NEW FIRE STATION
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD, PUTNAM VALLEY, NEW YORK

MITCHELL ASSOCIATES ARCHITECTS, PLLC

29 Thacher Park Road Voorheesville, New York 12186 Phone: (518) 765-4571 Fax: (518) 765-2950

CRAIG A. MALONEY, P.E. STRUCTURAL ENGINEER	GERARD ASSOCIATES CONSULTING ENGINEERS. P.C. PLUMBING, MECHANICAL & ELECTRICAL ENGINEER	INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEER
3 BENEDICT COURT BALLSTON SPA, NY 12020 PH: (518) 584-9944 FAX: (518) 584-9955	223 MAIN STREET GOSHEN, NY 10924 PH: (845 291-1272 FAX: (845) 291-1939	3 GARRETT PLACE CARMEL, NY 10512 PH: (845) 225-9690 FAX: (845) 225-9717

DRAWING SHEET INDEX

CIVIL:

OP-1	OVERALL PLAN
SP-1	LAYOUT AND LANDSCAPING PLAN
SP-2.1	GRADING, UTILITIES AND EROSION &
SP-2.2	GRADING, UTILITIES AND EROSION &
SP-3.1	EROSION & SEDIMENT CONTROL & PHASING PLAN
D-1	SITE DETAILS
D-2	SITE DETAILS
D-3	SITE DETAILS
HD-1	SSTS & WELL PLAN
HD-2	SSTS & WELL DETAILS
HD-3	SSTS & WELL DETAILS

STRUCTURAL:

S-100	FOUNDATION PLAN
S-101	FOUNDATION SECTION & DETAILS
S-102	SLAB DETAILS
S-103	MASONRY DETAILS
S-104	RETAINING WALL SECTIONS
S-105	CONCRETE & MASONRY PIER DETAILS
S-106	CONCRETE PIER DETALS
S-200	2nd FLOOR FRAMING PLAN
S-201	3rd FLOOR FRAMING PLAN
S-202	2nd FLOOR SECTIONS & DETAILS
S-203	FLOOR FRAMING SECTIONS & DETAILS
S-300	ROOF FRAMING PLAN
S-400	3rd FLOOR SECTIONS & DETAILS
S-500	3rd FLOOR SECTIONS & DETAILS
S-600	ROOF SECTIONS & DETAILS
S-700	ROOF SECTIONS & DETAILS
S-800	FRAMING SECTIONS & DETAILS
S-SCHED-1	SCHEDULES
S-SCHED-2	COLUMN SCHEDULE & WALL STUD KEY PLANS

ARCHITECTURAL:

A010	GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND WALL TYPES
A020	1st FLOOR CODE PLAN
A021	2nd FLOOR CODE PLAN
A022	3rd FLOOR CODE PLAN
A100	1st FLOOR PLAN
A100.1	1st FLOOR DIMENSION PLAN
A101	2nd FLOOR PLAN
A101.1	2nd FLOOR DIMENSION PLAN
A102	3rd FLOOR PLAN
A102.1	3rd FLOOR DIMENSION PLAN
A104	ROOF PLAN
A105	ROOF DETAILS
A106	ROOF PLAN DETAILS
A200	ELEVATIONS AND DETAILS
A201	ELEVATIONS AND DETAILS
A202	SITE SIGN ELEVATIONS & DETAILS
A204	EXTERIOR DETAILS
A300	BUILDING SECTIONS AND DETAILS
A301	BUILDING SECTIONS AND DETAILS
A302	BUILDING SECTIONS AND DETAILS
A303	BUILDING SECTIONS AND DETAILS
A304	BUILDING SECTIONS AND DETAILS
A305	BUILDING SECTIONS AND DETAILS
A310	MEZZANINE STAIR, LADDER EVOLUTION OPENING AND DETAILS
A311	MEZZANINE STAIR PLAN, LADDER EVOLUTION OPENING PLAN, SECTIONS AND DETAILS
A312	MAIN STAIR DETAILS
A313	MAIN STAIR SECTION DETAILS
A400	PLAN DETAILS & ELEVATIONS
A401	PLAN DETAILS & ELEVATIONS
A402	PLAN DETAILS & ELEVATIONS
A403	PLAN DETAILS & ELEVATIONS
A404	PLAN DETAILS & ELEVATIONS
A405	PLAN DETAILS & ELEVATIONS
A404	PLAN DETAILS & ELEVATIONS
A410	WALL SECTIONS
A411	WALL SECTIONS
A412	WALL SECTIONS AND DETAILS
A413	WALL SECTIONS AND DETAILS
A420	FLASHING/BASE OF WALL DETAILS
A430	MISC DETAILS
A431	MISC DETAILS
A432	O.H. DOOR CONTROL PANEL
A500	DOOR DETAILS
A501	WINDOW DETAILS
A502	DOOR SCHEDULE, DOOR FRAME TYPES DOOR TYPES AND WINDOW TYPES
A600	1st FLOOR REFLECTED CEILING PLAN
A601	2nd FLOOR REFLECTED CEILING PLAN
A602	3rd FLOOR REFLECTED CEILING PLAN
A700	1st FLOOR FF&E PLAN
A701	2nd FLOOR FF&E PLAN
A702	3rd FLOOR FF&E PLAN
A710	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS OF FF&E
A711	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS OF FF&E
A712	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS OF FF&E
A713	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS OF FF&E
A714	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS OF FF&E
A720	ENLARGER FLOOR PLANS & INTERIOR ELEVATIONS OF TOILET/JANITOR ROOMS
A730	CASEWORK ELEVATIONS AND DETAILS
A731	CASEWORK ELEVATIONS AND DETAILS
A800	1st FLOOR FINISH PLAN AND DETAILS
A801	2nd FLOOR FINISH PLAN, THRESHOLD & TRANSITION DETAILS
A802	3rd FLOOR FINISH PLAN AND DETAILS

MEP1	SITE PLAN

FIRE PROTECTION:

SPK100	1st FLOOR REFLECTED CEILING PLAN
SPK101	2nd FLOOR REFLECTED CEILING PLAN
SPK102	3rd FLOOR REFLECTED CEILING PLAN
SPK200	DETAILS
SPK201	DETAILS
SPK202	DETAILS
SPK203	DETAILS
SPK300	EQUIPMENT SCHEDULES

PLUMBING:

P100	1st FLOOR PLAN
P101	2nd FLOOR PLAN
P102	3rd FLOOR PLAN
P200	DETAILS
P201	DETAILS
P202	DETAILS
P203	DETAILS
P204	ISOMETRICS
P205	ISOMETRICS
P300	EQUIPMENT SCHEDULES
P301	EQUIPMENT SCHEDULES

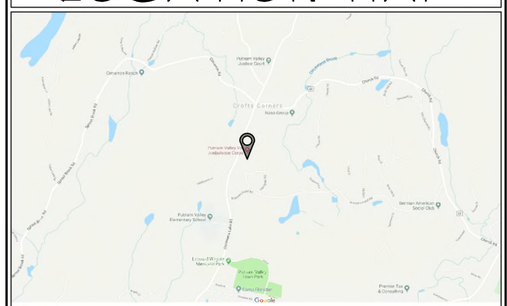
MECHANICAL:

M100	1st FLOOR REFLECTED CEILING PLAN
M101	2nd FLOOR REFLECTED CEILING PLAN
M102	3rd FLOOR REFLECTED CEILING PLAN
M103	1st FLOOR PLAN
M104	2nd FLOOR PLAN
M105	3rd FLOOR PLAN
M106	1st FLOOR PLAN - RADIANT TUBING
M200	DETAILS
M201	DETAILS
M202	DETAILS
M203	DETAILS
M204	DETAILS
M205	DETAILS
M206	DETAILS
M207	DETAILS
M300	EQUIPMENT SCHEDULES
M301	EQUIPMENT SCHEDULES
M302	EQUIPMENT SCHEDULES

ELECTRICAL:

E100	1st FLOOR PLAN
E101	2nd FLOOR PLAN
E102	3rd FLOOR PLAN
E300	DETAILS
E301	DETAILS
E302	DETAILS
E400	EQUIPMENT SCHEDULES
E401	EQUIPMENT SCHEDULES
E600	1st FLOOR REFLECTED CEILING PLAN
E601	2nd FLOOR REFLECTED CEILING PLAN
E602	3rd FLOOR REFLECTED CEILING PLAN

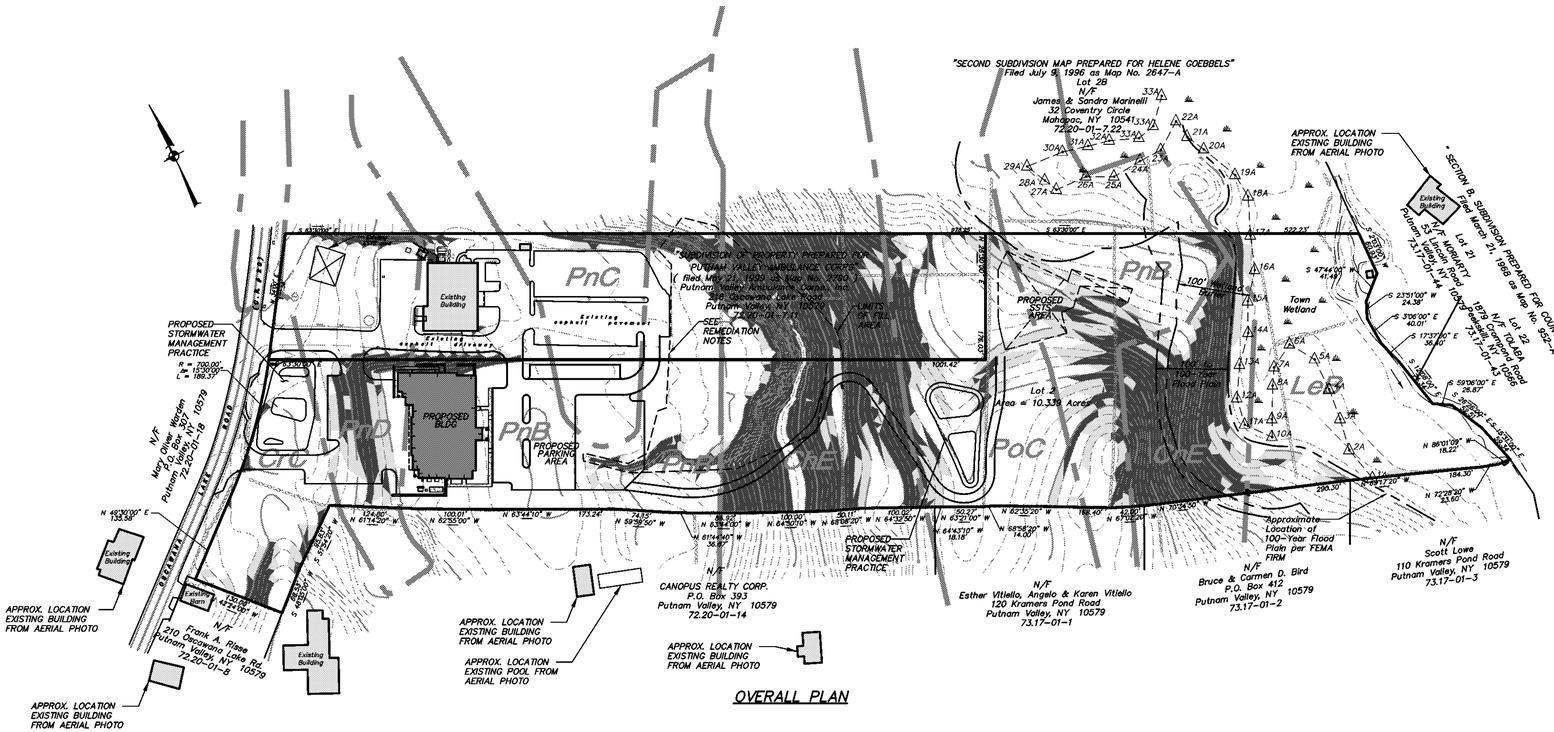
LOCATION MAP



DWG ID#: PV_Cover_Sheet.vwx

DWG DATE: 10/1/2020

SET NUMBER:



OVERALL PLAN

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

PUTNAM VALLEY GENERAL NOTES:

PUTNAM VALLEY NOTES:

1. All improvements must be completed as shown on the approved plans. Any deviation from the approved Plans must be approved in accordance with Section 165-16C(2)(c) or 165-21C(2)(c) of the Town Code.
2. At all times the owner/operator shall maintain on-site a copy of the Planning Board's approving Resolution and approved Plans signed by the Chairman of the Planning Board.
3. The Town of Putnam Valley employs the services of outside Planning, Engineering, Wetland, and other consultants as needed, in the review and inspection of Planning Board applications. The owner/operator is required and hereby agrees to reimburse the Town for the fees of said consultants. An escrow account will be established and maintained for the payment of such inspection fees. The account will be established prior to commencement of work and shall be maintained and supplemented throughout the duration of construction to a date no less than 60 days after issuance of an unrestricted Certificate of Occupancy. Should the account balance be exhausted, all work shall cease until the account balance is supplemented to allow for future inspections.
4. If coverage under GP-0-15-002 is required, at all times the owner/operator shall maintain on-site a copy of the General Permit (GP-0-20-001), Notice of Intent (NOI), NOI Acknowledgement letter, approved Stormwater Pollution Prevention Plan (SWPPP), MS4 SWPPP Acceptance Form, and weekly inspection reports prepared by a qualified inspector.
5. If at any time during construction the Code Enforcement Officer, Planning Board, or its agents determine that construction is not taking place in conformance with the approved Plans, a stop work order shall be issued by the Code Enforcement Officer and all work shall cease except such work approved by the Code Enforcement Officer and/or Town Engineer to correct erosion and sediment controls.
6. Unless otherwise authorized by the Town Engineer, all erosion and sediment control measures shall comply with Chapter 102, Stormwater Management and Erosion and Sediment Control, of the Town Code and the latest edition of the "New York State Stormwater Management Design Manual."
7. Unless otherwise authorized by the Town Engineer, all stormwater management practices shall be designed to comply with Chapter 102, Stormwater Management and Erosion and Sediment Control, of the Town Code and the latest edition of the "New York State Stormwater Management Design Manual."
8. Prior to the commencement of work, all trees to be removed shall be identified in the field by use of a bright colored surveyor's ribbon. If any trees designated on the tree plan for preservation are removed without Planning Board approval, a Stop Work Order shall be issued by the Building Inspector and all work shall cease until a tree replacement plan, prepared in conformance with Section 165-21.1 of the Zoning Code, has been approved by the Planning Board and implemented to the Planning Board's satisfaction.
9. Prior to commencement of work, the limit of disturbance line, as shown on the approved Plans shall be staked by a licensed land surveyor and delineated in the field by use of an orange construction fence or approved equal. The construction fence shall remain installed and properly maintained throughout the duration of construction.
10. Prior to commencement of work, the owner shall call the Underground Line Location Service. The owner is responsible to locate and protect all above and below ground utilities throughout all phases of construction.
11. Electrical power, telephone, cable television, and other such utilities shall be installed underground.
12. Construction activities shall only take place between the hours of 8:00 a.m. and 8:00p.m. on weekdays and 9:00 a.m and 7:00 p.m on weekends and holidays.
13. All construction activities shall comply with Chapter 82-5C, Noise, of the Town Code.
14. Unless authorized by the Planning Board, blasting is prohibited.
15. Approval of these Plans does not constitute acceptance of land areas designated for dedication to the Town of Putnam Valley, if any.
16. The continued validity of a Certificate of Occupancy shall be subject to continued conformance with these Plans and the Planning Board's approving Resolution.

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

AS-BUILT SURVEY NOTES:

1. Prior to the issuance of a Building Permit, the foundation location shall be survey located (by use of off-sets) by a NYS Licensed Land Surveyor and shall correspond to the approved Plans; correspondence from the surveyor shall be provided to the Building Department certifying the same.
2. Prior to framing, an as-built survey of the foundation shall be submitted to the Building Department. The survey shall be prepared by a NYS Licensed Land Surveyor, shall include elevations and property line setback dimensions to demonstrate compliance with these approved Plans, and shall be prepared to the satisfaction of the Town Engineer and Building Inspector.
3. The owner/operator shall submit an as-built survey of any stormwater management facility located on-site after final construction is completed. This survey must show the final design specification for all stormwater management facilities and must be certified by a NYS Professional Engineer.

SITE INSPECTION NOTES:

1. Prior to commencement of work, a pre-construction meeting shall take place with the applicant, contractor, Building Inspector, Town Engineer, Town Planner, and other relevant parties. At time of inspection, all erosion and sediment control measures and construction fencing shall be installed and all trees to be removed shall be marked with a bright colored surveyor's ribbon.
2. All improvements are subject to inspection by the Town and its agents without notification during the approval and construction process.
3. The Town of Putnam Valley Stormwater Management Officer may require such inspections as necessary to determine compliance with Chapter 102, Stormwater Management and Erosion and Sediment Control, and may either approve the portion of the work completed or notify the owner/operator wherein the work fails to comply with the requirements of Chapter 102 and the approved SWPPP. To obtain inspections, the owner/operator shall notify the Town of Putnam Valley enforcement official at least 48 hours before any of the following:
   - Start of construction.
   - Installation of sediment and erosion control measures.
   - Completion of site clearing.
   - Completion of rough grading.
   - Completion of final grading.
   - Close of construction season.
   - Completion of final landscaping.
   - Successful establishment of landscaping in public areas.
4. If coverage under GP-0-20-001 is required, the owner/operator shall retain the services of a qualified inspector and the qualified inspector shall conduct a site inspection at least once every seven (7) calendar days. Inspection reports shall be provided to the Planning Board and Building Department on a weekly basis and a copy of each report shall be kept on-site.
5. Prior to the issuance of a Certificate of Occupancy, a final site inspection shall be conducted with the property owner/applicant, contractor, Building Department, Town Engineer, Town Planner and other relevant parties. A Certificate of Occupancy shall not issue unless the Code Enforcement Officer has first received a written report from the Town Engineer, Town Planner and Town Wetland Inspector, as applicable, stating that all land development activities meet their satisfaction and that the site has been designed in accordance with the approved Plans.

Parking Requirements

Fire Department	Ambulance Corps
1 Parking Space Per 3 Seats Assembly Hall	1 Parking Space Per 3 Seats Assembly Hall
Total Required (160 Seat Capacity = 54 Spaces	Total Required (155 Seat Capacity = 52 Spaces
Total Provided = 104 Spaces	Total Provided = 65 spaces

PUTNAM VALLEY SITE SPECIFIC NOTES:

1. The gross site area equals 10.3 acres for TM# 72.20-01-7.12 and 4.0 acres for TM# 72.20-01-7.11.
2. Total site disturbance equals 5.9 ± acres.
3. According to the Tax Assessor, the subject site consists of the following tax parcel identification numbers: 72.20-01-7.11 and 72.20-01-7.12.
4. Survey data shown hereon is taken from Boundary & Topography Map of Property prepared by Baxter Land Surveying, P.C., Mahopac, New York, dated November 5, 2007, last revised June 29, 2016.
5. Topographic data shown hereon is taken from Boundary & Topography Map of Property prepared by Baxter Land Surveying, P.C., Mahopac, New York, dated November 5, 2007, last revised June 29, 2016 with supplementary data from Partial Topographic Survey Showing Filled Area prepared by Baxter Land Surveying P.C. dated May 9, 2017.
6. Soil boundaries shown hereon are taken from USGS SCS Soils Survey.
7. The subject site is located in the R-2 Zoning District.
8. The subject site is located in the Putnam Valley School District.
9. The subject site is located in the Putnam Valley Ground & Surface Water Protection, Hillside Management, and Wetlands & Watercourse Overlay Districts.
10. The subject site is located in the Peekskill Hollow watershed.

Putnam Valley Ambulance Corps TM # 72.20-01-7.11 R-2 Zone Requirements:

	Required/Permitted:	Provided:
Min. Lot Area	2 acres	4.0 acres ±
Min. Building Area	30,000 s.f.	
Lot Area		174,246 s.f.
Less Slopes >20%		(52,100 s.f.)
Building Area		122,146 s.f.
Min. Road/Lot Frontage	200'	177' ± *
Min. Open Area	75%	
Lot Area		174,246 s.f.
Less Building Footprint		(7,059 s.f.)
Paved Areas		(46,124 s.f.)
Open Area		121,063 s.f.
Open Area/Lot Area x 100 (%)		69.5% *
Max. Height of Structure	35'	< 35'
Min. Yard Setbacks:*		
Front:	50'	202' ±
Side:	40'	40.3' ±
Rear:	50'	709' ±

* Variance granted by Putnam Valley Zoning Board of Appeals on July 30, 2020, including walls, generator, signs, mechanical equipment and shed in yard setbacks. Variance also granted for sign size and LED sign display.

Remediation Area Notes:

1. On January 11, 2019 the Putnam Valley Volunteer Fire Department (PVFD) entered into an Order on Consent with the New York Stated Department of Conservation (Case No. R3-2018-1105-196) for importation and placement of contaminated fill over the PVFD and Ambulance Corp. properties in 2015 and 2016. The Order requires the PVFD to provide site remediation of the fill area in accordance with an approved Site Remediation Plan (SRP). The SRP was approved on July 10, 2019 and stipulates construction of a clean soil cap and slope stabilization measures over the fill area in order to provide protection of human health and the environment.
2. Following completion of the remedial action the PVFD will be required to provide routine maintenance of the fill area cap and surrounding slope. Maintenance may include mowing, repair to surface erosion, etc. The capped area will remain undeveloped and the construction of any buildings will not be permitted within the capped area.

GENERAL NOTES FOR ACCESSIBLE ROUTES ON THE SITE:

1. Accessible routes on the site include marked accessible parking spaces and access aisles, sidewalk curb ramps, walkways and ramps.
2. Marked accessible parking spaces and access aisles shall have surface slopes not steeper than 1:50. (2%)
3. Sidewalk curb ramps shall comply with the following items as applicable:
   a. Walking surfaces of sidewalk curb ramps shall be stable, firm and slip resistant.
   b. The running slope shall not exceed 8.0%.
   c. The cross slope shall not exceed 1:50 (2%).
   d. Landings and blended transitions shall be constructed to prevent the accumulation of water.
   e. Where provided, side flares for curb ramps shall not be steeper than 1:10 (10%).
   f. Curb ramps at marked crosswalks shall be wholly contained within the markings, excluding any flared sides.
   g. Landings shall be provided at the top of curb ramps. the clear length of the landing shall be 36 inches minimum, the clear width of the landing shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.
   h. Where detectable warnings are provided on curb ramps, they shall be 24 inches minimum in depth in the direction of travel, shall extend the full width of the curb ramp or flush surface, and be located so that the edge nearest the curb line is 6 inches minimum and 8 inches maximum from the curb line.
   i. Refer to sidewalk curb ramp details for additional information.
4. Walkways along an accessible route shall comply with the following items as applicable:
   a. Walking surfaces shall be stable, firm and slip resistant.
   b. Vertical changes in level along walking surface shall not exceed 1/4". Changes in level greater than 1/4" in height and not more than 1/2" shall be beveled with a slope not steeper than 1:2.
   c. The running slope of the walking surfaces shall not be steeper than 1:20 (5%).
   d. The cross slope of a walking surface shall not be steeper than 1:50 (2%).
   e. The clear width of an accessible route shall be 36" minimum.
   f. An accessible route with a clear width less than 60 inches shall provide passing spaces at intervals of 200 feet maximum. passing spaces shall be 60 inch minimum by 60 inch minimum.
5. Ramps along an accessible route shall comply with the following items:
   a. Ramp runs shall have a running slope greater than 1:20 (5%) and not steeper than 8.0%.
   b. The cross slope of ramp runs shall not exceed 1:50 (2%).
   c. Walking surfaces of ramp runs and associated landings shall be stable, firm and slip resistant.
   d. The clear width of a ramp run shall be 36 inches minimum or as shown. handrails and handrail supports that are provided on the ramp run shall not project into the required clear width of the ramp run or associated landing.
   e. The maximum rise for any ramp is 2'-6".
   f. The maximum run for any ramp is 30'-0".
   g. Ramps shall have landings at the bottom and top of each ramp run. landings shall have a slope not to exceed 1:50 (2%) and shall have a clear length and width of 60" minimum.
   h. Adjacent finished grades along sides of ramp shall not have a vertical dropoff of 1/2" within 10" of the edge of the concrete.
   i. Refer to concrete handicap ramp detail for additional information.

Putnam Valley Fire Station #1 TM # 72.20-01-7.12 R-2 Zone Requirements:

	Required/Permitted:	Provided:
Min. Lot Area	2 acres	10.3 acres ±
Min. Building Area	30,000 s.f.	
Lot Area		450,300 s.f.
Less Wetlands/Watercourses		(60,510 s.f.)
Slopes >20%		(105,900 s.f.)
Building Area		283,890 s.f.
Min. Road/Lot Frontage	200'	325' ±
Min. Open Area	75%	
Lot Area		450,300 s.f.
Less Building Footprint		(13,800 s.f.)
Paved Areas		(61,160 s.f.)
Open Area		375,340 s.f.
Open Area/Lot Area x 100 (%)		83%
Max. Height of Structure	35'	34'-2"
MAX Height of Cupola	15% x 35' = 5'-3"	7'-3"*
Min. Yard Setbacks:*		
Front:	50'	182' ±
Side:	40'	18' ±*
Rear:	50'	1246' ±

* Variance granted by Putnam Valley Zoning Board of Appeals on July 30, 2020, including walls, generator, signs, mechanical equipment and shed in yard setbacks. Variance also granted for sign size and LED sign display.

PLANNING BOARD APPROVAL

Approved by the Planning Board of the Town of Putnam Valley, Putnam County, N.Y. by resolution dated _____

Any change, erasure, modification or revision to this plan, as approved, shall void this approval.

Signed this _____ day of _____ 20 ___

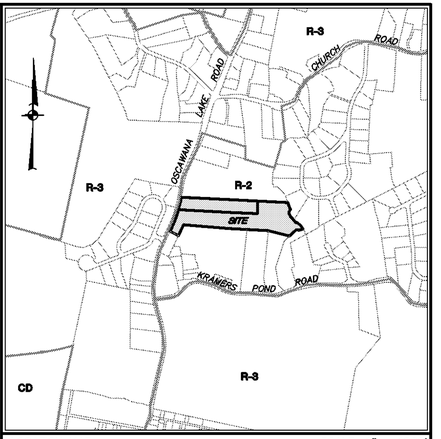
_____
Planning Board Chairman

OWNER'S CERTIFICATION

The undersigned owner of the property shown hereon is familiar with this drawing(s), its contents, and its legends and hereby approves the same.

_____ Date

Putnam Valley Volunteer Fire Department Inc.
Oscawana Lake Road, Putnam Valley, NY 10579



LOCATION MAP SCALE: 1" = 1000'

Putnam Valley Fire Station #1:

Site Data:

Zone:	R-2
Total Acreage:	10.3 Acres
Use:	Fire Department
Tax Map No.:	72.20-01-7.12

Record Owner/Applicant:

Putnam Valley Volunteer Fire Department Inc.
Oscawana Lake Road
Putnam Valley, NY 10579

Putnam Valley Ambulance Corps:

Site Data:

Zone:	R-2
Total Acreage:	4.0 Acres
Use:	Ambulance Corps
Tax Map No.:	72.20-01-7.11

Record Owner/Applicant:

Putnam Valley Volunteer Ambulance Corps Inc.
218 Oscawana Lake Road
Putnam Valley, NY 10579

Slopes Legend:

- 0 – 15%
- 15 – 20%
- > 20%

SOILS LEGEND

SOILS	DESCRIPTION	HYDROLOGICAL GROUP
CrC	Charlton-Chatfield complex, rolling, very rocky	B
ChE	Charlton Loam, 25% to 35% Slopes	B
PnB	Paxton fine sandy loam, 2% to 8% slopes	C
PnC	Paxton fine sandy loam, 8% to 15% slopes	C
PnD	Paxton fine sandy loam, 15% to 25% slopes	C
PoC	Paxton fine sandy loam, 8% to 15% slopes, Very Stony	C
LeB	Leicester Loam, 3% to 8%, Very Stony	C

Note: Soils information shown is based on interpretation of the USDA SCS Soils Survey.

NO.	DATE	REVISION	BY
13	1-27-21	REVISED PER PCDHF COMMENTS	MEU
12	12-7-20	REVISED PER TOWN & PCDHF COMMENTS	JWM
11	9-16-20	REVISED FOR PCDHF SUBMISSION	JWM
10	8-13-20	ISSUED FOR BID	JWM
9	2-18-20	REVISED PER TOWN COMMENTS	GM
8	1-21-20	REVISED PER TOWN COMMENTS	GM
7	1-8-20	REVISED FOR ZBA SUBMISSION	GM
6	11-6-19	REVISED FOR ZBA SUBMISSION	GM
5	9-13-19	REVISED PER TOWN COMMENTS	MEU
4	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
3	02-24-17	REVISED FOR COORDINATED REVIEW	SJC
2	11-30-16	REVISED FOR TEAM REVIEW	MEU
1	1-25-10	GENERAL REVISIONS	JLK

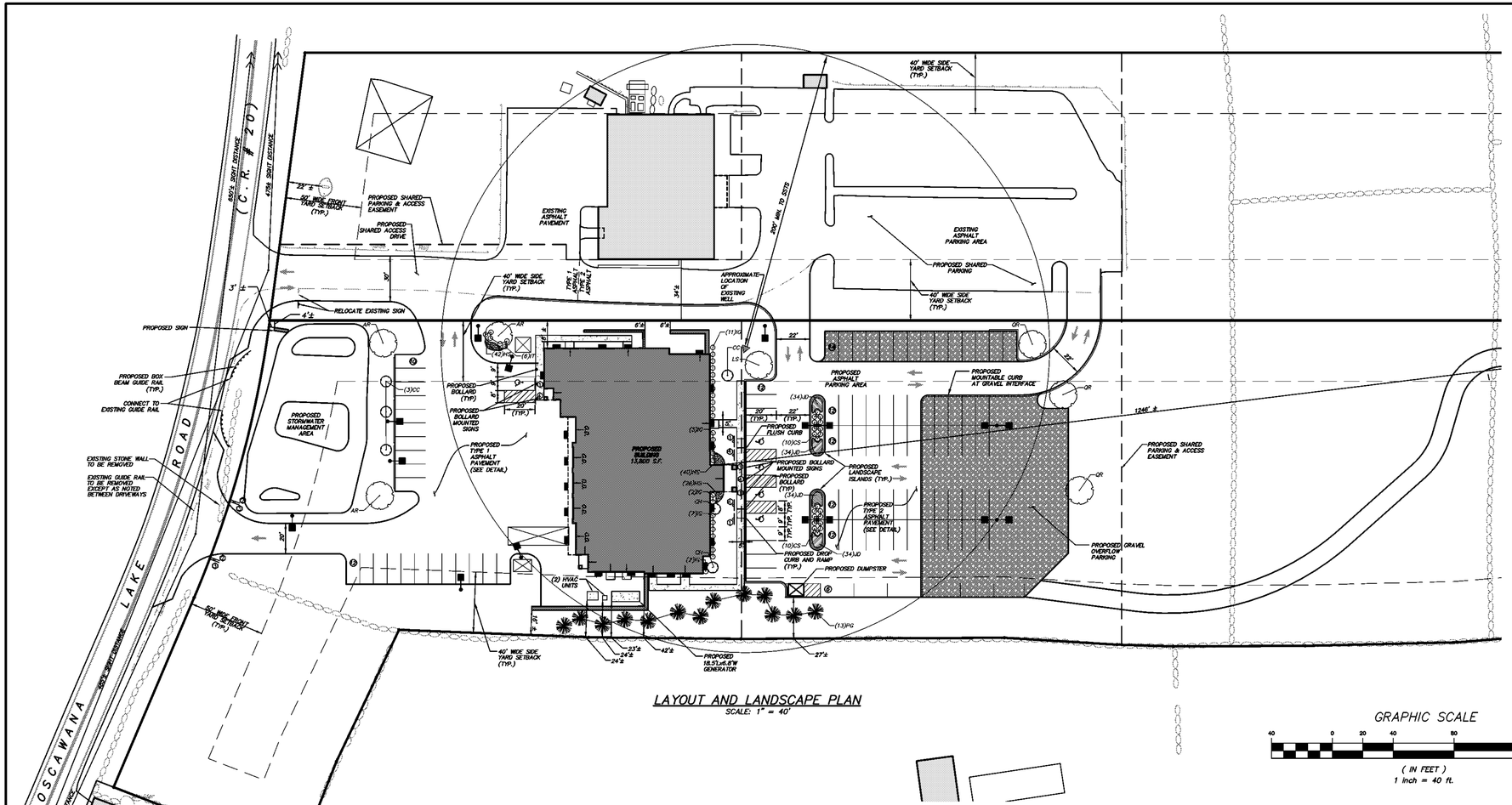
INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT:
PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS
OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

DRAWING:
OVERALL PLAN

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO.	SHEET
DATE	11-20-09	DRAWN BY	E.J.K.	OP-1	1 / 11
SCALE	AS SHOWN	CHECKED BY	E.M.S.		

Z:\09105\00100\OP-1.dwg, 1/27/2021 10:14:47 AM, number 11



LAYOUT AND LANDSCAPE PLAN
SCALE: 1" = 40'

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

SCHEMATIC PLANT LIST

QUANTITY	SYMBOL	BOTANICAL/COMMON NAME	SIZE	ROOT
		EVERGREEN TREES		
13	PG	Picea glauca / White Spruce	6' – 8' HT.	B & B
		SHADE TREES		
3	AR	Acer rubrum 'October Glory' / October Glory Red Maple	2–2 1/2" CAL.	B & B
1	LS	Liquidambar styraciflua / Sweetgum	2–2 1/2" CAL.	B & B
3	QR	Quercus rubra / Northern Red Oak	2–2 1/2" CAL.	B & B
		FLOWERING/SPECIMEN TREES		
4	CC	Cercis canadensis / Eastern Redbud	6' – 8' HT.	B & B
2	CM	Crataegus crus–galli / Cockspur Hawthorn	6' – 8' HT.	B & B
		SHRUBS & GROUND COVERS		
20	CS	Cornus sericea (stolonifera) / Red–osier Dogwood	2' – 3' HT.	#3 CONT.
108	HS	Hemerocallis "Stella D'Oro" / Miniature Daylilies	#1 CONT.	CONT.
27	IG	Ilex glabra compacta / Compact Inkberry	2' – 3' HT.	#5 CONT.
6	IT	Itea virginica / Henry's Garnet Itea	18"–24" HT.	#3 CONT.
136	JD	Juniperus davurica 'Parsoni' / Parson's Juniper	15"–18" SPR.	#2 CONT.

LUMINAIRE SCHEDULE

SYMBOL	CAT. NO.	DESCRIPTION	LAMP	LUMENS	WATTS	MOUNTING/HT	QTY
EX–A	LUMCA–CPL0427–18–LED07–42–40K–L3–47–120–MA–CF51	WALL MOUNTED LIGHT FIXTURE OVER GARAGE DOOR	LED	3100	42	WALL MOUNT 16'–0"	5
EX–B	BROWNLEE–7047–C7LED–40k	EXTERIOR WALL MOUNTED LIGHT FIXTURE	LED	1829	17	WALL MOUNT 8'–4"	5
EX–C	BROWNLEE–7047–C24LED–40k	EXTERIOR WALL MOUNTED LIGHT FIXTURE	LED	2558	24	WALL MOUNT 8'–4"	18
EX–D	WILLIAMS–L60–L30C/835–CS–M–DRV–120	6" ROUND RECESSED DOWNLIGHT	LED	6400	52	CEILING RECESSED	6
	DECO–D826–LED–320–40–UNV–LP–55–LYM–BL	POLE MOUNTED FLOOD LIGHT W/ YOKE MOUNT	LED	38536	320	25'	2
	LUMCA–OL30–36LED07–40K–L3–120	POLE MOUNTED PARKING LOT FIXTURE	LED	8400	80	*25' IN FRONT YARD *20' IN REAR YARD	5
	LUMCA–OL30–36LED07–40K–L3–120	POLE MOUNTED PARKING LOT FIXTURE	LED	8400	80	*25' IN FRONT YARD *20' IN REAR YARD	4

GENERAL PLANTING NOTES:

1. All proposed planting beds to receive a 12" min. depth of topsoil. Soil amendments and fertilizer application rates shall be determined based on specific testing of topsoil material.
2. Any new soils added will be amended as required by results of soil testing and placed using a method that will not cause compaction.
3. All plant material to be nursery grown.
4. Plants shall conform with ANSI Z60.1 American Standard for Nursery Stock in all ways including dimensions.
5. Plant material shall be taken from healthy nursery stock.
6. All plants shall be grown under climate conditions similar to those in the locality of the project.
7. Plants shall be planted in all locations designed on the plan or as staked in the field by the Landscape Architect.
8. The location and layout of landscape plants shown on the site plan shall take precedence in any discrepancies between the quantities of plants shown on the plans and the quantity of plants in the Plant List.
9. Provide a 3" layer of shredded bark mulch (or as specified) over entire watering saucer at all tree pits or over entire planting bed. Do not place mulch within 3" of tree or shrub trunks.
10. All landscape plantings shall be maintained in a healthy condition at all times. Any dead or diseased plants shall immediately be replaced "in kind" by the contractor (during warranty period) or project owner.

GENERAL SITE SEEDING NOTES:

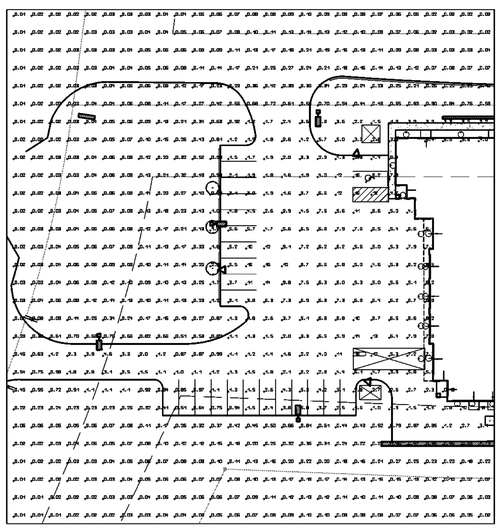
1. All proposed seeded areas to receive 4" min. depth of topsoil. Soil amendments and fertilizer application rates shall be determined based on specific testing of topsoil material.
2. Upon final grading and placement of topsoil and any required soil amendments, areas to receive permanent vegetation cover in combination with suitable mulch as follows:
   - select seed mixture per drawings and seeding notes.
   - fertilizer applied at the manufacturer's recommended rate using Lesco 10–0–18 (no phosphorous) fertilizer or equivalent.
   - mulch: salt hay or small grain straw applied at a rate of 90 lbs./1000 s.f. or 2 tons/acre, to be applied and anchored according to New York State Standards and Specifications for Erosion and Sediment Control, August 2005.
   - if the season prevents the establishment of a permanent vegetation cover, the disturbed areas will be mulched with straw or equivalent.
3. The seed mixes as specified on these drawings are as follows:
   A. Seed Mix for lawn areas at a rate of 100 lbs. per acre:

Kentucky Bluegrass	20%
Creeping Red Fescue	40%
Perennial Ryegrass	20%
Annual Ryegrass	20%

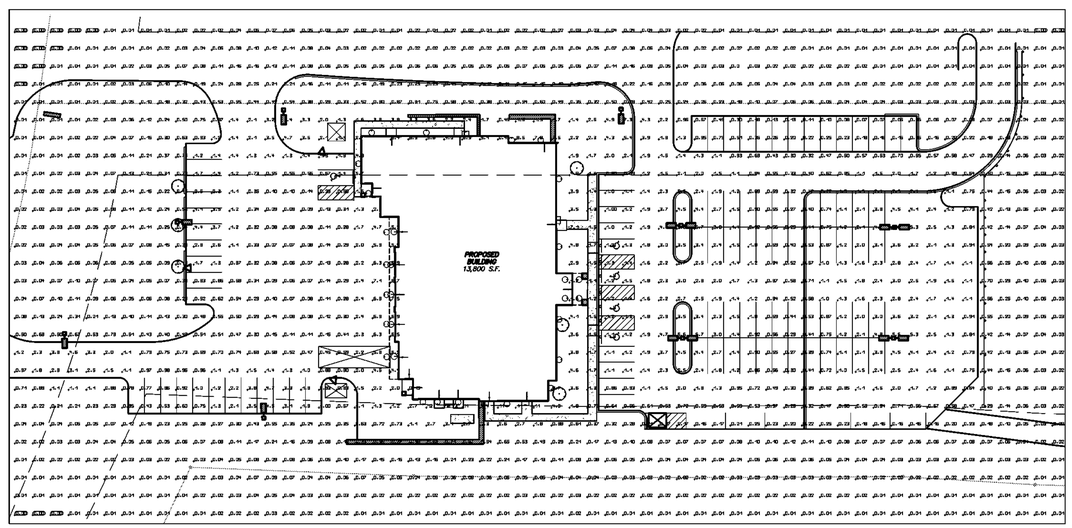
   B. Seed Mix for meadow areas at a rate of 23 lbs. per acre: New England Wildflower Mix from New England Wetland Plants, Inc, of Amherst, MA.

LEGEND

- Property Line
- W–44 / W–43 — Existing Wetland Limit Line W/ Flags
- Existing Watercourse
- Wetland Control Line
- Existing Stonewall
- Existing Guide Rail
- lamppost — Existing Pole Mounted Site Lighting
- Proposed Retaining Wall
- Proposed Wood Guide Rail
- Proposed Concrete Curb
- Proposed Door Location
- O.D. — Proposed Overhead Door Location
- Proposed Loading Space
- Proposed Landscaping
- Proposed Pole Mounted Site Lighting
- Proposed Sign



PHOTOMETRIC PLAN – FLOOD LIGHTS ON
SCALE: 1" = 40'



PHOTOMETRIC PLAN – FLOOD LIGHTS OFF
SCALE: 1" = 40'

Lighting Note:

1. Lighting information shown for reference only. See electrical plans for installation details.
2. Parking Lot Lights shall be operated by photo cell and motion sensor.

General Notes:

1. Property line, topography, existing conditions and wetland flag locations shown hereon are based upon Boundary & Topography Map of Property prepared by Baxter Land Surveying, P.C., Mahopac, New York, dated November 5, 2007, last revised June 29, 2016. Wetlands were delineated by Steve Marino of Tim Miller Associates on May 15, 2016.
2. Existing tree locations shown hereon are based upon Tree Survey prepared by Baxter Land Surveying, P.C., Mahopac, New York, dated November 4, 2009.

NO.	DATE	REVISION	BY
11	1–27–21	REVISED PER PCDHF COMMENTS	MEU
10	12–7–20	REVISED PER TOWN & PCDHF COMMENTS	JWM
9	8–13–20	ISSUED FOR BID	JWM
8	2–18–20	REVISED PER TOWN COMMENTS	GM
7	1–21–20	REVISED PER TOWN COMMENTS	GM
6	1–8–20	REVISED FOR ZBA SUBMISSION	GM
5	11–6–19	REVISED FOR ZBA SUBMISSION	GM
4	9–13–19	REVISED PER TOWN COMMENTS	MEU
3	07–29–19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
2	02–24–17	REVISED FOR COORDINATED REVIEW	SJC
1	11–30–16	REVISED FOR TEAM REVIEW	MEU

INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225–9690
(845) 225–9717 fax
www.insite–eng.com

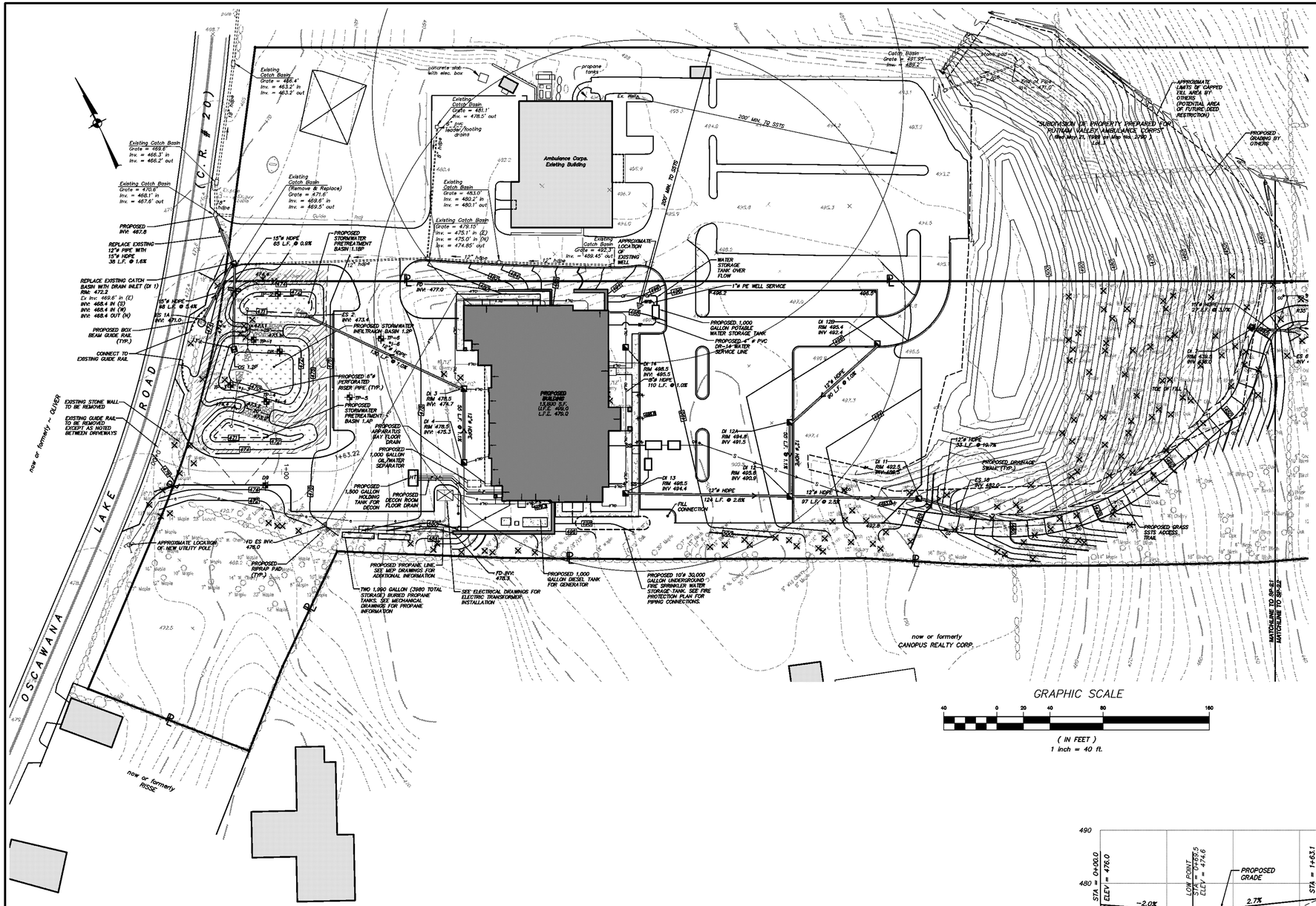
PROJECT:
PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS
OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

DRAWING:
LAYOUT AND LANDSCAPING PLAN

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO.	SHEET
DATE	11–20–09	DRAWN BY	E.J.K.	SP–1	2 / 11
SCALE	1" = 40'	CHECKED BY	E.M.S.		

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

Z:\09105\100\02 SP-1.dwg, 1/27/2021 10:12:28 AM, matter.11



LEGEND

- Existing Property Line
- Existing Wetland Limit Line w/ Flag (W-44 / W-43)
- Existing Watercourse
- Wetland Control Line
- Existing Stonewall
- Existing Guide Rail
- Existing 10' Contour (470)
- Existing 2' Contour (474)
- Existing Spot Grade (478.5)
- Existing Catch Basin
- Existing Pipe (sizes shown) (12" hdpe)
- Existing Utility Pole
- Existing Tree (10" Maple)
- Existing Tree to be Removed (10" Maple)
- Proposed 10' Contour (470)
- Proposed 2' Contour (474)
- Proposed Retaining Wall
- Proposed Wood Guide Rail
- Proposed Inlet Protection
- Proposed Drainage Pipe
- Proposed End Section
- Proposed Roof Drain (RD)
- Proposed Drainage Swale
- Proposed Sewer Service (S)
- Proposed Buried Electrical Line (e)

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

STORMWATER MANAGEMENT PRACTICE TESTING RESULTS

DEEP TEST TP1 THROUGH TP6 WERE PERFORMED ON SEPTEMBER 19, 2019 AND OBSERVED BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE.

NOTE: NO GROUNDWATER, MOTTLING, OR ROCK ENCOUNTERED UNLESS NOTED.

TP-1: 0-8" Topsoil
8-64" Light Brown/Tan Silty Sand
(Rock @ 64")

TP-2: 0-8" Topsoil
8-30" Light Brown Silty Sand
(Rock @ 30")

TP-3: 0-12" Topsoil
12-72"+ Light Brown Silty Sand

TP-4: 0-8" Topsoil
8-36" Tan Silty Sand
36-70"+ Brown Silty Sand

TP-5: 0-8" Topsoil
8-70" Light Brown Silty Sand
(Rock @ 70")

TP-6: 0-8" Topsoil
8-112" Light Brown/Tan Silty Sand
(Rock @ 112")

INFILTRATION TESTS WERE PERFORMED ON SEPTEMBER 26, 2019 BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE.

TP-3: 20 in/hr

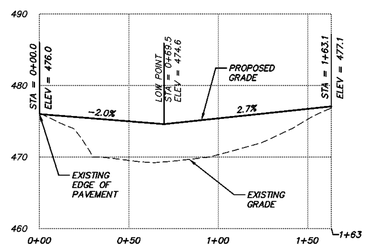
TP-4: 23 in/hr

TP-6: 22 in/hr

FOR EXISTING TREES & TREES TO BE REMOVED, SEE TABLE ON DRAWING SP-2.2

FOR GENERAL NOTES SEE DRAWING SP-1

NO.	DATE	REVISION	BY
13	1-27-21	REVISED PER PCDHF COMMENTS	MEU
12	12-7-20	REVISED PER TOWN & PCDHF COMMENTS	JWM
11	9-16-20	REVISED FOR PCDHF SUBMISSION	JWM
10	8-13-20	ISSUED FOR BID	JWM
9	2-18-20	REVISED PER TOWN COMMENTS	GM
8	1-21-20	REVISED PER TOWN COMMENTS	GM
7	1-8-20	REVISED FOR ZBA SUBMISSION	GM
6	11-6-19	REVISED FOR ZBA SUBMISSION	GM
5	9-13-19	REVISED PER TOWN COMMENTS	MEU
4	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
3	12-4-17	GENERAL REVISION	MEU
2	02-24-17	REVISED FOR COORDINATED REVIEW	SJC
1	11-30-16	REVISED FOR TEAM REVIEW	MEU



PROPOSED DRIVEWAY PROFILE

SCALE: HORIZ. 1" = 40'
VER. 1" = 10'

PERMANENT STORMWATER FACILITIES MAINTENANCE SCHEDULE

PRACTICE/FACILITY	MONTHLY	AFTER MAJOR STORM EVENTS	BI-ANNUALLY	YEARLY	EVERY 5 to 10 YEARS
GRASS SWALES	-	-	Inspect & clean Mow & remove debris & litter. Revegetate as needed.	-	Inspect for & remove accumulated sediment
SUBSURFACE STORMWATER COLLECTION SYSTEMS	-	-	Inspect & clean	Inspect, clean, repair and/or replace structures. Remove debris.	-
STORMWATER BASINS	Inspect first few months after construction for eroding soils & slumpage & repair immediately	Inspect orifices, inlets & outlets for clogging, eroding soils on the basin berm & embankments, & sources of erosion; & stabilize and/or repair immediately.	Mow berms and exterior embankments Remove debris & litter from basins & outlet structures.	-	Inspect for & remove accumulated sediment

Note: The party responsible for implementation of the maintenance schedule during and after construction is:

Putnam Valley Volunteer Fire Department Inc.
Oscawana Lake Road
Putnam Valley, NY 10579
and/or the current owners of the subject property.

SEED MIXES

SEED MIX # 1 - Seed Mix for lawn areas, mow strip along roads and all other disturbed areas not receiving other forms of permanent stabilization or seed mix at a rate of 100 lbs. per acre:

Kentucky Bluegrass	20%
Creeping Red Fescue	40%
Perennial Ryegrass	20%
Annual Ryegrass	20%

SEED MIX # 2 - For seeding cut and fill slopes along road and around parking area, for berms, backslopes and interior slopes of stormwater basins, to and all other disturbed areas not receiving other forms of permanent stabilization or seed mix, at a rate of 60 lbs/acre: Native Steep Slopes w/ Annual Rye Grass Seed Mix (ERNMX-181) from Ernst Conservation Seeds of Meadville, PA.

SEED MIX #3 - For bottoms of stormwater basins and for interior slopes and aquatic bench of pocket pond stormwater managment areas, at a rate of 30 lbs/acre: Retention Basin Floor Mix - Low Maintenance (ERNMX-126) from Ernst Conservation Seeds of Meadville, PA.

PUTNAM COUNTY HIGHWAY AND FACILITIES NOTE:

1. Prior to the start of any paving, the Putnam County Department of High and Facilities is to be notified and the sub-base is to be inspected to assure that the item 4 is properly graded.

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT:
PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS
OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

DRAWING:
GRADING & UTILITIES PLAN

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO.	SHEET
DATE	11-20-09	DRAWN BY	E.J.K.	SP-2.1	3 / 11
SCALE	1" = 40'	CHECKED BY	E.M.S.		

Z:\09105\100\03 SP-2.1 - 2.2.dwg, (27"X36") 10:16:48 AM, author: JJ

LEGEND

- Existing Property Line
- Existing Wetland Limit Line w/ Flag (W-44, W-43)
- Existing Watercourse
- Wetland Control Line
- Existing Stonewall
- Existing Guide Rail
- Existing 10' Contour (470)
- Existing 2' Contour (474)
- Existing Spot Grade (468.5)
- Existing Catch Basin
- Existing Pipe (12" hdpe (sizes shown))
- Existing Utility Pole
- Existing Tree (10" Maple)
- Existing Tree to be Removed (10" Maple)
- Proposed 10' Contour (470)
- Proposed 2' Contour (474)
- Proposed Retaining Wall
- Proposed Wood Guide Rail
- Proposed Inlet Protection
- Proposed Drainage Pipe
- Proposed End Section
- Proposed Roof Drain (RD)
- Proposed Drainage Swale
- Proposed Sewer Service (S)
- Proposed Buried Electrical Line (e)

STORMWATER MANAGEMENT PRACTICE TESTING RESULTS

DEEP TEST TP7 THROUGH TP11 WERE PERFORMED ON SEPTEMBER 25, 2019 AND OBSERVED BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE.

NOTE: NO GROUNDWATER, MOTTLING, OR ROCK ENCOUNTERED UNLESS NOTED.

TP-7: 0-10" Topsoil
10-72" Tan/Brown Silty Sand with Gravel and Cobbles
Rock @ 72"

TP-8: 0-9" Topsoil
9-76" Tan Brown Compacted Fine Sand and Silt with Gravel and Cobbles
Rock @ 76"

TP-9: 0-14" Topsoil
14-75" Tan Silty Sand with Gravel and Cobbles
75-124"+ Compact Tan Silty Sand with Gravel and Cobbles

TP-10: 0-15" Topsoil
15-53" Tan Silty Sand with Gravel and Cobbles
53-90" Compact Tan Silty Sand with Gravel and Cobbles

TP-11: 0-8" Topsoil
8-69" Brown Tan Silty Sand with Gravel and Cobbles
Rock @ 69"

INFILTRATION TESTS WERE PERFORMED ON SEPTEMBER 26, 2019 BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE.

I-7: 33 in/hr

I-9: 42 in/hr

I-11: 31 in/hr

REQUIRED POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICE COMPONENTS:

1. Pursuant to the NYSDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-20-001), all construction projects needing post-construction stormwater management practices shall prepare a SWPPP that also includes practices designed in conformance with the most current version of the technical standard, New York State Stormwater Management Design Manual ("Design Manual"). Where post-construction stormwater management practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of SWPPP components is provided in accordance with Part III.B.2a-g and III.B.3:
   a. Identification of all post-construction stormwater management practices to be constructed as part of the project; This plan, and details/notes shown hereon serve to satisfy this SWPPP requirement.
   b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice; This plan, and details/notes shown hereon serve to satisfy this SWPPP requirement.
   c. A Stormwater Modeling and Analysis Report including pre-development conditions, post-development conditions, the results of the stormwater modeling, a summary table demonstrating that each practice has been designed in conformance with the sizing criteria, identification of and justification for any deviations from the Design Manual, and identification of any design criteria that are not required. The required analysis is provided in the report titled Preliminary Stormwater Pollution Prevention Plan for Putnam Valley Fire Station #1.
   d. Soil testing results and locations. This SWPPP requirement is to be completed.
   e. Infiltration testing results. This SWPPP requirement is to be completed.
   f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice. The Permanent Stormwater Facilities Maintenance Schedule provided on these plans serves to satisfy this requirement.
2. Enhanced Phosphorus Removal Standards – Beginning on September 30, 2008, all construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the most current version of the technical standard, New York Stormwater Management Design Manual. Because this project is not located within any of the identified watersheds, this requirement is not applicable to this project.

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

TABLE OF EXISTING TREES & TREES TO BE REMOVED (TM# 72.20-01-7.12)

10" MAPLE	8" MAPLE	7" MAPLE	10" MAPLE	8" MAPLE	10" BIRCH	8" BIRCH	14" HICKORY	20" LOCUST	22" OAK
14" MAPLE	8" MAPLE	8" MAPLE	8"/8"/14" MAPLE	4"/8" MAPLE	16" BIRCH	16" BIRCH	12" HICKORY	20" LOCUST	12" OAK
14"/20"/24" MAPLE	12" MAPLE	8"/8" MAPLE	10" MAPLE	12" MAPLE	12" BIRCH	6" BIRCH	16" HICKORY	8" LOCUST	20" CHERRY
8"/14" MAPLE	16" MAPLE	7" MAPLE	6" MAPLE	20" MAPLE	6" MAPLE	10" BIRCH	16" BIRCH	7" HICKORY	24" LOCUST
18" MAPLE	12" MAPLE	15" MAPLE	7" MAPLE	14" MAPLE	12" BIRCH	16" BIRCH	8" HICKORY	16" LOCUST	6" CHERRY
14" MAPLE	8" MAPLE	8" MAPLE	10" MAPLE	6" MAPLE	14" BIRCH	8" BIRCH	8" HICKORY	18" LOCUST	14" CHERRY
14" MAPLE	8" MAPLE	8" MAPLE	14" MAPLE	10" MAPLE	12" BIRCH	12" BIRCH	8"/12" HICKORY	14" LOCUST	6" CHERRY
10" MAPLE	18" MAPLE	14" MAPLE	6" MAPLE	6" MAPLE	16" BIRCH	8" BIRCH	6" HICKORY	12"/16" LOCUST	10" CHERRY
16" MAPLE	14" MAPLE	16" MAPLE	4"-6" MAPLE	8" MAPLE	16"/18" MAPLE	16" BIRCH	7" BIRCH	6" HICKORY	18" LOCUST
8" MAPLE	8"/12" MAPLE	7" MAPLE	8"/8" MAPLE	18" MAPLE	8" BIRCH	10" BIRCH	7" HICKORY	28" LOCUST	16" CHERRY
7" MAPLE	6" MAPLE	8" MAPLE	8"/10" MAPLE	8"/14" MAPLE	16" BIRCH	10" BIRCH	8" HICKORY	18" LOCUST	8"/12" CHERRY
10" MAPLE	8" MAPLE	16" MAPLE	7"/7"/10" MAPLE	16" MAPLE	18" MAPLE	8" BIRCH	18" HICKORY	30" TULIP	8"/8"/8"/12" CHERRY
12" MAPLE	12" MAPLE	7" MAPLE	16" MAPLE	8"/10" MAPLE	14" BIRCH	10" BIRCH	14" HICKORY	26" TULIP	8"/8"/12" CHERRY
8" MAPLE	16" MAPLE	8" MAPLE	16" MAPLE	6" MAPLE-GUMP	6" MAPLE	6" BIRCH	10" BIRCH	16" HICKORY	10" MALUS
7" MAPLE	8" MAPLE	12" MAPLE	8"/8" MAPLE	10" MAPLE	8"/12" MAPLE	8" BIRCH	10" BIRCH	16" HICKORY	12" MAPLE
10" MAPLE	20" MAPLE	8" MAPLE	10" MAPLE	12" MAPLE	10" MAPLE	22" BIRCH	6" CEDAR	14" MAPLE	14" CHERRY
7" MAPLE	16" MAPLE	6" MAPLE	3"/8" MAPLE	12" MAPLE	8"/10"/12" MAPLE	16" BIRCH	10" BIRCH	6"/8" CEDAR	6" MAPLE
12" MAPLE	16" MAPLE	12" MAPLE	7" MAPLE	18" MAPLE	12" MAPLE	12" BIRCH	12" BIRCH	6" CEDAR	10" MAPLE
28" MAPLE	22" MAPLE	8" MAPLE	8" MAPLE	12" MAPLE	7" MAPLE	14" BIRCH	8" BIRCH	8" CEDAR	8" CEDAR
7" MAPLE	8" MAPLE	7" MAPLE	8"/7" MAPLE	10" MAPLE	10" MAPLE	16" BIRCH	8" BIRCH	8" CEDAR	12" MAPLE
7" MAPLE	8" MAPLE	12" MAPLE	6" MAPLE	8" MAPLE	16" MAPLE	16" BIRCH	6" BIRCH	7" CEDAR	8" BLACK GUM
8" MAPLE	16" MAPLE	16" MAPLE	10" MAPLE	10" MAPLE	15" MAPLE	18" BIRCH	8" BIRCH	7" CEDAR	22" BLACK GUM
8" MAPLE	18" MAPLE	8" MAPLE	10" MAPLE	14"/16" MAPLE	7" BIRCH	14" BIRCH	8" CEDAR	10" BLACK GUM	18" BLACK GUM
10" MAPLE	10" MAPLE	8" MAPLE	8" MAPLE	10" MAPLE	16" MAPLE	18" BIRCH	8" CEDAR	18" BLACK GUM	14" OAK
12" MAPLE	8" MAPLE	7" MAPLE	16" MAPLE	16" MAPLE	7" MAPLE	18" BIRCH	12" BIRCH	10" CEDAR	18" BLACK GUM
18" MAPLE	10"/8"/8" MAPLE	7"/12" MAPLE	10" MAPLE	7"/10" MAPLE	7"/8"/10"/14" MAPLE	6" BIRCH	12" BIRCH	6"/7" CEDAR	6" BLACK GUM
10" MAPLE	8" MAPLE	8"/10" MAPLE	10"/16" MAPLE	16" MAPLE	8" MAPLE	8" BIRCH	8" BIRCH	3"/7" CEDAR	6" BLACK GUM
6"-8" MAPLE-GUMP	8" MAPLE	8" MAPLE	8"/8" MAPLE	16" MAPLE	32" MAPLE	12" BIRCH	8" BIRCH	8" CEDAR	10"/10" BLACK GUM
12"/20"/20"/24" MAPLE	8" MAPLE	7" MAPLE	7"/8"/8" MAPLE	16" MAPLE	12" MAPLE	16" BIRCH	8" BIRCH	8" CEDAR	6" CHERRY
4"/12" MAPLE	16" MAPLE	8" MAPLE	7"/8"/8" MAPLE	6" MAPLE	7" MAPLE	18" BIRCH	6" HICKORY	4"/8" CEDAR	8" CHERRY
6" MAPLE	16" MAPLE	6" MAPLE	6"/8"/8" MAPLE	30" MAPLE	12" BIRCH	10" BIRCH	7" HICKORY	8" CEDAR	12" CHERRY
6" MAPLE	12" MAPLE	7" MAPLE	8" MAPLE	6" MAPLE	16" BIRCH	10" BIRCH	16" HICKORY	12" CEDAR	14" CHERRY
8" MAPLE	14" MAPLE	12"/15" MAPLE	10" MAPLE	8" MAPLE	14" BIRCH	16" BIRCH	16" HICKORY	6" BEECH	12" CHERRY
8" MAPLE	6" MAPLE	6" MAPLE	8" MAPLE	12" MAPLE	14" BIRCH	12" BIRCH	18" HICKORY	16"/18" ASH	16" CHERRY
8" MAPLE	8" MAPLE	12"/15" MAPLE	16" MAPLE	10" MAPLE	20" BIRCH	10" BIRCH	14" HICKORY	16"/18" ASH	6" CHERRY
10" MAPLE	6" MAPLE	8" MAPLE	8"/8"/8" MAPLE	10" MAPLE	18" BIRCH	16" BIRCH	16" HICKORY	8"/8"/10" ASH	14" CHERRY
8"/8" MAPLE	12" MAPLE	7"/7" MAPLE	16" MAPLE	8" MAPLE	16" BIRCH	8" BIRCH	8" HICKORY	7" ASH	16" CHERRY
18" MAPLE	7" MAPLE	8" MAPLE	7" MAPLE	10" MAPLE	6" BIRCH	8" BIRCH	16" HICKORY	7" ASH	10"/16" CHERRY
18" MAPLE	7" MAPLE	8" MAPLE	6"-8" MAPLE-GUMP	10" MAPLE	22" BIRCH	8" BIRCH	12" HICKORY	8" ASH	8" CHERRY
7"/8" MAPLE	7" MAPLE	6" MAPLE	10" MAPLE	8" MAPLE	6" BIRCH	6" BIRCH	12" HICKORY	8" ASH	6" CHERRY
6" MAPLE	8" MAPLE	8"/12" MAPLE	16" MAPLE	14" MAPLE	16" BIRCH	7" BIRCH	12" HICKORY	8" ASH	6" CHERRY

Removals for the remediation: 190
Removals in the Protected Zone: 28
Clear Cutting for the septic: 32
Other removals: 16
Total Removals: 266

FOR GENERAL NOTES SEE DRAWING SP-1

NO.	DATE	REVISION	BY
11	1-27-21	REVISED PER PCDHF COMMENTS	MEU
10	12-7-20	REVISED PER TOWN & PCDHF COMMENTS	JWM
9	8-13-20	ISSUED FOR BID	JWM
8	2-18-20	REVISED PER TOWN COMMENTS	GM
7	1-21-20	REVISED PER TOWN COMMENTS	GM
6	11-6-19	REVISED FOR ZBA SUBMISSION	GM
5	9-13-19	REVISED PER TOWN COMMENTS	MEU
4	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
3	12-4-17	GENERAL REVISION	MEU
2	02-24-17	REVISED FOR COORDINATED REVIEW	SJC
1	11-30-16	REVISED FOR TEAM REVIEW	MEU

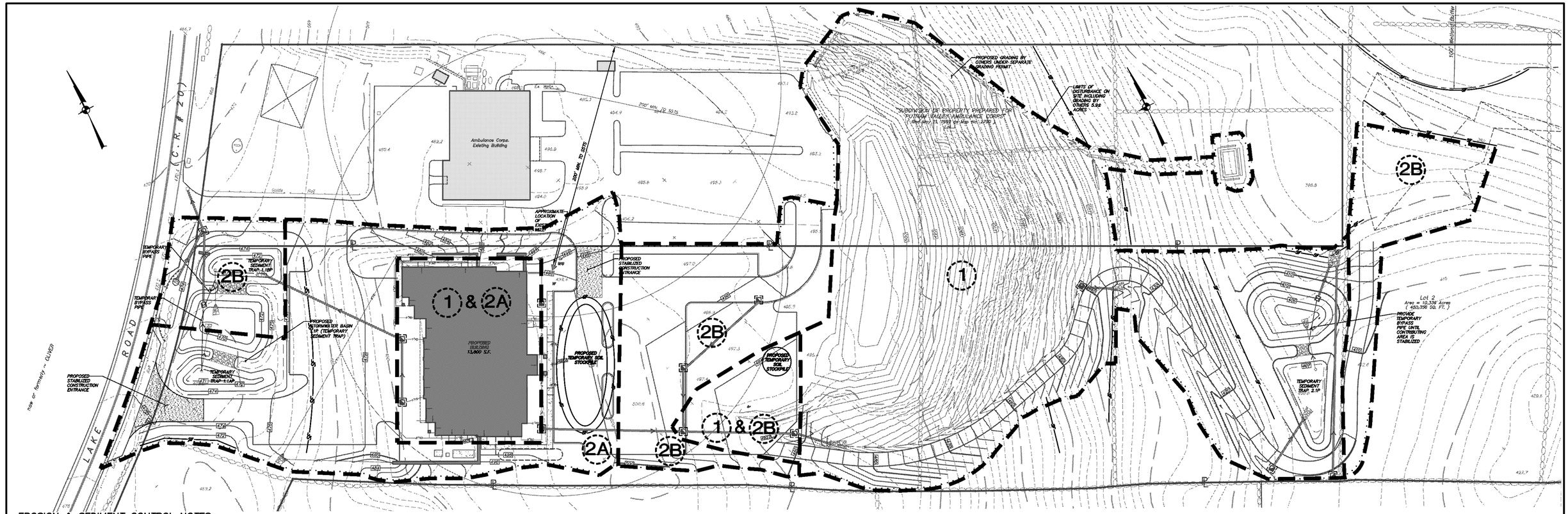
INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT:
PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS
OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

DRAWING:
GRADING & UTILITIES PLAN

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO.	SHEET
DATE	11-20-09	DRAWN BY	E.J.K.	SP-2.2	4 / 11
SCALE	1" = 40'	CHECKED BY	E.M.S.		

Z:\09105\00\03\SP-2.1 - 2.2.dwg, (27)ZOA1 10:17:23 AM, Author: 11



EROSION & SEDIMENT CONTROL NOTES:

1. The owner's field representative (O.F.R.) will be responsible for the implementation and maintenance of sediment and erosion control measures on this site prior to and during construction.
2. All construction activities involving the removal or disposition of soil are to be provided with appropriate protective measures to minimize erosion and contain sediment disposition within. Minimum soil erosion and sediment control measures shall be implemented as shown on the plans and shall be installed in accordance with "New York Standards and Specifications For Erosion and Sediment Control," latest edition.
3. Wherever feasible, natural vegetation should be retained and protected. Disturbance shall be minimized in the areas required to perform construction. No more than 5 acres of unprotected soil shall be exposed at any one time.
4. When land is exposed during development, the exposure shall be kept to the shortest practical period of time, but in no case more than 14 days after the construction activity in that portion of the site has ceased. Disturbance shall be minimized in the areas required to perform construction.
5. All construction vehicles shall be kept clear of the watercourses and wetland control areas outside the areas of proposed development. Silt fence and orange construction fence shall be installed in the areas where the grading is in close proximity of the watercourses or wetland control areas.
6. The stabilized construction entrances, silt fence, and orange construction fence shall be installed as shown on the plans prior to beginning any clearing, grubbing or earthwork.
7. All topsoil to be stripped from the area being developed shall be stockpiled and immediately seeded with Lolium perenne aristatum or Lolium perenne multiflorum for temporary stabilization. Lolium perenne aristatum shall be used for winter seeding and Lolium perenne multiflorum shall be used for spring and summer seeding.
8. Any graded areas not subject to further disturbance or construction traffic shall, within 10 days of final grading, receive permanent vegetation cover in combination with a suitable mulch. All seeded areas to receive a minimum 4" topsoil (from stockpile area) and be seeded and mulched as follows:
   - Seed mixture to be planted between March 21 and May 20, or between August 15 and October 15 or as directed by project representative at a rate of 50 pounds per acre in the following proportions:
     Kentucky Bluegrass 20%
     Creeping Red Fescue 40%
     Perennial Ryegrass 20%
     Annual Ryegrass 20%
   - Mulch: Salt hay or small grain straw applied at a rate of 90 lbs./1000 S.F. or 2 tons/acre, to be applied and anchored according to "New York Standards and Specification For Erosion and Sediment Control," latest edition.
9. Grass seed mix may be applied by either mechanical or hydroseeding methods. Hydroseeding shall be performed in accordance with the current edition of the "NYSDOT Standard Specification, Construction and Materials, Section 610-3.02, Method No. 1".
10. Cut or fill slopes 2H:1V or steeper shall be stabilized immediately after grading with Curlex I Single Net Erosion Control Blanket, or approved equal.
11. Paved roadways shall be kept clean at all times.
12. The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
13. All storm drainage outlets shall be stabilized, as required, before the discharge points become operational.
14. Stormwater from disturbed areas must be passed through erosion control barriers before discharge beyond disturbed areas or discharged into other drainage systems.
15. Sedimentation and erosion control measures shall be inspected and maintained on a daily basis by the O.F.R. to insure that channels, temporary and permanent ditches and pipes are clear of debris, that embankments and berms have not been breached and that all straw bales and silt fences are intact. Any failure of sediment and erosion control measures shall be immediately repaired by the contractor and inspected for approval by the O.F.R. and/or site engineer.
16. Dust shall be controlled by sprinkling or other approved methods as necessary, or as directed by the O.F.R.
17. Cut and fills shall not endanger adjoining property, nor divert water onto the property of others.
18. All fills shall be placed and compacted in 6" lifts to provide stability of material and to prevent settlement.
19. The O.F.R. shall inspect downstream conditions for evidence of sedimentation on a weekly basis and after rainstorms.
20. As warranted by field conditions, special additional sedimentation and erosion control measures, as specified by the site engineer and/or the Town Engineer shall be installed by the contractor.
21. Erosion control measures shall remain in place until all disturbed areas are suitably stabilized.
22. After completion of the site improvements, the owner will assume responsibility for maintenance of the roads, parking lots, drainage systems and stormwater facilities. Each spring the paved areas shall be cleaned to remove the winter accumulation of traction sand. After this is completed all drain inlet and catch basin sumps should be cleaned. All pipes should be checked for debris and blockage and cleaned as required. During the cleaning process, the drain inlets, catch basins and pipes should be inspected for structural integrity and overall condition. Repairs and/or replacements should be made as required.
23. Inspection of the stormwater basins should be performed every 6 months and after large storm events. These inspections should, at a minimum, check the outlet pipes for blockage and the general overall integrity of the basin and appurtenances.
24. Maintain basin vegetation including removal of trees and replacement of vegetation that should die. Remove any litter which accumulates as necessary.
25. Refer to the Stormwater Pollution Prevention Plan for additional details regarding long-term maintenance of the storm drainage facilities.

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE

	MONITORING REQUIREMENTS			MAINTENANCE REQUIREMENTS	
PRACTICE	DAILY	WEEKLY	AFTER RAINFALL	DURING CONSTRUCTION	AFTER CONSTRUCTION
SILT FENCE BARRIER	–	Inspect	Inspect	Clean/Replace	Remove
STABILIZED CONSTRUCTION ENTRANCE	Inspect	–	Inspect	Clean/Replace Stone and Fabric	Remove
DUST CONTROL	Inspect	–	Inspect	Mulching/ Spraying Water	N/A
*VEGETATIVE ESTABLISHMENT	–	Inspect	Inspect	Water/Reseed/ Remulch	Reseed to 80% Coverage
INLET PROTECTION	–	Inspect	Inspect	Clean/Repair/ Replace	Remove
SOIL STOCKPILES	–	Inspect	Inspect	Mulching/ Silt Fence Repair	Remove
SWALES	–	Inspect	Inspect	Clean/Mulch/ Repair	Mow Permanent Grass/Replace/ Repair Rip Rap
CHECK DAMS	–	Inspect	Inspect	Clean/Replace Stones/Repair	Clean/Replace Stones/Repair
CONCRETE DRAINAGE STRUCTURES	–	Inspect	Inspect	Clean Sumps/ Remove Debris/ Repair/Replace	Clean Sumps/ Remove Debris/ Repair/Replace
DRAINAGE PIPES	–	Inspect	Inspect	Clean/Repair	Clean/Repair
ROAD & PAVEMENT	–	Inspect	Inspect	Clean	Clean
*STORMWATER TRAP/BASIN	–	Inspect	Inspect	Clean/Mulch/ Repair/Reseed	See Permanent Stormwater Facilities Maintenance Schedule

* Permanent vegetation is considered stabilized when 80% of the plant density is established. Erosion control measures shall remain in place until all disturbed areas area permanently stabilized.

Note: The party responsible for implementation of the maintenance schedule during and after construction is:
Putnam Valley Volunteer Fire Department Inc.
Oscawana Lake Road
Putnam Valley, NY 10579
and/or the current owner(s) of the subject property.

REQUIRED EROSION CONTROL SWPPP CONTENTS:

Pursuant to the NYSDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-20-001), all Stormwater Pollution Prevention Plan's (SWPPP) shall include erosion and sediment control practices designed in conformance with the most current version of the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." Where erosion and sediment control practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of required SWPPP components is provided in accordance with Part III.B.1a-l of General Permit GP-0-20-001:

a. Background Information: The subject project consists of the construction of a firehouse to be serviced by a drilled well and subsurface sewage treatment system (SSTS).

b. Site map / construction drawing: This plan serves to satisfy this SWPPP requirement.

c. Description of the soils present at the site: Onsite soils located within the proposed limits of disturbance consist of Charlton-Chatfield complex (CrC), Charlton loam (ChE), Paxton fine sandy loam – 2-8% slopes (PnB), Paxton fine sandy loam – 8-15% slopes (PnB), Paxton fine sandy loam – 15-25% slopes (PnE), Paxton fine sandy loam – 8-15% slopes, very stony (PnB), Leicester loam (LeB) as identified on the Soil Conservation Service Web Soil Survey. These soil types belong to the Hydrologic Soil Groups "B" and "C".

d. Construction phasing plan / sequence of operations: The project will not be phased. A Construction Sequence and Erosion and Sediment Control Maintenance Schedule has been provided. The Sedimentation and Erosion Control Notes contained hereon outline a general sequence of operations for the proposed project. In general all erosion and sediment control facilities shall be installed prior to commencement with land disturbing activities, and areas of disturbance shall be limited to the shortest period of time as practicable. As less than five acres of disturbance is proposed all site activity can occur concurrently and does not need to be phased.

e. Description of erosion and sediment control practices: This plan, and details / notes shown hereon serve to satisfy this SWPPP requirement.

f. Temporary and permanent soil stabilization plan: The Sedimentation and Erosion Control Notes and Details provided heron identify temporary and permanent stabilization measures to be employed with respect to specific elements of the project, and at the various stages of development.

g. Site map / construction drawing: This plan serves to satisfy this SWPPP requirement.

h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices: The details, Sedimentation and Erosion Control Notes and Erosion and Sediment Control Maintenance Schedule serve to satisfy this SWPPP requirement.

i. An inspection schedule: Inspections are to be performed weekly and by a qualified professional as required by the General Permit GP-0-20-001. In addition the Owner's Field Representative (OFR) shall perform additional inspections as cited in the Sedimentation and Erosion Control Notes.

j. A description of pollution prevention measures that will be used to control litter, construction chemicals and construction debris: In general, all construction litter / debris shall be collected and removed from the site. The general contractor shall supply either waste barrels or dumpster for proper waste disposal. Any construction chemicals utilized during construction shall either be removed from site daily by the contractor or stored in a structurally sound and weatherproof building. No hazardous waste shall be disposed of onsite, and shall ultimately be disposed of in accordance with all federal, state and local regulations. Material Safety Data Sheets (MSDS), material inventory, and emergency contact numbers shall be maintained by the general contractor for all construction chemicals utilized onsite. Finally, temporary sanitary facilities (portable toilets) shall be provided onsite during the entire length of construction, and inspected weekly for evidence of leaking holding tanks.

k. A description and location of any stormwater discharges associated with industrial activity other than construction at the site: There are no known industrial stormwater discharges present or proposed at the site.

l. Identification of any elements of the design that are not in conformance with the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." All proposed elements of this SWPPP have been designed in accordance with the "New York Standards and Specifications for Erosion and Sediment Control."

LEGEND

Existing Property Line
Existing Wetland Limit W-44 / Line w/ Flag W-43
Existing Watercourse
Existing Wetland Control Line
Existing Stonewall
Existing Guide Rail
Existing 10' Contour (470)
Existing 2' Contour (474)
Existing Spot Grade (468.5)
Existing Catch Basin
Existing Utility Pole
Proposed 10' Contour (470)
Proposed 2' Contour (474)
Proposed Retaining Wall
Proposed Wood Guide Rail
Proposed Inlet Protection
Proposed Drainage Pipe
Proposed End Section
Proposed Roof Drain (RD)
Proposed Silt Fence (SF)
Proposed Limits of Disturbance
Proposed Stabilized Construction Entrance
Proposed Drainage Swale
Proposed Phasing Line
Proposed Phasing Number (1)

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

Construction Sequence

Phase 1 (3.4 Acres)

1. Install stabilized construction entrance and silt fence in general locations indicated on the plan.
2. Clear and grub trees in limits of Phase 1.
3. Complete capping activities per plans prepared by HDR.
4. Construct drainage structures and piping from SDI 16 to ES 15.
5. Construct temporary sediment trap 2.1P and stormwater basin 2.2P. Provide bypass pipe from 2.1P to outlet structure.

Phase 2A (1.4 Acres) (Excluding 0.4 Acres Phase 1 Overlap)

1. Phase 2A can take place at the same time as Phase 1.
2. Clear and grub trees in limits of disturbance.
3. Install silt fence in general locations indicated on the plan.
4. Construct temporary sediment trap 1.1P in front. Install outlet structure, drainage piping and temporary outlet.
5. Begin clearing and grubbing operations associated with building and parking areas.
6. Strip and stockpile topsoil on site for later use in lawn and landscape areas.
7. Begin excavation for foundation and lower parking lot grading.

Phase 2B (1.4 Acres)

1. Once Phase 1 areas are stabilized, begin Phase 2B.
2. Install silt fence in general locations indicated on the plan.
3. Install SSTS and well.
4. Install drainage structures and piping, as well as other utilities as required.
5. Upon completion of grading operations, install finished driveway surfaces.
6. Topsoil, seed, and mulch all disturbed areas as soon as practical in accordance with the Sedimentation and Erosion Control Notes contained on this page.
7. Construct stormwater basin 1.2P.
8. After completion of construction activities and after all of the contributing areas to the stormwater practices have been permanently stabilized, convert the temporary sediment traps to permanent stormwater basins and remove temporary bypass pipe in accordance with the plans and details. Remove accumulated sediment from traps and outlet structures. Establish the final vegetation in the basins.

FOR GENERAL NOTES SEE DRAWING SP-1

NO.	DATE	REVISION	BY
6	1-27-21	REVISED PER PCDHF COMMENTS	MEU
5	12-7-20	REVISED PER TOWN & PCDHF COMMENTS	JWM
4	9-16-20	REVISED FOR PCDHF SUBMISSION	JWM
3	8-13-20	ISSUED FOR BID	JWM
2	2-18-20	REVISED PER TOWN COMMENTS	GM
1	1-21-20	REVISED PER TOWN COMMENTS	GM

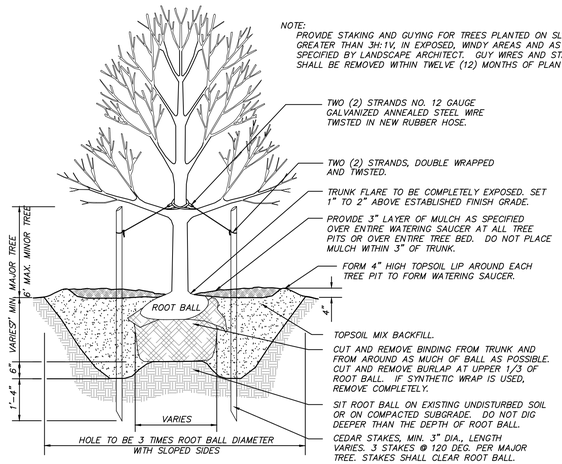
INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT: PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS
OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

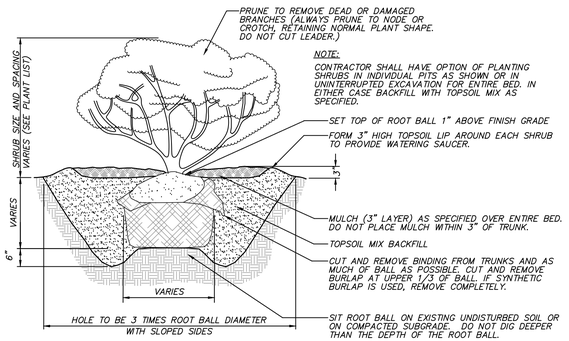
DRAWING: EROSION & SEDIMENT CONTROL & PHASING PLAN

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO.	SHEET
DATE	9-13-19	DRAWN BY	E.J.K.	SP-3.1	5 / 11
SCALE	1" = 40'	CHECKED BY	E.M.S.		

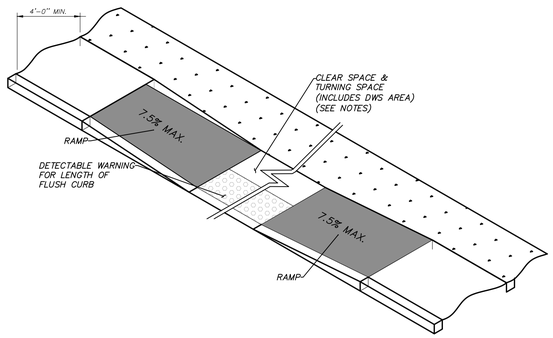
Z:\09105\100\04-SP-3.1.dwg, 1/27/2021 10:18:20 AM, matthur, 1:1



TREE PLANTING DETAIL
(N.T.S.)



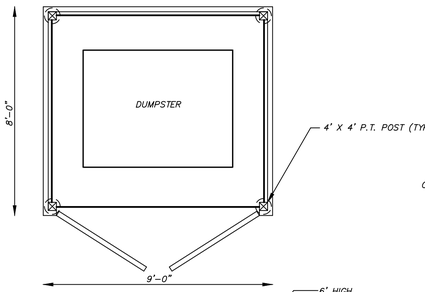
SHRUB PLANTING DETAIL
(N.T.S.)



CURB RAMP CONFIGURATION: TYPE 9
MID BLOCK CROSSING OR T INTERSECTION
(N.T.S.)

NOTES:
1. WHERE A CHANGE IN DIRECTION IS REQUIRED TO UTILIZE A CURB RAMP, A TURNING SPACE SHALL BE PROVIDED AT THE BASE OR THE TOP OF CURB RAMP AS APPLICABLE. TURNING SPACES SHALL BE PERMITTED TO OVERLAP CLEAR SPACES.
2. TURNING SPACES SHALL NOT BE DESIGNED WITH CROSS SLOPE GREATER THAN 1.5% IN ANY DIRECTION, WHILE PROVIDING POSITIVE DRAINAGE. THE MAXIMUM CROSS SLOPE FOR WORK ACCEPTANCE IS 2.0% A NONSTANDARD FEATURE JUSTIFICATION IS REQUIRED WHERE TURNING SPACES EXCEED 2.0% IN ANY DIRECTION.
3. BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4'-0" x 4'-0" MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE PEDESTRIAN CROSSWALK, AND OUTSIDE THE PARALLEL VEHICLE TRAVEL LANE. THE CLEAR SPACE MAY OVERLAP TURNING SPACES, DETECTABLE WARNING SURFACES, AND DROP CURBS.

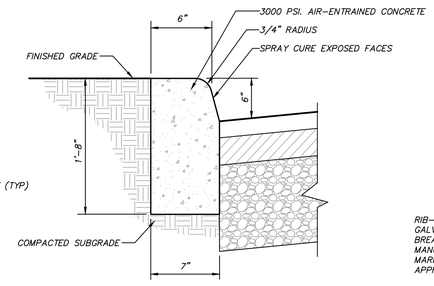
ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.



ELEVATION

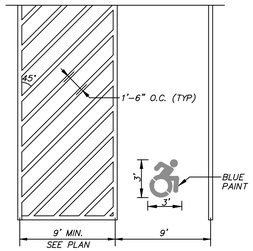
NOTE: CHECK WITH REFUSE HAULER PRIOR TO INSTALLATION OF REFUSE ENCLOSURE FOR DIMENSIONS.

DUMPSTER ENCLOSURE DETAIL
(N.T.S.)



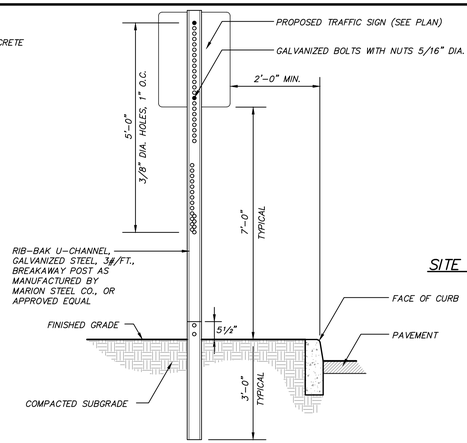
NOTE: ISOLATION JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20'-0" APART AND SHALL BE FILLED WITH CELLULAR COMPRESSION MATERIALS AS SPECIFIED, RECESSED 1/4" IN FROM FRONT FACE AND TOP OF CURB.

CONCRETE CURB DETAIL
(N.T.S.)

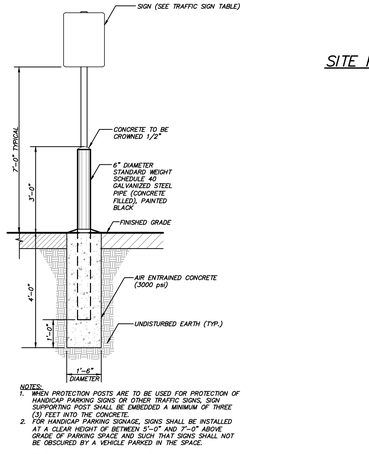


NOTE:
1. ALL HANDICAP STRIPING SHALL BE 4" WIDE BLUE PAINT

PAINTED HANDICAP PARKING DETAIL
(N.T.S.)

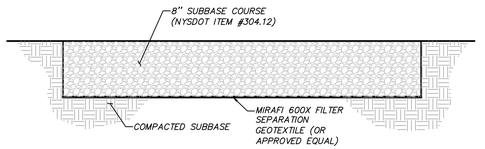


TRAFFIC SIGN DETAIL
(N.T.S.)



NOTES:
1. WHEN PROTECTION POSTS ARE TO BE USED FOR PROTECTION OF HANDICAP PARKING SIGNS OR OTHER TRAFFIC SIGNS, SIGN SUPPORTING POST SHALL BE EMBEDDED A MINIMUM OF THREE (3) FEET INTO THE CONCRETE.
2. FOR HANDICAP PARKING SIGNAGE, SIGNS SHALL BE INSTALLED AT A CLEAR HEIGHT OF BETWEEN 5'-0" AND 7'-0" ABOVE GRADE OF PARKING SPACE AND SUCH THAT SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.

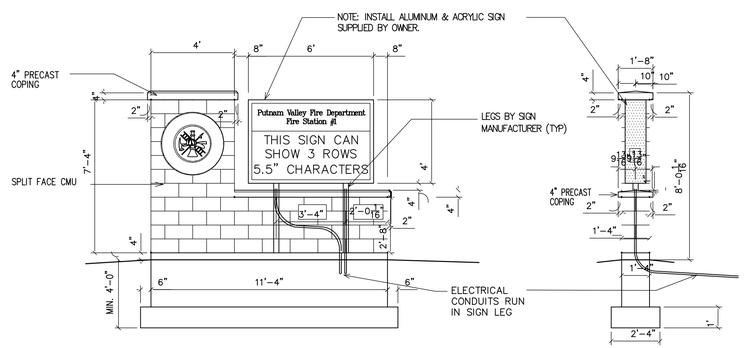
TRAFFIC SIGN WITH STEEL BOLLARD BASE DETAIL
(N.T.S.)



GRAVEL PAVEMENT DETAIL
(N.T.S.)

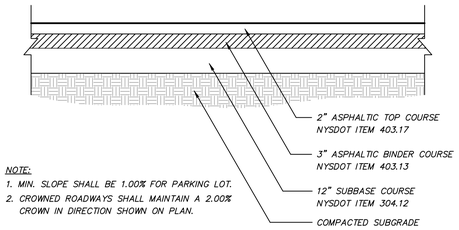
Sign Data Table

Designation No.	Sign	M.U.T.C.D. Number	Size of Sign (s.f.)	Description	Quantity
1	RESERVED PARKING	R7-8	12" x 18"	Blue on White	5
2	ONE WAY	R6-1C	12" x 36"	Black Background White Arrow Black Letters	2
3	ONE WAY	R6-1C	12" x 36"	Black Background White Arrow Black Letters	2
4	NO PARKING ANY TIME	R7-1	12" x 18"	Red on White	4



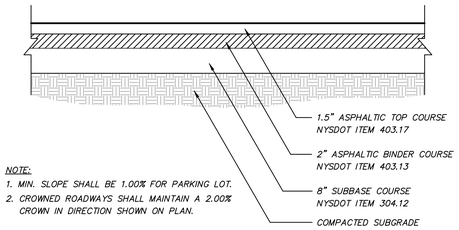
NOTE: PROJECT SIGN SHOWN FOR ZONING COMPLIANCE ONLY. FOR DETAILS AND INSTALLATION SEE ARCHITECTURAL PLANS

PROJECT SIGN DETAIL
(N.T.S.)



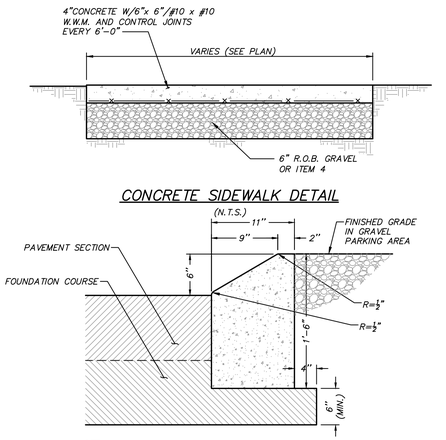
NOTE:
1. MIN. SLOPE SHALL BE 1.00% FOR PARKING LOT.
2. CROWNED ROADWAYS SHALL MAINTAIN A 2.00% CROWN IN DIRECTION SHOWN ON PLAN.

SITE PAVEMENT TYPE 1 SECTION DETAIL (WEST SIDE OF BUILDING)
(N.T.S.)



NOTE:
1. MIN. SLOPE SHALL BE 1.00% FOR PARKING LOT.
2. CROWNED ROADWAYS SHALL MAINTAIN A 2.00% CROWN IN DIRECTION SHOWN ON PLAN.

SITE PAVEMENT TYPE 2 SECTION DETAIL (EAST SIDE OF BUILDING)
(N.T.S.)



CONCRETE SIDEWALK DETAIL
(N.T.S.)

NOTE:
TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 10'-0" APART AND SHALL BE FILLED WITH CELLULAR COMPRESSION MATERIALS AS SPECIFIED, RECESSED 1/4" IN FROM FRONT FACE AND TOP OF CURB.

MOUNTABLE CONCRETE CURB DETAIL
(N.T.S.)

NO.	DATE	REVISION	BY
12	1-27-21	REVISED PER PCDHF COMMENTS	MEU
11	12-7-20	REVISED PER TOWN & PCDHF COMMENTS	JWM
10	9-16-20	REVISED FOR PCDHF SUBMISSION	JWM
9	8-13-20	ISSUED FOR BID	JWM
8	2-18-20	REVISED PER TOWN COMMENTS	GM
7	1-21-20	REVISED PER TOWN COMMENTS	GM
6	1-8-20	REVISED FOR ZBA SUBMISSION	GM
5	11-6-19	REVISED FOR ZBA SUBMISSION	GM
4	9-13-19	REVISED PER TOWN COMMENTS	MEU
3	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
2	02-24-17	REVISED FOR COORDINATED REVIEW	SJC
1	11-30-16	REVISED FOR TEAM REVIEW	MEU

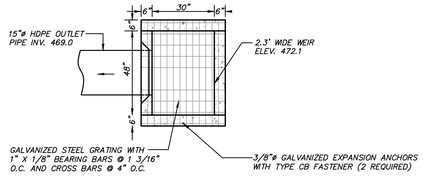
INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT:
PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS
OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

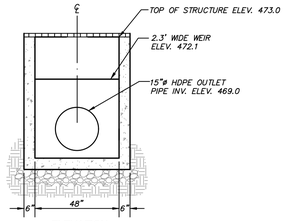
DRAWING:
SITE DETAILS

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO.	SHEET
DATE	7-29-19	DRAWN BY	D.L.M.	D-1	6 / 11
SCALE	AS SHOWN	CHECKED BY	E.N.S.		

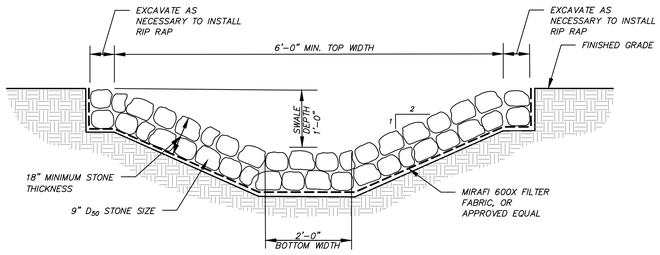
Z:\09105\09105105 D 1 - 3.dwg, 1/27/2021 10:24:39 AM, number 11



PLAN

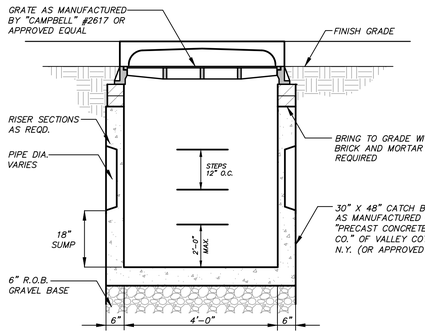


ELEVATION



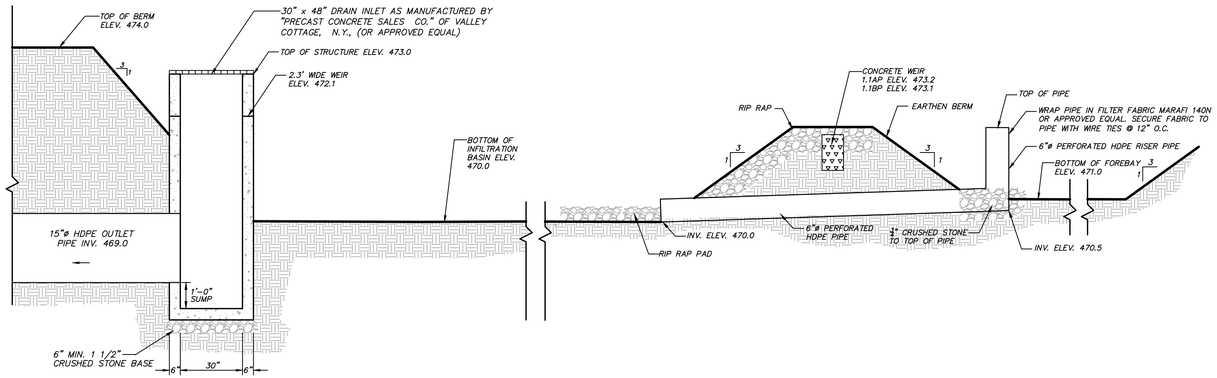
RIP RAP SWALE DETAIL

(N.T.S.)



CATCH BASIN DETAIL

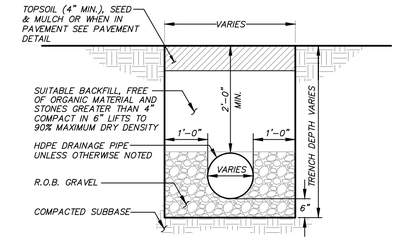
(N.T.S.)



SECTION

PERMANENT STORMWATER BASIN 1.1P AND INFILTRATION BASIN 1.2P (NYSDEC DESIGN 1–2) OUTLET STRUCTURE DETAIL

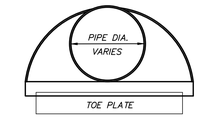
(N.T.S.)



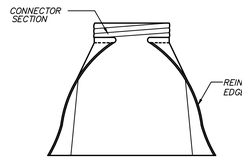
DRAINAGE LINE TRENCH DETAIL

(N.T.S.)

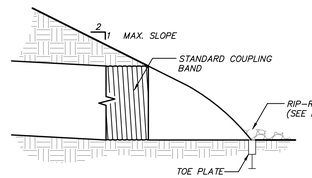
END SECTION/ HEADWALL	OUTLET PIPE DIAMETER (Do)	(D_{50}) RIP RAP SIZE	MAX. RIP RAP SIZE	MIN. RIPRAP BLANKET THICKNESS	LA (MIN.)
ES 2	12"	6"	9"	14"	8 FT.
ES 5	15"	6"	9"	14"	10 FT.
ES 6	15"	6"	9"	14"	10 FT.
ES 10	12"	6"	9"	14"	14 FT.
ES 13	18"	9"	14"	20"	14 FT.
ES 15	18"				



ELEVATION



PLAN

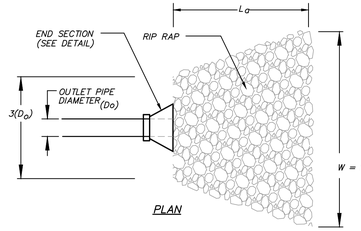


SECTION

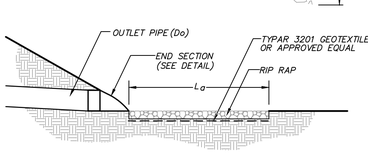
NOTE:
END SECTION CONNECTIONS TO CONFORM TO MANUFACTURERS RECOMMENDATIONS FOR VARIOUS PIPE MATERIAL & SIZES

END SECTION DETAIL

(N.T.S.)



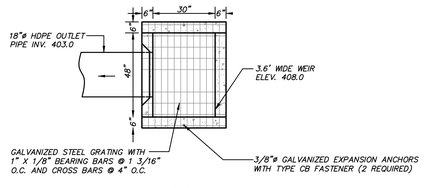
PLAN



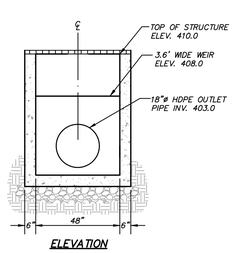
SECTION

RIP RAP APRON DETAIL

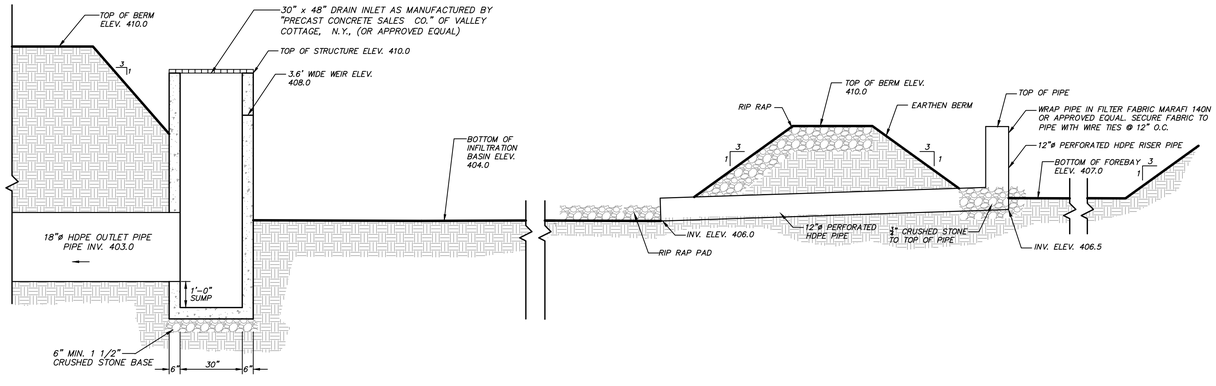
(N.T.S.)



PLAN



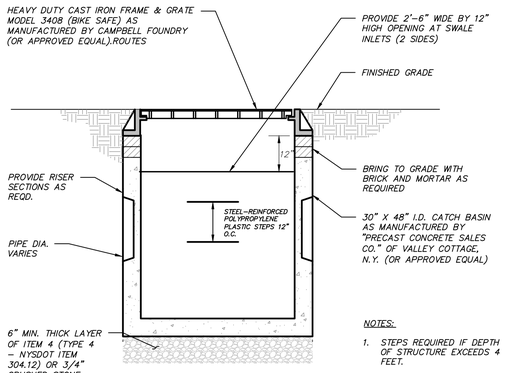
ELEVATION



SECTION

PERMANENT STORMWATER PRETREATMENT BASIN 2.1P AND INFILTRATION BASIN 2.2P (NYSDEC DESIGN 1–2) OUTLET STRUCTURE DETAIL

(N.T.S.)



NOTES:

1. STEPS REQUIRED IF DEPTH OF STRUCTURE EXCEEDS 4 FEET.
2. STRUCTURE AND GRATE TO BE DESIGNED FOR H-20 LOADING.

SIDE DRAIN INLET DETAIL

(N.T.S.)

NO.	DATE	REVISION	BY
11	1-27-21	REVISED PER PCDHF COMMENTS	MEU
10	12-7-20	REVISED PER TOWN & PCDHF COMMENTS	JWM
9	8-13-20	ISSUED FOR BID	JWM
8	2-18-20	REVISED PER TOWN COMMENTS	GM
7	1-21-20	REVISED PER TOWN COMMENTS	GM
6	1-8-20	REVISED FOR ZBA SUBMISSION	GM
5	11-6-19	REVISED FOR ZBA SUBMISSION	GM
4	9-13-19	REVISED PER TOWN COMMENTS	MEU
3	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
2	02-24-17	REVISED FOR COORDINATED REVIEW	SJC
1	11-30-16	REVISED FOR TEAM REVIEW	MEU

INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

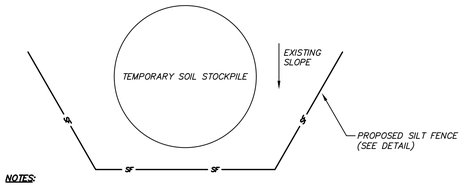
PROJECT:
PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS
OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

DRAWING:
SITE DETAILS

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO.	SHEET
DATE	7-29-19	DRAWN BY	D.L.M.	D-2	7 / 11
SCALE	AS SHOWN	CHECKED BY	E.N.S.		

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

Z:\09105\100\05\D1 - 3.dwg, 1/27/2021 10:25:03 AM, nurmer 11

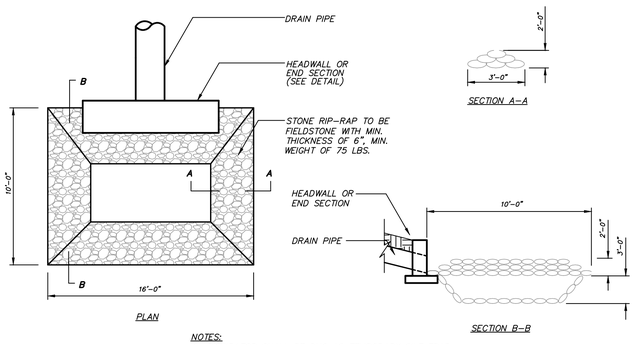


NOTES:

1. AREA CHOSEN FOR STOCKPILE LOCATION SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE IMMEDIATELY SEEDED WITH K31 PERENNIAL TALL FESCUE.
4. ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING INSTALLED ON THE DOWNGRADIENT SIDE.

TEMPORARY SOIL STOCKPILE DETAIL

(N.T.S.)

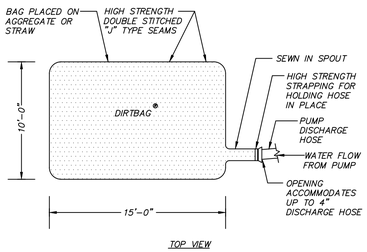


NOTES:

1. DISSIPATOR SHALL BE DUG AS TEMPORARY SILT TRAP DURING CONSTRUCTION. RIP-RAP AFTER PAVEMENT AND GRADING ARE COMPLETED.
2. DISSIPATOR SHALL BE LINED BENEATH RIP-RAP WITH TYPAR 3401 GEOTEXTILE OR APPROVED EQUAL.

VELOCITY DISSIPATOR DETAIL

(N.T.S.)

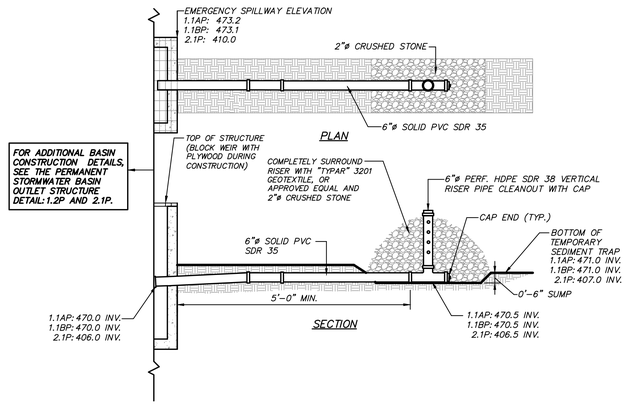


NOTES:

1. PUMPED SILT CONTROL SYSTEM TO BE LOCATED WHERE WATER, AFTER PASSING THROUGH SYSTEM, WILL NOT CAUSE EROSION.
2. PUMPED SILT CONTROL SYSTEM TO BE MONITORED AND MAINTAINED TO ASSURE ADEQUATE FILTRATION.
3. PUMPED SILT CONTROL SYSTEM TO BE MANUFACTURED BY ACF ENVIRONMENTAL (1-800-448-3636) OR APPROVED EQUAL.

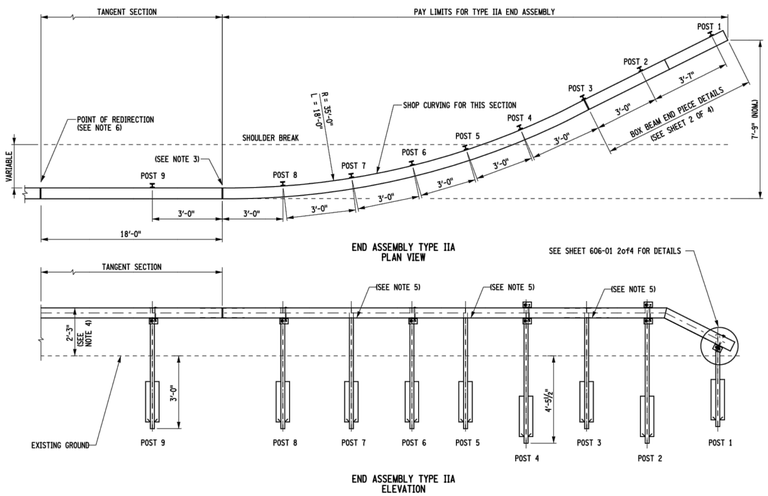
"DIRTBAG" PUMPED SILT CONTROL SYSTEM DETAIL

(N.T.S.)



TEMPORARY SEDIMENT TRAP OUTLET STRUCTURE DETAIL

(N.T.S.)



TYPE IIA NOTES:

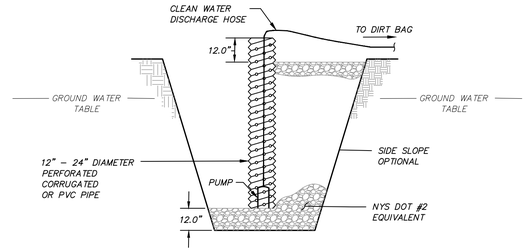
1. POSTS 2, AND 4 SHALL BE EXTRA LONG POSTS. POSTS 3, 5, 6, 7, 8, AND 9 SHALL BE STANDARD LENGTH.
2. POSTS 2 AND 4 SHALL BE FASTENED TO THE RAIL USING DETAIL "A".
3. FOR SIDE SLOPES 1:5 OR FLATTER, THE 18' OF CURVED BOX BEAM MAY BE PROVIDED IN A CURVED PORTION OF A 24' OR 36' PIECE. OTHERWISE, AN 18' SECTION IS TO BE SPLICED AT THE POINT OF TANGENCY.
4. THE DRAWING INDICATES THE TERMINAL INSTALLED ON LEVEL GROUND. WHEN INSTALLED OVER A SLOPE OR DITCH, THE TERMINAL END SHOULD BE PUSHED DOWN WITH THE EQUIVALENT OF APPROXIMATELY 100 LBS EFFORT TO DEPRESS THE TERMINAL DOWN.
5. POSTS 3, 5, AND 7 SHALL NOT BE CONNECTED TO BOX BEAM GUIDE RAIL. HOWEVER, FOR RUNS LESS THAN 130' IN LENGTH, ALL BACKUP POSTS SHALL BE FASTENED TO THE RAIL.
6. FOR DESIGN SPEEDS UNDER 50 MPH THE POINT OF REDIRECTION WILL BE AT THE POINT OF TANGENCY.

NOTE: MATERIALS & INSTALLATION TO BE PER NYSDOT STANDARD SHEET 606-04.

BOX BEAM GUIDERAIL DETAIL

(N.T.S.)

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

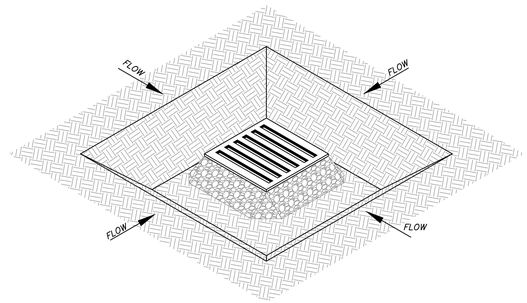


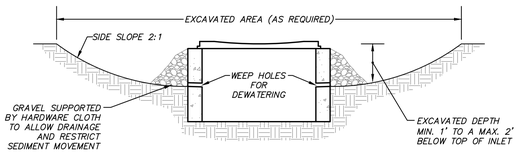
NOTES:

1. PIT DEMENSIONS ARE OPTIONAL.
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12-24" DIAMETER CORRUGATED METAL OR PVC PIPE.
3. A BASE OF 2" AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12" AFTER INSTALLING THE STANDPIPE. THE PIT SURROUNDING THE STANDPIPE SHOULD BE BACKFILLED WITH 2" AGGREGATE.
4. THE STANDPIPE SHOULD EXTEND 12-18" ABOVE THE LIP OF THE PIT.
5. IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE SHOULD BE WRAPPED WITH FILTERCLOTH BEFORE INSTALLATION. IF DESIRED, 1/4"-1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE PRIOR TO ATTACHING THE FILTERCLOTH.

SUMP PIT DETAIL

(N.T.S.)

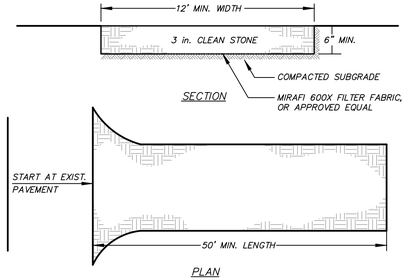




1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL EXCAVATION WITH STABLE SOIL TO FINAL GRAFE, COMPACT IT PROPERLY, AND STABILIZE WITH PERMANENT SEEDING
5. MAXIMUM DRAINAGE AREA = 1 ACRE

EXCAVATED DROP INLET PROTECTION DETAIL

(N.T.S.)

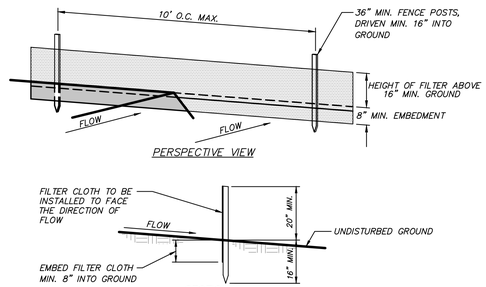


INSTALLATION NOTES

1. STONE SIZE - USE 3" STONE
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.)
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCUR.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

(N.T.S.)



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS AT TOP AND MID SECTION.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD

FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

SILT FENCE DETAIL

(N.T.S.)

NO.	DATE	REVISION	BY
10	1-27-21	REVISED PER PCDHF COMMENTS	MEU
9	12-7-20	REVISED PER TOWN & PCDHF COMMENTS	JWM
8	9-16-20	REVISED FOR PCDHF SUBMISSION	JWM
7	8-13-20	ISSUED FOR BID	JWM
6	2-18-20	REVISED PER TOWN COMMENTS	GM
5	1-21-20	REVISED PER TOWN COMMENTS	GM
4	9-13-19	REVISED PER TOWN COMMENTS	MEU
3	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
2	02-24-17	REVISED FOR COORDINATED REVIEW	SJC
1	11-30-16	REVISED FOR TEAM REVIEW	MEU

INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT:
PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS
OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

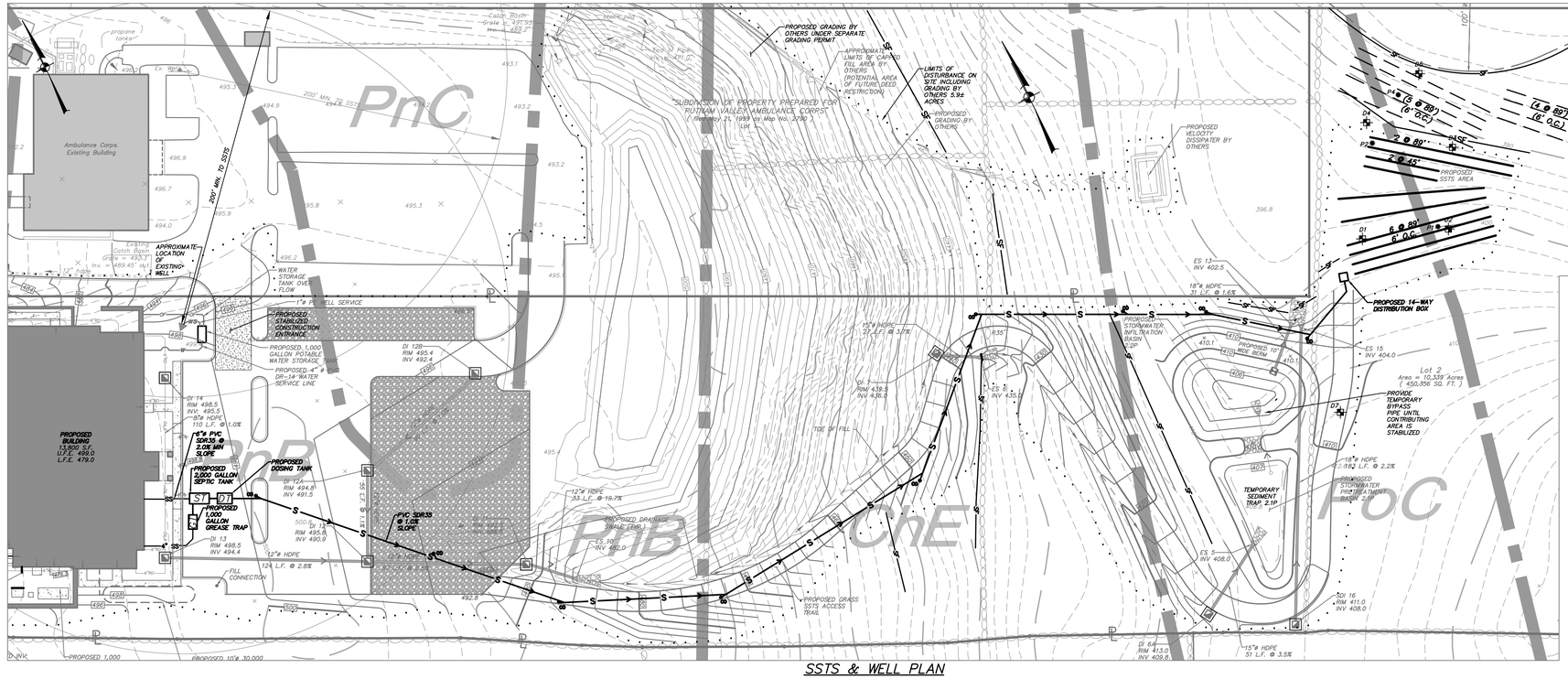
DRAWING:
SITE DETAILS

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.
DATE	7-19-19	DRAWN BY	D.L.M.
SCALE	AS SHOWN	CHECKED BY	E.N.S.

DRAWING NO. D-3

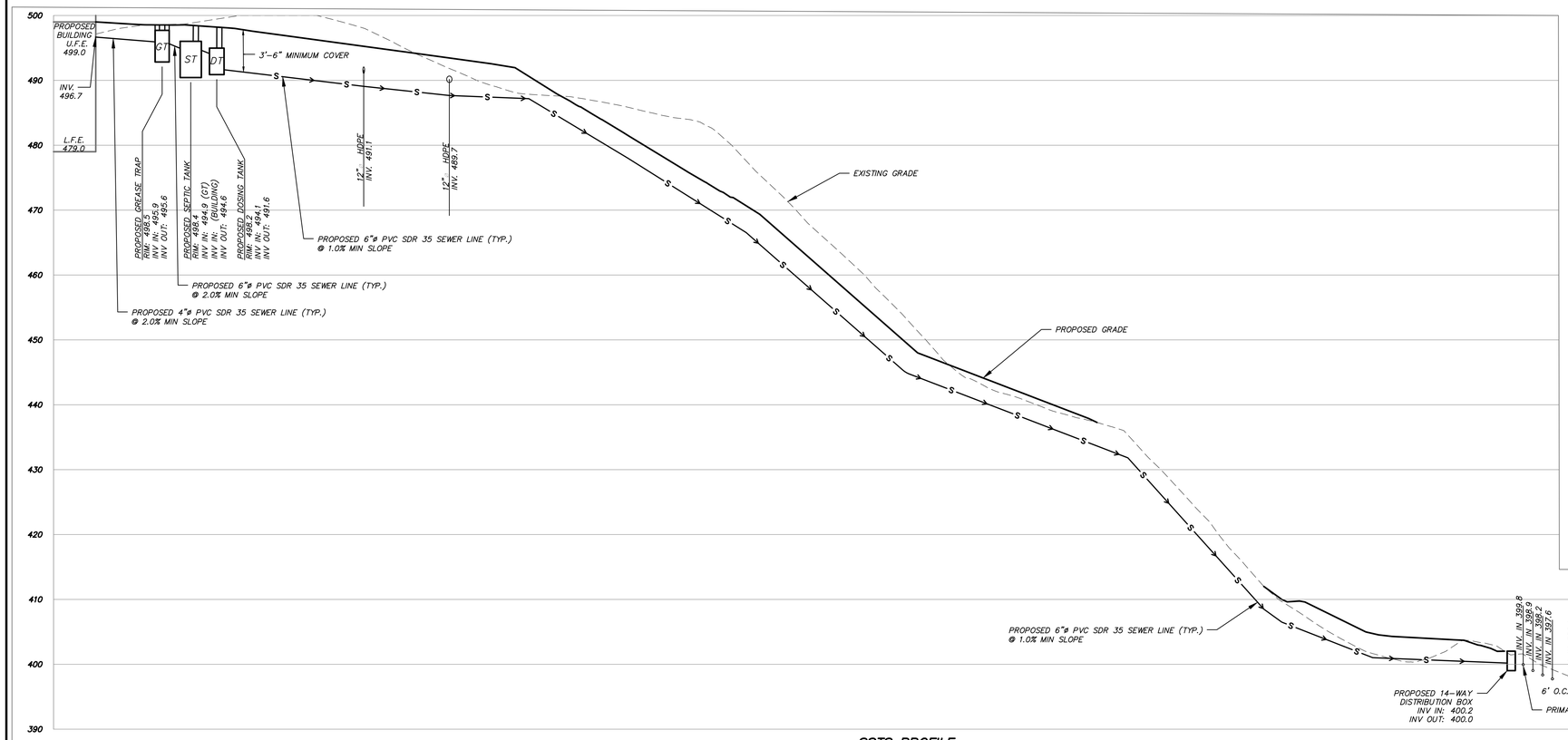
SHEET 8/11

Z:\E\09105100\05\1-3.dwg, 1/27/2021 10:29:10 AM, author: 11



SSTS & WELL PLAN

SCALE: 1" = 40'



SSTS PROFILE

SCALE: HORIZ. 1" = 40'
VER. 1" = 10'

SSTS DESIGN DATA:

TOTAL DESIGN FLOW: = 1,280 GPD

DESIGN PERCOLATION RATE: 11-15 MIN/IN
REQUIRED LENGTH OF ABSORPTION TRENCH: 800 L.F.
PRIMARY, 802 L.F. PROVIDED (801 L.F. EXPANSION)
PRECAST CONCRETE SEPTIC TANK: 2,000 GALLON
ADDITIONAL REQUIREMENTS: DOSING TANK

SSTS DESIGN DATA:

PERCOLATION TEST RESULTS

P1:	6	MIN/INCH	(4/07/17)
P2:	12	MIN/INCH	(4/07/17)
P3:	15	MIN/INCH	(4/07/17)
P4:	11	MIN/INCH	(4/19/17)

DEEP TEST RESULTS: 6/16/09

DEEP TESTS OBSERVED BY:
ERIC KINGSBURRY (INSITE ENGINEERING)
GENE REED (PUTNAM COUNTY DEPARTMENT OF HEALTH

NOTE: NO GROUNDWATER, MOTTLING, OR ROCK ENCOUNTERED UNLESS NOTED.

D 1: 0"-6": TOPSOIL
6"-36": YELLOW BROWN SANDY LOAM
36"-60": BROWN MODERATELY COMPACTED SAND & GRAVEL
60"-84"+ GRAY COARSE SAND & GRAVEL

D 2: 0"-6": TOPSOIL
6"-36": YELLOW BROWN SANDY LOAM
36"-84"+: GRAY COMPACTED COARSE SAND & GRAVEL

D 3: 0"-6": TOPSOIL
6"-36": YELLOW BROWN SANDY LOAM
36"-84"+: GRAY COMPACTED COARSE SAND & GRAVEL

D 4: 0"-6": TOPSOIL
6"-36": YELLOW BROWN SANDY LOAM
36"-60": BROWN MODERATELY COMPACTED SAND & GRAVEL
60"-96"+ GRAY COARSE SAND & GRAVEL

D 5: 0"-6": TOPSOIL
6"-36": YELLOW BROWN SANDY LOAM
36"-60": BROWN MODERATELY COMPACTED SAND & GRAVEL
60"-84"+ GRAY COARSE SAND & GRAVEL

D 6: 0"-6": TOPSOIL
6"-36": YELLOW BROWN SANDY LOAM
36"-84"+: GRAY COMPACTED COARSE SAND & GRAVEL

D 7: 0"-6": TOPSOIL
6"-36": YELLOW BROWN SANDY LOAM
36"-84"+: GRAY COMPACTED COARSE SAND & GRAVEL

D 8: 0"-6": TOPSOIL
6"-24": YELLOW BROWN SANDY LOAM
24"-48": BROWN SANDY LOAM
48"-60"+ GRAY COMPACTED SAND & GRAVEL

D 9: 0"-6": TOPSOIL
6"-24": YELLOW BROWN SANDY LOAM
24"-48": BROWN SANDY LOAM
48"-72"+ GRAY COMPACTED SAND & GRAVEL

SOILS LEGEND

SOILS	DESCRIPTION	HYDROLOGICAL GROUP
CrC	Charlton-Chatfield complex, rolling, very rocky	B
ChE	Charlton Loam, 25% to 35% Slopes	B
PnB	Paxton fine sandy loam, 2% to 8% slopes	C
PnC	Paxton fine sandy loam, 8% to 15% slopes	C
PnD	Paxton fine sandy loam, 15% to 25% slopes	C
PoC	Paxton fine sandy loam, 8% to 15% slopes, Very Stony	C
LeB	Leicester Loam, 3% to 8%, Very Stony	C

Note: Soils information shown is based on interpretation of the USDA SCS Soils Survey.

LEGEND

- Existing Property Line
- Existing Wetland Limit Line w/ Flag (W-44 / W-43)
- Existing Watercourse
- Wetland Control Line
- Existing Stonewall
- Existing Guide Rail
- Existing 10' Contour (470)
- Existing 2' Contour (474)
- Existing Spot Grade (468.5)
- Existing Catch Basin
- Existing Pipe (sizes shown) (12" hdpe)
- Existing Utility Pole
- Existing Tree (10" Maple)
- Existing Tree to be Removed (10" Maple)
- Proposed 10' Contour (470)
- Proposed 2' Contour (474)
- Proposed Retaining Wall
- Proposed Wood Guide Rail
- Proposed Inlet Protection
- Proposed Drainage Pipe
- Proposed End Section
- Proposed Roof Drain (RD)
- Proposed Silt Fence (SF)
- Proposed Limits of Disturbance
- Deep Test Hole (D4)
- Percolation Test (P4)
- Proposed Dosing Tank (DT)
- Proposed 2,000 Gallon Septic Tank (ST)
- Proposed 1,000 Gallon Grease Trap (GT)
- Proposed Primary Absorption Trench
- Proposed Expansion Absorption Trench
- Proposed 6" (Unless Otherwise Noted) PVC SDR 35 Sewer Service Line @ 2.0% Minimum Slope (SS)
- Proposed 6" ø PVC SDR 35 Sewer Pipe 1.0% Minimum Slope With Cleanout (CO)
- Proposed Stabilized Construction Entrance

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

NO.	DATE	REVISION	BY
7	1-27-21	REVISED PER PCDHF COMMENTS	MEU
6	12-7-20	REVISED PER TOWN & PCDHF COMMENTS	JWM
5	8-13-20	ISSUED FOR BID	JWM
4	2-18-20	REVISED PER TOWN COMMENTS	GM
3	1-21-20	REVISED PER TOWN COMMENTS	GM
2	9-13-19	REVISED PER TOWN COMMENTS	MEU
1	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM

INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT:
PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS

OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

DRAWING:
SSTS & WELL PLAN

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO.	SHEET
DATE	7-29-19	DRAWN BY	M.E.U.	HD-1	9 / 11
SCALE	AS SHOWN	CHECKED BY	E.M.S.		

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

Z:\E\09105\00\06-HD-1.dwg, 1/27/2021 10:37:04 AM, nutter.11

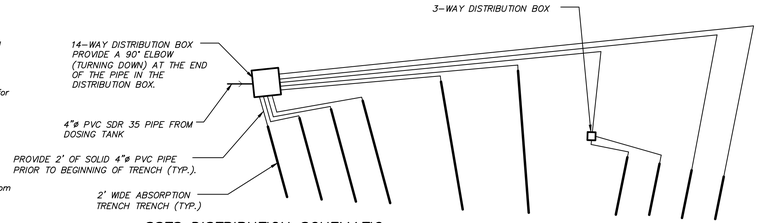
SSTS CONSTRUCTION NOTES

PCDOH Required Notes

1. SSTS area to be field staked and cordoned to prevent the operation of trucks and/or machinery or storage of heavy equipment, building equipment, or excavated earth in this area.
2. SSTS system to be inspected by the Design Professional and the Putnam County Department of Health after installation and prior to backfill.
3. The well is to be a drilled well, constructed in accordance with New York State Health Department 10NYCRR Appendix 5B, Standard for Water Wells, pump tested for a minimum of 6 hours and have a minimum safe yield of 5 gpm.
4. Putnam County Department of Health and New York City Department of Environmental Protection approval is based on the location of the sewage system, well, building, setbacks, roads and driveways as well as building size and use as shown on the approved drawing. Any modifications or revisions are to have prior approval from both agencies.
5. Unauthorized modifications made to this drawing after the date of the Putnam County Department of Health approval voids said approval.
6. Putnam County Department of Health and NYCDEP approval is based on maximum flow of 1,280 gallons per day. An increase in the flow will require prior approval from the Department.
7. A 5/8" Sensus SRII water meter shall be installed and daily readings furnished to the Putnam County Department of Health each month.
8. The SSTS is to receive sanitary waste only. The discharge of industrial wastes, contaminated cooling water, or other deleterious substances into or onto the surface of the ground is prohibited. The Putnam County Department of Health reserves the right of inspection of the premises to insure compliance with these requirements.
9. Putnam County Department of Health shall be promptly notified in the event that any wastes other than strictly domestic sanitary wastes are produced at this facility.
10. Occupancy of the building(s) will not be permitted until the Construction Compliance Application has been received and approved by the Putnam County Department of Health and forwarded to the building inspector of the respective municipality as part of the Certificate of Occupancy Application.
11. After backfilling the system, the SSTS area shall be covered with a minimum of 6 inches of topsoil, and seeded and mulched.
12. Remove all trees within 10 feet of the absorption system.
13. All existing and/or proposed SSTS's and wells on neighboring properties within 200 feet of proposed SSTS and well are shown on this plan.
14. Cut or fill is not permitted in the sewage treatment area(s), except if so specified on this plan.
15. All stone walls in and within 10 feet of the SSTS area shall be removed to their entire depth and the resulting void replaced with similar on site soil.
16. If any pre-cast concrete tank is delivered to the site in sections, then it shall be demonstrated to the Department and/or certifying Design Professional that the tank is sealed, watertight and acceptable for use. This shall require, as a minimum, the filling of the tank with water and observing the water level after a 24-hour period to demonstrate if it is in fact sealed, watertight and acceptable for use.
17. All erosion control measures for building(s), well(s) and SSTS(s) are to be installed prior to any construction.
18. The conditions noted on the Putnam County Department of Health Letter of Approval are an integral part of this approval and compliance is required.
19. This plan is approved for sewage treatment and/or water supply only, and all other permits and/or approvals are the responsibility of the permittee.
20. The Putnam County Department of Health Approval expires (2) years from the date on the approval stamp and is required to be renewed on or before the expiration date. The approval is revocable for cause or may be amended or modified when considered necessary by the Department.

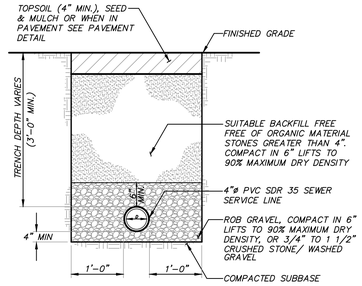
Additional Notes

21. Property line, topography, existing conditions and wetland flag locations shown hereon are based upon Boundary & Topography Map of Property prepared by Baxter Land Surveying, P.C., Mahopac, New York, dated November 5, 2007, last revised June 29, 2016.
22. There is a 100-year flood plain on the eastern most portion of the site outside the development area per FEMA Firm.
23. All precast concrete tanks to be H-20 loading and have access to grade manhole frames and covers.
24. Refer to site plan drawings prepared by Insite Engineering, Surveying, & Landscape Architecture, P.C. for additional details of site improvements.
25. The contractor shall verify the minimum invert out of the building prior to the start of construction, and maintain the minimum slopes and elevations shown hereon. The design engineer shall be notified immediately of any discrepancies.
26. The following items shall be staked out by a N.Y.S. licensed land surveyor prior to the start of construction: SSTS, Well, Property Line and setbacks in the vicinity of the proposed SSTS.
27. It shall be the Contractor's responsibility to identify and protect all underground utilities. The contractor shall contact Dig Safely New York at 811 and any other required utility locators prior to the start of construction.
28. There shall be no 90° bends from the house to the septic tank, and from the septic tank to the distribution box / drop boxes.
29. Commercial septic tanks are to have an inlet baffle extending 1'-3" below the liquid level and an outlet baffle extending 1'-6" below the liquid level. If the precast concrete baffles do not extend to the required depths, the contractor is to install sanitary tees extending to the required depths.
30. The soils in the area of the SSTS are PoC, Paxton Fine Sandy Loam (8 to 15% slopes) very stony and PnB, Paxton Fine Sandy Loam (2 to 8% slopes) according to the USDA-SCS soils mapping.



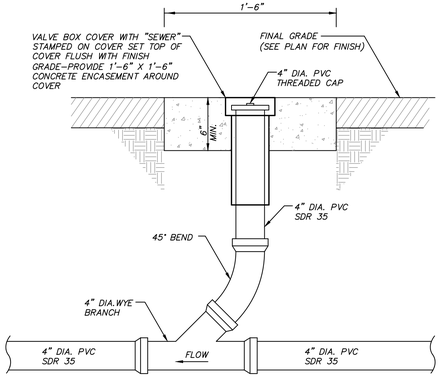
SSTS DISTRIBUTION SCHEMATIC

(N.T.S.)



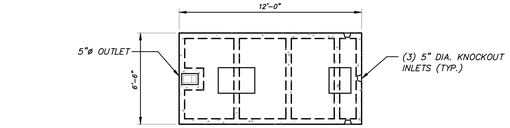
SEWER SERVICE LINE TRENCH DETAIL

(N.T.S.)

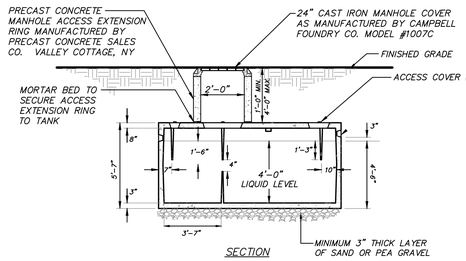


SEWER LINE CLEANOUT DETAIL

(N.T.S.)



PLAN

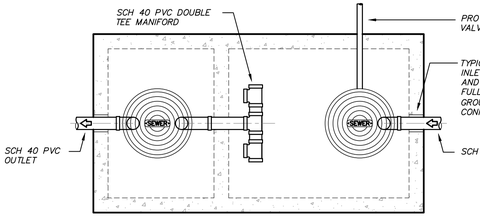


SECTION

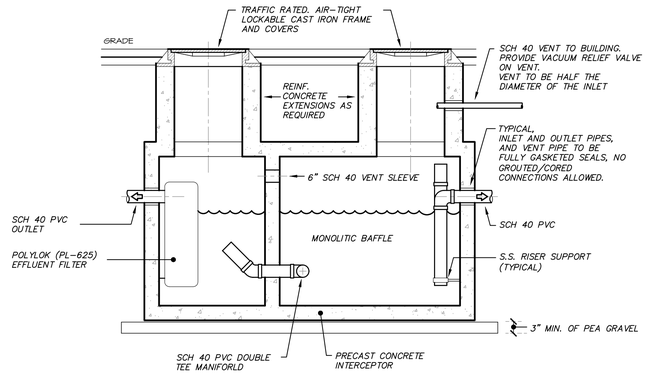
2000 GALLON SEPTIC TANK DETAIL

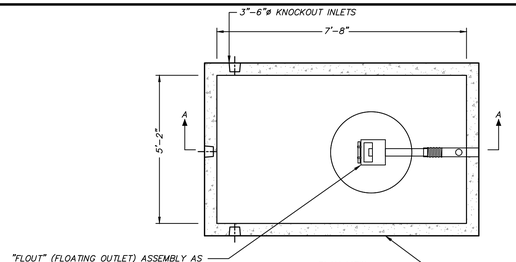
(TO BE DESIGNED FOR H-20 LOADING)

(N.T.S.)

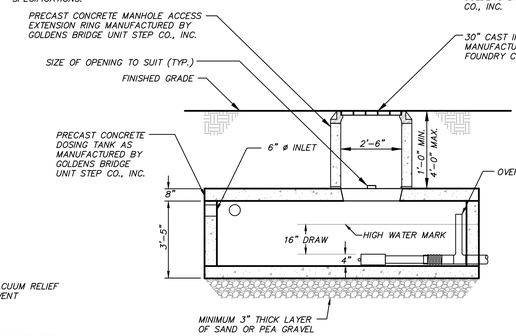


PLAN VIEW





PLAN VIEW



SECTION A-A

DOSING VOLUME CALCULATIONS

DOSE VOLUME = APPROXIMATELY 75% OF ABSORPTION TRENCH VOLUME

ABSORPTION TRENCH VOLUME= 802 LF X $\frac{\pi(\frac{4}{12})^2}{4}$ X $\frac{7.48\ GAL}{C.F.}$ = 524 GALLONS

APPROXIMATE DOSING VOLUME = 75% TO 85% OF ABSORPTION TRENCH VOLUME

0.75 X 524 GALLONS = 393 GALLONS, 0.85 X 524 GALLONS = 445 GALLONS,

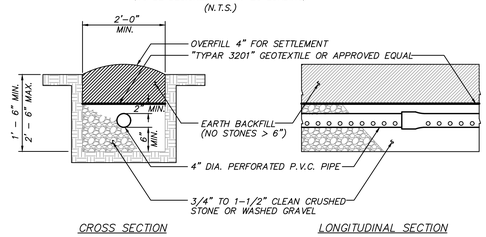
USE DOSING TANK WITH 395 GALLON DOSE

NOTE:
THE DOSE SETTINGS NOTED ARE FOR A DOSING TANK WITH THE SPECIFIC DIMENSIONS SHOWN HEREON. IF A DOSING TANK WITH DIFFERENT DIMENSIONS IS USED, PRIOR TO INSTALLATION OF THE TANK, THE CONTRACTOR MUCH CONTACT THE DESIGN ENGINEER AND LOCAL DEPARTMENT OF HEALTH FOR REVIEW AND ACCEPTANCE OF THE NEW TANK.

DOSING TANK DETAIL

(TO BE DESIGNED FOR H-20 LOADING)

(N.T.S.)

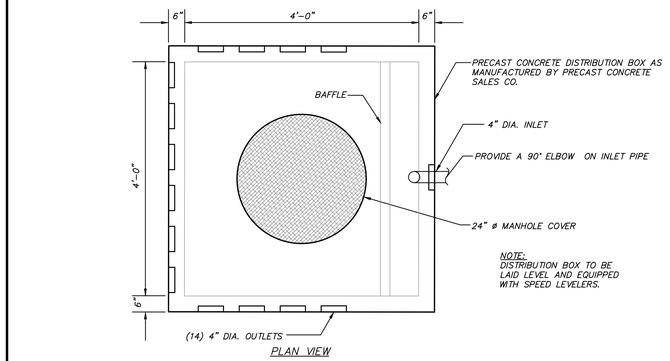


CROSS SECTION LONGITUDINAL SECTION

NOTES:
1. PROVIDE 2' OF SOLID PIPE AT THE BEGINNING OF EVERY TRENCH.
2. PROVIDE END CAPS AT THE END OF EACH ABSORPTION TRENCH.
3. THE SLOPE OF THE PERFORATED PIPES SHALL BE BETWEEN A MINIMUM OF 1/32"/FT AND A MAXIMUM OF 1/16" FT. UNLESS THE TRENCHES ARE DOSED BY PUMPING OR BY A DOSING TANK. DOSED TRENCHES SHALL BE LEVEL.

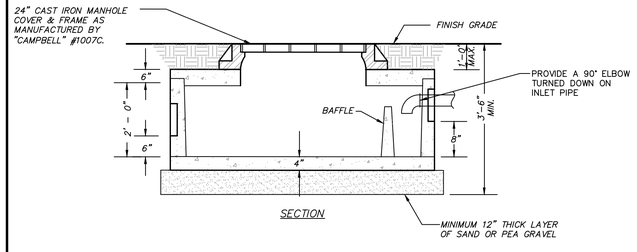
ABSORPTION TRENCH DETAIL

(N.T.S.)



PLAN VIEW

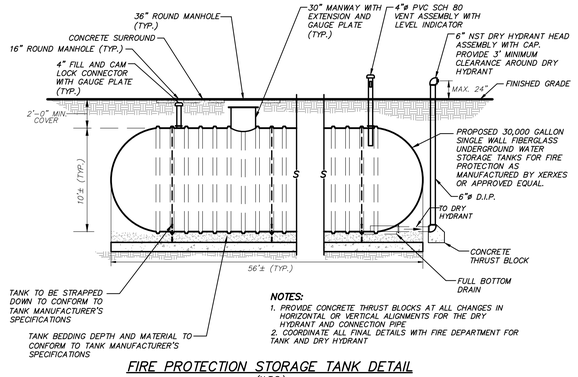
NOTE:
DISTRIBUTION BOX TO BE LAID LEVEL AND EQUIPPED WITH SPEED LEVELERS.



SECTION

14 WAY DISTRIBUTION BOX DETAIL

(N.T.S.)



NOTES:
1. PROVIDE CONCRETE THRUST BLOCKS AT ALL CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS FOR THE DRY HYDRANT AND CONNECTION PIPE
2. COORDINATE ALL FINAL DETAILS WITH FIRE DEPARTMENT FOR TANK AND DRY HYDRANT

FIRE PROTECTION STORAGE TANK DETAIL

(N.T.S.)

SPECIFICATIONS
USE WOODARD'S CONCRETE PRODUCTS OR APPROVED EQUAL AS FOLLOWS
CONCRETE MINIMUM STRENGTH – 4,000 PSI @ 28 DAYS.
STEEL REINFORCEMENT – #4 AND #5 REBAR/ASTM A615
CONSTRUCTION JOINT – BUYTL RUBBER SEALANT
PIPE CONNECTION – POLYLOC SEAL OR AS NEEDED
GREASE TANK SHALL BE CONSTRUCTED FOR HIGHWAY LOADING. (H-20)

NOTE:
THIS DETAIL CONTAINS THE BASIC ELEMENTS AND EQUIPMENT FOR A GREASE TRAP. THE CONFIGURATION OF CONNECTIONS MAY VARY. SEE PLUMBING DRAWINGS.

1,000 GALLON GREASE TRAP DETAIL

(N.T.S.)

NO.	DATE	REVISION	BY
7	1-27-21	REVISED PER PCDHF COMMENTS	MEU
6	12-7-20	REVISED PER TOWN & PCDHF COMMENTS	JWM
5	8-13-20	ISSUED FOR BID	JWM
4	2-18-20	REVISED PER TOWN COMMENTS	GM
3	1-21-20	REVISED PER TOWN COMMENTS	GM
2	9-13-19	REVISED PER TOWN COMMENTS	MEU
1	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM

INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

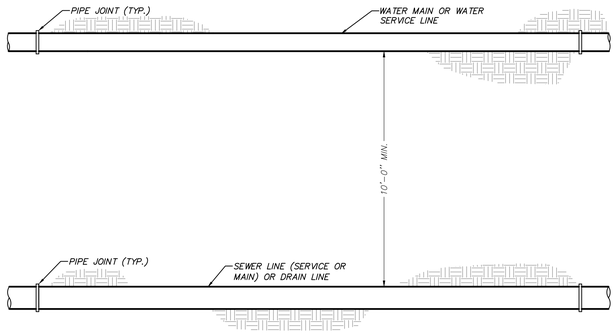
PROJECT:
PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS
OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

DRAWING:
SSTS & WELL DETAILS

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO.	SHEET
DATE	7-29-19	DRAWN BY	M.E.U.	HD-2	10 / 11
SCALE	AS SHOWN	CHECKED BY	E.M.S.		

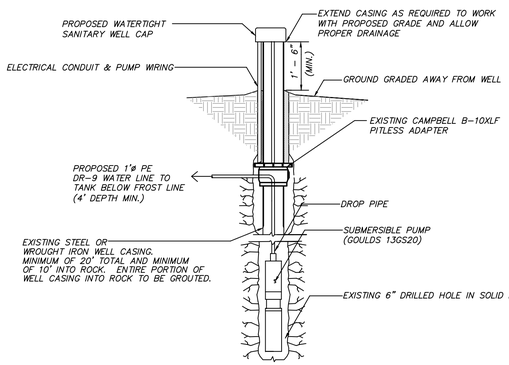
ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

Z:\E\09105\DWG\07-HD-2 - 3.dwg, 1/27/2021 10:37:46 AM, nuthor, 1:1



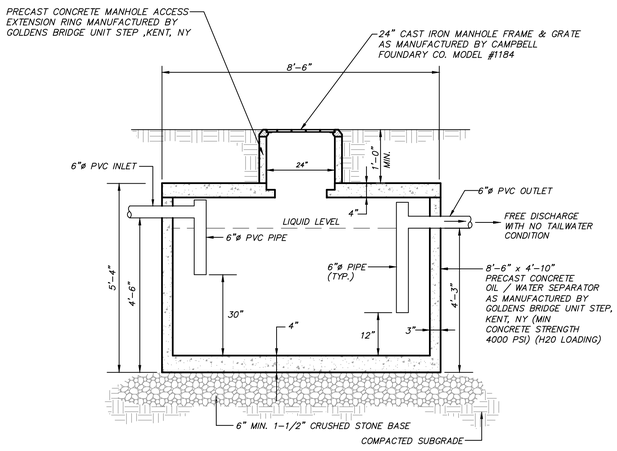
NOTES:
1. WHEN THE 10' SEPARATION CANNOT BE MAINTAINED, THE WATER LINE SHALL BE ENCASED IN CONCRETE (SEE DETAIL) ONLY WITH PRIOR APPROVAL OF THE DESIGN ENGINEER AND DEPARTMENT OF HEALTH.
2. THE 10' SEPARATION APPLIES TO WATER MAINS AND WATER SERVICE CONNECTIONS.

WATER LINE HORIZONTAL SEPARATION DETAIL
(N.T.S.)

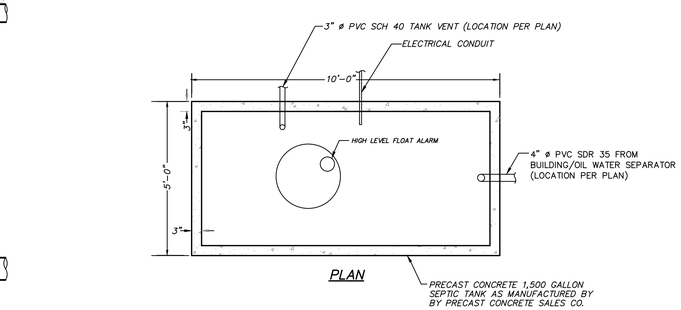


NOTES:
1. PROVIDE SANITARY SEALS WHERE NECESSARY.
2. MINIMUM WELL YIELD SOUGHT IS 5 GPM

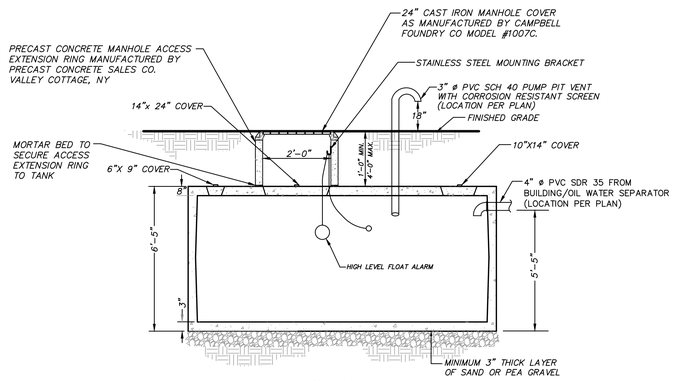
PITLESS UNIT WELL DETAIL
(N.T.S.)



1,000 GALLON OIL/WATER SEPARATOR DETAIL
(N.T.S.)

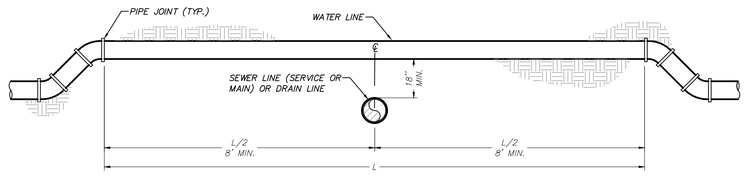


PLAN

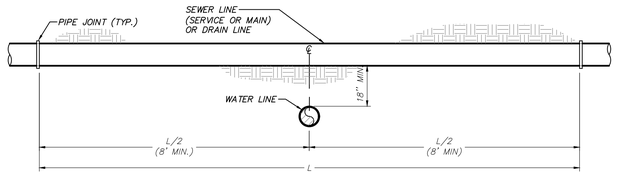


SECTION

1,500 HOLDING TANK DETAIL
(TO BE DESIGNED FOR H-20 LOADING)
(N.T.S.)



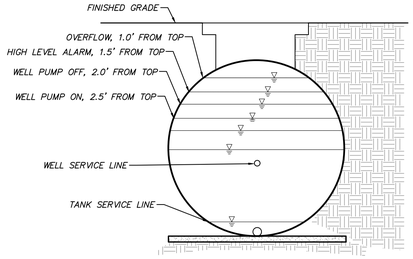
WATER LINE CROSSING OVER SANITARY SEWER LINE OR STORM DRAIN LINE



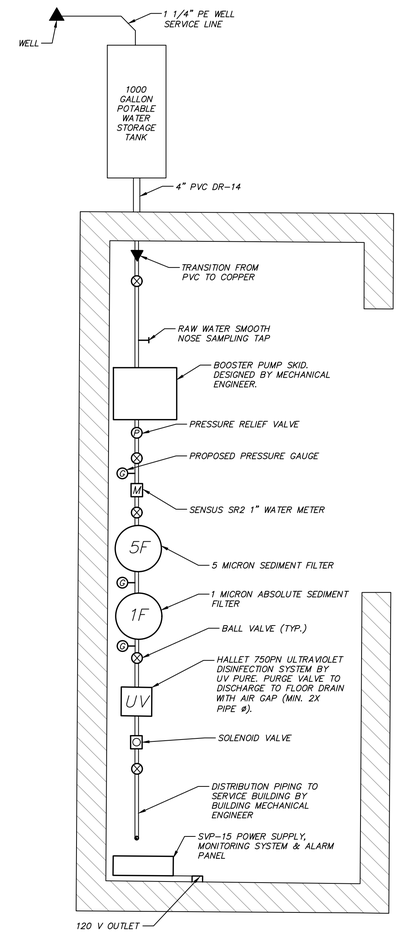
WATER LINE CROSSING UNDER SANITARY SEWER LINE OR STORM DRAIN LINE

NOTES:
1. WHEN 18" SEPARATION CANNOT BE MAINTAINED, THE WATER LINE SHALL BE ENCASED IN CONCRETE (SEE DETAIL) ONLY WITH PRIOR APPROVAL OF THE DESIGN ENGINEER AND DEPARTMENT OF HEALTH.
2. PROVIDE PIPE AND FITTING RESTRAINT AS REQUIRED.
3. THE 18" SEPARATION APPLIES TO WATER MAINS AND WATER SERVICE CONNECTIONS.

WATER LINE CROSSING DETAIL
(N.T.S.)

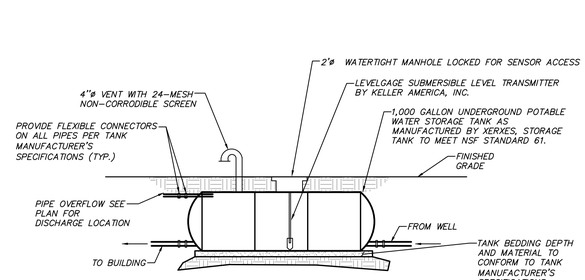


WELL PUMP CONTROL AND ALARM LEVEL SCHEMATIC
(N.T.S.)

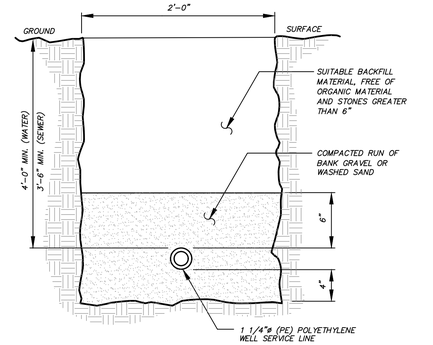


Notes:
1. This layout is schematic only.
2. All components are to be installed according to manufacturer's specifications.
3. The UV unit and all piping is to be disinfected upon completion of work in accordance with the latest revision of AWWA Standard C651-05 (except for section 4.4.2). Acceptable bacteriological results must be submitted and accepted by the Putnam County Department of Health prior to the utilization of water system.
4. Refer to the engineer's report and manufacturers specifications for detailed information regarding the UV system.
5. UV System shall be model Hallett 30 by UV Pure. UV shall have a 27.4 GPM capacity, a 27.4 GPM flow restrictor, intensity meter and solenoid valve with auromatic shutoff when required intensity is not met. The UV bulb shall be replaced once a year at a minimum. a spare bulb shall be provided.
6. The water service room is located in the northwest corner of the building and is approximately 15' x 8'. Adequate space is provided in the water service room for the installation and maintenance of the proposed water system components, including UV lamp replacement.
7. A smooth nose sample tap shall be provided at every low point in the mechanical room for draining purposes.
8. The pipes interior to the mechanical room shall be color coded as follows:
   - Water lines prior to UV – olive green
   - Booster pump supply and discharge line – dark blue
9. Water system installer shall take water samples from the proposed domestic water well to test for the following:
   a. Turbidity
   b. UV absorbance
   c. UV transmittance
   d. Hardness
10. No water system improvements shall be installed until UV absorbance, UV transmittance and hardness of the raw water from the well are tested. Should testing warrant a different treatment than what is shown hereon, an amended approval from the PCDOH will be required.
11. All components in contact with water to be NSF 61.

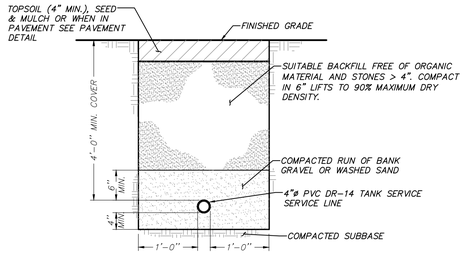
DOMESTIC WATER SERVICE MECHANICAL ROOM SCHEMATIC LAYOUT
(N.T.S.)



1,000 GALLON POTABLE WATER STORAGE TANK DETAIL
(NTS)



WATER SERVICE LINE TRENCH DETAIL
(N.T.S.)



TANK SERVICE TRENCH LINE DETAIL
(N.T.S.)

NO.	DATE	REVISION	BY
8	1-27-21	REVISED PER PCDHF COMMENTS	MEU
7	12-7-20	REVISED PER TOWN & PCDHF COMMENTS	JWM
6	9-2-20	REVISED FOR PCDOH SUBMISSION	CBZ
5	8-13-20	ISSUED FOR BID	JWM
4	2-18-20	REVISED PER TOWN COMMENTS	GM
3	1-21-20	REVISED PER TOWN COMMENTS	GM
2	9-13-19	REVISED PER TOWN COMMENTS	MEU
1	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM

INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

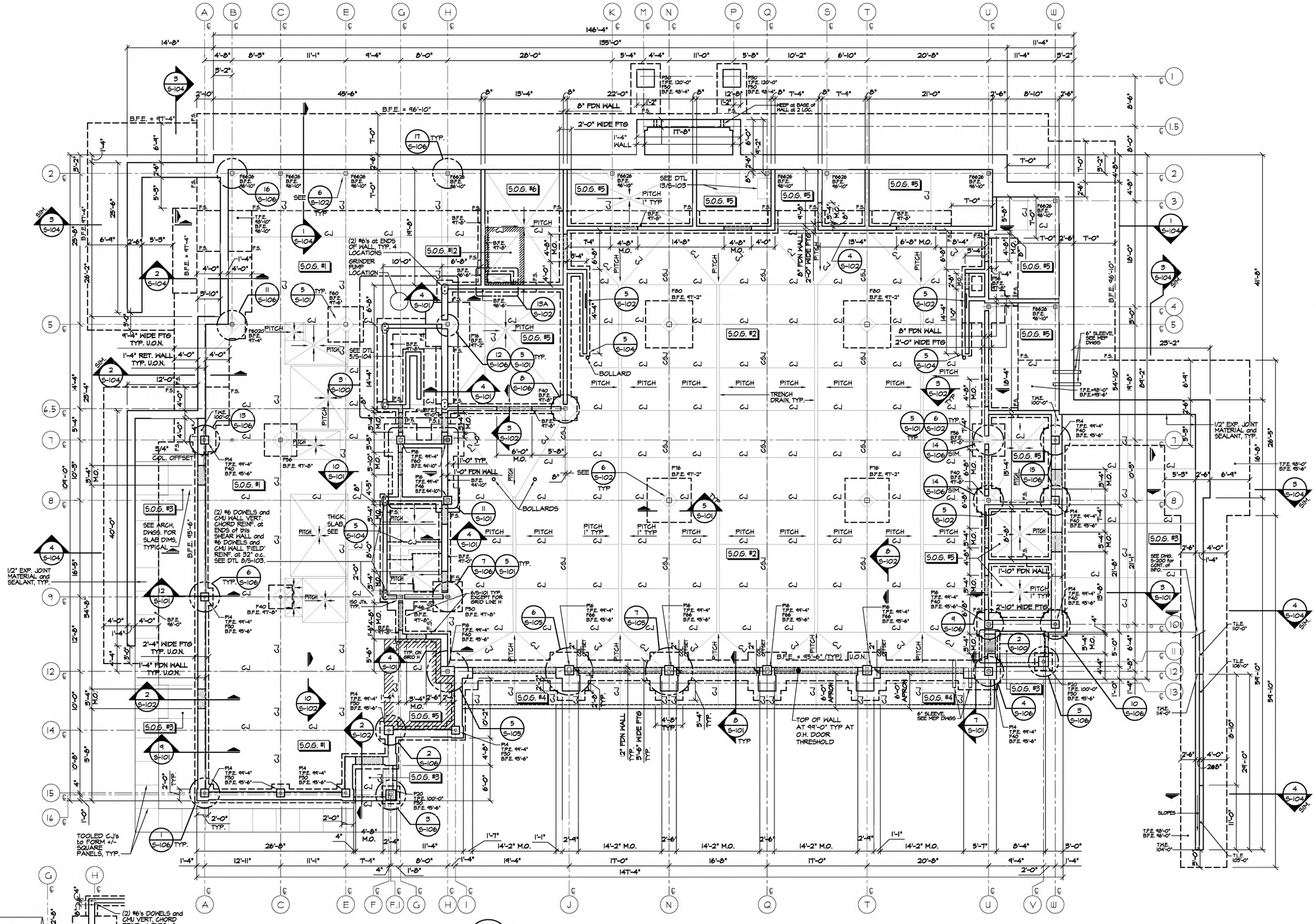
PROJECT:
PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS
OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

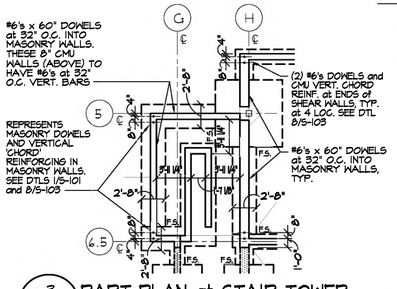
DRAWING:
SSTS & WELL DETAILS

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO.	SHEET
DATE	7-29-19	DRAWN BY	M.E.U.	HD-3	11 / 11
SCALE	AS SHOWN	CHECKED BY	E.M.S.		

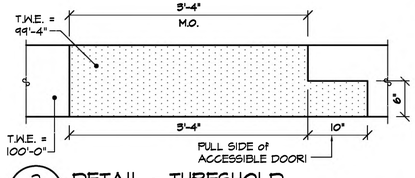
ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

Z:\E\09105\00\07-HD-2 - 3.dwg, 1/27/2021 10:59:09 AM, mutter, 1:1





3 / S-100 PART PLAN at STAIR TOWER
SCALE: 1/8" = 1'-0"



2 / S-100 DETAIL - THRESHOLD
SCALE: 1" = 1'-0"

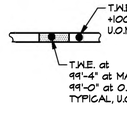
1 / S-100 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

EXCAVATION

SUPPORT OF EXCAVATION (SOE) IS NOT PART OF THESE CONSTRUCTION DOCUMENTS. ANY EXCAVATION THAT REQUIRES SHORING, STABILIZATION and or UNDERPINNING METHODS SHALL BE DESIGNED BY AN ENGINEER HIRED BY THE GC or THE CONTRACTOR WHOSE RESPONSIBILITY IS THE EXCAVATION WORK.

NOTES:

1. NEW FIRST FLOOR ELEVATION = 100'-0" AND CORRESPONDS TO DATUM ELEV. 630.00'
2. B.F.E. DENOTES BOTTOM OF FOOTING ELEVATION.
3. T.F.E. DENOTES TOP OF PIER ELEVATION. SEE DRAWINGS S-105 and S-106 FOR PIER DETAILS.
4. T.W.E. DENOTES TOP OF WALL ELEVATION.
5. T.F.E. - DENOTES TOP OF FOOTING ELEVATION
6. F.D. DENOTES FLOOR DRAIN. MINIMUM PITCH TO FLOOR DRAINS IS 1 INCH IN 10 FEET.
7. SEE DETAIL 10/S-102 FOR BELOW SLAB PREP.
8. SEE ALSO SOILS REPORT BY DANIEL G. LOUCKS, P.E. DATED 15 JULY 2009. FOR FOUNDATION PREP WORK.
9. FOR LOC OF TRENCH and FLOOR DRAINS AND LIMITS OF SLOPED SLABS - SEE ARCH. DWGS.
10. F/M 1 F.O.M. DENOTES FACE OF WALL.
11. SEE DRAWINGS FOR 'TYPICAL DETAILS' NOT REFERENCED ON PLAN.
12. SEE E SERIES AND P SERIES DRAWINGS FOR THROUGH FOUNDATION WALL OR BELOW FOOTING SLEEVE LOCATIONS.FOUNDATION WALL SLEEVES, SEE DETAIL 7/S-102, MAY OR MAY NOT REQUIRE A FOOTING STEP.
13. SEE DRAWING S-SCHED FOR SLAB, PIER AND FOOTING SCHEDULES.
14. F.S. DENOTES FOOTING STEP. SEE DETAIL 12/S-102
15. CSJ - DENOTES A SLAB CONSTRUCTION JOINT, SEE DETAIL 9/S-102. CJ's IN APRONS ARE TOOLED JOINTS
16. CJ - DENOTES A SLAB CONTROL JOINT, SEE DETAIL 10/S-102
17. SEE DRAWING S-200 FOR GENERAL MASONRY REINFORCING NOTES.



N

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

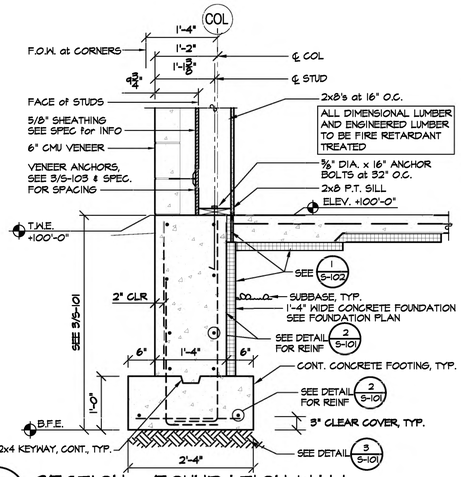
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

FOUNDATION PLAN

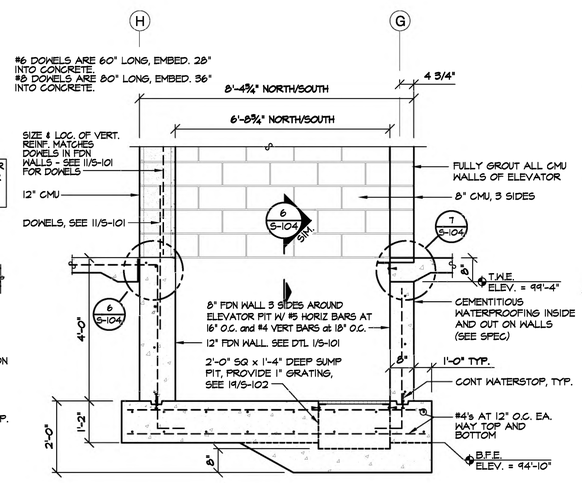
SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

S-100



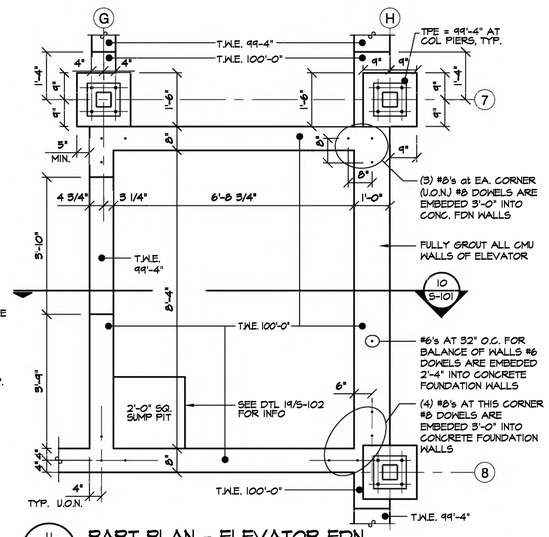
9 S-101 **SECTION - FOUNDATION WALL**

SCALE: 3/4" = 1'-0"



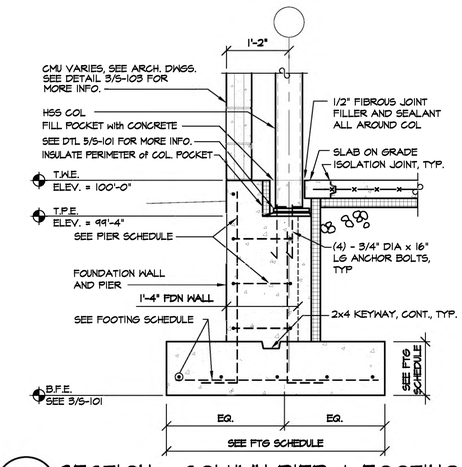
10 S-101 **SECTION THROUGH ELEVATOR PIT**

SCALE: 1/2" = 1'-0"



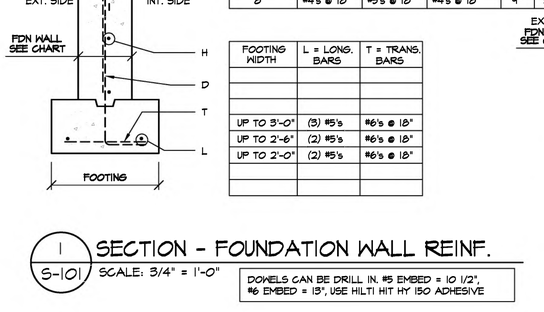
11 S-101 **PART PLAN - ELEVATOR FDN**

SCALE: 1/2" = 1'-0"



12 S-101 **SECTION - COLUMN PIER & FOOTING**

SCALE: 3/4" = 1'-0"

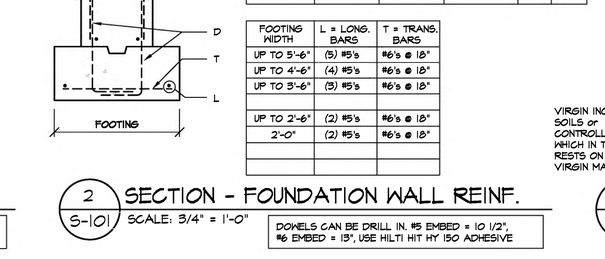


5 S-101 **SECTION - INTERIOR COLUMN FOOTING**

SCALE: 1" = 1'-0"

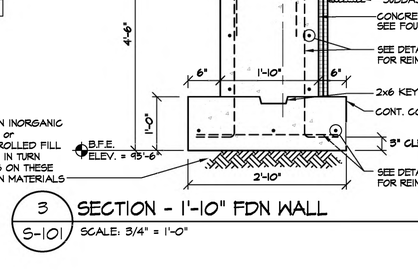
CONCRETE FDN WALL CAN BE BUILT WITH 8" CMU TO FACILITATE CONDUIT, GROUT ALL COURSES. VERT REINF = #5's at 40" o.c. & HORIZ. JT. REINF.

SEE DTL 3/S-100 FOR CMU WALL REINFORCING DIFFERENT THAT WHAT IS SHOWN HERE



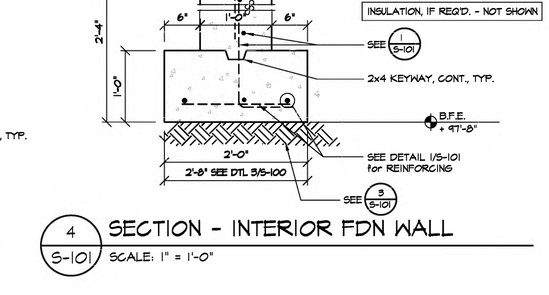
6 S-101 **SECTION - 8" INTERIOR FDN WALL**

SCALE: 3/4" = 1'-0"



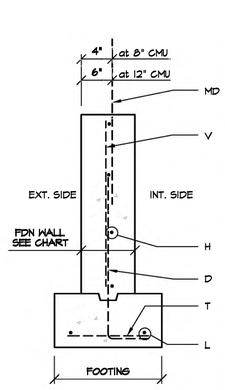
7 S-101 **DETAIL - TYPICAL BOLLARD**

SCALE: N.T.S.



8 S-101 **SECTION - O.H. DOOR APRON**

SCALE: N.T.S.



MD = MASONRY DOWELS (WHEN APPLICABLE)
#5's x 40" LONG (15" EMBED.)
#6's x 60" LONG (20" EMBED.)
1. MATCH SIZE AND SPACING OF VERTICAL BARS IN CMU WALL. 2. LOCATE "MD" DOWEL IN CENTER OF CMU WALL, U.O.N.

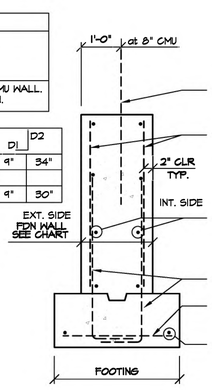
FDN WALL WIDTH	V = VERT. BARS	H = HORIZ. BARS	D = BENT BAR DOWELS	D1	D2
12"	#5's @ 18"	#6's @ 18"	#5's @ 18"	9"	34"
8"	#4's @ 18"	#5's @ 18"	#4's @ 18"	9"	30"

FOOTING WIDTH	L = LONG. BARS	T = TRANS. BARS
UP TO 3'-0"	(3) #5's	#6's @ 18"
UP TO 2'-6"	(2) #5's	#6's @ 18"
UP TO 2'-0"	(2) #5's	#6's @ 18"

1 S-101 **SECTION - FOUNDATION WALL REINF.**

SCALE: 3/4" = 1'-0"

DOWELS CAN BE DRILL IN. #5 EMBED = 10 1/2", #6 EMBED = 13", USE HILTI HIT HY 150 ADHESIVE



MD = MASONRY DOWELS (WHEN APPLICABLE)
#5's x 40" LONG (15" EMBED.)
#6's x 60" LONG (20" EMBED.)
1. MATCH SIZE AND SPACING OF VERTICAL BARS IN CMU WALL. 2. LOCATE "MD" DOWEL IN CENTER OF CMU WALL, U.O.N.

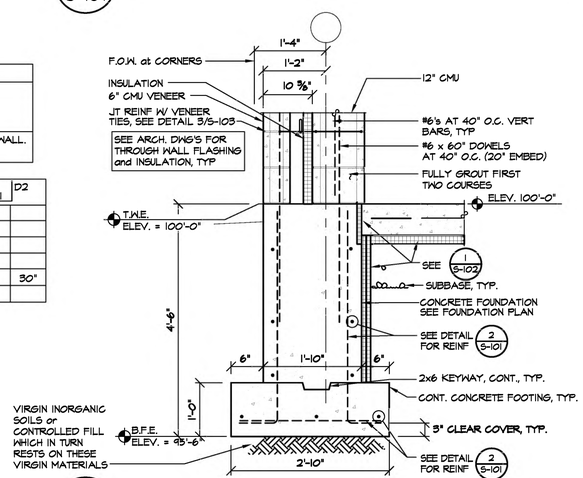
FDN WALL WIDTH	V = VERT. BARS (E.F.)	H = HORIZ. BARS (E.F.)	D = BENT BAR DOWELS (E.F.)	D1	D2
15"	#4's @ 18"	#5's @ 18"	#4's @ 18"	9"	30"

FOOTING WIDTH	L = LONG. BARS	T = TRANS. BARS
UP TO 5'-6"	(5) #5's	#6's @ 18"
UP TO 4'-6"	(4) #5's	#6's @ 18"
UP TO 3'-6"	(3) #5's	#6's @ 18"
UP TO 2'-6"	(2) #5's	#6's @ 18"
2'-0"	(2) #5's	#6's @ 18"

2 S-101 **SECTION - FOUNDATION WALL REINF.**

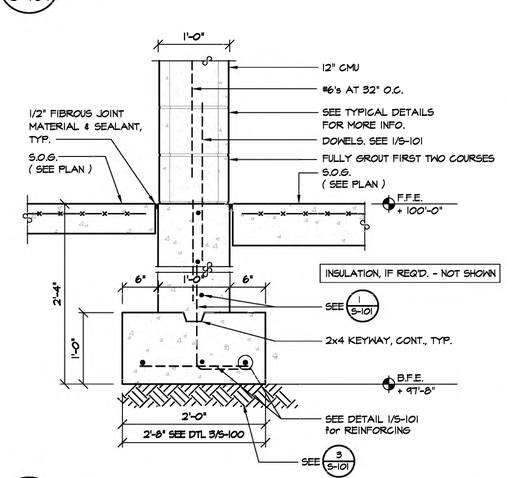
SCALE: 3/4" = 1'-0"

DOWELS CAN BE DRILL IN. #5 EMBED = 10 1/2", #6 EMBED = 13", USE HILTI HIT HY 150 ADHESIVE



3 S-101 **SECTION - 1'-10" FDN WALL**

SCALE: 3/4" = 1'-0"



4 S-101 **SECTION - INTERIOR FDN WALL**

SCALE: 1" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

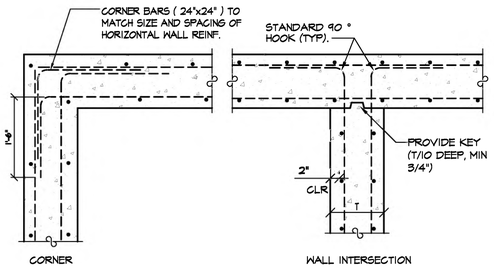
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

FOUNDATION SECTIONS & DETAILS

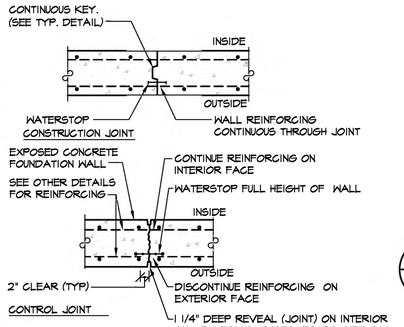
SCALE: AS NOTED
DWG. BY: JC/CAM
DWG. DATE: 08/14/2020
DWG. ID#:

S-101



16 S-102 TYPICAL CONCRETE WALL DETAILS

SCALE: 3/4" = 1'-0"



17 S-102 TYPICAL FOUNDATION WALL JOINTS

SCALE: 3/4" = 1'-0"

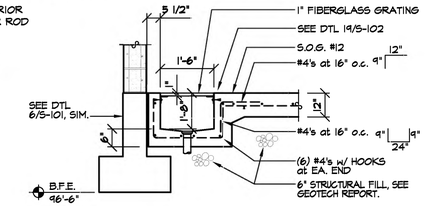
NOTE:

1. CONSTRUCTION JOINTS ARE NOT SHOWN ON PLANS.
2. LOCATE CONTROL JOINTS AT 30'-0" O.C. IN FOUNDATION WALLS. CONTROL JOINTS ARE REQUIRED WHERE FOUNDATION WALLS ARE VISIBLE AND LOCATIONS TO BE APPROVED BY ARCHITECT.
3. WATERSTOPS REQUIRED WHEN SOIL IS BACKFILLED ON ONE SIDE OF WALL ONLY.

	Min. Cover
A.) Concrete Cast Against And Permanently Exposed to Earth	3"
B.) Concrete Exposed to Earth or Weather:	
#6 Through #18	2"
#5, W31 or D31 Wire, and Smaller	1 1/2"
C.) Concrete Not Exposed to Weather or in Contact with the Ground:	
Slabs, Walls, Joists:	
#14 and #18	1 1/2"
#11 and Smaller	3/4"

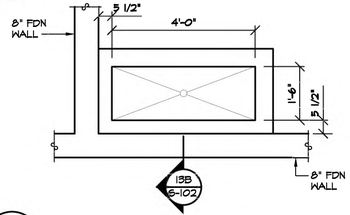
18 S-102 MINIMUM CONCRETE COVERAGES

SCALE: 3/4" = 1'-0"



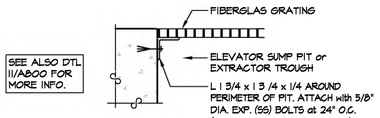
13B S-102 SECTION - EXTRACTOR TROUGH

SCALE: 1/2" = 1'-0"



13A S-102 PART PLAN - EXTRACTOR TROUGH

SCALE: 1/2" = 1'-0"

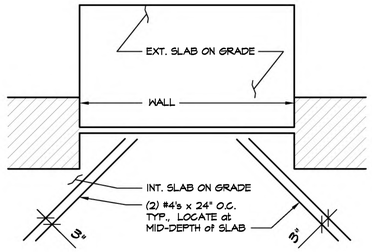


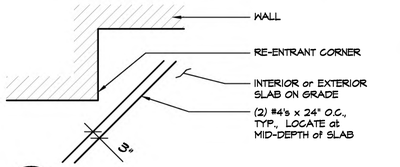
SEE ALSO DTL 11/A800 FOR MORE INFO.

NOTE:
GRATING: MS-R-100 FIBERGLAS GRATING
(1" GRID HEIGHT, 1" x 4" RECTANGULAR GRID)

19 S-102 SECTION - SUMP PIT or EXTRACTOR TROUGH

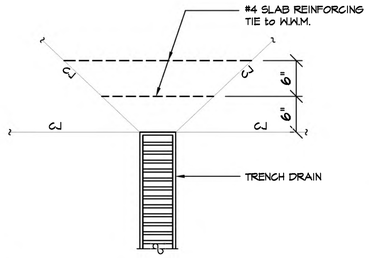
SCALE: 1 1/2" = 1'-0"





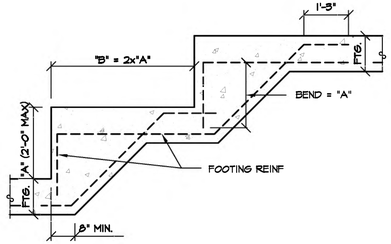
20 S-102 TYPICAL PLAN DETAILS - CONC. SLAB REINFORCING

SCALE: 1" = 1'-0"



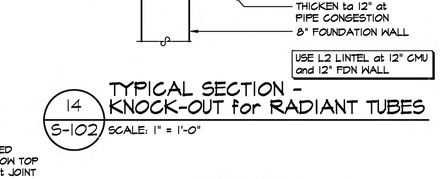
11 S-102 DETAIL - SLAB REINFORCING

SCALE: 1" = 1'-0"



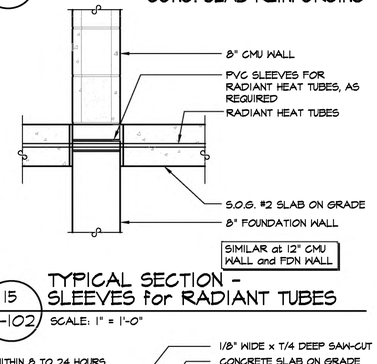
12 S-102 TYPICAL - FOOTING STEP

NO SCALE



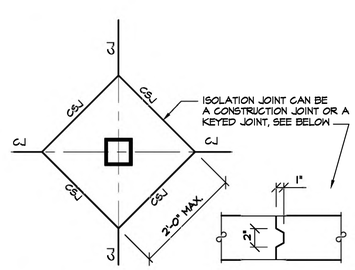
14 S-102 TYPICAL SECTION - KNOCK-OUT for RADIANT TUBES

SCALE: 1" = 1'-0"



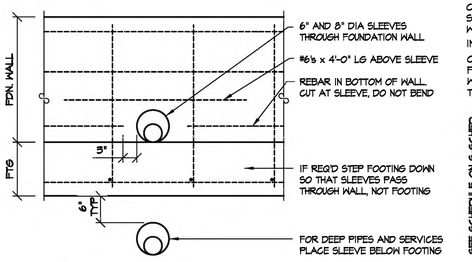
15 S-102 TYPICAL SECTION - SLEEVES for RADIANT TUBES

SCALE: 1" = 1'-0"



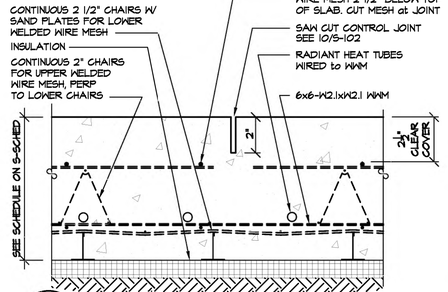
6 S-102 DETAIL - COL ISOLATION JOINT

SCALE: 3/4" = 1'-0"



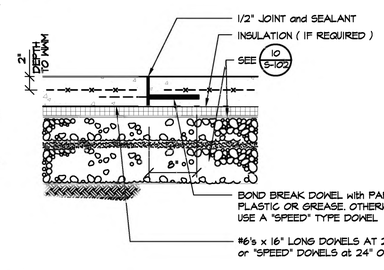
7 S-102 TYP. - ELEVATION OF FOUNDATION WALL WITH SLEEVE

SCALE: 3/4" = 1'-0"



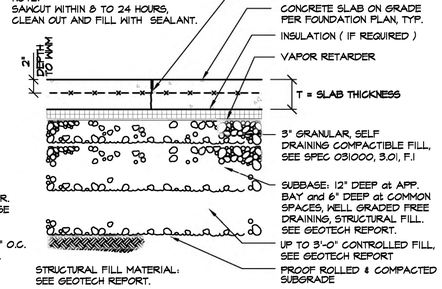
8 S-102 SECTION - APPARATUS BAY SLAB

SCALE: 3" = 1'-0"



9 S-102 DETAIL - CONSTRUCTION JOINT

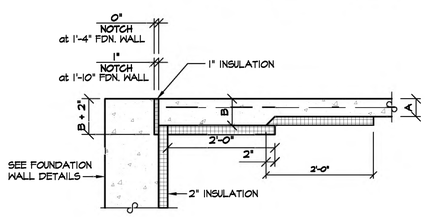
SCALE: 1" = 1'-0" "CSJ" ON PLAN, NOT ALL ARE SHOWN



10 S-102 DETAIL - CUT CONTROL JOINT

SCALE: 1" = 1'-0" "CJ" ON PLAN

SLAB	A	B
S.O.G. #1	SEE S-SCHED-1	A+2"
S.O.G. #2	SEE S-SCHED-1	A

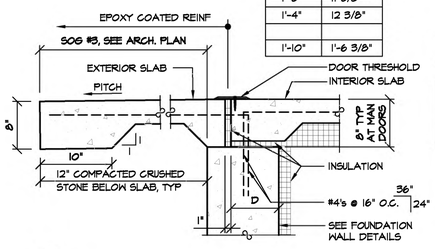


1 S-102 SECTION - SLAB HAUNCH

SCALE: 3/4" = 1'-0"

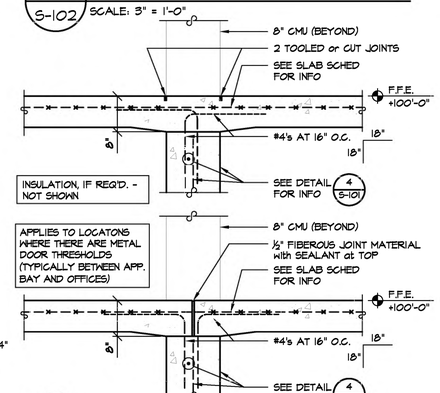
NOTE: AT EXTERIOR WALL/SLAB ON GRADE

FDN	D
1'-0"	8 3/8"
1'-3"	11 3/8"
1'-4"	12 3/8"
1'-10"	1'-6 3/8"



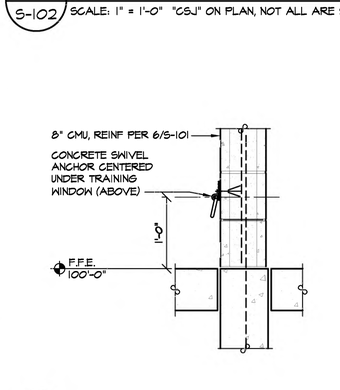
2 S-102 SECTION - FDN WALL THRESHOLD

SCALE: 1" = 1'-0"



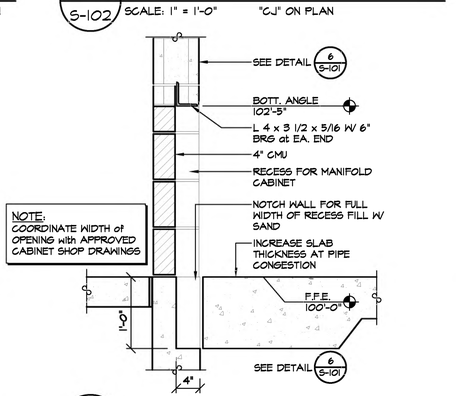
3 S-102 SECTION - INTERIOR THRESHOLD

SCALE: 3/4" = 1'-0"



4 S-102 SECTION - LADDER TIE-OFF ANCHOR

SCALE: 1" = 1'-0"



5 S-102 SECTION - WALL AT MANIFOLD CABINET

SCALE: 1" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

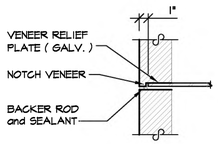
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

SLAB DETAILS

SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID:

S-102

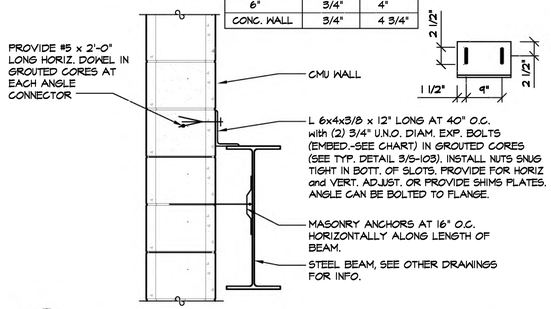


9 S-103 **DETAIL - VENEER RELIEF**

SCALE: 1 1/2" = 1'-0"

SEE 3/S-103, A-402 and A-421 for VENEER ANCHOR INFO.

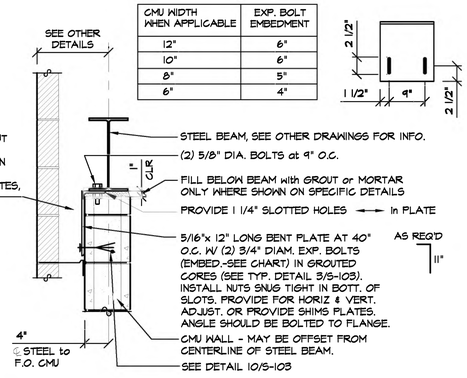
CMU WIDTH WHEN APPLICABLE	EXP. BOLT DIAMETER	EXP. BOLT EMBEDMENT
12"	3/4"	6"
10"	3/4"	6"
8"	3/4"	5"
6"	3/4"	4"
CONC. WALL	3/4"	4 3/4"



10 S-103 **TYPICAL DETAIL - STEEL TO CMU CONNECTION (SIM. at CONCRETE WALLS)**

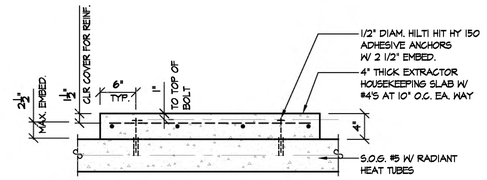
SCALE: 1" = 1'-0"

CMU WIDTH WHEN APPLICABLE	EXP. BOLT EMBEDMENT
12"	6"
10"	6"
8"	5"
6"	4"



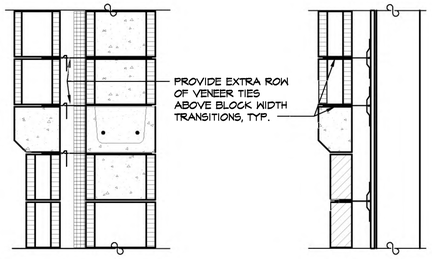
11 S-103 **TYPICAL DETAIL - STEEL TO CMU CONNECTION**

SCALE: 1" = 1'-0"



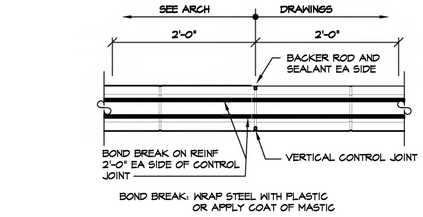
13 S-103 **SECTION - HOUSEKEEPING PAD**

SCALE: 1" = 1'-0"



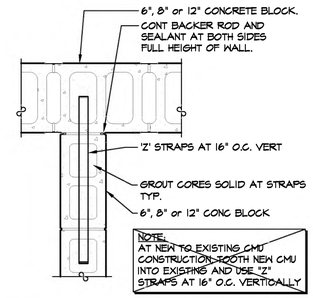
12 S-103 **TYPICAL DETAIL - VENEEER TIES**

SCALE: 1" = 1'-0"



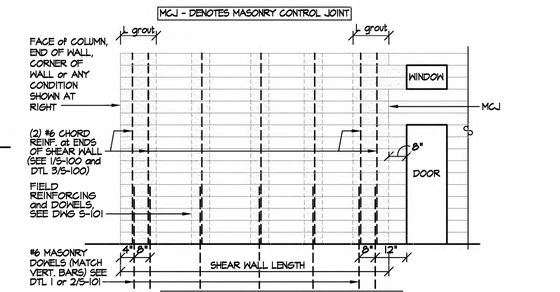
6A S-103 **TYPICAL PLAN - CMU BOND BEAM AT VERTICAL CONTROL JOINT**

SCALE: 1" = 1'-0"

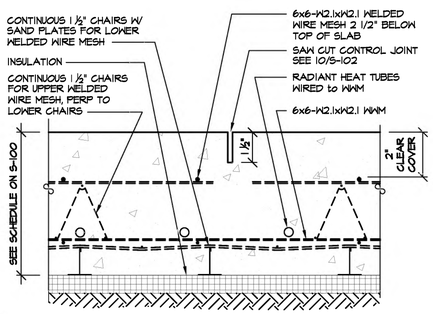


7A S-103 **TYPICAL PLAN - CMU BLOCK INTER-SECTION CONN. DETAIL**

SCALE: 1" = 1'-0"



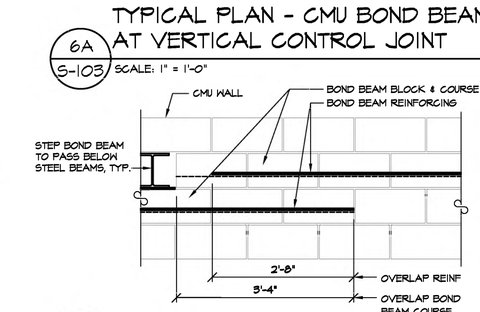
SHEAR WALL GROUTING at EXTERIOR and INTERIOR WALLS	
SHEAR WALL LENGTH	GROUT LENGTH L grout
LESS THAN or = 12'-0"	16"
LESS THAN or = 16'-0"	24"
LESS THAN or = 26'-0"	32"
LESS THAN or = 30'-0"	40"



5 S-103 **SECTION - 5" SLAB with RADIANT HEAT**

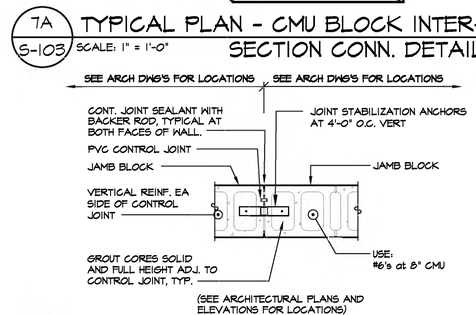
SCALE: 3" = 1'-0"

S.O.G. #5



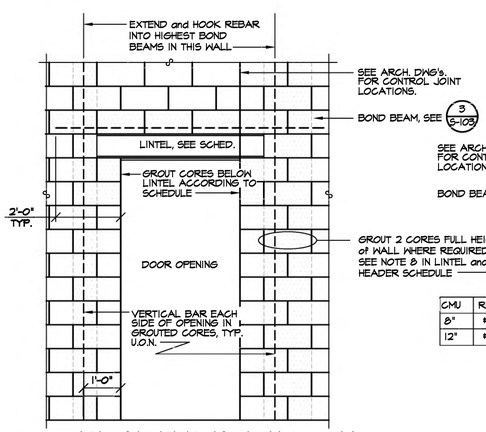
6B S-103 **TYPICAL ELEVATION - CMU STEPPED BOND BEAM**

SCALE: 1" = 1'-0" (IF REQUIRED)



7B S-103 **TYPICAL PLAN - CMU VERTICAL CONTROL JOINT**

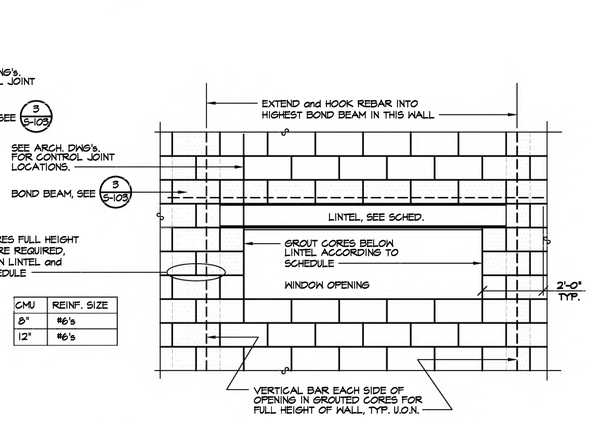
SCALE: 1" = 1'-0"



CMU	REINF. SIZE
8"	#6's
12"	#6's

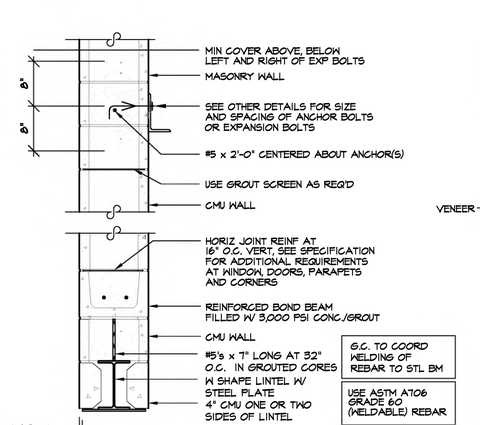
1 S-103 **TYPICAL ELEVATION - CMU REINFORCING AT DOOR OPENINGS**

SCALE: 1/2" = 1'-0"



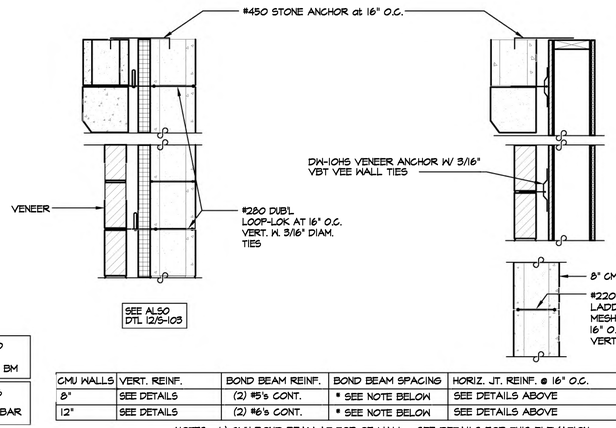
2 S-103 **TYPICAL ELEVATION - CMU REINFORCING AT WINDOW or LOUVER OPENINGS**

SCALE: 1/2" = 1'-0"



3 S-103 **TYPICAL SECTION - CMU WALLS REINFORCING and GROUTING**

SCALE: 1" = 1'-0"



SEE ALSO DTL 12/S-103

CMU WALLS	VERT. REINF.	BOND BEAM REINF.	BOND BEAM SPACING	HORIZ. JT. REINF. @ 16" O.C.
8"	SEE DETAILS	(2) #5's CONT.	* SEE NOTE BELOW	SEE DETAILS ABOVE
12"	SEE DETAILS	(2) #6's CONT.	* SEE NOTE BELOW	SEE DETAILS ABOVE

NOTES: 1.) CMU BOND BEAM AT TOP OF WALL - SEE DETAILS FOR THIS ELEVATION.
2.) USE PRODCUTS SHOWN (BY HOHMANN & BARNARD, INC.) OR APPROVED EQUAL.

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 765-4671 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

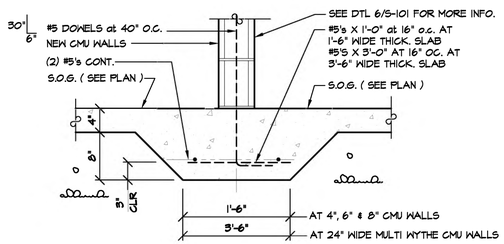
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

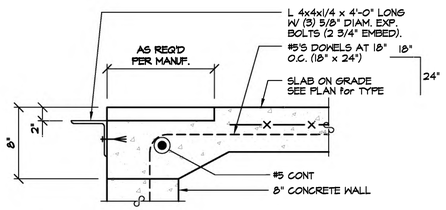
MASONRY DETAILS

SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

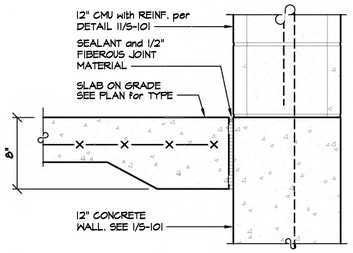
S-103



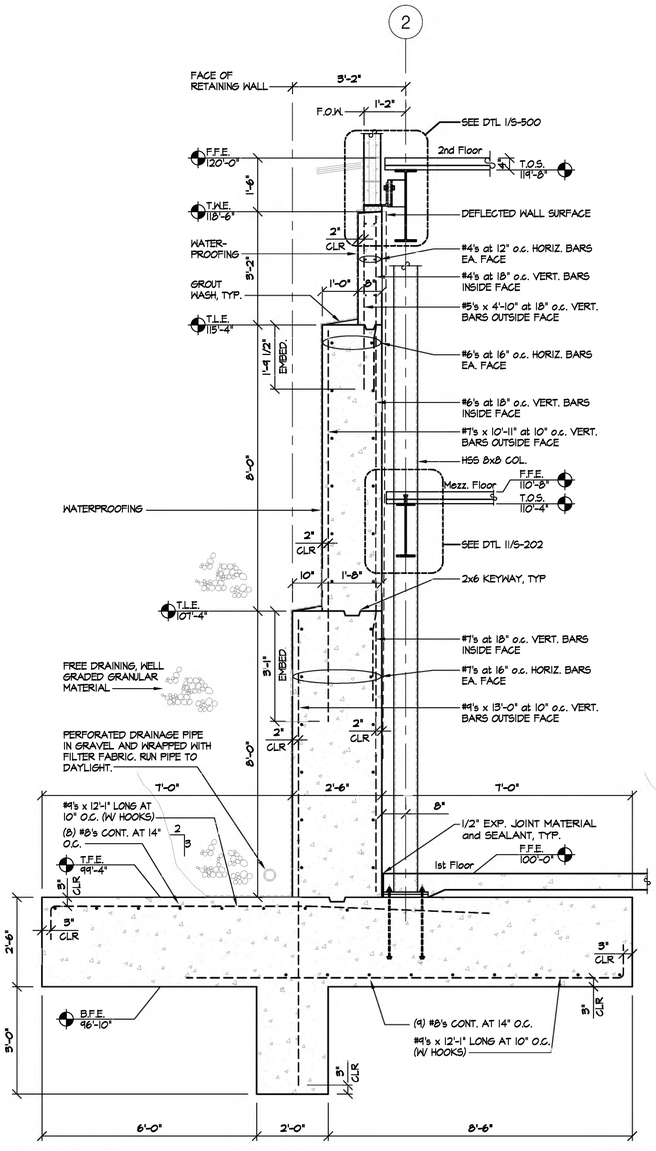
5 S-104 **SECTION - THICKENED SLAB**
SCALE: 1" = 1'-0"



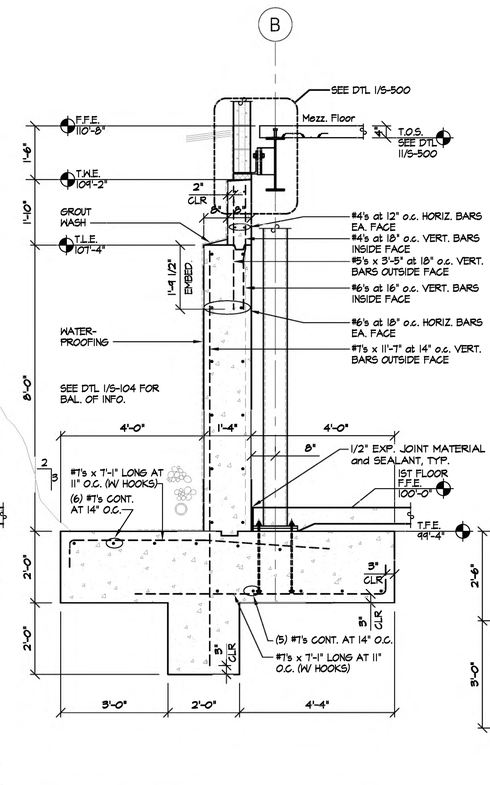
7 S-104 **DETAIL - ELEVATOR THRESHOLD**
SCALE: 1 1/2" = 1'-0"



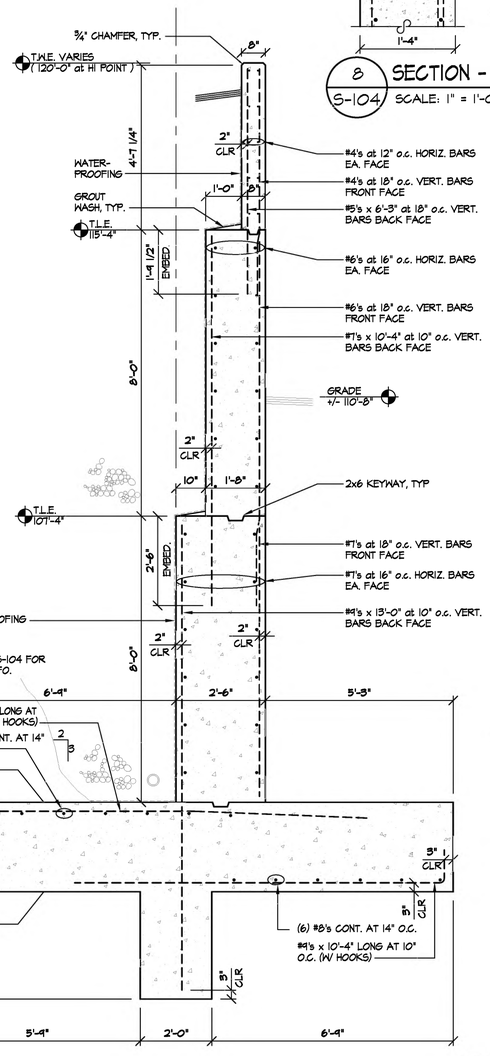
6 S-104 **DETAIL - ELEVATOR WALL**
SCALE: 1 1/2" = 1'-0"



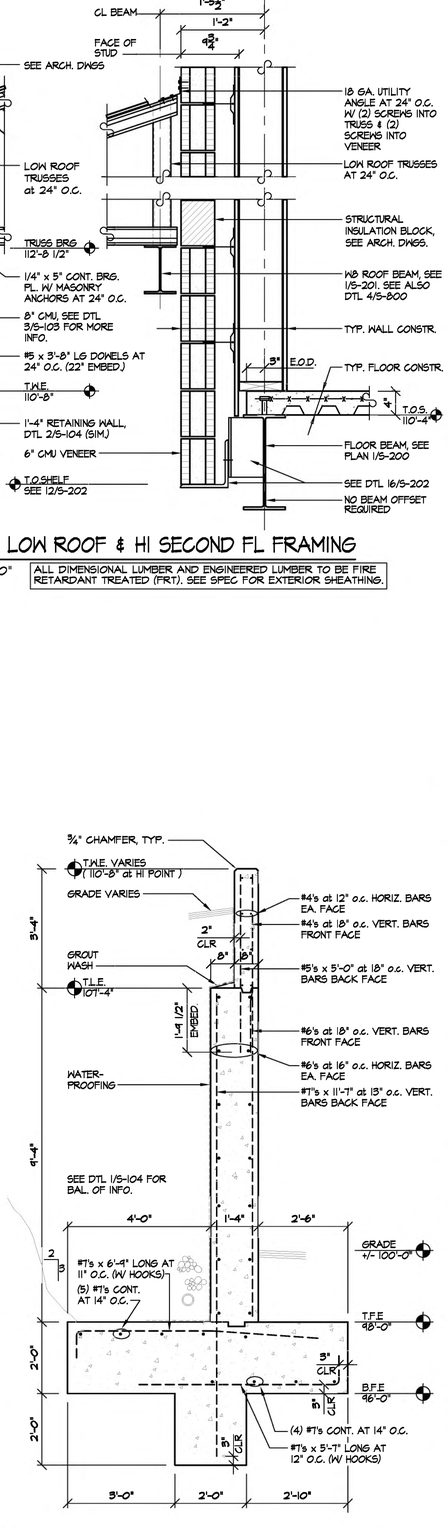
1 S-104 **SECTION - RETAINING WALL**
SCALE: 1/2" = 1'-0"



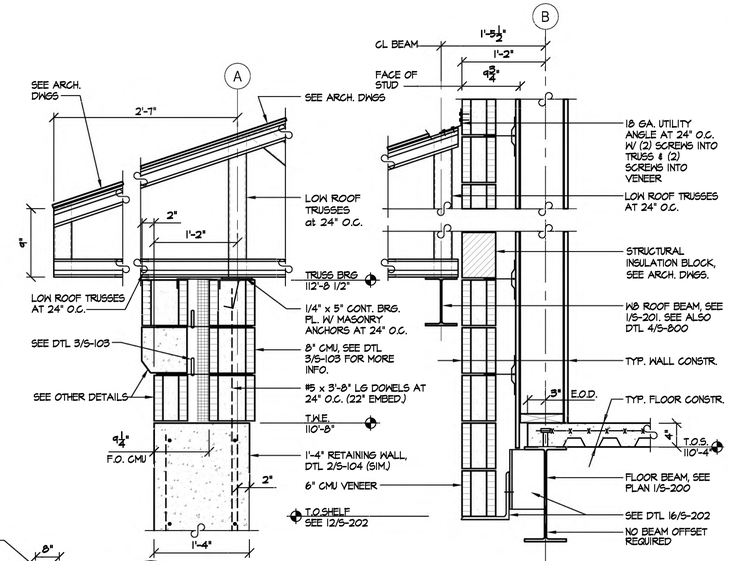
2 S-104 **SECTION - RETAINING WALL**
SCALE: 1/2" = 1'-0"



3 S-104 **SECTION - SITE RETAINING WALL**
SCALE: 1/2" = 1'-0"



4 S-104 **SECTION - SITE RETAINING WALL**
SCALE: 1/2" = 1'-0"



8 S-104 **SECTION - LOW ROOF & HI SECOND FL FRAMING**
SCALE: 1" = 1'-0"

ALL DIMENSIONAL LUMBER AND ENGINEERED LUMBER TO BE FIRE RETARDANT TREATED (FRT). SEE SPEC FOR EXTERIOR SHEATHING.

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

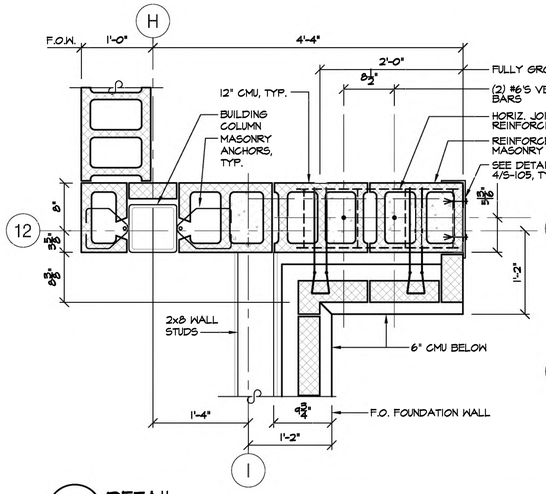
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

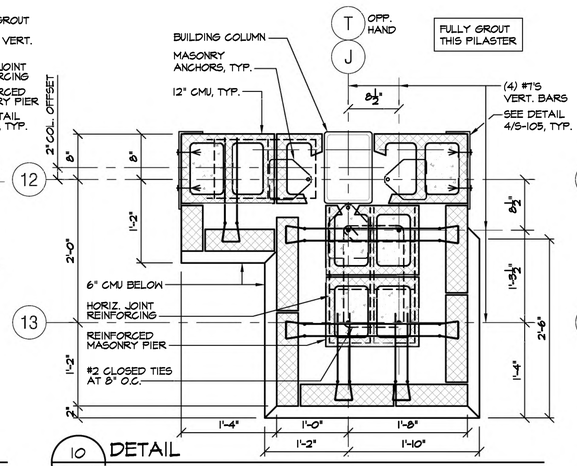
RETAINING WALL SECTIONS

SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

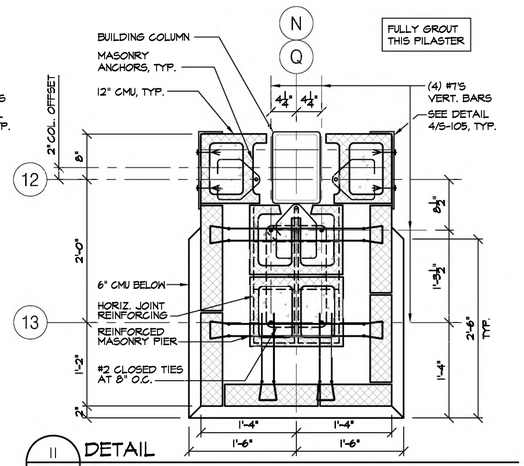
S-104



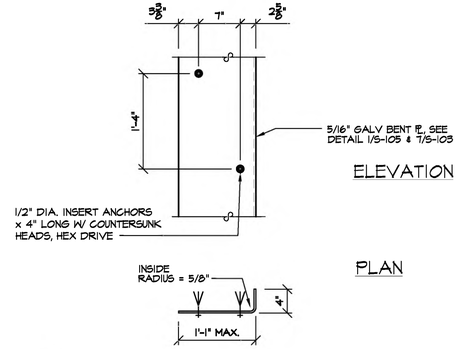
9 DETAIL
S-105 SCALE: 1" = 1'-0"



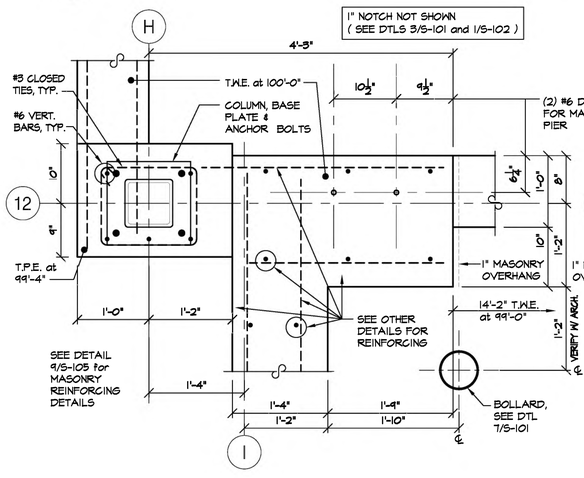
10 DETAIL
S-105 SCALE: 1" = 1'-0"



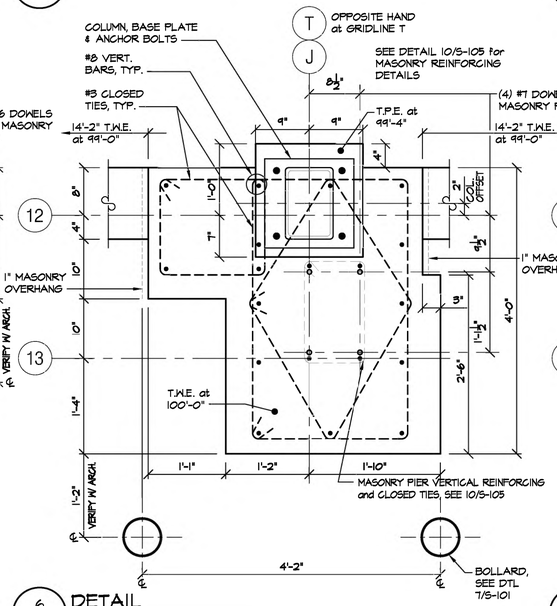
11 DETAIL
S-105 SCALE: 1" = 1'-0"



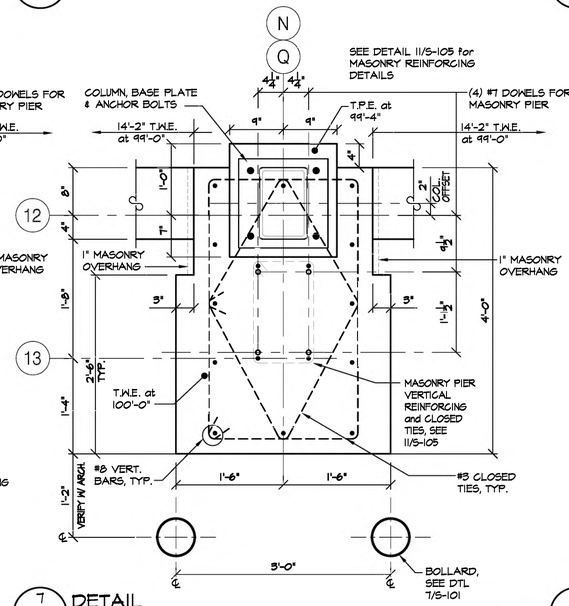
12 DETAIL - PILASTER JAMB PLATE
S-105 SCALE: 1" = 1'-0"



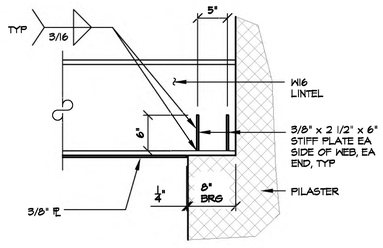
5 DETAIL
S-105 SCALE: 1" = 1'-0"
NOTE: o = MASONRY DOWEL, SEE DETAIL 2/S-101



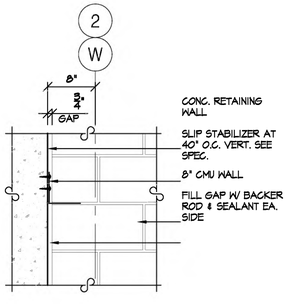
6 DETAIL
S-105 SCALE: 1" = 1'-0"
NOTE: o = MASONRY DOWEL, SEE DETAIL 2/S-101



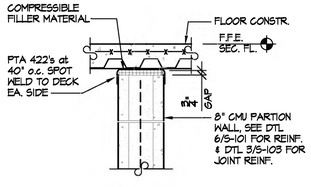
7 DETAIL
S-105 SCALE: 1" = 1'-0"
NOTE: o = MASONRY DOWEL, SEE DETAIL 2/S-101



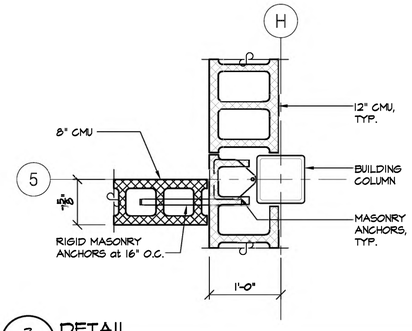
8 SECTION - O.H. DOOR LINTEL
S-105 SCALE: 1" = 1'-0"



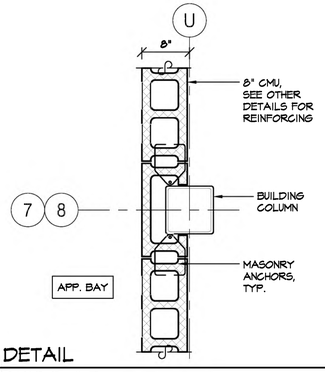
1 DETAIL - MOVEMENT JOINT
S-105 SCALE: 1" = 1'-0"



2 TYPICAL DETAIL - PARTITION TOP ANCHOR
S-105 SCALE: 1" = 1'-0"



3 DETAIL
S-105 SCALE: 1" = 1'-0"



4 DETAIL
S-105 SCALE: 1" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
CIVIL ENGINEERS

CRAIG A. MALONEY
STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

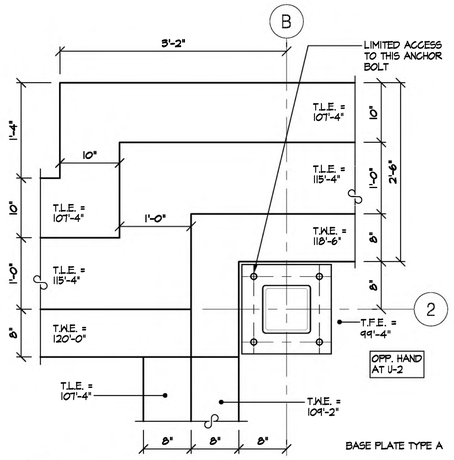
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

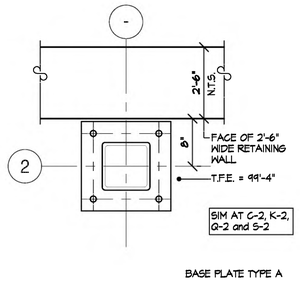
CONCRETE & MASONRY PIER DETAILS

SCALE: AS NOTED
DWG. BY: JC/CAM
DWG. DATE: 08/14/2020
DWG. ID#:

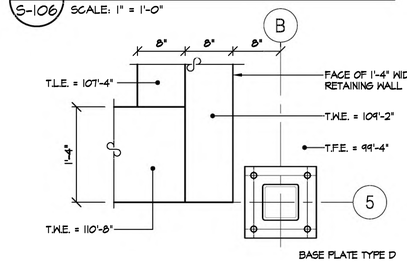
S-105



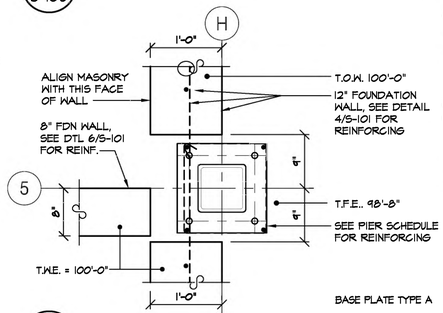
16 S-106 PLAN DETAIL - at COL B-2
SCALE: 1" = 1'-0"



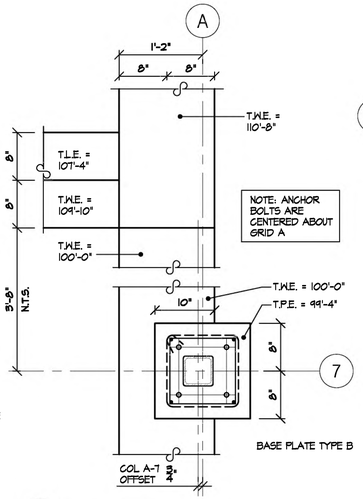
17 S-106 PLAN DETAIL - at COL H-2



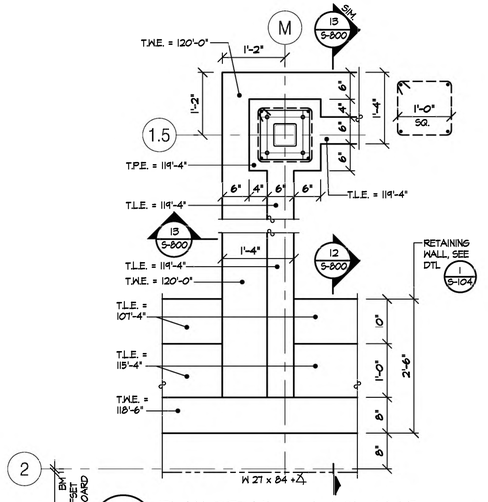
11 S-106 PLAN DETAIL - at COL. B-5
SCALE: 1" = 1'-0"



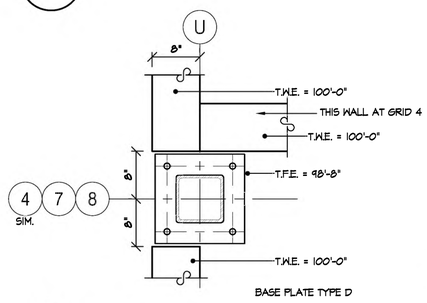
12 S-106 PLAN DETAIL - at COL. H-5
SCALE: 1" = 1'-0"



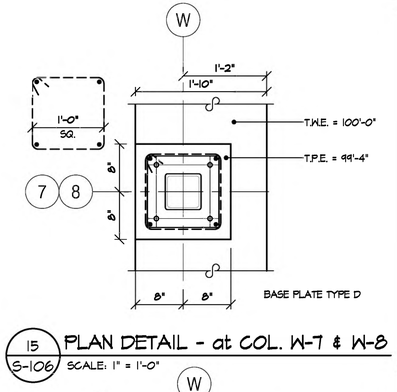
13 S-106 PLAN DETAIL - at COL. A-7
SCALE: 1" = 1'-0"



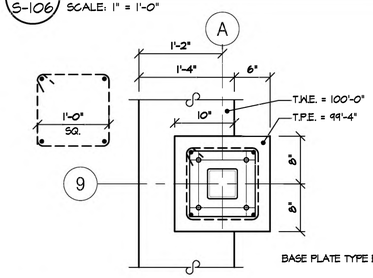
19 S-106 PLAN DETAIL - at COL. M-1.5
SCALE: 3/4" = 1'-0"



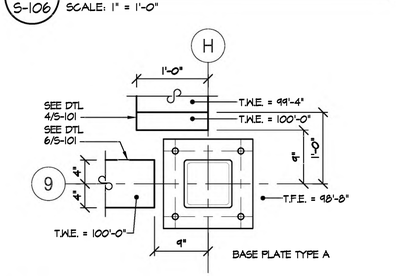
14 S-106 PLAN DETAIL - at COL. U-7 & U-8
SCALE: 1" = 1'-0"



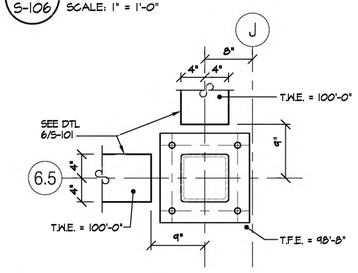
15 S-106 PLAN DETAIL - at COL. W-7 & W-8
SCALE: 1" = 1'-0"



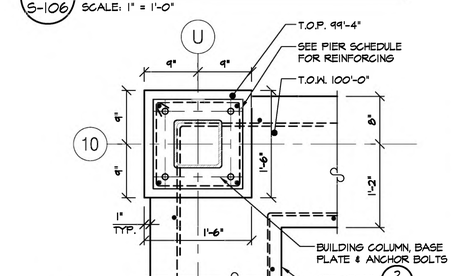
6 S-106 PLAN DETAIL - at COL. A-9
SCALE: 1" = 1'-0"



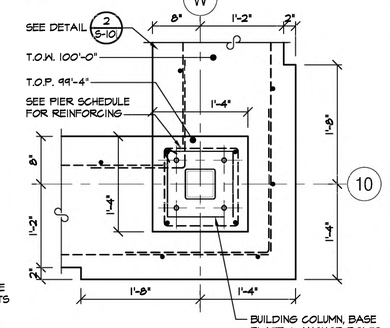
7 S-106 PLAN DETAIL - at COL. H-9
SCALE: 1" = 1'-0"



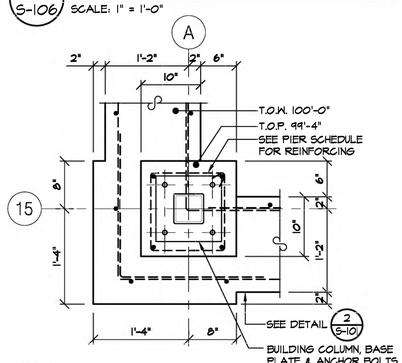
8 S-106 PLAN DETAIL - at COL. J-6.5
SCALE: 1" = 1'-0"



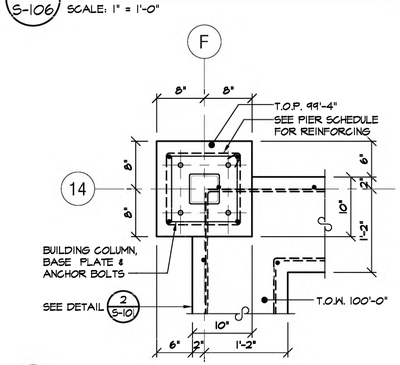
9 S-106 DETAIL
SCALE: 1" = 1'-0"



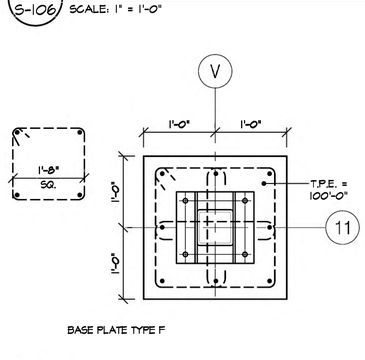
10 S-106 DETAIL
SCALE: 1" = 1'-0"



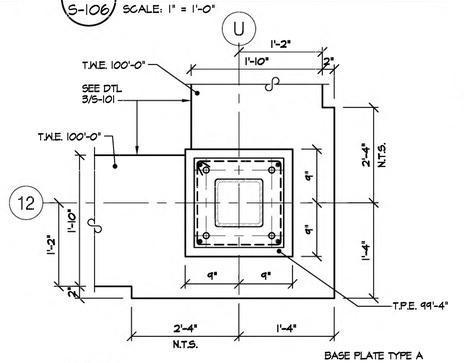
1 S-106 PLAN DETAIL - at COL. A-15
SCALE: 1" = 1'-0"



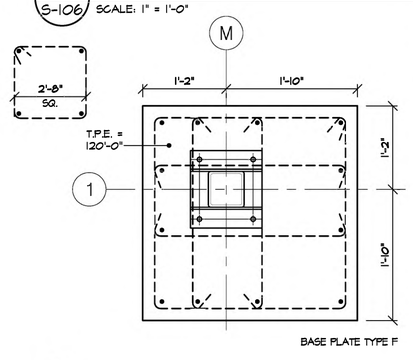
2 S-106 PLAN DETAIL - at COL. F-14
SCALE: 1" = 1'-0"



3 S-106 PLAN DETAIL - at COL. F.1-16 & V-11
SCALE: 1" = 1'-0"



4 S-106 PLAN DETAIL - at COL. U-12
SCALE: 1" = 1'-0"



5 S-106 PLAN DETAIL - at COL. M-1 & P-1
SCALE: 1" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 745-4571 FAX (518) 745-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

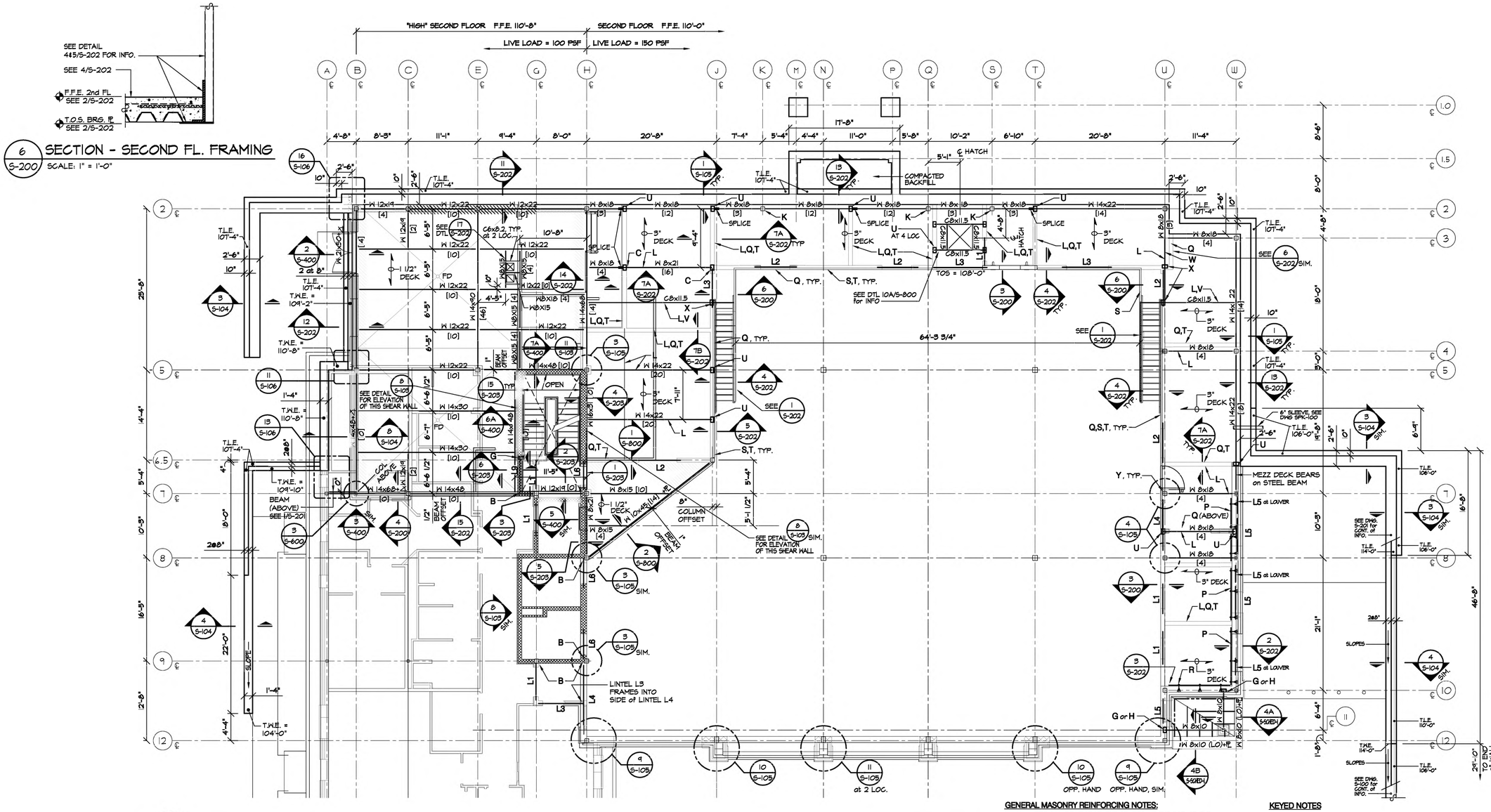
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

CONCRETE PIER DETAILS

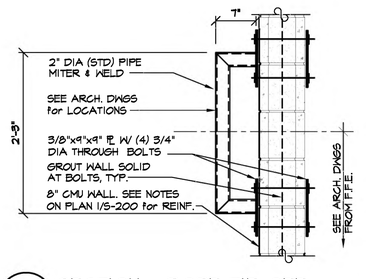
SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

S-106



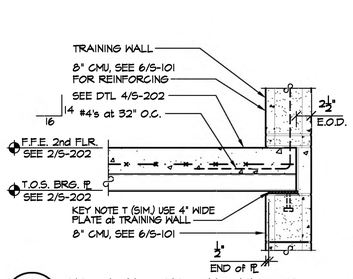
1 S-200 FRAMING PLAN - SECOND FLOOR

SCALE: 1/8" = 1'-0"



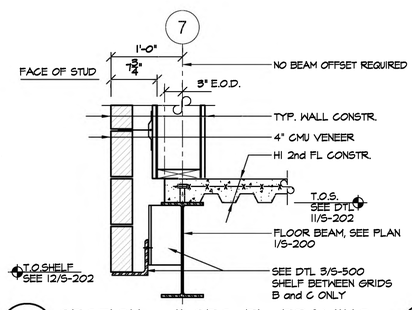
2 S-200 SECTION - ROPE TIE-OFF

SCALE: 1" = 1'-0"



3 S-200 SECTION - SECOND FLOOR

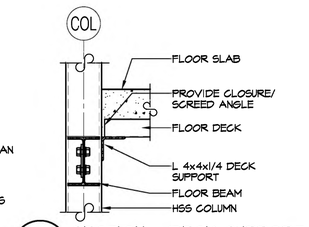
SCALE: 1" = 1'-0"



4 S-200 SECTION - HI SEC. FL. FRAMING

SCALE: 1" = 1'-0"

ALL DIMENSIONAL LUMBER and ENGINEERED LUMBER TO BE FIRE RETARDANT TREATED (FRT). SEE SPEC FOR EXTERIOR SHEATHING.



5 S-200 SECTION - DECK SUPPORT

SCALE: 1" = 1'-0"

GENERAL MASONRY REINFORCING NOTES:

1. ALL VERTICAL REINFORCEMENT STARTS AT THE TOP OF THE FOUNDATION AND EXTENDS THROUGH THE BOND BEAM NEAR THE TOP OF THE WALL. LOCATE REINFORCING IN CENTER OF BLOCK U.O.N.
2. CELLS WITH VERTICAL OR HORIZONTAL REINFORCING SHOULD BE FULLY GROUTED.
3. PROVIDE (1) #6 VERTICAL BAR IN CORNERS (WITHIN 8" OF CORNER) OF BUILDING AND GROUT WALL SOLID FOR 32" LATERALLY FROM THE CORNER IN BOTH DIRECTIONS, U.O.N. SEE ALSO DETAIL 9/S-103.
4. PROVIDE VERTICAL REINFORCING (SEE DETAILS 1/S-103 and 2/S-103) AT EACH SIDE OF DOOR AND WINDOW OPENINGS. JOINT REINFORCING SHOULD BE PROVIDED IN TWO COURSES ABOVE AND BELOW WINDOW OPENINGS, AND IN TWO COURSES ABOVE DOOR OPENINGS. EXTEND REINFORCING 24" PAST OPENING, REINFORCING IS NOT REQUIRED AROUND OPENINGS THAT DO NOT EXCEED 16" IN BOTH THE HORIZONTAL AND VERTICAL DIRECTIONS.
5. DEVELOPMENT LENGTHS: FOR #4 = 18 INCHES, #5 = 22.5 INCHES, #6 = 27 INCHES, #7 = 32 INCHES.
6. LAP LENGTHS: FOR #4 = 24 INCHES, #5 = 30 INCHES, #6 = 36 INCHES, #7 = 42 INCHES.
7. WHEN BENDING BARS BETWEEN CENTERS OF UNEQUAL BLOCK WALL THICKNESS, BEND SHOULD NOT EXCEED 1H:6V.
8. CLEAR DISTANCE BETWEEN REINFORCING AND MASONRY UNITS SHOULD BE 1/2 INCHES (MIN.).
9. CLEAR DISTANCE BETWEEN REINFORCING BARS SHOULD BE THE GREATER of 1" or BAR DIAMETER

NOTES - HIGH SECOND FLOOR:

1. HIGH SECOND FINISHED FLOOR = 110'-8" T.O.S. = 110'-4"
2. 1 1/2" DECK = 1 1/2" VLI, 18 GA. (GALV.) FLOOR DECK WITH 2 1/2", 3500 PSI CONCRETE TOPPING AND 6x6 - W2.0 x W2.0 MWM. TOTAL SLAB THICKNESS = 4" (MAX. DECK SPAN = 10'-6" (3 SPAN CONTINUOUS)).
3. SEE LINTEL & HEADER SCHEDULE FOR LINTEL INFORMATION.
4. **SHORE DECK DURING CONSTRUCTION FOR SPANS GREATER THAN 10'-6".**
5. [ ] DENOTES THE NUMBER OF 3/4" x 6" SHEAR STUDS EQUALLY SPACED ALONG BEAM, TYP. U.O.N. SEE DETAIL 3/S-201
6. FLOOR LIVE LOAD = 100 PSF

NOTES - SECOND FLOOR:

1. SECOND FINISHED FLOOR = 110'-0" DECK BEARING = 104'-4 1/2"
2. 3" DECK - 3" VLI PA, 18 GAUGE (GALV.) COMPOSITE DECK W/ 4 3/4", 3500 PSI, CONCRETE COVER W/ 6X6 - W4.0 X W4.0 MWM, T 3/4" TOTAL THICKNESS.
3. SEE LINTEL & HEADER SCHEDULE FOR LINTEL INFORMATION.
4. **SHORE DECK DURING CONSTRUCTION FOR SPANS GREATER THAN 9'-0".**
5. [ ] DENOTES THE NUMBER OF 3/4" x 6" SHEAR STUDS EQUALLY SPACED ALONG BEAM, TYP. U.O.N. SEE DETAIL 3/S-201
6. FLOOR LIVE LOAD = 100 PSF
7. FD - DENOTES FLOOR DRAIN

KEYED NOTES

- A O.H. DOOR LINTEL TO BEAR ON MASONRY (8" BEARING), SEE DTL 8/S-105
- B PROVIDE SUPPORT AT COLUMN (OR BEAM) FOR LINTEL(S)
- C 7/8" x 6" x 10" BEARING PLATE W/ (2) MASONRY ANCHORS, GROUT BELOW FOR 3 COURSES x 16" WIDE. SEE DTL 6B/S-103 FOR MORE INFO.
- D 12" CMU W/ #6 VERT. BARS AT 48" O.C. IN GROUTED CORES AND HORIZONTAL JOINT REINFORCING AT 16" O.C. VERTICALLY.
- E PILASTER W/ (4) - #6 VERT. BARS IN GROUTED CORES W/ #2 CLOSED TIES AT 8" O.C. VERTICALLY.
- F END PILASTER W/ (4) - #7 VERTICAL BARS IN GROUTED CORES.
- G 3/8" x 5" x 8" BEARING PLATE W/ (2) MASONRY ANCHORS. GROUT BELOW FOR 2 COURSES x 16" WIDE
- H PROVIDE HANGER FOR LOW ROOF or CANOPY ROOF BEAM. SEE DTL 10/S-700
- J HSS 4x4 PARAPET POSTS AT 8'-11" O.C. (MAX). SEE DTL 7/S-500
- K PROVIDE DECK SUPPORT ON FACE OF COLUMN, SEE DETAIL 5/S-200
- L CUT CONTROL JOINT IN SLAB ABOVE WALL OR BEAM (THAT IS BELOW).
- M ROPE TIE OFF FRAME. SEE DETAIL 2/S-200
- N W 8X18 ELEVATOR HOIST BEAM. T.O.S. = 153'-4"
- P L 6x4x3/8 CONTINUOUS LEDGER W/ 3/4" DIAM EXP BOLTS AT 16" O.C. (6 3/4" EMBED.). DECK BEARS ON THIS LEDGER.
- Q 8" CMU W/ #5 VERTICAL BARS AT 40" O.C. IN GROUTED CORES AND HORIZONTAL JOINT REINFORCING AT 16" O.C. VERTICALLY.
- R L 6x4x3/8 CONTINUOUS LEDGER W/ 3/4" DIAM EXP BOLTS AT 32" O.C. (6 3/4" EMBED.). DECK SPANS IS PARALLEL TO THIS LEDGER.
- S 5/16" BENT PLATE CONT. SLAB EDGE MEMBER, SEE DETAIL 4/S-202
- T 1/4" X 5" CONTINUOUS BEARING PLATE (ATOP 8" CMU WALLS, SEE NOTE Q) W/ MASONRY ANCHORS AT 32" O.C. SEE DETAILS 7A and 7B/S-202
- U 5/8" x 6" x 9" BEARING PLATE W/ (2) MASONRY ANCHORS, GROUT BELOW FOR 3 COURSES x 16" WIDE. SEE DTL. 6B/S-103 FOR MORE INFO.
- V C.B. CANTILEVERS TO SUPPORT STAIR STRINGERS
- W FLOOR DECK TRANSITION - PROVIDE APPROPRIATE DECK CLOSURE PLATE.
- X 3/8" x 6" x 8" BEARING PLATE W/ (2) MASONRY ANCHORS, GROUT BELOW FOR 2 COURSES x 16" WIDE. SEE DTL. 6B/S-103 FOR MORE INFO.
- Y CONNECT (WELD) 5/16" BENT PLATE TO COLUMN
- Z SEE DWG A-312 FOR PIPES ATTACHED to W8'S THAT ALSO CONNECT to STRINGERS. THESE PIPES ARE NOT STRUCTURAL HANGERS.

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

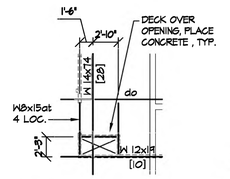
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

2nd FLOOR FRAMING PLAN

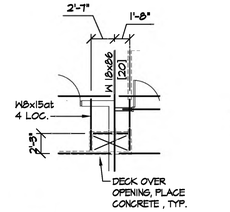
SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

S-200



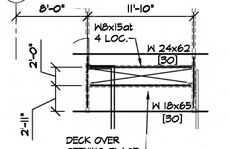
4 / S-201 PART. PLAN

SCALE: 1/8" = 1'-0"



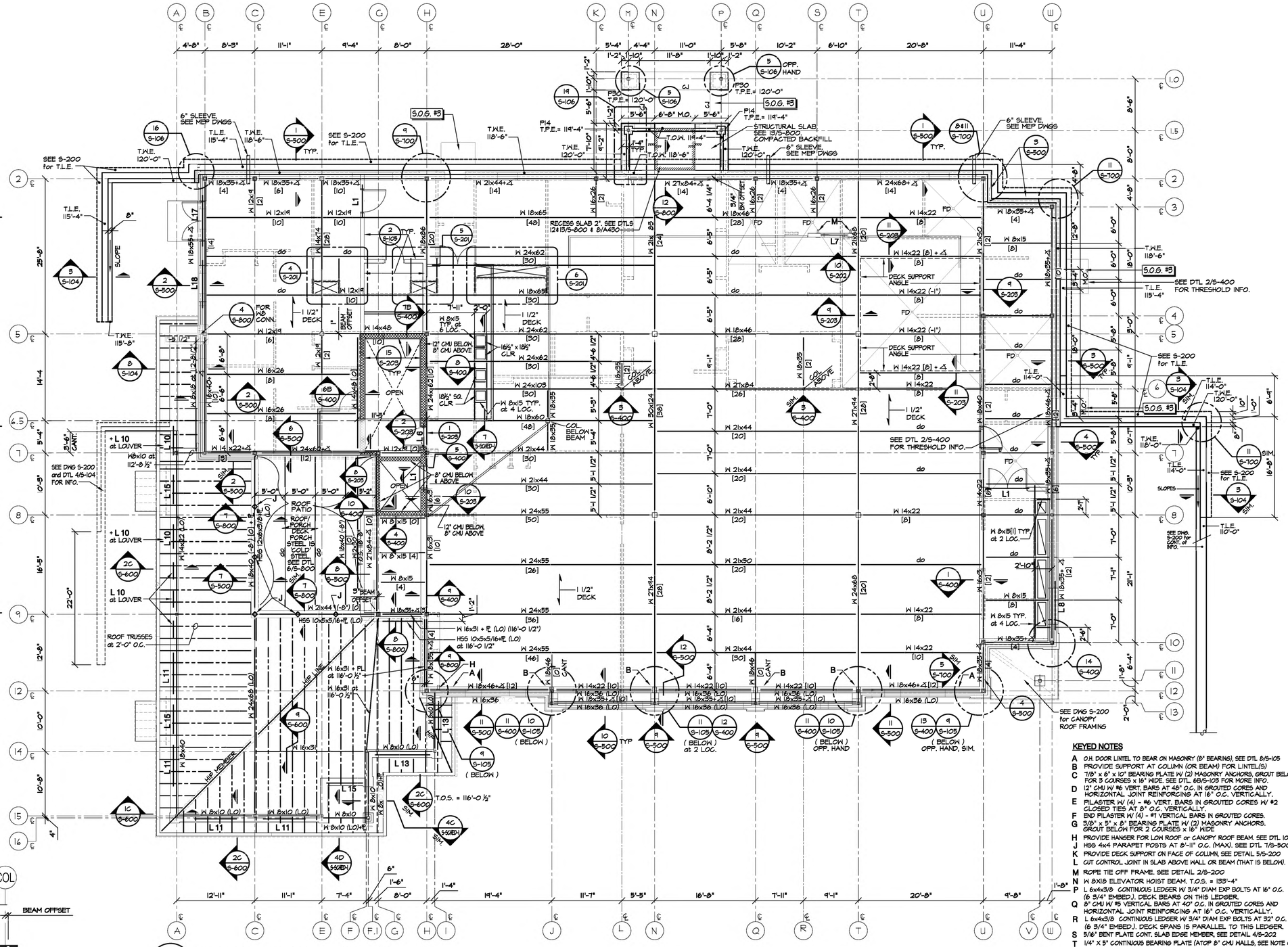
5 / S-201 PART. PLAN

SCALE: 1/8" = 1'-0"



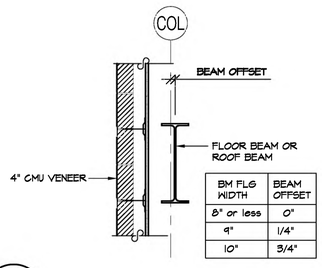
6 / S-201 PART. PLAN

SCALE: 1/8" = 1'-0"



1 / S-201 FRAMING PLAN - THIRD FLOOR

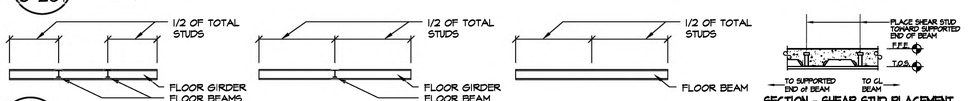
SCALE: 1/8" = 1'-0"



BM FLG WIDTH	BEAM OFFSET
8" or less	0"
9"	1/4"
10"	3/4"

2 / S-201 TYPICAL BEAM OFFSETS

SCALE: 3/4" = 1'-0"



3 / S-201 DETAIL - SHEAR STUD LAYOUT

NO SCALE

SECTION - SHEAR STUD PLACEMENT

NOTES:

1. THIRD FINISHED FLOOR = 120'-0"
2. TOP OF STEEL ELEVATION - T.O.S. = 119'-8"
3. 1 1/2" DECK - 1 1/2" VLI, 18 GA. (GALV.) FLOOR DECK WITH 2 1/2", 3,500 PSI CONCRETE TOPPING AND 6x6 W2.0 x W2.0 WWM. TOTAL SLAB THICKNESS = 4" (MAX. DECK SPAN = 9'-7" (3 SPAN CONTINUOUS)).
4. ROOF/PORCH DECK - 1 1/2" TYPE B, 22 GA. (GALV.)
5. [ ] DENOTES THE NUMBER OF 3/4" DIAM x 3" SHEAR STUDS EQUALLY SPACED ALONG BEAM, TYP. U.O.N. SEE 3/S-201.
6. BEAMS ARE EQUALLY SPACED BETWEEN COLUMN GRID LINES, TYP. U.O.N.
7. SEE DETAIL 2/S-201 FOR OFFSET BEAMS.
8. VERIFY DIMENSIONS with ARCHITECTURAL DRAWINGS.
9. FD - DENOTES FLOOR DRAIN

KEYED NOTES

- A O.H. DOOR LINTEL TO BEAR ON MASONRY (8" BEARING), SEE DTL 8/S-105
- B PROVIDE SUPPORT AT COLUMN (OR BEAM) FOR LINTEL(S)
- C 7/8" x 6" x 10" BEARING PLATE W/ (2) MASONRY ANCHORS, GROUT BELOW FOR 3 COURSES x 16" WIDE. SEE DTL. 6B/S-103 FOR MORE INFO.
- D 12" CMU W/ #6 VERT. BARS AT 48" O.C. IN GROUTED CORES AND HORIZONTAL JOINT REINFORCING AT 16" O.C. VERTICALLY.
- E PILASTER W/ (4) - #6 VERT. BARS IN GROUTED CORES W/ #2 CLOSED TIES AT 8" O.C. VERTICALLY.
- F END PILASTER W/ (4) - #7 VERTICAL BARS IN GROUTED CORES.
- G 3/8" x 5" x 8" BEARING PLATE W/ (2) MASONRY ANCHORS. GROUT BELOW FOR 2 COURSES x 16" WIDE
- H PROVIDE HANGER FOR LOW ROOF or CANOPY ROOF BEAM. SEE DTL 10/S-700
- J HSS 4x4 PARAPET POSTS AT 8'-11" O.C. (MAX). SEE DTL 7/S-500
- K PROVIDE DECK SUPPORT ON FACE OF COLUMN, SEE DETAIL 5/S-200
- L CUT CONTROL JOINT IN SLAB ABOVE WALL OR BEAM (THAT IS BELOW).
- M ROPE TIE OFF FRAME. SEE DETAIL 2/S-200
- N W 8X18 ELEVATOR HOIST BEAM, T.O.S. = 135'-4"
- P L 6x4x5/8 CONTINUOUS LEDGER W/ 3/4" DIAM EXP BOLTS AT 16" O.C. (6 3/4" EMBED.). DECK BEARS ON THIS LEDGER.
- Q 8" CMU W/ #5 VERTICAL BARS AT 40" O.C. IN GROUTED CORES AND HORIZONTAL JOINT REINFORCING AT 16" O.C. VERTICALLY.
- R L 6x4x5/8 CONTINUOUS LEDGER W/ 3/4" DIAM EXP BOLTS AT 32" O.C. (6 3/4" EMBED.). DECK SPANS IS PARALLEL TO THIS LEDGER.
- S 5/16" BENT PLATE CONT. SLAB EDGE MEMBER, SEE DETAIL 4/S-202
- T 1/4" X 5" CONTINUOUS BEARING PLATE (ATOP 8" CMU WALLS, SEE NOTE G) W/ MASONRY ANCHORS AT 32" O.C. SEE DETAILS 7A and 7B/S-202
- U 5/8" x 6" x 8" BEARING PLATE W/ (2) MASONRY ANCHORS, GROUT BELOW FOR 3 COURSES x 16" WIDE. SEE DTL. 6B/S-103 FOR MORE INFO.
- V C.B CANTILEVERS TO SUPPORT STAIR STRINGERS
- W FLOOR DECK TRANSITION - PROVIDE APPROPRIATE DECK CLOSURE PLATE.
- X 3/8" x 6" x 8" BEARING PLATE W/ (2) MASONRY ANCHORS, GROUT BELOW FOR 2 COURSES x 16" WIDE. SEE DTL. 6B/S-103 FOR MORE INFO.
- Y CONNECT (WELD) 5/16" BENT PLATE TO COLUMN
- Z SEE DWG A-312 FOR PIPES ATTACHED to W8'S THAT ALSO CONNECT to STRINGERS. THESE PIPES ARE NOT STRUCTURAL HANGERS.

N

MITCHELL ASSOCIATES ARCHITECTS

29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

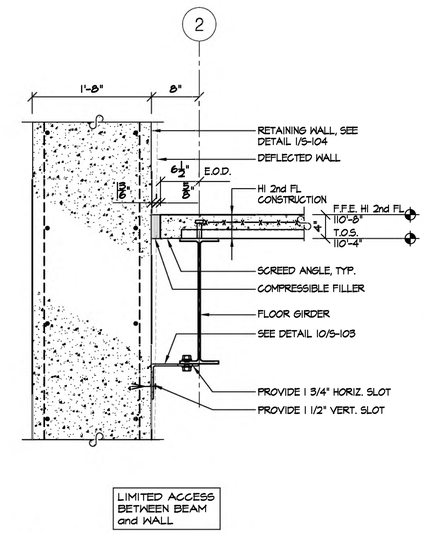
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

3rd FLOOR FRAMING PLAN

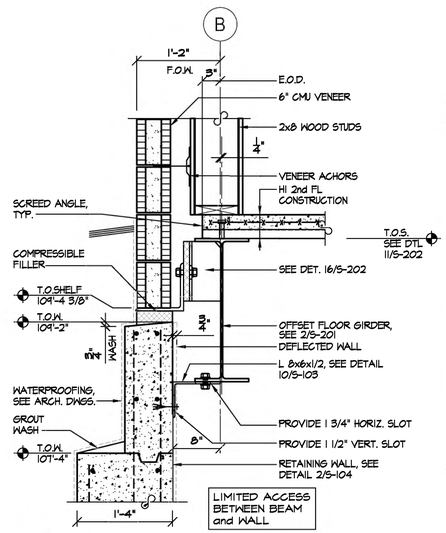
SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

S-201



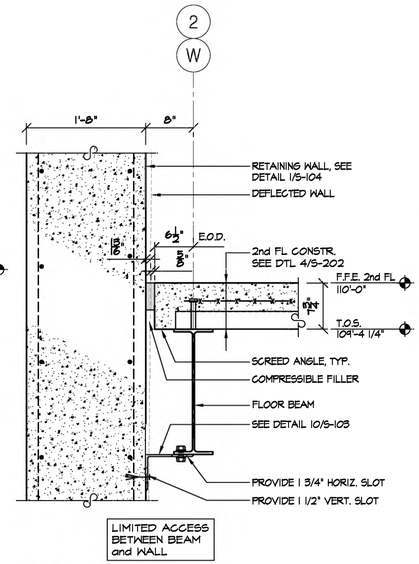
11 S-202 SECTION - HI SECOND FL FRAMING

SCALE: 1" = 1'-0"



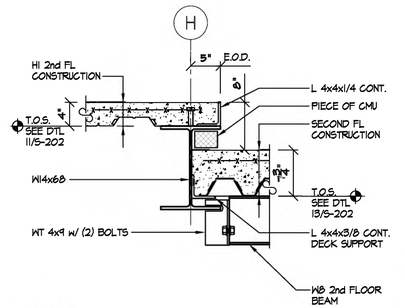
12 S-202 SECTION - HI SECOND FL FRAMING

SCALE: 1" = 1'-0"



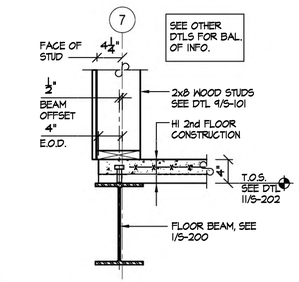
13 S-202 SECTION - SECOND FL FRAMING

SCALE: 1" = 1'-0"



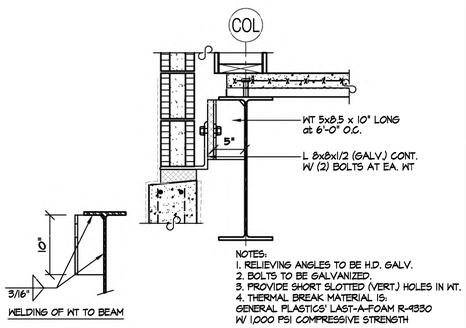
14 S-202 SECTION - SECOND FL FRAMING

SCALE: 1" = 1'-0"



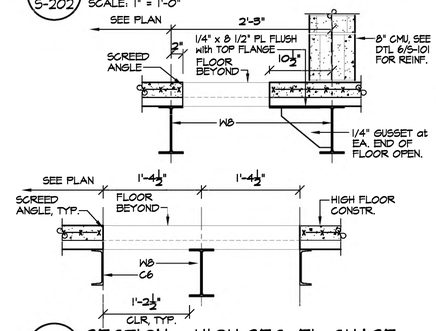
15 S-202 SECTION - HI SECOND FL FRAMING

SCALE: 1" = 1'-0"



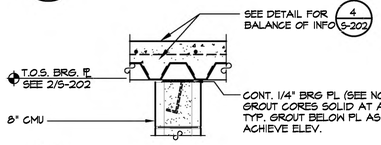
16 S-202 VENEER SHELF ANGLE

SCALE: 1" = 1'-0"



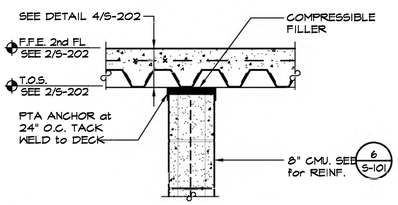
17 S-202 SECTION - HIGH SEC. FL CHASE

SCALE: 1" = 1'-0"



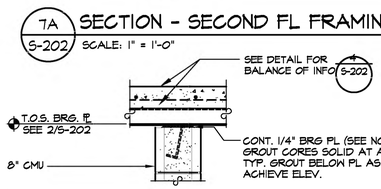
7A S-202 SECTION - SECOND FL FRAMING

SCALE: 1" = 1'-0"



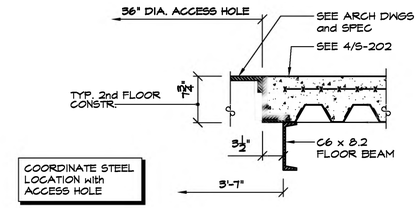
6 S-202 SECTION - SECOND FL FRAMING

SCALE: 1" = 1'-0"



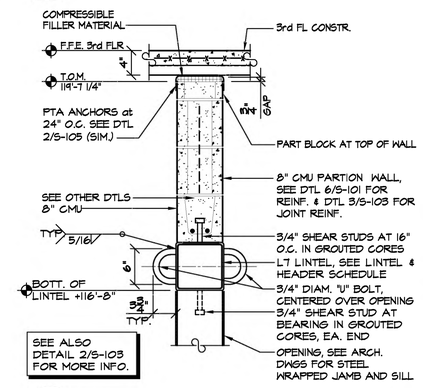
7B S-202 SECTION - SECOND FL FRAMING

SCALE: 1" = 1'-0"



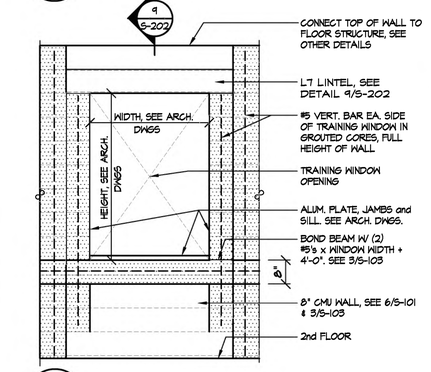
8 S-202 SECTION - SECOND FL FRAMING

SCALE: 1" = 1'-0"



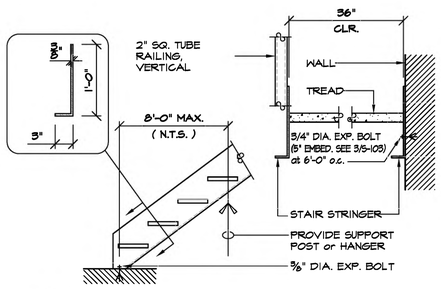
9 S-202 SECTION - TRAINING DEVICE

SCALE: 1" = 1'-0"



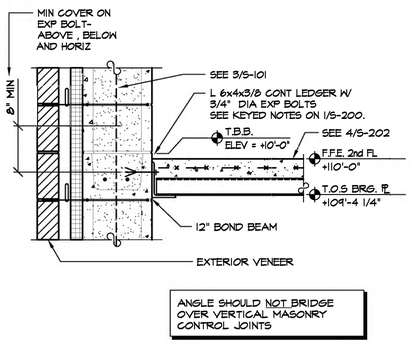
10 S-202 ELEVATION - TRAINING WALL

SCALE: 1/2" = 1'-0"



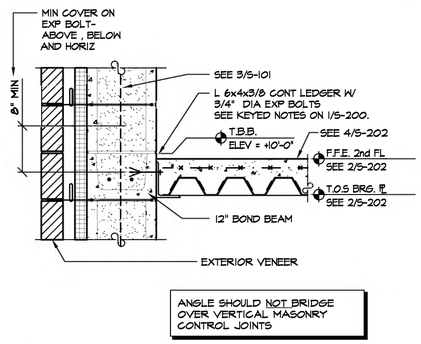
1 S-202 SECTION - STAIR STRINGER

SCALE: 1" = 1'-0"



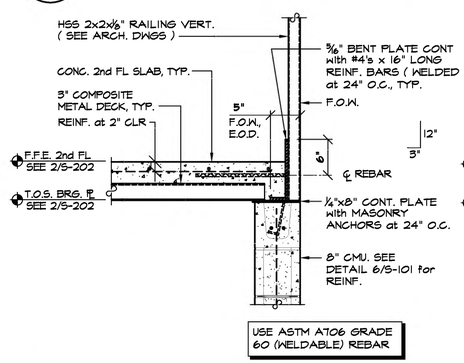
2 S-202 SECTION - SECOND FL FRAMING

SCALE: 1" = 1'-0"



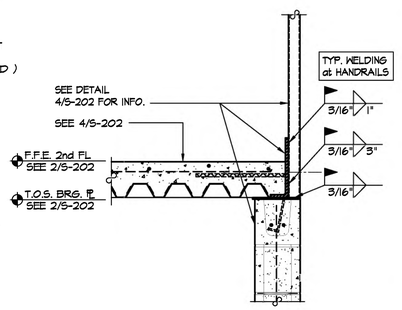
3 S-202 SECTION - SECOND FL FRAMING

SCALE: 1" = 1'-0"



4 S-202 SECTION - SECOND FL FRAMING

SCALE: 1" = 1'-0"



5 S-202 SECTION - SECOND FL FRAMING

SCALE: 1" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 745-4571 FAX (518) 745-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

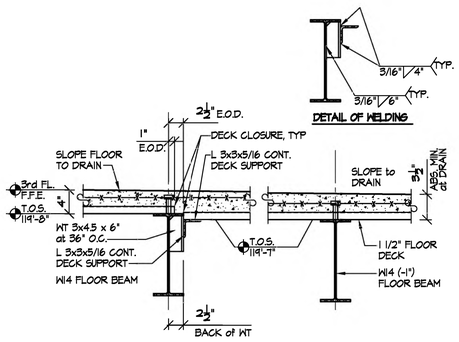
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

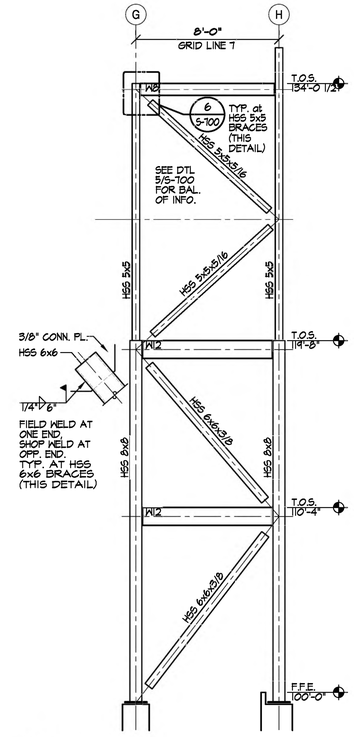
2nd FLOOR SECTIONS & DETAILS

SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

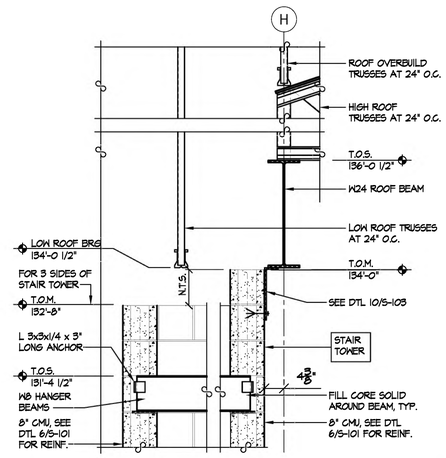
S-202



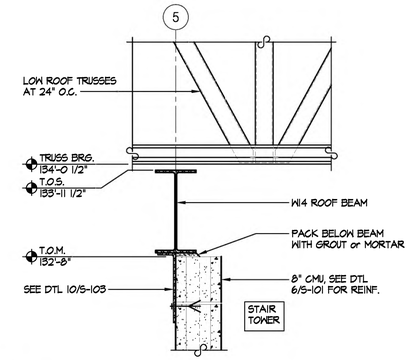
11 S-203 SECTION - 3RD FLOOR FRAMING
SCALE: 1" = 1'-0"



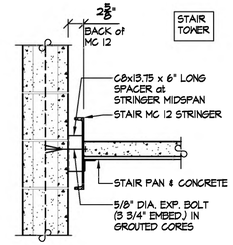
7 S-203 ELEV. - DIAGONAL BRACING
SCALE: 1/4" = 1'-0"



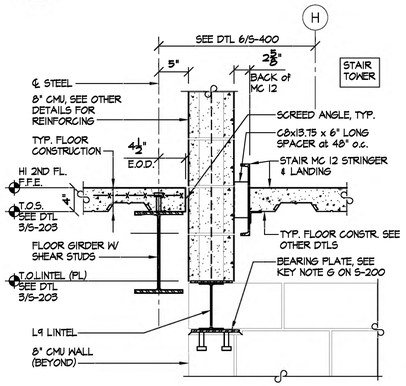
13 S-203 SECTION - ROOF FRAMING
SCALE: 3/4" = 1'-0"



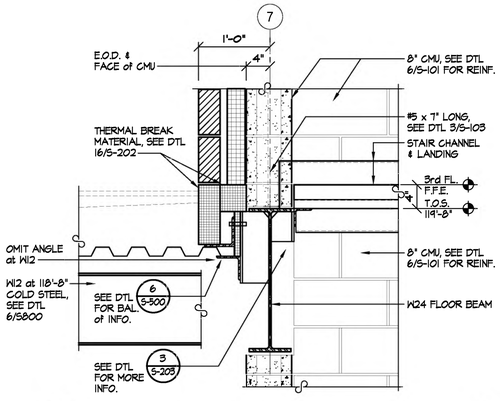
14 S-203 SECTION - ROOF FRAMING
SCALE: 1" = 1'-0"



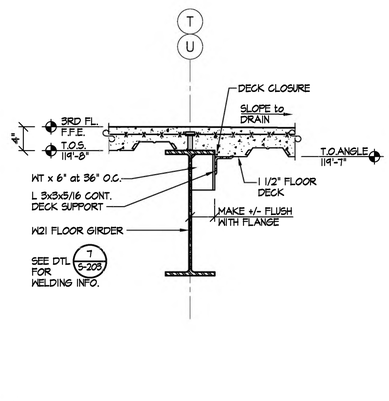
15 S-203 SECTION - STAIR STRINGER
SCALE: 1" = 1'-0"



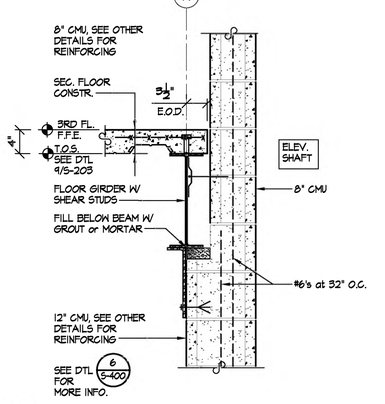
6 S-203 SECTION - HIGH SEC. FLOOR FRAMING
SCALE: 1" = 1'-0"



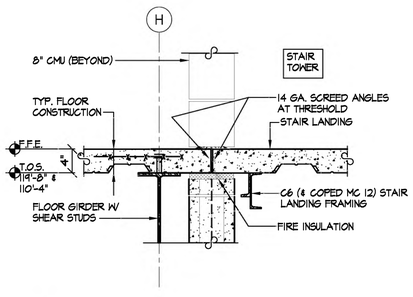
8 S-203 SECTION - 3RD FLOOR FRAMING
SCALE: 1" = 1'-0"



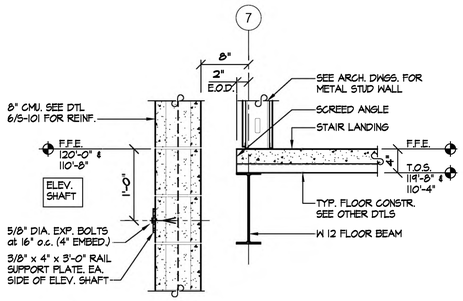
9 S-203 SECTION - 3RD FLOOR FRAMING
SCALE: 1" = 1'-0"



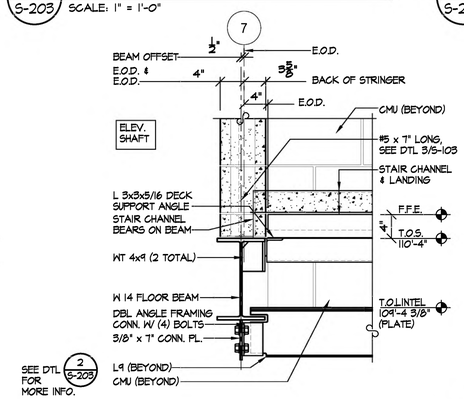
10 S-203 SECTION - 3RD FLOOR FRAMING
SCALE: 1" = 1'-0"



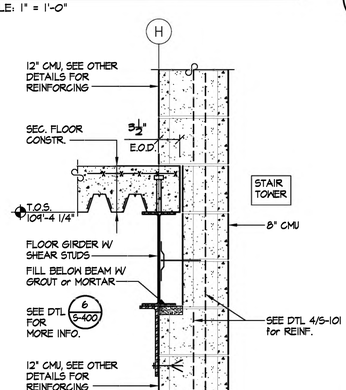
1 S-203 SECTION - STAIR THRESHOLD
SCALE: 1" = 1'-0"



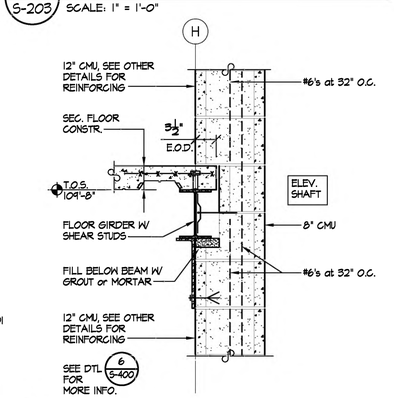
2 S-203 SECTION - FLOOR FRAMING
SCALE: 1" = 1'-0"



3 S-203 SECTION - HIGH SEC. FLOOR FRAMING
SCALE: 1" = 1'-0"



4 S-203 SECTION - SEC. FLOOR FRAMING
SCALE: 1" = 1'-0"



5 S-203 SECTION - SEC. FLOOR FRAMING
SCALE: 1" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 745-457I FAX (518) 745-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

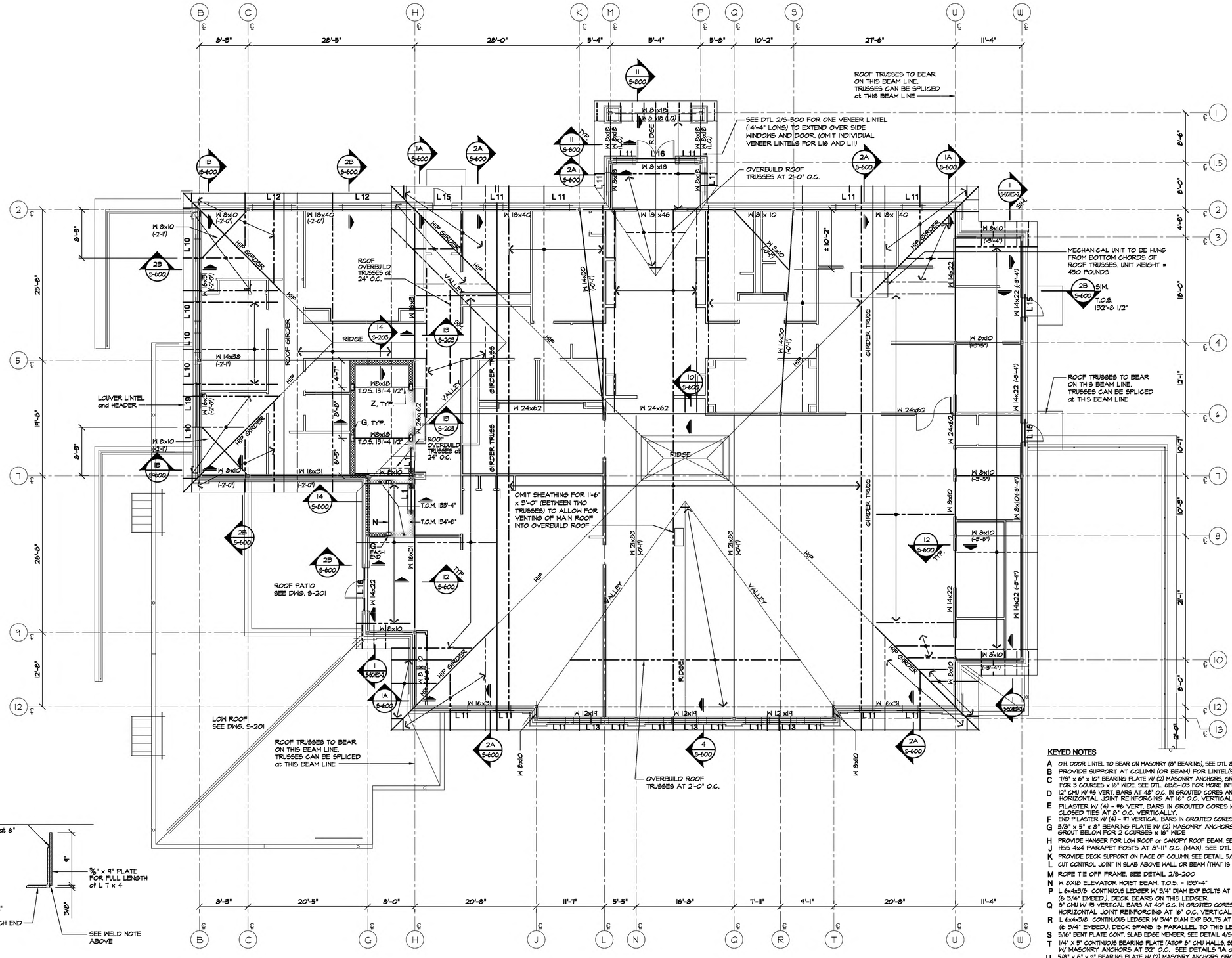
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		

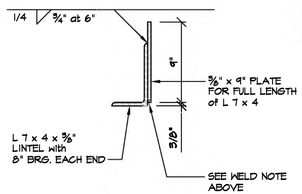
STATUS: FOR BIDDING

FLOOR FRAMING SECTIONS & DETAILS

SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

S-203





2 / S-300 DETAIL - LINTEL
SCALE: 1 1/2" = 1'-0"

1 / S-300 FRAMING PLAN - ROOF
SCALE: 1/8" = 1'-0"

KEYED NOTES

- A O.H. DOOR LINTEL TO BEAR ON MASONRY (8" BEARING), SEE DTL 8/S-105
- B PROVIDE SUPPORT AT COLUMN (OR BEAM) FOR LINTEL(S)
- C 7/8" x 6" x 10" BEARING PLATE W/ (2) MASONRY ANCHORS, GROUT BELOW FOR 3 COURSES x 16" WIDE. SEE DTL. 6B/S-103 FOR MORE INFO.
- D 12" (M) W/ #6 VERT. BARS AT 48" O.C. IN GROUTED CORES AND HORIZONTAL JOINT REINFORCING AT 16" O.C. VERTICALLY.
- E PILASTER W/ (4) - #6 VERT. BARS IN GROUTED CORES W/ #2 CLOSED TIES AT 8" O.C. VERTICALLY.
- F END PILASTER W/ (4) - #7 VERTICAL BARS IN GROUTED CORES.
- G 5/8" x 5" x 8" BEARING PLATE W/ (2) MASONRY ANCHORS. GROUT BELOW FOR 2 COURSES x 16" WIDE
- H PROVIDE HANGER FOR LOW ROOF or CANOPY ROOF BEAM. SEE DTL 10/S-700
- J HSS 4x4 PARAPET POSTS AT 8'-11" O.C. (MAX). SEE DTL 7/S-500
- K PROVIDE DECK SUPPORT ON FACE OF COLUMN, SEE DETAIL 5/S-200
- L CUT CONTROL JOINT IN SLAB ABOVE WALL OR BEAM (THAT IS BELOW).
- M ROPE TIE OFF FRAME. SEE DETAIL 2/S-200
- N W 8X18 ELEVATOR HOIST BEAM. T.O.S. = 133'-4"
- P L 6x4x5/8 CONTINUOUS LEDGER W/ 3/4" DIAM EXP BOLTS AT 16" O.C. (6 3/4" EMBED.). DECK BEARS ON THIS LEDGER.
- Q 8" (M) W/ #5 VERTICAL BARS AT 40" O.C. IN GROUTED CORES AND HORIZONTAL JOINT REINFORCING AT 16" O.C. VERTICALLY.
- R L 6x4x5/8 CONTINUOUS LEDGER W/ 3/4" DIAM EXP BOLTS AT 32" O.C. (6 3/4" EMBED.). DECK SPANS IS PARALLEL TO THIS LEDGER.
- S 5/16" BENT PLATE CONT. SLAB EDGE MEMBER, SEE DETAIL 4/S-202
- T 1/4" x 5" CONTINUOUS BEARING PLATE (ATOP 8" CMU WALLS, SEE NOTE G) W/ MASONRY ANCHORS AT 32" O.C. SEE DETAILS TA and TB/S-202
- U 5/8" x 6" x 9" BEARING PLATE W/ (2) MASONRY ANCHORS, GROUT BELOW FOR 3 COURSES x 16" WIDE. SEE DTL. 6B/S-103 FOR MORE INFO.
- V CB CANTILEVERS TO SUPPORT STAIR STRINGERS
- W FLOOR DECK TRANSITION - PROVIDE APPROPRIATE DECK CLOSURE PLATE.
- X 3/8" x 6" x 8" BEARING PLATE W/ (2) MASONRY ANCHORS, GROUT BELOW FOR 2 COURSES x 16" WIDE. SEE DTL. 6B/S-103 FOR MORE INFO.
- Y CONNECT (WELD) 5/16" BENT PLATE TO COLUMN
- Z SEE DWG A-312 FOR PIPES ATTACHED to HSS THAT ALSO CONNECT to STRINGERS. THESE PIPES ARE NOT STRUCTURAL HANGERS.

NOTES - ROOF FRAMING:

1. T.O.S. = 136'-0 1/2" OTHER TOS ELEVATIONS SHOWN THUS: ( ) RELATIVE to 136'-0 1/2"
2. SEE S-SCHED-1 FOR LINTEL & HEADER SCHEDULE FOR HEADERS & LOOSE LINTELS OVER DOORS AND WINDOWS
3. ALL ROOF SHEATHING TO BE 3/4" C-D PLYWOOD, SEE SPEC. FOR MORE INFO.

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

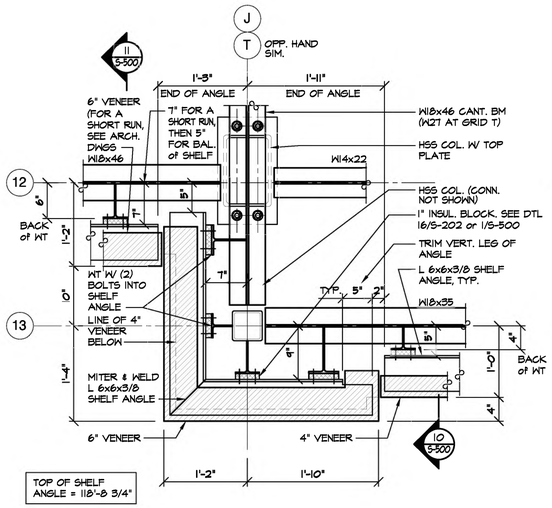
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

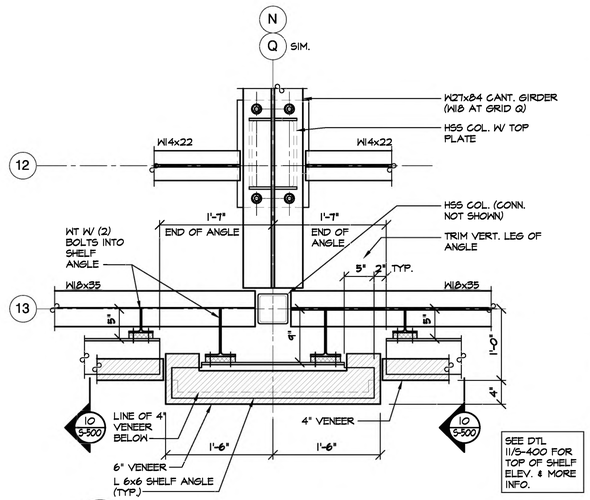
ROOF FRAMING PLAN

SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

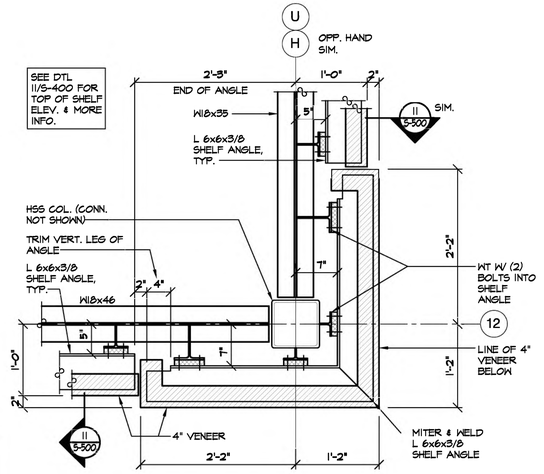
S-300



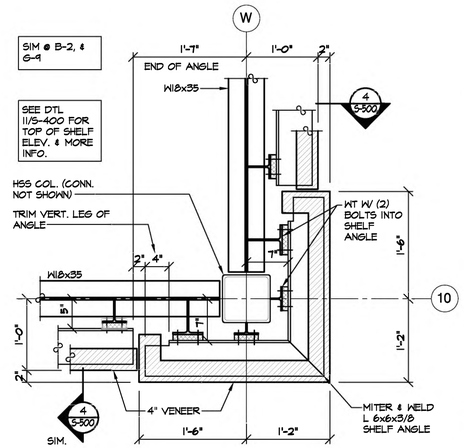
11 S-400 PLAN DETAIL - SHELF ANGLES
SCALE: 1" = 1'-0"



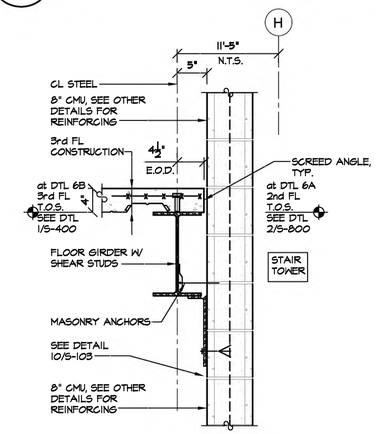
12 S-400 PLAN DETAIL - SHELF ANGLES
SCALE: 1" = 1'-0"



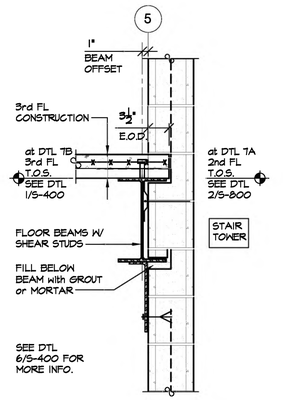
13 S-400 PLAN DETAIL - SHELF ANGLES
SCALE: 1" = 1'-0"



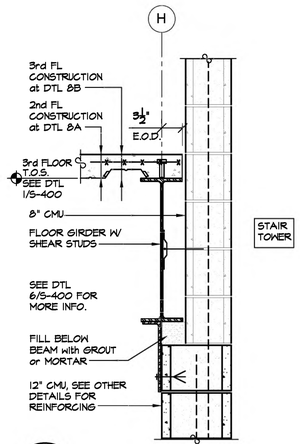
14 S-400 PLAN DETAIL - SHELF ANGLES
SCALE: 1" = 1'-0"



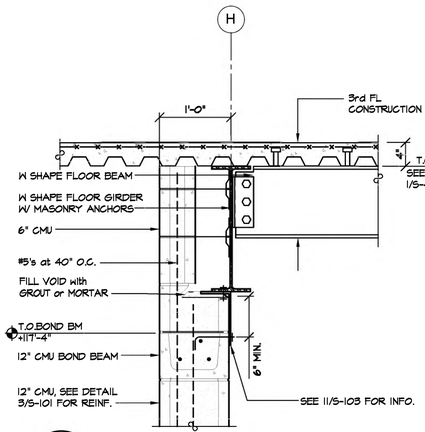
6A&6B S-400 SECTION - 2nd & 3rd FL FRAMING
SCALE: 1" = 1'-0"



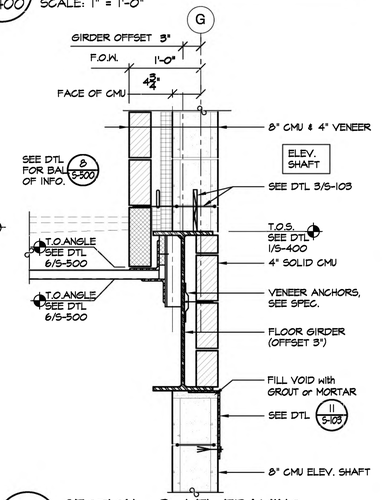
7A&7B S-400 SECTION - 2nd & 3rd FL FRAMING
SCALE: 1" = 1'-0"



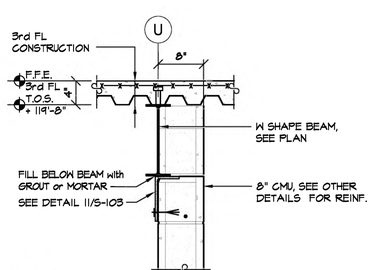
8 S-400 SECTION - 3rd FL FRAMING
SCALE: 1" = 1'-0"



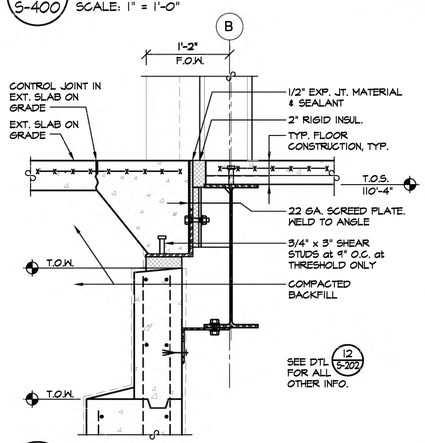
9 S-400 SECTION - 3rd FL FRAMING
SCALE: 1" = 1'-0"



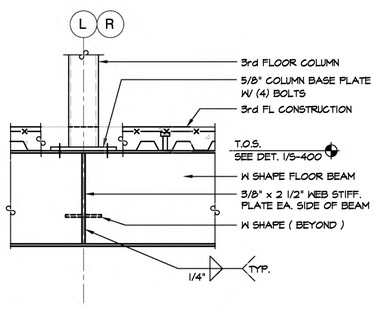
10 S-400 SECTION - 3rd FL FRAMING
SCALE: 1" = 1'-0"



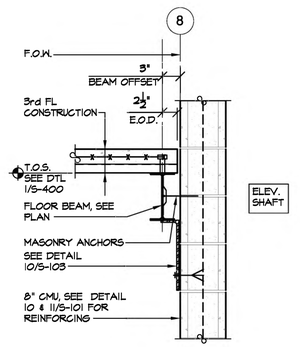
1 S-400 SECTION - 3rd FL FRAMING
SCALE: 1" = 1'-0"



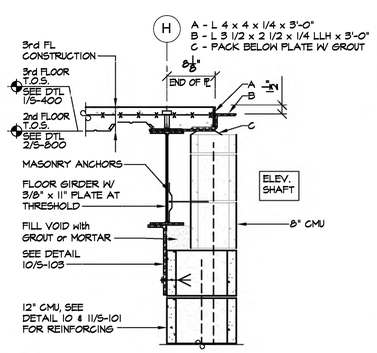
2 S-400 HIGH SEC. FL THRESHOLD
SCALE: 1" = 1'-0"



3 S-400 SECTION - COLUMN TRANSFER
SCALE: 1" = 1'-0"



4 S-400 SECTION - 3rd FL FRAMING at ELEVATOR
SCALE: 1" = 1'-0"



5 S-400 SECTION - FLOOR FRAMING at ELEVATOR DOOR
SCALE: 1" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 745-4571 FAX (518) 745-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

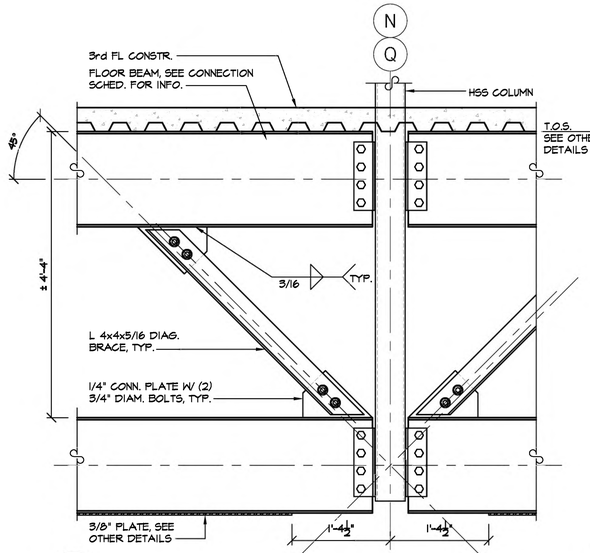
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

3rd FLOOR SECTIONS & DETAILS

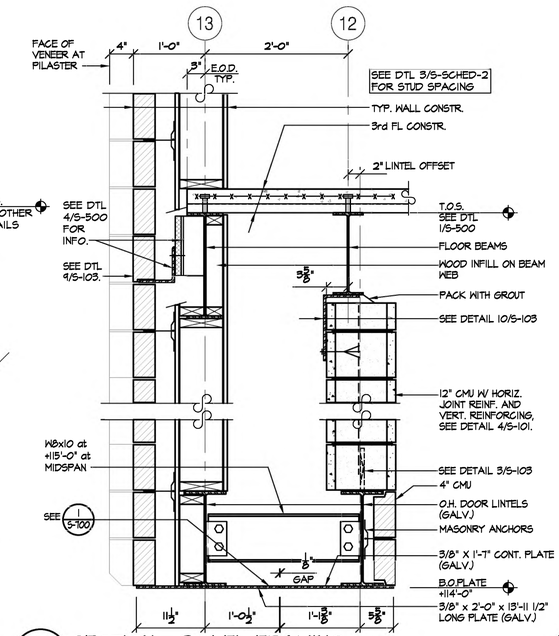
SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

S-400



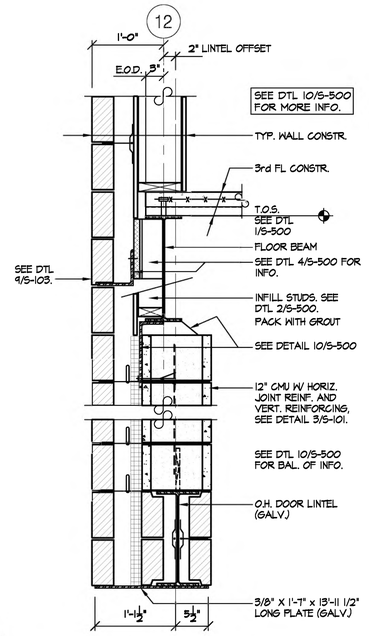
9 S-500 **DETAIL - BRACING ALONG COL LINE 13**

SCALE: 1" = 1'-0"



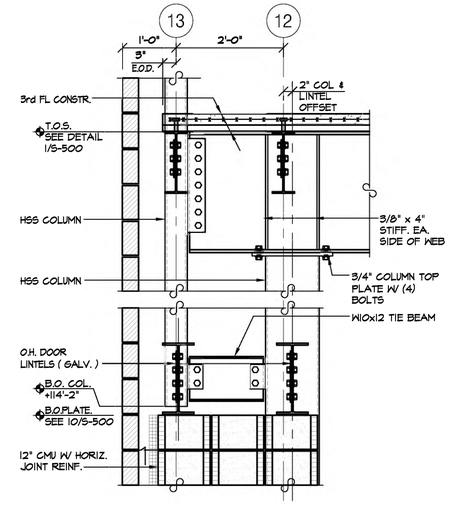
10 S-500 **SECTION - 3rd FL FRAMING**

SCALE: 1" = 1'-0"



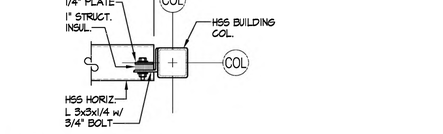
11 S-500 **SECTION - 3rd FL FRAMING**

SCALE: 1" = 1'-0"



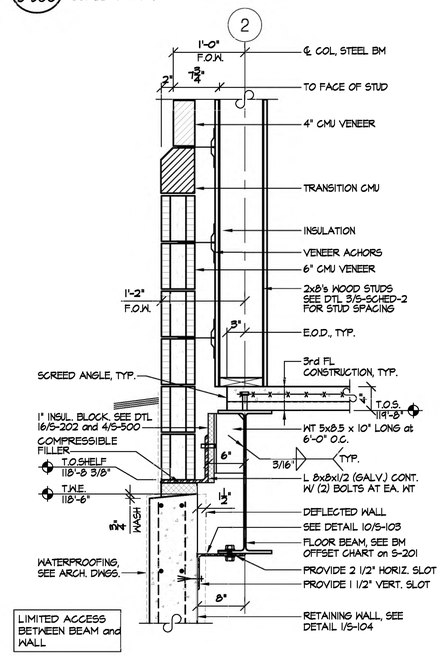
12 S-500 **SECTION - 3rd FL FRAMING**

SCALE: 3/4" = 1'-0"



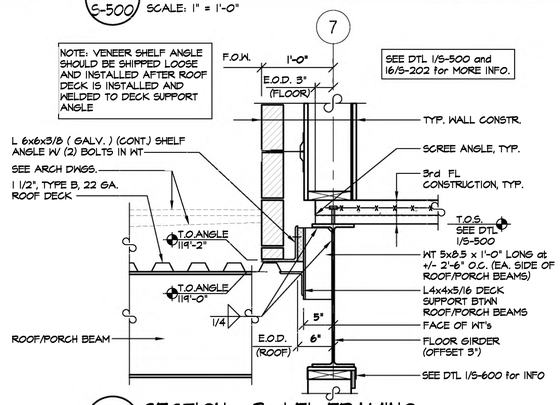
5 S-500 **SECTION - PARAPET CONN.**

SCALE: 1" = 1'-0"



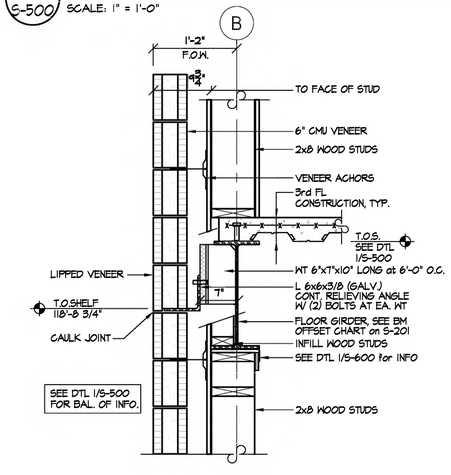
1 S-500 **SECTION - 3rd FL FRAMING**

SCALE: 1" = 1'-0"



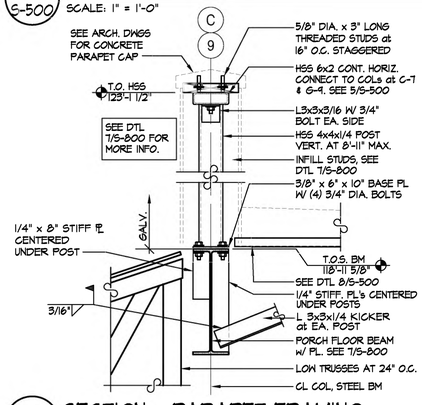
6 S-500 **SECTION - 3rd FL FRAMING**

SCALE: 1" = 1'-0"



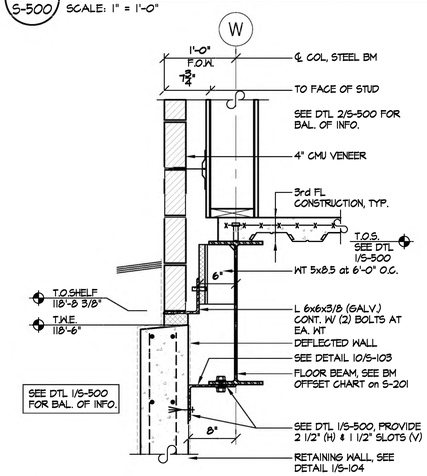
2 S-500 **SECTION - 3rd FL FRAMING**

SCALE: 1" = 1'-0"



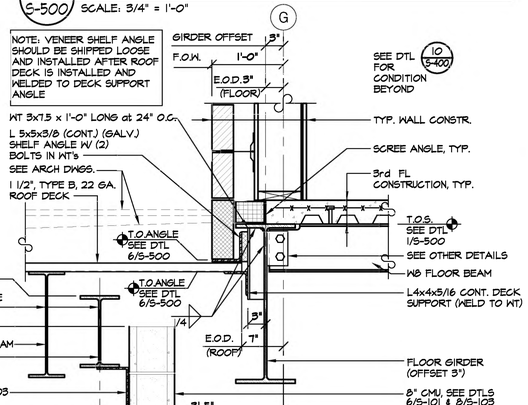
7 S-500 **SECTION - PARAPET FRAMING**

SCALE: 1" = 1'-0"



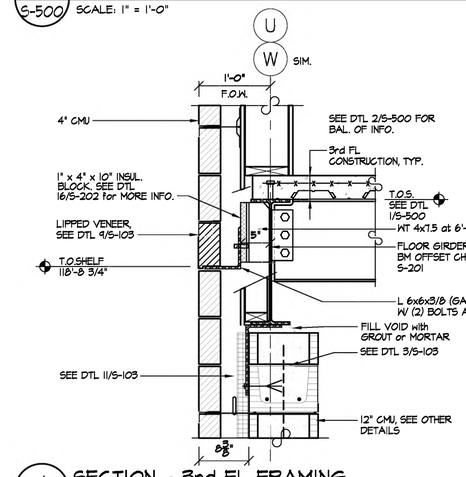
3 S-500 **SECTION - 3rd FL FRAMING**

SCALE: 1" = 1'-0"



8 S-500 **SECTION - 3rd FL FRAMING**

SCALE: 1" = 1'-0"



4 S-500 **SECTION - 3rd FL FRAMING**

SCALE: 1" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS

29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

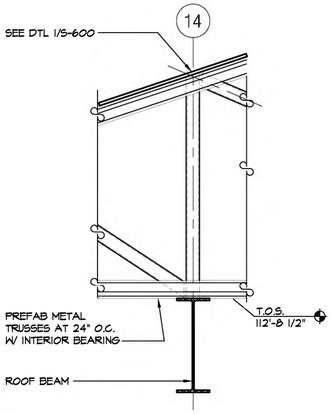
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

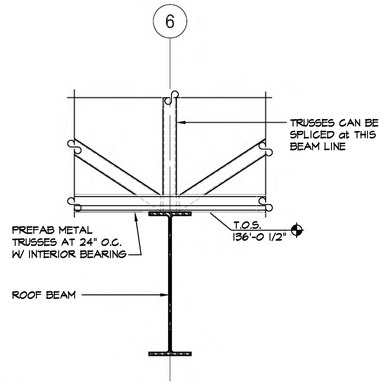
3rd FLOOR SECTIONS & DETAILS

SCALE: AS NOTED
DWG. BY: jc/CAM
DWG. DATE: 08/14/2020
DWG ID#:

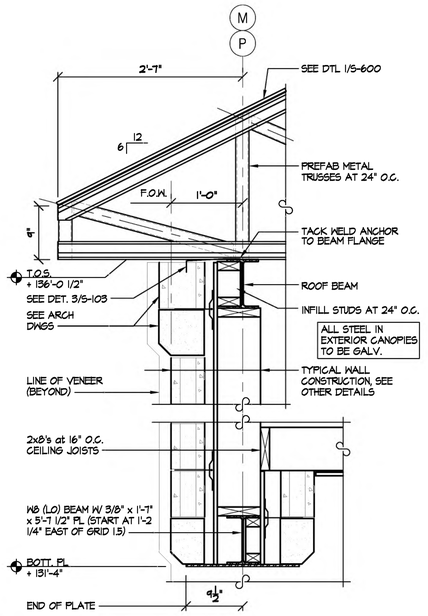
S-500



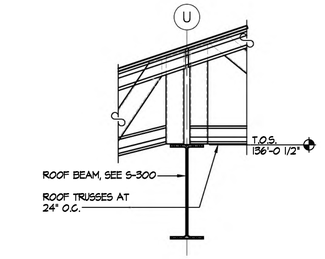
9 S-600 DETAIL - ROOF FRAMING
SCALE: 1" = 1'-0"



10 S-600 DETAIL - ROOF FRAMING
SCALE: 1" = 1'-0"



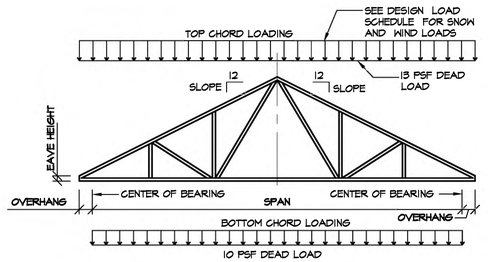
11 S-600 SECTION - CANOPY ROOF
SCALE: 1" = 1'-0"



12 S-600 DETAIL - ROOF FRAMING
SCALE: 1" = 1'-0"

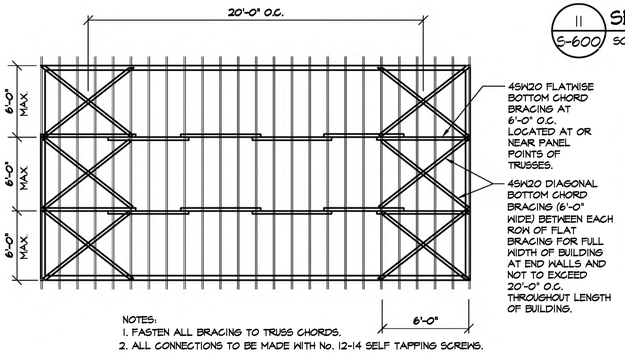
SECTION	GRID	T.O.S.	OVERHANG DIM.	T.O.M.
1C & 2C/S-600	A	112'-8 1/2"	2'-1"	112'-8"
1B & 2B/S-600	B	134'-0 1/2"	2'-1"	134'-0"
1B & 2B/S-600	G	134'-0 1/2"	1'-4"	134'-0"
1A & 2A/S-600	H	136'-0 1/2"	3'-4"	136'-0"
1A & 2A/S-600	U	136'-0 1/2"	3'-4"	136'-0"
1A & 2A/S-600 SIM.	M	132'-8 1/2"	2'-5"	132'-8"
1A & 2A/S-600	2	136'-0 1/2"	3'-4"	136'-0"
1B & 2B/S-600	2	134'-0 1/2"	2'-1"	134'-0"
1B & 2B/S-600	1	134'-0 1/2"	2'-1"	134'-0"
1A & 2A/S-600	12	136'-0 1/2"	3'-4"	136'-0"
1A & 2A/S-600	13	136'-0 1/2"	1'-4"	136'-0"
1C & 2C/S-600 SIM.	14	116'-0 1/2"	3'-3"	116'-0"
1C & 2C/S-600	15	112'-8 1/2"	2'-1"	112'-8"
1C & 2C/S-600	16	112'-8 1/2"	2'-3"	112'-8"

8 S-600 CHART - OVERHANG DIMENSIONS
SCALE: 1" = 1'-0"



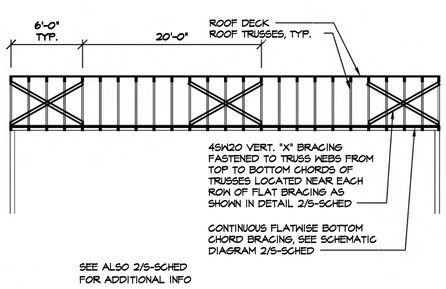
ROOF AREA	SLOPE	SPAN	OVERHANG	EAVE HEIGHT
MAIN BUILDING	4	SEE PLAN	SEE DETAIL 8/S-600	0'-9"
ENTRANCE	6	15'-4"	2'-7"	0'-9"

5 S-600 ROOF TRUSS LOAD DIAGRAM
SCALE: 1/16" = 1'-0"
NOTE: SEE DETAILS 6&7/S-600 FOR SCHEMATIC DETAILS OF TRUSS SYSTEM BRACING.



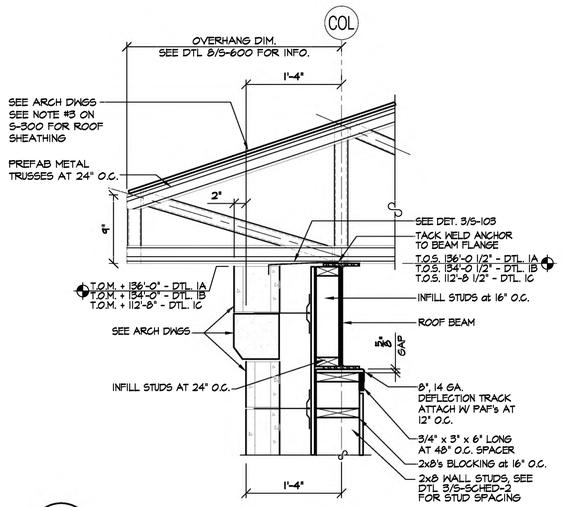
NOTES:
1. FASTEN ALL BRACING TO TRUSS CHORDS.
2. ALL CONNECTIONS TO BE MADE WITH No. 12-14 SELF TAPPING SCREWS.
3. PLACE 'FLATWISE' BRACING ON TOP SIDE OF BOTTOM CHORDS.

6 S-600 SCHEMATIC - BOTTOM CHORD BRACING OF ROOF TRUSSES
SCALE: 1/2" = 1'-0"

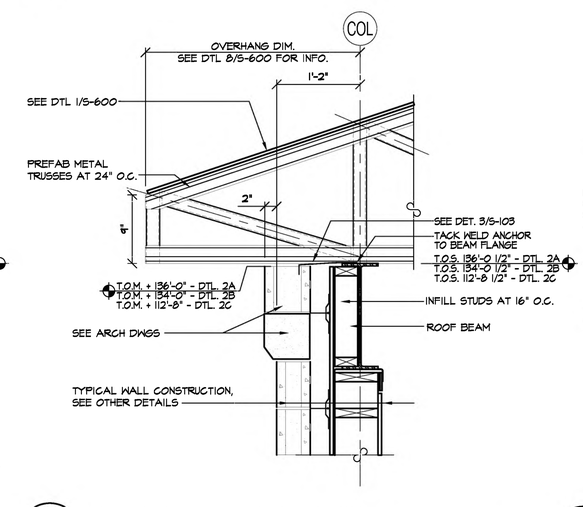


SEE ALSO 2/S-SCHED FOR ADDITIONAL INFO

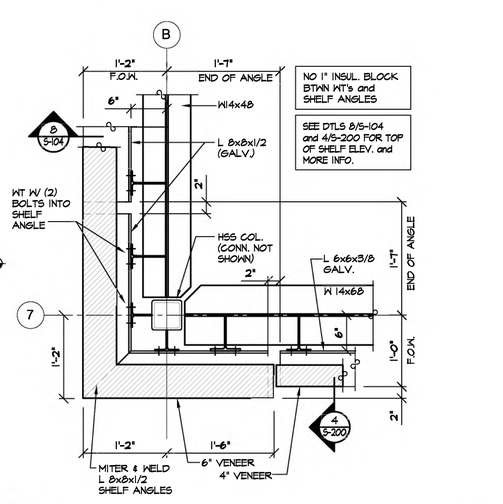
7 S-600 SCHEMATIC - VERTICAL BRACING OF ROOF TRUSSES
SCALE: 1/2" = 1'-0"



1A/1B&1C S-600 SECTION - ROOF FRAMING AT CORNERS
SCALE: 1" = 1'-0"



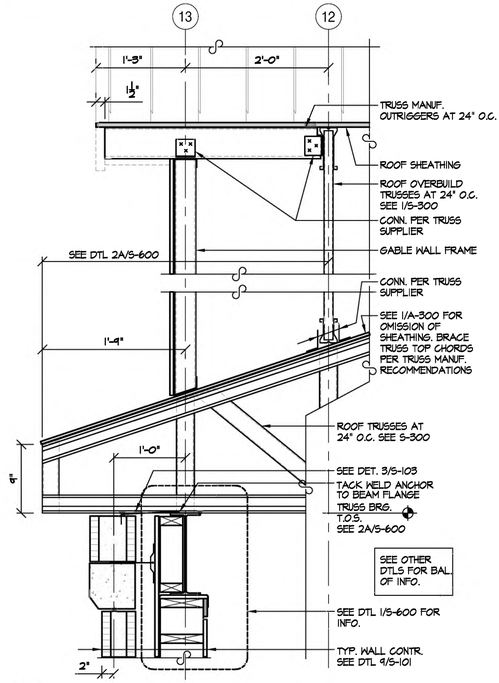
2A2B&2C S-600 SECTION - ROOF FRAMING
SCALE: 1" = 1'-0"



NO 1" INSUL. BLOCK BTWN WT's and SHELF ANGLES

SEE DTLS 8/S-104 and 4/S-200 FOR TOP OF SHELF ELEV. and MORE INFO.

3 S-600 PLAN DETAIL - SHELF ANGLES
SCALE: 1" = 1'-0"



4 S-600 SECTION - ROOF FRAMING
SCALE: 1" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 745-4571 FAX (518) 745-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

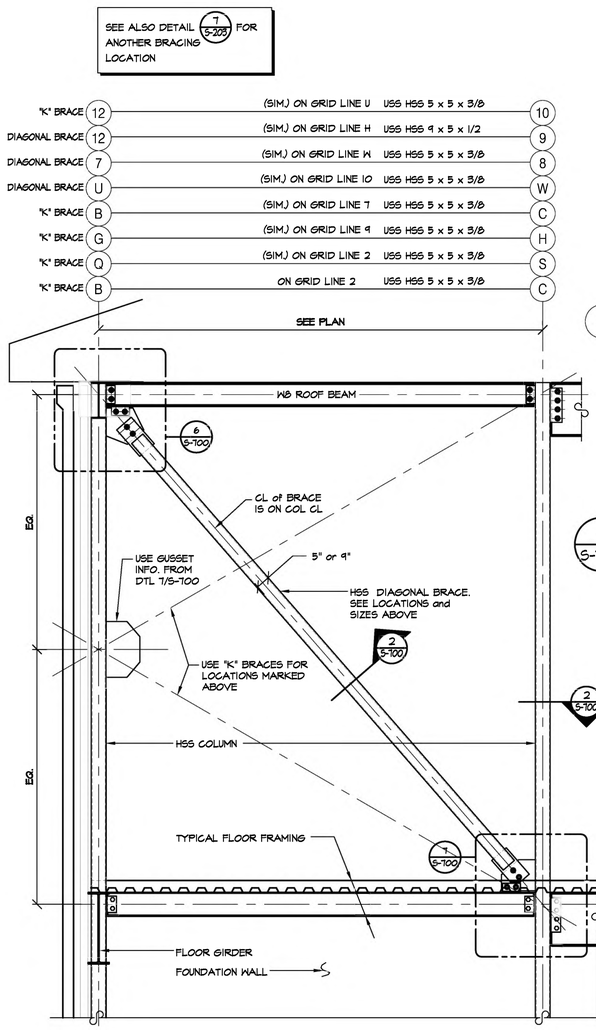
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

ROOF SECTIONS & DETAILS

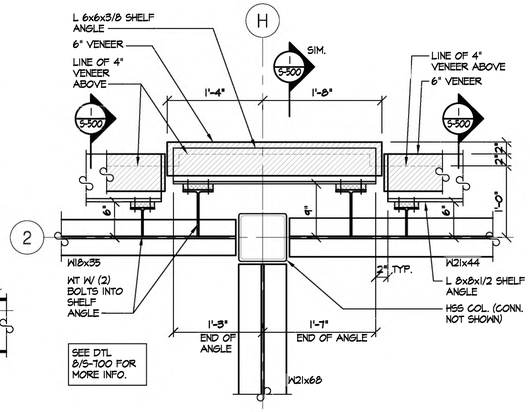
SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

S-600



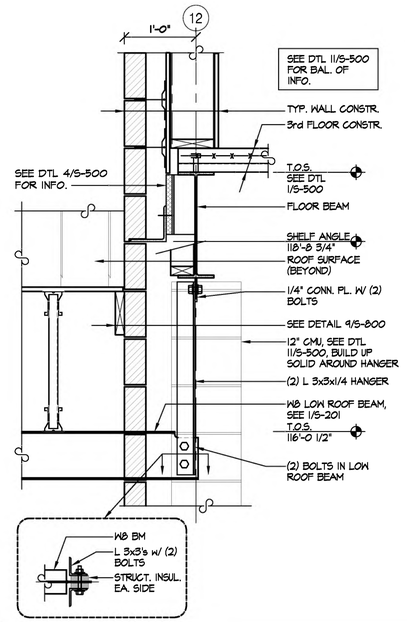
5 S-700 ELEVATION - DIAGONAL BRACING ON 2 LINE

SCALE: 1/2" = 1'-0"



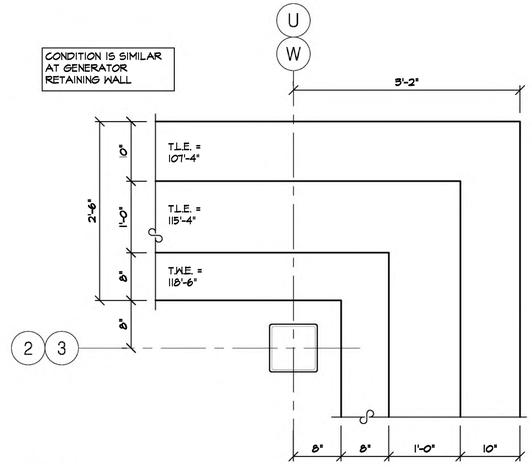
9 S-700 PLAN DETAIL - SHELF ANGLES

SCALE: 1" = 1'-0"



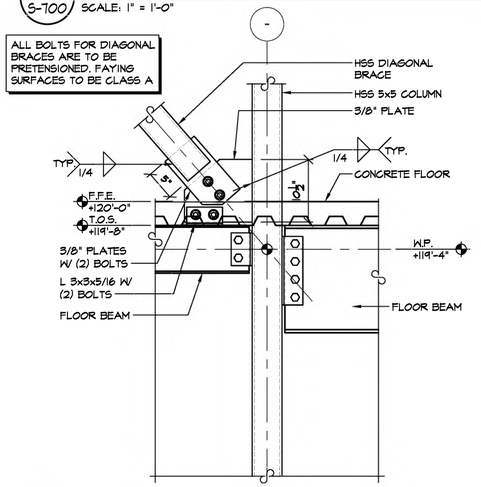
10 S-700 SECTION - FRAMING

SCALE: 1" = 1'-0"



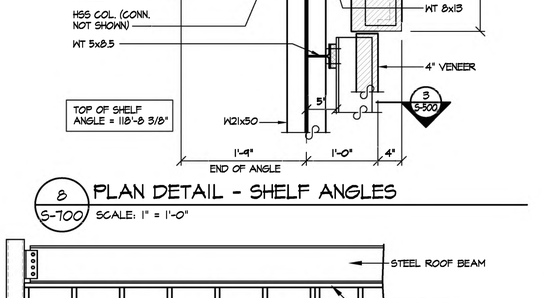
11 S-700 PLAN DETAIL - at COL. U-2

SCALE: 1" = 1'-0"



7 S-700 SECTION - BRACING

SCALE: 1" = 1'-0"

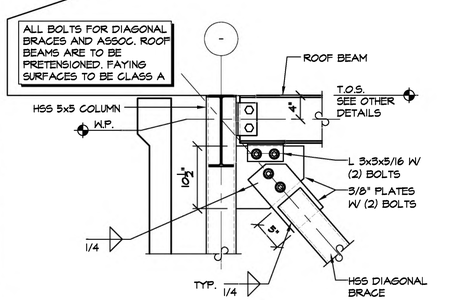


8 S-700 PLAN DETAIL - SHELF ANGLES

SCALE: 1" = 1'-0"

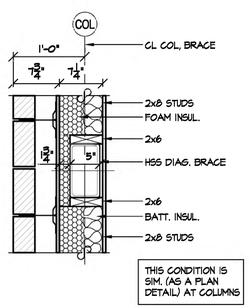
1 S-700 DETAIL - ALIGNMENT PLATES

SCALE: 3" = 1'-0"



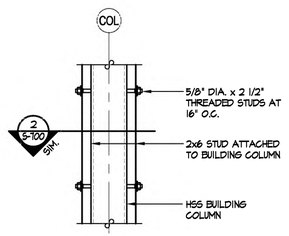
6 S-700 SECTION - BRACING

SCALE: 1" = 1'-0"



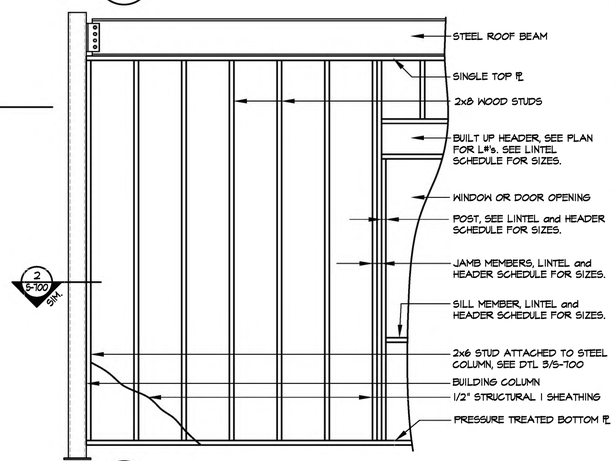
2 S-700 SECTION - DIAGONAL BRACE

SCALE: 1" = 1'-0"



3 S-700 TYPICAL DETAIL - COLUMN STUDS

SCALE: 1" = 1'-0"



4 S-700 SHEAR WALL CONSTRUCTION

SCALE: 1/2" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 745-4571 FAX (518) 745-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

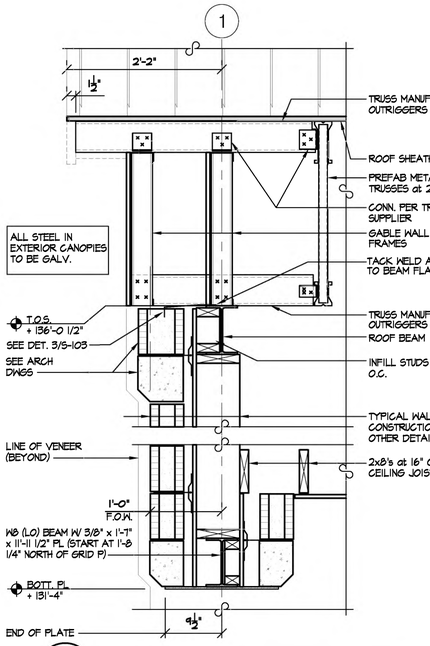
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

ROOF SECTIONS & DETAILS

SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

S-700



11 S-800 SECTION - CANOPY ROOF

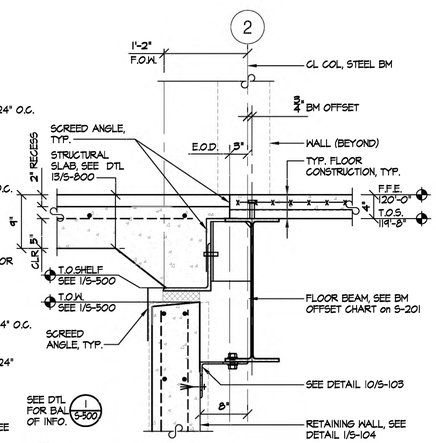
SCALE: 1" = 1'-0"

6B S-800 DETAIL - INSULATED CONN.

SCALE: 1" = 1'-0"

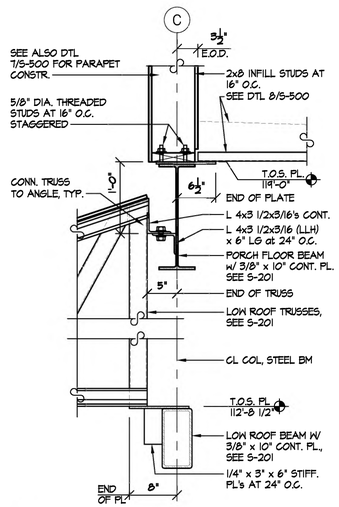
6 S-800 DETAIL - INSULATED CONN.

SCALE: 1" = 1'-0"



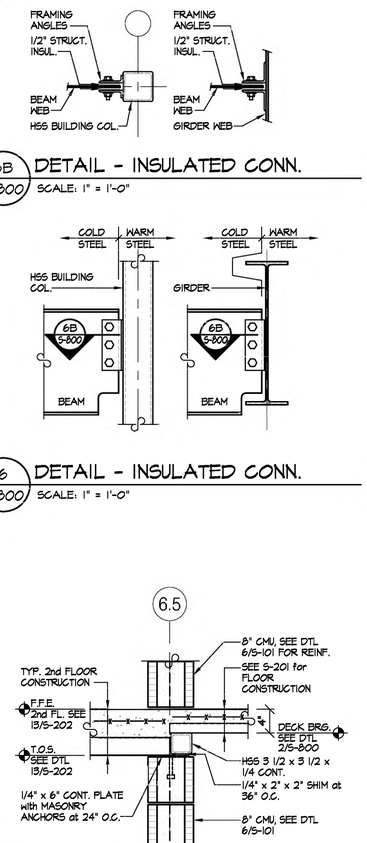
12 S-800 SECTION - FLOOR FRAMING

SCALE: 1" = 1'-0"



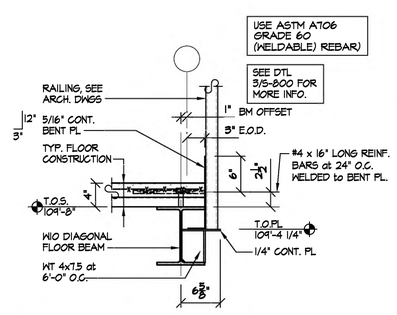
7 S-800 SECTION - PORCH & LOW ROOF FRAMING

SCALE: 1" = 1'-0"



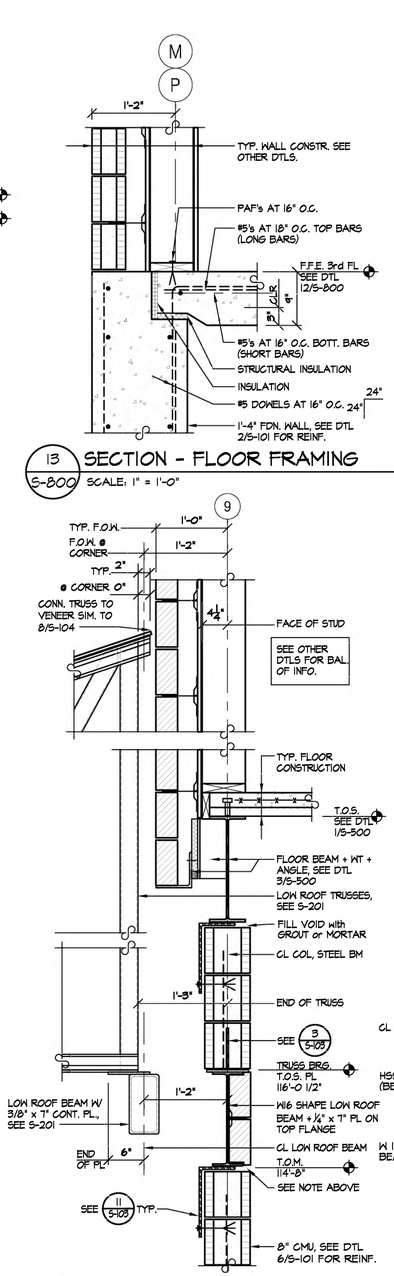
1 S-800 SECTION - 2nd FLOOR FRAMING

SCALE: 1" = 1'-0"



2 S-800 SECTION - 2nd FLOOR RAILING

SCALE: 1" = 1'-0"

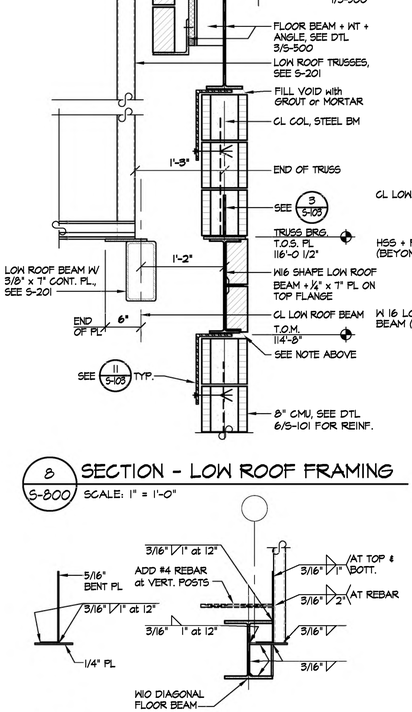


13 S-800 SECTION - FLOOR FRAMING

SCALE: 1" = 1'-0"

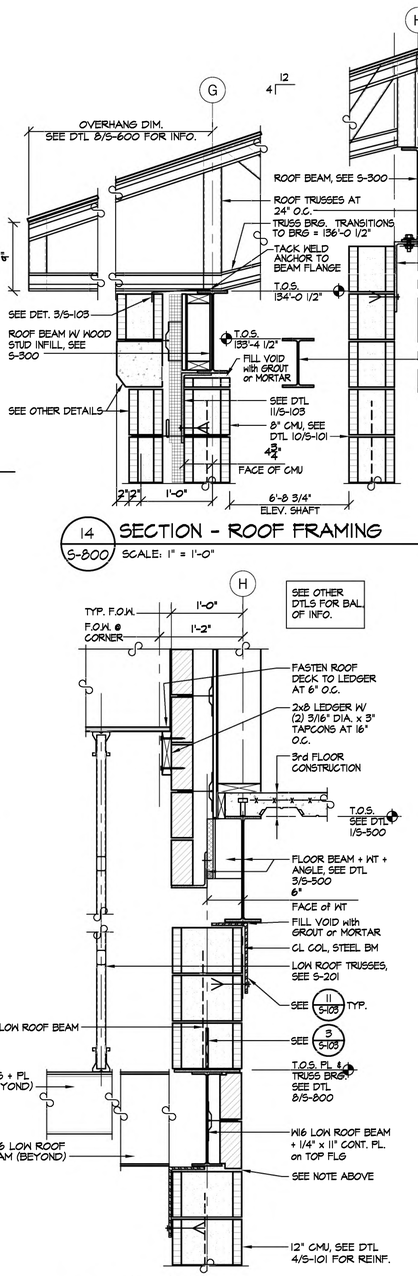
8 S-800 SECTION - LOW ROOF FRAMING

SCALE: 1" = 1'-0"



3 S-800 DETAIL - WELDING

SCALE: 1" = 1'-0"



14 S-800 SECTION - ROOF FRAMING

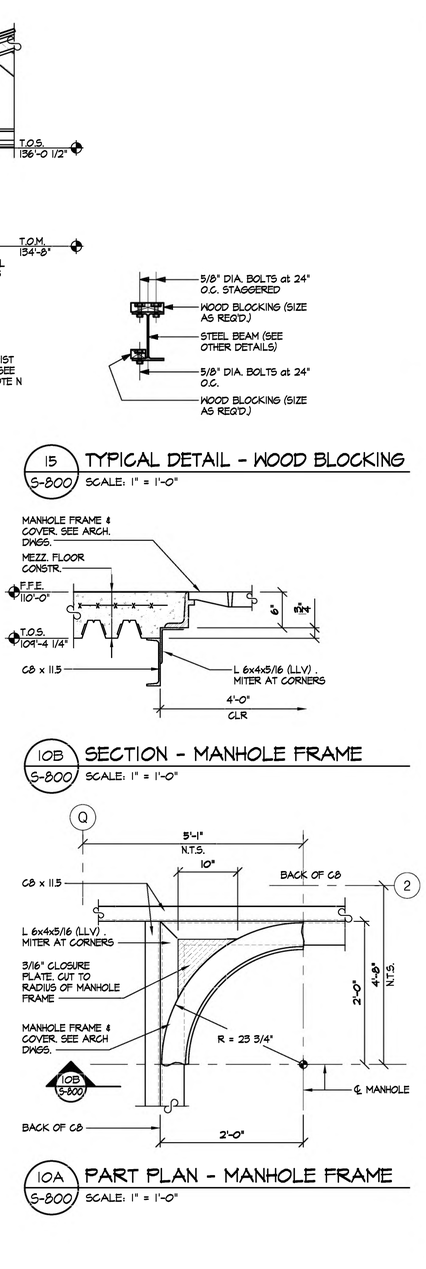
SCALE: 1" = 1'-0"

9 S-800 SECTION - FLOOR & LOW ROOF FRAMING

SCALE: 1" = 1'-0"

4 S-800 SECTION - FRAMING

SCALE: 1" = 1'-0"



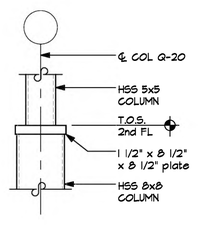
15 S-800 TYPICAL DETAIL - WOOD BLOCKING

SCALE: 1" = 1'-0"

10B S-800 SECTION - MANHOLE FRAME

10A S-800 PART PLAN - MANHOLE FRAME

SCALE: 1" = 1'-0"



5 S-800 DETAIL - COLUMN TRANSITION

SCALE: 1" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS

29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 745-4571 FAX (518) 745-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

FRAMING SECTIONS & DETAILS

SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

S-800

LINTEL AND HEADER SCHEDULE

NO.	HEADER/CMU LINTEL	VENEER LINTEL	REMARKS
L1	(2) L 4 x 3 1/2 x 5/16	NONE	8" MIN. BRG. EA. END
L2	(2) L 6 x 3 1/2 x 5/16	NONE	8" MIN. BRG. EA. END
L3	W 8 x 15 + 5/16" x 7" PL ON BOTT. FLANGE	NONE	8" MIN. BRG. EA. END
L4	W 8 x 18 + 5/16" x 11" PL ON BOTT. FLANGE	NONE	8" MIN. BRG. EA. END
L5	(2) L 5 x 5 x 5/16	L 4X3 1/2 X 5/16 (LVL)	8" MIN. BRG. EA. END
L6	(2) L 5 x 5 x 5/16	NONE	8" MIN. BRG. EA. END
L7	HSS 8x8x3/8"	NONE	SEE DTL 9/S-202
L8	(2) L 5 x 5 x 5/16	L 5X3 1/2 X 5/16 (LVL)	8" MIN. BRG. EA. END
L9	W 8 x 15 + 5/16" x 8" PL ON TOP FLANGE	NONE	8" MIN. BRG. EA. END

MARK	HEADER	POST EA. END	JAMB STUDS EA. END	SILL	VENEER LINTEL	REMARKS
L10	(2)-2x8	2x8	(2)-2x8's	2x8	L 4x3 1/2x5/16	----
L11	(2)-2x8	2x8	(3)-2x8's	2x8	L 4x3 1/2x5/16	----
L12	(2)-2x8	2x8	(2)-1 3/4" x 7 1/4" LVL	2x8	L 5x3 1/2x5/16	----
L13	(2)-2x8	2x8	(3)-1 3/4" x 7 1/4" LVL	2x8	L 4x3 1/2x5/16	----
L14	(2)-2x8	(2)-2x8	(4)-1 3/4" x 7 1/4" LVL	2x8	L 6x3 1/2x5/16	----
L15	(2)-2x8	2x8	(2)-2x8's	NONE	L 4x3 1/2x5/16	----
L16	(2)-2x8	2x8	(3)-1 3/4" x 7 1/4" LVL	NONE	L 5x3 1/2x5/16	----
L17	(2)-2x8	2x8	(2)-2x8's	NONE	L 6x6x5/16	----
L18	(2)-2x8	2x8	(2)-2x8's	2x8	L 6x6x5/16	----
L19	(2)-2x8	2x8	(3)-1 3/4" x 7 1/4" LVL	2x8	L 6x6x3/16	----

NOTES FOR MASONRY LINTELS:

1. GROUT BELOW WHERE DOUBLE ANGLE LINTELS BEAR ON MASONRY WALLS FOR 2 COURSES X 8" WIDE.
2. GROUT BELOW WHERE STEEL BEAMS WITH BEARING PLATES BEAR ON MASONRY WALLS FOR 3 COURSES X 16" WIDE.
3. H SHAPE BEAM LINTELS ON CENTERLINE OF CMU WALL U.O.N.
4. BACK TO BACK LINTELS TO BE WELDED TOGETHER WITH 1" AT 12" INTERMITTENT WELDS.
5. ALL EXTERIOR WALL STEEL LINTELS TO BE HOT DIPPED GALVANIZED.
6. FOR ANY MISCELLANEOUS OPENINGS IN WALLS NOT OTHERWISE SCHEDULED OR SHOWN, USE L4X3 1/2X5/16 LINTEL FOR EACH 4" WIDTH OF MASONRY FOR SPANS UP TO 5'-6". USE L6X3 1/2X5/16 LINTEL FOR EACH 4" WIDTH OF MASONRY SPANS UP TO 8'-0".
7. COORDINATE POSITION OF VENEER LINTEL WITH ARCHITECTURAL DRAWINGS-SPECIFICALLY AT DOOR HEADS.
8. GROUT CORE with VERTICAL REINFORCING and ADJACENT CORE - FULL HEIGHT of WALL EACH SIDE of OPENING.
9. SEE DETAILS ON S-700 AND S-SCHED-1 FOR WOOD STUD WALL CONSTRUCTION.
10. ALL DIMENSIONAL LUMBER AND ENGINEERED LUMBER TO BE FIRE RETARDANT TREATED (FRT).

DESIGN LOADS

BUILDING CODE OF NEW YORK STATE

NET ALLOWABLE SOIL BEARING PRESSURE: ..... 4,000 psf

SLABS ON GRADE LIVE LOADS:
- COMMON SPACE = ... 100 psf
- APPARATUS BAY = ... 200 psf
- POINT LOAD = ... 6250 lbs

THIRD FLOOR:
LIVE LOADS = ... 100 PSF psf
DEAD LOADS:
- FRAMING = ... 7.0 psf
- DECKING = ... 3.0 psf
- CONCRETE = ... 43.0 psf
- ELECTRICAL = ... 2.0 psf
- MECHANICAL = ... 3.0 psf
- MISC. = ... 2.0 psf

TOTAL DEAD LOADS = ... 60.0 psf

HIGH SECOND FLOOR:
LIVE LOADS = ... 100 PSF psf
DEAD LOADS:
- FRAMING = ... 7.0 psf
- DECKING = ... 3.0 psf
- CONCRETE = ... 43.0 psf
- ELECTRICAL = ... 2.0 psf
- MECHANICAL = ... 3.0 psf
- MISC. = ... 2.0 psf

TOTAL DEAD LOADS = ... 60.0 psf

SECOND FLOOR:
LIVE LOADS = ... 150 PSF psf
DEAD LOADS:
- DECKING = ... 3.0 psf
- CONCRETE = ... 75.0 psf
- ELECTRICAL = ... 2.0 psf

TOTAL DEAD LOADS = ... 80.0 psf

ROOF SNOW LOADS:
- GROUND SNOW = ... 30 psf
- FLAT ROOF SNOW psf = ... 22.1 psf
- EXPOSURE FACTOR, Ce = ... 0.9
- IMPORTANCE FACTOR, I = ... 1.2
- THERMAL FACTOR, Ct = ... 1.0
- SNOW DENSITY = ... 17.9 pcf

ROOF DEAD AND LIVE LOADS:
- ROOFING & SHEATHING = ... 3.0 psf
- FRAMING = ... 6.0 psf
- ELECTRICAL = ... 2.0 psf
- MECHANICAL = ... 3.0 psf
- INSULATION = ... 3.0 psf
- CEILING = ... 2.0 psf
- MISC. = ... 1.0 psf
- SOLAR (N.I.C.) = ... 3.0 psf

TOTAL ROOF DEAD LOADS = ... 23.0 psf

WIND LOADS:
ROOF-SIMPLIFIED PROVISIONS FOR LOW RISE BUILDINGS
- BASIC WIND SPEED (3 SEC. GUST) = ... 120 mph
- HEIGHT AND EXPOSURE FACTORS = ... 1.33
- RISK CATEGORY = ... IV

COMPONENTS & CLADDING (TABLE 1609.6.2.1(2))
(STRENGTH LEVEL LOADS)
- ROOF - PRESSURE/SUCTION: 11.50/-32.29 psf (ZONE 1); 11.50/-41.81 psf (ZONE 2); 11.50/-48.78 psf (ZONE 3)
- WALL - PRESSURE SUCTION: 28.14/-30.06 psf (ZONE 4); 28.14/-31.08 psf (ZONE 5)
- NET WIND SUCTION ON FLAT ROOFS = ... N/A
- WIND SUCTION FOR PATIO PAVER FLOOR = ... 28 psf

SEISMIC DESIGN
- MAPPED SPECTRAL RESPONSE Ss & S1 ..... 0.318, 0.064
- SEISMIC IMPORTANCE FACTOR = ... 1.5
- RISK CATEGORY = ... IV
- SITE CLASS = ... C
- SPECTRAL RESPONSE COEFF Sds = ... 0.254
- Sd1 = ... 0.078
- SEISMIC DESIGN CATAGORY = ... C
- SEISMIC RESPONSE COEFF. Cs = ... 0.07, 0.04
- RESPONSE MODIFICATION FACTOR R = ... 3, 5

- LATERAL SYSTEM 1 ..... STEEL SYSTEM NOT DETAILED FOR SEISMIC RESISTANCE
- LATERAL SYSTEM 2 ..... ORDINARY REINFORCED CONCRETE SHEAR WALLS
- BASE SHEAR = ... 0.07 W, 0.04 W
- PROCEDURE ..... EQUIVALENT LATERAL FORCE

FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
F30	3'-0" SQ. x 12"	(4)-#5's x 2'-6" LG. EACH WAY	PROVIDE REINFORCING 3" FROM BOTTOM of FOOTING
F40	4'-0" SQ. x 12"	(6)-#5's x 3'-6" LG. EACH WAY	PROVIDE REINFORCING 3" FROM BOTTOM of FOOTING
F46	4'-6" SQ. x 12"	(7)-#5's x 4'-0" LG. EACH WAY	PROVIDE REINFORCING 3" FROM BOTTOM of FOOTING
F50	5'-0" SQ. x 12"	(7)-#6's x 4'-6" LG. EACH WAY	PROVIDE REINFORCING 3" FROM BOTTOM of FOOTING
F56	5'-6" SQ. x 12"	(8)-#6's x 5'-0" LG. EACH WAY	PROVIDE REINFORCING 3" FROM BOTTOM of FOOTING
F60	6'-0" SQ. x 1'-2"	(9)-#6's x 5'-6" LG. EACH WAY	PROVIDE REINFORCING 3" FROM BOTTOM of FOOTING
F66	6'-6" SQ. x 12"	(9)-#6's x 6'-0" LG. EACH WAY	PROVIDE REINFORCING 3" FROM BOTTOM of FOOTING
F76	7'-6" SQ. x 1'-6"	(11)-#6's x 7'-0" LG. EACH WAY	PROVIDE REINFORCING 3" FROM BOTTOM of FOOTING
F80	8'-0" SQ. x 1'-6"	(12)-#6's x 7'-6" LG. EACH WAY	PROVIDE REINFORCING 3" FROM BOTTOM of FOOTING
F6020	6'-0" SQ. x 2'-0"	(9)-#6's x 5'-6" LG. EACH WAY	PROVIDE REINFORCING 3" FROM BOTTOM of FOOTING
F6626	6'-6" SQ. x 2'-6"	(9)-#6's x 6'-0" LG. EACH WAY	PROVIDE REINFORCING 3" FROM BOTTOM of FOOTING

PIER SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
P14	1'-4" x 1'-4"	(4)-#5's VERT BARS W/ #3 TIES AT 10" O.C.	
P16	1'-6" x 1'-6"	(4)-#6's VERT BARS W/ #3 TIES AT 12" O.C.	
P20	2'-0" x 2'-0"	(8)-#6's VERT BARS W/ #3 TIES AT 12" O.C.	SEE DETAIL 5/S-106
P30	3'-0" x 3'-0"	(12)-#7's VERT BARS W/ #3 TIES AT 14" O.C.	SEE DETAIL 5/S-106

NOTE: HOOK VERTICAL BARS INTO FOOTING

SLAB ON GRADE (S.O.G.) SCHEDULE

- SOG #1: 4", 3500 PSI CONCRETE SLAB ON GRADE W/ 6x6 W2.0xW2.0 MWM AND FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 1.5 POUNDS PER CUBIC YARD.
- SOG #2: 7 1/2", 6000 PSI CONCRETE SLAB ON GRADE W/ 6x6 W4.0xW4.0 MWM AND 6x6 W2.0xW2.0 MWM AND FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 1.5 POUNDS PER CUBIC YARD. SEE DETAIL 8/S-102
- SOG #3: 4", 4000 PSI CONCRETE SLAB ON GRADE W/ 6x6 W2.0xW2.0 MWM AND FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 1.5 POUNDS PER CUBIC YARD. (EXTERIOR MAN DOOR SLABS, RAMPS & SIDEWALKS)
- SOG #4: 7 1/2" THICK, 6000 PSI CONCRETE SLAB ON GRADE W/ #4@ at 10" O.C. EA WAY AND FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 1.5 POUNDS PER CUBIC YARD. (APRON SLABS, SEE DETAIL 8/S-101)
- SOG #5: 5", 3500 PSI CONCRETE SLAB ON GRADE W/ (2) LAYERS 6x6 W2.1xW2.1 MWM AND FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 1.5 POUNDS PER CUBIC YARD. SEE DETAIL 5/S-105
- SOG #6: 6", 3500 PSI CONCRETE SLAB ON GRADE W/ (2) LAYERS 6x6 W2.1xW2.1 MWM AND FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 1.5 POUNDS PER CUBIC YARD. SEE DETAIL 5/S-105
- SOG #12: 12", 3500 PSI CONCRETE SLAB ON GRADE with #5's AT 12" O.C. EA WAY AT MID DEPTH, WITH FIBERMESH (POLYPROPYLENE) REINFORCEMENT AT 1.5 POUNDS PER CUBIC YARD. SEE DETAIL 15/S-102

NOTE: SOG #2 & SOG #5 HAVE RADIANT FLOOR HEAT and RIGID INSULATION BELOW THE SLAB. SEE ME & P DRAWINGS.

FRAMED BEAM to COLUMN CONNECTIONS

BEAMS (kips)	(kips)	FRAMING ANGLES (#, SIZE & LEN.)	BOLTS(I)	WELD	CAPACITY
W8	6	(2) L 4 x 3 1/2 x 5/16 x 0'-5 1/2"	(2)	1/4	14.0
W10	6	(2) L 4 x 3 1/2 x 5/16 x 0'-5 1/2"	(2)	1/4	14.0
W12	10	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(3)	1/4	32.0
W14	14	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(3)	1/4	32.0
W14x74	29	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(3)	1/4	32.0
W16	22	(2) L 4 x 3 1/2 x 5/16 x 0'-11 1/2"	(4)	1/4	55.0
W18	30	(2) L 4 x 3 1/2 x 5/16 x 0'-11 1/2"	(4)	1/4	55.0
W18x86	48	(2) L 4 x 3 1/2 x 5/16 x 0'-11 1/2"	(4)	1/4	55.0
W21	28	(2) L 4 x 3 1/2 x 5/16 x 1'-2 1/2"	(5)	1/4	76.0
W21x62, 68, 73	42	(2) L 4 x 3 1/2 x 5/16 x 1'-2 1/2"	(5)	1/4	76.0
W21x83	55	(2) L 4 x 3 1/2 x 5/16 x 1'-2 1/2"	(5)	1/4	76.0
W24	50	(2) L 4 x 3 1/2 x 5/16 x 1'-5 1/2"	(6)	1/4	100.0
W27	74	(2) L 4 x 3 1/2 x 5/16 x 1'-5 1/2"	(6)	1/4	100.0
W30	120	(2) L 4 x 3 1/2 x 5/16 x 1'-8 1/2"	(7)	1/4	125.0

1. REPRESENTS THE TOTAL NUMBER OF DOUBLE SHEAR A 325-N BOLTS THROUGH THE BEAM WEB IN THE FRAMING ANGLES.
2. ALL BOLT TIGHTENING SHALL BE DONE TO THE SNUG TIGHT CRITERIA.
3. FRAMING ANGLES ARE TO BE WELDED TO TUBE COLUMNS WITH PREQUALIFIED FILLET WELDS. LEGS OF ANGLES AGAINST TUBE COLUMNS ARE TO BE TRIMMED SO THAT FILLET WELDS CAN BE MADE.
4. OTHER CONNECTIONS ARE SIMILAR.
5. ALL LOADS ARE SERVICE LOADS.

FRAMED BEAM to GIRDER CONNECTIONS

BEAMS (kips)	(kips)	FRAMING ANGLES (#, SIZE & LEN.)	BOLTS(I)	WELD	CAPACITY
W8	6	(2) L 4 x 3 1/2 x 5/16 x 0'-5 1/2"	(4)	1/4	19.0
W10	6	(2) L 4 x 3 1/2 x 5/16 x 0'-5 1/2"	(4)	1/4	19.0
W12	10	(2) L 4 x 3 1/2 x 5/16 x 0'-5 1/2"	(4)	1/4	19.0
W14	14	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(6)	1/4	21.0
W14x43, 53	21	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(6)	1/4	42.0
W16	14	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(6)	1/4	34.0
W18	20	(2) L 4 x 3 1/2 x 5/16 x 0'-8 1/2"	(6)	1/4	45.0
W21	25	(2) L 4 x 3 1/2 x 5/16 x 0'-11 1/2"	(8)	1/4	58.0
W21x62, 68, 73	42	(2) L 4 x 3 1/2 x 5/16 x 0'-11 1/2"	(8)	1/4	71.0
W21x83, 93	55	(2) L 4 x 3 1/2 x 5/16 x 0'-11 1/2"	(8)	1/4	84.0
W21x101	75	(2) L 4 x 3 1/2 x 5/16 x 1'-5 1/2"	(12)	1/4	124.0
W24	25	(2) L 4 x 3 1/2 x 5/16 x 1'-2 1/2"	(10)	1/4	82.0
W27	34	(2) L 4 x 3 1/2 x 5/16 x 1'-5 1/2"	(12)	1/4	114.0
W27x84	65	(2) L 4 x 3 1/2 x 5/16 x 1'-5 1/2"	(12)	1/4	114.0

1. REPRESENTS THE TOTAL NUMBER OF SINGLE SHEAR A 325-N BOLTS THROUGH THE GIRDER WEB IN THE FRAMING ANGLES.
2. ALL BOLT TIGHTENING SHALL BE DONE TO THE SNUG TIGHT CRITERIA.
3. FRAMING ANGLES ARE TO BE WELDED TO BEAM WEB WITH PREQUALIFIED FILLET WELDS.
4. OTHER CONNECTIONS ARE SIMILAR.
5. ALL LOADS ARE SERVICE LOADS.

FRAMED BEAM to COLUMN CONNECTIONS - SINGLE SHEAR PLATE

BEAMS	REACTION (kips)	SHEAR PLATE (thick x length)	BOLTS(I)	WELD	CAPACITY (kips)
W8	6	3/8" x 0'-6"	(2) - 3/4" dia.	1/4	16.5
W10	6	3/8" x 0'-6"	(2) - 3/4" dia.	1/4	16.5
W12	10	3/8" x 0'-9"	(3) - 3/4" dia.	1/4	28.8
W14	14	3/8" x 0'-9"	(3) - 3/4" dia.	1/4	28.8
W14x74	29	3/8" x 0'-9 1/2"	(3) - 1" dia.	1/4	40.0
W16	22	3/8" x 1'-0"	(4) - 3/4" dia.	1/4	41.0
W18	30	3/8" x 1'-0"	(4) - 3/4" dia.	1/4	41.0
W18x86	43	3/8" x 1'-3"	(5) - 3/4" dia.	1/4	55.0
W21x44, 50, 57	28	3/8" x 1'-3"	(5) - 3/4" dia.	1/4	55.0

1. REPRESENTS THE TOTAL NUMBER OF SINGLE SHEAR A-325 N BOLTS THROUGH THE BEAM WEB.
2. ALL BOLTS TIGHTENING SHALL BE DONE TO THE SNUG TIGHT CRITERIA.
3. OTHER CONNECTIONS ARE SIMILAR.
4. ALL LOADS ARE SERVICE LOADS.

TESTING & INSPECTIONS

PER CHAPTER 17 OF THE BUILDING CODE OF NEW YORK STATE 2007

CAST-IN-PLACE CONCRETE

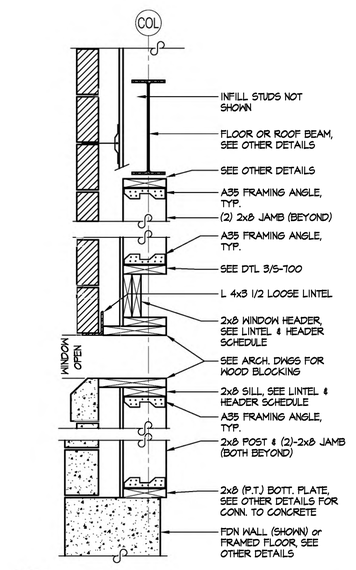
ITEM	AGENT	C=CONTINUOUS P=PERIODIC	SCOPE
1. MATERIAL CERTIFICATION	1	P	REVIEW FOR CONFORMANCE TO SPECIFICATIONS.
2. MIX DESIGN	1	P	REVIEW MIX DESIGN.
3. BATCHING PLANT	2	P	REVIEW PLANT QUALITY CONTROL PROCEDURES, BATCHING AND MIXING METHODS.
4. FORMWORK GEOMETRY	2	P	INSPECT FORMS SIZES.
5. REINFORCEMENT INSTALLATION	2	P	INSPECT REINFORCING FOR SIZE, QUANTITY, CONDITION AND PLACEMENT.
6. ANCHOR BOLT INSTALLATION	2	C	INSPECT ANCHOR BOLT INSTALLATION PRIOR TO AND DURING CONCRETE PLACEMENT.
7. CONCRETE PLACEMENT & SAMPLING	2	C	OBSERVE CONCRETE PLACEMENT OPERATIONS, VERIFY CONFORMANCE TO SPEC. INCLUDING PLACEMENT PROCEDURES. PERFORM SLUMP, DENSITY AND AIR TEST AT POINT OF DISCHARGE.
8. EVALUATION OF CONCRETE STRENGTH	1 & 2	P	TEST AND EVALUATE IN ACCORDANCE WITH THE SPECIFICATIONS. REVIEW ALL TEST REPORTS.
9. CURING AND PROTECTION	2	P	OBSERVE PROCEDURE FOR CONFORMANCE TO SPECIFICATION.

STRUCTURAL STEEL

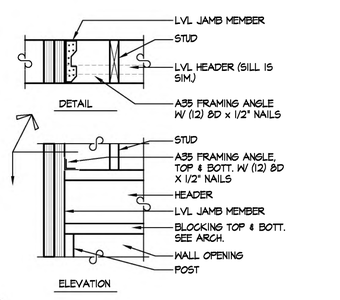
ITEM	AGENT	C=CONTINUOUS P=PERIODIC	SCOPE
1. FABRICATOR CERTIFICATION	1	P	REVIEW FABRICATOR QUALITY CONTROL MANUALS. VERIFY FABRICATOR IS REGISTERED AND APPROVED.
2. STEEL MATERIAL CERTIFICATION	1	P	REVIEW FOR CONFORMANCE TO THE SPECIFICATIONS.
3. BOLT MATERIAL CERTIFICATION	1	P	REVIEW FOR CONFORMANCE TO THE SPECIFICATIONS.
4. WELD MATERIAL CERTIFICATION	1	P	REVIEW FOR CONFORMANCE TO THE SPECIFICATIONS.
5. STRUCTURAL DETAILS	2	P	INSPECT FOR SIZE, GRADE OF STEEL, CAMBER, INSTALLATION AND CONNECTION DETAILS. CHECK AGAINST APPROVED CONSTRUCTION DOCUMENTS AND SHOP DRAWINGS.
6. INSPECTION OF HIGH STRENGTH BOLTING	2	P C	BEARING TYPE CONNECTIONS. SLIP CRITICAL TYPE CONNECTING.
7. INSPECTION OF WELDING	1 & 2	C C C P P	COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. MULTIPASS FILLET WELDS. SINGLE PASS FILLET WELDS > 5/16". SINGLE PASS FILLET WELDS < 5/16". FLOOR & ROOF DECK WELDS.
8. OPEN WEB STEEL JOIST	1	P	REVIEW PLANT CERTIFICATION TO INSURE THAT IT IS A MEMBER OF "SJI".
9. PREFABRICATED METAL ROOF TRUSSES	1	P	REVIEW PLANT CERTIFICATION OR LABELED PRODUCT(S).
10. METAL DECK	1	P	VERIFY GAUGE, WIDTH, TYPE. INSPECT PLACEMENT, LAPS, HELDS, SIDELAP CONNECTIONS, SCREWS. CHECK WELDER CERTIFICATIONS.

MASONRY (LEVEL 2)

ITEM	AGENT	C=CONTINUOUS P=PERIODIC	SCOPE
1. MORTAR & GROUT MIX DESIGNS	1	P	REVIEW FOR CONFORMANCE TO SPECIFICATIONS.
2. MATERIAL CERTIFICATION	1	P	REVIEW FOR CONFORMANCE TO SPECIFICATIONS.
3. MIXING OF MORTAR AND GROUT	2	P	INSPECT FIELD MIXING PROCEDURES AND TECHNIQUE FOR CONFORMANCE TO SPECIFICATIONS.
4. INSTALLATION OF MASONRY	2	P	INSPECT PLACEMENT FOR CONFORMANCE TO SPECIFICATIONS INCLUDING SIZE AND LOCATION OF STRUCTURAL ELEMENTS INCLUDING SHEAR WALLS, BOND BEAMS, PILASTERS, ECT.
5. INSTALLATION OF REINFORCING	2	P	INSPECT DOWELS, REINFORCING AND EXPANSION BOLTS FOR SIZE, SPACING, PLACEMENT, LAP SPLICES, AND CONFORMANCE TO APPROVED SUBMITTALS AND CONSTRUCTION DOCUMENTS .
6. GROUTING OPERATION	2	C	INSPECT GROUTING PROCEDURES AND PLACEMENT FOR CONFORMANCE WITH SPECIFICATIONS. INSPECT GROUT SPACE PRIOR TO GROUTING.
7. WEATHER PROTECTION	2	P	INSPECT PROTECTION FOR COLD, HOT AND WET WEATHER CONDITIONS AND CONFORMANCE WITH SPECIFICATIONS.
8. EVALUATION OF MASONRY STRENGTH	1 & 2	C	VERIFY STRENGTH IN ACCORDANCE WITH THE SPECIFICATIONS. REVIEW ALL TEST REPORTS.
9. ANCHORS AND TIES	2	C	INSPECT ANCHORAGE OF MASONRY ELEMENTS TO ONE ANOTHER, STRUCTURAL MEMBERS, FRAMES OR TO OTHER CONSTRUCTION FOR CONFORMANCE TO CONSTRUCTION DOCUMENTS.

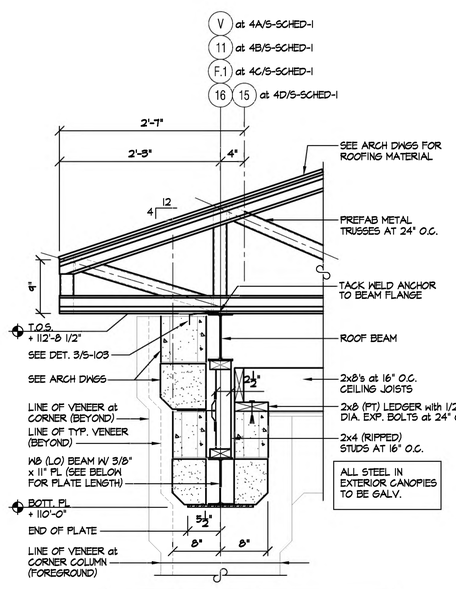


1 / S-SCHED-1 — SECTION - LINTEL ASSEMBLY L10
SCALE: 1" = 1'-0"



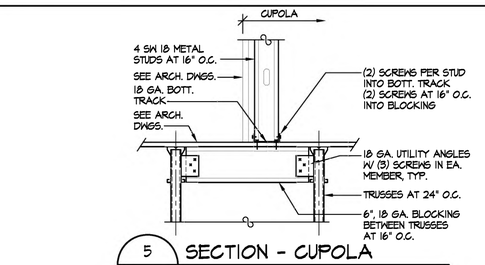
2 / S-SCHED-1 — SECTION - L12 HEADER CONN TO LVL JAMB
SCALE: 1" = 1'-0"

3 / S-SCHED-1 — SECTION - L12 SILL CONN TO LVL JAMB
SCALE: 1" = 1'-0"

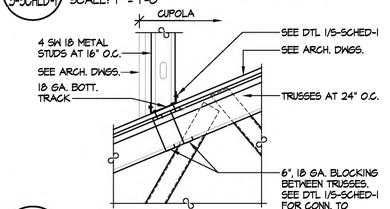


AT DTL	PLATE LENGTH	START PLATE
4A/S-SCHED-1	4'-3 1/2"	1'-0 1/4" EAST OF GRID 11
4B/S-SCHED-1	7'-1 1/2"	1'-0 1/4" NORTH OF GRID V
4C/S-SCHED-1	3'-11 1/2"	1'-0 1/4" EAST OF GRID 16
4D/S-SCHED-1	5'-3 1/2"	1'-0 1/4" NORTH OF GRID F.1

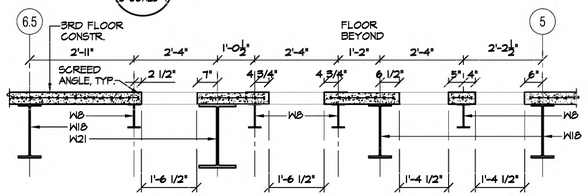
4A,B,C&D / S-SCHED-1 — SECTION - CANOPY ROOF
SCALE: 1" = 1'-0"



5 / S-SCHED-1 — SECTION - CUPOLA
SCALE: 1" = 1'-0"



6 / S-SCHED-1 — SECTION - CUPOLA
SCALE: 1" = 1'-0"



7 / S-SCHED-1 — SECTION - THIRD FL CHASE
SCALE: 1/2" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C. CIVIL ENGINEERS

CRAIG A. MALONEY STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES CONSULTING ENGINEERS, P.C. MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

SCHEDULES

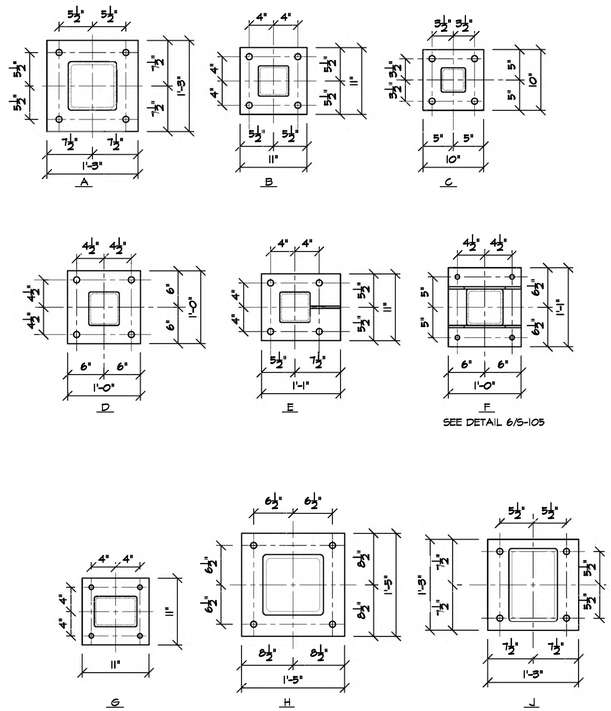
SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

S-SCHED-1

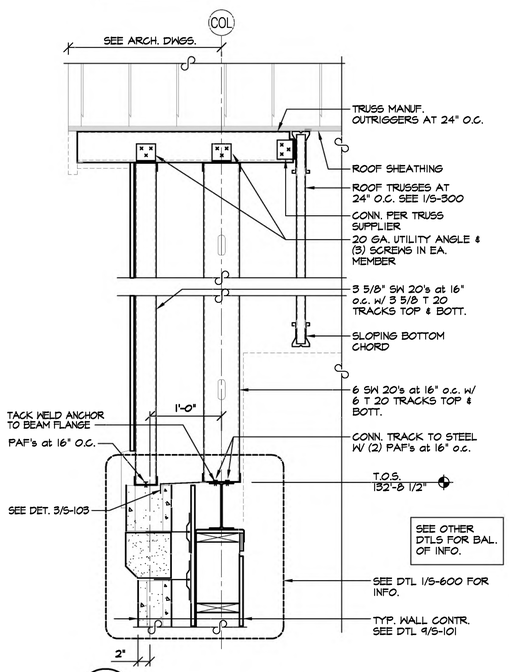
COLUMN SCHEDULE

ELEVATIONS	COLUMN LOCATIONS																																
	A-7	A-9 A-15 C-15 E-15	B-2 B-5 C-2	B-7	C-7 G-9	C-9	E-2 H-8	E-5	F-14 I-14	F.1-16 V-11	G-7	H-2	H-5	H-7	H-9	H-12 K-2	J-6.5	J-12	L-13 N-13 Q-13 T-13	L-6 R-6	M-1 P-1	M-1.5 P-1.5	N-5 T-5 T-8	N-12 Q-12	Q-2 S-2	T-12	U-2 U-4 U-5 U-8	U-3	U-10 U-12	X-3 X-4	X-7 X-8	X-10
TOP OF COLUMN ELEVATION 134'-0 1/2"	12'-9 1/2"	12'-8 1/2"	34'-0 1/2"	34'-0 1/2"	34'-0 1/2"	19'-0"	19'-8"	19'-8"	16'-0 1/2"	12'-9 1/2"	34'-0 1/2"	36'-0 1/2"	36'-0 1/2"	36'-0 1/2"	36'-0 1/2"	36'-0 1/2"	19'-8"	36'-0 1/2"	36'-0 1/2"	36'-0 1/2"	36'-0 1/2"	36'-0 1/2"	19'-8"	19'-8"	36'-0 1/2"	36'-0 1/2"	36'-0 1/2"	W 14	36'-0 1/2"	32'-8 1/2"	32'-8 1/2"	32'-8 1/2"
TOP OF STEEL SECOND FLOOR 119'-8"			HSS 5x5x1/2	HSS 5x5x1/2	HSS 5x5x1/2						HSS 5x5x1/2	HSS 5x5x1/2	HSS 5x5x1/2	HSS 5x5x1/2	HSS 5x5x1/2	HSS 5x5x5/16	HSS 5x5x1/2	HSS 5x5x1/2	HSS 5x5x5/16	HSS 5x5x1/2	HSS 6x6x5/8 @ALV.	HSS 5x5x5/16			HSS 5x5x1/2	HSS 5x5x1/2	HSS 5x5x1/2	HSS 5x5x1/2	W 14 HSS 5x5x5/16	HSS 5x5x1/2	HSS 5x5x5/16	HSS 5x5x5/16
FINISHED FLOOR - LOW MEZZANINE 110'-0"	W 14		HSS 8x8x5/8	10'-4"	HSS 8x8x5/8		HSS 8x8x5/8	HSS 8x8x5/8			HSS 8x8x1/2	HSS 8x8x1/2	HSS 8x8x1/2	HSS 8x8x5/8	HSS 8x8x5/8	HSS 8x8x5/8	W 18 HSS 8x8x1/2 @ALV.	W 18 HSS 12x8x5/8	14'-2"	W 21 W 27	20'-1"	19'-5"		W 27 W 18 HSS 12x8x5/8	HSS 5x5x1/2	W 24 HSS 12x8x5/8	HSS 5x5x1/2	W 21	HSS 8x8x5/8	HSS 8x8x5/8	HSS 8x8x5/8	HSS 6x6x5/8
BOTTOM OF BASE PLATE ELEVATION 100'-1"	HSS 6x6x1/2	HSS 5x5x5/16		W 14		HSS 6x6x5/8	GALV. @ H-8 ONLY		HSS 5x5x5/16	HSS 6x6x5/8 @ALV.													HSS 10x10x5/8									
99'-5"																																
98'-9"																																
BASE PLATE SIZE	3/4" x 1'-0" x 1'-0"	3/4" x 11" x 11"	3/4" x 1'-3" x 1'-3"	1/2" x 10" x 11"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-0" x 1'-0"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-3" x 1'-3"	3/4" x 11" x 11"	3/4" x 1'-1" x 11"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-3" x 1'-3"	1" x 1'-3" x 1'-3"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-3" x 1'-3"	1/4" CLOSURE PL	1/2" x 10" x 11"	3/4" x 1'-1" x 11"	3/4" x 11" x 11"	1" x 1'-5" x 1'-5"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-3" x 1'-3"	1/2" x 6 1/2" x 11"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-3" x 1'-3"	3/4" x 1'-0" x 1'-0"
BASE PLATE TYPE	D	B	A		A	D	A	A	B	F	A	A	A	A	A	A	A	L		F	B	H	L	A	L	A		A	A	A	D

1. PROVIDE 1/8" CLOSURE PLATES ON ALL TUBE STEEL COLUMNS.
2. PROVIDE (4) 3/4" DIAMETER x 16" LONG ANCHOR BOLTS AT EACH COLUMN. U.O.N.
3. PROVIDE (4) 1" DIAMETER x 24" O.C. ANCHOR BOLTS AT HSS 8x8 COLUMNS.
4. COLUMNS ADJACENT TO MASONRY TO HAVE MASONRY ANCHORS AT 16" O.C. VERTICALLY. SEE SPEC FOR ANCHOR TYPE.
5. SEE DETAIL 5/S-800 FOR COLUMN SIZE TRANSITION



BASE PLATE TYPES

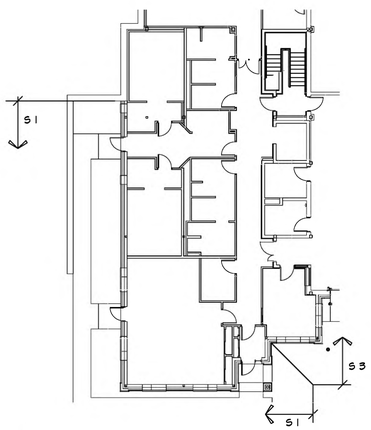


1 / S-SCHED-2 SECTION - GABLE ROOF FRAMING
SCALE: 1" = 1'-0"

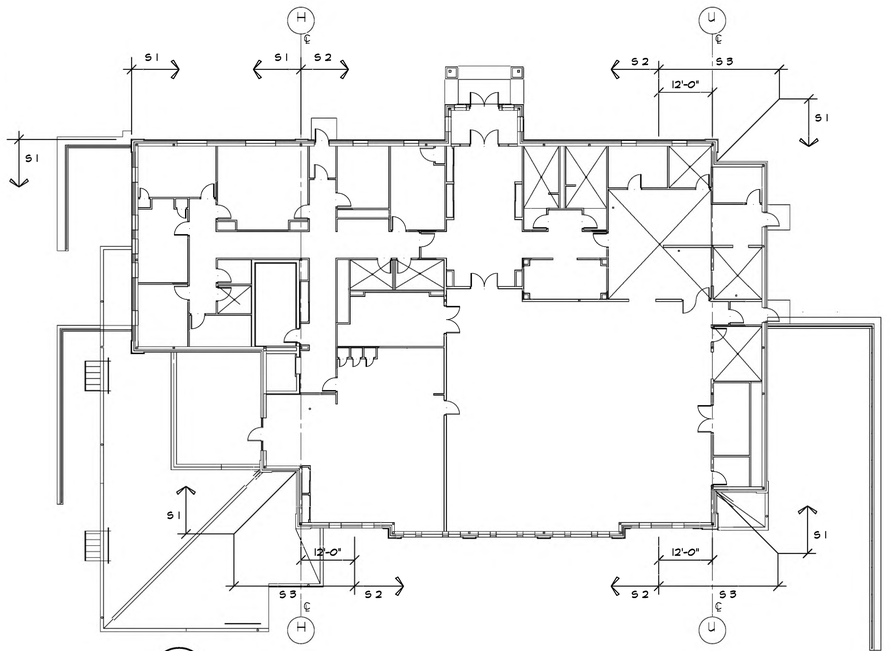
WALL STUD SCHEDULE

MARK	STUD SIZE & SPACING
S1	2x8's at 16" o.c.
S2	2x8's at 12" o.c.
S3	(2) 2x8's at 16" o.c.

NOTE:
ALL DIMENSIONAL LUMBER AND ENGINEERED LUMBER TO BE FIRE RETARDANT TREATED (FRT).



2 / S-SCHED-2 1st FLOOR WALL STUD KEY PLAN
SCALE: 1/16" = 1'-0"



3 / S-SCHED-2 3rd FLOOR WALL STUD KEY PLAN
SCALE: 1/16" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 745-4571 FAX (518) 745-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
CIVIL ENGINEERS

CRAIG A. MALONEY
STRUCTURAL ENGINEERING CONSULTANT

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL

COPYRIGHT 2020
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

STATUS: FOR BIDDING

COLUMN SCHEDULE & WALL STUD KEY PLANS

SCALE: AS NOTED
DWG. BY: JC/CAM
DWG DATE: 08/14/2020
DWG ID#:

S-SCHED-2

ABBREVIATIONS

A.B.	ANCHOR BOLT	MAX.	MAXIMUM
ABV.	ABOVE	M.C.	MECHANICAL CONTRACTOR
A.F.F.	ABOVE FINISHED FLOOR	M.C.P.	MASONRY COURSING POINT
ACT	ACOUSTICAL CEILING TILE	M.D.O.	MEDIUM DENSITY OVERLAY
AC.	AIR CONDITIONER	MECH.	MECHANICAL
AHU	AIR HANDLER UNIT	MED.	MEDIUM
ALT.	ALTERNATE	MEZZ.	MEZZANINE
ALUM.	ALUMINUM	MM	MILLIMETER
APPROX.	APPROXIMATE	MIN.	MINIMUM
ARCH.	ARCHITECTURAL	MISC.	MISCELLANEOUS
@	AT	M.J.	MOVEMENT JOINT
		M.O.	MASONRY OPENING
B.F.F.	BELOW FINISHED FLOOR	M.R.	MOISTURE RESISTANT
BD.	BOARD	M.S.B.	MOP SINK BASIN
B/O	BOTTOM OF	MSP	METAL SOFFIT PANEL
B.O.F.	BOTTOM OF FOOTING	MTD	MOUNTED
BM.	BEAM	MTG.	MEETING
BTU	BRITISH THERMAL UNIT	MTL.	METAL
BTUH	BRITISH THERMAL UNIT PER HOUR		
BLDG.	BUILDING	NA	NOT APPLICABLE
BRG.	BEARING	N.I.C.	NOT IN CONTRACT
		NL	NIGHT LIGHT
CPT	CERAMIC FLOOR TILE	N.R.	NOISE REDUCTION
CAT	COMPRESSED AIR TAP	N.F.S.H.	NON FREEZE WALL HYDRANT
CB	CATCH BASIN	N.R.C.	NOISE REDUCTION COEFFICIENT
CD	CEILING DIFFUSER	N.T.S.	NOT TO SCALE
CG.	CEILING GRILL		
C.I.	CAST IRON	O.A.	OVERALL
℄	CENTERLINE	O.C.	ON CENTER
CLG.	CEILING	OCC.	OCCUPANCY
C.O.	CLEANOUT	OD.	OUTSIDE DIAMETER
COL.	COLUMN	OFF.	OFFICE
CONC.	CONCRETE	O.H.	OVERHEAD
CONF.	CONFERENCE	OPP.	OPPOSITE
CONN.	CONNECTION	OPNG.	OPENING
C.M.U.	CONCRETE MASONRY UNIT	OPT.	OPTIONAL
CONST.	CONSTRUCTION	ORIG.	ORIGINAL
CONT.	CONTINUOUS	OVHD	OVERHEAD
COORD.	COORDINATE		
C.F.M.	CUBIC FEET PER MINUTE	PAF	POWER ACTUATED FASTENER
CPT	CARPET TILE	PAVT.	PAVEMENT
C.T.	CERAMIC TILE	/FT.	PER FOOT
CJ	CONTROL JOINT	P.C.	PLUMBING CONTRACTOR
CY	CUBIC YARD	PERF.	PERFORATED
		PERIM.	PERIMETER
DEMO	DEMOLITION	PERP.	PERPENDICULAR
DF	DRINKING FOUNTAIN	PL.	PLATE
DIA. OR Ø	DIAMETER	P.LAM.	PLASTIC LAMINATE
DIM.	DIMENSION	PLUMB.	PLUMBING
DISP.	DISPENSER	PLYWD.	PLYWOOD
DHW.	DOMESTIC HOT WATER HEATER	PNT	PAINT
DBL.	DOUBLE	POLY	POLYETHYLENE
DN.	DOWN	PREFAB	PREFABRICATED
DO.	DITTO	PREFIN.	PREFINISHED
D.S.	DOWNSPOUT	PRELIM.	PRELIMINARY
DW	DISHWASHER	PROJ.	PROJECT
DWG.	DRAWING	PROP.	PROPERTY
		PRV	POWER ROOF VENT
EA.	EACH	P.S.F.	POUNDS PER SQUARE FOOT
E.C.	ELECTRICAL CONTRACTOR	P.S.I.	POUNDS PER SQUARE INCH
EPC	EPOXY FLOOR COATING	P.T.	PRESSURE TREATED
E.I.F.S.	EXTERIOR INSULATION & FINISH SYSTEM	PVC	POLYVINYL CHLORIDE
EJ.	EXPANSION JOINT	PWR	POWER
ELEC.	ELECTRICAL		
ELEV.	ELEVATION	Q.T.	QUARRY TILE
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	QTY	QUANTITY
EQ.	EQUAL		
EQUIP.	EQUIPMENT	R.	THERMAL RESISTANCE
EQUIV.	EQUIVALENT	RAD.	RADIUS
ERU	ENERGY RECOVERY UNIT	R.C.P.	REFLECTED CEILING PLAN
E.W.	EACH WAY	RD.	ROOF DRAIN
EXH.	EXHAUST	REFRIG.	REFRIGERATOR
EXIST.	EXISTING	REINF.	REINFORCEMENT
EXP.	EXPOSED OR EXPANSION	RE.	ROOF EXHAUST
EXT.	EXTERIOR	REQ'D.	REQUIRED
		RET.	RETAIN
F.A.I.	FRESH AIR INLET	R.F.	RESILIENT FLOORING
F.B.O.	FURNISHED BY OTHERS	R.H.	RIGHT HAND
F.C.	FIRE CODE	RM.	ROOM
FDC	FIRE DEPARTMENT CONNECTION	R.O.	ROUGH OPENING
FD.	FLOOR DRAIN	R.O.B.	RUN OF BANK GRAVEL
FE.	FIRE EXTINGUISHER	RTU	ROOF TOP UNIT
FEC.	FIRE EXTINGUISHER CABINET	RV.	ROOF VENT
F.F.E.	FINISH FLOOR ELEVATION	RFT	RUBBER FLOOR TILE
FF & E	FURNITURE, FIXTURES, AND EQUIPMENT	RST	RUBBER STAIR TREAD
FIN.	FINISH	RFP	RESILIENT FLOOR TILE
FLR.	FLOOR		
FND.	FOUNDATION	S.A.C.	SUSPENDED ACOUSTICAL CEILING
FR	FIRE RETARDANT	S.C.	SOLID CORE OR SEALED CONCRETE
F.O.W.	FACE OF WATERTABLE	SCHED.	SCHEDULE
FRP	FIBER REINFORCED PLASTIC PANELS	SECT.	SECTION
F.S.	FLOOR SINK	S.F.	SQUARE FOOT
FT	FOOT	S.G.F.	SELECT GRANULAR FILL
FTG.	FOOTING	SHT.	SHEET
FUR.	FURRING	SIM.	SIMILAR
FURN.	FURNITURE	SPEC.	SPECIFICATIONS
F/U	FACE OF WALL	SPR	SPRUCE PINE FIR
		S/S or S.S.	STAINLESS STEEL
GA.	GAUGE	STC.	SOUND TRANSMISSION COEFFICIENT
GALV.	GALVANIZED	STL.	STEEL
G.B.	GRAB BAR	STOR.	STORAGE
G.C.C.	GENERAL CONSTRUCTION CONTRACTOR	STRUCT.	STRUCTURAL
G.F.I.	GROUND FAULT INTERUPTER	SUSP.	SUSPENDED
GLZ.	GLAZING		
GYP.	GYPSUM	T.A.F.S.	TEXTURED ACRYLIC FINISH SYSTEM
GWB/G.W.B.	GYPSUM WALL BOARD	T.B.B.	TOP OF BOND BEAM
		T.D.	TRENCH DRAIN
HB	HOSE BIBB	TEL.	TELEPHONE
H.C.	HOLLOW CORE	TEMP.	TEMPORARY
HDWD	HARDWOOD	THLD	THRESHOLD
HGT.	HEIGHT	T&G	TONGUE AND GROOVE
H.M.	HOLLOW METAL	THK	THICK
HND	HAND	T.O.	TOP OF
H.P.	HIGH POINT	T.O.C.	TOP OF CONCRETE
HORIZ.	HORIZONTAL	T.O.F.	TOP OF FOOTING
HR.	HOUR	T.O.M.	TOP OF MASONRY
HVAC.	HEATING, VENTILATING & AIR CONDITIONING	T.O.S.	TOP OF STEEL BAR JOIST OR BEAM
HYD.	HYDRANT	T.O.W.	TOP OF WALL
		T.S.	TUBE STEEL
INCL.	INCLUDE	TV	TELEVISION
INSUL.	INSULATION	TYP.	TYPICAL
INT.	INTERIOR	TYPE 'X'	FIRE CODE GWB
INV.	INVERT		
ISO.	ISOMETRIC	U.C.	UNDER CABINET
		U.H.	UNIT HEATER
JAN.	JANITOR	U.G.	UNDER GROUND
JT.	JOINT	U.O.N.	UNLESS OTHERWISE NOTED
		UTIL.	UTILITY
KIT.	KITCHEN		
		V.B.	VAPOR BARRIER
L.	LENGTH	V.C.T.	VINYL COMPOSITION TILE
LAM.	LAMINATE	VEL.	VELOCITY
LAV.	LAVATORY	VERT.	VERTICAL
LB.	POUND	VEST.	VESTIBULE
L.F.	LINEAR FEET	V.T.R.	VENT TO ROOF
L.H.	LEFT HAND		
LIN.	LINEAR	W/	WITH
		WC	WATERCLOSET
LOC.	LOCATION	WD.	WOOD
		WDW.	WINDOW
MAINT.	MAINTENANCE	WF	WIDE FLANGE
MAN.	MANUAL	W.G.	WALL GRILL
MANUF.	MANUFACTURER	W/O	WITHOUT
MAS.	MASONRY	WR.	WATER RESISTANT
MAT'L.	MATERIAL		

SYMBOL LEGEND

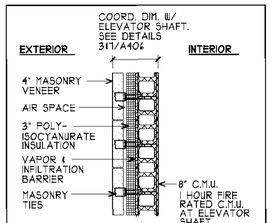
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
DWG# 1 / SHT# A-100	BUILDING SECTION OR DETAIL SECTION INDICATION	ELEV. X'-XX"	ELEVATION INDICATION (HT.)
DWG# 1 / SHT# A-100 A	ELEVATION INDICATION	1	REVISION MARK
DWG# 1 / SHT# A-100	DETAIL INDICATION	15	WALL TYPE INDICATION
RE: DWG#/SHT#	REFER TO SHEET # INDICATION	101	ROOM NUMBER SYMBOL
X/XXX	ORIGIN OF DETAIL	118	DOOR MARK
		1	KEY NOTE MARK
		W1	WINDOW MARK
		EP	ELECTRICAL PANEL SEE "E" DWG's
		MC	RADIANT HEAT PANEL SEE "M" DWG's

GENERAL NOTES

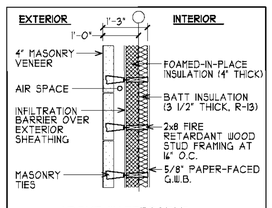
- THESE DRAWINGS ARE FOR THE GENERAL LAYOUT, DIMENSIONS AND MATERIAL DETAILS OF THE PROJECT. THEY ARE NOT TO BE USED WITHOUT THE ACCOMPANYING SPECIFICATIONS. IN THE EVENT OF DISCREPANCIES BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING PRIOR TO PROCEEDING AND SHALL NOT PROCEED WITHOUT DIRECTION FROM THE ARCHITECT.
- ANY/ALL DIMENSIONS SHALL BE FIELD VERIFIED. CONTRACTORS & SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR BRINGING ANY DIMENSIONAL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT IN WRITING. PLAN DIMENSIONS ARE NOMINAL, DETAIL DIMENSIONS ARE ACTUAL UNLESS OTHERWISE NOTED.
- A SET OF PLANS BEARING THE ARCHITECT'S & ENGINEER'S SEALS SHALL BE KEPT AT THE SITE AT ALL TIMES DURING CONSTRUCTION.
- ANY ALTERATION TO DRAWINGS BY ANYONE EXCEPT A LICENSED ARCHITECT OR ENGINEER IS PROHIBITED BY LAW. IF ANY ITEM BEARING THE SEAL OF AN ARCHITECT IS ALTERED, THE ALTERING ARCHITECT/ENGINEER SHALL AFFIX TO HIS/HER ALTERATION HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE, DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
- DIMENSIONS SHALL NOT BE DETERMINED BY SCALING THE DRAWINGS.
- TYPICAL DETAILS ARE TO BE USED UNLESS OTHERWISE NOTED.
- TRUSS MANUFACTURER SHALL PROVIDE SHOP DRAWINGS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER WITHIN THIS JURISDICTION. TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE CURRENT STATE BUILDING CODES. TRUSS DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- SEE 10/A430 FOR TYPICAL INTERIOR WALL CONNECTION DETAILS.
- FLOOR AND WALL PENETRATION CLOSURES SHALL BE HANDLED ACCORDING TO SPECIFICATION SECTION 01100 - SUMMARY OF WORK.
- DEVIATIONS FROM THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT IS FORBIDDEN.
- WHERE ACOUSTICAL BATT INSULATION IS INDICATED IN THE CONTRACT DOCUMENTS, ALL JOINTS IN THE GWB & BETWEEN THE GWB & THE FLOOR & STRUCTURE MUST BE SEALED WITH ACOUSTICAL CAULK. ELECTRICAL OUTLETS ARE NOT TO BE MOUNTED BACK TO BACK IN THE SAME STUD SPACE IN ACOUSTICALLY INSULATED WALLS.
- ANY PRODUCT OR SYSTEM NOTED ON THE PLANS BUT NOT PROVIDED WITH A CORRESPONDING SPECIFICATION SECTION SHALL BE REQUIRED TO FOLLOW THE SUBSTITUTION AND SUBMITTAL PROCEDURES SET FORTH IN SECTION 01300D.

WALL TYPES

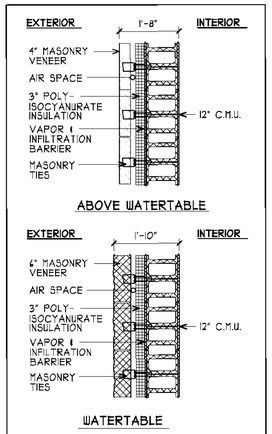
EXTERIOR WALL TYPES



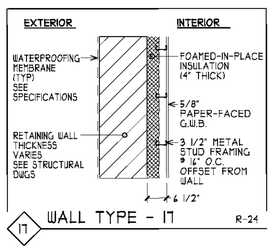
6 WALL TYPE - 6 R-18



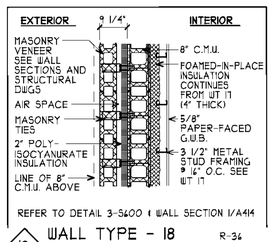
15 WALL TYPE - 15 R-28.8



9 WALL TYPE - 9 R-29.9

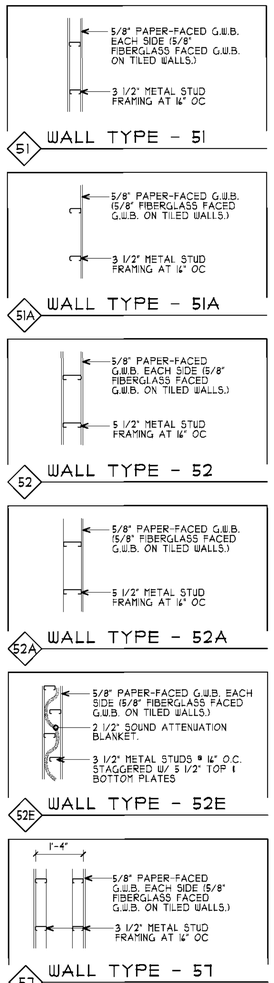


17 WALL TYPE - 17 R-24



18 WALL TYPE - 18 R-36

INTERIOR WALL TYPES



TYPICAL FOR ALL 1/2 HOUR RATED METAL STUD FRAMED WALL TYPES. SUBSTITUTE 5/8" TYPE 'X' G.W.B. FOR PLAIN G.W.B., BOTH SIDES OF PARTITION. RUN TO BOTTOM OF DECK WITH SMOKE TIGHT JOINT

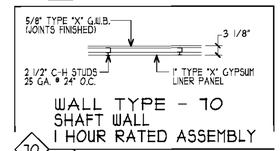
1/2 HR WALL TYPE 1/2 HOUR RATED ASSEMBLY

TYPICAL FOR ALL 1 HOUR RATED METAL STUD FRAMED WALL TYPES. SUBSTITUTE 5/8" TYPE 'X' G.W.B. FOR PLAIN G.W.B., BOTH SIDES OF PARTITION. RUN TO BOTTOM OF DECK W/ SMOKE TIGHT JOINT

1 HR WALL TYPE 1 HOUR RATED ASSEMBLY

TYPICAL FOR ALL 1 HOUR RATED C.M.U. WALL TYPES. 1 HOUR RATED BLOCK. RUN TO BOTTOM OF DECK WITH SMOKE TIGHT JOINT

1 HR WALL TYPE 1 HOUR RATED ASSEMBLY



1 HR WALL TYPE - 70 SHAFT WALL 1 HOUR RATED ASSEMBLY

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4511 FAX: (518) 765 2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225 9460 FAX: (845) 225-9577

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584 9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 294-4212 FAX: (845) 291-1934

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND WALL TYPES

SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A010

PLOT TIME: 10:49 AM

D:\C DRIVE\Putnam Valley\PV_A010

Area Increase for Frontage

$I_f = 100\ [F/P - .25]\ W/30$

W =	30'	W/30 =	1.00
F =	551		
P =	551	yes	⇦ Is the building sprinklered?
NS =	9,900		
I_f =	58%	3	⇦ Number of Stories

I_f = Area increase due to frontage

F = Building perimeter that fronts on a public way or accessible open space having 20' minimum width

P = Perimeter of entire building

W = Minimum width of public way or accessible open space

Total Allowable Area - 1st Floor

$A_a = A_t + (A_i\ 1/100) + (A_s\ 1/100)$

A_i =	28,500	⇦ Allowable area from Table 506.2 Based on MOST restrictive Use A-3
A_a =	35,625 SF	⇦ Total Allowable Area/Floor

A_a = Total Allowable Area

A_t = Area from Table 506.2

Actual 1st Floor Area From Sheet 1: **13,659**

Allowable building area conforms

Total Allowable Area - 2nd Floor

$A_a = A_t + (A_i\ 1/100) + (A_s\ 1/100)$

A_i =	28,500	⇦ Allowable area from Table 506.2 Based on MOST restrictive Use A-3
A_a =	35,625 SF	⇦ Total Allowable Area/Floor

A_a = Total Allowable Area

A_t = Area from Table 506.2

Actual 2nd Floor Area From Sheet 1: **5,044**

Allowable building area conforms

Total Allowable Area - 3rd Floor

$A_a = A_t + (A_i\ 1/100) + (A_s\ 1/100)$

A_i =	28,500	⇦ Allowable area from Table 506.2 Based on MOST restrictive Use A-3
A_a =	35,625 SF	⇦ Total Allowable Area/Floor

A_a = Total Allowable Area

A_t = Area from Table 506.2

Actual 3rd Floor Area From Sheet 1: **11,221**

Allowable building area conforms

W min for frontage is 20', max value for **W**/30 is 1 (no matter what the value of **W** is beyond 30')

Table 506.2: Allowable Building Areas, per floor:

	IIB	
	At	NS
A-2	28,500	9,500
A-3	28,500	9,500
B	69,000	23,000
R-1	48,000	16,000
S-1	52,500	17,500
S-2	78,000	26,000

Section 903.2: Sprinkler system will be required as follows:

A-2 Fire area exceeds 5,000 s.f. OR occupant load 100 or more OR other than level of exit discharge

A-3 Fire area exceeds 12,000 s.f. OR occupant load 300 or more OR other than level of exit discharge

B Not Required

R-1 Required through out entire building

S-1 Fire area exceeds 12,000 s.f. OR area exceeds 5,000 s.f. is used for the storage of commercial motor vehicles

S-2 Not Required

2020 Building Code of New York State
Miscellaneous Code Information

Use Groups (code section 302)	*A-2, A-3, B, R-1, S-1, S-2*
Occupancy Classification (code section 508.3) *Mixed Use Nonseparated*	
Incidental Uses (code section 509)	*None*
Construction Classification (code section 602)	*IIB*

Code Areas / Occupant Loads

2020 Building Code of New York State

Building Areas (per code section 503.1)
Used for Building Size Calculations
* See Allowable Building Area Worksheet

First Floor Net (exclusive of exterior walls)	12,640
Second Floor Net (exclusive of exterior walls)	4,355
Third Floor Net (exclusive of exterior walls)	10,585
Total Building Net Area S.F.	**27,580**

Gross/Net Floor Areas (per code section 1004 & Table 1004.5)
Used for means of egress occupancy calculations

Occupancy	*Area*	*S.F. Per Occupant*	*Occupant Load*
First Floor			
Apparatus Bay	6116 sf @	200 gross	31
Office Spaces	167 sf @	100 gross	2
Bunk Rooms	508 sf @	50 gross	11
Day Room	578 sf @	15 net	39
Storage/ Mechanical	2229 sf @	300 gross	8
Exercise Room	1044 sf @	50 gross	21
Locker Rooms	149 sf @	50 gross	3
Second Floor			
Storage/ Mechanical	1768 sf @	300 gross	6
Mezzanine (adds to bay)	2207 sf @	300 gross	8
Third Floor			
Office Spaces	1450 sf @	1580 gross	1
Storage/ Mechanical	920 sf @	300 gross	4
Members Room	1063 sf @	15 net	71
Meeting/Training	3075 sf @	15 net	205
Kitchen	944 sf @	200 gross	5
Total First Floor Occupants:			**115**
Total Second Floor Occupants:			**14**
Total Third Floor Occupants:			**286**
Total Occupants:			**415**

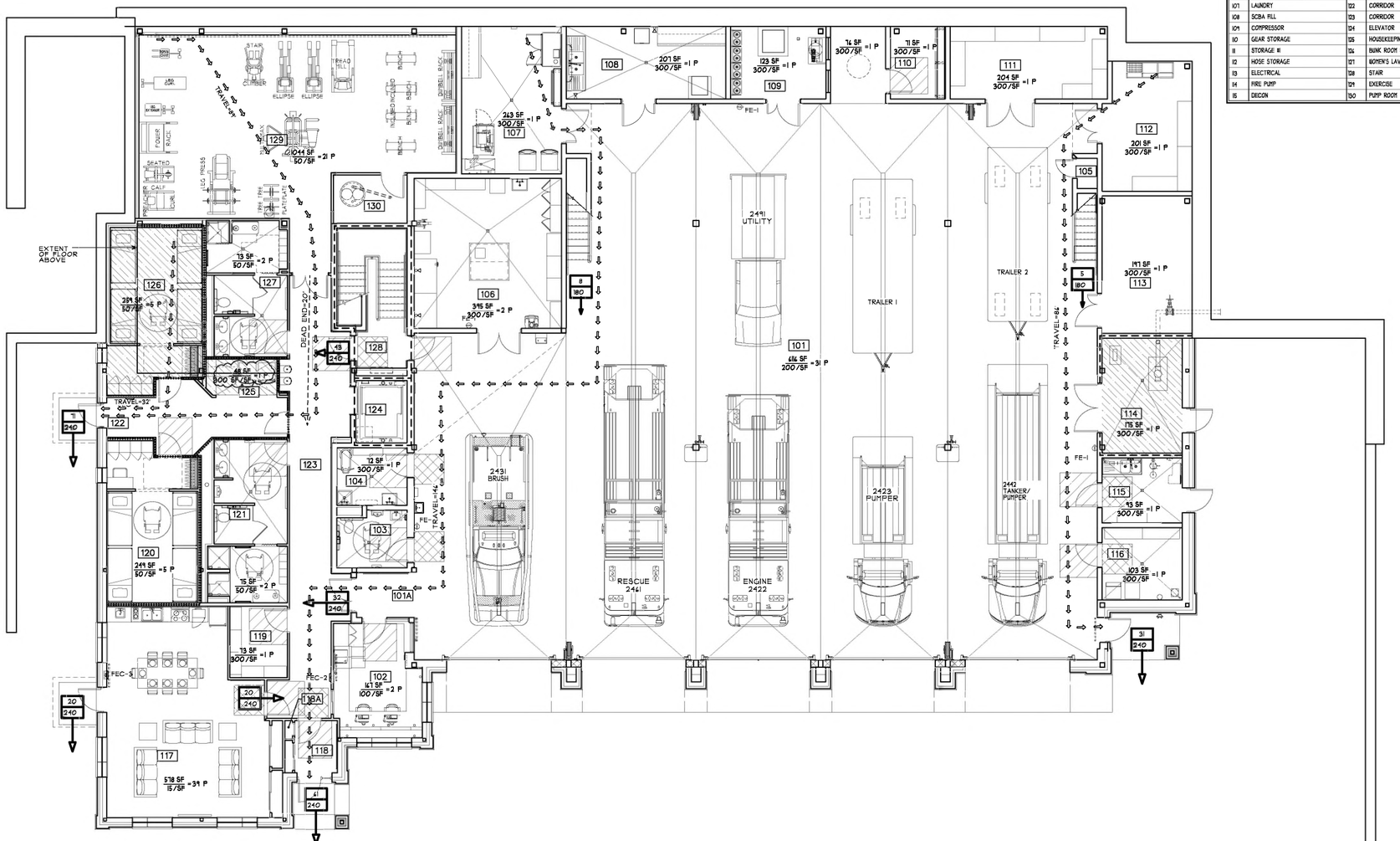
Overall Building Size (inclusive of exterior walls)
Used for zoning footprint and materials estimates

First Floor Gross	13,659
Second Floor Gross	5,044
Third Floor Gross	11,221
Total Overall Gross Building Size S.F.	**29,924**

2020 Building Code of New York State

See Code Table 2902.1	OCCUPANCY USE*	POPULATION	WC'S MEN	WC'S WOMEN	LAVS	DRINKING FOUNTAINS	URINALS (PC Sec. 424)	SERVICE SINK	UNISEX LAV	UNISEX WC	SHOWER MEN	SHOWER WOMEN
1ST FLOOR ROOMS												
Apparatus Bay	S-2	31	0.16	0.16	0.31	0.03	0.08	1.00				
Office Spaces	B	2	0.04	0.04	0.05	0.02	0.02					
Bunk Rooms	R-1	11	0.55	0.55	1.10	0.11	0.28				0.69	0.69
Day Room	A-2	39	0.26	0.26	0.20	0.08	0.17					
Storage/ Mechanical	S-2	8	0.04	0.04	0.08	0.01	0.02					
Exercise Room	B	21	0.42	0.42	0.53	0.21	0.21					
Locker Rooms	B	3	0.06	0.06	0.08	0.03	0.03					
SUBTOTAL 1ST FLOOR		115	1.53	1.53	2.34	0.49	0.81	1.00	0.00	0.00	0.69	0.69
2ND FLOOR ROOMS												
Storage/ Mechanical	S-2	6	0.03	0.03	0.06	0.01	0.02					
Mezzanine (adds to bay)	S-2	8	0.04	0.04	0.08	0.01	0.02					
SUBTOTAL 2ND FLOOR		14.00	0.07	0.07	0.14	0.01	0.04	0.00	0.00	0.00	0.00	0.00
3RD FLOOR ROOMS												
Office Spaces	B	1	0.02	0.02	0.03	0.01	0.01	1.00				
Storage/ Mechanical	S-2	4	0.02	0.02	0.04	0.00	0.01					
Members Room	A-2	71	0.47	0.47	0.36	0.14	0.37					
Meeting/Training	A-3	205	0.82	0.82	1.03	0.41	0.55					
Kitchen	A-2	5	0.03	0.03	0.03	0.01	0.02					
SUBTOTAL 3RD FLOOR		286	1.37	2.12	1.47	0.58	0.91	1.00	0.00	0.00	0.00	0.00
TOTAL OF FIXTURES REQUIRED		415	3	4	4	2	1	2	0	0	1	1
							1. Maximum # of Substitutions for Water Closets					
TOTAL OF FIXTURES PROVIDED			4	4	9	4	3	2	1	1	2	1

* Occupancy, Accessory Use or Use Group (NOTE ALLOWABLE CHOICES **A-2, A-3, B, R-1, S-1, S-2**)



1 / A020 **1st FLOOR CODE PLAN**
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

BUILDING AREA	S.F.
1st FLOOR	13,659
MEZZANINE (Included in 2nd Floor S.F.)	2,207
2nd FLOOR	5,044
3rd FLOOR	11,221
TOTAL	29,924

CODE PLAN LEGEND

EXIT CAPACITY:

00 — ACTUAL NUMBER OF OCCUPANTS USING DOOR OR STAIR
00 — MAXIMUM ALLOWABLE EGRESS CAPACITY OF DOOR OR STAIR

ROOM OCCUPANCY LOAD:

495 — AREA IN SQUARE FEET
= 5 P — ACTUAL OCCUPANT LOAD PER ROOM
100 — OCCUPANT LOAD FACTOR

⇦ ⇨ PATH OF TRAVEL ‹ DISTANCE TO EXIT
DIRECTION OF TRAVEL

SEPARATIONS ARE DESIGNATED AS FOLLOWS:

- - - - 1 HOUR FIRE-RESISTANCE RATED FIRE BARRIER OR FIRE PARTITION
.... 1/2 HOUR FIRE-RESISTANCE RATED FIRE BARRIER OR FIRE PARTITION
1 HOUR FIRE-RESISTANCE RATED FLOOR/CEILING ASSEMBLY ABOVE FIRE RESISTANCE ASSEMBLY AND/S.U. 243 DESIGN No. NO1
DOOR CLEARANCE FLOOR AREAS

NOTE: AT ALL LOCATIONS OF RATED WALLS, PROVIDE SIGNS ABOVE THE CEILING AT 50 FEET ON CENTER STATING "FIRE AND/OR SMOKE BARRIER PROTECT ALL OPENINGS" 1 PROVIDE HOUR RATING REQUIRED

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	114	HYDRATION ROOM
101A	VESTIBULE	111	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOEBR
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DIESEL	130	PUMP ROOM

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9460 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1439

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

1ST FLOOR CODE PLAN

SCALE: 1/8" =1'-0"
DWG. BY: PFS/JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A020

PLOT TIME: 10:52 AM

DWG ID#: S:\N Drive\Putnam Valley\PV_A020

Area Increase for Frontage

$I_f = 100\ [F/P - .25]\ W/30$

W =	30'	W/30 =	1.00
F =	551		
P =	551	yes	⇦ Is the building sprinklered?
NS =	9,900		
I_f =	58%	3	⇦ Number of Stories

I_f = Area increase due to frontage

F = Building perimeter that fronts on a public way or accessible open space having 20' minimum width

P = Perimeter of entire building

W = Minimum width of public way or accessible open space

Total Allowable Area - 1st Floor

$A_a = A_t + (A_i\ I_f/100) + (A_s\ I_f/100)$

A_i =	28,500	⇦ Allowable area from Table 506.2 Based on MOST restrictive Use A-3
A_a =	35,625 SF	⇦ Total Allowable Area/Floor

A_a = Total Allowable Area

A_t = Area from Table 506.2

Actual 1st Floor Area From Sheet 1: **13,659**

Allowable building area conforms

Total Allowable Area - 2nd Floor

$A_a = A_t + (A_i\ I_f/100) + (A_s\ I_f/100)$

A_i =	28,500	⇦ Allowable area from Table 506.2 Based on MOST restrictive Use A-3
A_a =	35,625 SF	⇦ Total Allowable Area/Floor

A_a = Total Allowable Area

A_t = Area from Table 506.2

Actual 2nd Floor Area From Sheet 1: **5,044**

Allowable building area conforms

Total Allowable Area - 3rd Floor

$A_a = A_t + (A_i\ I_f/100) + (A_s\ I_f/100)$

A_i =	28,500	⇦ Allowable area from Table 506.2 Based on MOST restrictive Use A-3
A_a =	35,625 SF	⇦ Total Allowable Area/Floor

A_a = Total Allowable Area

A_t = Area from Table 506.2

Actual 3rd Floor Area From Sheet 1: **11,221**

Allowable building area conforms

W min for frontage is 20', max value for **W**/30 is 1 (no matter what the value of **W** is beyond 30')

Table 506.2: Allowable Building Areas, per floor:

	IIB	
	At	NS
A-2	28,500	9,500
A-3	28,500	9,500
B	69,000	23,000
R-1	48,000	16,000
S-1	52,500	17,500
S-2	78,000	26,000

Section 903.2: Sprinkler system will be required as follows:

A-2 Fire area exceeds 5,000 s.f. OR occupant load 100 or more OR other than level of exit discharge

A-3 Fire area exceeds 12,000 s.f. OR occupant load 300 or more OR other than level of exit discharge

B Not Required

R-1 Required through out entire building

S-1 Fire area exceeds 12,000 s.f. OR area exceeds 5,000 s.f. is used for the storage of commercial motor vehicles

S-2 Not Required

2020 Building Code of New York State
Miscellaneous Code Information

Use Groups (code section 302)	*A-2, A-3, B, R-1, S-1, S-2*
Occupancy Classification (code section 508.3) *Mixed Use Nonseparated*	
Incidental Uses (code section 509)	*None*
Construction Classification (code section 602)	*IIB*

Code Areas / Occupant Loads

2020 Building Code of New York State

Building Areas (per code section 503.1)
Used for Building Size Calculations
* See Allowable Building Area Worksheet

First Floor Net (exclusive of exterior walls)	12,640
Second Floor Net (exclusive of exterior walls)	4,355
Third Floor Net (exclusive of exterior walls)	10,585
Total Building Net Area S.F.	**27,580**

Gross/Net Floor Areas (per code section 1004 & Table 1004.5)
Used for means of egress occupancy calculations

Occupancy	*Area*	*S.F. Per Occupant*	*Occupant Load*
First Floor			
Apparatus Bay	6116 sf @	200 gross	31
Office Spaces	167 sf @	100 gross	2
Bunk Rooms	508 sf @	50 gross	11
Day Room	578 sf @	15 net	39
Storage/ Mechanical	2229 sf @	300 gross	8
Exercise Room	1044 sf @	50 gross	21
Locker Rooms	149 sf @	50 gross	3
Second Floor			
Storage/ Mechanical	1768 sf @	300 gross	6
Mezzanine (adds to bay)	2207 sf @	300 gross	8
Third Floor			
Office Spaces	1450 sf @	1500 gross	1
Storage/ Mechanical	920 sf @	300 gross	4
Members Room	1063 sf @	15 net	71
Meeting/Training	3075 sf @	15 net	205
Kitchen	944 sf @	200 gross	5
Total First Floor Occupants			**115**
Total Second Floor Occupants			**14**
Total Third Floor Occupants			**286**
Total Occupants			**415**

Overall Building Size (inclusive of exterior walls)
Used for zoning footprint and materials estimates

First Floor Gross	13,659
Second Floor Gross	5,044
Third Floor Gross	11,221
Total Overall Gross Building Size S.F.	**29,924**

2020 Building Code of New York State

See Code Table 2902.1	OCCUPANCY USE*	POPULATION	WC'S MEN	WC'S WOMEN	LAVS	DRINKING FOUNTAINS	URINALS (PC Sec. 424)	SERVICE SINK	UNISEX LAV	UNISEX WC	SHOWER MEN	SHOWER WOMEN
1ST FLOOR ROOMS												
Apparatus Bay	S-2	31	0.16	0.16	0.31	0.03	0.03	1.00				
Office Spaces	B	2	0.04	0.04	0.05	0.02	0.02					
Bunk Rooms	R-1	11	0.55	0.55	1.10	0.11	0.28				0.69	0.69
Day Room	A-2	39	0.26	0.26	0.20	0.08	0.17					
Storage/ Mechanical	S-2	8	0.04	0.04	0.08	0.01	0.02					
Exercise Room	B	21	0.42	0.42	0.53	0.21	0.21					
Locker Rooms	B	3	0.06	0.06	0.08	0.03	0.03					
SUBTOTAL 1ST FLOOR		115	1.53	1.53	2.34	0.49	0.81	1.00	0.00	0.00	0.69	0.69
2ND FLOOR ROOMS												
Storage/ Mechanical	S-2	6	0.03	0.03	0.06	0.01	0.02					
Mezzanine (adds to bay)	S-2	8	0.04	0.04	0.08	0.01	0.02					
SUBTOTAL 2ND FLOOR		14.00	0.07	0.07	0.14	0.01	0.04	0.00	0.00	0.00	0.00	0.00
3RD FLOOR ROOMS												
Office Spaces	B	1	0.02	0.02	0.03	0.01	0.01	1.00				
Storage/ Mechanical	S-2	4	0.02	0.02	0.04	0.00	0.01					
Members Room	A-2	71	0.47	0.47	0.36	0.14	0.37					
Meeting/Training	A-3	205	0.82	1.58	1.03	0.41	0.55					
Kitchen	A-2	5	0.03	0.03	0.03	0.01	0.02					
SUBTOTAL 3RD FLOOR		286	1.37	2.12	1.47	0.58	0.91	1.00	0.00	0.00	0.00	0.00
TOTAL OF FIXTURES REQUIRED		415	3	4	4	2	1	2	0	0	1	1
							1. Maximum # of Substitutions for Water Closets					
TOTAL OF FIXTURES PROVIDED			4	4	9	4	3	2	1	1	2	1

* Occupancy, Accessory Use or Use Group (NOTE ALLOWABLE CHOICES **A-2, A-3, B, R-1, S-1, S-2**)

CODE PLAN LEGEND

EXIT CAPACITY:

00 — ACTUAL NUMBER OF OCCUPANTS USING DOOR OR STAIR
00 — MAXIMUM ALLOWABLE EGRESS CAPACITY OF DOOR OR STAIR

ROOM OCCUPANCY LOAD:

495 — AREA IN SQUARE FEET
= 5 P — ACTUAL OCCUPANT LOAD PER ROOM
100 — OCCUPANT LOAD FACTOR

⇦ ⇦ PATH OF TRAVEL ¢ DISTANCE TO EXIT
DIRECTION OF TRAVEL

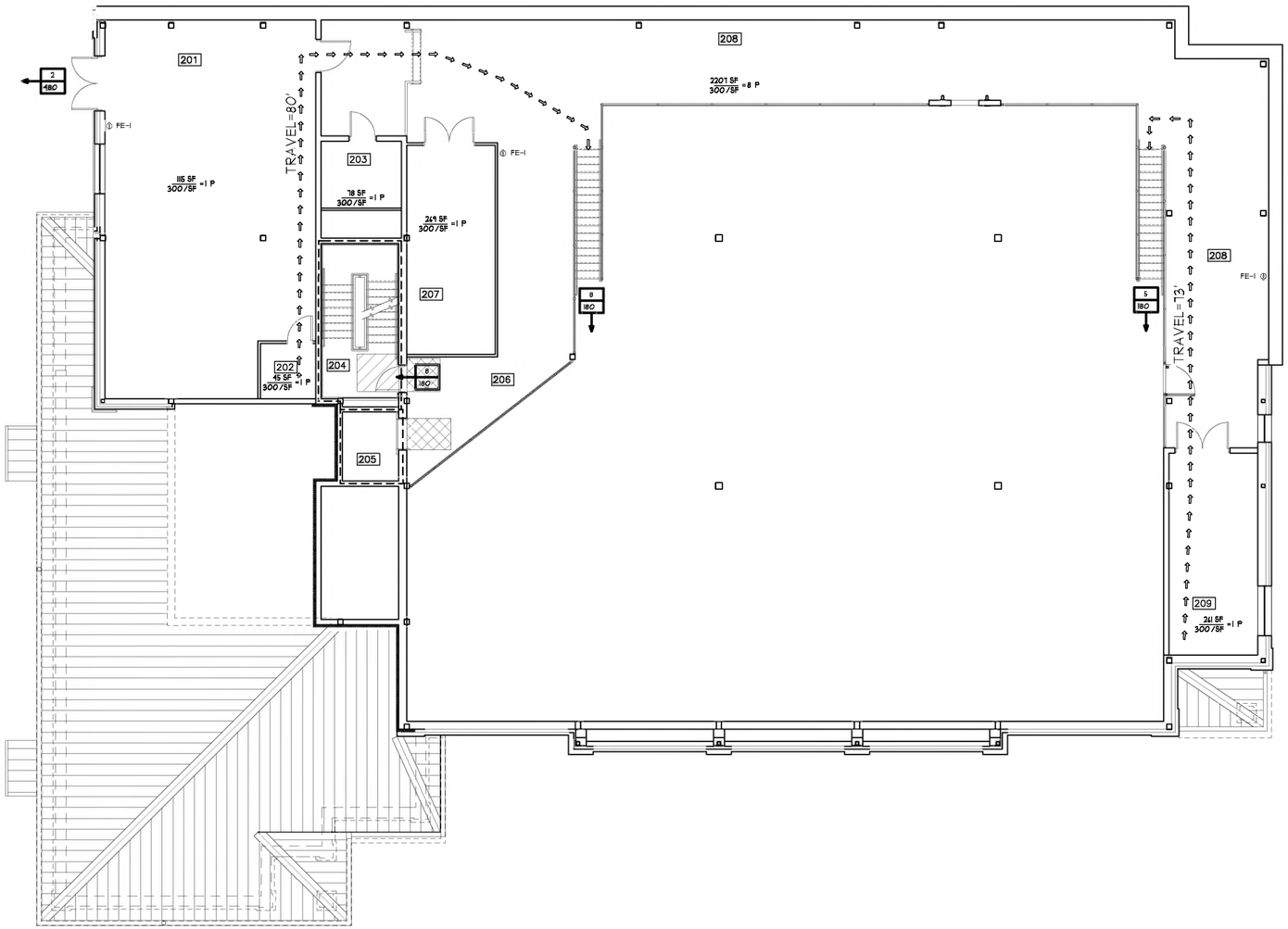
SEPARATIONS ARE DESIGNATED AS FOLLOWS:

1 HOUR FIRE-RESISTANCE RATED FIRE BARRIER OR FIRE PARTITION
1/2 HOUR FIRE-RESISTANCE RATED FIRE BARRIER OR FIRE PARTITION
1 HOUR FIRE-RESISTANCE RATED FLOOR/CEILING ASSEMBLY ABOVE FIRE RESISTANCE ASSEMBLY ANSI/UL 263 DESIGN No. N601
DOOR CLEARANCE FLOOR AREAS

NOTE: AT ALL LOCATIONS OF RATED WALLS, PROVIDE SIGNS ABOVE THE CEILING AT 50 FEET ON CENTER STATING "FIRE AND/OR SMOKE BARRIER PROTECT ALL OPENINGS" ¢ PROVIDE HOUR RATING REQUIRED

2nd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	204	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MECHANICAL 2
205	ELEVATOR		



1 / A021 **2nd FLOOR CODE PLAN**
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

BUILDING AREA	S.F.
1st FLOOR	13,659
MEZZANINE (Included in 2nd Floor S.F.)	2,207
2nd FLOOR	5,044
3rd FLOOR	11,221
TOTAL	29,924

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1439

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

2ND FLOOR CODE PLAN

SCALE: 1/8" =1'-0"
DWG. BY: PFS/JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A021

PLOT TIME: 10:55 AM

DWG ID#: S:\J Drive\Putnam Valley\PV_A020

Area Increase for Frontage

$I_f = 100\ [F/P - .25]\ W/30$

W =	30	W/30 =	1.00
F =	551		
P =	551	yes	⇦ Is the building sprinklered?
NS =	9,900		
I_f =	758%	3	⇦ Number of Stories

I_f = Area increase due to frontage

F = Building perimeter that fronts on a public way or accessible open space having 20' minimum width

P = Perimeter of entire building

W = Minimum width of public way or accessible open space

Total Allowable Area - 1st Floor

$A_t = A_t + (A_t\ I_f/100) + (A_t\ I_f/100)$

A_1 =	28,500	SF	⇦ Allowable area from Table 506.2 Based on MOST restrictive Use A-3
A_a =	35,625	SF	⇦ Total Allowable Area/Floor

A_a = Total Allowable Area

A_t = Area from Table 506.2

Actual 1st Floor Area From Sheet 1: **13,659**

Allowable building area conforms

Total Allowable Area - 2nd Floor

$A_a = A_t + (A_t\ I_f/100) + (A_t\ I_f/100)$

A_1 =	28,500	SF	⇦ Allowable area from Table 506.2 Based on MOST restrictive Use A-3
A_a =	35,625	SF	⇦ Total Allowable Area/Floor

A_a = Total Allowable Area

A_t = Area from Table 506.2

Actual 2nd Floor Area From Sheet 1: **5,044**

Allowable building area conforms

Total Allowable Area - 3rd Floor

$A_a = A_t + (A_t\ I_f/100) + (A_t\ I_f/100)$

A_1 =	28,500	SF	⇦ Allowable area from Table 506.2 Based on MOST restrictive Use A-3
A_a =	35,625	SF	⇦ Total Allowable Area/Floor

A_a = Total Allowable Area

A_t = Area from Table 506.2

Actual 3rd Floor Area From Sheet 1: **11,221**

Allowable building area conforms

W min for frontage is 20', max value for W/30 is 1 (no matter what the value of W is beyond 30')

Table 506.2: Allowable Building Areas, per floor:

	IIB	
	At	NS
A-2	28,500	9,500
A-3	28,500	9,500
B	69,000	23,000
R-1	48,000	16,000
S-1	52,500	17,500
S-2	78,000	26,000

Section 903.2: Sprinkler system will be required as follows:

A-2 Fire area exceeds 5,000 s.f. OR occupant load 100 or more OR other than level of exit discharge

A-3 Fire area exceeds 12,000 s.f. OR occupant load 300 or more OR other than level of exit discharge

B Not Required

R-1 Required through out entire building

S-1 Fire area exceeds 12,000 s.f. OR area exceeds 5,000 s.f. is used for the storage of commercial motor vehicles

S-2 Not Required

2020 Building Code of New York State
Miscellaneous Code Information

Use Groups (code section 302)	*A-2, A-3, B, R-1, S-1, S-2*
Occupancy Classification (code section 508.3) *Mixed Use Nonsepurated*	
Incidental Uses (code section 509)	*None*
Construction Classification (code section 602)	*IIB*

Code Areas / Occupant Loads
2020 Building Code of New York State

Building Areas (per code section 503.1)
Used for Building Size Calculations
* See Allowable Building Area Worksheet

First Floor Net (exclusive of exterior walls)	12,640
Second Floor Net (exclusive of exterior walls)	4,355
Third Floor Net (exclusive of exterior walls)	10,585
Total Building Net Area S.F.	**27,580**

Gross/Net Floor Areas (per code section 1004 & Table 1004.5)
Used for means of egress occupancy calculations

Occupancy	*Area*	*S.F. Per Occupant*	*Occupant Load*
First Floor			
Apparatus Bay	6116 sf @	200 gross	31
Office Spaces	167 sf @	100 gross	2
Bunk Rooms	508 sf @	50 gross	11
Day Room	578 sf @	15 net	39
Storage/ Mechanical	2229 sf @	300 gross	8
Exercise Room	1044 sf @	50 gross	21
Locker Rooms	149 sf @	50 gross	3
Second Floor			
Storage/ Mechanical	1768 sf @	300 gross	6
Mezzanine (adds to bay)	2207 sf @	300 gross	8
Third Floor			
Office Spaces	1450 sf @	1580 gross	1
Storage/ Mechanical	920 sf @	300 gross	4
Members Room	1063 sf @	15 net	71
Meeting/Training	3075 sf @	15 net	205
Kitchen	944 sf @	200 gross	5
Total First Floor Occupants			**115**
Total Second Floor Occupants			**14**
Total Third Floor Occupants			**286**
Total Occupants			**415**

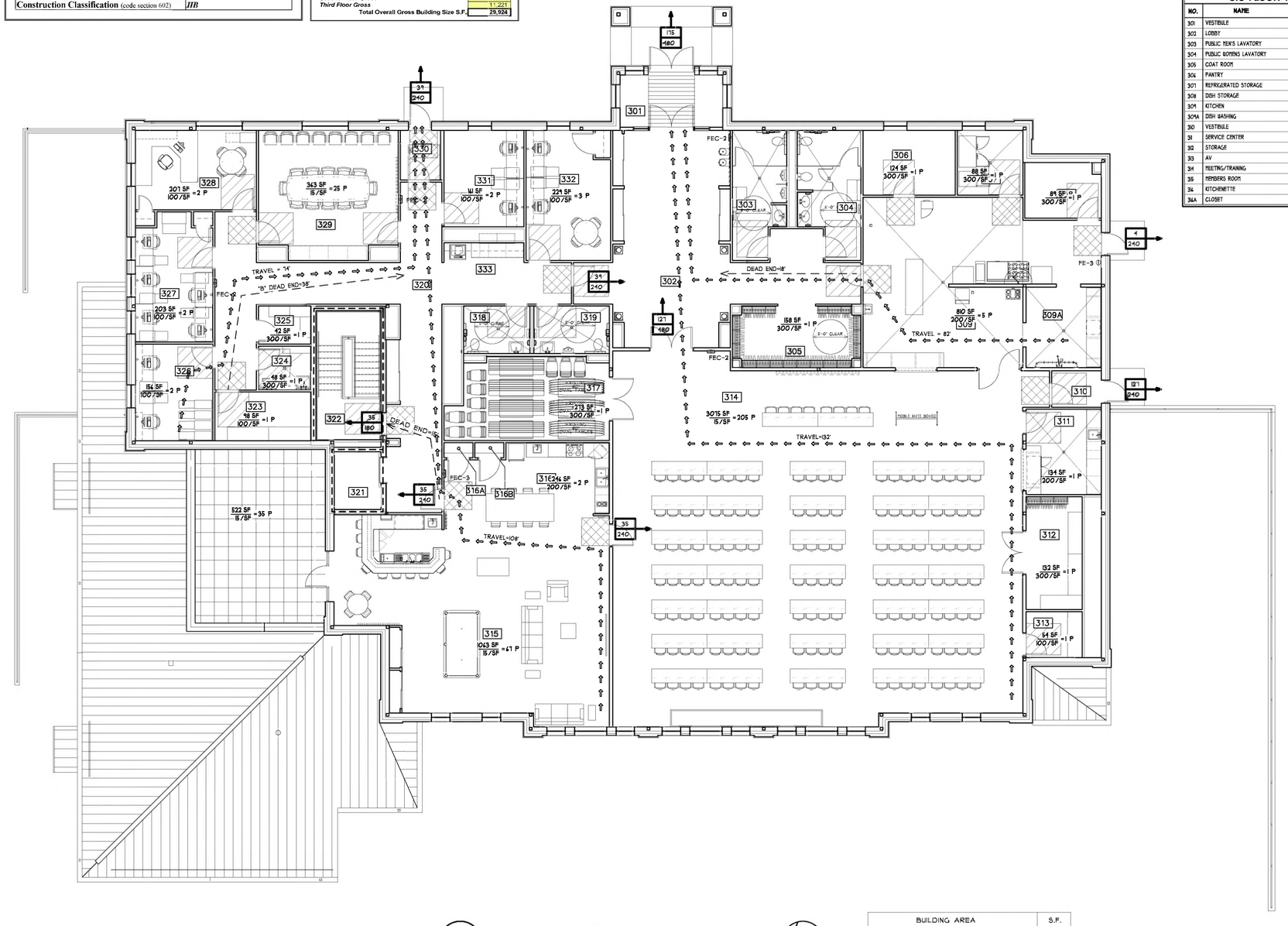
Overall Building Size (inclusive of exterior walls)
Used for zoning footprint and materials estimates

First Floor Gross	13,659
Second Floor Gross	5,044
Third Floor Gross	11,221
Total Overall Gross Building Size S.F.	**29,924**

2020 Building Code of New York State

See Code Table 2902.1	OCCUPANCY USE*	POPULATION	WC'S MEN	WC'S WOMEN	LAVS	DRINKING FOUNTAINS	URINALS (PC Sec. 424)	SERVICE SINK	UNISEX LAV	UNISEX WC	SHOWER MEN	SHOWER WOMEN
1ST FLOOR ROOMS												
Apparatus Bay	S-2	31	0.16	0.16	0.31	0.03	0.03	1.00				
Office Spaces	B	2	0.04	0.04	0.05	0.02	0.02					
Bunk Rooms	R-1	11	0.55	0.55	1.10	0.11	0.28				0.69	0.69
Day Room	A-2	39	0.26	0.26	0.20	0.08	0.17					
Storage/ Mechanical	S-2	8	0.04	0.04	0.08	0.01	0.02					
Exercise Room	B	21	0.42	0.42	0.53	0.21	0.21					
Locker Rooms	B	3	0.06	0.06	0.08	0.03	0.03					
SUBTOTAL 1ST FLOOR		115	1.53	1.53	2.34	0.49	0.81	1.00	0.00	0.00	0.69	0.69
2ND FLOOR ROOMS												
Storage/ Mechanical	S-2	6	0.03	0.03	0.06	0.01	0.02					
Mezzanine (adds to bay)	S-2	8	0.04	0.04	0.08	0.01	0.02					
SUBTOTAL 2ND FLOOR		14.00	0.07	0.07	0.14	0.01	0.04	0.00	0.00	0.00	0.00	0.00
3RD FLOOR ROOMS												
Office Spaces	B	1	0.02	0.02	0.03	0.01	0.01	1.00				
Storage/ Mechanical	S-2	4	0.02	0.02	0.04	0.00	0.01					
Members Room	A-2	71	0.47	0.47	0.36	0.14	0.37					
Meeting/Training	A-3	205	0.82	1.58	1.03	0.41	0.55					
Kitchen	A-2	5	0.03	0.03	0.03	0.01	0.02					
SUBTOTAL 3RD FLOOR		286	1.37	2.12	1.47	0.58	0.91	1.00	0.00	0.00	0.00	0.00
TOTAL OF FIXTURES REQUIRED		415	3	4	4	2	1	2	0	0	1	1
							1. Maximum # of Substitutions for Water Closets					
TOTAL OF FIXTURES PROVIDED			4	4	9	4	3	2	1	1	2	1

* Occupancy, Accessory Use or Use Group (NOTE ALLOWABLE CHOICES **A-2, A-3, B, R-1, S-1, S-2**)



1 / A022 **3rd FLOOR CODE PLAN**
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

BUILDING AREA	S.F.
1st FLOOR	13,659
MEZZANINE (Included in 2nd Floor S.F.)	2,207
2nd FLOOR	5,044
3rd FLOOR	11,221
TOTAL	29,924

CODE PLAN LEGEND

EXIT CAPACITY:

00 — ACTUAL NUMBER OF OCCUPANTS USING DOOR OR STAIR
00 — MAXIMUM ALLOWABLE EGRESS CAPACITY OF DOOR OR STAIR

ROOM OCCUPANCY LOAD:

495 — AREA IN SQUARE FEET
= 5 P — ACTUAL OCCUPANT LOAD PER ROOM
100 — OCCUPANT LOAD FACTOR

⇦ ⇦ PATH OF TRAVEL ℄ DISTANCE TO EXIT
DIRECTION OF TRAVEL

SEPARATIONS ARE DESIGNATED AS FOLLOWS:

– – – 1 HOUR FIRE-RESISTANCE RATED FIRE BARRIER OR FIRE PARTITION
1/2 HOUR FIRE-RESISTANCE RATED FIRE BARRIER OR FIRE PARTITION
1 HOUR FIRE-RESISTANCE RATED FLOOR/CEILING ASSEMBLY ABOVE FIRE RESISTANCE ASSEMBLY ANSI/UL 263 DESIGN No. N601
DOOR CLEARANCE FLOOR AREAS

NOTE: AT ALL LOCATIONS OF RATED WALLS, PROVIDE SIGNS ABOVE THE CEILING AT 50 FEET ON CENTER STATING "FIRE AND/OR SMOKE BARRIER PROTECT ALL OPENINGS" ℄ PROVIDE HOUR RATING REQUIRED

3rd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
301	VESTIBULE	3MB	CLOSET
302	LOBBY	317	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	318	WOMEN'S LAVATORY
304	PUBLIC WOMENS LAVATORY	319	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STORAGE
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSEKEEPING
310	VESTIBULE	326	ASSISTANT CHIEF'S
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEF'S OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
YOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9460 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1439

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

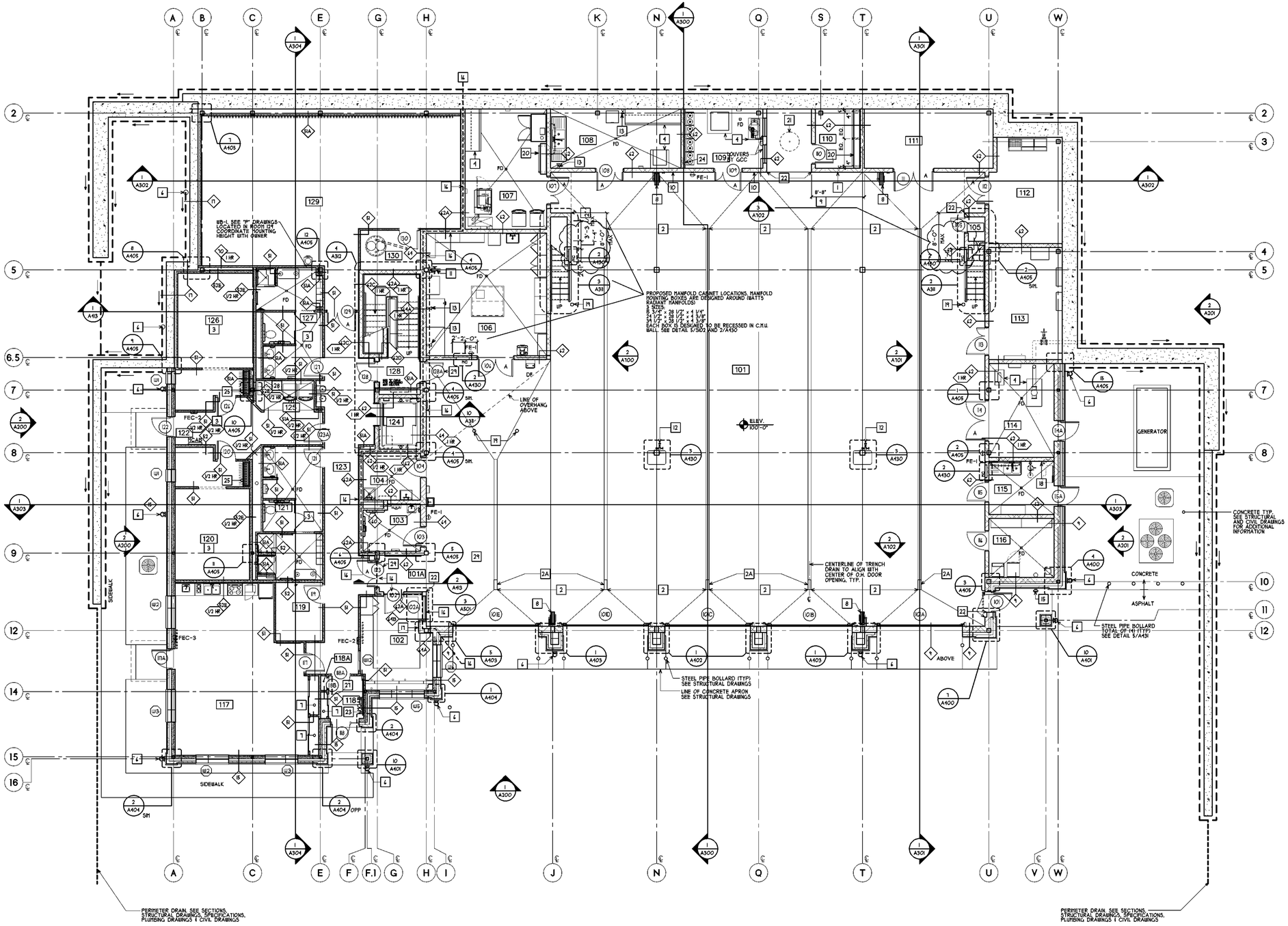
3RD FLOOR CODE PLAN

SCALE: 1/8" =1'-0"
DWG. BY: PFS/JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A022

PLOT TIME: 10:51 AM

DWG ID#: S:\J Drive\Putnam Valley\PV_A020



1 / A100 — 1st FLOOR PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH
NORTH

DWG ID#: S:\J Drive\Putnam Valley\PV_A100

GENERAL NOTES

1. ALL PLAN DIMENSIONS ARE NOMINAL U.O.N.
2. DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF FRAMING, NOT TO FACE OF FURRING.
3. FIRST FLOOR REFERENCE ELEVATION 499.0' = 100'-0".
   2ND/MEZZANINE FLOOR REFERENCE ELEVATION 489.0' = 110'-0"
   MECH./ELEC. FLOOR REFERENCE ELEVATION 489.66' = 110'-8"
   THIRD FLOOR REFERENCE ELEVATION 499.0' = 120'-0"
4. TYPICAL DIMENSION AT HINGE SIDE OF INTERIOR DOOR UNLESS OTHERWISE NOTED — 3" TYP.
5. ALL PENETRATIONS THROUGH A RATED ASSEMBLY ARE TO BE PROPERLY FIRE STOPPED. SEE FIRE STOPPING SPECIFICATION.
6. A = ACTIVE DOOR LEAF
7. IN ALL LAVATORIES, ROOMS WITHOUT DROP CEILINGS AND IN ALL ROOMS OR PARTITIONS WITH ACOUSTICAL INSULATION, WALLS ARE TO EXTEND TO UNDERSIDE OF STRUCTURE.
8. SEE ALSO 1/4" SCALE PLANS FOR ADDITIONAL WALL TYPE AND DIMENSION INFORMATION.
9. SEE ALSO ELEVATIONS FOR CONTROL JOINTS (C.J.'s) IN C.M.U.
10. ALL SHOWER STALLS TO HAVE 5/8" FIBERGLASS FACED G.W.B. AT TILED WALLS.
11. PROVIDE METAL STUD BLOCKING BETWEEN METAL STUD FRAMING FOR WALL MOUNTED OVERHEAD CABINETS AND SHELVING. COORDINATE WITH INSTALLER. SEE A700'S.
12. SEE A100 FOR FFIE DESIGNATIONS, EQUIPMENT PLACEMENT, DIMENSIONS AND NOTES.
13. SEE 100.1, 101.1 & 102.1 FOR DIMENSION PLANS
14. SEE 10/A430 FOR TYPICAL INTERIOR WALL CONNECTION DETAILS
15. SEE 4 & 5/A430 FOR TYPICAL FLOOR AND WALL PENETRATION CLOSURES

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

KEYNOTE LEGEND

1. GUARDIAN FALL PROTECTION (CONCRETE SWIVEL ANCHOR #00242, GALVANIZED S.S.) LADDER TIE OFF, 12" ABOVE FINISH SLAB. FILL SOLID W/ 3000 P.S.I CONCRETE FIRST TWO BLOCKS. ALIGN W/ TRAINING WINDOW CENTER LINE. SEE 3/A102
2. ALIGN ENDS OF TRENCH DRAINS/CATCH BASINS
2A. IN LINE CATCH BASIN
3. SOUND ATTENUATION BLANKETS IN WALL FRAMING FROM FLOOR TO UNDERSIDE OF STRUCTURE, G.W.B. TO EXTEND TO UNDERSIDE OF STRUCTURE. FILL VOIDS AT UNDERSIDE OF STRUCTURE PER DETAILS.
4. 4" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE SIZE OF PAD WITH EQUIPMENT TO BE PLACED ATOP PAD WITH MANUFACTURERS REQUIREMENTS. COORDINATE LOCATION WITH ALL TRADES. SEE DIMENSION PLANS.
5. EXTRACTOR SLAB. COORDINATE SIZE OF PAD WITH EQUIPMENT TO BE PLACED ATOP PAD WITH MANUFACTURERS REQUIREMENTS. COORDINATE LOCATION WITH ALL TRADES. SEE STRUCTURAL DRAWINGS FOR EXTRACTOR SLAB DETAILS.
6. DOWNSPOUT TO STORM. SEE ROOF PLAN, ELEVATIONS & CIVIL DRAWINGS.
7. DISPLAY CASE - SEE DETAIL 9/A730
8. WATER HOSE REEL HIGH INSTALLATION SEE 11/2/A431
9. KEEP THIS WALL AREA CLEAR FROM FIXED OBJECTS THAT COULD INTERFERE WITH THE LADDER EVOLUTION TRAINING WINDOW. (SUCH AS SWITCHES,THERMOSTATS, LIGHT FIXTURES, ETC. COORDINATE WITH ALL TRADES.
10. LOUVER, SEE 1/A302 AND MECHANICAL DRAWINGS
11. AIR HOSE REEL SEE A700's, 3/A431 & PLUMBING DRAWINGS.
12. TRUCK FILL - SEE PLUMBING DWGS & 3/A430
13. COMPRESSED AIR TAP, WALL MOUNTED SEE PLUMBING DRAWINGS
14. FLOOR PENETRATION FOR DUCTWORK/PIPING ETC. COORDINATE SIZE OF OPENING WITH APPROPRIATE DRAWINGS AND DETAIL 5/A430. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. FIRE DEPARTMENT CONNECTION. SEE DETAIL 10/A304 & FIRE PROTECTION DRAWINGS.
16. THE WALL BETWEEN THE APPARATUS BAY AND THE BALANCE OF THE BUILDING IS TO BE AS AIRTIGHT AS POSSIBLE. ACCORDINGLY, ALL CONTRACTORS ARE TO TAKE ALL OF THEIR PENETRATIONS OF THIS WALL IN ACCORDANCE WITH MAXIMUM OPENING CRITERIA SET FORTH IN 09100 AND SEAL AS REQUIRED
17. O.H. DOOR SWITCH PANEL. SEE SHEET A432 CENTER IN WALL. TOP OF PANEL AT 40" A.F.F.
18. WALL MOUNTED SHOWER SYSTEM. SEE 11A/A711 AND PLUMBING DRAWINGS.
19. STEEL BOLLARD, SEE STRUCTURAL DWGS
20. DRYING RACK. SEE DETAIL 6/A430
21. KEEP THIS CEILING AREA CLEAR FROM FIXED OBJECTS THAT COULD INTERFERE WITH THE CONFINED SPACE EXTRACTION TRAINING OPENING. (SUCH AS LIGHT FIXTURES, SPRINKLER LINES, DUCTWORK, ETC.) COORDINATE WITH ALL TRADES.
22. ROUND OFF VERTICAL EDGE OF C.M.U. AT CORNER TO A MINIMUM OF 1/2" RADIUS.
23. FIRE ALARM PANEL. SEE FIRE PROTECTION DRAWINGS
24. 4" DIA. S.S. SLEEVE IN C.M.U. FLUSH WITH EACH FACE OF WALL (SEAL ALL EDGES) FOR HOUSING SCBA COMPRESSOR LINES FROM ROOM 109 TO 101. COORDINATE LOCTION WITH OWNER AND SCBA EQUIPMENT VENDOR RECOMENDATIONS. PROVIDE COMPRESSIBLE FILLER AT INSIDE OF SLEEVE AT EACH END AROUND COMPRESSOR LINE RUNS. ENSURE CLEAN NEAT APPEARANCE AND MUST BE FLUSH WITH FACE OF WALLS. SEE 1/A300
25. COAT RACK AT 48" MAX TO TOP OF SHELF FOR ADA PORTIONS
26. FOAMED IN PLACE INSULATION (TYP). SEE SPECIFICATIONS FOR R-VALUE ALL EXPOSED FOAMED IN PLACE INSULATION ABOVE CEILING, IN TRUSS/ATTIC SPACE Etc., REQUIRES INTUMESCENT COATING. (TYP)
27. ENTRY MAT - SEE SPECIFICATIONS AND DETAIL 8/A430
28. PLASTIC LAMINATE BASE AND WALL CABINETS. SEE DRAWING A700
29. DOOR SIGNAGE. SEE DETAIL 7/A430. SEE SPECIFICATIONS

X-BRACING, SEE STRUCTURAL DRAWINGS
EP — ELECTRICAL PANEL SEE ELECTRICAL DRAWINGS
MANIFOLD CABINET FOR RADIANT PIPES SEE DETAIL 2/A430, MECHANICAL & STRUCTURAL DRAWINGS
CUH — CABINET UNIT HEATER SEE MECHANICAL DRAWINGS

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

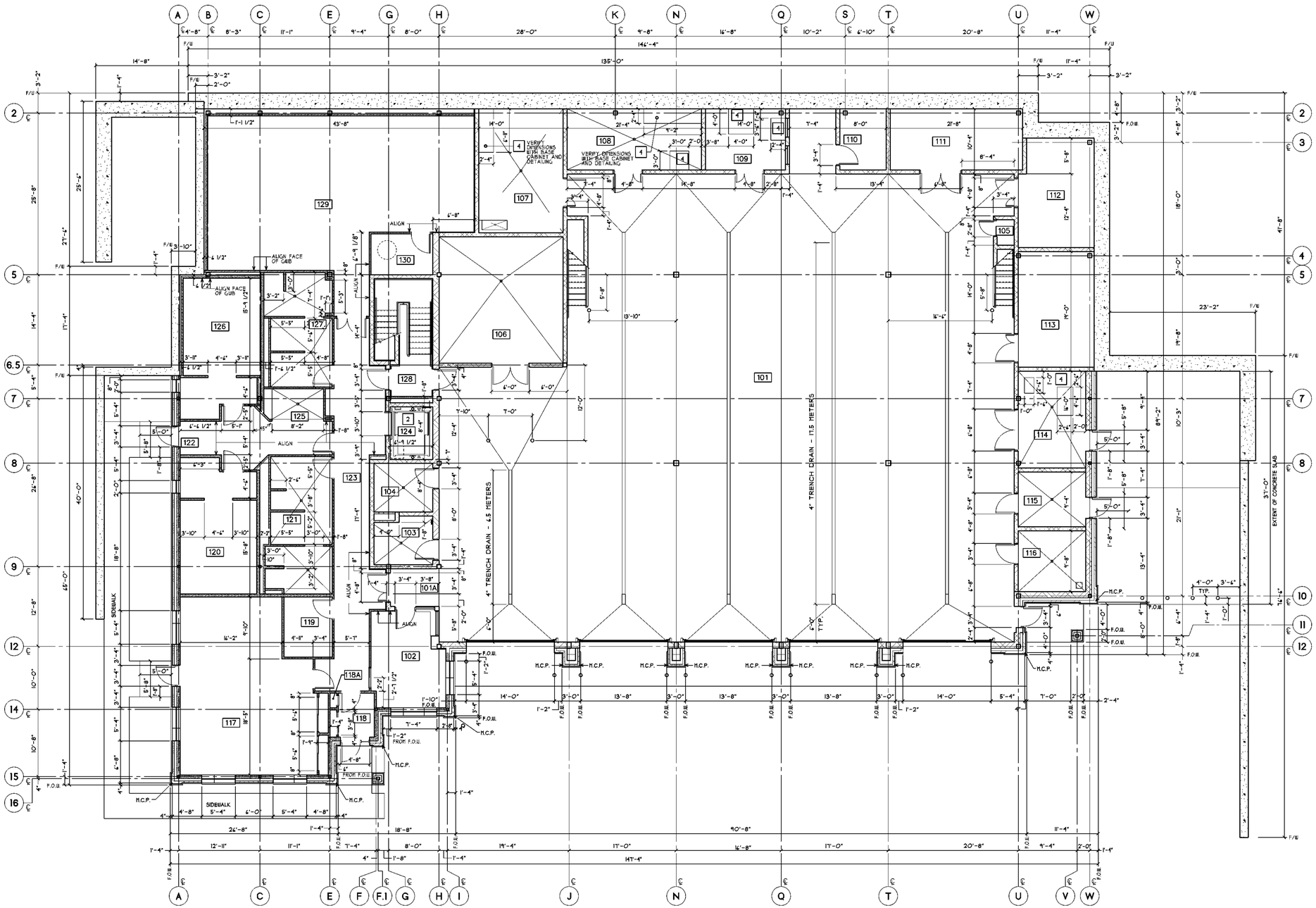
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

1st FLOOR PLAN

SCALE: 1/8" =1'-0"
DWG. BY: RAM/JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A100

PLOT TIME: 4:03 PM



1st FLOOR DIMENSION PLAN
A100.1 SCALE: 1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH
NORTH

DWG ID#: S:\J Drive\Putnam Valley\PV_A100

GENERAL NOTES

1. ALL PLAN DIMENSIONS ARE NOMINAL U.O.N.
2. DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF FRAMING. NOT TO FACE OF FURRING.
3. FIRST FLOOR REFERENCE ELEVATION 479.0' = 100'-0".
   2ND/MEZZANINE FLOOR REFERENCE ELEVATION 489.0' = 110'-0"
   MECH./ELEC. FLOOR REFERENCE ELEVATION 489.667' = 110'-8"
   THIRD FLOOR REFERENCE ELEVATION 499.0' = 120'-0"
4. TYPICAL DIMENSION AT HINGE SIDE OF INTERIOR DOOR UNLESS OTHERWISE NOTED (3" TYP.)
5. ALL PENETRATIONS THROUGH A RATED ASSEMBLY ARE TO BE PROPERLY FIRE STOPPED. SEE FIRE STOPPING SPECIFICATION.
6. A = ACTIVE DOOR LEAF
7. IN ALL LAVATORIES, ROOMS WITHOUT DROP CEILINGS AND IN ALL ROOMS OR PARTITIONS WITH ACOUSTICAL INSULATION, WALLS ARE TO EXTEND TO UNDERSIDE OF STRUCTURE.
8. SEE ALSO 1/4" SCALE PLANS FOR ADDITIONAL WALL TYPE AND DIMENSION INFORMATION.
9. SEE ALSO ELEVATIONS FOR CONTROL JOINTS (C.J.'s) IN C.M.U.
10. ALL SHOWER STALLS TO HAVE 5/8" FIBERGLASS FACED G.W.B. AT TILED WALLS.
11. PROVIDE METAL STUD BLOCKING BETWEEN METAL STUD FRAMING FOR WALL MOUNTED OVERHEAD CABINETS AND SHELVING. COORDINATE WITH INSTALLER. SEE A100'S.
12. SEE A100 FOR FF&E DESIGNATIONS, EQUIPMENT PLACEMENT, DIMENSIONS AND NOTES.
13. SEE 100.1, 101.1 & 102.1 FOR DIMENSION PLANS
14. SEE 10/A430 FOR TYPICAL INTERIOR WALL CONNECTION DETAILS
15. SEE 4 & 5/A430 FOR TYPICAL FLOOR AND WALL PENETRATION CLOSURES

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM III
106	ENGINEER'S WORK ROOM	121	MENS LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE III	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

DIMENSION PLAN KEY NOTES

1. ALIGN FACE OF FURRING WITH FACE OF METAL STUDS. ENSURE ALIGNMENT OF GWB.
2. COORDINATE DIMENSION WITH ELEVATOR MANUFACTURER.
3. CENTER WALL ON COLUMN LINE
4. 4" HIGH CONCRETE HOUSEKEEPING PAD COORDINATE SIZE OF PAD WITH EQUIPMENT TO BE PLACED ATOP PAD WITH MANUFACTURERS REQUIREMENTS. COORDINATE LOCATION WITH ALL TRADES. SEE DIMENSION PLANS.
5. EXTRACTOR SLAB. COORDINATE SIZE OF PAD WITH EQUIPMENT TO BE PLACED ATOP PAD WITH MANUFACTURERS REQUIREMENTS. COORDINATE LOCATION WITH ALL TRADES. SEE STRUCTURAL DRAWINGS FOR EXTRACTOR SLAB DETAILS.

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9240 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

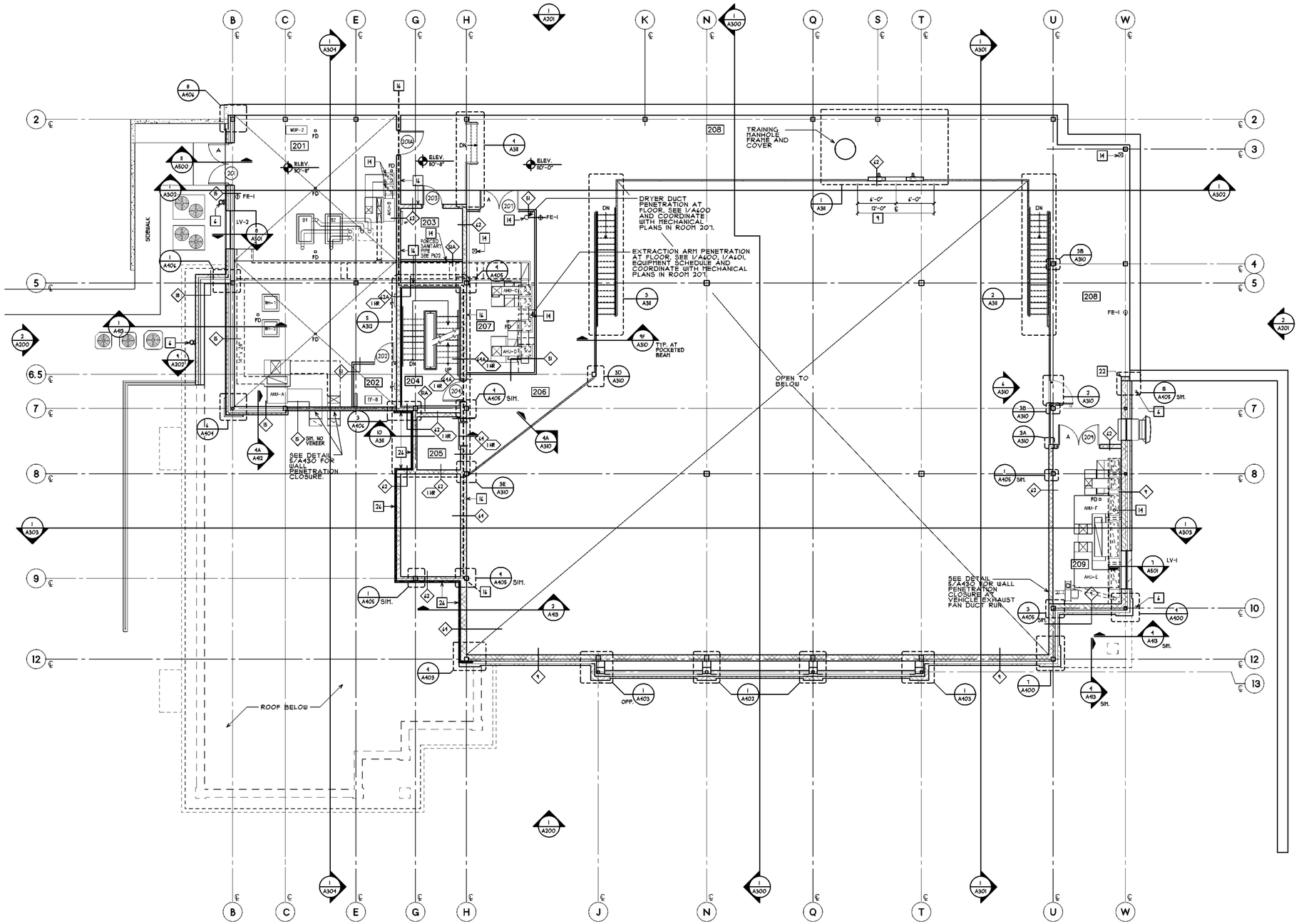
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

1st FLOOR DIMENSION PLAN

SCALE: 1/8" =1'-0"
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A100.1

PLOT TIME: 4:04 PM



2nd FLOOR PLAN

SCALE: 1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH
NORTH

DWG ID#: S:\J Drive\Putnam Valley\PV_A100

GENERAL NOTES

1. ALL PLAN DIMENSIONS ARE NOMINAL U.O.N.
2. DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF FRAMING, NOT TO FACE OF FURRING.
3. FIRST FLOOR REFERENCE ELEVATION 479.0' = 100'-0".
   2ND/MEZZANINE FLOOR REFERENCE ELEVATION 489.0' = 110'-0"
   MECH./ELEC. FLOOR REFERENCE ELEVATION 489.667' = 110'-8"
   THIRD FLOOR REFERENCE ELEVATION 499.0' = 120'-0"
4. TYPICAL DIMENSION AT HINGE SIDE OF INTERIOR DOOR UNLESS OTHERWISE NOTED — 3" TYP.
5. ALL PENETRATIONS THROUGH A RATED ASSEMBLY ARE TO BE PROPERLY FIRE STOPPED. SEE FIRE STOPPING SPECIFICATION.
6. A = ACTIVE DOOR LEAF
7. IN ALL LAVATORIES, ROOMS WITHOUT DROP CEILINGS AND IN ALL ROOMS OR PARTITIONS WITH ACOUSTICAL INSULATION, WALLS ARE TO EXTEND TO UNDERSIDE OF STRUCTURE.
8. SEE ALSO 1/4" SCALE PLANS FOR ADDITIONAL WALL TYPE AND DIMENSION INFORMATION.
9. SEE ALSO ELEVATIONS FOR CONTROL JOINTS (CJ's) IN C.M.U.
10. ALL SHOWER STALLS TO HAVE 5/8" FIBERGLASS FACED G.W.B. AT TILED WALLS.
11. PROVIDE METAL STUD BLOCKING BETWEEN METAL STUD FRAMING FOR WALL MOUNTED OVERHEAD CABINETS AND SHELVING. COORDINATE WITH INSTALLER. SEE A100'S.
12. SEE A100 FOR FF&E DESIGNATIONS, EQUIPMENT PLACEMENT, DIMENSIONS AND NOTES.
13. SEE 100.1, 101 & 102.1 FOR DIMENSION PLANS
14. SEE 10/A430 FOR TYPICAL INTERIOR WALL CONNECTION DETAILS
15. SEE 4 & 5/A430 FOR TYPICAL FLOOR AND WALL PENETRATION CLOSURES

2nd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	204	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MECHANICAL 2
205	ELEVATOR		

KEYNOTE LEGEND

1. GUARDIAN FALL PROTECTION (CONCRETE SWIVEL ANCHOR #00242, GALVANIZED D.S.I. LADDER TIE OFF, 12" ABOVE FINISH SLAB, FILL SOLID W/ 3000 P.S.I CONCRETE FIRST TWO BLOCK, ALIGN W/ TRAINING WINDOW CENTER LINE. SEE 3/A102
2. ALIGN ENDS OF TRENCH DRAINS/CATCH BASINS
2A. IN LINE CATCH BASIN
3. SOUND ATTENUATION BLANKETS IN WALL FRAMING FROM FLOOR TO UNDERSIDE OF STRUCTURE, G.W.B. TO EXTEND TO UNDERSIDE OF STRUCTURE. FILL VOIDS AT UNDERSIDE OF STRUCTURE PER DETAILS.
4. 4" HIGH CONCRETE HOUSEKEEPING PAD COORDINATE SIZE OF PAD WITH EQUIPMENT TO BE PLACED ATOP PAD WITH MANUFACTURERS REQUIREMENTS. COORDINATE LOCATION WITH ALL TRADES. SEE DIMENSION PLANS.
5. EXTRACTOR SLAB. COORDINATE SIZE OF PAD WITH EQUIPMENT TO BE PLACED ATOP PAD WITH MANUFACTURERS REQUIREMENTS. COORDINATE LOCATION WITH ALL TRADES. SEE STRUCTURAL DRAWINGS FOR EXTRACTOR SLAB DETAILS.
6. DOWNSPOUT TO STORM, SEE ROOF PLAN, ELEVATIONS & CIVIL DRAWINGS.
7. DISPLAY CASE - SEE DETAIL 9/A130
8. WATER HOSE REEL HIGH INSTALLATION SEE 11.2/A431
9. KEEP THIS WALL AREA CLEAR FROM FIXED OBJECTS THAT COULD INTERFERE WITH THE LADDER EVOLUTION TRAINING WINDOW, (SUCH AS SWITCHES,THERMOSTATS, LIGHT FIXTURES, ETC. COORDINATE WITH ALL TRADES.
10. LOUVER, SEE 1/A302 AND MECHANICAL DRAWINGS
11. AIR HOSE REEL SEE A100's, 3/A431 & PLUMBING DRAWINGS.
12. TRUCK FILL - SEE PLUMBING DWGS & 3/A430
13. COMPRESSED AIR TAP, WALL MOUNTED SEE PLUMBING DRAWINGS
14. FLOOR PENETRATION FOR DUCTWORK/PIPING ETC. COORDINATE SIZE OF OPENING WITH APPROPRIATE DRAWINGS AND DETAIL 4/A430, SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. FIRE DEPARTMENT CONNECTION. SEE DETAIL 10/A304 & FIRE PROTECTION DRAWINGS.
16. THE WALL BETWEEN THE APPARATUS BAY AND THE BALANCE OF THE BUILDING IS TO BE AS AIRTIGHT AS POSSIBLE. ACCORDINGLY, ALL CONTRACTORS ARE TO MAKE ALL OF THEIR PENETRATIONS OF THIS WALL IN ACCORDANCE WITH MAXIMUM OPENING CRITERIA SET FORTH IN 08100 AND SEAL AS REQUIRED
17. O.M. DOOR SWITCH PANEL, SEE SHEET A432 CENTER IN WALL, TOP OF PANEL AT 40" A.F.F.
18. WALL MOUNTED SHOWER SYSTEM. SEE 8A/A311 AND PLUMBING DRAWINGS.
19. STEEL BOLLARD, SEE STRUCTURAL DWGS
20. DRYING RACK, SEE DETAIL 6/A430
21. KEEP THIS CEILING AREA CLEAR FROM FIXED OBJECTS THAT COULD INTERFERE WITH THE CONFINED SPACE EXTRACTION TRAINING OPENING (SUCH AS LIGHT FIXTURES, SPRINKLER LINES, DUCTWORK, ETC.) COORDINATE WITH ALL TRADES.
22. ROUND OFF VERTICAL EDGE OF C.M.U. AT CORNER TO A MINIMUM OF 1/2" RADIUS.
23. FIRE ALARM PANEL. SEE FIRE PROTECTION DRAWINGS
24. 4" DIA. S.S. SLEEVE IN C.M.U. FLUSH WITH EACH FACE OF WALL. (SEASE ALL EDGES) FOR HOUSING SCBA COMPRESSOR LINES FROM ROOM 108 TO 109, COORDINATE LOCTION WITH OWNER AND SCBA EQUIPMENT VENDOR RECOMENDATIONS. PROVIDE COMPRESSIBLE FILLER AT INSIDE OF SLEEVE AT EACH END AROUND COMPRESSOR LINE RUNS, ENSURE CLEAN NEAT APPEARANCE AND MUST BE FLUSH WITH FACE OF WALLS. SEE 1/A300
25. COAT RACK AT 48" MAX TO TOP OF SHELF FOR ADA PORTIONS
26. FOAMED IN PLACE INSULATION (TYP). SEE SPECIFICATIONS FOR R-VALUE. ALL EXPOSED FOAMED IN PLACE INSULATION ABOVE CEILING IN TRUSS/ATTIC SPACE ETC... REQUIRES INTUMESCENT COATING. (TYP)
27. ENTRY MAT - SEE SPECIFICATIONS AND DETAIL 8/A430
28. PLASTIC LAMINATE BASE AND WALL CABINETS. SEE DRAWING A700

- X-BRACING. SEE STRUCTURAL DRAWINGS
- EP — ELECTRICAL PANEL SEE ELECTRICAL DRAWINGS
- RC — MANIFOLD CABINET FOR RADIANT PIPES SEE DETAIL 2/A430, MECHANICAL & STRUCTURAL DRAWINGS
- CUH — CABINET UNIT HEATER SEE MECHANICAL DRAWINGS

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-7640 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
COHOES, NY 12047
(845) 291-1272 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

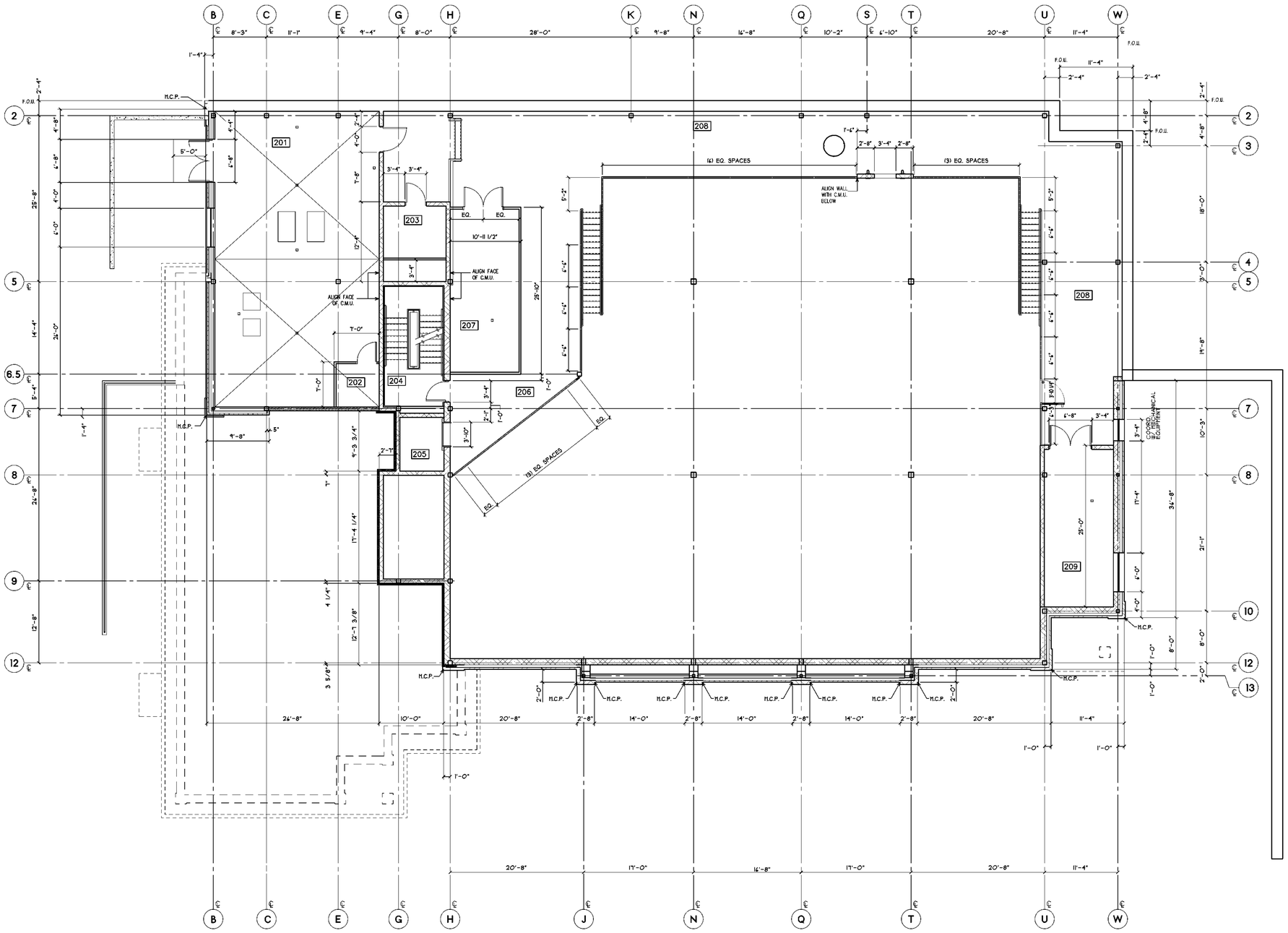
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

2nd FLOOR PLAN

SCALE: 1/8" =1'-0"
DWG. BY: RAM/JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A101

PLOT TIME: 11:03 AM



1 A101.1 **2nd FLOOR DIMENSION PLAN**
SCALE: 1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH
NORTH

GENERAL NOTES

1. ALL PLAN DIMENSIONS ARE NOMINAL U.O.N.
2. DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF FRAMING, NOT TO FACE OF FURRING.
3. FIRST FLOOR REFERENCE ELEVATION 479.0' = 100'-0".
   2ND/MEZZANINE FLOOR REFERENCE ELEVATION 489.0' = 110'-0"
   MECH./ELEC. FLOOR REFERENCE ELEVATION 489.667' = 110'-8"
   THIRD FLOOR REFERENCE ELEVATION 499.0' = 120'-0"
4. TYPICAL DIMENSION AT HINGE SIDE OF INTERIOR DOOR UNLESS OTHERWISE NOTED — 3" TYP.
5. ALL PENETRATIONS THROUGH A RATED ASSEMBLY ARE TO BE PROPERLY FIRE STOPPED. SEE FIRE STOPPING SPECIFICATION.
6. A = ACTIVE DOOR LEAF
7. IN ALL LAVATORIES, ROOMS WITHOUT DROP CEILINGS AND IN ALL ROOMS OR PARTITIONS WITH ACOUSTICAL INSULATION, WALLS ARE TO EXTEND TO UNDERSIDE OF STRUCTURE.
8. SEE ALSO 1/4" SCALE PLANS FOR ADDITIONAL WALL TYPE AND DIMENSION INFORMATION.
9. SEE ALSO ELEVATIONS FOR CONTROL JOINTS (CJ's) IN C.M.U.
10. ALL SHOWER STALLS TO HAVE 5/8" FIBERGLASS FACED G.W.B. AT TILED WALLS.
11. PROVIDE METAL STUD BLOCKING BETWEEN METAL STUD FRAMING FOR WALL MOUNTED OVERHEAD CABINETS AND SHELVING. COORDINATE WITH INSTALLER. SEE A700'S.
12. SEE A700 FOR FF&E DESIGNATIONS, EQUIPMENT PLACEMENT, DIMENSIONS AND NOTES.
13. SEE 100.1, 101.1 & 102.1 FOR DIMENSION PLANS
14. SEE 10/A430 FOR TYPICAL INTERIOR WALL CONNECTION DETAILS
15. SEE 4.1 5/A430 FOR TYPICAL FLOOR AND WALL PENETRATION CLOSURES

2nd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	206	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MECHANICAL 2
205	ELEVATOR		

DIMENSION PLAN KEY NOTES

1. ALIGN FACE OF FURRING WITH FACE OF METAL STUDS. ENSURE ALIGNMENT OF G.W.B.
2. COORDINATE DIMENSION WITH ELEVATOR MANUFACTURER.
3. CENTER WALL ON COLUMN LINE
4. 4" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE SIZE OF PAD WITH EQUIPMENT TO BE PLACED ATOP PAD WITH MANUFACTURER'S REQUIREMENTS. COORDINATE LOCATION WITH ALL TRADES. SEE DIMENSION PLANS.
5. EXTRACTOR SLAB. COORDINATE SIZE OF PAD WITH EQUIPMENT TO BE PLACED ATOP PAD WITH MANUFACTURERS REQUIREMENTS. COORDINATE LOCATION WITH ALL TRADES. SEE STRUCTURAL DRAWINGS FOR EXTRACTOR SLAB DETAILS.

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

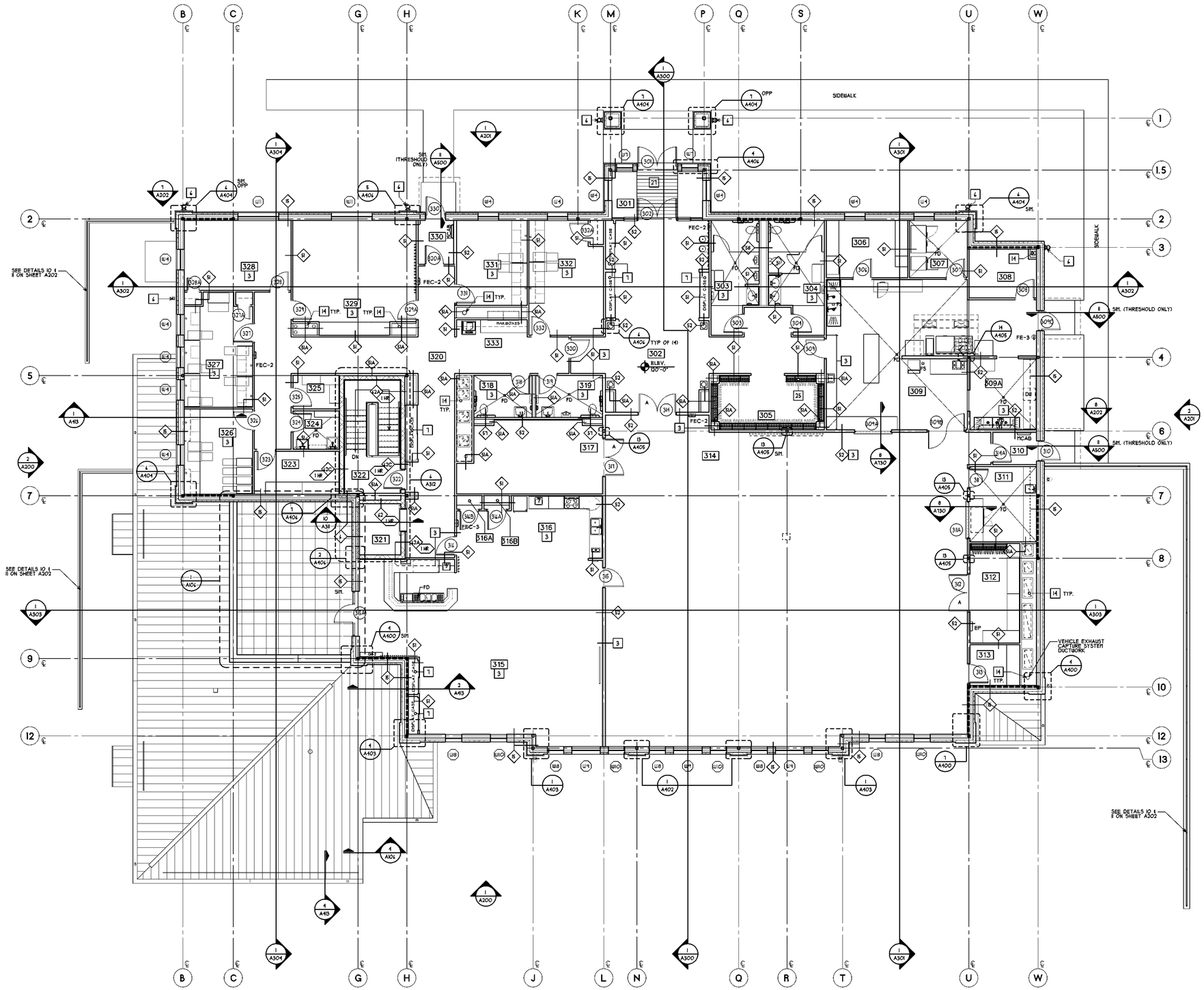
2nd FLOOR DIMENSION PLAN

SCALE: 1/8" =1'-0"
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A101.1

PLOT TIME: 11:04 AM

DWG ID#: S:\J Drive\Putnam Valley\PV_A100



1 / A102 — 3rd FLOOR PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH
NORTH

DWG ID#: S:\V Drive\Putnam Valley\PV_A100

GENERAL NOTES

1. ALL PLAN DIMENSIONS ARE NOMINAL U.O.N.
2. DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF FRAMING, NOT TO FACE OF FURRING.
3. FIRST FLOOR REFERENCE ELEVATION 479.0' = 100'-0".
   2ND/MEZZANINE FLOOR REFERENCE ELEVATION 489.0' = 110'-0"
   MECH/ELEC. FLOOR REFERENCE ELEVATION 489.667' = 110'-8"
   THIRD FLOOR REFERENCE ELEVATION 499.0' = 120'-0"
4. TYPICAL DIMENSION AT HINGE SIDE OF INTERIOR DOOR UNLESS OTHERWISE NOTED — 3" TYP.
5. ALL PENETRATIONS THROUGH A RATED ASSEMBLY ARE TO BE PROPERLY FIRE STOPPED. SEE FIRE STOPPING SPECIFICATION.
6. A = ACTIVE DOOR LEAF
7. IN ALL LAVATORIES, ROOMS WITHOUT DROP CEILINGS AND IN ALL ROOMS OR PARTITIONS WITH ACOUSTICAL INSULATION, WALLS ARE TO EXTEND TO UNDERSIDE OF STRUCTURE.
8. SEE ALSO 1/4" SCALE PLANS FOR ADDITIONAL WALL TYPE AND DIMENSION INFORMATION.
9. SEE ALSO ELEVATIONS FOR CONTROL JOINTS (CJ's) IN C.M.U.
10. ALL SHOWER STALLS TO HAVE 5/8" FIBERGLASS FACED G.W.B. AT TILED WALLS.
11. PROVIDE METAL STUD BLOCKING BETWEEN METAL STUD FRAMING FOR WALL MOUNTED OVERHEAD CABINETS AND SHELVING. COORDINATE WITH INSTALLER. SEE A700'S.
12. SEE A700 FOR FF&E DESIGNATIONS, EQUIPMENT PLACEMENT, DIMENSIONS AND NOTES.
13. SEE 100, 1011 & 1021 FOR DIMENSION PLANS
14. SEE 10/A430 FOR TYPICAL INTERIOR WALL CONNECTION DETAILS
15. SEE 4 & 5/A430 FOR TYPICAL FLOOR AND WALL PENETRATION CLOSURES

3rd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
301	VESTIBULE	36B	CLOSET
302	LOBBY	311	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	312	WOMEN'S LAVATORY
304	PUBLIC WOMENS LAVATORY	313	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STORAGE
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSEKEEPING
310	VESTIBULE	326	ASSISTANT CHIEF'S
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEF'S OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA

KEYNOTE LEGEND

1. GUARDIAN FALL PROTECTION (CONCRETE SWIVEL ANCHOR #00242, GALVANIZED, 5.5) LADDER TIE OFF 12" ABOVE FINISH SLAB. FILL SOLID W/ 3000 P.S.I CONCRETE FIRST TWO BLOCK. ALIGN W/ TRAINING WINDOW CENTER LINE. SEE 2/A102
2. ALIGN ENDS OF TRENCH DRAINS/CATCH BASINS
2A. IN LINE CATCH BASIN
3. SOUND ATTENUATION BLANKETS IN WALL FRAMING FROM FLOOR TO UNDERSIDE OF STRUCTURE, G.W.B. TO EXTEND TO UNDERSIDE OF STRUCTURE; FILL VOIDS AT UNDERSIDE OF STRUCTURE PER DETAILS.
4. 4" HIGH CONCRETE HOUSEKEEPING PAD COORDINATE SIZE OF PAD WITH EQUIPMENT TO BE PLACED ATOP PAD WITH MANUFACTURERS REQUIREMENTS. COORDINATE LOCATION WITH ALL TRADES. SEE DIMENSION PLANS.
5. EXTRACTOR SLAB. COORDINATE SIZE OF PAD WITH EQUIPMENT TO BE PLACED ATOP PAD WITH MANUFACTURERS REQUIREMENTS. COORDINATE LOCATION WITH ALL TRADES. SEE STRUCTURAL DRAWINGS FOR EXTRACTOR SLAB DETAILS.
6. DOWNSPOUT TO STORM. SEE ROOF PLAN, ELEVATIONS & CIVIL DRAWINGS.
7. DISPLAY CASE - SEE DETAIL 9/A130
8. WATER HOSE REEL HIGH INSTALLATION SEE 11/2/A431
9. KEEP THIS WALL AREA CLEAR FROM FIXED OBJECTS THAT COULD INTERFERE WITH THE LADDER EVOLUTION TRAINING WINDOW. (SUCH AS SWITCHES,THERMOSTATS, LIGHT FIXTURES, ETC. COORDINATE WITH ALL TRADES.
10. LOUVER, SEE 1/A302 AND MECHANICAL DRAWINGS
11. AIR HOSE REEL SEE A100's, 3/A431 & PLUMBING DRAWINGS.
12. TRUCK FILL - SEE PLUMBING DWGS & 3/A430
13. COMPRESSED AIR TAP, WALL MOUNTED SEE PLUMBING DRAWINGS
14. FLOOR PENETRATION FOR DUCTWORK/PIPING ETC. COORDINATE SIZE OF OPENING WITH APPROPRIATE DRAWINGS AND DETAIL 4/A430. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. FIRE DEPARTMENT CONNECTION. SEE DETAIL 10/A304 & FIRE PROTECTION DRAWINGS.
16. THE WALL BETWEEN THE APPARATUS BAY AND THE BALANCE OF THE BUILDING IS TO BE AS AIRTIGHT AS POSSIBLE. ACCORDINGLY; ALL CONTRACTORS ARE TO MAKE ALL OF THEIR PENETRATIONS OF THIS WALL IN ACCORDANCE WITH MAXIMUM OPENING CRITERIA SET FORTH IN OBOO AND SEAL AS REQUIRED
17. O.H. DOOR SWITCH PANEL. SEE SHEET A432 CENTER IN WALL, TOP OF PANEL AT 10" A.F.F.
18. WALL MOUNTED SHOWER SYSTEM. SEE 11A/A111 AND PLUMBING DRAWINGS.
19. STEEL BOLLARD, SEE STRUCTURAL DWGS
20. DRYING RACK. SEE DETAIL 6/A430
21. KEEP THIS CEILING AREA CLEAR FROM FIXED OBJECTS THAT COULD INTERFERE WITH THE CONFINED SPACE EXTRACTION TRAINING OPENING. (SUCH AS LIGHT FIXTURES, SPRINKLER LINES, DUCTWORK, ETC.) COORDINATE WITH ALL TRADES.
22. ROUND OFF VERTICAL EDGE OF C.M.U. AT CORNER TO A MINIMUM OF 1/2" RADIUS.
23. FIRE ALARM PANEL. SEE FIRE PROTECTION DRAWINGS
24. 4" DIA. S.S. SLEEVE IN C.M.U. FLUSH WITH EACH FACE OF WALL. (EASE ALL EDGES) FOR HOUSING SCBA COMPRESSOR LINES FROM ROOM 106 TO 104 COORDINATE LOCTION WITH OWNER AND SCBA EQUIPMENT VENDOR RECOMENDATIONS. PROVIDE COMPRESSIBLE FILLER AT INSIDE OF SLEEVE AT EACH END AROUND COMPRESSOR LINE RUNS. ENSURE CLEAN NEAT APPEARANCE AND MUST BE FLUSH WITH FACE OF WALLS SEE 1/A300
25. COAT RACK AT 48" MAX TO TOP OF SHELF FOR ADA PORTIONS
26. FOAMED IN PLACE INSULATION (TYP). SEE SPECIFICATIONS FOR R-VALUE ALL EXPOSED FOAMED IN PLACE INSULATION ABOVE CEILING, IN TRUSS/ATTIC SPACE Etc... REQUIRES INTUMESCENT COATING. (TYP)
27. ENTRY MAT - SEE SPECIFICATIONS AND DETAIL 8/A430
28. PLASTIC LAMINATE BASE AND WALL CABINETS. SEE DRAWING A700

X-BRACING. SEE STRUCTURAL DRAWINGS

EP — ELECTRICAL PANEL SEE ELECTRICAL DRAWINGS

HC — MANIFOLD CABINET FOR RADIANT PIPES SEE DETAIL 2/A430, MECHANICAL & STRUCTURAL DRAWINGS

CABINET UNIT HEATER SEE MECHANICAL DRAWINGS

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

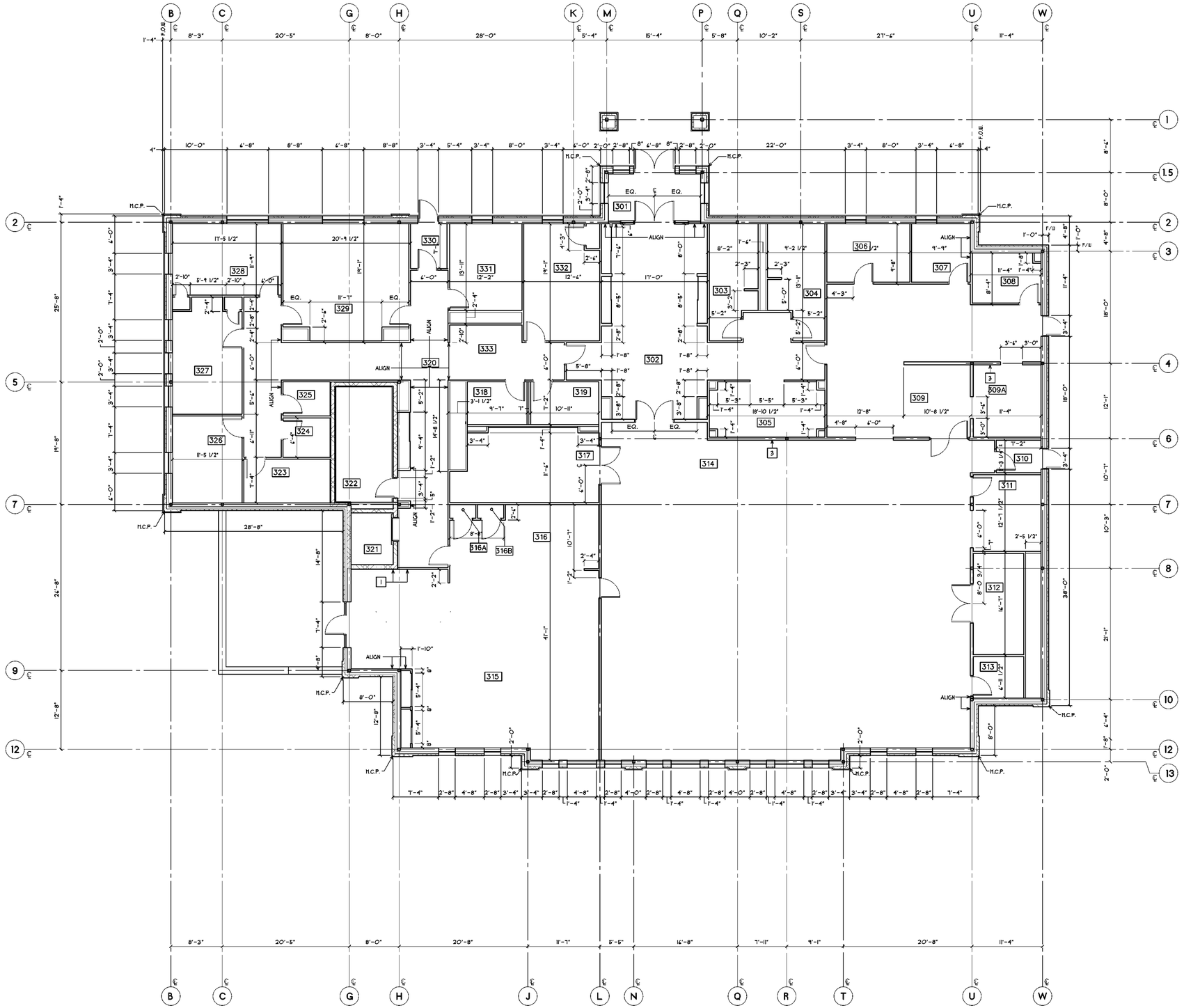
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

3rd FLOOR PLAN

SCALE: 1/8" =1'-0"
DWG. BY: RAM/JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A102

PLOT TIME: 11:04 AM



GENERAL NOTES

1. ALL PLAN DIMENSIONS ARE NOMINAL U.O.N.
2. DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF FRAMING, NOT TO FACE OF FURRING.
3. FIRST FLOOR REFERENCE ELEVATION 479.0' = 100'-0".
   2ND/MEZZANINE FLOOR REFERENCE ELEVATION 489.0' = 110'-0"
   MECH./ELEC. FLOOR REFERENCE ELEVATION 489.46' = 110'-8"
   THIRD FLOOR REFERENCE ELEVATION 499.0' = 120'-0"
4. TYPICAL DIMENSION AT HINGE SIDE OF INTERIOR DOOR UNLESS OTHERWISE NOTED — 3" TYP.
5. ALL PENETRATIONS THROUGH A RATED ASSEMBLY ARE TO BE PROPERLY FIRE STOPPED. SEE FIRE STOPPING SPECIFICATION.
6. A = ACTIVE DOOR LEAF
7. IN ALL LAVATORIES, ROOMS WITHOUT DROP CEILINGS AND IN ALL ROOMS OR PARTITIONS WITH ACOUSTICAL INSULATION, WALLS ARE TO EXTEND TO UNDERSIDE OF STRUCTURE.
8. SEE ALSO 1/4" SCALE PLANS FOR ADDITIONAL WALL TYPE AND DIMENSION INFORMATION.
9. SEE ALSO ELEVATIONS FOR CONTROL JOINTS (CJ's) IN C.M.U.
10. ALL SHOWER STALLS TO HAVE 5/8" FIBERGLASS FACED G.W.B. AT TILED WALLS.
11. PROVIDE METAL STUD BLOCKING BETWEEN METAL STUD FRAMING FOR WALL MOUNTED OVERHEAD CABINETS AND SHELVING. COORDINATE WITH INSTALLER. SEE A100'S.
12. SEE A700 FOR FFE DESIGNATIONS, EQUIPMENT PLACEMENT, DIMENSIONS AND NOTES.
13. SEE 100.1, 101 & 102.1 FOR DIMENSION PLANS
14. SEE 10/A430 FOR TYPICAL INTERIOR WALL CONNECTION DETAILS
15. SEE 4 & 5/A430 FOR TYPICAL FLOOR AND WALL PENETRATION CLOSURES

3rd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
301	VESTIBULE	348	CLOSET
302	LOBBY	371	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	381	WOMEN'S LAVATORY
304	PUBLIC WOMENS LAVATORY	391	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STORAGE
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSEKEEPING
310	VESTIBULE	326	ASSISTANT CHIEF'S
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEF'S OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA

DIMENSION PLAN KEY NOTES

1. ALIGN FACE OF FURRING WITH FACE OF METAL STUDS. ENSURE ALIGNMENT OF G.W.B.
2. COORDINATE DIMENSION WITH ELEVATOR MANUFACTURER.
3. CENTER WALL ON COLUMN LINE
4. 4" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE SIZE OF PAD WITH EQUIPMENT TO BE PLACED ATOP PAD WITH MANUFACTURERS REQUIREMENTS. COORDINATE LOCATION WITH ALL TRADES. SEE DIMENSION PLANS.
5. EXTRACTOR SLAB. COORDINATE SIZE OF PAD WITH EQUIPMENT TO BE PLACED ATOP PAD WITH MANUFACTURERS REQUIREMENTS. COORDINATE LOCATION WITH ALL TRADES. SEE STRUCTURAL DRAWINGS FOR EXTRACTOR SLAB DETAILS.

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9340 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

3rd FLOOR DIMENSION PLAN

SCALE: 1/8" =1'-0"
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

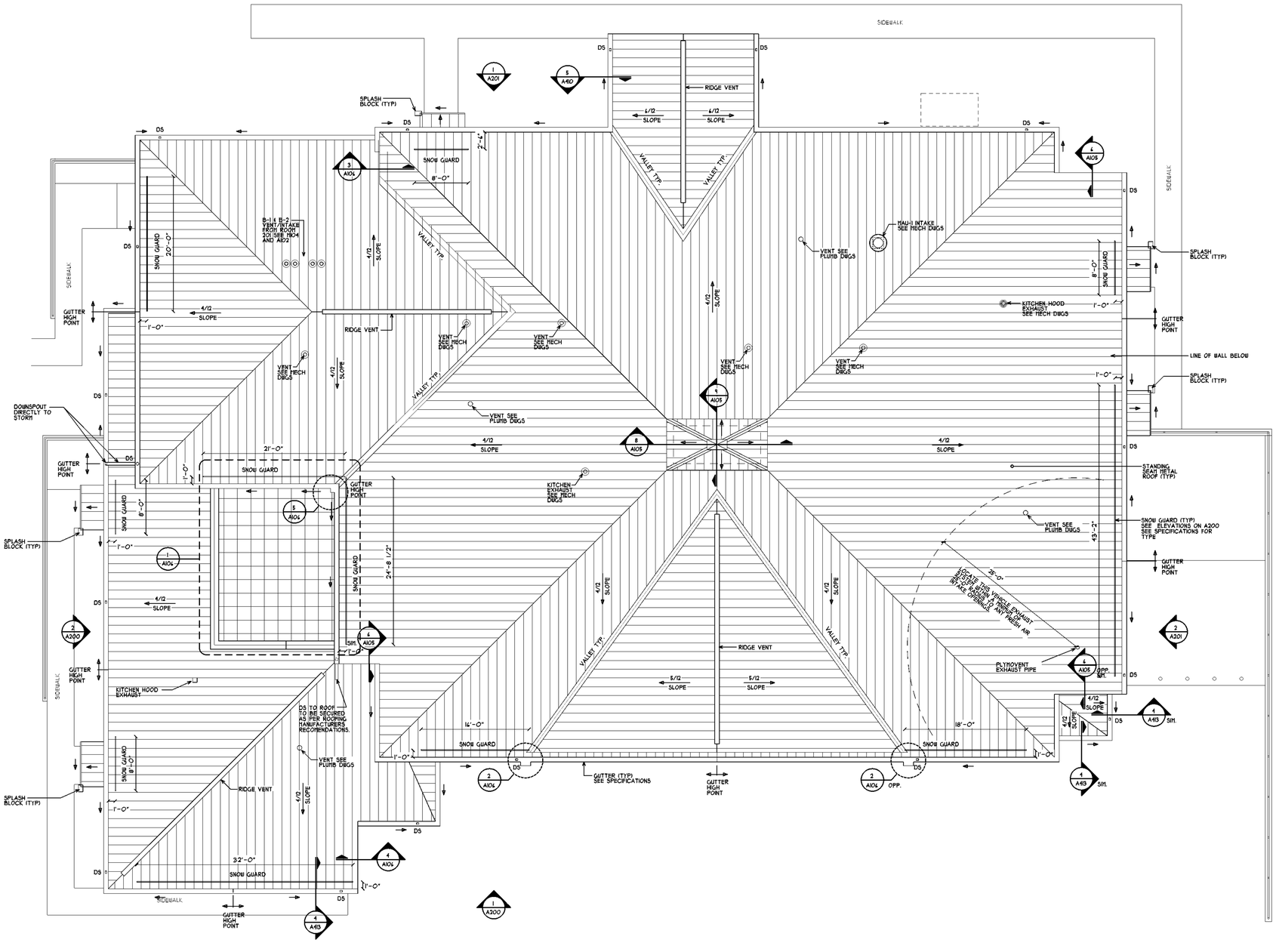
A102.1

PLOT TIME: 11:01 AM

1 / A102.1 3rd FLOOR DIMENSION PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH
NORTH

DWG ID#: S:\J Drive\Putnam Valley\PV_A100



1 A104 ROOF PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH
NORTH

DWG ID#: S:\J Drive\Putnam Valley\PV_A104

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

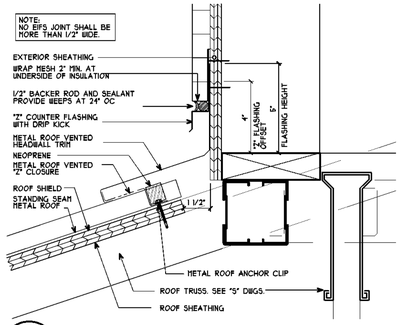
	DATE	DESCRIPTION
7		
6		
5		
4		
3		
2		
1		

ROOF PLAN

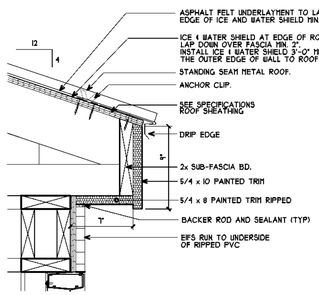
SCALE: 1/8" = 1'-0"
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A104

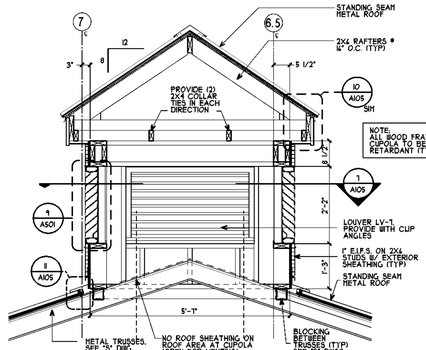
PLOT TIME: 11:09 AM



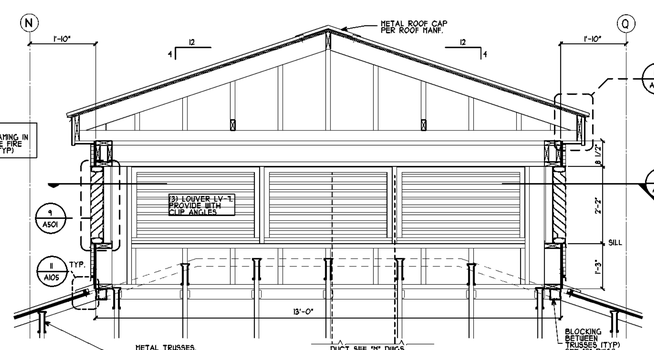
11 A105 ENDWALL DETAIL
SCALE: 3" = 1'-0" 8 & 9/A105



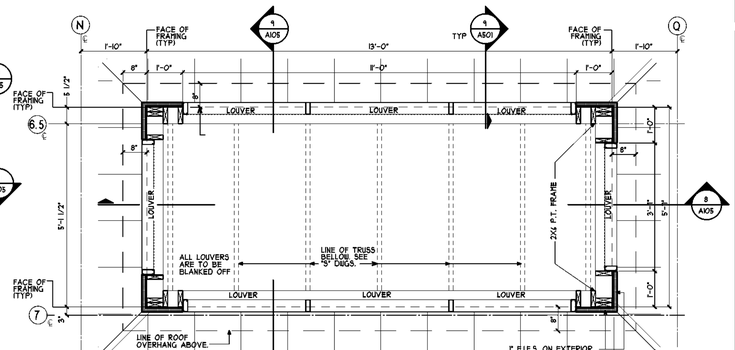
10 A105 SECTION: EAVE AT CUPOLA
SCALE: 1 1/2" = 1'-0" 8 & 9/A105



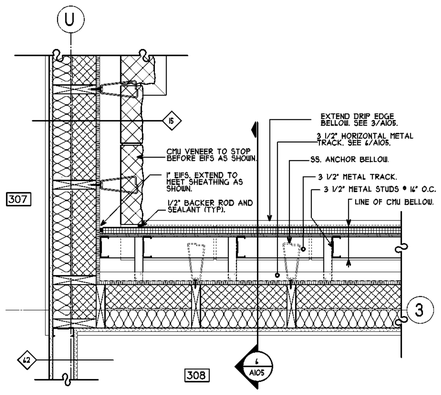
9 A105 CUPOLA SECTION
SCALE: 1/2" = 1'-0" 1/A104



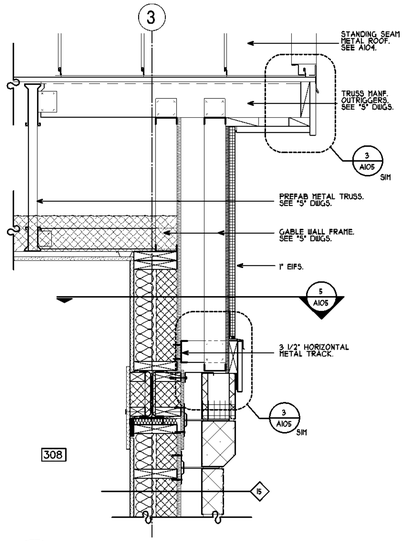
8 A105 CUPOLA SECTION
SCALE: 1/2" = 1'-0" 1/A104



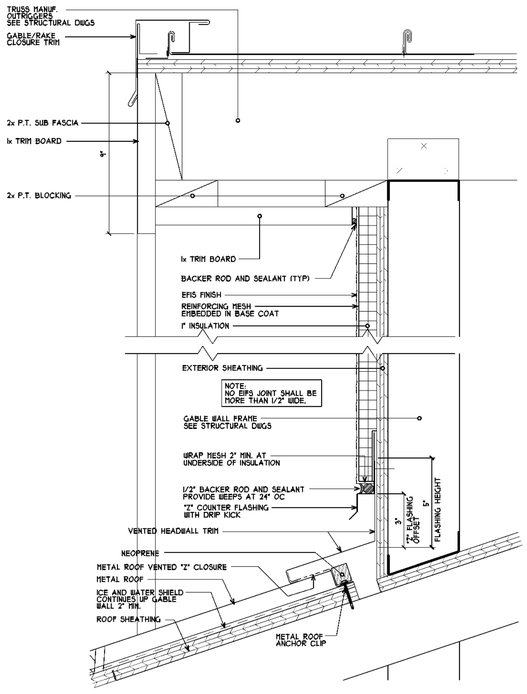
7 A105 CUPOLA PLAN
SCALE: 1/2" = 1'-0" 8/A105



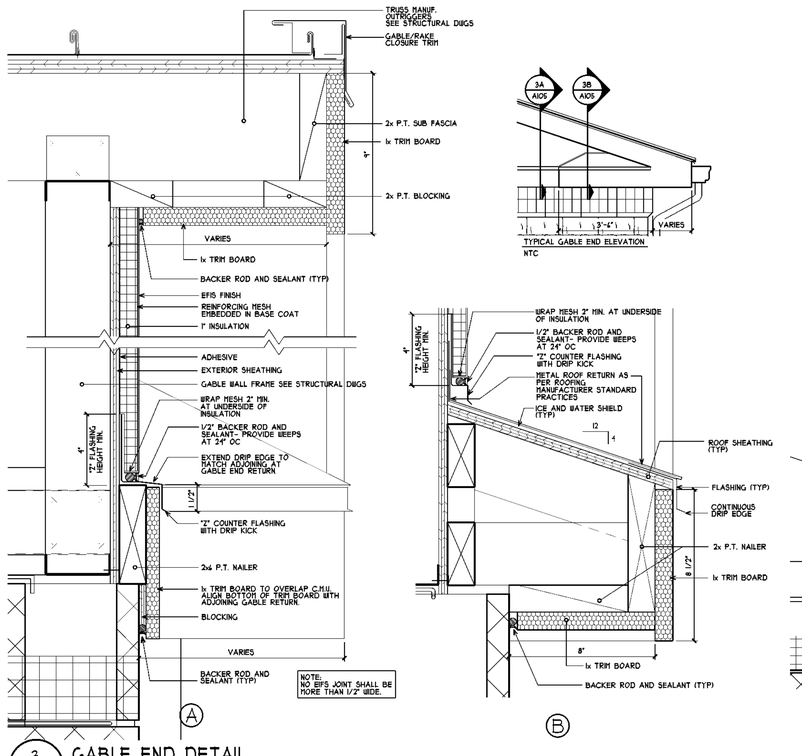
5 A105 GABLE END WALL PLAN DETAIL
SCALE: 1" = 1'-0" 6/A105



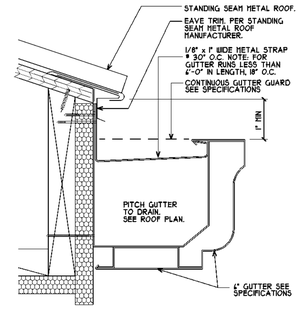
6 A105 GABLE END WALL SECTION
SCALE: 1" = 1'-0" 1/A104



4 A105 GABLE END DETAIL
SCALE: 3" = 1'-0" 1/A410

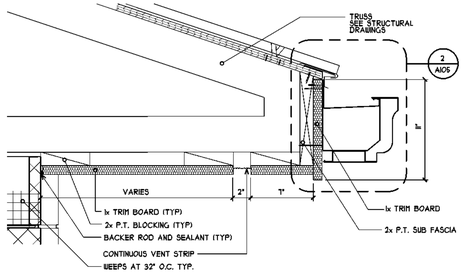


3 A105 GABLE END DETAIL
SCALE: 3" = 1'-0" 4/A410



SEE ROOF PLAN ON SHEET A104 FOR GUTTER, DOWNSPOUT LOCATIONS.

2 A105 TYPICAL GUTTER DETAIL
SCALE: 3" = 1'-0" 1/A105



1 A105 TYPICAL EAVE DETAIL
SCALE: 1 1/2" = 1'-0" 1/A105

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX: (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272 FAX: (845) 291-1439

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

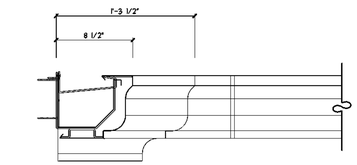
ROOF DETAILS

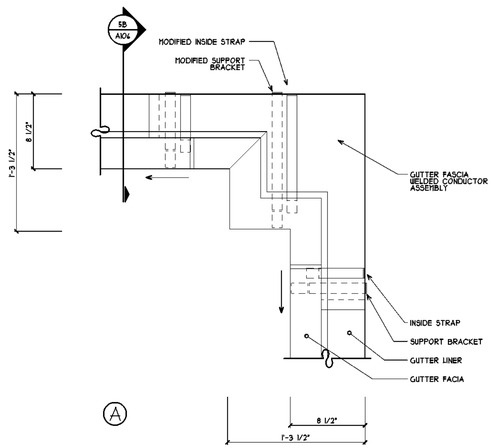
SCALE: AS NOTED
DWG. BY: JDA, JC
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A105

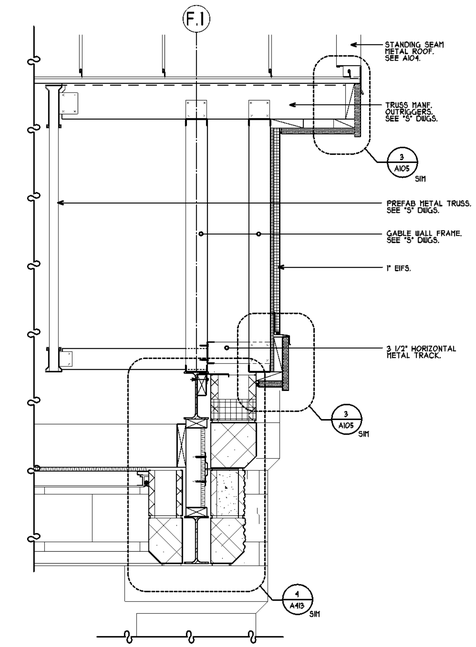
PLOT TIME: 11:11 AM

DWG ID#: S:\J Drive\Putnam Valley\PV_A104

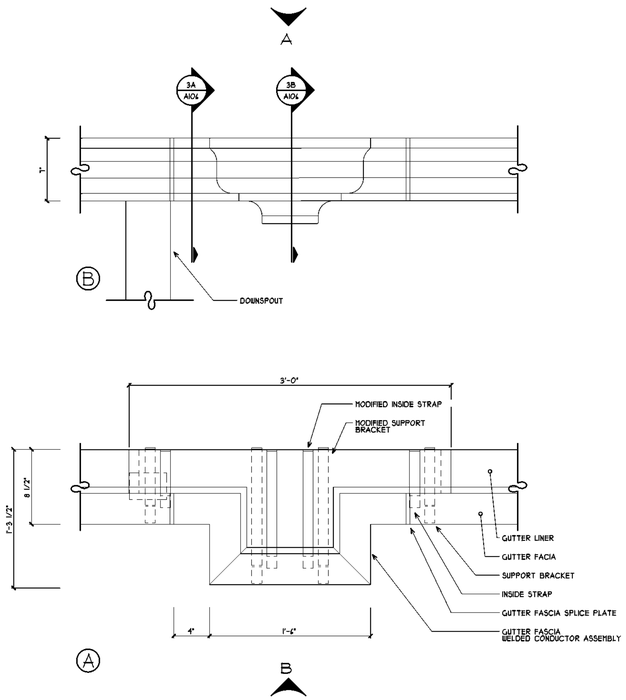


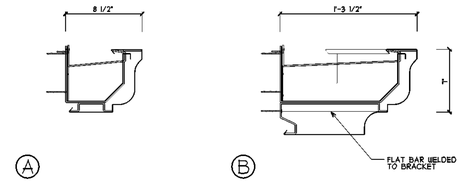


5 A-106 COLLECTION BOX DETAIL
SCALE: 1-1/2" = 1'-0"



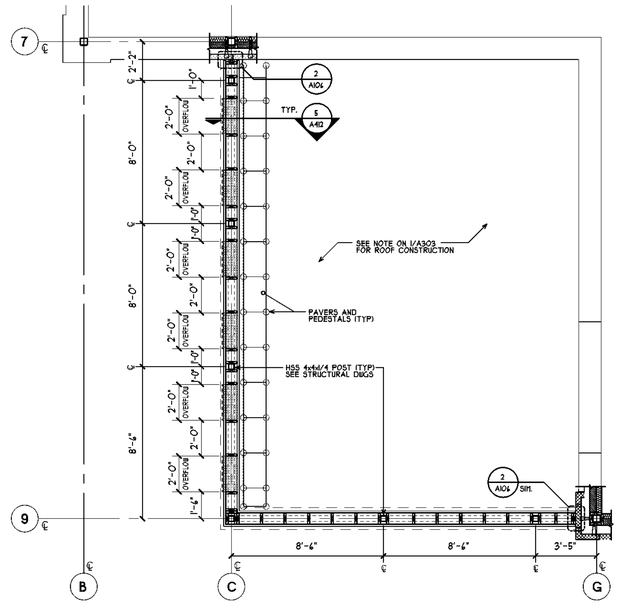
4 A106 GABLE END WALL SECTION
SCALE: 1" = 1'-0" 1/A104





3 A-106 COLLECTION BOX DETAIL
SCALE: 1-1/2" = 1'-0"

2 A-106 COLLECTION BOX DETAIL
SCALE: 1-1/2" = 1'-0"



1 A106 PATIO OVERFLOW SCUPPER FRAMING PLAN
SCALE: 1/4" = 1'-0"

DWG ID#: S:\J Drive\Putnam Valley\PV_A104

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4490 FAX (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

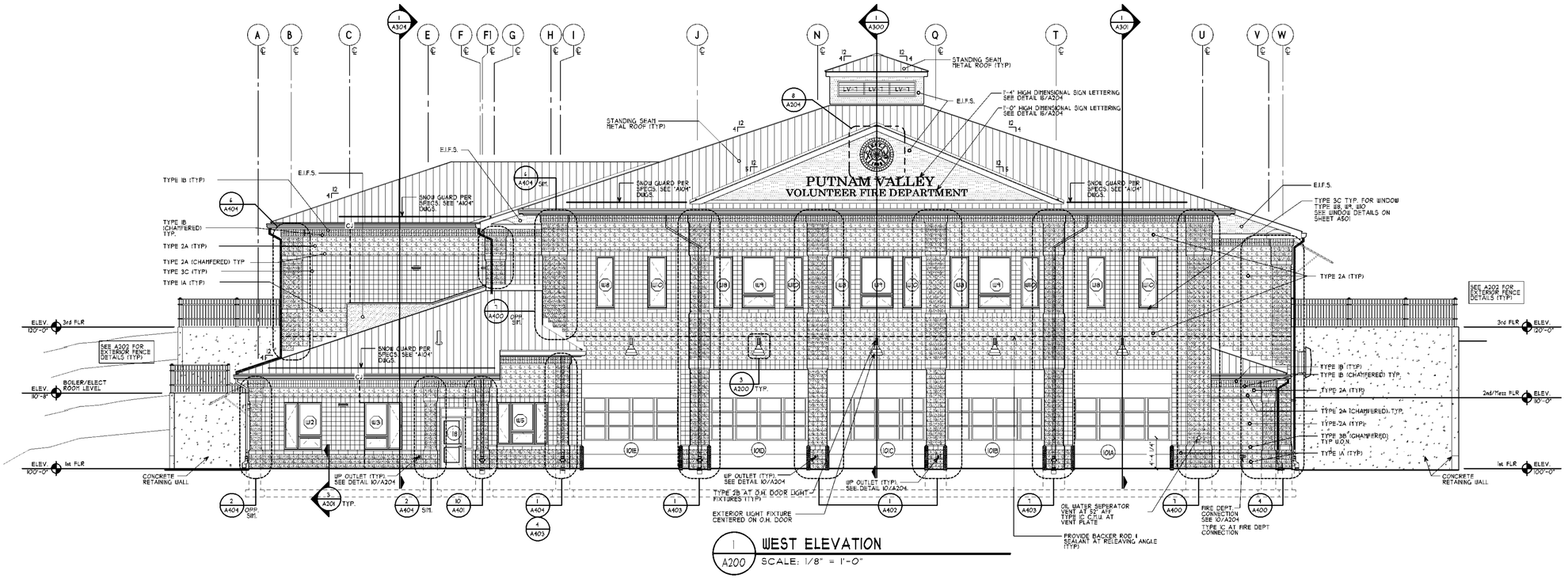
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ROOF PLAN DETAILS

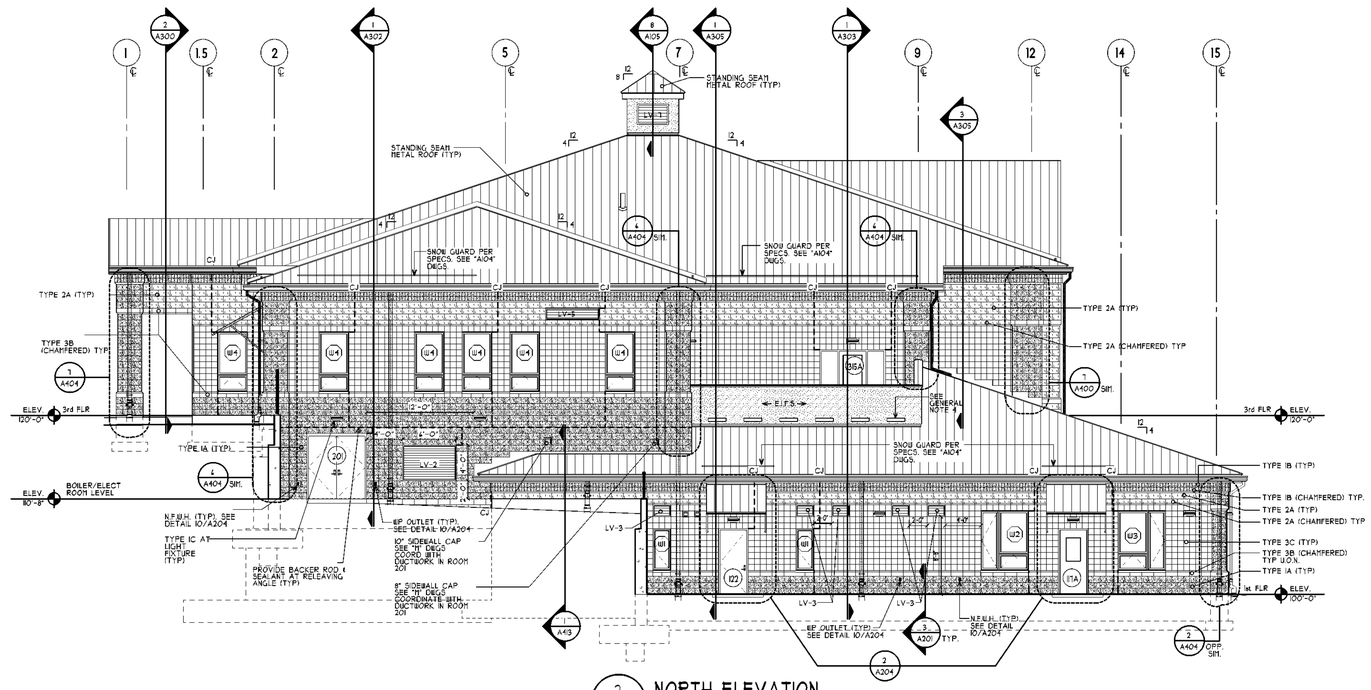
SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A106

PLOT TIME: 11:15 AM



1 A200 WEST ELEVATION
SCALE: 1/8" = 1'-0"



2 A200 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

MASONRY LEGEND

BLOCK DESCRIPTION		REMARKS
COLOR 1 - BASIS OF DESIGN: SPLIT FACE - ZAPPALA BLOCK - 125 GROUND FACE - ZAPPALA BLOCK - 125		
TYPE 1A	SPLIT FACE	VARYING WIDTHS
TYPE 1B	THREE SCORE GROUND FACE	2" CHAMFER AND REGULAR VENEER
TYPE 1C	GROUND FACE	VARYING WIDTHS
COLOR 2 - BASIS OF DESIGN: SPLIT FACE - ZAPPALA BLOCK - 104 GROUND FACE - ZAPPALA BLOCK - 104		
TYPE 2A	SPLIT FACE	2" CHAMFER AND REGULAR VENEER
TYPE 2B	GROUND FACE	O.H. DOOR LIGHTS
COLOR 3 - BASIS OF DESIGN: GROUND FACE - ZAPPALA BLOCK - 124		
TYPE 3A	GROUND FACE	REGULAR VENEER
TYPE 3B	GROUND FACE	2" CHAMFERED/REGULAR VENEER
TYPE 3C	SINGLE SCORE GROUND FACE	

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF ALL EXTERIOR WALL AND ROOF PENETRATIONS WITH THE APPROPRIATE CONTRACTOR ITEMS SHOWN ON ELEVATIONS, SECTIONS, ETC. ARE FOR REFERENCE PURPOSES ONLY.
2. COORDINATE WITH STRUCTURAL DRAWINGS FOR ALL BOND BEAM LOCATIONS
3. SEE SPECIFICATIONS FOR ALL INFORMATION PERTAINING TO THE TREATMENT OF C.M.U.
4. COORDINATE OVERFLOW SCUPPER OPENINGS WITH DETAIL 1/A104
5. THE C.M.U. PATTERNS SHOWN AT THE PILASTERS ARE FOR GRAPHIC REPRESENTATION AND DO NOT REFLECT THE THE ACTUAL MASONRY BLOCK PATTERNS. SEE A400'S FOR C.M.U. PATTERNS.

MASONRY NOTES

1. UNIT WIDTHS VARY. SEE PLANS WALLTYPES AND DETAILS.
2. SINGLE SCORE C.M.U.: SCORES TO RECIEVE MORTAR. MORTAR IS TO BE TOOLED TO MATCH JOINTS BETWEEN UNITS.
3. THREE SCORE C.M.U.: SCORES DO NOT RECIEVE MORTAR. THE JOINTS BETWEEN UNITS ARE TO BE RAKED BACK TO MATCH SCORES.
4. SEE A400 THRU A404 FOR ADDITIONAL CONTROL JOINTS AT PILASTERS. PROVIDE CONTROL JOINTS AT ALL PILASTERS SIMILAR TO THESE DETAILS.

LOUVER SCHEDULE

DESIGNATION	LOUVER SIZE (LxH)	DESCRIPTION
LV-1	72" x 72"	SEE 1/A501 & SOUTH ELEV.
LV-2	72" x 48"	SEE 8/A501 & NORTH ELEV.
LV-3	24" x 16"	SEE NORTH ELEV.
LV-4	16" x 16"	SEE SOUTH ELEV.
LV-5	72" x 16"	SEE NORTH ELEV.
LV-6	16" x 16"	SEE NORTH & SOUTH ELEV.
LV-7	2'-2" x 3'-7"	SEE 9/A501, 8&9/A105

NOTE: ALL LOUVERS TO BE .081 or 12ga. ALUMINUM, DRAINABLE, NON FLANGED WITH 2" FRAME, INSECT SCREEN & KYNAR FINISH. COLOR TO BE SELECTED BY ARCHITECT. (TYP)

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9460 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

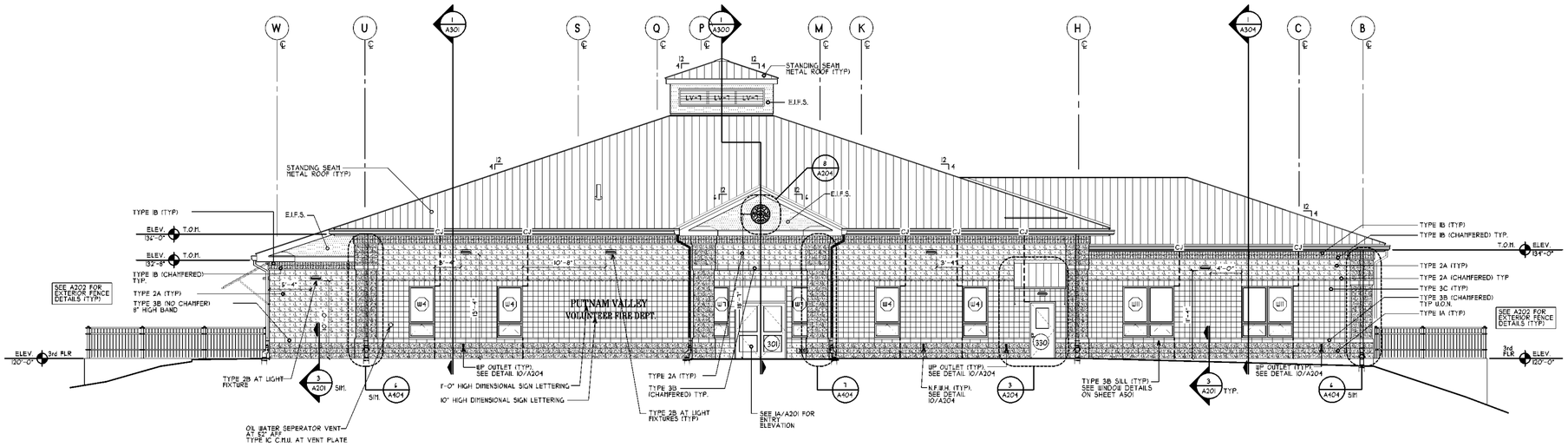
ELEVATIONS AND DETAILS

SCALE: AS NOTED
DWG. BY: RAM/JDC/JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A200

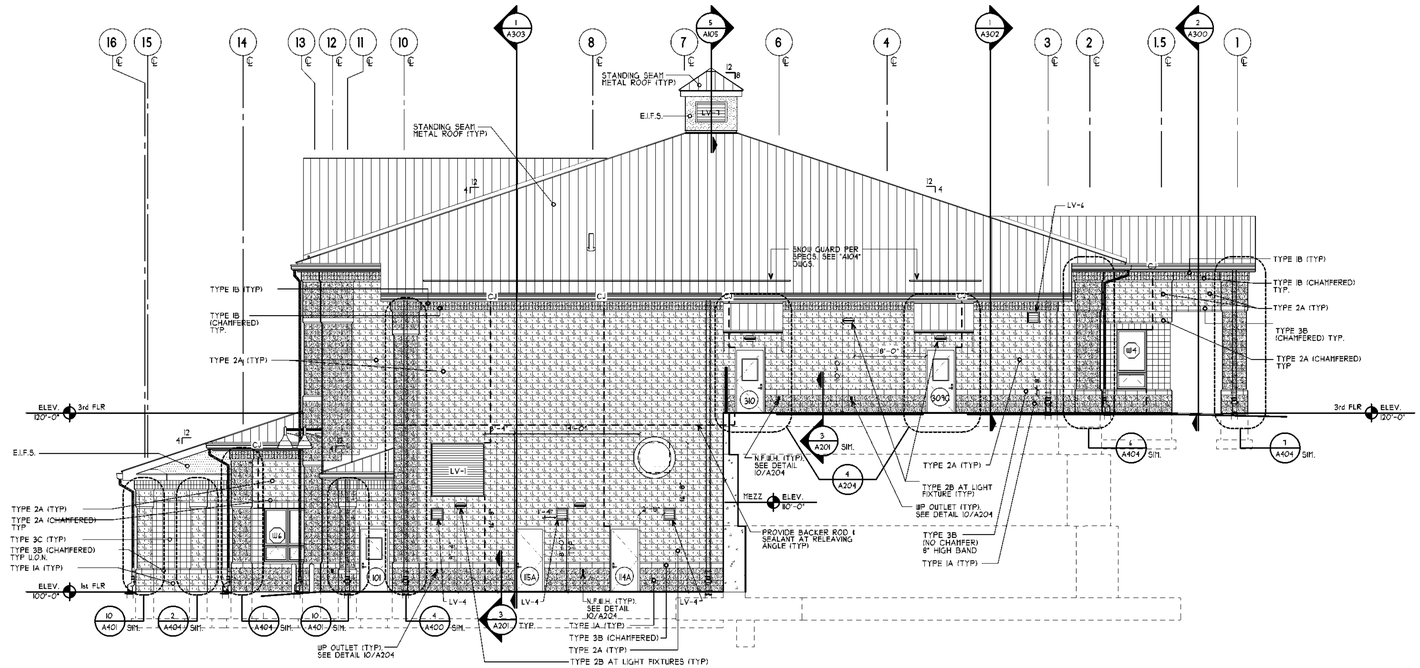
PLOT TIME: 11:18 AM

DWG ID#: S:\V Drive\Putnam Valley\PV_A200



1 / A201 **EAST ELEVATION**

SCALE: 1/8" = 1'-0"



2 / A201 **SOUTH ELEVATION**

SCALE: 1/8" = 1'-0"

MASONRY LEGEND

BLOCK DESCRIPTION		REMARKS
COLOR 1 - BASIS OF DESIGN: SPLIT FACE - ZAPPALA BLOCK - 125 GROUND FACE - ZAPPALA BLOCK - 125		
TYPE 1A	SPLIT FACE	VARYING WIDTHS
TYPE 1B	THREE SCORE GROUND FACE	2" CHAMFER AND REGULAR VENEER
TYPE 1C	GROUND FACE	VARYING WIDTHS
COLOR 2 - BASIS OF DESIGN: SPLIT FACE - ZAPPALA BLOCK - 104 GROUND FACE - ZAPPALA BLOCK - 104		
TYPE 2A	SPLIT FACE	2" CHAMFER AND REGULAR VENEER
TYPE 2B	GROUND FACE	O.H. DOOR LIGHTS
COLOR 3 - BASIS OF DESIGN: GROUND FACE - ZAPPALA BLOCK - 124		
TYPE 3A	GROUND FACE	REGULAR VENEER
TYPE 3B	GROUND FACE	2" CHAMFERED/REGULAR VENEER
TYPE 3C	SINGLE SCORE GROUND FACE	

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF ALL EXTERIOR WALL AND ROOF PENETRATIONS WITH THE APPROPRIATE CONTRACTOR. ITEMS SHOWN ON ELEVATIONS, SECTIONS, ETC. ARE FOR REFERENCE PURPOSES ONLY.
2. COORDINATE WITH STRUCTURAL DRAWINGS FOR ALL BOND BEAM LOCATIONS
3. SEE SPECIFICATIONS FOR ALL INFORMATION PERTAINING TO THE TREATMENT OF C.M.U.
4. COORDINATE OVERFLOW SCUPPER OPENINGS WITH DETAIL 1/A104
5. THE C.M.U. PATTERNS SHOWN AT THE PILASTERS ARE FOR GRAPHIC REPRESENTATION AND DO NOT REFLECT THE THE ACTUAL MASONRY BLOCK PATTERNS. SEE A600'S FOR C.M.U. PATTERNS.

MASONRY NOTES

1. UNIT WIDTHS VARY. SEE PLANS WALLTYPES AND DETAILS.
2. SINGLE SCORE C.M.U.: SCORES TO RECIEVE MORTAR. MORTAR IS TO BE TOOLED TO MATCH JOINTS BETWEEN UNITS.
3. THREE SCORE C.M.U.: SCORES DO NOT RECIEVE MORTAR. THE JOINTS BETWEEN UNITS ARE TO BE RAKED BACK TO MATCH SCORES.
4. SEE A400 THRU A404 FOR ADDITIONAL CONTROL JOINTS AT PILASTERS. PROVIDE CONTROL JOINTS AT ALL PILASTERS SIMILAR TO THESE DETAILS.

LOUVER SCHEDULE

DESIGNATION	LOUVER SIZE (LxH)	DESCRIPTION
LV-1	72" x 72"	SEE 1/A501 & SOUTH ELEV.
LV-2	72" x 48"	SEE 8/A501 & NORTH ELEV.
LV-3	24" x 16"	SEE NORTH ELEV.
LV-4	16" x 16"	SEE SOUTH ELEV.
LV-5	72" x 16"	SEE NORTH ELEV.
LV-6	16" x 16"	SEE NORTH & SOUTH ELEV.
LV-7	2'-2" x 3'-7"	SEE 9/A501, 8&9/A105

NOTE: ALL LOUVERS TO BE .081 or 12ga. ALUMINUM, DRAINABLE, NON FLANGED WITH 2" FRAME, INSECT SCREEN & KYNAR FINISH. COLOR TO BE SELECTED BY ARCHITECT. (TYP)

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9460 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272 FAX (845) 291-1939

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

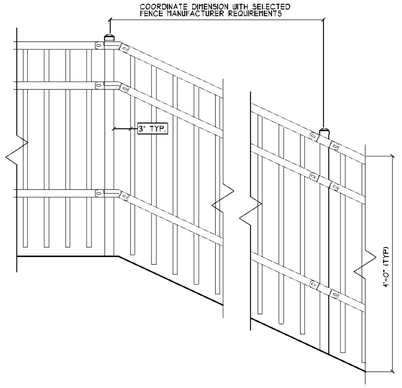
ELEVATIONS AND DETAILS

SCALE: AS NOTED
DWG. BY: RAM/JDC/JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A201

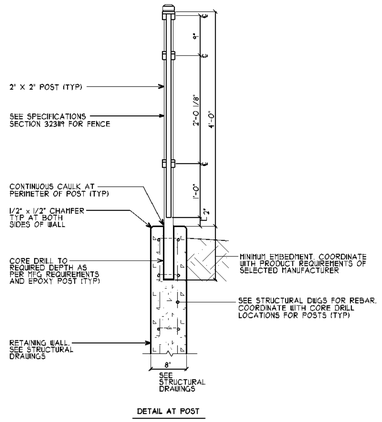
PLOT TIME: 11:39 AM

DWG ID#: S:\DriveT\Putnam Valley\PV_A200



FENCE RUNS ENTIRE LENGTH OF RETAINING WALLS (TYP)

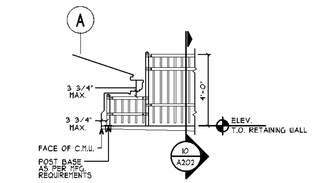
11 A202 — ELEVATION DETAIL TYPICAL EXTERIOR RAILING
SCALE: 3/4" = 1'-0"



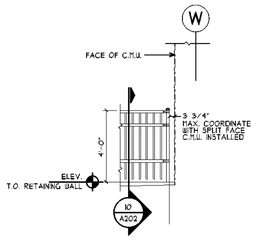
DETAIL AT POST

BASIS OF DESIGN: AMERISTAR FENCE, MONTAGE (MAJESTIC) 3-RAIL PANEL 2" AIR GAP 4'-0" HIGH X 8'-0" LENGTH (TYP) - 2" x 2" POST

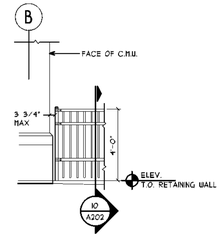
10 A202 — SECTION DETAIL TYPICAL EXTERIOR RAILING
SCALE: 3/4" = 1'-0"



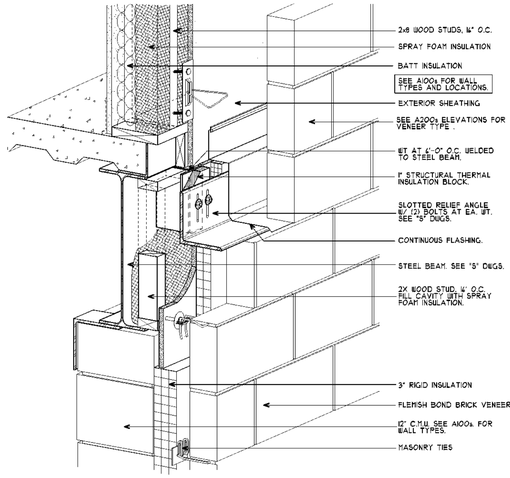
9 A202 — EXTERIOR RAILING ELEVATION
SCALE: 1/4" = 1'-0" 1/A101



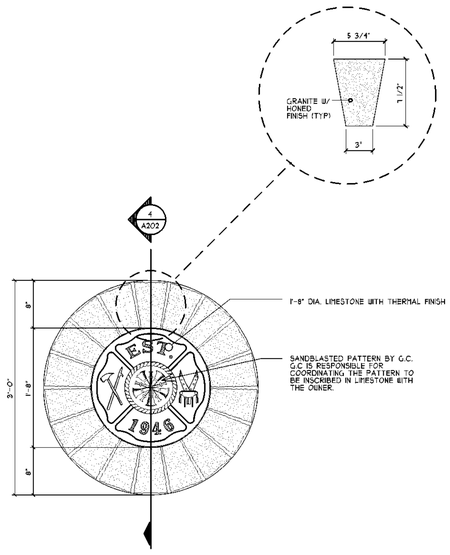
8 A202 — EXTERIOR RAILING ELEVATION
SCALE: 1/4" = 1'-0" 1/A102



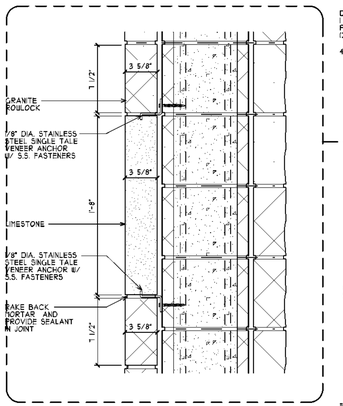
7 A202 — EXTERIOR RAILING ELEVATION
SCALE: 1/4" = 1'-0" 1/A102

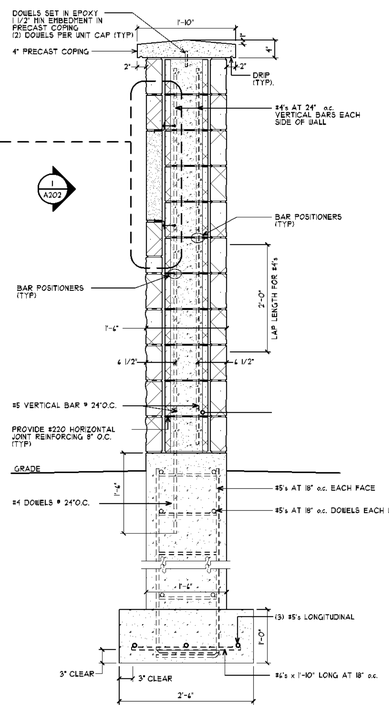


6 A202 — RELIEF ANGLE DETAIL
SCALE: 1-1/2" = 1'-0"

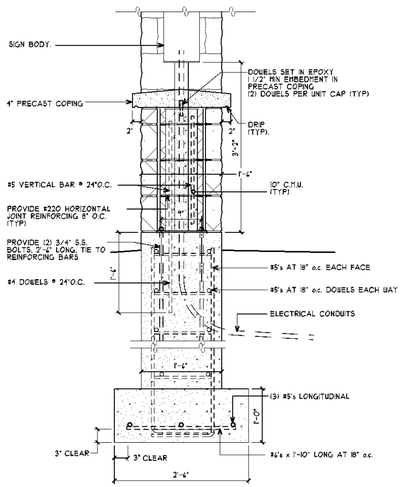


5 A202 — SITE SIGN MEDALLION ELEVATION
SCALE: 1" = 1'-0"

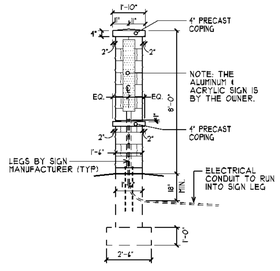




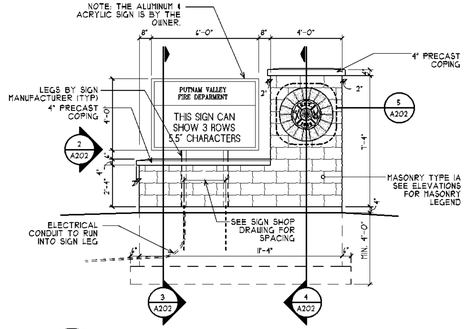
4 A202 — SECTION: SIGN DETAIL
SCALE: 3/4" = 1'-0"



3 A202 — SECTION: SIGN DETAIL
SCALE: 3/4" = 1'-0"



2 A202 — SITE SIGN SIDE ELEVATION
SCALE: 1/4" = 1'-0"



1 A202 — SITE SIGN FRONT ELEVATION
SCALE: 1/4" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4490 FAX (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

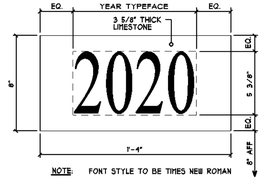
SITE SIGN ELEVATION AND DETAILS

SCALE: AS NOTED
DWG. BY: JDC/PT/JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A202

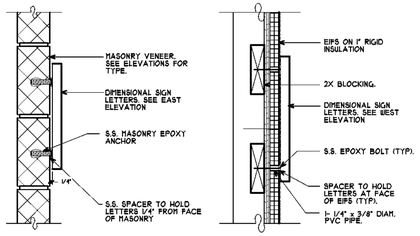
PLOT TIME: 11:41 AM

DWG ID#: S:\J Drive\Putnam Valley\PV_A200



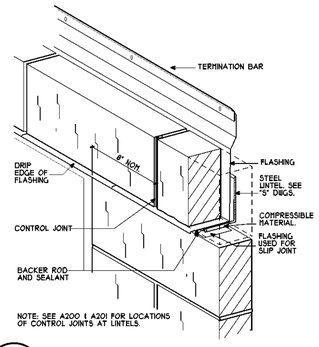
16 / A204 DATE STONE DETAIL — VERIFY DATE WITH OWNER

SCALE: 2" = 1'-0" — 1/A201



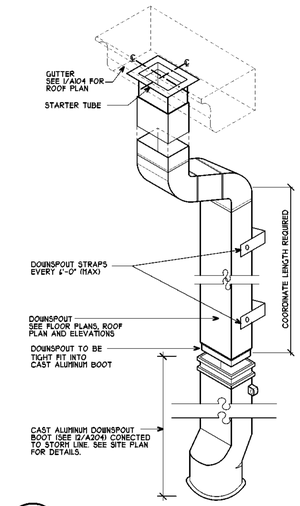
15 / A204 MOUNTING DETAIL FOR SIGN LETTERS

SCALE: 1 1/2" = 1'-0" — 1/A200, 1/A201



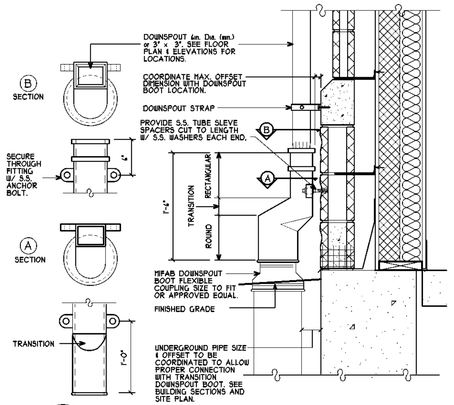
14 / A204 CONTROL JOINT @ LOOSE LINTEL

SCALE: 1-1/2" = 1'-0"



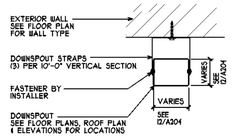
13 / A204 DOWNSPOUT DETAIL

SCALE: NOT TO SCALE



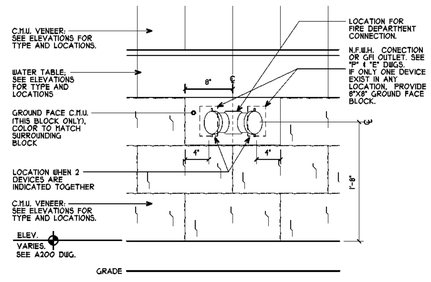
12 / A204 DOWNSPOUT TO STORM TRANSITION

SCALE: 1" = 1'-0"



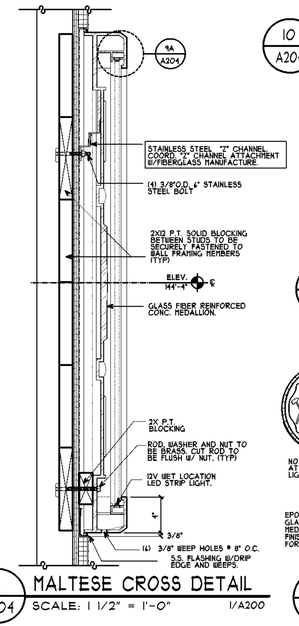
11 / A204 DOWNSPOUT SECTION

SCALE: 1-1/2" = 1'-0" — 12/A204



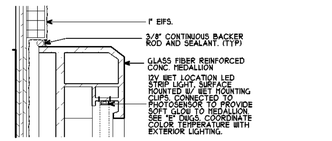
10 / A204 FIRE DEPARTMENT CONNECTION

SCALE: 1" = 1'-0" — A100 & A200



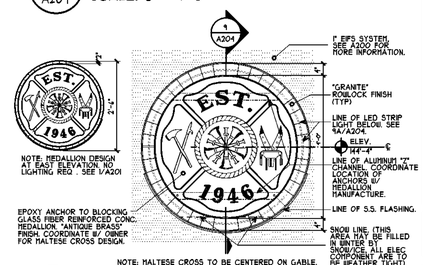
9 / A204 MALTESE CROSS DETAIL

SCALE: 1 1/2" = 1'-0" — 1/A200



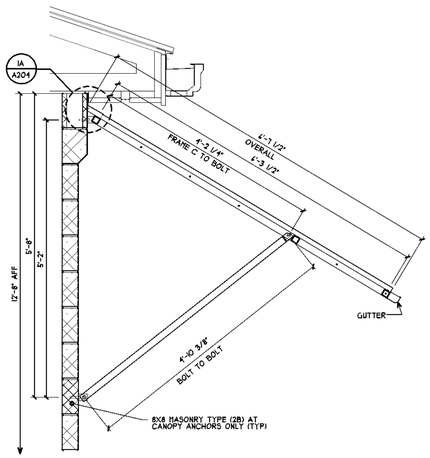
9A / A204 LED STRIP LIGHT MOUNTING DETAIL

SCALE: 3" = 1'-0"



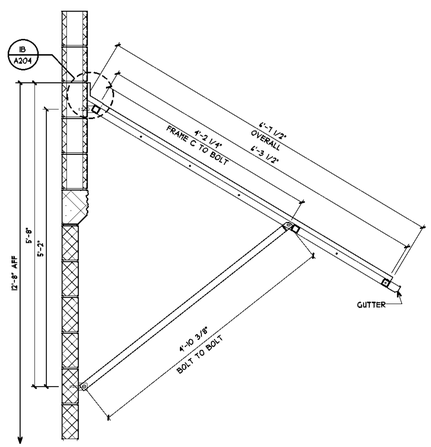
8 / A204 MEDALLION ELEVATION DETAIL

SCALE: 1/2" = 1'-0" — 1/A200, 1/A201



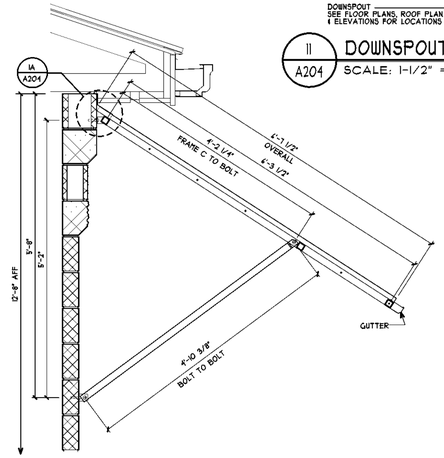
7 / A204 CANOPY SECTION

SCALE: 3/4" = 1'-0" — 4/A204



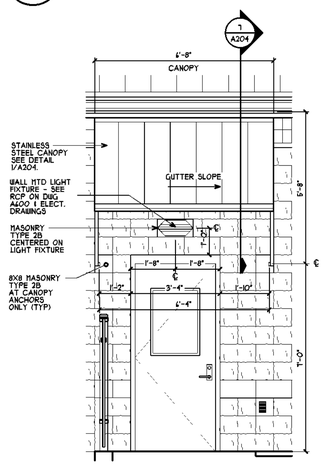
6 / A204 CANOPY SECTION

SCALE: 3/4" = 1'-0" — 3/A204



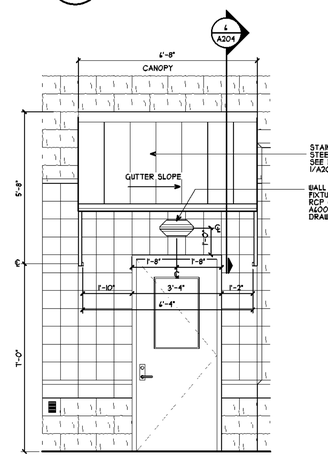
5 / A204 CANOPY SECTION

SCALE: 3/4" = 1'-0" — 2/A204



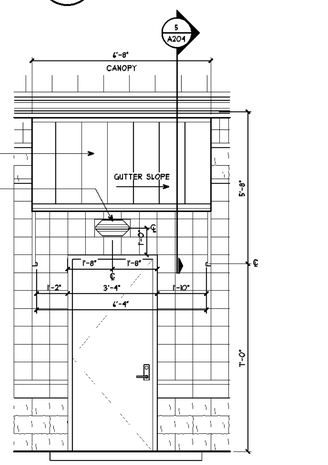
4 / A204 ENTRY CANOPY AT DOORS 309C & 310

SCALE: 3/8" = 1'-0" — 2/A201



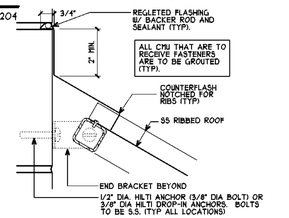
3 / A204 ENTRY CANOPY AT DOOR 330.

SCALE: 3/8" = 1'-0" — 1/A201



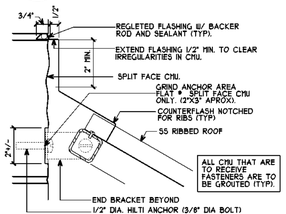
2 / A204 ENTRY CANOPY AT DOORS 117A & 122

SCALE: 3/8" = 1'-0" — 2/A200



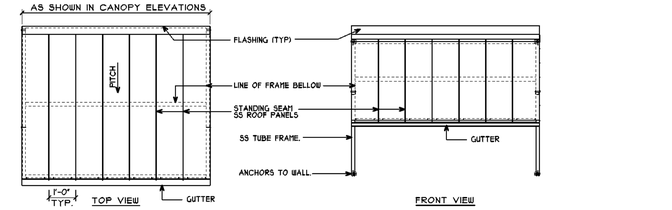
1A / A204 COUNTERFLASH AT SMOTH FACE CMU

NOT TO SCALE



1B / A204 COUNTERFLASH AT SPLIT FACE CMU

NOT TO SCALE



1 / A204 S.S. CANOPY DETAILS.

SCALE: 3/8" = 1'-0" — A200

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

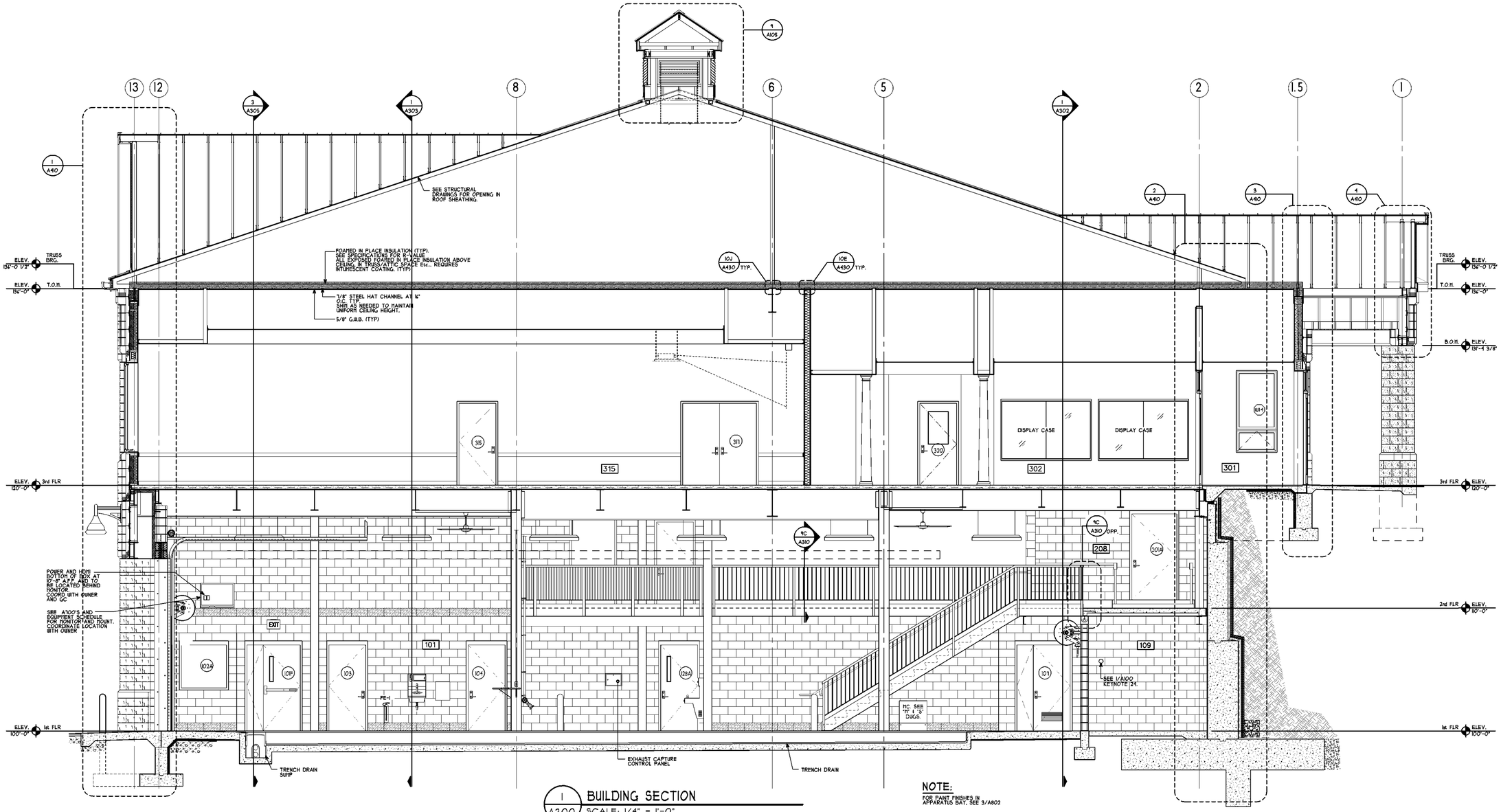
EXTERIOR DETAILS

SCALE: AS NOTED
DWG. BY: RAM/JDC/JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A204

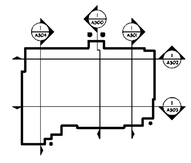
PLOT TIME: 11:45 AM

DWG ID#: S:\J Drive\Putnam Valley\PV_A204



1 / A300 BUILDING SECTION
SCALE: 1/4" = 1'-0"

NOTE:
FOR PAINT FINISHES IN APPARATUS BAY, SEE 3/A802



DWG ID#: S:\J Drive\Putnam Valley\PV_A300-301-302

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW.

NEW STATION FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

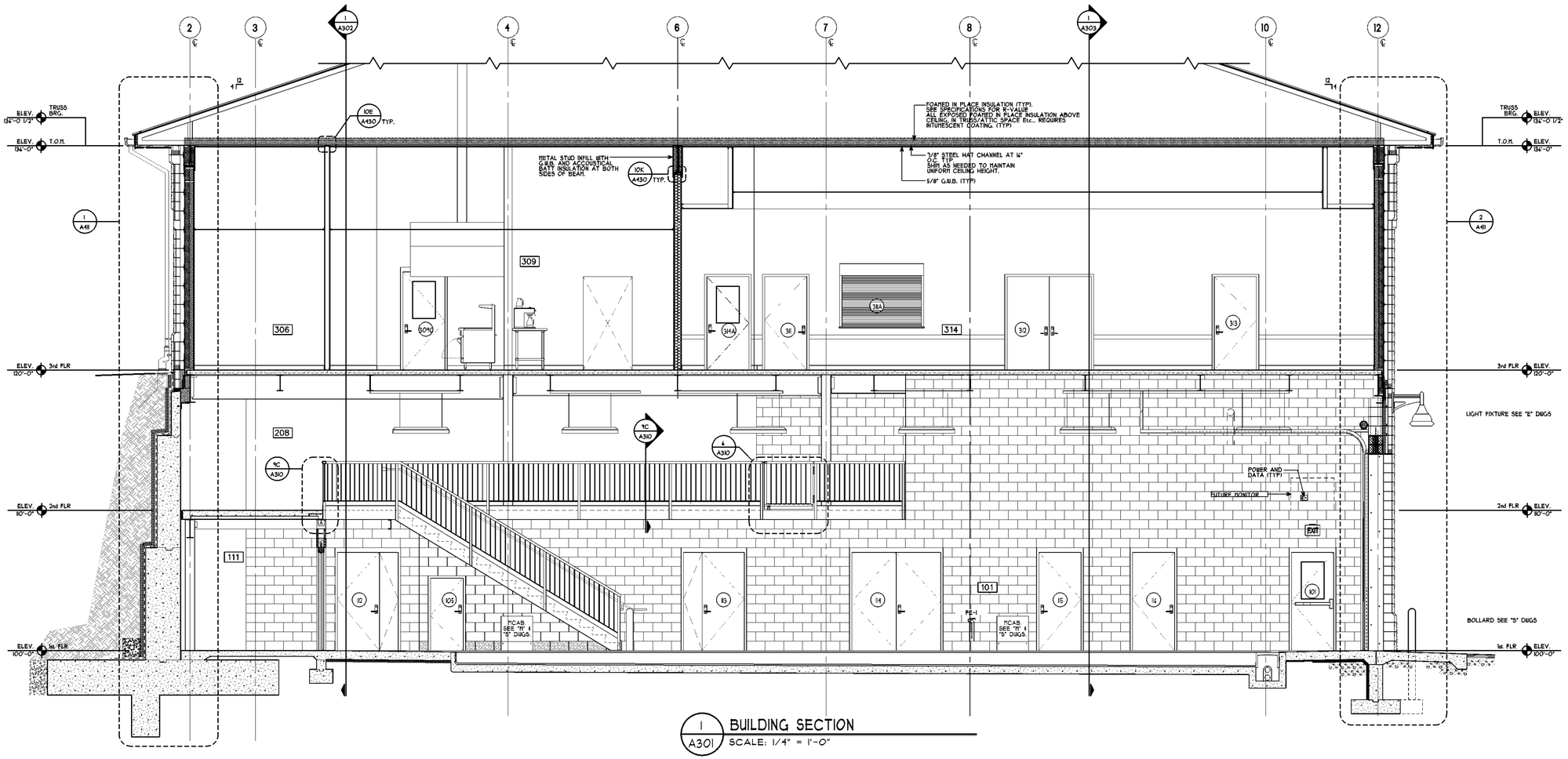
	DATE	DESCRIPTION
7		
6		
5		
4		
3		
2		
1		

BUILDING SECTIONS AND DETAILS

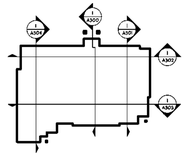
SCALE: AS NOTED
DWG. BY: RAM,JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A300

PLOT TIME: 11:41 AM



1 A301 BUILDING SECTION
SCALE: 1/4" = 1'-0"



DWG ID#: S:\V Drive\Putnam Valley\PV_A300-301-302

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

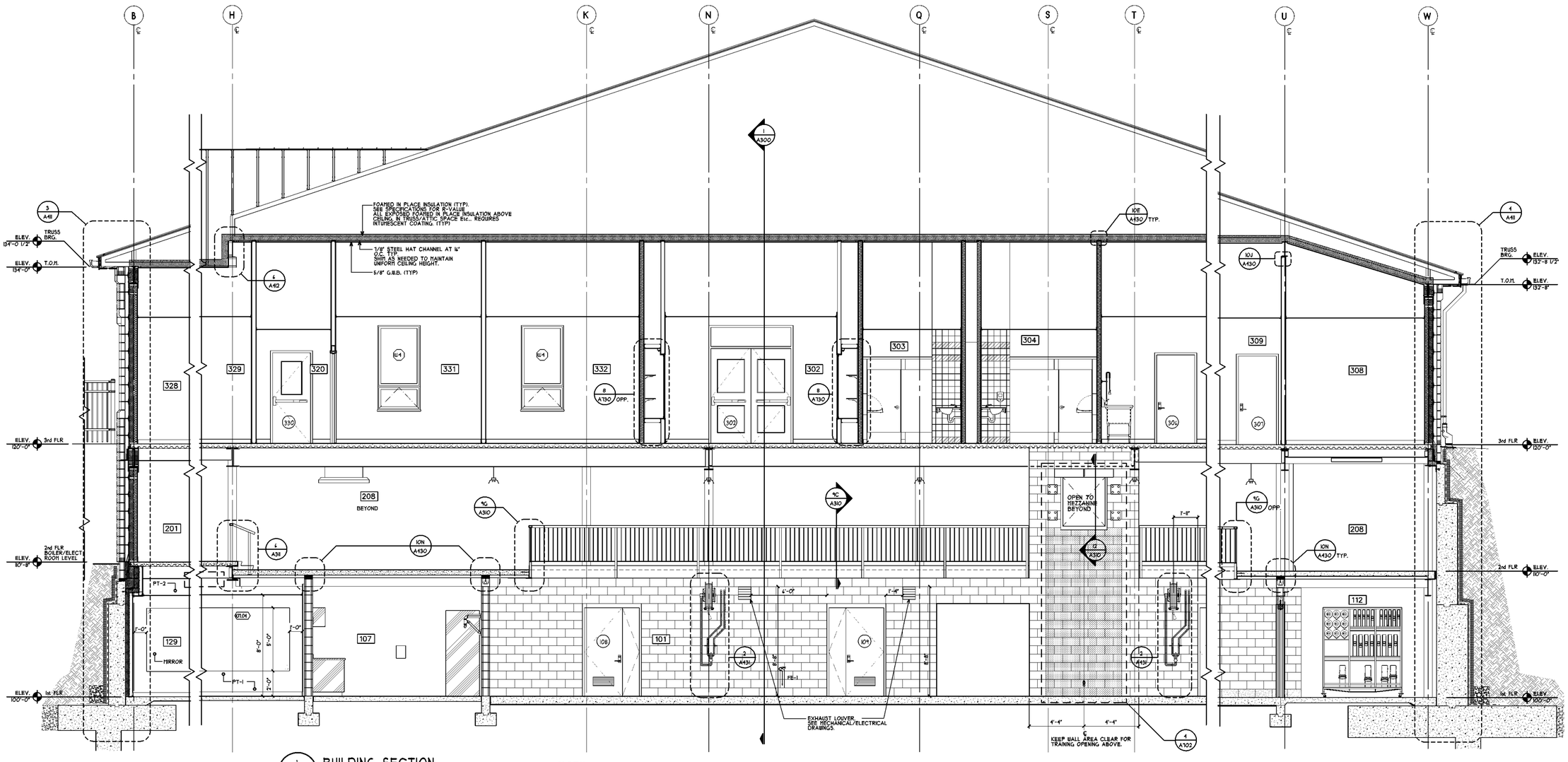
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

BUILDING SECTIONS AND DETAILS

SCALE: AS NOTED
DWG. BY: RAM, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A301

PLOT TIME: 11:50 AM



1 / A302 BUILDING SECTION
SCALE: 1/4" = 1'-0"

NOTE:
FOR PAINT FINISHES IN APPARATUS BAY, SEE 3/A802

DWG ID#: S:\N Drive\Putnam Valley\PV_A300-301-302

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

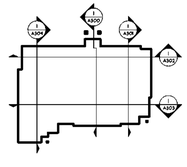
OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

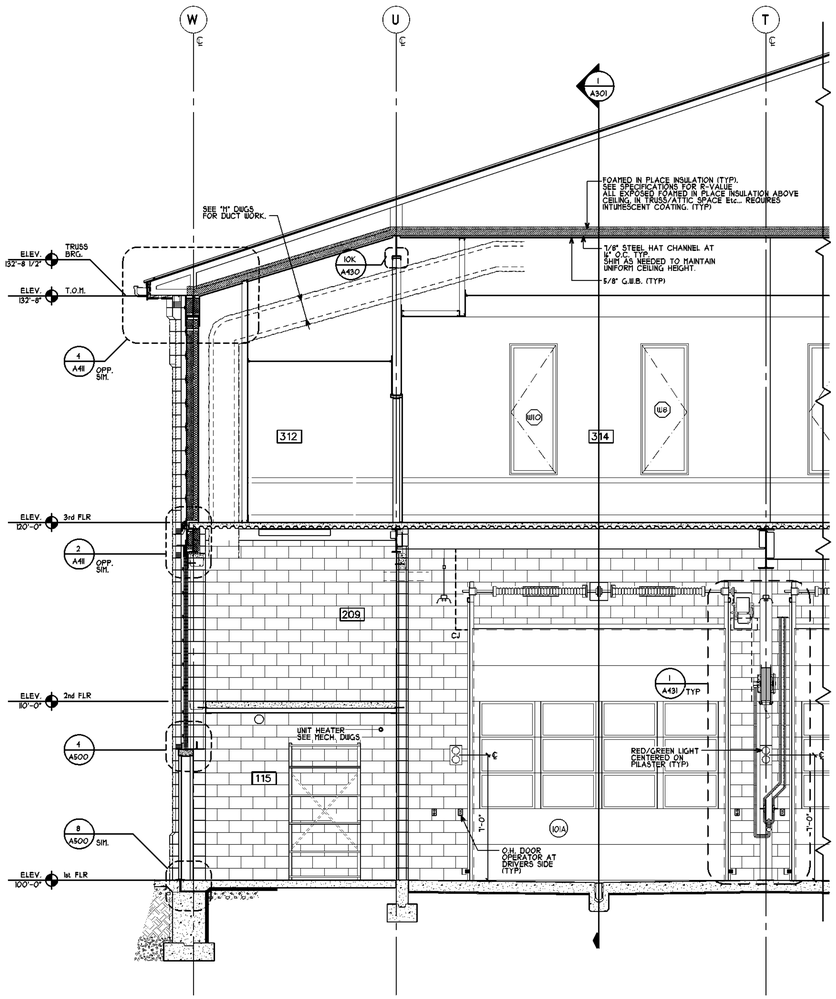
BUILDING SECTIONS AND DETAILS

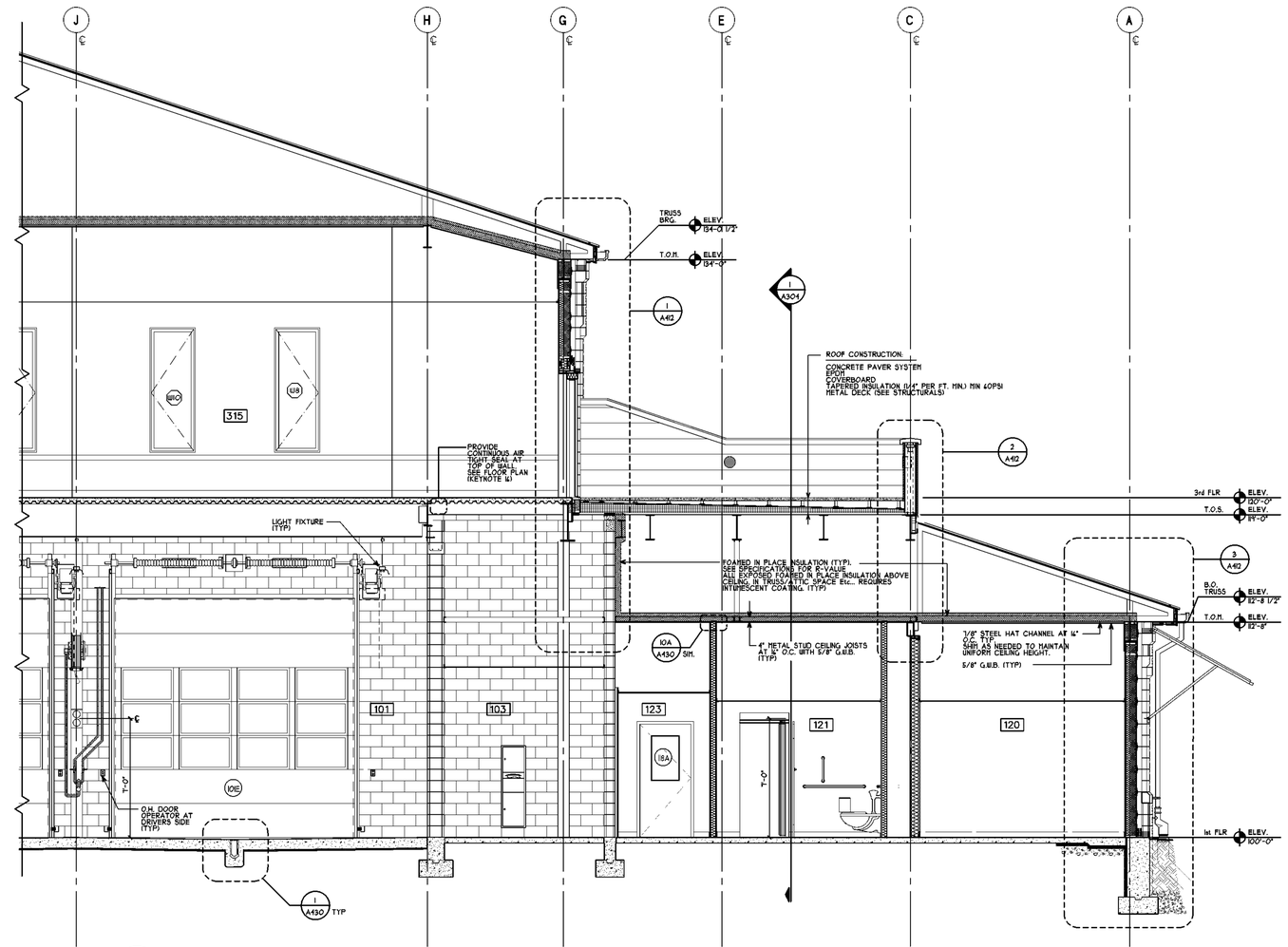
SCALE: AS NOTED
DWG. BY: RAM, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS



A302

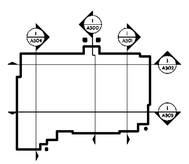
PLOT TIME: 11:51 AM





1 A303 BUILDING SECTION
SCALE: 1/4" = 1'-0"

NOTE:
FOR PAINT FINISHES IN APPARATUS BAY, SEE 3/A802



DWG ID#: S:\V Drive\Putnam Valley\PV_A303-304-305

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4640 FAX (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

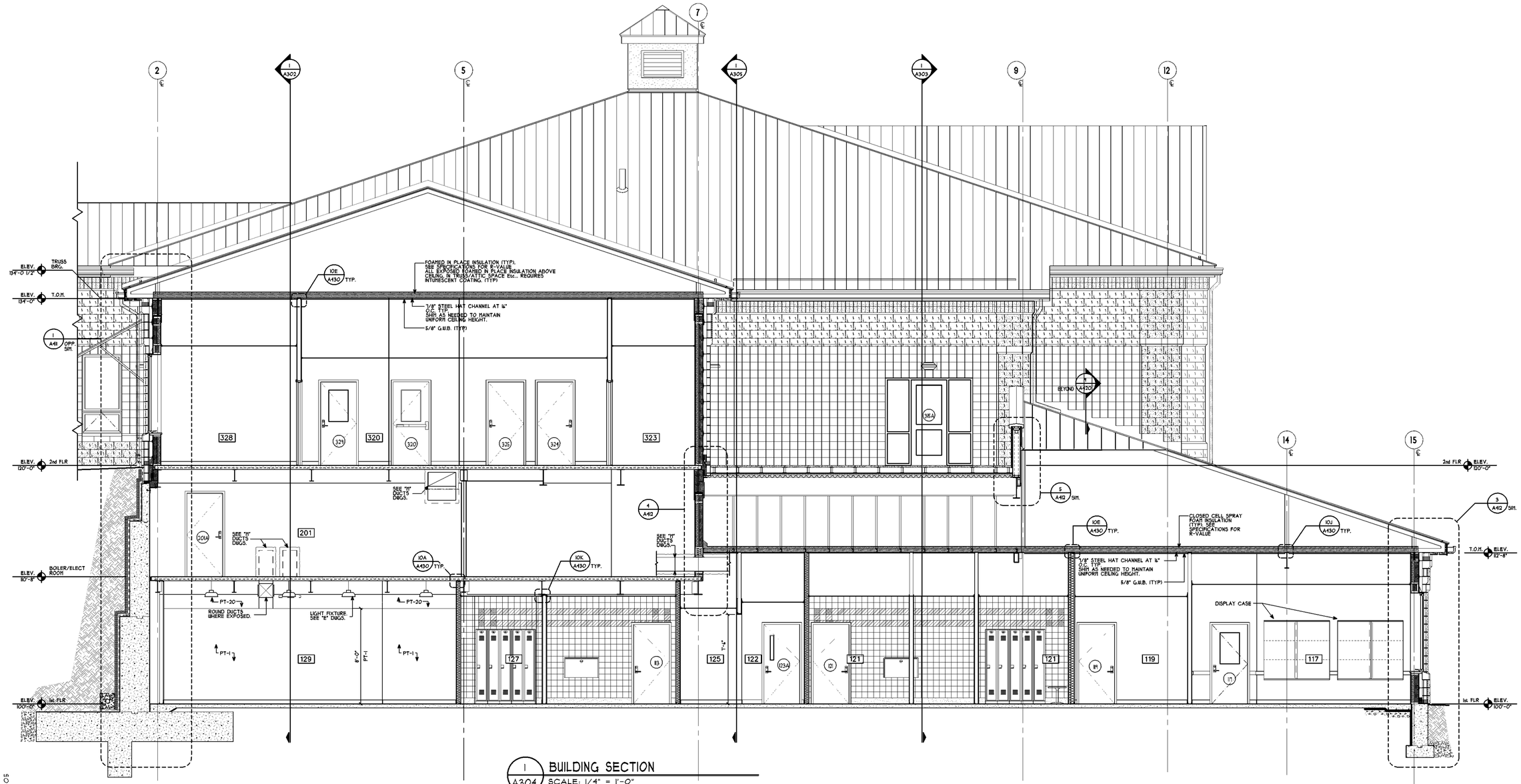
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

BUILDING SECTIONS AND DETAILS

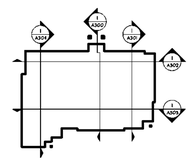
SCALE: AS NOTED
DWG. BY: RAM, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A303

PLOT TIME: 11:53 AM



1 A304 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"



DWG ID#: S:\J Drive\Putnam Valley\PV_A303-304-305

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-7490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

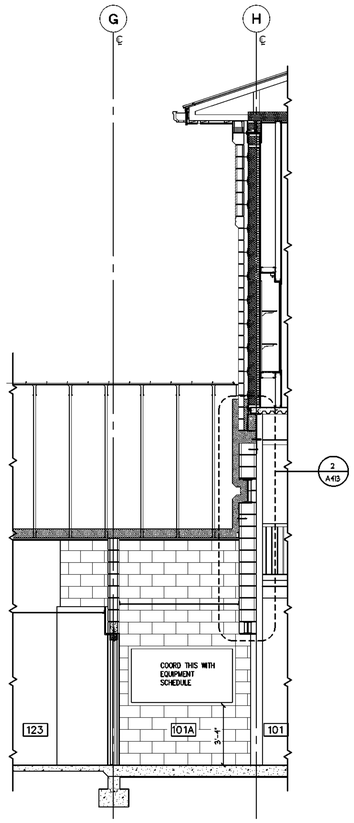
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

BUILDING SECTIONS AND DETAILS

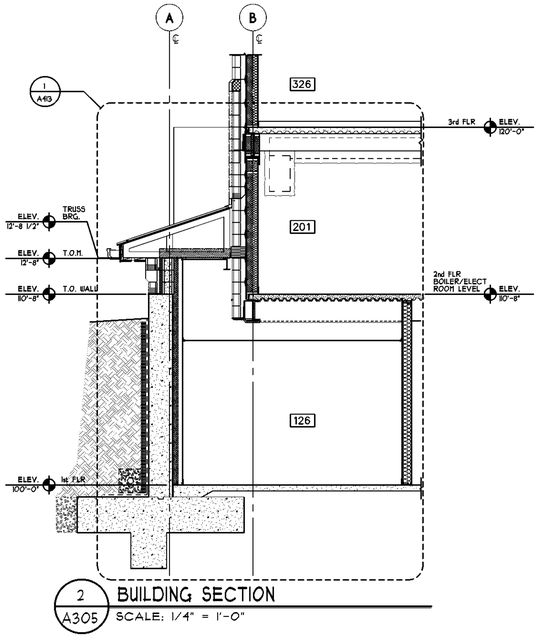
SCALE: AS NOTED
DWG. BY: RAM, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A304

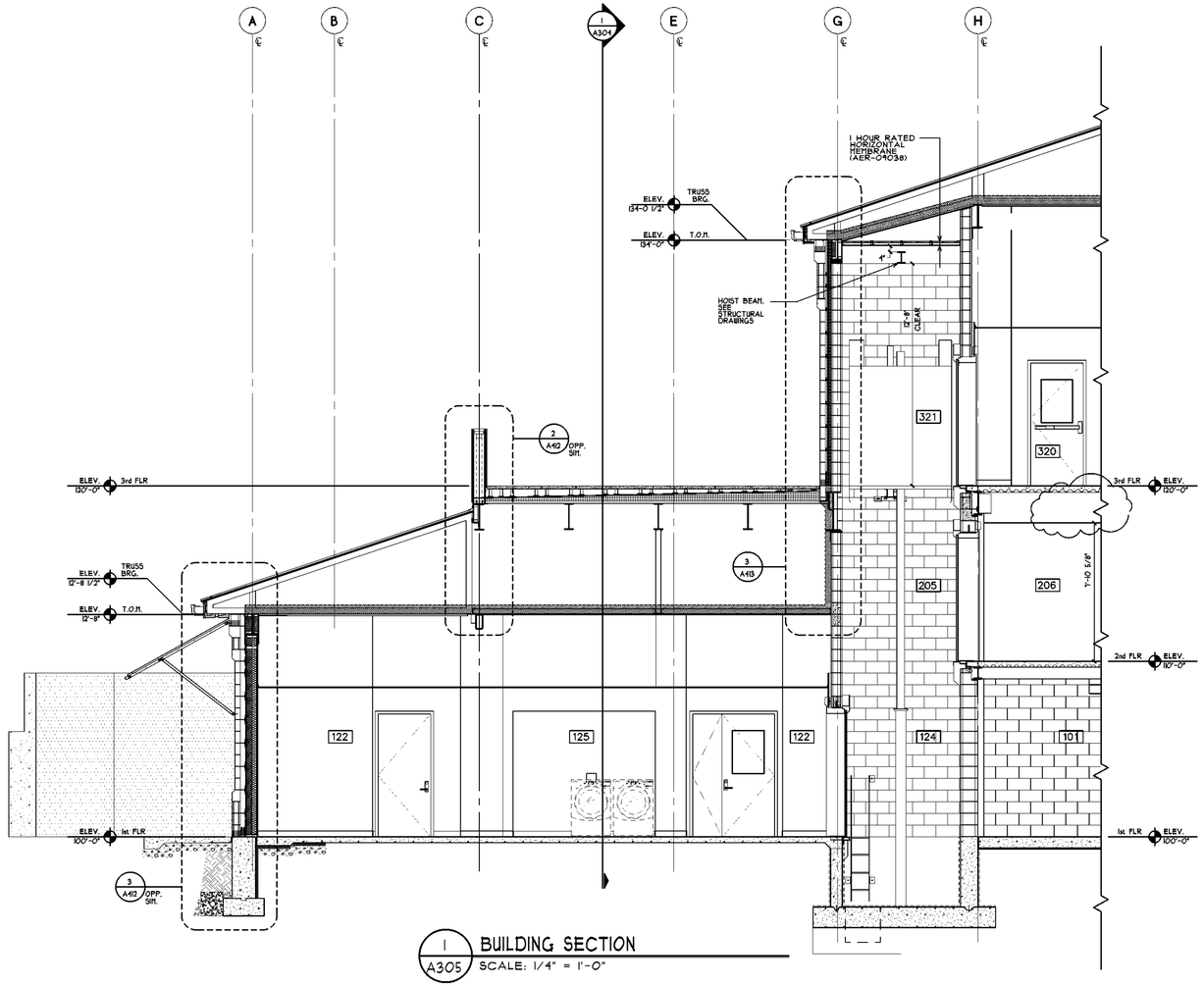
PLOT TIME: 11:54 AM



3 A305 BUILDING SECTION
SCALE: 1/4" = 1'-0"



2 A305 BUILDING SECTION
SCALE: 1/4" = 1'-0"



1 A305 BUILDING SECTION
SCALE: 1/4" = 1'-0"

DWG ID#: S:\JDrive\Putnam Valley\FV_A303-304-305

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4640 FAX (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-4944 FAX (518) 584-4955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

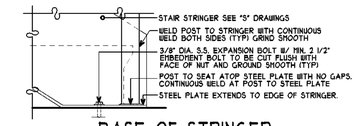
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

BUILDING SECTIONS AND DETAILS

SCALE: AS NOTED
DWG. BY: RAM, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

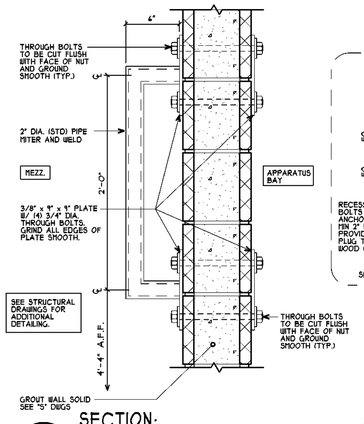
A305

PLOT TIME: 11:56 AM



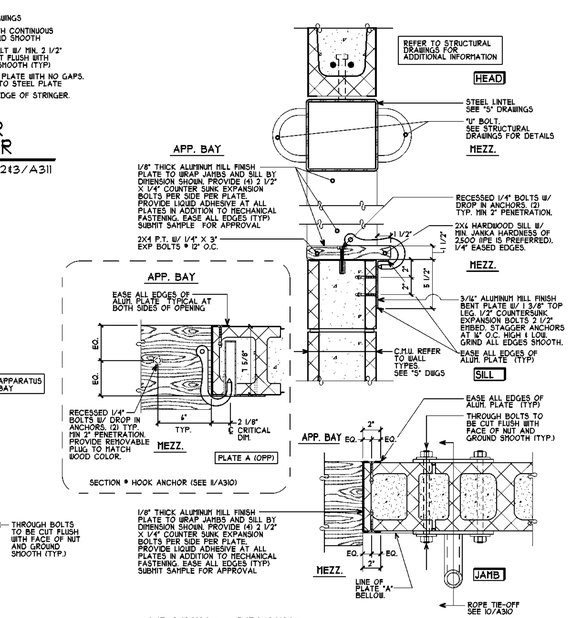
14 / A310 BASE OF STRINGER @ MEZZANINE STAIR

SCALE: 1-1/2" = 1'-0" 2&3/A311



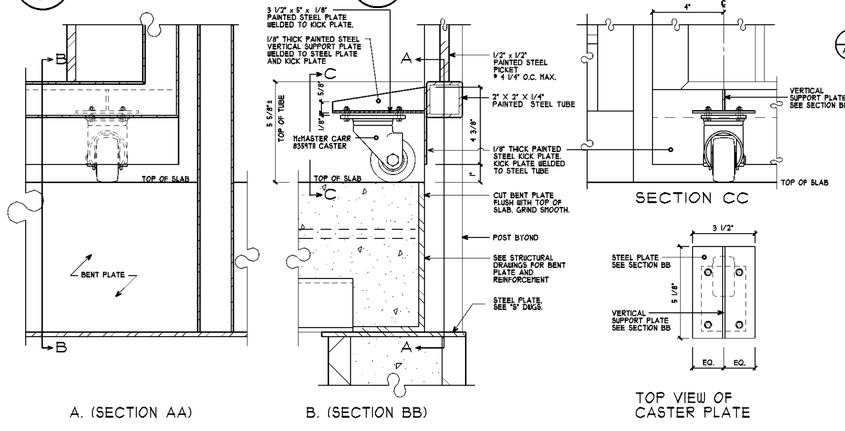
13 / A310 SECTION: ROPE TIE-OFF FRAME

SCALE: 1-1/2" = 1'-0" 9/A311



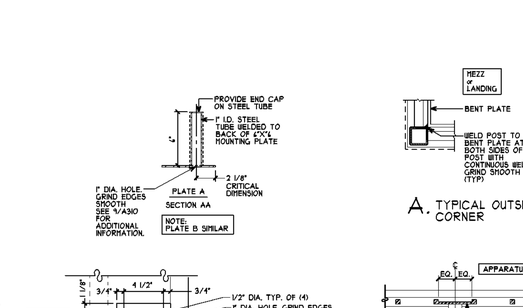
12 / A310 TRAINING OPENING AT MEZZANINE

SCALE: 1-1/2" = 1'-0" 9/A311



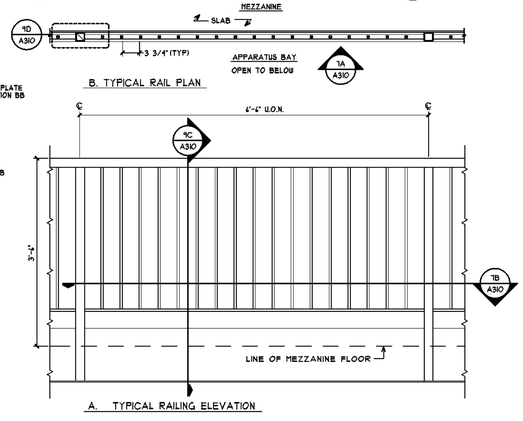
8 / A310 CASTER/ KICK PLATE @ GATE

SCALE: 3" = 1'-0" 6/A310



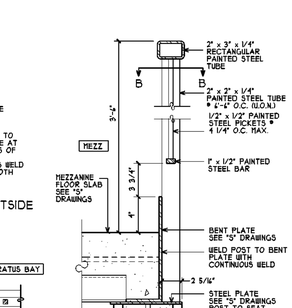
11 / A310 ENLARGED DETAIL

SCALE: 1 1/2" = 1'-0" 9/A311, 12/A310



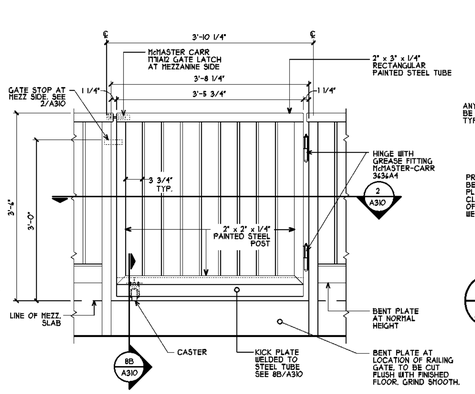
7 / A310 TYPICAL RAILING AT MEZZANINE

SCALE: 3/4" = 1'-0" 1/A101



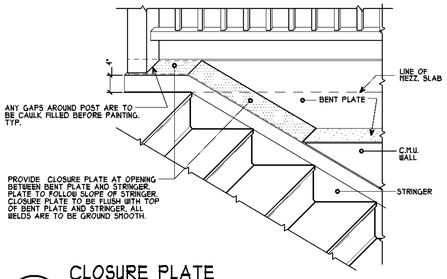
9 / A310 RAILING DETAILS AT MEZZANINE & MEZZANINE STAIR

SCALE: 1-1/2" = 1'-0"



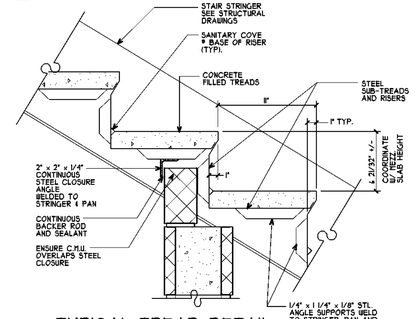
6 / A310 OPERABLE GATE ELEVATION

SCALE: 3/4" = 1'-0" 1/A101



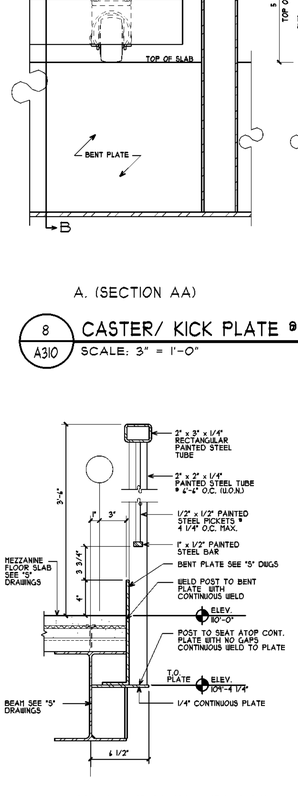
5 / A310 CLOSURE PLATE AT TOP OF STAIR

SCALE: N.T.S. 4/A310



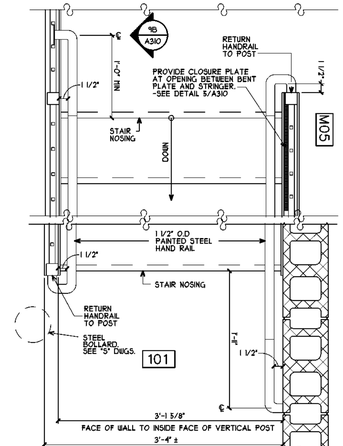
1 / A310 TYPICAL TREAD DETAIL @ MEZZ STAIRS

SCALE: 1 1/2" = 1'-0" 8/A311



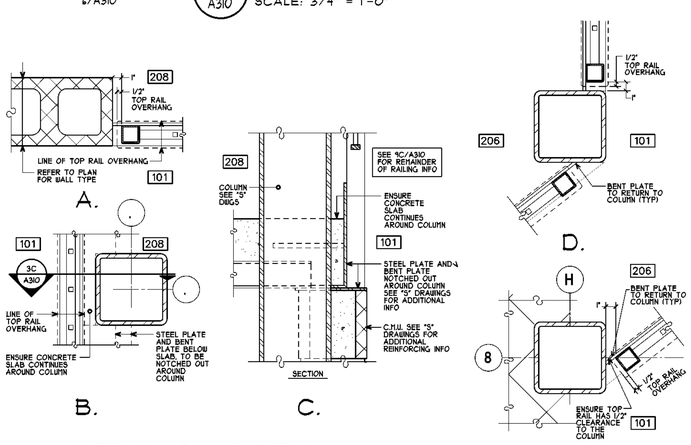
4A / A310 MEZZ. RAILING DETAIL AT RM #206

SCALE: 1 1/2" = 1'-0" 1/A101



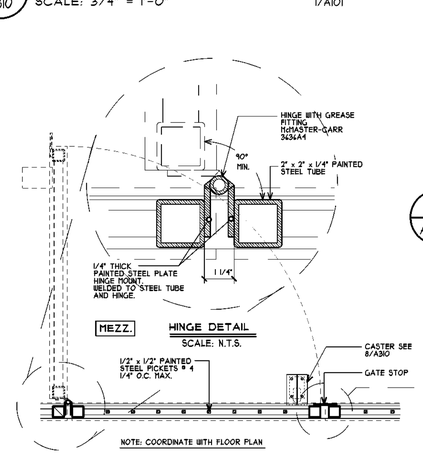
4 / A310 PLAN DETAIL @ MEZZ STAIR

SCALE: 1" = 1'-0" 2 & 3/A311



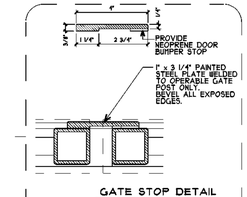
3 / A310 MEZZANINE RAILING DETAIL AT WALL AND COLUMN

SCALE: 1 1/2" = 1'-0" 1/A101



2 / A310 OPERABLE GATE PLAN

SCALE: 1" = 1'-0" 6/A310



MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1439

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

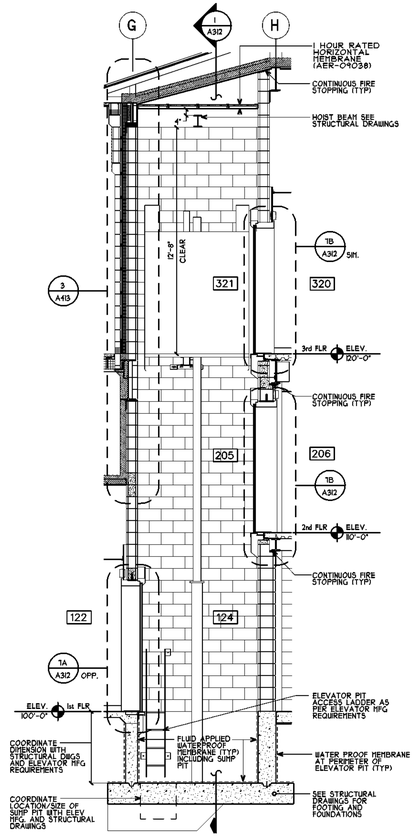
MEZZ. STAIR, LADDER EVOLUTION OPENING AND DETAILS

SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

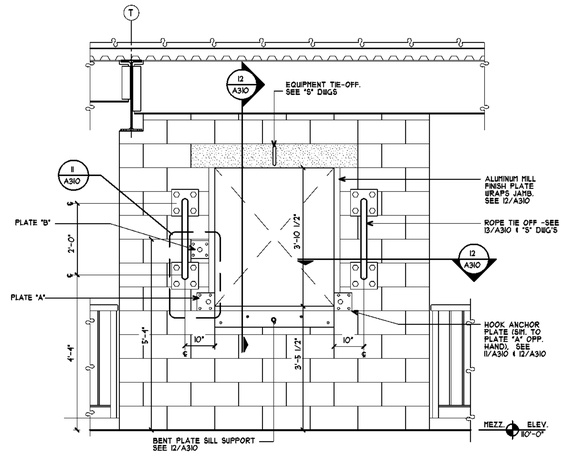
A310

PLOT TIME: 11:59 AM

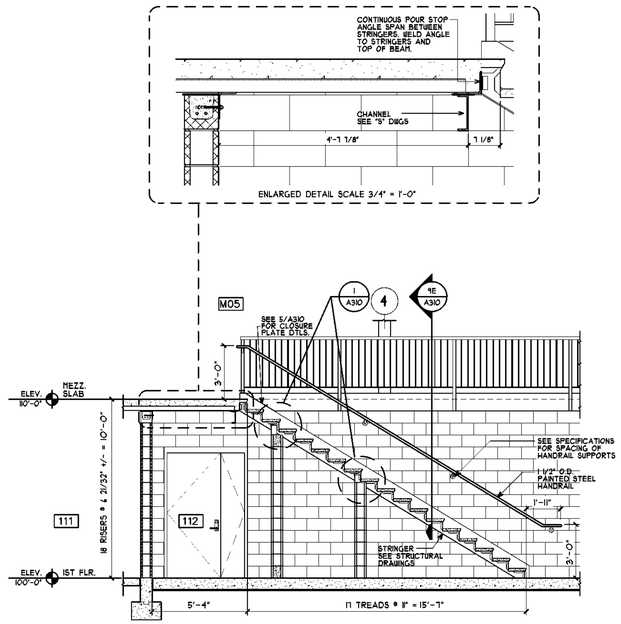
DWG ID#: S:\NJ Drive\Putnam Valley\PV_A310 Stair



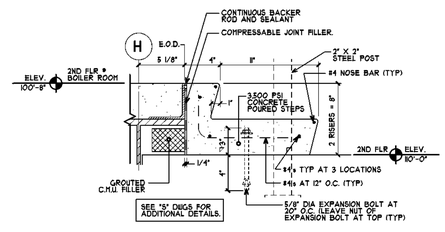
10 A311 ELEVATOR SECTION
SCALE: 1 1/2" = 1'-0" 1/A305



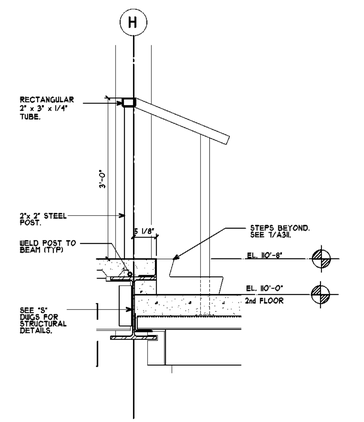
9 A311 LADDER EVOLUTION TRAINING OPENING
SCALE: 1/2" = 1'-0" 1/A101



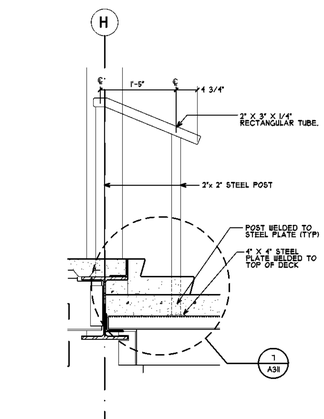
8 A311 SECTION THROUGH MEZZANINE STAIR (STI)
SCALE: 1/4" = 1'-0" 2/A311



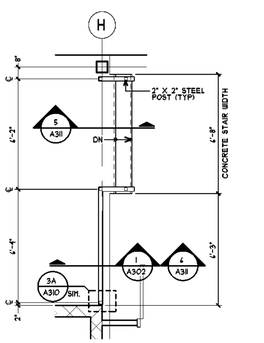
7 A311 STAIR TREAD (ST4)
SCALE: 1 1/2" = 1'-0" 5/A311



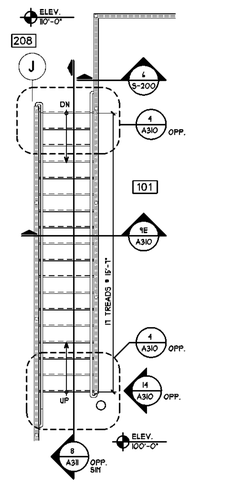
6 A311 STAIR RAIL SECTION (ST4)
SCALE: 3/4" = 1'-0" 4/A311



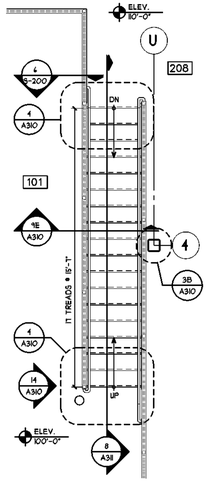
5 A311 STAIR SECTION (ST4)
SCALE: 3/4" = 1'-0" 4/A311



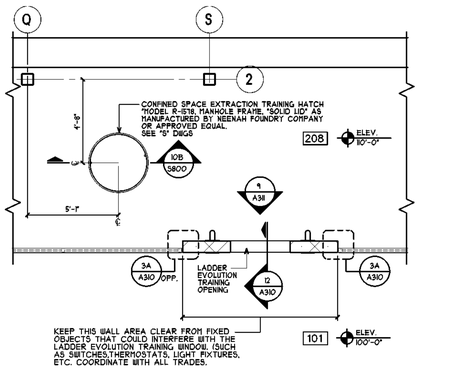
4 A311 STAIR PLAN (ST4)
SCALE: 1/4" = 1'-0" 1/A101



3 A311 STAIR PLAN (ST2)
SCALE: 1/4" = 1'-0" 1/A101



2 A311 STAIR PLAN (STI)
SCALE: 1/4" = 1'-0" 1/A101



1 A311 TRAINING AREA FLOOR PLAN
SCALE: 1/4" = 1'-0" 1/A101

DWG ID#: S:\J Drive\Putnam Valley\FV_A310 Stair

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

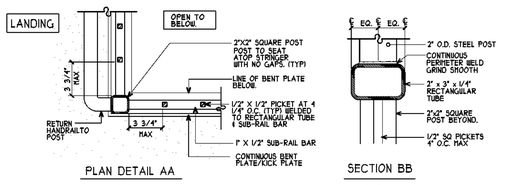
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MEZZANINE STAIR PLAN, LADDER EVOLUTION OPENING PLAN SECTIONS AND DETAILS

SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A311

PLOT TIME: 12:00 PM

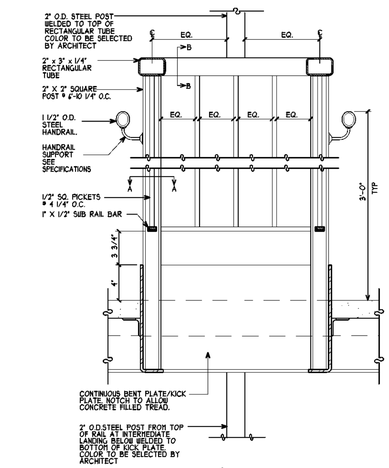


PLAN DETAIL AA

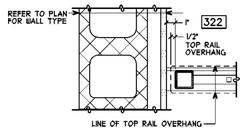
N.T.S.

SECTION BB

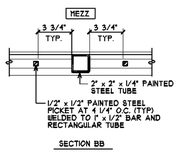
N.T.S.



A.



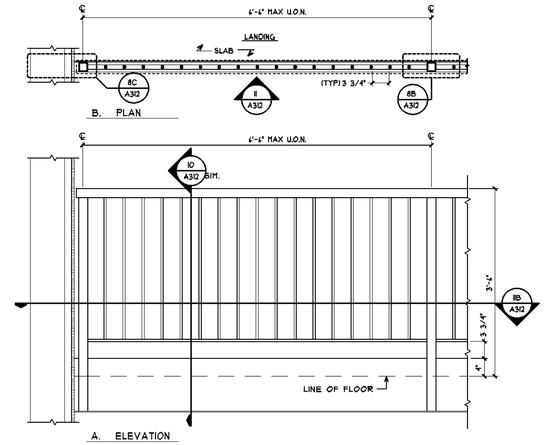
C.



B.

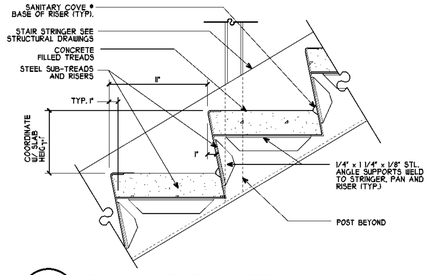
8 A312 — RAILING DETAILS AT MAIN STAIRS

SCALE: 1-1/2" = 1'-0"



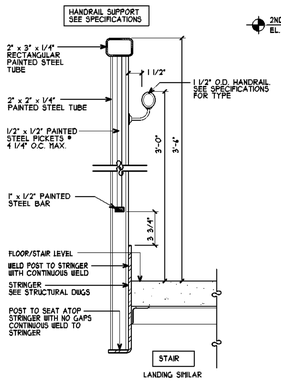
11 A312 — TYPICAL RAILING ELEVATION/PLAN AT MAIN STAIRS

SCALE: 1" = 1'-0"



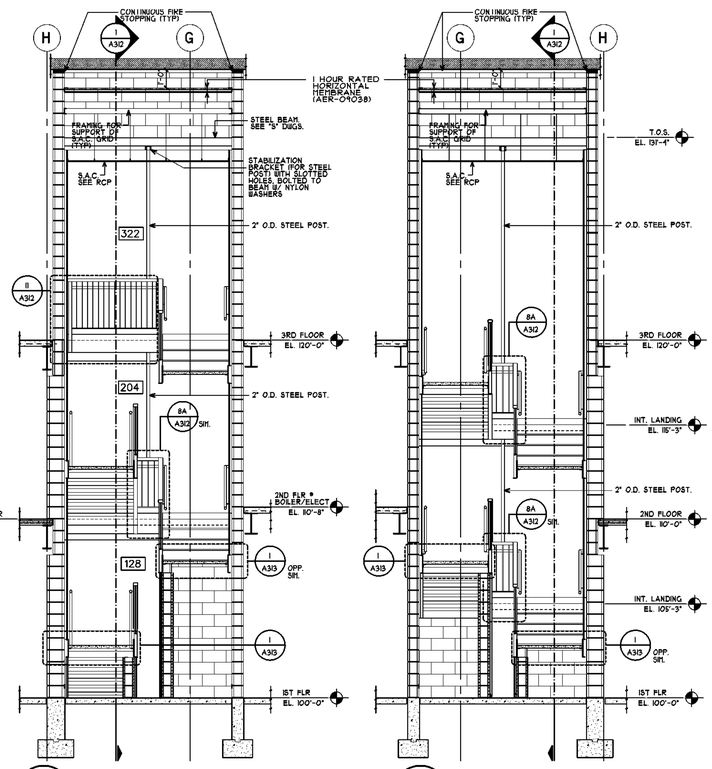
9 A312 — TYPICAL TREAD DETAIL

SCALE: 1 1/2" = 1'-0"



10 A312 — TYPICAL RAILING DETAIL

SCALE: 1 1/2" = 1'-0"

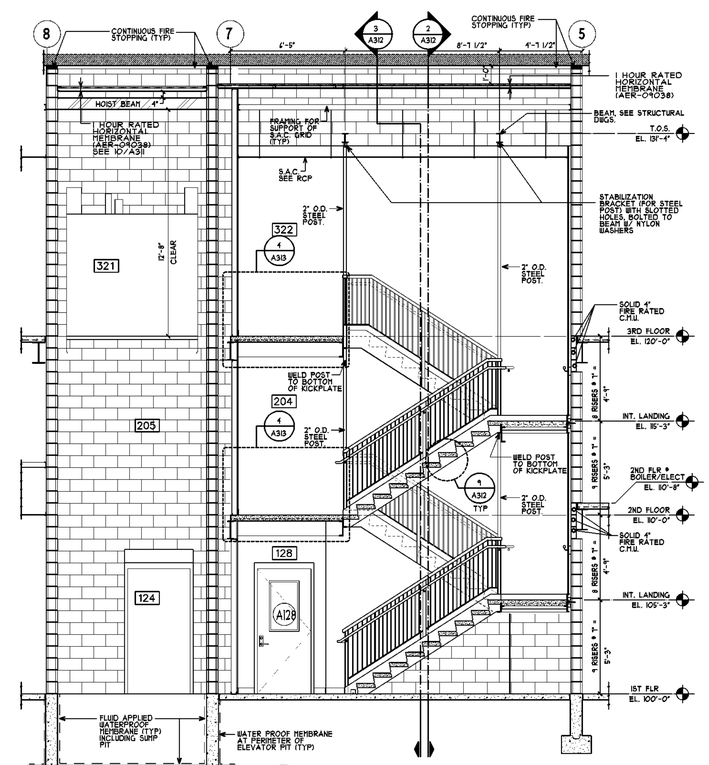


3 A312 — SECTION: STAIR B

SCALE: 1/4" = 1'-0"

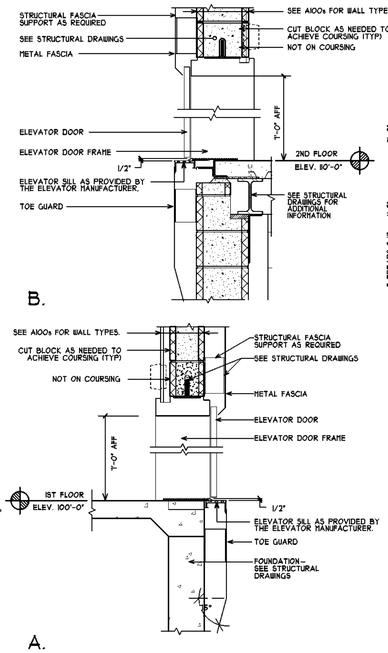
2 A312 — SECTION: STAIR B

SCALE: 1/4" = 1'-0"



1 A312 — SECTION: STAIR B

SCALE: 1/4" = 1'-0"



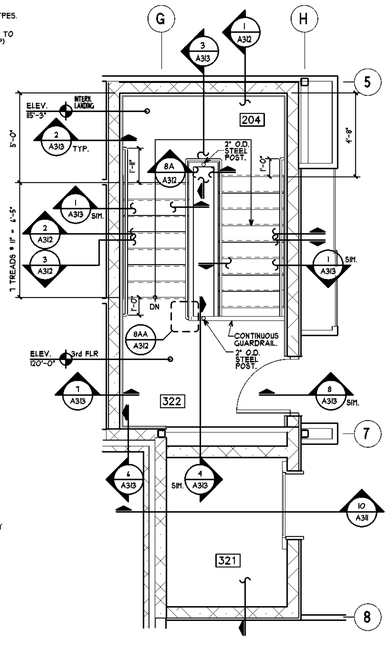
B.

A.

7 A312 — ELEVATOR TYPICAL DETAILS

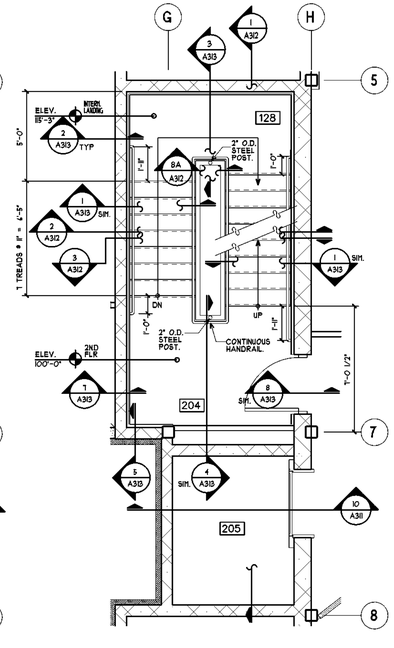
SCALE: 3/4" = 1'-0"

10/A311



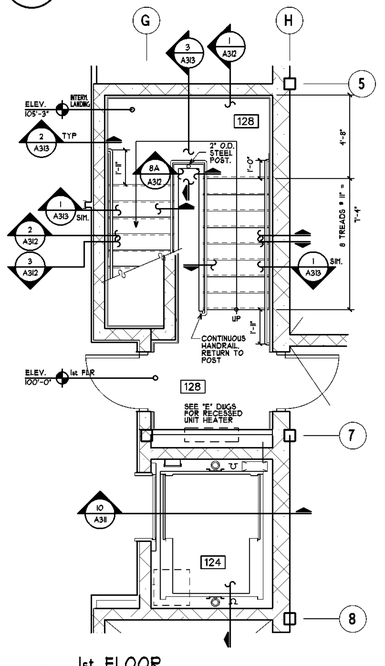
6 A312 — 3rd FLOOR MAIN STAIRS & ELEVATOR PLAN

SCALE: 1/4" = 1'-0"



5 A312 — 2nd FLOOR MAIN STAIRS & ELEVATOR PLAN

SCALE: 1/4" = 1'-0"



4 A312 — 1st FLOOR MAIN STAIRS & ELEVATOR PLAN

SCALE: 1/4" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9410 FAX (845) 225-9177

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

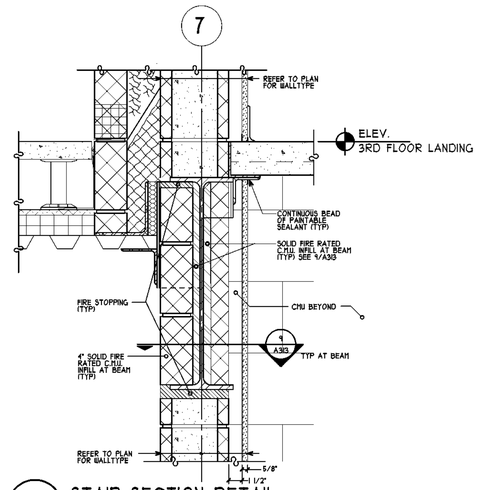
MAIN STAIR DETAILS

SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

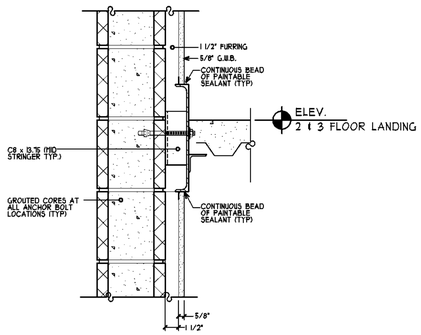
A312

PLOT TIME: 12:05 PM

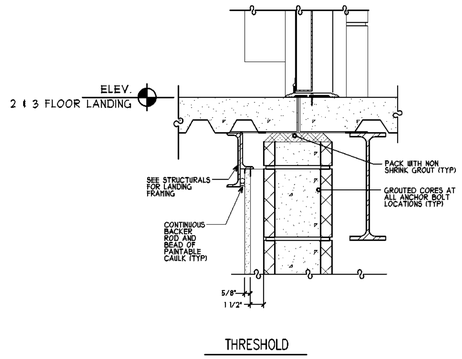
DWG ID#: S:\VJ Drive\Putnam Valley\PV_A310 Stair



6 A313 **STAIR SECTION DETAIL**
SCALE: 1 1/2" = 1'-0" 6/A312

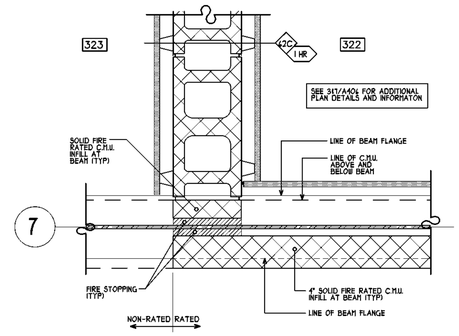


7 A313 **STAIR SECTION DETAIL**
SCALE: 1 1/2" = 1'-0" 5&6/A312

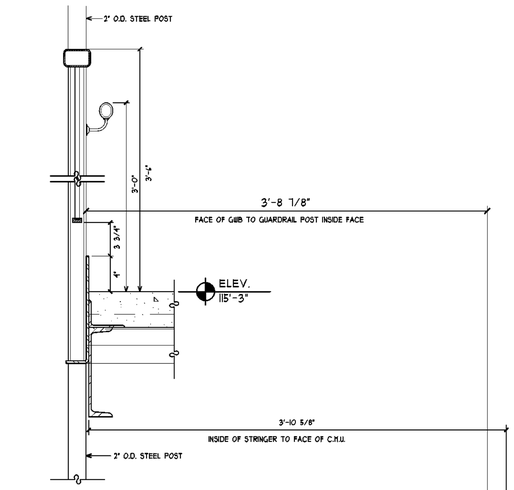


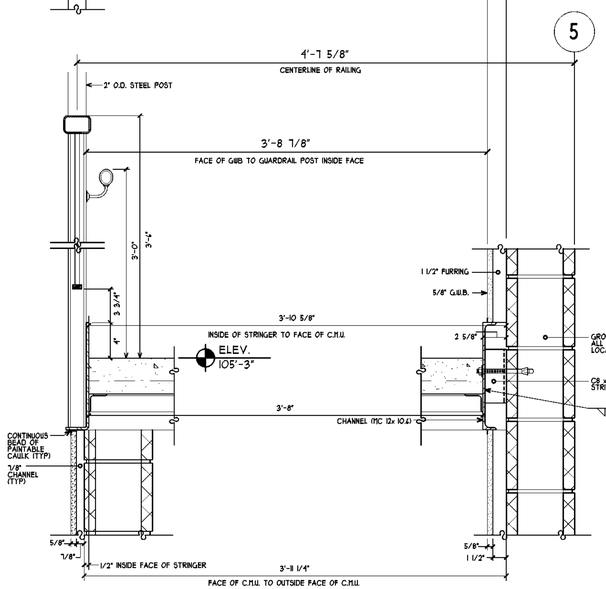
THRESHOLD

8 A313 **STAIR SECTION DETAIL**
SCALE: 1 1/2" = 1'-0" 5&6/A312

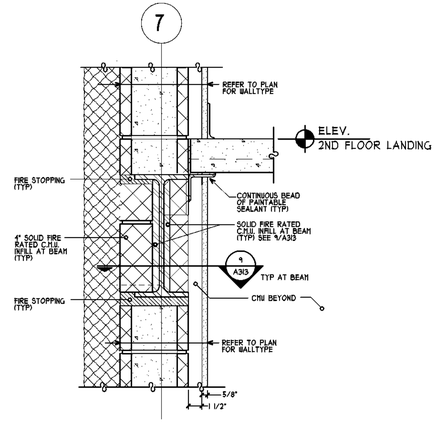


9 A313 **STAIR SECTION DETAIL**
SCALE: 1 1/2" = 1'-0" 5&6/A313

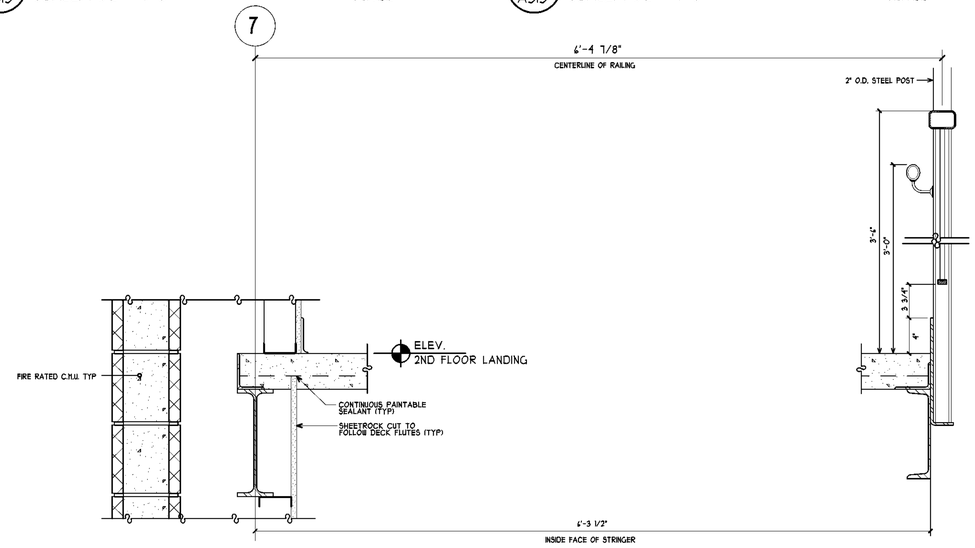




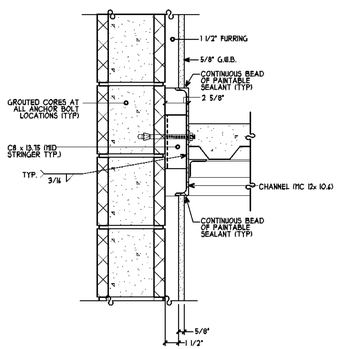
3 A313 **STAIR SECTION DETAIL**
SCALE: 1 1/2" = 1'-0" 4,5&6/A312



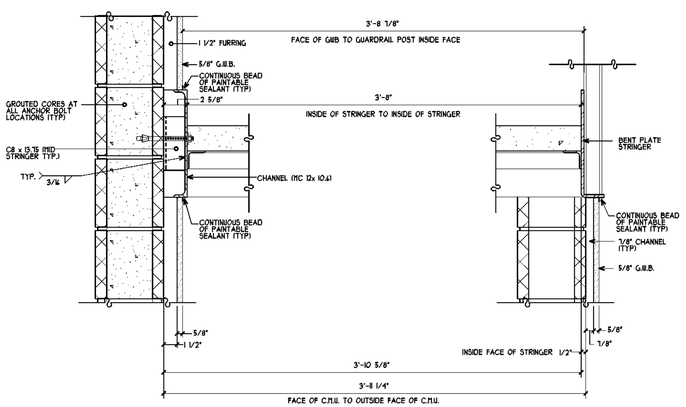
5 A313 **STAIR SECTION DETAIL**
SCALE: 1 1/2" = 1'-0" 5/A312



4 A313 **STAIR SECTION DETAIL**
SCALE: 1 1/2" = 1'-0" 5&6/A312



2 A313 **STAIR SECTION DETAIL**
SCALE: 1 1/2" = 1'-0" 4,5&6/A312



1 A313 **STAIR SECTION DETAIL**
SCALE: 1 1/2" = 1'-0" 4/A312

DWG ID#: S:\J Drive\Putnam Valley\PV_A313 Stair

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2980
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-7490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

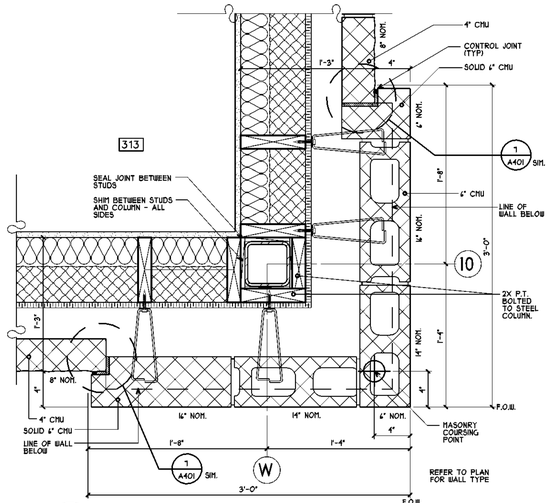
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MAIN STAIR PLANS SECTION DETAILS

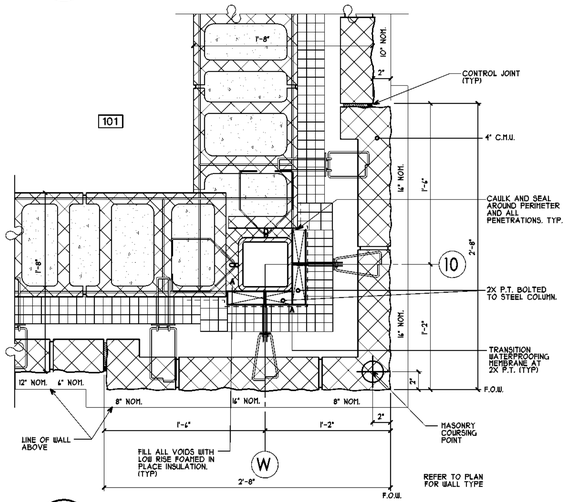
SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A313

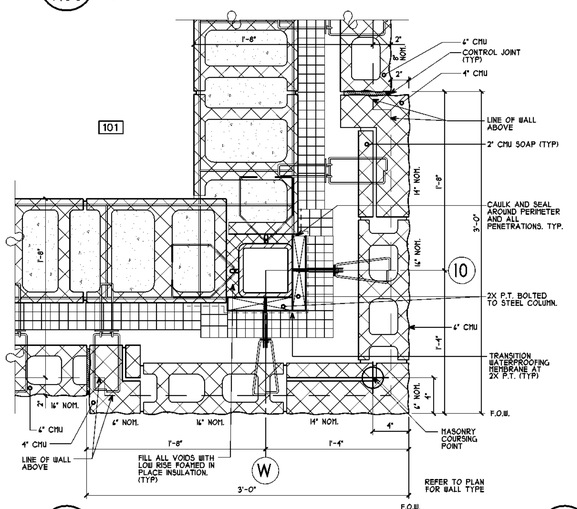
PLOT TIME: 12:09 PM



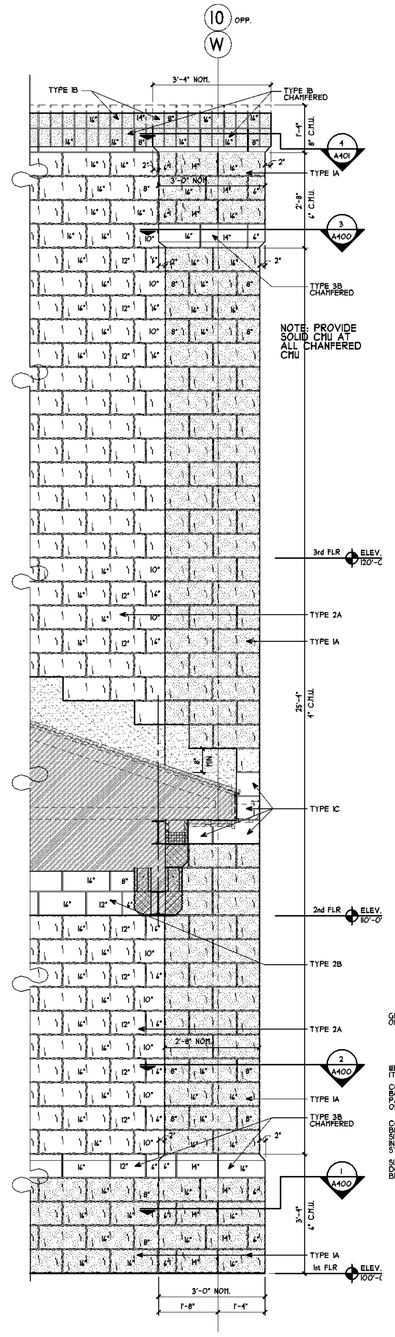
3 A400 **PLAN DETAIL** LEVEL 3
SCALE: 1 1/2" = 1'-0" 4/A400, 6/A404



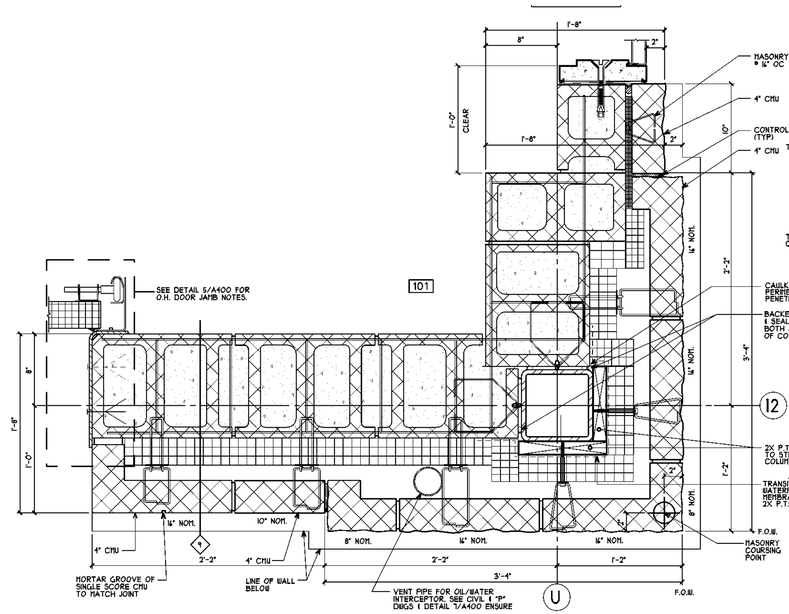
2 A400 **PLAN DETAIL** LEVEL 2
SCALE: 1 1/2" = 1'-0" 4/A400



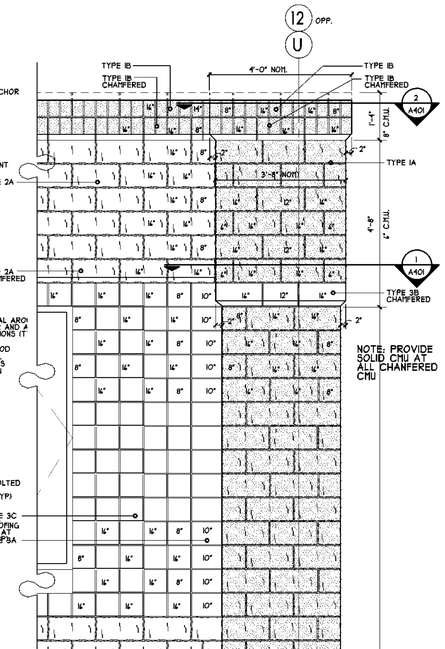
1 A400 **PLAN DETAIL** LEVEL 1
SCALE: 1 1/2" = 1'-0" 4/A400, 6/A404



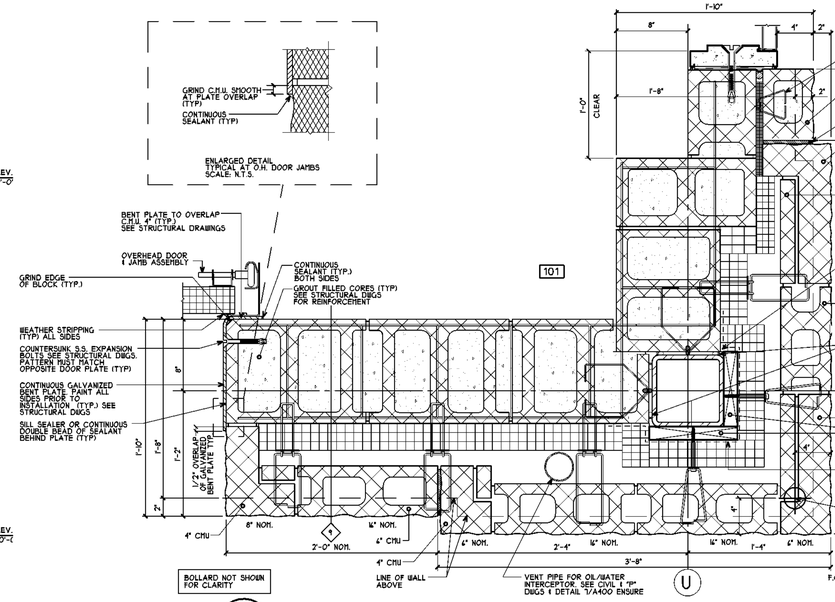
4 A400 **W-10 ELEVATION**
SCALE: 1/2" = 1'-0" 1/A100, 1/A200



6 A400 **PLAN DETAIL** LEVEL 2
SCALE: 1 1/2" = 1'-0" 7/A400



7 A400 **U-12 ELEVATION**
SCALE: 1/2" = 1'-0" 1/A100, 1/A200



5 A400 **PLAN DETAIL** LEVEL 1
SCALE: 1 1/2" = 1'-0" 7/A400

GENERAL NOTES:
1. THE NUMBERS ON THE ELEVATIONS ARE THE NOMINAL WIDTHS OF THE CMU UNITS. CMU NOMINAL SIZES THAT ARE NOT NORMALLY MANUFACTURED MUST BE CUT TO SIZE. ALL NOMINAL SIZES ARE EXPOSED FACE SIZE.

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4640 FAX (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-4944 FAX (518) 584-4955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1439

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

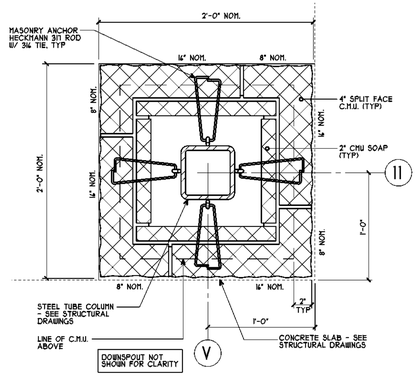
PLAN DETAILS & ELEVATIONS

SCALE: AS NOTED
DWG. BY: JDA,JDC
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

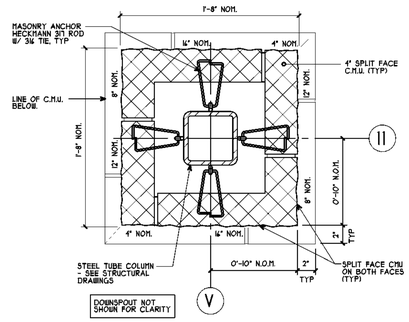
A400

PLOT TIME: 1:24 PM

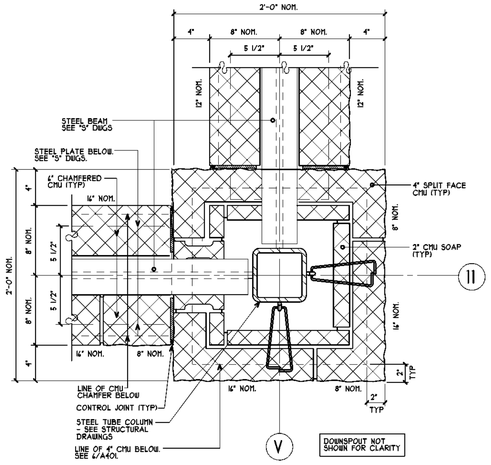
DWG ID#: S:\J Drive\Putnam Valley\PV_A400 Plan



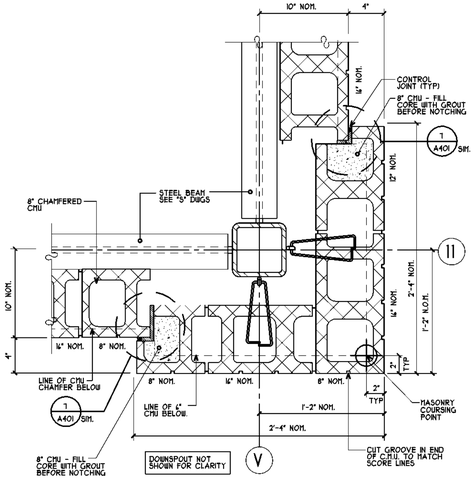
3 / A401 PLAN DETAIL — LEVEL 1
SCALE: 1 1/2" = 1'-0" — 10/A401



6 / A401 PLAN DETAIL — LEVEL 2
SCALE: 1 1/2" = 1'-0" — 10/A401

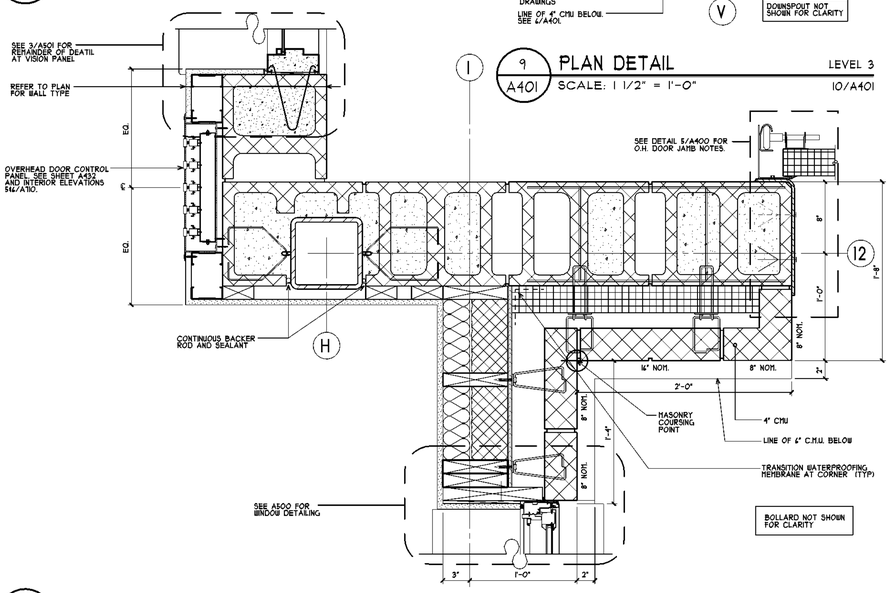


9 / A401 PLAN DETAIL — LEVEL 3
SCALE: 1 1/2" = 1'-0" — 10/A401

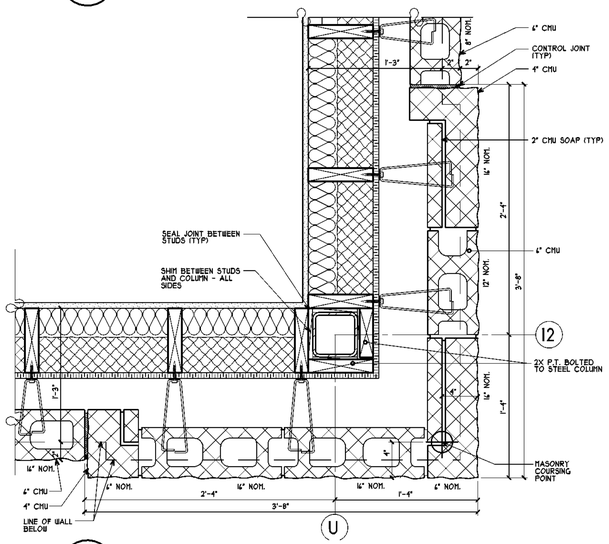


12 / A401 PLAN DETAIL — LEVEL 4
SCALE: 1 1/2" = 1'-0" — 10/A401

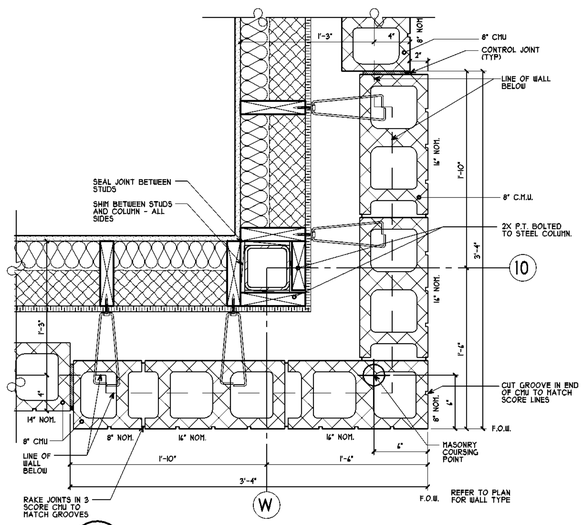
2 / A401 PLAN DETAIL — LEVEL 4
SCALE: 1 1/2" = 1'-0" — 7/A400



5 / A401 PLAN DETAIL — LEVEL 2
SCALE: 1 1/2" = 1'-0" — 4/A403

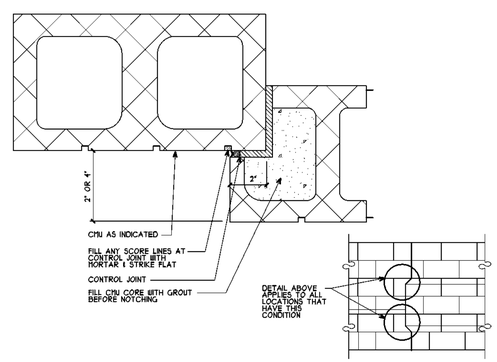


1 / A401 PLAN DETAIL — LEVEL 3
SCALE: 1 1/2" = 1'-0" — 7/A400



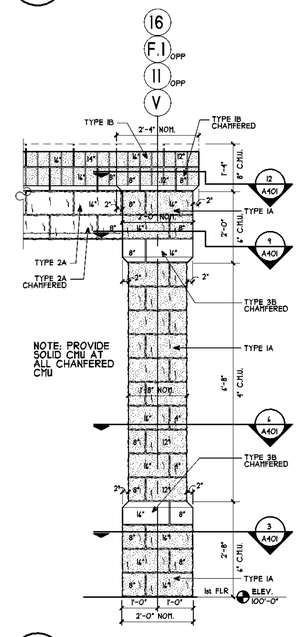
4 / A401 PLAN DETAIL — LEVEL 4
SCALE: 1 1/2" = 1'-0" — 4/A400

8 / A401 NOT USED
SCALE: 1 1/2" = 1'-0"



7 / A401 PLAN DETAIL
SCALE: 3" = 1'-0" — 3/A400 & 12/A401

11 / A401 NOT USED
SCALE: 1 1/2" = 1'-0"



10 / A401 V-II ELEVATION
SCALE: 1/2" = 1'-0" — A100, 1/A200

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9410 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

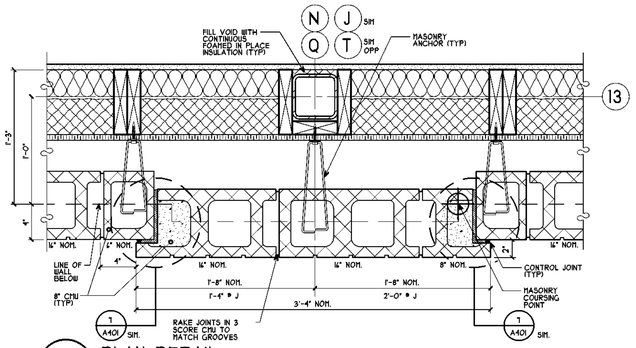
PLAN DETAILS & ELEVATIONS

SCALE: AS NOTED
DWG. BY:
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

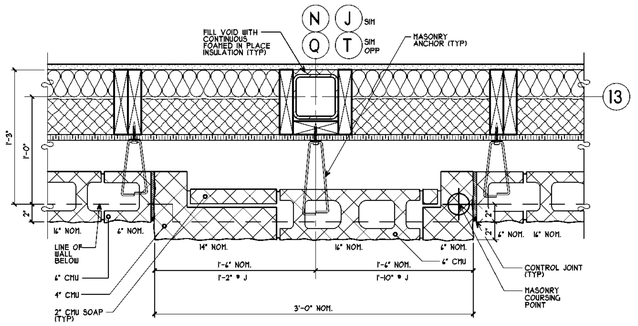
A401

PLOT TIME: 1:21 PM

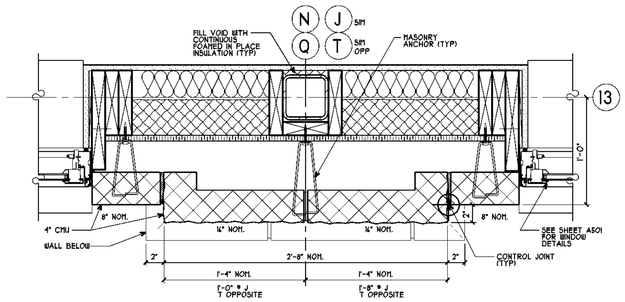
DWG ID#: S:\V Drive\Putnam Valley\PV_A400 Plan



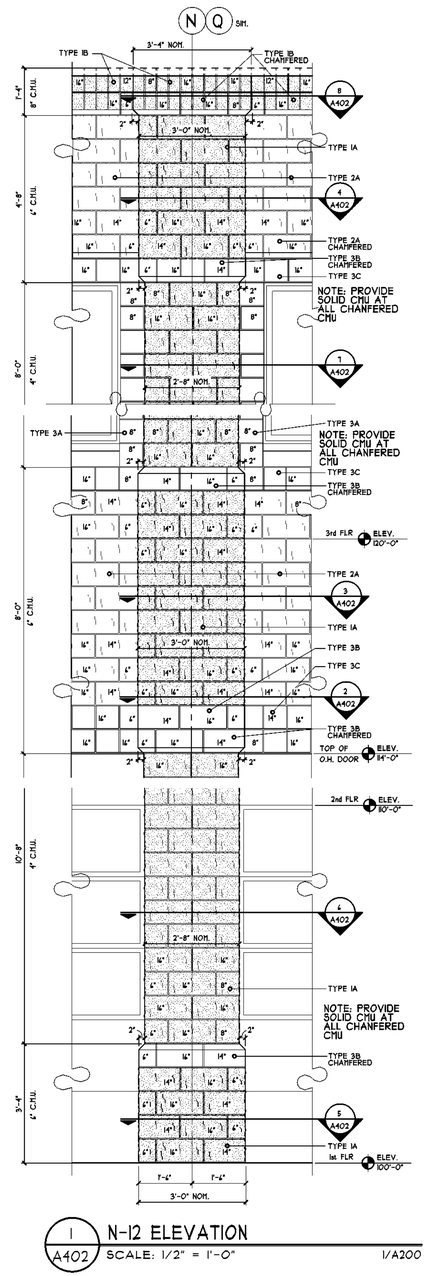
8 A402 PLAN DETAIL LEVEL 1
SCALE: 1 1/2" = 1'-0" 1/A402 & 1/A403



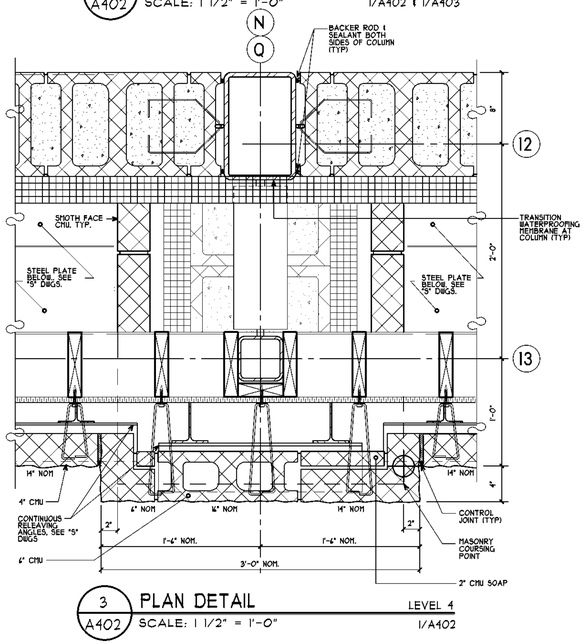
4 A402 PLAN DETAIL LEVEL 6
SCALE: 1 1/2" = 1'-0" 1/A402 & 1/A403



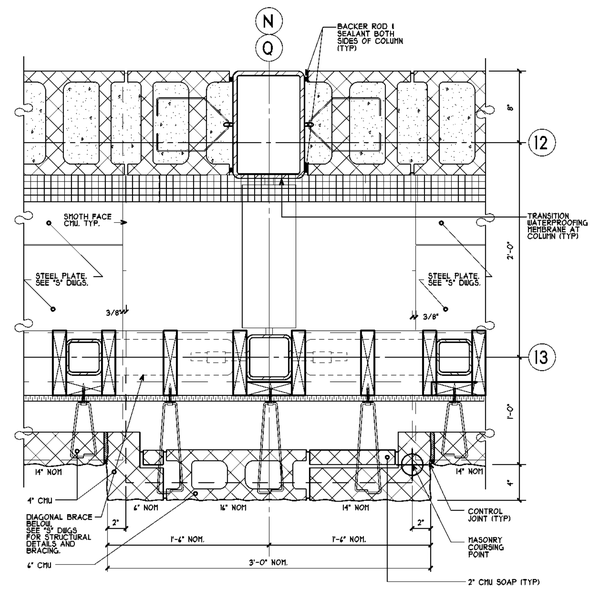
7 A402 PLAN DETAIL LEVEL 5
SCALE: 1 1/2" = 1'-0" 1/A402 & 1/A403



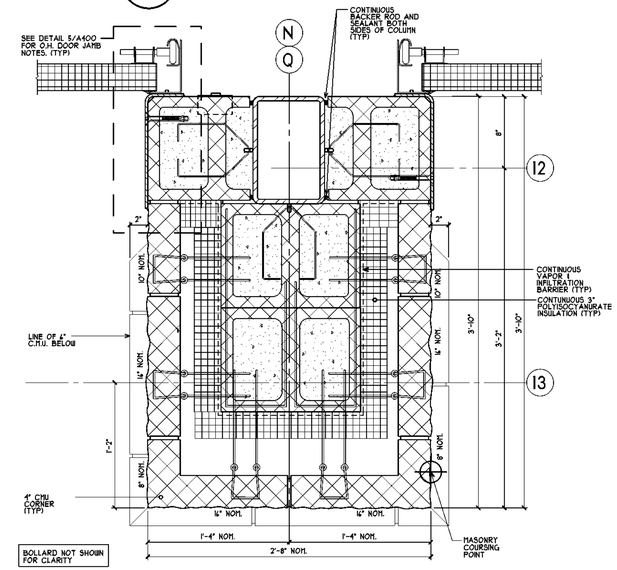
1 A402 N-12 ELEVATION
SCALE: 1/2" = 1'-0" 1/A200



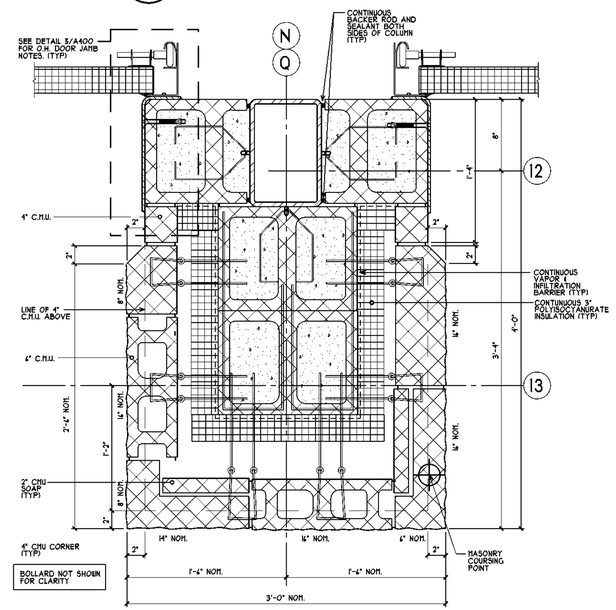
3 A402 PLAN DETAIL LEVEL 4
SCALE: 1 1/2" = 1'-0" 1/A402



2 A402 PLAN DETAIL LEVEL 3
SCALE: 1 1/2" = 1'-0" 1/A402



6 A402 PLAN DETAIL LEVEL 2
SCALE: 1 1/2" = 1'-0" 1/A402



5 A402 PLAN DETAIL LEVEL 1
SCALE: 1 1/2" = 1'-0" 1/A402

DWG ID#: S:\J Drive\Putnam Valley\PV_A402 Plan

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272 FAX: (845) 291-1536

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLAN DETAILS AND ELEVATIONS

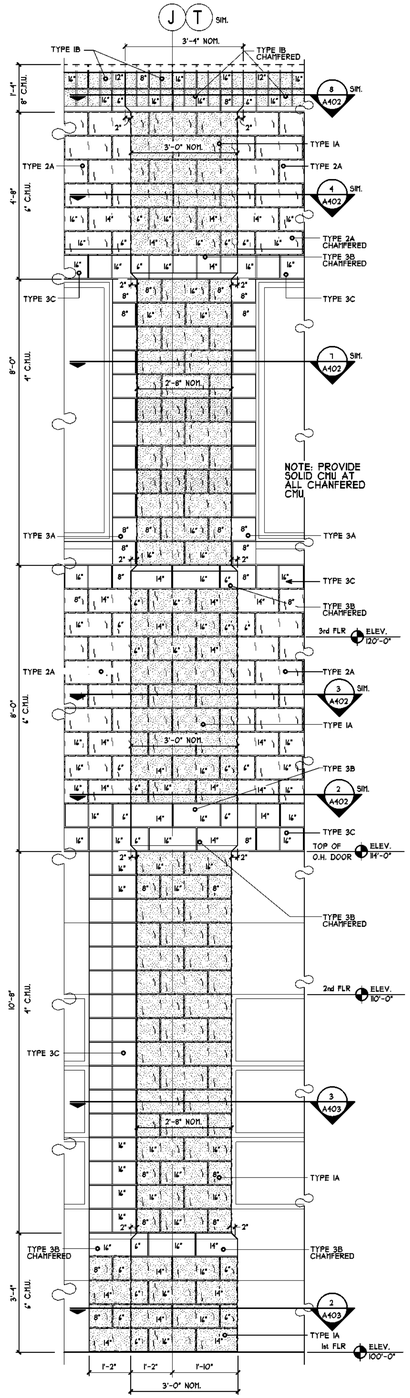
SCALE: AS NOTED
DWG. BY:
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A402

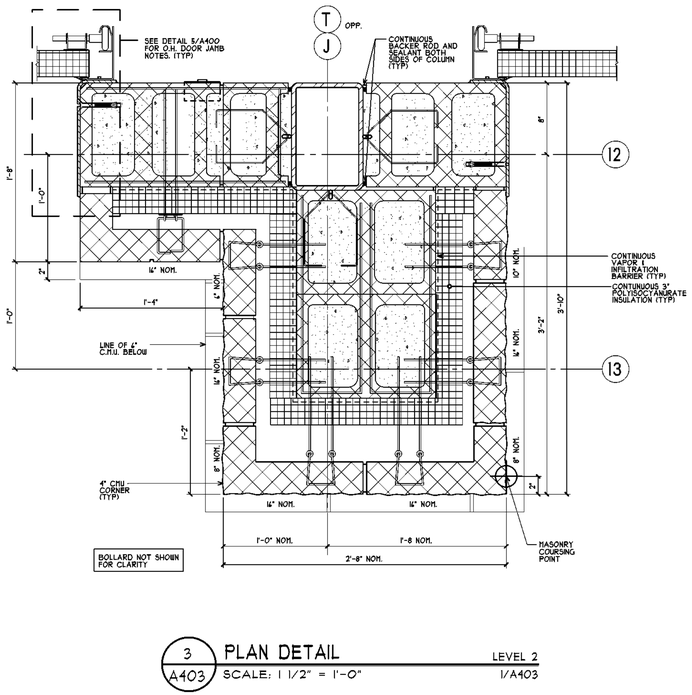
PLOT TIME: 1:38 PM

GENERAL NOTES:

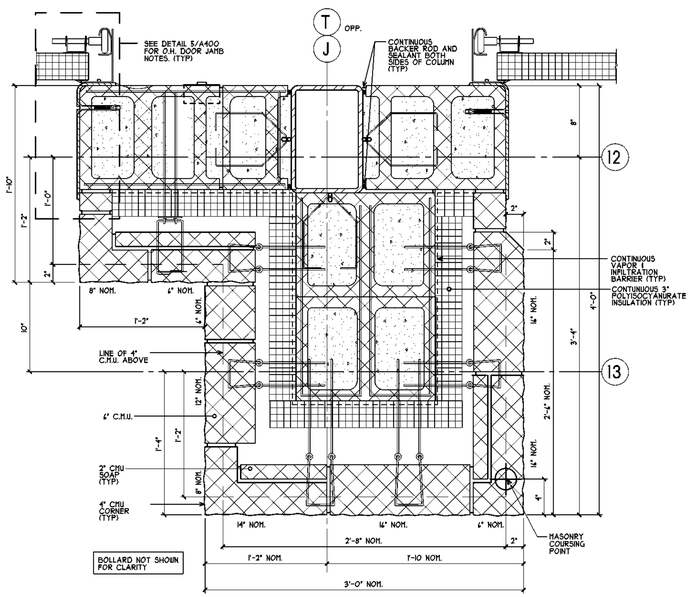
1. THE NUMBERS ON THE ELEVATIONS ARE THE NOMINAL WIDTHS OF THE CMU UNITS. CMU NOMINAL SIZES THAT ARE NOT NORMALLY MANUFACTURED MUST BE CUT TO SIZE. ALL NOMINAL SIZES ARE EXPOSED FACE SIZE.



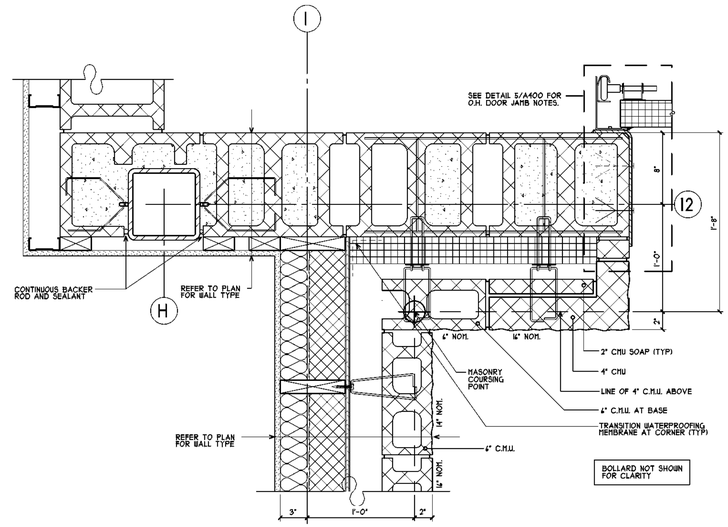
1 / A403 J-13 ELEVATION
SCALE: 1/2" = 1'-0" 1/A100, 1/A200



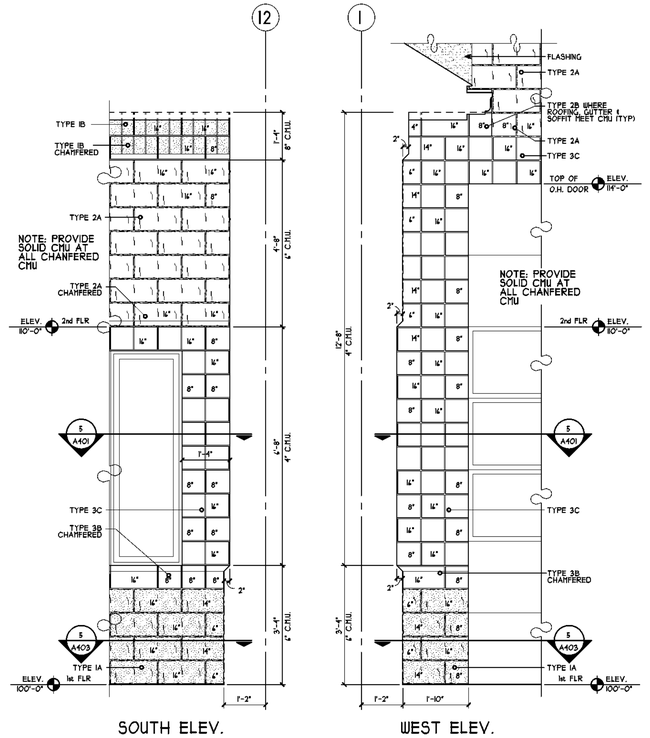
3 / A403 PLAN DETAIL LEVEL 2
SCALE: 1 1/2" = 1'-0" 1/A403



2 / A403 PLAN DETAIL LEVEL 1
SCALE: 1 1/2" = 1'-0" 1/A403



5 / A403 PLAN DETAIL LEVEL 1
SCALE: 1 1/2" = 1'-0" 4/A403



SOUTH ELEV. WEST ELEV.

4 / A403 1-12 ELEVATIONS
SCALE: 1/2" = 1'-0" 1/A100, 1/A200

DWG ID#: S:\J Drive\Putnam Valley\PV_A403 Plan

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272 FAX: (845) 291-1539

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

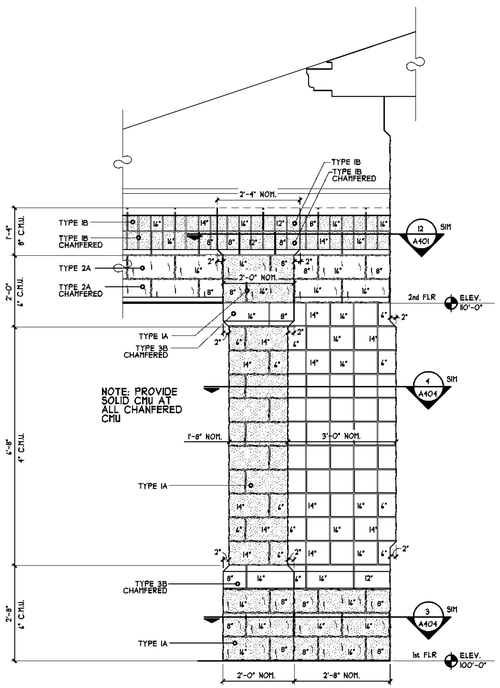
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLAN DETAILS AND ELEVATIONS

SCALE: AS NOTED
DWG. BY:
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

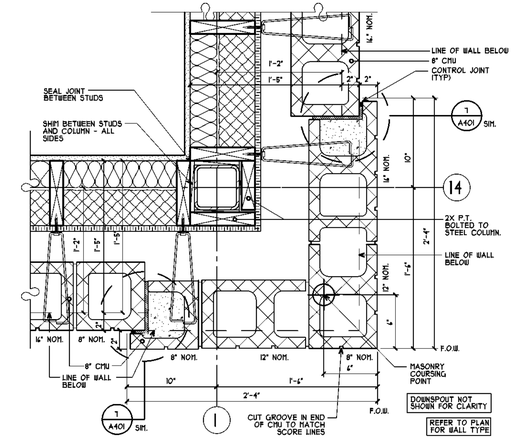
A403

PLOT TIME: 1:43 PM



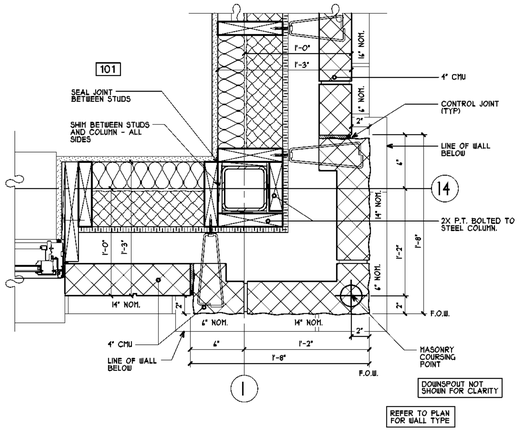
2 / A404 F-14.5 ELEVATION

SCALE: 1/2" = 1'-0" A100, 1/A200, 2/A200



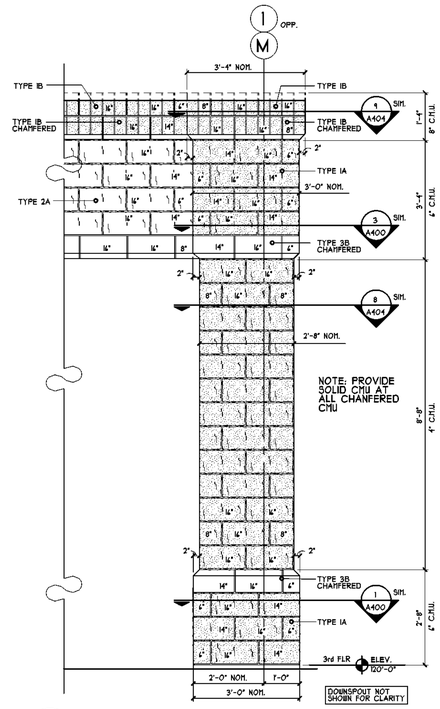
5 / A404 PLAN DETAIL (1-14 ELEV) LEVEL 4

SCALE: 1/2" = 1'-0" 1/A404



4 / A404 PLAN DETAIL (1-14 ELEV) (F-14.5 ELEV) SIM LEVEL 2

SCALE: 1 1/2" = 1'-0" 1/A404, 2/A404

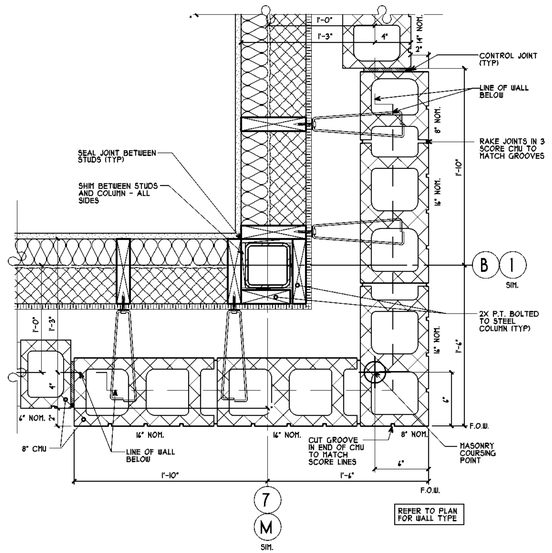


7 / A404 M-1 ELEVATION

SCALE: 1/2" = 1'-0" 1/A102, 2/A200

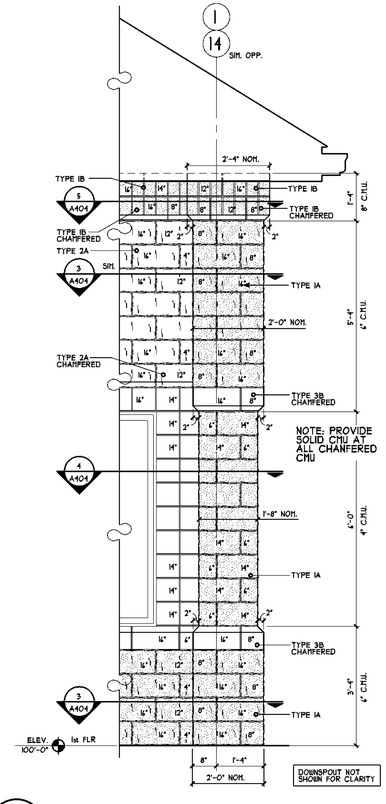
GENERAL NOTES:

1. THE NUMBERS ON THE ELEVATIONS ARE THE NOMINAL WIDTHS OF THE CMU UNITS. CMU NOMINAL SIZES THAT ARE NOT NORMALLY MANUFACTURED MUST BE CUT TO SIZE. ALL NOMINAL SIZES ARE EXPOSED FACE SIZE.



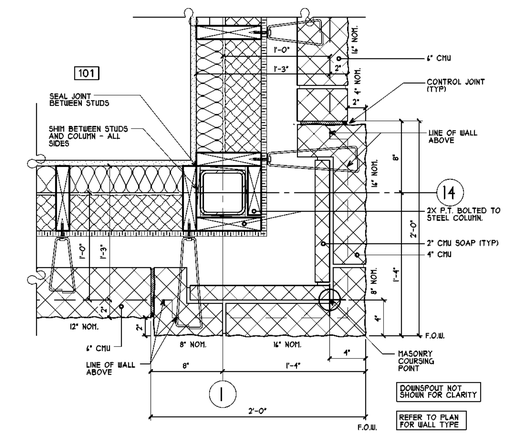
9 / A404 PLAN DETAIL (B-1 ELEV) (M-1 ELEV SIM) LEVEL 4

SCALE: 1 1/2" = 1'-0" 6/A404, 7/A404



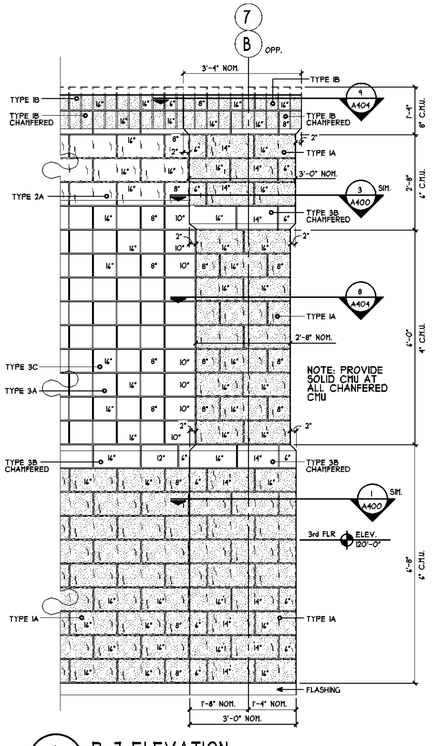
1 / A404 1-14 ELEVATION

SCALE: 1/2" = 1'-0" A100, 1/A200, 2/A201



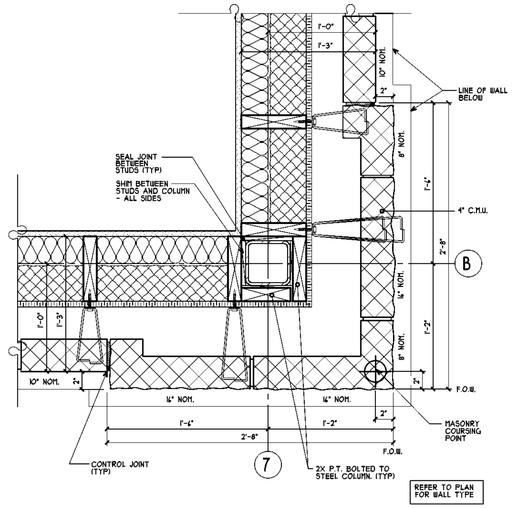
3 / A404 PLAN DETAIL (1-14 ELEV) LEVEL 1 & LEVEL 3

SCALE: 1 1/2" = 1'-0" 1/A404, 2/A404



6 / A404 B-7 ELEVATION

SCALE: 1/2" = 1'-0" 1/A101, 1/A102, 2/A200, 1/A201



8 / A404 PLAN DETAIL (B-7 ELEV) LEVEL 2

SCALE: 1 1/2" = 1'-0" 6/A404

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4490 FAX (845) 225-4177

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-4944 FAX (518) 584-4955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

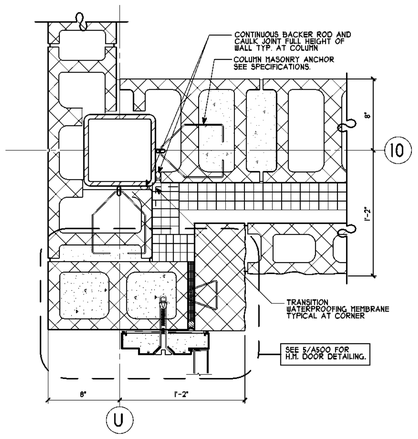
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLAN DETAILS AND ELEVATIONS

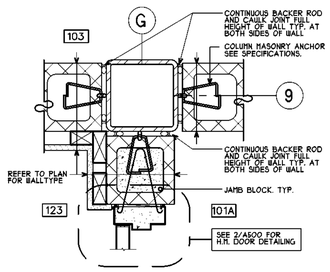
SCALE: AS NOTED
DWG. BY:
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A404

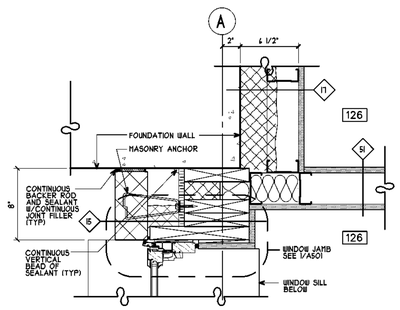
DWG ID#: S:\V Drive\Putnam Valley\PV_A403 Plan



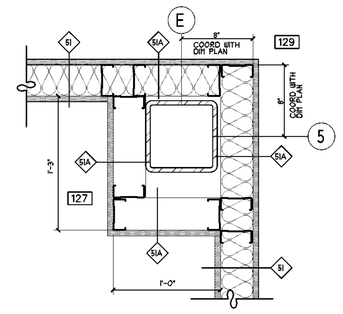
3 / A405 PLAN DETAIL (1 FLR)
SCALE: 1 1/2" = 1'-0" A100



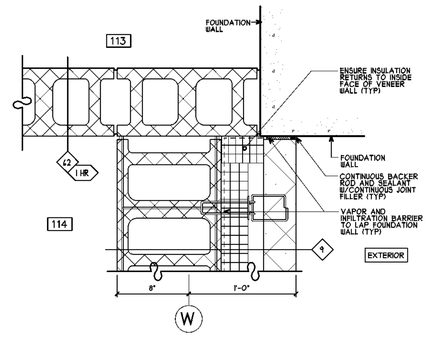
6 / A405 PLAN DETAIL (1 FLR)
SCALE: 1 1/2" = 1'-0" A100



9 / A405 PLAN DETAIL (1 FLR)
SCALE: 1 1/2" = 1'-0" A100



12 / A405 PLAN DETAIL (1 FLR)
SCALE: 1 1/2" = 1'-0" A100



15 / A405 PLAN DETAIL (2IFLR) (2 FLR sim.)
SCALE: 1 1/2" = 1'-0" A100, A101

2 / A405 PLAN DETAIL (1 FLR)
SCALE: 1 1/2" = 1'-0" A100

5 / A405 PLAN DETAIL (1 FLR)
SCALE: 1 1/2" = 1'-0" A100

8 / A405 PLAN DETAIL (1 FLR)
SCALE: 1 1/2" = 1'-0" A100

11 / A405 PLAN DETAIL (1 FLR)
SCALE: 1 1/2" = 1'-0" A100

14 / A405 PLAN DETAIL (3 FLR)
SCALE: 1 1/2" = 1'-0" A102

1 / A405 PLAN DETAIL (1 FLR)
SCALE: 1 1/2" = 1'-0" A100

4 / A405 PLAN DETAIL (1 FLR)
SCALE: 1 1/2" = 1'-0" A100

7 / A405 PLAN DETAIL (1 FLR)
SCALE: 1 1/2" = 1'-0" A100

10 / A405 PLAN DETAIL (1 FLR)
SCALE: 1 1/2" = 1'-0" A100

13 / A405 PLAN DETAIL (3 FLR)
SCALE: 1 1/2" = 1'-0" A102

DWG ID#: S:\J Drive\Putnam Valley\PV_A405 Plan

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4640 FAX (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-4944 FAX (518) 584-4955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
COHOES, NY 12047
(845) 291-1212 FAX (845) 291-1439

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

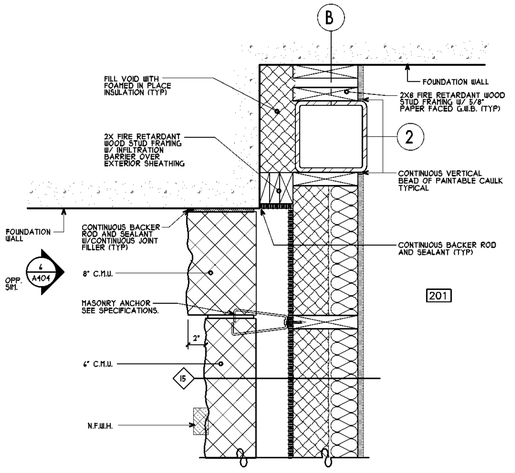
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLAN DETAILS

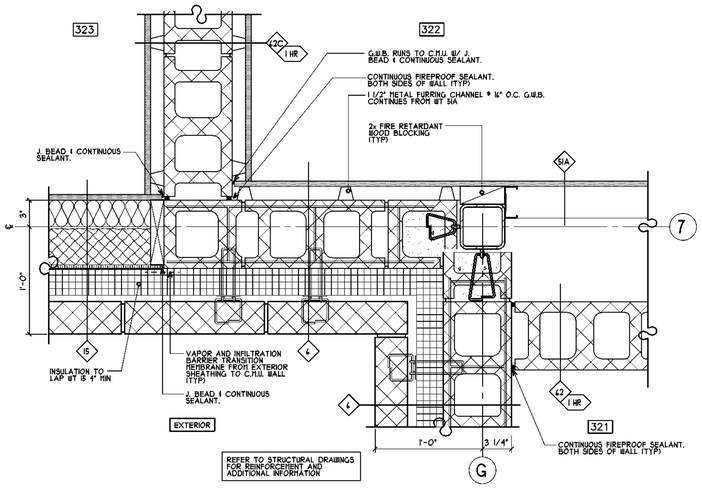
SCALE: AS NOTED
DWG. BY: JDA, JDC
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A405

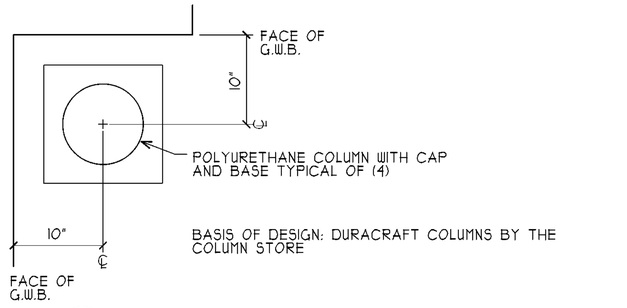
PLOT TIME: 12:12 PM



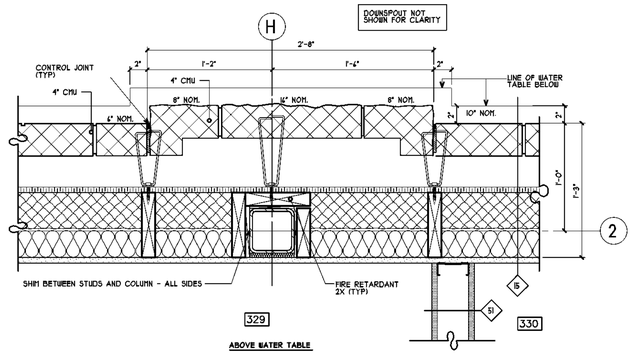
8 A406 PLAN DETAIL (2 FLR)
SCALE: 1 1/2" = 1'-0" A101

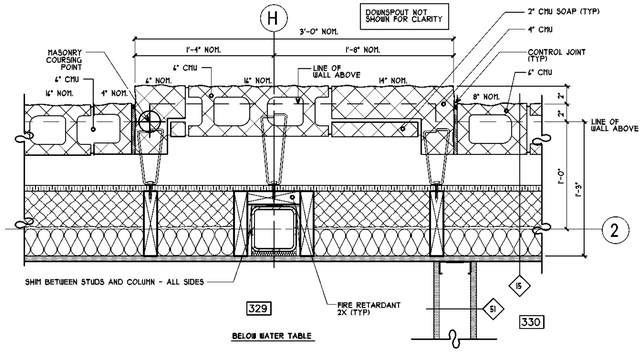


7 A406 PLAN DETAIL (3 FLR)
SCALE: 1 1/2" = 1'-0" A102

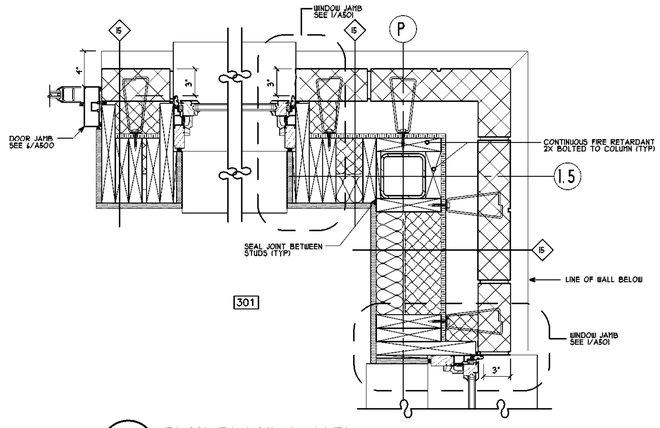


6 A406 PLAN DETAIL
SCALE: 1/2" = 1'-0" A102

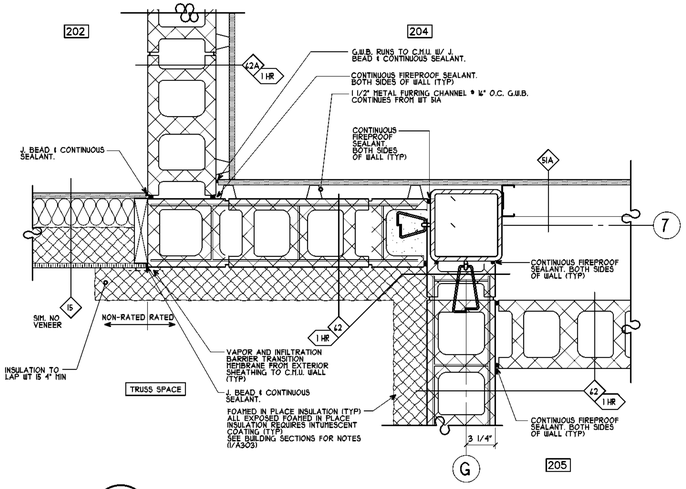




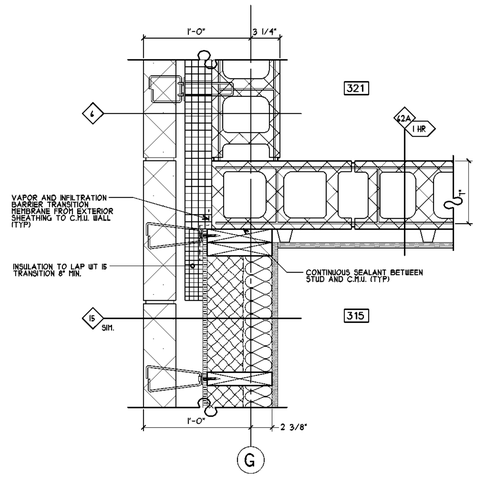
5 A406 PLAN DETAIL (3 FLR)
SCALE: 1 1/2" = 1'-0" A102



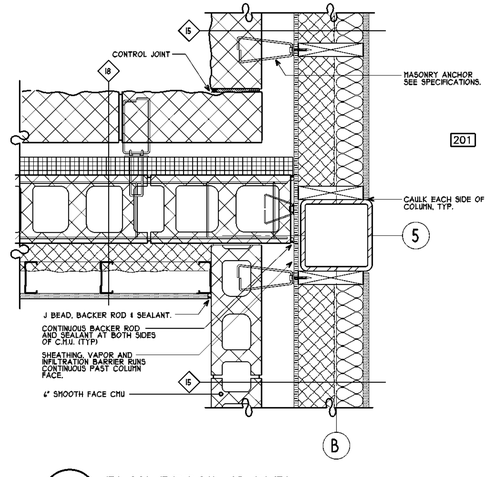
4 A406 PLAN DETAIL (3 FLR)
SCALE: 1 1/2" = 1'-0" A102



3 A406 PLAN DETAIL (2 FLR)
SCALE: 1 1/2" = 1'-0" A101



2 A406 PLAN DETAIL (3 FLR)
SCALE: 1 1/2" = 1'-0" A102



1 A406 PLAN DETAIL (2 FLR)
SCALE: 1 1/2" = 1'-0" A101

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARTERET, NY 12032
(845) 225-4640 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 581-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

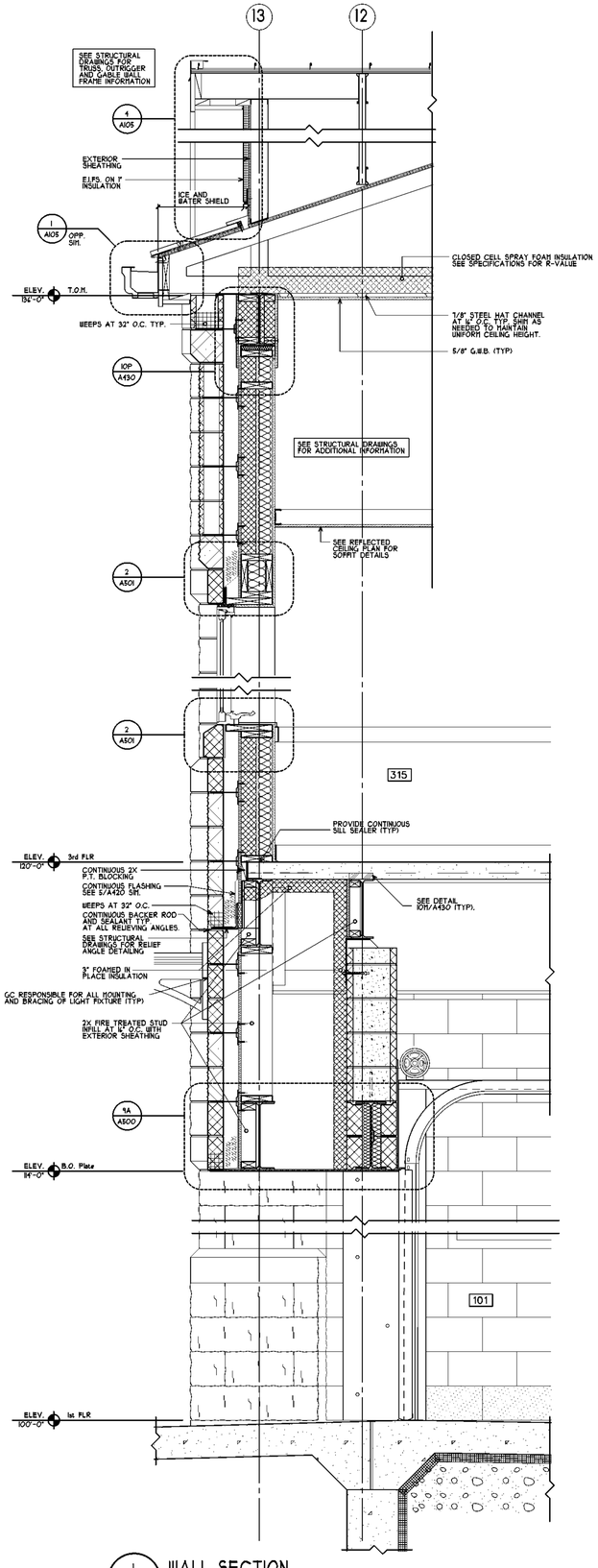
PLAN DETAILS

SCALE: AS NOTED
DWG. BY:
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

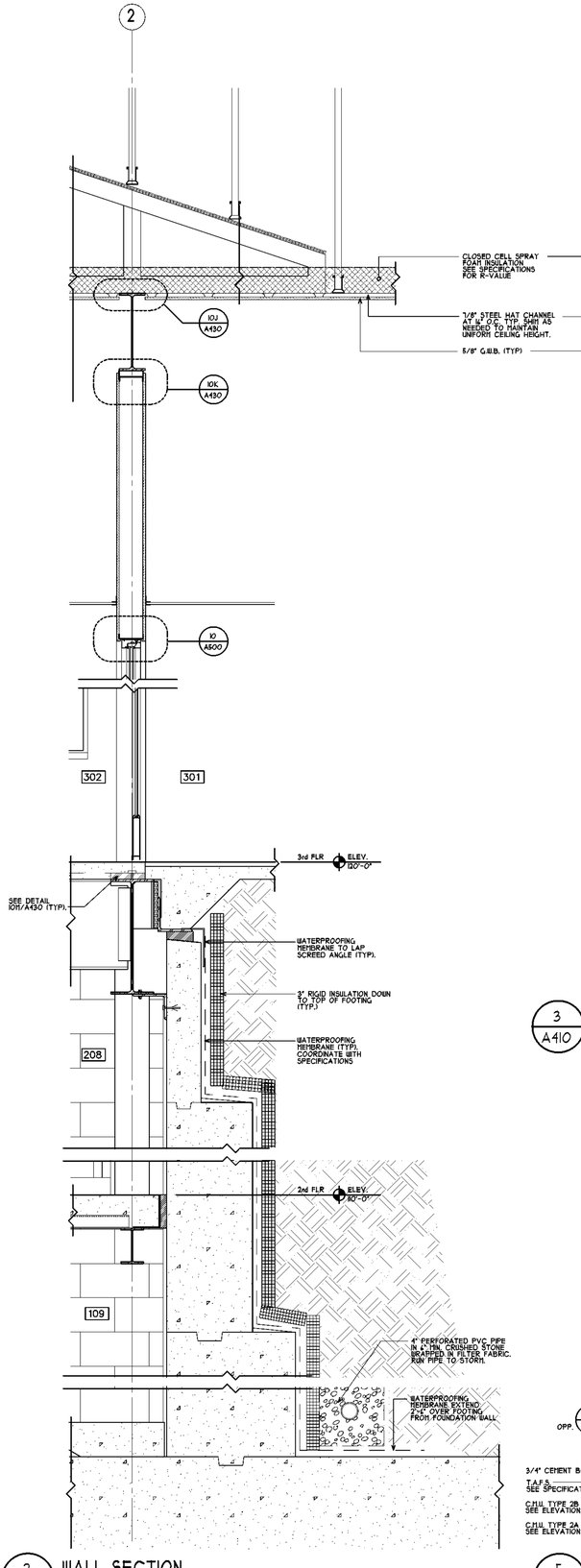
A406

PLOT TIME: 12:13 PM

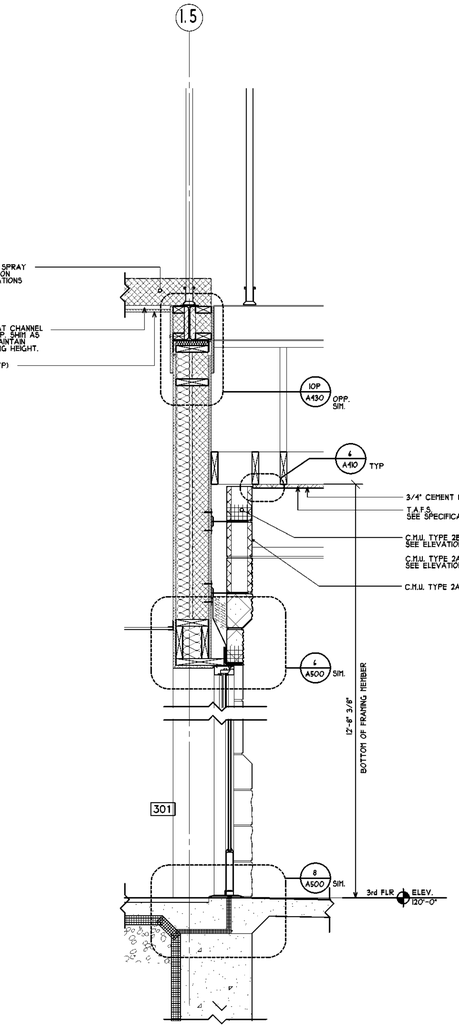
DWG ID#: S:\J Drive\Putnam Valley\PV_A405 Plan



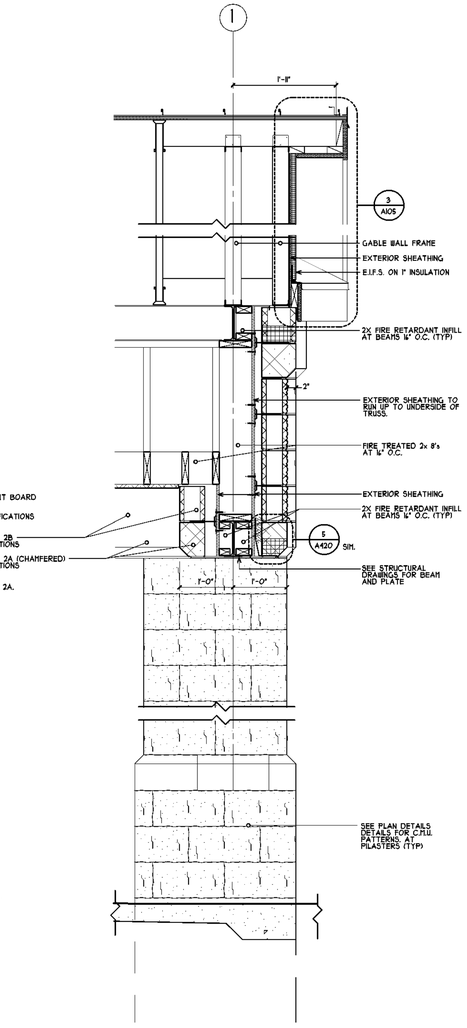
1 A410 WALL SECTION
SCALE: 3/4" = 1'-0" 1/A300



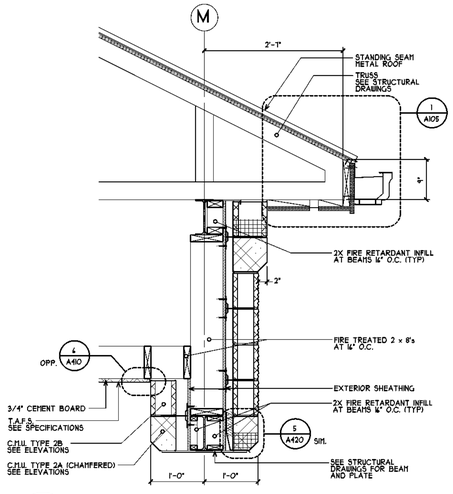
2 A410 WALL SECTION
SCALE: 3/4" = 1'-0" 1/A300



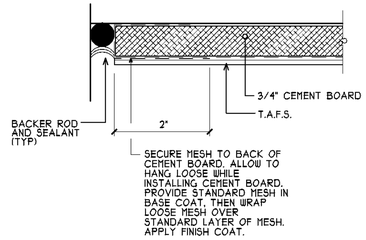
3 A410 WALL SECTION
SCALE: 3/4" = 1'-0" 1/A300



4 A410 WALL SECTION
SCALE: 3/4" = 1'-0" 1/A300



5 A410 WALL SECTION
SCALE: 3/4" = 1'-0" 1/A104



6 A410 ENLARGED DETAIL
SCALE: N.T.S. 3, 4 & 5/A410 - 4/A413

DWG ID#: S:\J Drive\Putnam Valley\PV_A410 Wall Section

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

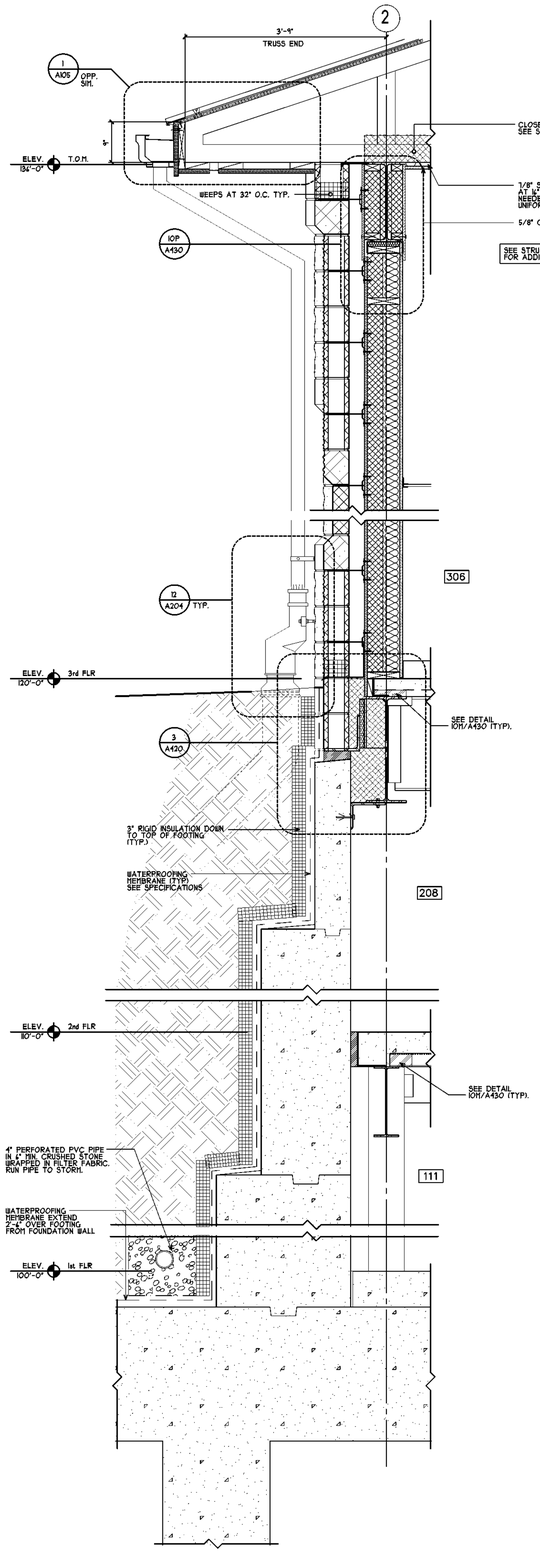
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

WALL SECTIONS

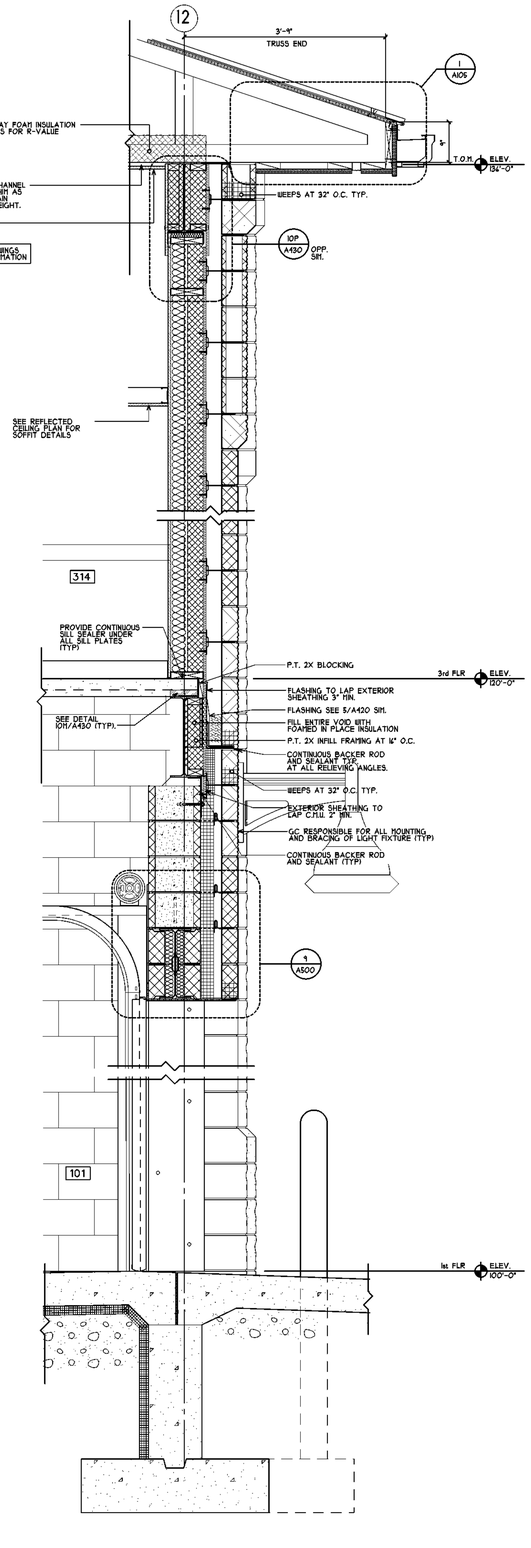
SCALE: AS NOTED
DWG. BY: JDC, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A410

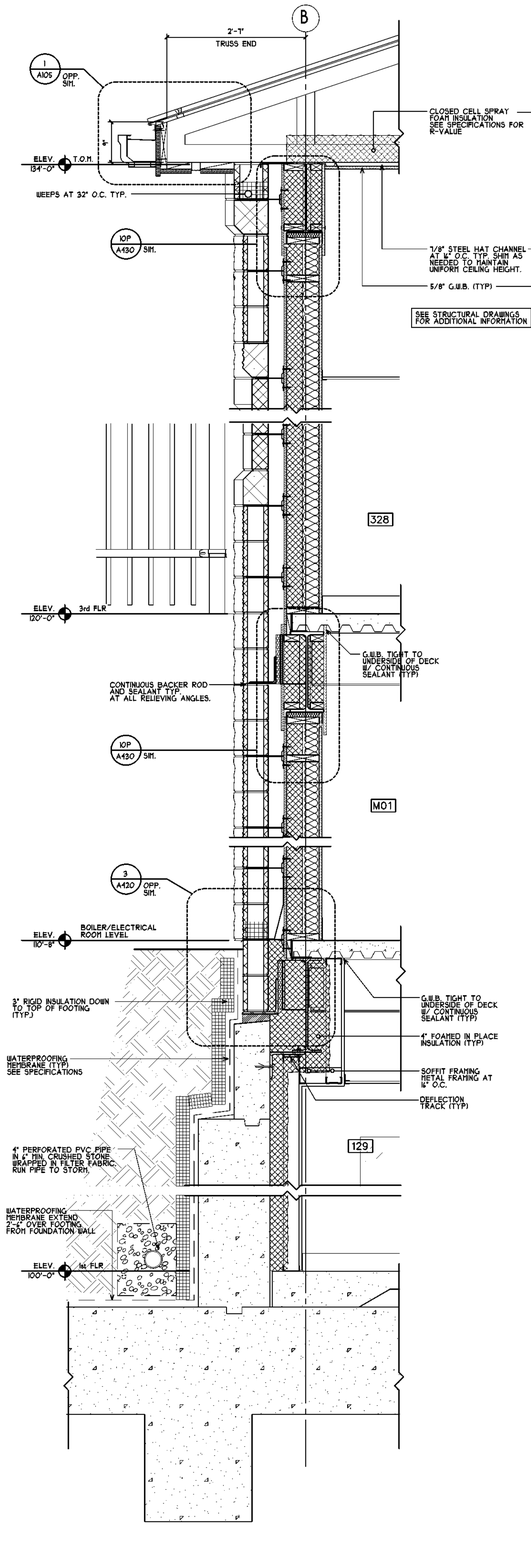
PLOT TIME: 12:14 PM



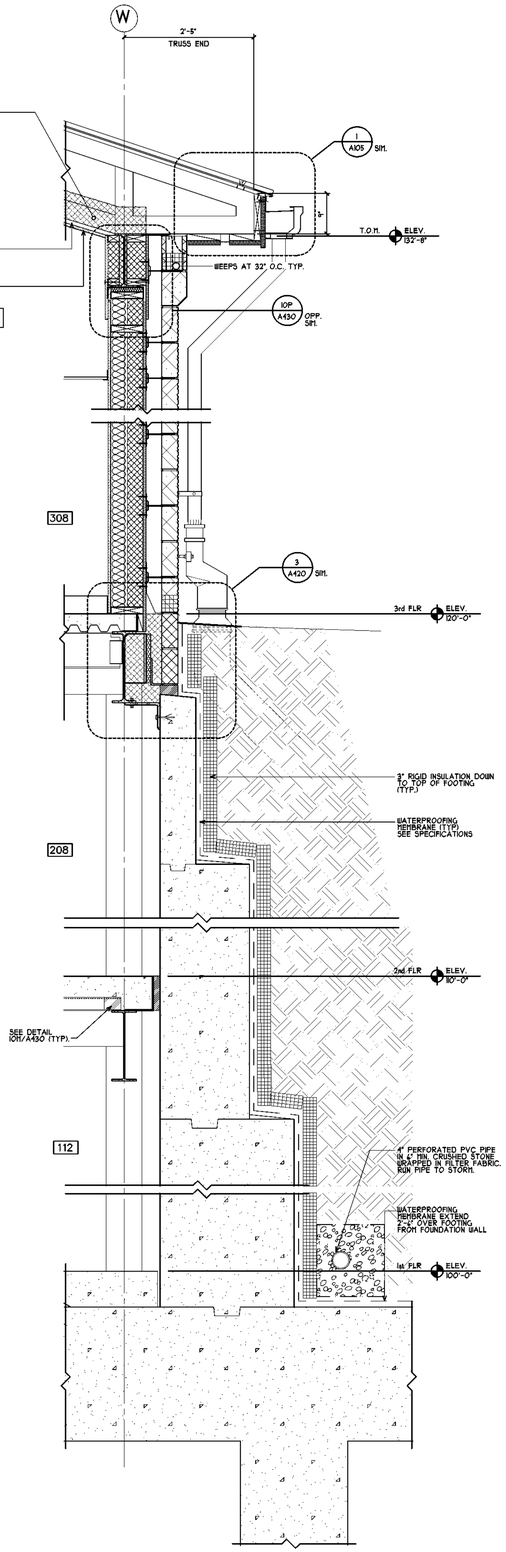
1 WALL SECTION
A411 SCALE: 3/4" = 1'-0" 1/A301



2 WALL SECTION
A411 SCALE: 3/4" = 1'-0" 1/A301



3 WALL SECTION
A411 SCALE: 3/4" = 1'-0" 1/A302



4 WALL SECTION
A411 SCALE: 3/4" = 1'-0" 1/A302

DWG ID#: S:\J Drive\Putnam Valley\PV_A410 Wall Section

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

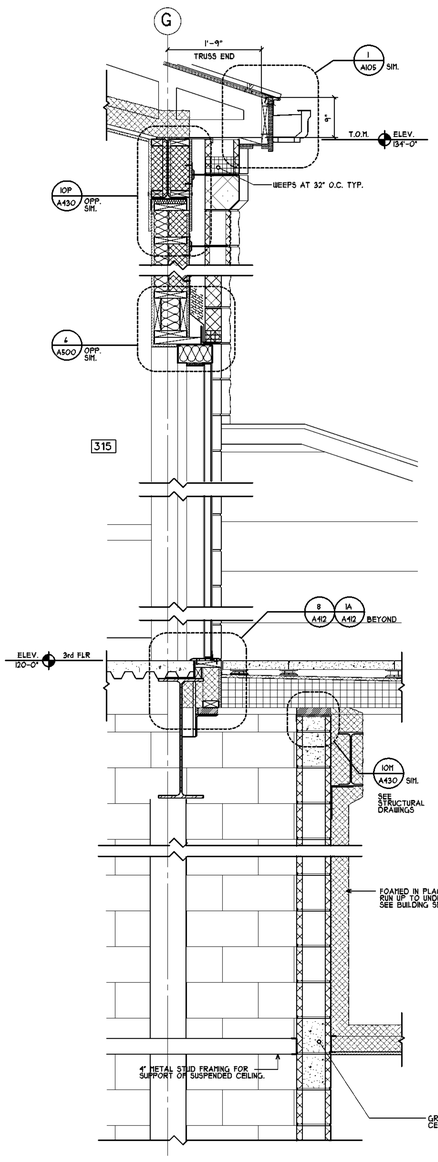
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

WALL SECTIONS

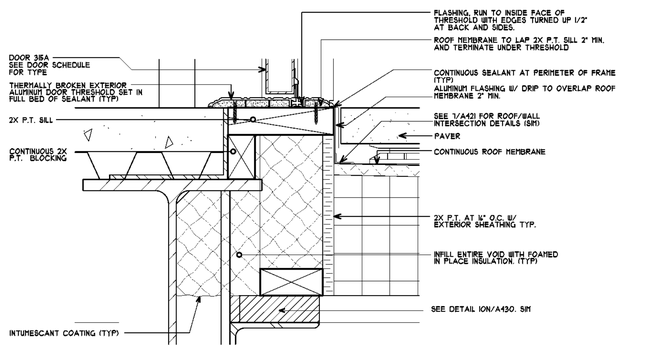
SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A411

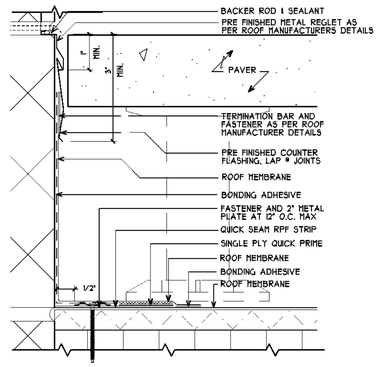
PLOT TIME: 2:14 PM



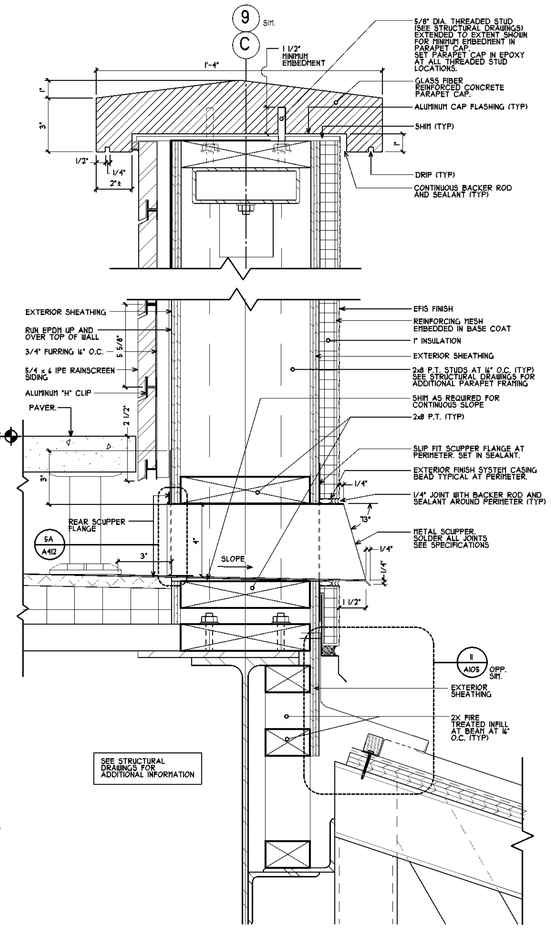
1 A412 WALL SECTION
SCALE: 3/4" = 1'-0" 1/A303



8 A412 THRESHOLD AT DOOR 315A
SCALE: 3" = 1'-0" 1/A412

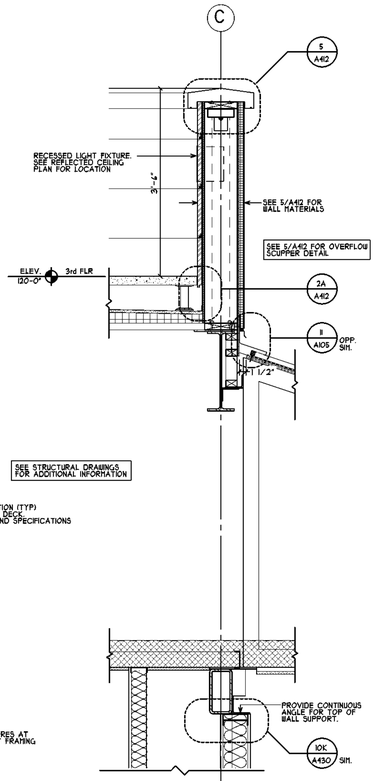


7 A412 THROUGH WALL FLASHING AT PATIO
SCALE: 6" = 1'-0" 4/A412

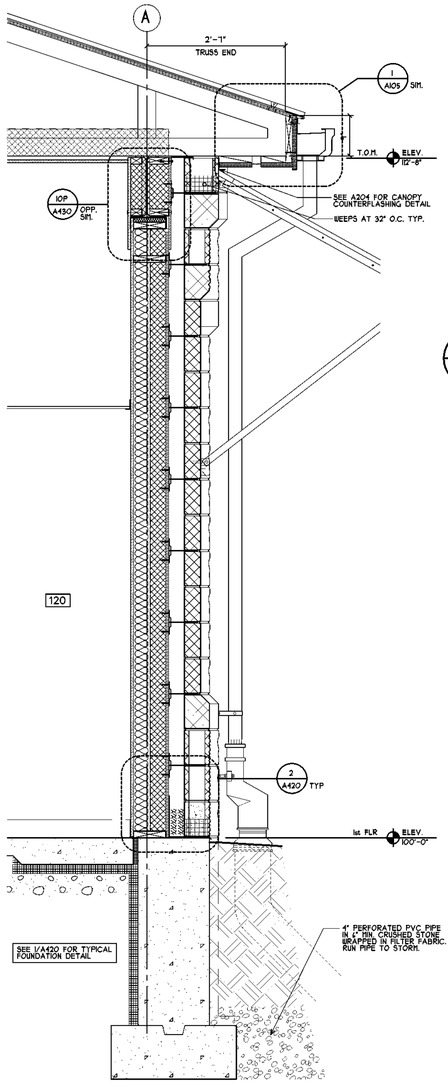


5 A412 THROUGH WALL OVERFLOW SCUPPER AND PARAPET CAP DETAIL
SCALE: 3" = 1'-0" 1/A104 & 1/A303

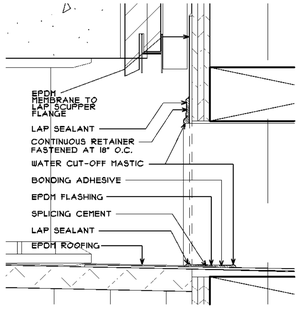
1A A412 PARTIAL WALL SECTION
SCALE: 1" = 1'-0" 1/A412



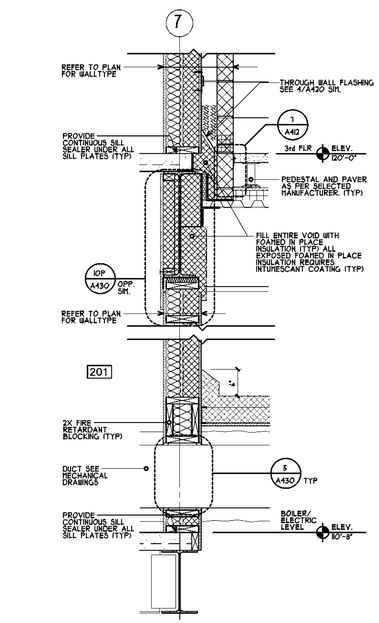
2 A412 WALL SECTION
SCALE: 3/4" = 1'-0" 1/A303



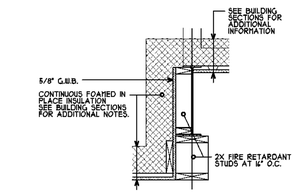
3 A412 WALL SECTION
SCALE: 3/4" = 1'-0" 1/A303



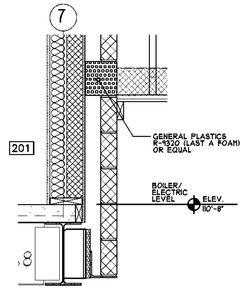
5A A412 DETAIL
SCALE: 6" = 1'-0" 5/A412



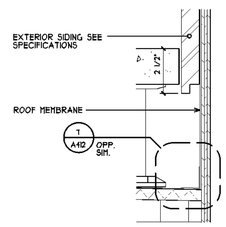
4 A412 WALL SECTION
SCALE: 3/4" = 1'-0" 1/A304



6 A412 WALL SECTION DETAIL
SCALE: 3/4" = 1'-0" 1/A302



4A A412 WALL SECTION DETAIL
SCALE: 3/4" = 1'-0" 1/A101



2A A412 PARAPET WALL DETAIL
SCALE: 3" = 1'-0" 2/A412

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4640 FAX (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION
TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

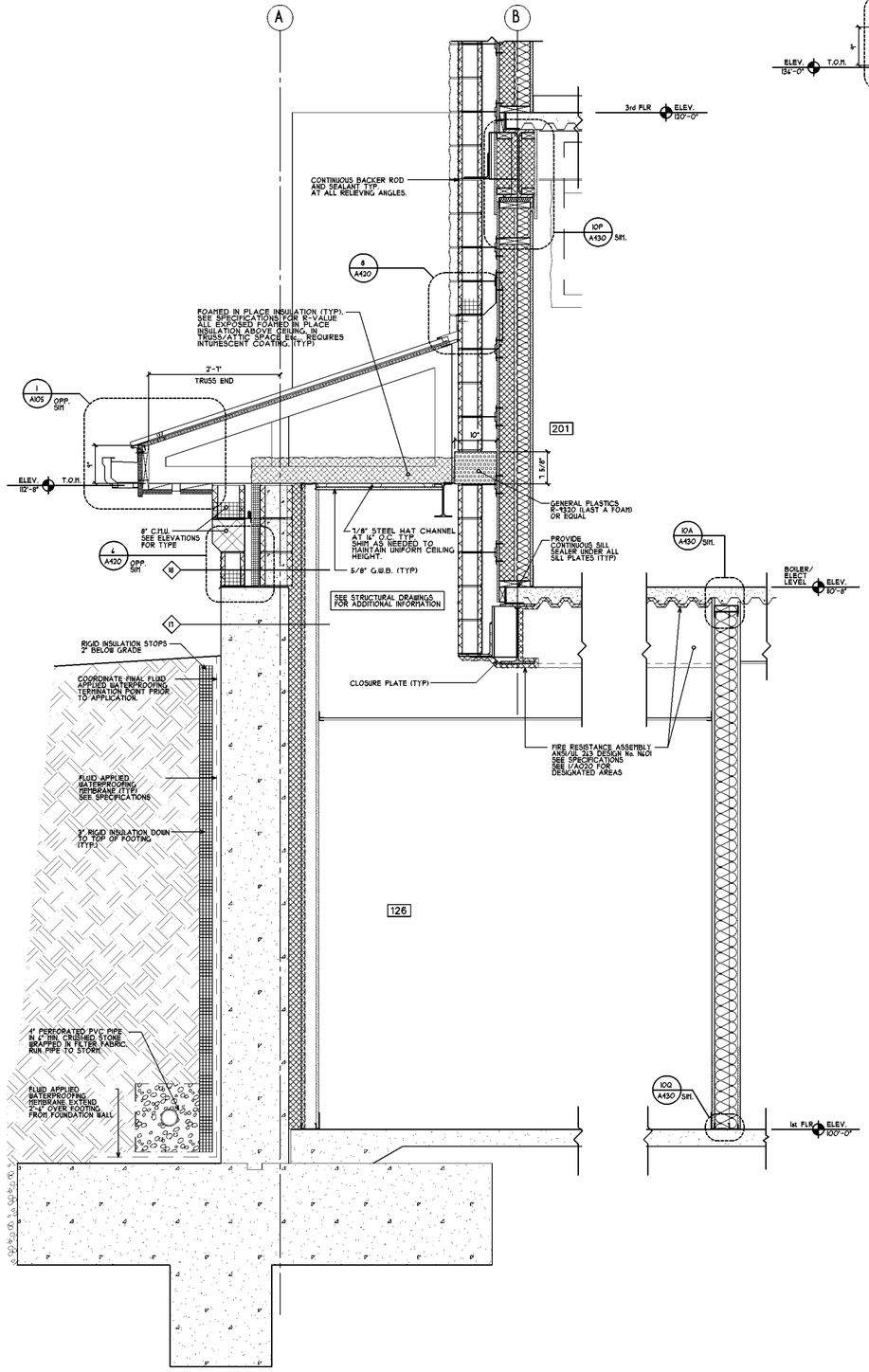
WALL SECTION AND DETAILS

SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

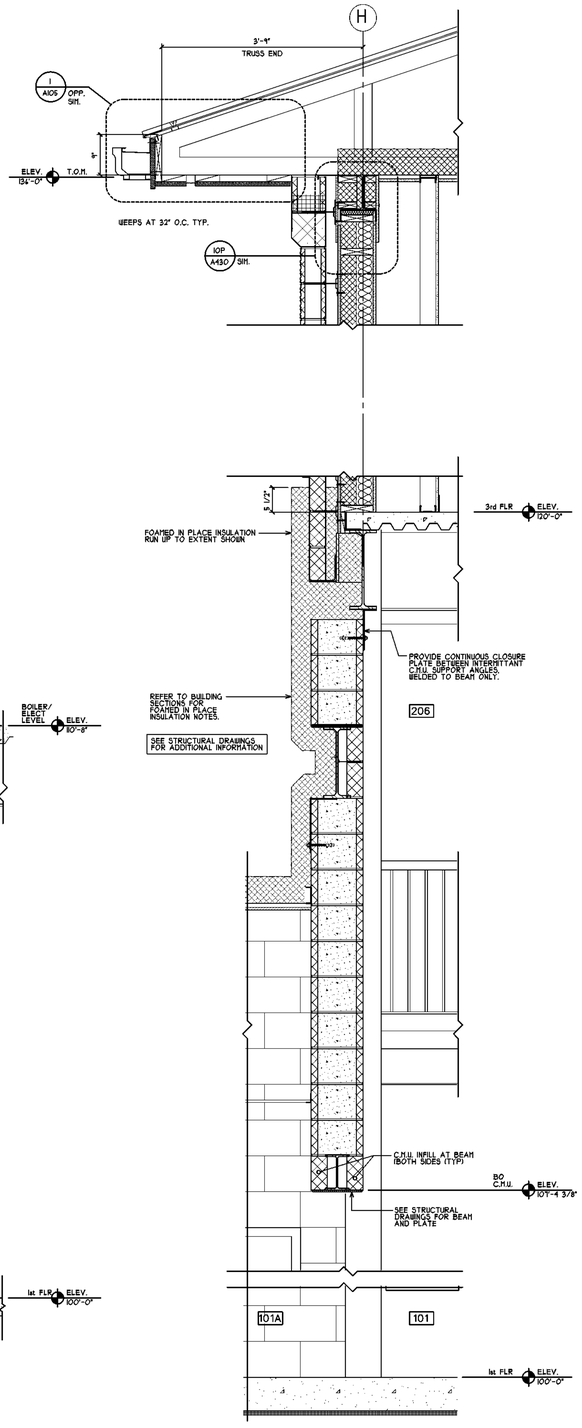
A412

PLOT TIME: 2:32 PM

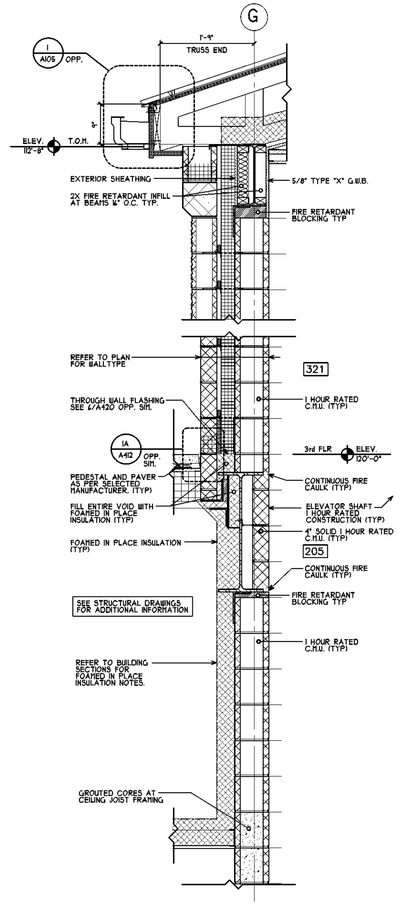
DWG ID#: S:\J Drive\Putnam Valley\PV_A412 Wall Section



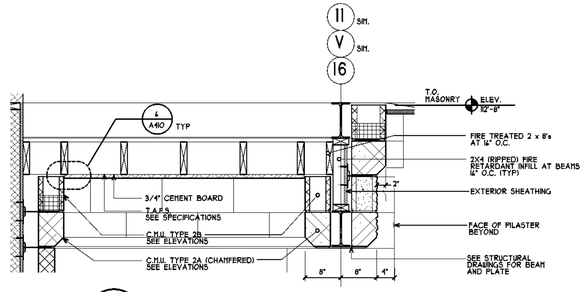
1 A413 **WALL SECTION**
SCALE: 3/4" = 1'-0" A/100, A101 & A102



2 A413 **WALL SECTION**
SCALE: 3/4" = 1'-0" A/100, A101 & A102



3 A413 **WALL SECTION**
SCALE: 3/4" = 1'-0" A/100, A101 & A102



4 A413 **WALL SECTION**
SCALE: 3/4" = 1'-0" 1/A104

DWG ID#: S:\J Drive\Putnam Valley\PV_A413 Wall Section

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4640 FAX (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

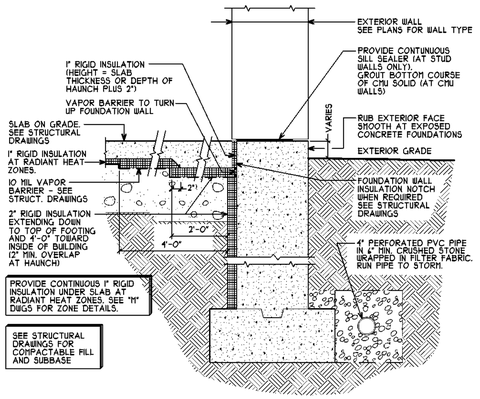
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

WALL SECTION AND DETAILS

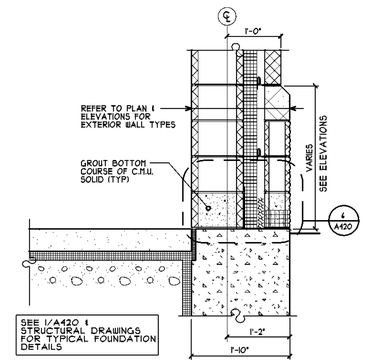
SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A413

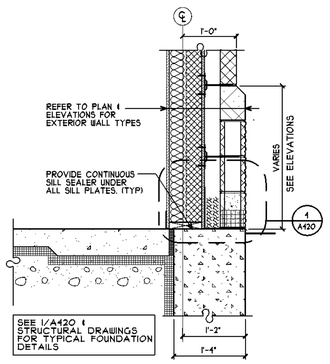
PLOT TIME: 2:51 PM

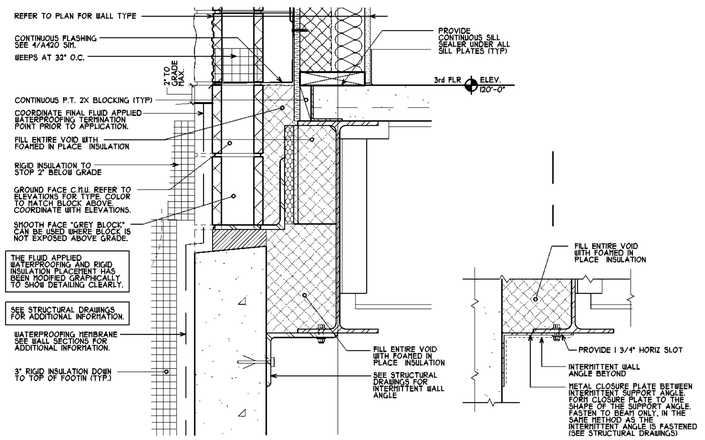


1 / A420 TYPICAL FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"

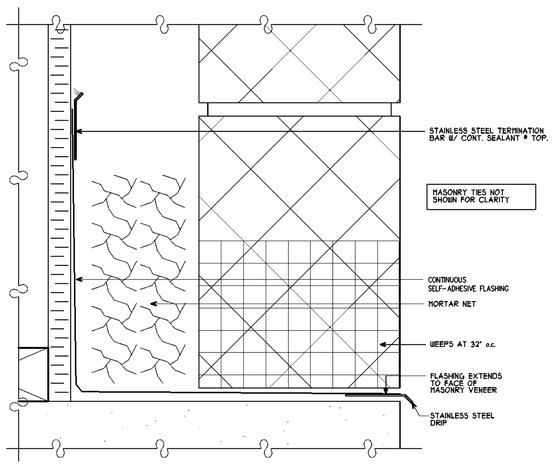


2 / A420 TYPICAL BASE OF WALL DETAIL
SCALE: 3/4" = 1'-0"

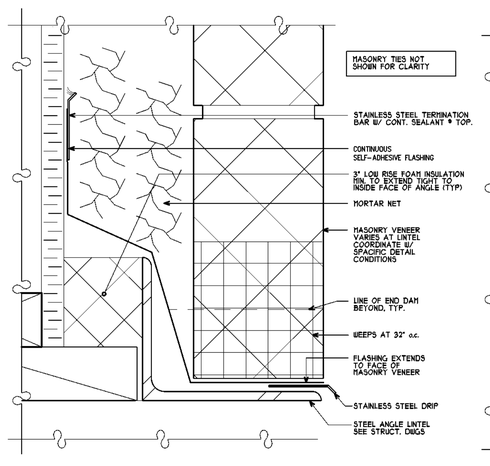




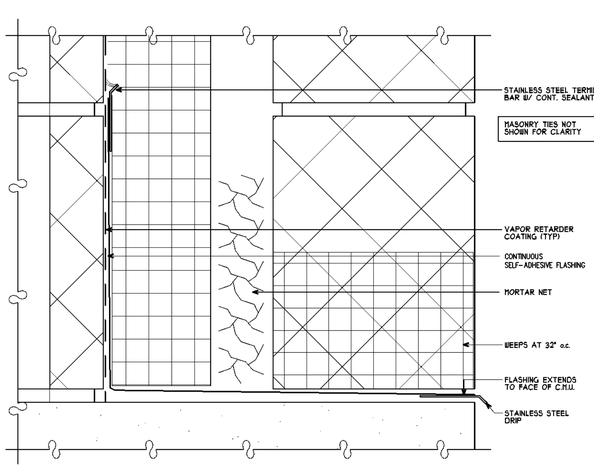
3 / A420 TYPICAL BASE OF WALL AT 3rd FLOOR
SCALE: 1 1/2" = 1'-0"



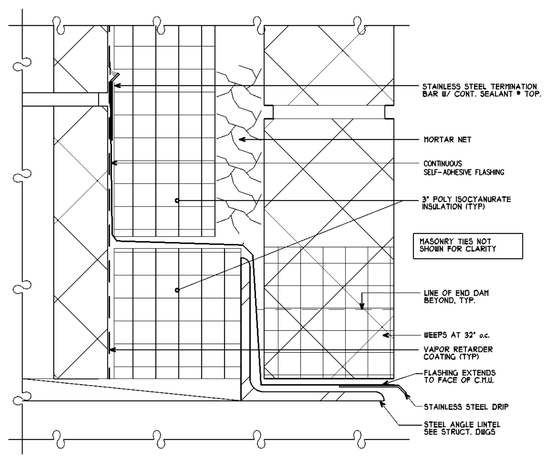
4 / A420 TYP. WALL FLASHING AT STUD WALLS W/MASONRY VENEER
SCALE: 3" = 1'-0"



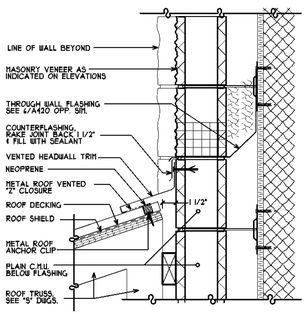
5 / A420 TYP. WALL FLASHING AT STUD WALLS W/ STEEL ANGLE LINTEL
SCALE: 3" = 1'-0"



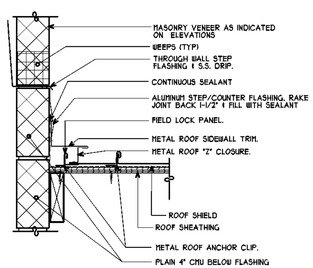
6 / A420 TYP. WALL FLASHING AT C.M.U. CAVITY WALLS
SCALE: 3" = 1'-0"



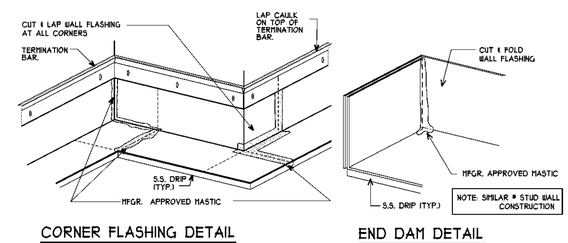
7 / A420 TYP. WALL FLASHING AT C.M.U. CAVITY WALL AT STEEL ANGLE LINTEL
SCALE: 3" = 1'-0"



8 / A420 METAL ROOF TO C.M.U. VENEER DETAIL
SCALE: 1 1/2" = 1'-0"



9 / A420 TYP STEP FLASHING @ METAL ROOF TO MASONRY VENEER INTERSECTION
SCALE: 1 1/2" = 1'-0"



CORNER FLASHING DETAIL

END DAM DETAIL

10 / A420 TYPICAL WALL FLASHING DETAILS AT CORNERS AND END DAMS
SCALE: N.T.S.

DWG ID#: S:\J Drive\Putnam Valley\PV_A420

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4910 FAX: (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

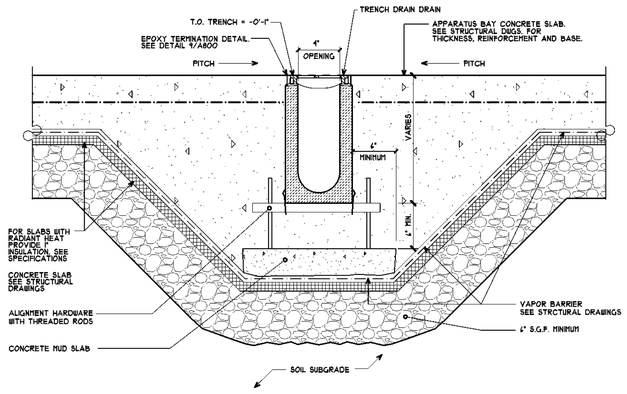
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

TYPICAL FLASHING/BASE OF WALL DETAILS

SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A420

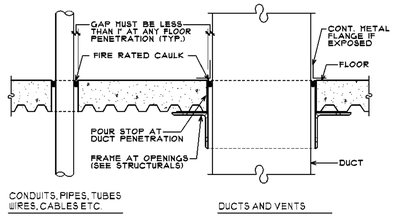
PLOT TIME: 2:58 PM



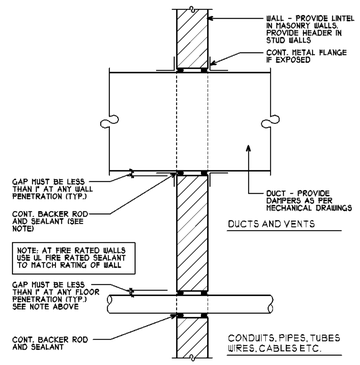
1 A430 **TRENCH DRAIN DETAIL**
SCALE: 1 1/2" = 1'-0"

NOTE: DEPTH OF TRENCH VARIES. COORDINATE W/ CONCRETE WORK.

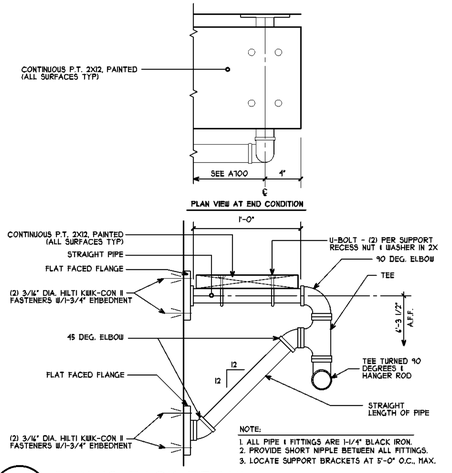
1/A303



4 A430 **TYPICAL FLOOR PENETRATION CLOSURE**
SCALE: 1 1/2" = 1'-0"



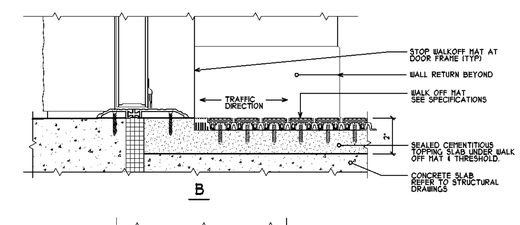
5 A430 **TYPICAL WALL PENETRATION CLOSURE**
SCALE: 1 1/2" = 1'-0"



6 A430 **DRYING RACK DETAIL**
SCALE: 1 1/2" = 1'-0"

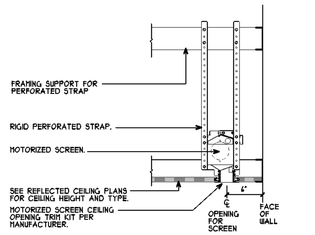
DETAIL NOT USED

7 A430 SCALE:



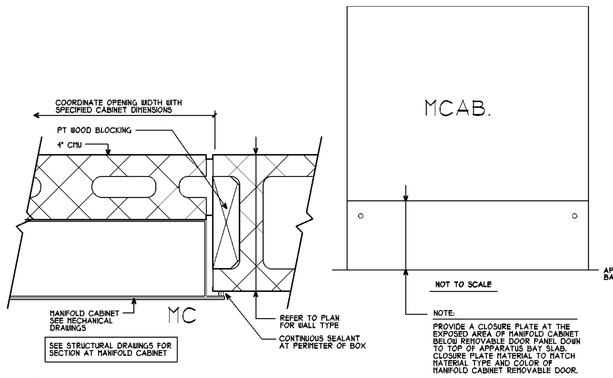
8 A430 **ENTRY MAT DETAIL**
SCALE: 3" = 1'-0"

A100 & A102

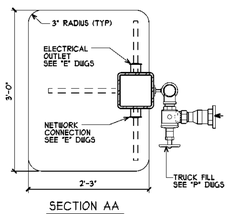


9 A430 **MOTORIZED SCREEN DETAIL**
SCALE: 1" = 1'-0"

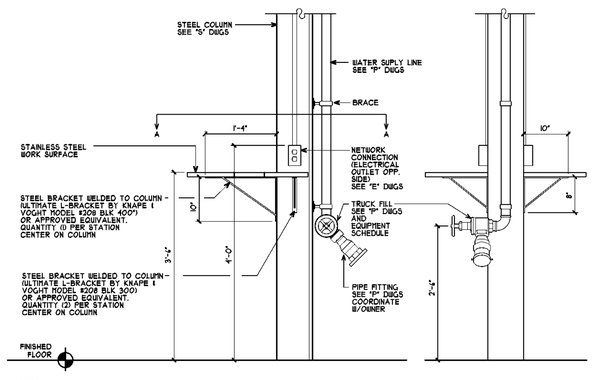
1/A602



2 A430 **MANIFOLD CABINET DETAIL**
SCALE: 3" = 1'-0"



SECTION AA



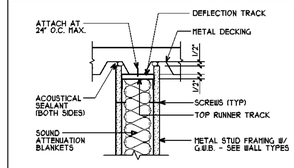
3 A430 **COLUMN COUNTERTOP & TRUCK FILL**
SCALE: 3/4" = 1'-0"

KEYNOTE/A100

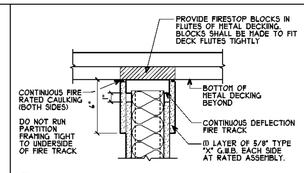
TYPICAL INTERIOR/EXTERIOR WALL CONNECTION DETAILS

10 A430
SCALE: 1 1/2" = 1'-0"

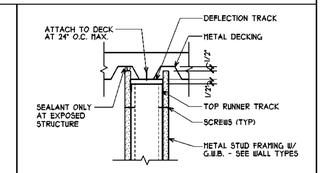
INTERIOR METAL STUD



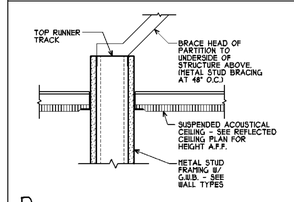
A. TYPICAL TOP OF WALL STUD FRAMING TO UNDERSIDE OF FLOOR OR ROOF DECKING WITH SOUND ATTENUATION BLANKETS



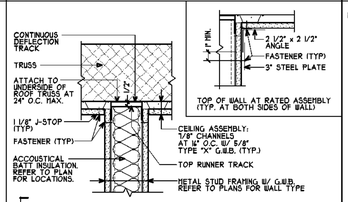
B. TYPICAL TOP OF WALL STUD FRAMING TO UNDERSIDE OF FLOOR OR ROOF DECKING AT RATED PARTITIONS



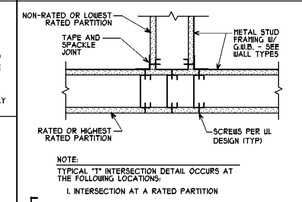
C. TYPICAL TOP OF WALL STUD FRAMING TO UNDERSIDE OF FLOOR OR ROOF DECKING AT NON-RATED PARTITIONS



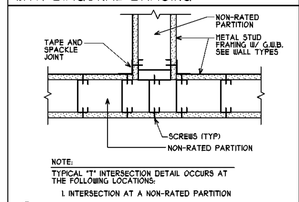
D. TYPICAL TOP OF WALL STUD FRAMING WITH DIAGONAL BRACING



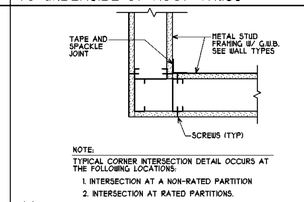
E. TYPICAL TOP OF WALL STUD FRAMING TO UNDERSIDE OF ROOF TRUSS



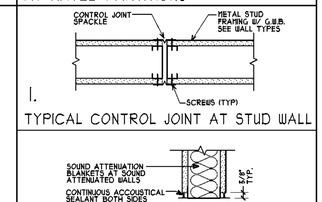
F. TYPICAL STUD WALL "T" INTERSECTION AT RATED PARTITIONS



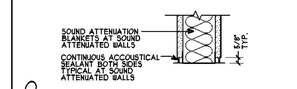
G. TYPICAL STUD WALL "T" INTERSECTION AT NON-RATED PARTITIONS



H. TYPICAL STUD WALL CORNER AT RATED/NON-RATED PARTITIONS

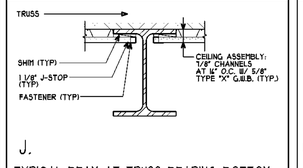


I. TYPICAL CONTROL JOINT AT STUD WALL

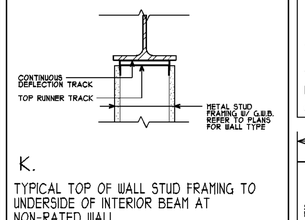


Q. TYPICAL BASE OF STUD WALL

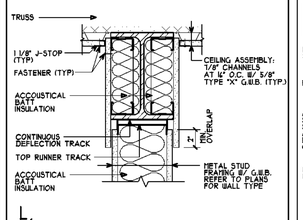
INTERIOR BEAM



J. TYPICAL BEAM AT TRUSS BEARING BOTTOM OF TRUSS CEILING ASSEMBLEY

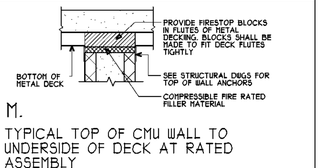


K. TYPICAL TOP OF WALL STUD FRAMING TO UNDERSIDE OF INTERIOR BEAM AT NON-RATED WALL

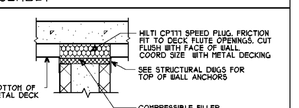


L. TYPICAL TOP OF WALL STUD FRAMING TO UNDERSIDE OF INTERIOR BEAM AT NON-RATED WALL W/ ACOUSTICAL BATT INSULATION.

INTERIOR CMU

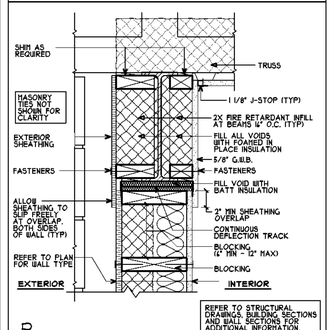


M. TYPICAL TOP OF CMU WALL TO UNDERSIDE OF DECK AT RATED ASSEMBLY



N. TYPICAL TOP OF CMU WALL TO UNDERSIDE OF DECK AT NON-RATED ASSEMBLY

EXTERIOR WALL



P. TYPICAL TOP OF EXTERIOR WALL AT BEAM.

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4640 FAX (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

EMERGENCY SERVICE FACILITIES

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

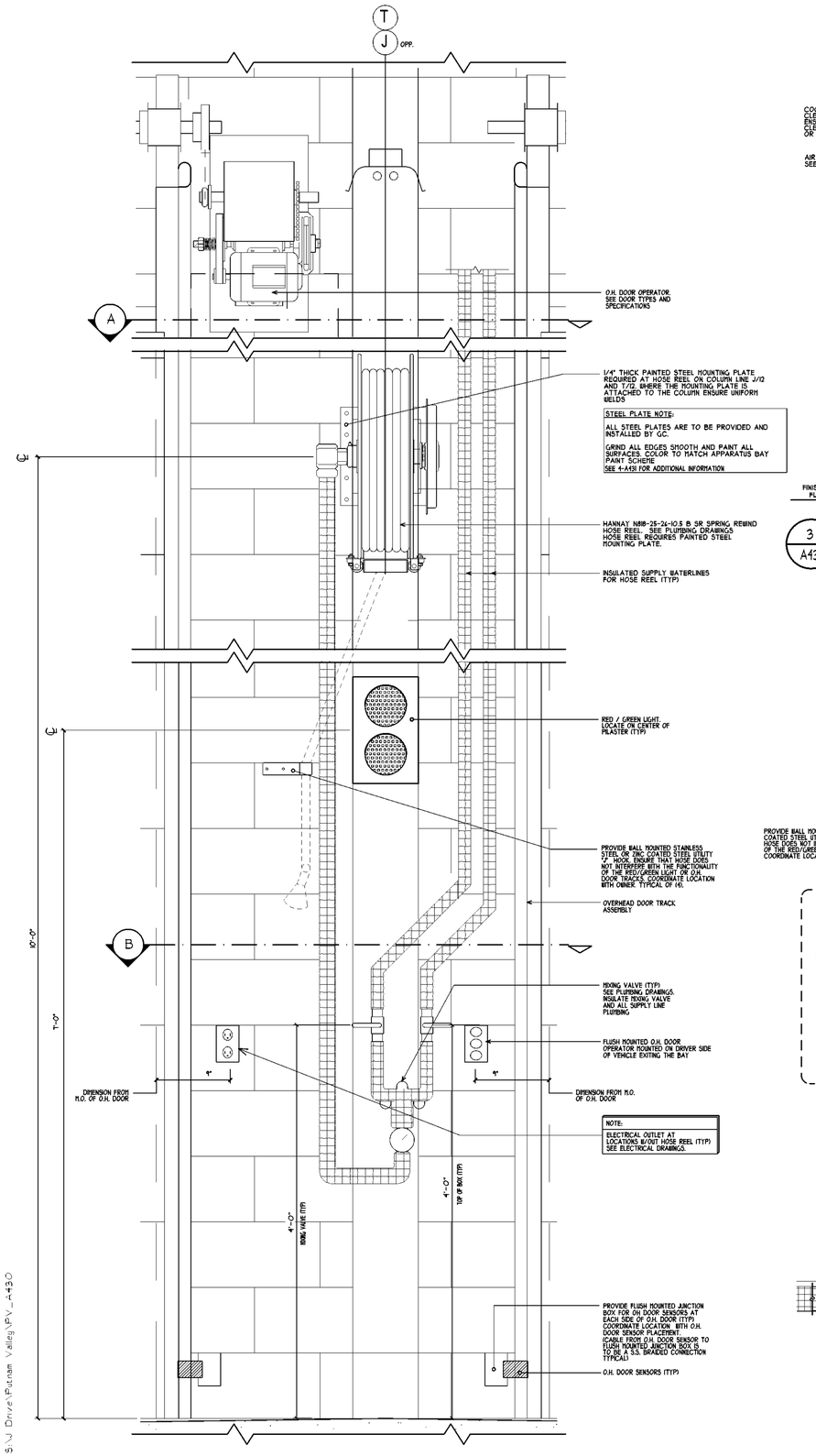
MISC DETAILS

SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

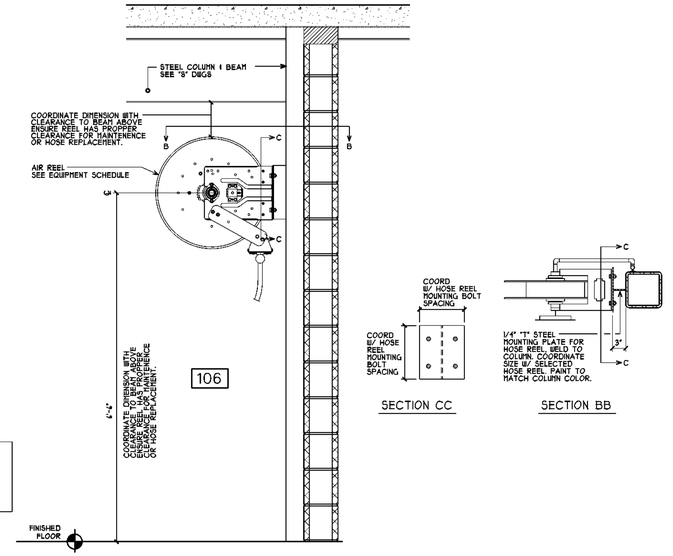
A430

PLOT TIME: 3:00 PM

DWG ID: S:\J Drive\Putnam Valley\Rv_A430

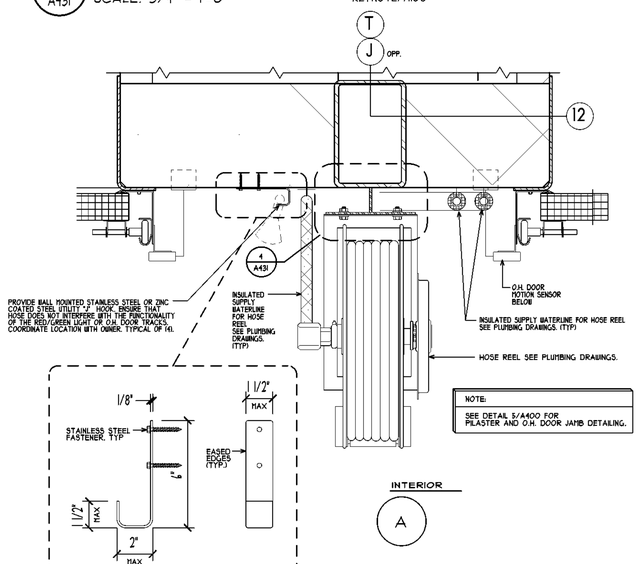


1 / A431 INTERIOR ELEVATION AT O.H. DOOR
SCALE: 1 1/2" = 1'-0"

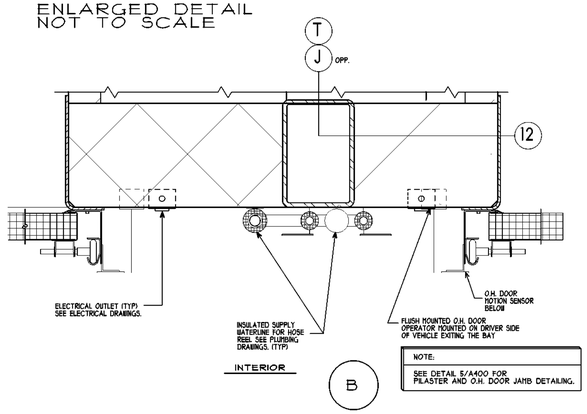


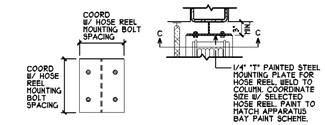
3 / A431 AIR REEL MOUNT IN WORK ROOM (106)
SCALE: 3/4" = 1'-0"

KEYNOTE/A100

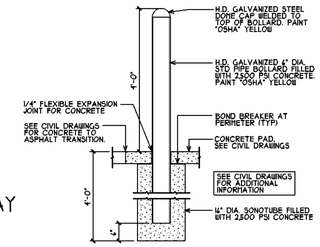


ENLARGED DETAIL
NOT TO SCALE

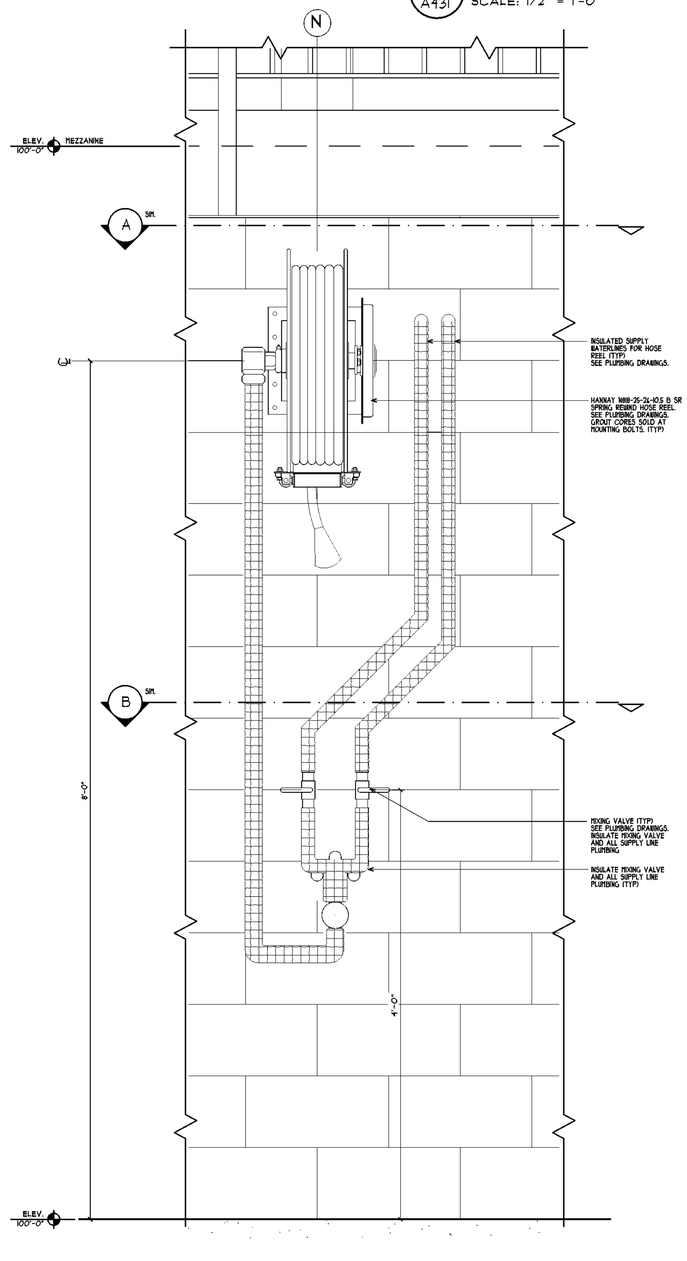




4 / A431 HOSE REEL MOUNT IN APPARATUS BAY
SCALE: 3/4" = 1'-0" 1/A431



5 / A431 EXTERIOR BOLLARD DETAIL
SCALE: 1/2" = 1'-0" A100



2 / A431 HOSE REEL INTERIOR ELEVATION AT EAST APPARATUS BAY WALL
SCALE: 1 1/2" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4410 FAX (845) 225-4717
CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955
GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

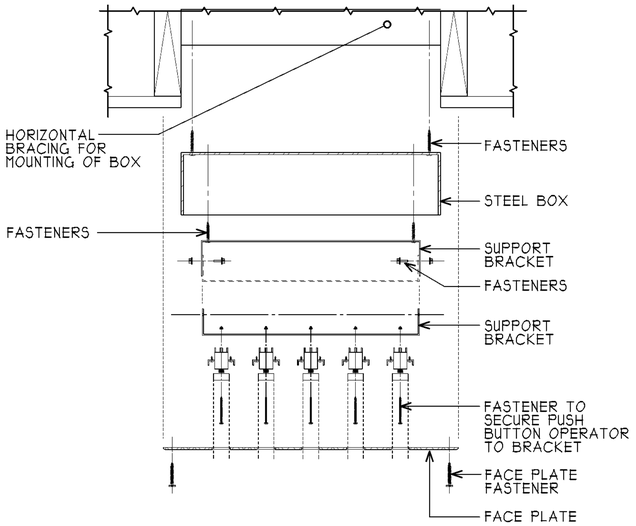
MISC DETAILS

SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

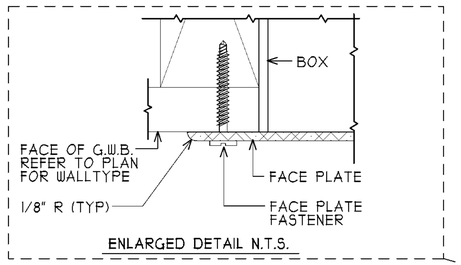
A431

PLOT TIME: 3:01 PM

DWG ID#: S:\J Drive\Putnam Valley\Rv_4430



ASSEMBLY DIAGRAM N.T.S.



ENLARGED DETAIL N.T.S.

FABRICATOR TO ENSURE ALL PARTS WILL FUNCTION PROPERLY AFTER ASSEMBLY. FABRICATOR IS RESPONSIBLE FOR DIMENSIONS, TOLERANCES AND MOVEMENT FOR PROPER FUCTION OF DESIGN INTENT. ARCHITECT IS PROVIDING DESIGN INTENT WITH APPROXIMATE DIMENSIONS.

BOX:
HOFFMAN SCREW COVER PULL BOX (TYPE 1) 14 1/2x8x4

STEEL BOX FASTENERS: SELF TAPPING

FACE PLATE:
1/8" THICK BRUSHED STAINLESS STEEL WITH A FINISHED EDGE BEVEL. DIMENSIONS AS SHOWN ON DETAILS

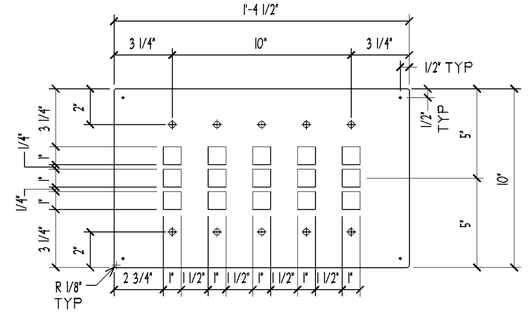
FACE PLATE FASTENERS:
PANCAKE HEAD SCREWS. (FINISH MUST MATCH FACE PLATE) MAX HEAD DIA OF .423

PUSH BUTTON OPERATOR:
RAYNOR PBS-3 OR APPROVED EQUAL

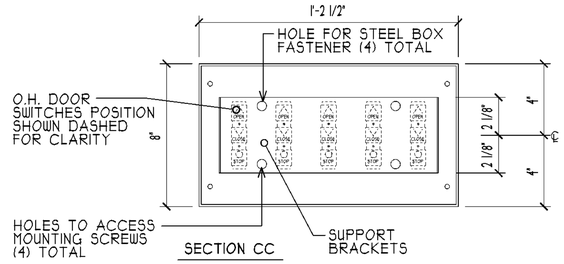
LED INDICATOR LIGHTS:
DOOR OPEN AND DOOR CLOSED LIGHTS ARE 24 VOLT LIGHTS WITH LED BULBS. SIZE: 16MM FLAT INDICATOR LIGHT. THE INDICATOR LIGHTS WILL BE RED & GREEN. SEE DETAILS FOR PLACEMENT. REQUIRES (2) CONDUCTOR LOCKING CONNECTOR FOR EACH INDICATOR LIGHT.

LABELS:
ANNODIZED ALUMINUM 1/2"h x 2"w x 1/32" thick MATT-NON REFLECTIVE W/ FLAT FINISH. SILVER GRAPHICS WITH BLACK BACKGROUND COORDINATE INSCRIPTION AND PLACEMENT ON PANELS WITH OWNER.

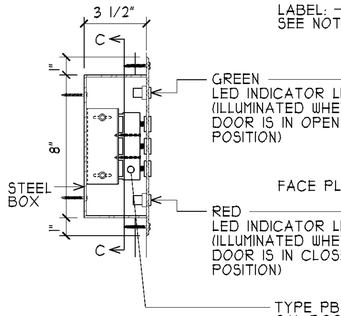
2 / A432 WIRING DETAIL
SCALE: N.T.S.



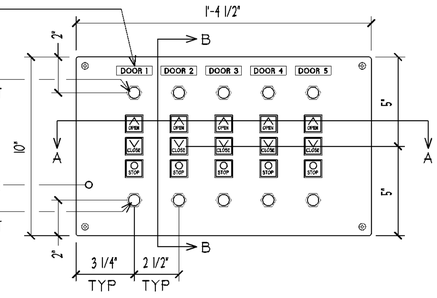
STAINLESS STEEL FACE PLATE



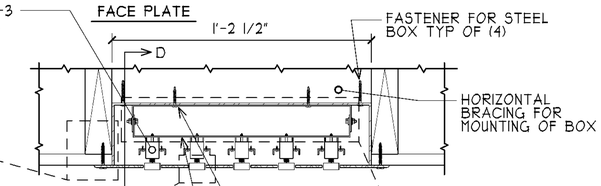
SECTION CC



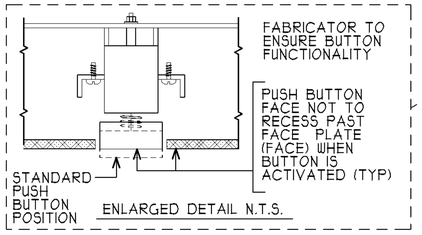
SECTION BB



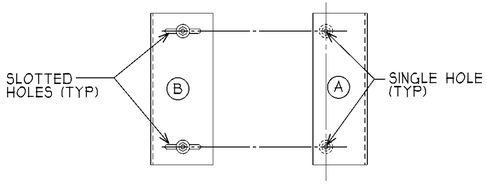
FACE PLATE



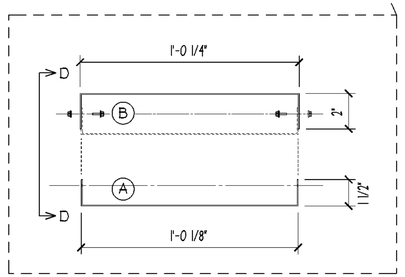
SECTION AA



ENLARGED DETAIL N.T.S.



SECTION DD
NOT TO SCALE



SUPPORT BRACKETS
1/16" THICK STEEL MIN.

1 / A432 O.H. DOOR CONTROL PANEL
SCALE: 3" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-7490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

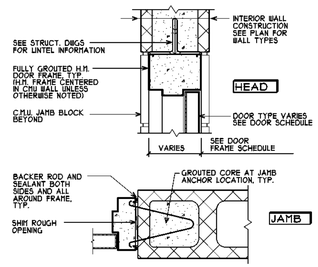
O.H. DOOR CONTROL PANEL

SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A432

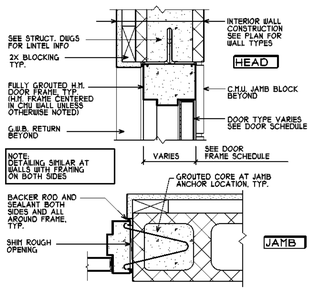
PLOT TIME: 3:01 PM

DWG ID#: S:\J Drive\Putnam Valley\PV_A432



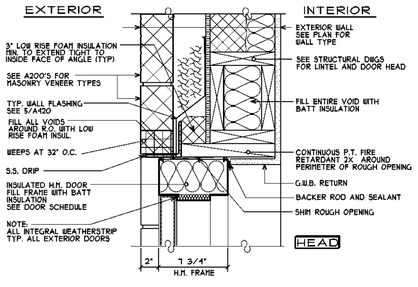
1 / A500 TYP. H.M. DOOR FRAME AT INTERIOR MASONRY WALLS

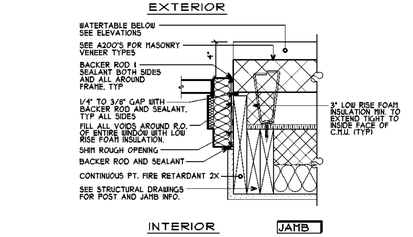
SCALE: 1 1/2" = 1'-0"



2 / A500 TYP. H.M. DOOR AT INT. MASONRY WALLS W/ FURRING & G.W.B. ON SIDE

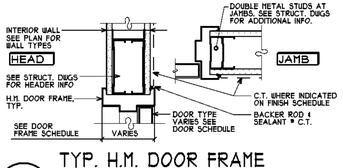
SCALE: 1 1/2" = 1'-0"





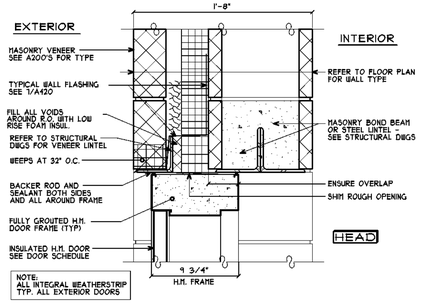
3 / A500 TYP. H.M. DOOR FRAME AT EXT. STUD WALL W/ MASONRY VENEER

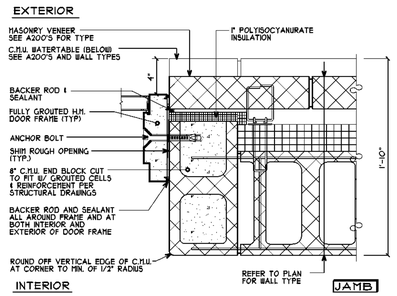
SCALE: 1 1/2" = 1'-0"

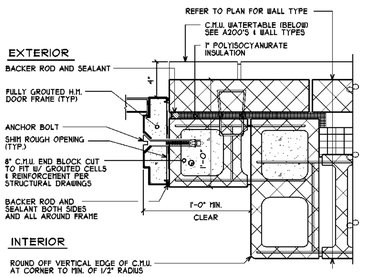


4 / A500 TYP. H.M. DOOR FRAME AT INTERIOR STUD WALLS

SCALE: 1 1/2" = 1'-0"

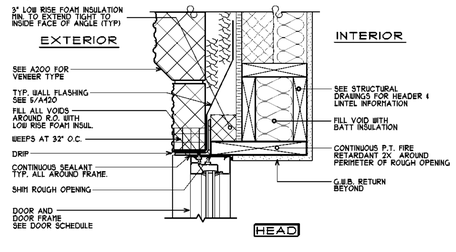


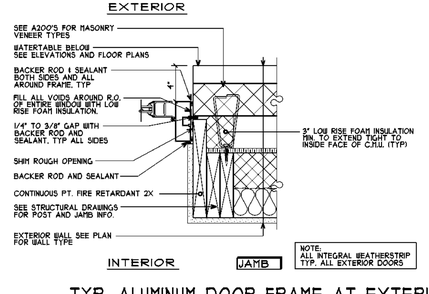




5 / A500 TYP. H.M. DOOR FRAME AT EXTERIOR DOUBLE WYTHE MASONRY WALLS

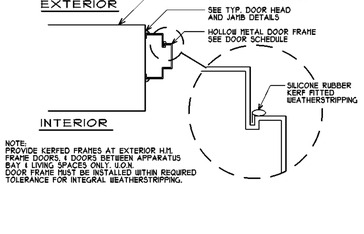
SCALE: 1 1/2" = 1'-0"





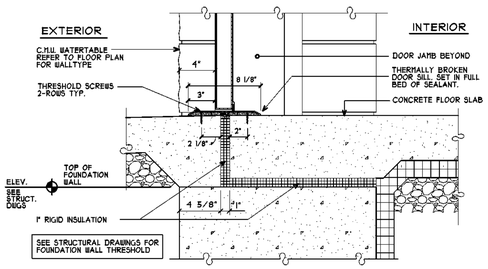
6 / A500 TYP. ALUMINUM DOOR FRAME AT EXTERIOR STUD WALL W/ MASONRY VENEER

SCALE: 1 1/2" = 1'-0"



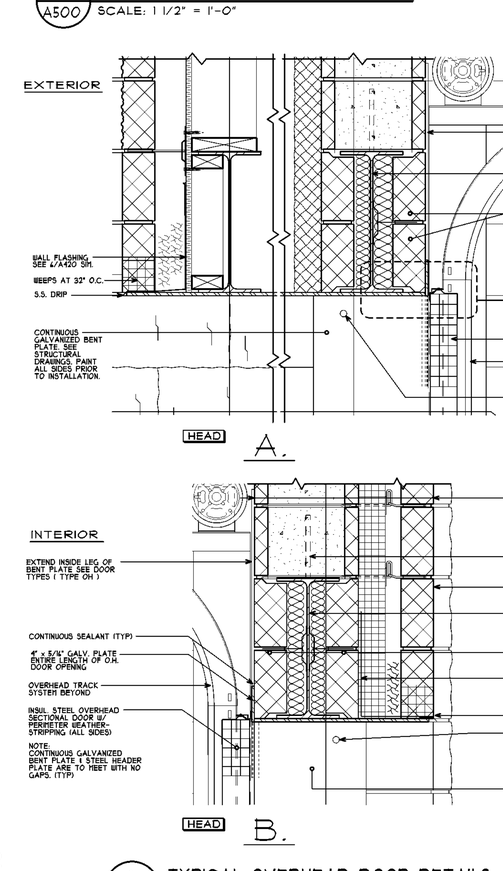
7 / A500 TYP. KERF WEATHERSTRIPPING

SCALE: 1 1/2" = 1'-0"



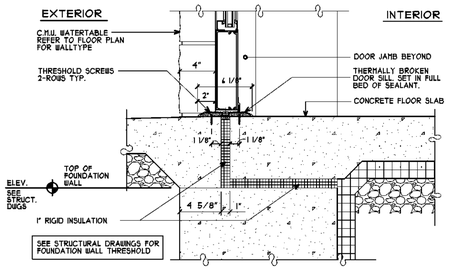
8A / A500 EXTERIOR DOOR THRESHOLD

SCALE: 1 1/2" = 1'-0"



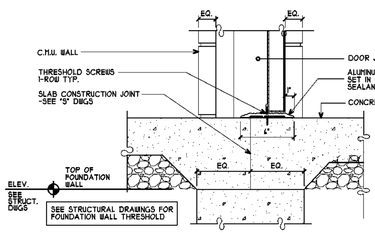
9 / A500 TYPICAL OVERHEAD DOOR DETAILS

SCALE: 1 1/2" = 1'-0"



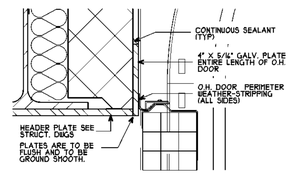
8B / A500 EXTERIOR AL. DOOR THRESHOLD

SCALE: 1 1/2" = 1'-0"



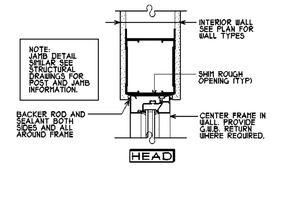
8C / A500 INTERIOR DOOR THRESHOLD

SCALE: 1 1/2" = 1'-0"



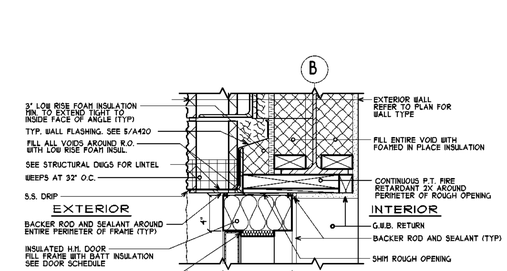
9A / A500 O.H. DOOR DETAIL

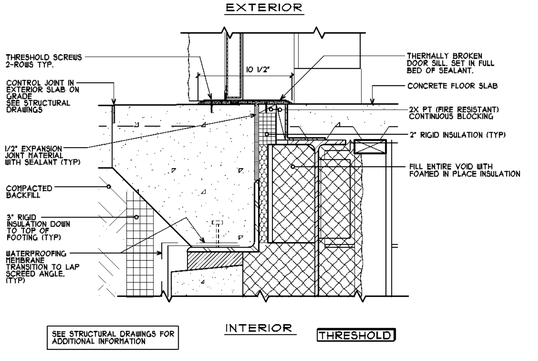
SCALE: NOT TO SCALE



10 / A500 ALUM DOOR FRAME INTERIOR WALL

SCALE: 1 1/2" = 1'-0"





11 / A500 ROOM 201 (DOOR 201A) HEAD AND THRESHOLD DETAIL

SCALE: 1 1/2" = 1'-0"

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9410 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		

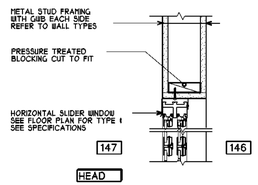
DOOR DETAILS

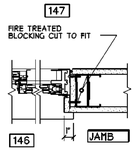
SCALE: AS NOTED
DWG. BY: JDA/JDC
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

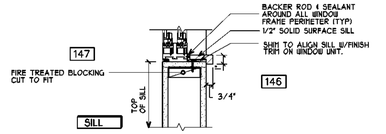
A500

PLOT TIME: 3:15 PM

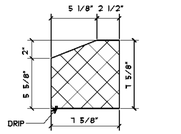
DWG ID#: S:\Drive\Putnam Valley\PV_A500



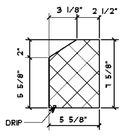




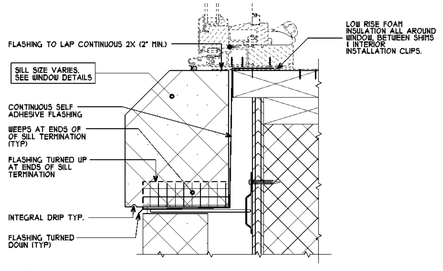
10 / A501 SERVICE WINDOW WI2 AT RADIO ROOM
SCALE: 1 1/2" = 1'-0"



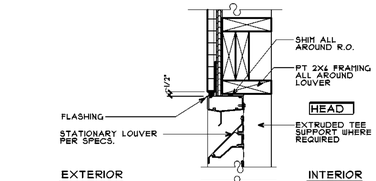
4 / A501 WINDOW SILL
SCALE: 1 1/2" = 1'-0" 1/A501



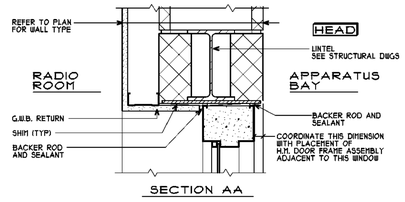
5 / A501 WINDOW SILL
SCALE: 1 1/2" = 1'-0" 2/A501



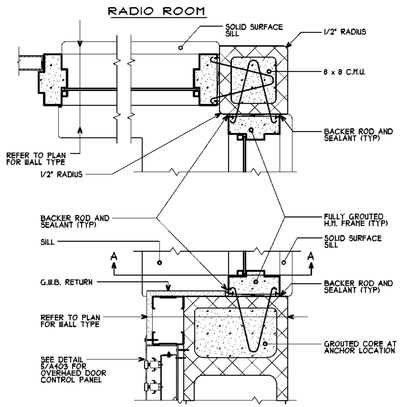
6 / A501 WINDOW SILL FLASHING
SCALE: N.T.S. 1 & 2/A501

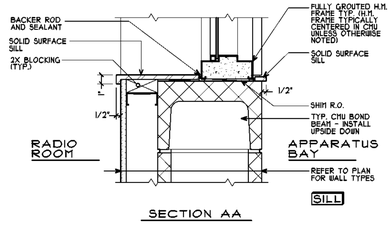


9 / A501 LOUVER DETAIL @ EIFS
SCALE: 1 1/2" = 1'-0" 8 & 9/A105



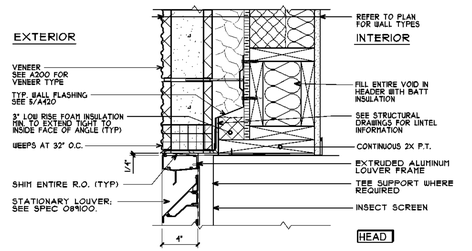
SECTION AA





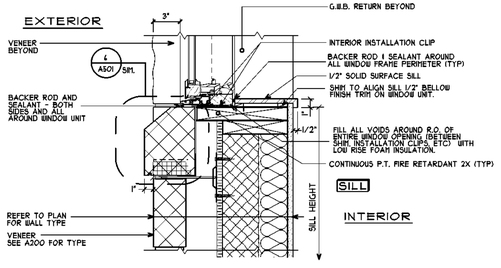
SECTION AA

3 / A501 TYP. H.M. VISION PANEL AT ROOM 102
SCALE: 1 1/2" = 1'-0" 1/A100

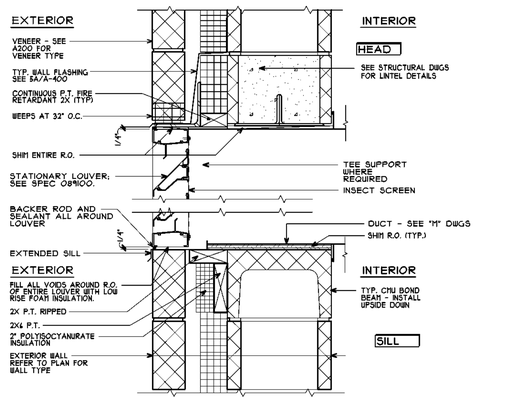


8 / A501 LOUVER DETAIL @ WT 15 (LV-2)
SCALE: 1 1/2" = 1'-0" 1/A101

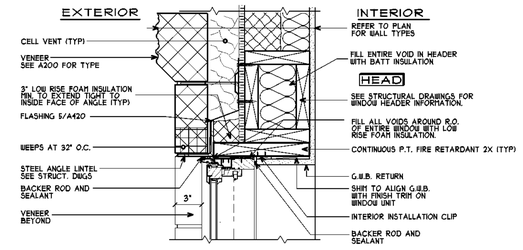
SEE 1/A501 FOR HEAD AND JAMB DETAILS (SIM.)

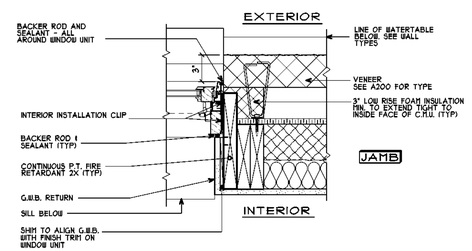


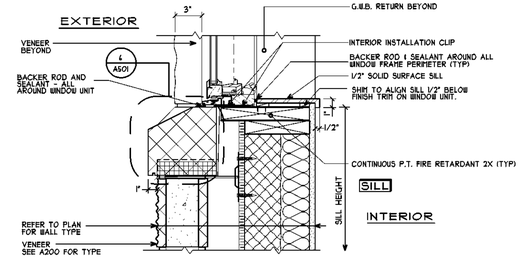
2 / A501 WINDOW AT STUD/VENEER WALL
SCALE: 1 1/2" = 1'-0" 1/A102



7 / A501 LOUVER DETAIL @ WT 9 (LV-1)
SCALE: 1 1/2" = 1'-0" 1/A101







1 / A501 WINDOW AT STUD/VENEER WALLS
SCALE: 1 1/2" = 1'-0" 1/A100;1/A101;1/A102

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4640 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

WINDOW DETAILS

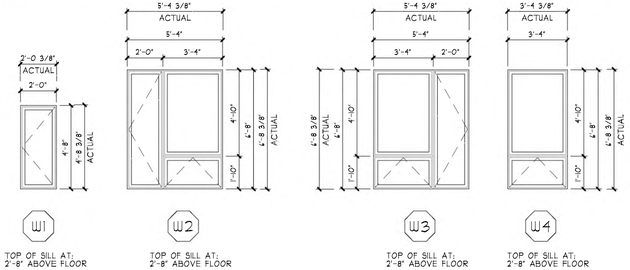
SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

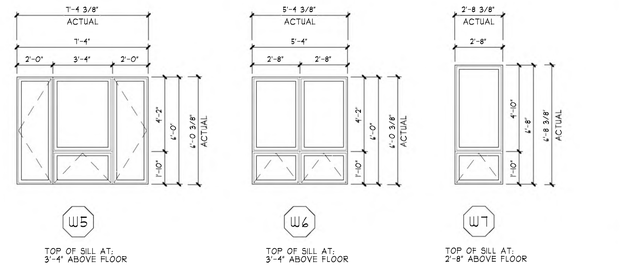
A501

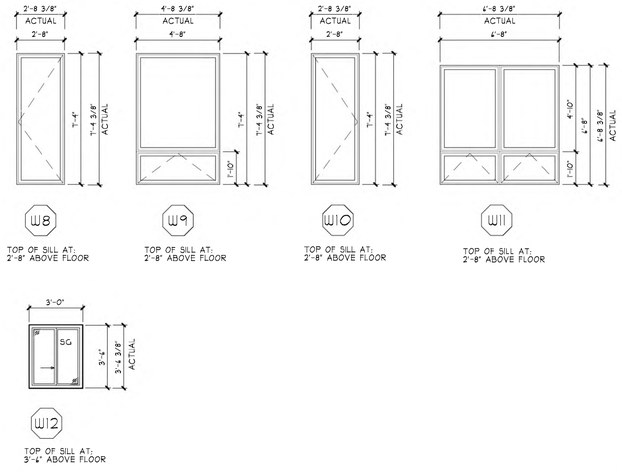
PLOT TIME: 10:56 AM

DWG ID#: S:\2 Drive\Putnam Valley\PV_A500

WINDOW TYPES





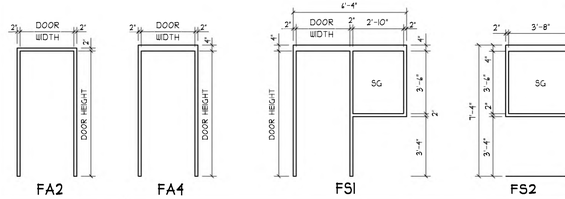


WINDOW NOTES

1. BASIS OF DESIGN: WEATHER SHIELD PREMIUM SERIES
2. ALL FRAMES TO BE ALUMINUM CLAD WOOD U.O.N.
3. ALL OPERABLE SASH TO BE PROVIDED WITH SCREENS
4. MULLED UNITS ARE TO HAVE FACTORY APPLIED MULLION
5. DIMENSIONS SHOWN ARE NOMINAL MASONRY OPENINGS U.O.N.
6. GLASS WITHIN 18" OF DOORS AND FLOORS SHALL BE TEMPERED
7. INSTALLATION CONTRACTOR TO SUBMIT PROPOSED DETAILS TO ACHIEVE AIR TIGHT INSTALLATION

DOOR FRAME TYPES

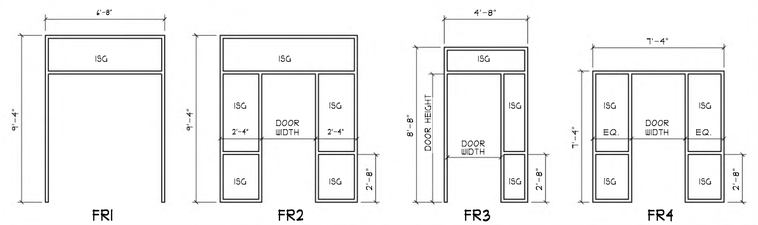
HOLLOW METAL



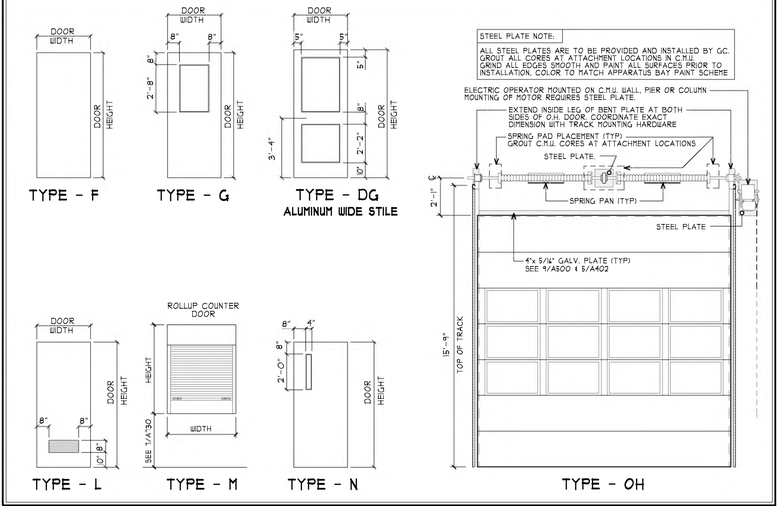
DOOR FRAME SCHEDULE

DESCRIPTION	FRAME SIZE
INTERIOR C.M.U.	
8" C.M.U.	5 3/4" WIDE
12" C.M.U.	7 3/4" WIDE
EXTERIOR C.M.U.	
WALL TYPE 9	9 3/4" WIDE

ALUMINUM



DOOR TYPES



DOOR SCHEDULE

NO.	FROM	TO	DOOR NOMINAL SIZE WIDTH	DOOR NOMINAL SIZE HEIGHT	DOOR MATERIAL	DOOR Finish	DOOR TYPE	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME Finish	FRAME HEAD	FRAME JAMB	FRAME SILL	RATING (HRS.)	HARDWARE SET	ACCESS CONTROL	MAG. HOLD OPEN	FUNCTION	REMARKS	
101	101	EXT	36"	86"	ALUM	Pre-F	G	ISG	FA2	ALUM	Pre-F	6/A500	6/A500	8B/A500	---	2	YES	---		Weatherstrip	101
101A	101	EXT	14'-0"	14'-0"	INSUL. STL	Pre-F	OH	ISG	---	STL	---	9/A500	9/A500		---	20	---	---		OH Door	101A
101B	101	EXT	14'-0"	14'-0"	INSUL. STL	Pre-F	OH	ISG	---	STL	---	9/A500	9/A500		---	20	---	---		OH Door	101B
101C	101	EXT	14'-0"	14'-0"	INSUL. STL	Pre-F	OH	ISG	---	STL	---	9/A500	9/A500		---	20	---	---		OH Door	101C
101D	101	EXT	14'-0"	14'-0"	INSUL. STL	Pre-F	OH	ISG	---	STL	---	9/A500	9/A500		---	20	---	---		OH Door	101D
101E	101	EXT	14'-0"	14'-0"	INSUL. STL	Pre-F	OH	ISG	---	STL	---	9/A500	9/A500		---	20	---	---		OH Door	101C
102	101A	102	36"	84"	HM	PNT	G	SG	FS1	HM	PNT	2/A500 3/A501	2/A500 3/A501	3/A501	---	11	YES	---	HM Door Frame & Vision Window	Weatherstrip at door	102
102A	102	101							FS2	HM	PNT	3/A501	3/A501	3/A501	---	---	---	---	HM Vision Window	MISSION PANEL - NO DOOR	102A
103	101	103	36"	84"	HM	PNT	F	---	FA4	HM	PNT	1/A500	1/A500		---	18	---	---	Privacy	Undercut 3/4"	103
104	101	104	36"	84"	HM	PNT	F	---	FA4	HM	PNT	1/A500	1/A500		---	14	---	---	Classroom	Undercut 3/4"	104
105	105	101	28"	62"	HM	PNT	F	---	FA2	HM	PNT	1/A500	1/A500		---	16	---	---	Passage		105
106	106	101	38"/38"	84"	HM	PNT	L	---	FA4	HM	PNT	1/A500	1/A500		---	7	YES	---		Louver in both doors	106
107	107	101	36"/16"	84"	HM	PNT	F/L	---	FA4	HM	PNT	1/A500	1/A500		---	16	---	---	Passage	Active Leaf Type L	107
108	108	101	36"/16"	84"	HM	PNT	F/L	---	FA4	HM	PNT	1/A500	1/A500		---	16	---	---	Passage	Active Leaf Type L	108
109	109	101	36"/16"	84"	HM	PNT	F/L	---	FA4	HM	PNT	1/A500	1/A500		---	16	---	---	Passage	Active Leaf Type L	109
110	101	110	36"	84"	HM	PNT	F	---	FA4	HM	PNT	1/A500	1/A500		---	16	---	---	Passage		110
111	111	101	38"/38"	84"	HM	PNT	F	---	FA4	HM	PNT	1/A500	1/A500		---	5	YES	---			111
112	112	101	36"/16"	84"	HM	PNT	F	---	FA4	HM	PNT	1/A500	1/A500		---	16	---	---	Passage		112
113	113	101	36"/16"	84"	HM	PNT	F	---	FA4	HM	PNT	1/A500	1/A500		---	16	---	---	Passage		113
114	114	101	38"/38"	84"	HM	PNT	F	---	FA4	HM	PNT	1/A500	1/A500		---	16	---	---	Passage		114
114A	114	EXT	36"	84"	ALUM	Pre-F	F	---	FA4	HM	PNT	5/A500	5/A500	8A/A500	---	3.1	---	---	Passage	Weatherstrip	114A
115	115	101	36"	84"	HM	PNT	F	---	FA4	HM	PNT	1/A500	1/A500		---	16	---	---	Passage		115
115A	115	EXT	36"	84"	ALUM	Pre-F	F	---	FA4	HM	PNT	5/A500	5/A500	8A/A500	---	3.1	---	---	Passage	Weatherstrip	115A
116	116	101	36"	84"	HM	PNT	F	---	FA4	HM	PNT	1/A500	1/A500		---	11	YES	---			116
117	117	123	36"	80"	WD	Pre-F	G	SG	FA2	HM	PNT	4/A500	4/A500		1/2	16	---	---	Passage		117
117A	117	EXT	36"	86"	ALUM	Pre-F	G	ISG	FA2	ALUM	Pre-F	6/A500	6/A500	8B/A500	---	3	YES	---		Weatherstrip	117A
118	118	EXT	36"	86"	ALUM	Pre-F	DG	ISG	FR3	ALUM	Pre-F	6/A500	6/A500	8B/A500	---	2	YES	---		Weatherstrip	118
118A	136	118	36"	80"	WD	Pre-F	G	---	FA2	HM	PNT	4/A500	4/A500			11	---	---	Push-pull		118A
118B	118A	118	18"	80"	WD	Pre-F	F	---	FA2	HM	PNT	4/A500	4/A500			16	---	---	Passage		118B
119	123	119	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	4/A500	4/A500			16	---	---	Passage		119
120	120	122	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	4/A500	4/A500		1/2	11	YES	---			120
121	123	121	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	4/A500	4/A500			18	---	---	Privacy	Undercut 3/4"	121
122	122	EXT	36"	86"	ALUM	Pre-F	F	---	FA2	ALUM	Pre-F	6/A500	6/A500	8B/A500	---	3	YES	---		Weatherstrip	122
123	101	123	16'/36"	84"	HM	PNT	F	---	FA4	HM	PNT	2/A500	2/A500		---	16	---	---	Passage	Weatherstrip	123
123A	123	122	36"	80"	WD	Pre-F	N	---	FA2	HM	PNT	4/A500	4/A500		1/2	17	---	YES	Passage		123A
126	126	122	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	4/A500	4/A500		1/2	11	YES	---			126
127	123	127	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	4/A500	4/A500			18	---	---	Privacy	Undercut 3/4"	127
128	128	123	36"	84"	HM	PNT	N	SG	FA4	HM	PNT	2/A500	2/A500		1 HR	10	---	---	Exit device		128
128A	128	101	36"	84"	HM	PNT	N	SG	FA4	HM	PNT	2/A500	2/A500		1 HR	10	---	---	Exit device	Weatherstrip	128A
129	129	123	36"/16"	80"	WD	Pre-F	G/F	SG	FA2	HM	PNT	4/A500	4/A500			5	YES	---		Active Leaf Type G	129
130	129	130	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	4/A500	4/A500			15	---	---	Storeroom		130
201	201	EXT	36'/36"	86"	ALUM	Pre-F	F	---	FA2	HM	PNT	5/A500	5/A500	11/A500	---	15	---	---	Storeroom	Weatherstrip	201
201A	201	208	44"	84"	HM	PNT	F	---	FA4	HM	PNT	1/A500	1/A500		1HR	15	---	---	Storeroom	Weatherstrip	201A
202	202	201	36"	80"	HM	PNT	F	---	FA2	HM	PNT	4/A500	4/A500		---	15	---	---	Storeroom		202
203	203	208	38"	84"	HM	PNT	N	---	FA4	HM	PNT	1/A500	1/A500			11	YES				203
204	204	204	36"	84"	HM	PNT	N	---	FA4	HM	PNT	2/A500	2/A500		1 HR	16	---	---	Passage	Weatherstrip	204
207	208	207	36"	80"	HM	PNT	F	---	FA2	HM	PNT	4/A500	4/A500		---	15	---	---	Storeroom		207
209	209	208	40'/40"	84"	HM	PNT	F	---	FA4	HM	PNT	1/A500	1/A500		---	15	---	---	Storeroom		209
301	301	EXT	38"/38"	86"	ALUM	Pre-F	DG	ISG	FR1	ALUM	Pre-F	6/A500	6/A500	8B/A500	---	1	YES	---		Weatherstrip	301
302	302	301	38"/38"	86"	ALUM	Pre-F	DG	SG	FR2	ALUM	Pre-F	10/A500			---	1.1	---	---	Push Pull		302
303	302	303	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	19	---	---	Push Pull	Undercut 3/4"	303
304	302	304	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	19	---	---	Push Pull	Undercut 3/4"	304
306	309	306	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			306
307	309	307	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			307
308	309	308	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			308
309	309	302	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			309
309A	309	314	72"	See 8/A730	S.S.	Pre-F	M	---	Pre-F	S.S.	Pre-F	8/A730	8/A730	8/A730	---	20	---	---	rolling counter door		309A
309B	309	314	36"/36"	80"	WD	Pre-F	N	SG	FA2	HM	PNT	1/A500	1/A500		---	9	---	---	Push Pull + deadbolt		309B
309C	309	EXT	36"	86"	ALUM	Pre-F	G	ISG	FA2	ALUM	Pre-F	6/A500	6/A500	11/A500 Sim.	---	3	YES	---		Weatherstrip	309C
310	310	EXT	36"	86"	ALUM	Pre-F	G	ISG	FA2	ALUM	Pre-F	6/A500	6/A500	11/A500 Sim.	---	3	YES	---		Weatherstrip	310
311	314	311	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			311
311A	311	314	72"	See 8/A730	S.S.	Pre-F	M	---	Pre-F	S.S.	Pre-F	8/A730	8/A730	8/A730	---	20	---	---	rolling counter door		311A
312	312	314	36'/36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	16	---	---	Passage		312
313	314	313	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			313
314	314	302	36'/36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	6	YES	YES		180 degree swing	314
314A	314	310	36"	80"	WD	Pre-F	G	SG	FA2	HM	PNT	1/A500	1/A500		---	11	---	---	Push Pull		314A
315	315	314	36"	80"	WD	Pre-F	G	SG	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			315
315A	315	EXT	36"	86"	ALUM	Pre-F	DG	ISG	FR2	ALUM	Pre-F	6/A500	6/A500	8/A412	---	3	YES	---		Weatherstrip	315A
316	316	320	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	165	---	---	Passage		316
316A	316A	316	20"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			316A
316B	316B	316	20"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			316B
317	317	314	36'/36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	8	---	---	Passage		317
318	320	318	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	18	---	---	Privacy	Undercut 3/4"	318
319	320	319	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	18	---	---	Privacy	Undercut 3/4"	319
320	320	302	36"	80"	WD	Pre-F	G	SG	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			320
320A	320	330	36"	80"	WD	Pre-F	G	SG	FA2	HM	PNT	1/A500	1/A500		---	2.1	---	---	Push Pull		320A
322	320	322	36"	84"	WD	Pre-F	N	---	FA4	HM	PNT	2/A500	2/A500		1 HR	16	---	---	Passage	Weatherstrip	322
323	320	323	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			323
324	320	324	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	16	---	---	Passage		324
325	320	325	36"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			325
326	320	326	36"	80"	WD	Pre-F	G	SG	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			326
327	320	327	36"	80"	WD	Pre-F	G	SG	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			327
327A	327A	327	24"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	16	---	---	Passage		327A
328	320	328	36"	80"	WD	Pre-F	G	SG	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			328
328A	328A	328	24"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	16	---	---	Passage		328A
329	320	329	36"	80"	WD	Pre-F	G	SG	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			329
329A	320	329	36"	80"	WD	Pre-F	G	SG	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			329A
330	330	EXT	36"	86"	ALUM	Pre-F	G	ISG	FA2	ALUM	Pre-F	6/A500	6/A500	11/A500 Sim.	---	2	YES	---		Weatherstrip	330
331	320	331	36"	80"	WD	Pre-F	G	SG	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			331
332	320	332	36"	80"	WD	Pre-F	G	SG	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			332
332A	332A	332	24"	80"	WD	Pre-F	F	---	FA2	HM	PNT	1/A500	1/A500		---	11	YES	---			332A

NOTES:

1. LIGHT SWITCH AT DOUBLE DOORS SHALL BE LOCATED ON ACTIVE LEAF SIDE ON PUSH SIDE INACTIVE LEAF SIDE ON PULL SIDE. COORDINATE LOCATION WITH OWNER
2. METAL FRAMES HOLDING GLASS ON DOOR TYPE G & N ARE TO BE PAINTED TO MATCH DOOR FRAME COLOR
3. WEATHER STRIPPING TO BE KERF WEATHER STRIPPING. SEE DETAIL 7/A500 AND SPECIFICATION SECTION 08710
4. ALL DOORS TO HAVE STOPS
5. UNDERCUT DOORS WHERE MARBLE THRESHOLD, ALUMINUM THRESHOLD ARE SPECIFIED
6. SEE DRAWING A800 FOR THRESHOLD DETAILS
7. COORDINATE JAMB STUD FRAMING AND REQUIRED CUT OUT FOR INSTALLATION OF ELECTRIC STRIKE
8. ALL METAL DOOR FRAMES TO BE INSTALLED IN MASONRY AND EXTERIOR WALLS SHALL HAVE ALL HIDDEN SURFACES FIELD PAINTED WITH AN AN ADDITIONAL COAT OF PRIMER FROM FLOOR LEVEL TO 4'-0" A.F.F. PRIOR TO INSTALLATION

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4490 FAX (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
COHOES, NY 12047
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

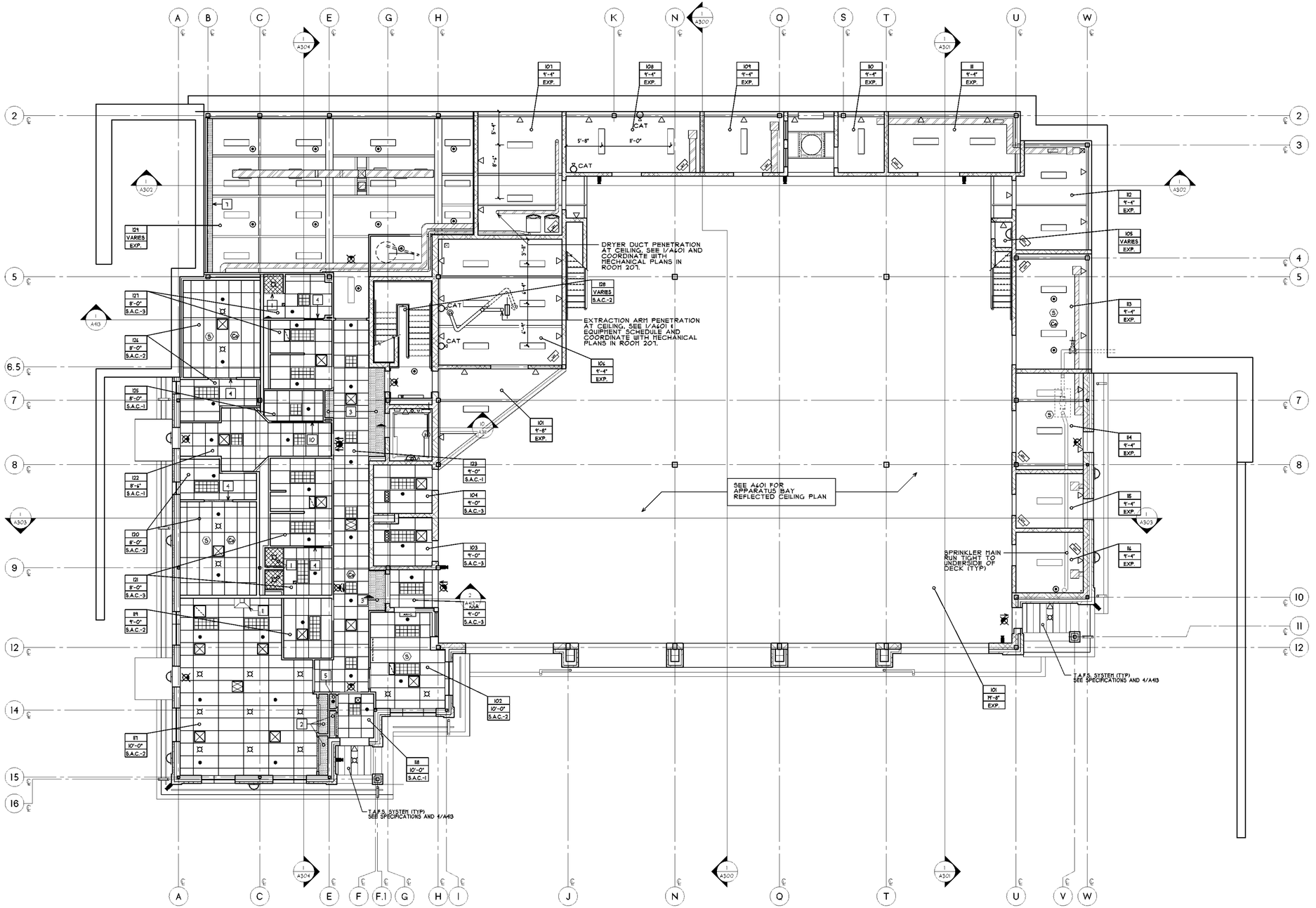
DOOR SCHEDULE, DOOR FRAME TYPES, DOOR TYPES & WINDOW TYPES

SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A502

PLOT TIME: 3:19 PM

DWG ID#: S:\V Drive\Putnam Valley\PV_A500



1st FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

REFLECTED CEILING LEGEND

GENERAL:

- 000 / 8'-0" / SAC — ROOM NUMBER; CEILING HEIGHT; CEILING MATERIAL
- G.W.B. CEILING
- S.A.C.-1 ACT CEILING 2X2 CENTER IN ROOM (TYP.)
- S.A.C.-2 ACT CEILING 2X4 CENTER IN ROOM (TYP.)
- S.A.C.-3 M.R. CEILING 2X4 CENTER IN ROOM (TYP.)

LIGHTING:

- 2'x4' LAY-IN
- 2'x2' LAY-IN
- SURFACE MOUNT OR PENDANT MOUNT LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
- LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS
- UNDER COUNTER LIGHT FIXTURE
- WALL MOUNTED FIXTURE
- RECESSED DOWN LIGHT
- EXIT LIGHT (FILL INDICATES LETTERED SIDE) (ARROW INDICATES DIRECTION)

ME&P:

- CLG. DIFFUSER GRILLE 2'X2'
- EXHAUST GRILLE SEE MECHANICAL DWGS FOR SIZES
- PLENUM RETURN AIR GRILLE SEE MECHANICAL DWGS FOR SIZES
- SEE "M" DRAWINGS
- DUCTLESS SPLIT HEAT PUMP SEE MECHANICAL DRAWINGS
- UNIT HEATER SEE MECHANICAL DRAWINGS
- EXPOSED SPRINKLER HEAD
- RECESSED SPRINKLER HEAD
- SIDE WALL SPRINKLER HEAD SEE SPRINKLER DRAWINGS
- DROP SPRINKLER HEAD SEE SPRINKLER DRAWINGS
- COMBINATION COMPRESSED AIR DROP AND ELECTRIC POWER DROP. SEE PLUMBING AND ELECTRICAL DRAWINGS. FIELD VERIFY LOCATION WITH OWNER (TYP.)
- ELECTRIC POWER DROP SEE ELECTRICAL DRAWINGS (FIELD VERIFY LOCATION W/ OWNER (TYP.)
- CAT — COMPRESSED AIR WALL MOUNTED TAP (SEE PLUMBING DRAWINGS) (FIELD VERIFY LOCATION W/ OWNER (TYP.)
- S — SMOKE DETECTOR (SEE ELECTRICAL DRAWINGS)
- H — HEAT DETECTOR (SEE ELECTRICAL DRAWINGS)
- CEILING FAN
- CO — CARBON MONOXIDE DETECTOR (SEE ELECTRICAL DRAWINGS)
- S — SPEAKER SEE ELECTRICAL DRAWINGS FOR EXTENT OF INSTALLATION
- FUTURE SECURITY CAMERA SEE ELECTRICAL DRAWINGS FOR EXTENT OF INSTALLATION.

GENERAL NOTES

1. SEE BUILDING SECTIONS AND ELEVATIONS FOR LIGHT FIXTURE HEIGHTS, U.O.N.
2. REFER TO ME&P AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.

RCP KEY NOTES

1. SEE 1/A120 FOR SHOWER SOFFIT NOTES
2. DISPLAY CASE. SEE DETAIL 9/A130
3. G.W.B. SOFFIT @ 8'-4"
4. G.W.B. SOFFIT @ 7'-6"
5. G.W.B. SOFFIT @ 9'-0"
6. G.W.B. SOFFIT @ 8'-8"
7. G.W.B. SOFFIT @ 8'-0"
8. G.W.B. SOFFIT @ 8'-6"
9. PROJECTOR MOUNT SEE A100'S AND EQUIPMENT SCHEDULE.
10. G.W.B. SOFFIT @ 7'-4"
11. PROVIDE A S.S. DUCTWORK EXTENSION TO ABOVE THE S.A.C. OF THE SAME MATERIAL AS THE RANGE HOOD DUCT.
12. 22X30 INSULATED ACCESS HATCH. COORDINATE WITH TRUSS LOCATION. SEE SPECIFICATIONS
13. G.W.B. SOFFIT @ 9'-4" BELOW S.A.C. HEIGHT. 3 1/2" METAL STUDS WITH 5/8" SHEETROCK (TYP.) OPENING TO BE SHEETROCK UP TO UNDERSIDE OF TRUSS SHEATHING AT ACCESS HATCH. COORDINATE ALL DIMENSIONS WITH ACCESS HATCH PLACEMENT AND TRUSS LOCATION.

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9410 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

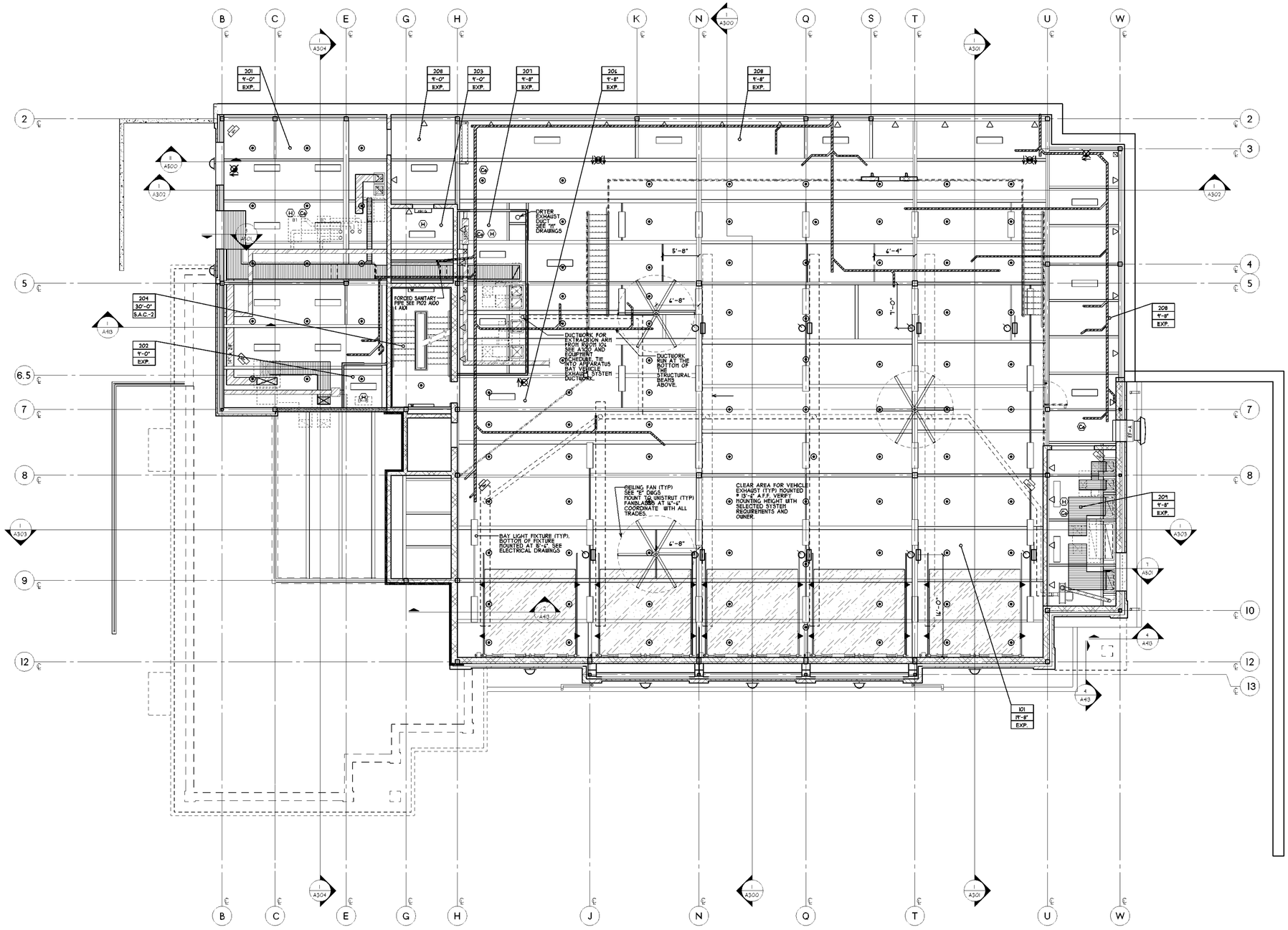
1st FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A600

PLOT TIME: 3:21 PM

DWG ID#: S:\J Drive\Putnam Valley\FV_A600



2nd FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

CALLED NORTH

NORTH

2nd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	206	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MECHANICAL 2
205	ELEVATOR		

REFLECTED CEILING LEGEND

GENERAL:

- 000 / 8'-0" / SAC — ROOM NUMBER; CEILING HEIGHT; CEILING MATERIAL
- G.W.B. CEILING
- S.A.C.-1 — ACT CEILING 2X2 CENTER IN ROOM (TYP)
- S.A.C.-2 — ACT CEILING 2X4 CENTER IN ROOM (TYP)
- S.A.C.-3 — M.R. CEILING 2X4 CENTER IN ROOM (TYP)

LIGHTING:

- 2'x4' LAY-IN
- 2'x2' LAY-IN
- SURFACE MOUNT OR PENDANT MOUNT LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
- LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- UNDER COUNTER LIGHT FIXTURE
- WALL MOUNTED FIXTURE
- RECESSED DOWN LIGHT
- EXIT LIGHT (FILL INDICATES LETTERED SIDE) (ARROW INDICATES DIRECTION)

MEP:

- CLG. DIFFUSER GRILLE 2'x2'
- EXHAUST GRILLE SEE MECHANICAL DWGS FOR SIZES
- PLENUM RETURN AIR GRILLE SEE MECHANICAL DWGS FOR SIZES
- SEE "M" DRAWINGS
- DUCTLESS SPLIT HEAT PUMP SEE MECHANICAL DRAWINGS
- UNIT HEATER SEE MECHANICAL DRAWINGS
- EXPOSED SPRINKLER HEAD
- RECESSED SPRINKLER HEAD
- SIDE WALL SPRINKLER HEAD SEE SPRINKLER DRAWINGS
- DROP SPRINKLER HEAD SEE SPRINKLER DRAWINGS
- COMBINATION COMPRESSED AIR DROP AND ELECTRIC POWER DROP. SEE PLUMBING AND ELECTRICAL DRAWINGS. FIELD VERIFY LOCATION WITH OWNER (TYP)
- ELECTRIC POWER DROP SEE ELECTRICAL DRAWINGS (FIELD VERIFY LOCATION W/ OWNER (TYP)
- CAT — COMPRESSED AIR WALL MOUNTED TAP (SEE PLUMBING DRAWINGS). (FIELD VERIFY LOCATION W/ OWNER (TYP)
- (S) SMOKE DETECTOR (SEE ELECTRICAL DRAWINGS)
- (H) HEAT DETECTOR (SEE ELECTRICAL DRAWINGS)
- CEILING FAN
- (CO) CARBON MONOXIDE DETECTOR (SEE ELECTRICAL DRAWINGS)
- (S) SPEAKER SEE ELECTRICAL DRAWINGS FOR EXTENT OF INSTALLATION
- FUTURE SECURITY CAMERA SEE ELECTRICAL DRAWINGS FOR EXTENT OF INSTALLATION.

GENERAL NOTES

1. SEE BUILDING SECTIONS AND ELEVATIONS FOR LIGHT FIXTURE HEIGHTS, U.O.N.
2. REFER TO MEP AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.

RCP KEY NOTES

1. SEE 1/A120 FOR SHOWER SOFFIT NOTES
2. DISPLAY CASE. SEE DETAIL 9/A730
3. G.W.B. SOFFIT @ 8'-4"
4. G.W.B. SOFFIT @ 7'-6"
5. G.W.B. SOFFIT @ 9'-0"
6. G.W.B. SOFFIT @ 8'-8"
7. G.W.B. SOFFIT @ 8'-0"
8. G.W.B. SOFFIT @ 11'-6"
9. PROJECTOR MOUNT SEE A700'S AND EQUIPMENT SCHEDULE.
10. G.W.B. SOFFIT @ 7'-4"
11. PROVIDE A S.S. DUCTWORK EXTENSION TO ABOVE THE S.A.C. OF THE SAME MATERIAL AS THE RANGE HOOD DUCT.
12. 22X30 INSULATED ACCESS HATCH. COORDINATE WITH TRUSS LOCATION. SEE SPECIFICATIONS
13. G.W.B. SOFFIT @ 4" BELOW S.A.C. HEIGHT. 3 1/2" METAL STUDS WITH 5/8" SHEETROCK (TYP.) OPENING TO BE SHEETROCK UP TO UNDERSIDE OF TRUSS SHEATHING AT ACCESS HATCH. COORDINATE ALL DIMENSIONS WITH ACCESS HATCH PLACEMENT AND TRUSS LOCATION.

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9410 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

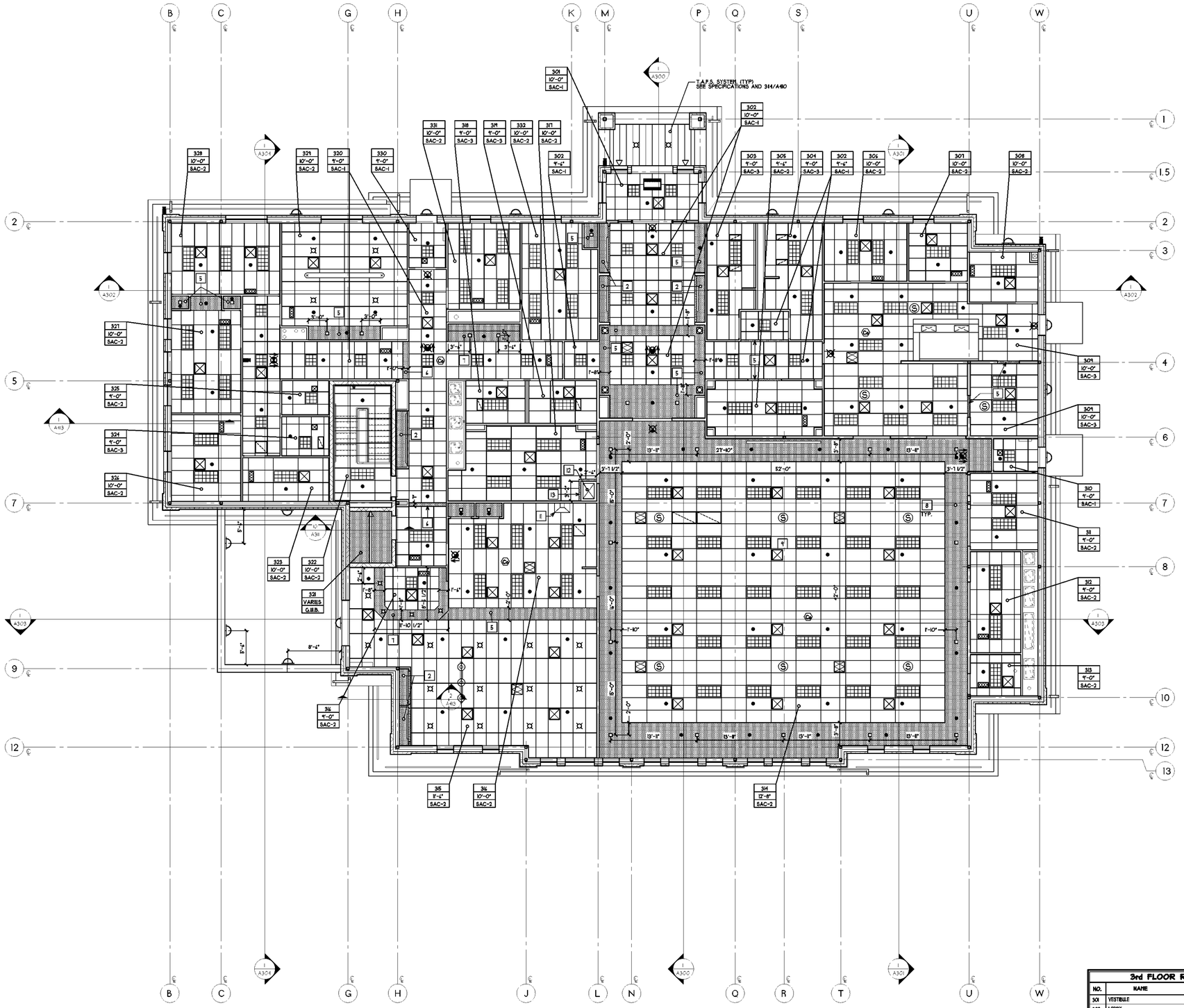
2nd FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A601

PLOT TIME: 3:25 PM

DWG ID#: S:\V Drive\Putnam Valley\FV_A600



3rd FLOOR REFLECTED CEILING PLAN

1 / A602 — SCALE: 1/8" = 1'-0"

CALLED NORTH

NORTH

REFLECTED CEILING LEGEND

GENERAL:

- 000 / 8'-0" / SAC — ROOM NUMBER / CEILING HEIGHT / CEILING MATERIAL
- G.W.B. CEILING
- S.A.C.-1 ACT CEILING 2X2 CENTER IN ROOM (TYP)
- S.A.C.-2 ACT CEILING 2X4 CENTER IN ROOM (TYP)
- S.A.C.-3 M.R. CEILING 2X4 CENTER IN ROOM (TYP)

LIGHTING:

- 2'x4' LAY-IN
- 2'x2' LAY-IN
- SURFACE MOUNT OR PENDANT MOUNT LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
- LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS
- UNDER COUNTER LIGHT FIXTURE
- WALL MOUNTED FIXTURE
- RECESSED DOWN LIGHT
- EXIT LIGHT (FILL INDICATES LETTERED SIDE) (ARROW INDICATES DIRECTION)

MEIP:

- CLG. DIFFUSER GRILLE 2'X2'
- EXHAUST GRILLE SEE MECHANICAL DWGS FOR SIZES
- PLENUM RETURN AIR GRILLE SEE MECHANICAL DWGS FOR SIZES
- SEE "M" DRAWINGS
- DUCTLESS SPLIT HEAT PUMP SEE MECHANICAL DRAWINGS
- UNIT HEATER SEE MECHANICAL DRAWINGS
- EXPOSED SPRINKLER HEAD
- RECESSED SPRINKLER HEAD
- SIDE WALL SPRINKLER HEAD SEE SPRINKLER DRAWINGS
- DROP SPRINKLER HEAD SEE SPRINKLER DRAWINGS
- COMBINATION COMPRESSED AIR DROP AND ELECTRIC POWER DROP. SEE PLUMBING AND ELECTRICAL DRAWINGS. FIELD VERIFY LOCATION WITH OWNER (TYP.)
- ELECTRIC POWER DROP SEE ELECTRICAL DRAWINGS (FIELD VERIFY LOCATION W/ OWNER (TYP.)
- CAT — COMPRESSED AIR WALL MOUNTED TAP (SEE PLUMBING DRAWINGS) (FIELD VERIFY LOCATION W/ OWNER (TYP.)
- (S) SMOKE DETECTOR (SEE ELECTRICAL DRAWINGS)
- (H) HEAT DETECTOR (SEE ELECTRICAL DRAWINGS)
- CEILING FAN
- CARBON MONOXIDE DETECTOR (SEE ELECTRICAL DRAWINGS)
- (S) SPEAKER SEE ELECTRICAL DRAWINGS FOR EXTENT OF INSTALLATION
- FUTURE SECURITY CAMERA SEE ELECTRICAL DRAWINGS FOR EXTENT OF INSTALLATION.

GENERAL NOTES

1. SEE BUILDING SECTIONS AND ELEVATIONS FOR LIGHT FIXTURE HEIGHTS, U.O.N.
2. REFER TO MEIP AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.

RCP KEY NOTES

1. SEE 1/A720 FOR SHOWER SOFFIT NOTES
2. DISPLAY CASE. SEE DETAIL 9/A730
3. G.W.B. SOFFIT @ 8'-4"
4. G.W.B. SOFFIT @ 7'-6"
5. G.W.B. SOFFIT @ 9'-0"
6. G.W.B. SOFFIT @ 8'-8"
7. G.W.B. SOFFIT @ 8'-0"
8. G.W.B. SOFFIT @ 11'-4"
9. PROJECTOR MOUNT SEE A100'S AND EQUIPMENT SCHEDULE.
10. G.W.B. SOFFIT @ 7'-4"
11. PROVIDE A S.S. DUCTWORK EXTENSION TO ABOVE THE S.A.C. OF THE SAME MATERIAL AS THE RANGE HOOD DUCT.
12. 22"X30 INSULATED ACCESS HATCH. COORDINATE WITH TRUSS LOCATION. SEE SPECIFICATIONS
13. G.W.B. SOFFIT @ 4" BELOW S.A.C. HEIGHT. 3 1/2" METAL STUDS WITH 5/8" SHEETROCK (TYP.) OPENING TO BE SHEETROCK UP TO UNDERSIDE OF TRUSS SHEATHING AT ACCESS HATCH. COORDINATE ALL OPENINGS WITH ACCESS HATCH PLACEMENT AND TRUSS LOCATION.

3rd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
301	VESTIBULE	316	CLOSET
302	LOBBY	317	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	318	WOMEN'S LAVATORY
304	PUBLIC WOMENS LAVATORY	319	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STORAGE
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSEKEEPING
310	VESTIBULE	326	ASSISTANT CHIEF'S
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEF'S OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9410 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9999 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

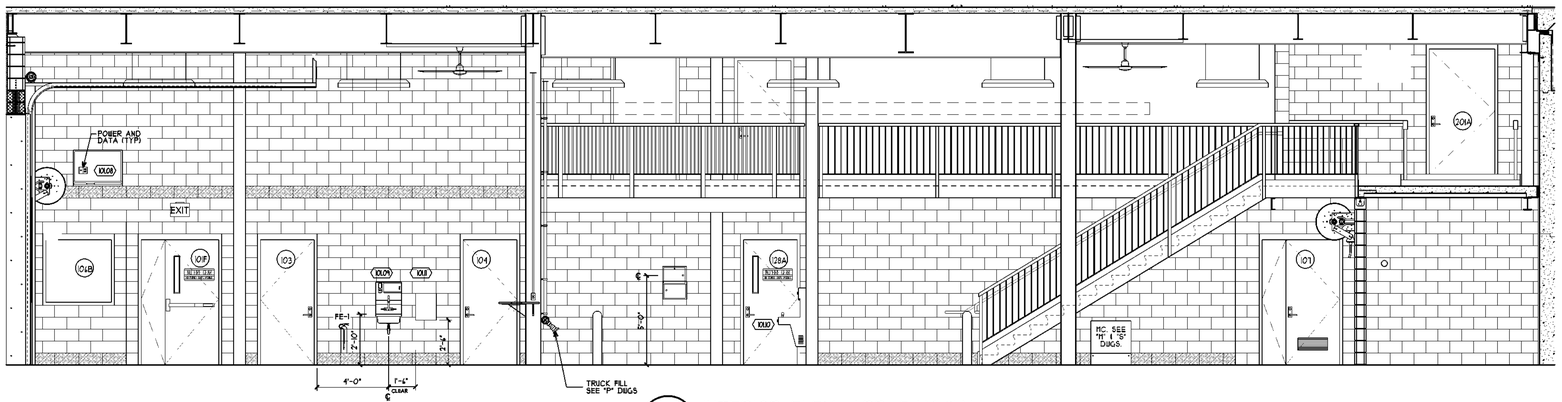
3rd FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

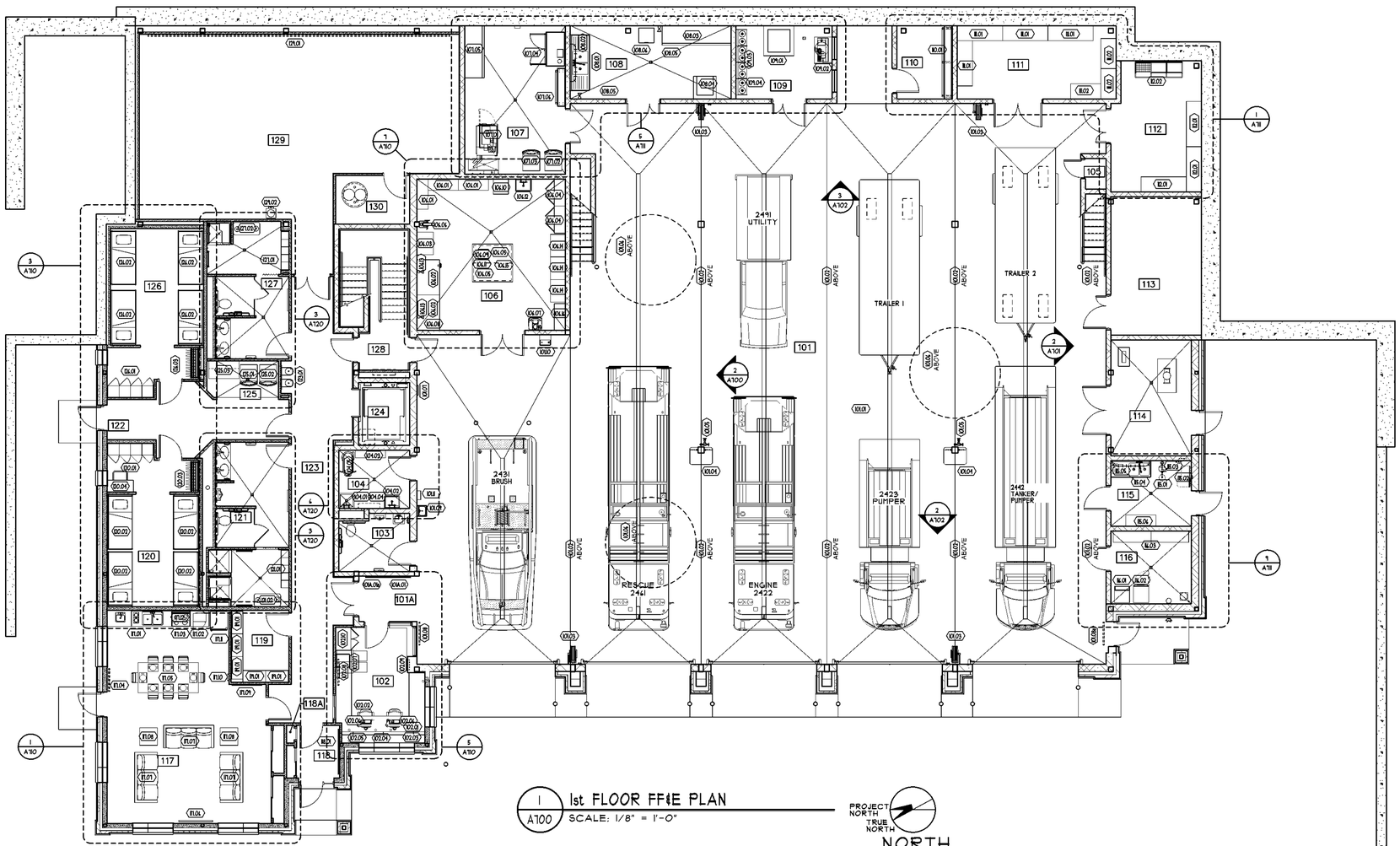
A602

PLOT TIME: 3:24 PM

DWG ID# S:\J Drive\Putnam Valley\PV_A600



2 / A700 INTERIOR ELEV: APP. BAY WALL
SCALE: 1/4" = 1'-0"
A100, A700



1 / A700 1st FLOOR FF&E PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH
NORTH

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

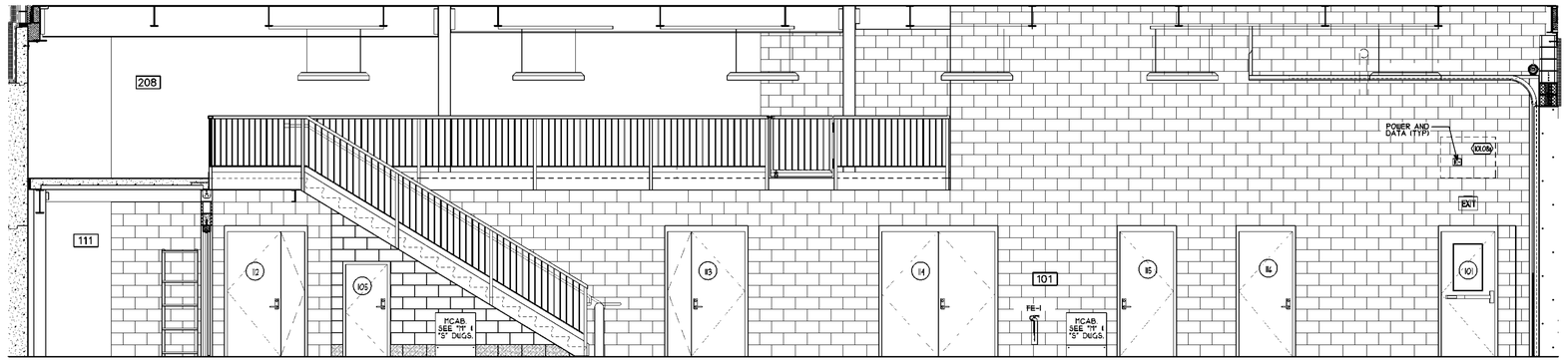
1ST FLOOR FF&E PLAN

SCALE: AS NOTED
DWG. BY: JDC, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

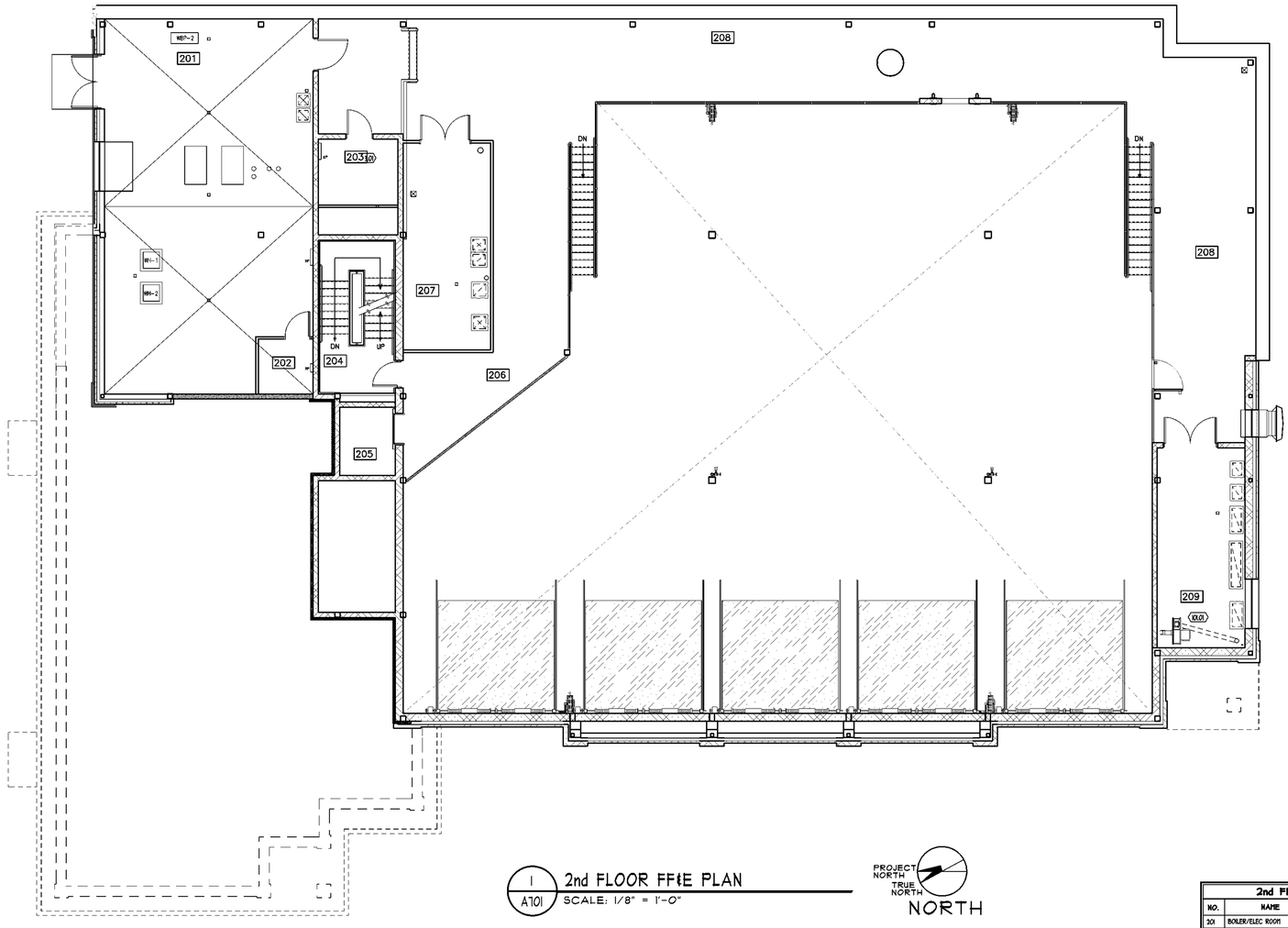
A700

PLOT TIME: 4:07 PM

DWG ID#: S:\J Drive\Putnam Valley\PV_A700



2 / A701 INTERIOR ELEV: APP. BAY WALL
SCALE: 1/4" = 1'-0" A100, A700



1 / A701 2nd FLOOR FF&E PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH
NORTH

2nd FLOOR ROOM LEGEND			
NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	206	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MECHANICAL 2
205	ELEVATOR		

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4490 FAX (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-4944 FAX (518) 584-4955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY		
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

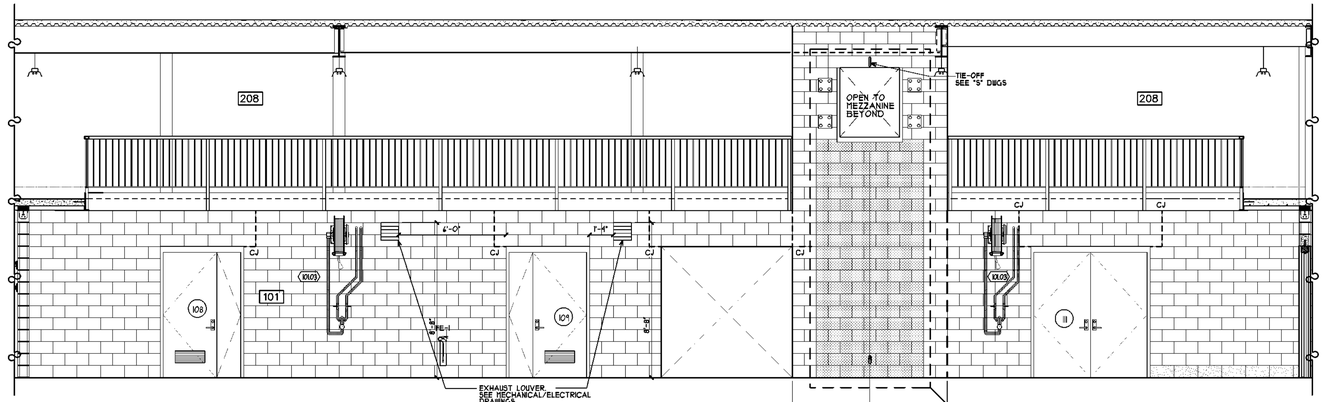
2ND FLOOR FF&E PLAN

SCALE: AS NOTED
DWG. BY: JDC, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

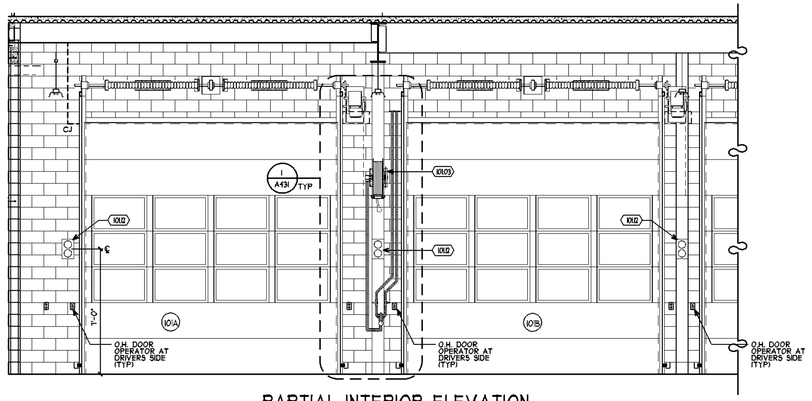
A701

PLOT TIME: 3:33 PM

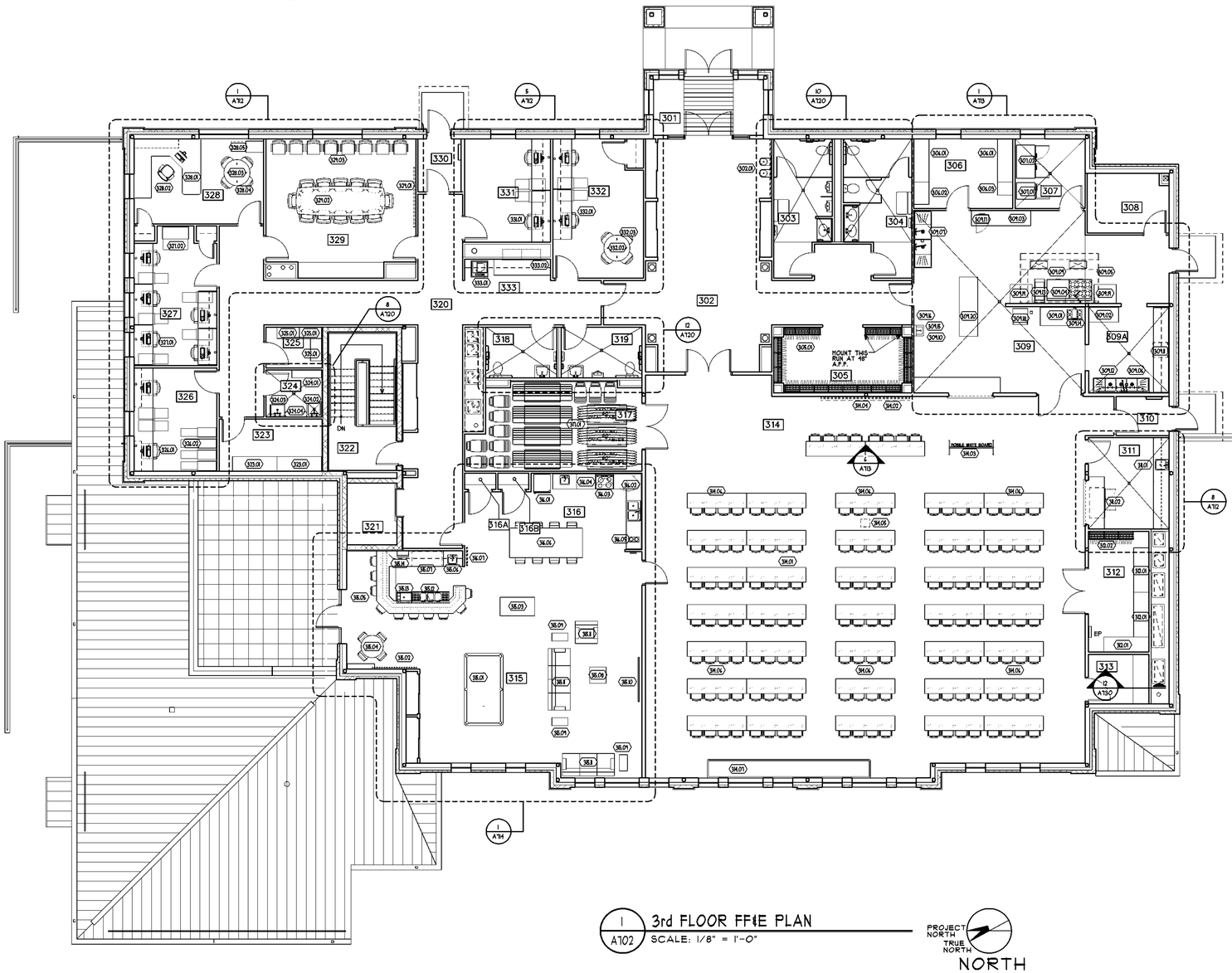
DWG ID#: S:\V Drive\Putnam Valley\PV_A700



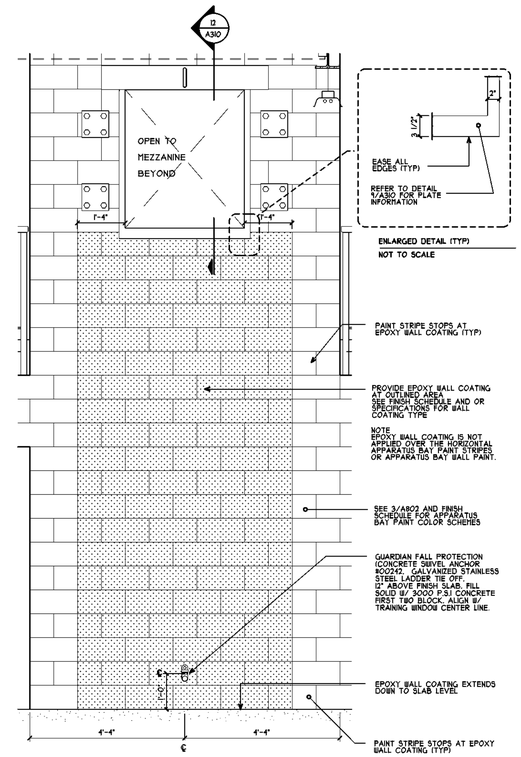
3 A102 INTERIOR ELEV: APP. BAY WALL
SCALE: 1/4" = 1'-0" A100, A100



2 A102 PARTIAL INTERIOR ELEVATION APPARATUS BAY (ROOM 101)
SCALE: 1/4" = 1'-0" A100, A100



1 A102 3rd FLOOR FF&E PLAN
SCALE: 1/8" = 1'-0"



4 A102 LADDER EVOLUTION TRAINING OPENING INTERIOR ELEVATION
SCALE: 1/2" = 1'-0" 1/A100 & 1/A700

3rd FLOOR ROOM LEGEND			
NO.	NAME	NO.	NAME
301	VESTIBULE	348	CLOSET
302	LOBBY	371	TABLE/CHAIR STORAGE
303	PUBLIC MENS LAVATORY	318	WOMENS LAVATORY
304	PUBLIC WOMENS LAVATORY	319	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STORAGE
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSEKEEPING
310	VESTIBULE	326	ASSISTANT CHIEF'S
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEF'S OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4490 FAX (845) 225-4717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

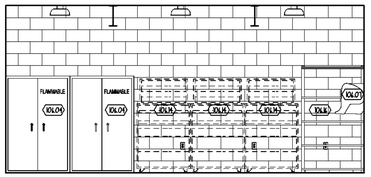
3rd FLOOR FF&E PLAN

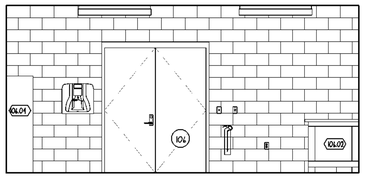
SCALE: AS NOTED
DWG. BY: JDC, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

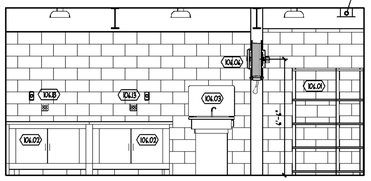
A102

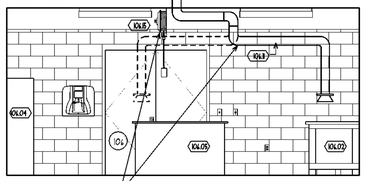
PLOT TIME: 3:34 PM

DWG ID#: S:\J Drive\Putnam Valley\PV_A100

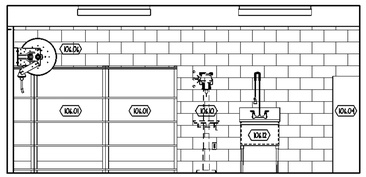




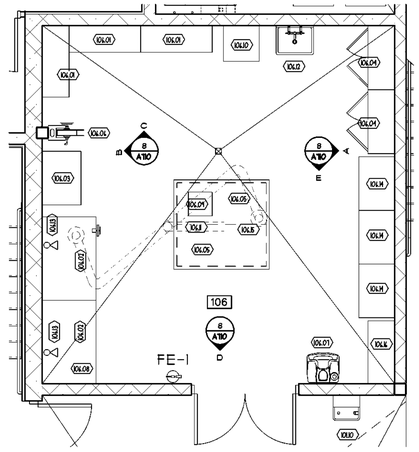




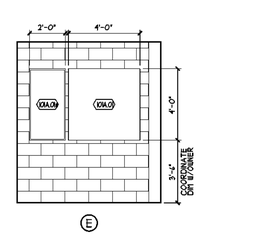
COORDINATE ELECTRICAL REEL (XXL18) PLACEMENT WITH EXHAUST/ENTALLATION SYSTEM (XXL19) ENSURE FULL FUNCTIONALITY FOR BOTH SYSTEMS INTENDED USES. COORDINATE WITH ALL TRADES BEFORE FINAL PLACEMENT.

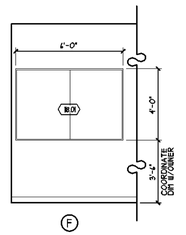


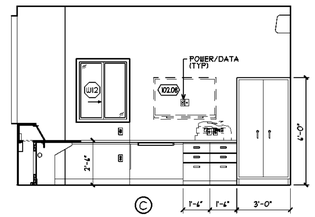
8 / A110 ELEVATIONS (ROOM 106)
SCALE: 1/4" = 1'-0" 1/A110

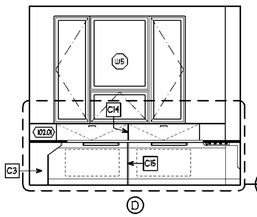


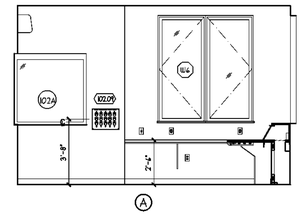
7 / A110 ENLARGED FLOOR PLAN (ROOM 106)
SCALE: 1/4" = 1'-0" 1/A100

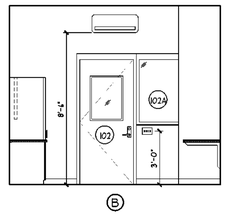




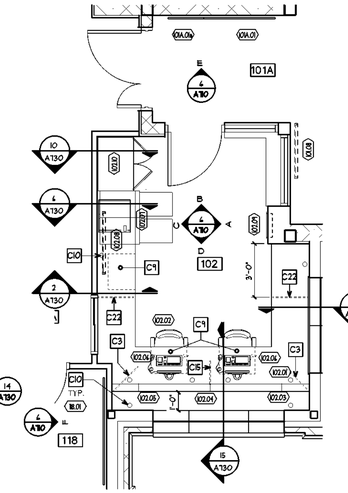




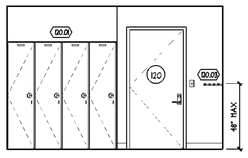


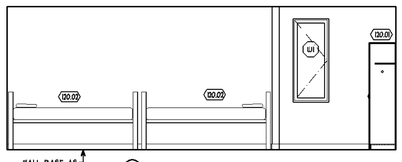


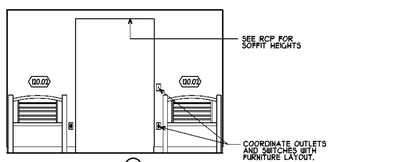
6 / A110 ELEVATIONS RADIO ROOM (102)
SCALE: 1/4" = 1'-0" 5/A110

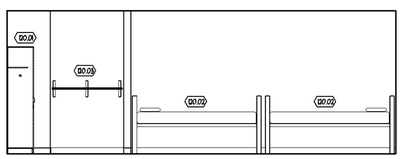


5 / A110 ENLARGED PLAN RADIO ROOM (102)
SCALE: 1/4" = 1'-0" 1/A100

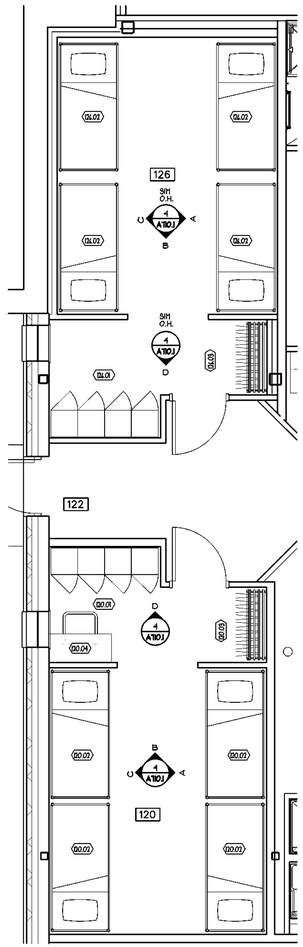




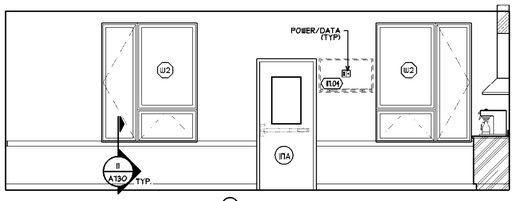


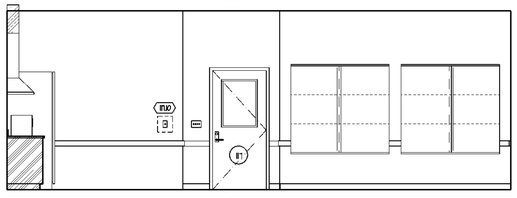


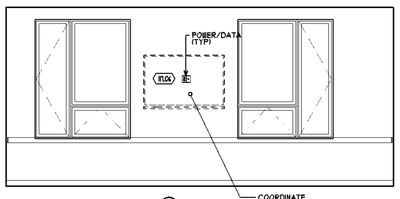
4 / A110 ELEVATIONS (ROOM 120 & 126)
SCALE: 1/4" = 1'-0" 3/A110



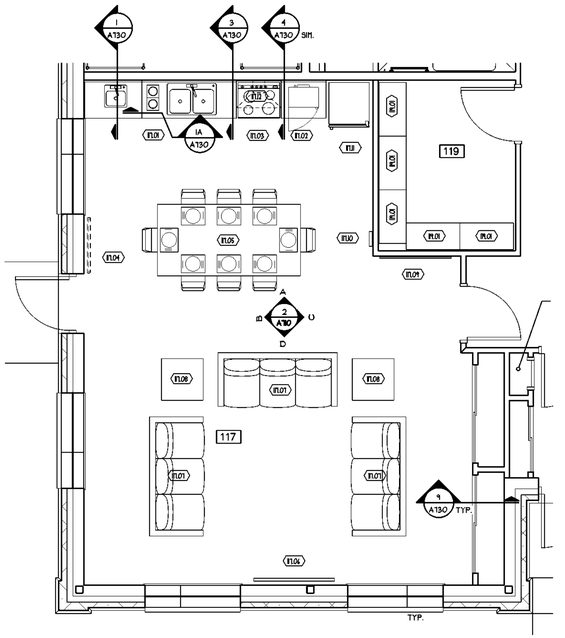
3 / A110 ENLARGED FLOOR PLAN (ROOM 120 & 126)
SCALE: 1/4" = 1'-0" 1/A100







2 / A110 ELEVATIONS (ROOM 117)
TABLES AND CHAIRS NOT SHOWN FOR CLARITY
SCALE: 1/4" = 1'-0" 1/A110



1 / A110 ENLARGED FLOOR PLAN (ROOM 117)
SCALE: 1/4" = 1'-0" 1/A100

CASEWORK GENERAL NOTES

1. SEE SPECIFICATION FOR FFIE DESIGNATIONS. (EXX.X)
2. SEE DWG A130 FOR CASEWORK SECTIONS AND DETAILS.

CASEWORK LEGEND

SB24 — CABINET TYPE; CABINET WIDTH (IN.)

CABINET TYPE:

B	BASE CABINET W/TOP DRAWER, (1) ADJUSTABLE HEIGHT SHELF
BC	CORNER BASE CABINET
SDB	SLIDING DRAWER BASE CABINET, NO DRAWERS
#DB	DRAWER BASE CABINET WITH (#: 2, 3, 4, 5) DRAWERS
SB	SINK BASE W/FALSE DRAWER FRONT, NO SHELVES
SBC	SINK BASE CORNER UNIT W/FALSE DRAWER FRONT, NO SHELVES
TC	TALL CABINET, SEE DWG FOR HEIGHT
BBF	BOX, BOX FILE BASE CABINET
W	WALL CABINET W/ (2) ADJUSTABLE HEIGHT SHELVES
WC	WALL CORNER CABINET W/ (2) ADJUSTABLE HEIGHT SHELVES
WO	OPEN-FRONT WALL CABINET W/ (2) ADJUSTABLE HEIGHT SHELVES

CASEWORK NOTES:

1. ALL COUNTERTOPS TO BE 2'-1" DEEP WITH 4" SIDE AND BACKSPLASH WHERE COUNTERTOPS ABUT WALLS, UNLESS OTHERWISE NOTED.
2. ALL SINKS TO BE CENTERED IN BASE CABINETS UNLESS OTHERWISE NOTED.
3. ALL COUNTERTOPS TO BE SCRIBED TO ADJACENT WALLS.
4. ALL BASE CABINETS TO BE 2'-0" DEEP UNLESS OTHERWISE NOTED.
5. ALL WALL CABINETS TO BE 1'-0" DEEP UNLESS OTHERWISE NOTED.
6. PROVIDE FILLER STRIPS WHERE CABINETS ABUT WALLS AND CORNERS AND WHERE NECESSARY TO ALLOW PROPER OPERATION OF DOORS, DRAWERS AND APPLIANCES.
7. PROVIDE FINISHED END PANELS WHERE CABINET ENDS ARE EXPOSED.
8. TOP SURFACES OF ALL WALL CABINETS THAT ARE NOT TIGHT TO A SOFFIT SHALL HAVE NO GAPS OR VOIDS.
9. COORDINATE LAYOUT OF CABINETS WITH ANY APPLIANCES.
10. PROVIDE ADEQUATE BLOCKING IN ALL WALLS WHERE CABINETS, SHELVING OR EQUIPMENT ARE TO BE MOUNTED.

CASEWORK KEY NOTES

C1	SOLID SURFACE COUNTERTOP W/O BACKSPLASH, SIZE AS SHOWN
C2	SOLID SURFACE COUNTERTOP WITH 4" BACKSPLASH, SIZE AS SHOWN
C3	1 1/2" PLYWOOD SUPPORT BELOW W/ PLASTIC LAMINATE SIDES AND VINYL EDGE MOLD AT FRONT EDGE
C4	NOT USED.
C5	3/4" PLYWOOD SKIRT W/PLASTIC LAMINATE ALL SIDES AND VINYL EDGE MOLD BOTTOM EDGE
C6	18" X 24" METAL SUPPORT BRACKET
C7	PLASTIC LAMINATED WALL CABINET W/ VINYL EDGE MOLD 1 ADJUSTABLE SHELF. NO DOORS.
C8	3" DIA STAINLESS STEEL LEG
C9	PENCIL DRAWER
C10	CABLE GROMMET
C11	3/4" PLYWOOD SHELVES W/PLASTIC LAMINATE AND VINYL EDGE MOLD ON STANDARDS AND BRACKETS
C12	PRIVACY SCREEN
C13	NOT USED.
C14	INTERMEDIATE BRACE FOR UPPER RADIO ROOM COUNTER TOP
C15	RADIO ROOM CONSOLE CENTER SUPPORT-SEE DETAILS

NOTE: SEE OFFICE ELEVATIONS FOR CURRENT COMPONENT LOCATIONS AND OFFICE EQUIPMENT.

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		

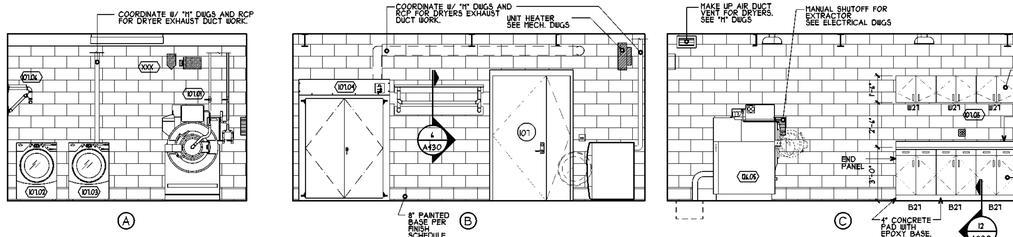
ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS OF FFIE

SCALE: AS NOTED
DWG. BY: JDC, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

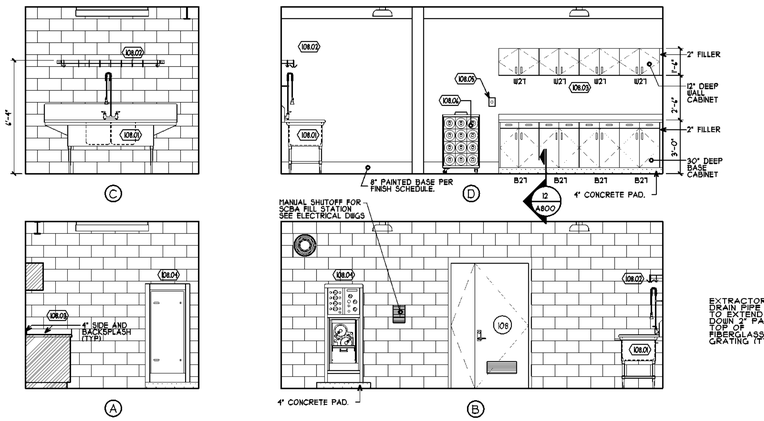
A710

PLOT TIME: 3:41 PM

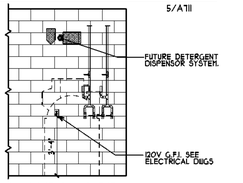
DWG ID#: S:\J Drive\Putnam Valley\PV_A710



8 A111 **ELEVATIONS (ROOM 107)**
SCALE: 1/4" = 1'-0"

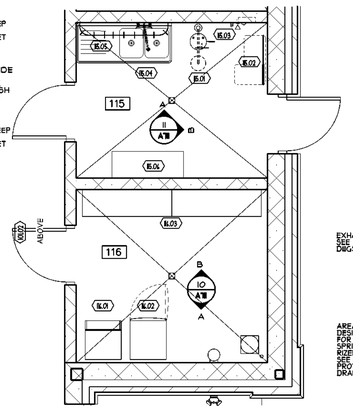


7 A111 **ELEVATIONS (ROOM 108)**
SCALE: 1/4" = 1'-0" 5/A111

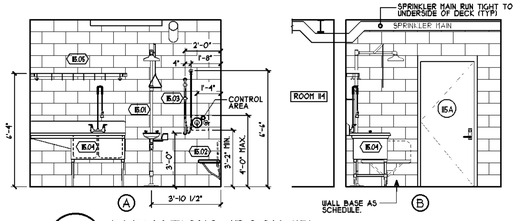


5/A111

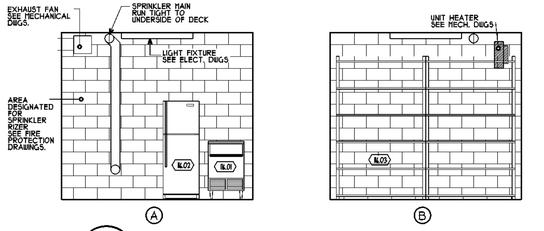
8A A111 **EXTRACTOR ELEVATION (ROOM 107)**
SCALE: 1/4" = 1'-0" 8/A111



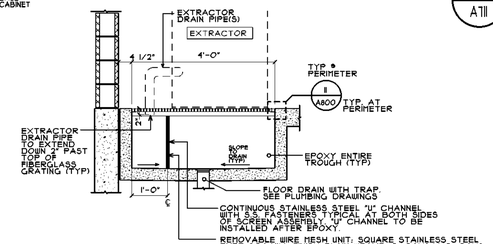
9 A111 **ENLARGED FLOOR PLAN**
SCALE: 1/4" = 1'-0" 1/A100



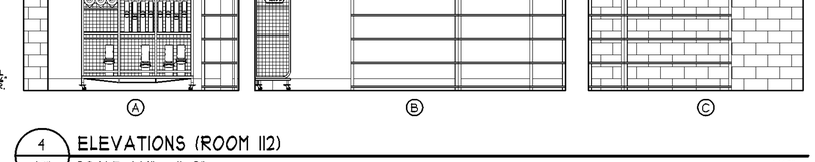
11 A111 **ELEVATIONS (ROOM 115)**
SCALE: 1/4" = 1'-0" 9/A111



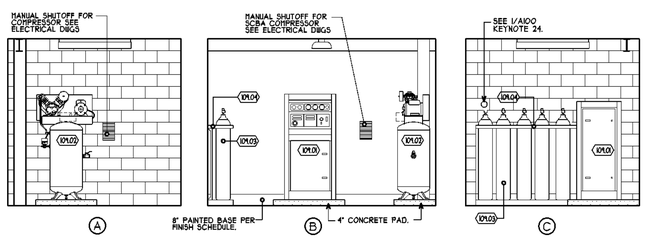
10 A111 **ELEVATIONS (ROOM 116)**
SCALE: 1/4" = 1'-0" 9/A111



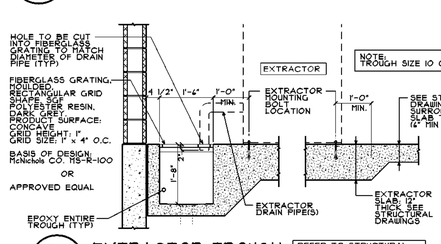
5B A111 **EXTRACTOR TROUGH** REFER TO STRUCTURAL DWGS FOR REINFORCEMENT
SCALE: 1/2" = 1'-0" 5/A111



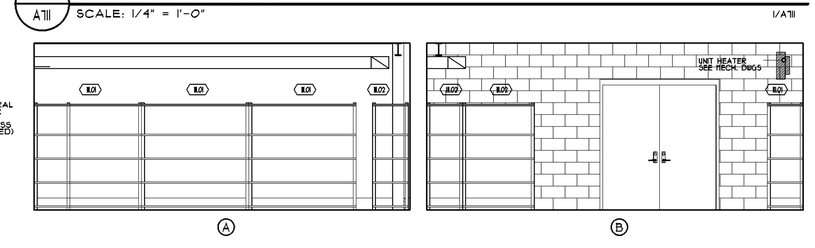
4 A111 **ELEVATIONS (ROOM 112)**
SCALE: 1/4" = 1'-0" 1/A111



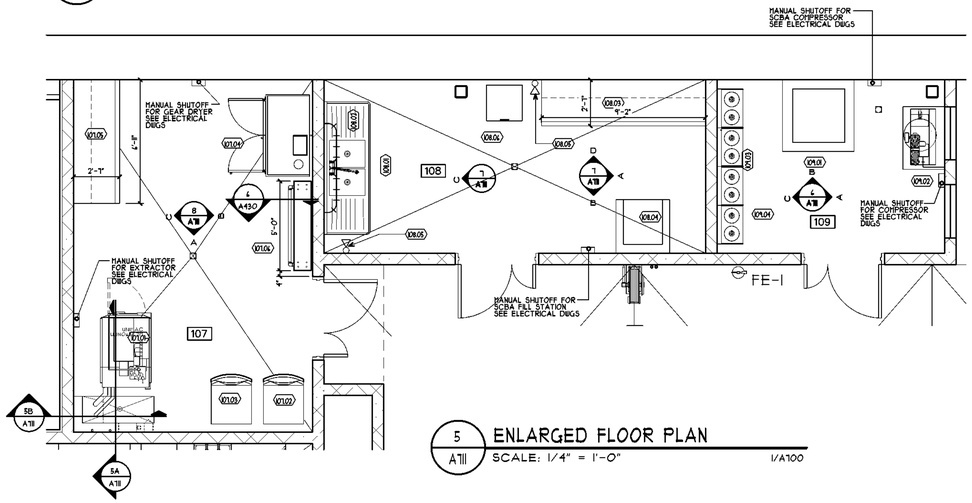
6 A111 **ELEVATIONS (ROOM 109)**
SCALE: 1/4" = 1'-0" 5/A111



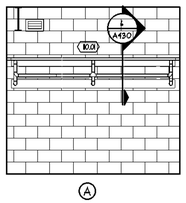
5A A111 **EXTRACTOR TROUGH** REFER TO STRUCTURAL DWGS FOR REINFORCEMENT
SCALE: 1/2" = 1'-0" 5/A111



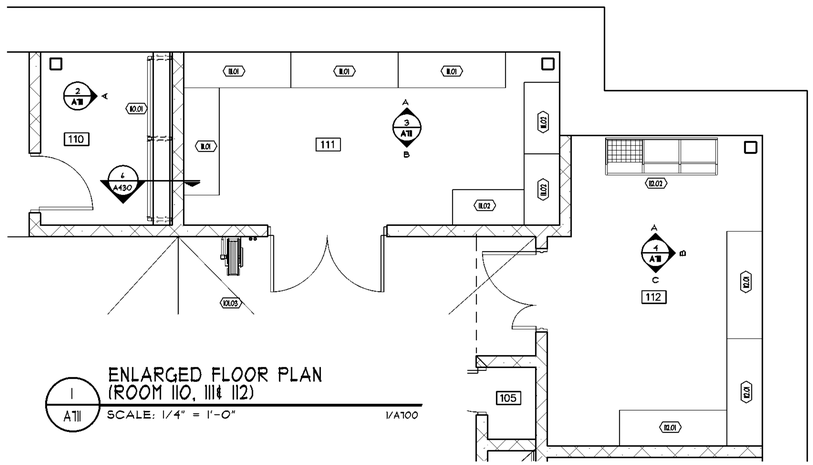
3 A111 **ELEVATIONS (ROOM 111)**
SCALE: 1/4" = 1'-0" 1/A111



5 A111 **ENLARGED FLOOR PLAN**
SCALE: 1/4" = 1'-0" 1/A100



2 A111 **ELEVATIONS (ROOM 110)**
SCALE: 1/4" = 1'-0" 1/A111



1 A111 **ENLARGED FLOOR PLAN (ROOM 110, 111 & 112)**
SCALE: 1/4" = 1'-0" 1/A100

CASEWORK GENERAL NOTES

1. SEE SPECIFICATION FOR FFIE DESIGNATIONS. (EXX.X)
2. SEE DWG A730 FOR CASEWORK SECTIONS AND DETAILS.

CASEWORK LEGEND

SB36 — CABINET TYPE / CABINET WIDTH (IN.)

CABINET TYPE:

B	BASE CABINET W/TOP DRAWER, (1) ADJUSTABLE HEIGHT SHELF
BC	CORNER BASE CABINET
SDB	SLIDING DRAWER BASE CABINET, NO DRAWERS
#DB	DRAWER BASE CABINET WITH (#: 2, 3, 4, 5) DRAWERS
SB	SINK BASE W/FALSE DRAWER FRONT, NO SHELVES
SBC	SINK BASE CORNER UNIT W/FALSE DRAWER FRONT, NO SHELVES
TC	TALL CABINET, SEE DWG FOR HEIGHT
BBF	BOX, BOX FILE BASE CABINET
W	WALL CABINET W/ (2) ADJUSTABLE HEIGHT SHELVES
WC	WALL CORNER CABINET W/ (2) ADJUSTABLE HEIGHT SHELVES
WO	OPEN-FRONT WALL CABINET W/ (2) ADJUSTABLE HEIGHT SHELVES

CASEWORK NOTES:

1. ALL COUNTERTOPS TO BE 2'-1" DEEP WITH 4" SIDE AND BACKSPLASH WHERE COUNTERTOPS ABUT WALLS, UNLESS OTHERWISE NOTED.
2. ALL SINKS TO BE CENTERED IN BASE CABINETS UNLESS OTHERWISE NOTED.
3. ALL COUNTERTOPS TO BE SCRIBED TO ADJACENT WALLS.
4. ALL BASE CABINETS TO BE 2'-0" DEEP UNLESS OTHERWISE NOTED.
5. ALL WALL CABINETS TO BE 1'-0" DEEP UNLESS OTHERWISE NOTED.
6. PROVIDE FILLER STRIPS WHERE CABINETS ABUT WALLS AND CORNERS AND WHERE NECESSARY TO ALLOW PROPER OPERATION OF DOORS, DRAWERS AND APPLIANCES.
7. PROVIDE FINISHED END PANELS WHERE CABINET ENDS ARE EXPOSED.
8. TOP SURFACES OF ALL B/ALL CABINETS THAT ARE NOT TIGHT TO A SOFFIT SHALL HAVE NO GAPS OR VOIDS.
9. COORDINATE LAYOUT OF CABINETS WITH ANY APPLIANCES.
10. PROVIDE ADEQUATE BLOCKING IN ALL WALLS WHERE CABINETS, SHELVING OR EQUIPMENT ARE TO BE MOUNTED.

CASEWORK KEY NOTES

- C1 SOLID SURFACE COUNTERTOP W/O BACKSPLASH, SIZE AS SHOWN
- C2 SOLID SURFACE COUNTERTOP WITH 4" BACKSPLASH, SIZE AS SHOWN
- C3 1 1/2" PLYWOOD SUPPORT BELOW W/ PLASTIC LAMINATE SIDES AND VINYL EDGE HOLD AT FRONT EDGE
- C4 NOT USED.
- C5 3/4" PLYWOOD SKIRT W/PLASTIC LAMINATE ALL SIDES AND VINYL EDGE HOLD BOTTOM EDGE
- C6 18" X 24" METAL SUPPORT BRACKET
- C7 PLASTIC LAMINATED WALL CABINET W/ VINYL EDGE HOLD 1 ADJUSTABLE SHELF. NO DOORS.
- C8 3" DIA STAINLESS STEEL LEG
- C9 PENCIL DRAWER
- C10 CABLE GROMMET
- C11 3/4" PLYWOOD SHELVES W/PLASTIC LAMINATE AND VINYL EDGE HOLD ON STANDARDS AND BRACKETS
- C12 PRIVACY SCREEN
- C13 NOT USED.
- C14 INTERMEDIATE BRACE FOR UPPER RADIO ROOM COUNTER TOP
- C15 RADIO ROOM CONSOLE CENTER SUPPORT-SEE DETAILS

NOTE: SEE OFFICE ELEVATIONS FOR CURRENT COMPONENT LOCATIONS AND OFFICE EQUIPMENT.

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 BARRETT PLACE
CARMEL, NY 10512
(845) 225-9410 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

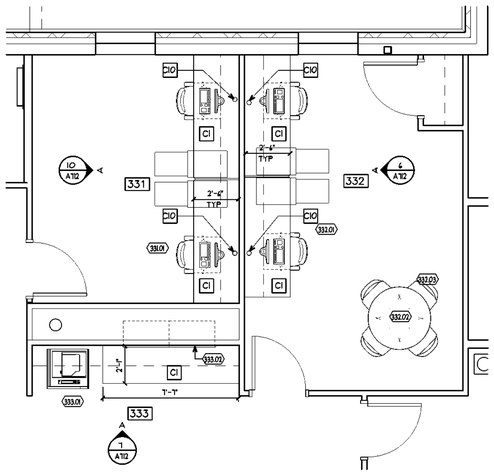
ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS OF FFIE

SCALE: AS NOTED
DWG. BY: JDC, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

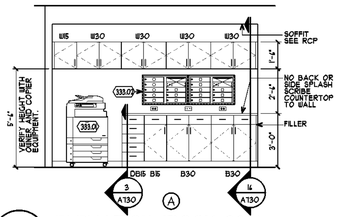
A111

PLOT TIME: 3:44 PM

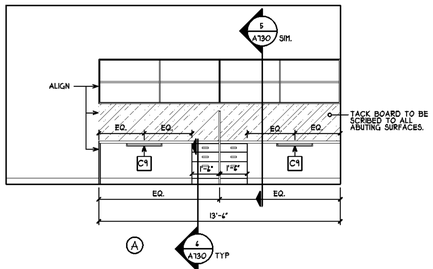
DWG ID#: S:\J Drive\Putnam Valley\PV_A710



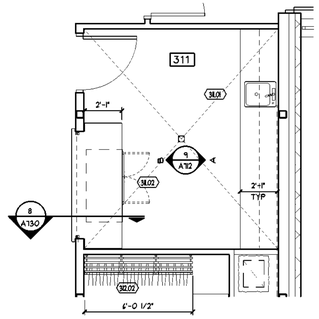
5 / A112 ENLARGED FLOOR PLAN (ROOM 331 & 332)
SCALE: 1/4" = 1'-0" 1/A102



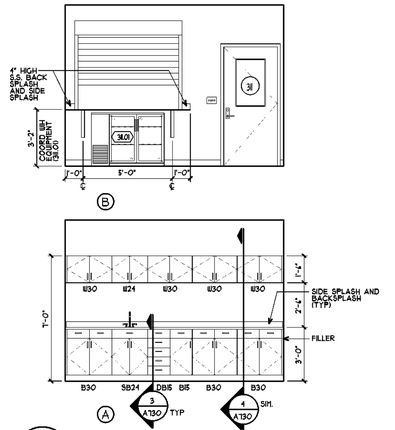
7 / A112 ELEVATION (ROOM 333)
SCALE: 1/4" = 1'-0" 5/A112



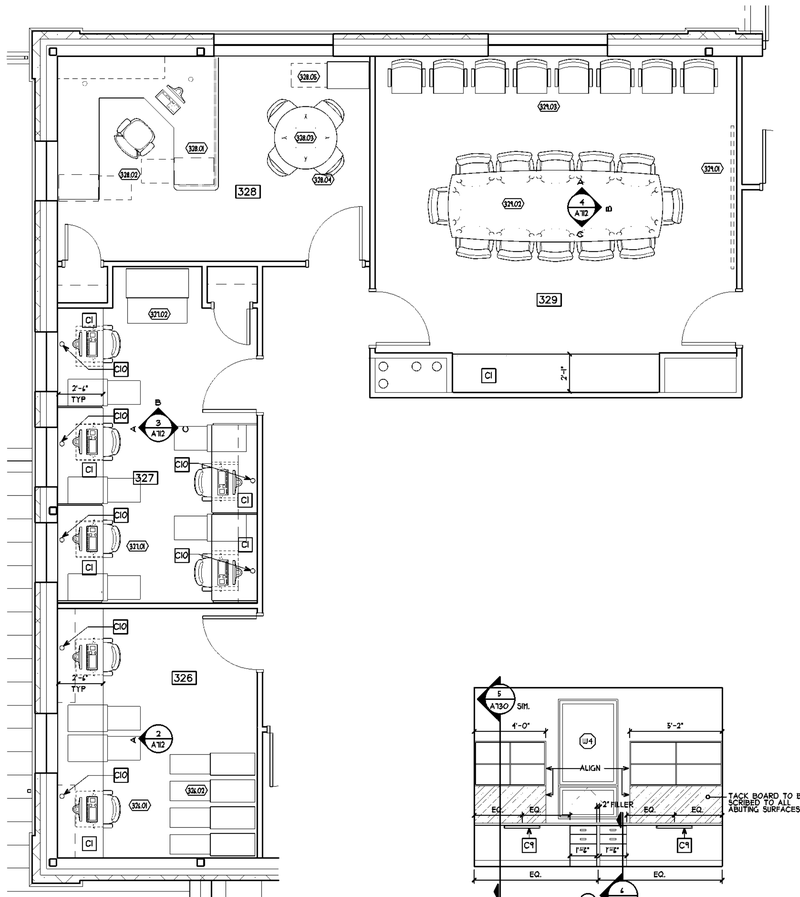
6 / A112 ELEVATION (ROOM 332)
SCALE: 1/4" = 1'-0" 5/A112



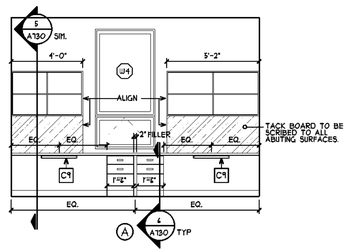
8 / A112 ENLARGED PLAN (ROOM 311)
SCALE: 1/4" = 1'-0" 1/A102



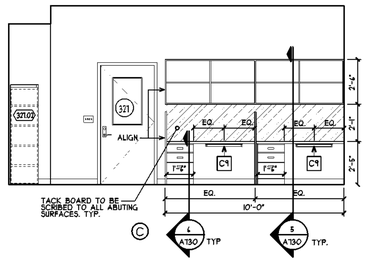
9 / A112 ELEVATIONS (ROOM 311)
SCALE: 1/4" = 1'-0" 8/A112

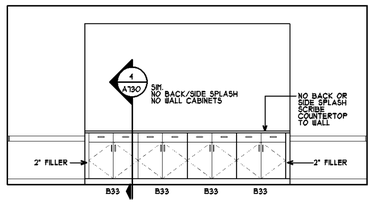


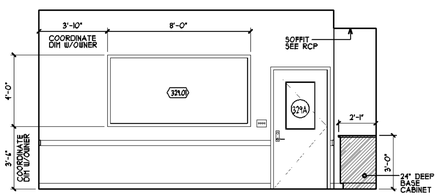
1 / A112 ENLARGED PLAN (ROOMS 326-329)
SCALE: 1/4" = 1'-0" 1/A102

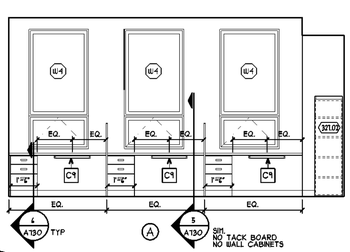


2 / A112 ELEVATIONS (ROOM 326)
SCALE: 1/4" = 1'-0" 1/A112

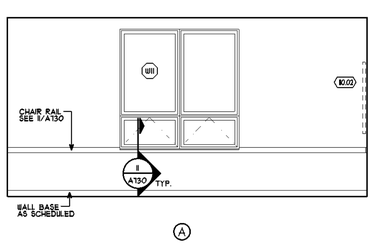




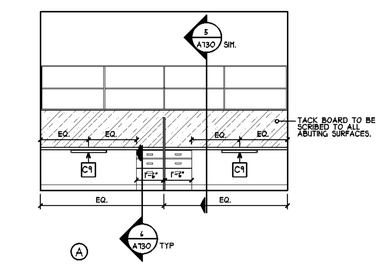




3 / A112 ELEVATIONS (ROOM 327)
SCALE: 1/4" = 1'-0" 1/A112



4 / A112 ELEVATIONS (ROOM 329)
SCALE: 1/4" = 1'-0" 1/A112



10 / A112 ELEVATION (ROOM 331)
SCALE: 1/4" = 1'-0" 5/A112

CASEWORK GENERAL NOTES

1. SEE SPECIFICATION FOR FFIE DESIGNATIONS. (EXXX)
2. SEE DWG A730 FOR CASEWORK SECTIONS AND DETAILS.

CASEWORK LEGEND

SB24 — CABINET TYPE; 24 — CABINET WIDTH (IN.)

CABINET TYPE:

B	BASE CABINET W/TOP DRAWER, (1) ADJUSTABLE HEIGHT SHELF
BC	CORNER BASE CABINET
SDB	SLIDING DRAWER BASE CABINET, NO DRAWERS
*DB	DRAWER BASE CABINET WITH (#: 2, 3, 4, 5) DRAWERS
SB	SINK BASE W/FALSE DRAWER FRONT, NO SHELVES
SBC	SINK BASE CORNER UNIT W/FALSE DRAWER FRONT, NO SHELVES
TC	TALL CABINET, SEE DWG FOR HEIGHT
BBF	BOX, BOX FILE BASE CABINET
W	WALL CABINET W/ (2) ADJUSTABLE HEIGHT SHELVES
WC	WALL CORNER CABINET W/ (2) ADJUSTABLE HEIGHT SHELVES
WO	OPEN-FRONT WALL CABINET W/ (2) ADJUSTABLE HEIGHT SHELVES

CASEWORK NOTES:

1. ALL COUNTERTOPS TO BE 2'-1" DEEP WITH 4" SIDE AND BACKSPLASH WHERE COUNTERTOPS ABUT WALLS, UNLESS OTHERWISE NOTED.
2. ALL SINKS TO BE CENTERED IN BASE CABINETS UNLESS OTHERWISE NOTED.
3. ALL COUNTERTOPS TO BE SCRIBED TO ADJACENT WALLS.
4. ALL BASE CABINETS TO BE 2'-0" DEEP UNLESS OTHERWISE NOTED.
5. ALL WALL CABINETS TO BE 1'-0" DEEP UNLESS OTHERWISE NOTED.
6. PROVIDE FILLER STRIPS WHERE CABINETS ABUT WALLS AND CORNERS AND WHERE NECESSARY TO ALLOW PROPER OPERATION OF DOORS, DRAWERS AND APPLIANCES.
7. PROVIDE FINISED END PANELS WHERE CABINET ENDS ARE EXPOSED.
8. TOP SURFACES OF ALL WALL CABINETS THAT ARE NOT TIGHT TO A SOFFIT SHALL HAVE NO GAPS OR VOIDS.
9. COORDINATE LAYOUT OF CABINETS WITH ANY APPLIANCES.
10. PROVIDE ADEQUATE BLOCKING IN ALL WALLS WHERE CABINETS, SHELVING OR EQUIPMENT ARE TO BE MOUNTED.

CASEWORK KEY NOTES

C1	SOLID SURFACE COUNTERTOP W/O BACKSPLASH, SIZE AS SHOWN
C2	SOLID SURFACE COUNTERTOP WITH 4" BACKSPLASH, SIZE AS SHOWN
C3	1 1/2" PLYWOOD SUPPORT BELOW W/ PLASTIC LAMINATE SIDES AND VINYL EDGE HOLD AT FRONT EDGE
C4	NOT USED.
C5	3/4" PLYWOOD SKIRT W/PLASTIC LAMINATE ALL SIDES AND VINYL EDGE HOLD BOTTOM EDGE
C6	18" X 24" METAL SUPPORT BRACKET
C7	PLASTIC LAMINATED WALL CABINET W/ VINYL EDGE HOLD 1 ADJUSTABLE SHELF. NO DOORS.
C8	3" DIA STAINLESS STEEL LEG
C9	PENCIL DRAWER
C10	CABLE GROMMET
C11	3/4" PLYWOOD SHELVES W/PLASTIC LAMINATE AND VINYL EDGE HOLD ON STANDARDS AND BRACKETS
C12	PRIVACY SCREEN
C13	NOT USED.
C14	INTERMEDIATE BRACE FOR UPPER RADIO ROOM COUNTER TOP
C15	RADIO ROOM CONSOLE CENTER SUPPORT-SEE DETAILS

NOTE: SEE OFFICE ELEVATIONS FOR CURRENT COMPONENT LOCATIONS AND OFFICE EQUIPMENT.

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9460 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

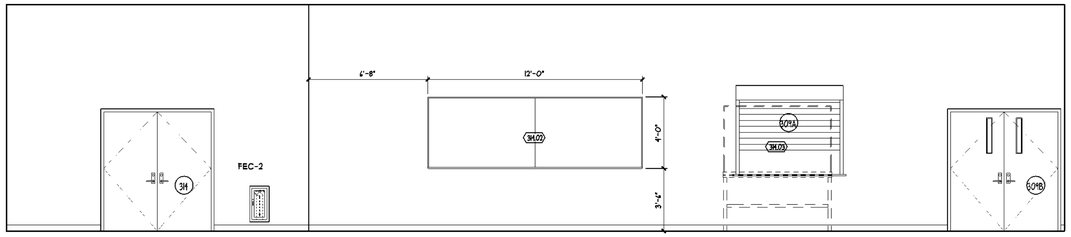
ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS OF FFIE

SCALE: AS NOTED
DWG. BY: JDC, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A712

PLOT TIME: 3:48 PM

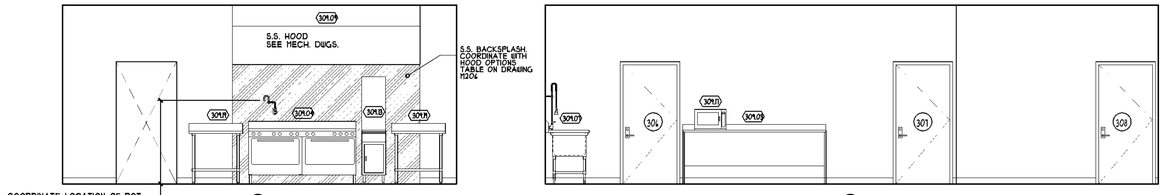
DWG ID#: S:\J Drive\Putnam Valley\PV_A712



4 / A713 ELEVATIONS (ROOM 314)

SCALE: 1/4" = 1'-0"

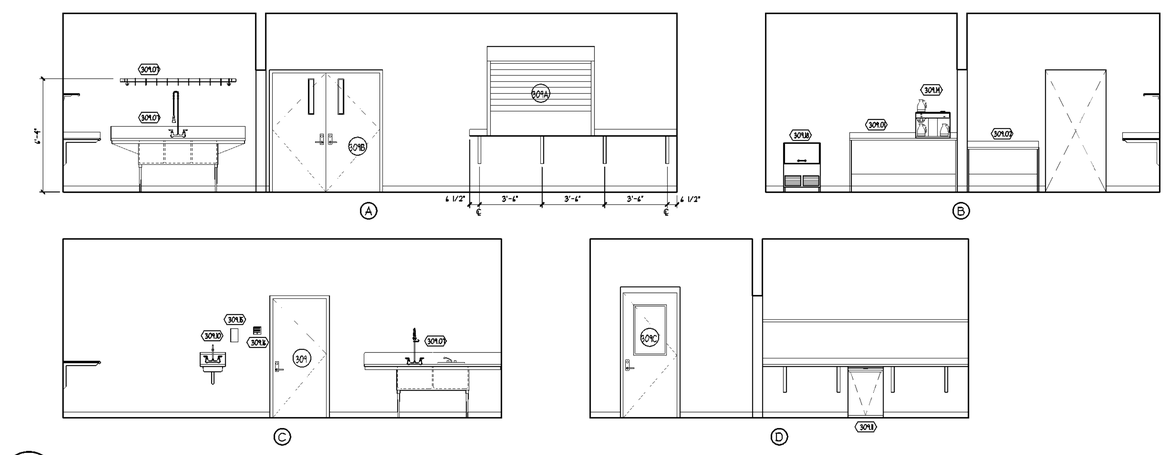
1/A702

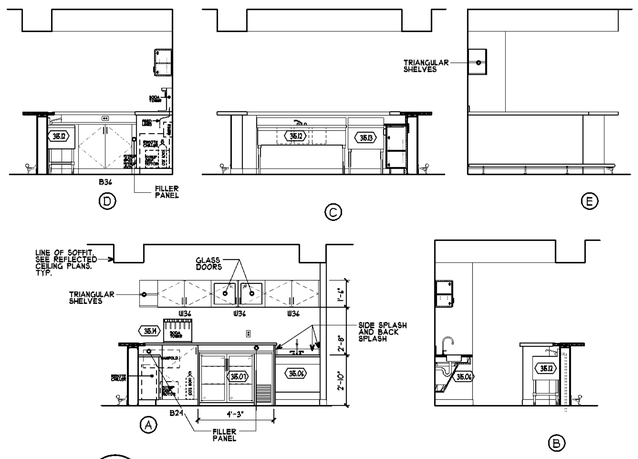


3 / A713 ELEVATIONS (ROOM 309 & 309A)

SCALE: 1/4" = 1'-0"

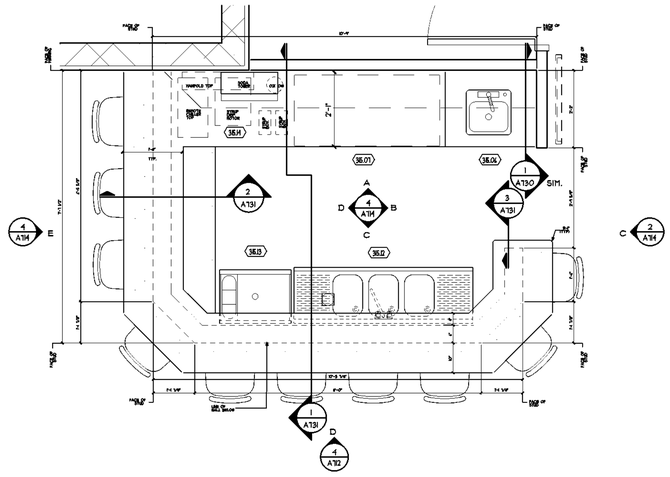
1/A713





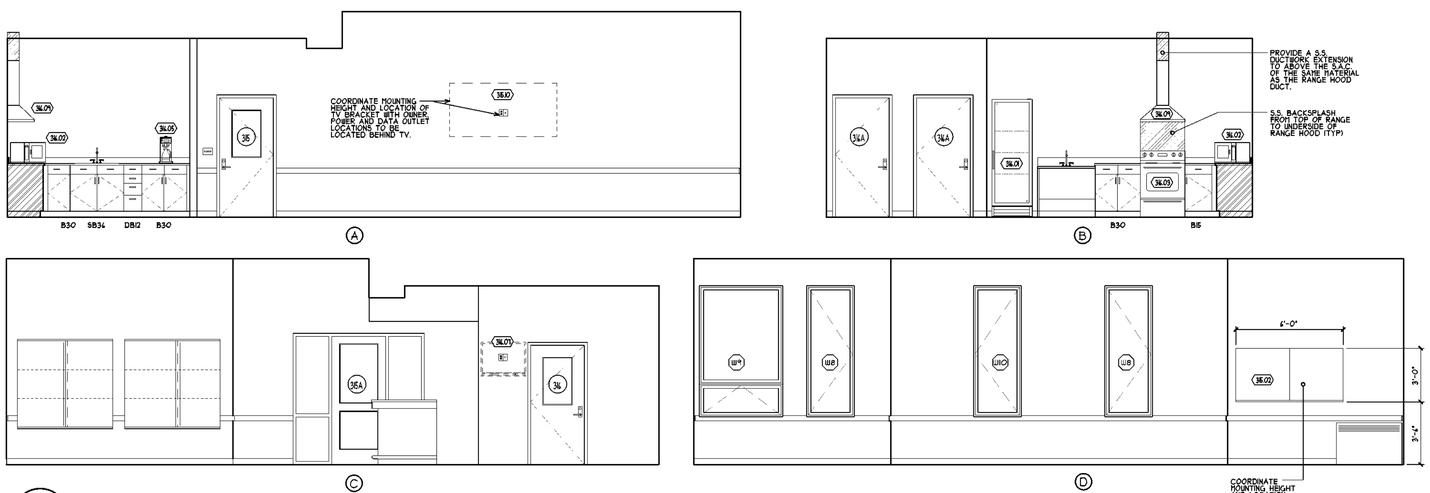
4 / A714 ELEVATIONS (ROOM 315)

SCALE: 1/4" = 1'-0" 1/A712



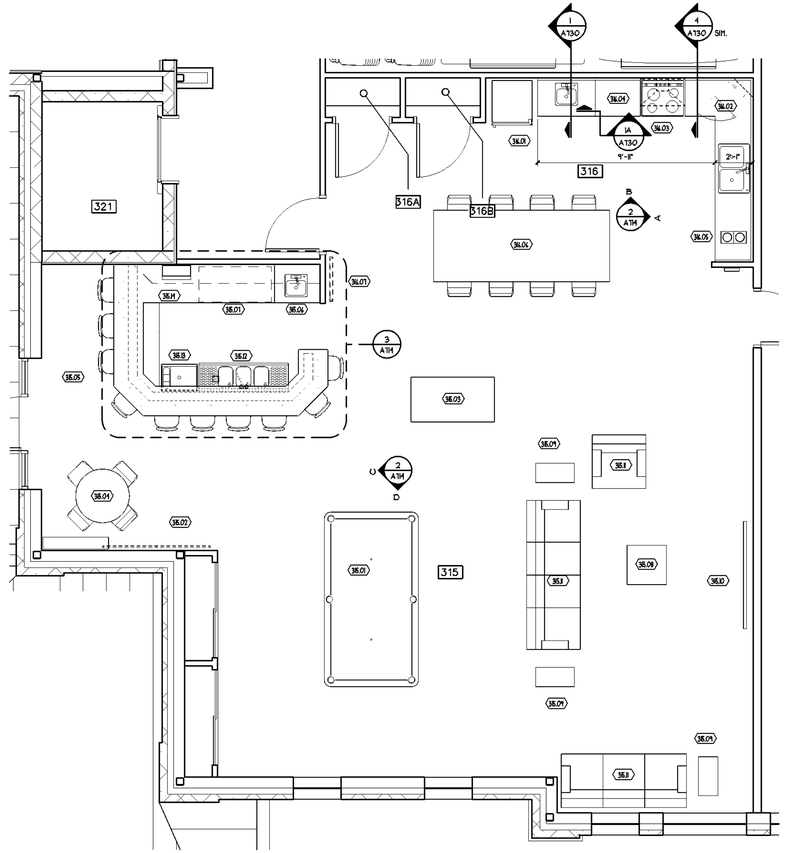
3 / A714 ENLARGED PLAN (ROOM 315)

SCALE: 1/2" = 1'-0" 1/A713



2 / A714 ELEVATIONS (ROOM 315 & 316)

SCALE: 1/4" = 1'-0" 1/A714



1 / A714 ENLARGED PLAN (ROOM 315 & 316)

SCALE: 1/4" = 1'-0" 1/A702

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX (845) 225-9771

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1934

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		

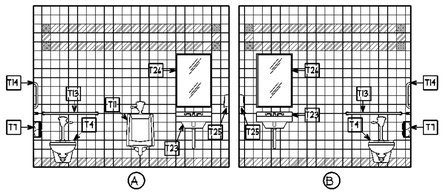
ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS OF FF&E

SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

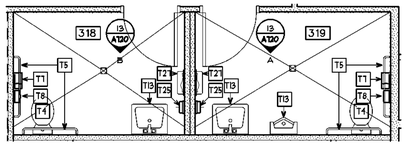
A714

PLOT TIME: 1:05 PM

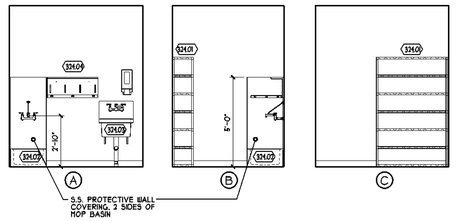
DWG ID#: S:\J Drive\Putnam Valley\PV_A712



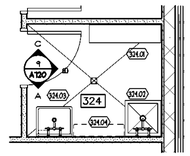
13 A120 ELEVATIONS (ROOM 318 & 319)
SCALE: 1/4" = 1'-0"



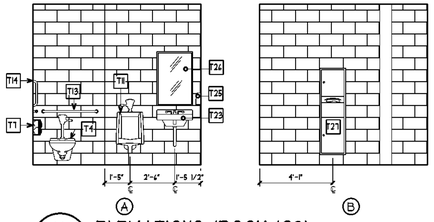
12 A120 ENLARGED FLOOR PLAN (ROOM 318 & 319)
SCALE: 1/4" = 1'-0" 1/A102



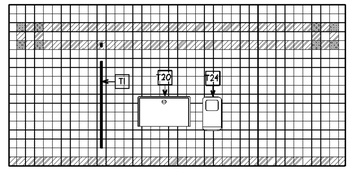
9 A120 ELEVATIONS (ROOM 324)
SCALE: 1/4" = 1'-0"



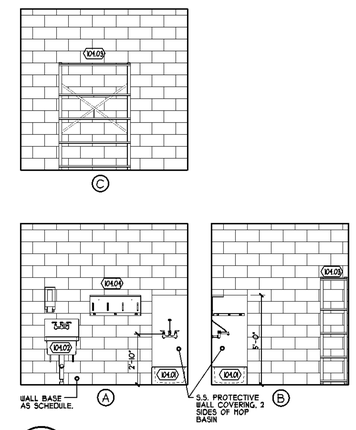
8 A120 ENLARGED FLOOR PLAN (ROOM 324)
SCALE: 1/4" = 1'-0" 1/A102



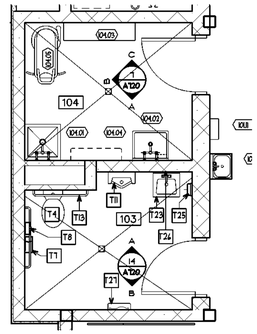
14 A120 ELEVATIONS (ROOM 103)
SCALE: 1/4" = 1'-0"



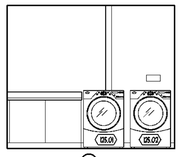
11 A120 ELEVATIONS (ROOM 304) (303 SIM. OPP)
SCALE: 1/4" = 1'-0"



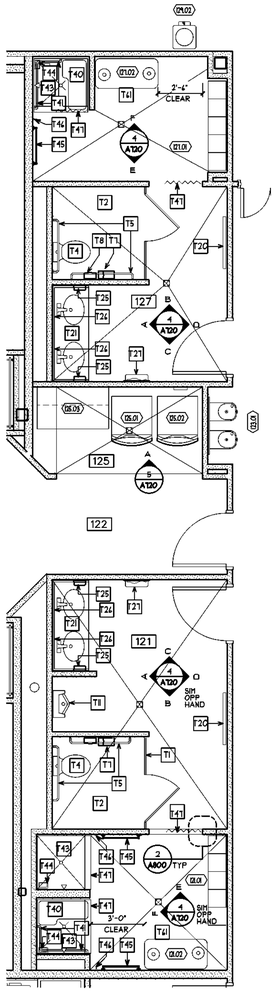
7 A120 ELEVATIONS (ROOM 104)
SCALE: 1/4" = 1'-0"



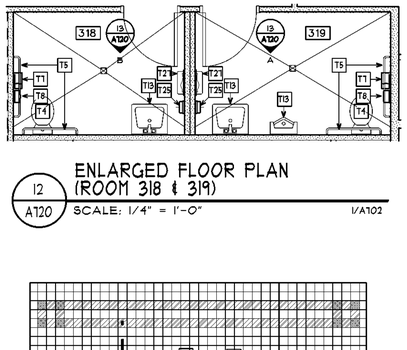
6 A120 ENLARGED FLOOR PLAN (ROOM 103-104)
SCALE: 1/4" = 1'-0" 1/A100



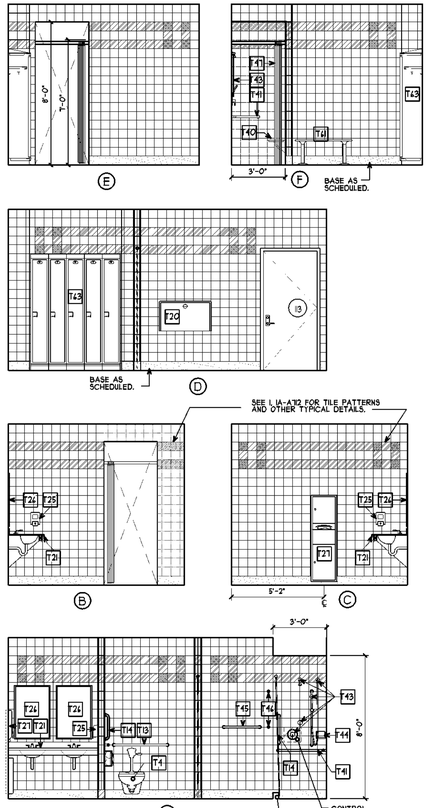
5 A120 ELEVATION (ROOM 125)
SCALE: 1/4" = 1'-0" 3/A120



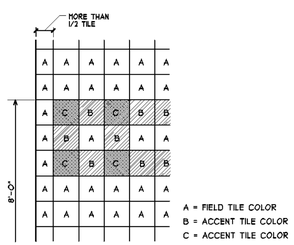
3 A120 ENLARGED FLOOR PLAN (ROOM 121, 125 & 127)
SCALE: 1/4" = 1'-0" 1/A100



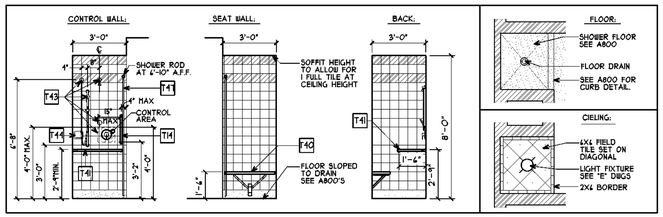
10 A120 ENLARGED FLOOR PLAN (ROOM 304) 303 SIM OPP.
SCALE: 1/4" = 1'-0" 1/A102



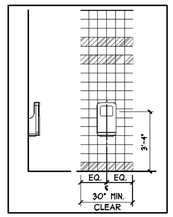
4 A120 ELEVATIONS (ROOM 121 & 127)
SCALE: 1/4" = 1'-0" 3/A120



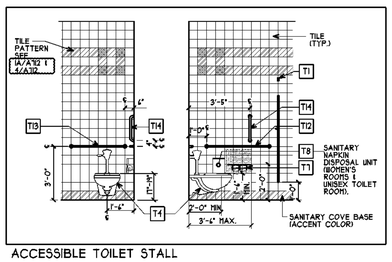
2 A120 TILE PATTERN
SCALE: NOT TO SCALE



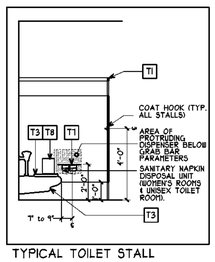
SHOWER DETAILS



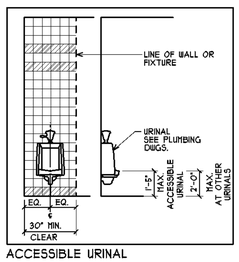
HAND DRYER



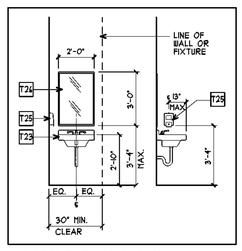
ACCESSIBLE TOILET STALL



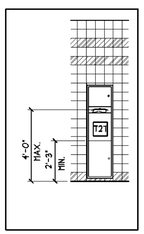
TYPICAL TOILET STALL



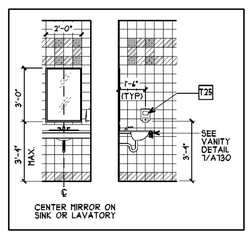
ACCESSIBLE URINAL



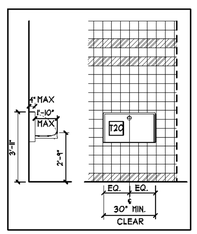
ACCESSIBLE LAVATORY



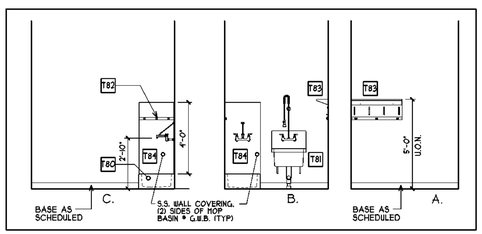
PAPER TOWEL/WASTE RECEPTACLE



ACCESSIBLE VANITY AREA



DIAPER CHANGING STATION



JANITOR CLOSET

REFER TO ENLARGED PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL DETAILING AT MOP RECEPTOR AT LOCATIONS WITH G.W.B.

1 A120 TYPICAL TOILET ROOM & PLUMBING ELEVATIONS
SCALE: 1/4" = 1'-0"

NOTES:
1. ALL DIMENSIONS IN THIS DETAIL ARE MEASURED OFF FINISHED WALL SURFACES
2. SEE REFLECTED CEILING PLANS FOR LAVATORY CEILING HEIGHTS.
3. REFER TO PLANS FOR LOCATIONS OF TOILET ROOM ACCESSORIES U.O.N.

TOILET, LOCKER & JANITOR CLOSET KEY NOTES

TOILETRY
- T1 TOILET PARTITION SYSTEM
- T2 ACCESSIBLE TOILET STALL
- T3 WALL HUNG TOILET
- T4 ACCESSIBLE WALL HUNG TOILET
- T5 ACCESSIBLE GRAB BARS, SEE T12, T13, T14 & TYP BATH ELEVATIONS.
- T6 TOILET STALL
- T7 TOILET PAPER DISPENSER
- T8 SANITARY NAPKIN RECEPTACLE UNIT
- T9 *NOT USED*
- T10 *NOT USED*
- T11 ACCESSIBLE WALL HUNG URINAL
- T12 42" GRAB BAR
- T13 36" GRAB BAR
- T14 18" VERTICAL GRAB BAR

HAND WASHING
- T20 DIAPER CHANGING STATION
- T21 ACCESSIBLE VANITY TOP
- T22 *NOT USED*
- T23 ACCESSIBLE WALL HUNG LAVATORY
- T24 ELECTRIC HAND DRYER
- T25 WALL HUNG AUTOMATIC SOAP DISPENSER
- T26 MIRROR
- T27 RECESSED PAPER TOWEL DISPENSER W/WASTE RECEPTACLE UNIT

SHOWERING
- T40 ACCESSIBLE SHOWER STALL SEAT
- T41 ACCESSIBLE SHOWER GRAB BARS
- T42 NOT USED
- T43 ACCESSIBLE SHOWER VALVE & HEAD W/HOSE
- T44 SOAP DISH
- T45 TOWEL BAR @ 4'-0" A.F.F. TO TOP
- T46 (2) ROBE HOOKS, MOUNTED @ 4'-0" & 6'-0" FROM F.F.
- T47 SHOWER CURTAIN

JANITOR
- T80 MOP RECEPTOR
- T81 SERVICE BASIN
- T82 MOP HOLDER
- T83 MOP AND BROOM HOLDER W/SHELF
- T84 PROTECTIVE WALL PANEL

NOTES:
1. SEE TYPICAL TOILET ROOM PLAN & ELEVATIONS FOR TYPE AND LOCATION OF TOILET ROOM ACCESSORIES
2. PROVIDE BLOCKING IN STUD WALLS TO SUPPORT FIXTURES AND ACCESSORIES

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9410 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

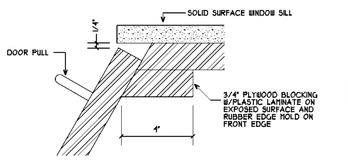
ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS OF TOILET/JANITOR ROOMS

SCALE: AS NOTED
DWG. BY: JDC, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

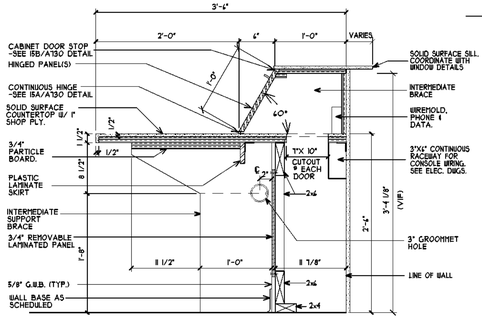
A120

PLOT TIME: 8:14 AM

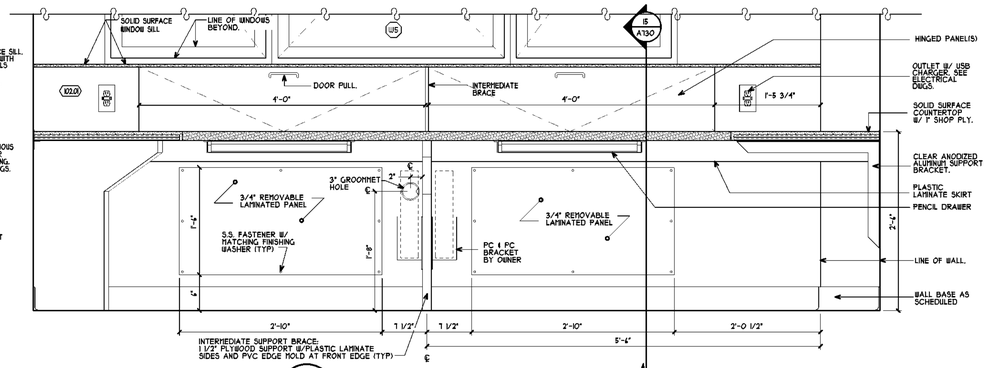
DWG ID#: S:\J Drive\Putnam Valley\PV_A120



15B A130 **DOOR STOP DETAIL**
SCALE: 3" = 1'-0" 15/A130



15 A130 **RADIO ROOM CONSOLE**
SCALE: 1" = 1'-0" H/A130A130

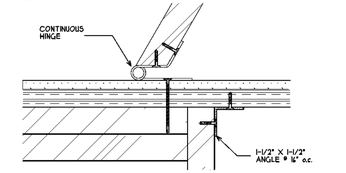


14 A130 **RADIO ROOM CONSOLE**
SCALE: 1" = 1'-0" 5/A110

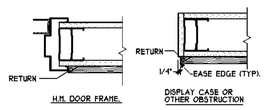
CASEWORK KEY NOTES

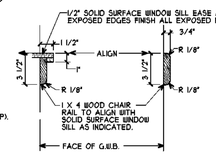
- C1 1/2" SOLID SURFACE COUNTERTOP W/ 3/4" SUBSTRATE.
- C2 BACKSPLASH - 4" HIGH / 1" SOLID SURFACE.
- C3 BACKSPLASH - 6" HIGH / 1" SOLID SURFACE.
- C4 APRON - 3/4" PARTICLE BOARD W/ PLASTIC LAMINATED FINISH AND 3mm PVC EDGE BAND. PLASTIC LAMINATE ALL EXPOSED SURFACES.
- C5 CONTINUOUS 3/4" PARTICLE BOARD W/ PLASTIC LAMINATED FINISH. PLASTIC LAMINATE ALL EXPOSED SURFACES.
- C6 WOOD OR PANEL PRODUCT STRETCHERS ON CENTER IN CABINETS GREATER THAN 30 INCHES WIDE.
- C7 FILE DRAWERS (TYP). PROVIDE ALUMINUM RAILS FOR LETTER SIZED HANGING FILE FOLDERS.
- C8 COUNTER-TOP SUPPORT - 3/4" PARTICLE BOARD W/ PLASTIC LAMINATE FINISH AND PVC EDGE BAND.
- C9 3/4" PARTICLE BOARD. PLASTIC LAMINATED AT EXPOSED SURFACES.
- C10 TOE KICK: 3/4" EXTERIOR GRADE PLYWOOD W/ BASE AS SCHEDULED.
- C11 ADJUSTABLE SHELF. PLASTIC LAMINATED ON 3/4" PARTICLE BOARD W/ 3mm PVC EDGE. 5mm MULTIPLE HOLE PIN SUPPORT AT 1" ON CENTER.
- C12 DRAWER BOX: 1/2" PLYWOOD SIDES W/ 1/2" PLYWOOD BOTTOM SET INTO DADO AT ALL SIDES.
- C13 DRAWER/CABINET FRONT: PLASTIC LAMINATED ON 3/4" PARTICLE BOARD W/ 3mm PVC EDGE (ALL DOOR & DRAWERS).
- C14 CABINET BODY: PLASTIC LAMINATED ON 3/4" PARTICLE BOARD W/ 3mm PVC EDGE.
- C15 3/4" x 2 1/2" WEB FRAME. PLASTIC LAMINATED AT EXPOSED EDGES.
- C16 SHELF: 3/4" PARTICLE BOARD W/ PLASTIC LAMINATE FINISH AND PVC EDGE BAND.
- C17 WORKSTATION SCREEN. PLASTIC LAMINATED ON 3/4" PARTICLE BOARD W/ 3 mm PVC EDGE. 3" RADIUS AT CORNERS AS SHOWN. PROVIDE BACK SUPPORT.
- C18 TACKABLE SURFACE. 1/2" THICK MIN.
- C19 3/4" x 2 1/2" WOOD STRETCH CLEAT TOP & BOTTOM.
- C20 CABINET BACK: PLASTIC LAMINATED ON 1/4" HARD BOARD, FULL RABBET BOUND.
- C21 ADJUSTABLE SHELF(FULL DEPTH): PLASTIC LAMINATED ON 3/4" PARTICLE BOARD W/ 3mm PVC EDGE. 5mm MULTIPLE HOLE PIN SUPPORT AT 1" ON CENTER.
- C22 CLEAR ANODIZED ALUMINUM SUPPORT BRACKET. 24" X 18"
- C23 CONTINUOUS 1-1/2" X 1-1/2" ANGLE. PAINTED TO MATCH WALL COLOR.
- C24 STAINLESS STEEL COUNTERTOP (TYP)
- C25 CLEAR ANODIZED ALUMINUM SUPPORT BRACKET. 4" X 8"
- C26 STAINLESS STEEL SHELF
- C27 SPECIAL FRP

NOTE:
-SEE OFFICE ELEVATIONS FOR CURRENT COMPONENT LOCATIONS AND OFFICE EQUIPMENT.
-PROVIDE ADEQUATE BLOCKING IN ALL WALLS WHERE CABINETS, SHELVING OR EQUIPMENT ARE TO BE MOUNTED.

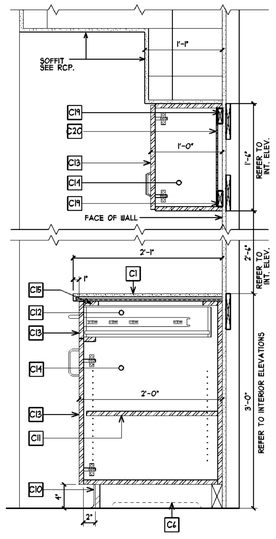


15A A130 **CONTINUOUS HINGE DETAIL**
SCALE: 3" = 1'-0" 15/A130

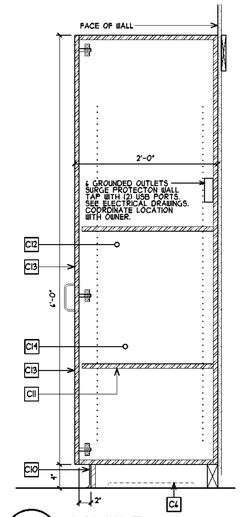




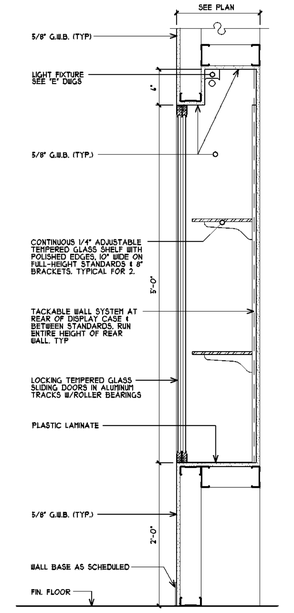
11 A130 **CHAIR RAIL DETAIL**
SCALE: 1-1/2" = 1'-0" 2/A110, 4/A112 & 2/A113 & FINISH SCHEDULE



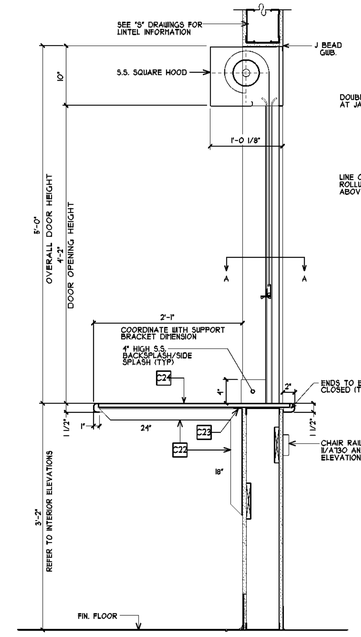
16 A130 **BASE CABINET W/ WALL CABINET (ROOM 333)**
SCALE: 1" = 1'-0" 5/A112



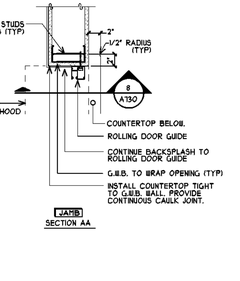
10 A130 **CABINET**
SCALE: 1" = 1'-0" 5/A110



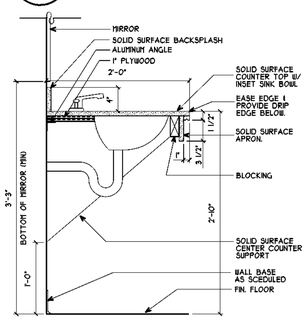
9 A130 **DISPLAY CASE**
SCALE: 1" = 1'-0" 1/A100 & 1/A102



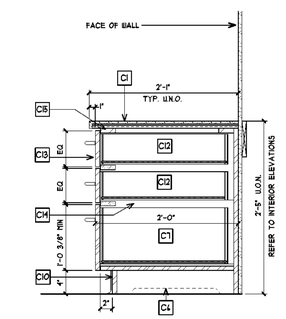
8 A130 **BASE CABINET AT ROLL UP COUNTER DOOR**
SCALE: 1" = 1'-0" 3/A113 & 8/A112



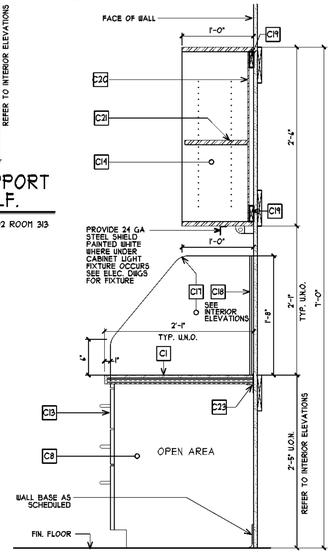
1A A130 **COUNTERTOP TRANSITION**
SCALE: 1" = 1'-0" 1/A110 & 1/A113



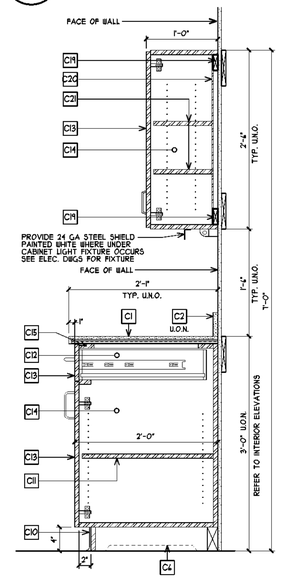
7 A130 **ACCESSIBLE VANITY DETAIL**
SCALE: 1" = 1'-0" A120



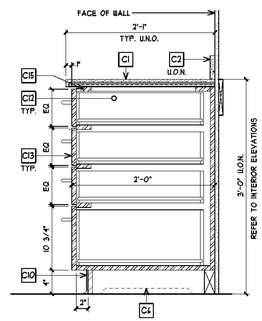
6 A130 **BASE CABINET W/ 3 DRAWERS**
SCALE: 1" = 1'-0" 1/A112 & 5/A112



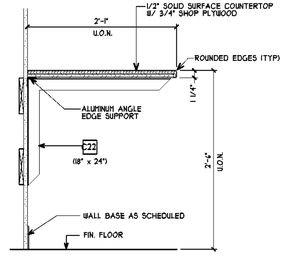
5 A130 **OFFICE WORK SURFACE & OPEN WALL CABINETS**
SCALE: 1" = 1'-0" 1/A112 & 5/A112



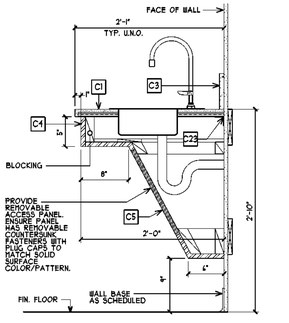
4 A130 **BASE CABINET W/ WALL CABINET**
SCALE: 1" = 1'-0" 1/A110 & 1/A113



3 A130 **DRAWER BASE CABINET**
SCALE: 1" = 1'-0" 1/A110 & 1/A113



2 A130 **RADIO ROOM WORK SURFACE W/ SUPPORT BRACKET**
SCALE: 1" = 1'-0" 5/A110



1 A130 **ADA WORK SURFACE AT SINK**
SCALE: 1" = 1'-0" 1/A110 & 1/A113

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9444 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

CASEWORK ELEVATIONS & DETAILS

SCALE: AS NOTED
DWG. BY: JDC, JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A130

PLOT TIME: 7:41PM

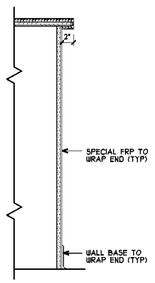
DWG ID#: S:\NJ Drive\Putnam Valley\PV_A130

CASEWORK KEY NOTES

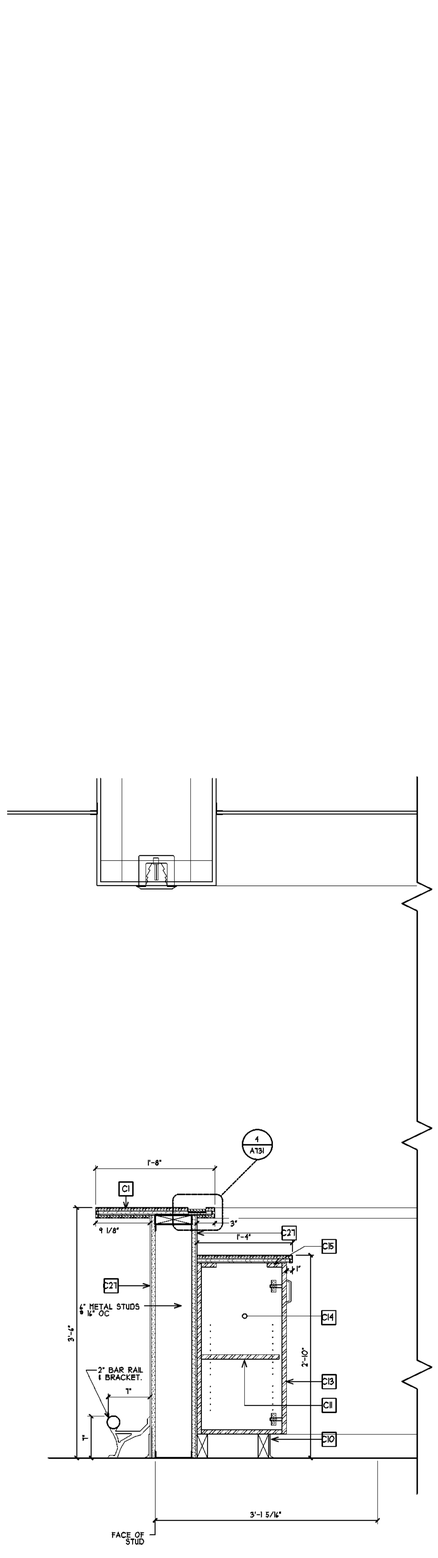
C1	1/2" SOLID SURFACE COUNTERTOP W/ 3/4" SUBSTRATE.
C2	BACKSPLASH - 4" HIGH / 1" SOLID SURFACE.
C3	BACKSPLASH - 6" HIGH / 1" SOLID SURFACE.
C4	APRON - 3/4" PARTICLE BOARD W/ PLASTIC LAMINATED FINISH AND 3mm PVC EDGE BAND. PLASTIC LAMINATE ALL EXPOSED SURFACES.
C5	CONTINUOUS 3/4" PARTICLE BOARD W/ PLASTIC LAMINATED FINISH. PLASTIC LAMINATE ALL EXPOSED SURFACES.
C6	WOOD OR PANEL PRODUCT STRETCHERS ON CENTER IN CABINETS GREATER THAN 30 INCHES WIDE.
C7	FILE DRAWERS (TYP): PROVIDE ALUMINUM RAILS FOR LETTER SIZED HANGING FILE FOLDERS.
C8	COUNTER-TOP SUPPORT - 3/4" PARTICLE BOARD W/ PLASTIC LAMINATE FINISH AND PVC EDGE BAND.
C9	3/4" PARTICLE BOARD, PLASTIC LAMINATED AT EXPOSED SURFACES.
C10	TOE KICK: 3/4" EXTERIOR GRADE PLYWOOD W/ BASE AS SCHEDULED.
C11	ADJUSTABLE SHELF: PLASTIC LAMINATED ON 3/4" PARTICLE BOARD W/ 3mm PVC EDGE. 5mm MULTIPLE HOLE PIN SUPPORT AT 1" ON CENTER.
C12	DRAWER BOX: 1/2" PLYWOOD SIDES W/ 1/2" PLYWOOD BOTTOM SET INTO DADO AT ALL SIDES.
C13	DRAWER/CABINET FRONT: PLASTIC LAMINATED ON 3/4" PARTICLE BOARD W/ 3mm PVC EDGE (ALL DOOR & DRAWERS).
C14	CABINET BODY: PLASTIC LAMINATED ON 3/4" PARTICLE BOARD W/ 3mm PVC EDGE.
C15	3/4" x 2 1/2" WEB FRAME: PLASTIC LAMINATED AT EXPOSED EDGES.
C16	SHELF: 3/4" PARTICLE BOARD W/ PLASTIC LAMINATE FINISH AND PVC EDGE BAND.
C17	WORKSTATION SCREEN: PLASTIC LAMINATED ON 3/4" PARTICLE BOARD W/ 3 mm PVC EDGE. 3" RADIUS AT CORNERS AS SHOWN. PROVIDE BACK SUPPORT.
C18	TACKABLE SURFACE. 1/2" THICK MIN.
C19	3/4" x 2 1/2" WOOD STRETCH CLEAT TOP & BOTTOM.
C20	CABINET BACK: PLASTIC LAMINATED ON 1/4" HARD BOARD, FULL RABBET BOUND.
C21	ADJUSTABLE SHELF(FULL DEPTH): PLASTIC LAMINATED ON 3/4" PARTICLE BOARD W/ 3mm PVC EDGE. 5mm MULTIPLE HOLE PIN SUPPORT AT 1" ON CENTER.
C22	CLEAR ANODIZED ALUMINUM SUPPORT BRACKET. 24" X 18"
C23	CONTINUOUS 1-1/2" X 1-1/2" ANGLE. PAINTED TO MATCH WALL COLOR.
C24	STAINLESS STEEL COUNTERTOP (TYP)
C25	CLEAR ANODIZED ALUMINUM SUPPORT BRACKET. 6" X 8"
C26	STAINLESS STEEL SHELF
C27	SPECIAL FRP

NOTE:
- SEE OFFICE ELEVATIONS FOR CURRENT COMPONENT LOCATIONS AND OFFICE EQUIPMENT.
- PROVIDE ADEQUATE BLOCKING IN ALL WALLS WHERE CABINETS, SHELVING OR EQUIPMENT ARE TO BE MOUNTED.

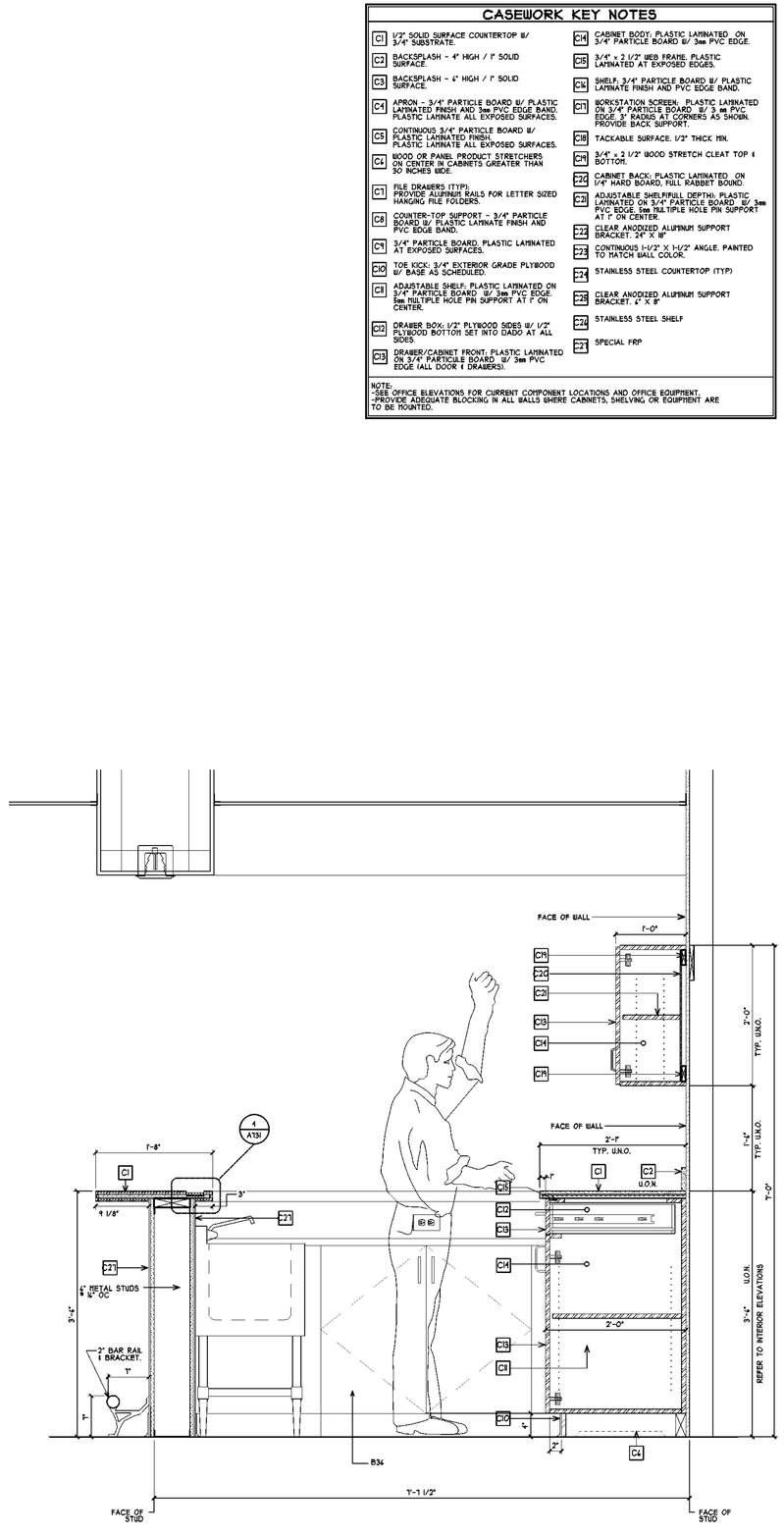
4 A731 **BAR COUNTER DETAIL**
SCALE: 2" = 1'-0"



3 A731 **SECTION @ COUNTER**
SCALE: 1" = 1'-0" 1/A713



2 A731 **SECTION @ COUNTER**
SCALE: 1" = 1'-0" 1/A713



1 A731 **SECTION @ COUNTER**
SCALE: 1" = 1'-0" 1/A713

DWG ID#: S:\J Drive\Putnam Valley\FV_A730

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

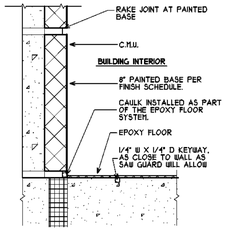
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		

CASEWORK ELEVATIONS & DETAILS

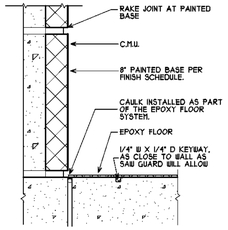
SCALE: AS NOTED
DWG. BY: JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A731

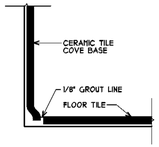
PLOT TIME: 7:11 PM



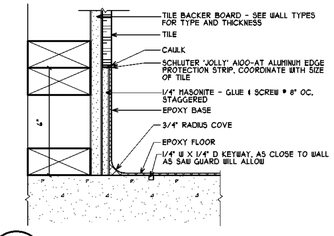
7 A801 EPOXY @ EXTERIOR C.M.U. WALL
SCALE: 3" = 1'-0"



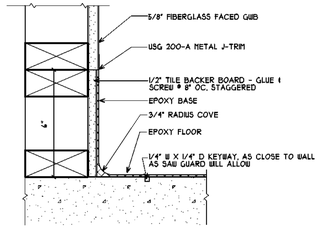
6 A800 EPOXY @ CMU INTERIOR WALL
SCALE: 3" = 1'-0"



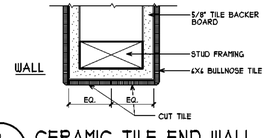
5 A800 CERAMIC TILE COVE BASE
SCALE: 3" = 1'-0"



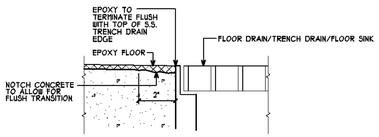
4 A800 EPOXY COVE @ WALL TILE
SCALE: 3" = 1'-0"



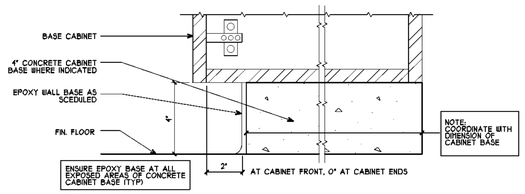
3 A800 EPOXY COVE @ GWB
SCALE: 3" = 1'-0"



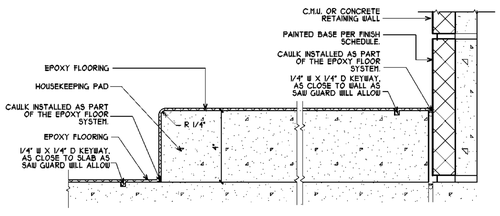
2 A800 CERAMIC TILE END WALL
SCALE: 3" = 1'-0"



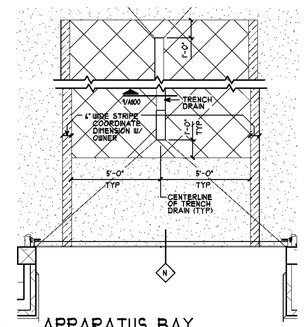
9 A800 EPOXY TERMINATION DETAIL AT TRENCH DRAIN
SCALE: 6" = 1'-0" 1/A800



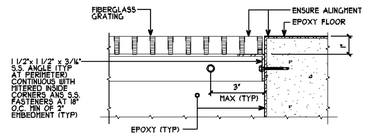
12 A800 CONCRETE @ CABINET BASE
SCALE: 1" = 1'-0" 1/A800



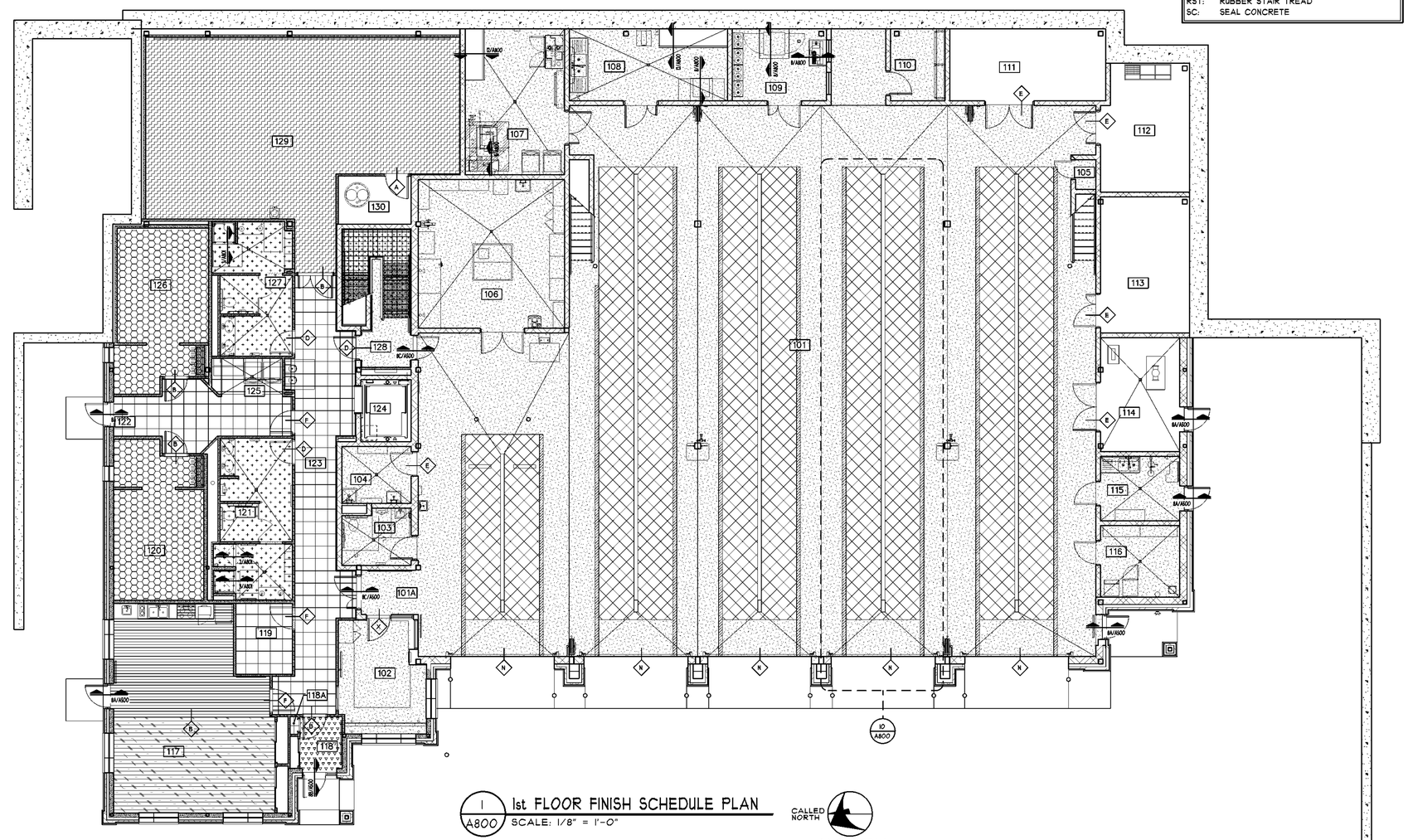
8 A800 EPOXY @ HOUSEKEEPING PAD
SCALE: 3" = 1'-0" 1/A703, 8/A703



10 A800 APPARATUS BAY EPOXY DETAILING
SCALE: 1/4" = 1'-0" 1/A800



11 A800 EPOXY TERMINATION DETAIL AT EXTRACTOR TROUGH
SCALE: 3" = 1'-0" 8B/A711



1 A800 1st FLOOR FINISH SCHEDULE PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

FLOOR FINISH LEGEND

EFC-1	RFT-1
EFC-2	RST-1
EFC-3	SC-1
EFC-4	CPT-1
EFC-5	CPT-2
RFP-1	CPT-3
RFP-2	WO-1
RFP-3	WO-2
RFP-4	CFT-1
RFP-5	CFT-2
	SF-1

PATTERN DIRECTION

SEE FINISH SCHEDULE FOR MATERIAL DETAILS.

ABBREVIATIONS KEY:

CFT:	CERAMIC FLOOR TILE
CPT:	CARPET TILE
EFC:	EPOXY FLOOR COATING
RFP:	RESILIENT FLOOR TILE
RFT:	RUBBER FLOOR TILE
RST:	RUBBER STAIR TREAD
SC:	SEAL CONCRETE

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-9410 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

1st FLOOR FINISH PLAN AND DETAILS

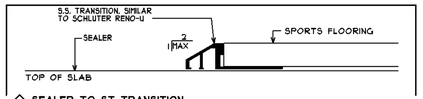
SCALE: AS NOTED
DWG. BY: JDC/JDA
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A800

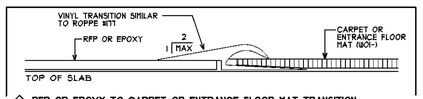
PLOT TIME: 8:31 AM

DWG ID#: S:\J Drive\Putnam Valley\PV_A800

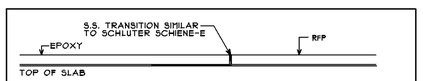
THRESHOLDS & TRANSITIONS



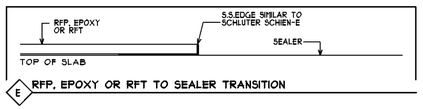
A SEALER TO ST TRANSITION



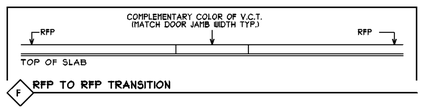
B RFP OR EPOXY TO CARPET OR ENTRANCE FLOOR MAT TRANSITION



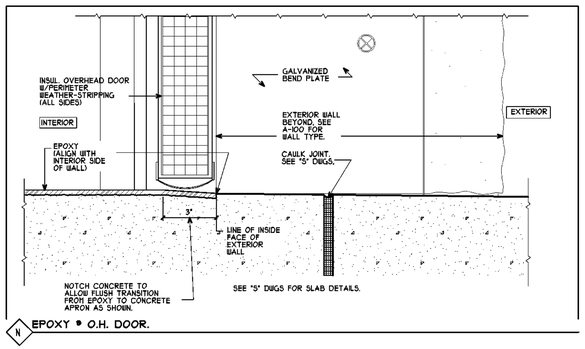
D EPOXY TO RFP TRANSITION



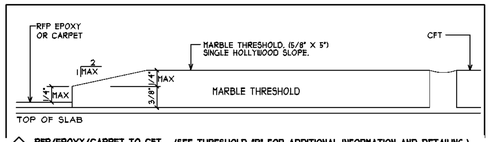
E RFP, EPOXY OR RFT TO SEALER TRANSITION



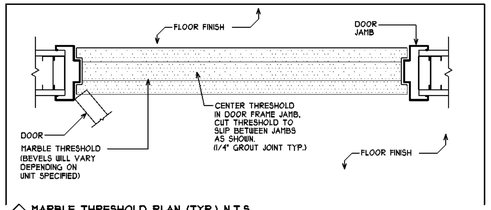
F RFP TO RFP TRANSITION



N EPOXY @ O.H. DOOR.



P RFP/EPOXY/CARPET TO CFT (SEE THRESHOLD "R" FOR ADDITIONAL INFORMATION AND DETAILING.)



R MARBLE THRESHOLD PLAN (TYP.) N.T.S.

2nd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	206	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MECHANICAL 2
205	ELEVATOR		

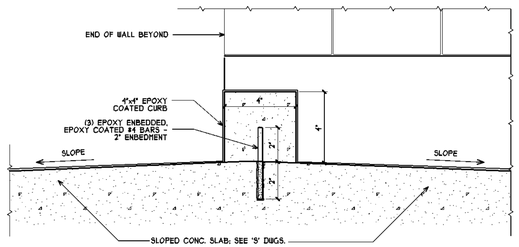
FLOOR FINISH LEGEND

EFC-1	RFT-1
EFC-2	RST-1
EFC-3	SC-1
EFC-4	CPT-1
EFC-5	CPT-2
RFP-1	CPT-3
RFP-2	WO-1
RFP-3	WO-2
RFP-4	CFT-1
RFP-5	CFT-2
	SF-1
	PATTERN DIRECTION

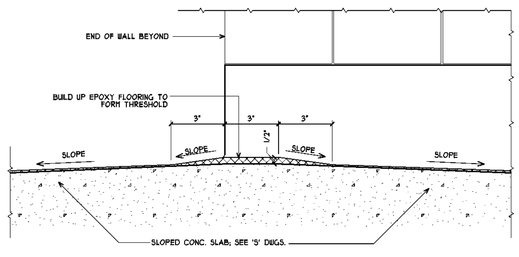
SEE FINISH SCHEDULE FOR MATERIAL DETAILS.

ABBREVIATIONS KEY:

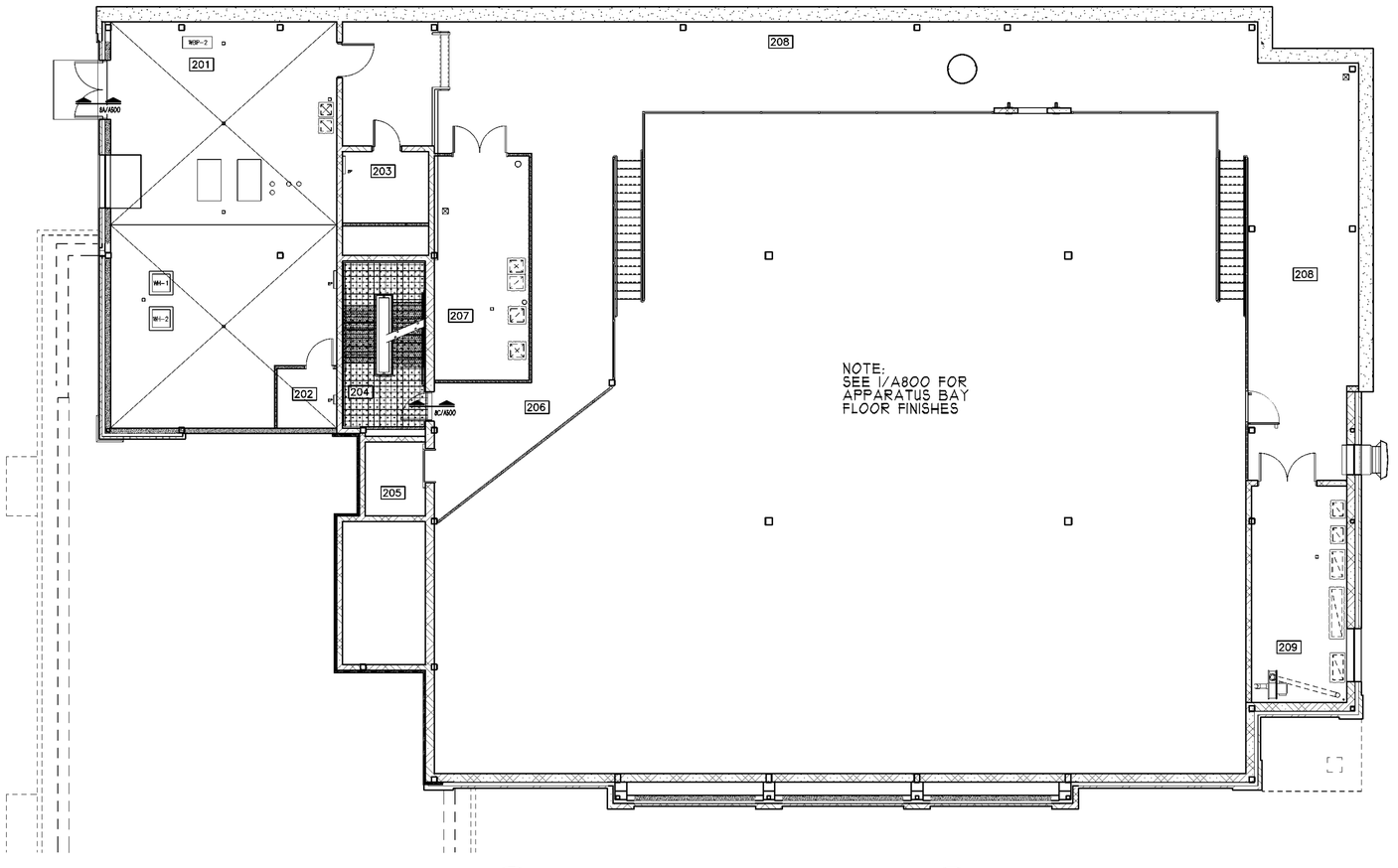
CFT:	CERAMIC FLOOR TILE
CPT:	CARPET TILE
EFC:	EPOXY FLOOR COATING
RFP:	RESILIENT FLOOR TILE
RFT:	RUBBER FLOOR TILE
RST:	RUBBER STAIR TREAD
SC:	SEAL CONCRETE



2 / A801 SHOWER FLOOR TRANSITION
SCALE: N.T.S. 1/A800



3 / A801 SHOWER FLOOR TRANSITION
SCALE: N.T.S. 1/A800



1 / A801 2nd FLOOR FINISH SCHEDULE PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

DWG ID#: S:\J Drive\Putnam Valley\PV_A800

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4511 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-4490 FAX: (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX: (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272 FAX: (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

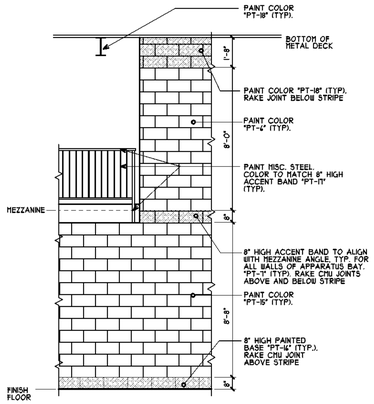
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

2nd FLOOR FINISH PLAN, THRESHOLD & TRANSITION DETAILS

SCALE: AS NOTED
DWG. BY: JDC
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A801

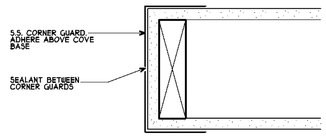
PLOT TIME: 8:28 AM



3 A802 APPARATUS BAY PAINT COLOR SCHEME

SCALE: 1/4" = 1'-0"

1/A300, 1/A301, 1/A302, 2/A100,2/A101,3/A102



2 A802 CORNER GUARD

SCALE: 3" = 1'-0"

1/A802

FLOOR FINISH LEGEND

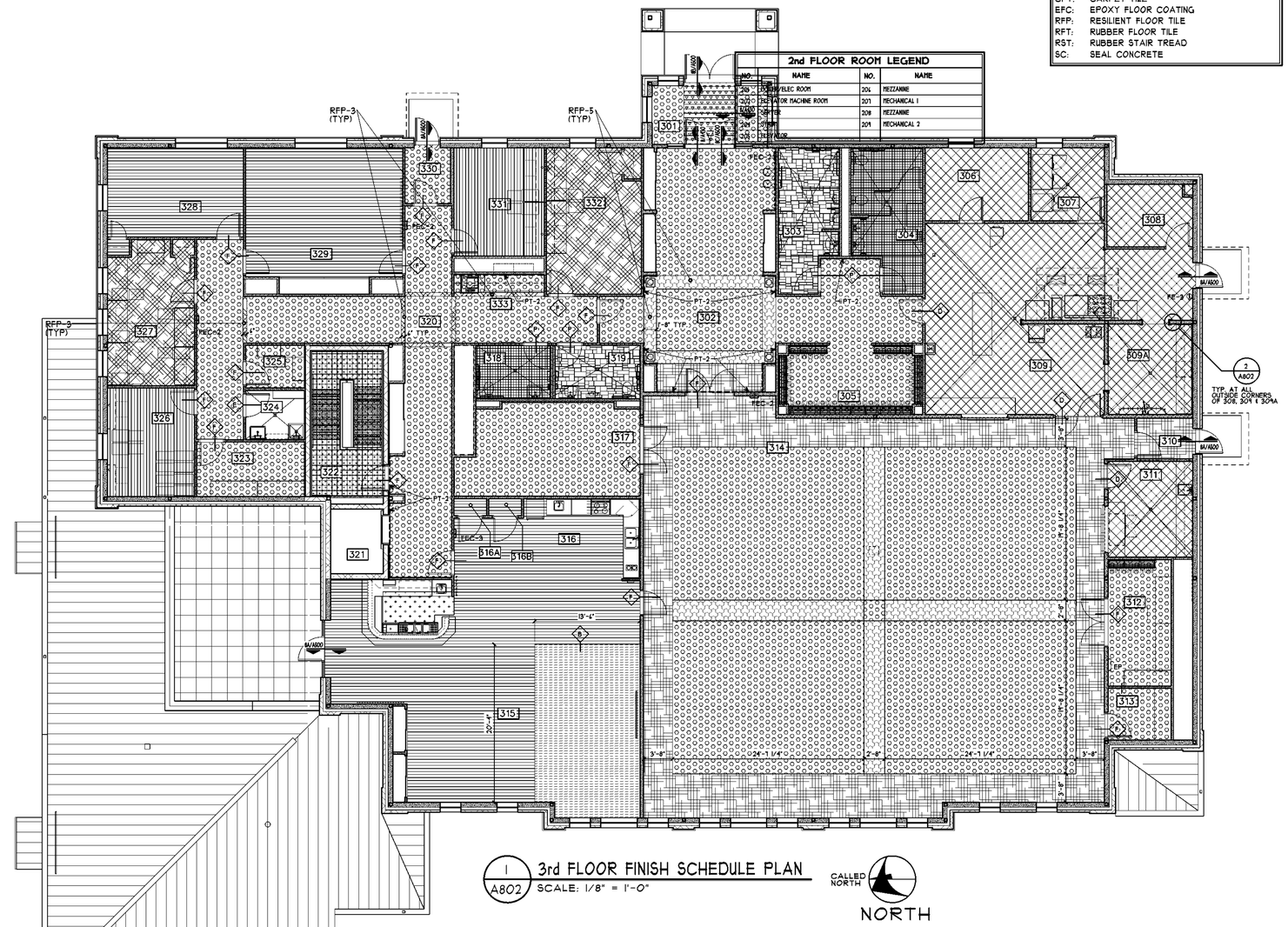
EFC-1	RFT-1
EFC-2	RST-1
EFC-3	SC-1
EFC-4	CPT-1
EFC-5	CPT-2
RFP-1	CPT-3
RFP-2	WD-1
RFP-3	WD-2
RFP-4	CFT-1
RFP-5	CFT-2
	SF-1

PATTERN DIRECTION

SEE FINISH SCHEDULE FOR MATERIAL DETAILS.

ABBREVIATIONS KEY:

CFT:	CERAMIC FLOOR TILE
CPT:	CARPET TILE
EFC:	EPOXY FLOOR COATING
RFP:	RESILIENT FLOOR TILE
RFT:	RUBBER FLOOR TILE
RST:	RUBBER STAIR TREAD
SC:	SEAL CONCRETE



1 A802 3rd FLOOR FINISH SCHEDULE PLAN

SCALE: 1/8" = 1'-0"

CALLED NORTH

NORTH

DWG ID#: S:\J Drive\Putnam Valley\PV_A800

MITCHELL ASSOCIATES ARCHITECTS PLLC
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2980
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRETT PLACE
CARMEL, NY 10512
(845) 225-7490 FAX (845) 225-9717

CRAIG A. MALONEY, P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX (518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING, AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1212 FAX (845) 291-1939

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

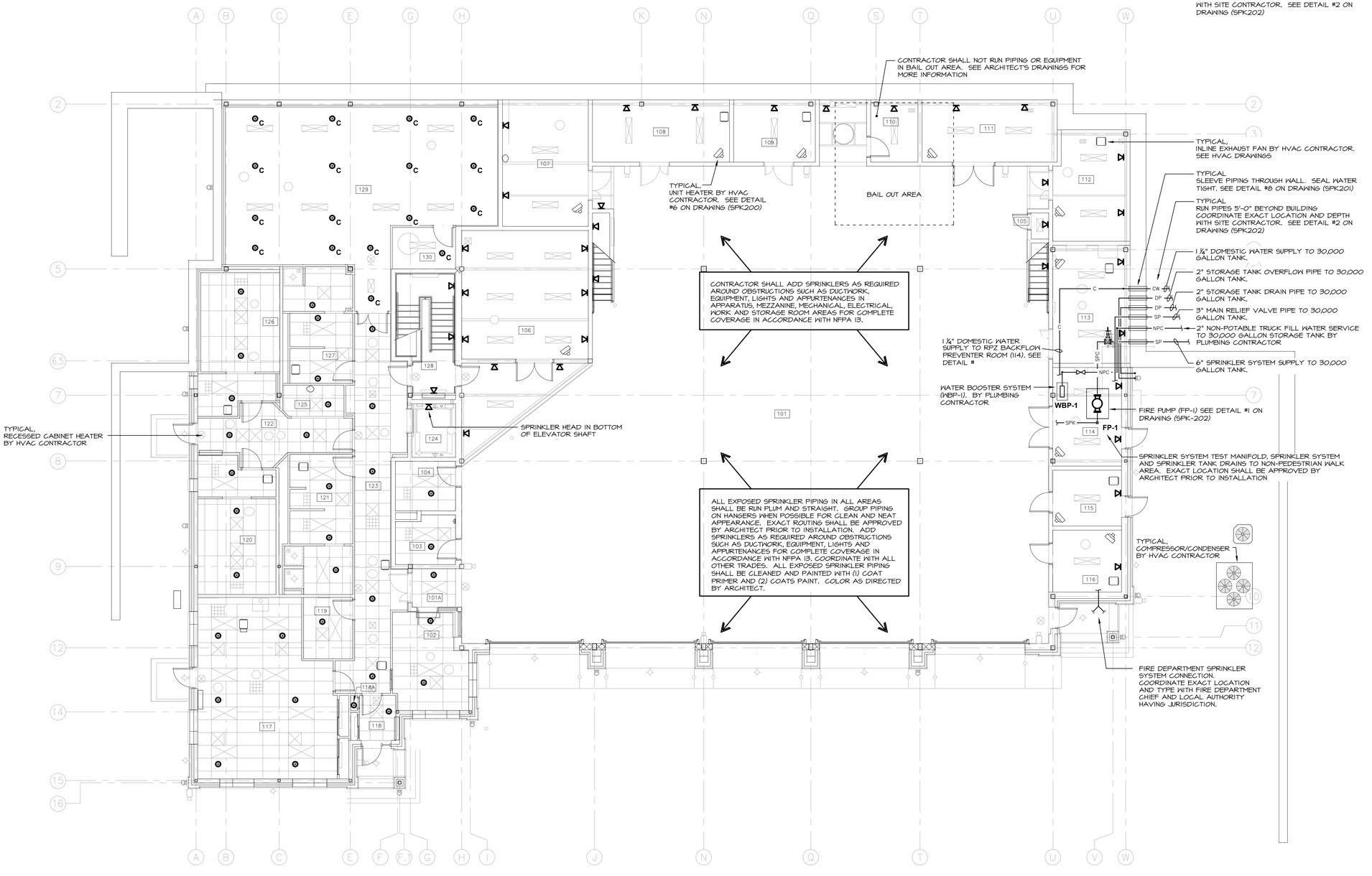
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

3rd FLOOR FINISH PLAN AND DETAILS

SCALE: AS NOTED
DWG. BY: JDC
DWG DATE: 8/14/2020
STATUS: BID DRAWINGS

A802

PLOT TIME: 4:27 PM



SEISMIC EQUIPMENT AND PIPE HANGER DESIGN

THE FIRE PROTECTION SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
SPRINKLER CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH PIPE SUPPORT, CONDUIT SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

1 SPK100 — 1st FLOOR REFLECTED CEILING PLAN
SCALE: ⅛" = 1'-0"

CALLED NORTH
NORTH

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	SPRINKLER
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	STORAGE #2	128	STAIR
114	ELECTRICAL	129	EXERCISE
115	DECON	130	PUMP ROOM

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

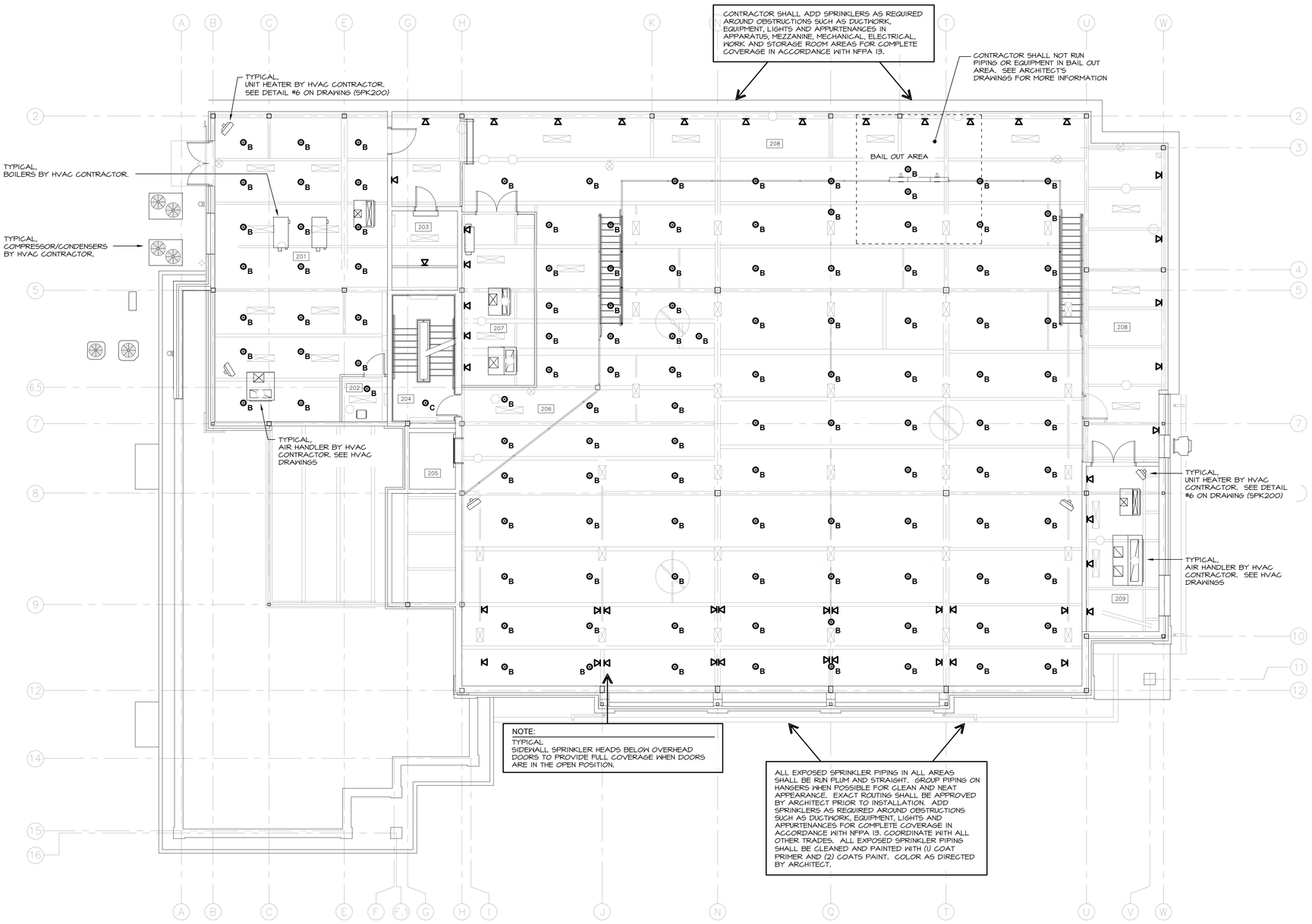
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

SPRINKLER: 1st FLOOR REFLECTED CEILING PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

SPK100



SEISMIC EQUIPMENT AND PIPE HANGER DESIGN

THE FIRE PROTECTION SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
SPRINKLER CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH PIPE SUPPORT, CONDUIT SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

1 / SPK101 — 2nd FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

2nd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	206	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	SPRINKLER 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MEZZANINE 2
205	ELEVATOR		

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

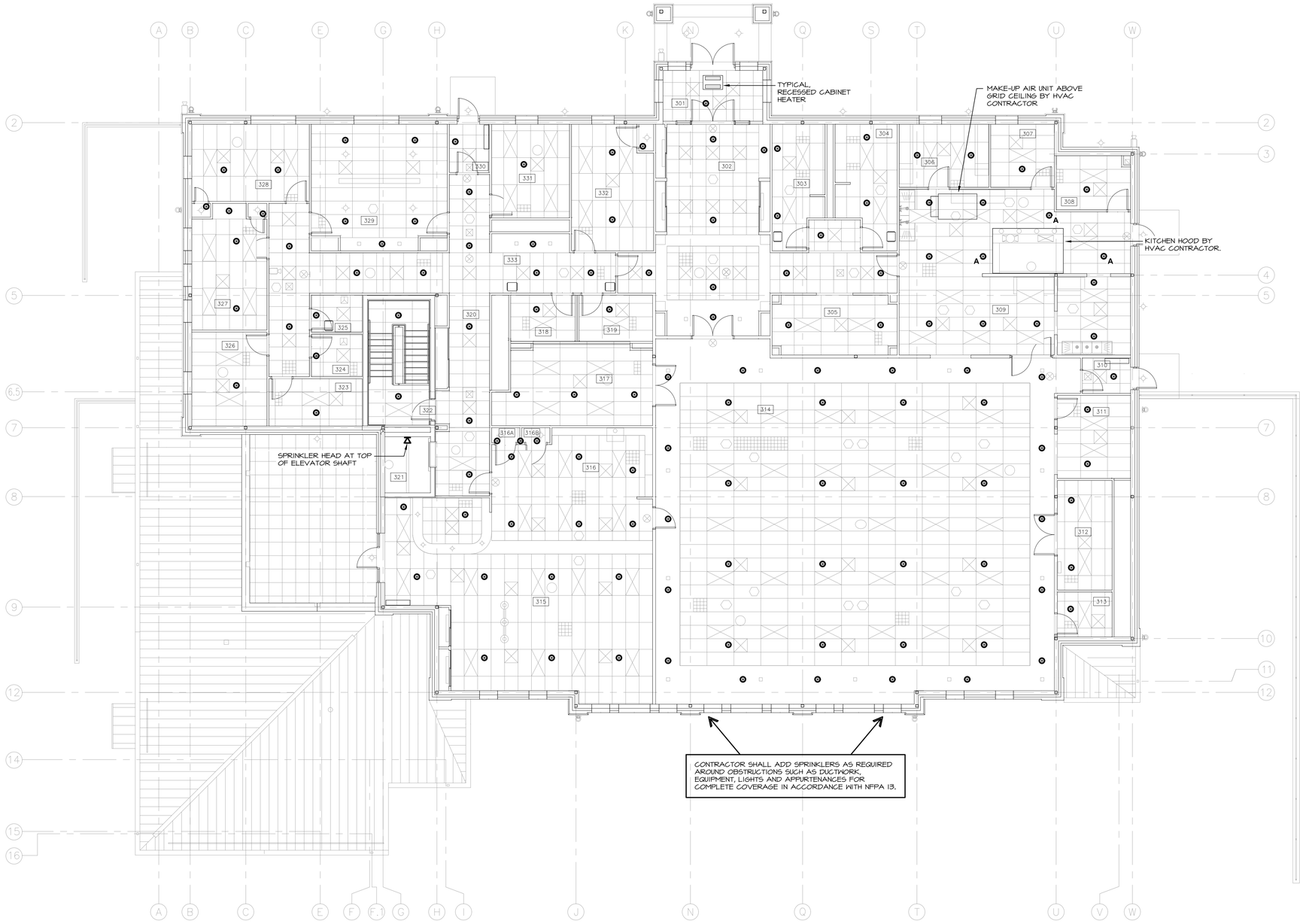
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

SPRINKLER: 2nd FLOOR REFLECTED CEILING PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

SPK101



SEISMIC EQUIPMENT AND PIPE HANGER DESIGN

THE FIRE PROTECTION SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
SPRINKLER CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH PIPE SUPPORT, CONDUIT SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

1 / SPK102 — 3rd FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

3rd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
301	VESTIBULE	316B	CLOSET
302	LOBBY	317	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	318	WOMEN'S LAVATORY
304	PUBLIC WOMEN'S LAVATORY	319	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STOR.
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSE KEEPING
310	VESTIBULE	326	ASSISTANT CHIEF'S
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEF'S OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

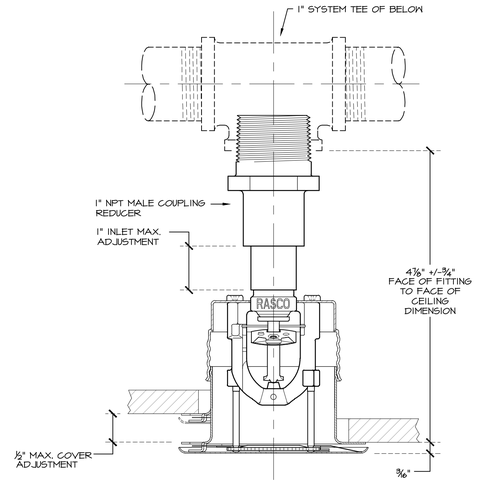
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

SPRINKLER: 3rd FLOOR REFLECTED CEILING PLAN

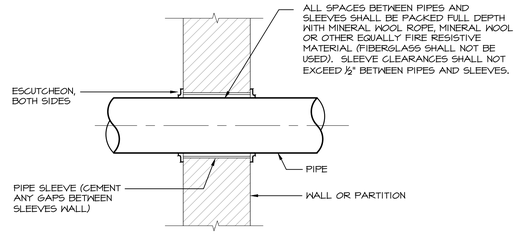
SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

SPK102



1 CONCEALED SPRINKLER HEAD DETAIL

1/SPK200 NOT TO SCALE

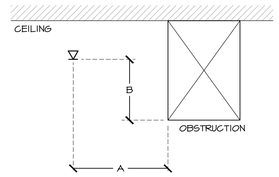


NOTE:

THIS DETAIL ALSO APPLICABLE TO INTERIOR NON-WATER PROOF FLOOR CONSTRUCTION. FOR WATER PROOF FLOOR CONSTRUCTION AND OTHER CONSTRUCTION - SEE SPECIFICATIONS.

2 FIRE RATED PARTITION AND WALL PENETRATION DETAIL

2/SPK200 NOT TO SCALE

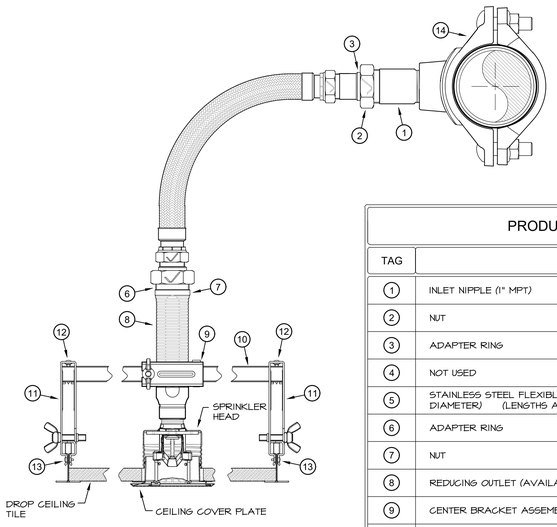


POSITIONING OF SPRINKLERS

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (IN) (B)
LESS THAN 1 FT.	0
1 FT. TO LESS THAN 1 FT. 6 IN.	2½"
1' FT. 6 IN. TO LESS THAN 2 FT.	3½"
2 FT. TO LESS THAN 2 FT. 6 IN.	5½"
2 FT. 6 IN. TO LESS THAN 3 FT.	7½"
3 FT. TO LESS THAN 3 FT. 6 IN.	9½"
3 FT. 6 IN. TO LESS THAN 4 FT.	12
4 FT. TO LESS THAN 4 FT. 6 IN.	14
4 FT. 6 IN. TO LESS THAN 5 FT.	16½"
5 FT. TO LESS THAN 5 FT. 6 IN.	18
5 FT. 6 IN. TO LESS THAN 6 FT.	20
6 FT. TO LESS THAN 6 FT. 6 IN.	24
6 FT. 6 IN. TO LESS THAN 7 FT.	30
7 FT. TO LESS THAN 7 FT. 6 IN.	35

3 SPRINKLER HEAD HORIZONTAL OBSTRUCTION CHART

3/SPK200 NOT TO SCALE

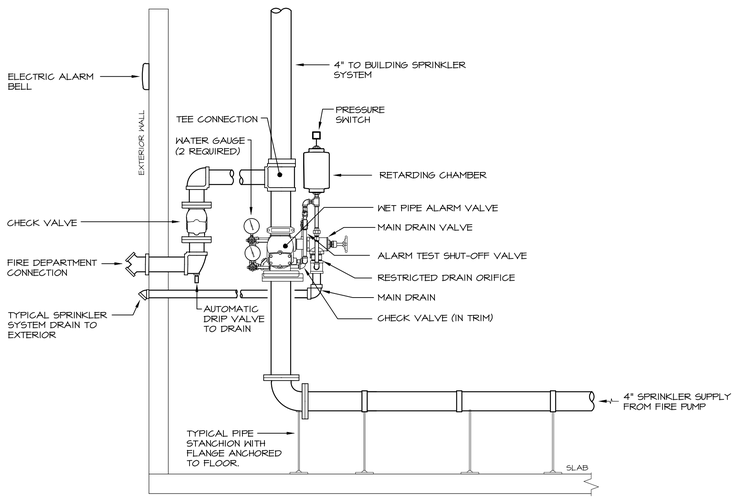


PRODUCT LEGEND

TAG	DESCRIPTION
1	INLET NIPPLE (1" MPT)
2	NUT
3	ADAPTER RING
4	NOT USED
5	STAINLESS STEEL FLEXIBLE UNBRAIDED HOSE (1/8" NOMINAL DIAMETER) (LENGTHS AVAILABLE 31", 36", 48", 60", & 72")
6	ADAPTER RING
7	NUT
8	REDUCING OUTLET (AVAILABLE 1/2" OR 3/4" FMPT)
9	CENTER BRACKET ASSEMBLY
10	SQUARE BAR (AVAILABLE IN 24" AND 48" LENGTHS)
11	END BRACKET ASSEMBLY
12	SHEET METAL SCREW
13	#8 X 1/2-INCH SELF-TAPPING SCREW
14	MECHANICAL-T OUTLET

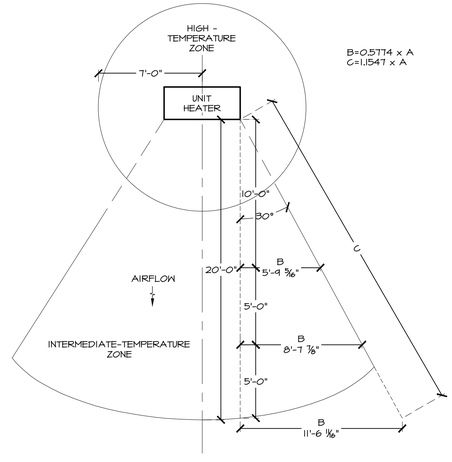
4 TYPICAL FLEXIBLE HOSE SPRINKLER ASSEMBLIES FOR CONCEALED PENDANT SPRINKLERS

4/SPK200 NOT TO SCALE



5 WET PIPE SPRINKLER SYSTEM RISER SCHEMATIC

5/SPK200 NOT TO SCALE



6 SPRINKLER TEMPERATURE ZONES AT UNIT HEATERS

6/SPK200 NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

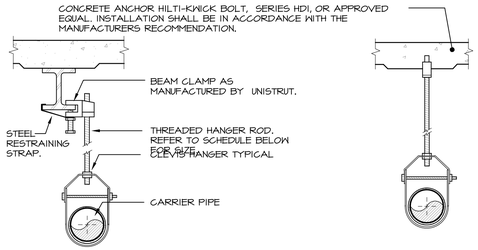
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

SPRINKLER: DETAILS

SCALE:	AS NOTED
DWG. BY:	KC
DWG. DATE:	8/14/2020
STATUS:	BID DRAWINGS

SPK200



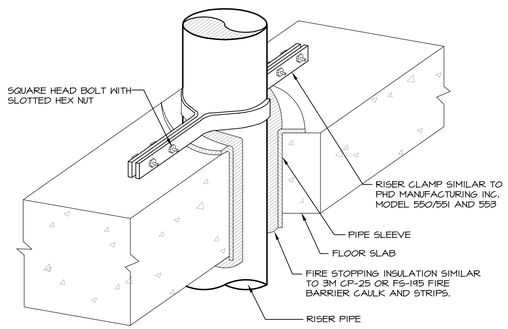
PIPE HANGER SCHEDULE						
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"	
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"	

NOTES:

1. GLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 1009SH ON ALL PIPES LARGER THAN 1".
2. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.

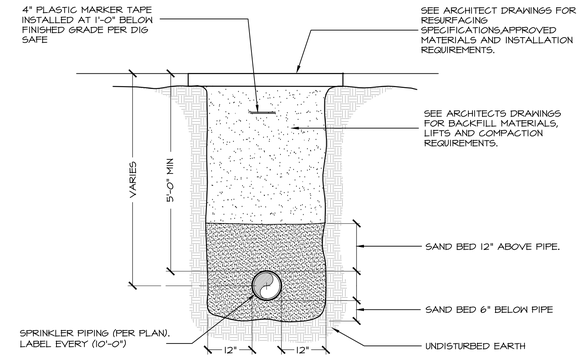
1 SPK201 PIPE HANGER DETAIL

NOT TO SCALE



2 SPK201 PIPE PENETRATION THROUGH FLOOR DETAIL

NOT TO SCALE

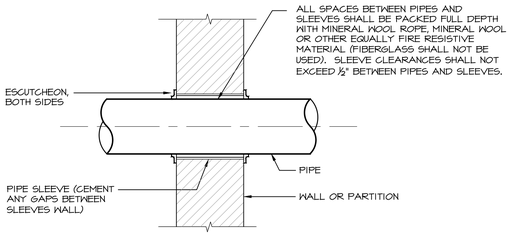


NOTES:

1. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS & SLAB.
2. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
3. 5'-0" MIN COVER SHALL BE APPLIED TO SPRINKLER MAIN.

3 SPK201 WATER/SPRINKLER PIPING TRENCH DETAIL

NOT TO SCALE

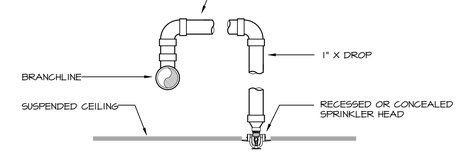


NOTE:

THIS DETAIL ALSO APPLICABLE TO INTERIOR NON-WATER PROOF FLOOR CONSTRUCTION. FOR WATER PROOF FLOOR CONSTRUCTION AND OTHER CONSTRUCTION - SEE SPECIFICATIONS.

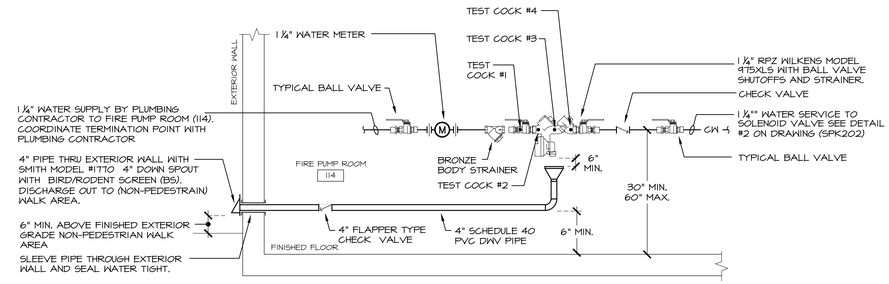
4 SPK201 FIRE RATED PARTITIONS & WALLS

NOT TO SCALE



5 SPK201 TYPICAL ARM-OVER DETAIL

NOT TO SCALE



NOTE:

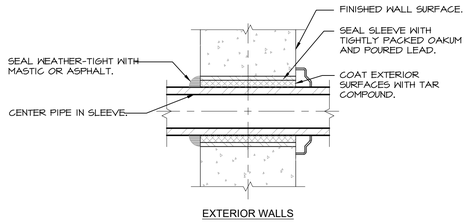
SUPPORT PIPING AND RPZ BACKFLOW PREVENTER OFF FLOOR WITH PIPE STANCHIONS AND ANCHOR TO FLOOR.

REQUIRED CLEARANCES (RPZ)

1. FRONT OF RPZ (2'-6") MINIMUM
2. BEHIND RPZ (8") MINIMUM
3. DISCHARGE PORT (1'-6") MINIMUM ABOVE FINISHED FLOOR
4. BACKFLOW PREVENTER MINIMUM (2'-6") ABOVE FINISHED FLOOR
5. BACKFLOW PREVENTER MAXIMUM (5'-0") ABOVE FINISHED FLOOR
6. ABOVE BACKFLOW PREVENTER MINIMUM (12")

6 SPK201 TANK FILL WATER SERVICE DETAIL

NOT TO SCALE



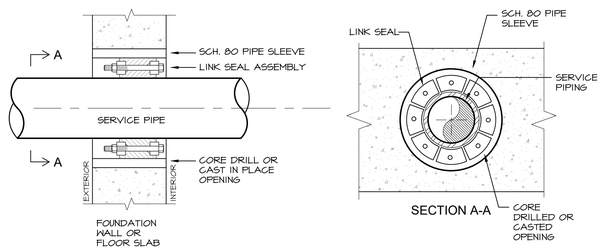
EXTERIOR WALLS

NOTE:

1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE GRADE.

7 SPK201 EXTERIOR WALL PIPE PENETRATION DETAIL

NOT TO SCALE

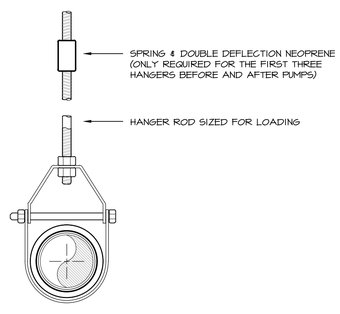


NOTES:

1. SEAL ASSEMBLY BASED ON THUNDERLINE MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, COMPOSITE PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & ORGANIC COATED NUTS AND BOLTS RATED FOR AN OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
2. USE LINK SEAL AT ALL LOCATIONS WHERE PIPES PENETRATE NEW OR EXISTING FOUNDATION WALLS AND SLABS ON GRADE.

8 SPK201 LINK SEAL DETAIL

NOT TO SCALE



9 SPK201 HANGER DETAIL

NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE

FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA0901

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

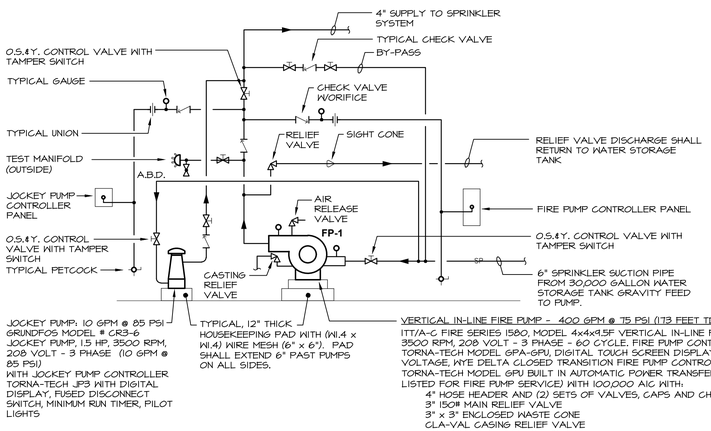
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

SPRINKLER: DETAILS

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

SPK201



NOTES:

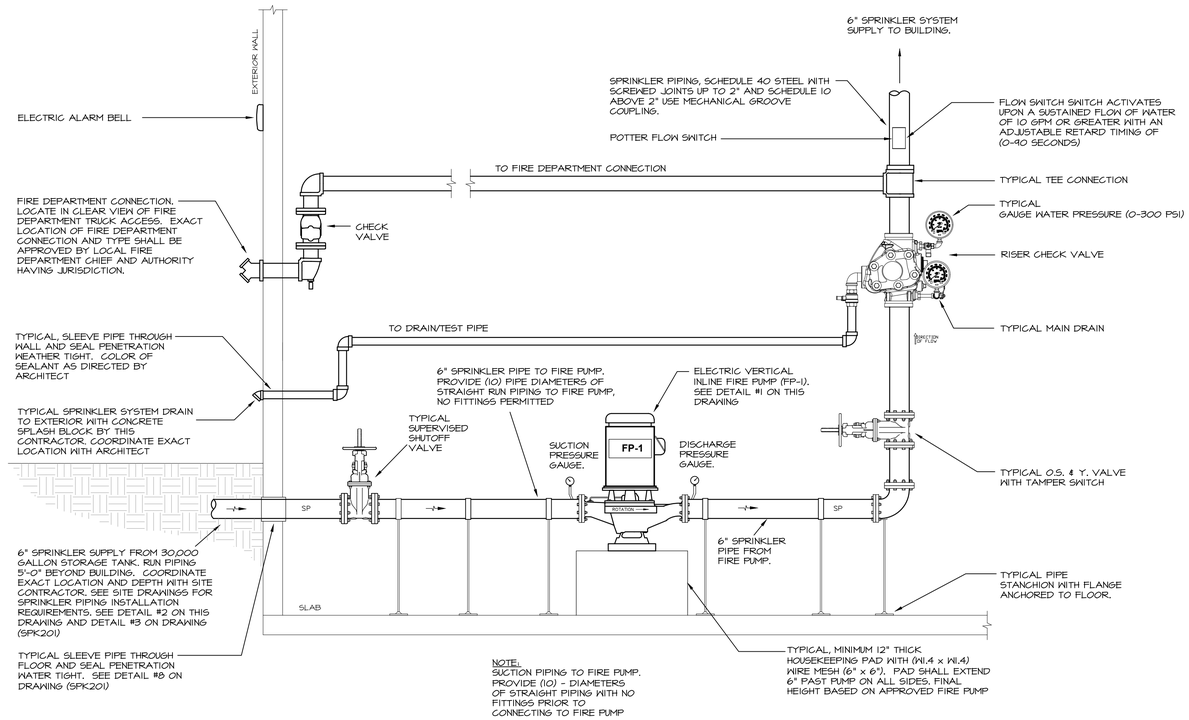
1. THE FIRE PUMP AND THE JOCKEY PUMP MUST HAVE SEPARATE PRESSURE SENSING LINES.
2. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR POWER CONNECTIONS TO FIRE PUMP CONTROLLER AND JOCKEY PUMP CONTROLLER. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR ALL POWER AND CONTROL WIRING FROM FIRE PUMP CONTROLLER AND JOCKEY PUMP EQUIPMENT AND APPURTENANCES. SYSTEM SHALL BE COMPLETE AND OPERABLE.

ALARM SIGNAL NOTES

1. CONTRACTOR SHALL INTERFACE WITH WATER STORAGE TANK LEVEL CONTROL PANEL. CONNECT CONTROL PANEL SPRINKLER LOW WATER LEVEL ALARM TO FIRE PUMP CONTROL PANEL.
2. CONTRACTOR SHALL FURNISH & INSTALL LOW PUMP-ROOM TEMPERATURE ALARM. INTERFACE LOW TEMPERATURE ALARM WITH FIRE PUMP CONTROL PANEL.
3. SEE SPECIFICATION SECTION 213900 CONTROLLERS FOR FIRE PUMP DRIVERS FOR ALARM AND STATUS INDICATORS. OUTPUT CONTACTS FROM FIRE PUMP CONTROLLER, PUMP OR MOTOR RUNNING, LOSS OF PHASE, PHASE REVERSAL, CONTROLLER CONNECTED TO ALTERNATE POWER SOURCE, EMERGENCY ISOLATING SWITCH OPEN, COMMON TROUBLE ON CONTROLLER AND FIRE ALARM PANEL SHALL EACH BE CONNECTED TO 24 HOUR MONITORING COMPANY.

1 SPK202 FIRE PUMP SCHEMATIC

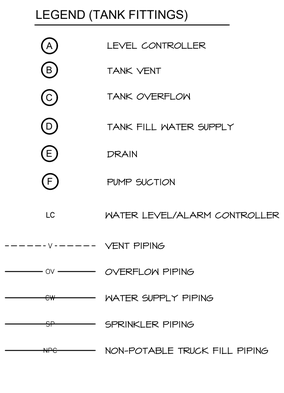
NOT TO SCALE

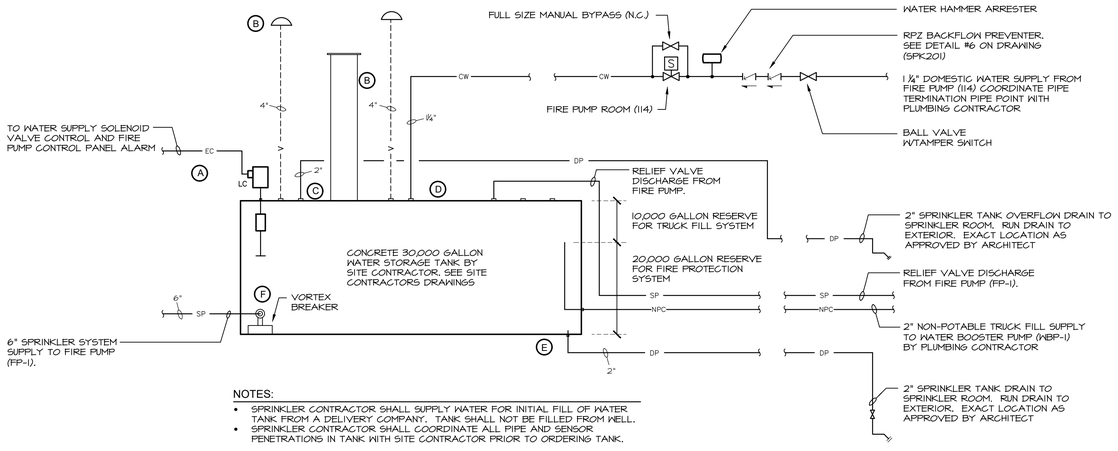


PIPING ARRANGEMENTS INDICATE GENERAL CONFIGURATION OF MAJOR COMPONENTS. SOME DETAILS AND SPECIALTIES HAVE BEEN OMITTED FOR CLARITY. REFER TO NFPA-20, MANUFACTURER'S REQUIREMENTS, 2020 FIRE AND PLUMBING CODES OF NYS FOR COMPLETE DETAILS AND SPECIALTIES.

3 SPK202 WET PIPE SPRINKLER SYSTEM RISER SCHEMATIC

NOT TO SCALE





NOTES:

- SPRINKLER CONTRACTOR SHALL SUPPLY WATER FOR INITIAL FILL OF WATER TANK FROM A DELIVERY COMPANY. TANK SHALL NOT BE FILLED FROM WELL.
- SPRINKLER CONTRACTOR SHALL COORDINATE ALL PIPE AND SENSOR PENETRATIONS IN TANK WITH SITE CONTRACTOR PRIOR TO ORDERING TANK.

2 SPK202 WATER TANK PIPING DETAIL

NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE

FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 BENEDICT PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA01901

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR

PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

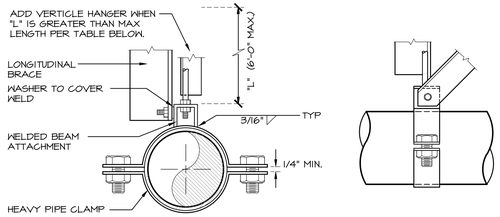
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

SPRINKLER: DETAILS

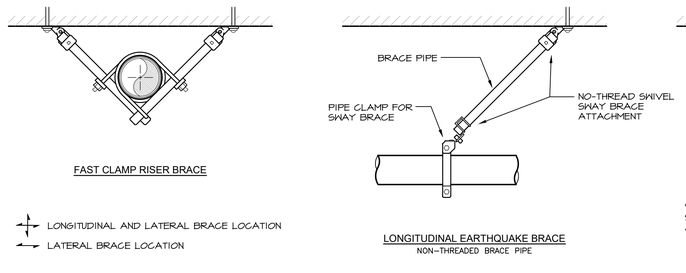
SCALE:	AS NOTED
DWG. BY:	KC
DWG. DATE:	8/14/2020
STATUS:	BID DRAWINGS

SPK202

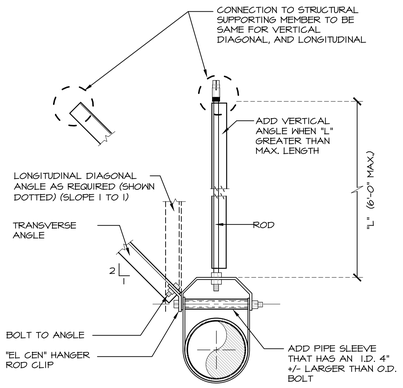


BRACE SPACING	PIPE	ROD	MAX. ROD LENGTH	VERT. HANGERS	TRANSVERSE HANGERS	BOLT
80'	2½"	½"	25"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
80'	3'	½"	25"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
80'	4'	⅝"	31"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
80'	6'	¾"	37"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
80'	8'	⅞"	43"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"

1 SPK202 LONGITUDINAL SEISMIC BRACING
NOT TO SCALE

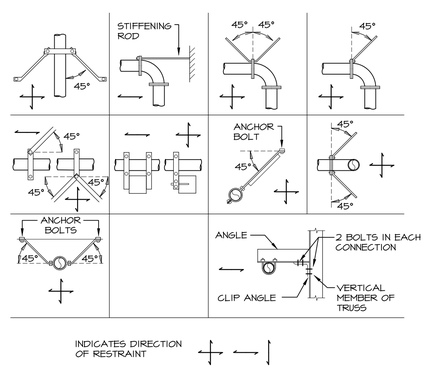


2 SPK202 SEISMIC HANGER DETAILS
NOT TO SCALE

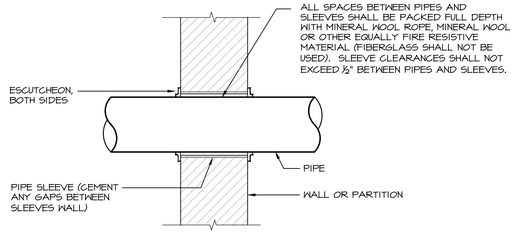


BRACE SPACING	PIPE	ROD	MAX. ROD LENGTH	VERT. HANGERS	TRANSVERSE HANGERS	BOLT
40'	2½"	½"	25"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
40'	3'	½"	25"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
40'	4'	⅝"	31"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
40'	6'	¾"	37"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
40'	8'	⅞"	43"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"

3 SPK202 TRANSVERSE SEISMIC PIPE BRACING
NOT TO SCALE



4 SPK202 SEISMIC SWAY BRACING (GENERAL)
NOT TO SCALE



NOTE:
THIS DETAIL ALSO APPLICABLE TO INTERIOR NON-WATER PROOF FLOOR CONSTRUCTION. FOR WATER PROOF FLOOR CONSTRUCTION AND OTHER CONSTRUCTION - SEE SPECIFICATIONS.

5 SPK202 FIRE RATED PARTITION AND WALL PENETRATION DETAIL
NOT TO SCALE

SEISMIC EQUIPMENT AND PIPE HANGER DESIGN

THE FIRE PROTECTION SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
SPRINKLER CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH PIPE SUPPORT, CONDUIT SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
IMPORTANCE FACTOR - 1.5
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

SPRINKLER: DETAILS

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

SPK203

GENERAL SPRINKLER NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERATIVE AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM, INCLUDING MAIN VALVES AND TIE-INS WITH FIRE ALARM SYSTEM AS NECESSARY TO COMPLY WITH NFPA 13 SPRINKLER SYSTEM.
2. ALL SPRINKLER SYSTEM AND FIRE PUMP WORK SHALL BE INSTALLED IN ACCORDANCE WITH 2020 FIRE, BUILDING AND PLUMBING CODE OF THE STATE OF NEW YORK, NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 13, 20, 22, 72, AND ALL APPLICABLE LOCAL CODES.
3. CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, VALVES, SPRINKLER HEADS, TESTS, HANGERS, FITTINGS AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE SPRINKLER SYSTEM COMPLETE, OPERABLE, AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS.
4. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PIPING, SPRINKLER HEADS AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID CONFLICTS.
5. CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH HILTI INTUMESCENT FIRE STOP MATERIALS TO MAINTAIN FIRE AND SMOKE RATINGS.
6. CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER, AND AGREES TO REPLACE DEFECTIVE WORK AT NO ADDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD.
7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL EQUIPMENT, SPRINKLER HEADS AND PIPING WITH HYDRAULIC CALCULATIONS TO ENGINEER AND LOCAL FIRE INSPECTOR FOR APPROVAL PRIOR TO INSTALLATION.
8. DEMONSTRATE NEW SPRINKLER SYSTEM TO OWNER AND REVIEW MAINTENANCE PROCEDURES. SUBMIT (2) EQUIPMENT MANUALS TO ENGINEERS. PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH WALL, FLOORS, AND CEILINGS IN FINISHED AREAS.
9. CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS TO ENSURE CONCEALMENT OF ALL PIPING IN WALLS, FLOORS AND CEILINGS.
10. CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTIONS FEES REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
11. CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT.
12. CONTRACTOR IS RESPONSIBLE FOR CUTTING, PATCHING AND PAINTING ASSOCIATED WITH SPRINKLER WORK. SEE ARCHITECT'S SPECIFICATIONS AND GENERAL CONDITIONS FOR APPROVED MATERIALS AND METHODS.
13. EXACT LOCATION OF FIRE DEPARTMENT CONNECTION, TYPE AND SPRINKLER SYSTEM TEST/DRAIN SHALL BE APPROVED BY LOCAL FIRE DEPARTMENT CHIEF, LOCAL FIRE INSPECTOR OR AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
14. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND OBSERVE ALL CLEARANCES.
15. ALL CONTROL WIRING SHALL BE IN ACCORDANCE WITH N.E.C. ELECTRICAL CODE AND ALL LOCAL CODES. ALL CONDUCTORS SHALL BE COPPER, 120V/1 - MINIMUM CONDUCTOR SIZE #12, 24V MINIMUM CONDUCTOR SIZE #18. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION METHODS.
16. CONTRACTOR SHALL OBSERVE CLEARANCES TO OBSTRUCTIONS.
17. CONTRACTOR SHALL CHAIN CONTROL VALVE IN THE OPEN POSITION.
18. CONTRACTOR SHALL FURNISH SHOP DRAWINGS INDICATING LOCATIONS OF ALL EQUIPMENT AND DEVICES.
19. CONTRACTOR SHALL FURNISH & INSTALL SPRINKLER CABINET WITH MINIMUM SIX SPARE SPRINKLER HEADS AND WRENCH. INCLUDE SEPARATE CABINET WITH SPRINKLERS AND WRENCH FOR EACH TYPE OF HEAD ON PROJECTION IN ACCORDANCE WITH NFPA 13.
20. CONTRACTOR SHALL FURNISH & INSTALL KNOX BOX AND EXTERIOR INDICATING LIGHTS AS REQUIRED BY AUTHORITY HAVING JURISDICTION.
21. CONTRACTOR SHALL FURNISH COORDINATED SHOP DRAWINGS INDICATING LOCATIONS OF ALL EQUIPMENT AND DEVICES INSTALLED IN CEILINGS. THESE DRAWINGS SHALL BE APPROVED BY ALL CONTRACTORS PRIOR TO INSTALLING ANY EQUIPMENT IN CEILINGS. CONTRACTORS THAT DO NOT FOLLOW SHOP DRAWINGS SHALL BEAR ALL COSTS FOR RELOCATING DEVICES AND EQUIPMENT IN CONFLICT WITH OTHER EQUIPMENT.
22. CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ALL VALVES CONCEALED IN INACCESSIBLE CEILINGS AND WALLS. SEE ARCHITECTS SPECIFICATIONS FOR APPROVED MANUFACTURERS AND TYPES. ACCESS DOORS SHALL HAVE (1) PRIME COAT AND (2) COATS OF FINISHED PAINT. COLOR AS DIRECTED BY ARCHITECT. ACCESS DOOR SHALL HAVE APPROPRIATE FIRE RATING TO MAINTAIN INTEGRITY OF CEILING AND WALL.
23. CONTRACTOR MAY USE EXTENDED COVERAGE SPRINKLER HEADS WHERE PRESSURE AND FLOW PERMIT BASED ON HYDRAULIC CALCULATIONS.
24. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING SPRINKLER PIPING EQUIPMENT AND HEAD LOCATIONS WITH HYDRAULIC CALCULATIONS. COORDINATE SPRINKLER HEAD LOCATIONS WITH OTHER CONTRACTORS TO AVOID CONFLICTS. RELOCATE SPRINKLER HEADS TO MEET FIELD CONDITIONS. SHOP DRAWINGS SHALL SHOW SPRINKLER PIPE SIZES, PIPE HANGER REQUIREMENTS, FIRESTOPPING AND NECESSARY DETAILS REQUIRED FOR BUILDING DEPARTMENT AND INSURANCE CARRIER APPROVAL. HYDRAULIC CALCULATIONS SHALL BE BASED ON RESIDUAL FLOW TEST PERFORMED BY THIS CONTRACTOR. SUBMIT SHOP DRAWINGS WITH HYDRAULIC CALCULATION TO ENGINEER FOR APPROVAL. SHOP DRAWINGS THEN SHALL BE SUBMITTED TO BUILDING DEPARTMENT, LOCAL FIRE DEPARTMENT AND INSURANCE CARRIER FOR APPROVAL.
25. WHEN INSTALLING SPRINKLER HEADS, THE CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE BRANCH LINE CONNECTION.
26. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND FILLING THE NEW SYSTEM AS REQUIRED FOR COMPLETION OF WORK.
27. PROVIDE (2) 2½ GALLON PRESSURIZED WATER AND (1) 10 POUND ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE DURING CONSTRUCTION.
28. CONTRACTOR SHALL SUPPLY WATER FOR INITIAL FILL OF WATER TANK FROM A DELIVERY COMPANY. TANKS SHALL NOT BE FILLED FROM WELL SYSTEM.
29. SPRINKLER SYSTEM PIPING SHALL BE ALTERED AS NEEDED TO ACCOMMODATE CEILING HEIGHTS, DUCTWORK, LIGHTS AND OTHER PIPING. PROVIDE ALL REQUIRED PIPING AND FITTINGS AS NEEDED TO OFFSET SPRINKLER SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL INTERFERENCES, WHETHER SHOWN ON THE DRAWINGS OR NOT.
30. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED WITH TOLERANCE OF ±½" OF THE CENTERLINE OF THE TILES. INSTALL SPRINKLER HEADS TIGHT TO THE BOTTOM OF THE HUNG CEILING, WITH CARE THAT THE FINISH IS NOT DAMAGED. WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED, THE COVER PLATES SHALL BE FLUSH WITH THE CEILING PLANE, TOLERANCE GREATER THAN ⅛" IS UNACCEPTABLE.
31. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START-UP OF ALL NEW EQUIPMENT, CONTROLS, AND ETC. TO ENSURE CORRECT OPERATION OF INSTALLED DEVICES.
32. CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, AND RECORD (AS-BUILT) DRAWINGS OF ALL COMPLETED WORK.
33. CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLER HEADS AROUND ALL OBSTRUCTIONS SUCH AS LIGHTS, EQUIPMENT, COLUMNS, AND ETC. AS REQUIRED TO PROVIDE COMPLETE COVERAGE IN ACCORDANCE WITH NFPA 13.
34. ALL NEW HOLES IN WALLS AND FLOORS SHALL BE CORE DRILLED BY THIS CONTRACTOR. PRIOR TO CORE DRILLING FLOORS, RADAR SCAN FLOOR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, STRUCTURE AND ETC. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
35. CONTRACTOR SHALL PROVIDE ALL REQUIRED SIGNAGE FOR FIRE PROTECTION SYSTEM.
36. CONTRACTOR SHALL SEAL AROUND ALL PIPING AND SENSOR PENETRATIONS IN CONCRETE WATER STORAGE TANK WATER TIGHT. PIPE SEALING METHODS SHALL BE IN ACCORDANCE WITH TANK MANUFACTURER'S RECOMMENDATIONS.

SPRINKLER EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
⊣	TYCO	SERIES TY-FRB	SIDEWALL SPRINKLER, QUICK RESPONSE, K=5.6 - "INTERMEDIATE" TEMPERATURE CLASSIFICATION (175°F). RECESSED WHITE ESCUTCHEON PLATE.
⊙	TYCO	SERIES RFII	CONCEALED PENDENT SPRINKLER, QUICK RESPONSE, K=5.6 -"ORDINARY" TEMPERATURE CLASSIFICATION (155°F). COLOR WHITE.
⊙A	TYCO	SERIES RFII	CONCEALED PENDENT SPRINKLER, QUICK RESPONSE, K=5.6 -"INTERMEDIATE" TEMPERATURE CLASSIFICATION (200°F). COLOR WHITE.
⊙B	TYCO	SERIES TY-FRB	UPRIGHT/PENDANT SPRINKLER, QUICK RESPONSE, K=5.6 -"INTERMEDIATE" TEMPERATURE CLASSIFICATION (175°F). NATURAL BRASS, CHROME OR COLOR AS DIRECTED BY OWNER. WITH METAL WIRE GUARD
⊙C	TYCO	SERIES TY-FRB	UPRIGHT/PENDANT SPRINKLER, QUICK RESPONSE, K=5.6 -"ORDINARY" TEMPERATURE CLASSIFICATION (155°F). NATURAL BRASS, CHROME OR COLOR AS DIRECTED BY OWNER. WITH METAL WIRE GUARD
△	RELIABLE	CVE	RISER CHECK VALVE, UL LISTED, FM APPROVED, SPRING LOADED CHECK VALVE WITH RATED WORKING PRESSURE OF 300 PSI. VALVE BODY AND COVER CONSTRUCTION SHALL CONSIST OF GRAY IRON PER ASTM-A48 CLASS 30A. CHECK VALVE SHALL HAVE A THREADED-IN, ONE PIECE SEAT OF BRONZE CONSTRUCTION FOR EASE OF MAINTENANCE, AND O-RING SEALS TO PREVENT CORROSION AND LEAKAGE. CLAPPER ASSEMBLY SHALL BE DUCTILE IRON CASTING WITH BRASS BUSHING ASSEMBLY, WITH EPDM RUBBER FACING SEAL AND STAINLESS STEEL CLAMPING RING. END CONNECTIONS TO BE GROOVED. THE VALVE BODY SHALL HAVE A REMOVABLE FACEPLATE FOR EASE OF INSPECTION AND MAINTENANCE AS REQUIRED BY NFPA 25. THE RISER CHECK VALVE SHALL BE FACTORY TAPPED WITH ONE ½" AND TWO 2" NPT PLUGGED CONNECTIONS. BASIC RISER CHECK VALVE TRIM SHALL CONSIST OF GALVANIZED AND BRASS TRIM COMPONENTS, INCLUDING 2 INCH MAIN DRAIN, AND BOTH SYSTEM AND SUPPLY WATER PRESSURE GAUGES.
⊢ SP ⊣	————	————	UNDERGROUND SPRINKLER PIPING DUCTILE IRON ANSI/AWWA C151/A21.51 THICKNESS CLASS 52 350 PSI WORKING PRESSURE (CLASS 350). JOINTS/FITTINGS DUCTILE IRON ASTM A536 350 PSI WORKING PRESSURE (CLASS 350)
⊢——⊣	————	————	WET SYSTEM SPRINKLER PIPING, SCHEDULE 40 BLACK STEEL WITH SCREWED JOINTS UP TO AND INCLUDING 2" AND USE SCHEDULE 10 WITH MECHANICAL GROOVE COUPLING OVER 2".
⊢ NPC ⊣	————	————	NON-POTABLE TRUCK FILL/SUPPLY WATER PIPING, COPPER TYPE "L" WITH LEADFREE SOLDER JOINTS ABOVE GRADE AND COPPER TYPE "K" FOR UNDERGROUND PIPING. NO JOINTS PERMITTED BELOW GRADE. INSULATE UNDERGROUND WITH 1" THICK ELASTOMERIC INSULATION. INSULATE ALL ABOVE GROUND PIPING WITH ½" THICK FIBERGLASS PIPE INSULATION WITH VAPOR PROOF JACKET, TAPED JOINTS AND PVC FITTING COVERS. EXPOSED PIPING SHALL BE COVERED WITH PVC PIPE COVER AND PAINTED. (1) - COAT PRIMER, (2) COATS - PAINT. COLOR AS DIRECTED BY ARCHITECT
⊢ DP ⊣	————	————	SPRINKLER TANK DRAIN/OVERFLOW/NONPOTABLE WATER PIPING, COPPER TYPE "L" WITH LEADFREE SOLDER JOINTS ABOVE GRADE AND BRAZED JOINTS" FOR UNDERGROUND PIPING. INSULATE ALL ABOVE GROUND PIPING WITH ½" THICK FIBERGLASS PIPE INSULATION WITH VAPOR PROOF JACKET, TAPED JOINTS AND PVC FITTING COVERS. EXPOSED PIPING SHALL BE COVERED WITH PVC PIPE COVER AND PAINTED. (1) - COAT PRIMER, (2) COATS - PAINT. COLOR AS DIRECTED BY ARCHITECT

NOTES:

1. SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE METAL WIRE GUARDS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE.
3. ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS. COORDINATE HEATING EQUIPMENT LOCATIONS WITH MECHANICAL PLANS.
4. SPRINKLER CONTRACTOR SHALL FURNISH & INSTALL SHIELDS ON SPRINKLERS THAT CANNOT BE SUFFICIENTLY SPACED TO AVOID DISCHARGE INTERACTION.
5. FINAL K-FACTOR OF SPRINKLER HEADS BASED UPON HYDRAULIC CALCULATION REQUIREMENTS.

SPRINKLER SYSTEM REQUIREMENTS

OCCUPANCY CLASSIFICATIONS

1. NFPA 13 LIGHT HAZARD OCCUPANCY: OFFICE & MEETING
2. NFPA 13 ORDINARY GROUP 1: BOILER ROOM, APPARATUS ROOM, KITCHEN PREP AREA, AND STORAGE AREAS.

WET SPRINKLER SERVICE REQUIREMENTS

1. NFPA 13 ORDINARY HAZARD:
   A. MINIMUM WATER SUPPLY (1500 SQFT. x .15 GPM/SQFT.) 225 GPM
   B. TOTAL COMBINED INSIDE AND OUTSIDE HOSE STREAMS. 0 GPM
   (PRIVATE WATER TANK) MINIMUM 225 GPM

FINAL FLOW BASED ON APPROVED HYDRAULIC CALCULATIONS

SPRINKLER SYSTEM REQUIREMENTS

1. MINIMUM PRESSURE AT SPRINKLER HEAD SHALL BE 7 PSI UNLESS NOTED OTHERWISE.
2. FLOW VELOCITY IN PIPING SHALL NOT EXCEED 20 FPS.
3. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13.
4. LIGHT HAZARD MAXIMUM SPRINKLER HEAD PROTECTION AREA: 225 SQFT.
5. ORDINARY GROUP 1 & 11 MAXIMUM SPRINKLER HEAD PROTECTION AREA: 130 SQFT.
6. MAXIMUM FLOOR AREA PROTECTION LIMIT: LIGHT & ORDINARY HAZARD 52,000 SQFT.

WATER STORAGE REQUIREMENTS

NFPA 13 ORDINARY HAZARD GROUP 1: 330 GPM @ 60 MINUTES = 19,800 GALLONS

COMBINED SPRINKLER/TRUCK FILL WATER STORAGE (30,000 GALLONS)
SPRINKLER = 20,000 GALLONS
TRUCK FILL = 10,000 GALLONS

SPRINKLER SYSTEM TESTS

1. HYDROSTATIC - 200 PSI FOR 2 HOURS WITHOUT LOSS OF PRESSURE.
2. SYSTEM OPERATIONAL TESTS - WATER FLOW DETECTING DEVICES.
3. MAIN DRAIN VALVE - STATIC AND RESIDUAL PRESSURES.
4. CONTRACTOR SHALL PERFORM ALL SPRINKLER SYSTEM TESTS REQUIRED BY LOCAL FIRE INSPECTOR OR AUTHORITY HAVING JURISDICTION.
5. ALL TESTS SHALL BE WITNESSED BY LOCAL FIRE INSPECTOR OR AUTHORITY HAVING JURISDICTION. SUBMIT REPORT ON ALL TESTS TO LOCAL FIRE INSPECTOR AND ENGINEER FOR APPROVAL.

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4511 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE

FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
8 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA0901

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

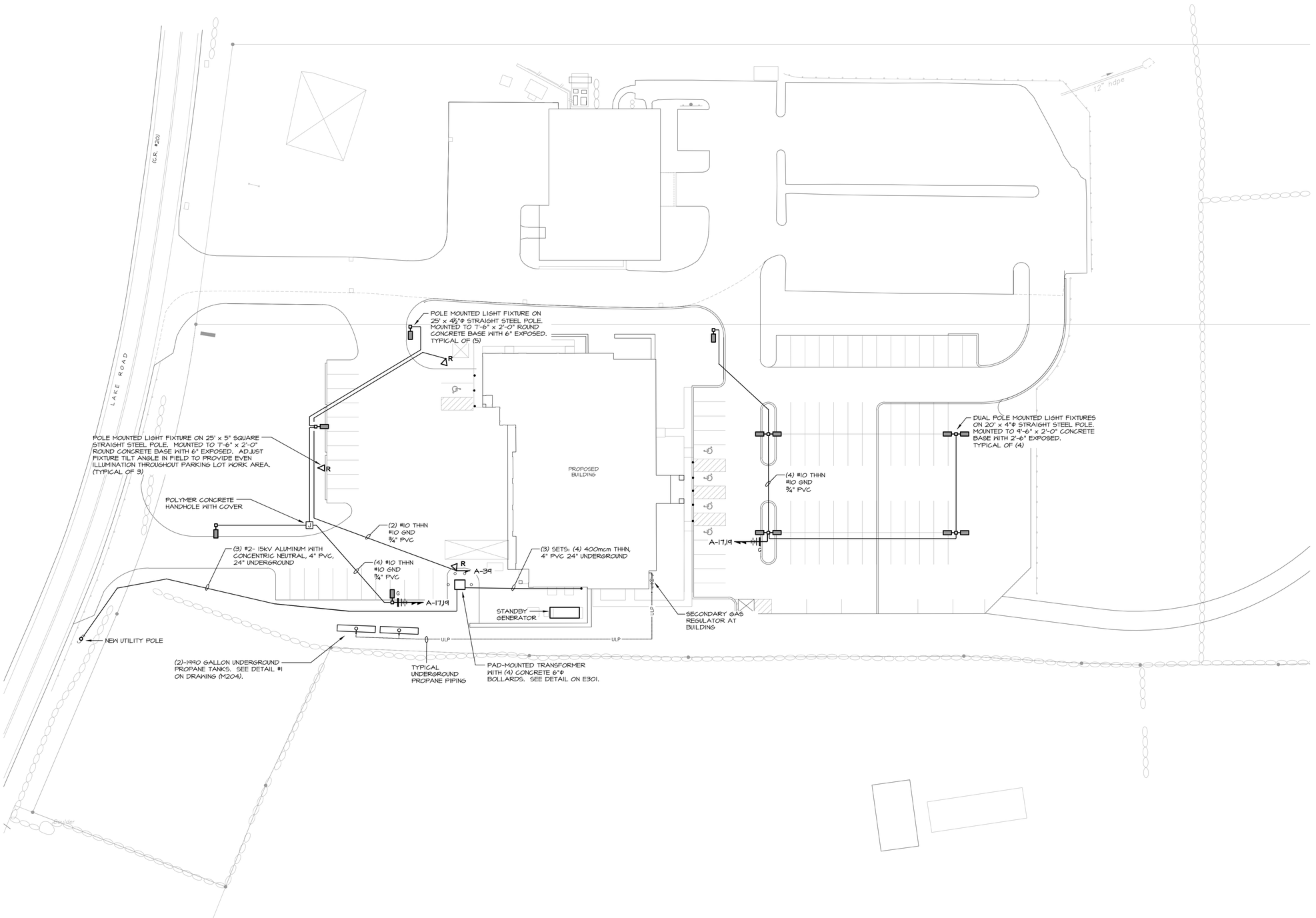
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

SPRINKLER: EQUIPMENT SCHEDULES

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

SPK300



1 MEP SITE PLAN

SCALE: 1" = 30'-0"

CALLED NORTH

NORTH

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

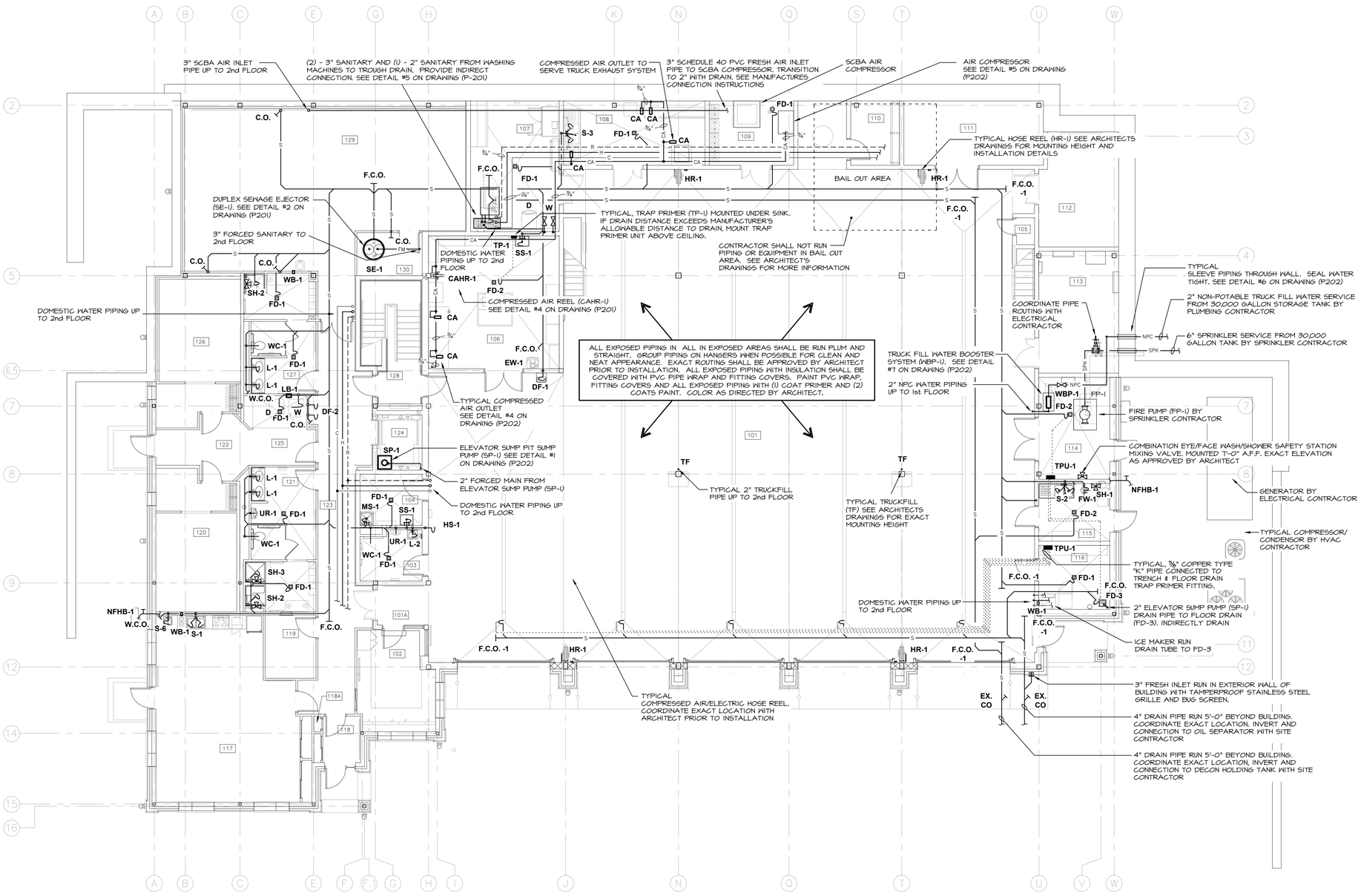
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MEP: SITE PLAN

SCALE:	AS NOTED
DWG. BY:	KC
DWG. DATE:	8/14/2020
STATUS:	BID DRAWINGS

MEP1



SEISMIC EQUIPMENT AND PIPE HANGER DESIGN

THE PLUMBING SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
PLUMBING CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH EQUIPMENT SUPPORT, PIPE SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SEISMIC DESIGN CATEGORY - C

1 / P100 — 1st FLOOR PLAN
SCALE: ⅛" = 1'-0"

CALLED NORTH
NORTH

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA04011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

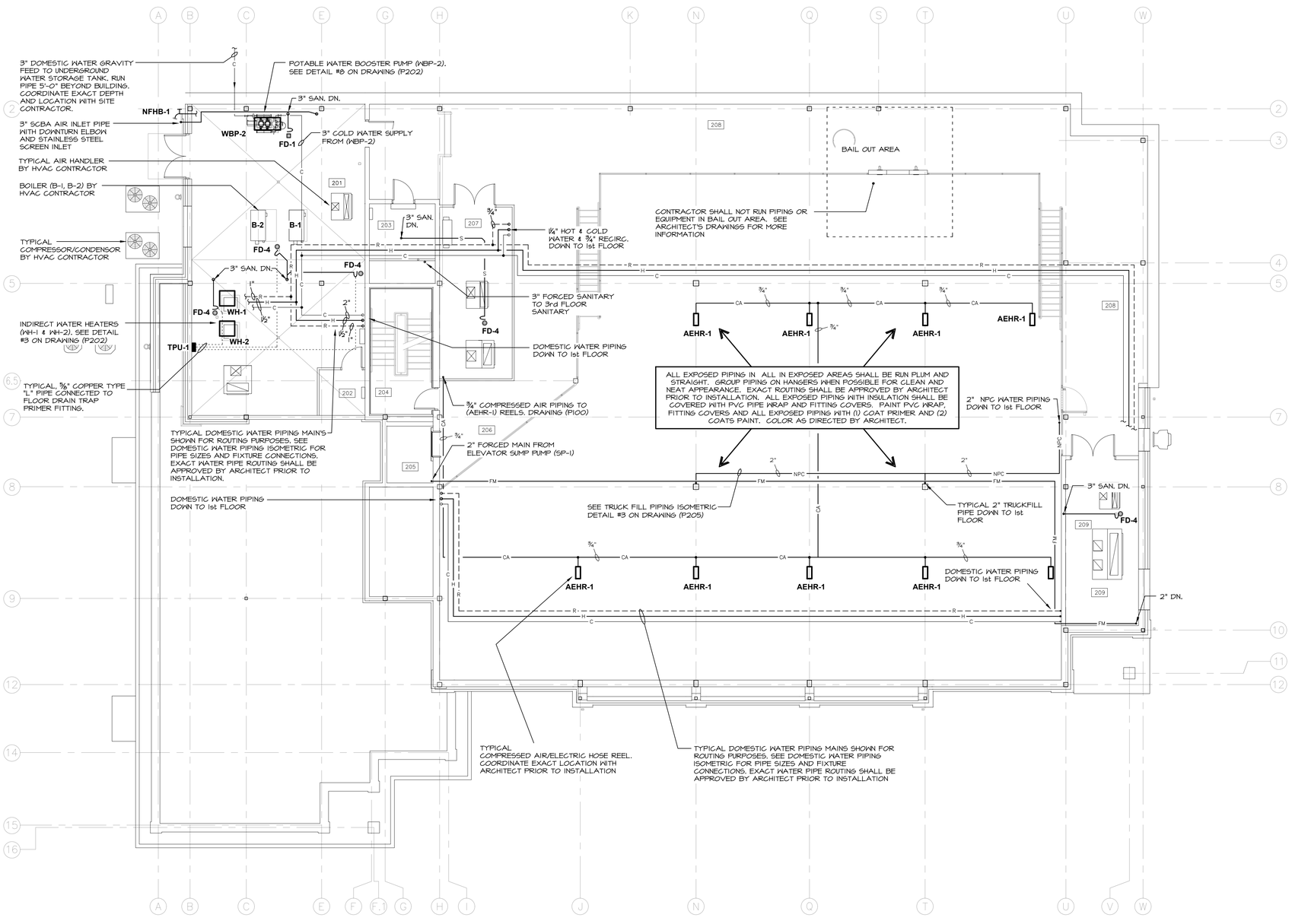
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLUMBING:
1st FLOOR PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

P100



SEISMIC EQUIPMENT AND PIPE HANGER DESIGN

THE PLUMBING SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
PLUMBING CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH EQUIPMENT SUPPORT, PIPE SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

1 / P101 — 2nd FLOOR PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

2nd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	206	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MEZZANINE 2
205	ELEVATOR		

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

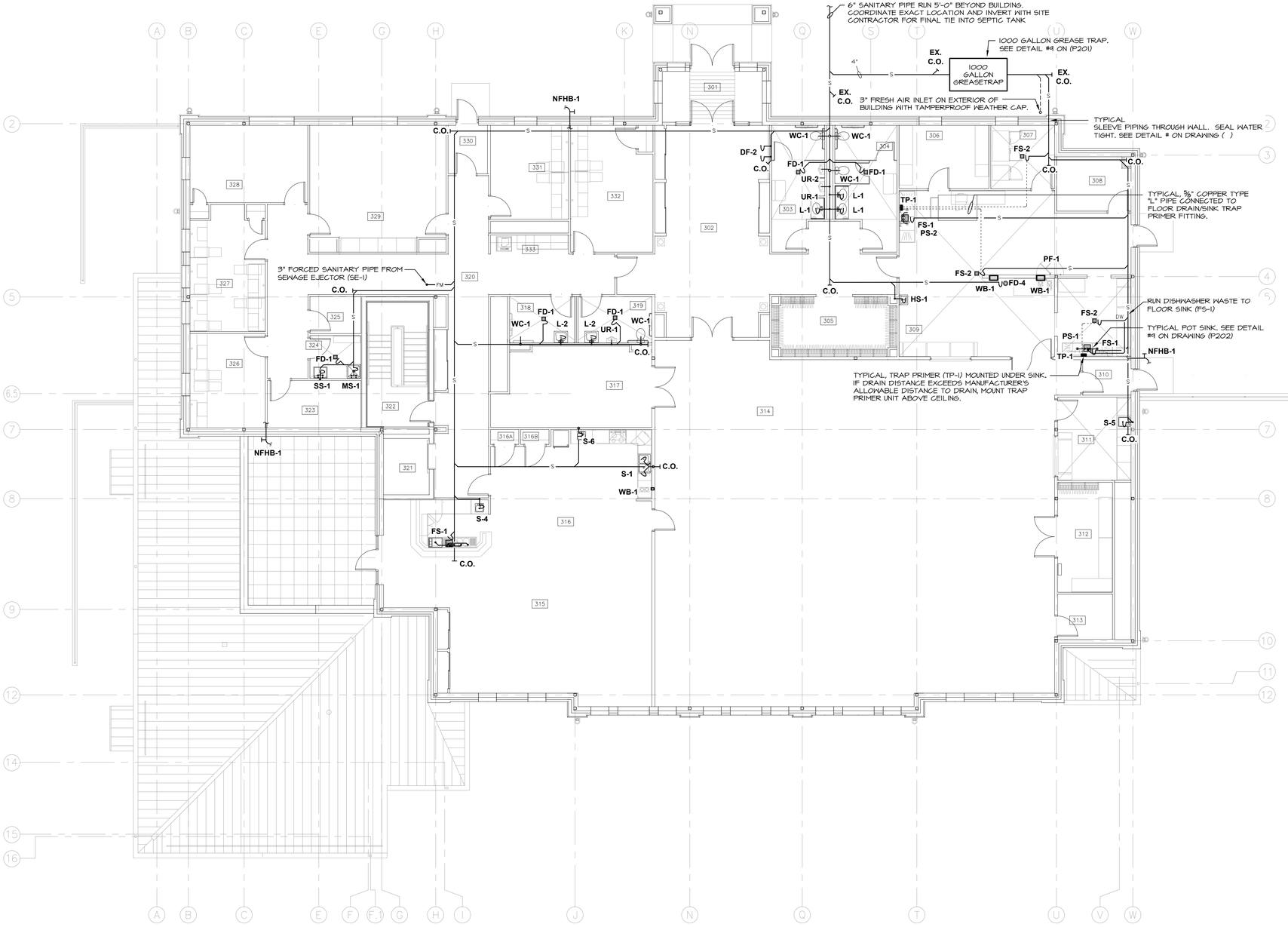
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLUMBING: 2nd FLOOR PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

P101



SEISMIC EQUIPMENT AND PIPE HANGER DESIGN

THE PLUMBING SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
PLUMBING CONTRACTOR SHALL HIRE NY'S LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH EQUIPMENT SUPPORT, PIPE SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

1 / P102 — 3rd FLOOR PLAN
SCALE: ⅛" = 1'-0"

CALLED NORTH
NORTH

3rd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
301	VESTIBULE	316B	CLOSET
302	LOBBY	317	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	318	WOMEN'S LAVATORY
304	PUBLIC WOMEN'S LAVATORY	319	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STOR.
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSE KEEPING
310	VESTIBULE	326	ASSISTANT CHIEFS
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEFS OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

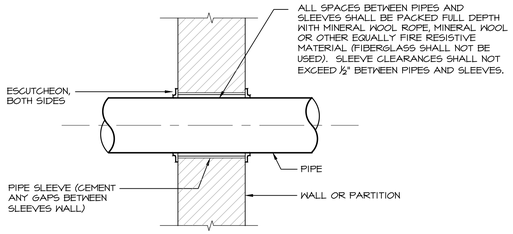
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLUMBING: 3rd FLOOR PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

P102

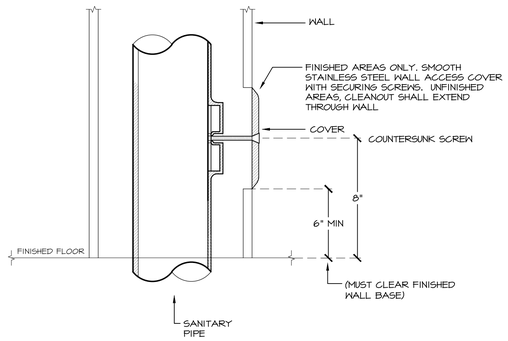


NOTE:

THIS DETAIL ALSO APPLICABLE TO INTERIOR NON-WATER PROOF FLOOR CONSTRUCTION. FOR WATER PROOF FLOOR CONSTRUCTION AND OTHER CONSTRUCTION - SEE SPECIFICATIONS.

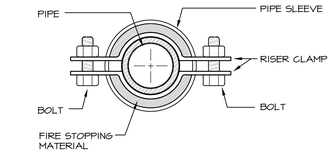
1 P200 FIRE RATED PARTITIONS & WALLS

NOT TO SCALE



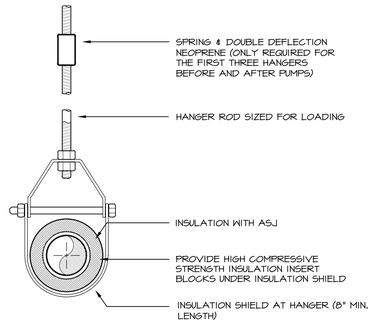
2 P200 WALL CLEANOUT DETAIL

NOT TO SCALE



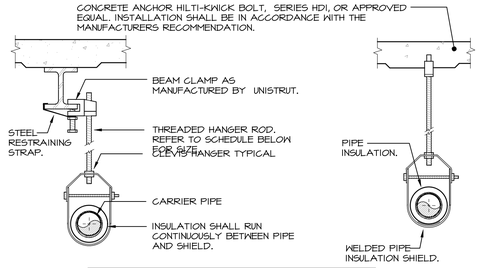
3 P200 SUPPORT ANCHOR PIPE RISERS

NOT TO SCALE



4 P200 PIPE HANGER DETAIL

NOT TO SCALE



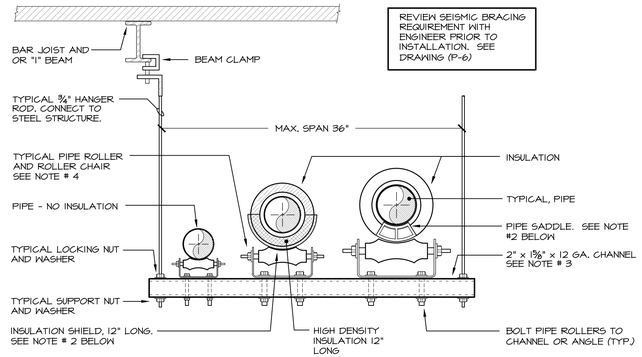
PIPE HANGER SCHEDULE						
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"	
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"	

NOTES:

1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 1005H ON ALL PIPES LARGER THAN 1".
2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

5 P200 PIPE HANGER DETAIL

NOT TO SCALE

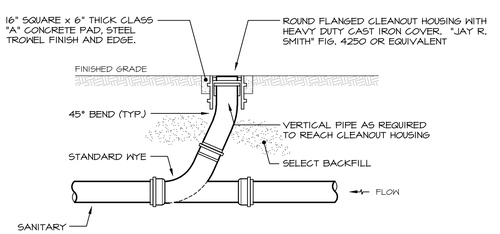


NOTES:

1. ATTACH HANGERS TO THE STEEL STRUCTURE ABOVE.
2. PROVIDE INSULATION SHIELD OR PIPE SADDLE BASED ON THE PIPING SYSTEM AND PIPE SIZE AS INDICATED IN THE SPECIFICATIONS.
3. TRAPEZE TYPE HANGER SHALL BE USED FOR A MAXIMUM 1,000 LB UNIFORM LOAD.
4. ELIMINATE PIPE ROLLERS AND ROLLER CHAIRS AT ANCHOR POINTS

6 P200 TRAPEZE TYPE HANGER INSTALLATION DETAIL

NOT TO SCALE

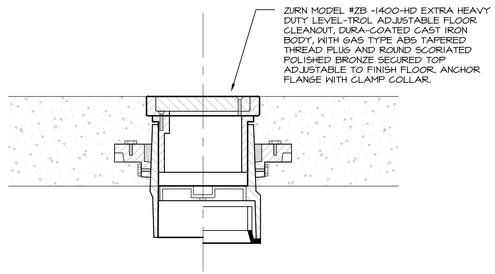


NOTES:

1. SANITARY SEWER PIPING AND FITTINGS SHALL BE OF THE MATERIAL INDICATED ON THE PLANS.
2. CLEANOUT LOCATION SHALL BE AS SHOWN ON PLANS.

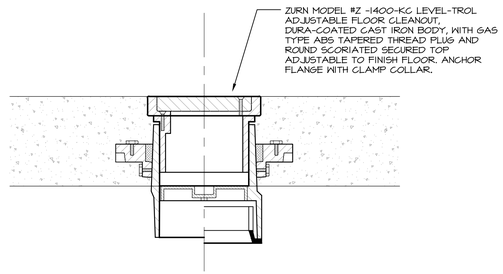
7 P200 EXTERIOR CLEANOUT (EX.C.O.) DETAIL

NOT TO SCALE



8 P200 INTERIOR FLOOR CLEANOUT (F.C.O.-1) VEHICLE/TRUCK TRAFFIC DETAIL

NOT TO SCALE



9 P200 INTERIOR FLOOR CLEANOUT (F.C.O.) PEDESTRIAN TRAFFIC DETAIL

NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

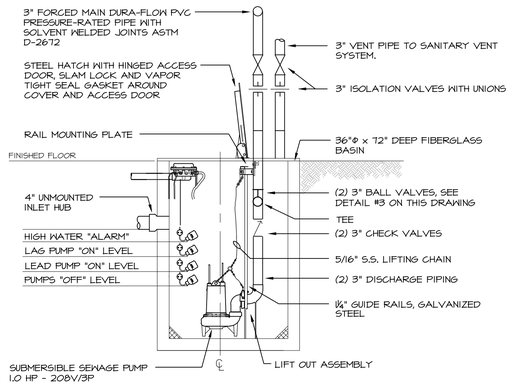
OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY		
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLUMBING: DETAILS

SCALE:	AS NOTED
DWG. BY:	KC
DWG. DATE:	8/14/2020
STATUS:	BID DRAWINGS

P200



NOTES:

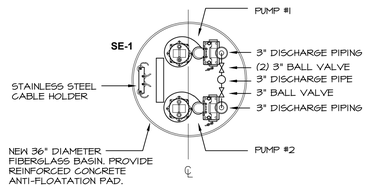
1. SEWAGE EJECTOR IS CONNECTED TO THE EMERGENCY GENERATOR.
2. SEWAGE EJECTOR CONTROL PANEL IS EQUIPPED WITH AN AUDIBLE AND VISUAL ALARM. FIELD LOCATED IN MECHANICAL ROOM

1 P201 DUPLEX SEWAGE EJECTOR (SE-1) DETAIL

NOT TO SCALE

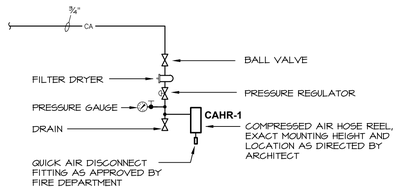
DUPLEX SEWAGE PUMP SYSTEM (SE-1)	
QUANTITY	DESCRIPTION
2	LEH10312-2 SEWAGE PUMPS, 1 HP, 208 V, 3 PHASE, CAPACITIES OF 200 GPM HEADS TO 53' TDH, 25' POWER CORD
1	AE34=3-511 NEMA 4X DUPLEX ALTERNATING CONTROL PANEL INCLUDING THREE FLOATS, AUX, CONTACTS, AND INTEGRAL AUDIO/VISUAL HIGH LEVEL ALARM
1	36" DIA. x 72" H FIBERGLASS BASIN WITH ANTI-FLOATATION FLANGE WITH 3" TOP DISCHARGE
1	36" STEEL GLASS TIGHT HATCH COVER (1) 3" DISCHARGE FLANGE (1) 3" VENT FLANGE, (1) 2" ELECTRICAL FLANGE
2	GUIDE RAIL ASSEMBLY, INCLUDING GR22-LE GUIDE RAIL, 1¼" GALVANIZED STEEL RAILS, 5/5 LIFTING CHAIN, ETC.
1	(1) 4" UNMOUNTED INLET HUB
1	MISCELLANEOUS HARDWARE AND PLUMBING, INCLUDING PVC BALL VALVES, PVC CHECK VALVES, FLOAT BRACKET, PVC DISCHARGE PIPE, ETC.
1	JBTO JUNCTION BOX, WITH WATERTIGHT CABLE CONNECTIONS AND 2" CONDUIT COUPLING.

LIBERTY PUMPS MODEL # EPS6181T4, 36"x72" DUPLEX LEH10312-2 SEWAGE SYSTEM



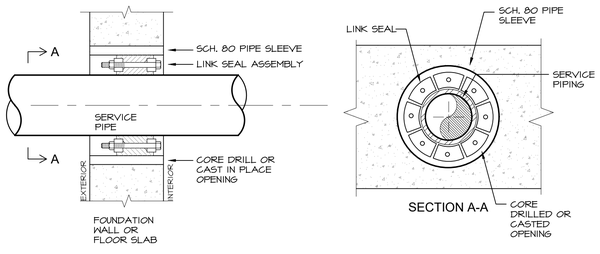
2 P201 DUPLEX SEWAGE EJECTOR (SE-1) PLAN DETAIL

NOT TO SCALE



4 P201 COMPRESSED AIR HOSE REEL DETAIL

NOT TO SCALE

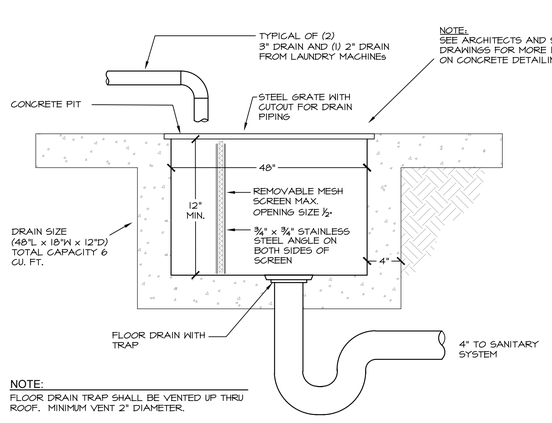


NOTES:

1. SEAL ASSEMBLY BASED ON THUNDERLINE MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, COMPOSITE PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & ORGANIC COATED NUTS AND BOLTS RATED FOR AN OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
2. USE LINK SEAL AT ALL LOCATIONS WHERE PIPES PENETRATE NEW OR EXISTING FOUNDATION WALLS AND SLABS ON GRADE.

7 P201 LINK SEAL DETAIL

NOT TO SCALE

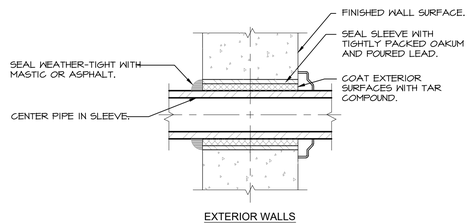


NOTE:

FLOOR DRAIN TRAP SHALL BE VENTED UP THRU ROOF. MINIMUM VENT 2" DIAMETER.

5 P201 TROUGH DETAIL

NOT TO SCALE

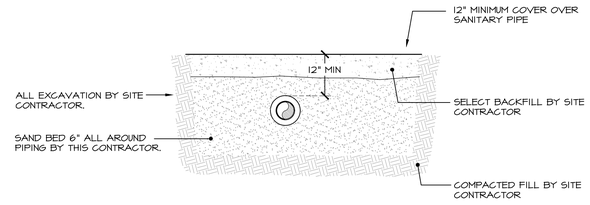


NOTE:

1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE GRADE.

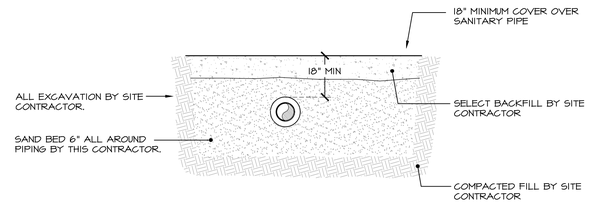
8 P201 EXTERIOR WALL PIPE PENETRATION DETAIL

NOT TO SCALE



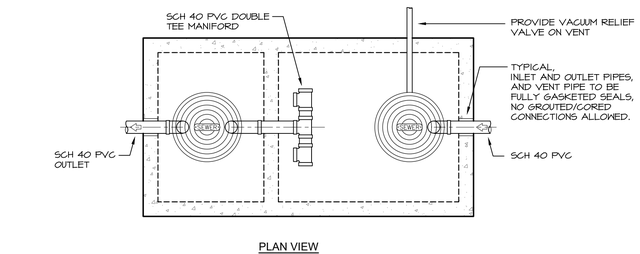
3 P201 INSIDE BUILDING SANITARY PIPING DETAIL

NOT TO SCALE

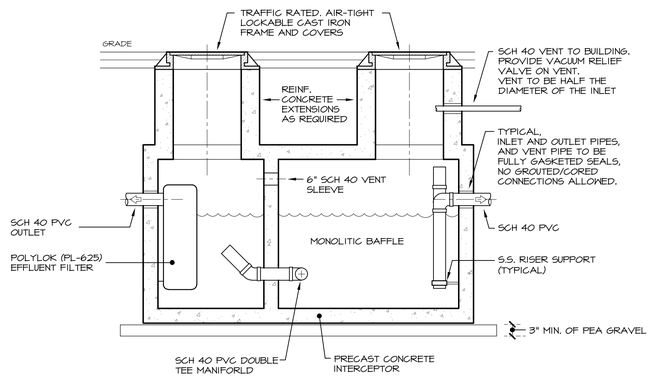


6 P201 OUTSIDE BUILDING SANITARY PIPING DETAIL

NOT TO SCALE



PLAN VIEW



SPECIFICATIONS
USE WOODARD'S CONCRETE PRODUCTS OR APPROVED EQUAL AS FOLLOWS
CONCRETE MINIMUM STRENGTH - 4,000 PSI @ 28 DAYS.
STEEL REINFORCEMENT - #4 AND #5 REBAR/ASTM A615
CONSTRUCTION JOINT - BUYTL RUBBER SEALANT
PIPE CONNECTION - POLYLOC SEAL OR AS NEEDED
GREASE TANK SHALL BE CONSTRUCTED FOR HIGHWAY LOADING.

NOTE:

THIS DETAIL CONTAINS THE BASIC ELEMENTS AND EQUIPMENT FOR A GREASE TRAP. THE CONFIGURATION OF CONNECTIONS MAY VARY. SEE PLUMBING DRAWINGS.

9 P201 GREASE TANK 1000 GALLON DETAIL

NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE

FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA0901

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

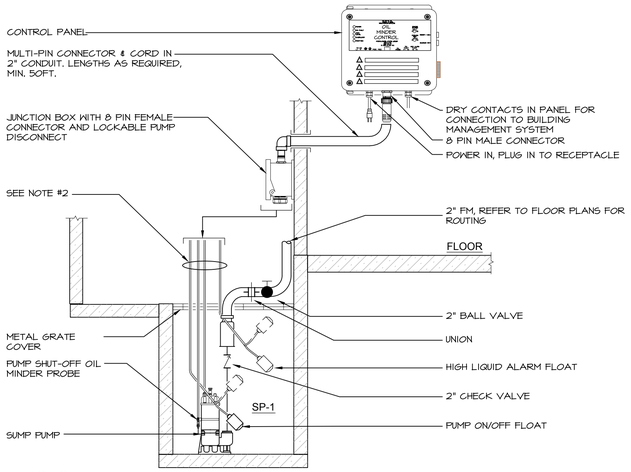
OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY		
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLUMBING: DETAILS

SCALE:	AS NOTED
DWG. BY:	KC
DWG. DATE:	8/14/2020
STATUS:	BID DRAWINGS

P201

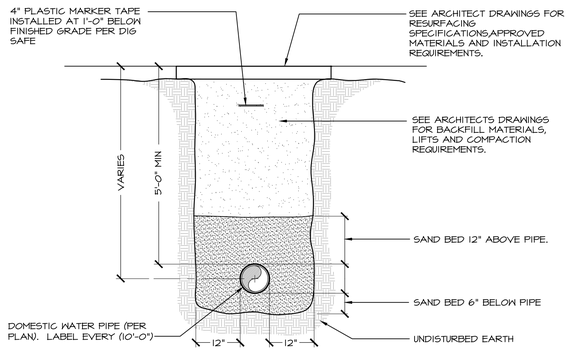


NOTES:

1. JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR AND CORD IN LENGTHS AS REQUIRED; 25 FT. IS STANDARD, OPTIONAL 25 FT. INCREMENTS AVAILABLE
2. OIL MINDER CABLE, POWER CABLE, PROBE CABLE, HIGH LIQUID ALARM CABLE & PUMP ON FLOAT CABLE ALL ROUTED IN 2" CONDUIT
3. MINIMUM PIT SIZE: 24"x24"x24", COORDINATE WITH GENERAL CONTRACTOR
4. SEAL ALL PIPE AND CONDUIT PENETRATIONS THROUGH ELEVATOR SHAFT WALLS.
5. ROUTE PIPING AND CONDUIT IN ELEVATOR SHAFT TO AVOID CONFLICTS WITH ELEVATOR COMPONENTS, FRAMING AND ETC.

1 / P202 ELEVATOR SUMP PUMP (SP-1) DETAIL

NOT TO SCALE

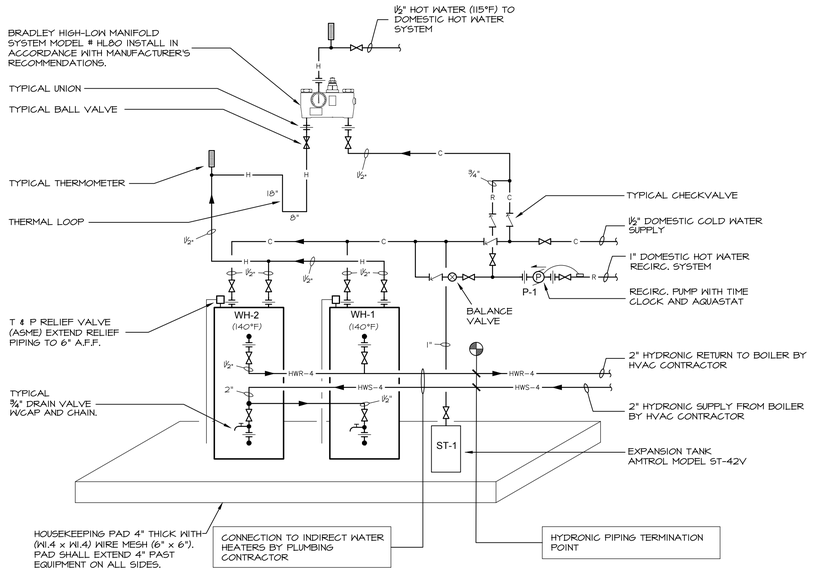


NOTES:

1. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS & SLAB.
2. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
3. 5'-0" MIN COVER SHALL BE APPLIED TO WATER MAIN.

2 / P202 WATER PIPING TRENCH DETAIL

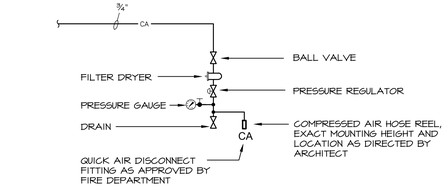
NOT TO SCALE



NOTE:
HVAC CONTRACTOR SHALL RUN HYDRONIC PIPING FROM BOILER UP TO INDIRECT WATER HEATERS. PLUMBING CONTRACTOR SHALL MAKE FINAL HYDRONIC PIPING CONNECTIONS TO INDIRECT HEATERS. COORDINATE HYDRONIC PIPING TERMINATION POINT WITH HVAC CONTRACTOR.

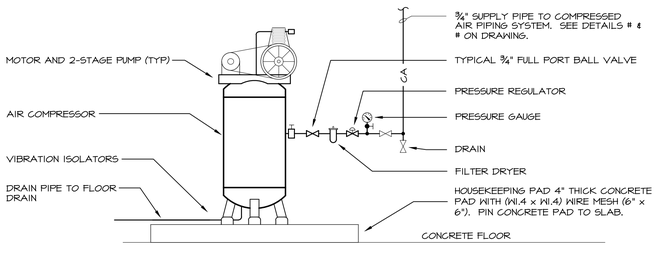
3 / P202 INDIRECT WATER HEATER DETAIL

NOT TO SCALE



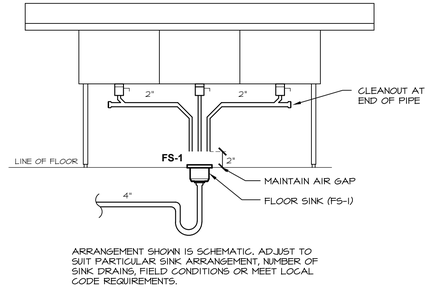
4 / P202 COMPRESSED AIR OUTLET DETAIL

NOT TO SCALE



5 / P202 AIR COMPRESSOR AIR DETAIL

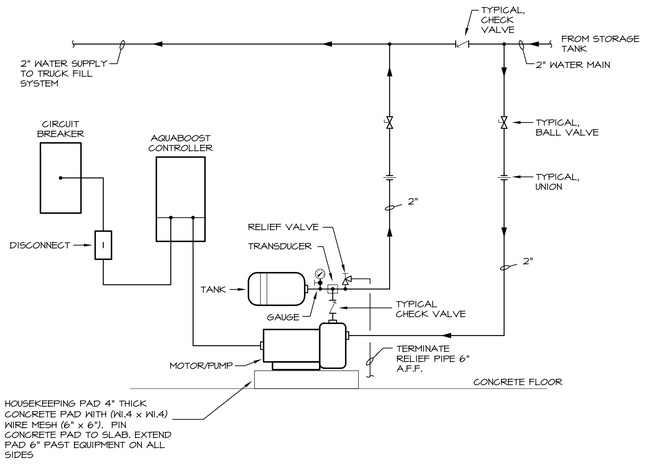
NOT TO SCALE



ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT PARTICULAR SINK ARRANGEMENT, NUMBER OF SINK DRAINS, FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS.

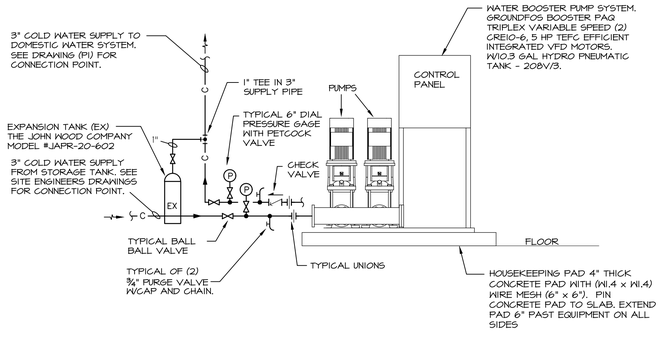
6 / P202 INDIRECT DRAINAGE DETAIL

NOT TO SCALE



7 / P202 TRUCK FILL WATER BOOSTER SYSTEM (WBP-1) DETAIL

NOT TO SCALE



8 / P202 DOMESTIC WATER BOOSTER (WBP-2) DETAIL

NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2850
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-4620 FAX:(845) 225-4717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-4944 FAX:(518) 584-4956

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

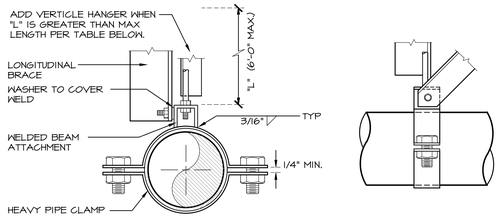
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLUMBING: DETAILS

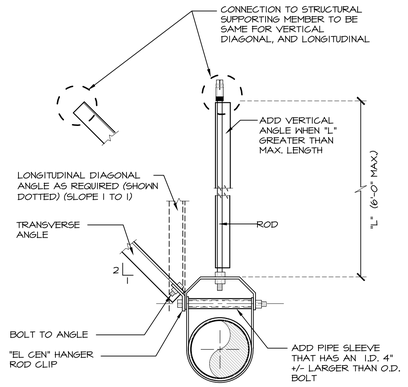
SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 12/16/2020
STATUS: HEALTH DEPARTMENT

P202



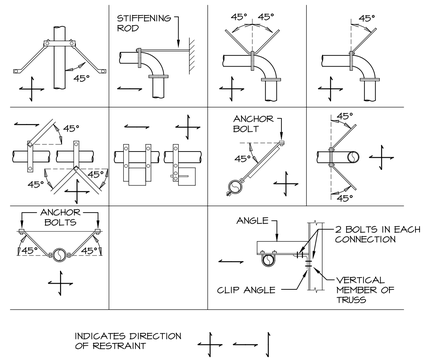
BRACE SPACING	PIPE	ROD	MAX. ROD LENGTH	VERT. HANGERS	TRANSVERSE HANGERS	BOLT
80'	2½"	½"	25"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅝"
80'	3"	½"	25"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅝"
80'	4"	⅝"	31"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅝"
80'	6"	¾"	37"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅝"
80'	8"	⅞"	43"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅝"

1 P203 LONGITUDINAL SEISMIC BRACING
NOT TO SCALE



BRACE SPACING	PIPE	ROD	MAX. ROD LENGTH	VERT. HANGERS	TRANSVERSE HANGERS	BOLT
40'	2½"	½"	25"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅝"
40'	3"	½"	25"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅝"
40'	4"	⅝"	31"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅝"
40'	6"	¾"	37"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅝"
40'	8"	⅞"	43"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅝"

2 P203 TRANSVERSE SEISMIC PIPE BRACING
NOT TO SCALE

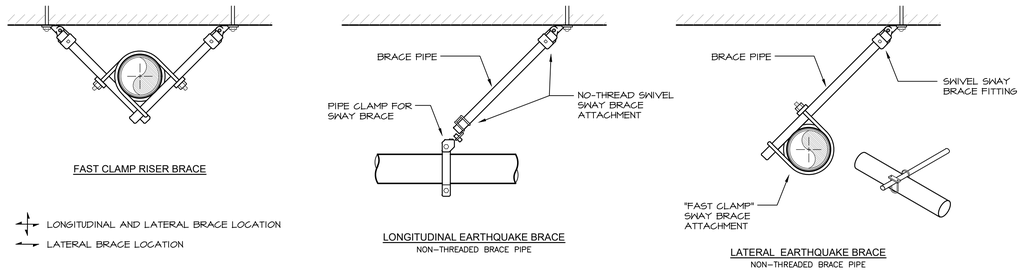


3 P203 SEISMIC SWAY BRACING (GENERAL)
NOT TO SCALE

SEISMIC EQUIPMENT AND PIPE HANGER DESIGN

THE PLUMBING SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
PLUMBING CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH EQUIPMENT SUPPORT, PIPE SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C



4 P203 SEISMIC HANGER DETAILS
NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLUMBING: DETAILS

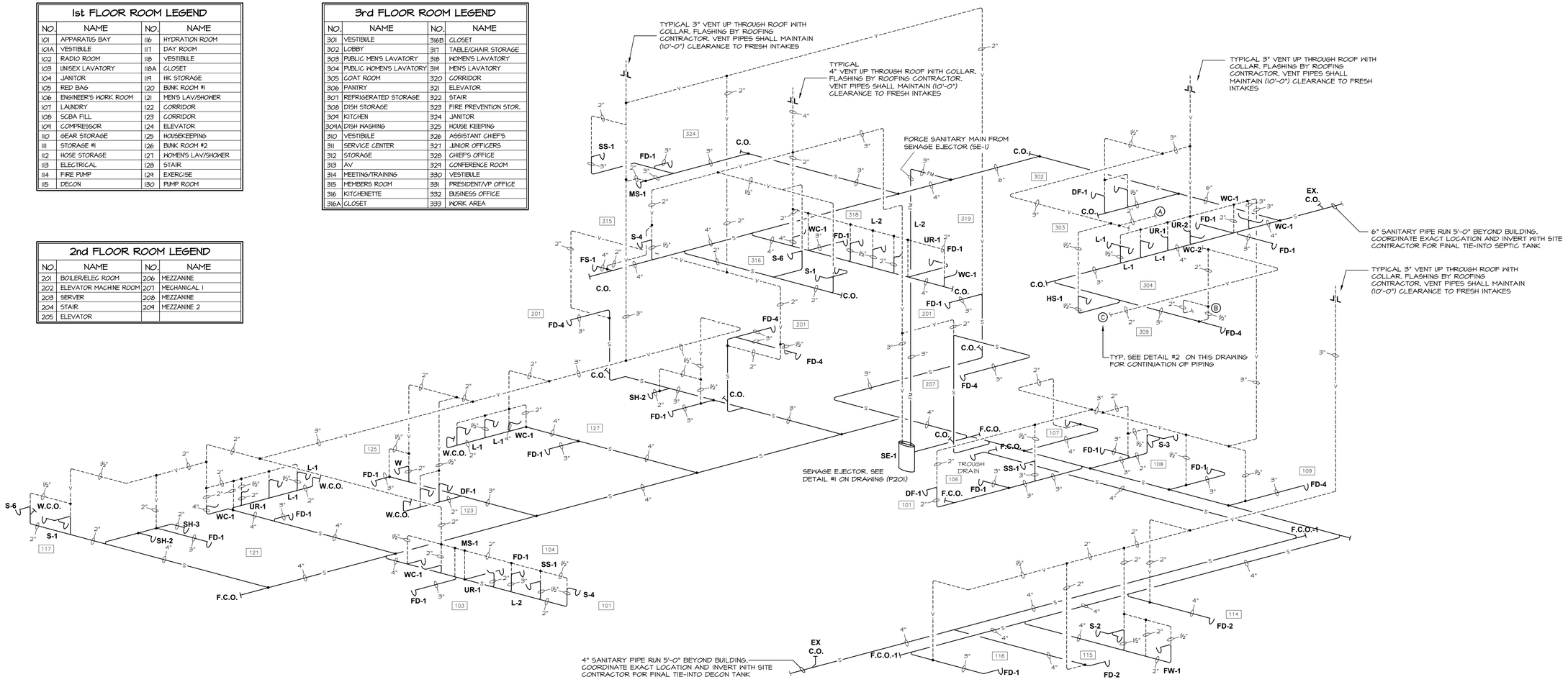
SCALE:	AS NOTED
DWG. BY:	KC
DWG. DATE:	8/14/2020
STATUS:	BID DRAWINGS

P203

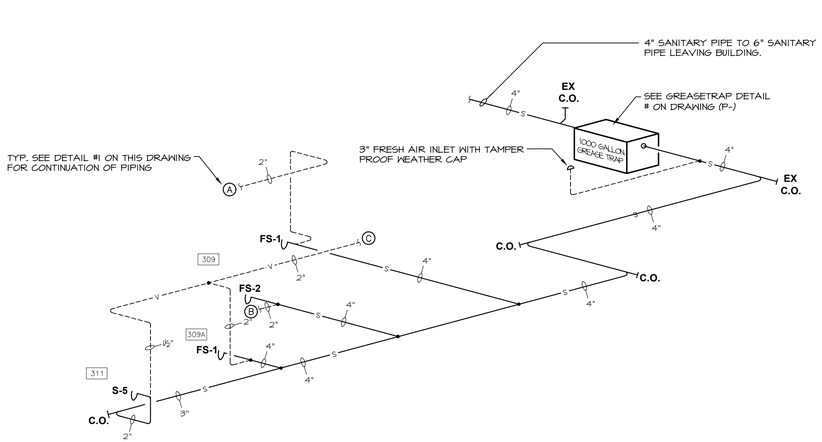
1st FLOOR ROOM LEGEND			
NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

2nd FLOOR ROOM LEGEND			
NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	206	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MEZZANINE 2
205	ELEVATOR		

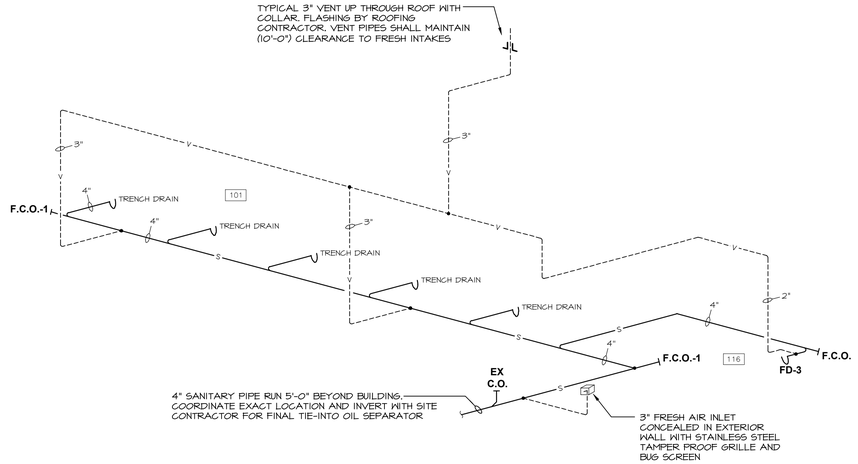
3rd FLOOR ROOM LEGEND			
NO.	NAME	NO.	NAME
301	VESTIBULE	316B	CLOSET
302	LOBBY	317	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	318	WOMEN'S LAVATORY
304	PUBLIC WOMEN'S LAVATORY	319	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STOR.
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSE KEEPING
310	VESTIBULE	326	ASSISTANT CHIEF'S
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEF'S OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA



1 P204 SANITARY/VENT PIPING ISOMETRIC
NOT TO SCALE



2 P204 GREASE TRAP SANITARY/VENT PIPING ISOMERIC
NOT TO SCALE



3 P204 OIL SEPARATOR SANITARY/VENT PIPING ISOMETRIC
NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4511 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY		
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLUMBING: ISOMETRICS

SCALE:	AS NOTED
DWG. BY:	KC
DWG. DATE:	8/14/2020
STATUS:	BID DRAWINGS

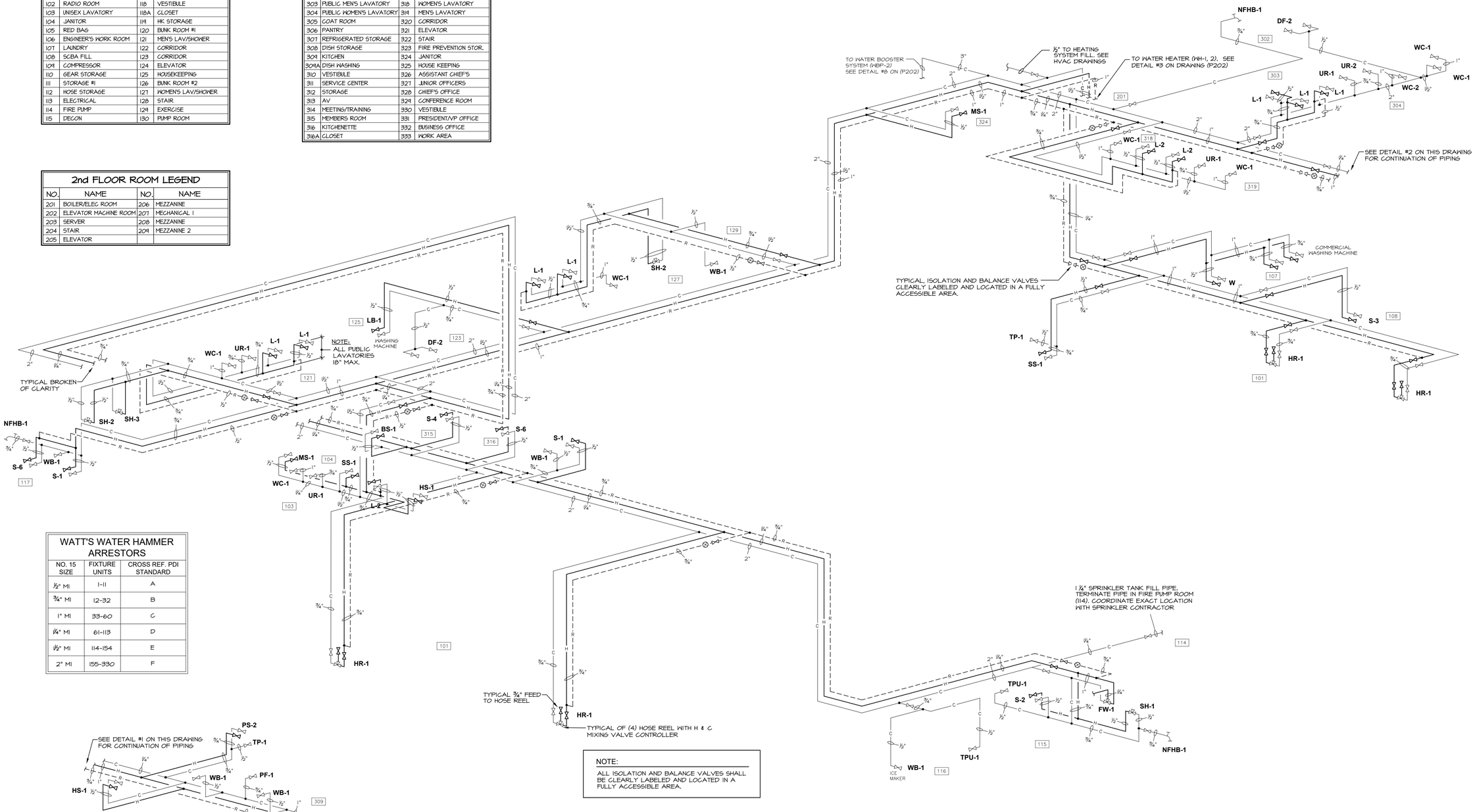
P204

1st FLOOR ROOM LEGEND			
NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

3rd FLOOR ROOM LEGEND			
NO.	NAME	NO.	NAME
301	VESTIBULE	316B	CLOSET
302	LOBBY	317	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	318	WOMEN'S LAVATORY
304	PUBLIC WOMEN'S LAVATORY	319	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STOR.
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSE KEEPING
310	VESTIBULE	326	ASSISTANT CHIEF'S
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEF'S OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA

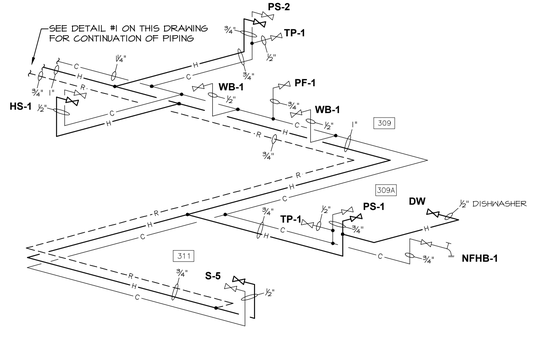
2nd FLOOR ROOM LEGEND			
NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	206	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MEZZANINE 2
205	ELEVATOR		

WATT'S WATER HAMMER ARRESTORS		
NO. 15 SIZE	FIXTURE UNITS	CROSS REF. PDI STANDARD
½" MI	1-11	A
¾" MI	12-32	B
1" MI	33-60	C
1¼" MI	61-113	D
1½" MI	114-154	E
2" MI	155-330	F



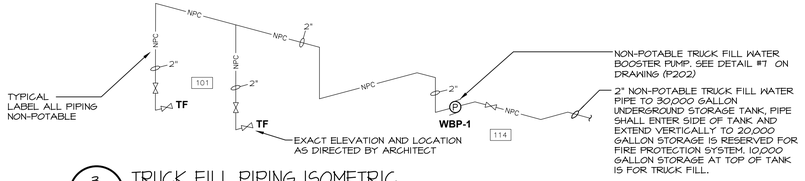
NOTE:

ALL ISOLATION AND BALANCE VALVES SHALL BE CLEARLY LABELED AND LOCATED IN A FULLY ACCESSIBLE AREA.



1 P205 DOMESTIC WATER PIPING ISOMETRIC CON'T

NOT TO SCALE



2 P205 DOMESTIC WATER PIPING ISOMETRIC CON'T

NOT TO SCALE

3 P205 TRUCK FILL PIPING ISOMETRIC

NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4511 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA0901

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY		
	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLUMBING: ISOMETRICS

SCALE:	AS NOTED
DWG. BY:	KC
DWG. DATE:	8/14/2020
STATUS:	BID DRAWINGS

P205

PIPE HANGER SCHEDULE

PIPE SIZE (INCHES)	MAXIMUM HORIZONTAL SPACING (FEET)				SINGLE STEEL ROD HANGER SIZE (INCHES)		HANGER TYPE STEEL	MAXIMUM VERTICAL SPACING (FEET)			
	COPPER TUBE	CAST IRON	STEEL PIPE	CPVC PIPE	TUBING	PIPING		COPPER TUBE	CAST IRON	STEEL PIPE	CPVC PIPE
½"	6	5	8 (5)	3	¼"	⅜"	BAND	10	15	15	10
¾"	6	5	8 (5)	3	¼"	⅜"	BAND	10	15	15	10
1"	6	5	8 (5)	3	¼"	⅜"	BAND	10	15	15	10
1¼"	6	5	9 (5)	4	¼"	⅜"	CLEVIS	10	15	15	10
1½"	6	5	9 (5)	4	¼"	⅜"	CLEVIS	10	15	15	10
2"	10	5	10 (5)	4	¼"	⅜"	CLEVIS	10	15	15	10
2½"	10	5	12 (5)	4	⅜"	½"	CLEVIS	10	15	15	10
3"	10	5	12 (5)	4	⅜"	½"	CLEVIS	10	15	15	10
4"	10	5	12 (5)	4	½"	⅝"	CLEVIS	10	15	15	10
5"	10	5	12 (5)	4	½"	⅝"	CLEVIS	10	15	15	10
6"	10	5	12 (5)	4	½"	¾"	CLEVIS	10	15	15	10
8"	10	5	12 (5)	4	⅝"	⅞"	CLEVIS	10	15	15	10
10"	10	5	12 (5)	4	⅝"	⅞"	CLEVIS	10	15	15	10
12"	10	5	12 (5)	4	⅝"	⅞"	CLEVIS	10	15	15	10

NOTES:

1. MAXIMUM HORIZONTAL SPACING OF CAST-IRON PIPE HANGERS SHALL BE INCREASED TO 10 FEET WHERE 10 FOOT LENGTHS OF PIPE ARE INSTALLED.
2. INSTALL HANGER OR SUPPORT CLOSE TO THE POINT OF CHANGE OF DIRECTION IN ALL PIPE RUNS.
3. INSTALL ADDITIONAL HANGERS ON SUPPORTS AT CONCENTRATED LOADS.
4. SUPPORT ALL BRANCH PIPING OVER 5'-0" IN LENGTH.
5. ½" GAS PIPING SHALL BE SUPPORTED EVERY 6'-0". ¾" AND 1" GAS PIPING SHALL BE SUPPORTED EVERY 8'-0". ¼" AND LARGER GAS PIPING SHALL BE SUPPORTED EVERY 10'-0".
6. SUPPORT VERTICAL PIPING AT EVERY FLOOR.

PIPE HANGER SCHEDULE

PIPE SIZE INCHES	SPACING - FEET			ROD SIZE STEEL INCHES	HANGER TYPE STEEL
	STD. WT. STEEL PIPE		COPPER TUBE		
	WATER	STEAM	WATER		
½	7	8	5	¼	CLEVIS HANGER
¾	7	9	5	¼	CLEVIS HANGER
1	7	9	6	¼	CLEVIS HANGER
1½	9	12	8	⅜	CLEVIS HANGER
2	10	13	8	⅜	CLEVIS HANGER
2½	11	14	9	⅜	CLEVIS HANGER
3	12	15	10	⅜	CLEVIS HANGER
4	14	17	12	½	CLEVIS HANGER
6	17	21	14	½	CLEVIS HANGER
8	19	24	16	⅝	CLEVIS HANGER

PLUMBING PIPE INSULATION SCHEDULE

SERVICE	INSULATION THICKNESS (INCHES)	
	PIPE SIZE (INCHES)	
	BELOW 1½"	1½" AND OVER
COLD WATER	½"	½"
HOT WATER	1"	1½"
HOT WATER RECIRCULATION	1"	1½"
HORIZONTAL / VERTICAL STORM PIPING	1"	1"

NOTES:

1. PIPE COVERING SHALL BE FIBERGLASS PIPE INSULATION WITH, FIRE RETARDANT VAPOR BARRIER JACKET, 0.23 K-FACTOR AT 75°F MEAN TEMPERATURE, FLAME SPREAD = 25, SMOKE DEVELOPED = 50.
2. FITTINGS AND VALVES SHALL BE PROVIDED WITH PREMOLDED FITTING COVERS WITH PVC JACKETING OVAL IN THICKNESS AND MATERIAL TO ADJOINING PIPE INSULATION.

FIXTURE RUNOUT SCHEDULE

MARK	FIXTURE	CW	HW	W	V
WC-1, 2	WATER CLOSET	1"	——	4"	2"
UR-1, 2	URINAL	¾"		2"	½"
L-1, 2	LAVATORY	½" x ⅜"	½" x ⅜"	½"	½"
S-1,2,3,4,5,6	SINK	½" x ⅜"	½" x ⅜"	½"	½"
SH-1	SHOWER	½"	½"	——	——
SH-2, 3	SHOWER	½"	½"	2"	½"
PS-1, 2	POT SINK	¾"	¾"	2"	½"
BS-1	BAR SINK	½"	½"	½"	½"
DF-1, 2	DRINKING FOUNTAIN	½"	——	½"	½"
HS-1	HAND SINK	½" x ⅜"	½" x ⅜"	½"	½"
WB-1	WALL BOX	½"	——	——	——
LB-1	LAUNDRY BOX	½"	½"	2"	½"
HR-1	HOSE REEL	¾"	——	——	——
PF-1	POT FILLER	¾"	——	——	——
TF-1	TRUCK FILL	2"	——	——	——
FD-1	FLOOR DRAIN	——	——	3"	½"
FD-2, 3	FLOOR DRAIN	½"	——	4"	2"
FD-4	FLOOR DRAIN	——	——	3"	½"
FS-1	FLOOR SINK	——	——	4"	2"
FS-2	FLOOR SINK	½"	——	4"	2"
SS-1	SERVICE SINK	½"	½"	3"	½"
MS-1	MOP SINK	½"	½"	3"	½"
TPU-1	TRAP PRIMER UNIT	½"	——	——	——
TP-1	TRAP PRIMER	½"	——	——	——
FW-1	FACE/EYEWASH	1"	1"	——	——

PLUMBING NOTES:

1. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH 2020 PLUMBING, FIRE, FUEL GAS, BUILDING, AND ENERGY CONSERVATION CONSTRUCTION CODE OF THE STATE OF NEW YORK, ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS.
2. CONTRACTOR SHALL PROVIDE ALL FIXTURES, PIPING, VALVES, ACCESS DOORS, HANGERS, FITTINGS AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE PLUMBING SYSTEMS COMPLETE, OPERABLE, AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS.
3. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PIPING AND EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICTS. ROUGHING-IN DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR. SEE ARCHITECTS DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF PLUMBING FIXTURES.
4. ALL PIPE OPENINGS THROUGH PARTITIONS, FLOORS AND CEILINGS SHALL HAVE PIPE SLEEVES. FOR PIPE PENETRATING FIRE RATED PARTITIONS, CEILINGS AND FLOORS THE CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS WITH HILTI INTUMESCENT FIRE STOP MATERIAL BETWEEN THE PIPE AND SLEEVE TO MAINTAIN FIRE AND SMOKE RATINGS. PROVIDE FIRE STOP SEALANT ON ALL EXISTING PIPING PENETRATING NEW FIRE RATED WALLS CONSTRUCTED AS PART OF THE PROJECT.
5. CONTRACTOR SHALL PITCH ALL SANITARY PIPING UNDER 3" A MINIMUM OF ¼" PER FOOT. SANITARY PIPING 3" AND ABOVE MAY BE PITCHED A MINIMUM OF ⅛" PER FOOT.
6. CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER AND AGREES TO REPLACE DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND MATERIAL) AT NO ADDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD.
7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT, PIPING, INSULATION, VALVES AND PLUMBING FIXTURES TO OWNER AND ARCHITECT FOR APPROVAL. DEMONSTRATE NEW PLUMBING SYSTEMS TO OWNERS AND REVIEW MAINTENANCE PROCEDURES.
8. PROVIDE CHROME PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH WALLS, FLOORS AND CEILINGS IN FINISHED AREAS.
9. CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS WITH GENERAL CONTRACTOR TO ENSURE CONCEALMENT OF ALL PIPING IN WALLS, FLOORS, CEILINGS AND UNDER VANITIES.
10. CONTRACTOR SHALL LOCATE ALL PIPING ON THE WARM SIDE OF BUILDING INSULATION ENVELOPE.
11. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (24V) AND (120V) FOR SYSTEMS SHOWN ON PLUMBING DRAWINGS AND TRANSFORMERS, CONDUIT, JUNCTION BOXES, CONDUCTORS, THERMOSTATS, APPURTENANCES AND ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS COMPLETE AND OPERABLE.
12. ALL CONTROL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (LATEST ADOPTED ADDITION) AND ALL LOCAL CODES. ALL CONDUCTORS SHALL BE COPPER WITH THHN INSULATION. 120V/1 - MINIMUM CONDUCTOR SIZE # 12. 24V - MINIMUM CONDUCTOR SIZE # 18.
13. CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTIONS FEES REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
14. CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ALL VALVES CONCEALED IN WALLS/CEILINGS. ACCESS DOORS SHALL HAVE APPROPRIATE FIRE RATING TO MAINTAIN INTEGRITY OF WALL/CEILING. ACCESS DOORS TO BE INSTALLED BY GENERAL CONTRACTOR.
15. CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT, OR STRUCTURAL ENGINEER.
16. CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL DOMESTIC HOT AND COLD WATER PIPING AND HORIZONTAL STORM DRAIN PIPING. SEE PLUMBING INSULATION SCHEDULE ON THIS DRAWING.
17. ALL DOMESTIC WATER PIPING CONNECTIONS TO PLUMBING EQUIPMENT SHALL BE COPPER TYPE "L".
18. ALL NEW PIPES ARE TO BE SUPPORTED FROM STRUCTURE, NOT FROM PIPING OR DUCTWORK.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND REFILLING SYSTEMS AS REQUIRED FOR COMPLETION OF WORK.
20. CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
21. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
22. PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER AND HOT WATER.
23. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED.
24. A CLEANOUT SHALL BE LOCATED AT ALL CHANGES IN DIRECTION AND AT THE BASE OF EACH STACK AND LEADER.
25. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
26. FIXTURE (GENERAL):
27. FIXTURE SHALL BE COMPLETE WITH REQUIRED TRIM, INCLUDING BUT NOT LIMITED TO: SUPPORTS, FAUCETS, SUPPLIES, STOP VALVES, 17 GAUGE WASTE TAILPIECES, TRAPS, SEATS, FLUSHOMETER, VACUUM BREAKER, BOLTS, GASKETS CHROME PLATED EXUTCHEONS, CAST BRASS FLOOR FLANGE AND BOLT CAPS. ALL SCREWS SHALL BE VALDELPROOF.
28. EXPOSED METAL TRIM AND ROUGHING SHALL BE CHROME PLATED NICKEL BRASS. CHROME PLATED CAST BRASS 'P' TRAPS WITH SCREW PLUG CLEANOUT, SLIP-JOINT INLET AND FEMALE CAST SWIVEL THREADED ELBOW OUTLET. CHROME PLATED BRASS NIPPLE AT WALL WITH CHROME PLATED ESCUTCHEON. SWING SPOUTS SHALL HAVE 140° SWING LIMIT STOPS.
29. SUPPORT WALL FIXTURES SECURELY ON APPROVED COMMERCIAL GRADE CARRIERS AS MANUFACTURED BY JAY R. SMITH, JOSAM, OR ZURN.
30. UPON COMPLETION OF THE ENTIRE SANITARY DRAIN AND VENT SYSTEM, THE CONTRACTOR SHALL PERFORM AN AIR TEST WITNESSED BY AUTHORITY HAVING JURISDICTION. AIR SHALL BE FORCED INTO THE SYSTEM UNTIL THERE IS A UNIFORM GAUGE PRESSURE OF 5 PSI OR SUFFICIENT TO BALANCE A 10 INCH COLUMN OF MERCURY. THIS TEST SHALL BE HELD FOR A PERIOD OF AT LEAST 15 MINUTES.
31. WATER SUPPLY SYSTEM TEST SHALL BE DONE ON COMPLETION OF A SECTION OF OR THE ENTIRE WATER SUPPLY SYSTEM, THE SYSTEM, OR THE PORTION COMPLETED, SHALL BE TESTED AND PROVED TIGHT UNDER A WATER PRESSURE NOT LESS THAN THE WORKING PRESSURE OF THE SYSTEM; OR, BY AN AIR TEST OF NOT LESS THAN 50 PSI. TEST PRESSURE SHALL BE HELD FOR A MINIMUM OF 15 MINUTES. THE WATER UTILIZED FOR TESTS SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY.
32. DOMESTIC WATER PIPING DISINFECTION:

    A. ALL OPEN ENDS OF PIPING, VALVES AND EQUIPMENT SHALL BE PLUGGED EXCEPT WHEN ACTUAL WORK IS BEING PERFORMED, TO MINIMIZE ACCUMULATION OF DIRT AND DEBRIS.

    B. THE CONTRACTOR SHALL DISINFECT WATER PIPING BEFORE IT IS PLACED IN SERVICE.

    C. THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT AND MATERIALS NECESSARY TO DO THE WORK OF DISINFECTING, AND SHALL PERFORM THE WORK IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE AWWA C651 OR AWWA C652 OR AS DESCRIBED BELOW.

    D. SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE AND THE SYSTEM OR PART THEREOF SHALL BE ALLOWED TO STAND FOR 24 HOURS.

    E. DURING THE DISINFECTION PERIOD, CARE SHALL BE EXERCISED TO PREVENT CONTAMINATION OF WATER IN THE STREET MAIN OR THE ACTIVE WATER PIPING WITHIN THE BUILDING.

    F. FOLLOWING REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM.

33. PIPING AND EQUIPMENT IDENTIFICATION:

    A. CONTRACTOR TO PROVIDE OPTI-CODE LABELS FOR ALL NEW PIPING. LABELS SHALL INDICATE SERVICE AND FLOW DIRECTION. LETTERS AND ARROWS INDICATING FLOW SHALL BE 2 1/2" HIGH, PLACED EVERY 10' AND SHALL BE WHITE ON A GREEN BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. LABELS SHALL BE APPLIED OVER INSULATION ONLY.

    B. VALVE SERVICE IDENTIFICATION TAGS: NUMBER 19 B&S GAGE BRASS, WITH 1/4" HIGH VALVE SERVICE ABBREVIATED LETTERING ON ONE LINE OVER 1/2" HIGH VALVE SERVICE CHART NUMBER, BOTH DEEP STAMPED AND BLACK FILLED; AND WITH 3/16" TOP HOLE FOR BRASS "S" HOOK OR BRASS JACK CHAIN FASTENER.

    C. PROVIDE VALVE SERVICE IDENTIFICATION CHART MOUNTED IN LOCATION COORDINATED WITH OWNER'S REPRESENTATIVE. FRAME SHALL BE SATIN FINISHED EXTRUDED ALUMINUM WITH RIGID CLEAR PLASTIC GLAZING, SIZE TO FIT 8-1/2" x 11" VALVE CHART.

    D. EQUIPMENT SHALL HAVE 3" HIGH BLACK LAMACOID NAME PLATES WITH WHITE ENGRAVED LETTERS PERMANENTLY FASTENED TO ALL NEW EQUIPMENT.

34. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START-UP OF ALL NEW EQUIPMENT, CONTROLS, AND ETC. TO ENSURE CORRECT OPERATION OF INSTALLED DEVICES.
35. CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, AND RECORD (AS-BUILT) DRAWINGS OF ALL COMPLETED WORK.
36. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CUTTING, PATCHING, AND PAINTING ASSOCIATED WITH PLUMBING WORK WITH THE GENERAL CONTRACTOR, WHO SHALL PERFORM THE WORK. ALL FLOORS AND WALLS WHERE AN EXISTING PIPE HAS BEEN REMOVED AND NOT REPLACED SHALL BE PATCHED BY THE GENERAL CONTRACTOR, THIS CONTRACTOR SHALL COORDINATE.
37. ALL NEW HOLES IN WALLS AND FLOORS SHALL BE CORE DRILLED BY THIS CONTRACTOR. PRIOR TO CORE DRILLING FLOORS, RADAR SCAN FLOOR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EXISTING EQUIPMENT, SYSTEMS, STRUCTURE AND ETC. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO SCHOOL.
38. CONTRACTOR SHALL PAINT ALL GAS PIPING. CLEAN GAS PIPE AND PAINT (1) ONE COAT MARINE ALKYD METAL PRIMER MPI 79, (2) TWO COATS PAINT EXTERIOR ALKYD SEMI-GLOSS MPI 94. SEE ARCHITECTS DRAWINGS AND SPECIFICATIONS FOR APPROVED MATERIALS, PROCEDURES AND METHODS OF INSTALLATION. COLOR AS DIRECTED BY ARCHITECT.
39. CONTRACTOR SHALL INSULATE ALL EXPOSED PIPING UNDER HANDICAPPED ACCESSIBLE LAVATORIES AND SINKS WITH HANDI LAV-GUAR MANUFACTURED BY TRUEBRO, ELLINGTON, CT. (203) 872-0300
40. CONTRACTOR SHALL MOUNT ALL HANDICAPPED ACCESSIBLE PLUMBING FIXTURES AND ACCORDANCE WITH ANSI A117.1 AND ADA REQUIREMENT SEE ARCHITECT'S DRAWINGS FOR FIXTURE ELEVATIONS.

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4511 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLUMBING: EQUIPMENT SCHEDULES

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

P300

PLUMBING EQUIPMENT SCHEDULE CONT'

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
HS-1	JUST	A-544-FS-T	HANDWASH SINK WALL MOUNTED 20 GAUGE TYPE 304 STAINLESS STEEL, 8" ON CENTER 2-HOLE BACK MOUNT. FAUCET J5-47-T65A 2.2 GPM, DRAIN J-15-FS, TRAP JTN-150. BRASS STEM STOPS, 17 GAUGE CHROME PLATED BRASS P-TRAP W/CLEANOUT AND BASKET STRAINER. IPS TRUEBRO LAV GUARD INSULATION KIT. INSTALL IN ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY.
MS-1	FIAT	MSB2424	MOP SERVICE BASIN, MOLDED STONE (24" x 24" x 10" HIGH), WITH WALL GUARD (MSG2424) AND MOP HANGER (889-CC).
	ADVANCED TABCO	K-240	SERVICE FAUCET WITH METAL HANDLES, VACUUM BREAKER W/HOOK, TOP BRACE AND INTEGRAL STOPS.
SS-1	ELKAY	ES9B2520G	SERVICE SINK, WALL MOUNTED CONSTRUCTED OF TYPE 304 (18-8) STAINLESS STEEL WITH WALL HANGER, 3" CAST IRON P-TRAP (LK1T3) AND CLEANOUT.
		LK90TBR07L2H	UTILITY FAUCET WITH METAL HANDLES, VACUUM BREAKER, TOP BRACE AND INTEGRAL STOPS.
S-1	JUST	DLXD-2133-A-GR	DROP-IN DOUBLE SINK SELF-RIM CONSTRUCTED OF 18 GAUGE TYPE 304 STAINLESS STEEL, BOWL (2) (16" W x 14" L x 12" D). DECK MOUNTED FAUCET (1) HOLE CENTERED WITH STAINLESS BASKET 1½", 17 GAUGE CHROME PLATED BRASS P-TRAP W/CLEANOUT AND BRASS STEM STOPS.
	AMERICAN STANDARD	4932.350	EDGEWATER SEMI-PROFESSIONAL KITCHEN FAUCET, METAL REINFORCED HOSE , PULL-DOWN SELECTFLO 4 FUNCTION SPRAY HEAD (1)-HOLE APPLICATION
S-2	ADVANCED TABCO	93-2-36-24	REGALINE TWO COMPARTMENT SINK EACH (16"L x 20"W x 12"D) WITH ONE DRAINBOARD AND STAINLESS STEEL LEGS. CONSTRUCTED OF 16 GAUGE TYPE 304 STAINLESS STEEL W/8" BACKSPLASH FAUCET HOLES 8" CENTERS.
	T&S BRASS	B-0133-ADF-B	PRE-RINSE 8" WALL MOUNT WITH ADD-ON MIXING FAUCET, 12" SWING NOZZLE, 18" RIGID RISER, 44" FLEXIBLE STAINLESS STEEL HOSE, LEVER HANDLES, 6" ADJUSTABLE WALL BRACKET, SPRAY HOLDER. CHECK VALVES, BRASS STEM STOPS, 17 GAUGE CHROME PLATED DRAIN W/CLEANOUT AND BASKET STRAINER.
S-3	ADVANCED TABCO	94-62-36-24RL	REGALINE TWO COMPARTMENT SINK EACH (18"L x 24"W x 17"D) WITH TWO DRAINBOARDS AND STAINLESS STEEL LEGS. CONSTRUCTED OF 14 GAUGE TYPE 304 STAINLESS STEEL W/11" BACKSPLASH FAUCET HOLES 8" CENTERS.
	T&S BRASS	B-0133-ADF-B	PRE-RINSE 8" WALL MOUNT WITH ADD-ON MIXING FAUCET, 12" SWING NOZZLE, 18" RIGID RISER, 44" FLEXIBLE STAINLESS STEEL HOSE, LEVER HANDLES, 6" ADJUSTABLE WALL BRACKET, SPRAY HOLDER. CHECK VALVES, BRASS STEM STOPS, 17 GAUGE CHROME PLATED DRAIN W/CLEANOUT AND BASKET STRAINER.
S-4	ADVANCE TABCO	DI-1-1515	DROP-IN SINK SELF-RIMMED CONSTRUCTED OF 20 GAUGE TYPE 304 STAINLESS STEEL. BOWL (12-1/4" L x 10-1/4" W x 6" D). DECK MOUNTED 8½" GOOSENECK 4" O.C. - (MODEL K-55), STAINLESS STEEL BASKET 1½", 17 GAUGE CHROME PLATED BRASS P-TRAP, W/CLEANOU AND, BRASS STEM STOPS.
S-5	ADVANCE TABCO	DI-1-168	DROP-IN SINK SELF-RIMMED CONSTRUCTED OF 20 GAUGE TYPE 304 STAINLESS STEEL. BOWL (16" L x 14" W x 8" D). DECK MOUNTED 8½" GOOSENECK 4" O.C. - (MODEL K-52), STAINLESS STEEL BASKET 1½", 17 GAUGE CHROME PLATED BRASS P-TRAP, W/CLEANOU AND, BRASS STEM STOPS.
S-6	JUST	SL-ADA-1613 -A-GR	LEDGE TYPE - SINGLE BOWL SINK WALL 18 GAUGE TYPE 304 STAINLESS STEEL, BOWL (10" L x 10" W x 4 ½" D), (3)-HOLE 4" ON CENTERS, FAUCET J-1174-R, 2.2 GPM, DRAIN SYSTEM J-ADA-35, BRASS STEM STOPS, 17 GAUGE CHROME PLATED BRASS P-TRAP W/CLEANOUT AND 3 ½" BASKET STRAINER. IPS TRUEBRO LAV GUARD INSULATION KIT. INSTALL IN ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY.
PS-1	————	————	EXISTING 3-BAY POT SINK AND FAUCET PROVIDED BY OWNER
PS-2	————	————	EXISTING 2-BAY POT SINK AND FAUCET PROVIDED BY OWNER
BS-1	REGENCY	600B31014213	THREE BOWL UNDERBAR HAND SINK EACH (10"L x 14"W x 10"D) WITH TWO DRAINBOARDS AND STAINLESS STEEL LEGS. CONSTRUCTED OF 18 GAUGE TYPE 304 STAINLESS STEEL W/3" HIGH BACKSPLASH AND FAUCET.
DF-1	ELKAY	LVRCBWSK	VANDAL RESISTANT BOTTLE FILLING STATION SINGLE FILTERED VANDAL RESISTANT ELECTRIC WATER COOLER. CHILLING CAPACITY OF 8 GALLONS PER HOUR OF 50°F DRINKING WATER AT 90°F AMBIENT. ELECTRICAL: 115V/60Hz., 5.0 FULL LOAD AMPS, 370 WATTS. ADA COMPLIANT, NSF 61 CERTIFIED.
DF-2	ELKAY	LVRCHD(TL)85C	HEAVY DUTY, 14 GAUGE STAINLESS STEEL BI-LEVEL WALL-MOUNTED WATER COOLER FILTERED VANDAL RESISTANT. ELECTRIC WATER COOLER. CHILLING CAPACITY OF 8 GALLONS PER HOUR OF 50°F DRINKING WATER AT 90°F AMBIENT. ELECTRICAL: 115V/60Hz., 4.0 FULL LOAD AMPS, 370 WATTS. ADA COMPLIANT, NSF 61 CERTIFIED.
PF-1	T&S	BF-0299-24DJ	POT FILLER, SINGLE WALL MOUNT BIG-FLO FAUCET W/24" DOUBLE JOINT NOZZLE, 4-ARM HANDLE & ¾" STREET ELBOW
EW-1	BRADLEY	61540	AQUAGUARD GRAVITY-FLOW PORTABLE EYEWASH, 16 GALLON WITH EPOXY COATED STEEL BRACKET FOR MOUNTING WALL UNIT ON WALL.
LB-1	SYMMONS	W602X	LAUNDRY-MATE SUPPLY AND DRAIN FIXTURE FOR 1/2" COPPER AND 2" DRAIN WITH SERVICE STOPS
WB-1	OATEY	12K	WALL BOX WITH BRASS VALVE & COPPER CONNECTION.
NFHB-1	WOODFORD	67	3/4" WALL HYDRANT NON-FREEZE, SELF-DRAINING, VANDAL RESISTANT INTEGRAL VACUUM BREAKER, KEY OPERATED, CHROME FINISH.
C.O.	————	————	CLEANOUT
F.C.O.	————	————	FLOOR CLEANOUT PEDESTRIAN TRAFFIC SEE DETAIL #9 ON DRAWING (P200)
F.C.O.-1	————	————	FLOOR CLEANOUT VEHICLE/TRUCK TRAFFIC (SEE DETAIL #5 ON DRAWING (P200)
W.C.O.	————	————	WALL CLEANOUT SEE DETAIL #2 ON DRAWING (P200)
EX.C.O.	————	————	EXTERIOR CLEANOUT SEE DETAIL #7 ON DRAWING (P200)
TPU-1	MIFAB	MI-300-625 -120	ELECTRONIC TRAP SEAL PRIMER SYSTEM WITH ENCLOSURE, AIR GAP, SOLENOID VALVE, ADJUSTABLE TIMER AND MI-DU DISTRIBUTION UNIT (MI-DI-625) WITH (5) ⅜" PIPE CONNECTIONS, CAP UNUSED PIPE CONNECTIONS - 120V/1. MOUNT UNIT AS DIRECTED IN FIELD BY ARCHITECT
TP-1	MIFAB	M-500, MI-DU MI-GAP	TRAP SEAL PRIMER WITH DISTRIBUTION UNIT TO SERVE UP TO FOUR (4) FLOOR DRAINS AND AIR GAP FITTING (MI-GAP).
P-1	GRUNDFOS	UP 15-42BT	DOMESTIC HOT WATER RECIRCULATION PUMP, BRONZE BODY WITH AQUASTAT AND "UP" TIMER. 8 GPM @ 10 FEET OF HEAD 1/25 HP - 120V/1
FW-1	GUARDIAN	G1991	PEDESTAL-MOUNT EMERGENCY COMBINATION EYE/FACE WASH AND SHOWER SAFETY STATION. STAINLESS STEEL BOWL, DUAL AERATED SPRAY HEADS WITH DUST COVER, 10" DIA. SHOWER HEAD ADA ACCESSIBLE, 1 ¼" NPT SUPPLY AND ¼" NPTF DRAIN WITH ELBOW AND PIPE EXTENDED TO 6" A.F.F. FG20 REGULATES SHOWER FLOW TO 20 GPM. INSTALL IN ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY.
	GUARDIAN	TMV 63800LF	EMERGENCY EYE/FACEWASH MIXING VALVE - 29.0 GPM @ 10 PSI DROP. MIXING VALVE WILL CLOSE DOWN ON FAILURE OF COLD WATER. SPECIAL INTERNAL COLD WATER BYPASS. COMPLIANCE WITH ANSI Z 358.1
WBP-1	CENTRIPRO/XYLEM	5AVN11OHM04	TRUCK FILL NON-POTABLE WATER BOOSTER PUMP AQUAVAR VARIABLE SPEED CONSTANT PRESSURE SYSTEM, 5 HP IPC CONTROLLER, WALL MOUNT KIT, LCC STAINLESS STEEL PUMP, TRANSDUCER, V45P (13.9 GALLON) EXPANSION TANK, PRESSURE GAUGE AND DISCHARGE PIPE TEE, CONTROLLER PREWIRED, CHECKVALVE ON DISCHARGE, RELIEF VALVE. 50 GPM @ 60 PSI BOOST. PUMP (E-HM 4-STAGE) - 5.0 HP - 208V/1
WBP-2	GRUNDFOS	MPC-E 2CRE 10-6	POTABLE WATER BOOSTER VARIABLE SPEED PACKAGED PUMPING SYSTEM. DUPLEX 5 HP TEFC MOTOR PUMP, 60 GPM @ 208 FEET HEAD (2) PUMPS, CONTROL PANEL, INDIVIDUAL PUMP FAULT LIGHTS ON THE CONTROL PANEL, INDIVIDUAL PUMP DISCONNECT SWITCHES, WATER PRESENCE SENSOR ON THE SUCTION MANIFOLD IN PLACE OF THE SUCTION TRANSDUCER, LIGHTING PROTECTION, NORMAL/EMERGENCY SWITCHES, EXPANSION TANK THE JOHN WOOD COMPANY MODEL #JAPR-20-602, PANEL MOUNTED PUMP RUN LIGHTS, AUDIO FAULT INDICATOR HORN WITH SILENCE BUTTON, DOME LIGHT AND FACTORY AUTHORIZED START-UP. 208V/3.
SP-1	STANCOR	SE-50	OIL-MINDER SIMPLEX PUMP AND CONTROL SYSTEM, NEMA 4X CORROSION RESISTANT POLYCARBONATE ENCLOSURE, STAINLESS STEEL SENSOR PROBE, DIRECT PLUG-IN POWER SOURCE, SOLID STATE COMPONENTS, ALARMS, LIGHTS, SILENCE SWITCH, REMOTE MONITORING CIRCUIT FOR OIL, HIGH LIQUID AND HIGH AMPERAGE CONDITIONS. FACTORY ASSEMBLED AND TESTED. 74 GPM @ 37 FT HEAD. - ½ HP - 120V/1
WH-1, 2	TRIANGLETUBE	SMART 100	INDIRECT DOMESTIC WATER HEATER, STORAGE CAPACITY 95 GALLONS, FIRST HOUR 525 GALLONS @ 90°F RISE. INPUT 337,000 BTU/HR @ 25 GPM - 200°F
ST-1	AMTROL	ST-42V	THERM-X-TROL DOMESTIC HOT WATER SYSTEM THERMAL EXPANSION TANK, MAXIMUM WORKING PRESSURE 150 (PSIG)

PLUMBING EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
—— S ——	————	————	SANITARY PIPING, SCHEDULE 40 PVC, PVC FITTINGS WITH SOLVENT WELDED JOINTS BELOW GRADE. SERVICE WEIGHT CAST IRON HUBLESS PIPE WITH NEOPRENE GASKET, STAINLESS STEEL CLAMP AND SHIELD ASSEMBLY JOINTS 6" ABOVE GRADE. SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS 6" ABOVE GRADE MAY BE USED IN NONE CEILINS RETURN AIR PLENUM SPACES. SEE HVAC DRAWINGS. PVC MAY NOT BE USED IN HVAC CEILING RETURN AIR PLENUM SPACES.
— — V — —	————	————	VENT PIPING, SCHEDULE 40 PVC, PVC FITTINGS WITH SOLVENT WELDED JOINTS BELOW GRADE AND SERVICE WEIGHT CAST IRON HUBLESS PIPE WITH NEOPRENE GASKET, STAINLESS STEEL CLAMP AND SHIELD ASSEMBLY JOINTS 6" ABOVE GRADE. SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS 6" ABOVE GRADE MAY BE USED IN NONE HVAC CEILING PLENUM SPACES. SEE HVAC DRAWINGS. PVC MAY NOT BE USED IN HVAC CEILING RETURN AIR PLENUM SPACES.
—— C ——	————	————	DOMESTIC COLD WATER PIPING, COPPER TYPE "L" WITH LEADFREE SOLDER JOINTS ABOVE GRADE AND COPPER TYPE "K" FOR UNDERGROUND PIPING. NO JOINTS PERMITTED BELOW GRADE. INSULATE UNDERGROUND WITH 1" THICK ELASTOMERIC INSULATION. INSULATE ALL ABOVE GROUND PIPING WITH ½" THICK FIBERGLASS PIPE INSULATION WITH VAPOR PROOF JACKET, TAPED JOINTS AND PVC FITTING COVERS, EXPOSED PIPING SHALL BE COVERED WITH PVC PIPE COVER AND PAINTED. (1) - COAT PRIMER, (2) COATS - PAINT. COLOR AS DIRECTED BY ARCHITECT
—— H ——	————	————	DOMESTIC HOT WATER PIPING, COPPER TYPE "L" WITH LEADFREE SOLDER JOINTS ABOVE GRADE AND COPPER TYPE "K" FOR UNDERGROUND PIPING. NO JOINTS PERMITTED BELOW GRADE. INSULATE UNDERGROUND PIPING UP TO 1 ½" DIA WITH 1" AND PIPING ABOVE 1 ½" DIA USE 1 ½" THICK ELASTOMERIC INSULATION. INSULATE ALL ABOVE GROUND PIPING UP TO 1 ½" DIA WITH 1" AND PIPING ABOVE 1 ½" DIA USE 1 ½" THICK FIBERGLASS PIPE INSULATION WITH VAPOR PROOF JACKET, TAPED JOINTS AND PVC FITTING COVERS. EXPOSED PIPING SHALL BE COVERED WITH PVC PIPE COVER AND PAINTED. (1) - COAT PRIMER, (2) COATS - PAINT. COLOR AS DIRECTED BY ARCHITECT
—— R ——	————	————	DOMESTIC HOT WATER RECIRCULATION PIPING, COPPER TYPE "L" WITH LEADFREE SOLDER JOINTS ABOVE GRADE AND COPPER TYPE "K" FOR UNDERGROUND PIPING. NO JOINTS PERMITTED BELOW GRADE. INSULATE UNDERGROUND PIPING UP TO 1 ½" DIA WITH 1" AND PIPING ABOVE 1 ½" DIA USE 1 ½" THICK ELASTOMERIC INSULATION. INSULATE ALL ABOVE GROUND PIPING UP TO 1 ½" DIA WITH 1" AND PIPING ABOVE 1 ½" DIA USE 1 ½" THICK FIBERGLASS PIPE INSULATION WITH VAPOR PROOF JACKET, TAPED JOINTS AND PVC FITTING COVERS. EXPOSED PIPING SHALL BE COVERED WITH PVC PIPE COVER AND PAINTED. (1) - COAT PRIMER, (2) COATS - PAINT. COLOR AS DIRECTED BY ARCHITECT
—— NPC ——	————	————	NON-POTABLE TRUCK FILL WATER PIPING, COPPER TYPE "L" WITH LEADFREE SOLDER JOINTS ABOVE GRADE AND COPPER TYPE "K" FOR UNDERGROUND PIPING. NO JOINTS PERMITTED BELOW GRADE. INSULATE UNDERGROUND WITH 1" THICK ELASTOMERIC INSULATION. INSULATE ALL ABOVE GROUND PIPING WITH ½" THICK FIBERGLASS PIPE INSULATION WITH VAPOR PROOF JACKET, TAPED JOINTS AND PVC FITTING COVERS. EXPOSED PIPING SHALL BE COVERED WITH PVC PIPE COVER AND PAINTED. (1) - COAT PRIMER, (2) COATS - PAINT. COLOR AS DIRECTED BY ARCHITECT
—— CA ——	————	————	COMPRESSED AIR PIPING, SCHEDULE 40 GALVANIZED STEEL WITH SCREWED JOINTS AND FITTINGS A120 STANDARD WEIGHT.
—— FM ——	————	————	FORCED SANITARY MAIN PIPE, COPPER TYPE "L" WITH LEADFREE SOLDER JOINTS.
CA	————	————	COMPRESSED AIR QUICK DISCONNECT FITTING. COORDINATE EXACT SIZE AND TYPE WITH FIRE DEPARTMENT.
TF	POTTER ROEMER	4065	TRUCK FILL ANGLE HOSE VALVE, 2 ½" POLISHED CHROME. WITH (1½" OR 1¾") HOSE ADAPTER FITTING AS APPROVED BY FIRE DEPARTMENT PRIOR TO INSTALLATION.
⋈	NIBCO	————	BALL VALVE, BRONZE BODY, FULL PORT.
—▽	————	————	TRAP
HR-1	HANNY	818-25-26B	WATER HOSE REEL, HEAVY-DUTY SERIES 800, ¾" ID HOSE - 70 FEET LENGTH FLEX TROL, 1000 PSI, ¾" HOSE CONNECTION WITH MOUNTING BRACKETS, HOSE INLET KIT, HOSE STOP KIT AND NOZZLE (AS SELECTED BY FIRE COMPANY). EXACT LOCATION AND MOUNTING HEIGHT AS DIRECTED BY ARCHITECT.
	T&S BRASS	MV-0771-12N-BV	WASHDOWN STATION ¾" HOT & COLD WITH CHECKVALVES, BALL VALVES, STAINLESS STEEL HOSE RACK, ¾" OUTLET HOSE CONNECTION.
CAHR-1	HANNY	N716-19-20-10.5J	COMPRESSED AIR HOSE REEL, HEAVY-DUTY SERIES N700, ⅜" ID HOSE - 50 FEET LENGTH, 3000 PSI, ½" HOSE CONNECTION WITH MOUNTING BRACKETS, HOSE INLET KIT, HOSE STOP KIT AND QUICK DISCONNECT AIR FITTING (AS SELECTED BY FIRE COMPANY). EXACT LOCATION AND MOUNTING HEIGHT AS DIRECTED BY ARCHITECT.
AEHR-1	COXREELS	C-L-350-5012-A	DUAL PURPOSE HOSE REELS C-SERIES - COMPRESSED AIR/ELECTRIC HOSE REEL, SPRING DRIVEN, ⅜" ID HOSE - 50 FEET LENGTH, 300 PSI, ELECTRIC CORD 12/3 - 50 FEET SINGLE INDUSTRIAL RECEPTACLE - 20 AMP. ½" HOSE CONNECTION WITH MOUNTING BRACKETS, HOSE INLET KIT, HOSE STOP KIT AND QUICK DISCONNECT AIR FITTING (AS SELECTED BY FIRE COMPANY). EXACT LOCATION AND MOUNTING HEIGHT AS DIRECTED BY ARCHITECT.
SA	ZURN	Z-1700 SERIES	WATER HAMMER ARRESTER, STAINLESS STEEL CONSTRUCTION, PRESSURIZED COMPRESSION CHAMBER, COMPLIANT WITH PDI STANDARD WH-201.
WC-1	AMERICAN STANDARD	3351.101	AFWALL EL 1.28 ELONGATED WALL HUNG FLUSH VALVE TOILET, VITREOUS CHINA, DIRECT-FED SIPHON JET, 1½" TOP SPUD INLET, OPEN FRONT SEAT LESS COVER, AND WALL MOUNT CARRIER. COLOR AS DIRECTED BY ARCHITECT. INSTALL FIXTURE IN ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY.
	SLOAN	111-1.28 ES-S	EXPOSED SENSOR OPERATED WATER CLOSET FLUSHOMETER, LOW CONSUMPTION (1.6 GPF) WITH EL-154 TRANSFORMER (120 VAC / 24 VAC).
WC-2	AMERICAN STANDARD	3351.101	AFWALL EL 1.28 ELONGATED WALL HUNG FLUSH VALVE TOILET, VITREOUS CHINA, DIRECT-FED SIPHON JET, 1½" TOP SPUD INLET, OPEN FRONT SEAT LESS COVER, AND WALL MOUNT CARRIER. COLOR AS DIRECTED BY ARCHITECT.
	SLOAN	111-1.28 ES-S	EXPOSED SENSOR OPERATED WATER CLOSET FLUSHOMETER, LOW CONSUMPTION (1.6 GPF) WITH EL-154 TRANSFORMER (120 VAC / 24 VAC).
UR-1	AMERICAN STANDARD	6509.001	WASHBROOK URINAL CONSTRUCTED OF VITREOUS CHINA, TOP SPUD LOW CONSUMPTION (0.5 GPF). COLOR AS DIRECTED BY ARCHITECT. INSTALL IN ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY
	SLOAN	186-0.5 ES-S	EXPOSED SENSOR OPERATED URINAL FLUSHOMETER, LOW CONSUMPTION (0.5 GPF) WITH EL-154 TRANSFORMER (120 VAC / 24 VAC).
UR-2	AMERICAN STANDARD	6509.001	WASHBROOK URINAL CONSTRUCTED OF VITREOUS CHINA, TOP SPUD LOW CONSUMPTION (0.5 GPF). COLOR AS DIRECTED BY ARCHITECT.
	SLOAN	186-0.5 ES-S	EXPOSED SENSOR OPERATED URINAL FLUSHOMETER, LOW CONSUMPTION (0.5 GPF) WITH EL-154 TRANSFORMER (120 VAC / 24 VAC).
L-1	————	————	SOLID SURFACE COUNTERTOP WITH INTEGRAL SINK
	SLOAN	ETF-600	OPTIMA ELECTRONIC HAND WASHING FAUCET 0.5 GPM VANDAL RESISTANT SPRAY HEAD. SENSOR ACTIVATED WITH 4" DECK PLATE, SOLID BRASS SOLENOID, PLUG-IN TRANSFORMER 120 VAC / 12 VDC. THERMOSTATIC MIXING VALVE, KEY OPERATED STOPS, 17 GAUGE P-TRAP W/CLEANOUT AND GRID STRAINER. IPS TRUEBRO LAV GUARD INSULATION KIT. INSTALL IN ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY - 120 VAC/24 VAC.
L-2	AMERICAN STANDARD	0355.034	LUCERNE WALL HUNG LAVATORY VITREOUS CHINA, ADA, 4" CENTERS FAUCET HOLES, EXTRA RIGHT HAND HOLE, FLOOR MOUNTED CONCEALED ARM SUPPORT CARRIER, SOAP DISPENSER CHROME, CHROME OFFSET GRID DRAIN WITH OVERFLOW AND 17 GAUGE TRAP, CHROME WATER SUPPLIES AND KEY OPERATED STOPS, IPS TRUEBRO LAV GUARD INSULATION KIT. INSTALL IN ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY.
	ZURN	Z1231	CONCEALED ARM SUPPORT CARRIER FOR WALL LAVATORIES.
	SLOAN	ETF-600	OPTIMA ELECTRONIC HAND WASHING FAUCET 0.5 GPM VANDAL RESISTANT SPRAY HEAD. SENSOR ACTIVATED WITH 4" DECK PLATE, SOLID BRASS SOLENOID, PLUG-IN TRANSFORMER 120 VAC / 12 VDC. THERMOSTATIC MIXING VALVE, KEY OPERATED STOPS, 17 GAUGE P-TRAP W/CLEANOUT AND GRID STRAINER. INSTALL IN ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY - 120 VAC/24 VAC.
SH-1	SYMMONS	SAFETYMIX I-117-FS	SHOWER VALVE, PRESSURE BALANCING, LEVERTROL LEVER DIVERTER, SUPER SHOWER HEAD, FSB HAND SPRAY UNIT WITH 60" FLEXIBLE HOSE, 30" SLIDE BAR, WALL CONNECTION, IN-LINE VACUUM BREAKER, INTEGRAL STOPS, 2.0 GPM RESTRICTOR, LEVER HANDLE CONTROL, ADA COMPLIANT. INSTALL IN ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY. SEE ARCHITECTURAL DRAWINGS
SH-2	SYMMONS	SAFETYMIX I-117-FS	SHOWER VALVE, PRESSURE BALANCING, LEVERTROL LEVER DIVERTER, SUPER SHOWER HEAD, FSB HAND SPRAY UNIT WITH 60" FLEXIBLE HOSE, 30" SLIDE BAR, WALL CONNECTION, IN-LINE VACUUM BREAKER, INTEGRAL STOPS, 2.0 GPM RESTRICTOR, LEVER HANDLE CONTROL, ADA COMPLIANT. INSTALL IN ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY. SEE ARCHITECTURAL DRAWINGS
	ZURN	415	FLOOR DRAIN, DURA COATED, 5" x 5" SQUARE NICKEL BRONZE TYPE "S" STRAINER, 2" OUTLET.
SH-3	SYMMONS	SAFETYMIX I-117-FS	SHOWER VALVE, PRESSURE BALANCING, LEVERTROL LEVER DIVERTER, SUPER SHOWER HEAD, FSB HAND SPRAY UNIT WITH 60" FLEXIBLE HOSE, 30" SLIDE BAR, WALL CONNECTION, IN-LINE VACUUM BREAKER, INTEGRAL STOPS, 2.0 GPM RESTRICTOR, LEVER HANDLE CONTROL, ADA COMPLIANT. INSTALL IN ACCORDANCE WITH ANSI A117.1 AND ADA STANDARDS FOR HANDICAP ACCESSIBILITY. SEE ARCHITECTURAL DRAWINGS
	ZURN	415	FLOOR DRAIN, DURA COATED, 5" x 5" SQUARE NICKEL BRONZE TYPE "S" STRAINER, 2" OUTLET.
FD-1	ZURN	415	FLOOR DRAIN, DURA COATED, 6" x 6" SQUARE NICKEL BRONZE TYPE "S" STRAINER, 3" OUTLET.
	PROSET	TRAP GUARD	TRAP GUARD FOR EMERGENCY FLOOR
FD-2	ZURN	Z-415	FLOOR DRAIN, DURA COATED, 6" x 6" SQUARE NICKEL BRONZE TYPE "S" STRAINER, 4" OUTLET AND TRAP PRIMER CONNECTION.
FD-3	ZURN	Z534-92	FLOOR DRAIN, DURA COATED HEAVY DUTY (12 ½" x 12 ½") CAST IRON TOP ½ SLOTTED GRATE, SEEPAGE PAN AND SEDIMENT BUCKET. 4" OUTLET WITH TRAP PRIMER CONNECTION
FD-4	ZURN	Z-415	FLOOR DRAIN, DURA COATED, 5" ROUND NICKEL BRONZE TYPE "I" STRAINER, 3" OUTLET.
FS-1	ZURN	Z-1901	SANI-FLOR RECEPTOR, 12" x 12" x 8" DEEP CAST IRON BODY AND ½ GRATE SQUARE MEDIUM DUTY, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, 4" OUTLET.
FS-2	ZURN	Z-1910	SANI-FLOR RECEPTOR, 8" x 8" x 6" DEEP CAST IRON BODY AND SQUARE HOLE MEDIUM DUTY GRATE, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, 4" OUTLET WITH ½" TRAP PRIMER CONNECTION.

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2850
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-4620 FAX:(845) 225-4717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 364-4944 FAX:(518) 364-4956

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA2901

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

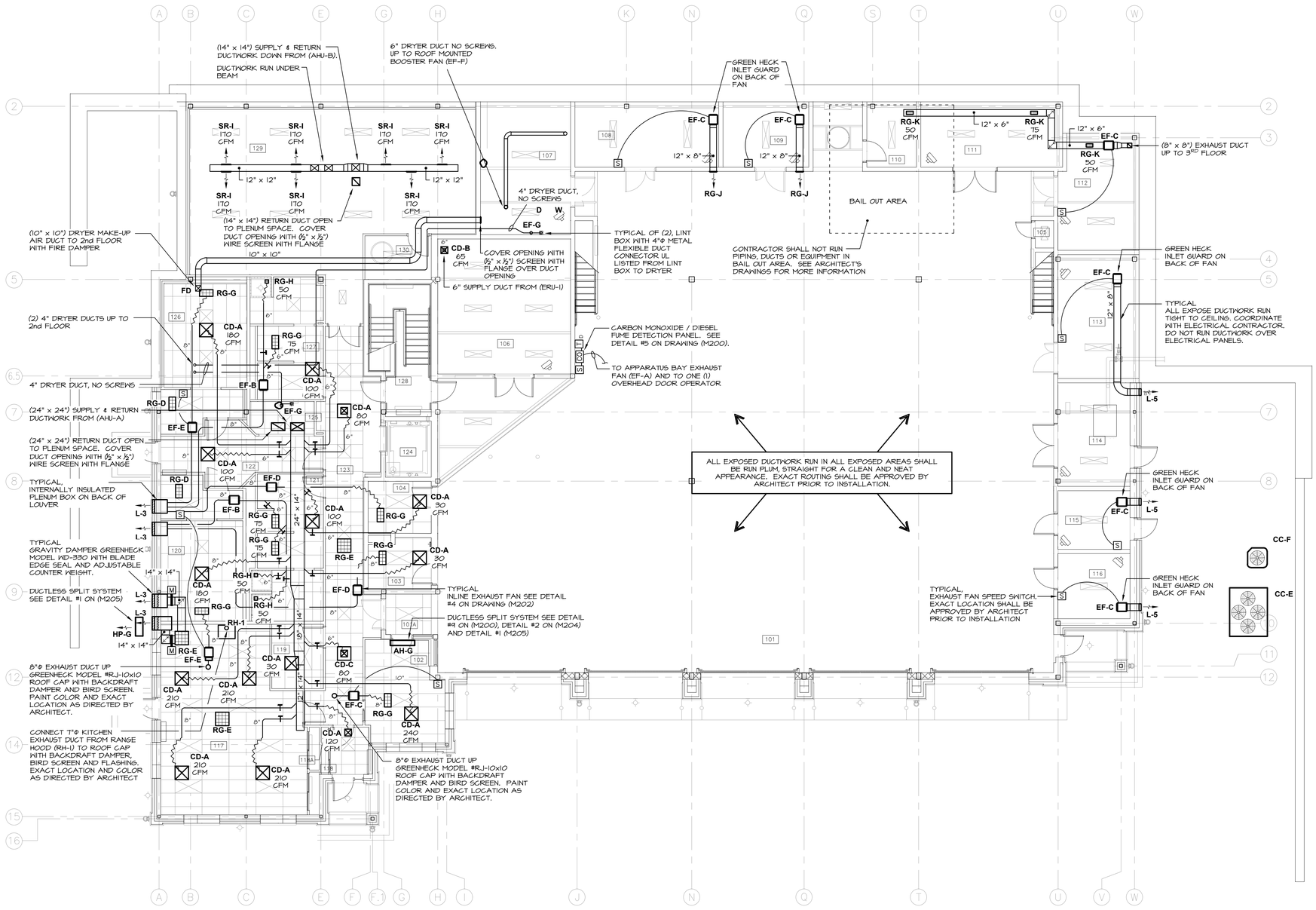
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

PLUMBING: EQUIPMENT SCHEDULES

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 12/16/2020
STATUS: HEALTH DEPARTMENT

P301



SEISMIC EQUIPMENT, DUCTWORK AND PIPE HANGER DESIGN

THE HVAC SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
HVAC CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

1 / M100 — 1st FLOOR REFLECTED CEILING PLAN
SCALE: ⅛" = 1'-0"

CALLED NORTH
NORTH

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

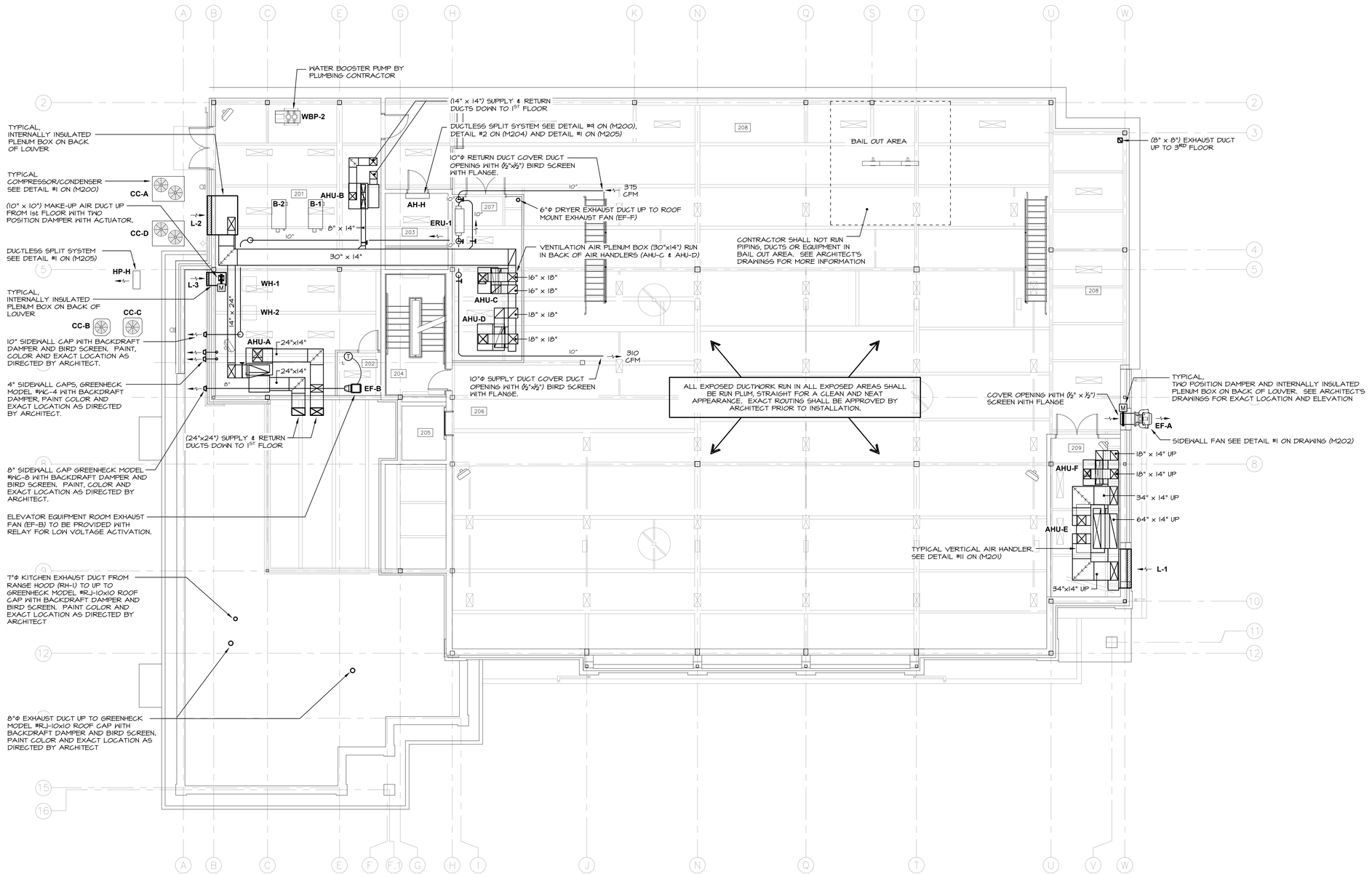
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL:
1st FLOOR
REFLECTED CEILING PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M100



SEISMIC EQUIPMENT, DUCTWORK AND PIPE HANGER DESIGN

THE HVAC SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
HVAC CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

1 / M101 — 2nd FLOOR REFLECTED CEILING PLAN
SCALE: ⅛" = 1'-0"

CALLED NORTH
NORTH

2nd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	206	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MEZZANINE 2
205	ELEVATOR		

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

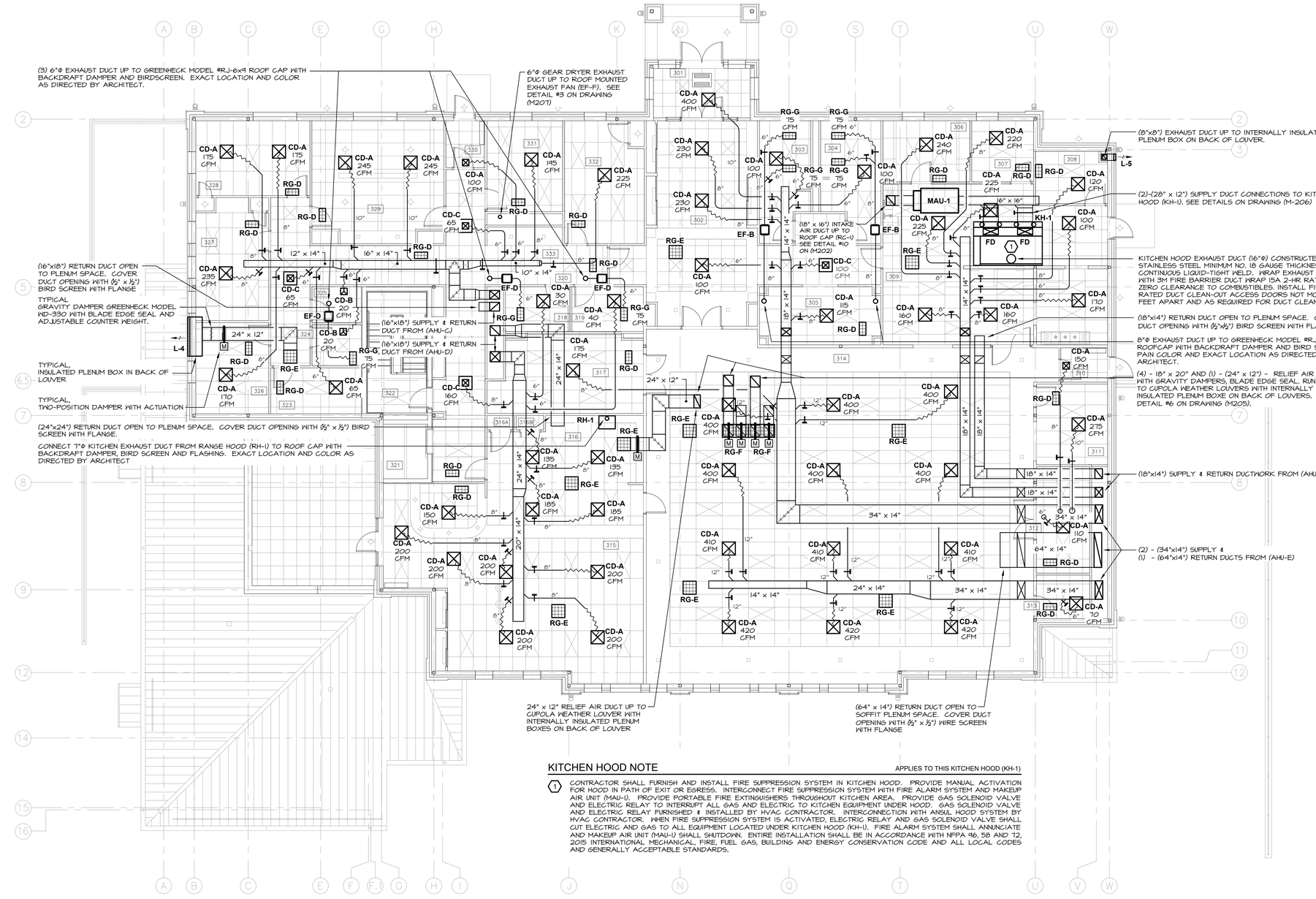
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL:
2nd FLOOR
REFLECTED CEILING PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M101



KITCHEN HOOD NOTE

APPLIES TO THIS KITCHEN HOOD (KH-1)

1. CONTRACTOR SHALL FURNISH AND INSTALL FIRE SUPPRESSION SYSTEM IN KITCHEN HOOD. PROVIDE MANUAL ACTIVATION FOR HOOD IN PATH OF EXIT OR EGRESS. INTERCONNECT FIRE SUPPRESSION SYSTEM WITH FIRE ALARM SYSTEM AND MAKEUP AIR UNIT (MAU-1). PROVIDE PORTABLE FIRE EXTINGUISHERS THROUGHOUT KITCHEN AREA. PROVIDE GAS SOLENOID VALVE AND ELECTRIC RELAY TO INTERRUPT ALL GAS AND ELECTRIC TO KITCHEN EQUIPMENT UNDER HOOD. GAS SOLENOID VALVE AND ELECTRIC RELAY FURNISHED & INSTALLED BY HVAC CONTRACTOR. INTERCONNECTION WITH ANSUL HOOD SYSTEM BY HVAC CONTRACTOR. WHEN FIRE SUPPRESSION SYSTEM IS ACTIVATED, ELECTRIC RELAY AND GAS SOLENOID VALVE SHALL CUT ELECTRIC AND GAS TO ALL EQUIPMENT LOCATED UNDER KITCHEN HOOD (KH-1). FIRE ALARM SYSTEM SHALL ANNUNCIATE AND MAKEUP AIR UNIT (MAU-1) SHALL SHUTDOWN. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, 5B AND 72, 2015 INTERNATIONAL MECHANICAL, FIRE, FUEL GAS, BUILDING AND ENERGY CONSERVATION CODE AND ALL LOCAL CODES AND GENERALLY ACCEPTABLE STANDARDS.

SEISMIC EQUIPMENT, DUCTWORK AND PIPE HANGER DESIGN

THE HVAC SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
HVAC CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

1 / M102 — 3rd FLOOR REFLECTED CEILING PLAN
SCALE: ⅛" = 1'-0"

CALLED NORTH
NORTH

3rd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
301	VESTIBULE	316B	CLOSET
302	LOBBY	317	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	318	WOMEN'S LAVATORY
304	PUBLIC WOMEN'S LAVATORY	319	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STOR.
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSE KEEPING
310	VESTIBULE	326	ASSISTANT CHIEFS
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEF'S OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4511 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

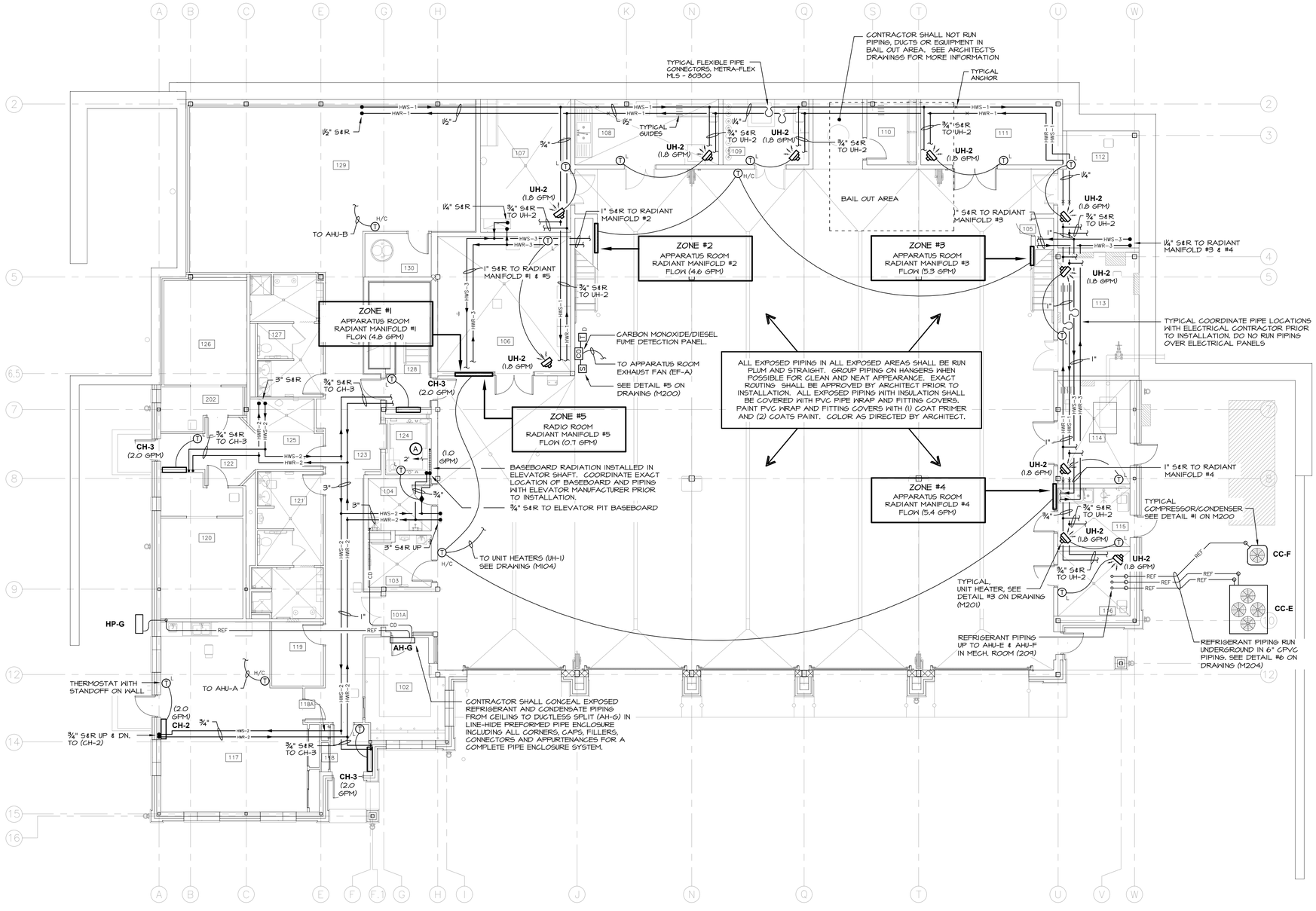
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL:
3rd FLOOR
REFLECTED CEILING PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M102



SEISMIC EQUIPMENT, DUCTWORK AND PIPE HANGER DESIGN

THE HVAC SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
HVAC CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

1 / M103 — 1st FLOOR PLAN
SCALE: ⅛" = 1'-0"

CALLED NORTH
NORTH

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

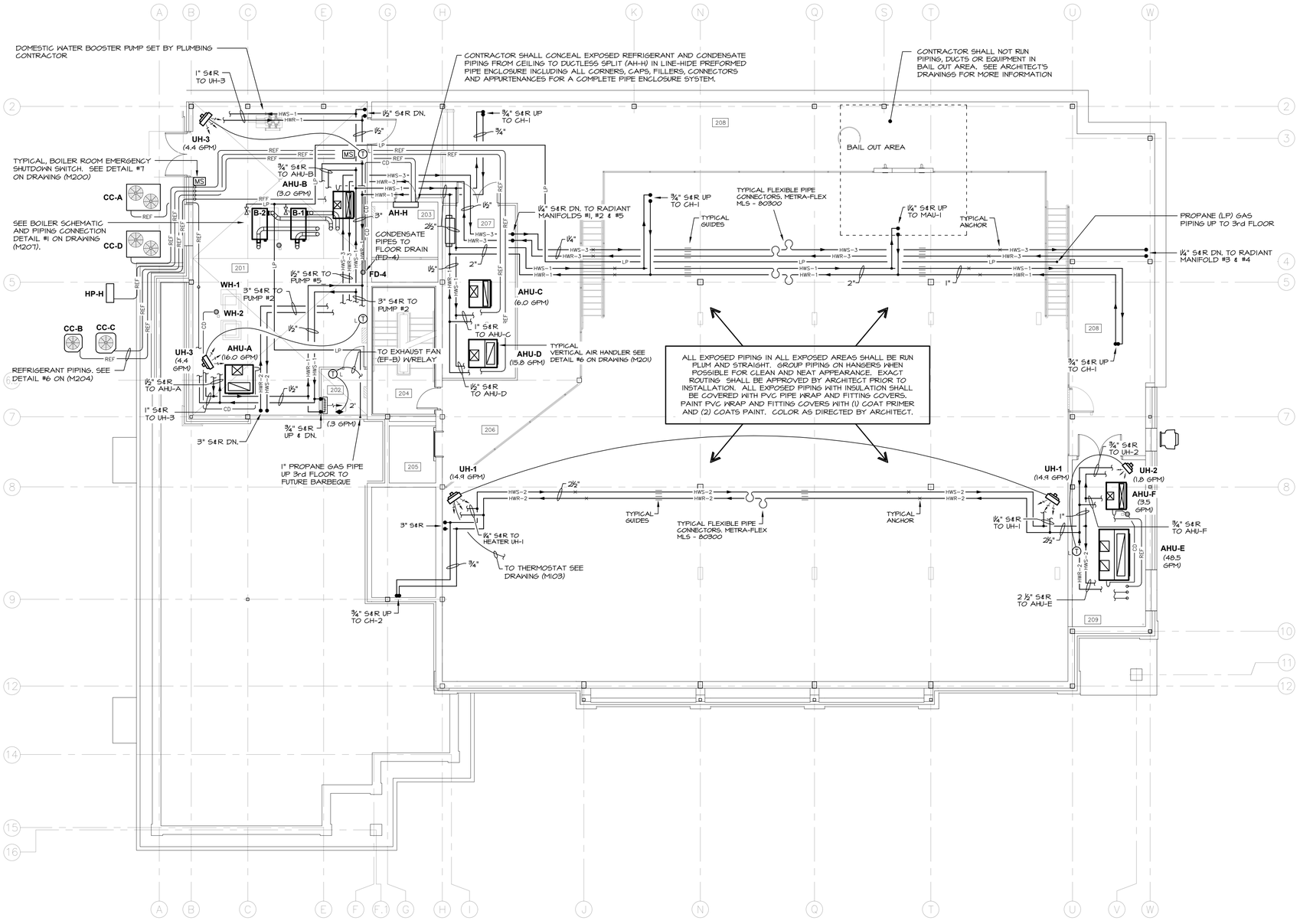
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL:
1st FLOOR PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M103



SEISMIC EQUIPMENT, DUCTWORK AND PIPE HANGER DESIGN

THE HVAC SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
HVAC CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

1 / M104 — 2nd FLOOR PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

2nd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	206	AREA OF REFUGE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MEZZANINE 2
205	ELEVATOR		

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA0901

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

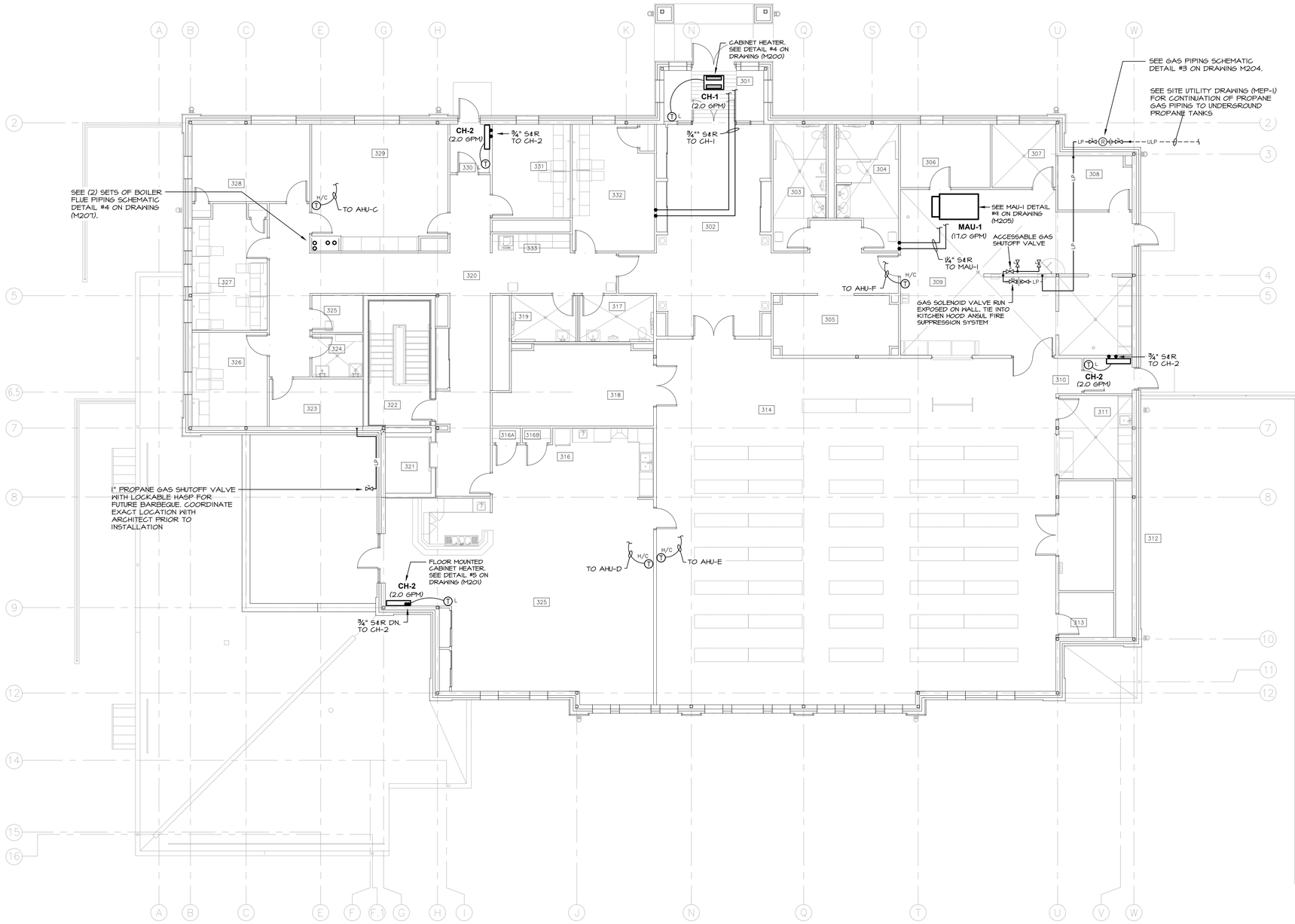
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL:
2nd FLOOR PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M104



SEISMIC EQUIPMENT, DUCTWORK AND PIPE HANGER DESIGN

THE HVAC SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
HVAC CONTRACTOR SHALL HIRE NY'S LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

1 / M105 — 3rd FLOOR PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

3rd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
301	VESTIBULE	316B	CLOSET
302	LOBBY	317	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	318	WOMEN'S LAVATORY
304	PUBLIC WOMEN'S LAVATORY	319	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STOR.
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSE KEEPING
310	VESTIBULE	326	ASSISTANT CHIEF'S
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEF'S OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

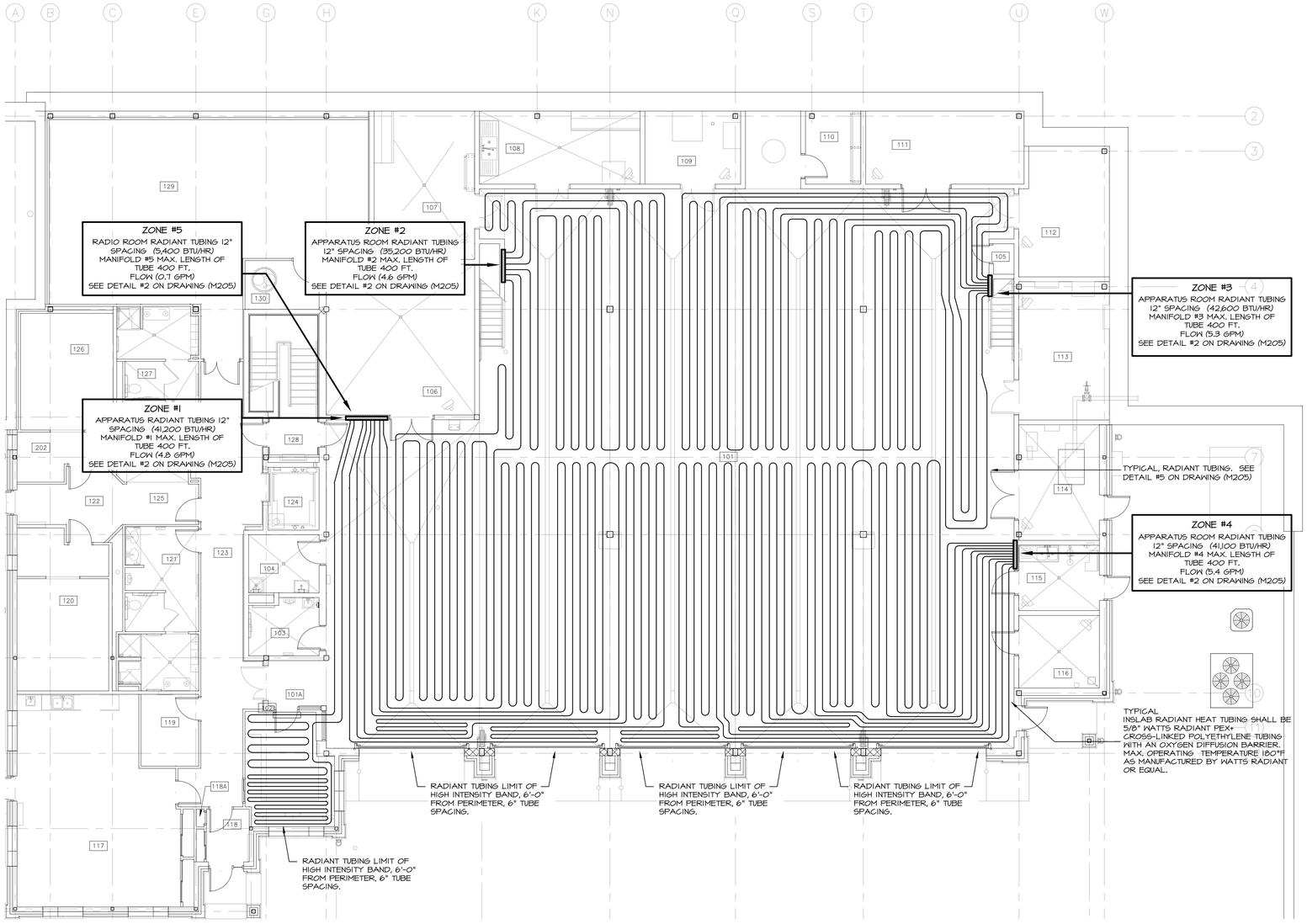
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL:
3rd FLOOR PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M105



1 / M106 1st FLOOR PLAN - RADIANT TUBING

SCALE: 1/8" = 1'-0"

CALLED NORTH

NORTH

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

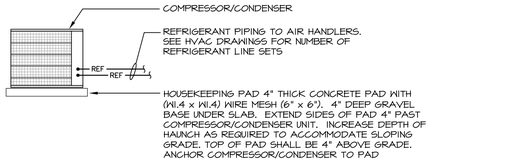
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL: 1st FLOOR PLAN - RADIANT TUBING

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M106

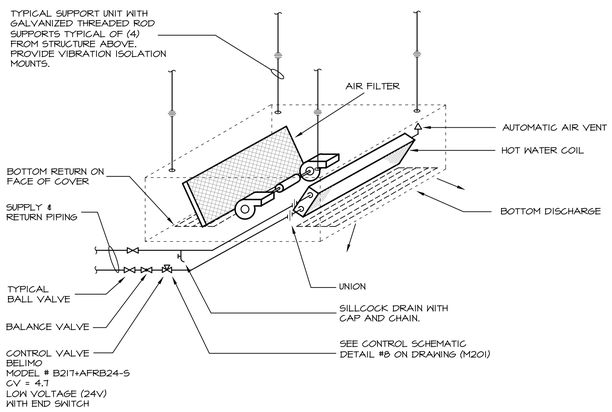


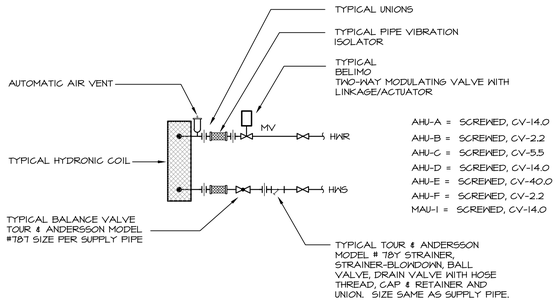
NOTE:

REFRIGERANT PIPING SHALL BE COPPER TUBING TYPE ACR HARD DRAWN. WROUGHT COPPER FITTINGS, SILVER BRAZE JOINTS. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS BASED ON ELEVATION AND LENGTH. INSULATE SUCTION LINE WITH 1 ½" ELASTOMETRIC CELLULAR FOAM. CONCEAL REFRIGERATION PIPING IN EXTERIOR WALLS AND ABOVE CEILINGS. SEAL EXTERIOR WALL PENETRATION WEATHER TIGHT. COLOR AS DIRECTED BY ARCHITECT.

1 M200 COMPRESSOR/CONDENSER DETAIL

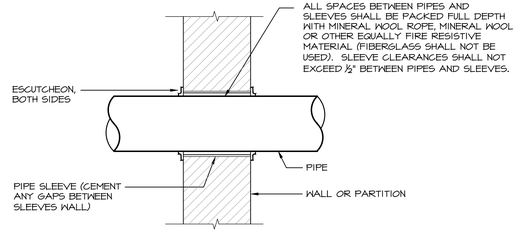
NOT TO SCALE





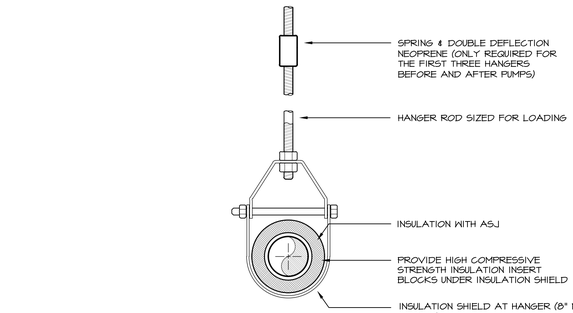
2 M200 AIR HANDLER/MAU-1 HYDRONIC COIL CONNECTION DETAIL

NOT TO SCALE



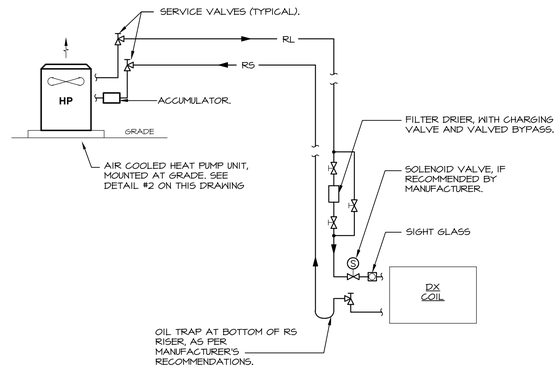
NOTE:

THIS DETAIL ALSO APPLICABLE TO INTERIOR NON-WATER PROOF FLOOR CONSTRUCTION. FOR WATER PROOF FLOOR CONSTRUCTION AND OTHER CONSTRUCTION - SEE SPECIFICATIONS.



3 M200 PIPE HANGER DETAIL

NOT TO SCALE

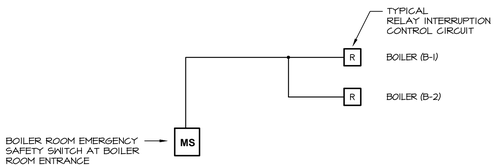


NOTES:

1. PROVIDE TRAPS AS FOLLOWS:
   - INSTALL TRAPS AT 1/3 INTERVALS.
2. REFRIGERANT PIPING SHALL BE INSTALLED SO THAT THEY WILL NOT OBSTRUCT SERVICE ACCESS TO EITHER THE INDOOR COIL OR CONDENSING UNIT, THE AIR HANDLER IN GENERAL OR THE FILTER.
3. SLOPE HORIZONTAL SUCTION LINES APPROX. 1" EVERY 20 FEET TOWARD THE CONDENSING UNIT TO FACILITATE OIL RETURN.
4. ALL FASTENERS AND SUPPORTS LOCATED OUTDOORS SHALL BE GALVANIZED.
5. PROVIDE RUBBER VIBRATION ISOLATION PADS BETWEEN CONDENSING UNIT AND STEEL DUNNAGE.
6. REFRIGERANT PIPE SIZING SHALL BE DETERMINED BY CONTRACTOR AND UNIT MANUFACTURER BASED ON FINAL PIPING LAYOUT AND ROUTING.

4 M200 HORIZONTAL CABINET HEATER DETAIL

NOT TO SCALE

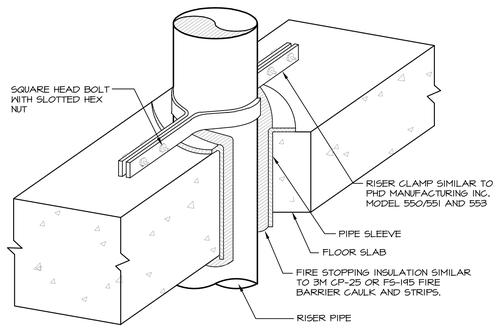


NOTE:

UPON ACTIVATION OF BOILER ROOM EMERGENCY SAFETY SWITCH, POWER TO THE CONTROL CIRCUIT RELAY SHALL BE INTERRUPTED, DE-ENERGIZING THE PRIMARY CONTROL CIRCUIT TO THE BOILERS.

5 M200 FIRE RATED PARTITION AND WALL PENETRATION DETAIL

NOT TO SCALE

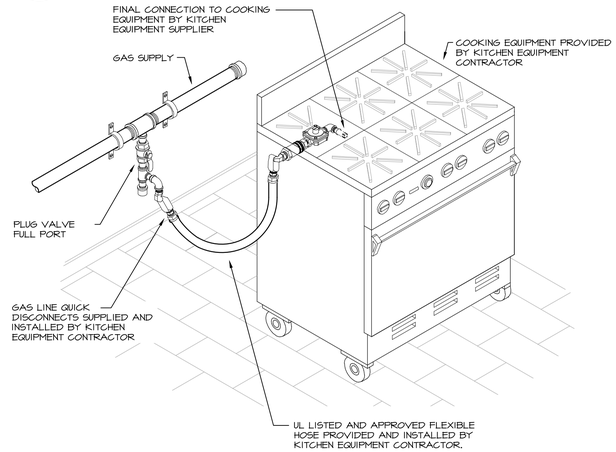


NOTES:

1) HOLES FOR PENETRATIONS SHALL BE CORE DRILLED.

6 M200 REFRIGERANT PIPING SCHEMATIC

NOT TO SCALE



7 M200 BOILER ROOM EMERGENCY SHUTDOWN STATION SCHEMATIC

NOT TO SCALE

8 M200 VERTICAL PIPE SUPPORT DETAIL

NOT TO SCALE

9 M200 QUICK DISCONNECT GAS HOSE ASSEMBLY

NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4511 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE

FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

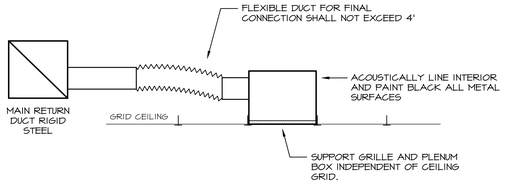
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL: DETAILS

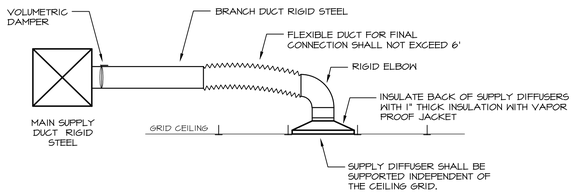
SCALE:	AS NOTED
DWG. BY:	KC
DWG. DATE:	8/14/2020
STATUS:	BID DRAWINGS

M200



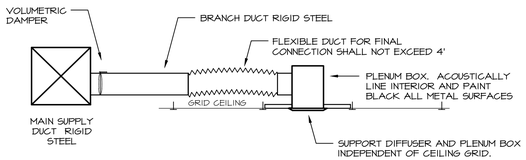
1 M201 RETURN GRILLE LAY-IN DETAIL

NOT TO SCALE



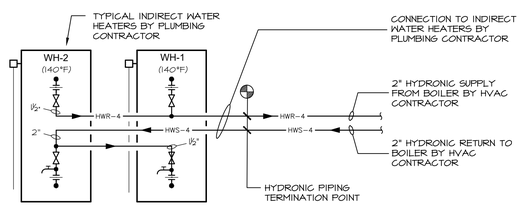
4 M201 SUPPLY DIFFUSER LAY-IN DETAIL

NOT TO SCALE



7 M201 SUPPLY DIFFUSER PANEL LAY-IN DETAIL

NOT TO SCALE

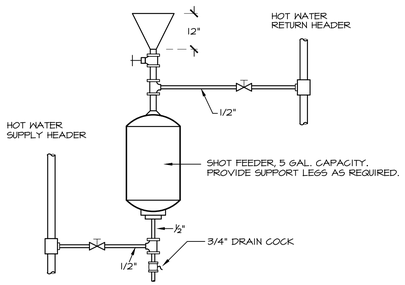


NOTE:

HVAC CONTRACTOR SHALL RUN HYDRONIC PIPING FROM BOILER UP TO INDIRECT WATER HEATERS. PLUMBING CONTRACTOR SHALL MAKE FINAL HYDRONIC PIPING CONNECTIONS TO INDIRECT HEATERS. COORDINATE HYDRONIC PIPING TERMINATION POINT WITH PLUMBING CONTRACTOR.

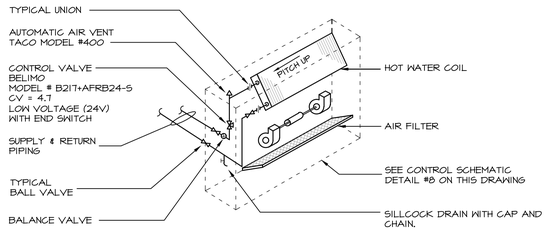
10 M201 INDIRECT WATER HEATER DETAIL

NOT TO SCALE



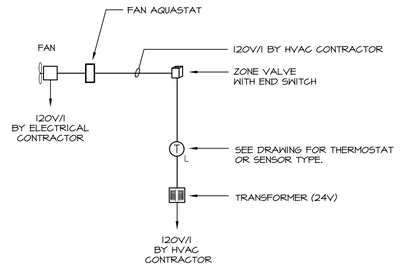
2 M201 SHOT FEEDER (SF-1) PIPING DETAIL

NOT TO SCALE



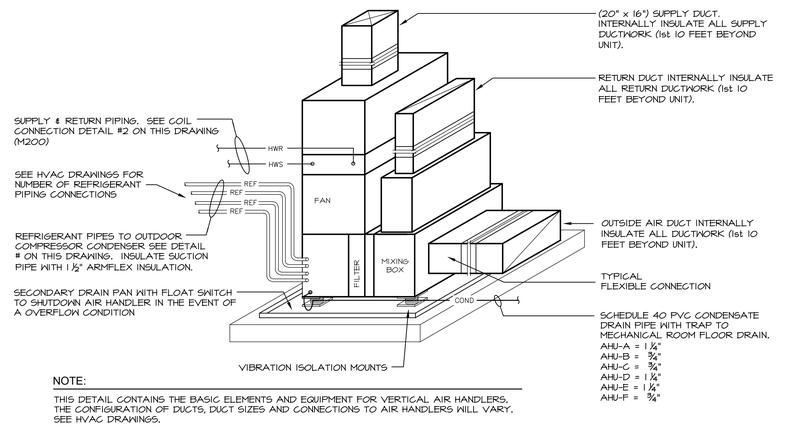
5 M201 VERTICAL CABINET HEATER DETAIL

NOT TO SCALE



8 M201 CABINET/UNIT HEATER CONTROL SCHEMATIC

NOT TO SCALE



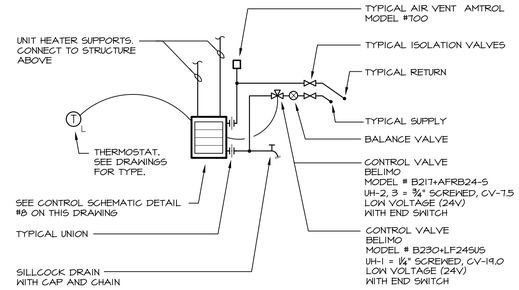
NOTE:

THIS DETAIL CONTAINS THE BASIC ELEMENTS AND EQUIPMENT FOR VERTICAL AIR HANDLERS. THE CONFIGURATION OF DUCTS, DUCT SIZES AND CONNECTIONS TO AIR HANDLERS WILL VARY. SEE HVAC DRAWINGS.

6 M201 VERTICAL AIR HANDLER UNIT DETAIL

NOT TO SCALE

VENTILATION SCHEDULE	
AIR HANDLER	VENTILATION CFM
AHU-A	425
AHU-B	200
AHU-C	415
AHU-D	555
AHU-E	2190
AHU-F	240

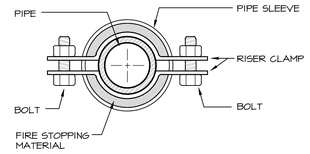


NOTE:

EXACT ELEVATION OF UNIT HEATER SHALL BE DETERMINED IN FIELD AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

3 M201 UNIT HEATER DETAIL

NOT TO SCALE



9 M201 SUPPORT ANCHOR PIPE RISERS

NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4511 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE

FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

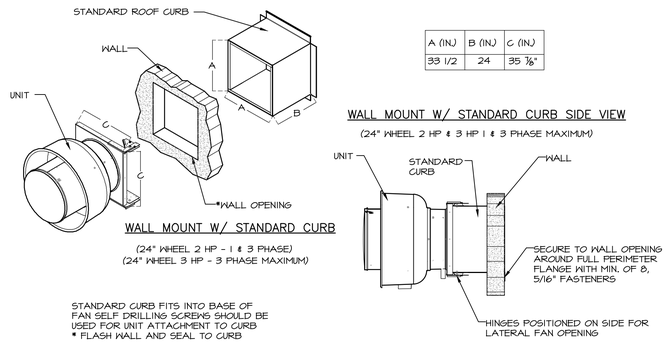
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL: DETAILS

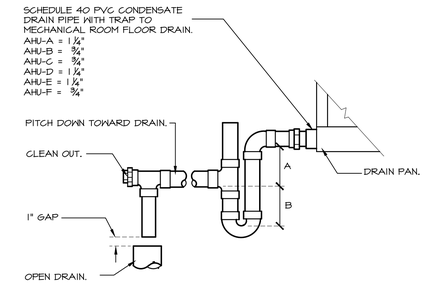
SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M201



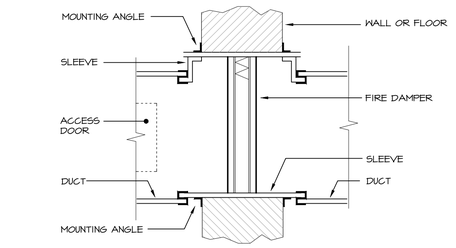
A (IN.)	B (IN.)	C (IN.)
33 1/2	24	35 7/8"

1 M202 EXHAUST FAN SIDEWALL DETAIL
NOT TO SCALE



NOTE:
DRAW THRU UNITS; DIMENSION A (DEPTH OF SEAL) SHALL BE 2" MINIMUM AND DIMENSION B SHALL BE 1.2 x THE STATIC PRESSURE OF THE UNIT.

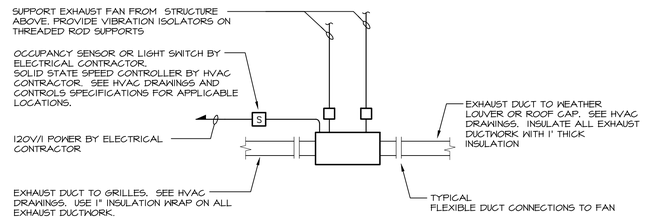
2 M202 CONDENSATE DRAIN DETAIL
NOT TO SCALE



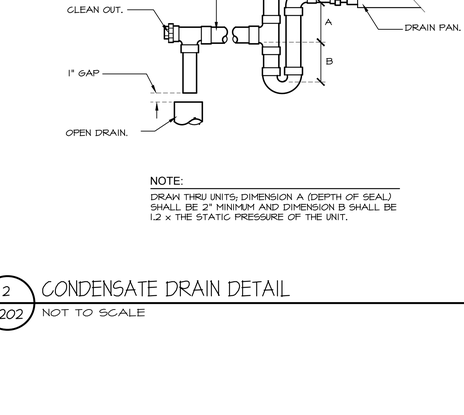
INSTALLATION REQUIREMENTS

1. REQUIREMENTS FOR AN APPROVED INSTALLATION INCLUDE THE FOLLOWING: OPENINGS IN THE FLOOR OR WALL SHALL BE 1/8" PER FOOT LARGER THAN DAMPER DIMENSIONS (3/8" LARGER PER FOOT FOR STAINLESS). MINIMUM CLEARANCE OF 1/4" REQUIRED FOR ANY INSTALLATION.
2. SLEEVE GAGE SHALL BE AT LEAST EQUAL TO THE GAGE OF THE DUCT AS DEFINED BY THE APPROPRIATE SMACNA DUCT CONSTRUCTION STANDARD, AS DESCRIBED IN NFPA90A. WHEN ONE OR MORE OF THE FOLLOWING DUCT CONNECTIONS ARE USED, PLAIN S SLIP, HEMMED S SLIP, STANDING S SLIP, REINFORCED STANDING S SLIP, INSIDE SLIP JOINT, OR DOUBLE S SLIP.
3. IF ANY OTHER DUCT SLEEVE CONNECTIONS ARE USED, THE SLEEVE SHALL BE MINIMUM 16 GAGE FOR DAMPERS UP TO 36" (W) x 24" (H) AND 14 GAGE IF WIDTH EXCEEDS 36" OR HEIGHT EXCEEDS 24".
4. MOUNTING ANGLES SHALL BE MINIMUM OF 1½" x 1½" x 14" GAGE AND BOLTED. TACK WELDED PR SCREWED TO SLEEVE AT MAXIMUM SPACING OF 12" AND WITH MINIMUM OF TWO CONNECTIONS IN EACH SIDE, TOP AND BOTTOM. MOUNTING ANGLES SHALL OVERLAP WALL A MINIMUM OF ONE INCH ON ALL FOUR SIDES.
5. DAMPER SHALL BE BOLTED, TACK WELDED, OR SCREWED TO SLEEVE ON SAME SPACING AS ANGLES. SLEEVES SHALL NOT EXTEND MORE THAN 6" OUTSIDE OF WALL.
6. IF GAP BETWEEN DUCT/SLEEVE AND CONSTRUCTION IS 1" OR LESS, PACK SPACE WITH FIREPROOF FIBROUS MATERIAL AND SEAL BOTH SIDES WITH NON-HARDENING FIREPROOF SEALER. IF GAP EXCEEDS 1", WRAP DUCT WITH 1" THICK FIREPROOF FIBROUS MATERIAL AND FILL REMAINING SPACE WITH GROUT.

3 M202 FIRE DAMPER DETAIL
NOT TO SCALE

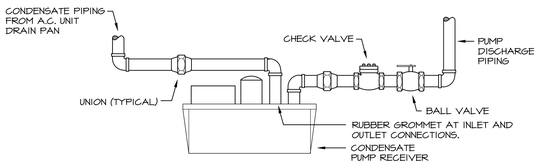


4 M202 INLINE EXHAUST FAN DETAIL
NOT TO SCALE

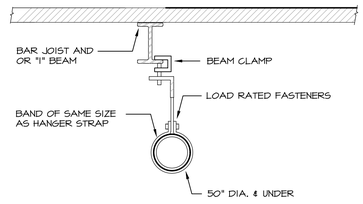


NOTE:
1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE GRADE.

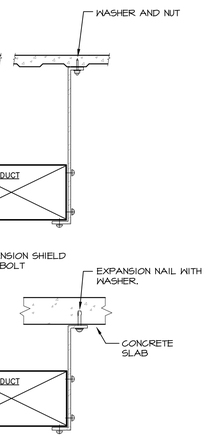
5 M202 EXTERIOR WALL PIPE PENTRATION DETAIL
NOT TO SCALE



6 M202 CONDENSATE PUMP PIPING SCHEMATIC
NOT TO SCALE

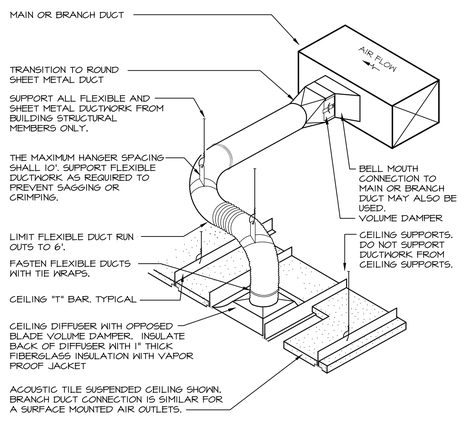


9 M202 CONCEALED ROUND DUCT HANGER DETAIL
NOT TO SCALE

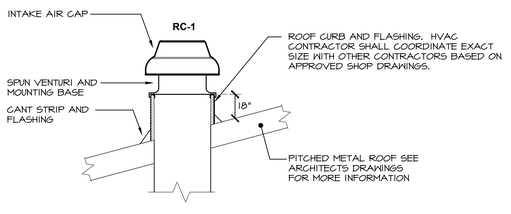


NOTES:
1) FOR DUCTS OVER 44" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.

7 M202 DUCT HANGER DETAIL
NOT TO SCALE



8 M202 FLEXIBLE DUCT CONNECTION DETAIL
NOT TO SCALE



10 M202 ROOF MOUNTED INTAKE AIR CAP DETAIL
NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717
CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955
GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

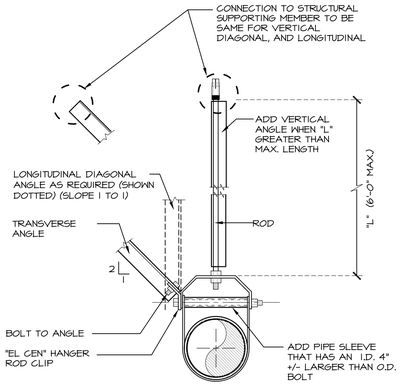
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL: DETAILS

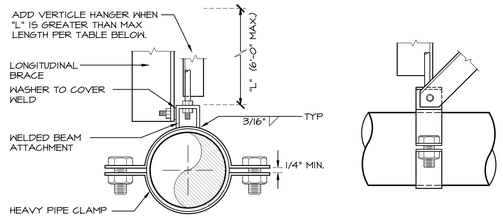
SCALE:	AS NOTED
DWG. BY:	KC
DWG. DATE:	8/14/2020
STATUS:	BID DRAWINGS

M202



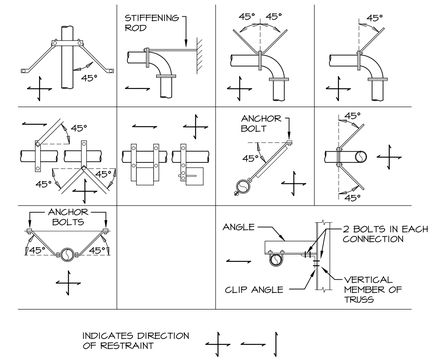
BRACE SPACING	PIPE	ROD	MAX. ROD LENGTH	VERT. HANGERS	TRANSVERSE HANGERS	BOLT
40'	2½"	½"	25"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
40'	3'	½"	25"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
40'	4'	⅝"	31"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
40'	6'	¾"	37"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
40'	8'	⅞"	43"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"

1 M203 TRANSVERSE SEISMIC PIPE BRACING
NOT TO SCALE

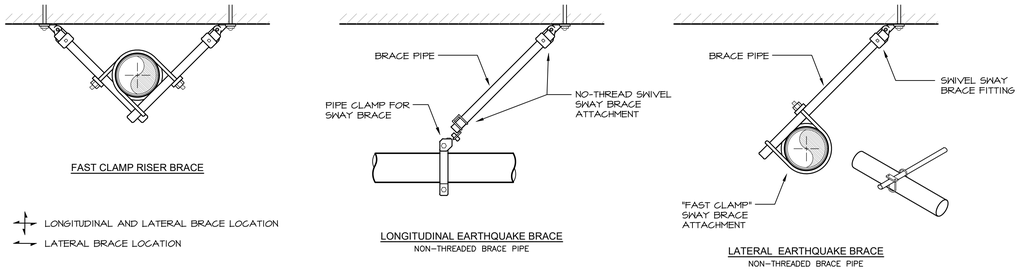


BRACE SPACING	PIPE	ROD	MAX. ROD LENGTH	VERT. HANGERS	TRANSVERSE HANGERS	BOLT
80'	2½"	½"	25"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
80'	3'	½"	25"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
80'	4'	⅝"	31"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
80'	6'	¾"	37"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"
80'	8'	⅞"	43"	2 x 2 x 16ga	2½" x 2½ x 16ga	⅜"

2 M203 LONGITUDINAL SEISMIC BRACING
NOT TO SCALE



3 M203 SEISMIC SWAY BRACING (GENERAL)
NOT TO SCALE



4 M203 SEISMIC HANGER DETAIL
NOT TO SCALE

SEISMIC EQUIPMENT, DUCTWORK AND PIPE HANGER DESIGN

THE HVAC SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
HVAC CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE PIPE SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
IMPORTANCE FACTOR - 1.5
BUILDING USE CATEGORY - IV
SIESMIC DESIGN CATEGORY - C

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

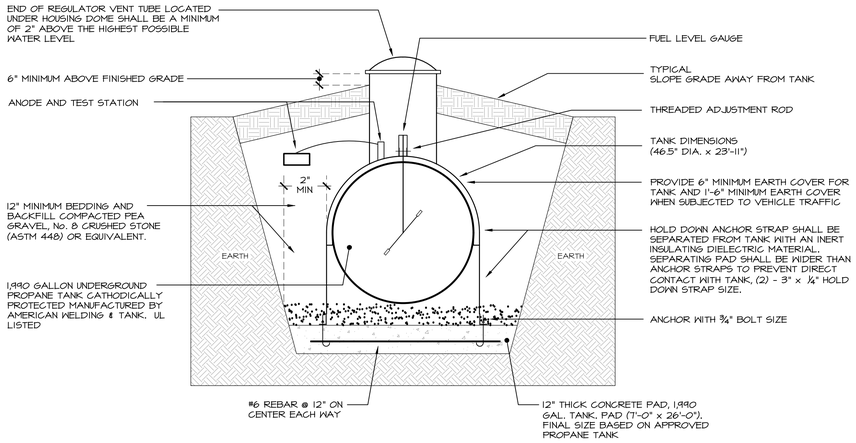
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL: DETAILS

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M203

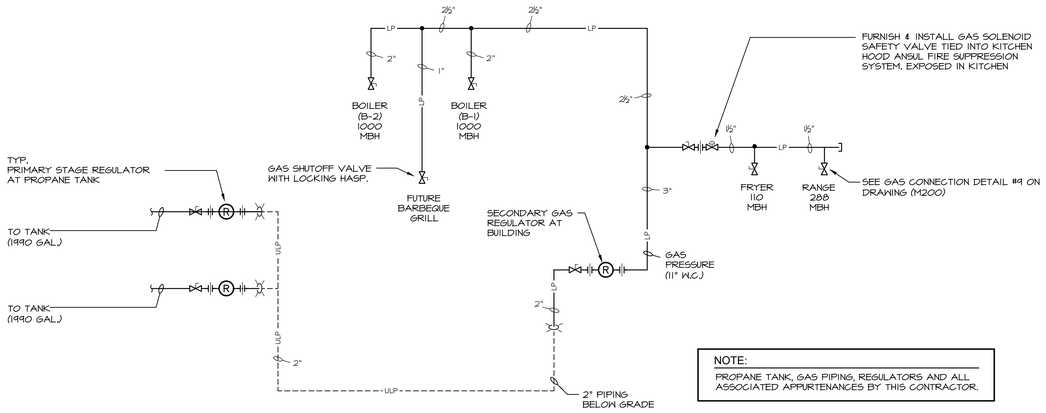


NOTES:

1. UNDERGROUND PROPANE TANK INSTALLATION SHALL BE IN ACCORDANCE WITH 2020 BUILDING, MECHANICAL AND FIRE CODE OF NEW YORK STATE, NFPA 58 & 54, UL LISTING REQUIREMENTS, GENERALLY ACCEPTED STANDARDS AND ALL LOCAL CODES.
2. CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH NEW PROPANE GAS SERVICE INCLUDING TANK, PIPING, REGULATORS AND ALL ASSOCIATED APPURTENANCES. PROPANE TANK SHALL BE FILLED IMMEDIATELY AFTER INSTALLATION AT THE OWNERS EXPENSE.
3. CONTRACTOR SHALL INSTALL TWO-STAGE REGULATOR SYSTEM. (1) ONE REGULATOR UNDER TANK DOME AND (1) ONE REGULATOR AT BUILDING. LOCATE TANK 25'-0" FROM ANY IGNITION SOURCES. THE DISTANCE CAN BE REDUCED TO NO LESS THAN 10 FT. FOR A SINGLE CONTAINER OF 1200 GAL. WATER CAPACITY OR LESS, PROVIDED SUCH CONTAINER IS AT LEAST 25 FT. FROM ANY OTHER LP GAS CONTAINER OF MORE THAN 125 GAL. WATER CAPACITY.

1 M204 UNDERGROUND PROPANE TANK DETAIL

NOT TO SCALE



NOTE:

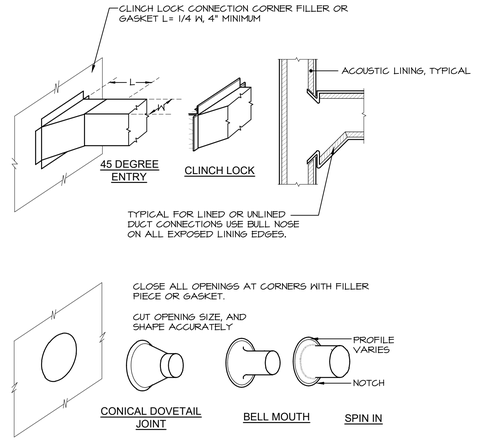
PROPANE TANK, GAS PIPING, REGULATORS AND ALL ASSOCIATED APPURTENANCES BY THIS CONTRACTOR.

NOTE:

ALL GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, 2020 FUEL GAS & FIRE CODE OF NEW YORK STATE, NFPA 58 AND AGA STANDARDS. ALL GAS PIPING SHALL BE CLEANED AND PAINTED (1) - COAT PRIMER AND (2) COATS PAINT. COLOR AS DIRECTED BY ARCHITECT. SEE ARCHITECT'S DRAWINGS AND SPECIFICATIONS FOR APPROVED MATERIALS AND METHODS OF INSTALLATION.

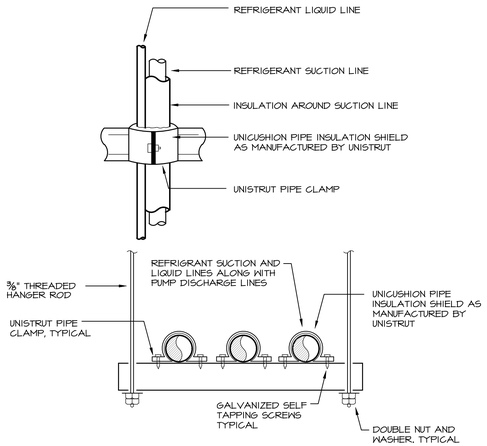
3 M204 GAS PIPING SCHEMATIC

NOT TO SCALE



5 M204 DUCT BRANCH CONNECTION DETAIL

NOT TO SCALE

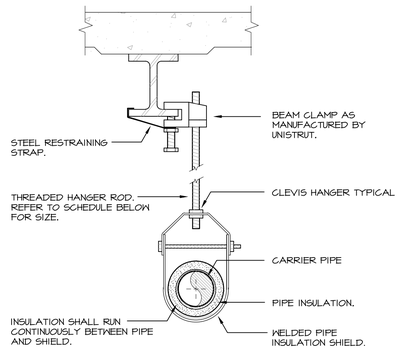


NOTES:

1) LIQUID AND SUCTION LINES MAY BE ROUTED TOGETHER FOR CONVENIENCE, BUT MUST BE COMPLETELY INSULATED FROM EACH OTHER. DO NOT SOLDER LIQUID AND SUCTION LINES TOGETHER. DO NOT ALLOW METAL TO METAL CONTACT.
2) LINES SHOULD BE INSTALLED WITH AS FEW BENDS AS POSSIBLE, ALLOWING SERVICE ACCESS TO THE INDOOR COIL.
3) USE LONG RADIUS ELBOWS WHEREVER POSSIBLE, EXCEPT IN OIL RETURN TRAPS, WHERE SHORT RADIUS ELBOWS SHOULD BE USED.
4) SLOPE HORIZONTAL SUCTION LINES 1 INCH EVERY 20 FEET TOWARD THE OUTDOOR UNIT.

2 M204 REFRIGERANT PIPE SUPPORT DETAIL

NOT TO SCALE



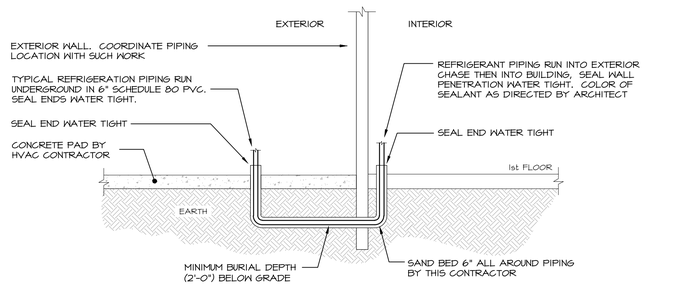
PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:

1) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 1005H ON ALL PIPES LARGER THAN 1".
2) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC SEPARATOR BETWEEN PIPE AND HANGERS.

4 M204 PIPE HANGER DETAIL

NOT TO SCALE



6 M204 UNDERGROUND REFRIGERANT PIPING DETAIL

NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
6 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

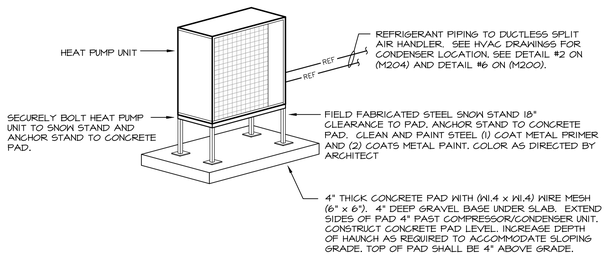
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL: DETAILS

SCALE:	AS NOTED
DWG. BY:	KC
DWG. DATE:	8/14/2020
STATUS:	BID DRAWINGS

M204

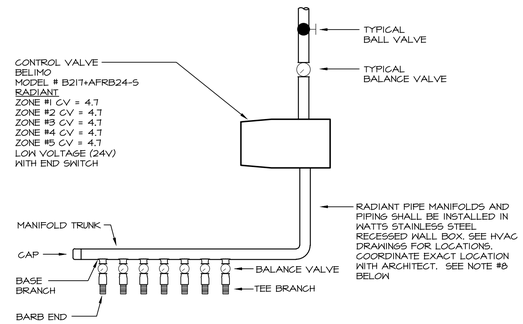


NOTE:

REFRIGERANT PIPING SHALL BE COPPER TUBING TYPE ACR HARD DRAWN. WROUGHT COPPER FITTINGS, SILVER BRAZE JOINTS. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS BASED ON ELEVATION AND LENGTH. INSULATE SUCTION LINE WITH 1 ½" ELASTROMETRIC CELLULAR FOAM. CONCEAL REFRIGERATION PIPING ABOVE CEILING. SEAL EXTERIOR WALL PENETRATION WEATHER TIGHT. COLOR AS DIRECTED BY ARCHITECT.

1 M205 HEAT PUMP UNIT DETAIL

NOT TO SCALE

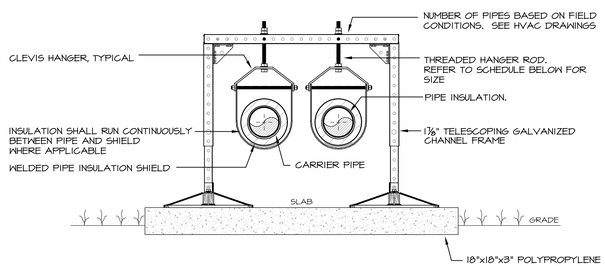


RADIANT HEAT NOTES

1. HVAC CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON RADIANT PIPING LAYOUT AND EQUIPMENT FOR ENGINEER'S REVIEW.
2. HVAC CONTRACTOR SHALL INSTALL ALL RADIANT HEAT PIPING AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. EXACT LOCATION OF RADIANT PIPE MANIFOLDS SHALL BE APPROVED BY ARCHITECT IN FIELD PRIOR TO INSTALLATION. PIPING COORDINATE INSTALLATION OF ALL RADIANT PIPING IN SLAB WITH GENERAL CONTRACTOR.
4. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS SHOWING EXACT LOCATIONS OF RADIANT PIPE AND MANIFOLDS.
5. FURNISH & INSTALL ACCESS DOORS FOR MANIFOLD SERVICING. EXACT LOCATION OF ACCESS DOOR SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION. PAINT ACCESS DOORS (1) - COAT PRIMER, (2) - COATS PAINT. COLOR OF ACCESS DOORS AS DIRECTED BY ARCHITECT. MATCH ACCESS DOOR FIRE RATING TO WALL/CEILING. PROVIDE METAL BACK BOXES FOR RADIANT MANIFOLDS SHOWN SURFACE MOUNTED ON WALLS.
6. INSLAB RADIANT TUBING SHALL BE 5/8" WATTS RADIANT PEX+ CROSS-LINKED POLYETHYLENE TUBING WITH AN OXYGEN DIFFUSION BARRIER. MAX. OPERATING TEMPERATURE 180°F AS MANUFACTURED BY WATTS RADIANT OR EQUAL.
7. HVAC CONTRACTOR SHALL SLEEVE RADIANT PIPING THAT PENETRATES OR COMES IN CONTACT WITH SHARP EDGES AND ABRASIVE SURFACES.
8. CONTRACTOR SHALL LOCATE RADIANT MANIFOLDS AND ASSOCIATED RADIANT PIPING IN STAINLESS STEEL MANIFOLD BOX MANUFACTURED BY WATTS RADIANT. EXACT SIZE AND NUMBER OF BOXES SHALL BE BASED ON APPROVED SHOP DRAWINGS.
9. SEE DETAIL #5 ON THIS DRAWING FOR RADIANT TUBING SLAB INSTALLATION.

2 M205 IN FLOOR RADIANT HEAT MANIFOLD

NOT TO SCALE



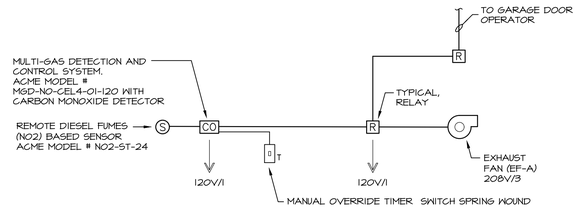
PIPE HANGER SCHEDULE					
PIPE DIA.	1/2"-1"	1¼"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:

1. PIPE SUPPORT SYSTEM SHALL BE BASED ON PHP SYSTEMS/DESIGN MODEL NUMBER PSE-CUSTOM OR PSE-2-2 DEPENDING ON NUMBER OF PIPES SUPPORTED.
2. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 1005H ON ALL PIPES R4 LARGER THAN 1".
3. BOTTOM OF PIPE ELEVATION SHALL BE MIN. OF 2'-0" ABOVE GRADE. PIPING SHALL BE INSTALLED AS TO ELIMINATE ANY UNNECESSARY OFFSETS UP OR DOWN.
4. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
5. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6. ALL PIPE SUPPORT COMPONENTS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
7. THIS CONTRACTOR SHALL VERIFY SIZE AND NUMBER OF PIPES TO BE SUPPORTED BASED ON FINAL LAYOUT.

3 M205 PIPE SUPPORT AT GRADE DETAIL

NOT TO SCALE

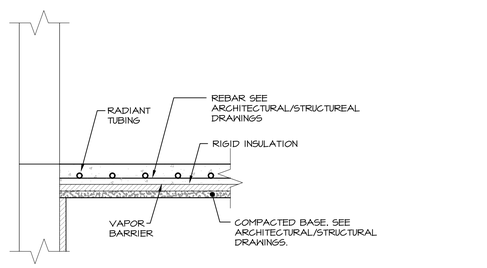


NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL A MULTI-GAS DETECTION CONTROL SYSTEM WITH BUILT-IN CARBON MONOXIDE FUME DETECTION SENSOR, REMOTE DIESEL FUME SENSOR AND MANUAL OVERRIDE TIMER SWITCH, INCLUDING ALL CONDUITS, CONDUCTORS, RELAYS, JUNCTION BOXES, SENSORS, APPURTENANCES AND ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS COMPLETE AND OPERABLE.
2. CONTRACTOR SHALL HIRE MANUFACTURER'S REPRESENTATIVE TO FURNISH COMPLETE EQUIPMENT, WIRING DIAGRAMS WITH SYSTEM OPERATING DESCRIPTION FOR ENGINEER'S APPROVAL. MANUFACTURER'S REPRESENTATIVE SHALL INSPECT SYSTEM INSTALLATION AND TEST ALL SENSORS AND OPERATION OF SYSTEM. SUBMIT REPORT ON FINDINGS TO ENGINEER FOR REVIEW.
3. ELEVATION OF SENSORS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND GENERALLY ACCEPTED INDUSTRY STANDARDS.
4. INSTALL WIRE CAGE PROTECTOR OVER SENSORS AND PANEL.

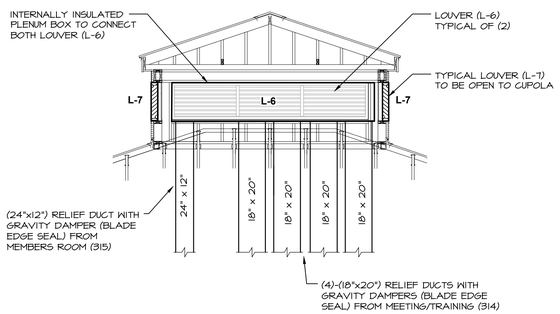
4 M205 CARBON MONOXIDE/DIESEL FUEL DETECTION SYSTEM

NOT TO SCALE



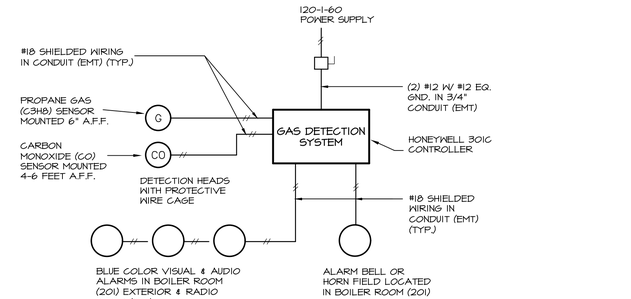
5 M205 RADIANT PIPE SLAB DETAIL

NOT TO SCALE



6 M205 CUPOLA DUCT CONNECTION DETAIL

NOT TO SCALE

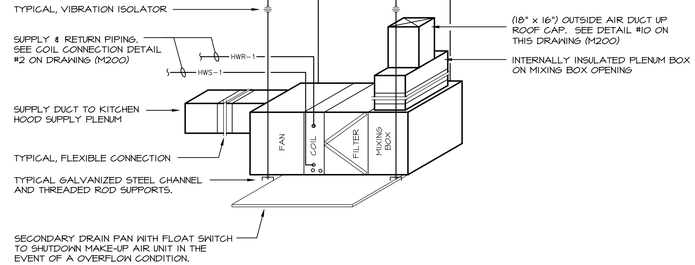


NOTE:

1. SEE HVAC SPECIFICATION SECTION (230993-2.23) GAS DETECTION SYSTEM
2. GAS SENSORS FIELD LOCATED IN MECH. ROOM (201).
3. GAS DETECTION PANEL FIELD LOCATED IN MECH. ROOM (201).

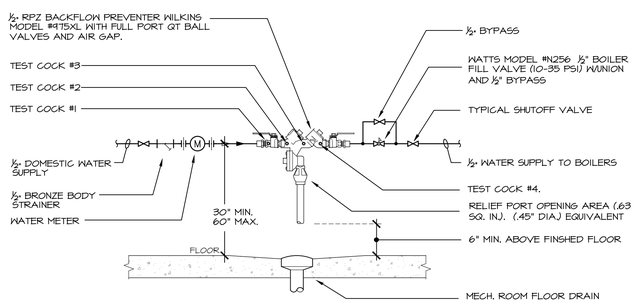
8 M205 GAS DETECTION SYSTEM

NOT TO SCALE



9 M205 MAKE-UP AIR UNIT (MAU-1) DETAIL

NOT TO SCALE



REQUIRED CLEARANCES (RPZ)

1. FRONT OF RPZ (2'-6") MINIMUM
2. BEHIND RPZ (8") MINIMUM
3. DISCHARGE PORT (1'-6") MINIMUM ABOVE FINISHED FLOOR
4. BACKFLOW PREVENTER MINIMUM (2'-6") ABOVE FINISHED FLOOR
5. BACKFLOW PREVENTER MAXIMUM (5'-0") ABOVE FINISHED FLOOR
6. CLEAR SPACE ABOVE BACKFLOW PREVENTER MINIMUM (2'-0")

7 M205 BOILER WATER FEEDER DETAIL

NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE

FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA04011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL: DETAILS

SCALE: AS NOTED
DWG. BY: KG
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M205

HOOD INFORMATION

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM						MUA CFM	AG CFM	HOOD CONSTRUCTION	HOOD CONFIG.	
					TOTAL EXH. CFM	RISER(S) WIDTH	RISER(S) LENG.	RISER(S) HEIGHT	RISER(S) DIA.	RISER(S) CFM	RISER(S) S.P.				END TO END	ROW
1		5424 ND-2-ACPSP-F	9' 6.00"	450 Deg.	2250			4"	16"	2250	-0.788"	1800	448	430 SS Where Exposed	ALONE	ALONE

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	RISER(S) LENG.	RISER(S) DIA.	RISER(S) CFM	RISER(S) S.P.
1		Front	126"	26"	6"	MUA	12"	28"		847	0.256"
						MUA	12"	28"		847	0.256"
						AC			8"	112	0.040"
						AC			8"	112	0.040"
						AC			8"	112	0.040"
						AC			8"	112	0.040"

ELECTRICAL PACKAGES

NO.	TAG	PACKAGE #	LOCATION	SWITCHES LOCATION	SWITCHES QUANTITY	OPTION	FANS CONTROLLED TYPE	?	H.P.	VOLT	FLA
1		SC-311110FP	UTILITY CABINET RIGHT	04 - UTILITY CABINET RIGHT HOOD # 1	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL	Exhaust	3	1.00	208	3.8
							Supply	3	1.5	208	3.4

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S) TYPE	FILTER(S) QTY.	FILTER(S) HEIGHT	FILTER(S) LENGTH	FILTER(S) EFFICIENCY @ 9 MICRONS	LIGHT(S) QTY.	LIGHT(S) TYPE	LIGHT(S) WIRE GUARD	UTILITY CABINET(S) LOCATION	UTILITY CABINET(S) SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WGHT
1		Captrate Solo Filter	7	20"	16"	93% See Filter Spec.	3	L55 Series E26	NO	Right	12"x54"x24"	Ansul R102	3.0	SC-311110FP	1 Light 1 Fan	YES	762 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 18.00" High Front, Left, Right
		BACKSPLASH 80.00" High X 126.00" Long 430 SS Vertical

FIRE SYSTEM INFORMATION

FIRE SYSTEM NO.	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION SYSTEM	INSTALLATION LOCATION ON HOOD
1		Ansul R102	3.0	2	Fire Cabinet Right	Right

EXHAUST FAN INFORMATION

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1		DU180HFA	2250	1.150	1091	1.000	0.6690	3	208	3.8	112	12.9

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - GREASE BOX

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	41 LBS	Curb	26.500"W x 26.500"L x 20.000"H 4.000:12.000 Pitch Vented Hinged

FIRE SUPPRESSION SYSTEM SPECIFICATIONS

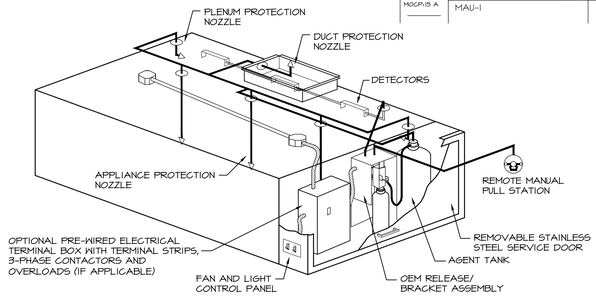
THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

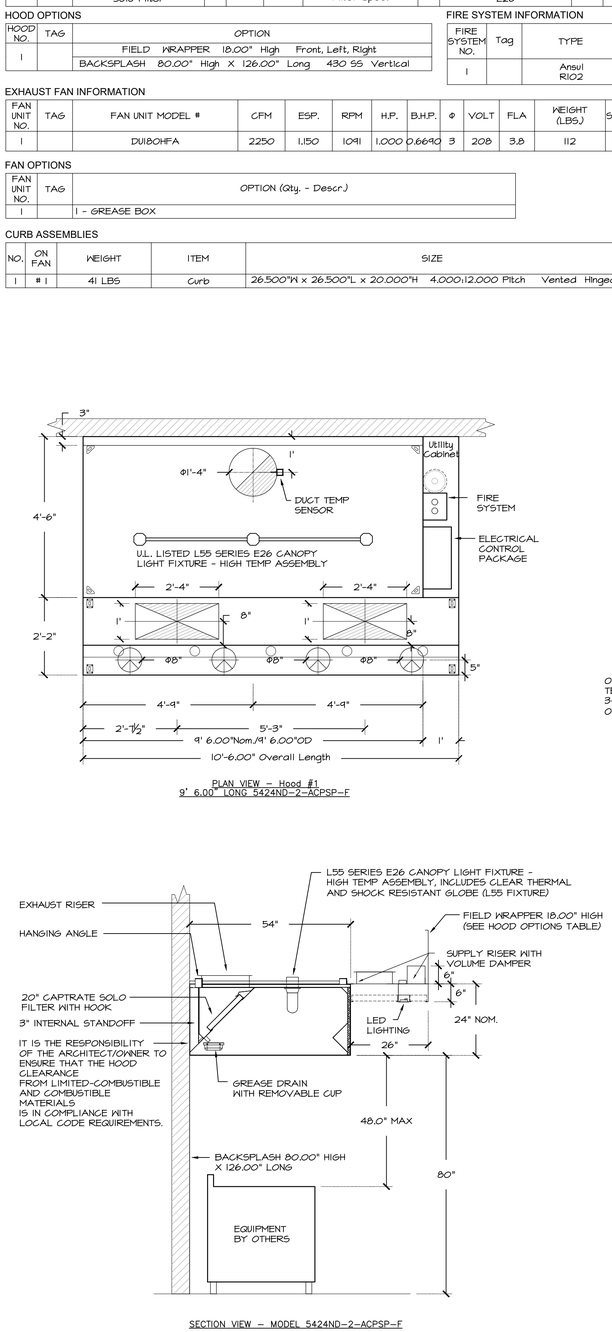
THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.

PLAN VIEW - Hood #1
9' 6.00" LONG 5424ND-2-ACPSP-F

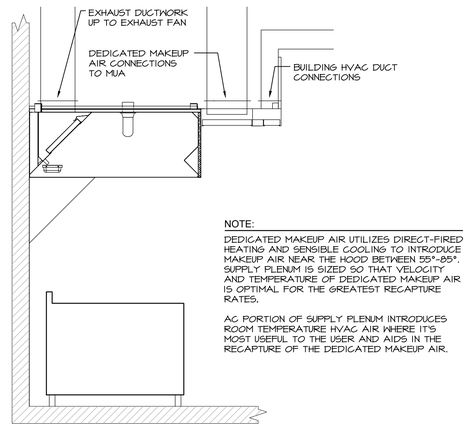


3 / M206 TYPICAL ANSUL R-102 SYSTEM LAYOUT
NOT TO SCALE



SECTION VIEW - MODEL 5424ND-2-ACPSP-F

1 / M206 KITCHEN HOOD DETAIL
NOT TO SCALE

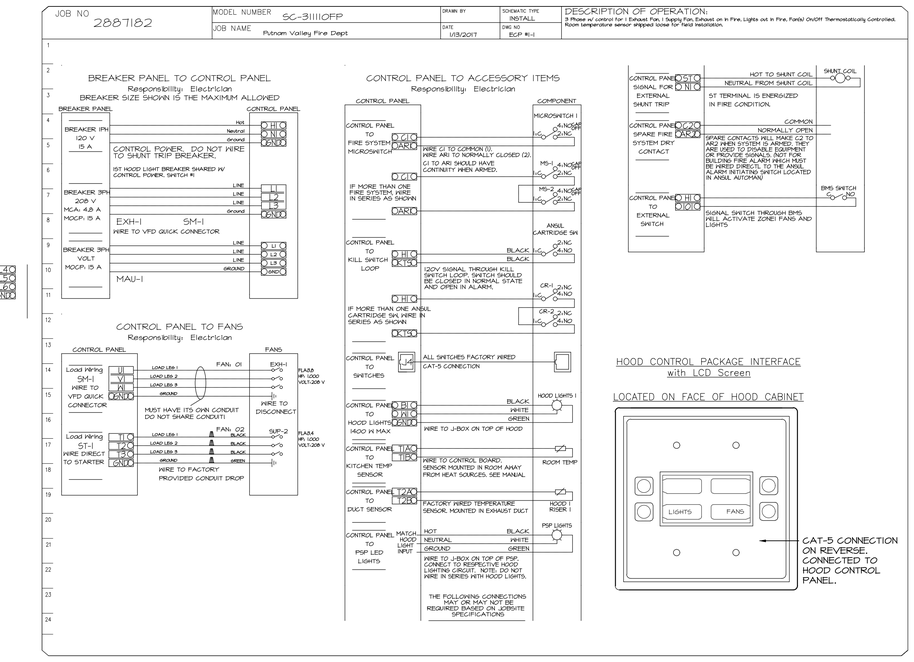


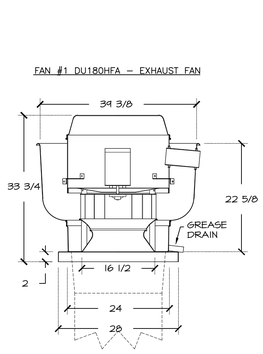
NOTE:

DEDICATED MAKEUP AIR UTILIZES DIRECT-FIRED HEATING AND SENSIBLE COOLING TO INTRODUCE MAKEUP AIR NEAR THE HOOD BETWEEN 55°-85°. SUPPLY PLENUM IS SIZED SO THAT VELOCITY AND TEMPERATURE OF DEDICATED MAKEUP AIR IS OPTIMAL FOR THE GREATEST RECAPTURE RATES.

AG PORTION OF SUPPLY PLENUM INTRODUCES ROOM TEMPERATURE HVAC AIR WHERE IT'S MOST USEFUL TO THE USER AND AIDS IN THE RECAPTURE OF THE DEDICATED MAKEUP AIR.

2 / M206 GENERAL DUCTWORK CONNECTION DETAIL
NOT TO SCALE





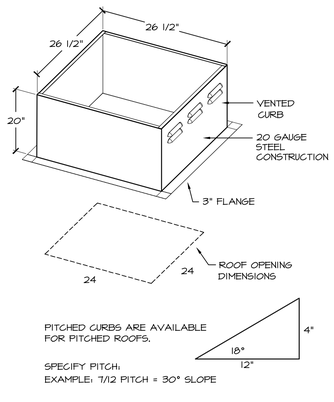
FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C.)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C.) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS
GREASE BOX



4 / M206 EXHAUST FAN DETAIL
NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2650
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
SLINGERLANDS, NY 12159
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW.

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

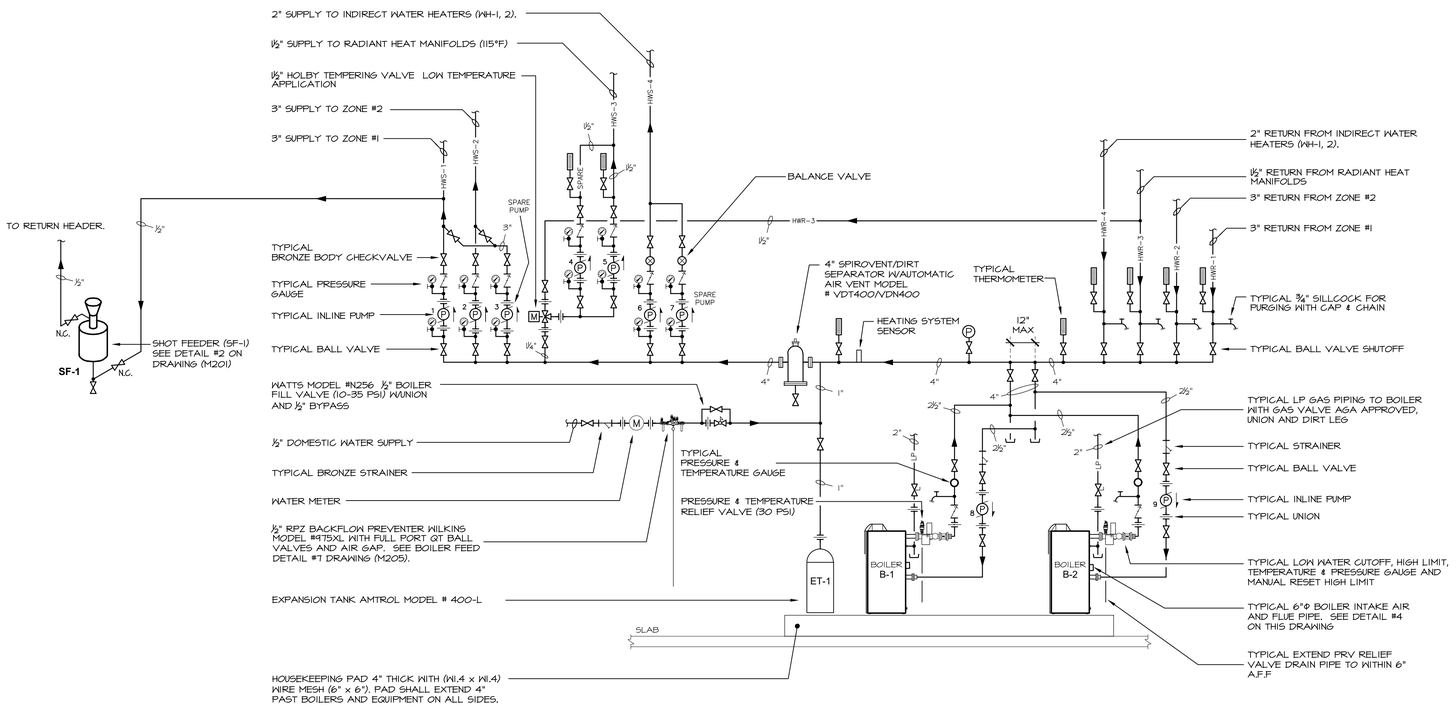
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

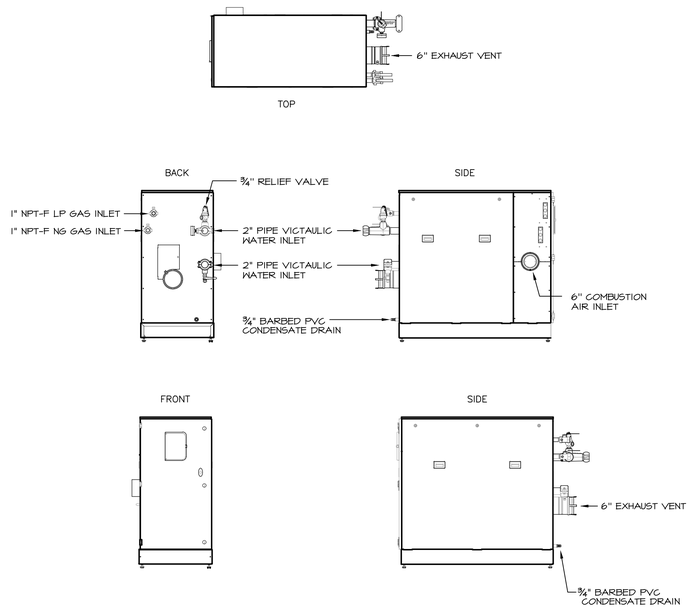
MECHANICAL: DETAILS

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

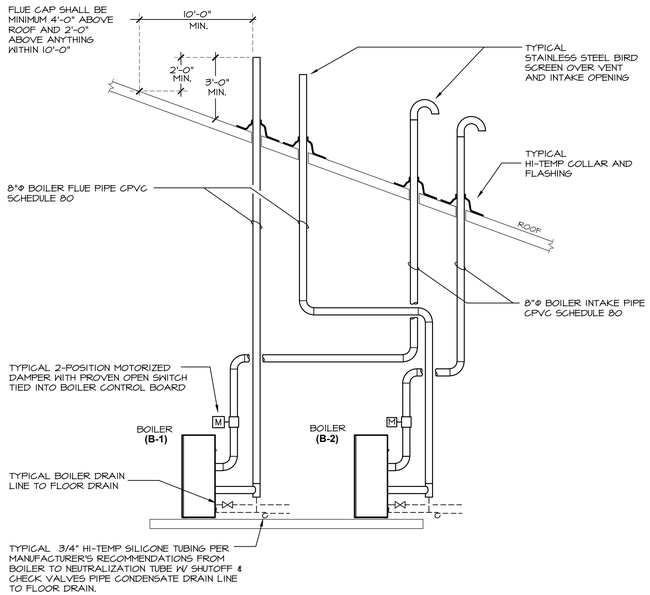
M206



1 M207 BOILER SYSTEM SCHEMATIC
NOT TO SCALE



2 M207 BOILER SCHEMATIC
NOT TO SCALE



NOTES:
1. BOILER INTAKE AIR AND EXHAUST OUTLETS FROM BOILERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, NYS FUEL GAS CODE, ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS.
2. EXACT LOCATION OF WALL AND ROOF PENETRATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.

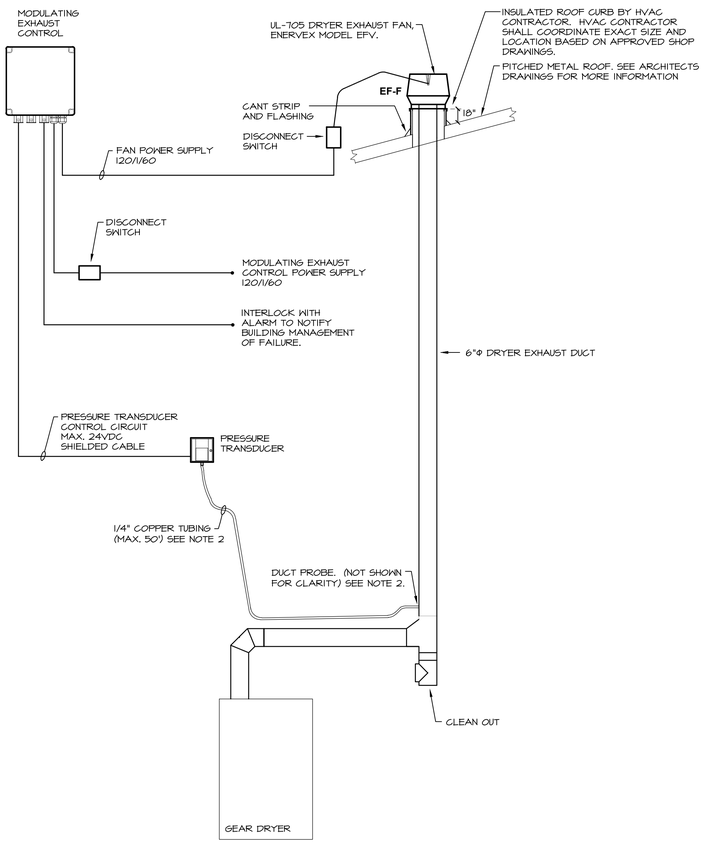
4 M207 BOILER FLUE PIPING DETAIL
NOT TO SCALE

NEW YORK STATE DEPARTMENT OF LABOR - PART 4 - CONSTRUCTION INSTALLATION INSPECTION

4-6.4 CLEARANCE FOR BOILERS INSTALLED AFTER MARCH 31, 1965 IN A SPACE OR ROOM NOT PREVIOUSLY USED TO HOUSE A BOILER.

1. BUILDING WALL OR PARTITION CLEARANCE. THE CLEARANCE BETWEEN ANY COMPONENT ON THE SIDE OR REAR OF A BOILER AND ANY WALL OR PARTITION OF THE BUILDING IN WHICH IT IS INSTALLED SHALL BE NOT LESS THAN 24 INCHES WHERE THE RATED GROSS CAPACITY IS LESS THAN 5,000,000 BTU PER HOUR, WHERE THE RATED GROSS CAPACITY EXCEEDS 5,000,000 BTU PER HOUR, THE CLEARANCE TO ANY NPROTECTED COMBUSTIBLE CONSTRUCTION SHALL BE NOT LESS THAN 36 INCHES.
2. CLEARANCE FROM OTHER BOILERS OR EQUIPMENT. THE CLEARANCE BETWEEN ANY COMPONENT OF THE BOILER ANY OTHER BOILER OR EQUIPMENT SHALL BE NOT LESS THAN 24 INCHES.
3. FRONT OPERATING CLEARANCE. THE CLEARANCE FROM THE FRONT WALL OR HEAD OR HEAT GENERATING APPARATUS OF THE BOILER, WHICHEVER IS CLOSER TO THE BUILDING WALL PARTITION OR OTHER EQUIPMENT, SHALL BE NOT LESS THAN FOUR FEET WHERE THE RATED GROSS CAPACITY IS LESS THAN 5,000,000 BTU PER HOUR, WHERE THE RATED GROSS CAPACITY EXCEEDS 5,000,000 BTU PER HOUR, SUCH CLEARANCE SHALL BE NOT LESS THAN SIX FEET.
4. WORKING PLATFORM -- VERTICAL CLEARANCE. WHEN WORKING PLATFORMS, REQUIRED FOR BOILERS WHERE THE DISTANCE FROM THE FLOOR TO THE TOP OF THE BOILER OR BOILER SETTING EXCEEDS EIGHT FEET, ARE INSTALLED ON TOP OF A BOILER FOR OPERATING OR MAINTENANCE PURPOSES, THE CLEARANCE FROM THE WORKING SURFACE OF SUCH PLATFORM TO THE LOWEST POINT OF ANY OVERHEAD STRUCTURE SHALL BE NOT LESS THAN SEVEN FEET.

NOTES:
1. FURNISH AND INSTALL BOILER APPURTENANCES AS RECOMMENDED BY MANUFACTURER AND SERVICE SILLCOCKS TO FACILITATE BOILER DRAINING AND HYDRONIC SYSTEM PURGING.
2. PROVIDE BOILER SAFETY SHUTDOWN SWITCH AT BOILER ROOM ENTRANCE TO SHUTDOWN ALL GAS FIRED EQUIPMENT UPON ACTIVATION. SEE DETAIL # ON DRAWING (M-).
3. USE BRASS UNION OR BALL VALVE BETWEEN DISSIMILAR METALS SUCH AS, BUT NOT LIMITED TO, STEEL AND COPPER CONNECTIONS.
4. CONTRACTOR SHALL FILL HYDRONIC HEATING SYSTEM WITH DOWFROST PROPYLENE GLYCOL SOLUTION WITH RUST INHIBITORS (35%). SUBMIT CONCENTRATION TEST REPORT FOR ENGINEERS REVIEW.
5. CONTRACTOR SHALL FURNISH AND INSTALL MANUAL RESET HIGH LIMIT AND LOW WATER CUTOFF ON EACH BOILER.
6. CONTRACTOR SHALL HIRE MANUFACTURERS REPRESENTATIVE TO STARTUP BOILERS, SETUP CONTROLS AND PERFORM OPERATION AND COMBUSTION TESTS AS REQUIRED BY MANUFACTURER. SUBMIT REPORT OF STARTUP AND TESTS RESULTS TO ENGINEER FOR APPROVAL.



NOTES:
1. WIRING INFORMATION IS SUITABLE FOR ENERVEX MBE5V200, MBE5V250, OR MBE5V315.
2. THE PRESSURE TRANSDUCER SHALL MEASURE THE PRESSURE DIFFERENTIAL BETWEEN THE DUCT'S PRESSURE AND THE BUILDING'S PRESSURE. THE WIRE LENGTH BETWEEN THE MODULATING EXHAUST CONTROL AND THE PRESSURE TRANSDUCER MAY BE 300FT.
3. FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION OF FAN AND CONTROLS. CONTACT CHIMNEY DESIGN SOLUTIONS AT 800-685-7077.
4. FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION OF CLOTHES DRYERS.
5. FOLLOW DUCT MANUFACTURER'S RECOMMENDATIONS FOR CORRECT INSTALLATION METHODS.
6. FOLLOW ALL PERTINENT NATIONAL, STATE, AND LOCAL CODES FOR PROPER INSTALLATION OF EQUIPMENT AND MATERIALS.

3 M207 GEAR DRYER ROOF MOUNTED EXHAUST SYSTEM DETAIL
NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA04011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL: DETAILS

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M207

MINIMUM HANGER SIZES FOR RECTANGULAR DUCT

MINIMUM HALF OF DUCT PERIMETER	PAIR AT 10Ft SPACING		PAIR AT 8Ft SPACING		PAIR AT 5Ft SPACING		PAIR AT 4Ft SPACING	
	STRAP	ROD	STRAP	ROD	STRAP	ROD	STRAP	ROD
P/2 = 30"	1" x 22ga	¼"	1" x 22ga	¼"	1" x 22ga	¼"	1" x 22ga	¼"
P/2 = 72"	1" x 18ga	⅜"	1" x 20ga	¼"	1" x 22ga	¼"	1" x 22ga	¼"
P/2 = 96"	1" x 16ga	⅜"	1" x 18ga	⅜"	1" x 20ga	⅜"	1" x 22ga	⅜"
P/2 = 120"	**1½" x 16ga**	**½"**	**1" x 16ga**	**⅝"**	**1" x 18ga**	**⅝"**	**1" x 20ga**	**⅝"**
P/2 = 192"	-	-	1" x 16ga	½"	1" x 16ga	⅜"	1" x 18ga	⅜"

WHEN STRAPS ARE LAP JOINED USE THESE MINIMUM FASTENERS:

1" x 18, 20, 22ga - ON ¼" BOLT
1" X 16ga - TWO ¼" Dia.
1" X 16ga - TWO ⅜" Dia.

PLACE FASTENERS IN SERIES, NOT SIDE BY SIDE.

SINGLE HANGER MAXIMUM ALLOWABLE LOAD

STRAP	ROD (Dia.)
1" x 22ga - 260Lbs.	¼" - 270Lbs.
1" x 20ga - 32Lbs.	⅜" - 680Lbs.
1" x 18ga - 420Lbs.	½" - 1250Lbs.
1" x 16ga - 700Lbs.	⅝" - 2000Lbs.
1½" x 16ga - 1100Lbs.	¾" - 3000Lbs.

NOTES:
1. DIMENSIONS OTHER THAN GAUGE ARE IN INCHES.
2. TABLES ALLOW FOR DUCT WEIGHT, 1 LB/SF. INSULATION WEIGHT AND NORMAL REINFORCEMENT AND TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS.
3. STRAPS ARE GALVANIZED STEEL.
4. ALLOWABLE LOADS FOR P/2 ASSUME THAT DUCTS ARE 16 GA. MAXIMUM, EXCEPT WHEN MAXIMUM DUCT DIMENSION (W) IS OVER 60" THEN P/2 MAXIMUM IS 1.25 W.

PIPE HANGER SCHEDULE

PIPE SIZE (INCHES)	MAXIMUM HORIZONTAL SPACING (FEET)				SINGLE STEEL ROD HANGER SIZE (INCHES)		HANGER TYPE STEEL	MAXIMUM VERTICAL SPACING (FEET)			
	COPPER TUBE	CAST IRON	STEEL PIPE	CPVC PIPE	TUBING	PIPING		COPPER TUBE	CAST IRON	STEEL PIPE	CPVC PIPE
½"	6	5	8 (5)	3	¼"	⅜"	BAND	10	15	15	10
¾"	6	5	8 (5)	3	¼"	⅜"	BAND	10	15	15	10
1"	6	5	8 (5)	3	¼"	⅜"	BAND	10	15	15	10
1¼"	6	5	9 (5)	4	¼"	⅜"	CLEVIS	10	15	15	10
1½"	6	5	9 (5)	4	¼"	⅜"	CLEVIS	10	15	15	10
2"	10	5	10 (5)	4	¼"	⅜"	CLEVIS	10	15	15	10
2½"	10	5	12 (5)	4	⅜"	½"	CLEVIS	10	15	15	10
3"	10	5	12 (5)	4	⅜"	½"	CLEVIS	10	15	15	10
4"	10	5	12 (5)	4	½"	⅝"	CLEVIS	10	15	15	10
5"	10	5	12 (5)	4	½"	⅝"	CLEVIS	10	15	15	10
6"	10	5	12 (5)	4	½"	¾"	CLEVIS	10	15	15	10
8"	10	5	12 (5)	4	⅝"	⅞"	CLEVIS	10	15	15	10
10"	10	5	12 (5)	4	⅝"	⅞"	CLEVIS	10	15	15	10
12"	10	5	12 (5)	4	⅝"	⅞"	CLEVIS	10	15	15	10

NOTES:
1. MAXIMUM HORIZONTAL SPACING OF CAST-IRON PIPE HANGERS SHALL BE INCREASED TO 10 FEET WHERE 10 FOOT LENGTHS OF PIPE ARE INSTALLED.
2. INSTALL HANGER OR SUPPORT CLOSE TO THE POINT OF CHANGE OF DIRECTION IN ALL PIPE RUNS.
3. INSTALL ADDITIONAL HANGERS ON SUPPORTS AT CONCENTRATED LOADS.
4. SUPPORT ALL BRANCH PIPING OVER 5'-0" IN LENGTH.
5. ½" GAS PIPING SHALL BE SUPPORTED EVERY 6'-0". ¾" AND 1" GAS PIPING SHALL BE SUPPORTED EVERY 8'-0". 1¼" AND LARGER GAS PIPING SHALL BE SUPPORTED EVERY 10'-0".
6. SUPPORT VERTICAL PIPING AT EVERY FLOOR.

HEATING AND COOLING MINIMUM PIPE INSULATION[a] COMMERCIAL

(THICKNESS IN INCHES)

FLUID	NOMINAL PIPE DIAMETER			
	< 1.5"	1.5" < 4.0"	4.0" to < 8.0"	≤ 8.0"
HOT WATER (141 - 200 °F)	1.5	2.0	2.0	2.0
CHILLED WATER OR REFRIGERANT	1.5	1.5	1.5	1.5
CONDENSATE	1.0	1.0	1.0	1.5

FOR SI:
1 INCH = 25.4mm, BTU PER INCH/H x FT^2 x °F = W PER 25mm/K x M^2

[a] BASED IN INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/H x FT^2 X °F

MINIMUM DUCT INSULATION

COMMERCIAL

ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-12 INSULATION WHEN LOCATED OUTSIDE THE BUILDING ENVELOPE. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-12 INSULATION.

EXCEPTIONS:
1. WHEN LOCATED WITHIN EQUIPMENT.
2. WHEN THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F (8°C).

ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED FABRIC SYSTEMS OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.

NOTE:
DUCT INSULATION, COVERINGS AND LINING MATERIALS AND ADHESIVES SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25, AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50, IN ACCORDANCE WITH 2015 IMC SECTION 604.3.

MINIMUM HANGER SIZES FOR ROUND DUCT

DIAMETER	MAXIMUM SPACING	WIRE DIAMETER	ROD	STRAP
10" DN.	12'	-	¼"	1" x 22ga.
11" - 18"	12'	-	¼"	1" x 22ga.
19" - 24"	12'	-	¼"	1" x 22ga.
25" - 36"	12'	-	⅜"	1" x 22ga.
37" - 50"	12'	-	TWO ⅜"	TWO 1" x 20ga.
51" - 60"	12'	-	TWO ⅜"	TWO 1" x 18ga.
61" - 84"	12'	-	TWO ⅜"	TWO 1" x 16GA.

NOTES:
1. STRAPS AND RODS ARE GALVANIZED STEEL.
2. TABLE ALLOWS FOR CONVENTIONAL WALL THICKNESS, AND JOINT SYSTEMS PLUS ONE LB/SF OF INSULATION WEIGHT. IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES.

GENERAL HVAC NOTES

1. ALL HVAC WORK SHALL BE INSTALLED IN ACCORDANCE WITH 2020 MECHANICAL, FIRE, PLUMBING, FUEL GAS, BUILDING, AND ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE, ALL LOCAL CODES AND GENERALLY ACCEPTED STANDARDS.
2. HVAC CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, PIPING, VALVES, ACCESS DOORS, HANGERS, FITTINGS AND MISCELLANEOUS COMPONENTS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE HVAC SYSTEMS COMPLETE, OPERABLE, AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS.
3. HVAC CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT TO ENGINEER FOR APPROVAL. DEMONSTRATE NEW HVAC SYSTEMS TO SCHOOL AND REVIEW MAINTENANCE PROCEDURES.
4. HVAC CONTRACTOR SHALL SEAL AROUND ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND CEILINGS WITH HILTI INTUMESCENT FIRE STOP MATERIALS TO MAINTAIN FIRE AND SMOKE RATINGS. DUCTS PENETRATING FIRE RATED WALLS, FLOORS AND CEILINGS SHALL BE INSTALLED WITH FIRE DAMPER AND ACCESS DOORS WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT. PROVIDE FIRE STOP SEALANT ON ALL EXISTING PIPING AND DUCTWORK PENETRATING NEW FIRE RATED WALLS CONSTRUCTED AS PART OF THE PROJECT.
5. HVAC CONTRACTOR SHALL NOT DRILL OR CUT ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF ARCHITECT.
6. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
7. HVAC CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (24V) FOR SYSTEMS SHOWN ON HVAC DRAWINGS AND DESCRIBED IN HVAC SPECIFICATIONS, INCLUDING ALL RELAYS, TRANSFORMERS, CONDUIT, JUNCTION BOXES, CONDUCTORS, THERMOSTATS, APPURTENANCES AND ALL NECESSARY EQUIPMENT TO MAKE SYSTEMS COMPLETE AND OPERABLE.
8. HVAC CONTRACTOR SHALL PAY FOR ALL PERMITS AND INSPECTION FEES REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
9. HVAC CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CUTTING, PATCHING AND PAINTING ASSOCIATED WITH HVAC WORK.
10. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SHEET METAL AND AIR CONDITIONING HVAC CONTRACTORS NATIONAL ASSOCIATION (SMACNA) DUCT STANDARDS. PROVIDE RADIUS TURNS OR TURNING VANES ON ALL CHANGES IN DIRECTION IN ACCORDANCE WITH SMACNA STANDARDS.
11. ALL CONTROL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C.) AND ALL LOCAL CODES. ALL CONDUCTORS SHALL BE COPPER WITH THHN INSULATION IN EMT CONDUIT. 120V/1 - MINIMUM CONDUCTOR SIZE #12. 24V - MINIMUM CONDUCTOR SIZE #18. MINIMUM CONDUIT SIZE SHALL BE ¾". CONDUIT INSTALLED OUTDOORS SHALL BE GALVANIZED.
12. UNLESS OTHERWISE NOTED, ALL DUCTWORK SHALL BE FABRICATED WITH MINIMUM 26 GAGE GALVANIZED STEEL INCLUDING ROUND DUCTS.
13. FINAL LOCATIONS OF ALL THERMOSTATS AND SENSORS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION, COORDINATE IN FIELD. THERMOSTATS AND SENSORS SHALL BE LOCATED 4'-0" ABOVE FINISHED FLOOR.
14. HVAC CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ALL VALVES AND DUCT ACCESSORIES CONCEALED IN WALLS/CEILINGS. ACCESS DOORS SHALL HAVE APPROPRIATE FIRE RATING TO MAINTAIN INTEGRITY OF WALL/CEILING.
15. HVAC CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF ALL PIPING IN FINISHED AREAS WITH GENERAL CONTRACTOR TO ENSURE CONCEALMENT OF ALL PIPING IN WALLS, FLOORS AND CEILINGS.
16. HVAC CONTRACTOR SHALL FURNISH AND INSTALL VALVE TAGS, PIPE LABELS, DUCT LABELS AND EQUIPMENT LABELS. LOG ALL TAGS AND LABELS IN A 3-RING BINDER WITH LOCATION, DESCRIPTION AND FUNCTION. SEE SPECIFICATIONS FOR MORE INFORMATION.
17. HVAC CONTRACTOR SHALL PROVIDE ALL AIR AND HYDRONIC BALANCING FOR ALL NEW HVAC SYSTEMS. PROVIDE ALL NECESSARY MOTOR, DRIVE, BELT CHANGES AND ETC. SEE SPECIFICATIONS FOR BALANCE PROCEDURES AND ADDITIONAL REQUIREMENTS. CONTRACTOR SHALL COMFORT BALANCE ALL HVAC SYSTEMS TO THE SATISFACTION OF ENGINEER/ARCHITECT.
18. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUPPLEMENTAL STRUCTURAL STEEL SUPPORT ASSOCIATED WITH NEW HVAC EQUIPMENT HUNG OR SUPPORTED FROM OR ON THE BUILDING STRUCTURE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO STEEL FABRICATION AND INSTALLATION OF EQUIPMENT.
19. HVAC CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS IN RETURN AIR DUCTWORK OR PLENUM UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OR OUTDOOR AIR CONNECTIONS. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONNECTION TO FIRE ALARM SYSTEM SHALL BE BY ELECTRICAL CONTRACTOR. HVAC CONTRACTOR SHALL INSTALL AN ACCESS DOOR IN DUCTWORK FOR EACH SMOKE DETECTOR.
20. HVAC CONTRACTOR SHALL SUBMIT PIPING AND DUCTWORK FULLY COORDINATED SHOP DRAWINGS FOR ENGINEERS REVIEW. SEE GENERAL CONDITIONS FOR NUMBER OF SHOP DRAWINGS.
21. HVAC CONTRACTOR SHALL INSTRUCT FIRE DEPARTMENT AND KEY PERSONNEL ON OPERATION OF ALL HVAC SYSTEMS. SET ALL THERMOSTATS TO TEMPERATURES AND SCHEDULES AS DIRECTED BY FIRE DEPARTMENT.
22. HVAC CONTRACTOR SHALL INCLUDE IN BID ALL MATERIALS, RIGGING AND LABOR REQUIRED FOR THE COMPLETE AND PROPER INSTALLATION OF THE MECHANICAL SYSTEM.
23. HVAC CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND COORDINATE WORK ALL OTHER TRADES.
24. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES.
25. PROVIDE VOLUME DAMPERS ON ALL SUPPLY, RETURN AND EXHAUST BRANCH DUCTWORK, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT.
26. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR. DISCONNECT SWITCHES FURNISHED BY THE MECHANICAL CONTRACTOR FOR HVAC EQUIPMENT SHALL BE HEAVY DUTY TYPE AND SHALL BE NEMA 3R WHEN LOCATED OUTSIDE.
27. CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER AND AGREES TO REPLACE DEFECTIVE WORK (INCLUDING ALL REQUIRED LABOR AND MATERIAL) AT NO ADDITIONAL COST TO OWNER DURING THE GUARANTEE PERIOD.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING START-UP OF ALL NEW EQUIPMENT, CONTROLS, AND ETC. TO ENSURE CORRECT OPERATION OF INSTALLED DEVICES.
29. CONTRACTOR SHALL PROVIDE OWNER WITH CATALOG DATA, OPERATING INSTRUCTIONS, MAINTENANCE INSTRUCTIONS, AND RECORD (AS-BUILT) DRAWINGS OF ALL COMPLETED WORK.
30. ALL NEW HOLES IN WALLS AND FLOORS SHALL BE CORE DRILLED BY THIS CONTRACTOR. PRIOR TO CORE DRILLING FLOORS, RADAR SCAN FLOOR SLABS. USE CAUTION WHEN CORE DRILLING TO AVOID DAMAGE TO EQUIPMENT, SYSTEMS, STRUCTURE AND ETC. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO FIRE DEPARTMENT.

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE

FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA0901

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL:
EQUIPMENT SCHEDULES

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M300

AIR HANDLING UNIT SCHEDULE

DESIGNATION	AHU-A	AHU-B	AHU-C	AHU-D	AHU-E	AHU-F
LOCATION	201	201	207	207	209	209
AREA SERVED	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL NUMBER	40RUAA0T13A5-0A0A0	42BVE121D3L612I2DE	42BVE201D3L62017IE	40RUAA0T13A5-0A0A0	40RUAA25T3A5-0A0A0	42BVE161D3L6161RDE
WEIGHT OF UNIT (POUNDS)	349	233	331	349	978	270
UNIT DIMENSIONS LxWxH (IN.)	44"x28.2"x56.1"	22"x37"x39.38"	24"x48.0"x45.13"	44"x28.2"x56.1"	86.1"x67.1"x50.4"	22"x47"x39.38"
DESIGN DATA:						
SUPPLY AIR (CFM)	2100	1200	2000	2220	7000	1600
OUTDOOR AIR (CFM)	425	200	415	555	2790	240
FILTER DATA:						
TYPE/EFFICIENCY	PLEATED/MERV 8	PLEATED/MERV 8	PLEATED/MERV 8	PLEATED/MERV 8	PLEATED/MERV 8	PLEATED/MERV 8
QUANTITY	4	1	2	4	4	2
SIZE HxWxD (IN.)	16 x 24 x 2	18 ¼ x 33 x 2	20 ¾ x 22 x 2	16 x 24 x 2	16 x 20 x 2 16 x 24 x 2	18 ¼ x 21 ½ x 2
HOT WATER COIL DATA:						
No. OF ROWS	2	2	2	2	2	2
EAT (°F) DB	60.0	60.0	60.0	60.0	60.0	60.0
LAT (°F) DB	116.4	110.4	113.4	116.4	116.1	110.9
TOTAL CAP. (MBH)	158.25	66.68	117.79	158.25	484.72	84.7
EMT/LWT (°F)	180/160	180/126	180/140	180/160	180/160	180/128.1
FLUID FLOW RATE (GPM)	15.8	3.0	6.0	15.8	48.5	3.5
FLUID PD (FT)	3.2	2.79	2.23	3.2	4.3	2.02
EVAPORATOR COIL DATA:						
EAT (°F) DB/WB	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0
TOTAL CAPACITY (MBH)	74.7	36.0	62.8	74.7	250.5	49.86
SUPPLY FAN DATA:						
AIRFLOW VOLUME (CFM)	2100	1200	2000	2220	7000	1600
HP	3.0	3/4	1.5	3.0	7.5	3/4
ESP (IN H_2O)	1.2	0.8	1.2	1.2	1.4	1.4
DISCHARGE LOCATION	TOP	TOP	TOP	TOP	TOP	TOP
VOLTS/Ø/Hz	208/3/60	208/1/60	208/3/60	208/3/60	208/3/60	208/1/60
FLA (AMPS)	10.8	6.6	5.2	10.8	23.5	6.6
MOTOR EFFICIENCY	PREMIUM/VFD	ECM	PREMIUM/VFD	PREMIUM/VFD	PREMIUM/VFD	ECM

NOTES:

1. UNITS BASED ON CARRIER.
2. MECHANICAL CONTRACTOR TO COORDINATE COIL CONNECTION AND ACCESS DOOR SIDE IN FIELD PRIOR TO ORDERING.
3. PROVIDE (1) COMPLETE EXTRA SET OF FILTERS FOR EACH UNIT.
4. REFER TO PLANS AND SECTIONS FOR AIR HANDLING UNIT SECTION ARRANGEMENTS AND DUCTWORK CONNECTION LOCATIONS.
5. ALL FILTER SECTIONS SHALL HAVE MINIHELIC II 0-2" FILTER GAUGES.
6. ALL MOTORS 1 HP AND LARGER SHALL BE PREMIUM EFFICIENCY. FANS PROVIDED WITH VARIABLE FREQUENCY DRIVES WITH DISCONNECT SWITCHES, SHALL HAVE INVERTER RATED PREMIUM EFFICIENCY MOTORS SUITABLE FOR VARIABLE SPEED AND TORQUE APPLICATIONS. TURN DOWN RATIO OF 10:1.
7. AHU-A,C,D,E - FULL ECONOMIZER TEMPERATURE DRY BULB CONTROLLED 0-100% WITH ENTHALPY. ULTRA LOW-LEAKAGE.
8. FREEZE-STAT
9. PROVIDE NEMA 1 DISCONNECT SWITCH FOR AIR HANDLERS
10. PROVIDE MIXING BOXES FOR ALL AIR HANDLERS
11. CO2 SENSOR VENTILATION CONTROL AHU-E
12. AIR HANDLERS (AHU-A,C,D,E) SHALL BE EQUIPPED WITH STAGED AIR VOLUME (SAV) SYSTEM UTILIZING A VARIABLE FREQUENCY DRIVE (VFD) TO AUTOMATICALLY ADJUST THE INDOOR FAN SPEED IN SEQUENCE WITH UNITS STAGED COOLING OPERATION. DURING 1st STAGE OF COOLING OPERATION THE VFD WILL ADJUST THE FAN MOTOR TO PROVIDE 2/3rd OF THE TOTAL CFM ESTABLISHED FOR UNIT. WHEN A CALL FOR THE SECOND STAGE OF COOLING IS REQUIRED, THE VFD WILL ALLOW THE TOTAL CFM FOR THE UNIT ESTABLISHED (100%). DURING THE HEATING MODE THE VFD WILL ALLOW TOTAL DESIGN CFM (100%) OPERATION AND DURING VENTILATION MODE VFD WILL ALLOW OPERATION TO 2/3RD OF TOTAL CFM.
13. 2-SPEED FAN CONTROLLER (VFD) W/2 SPEED VFD DISPLAY KIT FOR INDOOR UNIT.

LOUVER SCHEDULE

DESIGNATION	L-1	L-2	L-3	L-4	L-5	L-6	L-7
MODEL NUMBER	ESD-435	ESD-435	ESD-435	ESD-435	ESD-435	ESD-435	ESD-435
LOCATION	209	201	120	326	308	CUPOLA	CUPOLA
DIMENSIONS LxHxD (IN.)	72"x72"x4"	72"x48"x4"	24"x16"x4"	72"x16"x4"	16"x16"x4"	132"x24"x4"	36"x24"x4"
MIN. FREE AREA (SQ. FT.)	20.79	13.36	1.00	3.17	.62	10.55	2.84
FREE AREA (%)	58	55	38	40	35	48	47
BLADE ANGLE	35	35	35	35	35	35	35
MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM

NOTES:

1. LOUVERS BASED ON GREENHECK.
2. COORDINATE EXACT LOUVER SIZE WITH ARCHITECTURAL PLANS AND WITH WALL OPENINGS IN THE FIELD.
3. ALL LOUVERS SHALL HAVE FACTORY POWDER COAT FINISH, COLOR TO BE SELECTED BY ARCHITECT. SUBMIT COLOR CHART FOR REVIEW.
4. ALL LOUVERS SHALL BE PROVIDED WITH BIRD SCREENS AND EXTENDED SILLS.
5. LOUVERS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
6. LOUVERS SHALL BARE THE AMCA SEAL.

AIR-COOLED CONDENSING UNIT SCHEDULE

DESIGNATION	CC-A	CC-B	CC-C	CC-D	CC-E	CC-F
AREA SERVED	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS	SEE HVAC DWGS
UNIT SERVED	AHU-A	AHU-B	AHU-C	AHU-D	AHU-E	AHU-F
MODEL NUMBER	38AUZD0T4OA5-0A0A0	24ANB136A003	24ANB160A003	38AUZD0T4OA5-0A0A0	38AUDA25A0A5-0A0A0	24ANB148A003
SEER/EER - MAX.	12.0 EER	14.5/12.2	14.0/11.7	12.0 EER	11.0 EER	14.0/12.0
WEIGHT OF UNIT (POUNDS)	389	274	351	389	730	351
CONDENSER DATA:						
AMBIENT TEMPERATURE (°F)	95	95	95	95	95	95
No. OF ROWS/FPI	2/17	1/20	2/20	2/17	2/17	2/20
No. OF FANS	2	1	1	2	4	1
FAN MOTOR HP (EACH)	1/4	1/5	1/4	1/4	1/4	1/4
FAN MOTOR FLA (AMPS EACH)	1.5	.94	1.3	1.5	1.5	1.3
COMPRESSOR DATA:						
REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
COMPRESSOR TYPE	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
REFRIGERATION EFFECT (MBH)	71.0	36.0	60.0	71.0	240.0	48.0
CAPACITY CONTROL	2 STEPS	2 STEPS	2 STEPS	2 STEPS	2 STEPS	2 STEPS
SINGLE POINT POWER CONNECTION ELECTRICAL DATA:						
VOLTS/Ø/Hz	208/3/60	208/1/60	208/1/60	208/3/60	208/3/60	208/1/60
MCA/MOCP (AMPS)	28.0/45	21.8/35	30.1/50	28.0/45	73.7/100	27.8/40

NOTES:

1. UNITS BASED ON CARRIER
2. UNITS SHALL BE COMPLETE WITH THE FOLLOWING:
   - NON-FUSED DISCONNECT SWITCH WITH THROUGH THE DOOR HANDLE
   - FACTORY POWERED, 115 VOLT, GFI, ELECTRICAL OUTLET
   - SUCTION AND DISCHARGE ISOLATION VALVES FOR EACH REFRIGERATION SECTION.
   - 24 VOLT TERMINAL STRIP FOR FIELD SUPPLIED AND INSTALLED CONTROLS.
   - 115 VOLT TRANSFORMER
   - CRANKCASE HEATER
   - LOW AMBIENT COOLING CONTROLS, WINTER START KIT, HARD SHUTOFF TXV, COMPRESSOR START ASSIST - CAPACITOR AND RELAY
   - LOUVERED COIL GUARD, FILTER DRYER
   - LIQUID LINE SOLENOID VALVES
   - REFRIG CIRC/COMPRESSOR STAGING - SINGLE CIRC/DUAL STAGE (SIZE 07 & 08 ONLY)

REGISTER/GRILLE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION	
CD-A	PRICE	SCDA	CEILING DIFFUSER, CONSTRUCTED OF STEEL LAY-IN (24" x 24") COORDINATE WITH CEILING GRID TYPE, ADJUSTABLE AIR PATTERN, ROUND NECK, 4-WAY DEFLECTION, BUTTERFLY DAMPER. WHITE	NECK SIZE — CFM RANGE 6"Ø — 0-100 CFM 8"Ø — 101-240 CFM 10"Ø → 241-300 CFM 12"Ø → 301-400 CFM 14"Ø → 401-500 CFM
CD-B	PRICE	SMDA	CEILING DIFFUSER, CONSTRUCTED OF STEEL, SURFACE MOUNTED 3-WAY DEFLECTION, ADJUSTABLE AIR PATTERN AND OPPOSED BLADE DAMPER. WHITE	NECK SIZE — CFM RANGE 6" x 6" → 0-100 CFM 9" x 9" → 101-200 CFM 12" x 12" → 201-300 CFM
CD-C	PRICE	SMDA	CEILING DIFFUSER, CONSTRUCTED OF STEEL, SURFACE MOUNTED 2-WAY DEFLECTION, ADJUSTABLE AIR PATTERN AND OPPOSED BLADE DAMPER. LAY-IN CEILING MODULE (24" x 24") COORDINATE WITH CEILING GRID TYPE. WHITE	NECK SIZE — CFM RANGE 6" x 6" → 0-100 CFM 9" x 9" → 101-200 CFM 12" x 12" → 201-300 CFM
RG-D	PRICE	80	RETURN REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION, 24" x 12", WHITE.	24" x 12" → 0-400 CFM
RG-E	PRICE	80	RETURN REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION, 24" x 24", WHITE.	24" x 24" → 0-1800 CFM
RG-F	PRICE	80	RETURN REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION, 48" x 24", WHITE.	48" x 24" → 0-3600 CFM
RG-G	PRICE	80	RETURN REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION WITH OPPOSED BLADE DAMPER, 24" x 12", WHITE.	24" x 12" → 0-400 CFM
RG-H	PRICE	80	RETURN REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION WITH OPPOSED BLADE DAMPER, 6" x 6", WHITE.	6" x 6" → 0-100 CFM
SR-I	PRICE	520	SUPPLY REGISTER, CONSTRUCTED OF STEEL, SURFACE MOUNTED DOUBLE DEFLECTION, ¾" BLADE SPACING WITH OPPOSED BLADE DAMPER. (16" x 10"). WHITE	16" x 10" → 0-200 CFM
RG-J	PRICE	80	REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION, 12" x 12", WHITE.	12" x 12" → 0-500 CFM
RG-K	PRICE	80	REGISTER, WALL OR CEILING MOUNTED AS SHOWN, ½" EGG CRATE TYPE ALUMINUM CONSTRUCTION, WITH OPPOSED BLADE DAMPER, 12" x 12", WHITE.	8" x 12" → 0-350 CFM

NOTES:

1. HVAC CONTRACTOR SHALL INSULATE THE BACKS OF ALL DIFFUSERS AND GRILLES WITH 1" THICK FIBERGLASS INSULATION W/VAPOR JACKET TO PREVENT CONDENSATION.

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA04011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL: EQUIPMENT SCHEDULES

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M301

MECHANICAL EQUIPMENT SCHEDULE CON'T

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
P-1, 3	GRUNDFOS	MAGNA3 65-150F	MAGNA SERIES INLINE VARIABLE SPEED PUMP WITH WIRELESS REMOTE CONTROL, FACTORY START-UP, AUTO ADAPT, FLOWADAPT, AND FLOW LIMIT. PROPORTIONAL-PRESSURE CONTROL, CONSTANT PRESSURE CONTROL, AND CONSTANT-TEMPERATURE CONTROL. SEALS COMPATIBLE WITH 30% PROPYLENE GLYCOL. MAX. WORKING PRESSURE 174 PSI, MAX. OPERATING TEMPERATURE 230°F. MOTOR STARTER H-O-A W/OVERLOADS. 93 GPM @ 40 FT. HEAD, POWER INPUT 29 - 1301 WATTS - 208V/1
P-2	GRUNDFOS	MAGNA3 65-150F	MAGNA SERIES INLINE VARIABLE SPEED PUMP WITH WIRELESS REMOTE CONTROL, FACTORY START-UP, AUTO ADAPT, FLOWADAPT, AND FLOW LIMIT. PROPORTIONAL-PRESSURE CONTROL, CONSTANT PRESSURE CONTROL, AND CONSTANT-TEMPERATURE CONTROL. SEALS COMPATIBLE WITH 30% PROPYLENE GLYCOL. MAX. WORKING PRESSURE 174 PSI, MAX. OPERATING TEMPERATURE 230°F. MOTOR STARTER H-O-A W/OVERLOADS. 95 GPM @ 34 FT. HEAD, POWER INPUT 29 - 1301 WATTS - 208V/1
P-4, 5	GRUNDFOS	MAGNA3 40-180F	MAGNA SERIES INLINE VARIABLE SPEED PUMP WITH WIRELESS REMOTE CONTROL, FACTORY START-UP, AUTO ADAPT, FLOWADAPT, AND FLOW LIMIT. PROPORTIONAL-PRESSURE CONTROL, CONSTANT PRESSURE CONTROL, AND CONSTANT-TEMPERATURE CONTROL. SEALS COMPATIBLE WITH 30% PROPYLENE GLYCOL. MAX. WORKING PRESSURE 174 PSI, MAX. OPERATING TEMPERATURE 230°F. MOTOR STARTER H-O-A W/OVERLOADS. 21 GPM @ 43 FT. HEAD, POWER INPUT 16 - 614 WATTS - 120V/1
P-6, 7	GRUNDFOS	UPS 50-60 F	INLINE BOOSTER PUMP, IRON BODY, THREE SPEED MOTOR, MAX. WORKING PRESSURE 145 PSI, MAX. OPERATING TEMPERATURE 230°F, SEALS COMPATIBLE WITH 30% PROPYLENE GLYCOL. SET MOTOR SPEED ON (3)-THREE. 50 GPM @ 12 FT. HEAD, .33 HP, RPM, MOTOR STARTER H-O-A W/OVERLOADS - 120V/1
P-8, 9	GRUNDFOS	UPS 40-160/2	INLINE BOOSTER PUMP, IRON BODY, THREE SPEED MOTOR, MAX. WORKING PRESSURE 145 PSI, MAX. OPERATING TEMPERATURE 230°F, SEALS COMPATIBLE WITH 30% PROPYLENE GLYCOL. SET MOTOR SPEED ON (3)-THREE. 80 GPM @ 22 FT. HEAD, .75 HP, RPM, MOTOR STARTER H-O-A W/OVERLOADS - 120V/1
ET-1	AMTROL	400-L	HYDRONIC EXPANSION TANK, HEAVY DUTY BUTYL BLADDER, TANK VOLUME 106 GALLONS
RC-1	GREENHECK	FGI-	INTAKE ROOF HOOD CONSTRUCTED OF HEAVY GAUGE ALUMINUM THROAT AREA (3.75 SQFT). THROAT WIDTH (18"W x 30"L) 1780 CFM @.03"W.C. WITH 18" HIGH INSULATED SLOPED ROOF CURB. COLOR AS DIRECTED BY ARCHITECT.
T N/C	WHITE RODGERS	IF95-0680	PROGRAMMABLE MULTI-STAGE THERMOSTAT 7-DAY, HEAT/COOL WITH ON/OFF/AUTO FAN SWITCH, 7-DAY PROGRAMMABLE WITH SET BACK CAPABILITIES, REMOTE SENSING, PROGRAMMABLE FAN, OUTDOOR DAMPER CONTROL. LOW VOLTAGE (24V). WITH CLEAR LOCKING COVER UNLESS OTHERWISE NOTED.
S		F145-1328	REMOTE SENSOR WITH WIRE CAGE PROTECTOR
T L	WHITE RODGERS	IF80-361	PROGRAMMABLE SINGLE-STAGE THERMOSTAT, HEAT/COOL WITH ON/OFF/AUTO FAN SWITCH, 5-1-1 DAY, PROGRAMMABLE WITH SET BACK CAPABILITIES, LOW VOLTAGE (24V). WITH CLEAR LOCKING COVER UNLESS OTHERWISE NOTED.

BOILER SCHEDULE

DESIGNATION	B-1	B-2
LOCATION	BOILER ROOM	BOILER ROOM
SERVICE	HOT WATER	HOT WATER
MANUFACTURER	HARSCO P-K SONIC	HARSCO P-K SONIC
MODEL NUMBER	SC-1000	SC-1000
OPERATING WEIGHT (LBS)	810	810
WATER CONTENT	10.0 GAL	10.0 GAL
GROSS OUTPUT (MBH)	923	923
FUEL SOURCE	PROPANE	PROPANE
INPUT (MBH)	1000	1000
BOILER HP	27.5	27.5
MIN./MAX. INLET GAS PRESSURE (IN W.C.)	7/14	7/14
HEATED WET SURFACE AREA (SQ. FT.)	87	87
LWT/EWT (°F)	180/160	180/160
FLOW RATE (GPM)	80	80
WATER P.D. (FT.)	22.0	22.0
COMBUSTION EFFICIENCY	92.3%	92.3%
BOILER DESIGN PRESSURE (PSI)	80	80
FIRESIDE SURFACE AREA (SQ. FT)	17.2	17.2
ELECTRICAL REQUIREMENTS		
VOLTAGE/ Φ / Hz.	120 / 1 / 60	120 / 1 / 60
TOTAL OPERATING AMPS	10 AMPS	10 AMPS

NOTES:

1. ASME CODE, SECTION IV, MAX PRESSURE= 125 PSIG, MAX TEMP 220°F.
2. ASME CSD-1 BOILER CONTROLS.
3. FULL INDEPENDENT CAST SECTIONAL HEAT EXCHANGER.
4. FULL MODULATION, 5:1 TURNDOWN WITH EXCESS AIR NO HIGHER THAN 30% ACROSS THE FIRING RANGE.
5. VARIABLE SPEED COMBUSTION AIR BLOWER.
6. COMBUSTION EFFICIENCY TO BE CSA CERTIFIED BASED ON OPERATING CONDITIONS FOR TESTING UNDER ANSI Z21.13/CSA4.9.
7. PROVIDE NURO TOUCH SCREEN CONTROL SYSTEM FOR EACH BOILER.
8. PROVIDE MODBUS OR BACNET MSTP (MASTER SLAVE TOKEN PASSING) GATEWAY/INTERFACE AND FULL INTEGRATION OF ALL BOILER CONTROL AND ALARM POINTS TO THE BUILDING MANAGEMENT SYSTEM.
9. PROVIDE CONDENSATE TRAP AND ACID NEUTRALIZATION SYSTEM.
10. BOILERS FURNISHED FOR PROPANE. ALL GAS TRAINS AND CONTROLS FURNISHED WITH BOILERS ARE TO BE VENTLESS.
11. BOILERS SHALL BE FURNISHED WITH ADAPTORS FOR CPVC VENTING.
12. ASME LABELED

MECHANICAL EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
CD	———	———	CONDENSATE DRAIN PIPING. SCHEDULE 40 PVC IN MECHANICAL ROOM. CONDENSATE PIPING RUN IN RETURN AIR PLENUM SPACE COPPER TYPE "M" WITH ½" FIBERGLASS INSULATION WITH VAPOR PROOF JACKET. TAPED JOINTS AND PVC FITTING COVERS.
HWS / HWR	———	———	HYDRONIC PIPING, COPPER TYPE "L" UP TO 2". ABOVE 2" USE SCHEDULE 40 STEEL WITH SCREWED JOINTS. BOILER HEADER SHALL BE PIPED WITH SCHEDULE 40 STEEL. INSULATE WITH FIBERGLASS PIPE INSULATION WITH VAPOR PROOF JACKET, TAPED JOINTS AND PVC FITTING COVERS. EXPOSED PIPING SHALL BE COVERED WITH PVC PIPE COVER AND PAINTED. SEE THIS DRAWING FOR INSULATION THICKNESS SCHEDULE.
ULP	———	———	UNDERGROUND LIQUID PETROLEUM "LP" GAS PIPING SCHEDULE 40 BLACK STEEL WITH WELDED JOINTS, POLYETHYLENE JACKET AND DOUBLE LAYER HALF LAPPED 10 MIL POLYETHYLENE TAPE OR PE PIPE ASTM D 2683, SOCKET- FUSION TYPE, BUTT-FUSION TYPE WITH DIMENSIONS MATCHING PE PIPE. COPPER TUBE TYPE "K" DRAWN/ANNEALED WITH PROTECTIVE COATING EXTRUDED PE ASTM B88
LP	———	———	ABOVEGROUND LIQUID PETROLEUM "LP" GAS PIPING, SCHEDULE 40 STEEL WITH SCREWED JOINTS UP TO 3" DIAMETER. WELDED JOINTS ON ALL PIPE SIZES ABOVE 3" DIAMETER.
REF	———	———	REFRIGERANT PIPING SHALL BE COPPER TUBING TYPE ACR HARD DRAWN. WROUGHT COPPER FITTINGS, SILVER BRAZE JOINTS. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS BASED ON ELEVATION AND LENGTH. INSULATE SUCTION LINE WITH 1 ½" ELASTROMETRIC CELLULAR FOAM. CONCEAL REFRIGERATION PIPING IN EXTERIOR WALL PARTITION AND ABOVE CEILING.
			GAS VALVE FULL PORT, AGA APPROVED.
	NIBCO	———	BALL VALVE, BRONZE BODY, FULL PORT.
	NIBCO	———	CHECK VALVE, BRONZE BODY SWING.
M	———	———	MOTORIZED DAMPER, SEE SPECIFICATION SECTION 23 33 00 AIR DUCT ACCESSORIES & 23 09 00 INSTRUMENTATION & CONTROL.
FD	———	———	FIRE DAMPER
	———	———	GAS VALVE FULL PORT, AGA APPROVED.
	———	———	TRAP.
	———	———	TURNING VALVES.
	———	———	DUCTWORK, GALVANIZED STEEL, THICKNESS PER SMACNA STANDARDS. MINIMUM 26 GAUGE
	———	———	VOLUME DAMPER, SEE SPECIFICATION SECTION 23 33 00 AIR DUCT ACCESSORIES & 23 09 00 INSTRUMENTATION & CONTROL.
	FLEXMASTER USA, INC.	TYPE 4M	FLEXIBLE DUCTWORK, MECHANICAL LOCK HELIX, FIBERGLASS INSULATION, FIRE RETARDANT ALUMINUM OUTER JACKET, UL 181 CLASS 1 AIR DUCT. MAXIMUM LENGTH (6'-0")
RH-1	FRIGIDAIRE	FHWC3040MS	RANGE HOOD UNDER-COUNTER STAINLESS STEEL FINISH, BACKDRAFT DAMPER, 7"Φ EXHAUST DUCT CONNECTION - 300 CFM, LAMPS: (2) HALOGEN 50 WATT - 120V/1
AH-G, H	CARRIER	38MAQB12-3	INDOOR DUCTLESS SPLIT HEAT PUMP UNIT, WALL MOUNTED, FIELD LOCATED WIRED REMOTE CONTROLLER, CONDENSATE PUMP, COOLING CAPACITY MAX. 12,000 BTUH, MIN. 4,000 BTUH. HEATING CAPACITY 13,500 BTUH @ 47 °F DAT. SEER 21.5, HSPF 10.0 - 208/230V, 1Φ
HP-G, H	CARRIER	40MAQB12-3	OUTDOOR AIR COOLED HEAT PUMP CONDENSING UNIT, R-410A, COOLING 4,000 BTUH MIN., 12,000 BTUH MAX., HEATING 5,000 BTUH MIN, 13,000 BTUH MAX @ 47°F. INVERTER DRIVEN COMPRESSOR, EXPANSION VALVE, DISCONNECT SWITCH, INDOOR UNIT POWERED BY 3 WIRES FROM OUTDOOR UNIT - SEER 21.5, HSPF 10.0. - MCA=15A, MOCP=15A, 208/230V, 1Φ
UH-1	BEACON MORRIS	HB-204	HYDRONIC UNIT HEATER, HEAT OUTPUT 126,920 BTU/HR @ 180°F E.W.T. 14.9 GPM, 2900 CFM WITH DISCONNECT SWITCH, AQUASTAT FAN START, ¼ HP - 120V/1
UH-2	BEACON MORRIS	HB-24	HORIZONTAL UNIT HEATER, HOT WATER. OUTPUT 12,100 BTU/HR @ 180°F E.W.T., 1.8 GPM, 380 CFM, WITH DISCONNECT SWITCH, AQUASTAT FAN START, 120V/1.
UH-3	BEACON MORRIS	HB-60	HORIZONTAL UNIT HEATER, HOT WATER. OUTPUT 33,875 BTU/HR @ 180°F E.W.T., 4.4 GPM, 900 CFM, WITH DISCONNECT SWITCH, AQUASTAT FAN START, 120V/1.
CH-1	BEACON MORRIS	RC-1200-03	CABINET HEATER RECESSED CEILING MOUNTED, WITH WALL SEAL FRAME. AQUASTAT FAN START, TAMPER PROOF FASTENERS AND CONTROLS. HEATING HIGH CAPACITY COIL 25,715 BTU/HR @ 180°F E.W.T. - 2.0 GPM - 330 CFM - 120V/1.
CH-2	BEACON MORRIS	F-1020-03	CABINET HEATER FLOOR MOUNTED WITH LOUVERED INLET GRILLE, DISCONNECT SWITCH, AQUASTAT FAN START, TAMPER PROOF FASTENERS AND CONTROLS. HEATING HIGH CAPACITY COIL 25,715 BTU/HR @ 180°F E.W.T. - 2.0 GPM - 330 CFM - 120V/1.
CH-3	BEACON MORRIS	RW-1020-03	CABINET HEATER RECESSED WALL MOUNTED WITH DISCONNECT SWITCH, WALL SEAL, AQUASTAT FAN START, TAMPER PROOF FASTENERS AND CONTROLS. HEATING HIGH CAPACITY COIL 25,715 BTU/HR @ 180°F E.W.T. - 2.0 GPM - 330 CFM - 120V/1.
	SLANT/FIN	JR-10	BASEBOARD RADIATION J-SERIES SLOPE TOP, COPPER (C-340) ELEMENT AND 16 GAUGE FRONT COVER. 1,210 BTU/HR PER FOOT @ 180°F EWT. INCLUDING ALL END CAPS, SPACERS, SPLICE PLATES, VALVE COVERS, INSIDE & OUTSIDE CORNERS, WALL BRACKETS/HANGERS, E.T.C. COLOR AS DIRECTED BY ARCHITECT.
A	SLANT/FIN	EM-12	BASEBOARD RADIATION TWO-TIER COPPER (C-340) ELEMENT AND 16 GAUGE EM COVER GALVANIZED STEEL INCLUDING WALL BRACKETS/HANGERS. 2,014 BTU/HR PER FOOT @ 180°F EWT.
MAU-1	CARRIER	38LG03MBF---ALF-A1	HORIZONTAL CENTRAL STATION AIR HANDLER, HYDRONIC HEATING MEDIUM COIL SECTION (2.7 SQFT 2 ROW 11 FPI HALF CIRCUIT) 159,260 BTU/HR @ 17 GPM @ 180°F E.W.T. 35% PROPYLENE GLYCOL. WITH LG HORIZONTAL FAN ONLY SECTION, COMBO FILTER MIXING BOX (TOP & REAR) 2" PLEATED FILTERS MERV 8 (TYPE 3), ADJUSTABLE VARIABLE PITCH PULLEY, VARIABLE FREQUENCY DRIVE WITH OVERLOADS, DISCONNECT SWITCH. 1800 CFM @ .5" W.C. EXT. FAN MOTOR 1.5 HP INVERTER RATED PREMIUM HIGH EFFICIENCY MOTOR SUITABLE FOR VARIABLE SPEED AND TORQUE APPLICATIONS. TURN DOWN RATIO OF 10:1 - 208V/3.
ERU-1	RENEWAIRE	EV450	ENERGY RECOVERY UNIT, 375 CFM @ .84" W.C. TOTAL EFF % WINTER/SUMMER (%/%) WITH TWO POSITION DAMPER MOTORIZED DAMPERS ON INTAKE AND EXHAUST AIR DUCT, SOLID STATE SPEED CONTROLLER MOUNTED NEAR UNIT. (2) - .6 HP ECM MOTORS - 120V/1
EF-A	GREENHECK	CUBE-180-VGD-15	CENTRIFUGAL SIDEWALL MOUNTED EXHAUSTER, HOUSING CONSTRUCTED OF SPUN ALUMINUM, 24" HIGH ROOF CURB, HINGE BRACKET, HINGE LATCH. BELT DRIVE, ADJUSTABLE PULLEY, TWO-POSITION INSULATED DAMPER W/ACTUATOR, VARI-GREEN REMOTE DIAL FOR INDOOR WALL MOUNTING, INTERNAL WIRING, DISCONNECT SWITCH, VARI-GREEN DRIVE. 4,660 CFM @ .375" W.C. - PREMIUM EFFICIENCY MOTOR SUITABLE FOR VARIABLE SPEED AND TORQUE APPLICATIONS 1 ½ HP - 208V/3.
EF-B	GREENHECK	SQ-90-VG	INLINE CABINET EXHAUST FAN, BACKDRAFT DAMPER, VARI-GREEN REMOTE DIAL MOUNTED ON FAN, VARI-GREEN TRANSFORMER FIELD MOUNTED AND WIRED, DISCONNECT SWITCH, BACKDRAFT DAMPER, MOTOR COVER, ISOLATORS & BRACKETS & SPRING HANGING KIT, FLEXIBLE DUCT CONNECTORS, 300 CFM @ .375" W.C., ½ HP - 120V/1
EF-C	GREENHECK	SQ-90-VG	INLINE CABINET EXHAUST FAN, VARI-GREEN REMOTE DIAL FIELD MOUNTED IN SPACE FOR OCCUPANT USE. EXACT LOCATION AS APPROVED BY ARCHITECT, VARI-GREEN TRANSFORMER FIELD MOUNTED AND WIRED, DISCONNECT SWITCH, BACKDRAFT DAMPER, MOTOR COVER, ISOLATORS & BRACKETS & SPRING HANGING KIT, FLEXIBLE DUCT CONNECTORS, 300 CFM @ .375" W.C., ½ HP - 120V/1
EF-D	GREENHECK	SQ-75-VG	INLINE CABINET EXHAUST FAN, VARI-GREEN REMOTE DIAL MOUNTED ON FAN, VARI-GREEN TRANSFORMER FIELD MOUNTED AND WIRED, DISCONNECT SWITCH, BACKDRAFT DAMPER, MOTOR COVER, ISOLATORS & BRACKETS & SPRING HANGING KIT, FLEXIBLE DUCT CONNECTORS, 150 CFM @ .375" W.C., ½ HP - 120V/1
EF-E	GREENHECK	SQ-75-VG	INLINE CABINET EXHAUST FAN, VARI-GREEN REMOTE DIAL FIELD MOUNTED IN SPACE FOR OCCUPANT USE. EXACT LOCATION AS APPROVED BY ARCHITECT, VARI-GREEN TRANSFORMER FIELD MOUNTED AND WIRED, DISCONNECT SWITCH, BACKDRAFT DAMPER, MOTOR COVER, ISOLATORS & BRACKETS & SPRING HANGING KIT, FLEXIBLE DUCT CONNECTORS, 150 CFM @ .375" W.C., ½ HP - 120V/1
EF-F	ENERVEX	MBESV250	DRYER BOOSTER EXHAUST FAN SYSTEM WITH PRESSURE CONTROLLER, PRESSURE TRANSDUCER, DUCT PROBE AND EXHAUST FAN. CURRENT SENSING RELAY SHALL ACTIVATE EXHAUST FAN, PRESSURE CONTROLLER SHALL MAINTAIN A CONSTANT PRESSURE INCREASING/DECREASING FAN SPEED, DISCONNECT SWITCH, 300 CFM @ .734" W.C., ½ HP (TEFC) INVERTER DUTY MOTOR - 120V/1
EF-G	T.JERNLUND	LB2	DRYER BOOSTER EXHAUST FAN SYSTEM AUTOMATICALLY ACTIVATES BOOSTER FAN BASED ON DRYER OPERATION. LED INDICATOR PANEL MOUNTED NEAR DRYER, CONTROLLER MONITORS PRESSURE AND TEMPERATURE IN DUCT TO OPERATE BOOSTER FAN IN SYNC WITH DRYER. 160 CFM - MOTOR 50 WATT - 120V/1
		LB4	4" SECONDARY DRYER LINT TRAP

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE

FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

MECHANICAL: EQUIPMENT SCHEDULES

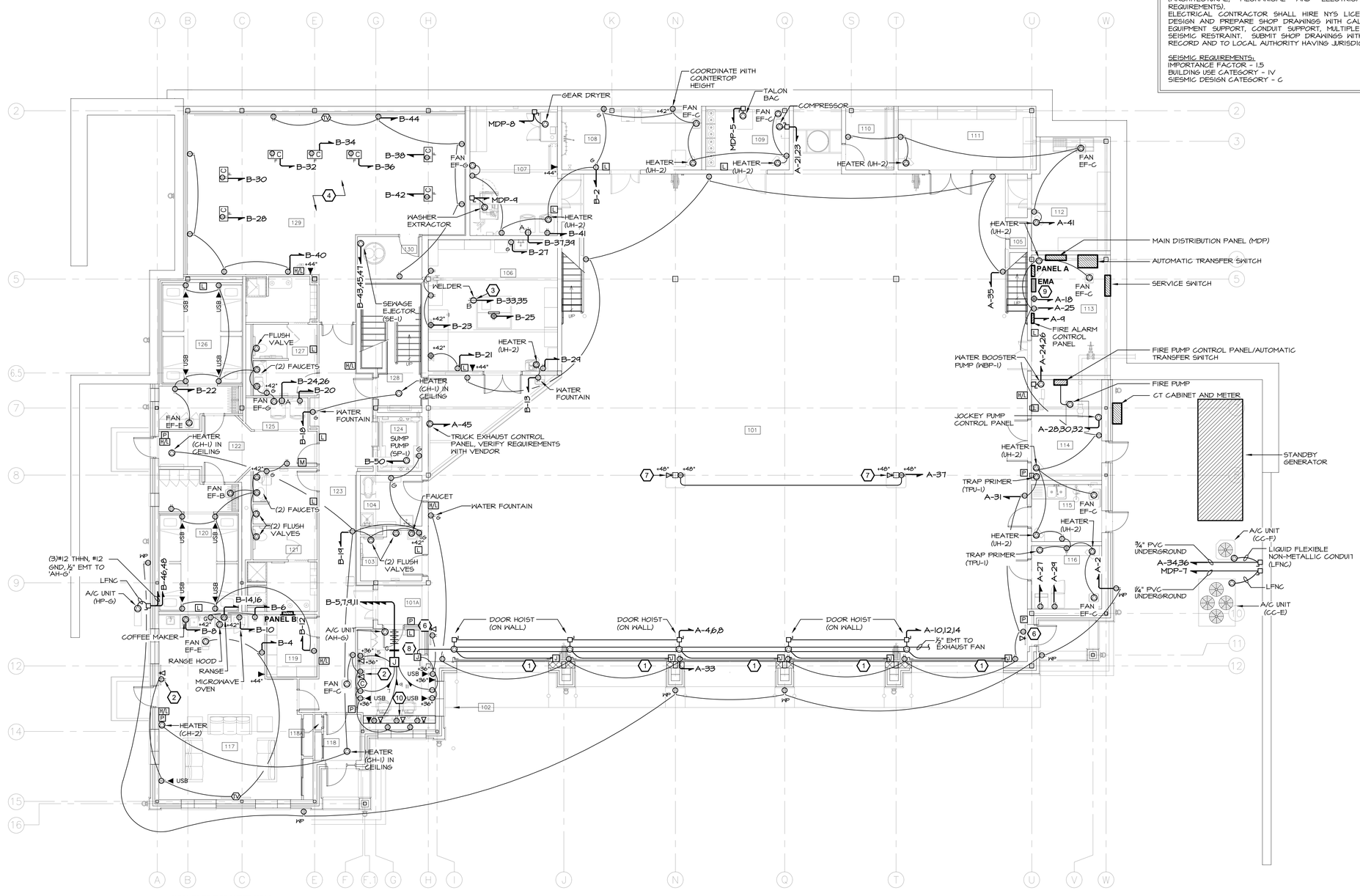
SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

M302

SEISMIC DESIGN FOR ELECTRICAL EQUIPMENT

THE ELECTRICAL SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
ELECTRICAL CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH ELECTRICAL EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE CONDUIT SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
IMPORTANCE FACTOR = 1.5
BUILDING USE CATEGORY = IV
SIESMIC DESIGN CATEGORY = C



KEYED NOTES

(APPLIES TO THIS SHEET ONLY)

1. PROVIDE 4"x4" BOX AT 48" AFF. EXTEND ½" EMT TO DOOR HOIST. REFER TO 3/E300 FOR CONTROLS SCHEMATIC. CONTROLS AND CONTROL WIRING SHALL BE BY DOOR VENDOR. COORDINATE FINAL WIRING WITH VENDOR.
2. LOCATION OF 'FIRST-IN MONITOR'. PROVIDE (1) DUPLEX RECEPTACLE AND (1) DATA OUTLET. COORDINATE INSTALLATION HEIGHT WITH OWNER IN FIELD.
3. VERIFY EXACT RECEPTACLE REQUIRED FOR EQUIPMENT IN FIELD.
4. VERIFY EXERCISE EQUIPMENT LAYOUT WITH OWNER AND ADJUST FLOOR BOX LAYOUT ACCORDINGLY.
5. NOT USED
6. LOCATION OF 'FIRST-IN MONITOR'. EC SHALL PROVIDE (1) DUPLEX RECEPTACLE AND (1) DATA OUTLET WITH BLANK COVER AT 11'-2" (TO CENTER OF BOX) AFF. VERIFY RECEPTACLE AND DATA INSTALLATION HEIGHT WITH OWNER IN FIELD.
7. PROVIDE 2"x4"x2" OUTLET BOX WITH ¾" EMT AND BUSHING UP COLUMN TO CEILING HEIGHT. EC SHALL EXTEND (1) CAT 6 CABLE HOMERUN TO ROOM 203. REFER TO ARCHITECT'S DRAWINGS.
8. RECESSED 12"x18"x4" ALUMINUM BOX FOR OVERHEAD DOOR MASTER CONTROL PANEL PROVIDED AND INSTALLED BY DOOR VENDOR. PROVIDE 120V POWER TO BOX.
9. RECEPTACLE FOR COMMUNICATIONS SERVICE EQUIPMENT. SERVICES SHALL BE TERMINATED AT THIS LOCATION BY OTHERS AND THEN EXTENDED IN 2" EMT TO ROOM 203 (HEAD END). COORDINATE WITH OWNER.
10. EC SHALL PROVIDE LEGRAND AL5200 SERIES WIREMOLD RACEWAY OR SIMILAR ON BACK WALL OF RADIO ROOM CONSOLE. WIREMOLD SHALL CONTAIN (2) #12 THHN, AND #12 GROUND FOR (1) 20 AMPERE CIRCUIT, AS WELL AS (3) DATA OUTLETS, (1) TELEPHONE OUTLET AND POWER/DATA DIVIDER. VERIFY LOCATION WITH OWNER IN FIELD.

1 / E100 — 1st FLOOR PLAN
SCALE: ⅛" = 1'-0"

CALLED NORTH
NORTH

NOTES:
1. ELECTRICAL CONTRACTOR SHALL VERIFY ALL POWERED EQUIPMENT ELECTRICAL SPECIFICATIONS AND LOCATIONS IN FIELD AND CONSULT ENGINEER ON ANY CHANGES FROM PLANS.

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ELECTRICAL: 1st FLOOR PLAN

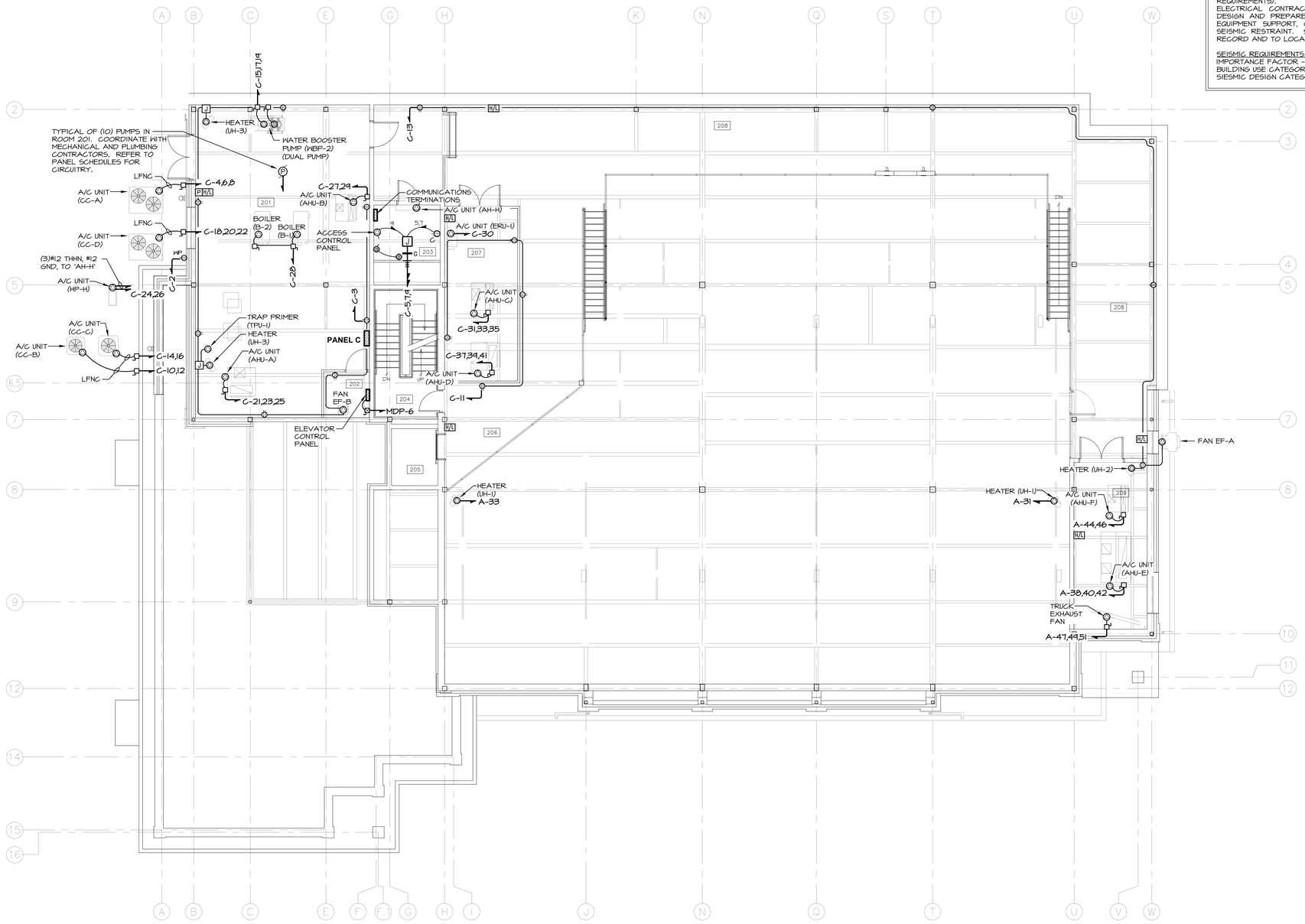
SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

E100

SEISMIC DESIGN FOR ELECTRICAL EQUIPMENT

THE ELECTRICAL SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
ELECTRICAL CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH ELECTRICAL EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE CONDUIT SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
IMPORTANCE FACTOR = 1.5
BUILDING USE CATEGORY = IV
SIESMIC DESIGN CATEGORY = C



1 E101 — 2nd FLOOR PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

NOTES:
1. ELECTRICAL CONTRACTOR SHALL VERIFY ALL POWERED EQUIPMENT ELECTRICAL SPECIFICATIONS AND LOCATION IN FIELD AND CONSULT ENGINEER ON ANY CHANGES FROM PLANS.

2nd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	206	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MECHANICAL 2
205	ELEVATOR		

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA09011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ELECTRICAL:
2nd FLOOR PLAN

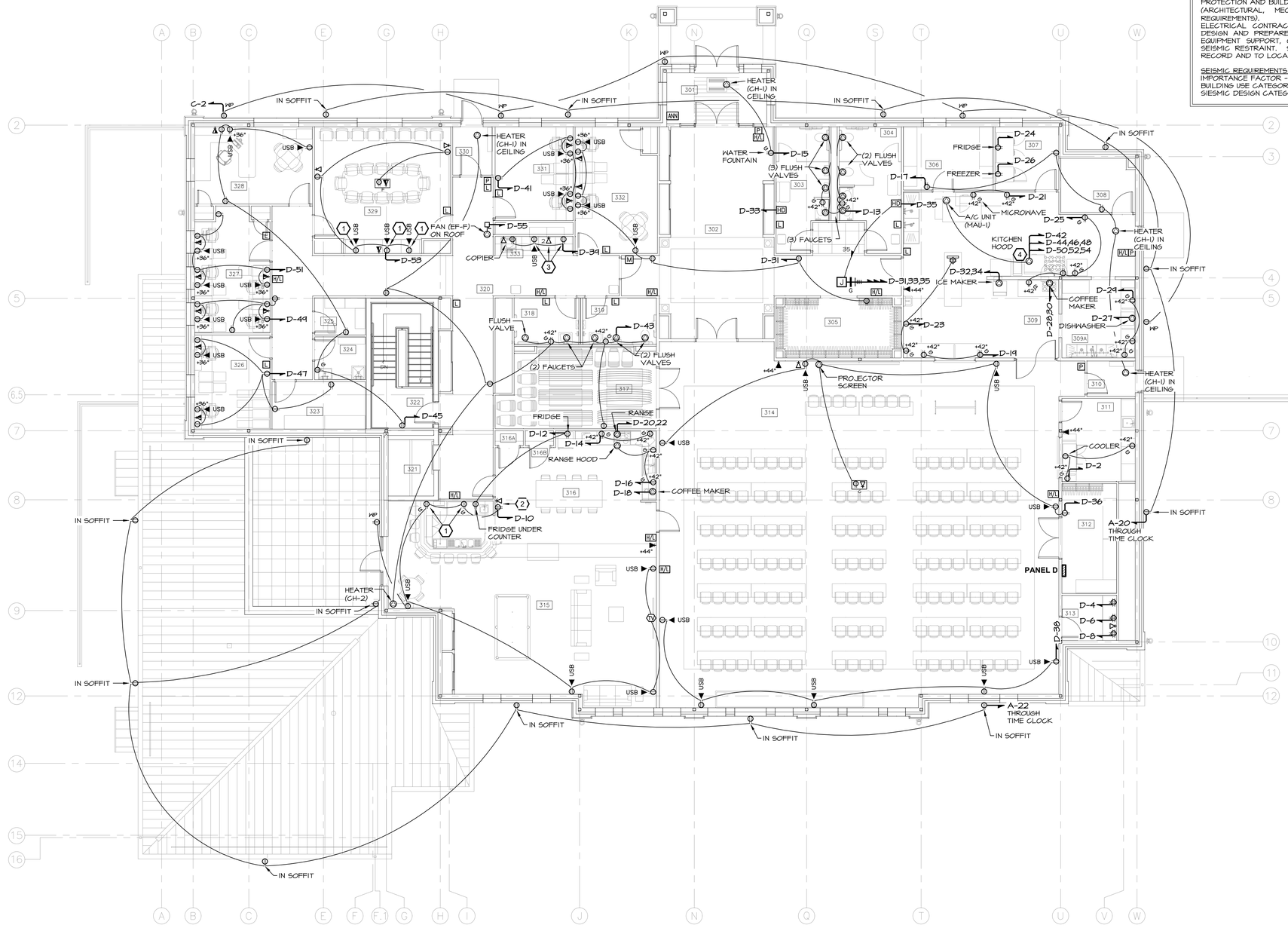
SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

E101

SEISMIC DESIGN FOR ELECTRICAL EQUIPMENT

THE ELECTRICAL SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
ELECTRICAL CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH ELECTRICAL EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE CONDUIT SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
IMPORTANCE FACTOR = 1.5
BUILDING USE CATEGORY = IV
SIESMIC DESIGN CATEGORY = C



KEYED NOTES

(APPLIES TO THIS SHEET ONLY)

1. POWER RECEPTACLE OR DATA OUTLET MOUNTED 4" ABOVE COUNTERTOP. COORDINATE EXACT LOCATION IN FIELD.
2. LOCATION OF 'FIRST-IN MONITOR'. PROVIDE (1) DUPLEX RECEPTACLE AND (1) DATA OUTLET. COORDINATE INSTALLATION HEIGHT WITH OWNER IN FIELD.
3. SEE ARCHITECTURAL INTERIOR ELEVATION DRAWINGS FOR EXACT OUTLET LOCATIONS.
4. REFER TO DRAWING M206 AND KITCHEN HOOD MANUFACTURER'S SPECIFICATIONS FOR ALL LINE VOLTAGE AND CONTROL WIRING TO HOOD CONTROL PANEL, LIGHTS, FANS, AND MAU-1.

1 / E102 — 3rd FLOOR PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

NOTES:
1. ELECTRICAL CONTRACTOR SHALL VERIFY ALL POWERED EQUIPMENT ELECTRICAL SPECIFICATIONS AND LOCATION IN FIELD AND CONSULT ENGINEER ON ANY CHANGES FROM PLANS.

3rd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
301	VESTIBULE	316B	CLOSET
302	LOBBY	317	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	318	WOMEN'S LAVATORY
304	PUBLIC WOMEN'S LAVATORY	319	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STOR.
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSE KEEPING
310	VESTIBULE	326	ASSISTANT CHIEF'S
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEF'S OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4511 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ELECTRICAL:
3rd FLOOR PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

E102

WIRE & CONDUIT SCHEDULE

TAG	FEEDER SIZE	WIRING AND CONDUIT	NOTES
A	20A, 3-PHASE	(3) #12 THHN, #12 GROUND, ¾" EMT	
B	35A, 3-PHASE	(3) #8 THHN, #10 GROUND, ¾" EMT	
C	70A, 3-PHASE	(3) #6 THHN, #8 GROUND, 1" EMT	
D1	100A, 3-PHASE	(3) #3 THHN, #8 GROUND, 1¼" EMT	
D2	100A, 3-PHASE	(4) #3 THHN, #8 GROUND, 1¼" PVC UNDERGROUND	SERVICE ENTRANCE CONDUCTORS
D3	100A, 3-PHASE	(4) #3 THHN, #8 GROUND, 1¼" PVC UNDERGROUND	
E	125A, 3-PHASE	(4) #2 THHN, #6 GROUND, 1½" EMT	
F	225A, 3-PHASE	(4) #4/0 THHN, #4 GROUND, 2½" EMT	
G1	1000A, 3-PHASE	3 SETS: (4) 400mcm THHN, #2/0 GROUND, 3½" EMT	
G2	1000A, 3-PHASE	3 SETS: (4) 400mcm THHN, #2/0 GROUND, 3½" PVC UNDERGROUND	
H	1000A, 3-PHASE	3 SETS: (4) 400mcm THHN, #3/0 GROUND, 4" PVC UNDERGROUND	SERVICE ENTRANCE CONDUCTORS
J	1000A, 3-PHASE	3 SETS: (4) 400mcm THHN, 4" PVC UNDERGROUND	SERVICE ENTRANCE CONDUCTORS

SIGNAGE

PROVIDE ENGRAVED PLASTIC SIGNS, MINIMUM LETTER HEIGHT OF ¼", MOUNTED ON FACES OF ENCLOSURES AS FOLLOWS:

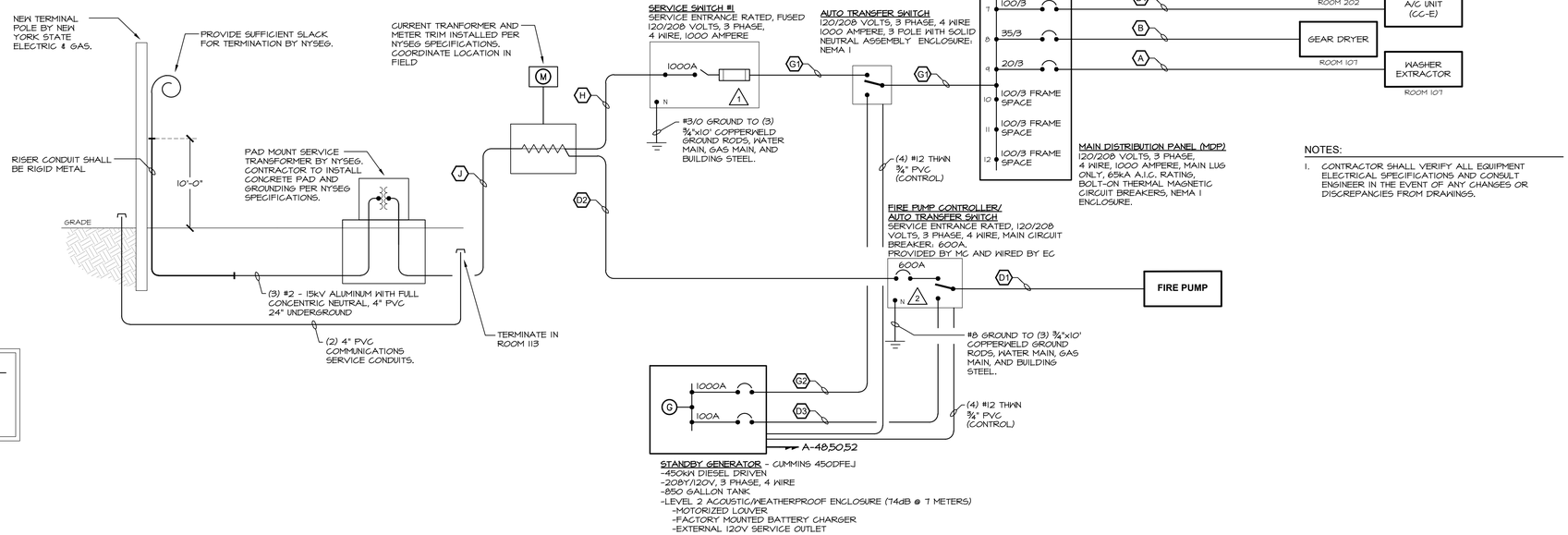
⅜" LETTERS
¼" LETTERS
1

SERVICE DISCONNECT 1 OF 2
THIS SERVICE IS SUPPLIED BY A UTILITY COMPANY SOURCE AND A 450kW STANDBY GENERATOR OPERATING AT 120/208 VOLTS, 3 PHASE, LOCATED TO THE WEST OF THE BUILDING

⅜" LETTERS
¼" LETTERS
2

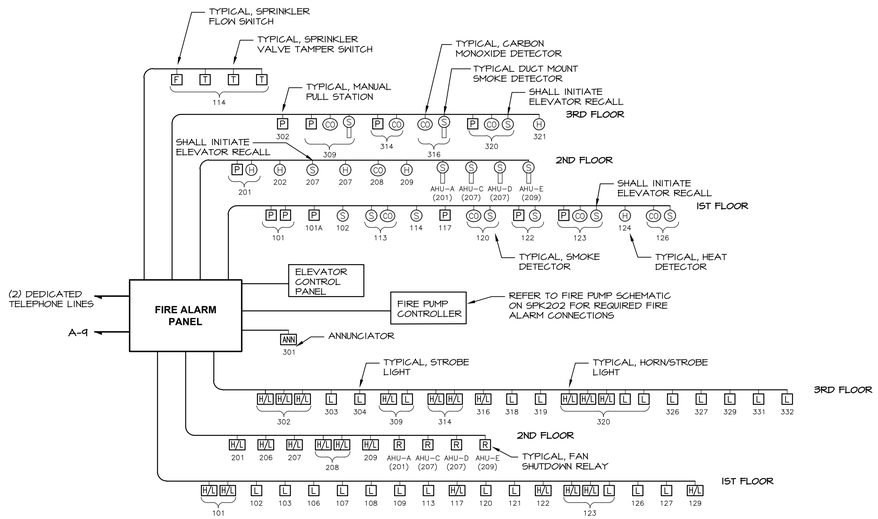
SERVICE DISCONNECT 2 OF 2
THIS SERVICE IS SUPPLIED BY A UTILITY COMPANY SOURCE AND A 450kW STANDBY GENERATOR OPERATING AT 120/208 VOLTS, 3 PHASE, LOCATED TO THE WEST OF THE BUILDING

NOTE:
1. THE CONTRACTOR SHALL HAVE THE EQUIPMENT SUPPLIER PROVIDE AN ARC FAULT CURRENT STUDY FOR THE MAIN DISTRIBUTION PANEL AND ALL BRANCH CIRCUIT PANELS BASED ON THE DESIGN SHOWN ON THIS DRAWING AND ANY ADDITIONAL INFORMATION THAT MAY BE PROVIDED BY THE ENGINEER. PROVIDE ARC FAULT CURRENT AND PPE LABELS FOR ALL PANELS BASED ON STUDY.

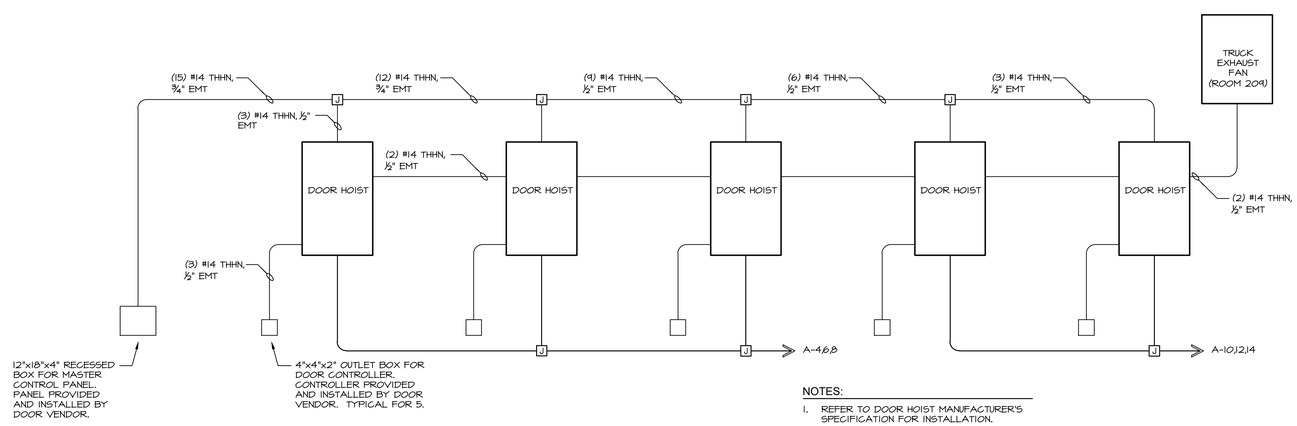


NOTES:
1. CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL SPECIFICATIONS AND CONSULT ENGINEER IN THE EVENT OF ANY CHANGES OR DISCREPANCIES FROM DRAWINGS.

1 E300 ELECTRICAL: POWER SCHEMATIC
NOT TO SCALE



2 E300 ELECTRICAL: FIRE ALARM SCHEMATIC
NOT TO SCALE



NOTES:
1. REFER TO DOOR HOIST MANUFACTURER'S SPECIFICATION FOR INSTALLATION.

3 E300 ELECTRICAL: DOOR HOIST/TRUCK EXHAUST FAN CONTROL SCHEMATIC
NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA04011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

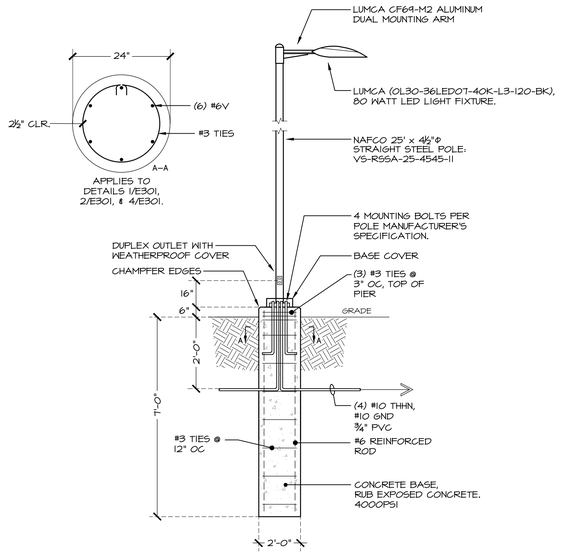
REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ELECTRICAL: DETAILS

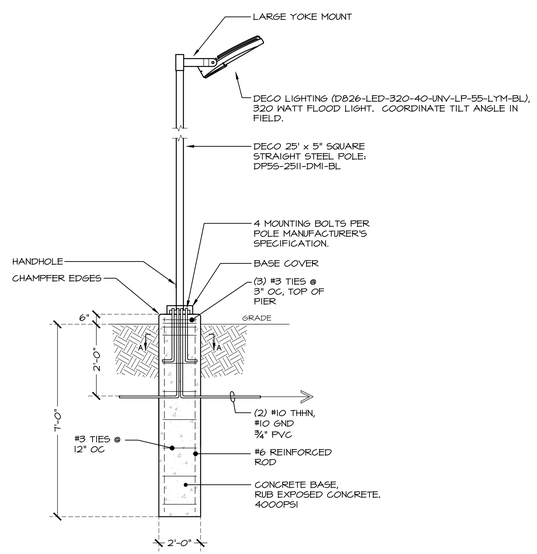
SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

E300



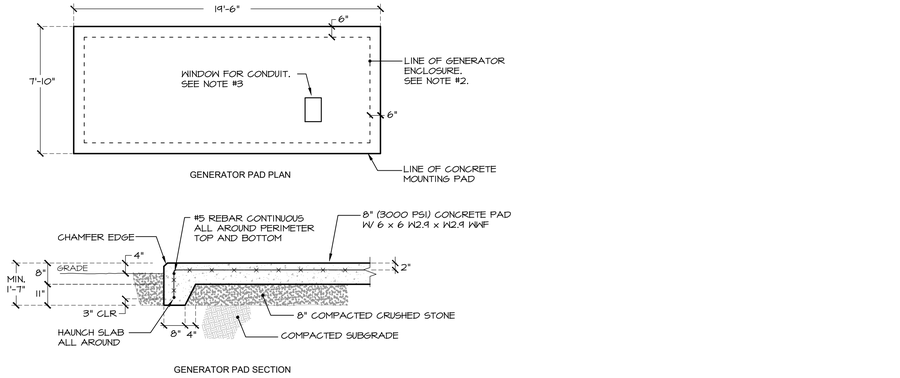
1 E301 SINGLE PARKING LOT POLE LIGHT DETAIL

NOT TO SCALE



2 E301 FLOOD LIGHT DETAIL

NOT TO SCALE



GENERATOR PAD NOTES:

1. CONSTRUCT CONCRETE PAD LEVEL. INCREASE DEPTH OF HAUNCH AS REQUIRED TO ACCOMMODATE SLOPING GRADE. TOP OF PAD SHALL BE 4" ABOVE GRADE ON UPHILL SIDE.
2. CONCRETE PAD SHALL EXTEND 6" BEYOND GENERATOR ENCLOSURE ON ALL SIDES. ADJUSTMENTS IN PAD SIZE SHALL BE MADE TO ACCOMMODATE APPROVED GENERATOR.
3. PROVIDE WINDOWS IN PAD FOR POWER AND CONTROL CONDUITS IN ACCORDANCE WITH GENERATOR MANUFACTURER'S INSTALLATION DRAWINGS.

3 E301 GENERATOR PAD DETAIL

NOT TO SCALE

4 E301 DUAL PARKING LOT POLE LIGHT DETAIL

NOT TO SCALE

NOTES

1. CONCRETE SHALL BE 4000 PSI AT 28 DAYS.
2. CONCRETE PAD SHALL BE REINFORCED WITH GRADE 60 #4 BARS ON 6" CENTERS BOTH WAYS.
3. CONDUITS NOT TO EXTEND ABOVE PAD.
4. CHAMFER ALL EXPOSED CONCRETE EDGES.
5. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND GROUNDING REQUIREMENTS WITH NEW YORK STATE ELECTRIC AND GAS CORP. PRIOR TO INSTALLATION.

5 E301 THREE PHASE TRANSFORMER PAD DETAIL

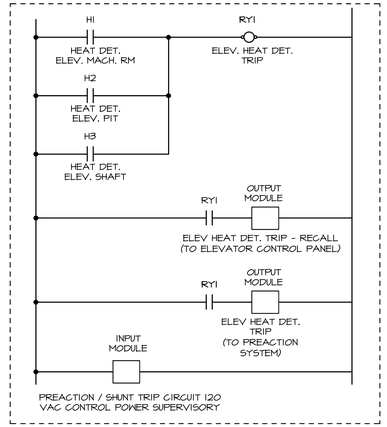
NOT TO SCALE

ELEVATOR SPRINKLER PREACTIVE SYSTEM CONTROL REQUIRED COMPONENTS

1. 135°F HEAT DETECTOR IN ELEVATOR MACHINE ROOM 202 WITH 24 IN. OF SPRINKLER HEAD.
2. 135°F HEAT DETECTOR IN ELEVATOR PIT WITHIN 24 IN. OF SPRINKLER HEAD.
3. 135°F HEAT DETECTOR IN ELEVATOR SHAFT WITHIN 24 IN. OF SPRINKLER HEAD.
4. FIRE ALARM PANEL OUTPUT MODULE FOR ELEVATOR RECALL.
5. FIRE ALARM PANEL OUTPUT MODULE FOR ELEVATOR/SPRINKLER PREACTION CONTROL.
6. ELEVATOR CONTROL PANEL OUTPUT MODULE (OR ELEVATOR CONTROL PANEL N.O. CONTACT PAIR) FOR ELEVATOR RECALL COMPLETE STATUS.
6. ELEVATOR POWER DISCONNECT FUSIBLE DISCONNECT SWITCH
   - 6.1. EQUIPPED WITH SHUNT TRIP MECHANISM OPERATED BY FIRE SAFETY INTERFACE RELAY (2017 NEC 620.51)
   - 6.2. EQUIPPED WITH AUXILIARY CONTACT THAT DISCONNECTS ANY ADDITIONAL EMERGENCY OR STANDBY POWER FROM THE LOAD WHEN THE DISCONNECT SWITCH IS IN THE OPEN POSITION (2017 NEC 620.91)
7. FIRE ALARM PANEL 120 VAC INPUT MODULE FOR SUPERVISORY MONITORING OF CONTROL POWER.

OPERATION

1. HEAT DETECTOR TRIPS (ELEVATOR MACHINE ROOM, ELEVATOR PIT, OR ELEVATOR SHAFT).
2. ELEVATOR RECALL CONTRACTS FROM FIRE PANEL TO ELEVATOR CONTROL PANEL ACTIVATE.
3. ELEVATOR RECALLS TO DEFAULT LEVEL.
4. ELEVATOR RECALL COMPLETE STATUS CONTACTS ACTIVATE.
5. ELEVATOR POWER SUPPLY SHUNT TRIP COIL IS ENERGIZED.
6. ELEVATOR POWER SUPPLY OPENS.
7. LOSS OF 120 VAC CONTROL POWER GENERATES FIRE ALARM PANEL TROUBLE ALARM (SUPERVISORY.



6 E301 ELEVATOR SPRINKLER PREACTION DETAIL

NOT TO SCALE

7 E301 ELECTRICAL CONDUIT TRENCH DETAIL

NOT TO SCALE

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE

FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-4690 FAX:(845) 225-4717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA04101

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

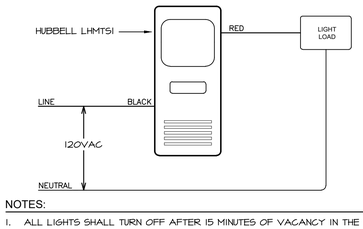
ELECTRICAL: DETAILS

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

E301

LIGHTING CONTROL ROOM SCHEDULE

TAG	SWITCH	MOTION SENSOR	DAYLIGHT SENSOR	ROOM CONTROLLER	OPERATION MODE	DESCRIPTION
1	HUBBELL LHMTSI	NA	NA	NA	AUTOMATIC ON/ AUTOMATIC OFF	WALL SWITCH SENSOR SET FOR OCCUPANCY MODE, 120V. REFER TO DETAIL 1/E302.
2	HUBBELL LHMTSI	NA	NA	NA	MANUAL ON/ AUTOMATIC OFF	WALL SWITCH SENSOR SET FOR VACANCY MODE, 120V. REFER TO DETAIL 1/E302.
3	HUBBELL LHDMIRS3-N	NA	NA	NA	MANUAL ON/ AUTOMATIC OFF	WALL SWITCH VACANCY SENSOR WITH 0-10V DIMMING, 120V. REFER TO DETAIL 2/E302.
4	HUBBELL NXSM-ORLO	HUBBELL OMNIDT2000	NA	HUBBELL NXRC-IRD-UNV	MANUAL ON/ AUTOMATIC OFF	24VDC CEILING MOUNTED VACANCY SENSOR AND (1) 4-BUTTON DIMMING SWITCH, POWERED BY 1-CHANNEL CONTROLLER W 0-10V DIMMING, 120V. REFER TO DETAIL 3/E302
5	HUBBELL NXSM-ORLO	(2) HUBBELL OMNIDT2000	NA	HUBBELL NXRC-IRD-UNV	MANUAL ON/ AUTOMATIC OFF	(2) 24VDC CEILING MOUNTED VACANCY SENSORS AND (1) 4-BUTTON DIMMING SWITCH, POWERED BY 1-CHANNEL CONTROLLER W 0-10V DIMMING, 120V. REFER TO DETAIL 3/E302
6	(3) HUBBELL NXSM-ORLO	(6) HUBBELL OMNIDT2000	NA	(1) HUBBELL NXRC-IRD-UNV, (1) HUBBELL NXRC-2RD-UNV	MANUAL ON/ AUTOMATIC OFF	(6) 24VDC CEILING MOUNTED VACANCY SENSORS AND (3) 4-BUTTON DIMMING SWITCHES, POWERED BY 1-CHANNEL CONTROLLER & 2-CHANNEL CONTROLLER W 0-10V DIMMING, 120V. REFER TO DETAIL
7	(2) HUBBELL NXSM-ORLO	HUBBELL OMNIDT2000	NA	HUBBELL NXRC-IRD-UNV	MANUAL ON/ AUTOMATIC OFF	24VDC CEILING MOUNTED VACANCY SENSOR AND (2) 4-BUTTON DIMMING SWITCH, POWERED BY 1-CHANNEL CONTROLLER W 0-10V DIMMING, 120V. REFER TO DETAIL 3/E302
8	HUBBELL 1201	NA	NA	NA	MANUAL ON/ MANUAL OFF	SINGLE POLE TOGGLE SWITCH, EXTRA HEAVY DUTY INDUSTRIAL GRADE, 15A, 120V.
9	HUBBELL 1201	HUBBELL OMNIDT2000	NA	HUBBELL UVPP	AUTOMATIC ON/ AUTOMATIC OFF	24V CEILING MOUNTED OCCUPANCY SENSOR POWER BY UVPP POWER PACK, WITH SINGLE POLE TOGGLE SWITCH, 120V. REFER TO DETAIL
10	HUBBELL 1201	(2) HUBBELL OMNIDT2000	NA	HUBBELL UVPP	AUTOMATIC ON/ AUTOMATIC OFF	(2) 24V CEILING MOUNTED OCCUPANCY SENSORS POWER BY UVPP POWER PACK, WITH SINGLE POLE TOGGLE SWITCH, 120V. REFER TO DETAIL
11	HUBBELL 1201	(3) HUBBELL OMNIDT2000	NA	HUBBELL UVPP	AUTOMATIC ON/ AUTOMATIC OFF	(3) 24V CEILING MOUNTED OCCUPANCY SENSOR POWER BY UVPP POWER PACK, WITH SINGLE POLE TOGGLE SWITCH, 120V. REFER TO DETAIL
12	(2) HUBBELL 1203	NA	NA	NA	MANUAL ON/ MANUAL OFF	(2) THREE-WAY TOGGLE SWITCHES, EXTRA HEAVY DUTY INDUSTRIAL GRADE, 15A, 120V.
13	(2) HUBBELL 1203	HUBBELL OMNIDT2000	NA	HUBBELL UVPP	AUTOMATIC ON/ AUTOMATIC OFF	24V CEILING MOUNTED OCCUPANCY SENSOR POWERED BY UVPP POWER PACK, WITH (2) THREE-WAY TOGGLE SWITCHES, 120V. REFER TO DETAIL
14	(2) HUBBELL 1203	(2) HUBBELL OMNIDT2000	NA	HUBBELL UVPP	AUTOMATIC ON/ AUTOMATIC OFF	(2) 24V CEILING MOUNTED OCCUPANCY SENSORS POWERED BY UVPP POWER PACK, WITH (2) THREE-WAY TOGGLE SWITCHES, 120V. REFER TO DETAIL
15	(2) HUBBELL 1203	(3) HUBBELL OMNIDT2000	NA	HUBBELL UVPP	AUTOMATIC ON/ AUTOMATIC OFF	(3) 24V CEILING MOUNTED OCCUPANCY SENSORS POWERED BY UVPP POWER PACK, WITH (2) THREE-WAY TOGGLE SWITCHES, 120V. REFER TO DETAIL
16	(2) HUBBELL 1203 & (1) 1204	(4) HUBBELL OMNIDT2000	NA	HUBBELL UVPP	AUTOMATIC ON/ AUTOMATIC OFF	(4) 24V CEILING MOUNTED OCCUPANCY SENSORS POWERED BY UVPP POWER PACK, WITH (2) THREE-WAY, & (1) FOUR-WAY TOGGLE SWITCH, 120V. REFER TO DETAIL

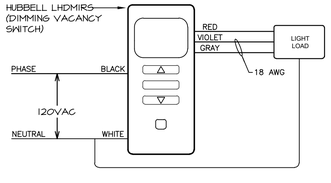


NOTES:

1. ALL LIGHTS SHALL TURN OFF AFTER 15 MINUTES OF VACANCY IN THE ROOM.

1 E302 LINE VOLTAGE OCCUPANCY/VACANCY SWITCH DETAIL

NOT TO SCALE

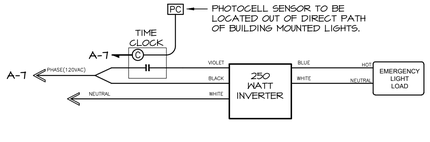


NOTES:

1. ALL LIGHTS SHALL TURN OFF AFTER 20 MINUTES OF VACANCY IN THE ROOM.

2 E302 DIMMING VACANCY SWITCH DETAIL

NOT TO SCALE

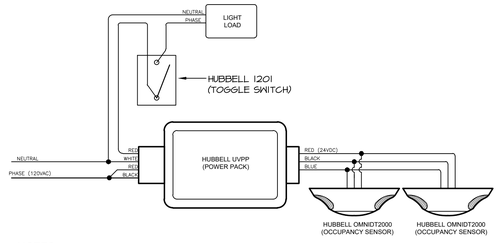


3 E302 EXTERIOR EMERGENCY LIGHTING DETAIL

NOT TO SCALE

LIGHTING CONTROL NOTES:

1. ALL LOW-VOLTAGE DEVICES THAT ARE TO BE RECESSED IN WALL/CEILING SHALL BE INSTALLED IN LOW VOLTAGE PVC ELECTRICAL BOX WITH ALL WIRE CONNECTIONS MADE INSIDE BOX.
2. ALL LOW VOLTAGE DEVICES THAT ARE TO BE SURFACE MOUNTED SHALL BE INSTALLED IN METAL JUNCTION BOX WITH ALL WIRE CONNECTIONS MADE INSIDE BOX.
3. POWER PACKS AND CONTROLLERS SHALL BE MOUNTED TO 4x4 METAL JUNCTION BOX WITH ALL WIRE CONNECTIONS MADE INSIDE BOX.
4. ALL LOW VOLTAGE WIRING SHALL BE ISOLATED FROM LINE VOLTAGE CONDUCTORS UNLESS OTHERWISE APPROVED.
5. GROUND CONDUCTORS OMITTED FROM SCHEMATICS.
6. ALL CONTROL WIRING AND PROGRAMMING SHALL BE VERIFIED WITH MANUFACTURER.
7. SHOP DRAWINGS SHALL BE SUBMITTED WITH INTERCONNECTION DIAGRAMS SHOWING WIRING FOR EACH SYSTEM DETAILED. SCHEMATIC SHALL BE PRODUCED, REVIEWED, AND APPROVED FOR PROPER FUNCTIONALITY BY MANUFACTURER REPRESENTATIVE.

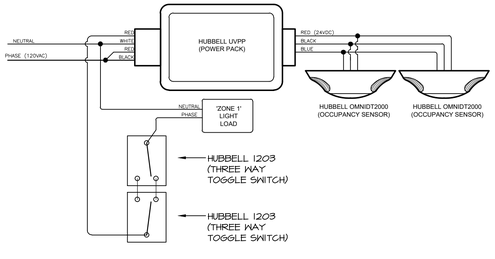


NOTES:

1. WHEN THE SWITCH IS IN THE CLOSED POSITION, ALL LIGHTS SHALL TURN ON AUTOMATICALLY UPON ROOM OCCUPANCY AND AUTOMATICALLY TURN OFF AFTER 20 MINUTES OF VACANCY IN THE ROOM.

4 E302 CEILING OCC. SENSORS W/ SINGLE POLE SWITCH DETAIL

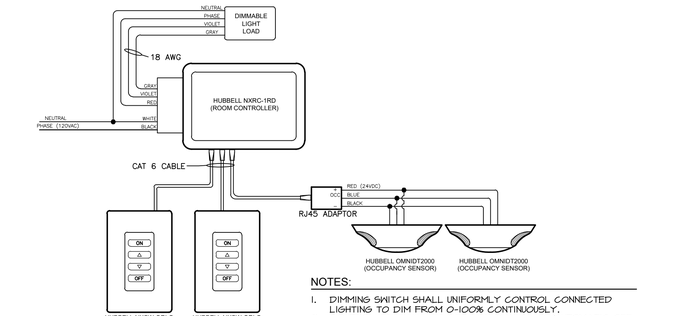
NOT TO SCALE



NOTES:

1. WHEN THE SWITCHES ARE IN THE CLOSED POSITION, ALL LIGHTS SHALL AUTOMATICALLY TURN ON UPON ROOM OCCUPANCY AND AUTOMATICALLY TURN OFF AFTER 20 MINUTES OF VACANCY IN THE ROOM.

5 E302 CEILING OCC. SENSORS W/ 3-WAY SWITCHING DETAIL

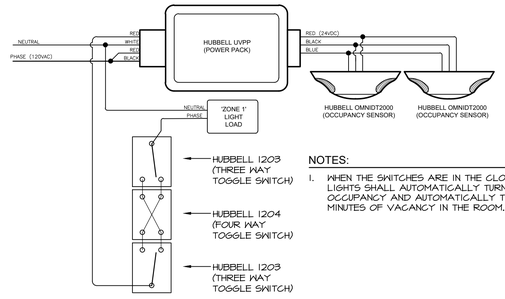


NOTES:

1. DIMMING SWITCH SHALL UNIFORMLY CONTROL CONNECTED LIGHTING TO DIM FROM 0-100% CONTINUOUSLY.
2. CONTROLLER SHALL BE SET FOR MANUAL ON/AUTOMATIC OFF OPERATION MODE, TURNING ALL LIGHTS OFF AFTER 20 MINUTES OF VACANCY IN THE ROOM.

6 E302 CEILING VACANCY SENSOR AND DIMMING SWITCH DETAIL

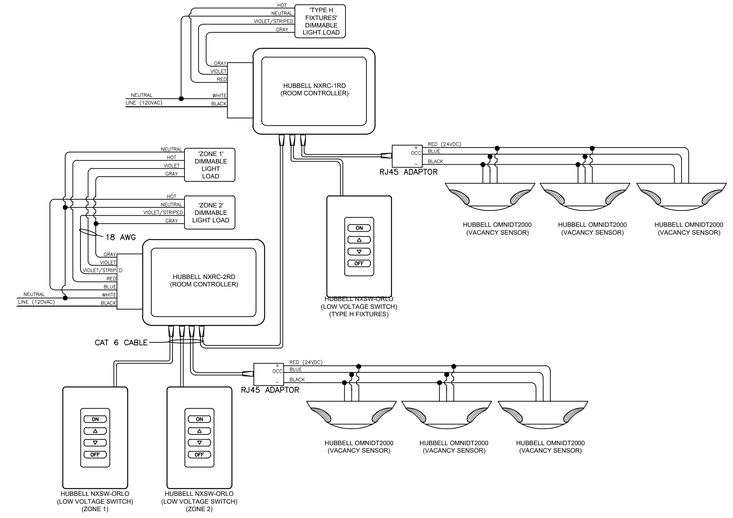
NOT TO SCALE



NOTES:

1. WHEN THE SWITCHES ARE IN THE CLOSED POSITION, ALL LIGHTS SHALL AUTOMATICALLY TURN ON UPON ROOM OCCUPANCY AND AUTOMATICALLY TURN OFF AFTER 20 MINUTES OF VACANCY IN THE ROOM.

7 E302 CEILING OCC. SENSORS W/ 4-WAY SWITCHING DETAIL



NOTES:

1. (6) CEILING MOUNTED VACANCY SENSORS SHALL CONTROL LIGHTING IN ALL (3) ZONES REGARDLESS OF LOCATION.
2. NXSW-ORLO DIMMING SWITCHES SHALL UNIFORMLY CONTROL RESPECTIVE LIGHTING ZONE INDIVIDUALLY TO DIM FROM 10-100% CONTINUOUSLY.
3. CONTROLLERS SHALL BE SET FOR MANUAL ON/AUTOMATIC OFF OPERATION MODE, TURNING ALL LIGHTS OFF AFTER 20 MINUTES OF VACANCY IN THE ROOM.

8 E302 CEILING VACANCY. SENSORS W/ DIMMING SWITCHES (3 ZONES) DETAIL

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE

FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION FOR PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ELECTRICAL: DETAILS

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

E302

ELECTRICAL EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
	———	———	CEILING MOUNTED L.E.D. EXIT SIGN WITH INTEGRAL BATTERY/CHARGER FOR 90 MINUTE ILLUMINATION IN CASE OF POWER LOSS. SIGN SHALL BE WIRED TO UNSWITCHED PHASE LEG OF INDICATED CIRCUIT. 120/277 VOLTS.
	———	———	WALL MOUNTED L.E.D. EXIT SIGN WITH INTEGRAL BATTERY AND CHARGER FOR 90 MINUTE ILLUMINATION IN CASE OF POWER LOSS. SIGN SHALL BE WIRED TO UNSWITCHED PHASE LEG OF INDICATED CIRCUIT. 120/277 VOLTS.
P	———	———	FIRE ALARM MANUAL PULL STATION.
H/L	———	———	FIRE ALARM HORN/STROBE LIGHT.
L	———	———	FIRE ALARM STROBE LIGHT.
R	———	———	FAN SHUTDOWN RELAY.
ANN	———	———	FIRE ALARM ANNUNCIATOR.
M	———	———	MAGNETIC DOOR RELEASE
S	———	———	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR. POSITIONED NO LESS THAN 3'-0" FROM ANY AIR TERMINALS (COORDINATE WITH MECHANICAL CONTRACTOR).
S	———	———	ADDRESSABLE DUCT MOUNTED SMOKE DETECTOR.
H	———	———	ADDRESSABLE FIXED TEMPERATURE (135°C) AND RATE-OF-RISE HEAT DETECTOR.
CO	———	———	CARBON MONOXIDE DETECTOR WITH INTEGRAL SOUNDER BASE AND ADDRESSABLE MODULE.
$	———	———	SINGLE POLE LIGHT SWITCH WITH METAL COVER PLATE. REFER TO 'LIGHTING CONTROL ROOM SCHEDULE' FOR PART SPECIFICATION AND OPERATION MODE. ALL SWITCHES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
$3	———	———	THREE-WAY LIGHT SWITCH WITH METAL COVER PLATE. REFER TO 'LIGHTING CONTROL ROOM SCHEDULE' FOR PART SPECIFICATION AND OPERATION MODE. ALL SWITCHES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
$4	———	———	FOUR-WAY LIGHT SWITCH WITH METAL COVER PLATE. REFER TO 'LIGHTING CONTROL ROOM SCHEDULE' FOR PART SPECIFICATION AND OPERATION MODE. ALL SWITCHES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
$D	———	———	DIMMING LIGHT SWITCH WITH METAL COVER PLATE. REFER TO 'LIGHTING CONTROL ROOM SCHEDULE' FOR PART SPECIFICATION AND OPERATION MODE. ALL SWITCHES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
$T	HUBBELL	DT2000	DIGITAL TIMER WALL SWITCH, ADJUSTABLE UP TO 4 HOURS, 120V. ALL SWITCHES SHALL BE LABELED WITH SOURCE AND CIRCUIT NUMBER.
M	———	———	CEILING MOUNTED MOTION SENSOR. REFER TO 'LIGHTING CONTROL ROOM SCHEDULE' FOR PART SPECIFICATION AND OPERATION MODE.
C	———	———	CEILING MOUNTED RECESSED DUPLEX RECEPTACLE AND DATA OUTLET. VERIFY LOCATION IN FIELD.
F	———	———	RECESSED STEEL FLOOR BOX WITH (1) DUPLEX RECEPTACLE, (1) DATA OUTLET AND (1) TELEPHONE OUTLET. EXTEND ¾" CONDUIT IN FLOOR TO ABOVE FINISHED CEILING. EC SHALL EXTEND IN CONDUIT (2) CAT 6 CABLE HOMERUNS TO ROOM 203. VERIFY LOCATION IN FIELD.
	HUBBELL	2152	DUPLEX RECEPTACLE, DECORA, SPECIFICATION GRADE, 15 AMPERES, 125 VOLTS.
G	HUBBELL	GFR5262	DUPLEX RECEPTACLE WITH GFI, SPECIFICATION GRADE, 15 AMPERES, 125 VOLTS.
WP	HUBBELL	GFR5262	DUPLEX RECEPTACLE WITH GFI AND WEATHERPROOF COVER, SPECIFICATION GRADE, 15 AMPERES, 125 VOLTS.
USB	HUBBELL	USB15AC	COMBINATION DUPLEX RECEPTACLE AND USB CHARGER, (1) TYPE A PORT, (1) TYPE C PORT, (1) TAMPER RESISTANT DUPLEX, 15 AMPERES, 125 VOLTS.
	HUBBELL	2152	(2) DUPLEX OUTLETS IN COMMON BOX (QUAD), SPECIFICATION GRADE, 15 AMPERES, 125 VOLTS.
A	HUBBELL	9330	2 POLE, 3 WIRE, 30A, 250V RECEPTACLE. VERIFY APPLIANCE REQUIREMENTS WITH OWNER BEFORE INSTALLATION.
B	HUBBELL	9367	2 POLE, 3 WIRE, 50A, 250V RECEPTACLE. VERIFY EQUIPMENT REQUIREMENTS WITH OWNER BEFORE INSTALLATION.
C	HUBBELL	2620	NEMA L6-30R RECEPTACLE. 2 POLE, 3 WIRE, 30A, 250V. VERIFY EQUIPMENT REQUIREMENTS WITH OWNER BEFORE INSTALLATION.
	HUBBELL	5362	50' AIR/ELECTRIC COMBO HOSE REEL TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) HUBBELL 5362 125V DUPLEX OUTLET AT CEILING LOCATION. PROVIDE AND INSTALL HUBBELL 1-GRIP STRAIN RELIEF. VERIFY LOCATION IN FIELD.
	COXREELS	FC10-30120B	30' CORD REEL WITH QUAD RECEPTACLE TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE (1) HUBBELL 5362 125V DUPLEX OUTLET AT CEILING LOCATION. VERIFY LOCATION IN FIELD.
2	———	———	DATA OUTLET. PROVIDE 2"x4"x2" OUTLET BOX WITH ¾" CONDUIT TO ABOVE FINISHED CEILING. EC SHALL EXTEND CAT 6 CABLE HOMERUN TO ROOM 203. SUBSCRIPT NEXT TO SYMBOL INDICATES DATA CONNECTION QUANTITY. TERMINATIONS BY OTHERS.
	———	———	TELEPHONE OUTLET. PROVIDE 2"x4"x2" OUTLET BOX WITH ¾" CONDUIT TO ABOVE FINISHED CEILING. EC SHALL EXTEND (1) CAT 6 CABLE HOMERUN TO ROOM 203. TERMINATIONS BY OTHERS.
	———	———	DATA/TELEPHONE OUTLET. PROVIDE 2"x4"x2" OUTLET BOX WITH ¾" CONDUIT TO ABOVE FINISHED CEILING. EC SHALL EXTEND (1) CAT 6 CABLE HOMERUNS TO ROOM 203. TERMINATIONS BY OTHERS.
	———	———	HARD WIRED CONNECTION - WHERE EQUIPMENT OR APPLIANCE DOES NOT HAVE INTEGRAL DISCONNECTING MEANS, ELECTRICAL CONTRACTOR SHALL PROVIDE INDEPENDENT DISCONNECT SWITCH.
	———	———	UNFUSED DISCONNECT SWITCH.
	———	———	FUSED DISCONNECT SWITCH.

EQUIPMENT NOTES:

1. CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL SPECIFICATIONS AND CONSULT ENGINEER IN THE EVENT OF ANY CHANGES OR DISCREPANCIES FROM DRAWINGS.
2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT MOUNTING HEIGHTS/TYPES AND LOCATIONS IN FIELD.
3. CONTRACTOR SHALL VERIFY ALL EQUIPMENT COLORS AND FINISHES WITH ARCHITECT. COLOR CHOICES FOR SELECTION SHALL BE MANUFACTURER'S FULL RANGE OF STANDARD AND CUSTOM COLORS/FINISHED UNLESS OTHERWISE NOTED.

ELECTRICAL EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
SP	———	———	CEILING SPEAKER PROVIDED AND INSTALLED BY OWNER. SPEAKER LAYOUT FOR COORDINATION BASED ON ATLAS FAP62T SPEAKERS TAPPED AT 16 WATTS.
AP	———	———	WIRE ACCESS POINT PROVIDED BY OWNER. EC SHALL EXTENT (1) CAT 6 HOMERUN FROM LOCATION TO ROOM 203. TERMINATIONS BY OTHERS. VERIFY LOCATION IN FIELDS.
TV	———	———	TELEVISION LOCATION. PROVIDE (1) DUPLEX RECEPTACLE, AND (1) 2" x 4" x 2" DEEP OUTLET BOX. WITH ¾" CONDUIT IN WALL TO ABOVE FINISHED CEILING. EC SHALL EXTEND (1) CAT 6 AND (1) RG6/U CABLE HOMERUN TO ROOM 203. TERMINATIONS BY OTHERS. VERIFY LOCATION IN FIELD WITH OWNER.
EMA	EMERGI-LITE	EMIU-250-AD	EMERGENCY POWER INVERTER WITH INTEGRAL BATTERY FOR 90 MINUTES OF POWER AT 250 WATTS, CHARGER, TEST SWITCH AND INTERNAL AUDIBLE DIAGNOSTIC, 120 VOLTS
J	———	———	JUNCTION BOX.
	ENVIROFAN	160C-T	INDUSTRIAL EXTRA HEAVY DUTY REVERSIBLE CEILING FAN 56" BLADE SWEEP WITH DUAL PITCH FAN. PROVIDE AND INSTALL REVERSIBLE SWITCH TO CONTROL (3) FANS, TO BE FIELD LOCATED BY FIRE COMPANY. FAN GUARD 62" DIAMETER, CUSTOM DOWN ROD - LENGTH TO BE DETERMINED IN FIELD. MULTI-FAN SOLID STATE SPEED CONTROLLER FIELD LOCATED IN SPACE. 120V/1.
	———	———	BRANCH CIRCUIT OR HOMERUN: EMT (ELECTRICAL METALLIC TUBING) CONDUIT, OR TYPE MC (METAL CLAD) CABLE WITH TYPE THHN INSULATED COPPER CONDUCTORS. ALL WIRING SHALL BE CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS UNLESS OTHERWISE NOTED.
	———	———	BRANCH CIRCUIT: TYPE MC (METAL CLAD) CABLE WITH COPPER CONDUCTORS AND FULL SIZED GROUND. ALL WIRING SHALL BE CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS UNLESS OTHERWISE NOTED.
	———	———	BRANCH CIRCUIT: EMT (ELECTRICAL METALLIC TUBING) CONDUIT WITH COPPER CONDUCTORS AND FULL SIZED GROUND.
C	———	———	CABLE TV OUTLET. PROVIDE 2"x4"x2" OUTLET BOX WITH ¾" CONDUIT IN WALL TO ABOVE FINISHED CEILING. EC SHALL EXTEND (1) RG6U COAXIAL CABLE HOMERUN TO ROOM 203. TERMINATIONS BY OTHERS.
C F	———	———	RECESSED STEEL FLOOR BOX WITH (1) DUPLEX RECEPTACLE, AND (1) CABLE TV OUTLET. EXTEND ¾" CONDUIT IN FLOOR TO ABOVE FINISHED CEILING. EC SHALL EXTEND IN CONDUIT (1) RG6U CABLE HOMERUN TO ROOM 203. VERIFY LOCATION IN FIELD.
	———	———	FUTURE SECURITY CAMERA LOCATION. PROVIDE ¾" CONDUIT IN WALL TO ABOVE FINISHED CEILING. EC SHALL EXTEND (1) CAT 6 HOMERUN TO ROOM 203. TERMINATIONS BY OTHERS. CAMERA PROVIDED BY OWNER. COORDINATE EXACT LOCATION AND HEIGHT IN FIELD.

ELECTRICAL LIGHTING FIXTURE SCHEDULE

DESIGNATION	MANUFACTURER	CATALOG #	SOURCE	LUMENS	WATTS	VOLTAGE	TYPE
A	WILLIAMS	LT-22-L27/835-AF-DIM-120	L.E.D.	2,722	21.3	120	2'X2' TROFFER, 0-10V DIMMING, 3500K
A1	WILLIAMS	LT-22-L27/835-AF-OCC-DIM-120	L.E.D.	2,722	21.3	120	2'X2' TROFFER WITH INTEGRAL OCCUPANCY SENSOR, 0-10V DIMMING, 3500K
B	WILLIAMS	LT-24-L40/835-AF-DIM-120	L.E.D.	3,972	32	120	2'X4' TROFFER, 0-10V DIMMING, 3500K
B1	WILLIAMS	LT-24-L40/835-(L30)-AF-DIM-120	L.E.D.	3,000	24	120	2'X4' TROFFER, 0-10V DIMMING, 3500K
B2	WILLIAMS	LT-24-L52/835-AF-DIM-120	L.E.D.	5,202	37.2	120	2'X4' TROFFER, 0-10V DIMMING, 3500K
B3	WILLIAMS	LT-24-L40/835-AF-OCC-DIM-120	L.E.D.	3,972	32	120	2'X4' TROFFER WITH OCCUPANCY SENSOR, 0-10V DIMMING, 3500K
C	WILLIAMS	4DR-TL-L20/835-UNV-S-H-OF-WH-IP-AD-WET/CC	L.E.D.	2,000	19.8	120	4" ROUND RECESSED SHOWER LIGHT, SUITABLE FOR WET LOCATION
D	WILLIAMS	AVX-4-L62/835-CPC-DIM-120	L.E.D.	6,253	57	120	1'X4' SURFACE MOUNT, 0-10V DIMMING, 3500K
D1	WILLIAMS	AVX-4-L62/835-CPC-OCCLV 05FIO-10W-120-DIM-120	L.E.D.	6,253	57	120	1'X4' SURFACE MOUNT WITH INTEGRAL OCC. SENSOR, 0-10V DIMMING, 3500K
D2	WILLIAMS	17-2-L27/835-AF-DIM-120	L.E.D.	2,700	31	120	1'X2' WRAP SURFACE MOUNT , 0-10V DIMMING, 3500K
E	WILLIAMS	GH-2-L80/835-FA-6G2/WTB/10-OCCNS FSP-221B-L-120-480-DRV-120	L.E.D.	8,075	55.9	120	1'X2' HIGH BAY, CABLE HUNG. BOTTOM OF FIXTURE @ 15'-0" AFF. PROVIDE REMOTE CONTROLLER
F	WILLIAMS	6DR-TL-L30/835-DIM-UNV-R-M-OF-CS-AD	L.E.D.	3,003	26.9	120	6" ROUND RECESSED DOWN LIGHT, 0-10V DIMMING
F1	WILLIAMS	6DR-TL-L30/835-DIM-UNV-R-M-OF-CS-WET/CC	L.E.D.	3,003	26.9	120	6" ROUND RECESSED DOWN LIGHT SUITABLE FOR WET LOCATION
G	WILLIAMS	SLF-4-L52/835-HIA-OCC6S-SBR-10-DRV-120	L.E.D.	5,092	37.2	120	48" WALL MOUNTED WITH INTEGRAL OCCUPANCY SENSOR
H	WILLIAMS	6DS-L20/835-DIM-UNV-R-M-OF-CS-AD	L.E.D.	2,062	22.5	120	6" SQUARE RECESSED DOWN LIGHT, 0-10V DIMMING
J	WILLIAMS	VNM-V-L17/840-T3-XX-SDGL-TP-DIM-120	L.E.D.	1,600	16	120	EXTERIOR WALL MOUNTED LIGHT FIXTURE, MOUNT ABOVE EGRESS DOOR
K	LUMCA	CPL0421-EKF-IP-LED25-40K-L3-120	L.E.D.	3,100	42	120	WALL MOUNT EXTERIOR LIGHT OVER GARAGE DOOR. MOUNT @ 16' ABOVE GRADE
L	STONCO	VMXL-14-NM-61-8	L.E.D.	1340	14	120	WALL MOUNT FOR ELEVATOR PIT
M	WILLIAMS	510-6-L3/840-FTG-BLK-DIM-120	L.E.D.	300	14	120	10"x5" RECTANGULAR STEP LIGHT
N	WILLIAMS	2DR-F-D-L8G/835-W-CS-NC-DIM-120	L.E.D.	988	14	120	2" ROUND RECESSED DOWN LIGHT
P1	WILLIAMS	1SF-3-L24/835-DMA-DIM-120	L.E.D.	1,800	21.4	120	36" UNDER CABINET LIGHT
P2	WILLIAMS	1SF-4-L24/835-DMA-DIM-120	L.E.D.	2,400	29	120	48" UNDER CABINET LIGHT
Q	LUX	SOL-L-82-SS-12'-0"-40K-8-1-UNV-SI-	L.E.D.	16,028	120	120	12' LINEAR PENDANT LIGHT
	LUMCA	OL30-36LEDOT-40K-L3-120	L.E.D.	8400	80	120	POLE MOUNTED PARKING LOT FIXTURE
R	DECO	D826-LED-320-40-UNV-LP-55-LYM-BL	L.E.D.	38536	320	120	POLE MOUNTED FLOODLIGHT WITH YOKE MOUNT
S	WILLIAMS	VMP-V-L30/740-TFT-XX-SDGL-DIM-120	L.E.D.	2655	36	120	EXTERIOR WALL MOUNTED LIGHT FIXTURE
EM	———	———	———	———	PROVIDE LARGEST INTEGRAL EMERGENCY BATTERY AND CHARGER OPTION AVAILABLE STANDARD WITH FIXTURE. BATTERY SHALL PROVIDE FOR 90 MINUTES OF ILLUMINATION WITHOUT UTILITY POWER. BATTERY AND CHARGER SHALL BE WIRED TO UNSWITCHED HOT LEG OF INDICATED CIRCUIT.			

LIGHTING FIXTURE NOTES:

1. CONTRACTOR SHALL VERIFY ALL LIGHT FIXTURE QUANTITIES, MOUNTING TYPE, AND HEIGHTS IN FIELD.
2. CONTRACTOR SHALL VERIFY ALL LIGHT FIXTURE COLORS AND FINISHES WITH ARCHITECT. COLOR CHOICES FOR SELECTION SHALL BE MANUFACTURER'S FULL RANGE OF STANDARD AND CUSTOM COLORS/FINISHED UNLESS OTHERWISE NOTED.

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2950
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
3 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ELECTRICAL: EQUIPMENT SCHEDULES

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

E400

PANEL A

120/208V, 3 PHASE, 4 WIRE
225 AMPERE MAIN LUGS ONLY

BRANCHES: 22,000 A.I.C. THERMAL MAGNETIC CIRCUIT BREAKERS
ENCLOSURE: NEMA 1 SURFACE MOUNT

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
APPARATUS BAY LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	1 2	20	(2) #12 THHN, #12 GND, ¾" EMT	EXTERIOR OUTLETS
APPARATUS BAY LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	3 4	20		
FIRST FLOOR LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	5 6	20	(4) #12 THHN, #12 GND, ¾" EMT	(3) GARAGE DOOR HOISTS
(2) EXTERIOR EM. LIGHTING	(2) #10 THHN, #10 GND, ¾" EMT	20	7 8	20		
FIRE ALARM CONTROL PANEL	(2) #12 THHN, #12 GND, ¾" EMT	20	9 10	20		
HOSE REEL OUTLETS	(6) #12 THHN, #12 GND, ¾" EMT	20	11 12	20	(4) #12 THHN, #12 GND, ¾" EMT	(2) GARAGE DOOR HOISTS
HOSE REEL OUTLETS		20	13 14	20		
HOSE REEL OUTLETS		20	15 16	20	(2) #12 THHN, #12 GND, ¾" EMT	(4) APPARATUS BAY CEILING FANS
PARKING LOT POLE OUTLETS	(4) #10 THHN, #10 GND, ¾" EMT	20	17 18	20	(2) #12 THHN, #12 GND, ¾" EMT	PHONE/CABLE OUTLETS (113)
(1) PARKING LOT LIGHTS		20	19 20	20	(2) #10 THHN, #10 GND, ¾" EMT	EXTERIOR SOFFIT OUTLETS (1)
COMPRESSOR	(2) #8 THHN, #10 GND, ¾" EMT	35	21 22	20	(2) #10 THHN, #10 GND, ¾" EMT	EXTERIOR SOFFIT OUTLETS (1)
		35	23 24	35	(2) #8 THHN, #10 GND, ¾" EMT	WATER BOOSTER PUMP (WBP-1)
OUTLETS (113,114,115, 116) & (3) EF-C	(2) #12 THHN, #12 GND, ¾" EMT	20	25 26	35		
ICE MAKER (116)	(2) #12 THHN, #12 GND, ¾" EMT	15	27 28	15	(4) #12 THHN, #12 GND, ¾" EMT	JOCKEY PUMP
REFRIGERATOR OUTLET (116)	(2) #12 THHN, #12 GND, ¾" EMT	20	29 30	15		
OUTLETS (101)	(2) #12 THHN, #12 GND, ¾" EMT	20	31 32	15		
OUTLETS (101)	(2) #12 THHN, #12 GND, ¾" EMT	20	33 34	40	(2) #8 THHN, #10 GND, ¾" EMT	A/C UNIT (CC-F)
OUTLETS (101)	(2) #12 THHN, #12 GND, ¾" EMT	20	35 36	40		
OUTLETS (101)	(2) #12 THHN, #12 GND, ¾" EMT	20	37 38	30	(4) #10 THHN, #10 GND, ¾" EMT	A/C UNIT (AHU-E)
FRONT FLOOD LIGHTS	(2) #10 THHN, #10 GND, ¾" EMT	20	39 40	30		
OUTLETS (110,111,112) & EF-C	(2) #12 THHN, #12 GND, ¾" EMT	20	41 42	30		
(1) EXTERIOR GEN. LIGHTING	(2) #10 THHN, #10 GND, ¾" EMT	20	43 44	15	(2) #12 THHN, #12 GND, ¾" EMT	A/C UNIT (AHU-F)
TRUCK EXHAUST CONTROL PANEL	(2) #12 THHN, #12 GND, ¾" EMT	20	45 46	15		
TRUCK EXHAUST FAN	(3) #12 THHN, #12 GND, ¾" EMT	20	47 48	20	(4) #10 THWN, #10 GND, 1" PVC	GENERATOR BLOCK HEATER
		20	49 50	20		
		20	51 52	20		GENERATOR BATTERY CHARGER
SPARE	———	20	53 54	—	———	SPACE ONLY
SPARE	———	20	55 56	—	———	SPACE ONLY
SPARE	———	20	57 58	—	———	SPACE ONLY
SPARE	———	20	59 60	—	———	SPACE ONLY

PANEL B

120/208V, 3 PHASE, 4 WIRE
225 AMPERE MAIN LUGS ONLY

BRANCHES: 22,000 A.I.C. THERMAL MAGNETIC CIRCUIT BREAKERS
ENCLOSURE: NEMA 1 SURFACE MOUNT

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
FIRST FLOOR LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	1 2	20	(2) #12 THHN, #12 GND, ¾" EMT	OUTLETS (107,108, 109) & (2)EF-C, EF-G
FIRST FLOOR LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	3 4	20	(2) #12 THHN, #12 GND, ¾" EMT	DAY ROOM (117) & EF-E
COPIER (102)	(8) #12 THHN, #12 GND, ¾" EMT	20	5 6	20	(2) #12 THHN, #12 GND, ¾" EMT	REFRIGERATOR OUTLET (117)
OUTLETS (102) & EF-C		20	7 8	20	(2) #12 THHN, #12 GND, ¾" EMT	COFFEE MAKER (117)
RADIO ROOM OUTLETS (102)		20	9 10	15	(2) #12 THHN, #12 GND, ¾" EMT	MICROWAVE OUTLET (117)
RADIO ROOM OUTLETS (102)		20	11 12	20	(2) #12 THHN, #12 GND, ¾" EMT	OUTLETS (119,120,121)
WATER FOUNTAIN (101)	(2) #12 THHN, #12 GND, ¾" EMT	20	13 14	40	(2) #8 THHN, #10 GND, ¾" EMT	RANGE (117)
SPARE	———	20	15 16	40		
SPARE	———	20	17 18	20	(2) #12 THHN, #12 GND, ¾" EMT	WATER FOUNTAIN (123)
LAV (103), JANITOR (104)	(2) #12 THHN, #12 GND, ¾" EMT	20	19 20	20	(2) #12 THHN, #12 GND, ¾" EMT	WASHER (125)
WORK ROOM (106)	(2) #12 THHN, #12 GND, ¾" EMT	20	21 22	20	(2) #12 THHN, #12 GND, ¾" EMT	OUTLETS (126,127) & EF-E, EF-G
WORK ROOM (106)	(2) #12 THHN, #12 GND, ¾" EMT	20	23 24	30	(2) #10 THHN, #10 GND, ¾" EMT	CLOTHES DRYER (125)
WORK ROOM (106)	(2) #12 THHN, #12 GND, ¾" EMT	20	25 26	30		
WORK ROOM (106)	(2) #12 THHN, #12 GND, ¾" EMT	20	27 28	20	(2) #12 THHN, #12 GND, ¾" EMT	EXERCISE ROOM (129)
WORK ROOM (106)	(2) #12 THHN, #12 GND, ¾" EMT	20	29 30	20	(2) #12 THHN, #12 GND, ¾" EMT	EXERCISE ROOM (129)
SPARE	———	20	31 32	20	(2) #12 THHN, #12 GND, ¾" EMT	EXERCISE ROOM (129)
(3) WORK ROOM (106) OUTLET	(2) #8 THHN, #10 GND, ¾" EMT	50	33 34	20	(2) #12 THHN, #12 GND, ¾" EMT	EXERCISE ROOM (129)
		50	35 36	20	(2) #12 THHN, #12 GND, ¾" EMT	EXERCISE ROOM (129)
CLOTHES DRYER (107)	(2) #10 THHN, #10 GND, ¾" EMT	30	37 38	20	(2) #12 THHN, #12 GND, ¾" EMT	EXERCISE ROOM (129)
		30	39 40	20	(2) #12 THHN, #12 GND, ¾" EMT	EXERCISE ROOM (129)
WASHER (107)	(2) #12 THHN, #12 GND, ¾" EMT	20	41 42	20	(2) #12 THHN, #12 GND, ¾" EMT	EXERCISE ROOM (129)
SEWAGE EJECTOR PUMP (SE-1)	(2) #12 THHN, #12 GND, ¾" EMT	20	43 44	20	(2) #12 THHN, #12 GND, ¾" EMT	EXERCISE ROOM (129)
		20	45 46	15		A/C UNIT (HP-6)
		20	47 48	15		
SPARE	———	20	49 50	20	(2) #12 THHN, #12 GND, ¾" EMT	SUMP PUMP (SP-1)
SPARE	———	20	51 52	—	———	SPACE ONLY
SPARE	———	20	53 54	—	———	SPACE ONLY
SPARE	———	20	55 56	—	———	SPACE ONLY
SPARE	———	20	57 58	—	———	SPACE ONLY
SPARE	———	20	59 60	—	———	SPACE ONLY

PANEL D

120/208V, 3 PHASE, 4 WIRE
225 AMPERE MAIN LUGS ONLY

BRANCHES: 22,000 A.I.C. THERMAL MAGNETIC CIRCUIT BREAKERS
ENCLOSURE: NEMA 1 SURFACE MOUNT

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
3RD FLOOR LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	1 2	20	(2) #12 THHN, #12 GND, ¾" EMT	OUTLETS (311)
3RD FLOOR LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	3 4	20	(2) #12 THHN, #12 GND, ¾" EMT	AV (313)
3RD FLOOR LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	5 6	20	(2) #12 THHN, #12 GND, ¾" EMT	AV (313)
3RD FLOOR LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	7 8	20	(2) #12 THHN, #12 GND, ¾" EMT	AV (313)
3RD FLOOR LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	9 10	20	(2) #12 THHN, #12 GND, ¾" EMT	OUTLETS (315)
3RD FLOOR LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	11 12	20	(2) #12 THHN, #12 GND, ¾" EMT	(2) FRIDGE OUTLETS (315,316)
OUTLETS (302,303,304,305)	(2) #12 THHN, #12 GND, ¾" EMT	20	13 14	20	(2) #12 THHN, #12 GND, ¾" EMT	MICROWAVE OUTLET (316)
WATER FOUNTAIN (302)	(2) #12 THHN, #12 GND, ¾" EMT	20	15 16	20	(2) #12 THHN, #12 GND, ¾" EMT	OUTLETS (316) & RANGE HOOD
OUTLETS (306,307,308)	(2) #12 THHN, #12 GND, ¾" EMT	20	17 18	20	(2) #12 THHN, #12 GND, ¾" EMT	COFFEE MAKER (316)
KITCHEN OUTLETS (304)	(2) #12 THHN, #12 GND, ¾" EMT	20	19 20	40	(2) #8 THHN, #10 GND, ¾" EMT	RANGE (316)
MICROWAVE OUTLET (304)	(2) #12 THHN, #12 GND, ¾" EMT	20	21 22	40		
KITCHEN OUTLETS (304)	(2) #12 THHN, #12 GND, ¾" EMT	20	23 24	20	(2) #12 THHN, #12 GND, ¾" EMT	FRIDGE OUTLET (307)
KITCHEN OUTLETS (304)	(2) #12 THHN, #12 GND, ¾" EMT	20	25 26	20	(2) #12 THHN, #12 GND, ¾" EMT	FREEZER OUTLET (307)
DISHWASHER (309)	(2) #12 THHN, #12 GND, ¾" EMT	20	27 28	40	(3) #8 THHN, #10 GND, ¾" EMT	COFFEE MAKER (309)
KITCHEN OUTLETS (304)	(2) #12 THHN, #12 GND, ¾" EMT	20	29 30	40		
OUTLETS (305,302,332)	(2) #12 THHN, #12 GND, ¾" EMT	20	31 32	15	(2) #12 THHN, #12 GND, ¾" EMT	ICE MAKER (309)
HAND DRYER (303)	(2) #12 THHN, #12 GND, ¾" EMT	15	33 34	15		
HAND DRYER (304)	(2) #12 THHN, #12 GND, ¾" EMT	15	35 36	20	(2) #12 THHN, #12 GND, ¾" EMT	PROJ./SCREEN & OUTLETS (314)
SPARE	———	20	37 38	20	(2) #12 THHN, #12 GND, ¾" EMT	OUTLETS (314)
COPIER (333)	(2) #12 THHN, #12 GND, ¾" EMT	20	39 40	20	(2) #12 THHN, #12 GND, ¾" EMT	RANGE HOOD AND FAN (316)
OUTLETS (331)	(2) #12 THHN, #12 GND, ¾" EMT	20	41 42	15	(2) #12 THHN, #12 GND, ¾" EMT	RANGE HOOD AND FAN (309)
OUTLETS (318,319)	(2) #12 THHN, #12 GND, ¾" EMT	20	43 44	15	(4) #12 THHN, #12 GND, ¾" EMT	KITCHEN HOOD CONTROL PANEL
OUTLETS (328)	(2) #12 THHN, #12 GND, ¾" EMT	20	45 46	15		
OUTLETS (326)	(2) #12 THHN, #12 GND, ¾" EMT	20	47 48	15		
OUTLETS (327)	(2) #12 THHN, #12 GND, ¾" EMT	20	49 50	15	(4) #12 THHN, #12 GND, ¾" EMT	KITCHEN HOOD CONTROL PANEL
OUTLETS (321)	(2) #12 THHN, #12 GND, ¾" EMT	20	51 52	15		
OUTLETS (324)	(2) #12 THHN, #12 GND, ¾" EMT	20	53 54	15		
FAN (EF-F)	(2) #12 THHN, #12 GND, ¾" EMT	20	55 56	20	———	SPARE
SPARE	———	20	57 58	20	———	SPARE
SPARE	———	20	59 60	20	———	SPARE

PANEL C

120/208V, 3 PHASE, 4 WIRE
225 AMPERE MAIN LUGS ONLY

BRANCHES: 22,000 A.I.C. THERMAL MAGNETIC CIRCUIT BREAKERS
ENCLOSURE: NEMA 1 SURFACE MOUNT

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
2ND FLOOR LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20	1 2	20	(2) #12 THHN, #12 GND, ¾" EMT	EXTERIOR OUTLETS
OUTLETS (201)	(2) #12 THHN, #12 GND, ¾" EMT	20	3 4	45	(4) #8 THHN, #10 GND, ¾" EMT	A/C UNIT (CC-A)
SERVER OUTLET (203)	(4) #12 THHN, #12 GND, ¾" EMT	30	5 6	45		
		30	7 8	45		
ACCESS CONTROL PANEL (203)		20	9 10	35	(2) #8 THHN, #10 GND, ¾" EMT	A/C UNIT (CC-B)
OUTLETS (206,207)	(2) #12 THHN, #12 GND, ¾" EMT	20	11 12	35		
OUTLETS (208,209)	(2) #12 THHN, #12 GND, ¾" EMT	20	13 14	50	(2) #8 THHN, #10 GND, ¾" EMT	A/C UNIT (CC-C)
WATER BOOSTER PUMP (WBP-2)	(4) #8 THHN, #10 GND, ¾" EMT	40	15 16	50		
		40	17 18	45	(4) #8 THHN, #10 GND, ¾" EMT	A/C UNIT (CC-D)
		40	19 20	45		
A/C UNIT (AHU-A)	(4) #12 THHN, #12 GND, ¾" EMT	15	21 22	45		
		15	23 24	15	(2) #12 THHN, #12 GND, ¾" EMT	A/C UNIT (HP-H)
		15	25 26	15		
A/C UNIT (AHU-B)	(2) #12 THHN, #12 GND, ¾" EMT	15	27 28	20	(2) #12 THHN, #12 GND, ¾" EMT	BOILERS (B-1 & B-2) & RECIRC PUMP (P-1)
		15	29 30	15	(2) #12 THHN, #12 GND, ¾" EMT	A/C UNIT (ERU-1)
A/C UNIT (AHU-C)	(4) #12 THHN, #12 GND, ¾" EMT	15	31 32	20	(2) #12 THHN, #12 GND, ¾" EMT	PUMP (P-1)
		15	33 34	20		
		15	35 36	20	(2) #12 THHN, #12 GND, ¾" EMT	PUMP (P-2)
A/C UNIT (AHU-D)	(4) #12 THHN, #12 GND, ¾" EMT	15	37 38	20		
		15	39 40	20	(2) #12 THHN, #12 GND, ¾" EMT	SPARE PUMP (P-3)
		15	41 42	20		
SPARE	———	20	43 44	20	(2) #12 THHN, #12 GND, ¾" EMT	PUMPS (P-4, P-5)
SPARE	———	20	45 46	20	(2) #12 THHN, #12 GND, ¾" EMT	PUMPS (P-6, P-7)
SPARE	———	20	47 48	20	(2) #12 THHN, #12 GND, ¾" EMT	PUMPS (P-8, P-9)
SPARE	———	20	49 50	—	———	SPACE ONLY
SPARE	———	20	51 52	—	———	SPACE ONLY
SPARE	———	20	53 54	—	———	SPACE ONLY
SPARE	———	20	55 56	—	———	SPACE ONLY
SPARE	———	20	57 58	—	———	SPACE ONLY
SPARE	———	20	59 60	—	———	SPACE ONLY

KEYED NOTES (APPLIES TO THIS SHEET ONLY)

(1) PROVIDE PHOTOCELL 'ON' AND 7-DAY TIME CLOCK OFF FOR CONTROL OF EXTERIOR LIGHTS. TIME CLOCK SHALL BE CAPABLE OF RETAINING PROGRAMMING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.

(2) PROVIDE PHOTOCELL 'ON' AND 7-DAY TIME CLOCK OFF FOR EXTERIOR EMERGENCY LIGHT FIXTURES. PROVIDE 250 WATT INVERTER (EMA) FOR 90 MINUTE BACKUP POWER. ALL EMERGENCY WIRING SHALL BE WIRED SEPARATELY WITH DEDICATED NEUTRAL AND IN SEPARATE CONDUIT FROM ALL OTHER LIGHTING BRANCH CIRCUITS. REFER TO DETAIL 9/E6.01.

(3) VERIFY CIRCUIT BREAKER SIZE ACCORDING THE SPECIFICATIONS OF THE OWNER'S EQUIPMENT AT THIS LOCATION.

NOTES:

1. ALL BRANCH CIRCUITRY SHALL BE EXTENDED WITH DEDICATED NEUTRAL CONDUCTOR UNLESS OTHERWISE INDICATED.

FIRE ALARM NOTES

1. FIRE ALARM SYSTEM WIRING, NUMBER AND SIZE OF CONDUCTORS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS BUT NOT LESS THAN 18 AWG. COPPER CONDUCTOR. UL LISTED PLENUM RATED SIGNALING CABLE MAY BE USED IN CONCEALED SPACES.
2. FIRE ALARM SYSTEM SHALL BE FULLY ADDRESSABLE, WITH DISCREET ADDRESSES FOR EACH ACTIVATING DEVICE. MAIN PANEL SHALL IDENTIFY DEVICE BY ROOM NAMES AND LOCATIONS TO BE PROVIDED BY THE BUILDING OPERATOR.
3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERABLE FIRE ALARM AND SMOKE DETECTION SYSTEM IN ACCORDANCE WITH NFPA 72, BUILDING CODE OF NEW YORK STATE AND ALL LOCAL CODES, INCLUDING ALL CIRCUITRY, SMOKE DETECTORS, HEAT DETECTORS, ZONE MODULES, ANNUNCIATION DEVICES, FIRE ALARM PANEL, POWER MODULES, BATTERY BACKUP, MUNICIPAL TIE AND CONNECTION AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THIS DRAWING TO RENDER FIRE ALARM SYSTEM COMPLETE AND OPERATIVE.
4. ELECTRICAL CONTRACTOR SHALL HIRE MANUFACTURER'S REPRESENTATIVE TO FULLY DEMONSTRATE SYSTEM FUNCTION, OPERATION AND MAINTENANCE OF FIRE ALARM SYSTEM TO OWNER.
5. HVAC CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTORS IN DUCTS. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRING, RELAYS AND MISCELLANEOUS EQUIPMENT ASSOCIATED WITH HVAC AIR HANDLER UNIT SHUTDOWN FROM FIRE ALARM PANEL.

GENERAL ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR SHALL PROVIDE TYPEWRITTEN SCHEDULES OF ALL CIRCUITRY IN ALL PANELS. SCHEDULES SHALL MATCH THE LOADS SHOWN IN THE PROJECT PANEL SCHEDULE INCLUDED WITH THESE DRAWINGS. ALL SPARE PANEL SPACES SHALL BE FULLY PROTECTED WITH METAL BLANKS.
2. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE 2017 EDITION, AND THE BUILDING CODE OF NEW YORK STATE .
3. ELECTRICAL CONTRACTOR SHALL OBTAIN, PAY FOR AND COMPLY WITH ALL REQUIRED PERMITS. THE ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO OWNER PRIOR TO COMPLETION OF PROJECT.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS, NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER THE ELECTRICAL INSTALLATION COMPLETE AND OPERATIVE, AND IN COMPLIANCE WITH APPLICABLE CODES.
5. ALL WIRING SHALL BE COPPER CONDUCTOR, MINIMUM SIZE #12 AWG.
6. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING EQUIPMENT AND NOTE CONDITIONS AND AREAS WHERE WORK WILL OCCUR IN FIELD.
7. ELECTRICAL CONTRACTOR SHALL SEAL AROUND ALL PIPE PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS WITH AN INTUMESCENT FIRE STOP MATERIAL TO MAINTAIN FIRE AND SMOKE RATINGS.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH AND MEET ALL REQUIREMENTS OF SERVING POWER UTILITY COMPANY.
9. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO AVOID CONFLICTS OF EQUIPMENT INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT CONNECTIONS, WIRING DEVICES AND LIGHTING WITH ARCHITECT PRIOR TO INSTALLATION.
10. ELECTRICAL CONTRACTOR SHALL SUBMIT EQUIPMENT SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO COMMENCING INSTALLATION.
11. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND PAINTING ASSOCIATED WITH ELECTRICAL WORK.
12. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL INSTALLED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF COMPLETION AND ACCEPTANCE BY THE OWNER. CONTRACTOR AGREES TO REPLACE ANY DEFECTIVE EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER FOR THE DURATION OF THE GUARANTEE PERIOD.
13. MOUNTING HEIGHTS FROM FINISHED FLOOR TO CENTER LINE OF DEVICES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON DRAWINGS:
    - CONVENIENCE OUTLETS: 18"
    - LIGHT SWITCHES: 44"
    - COMMUNICATIONS OUTLETS: 18"
    - FIRE ALARM PULL STATIONS: 44"
    - FIRE ALARM HORNS AND STROBES: 80"

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE

FACILITIES

CONSULTANTS:

INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ELECTRICAL: EQUIPMENT SCHEDULES

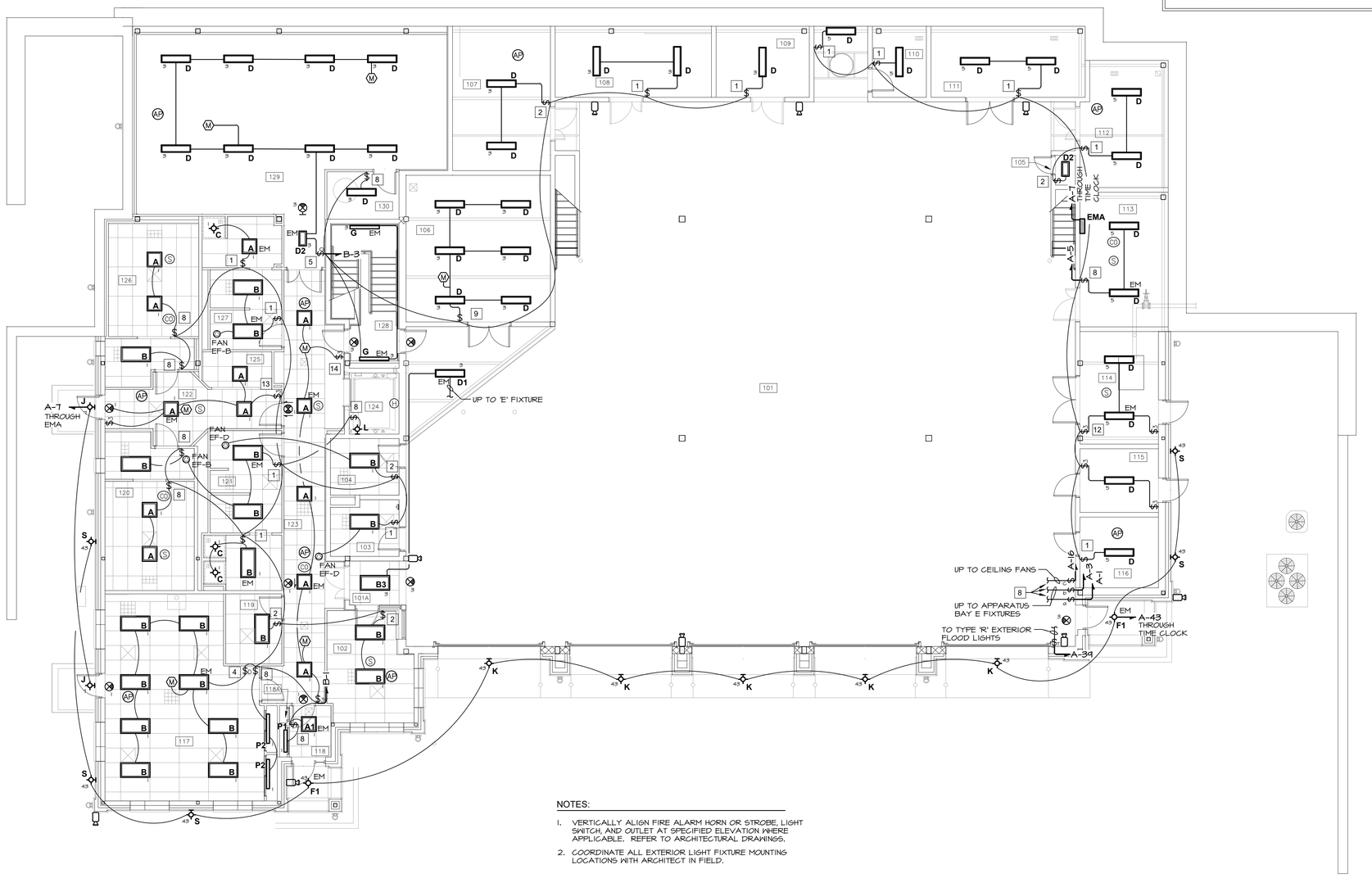
SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

E401

SEISMIC DESIGN FOR ELECTRICAL EQUIPMENT

THE ELECTRICAL SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
ELECTRICAL CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH ELECTRICAL EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE CONDUIT SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
IMPORTANCE FACTOR = 1.5
BUILDING USE CATEGORY = IV
SIESMIC DESIGN CATEGORY = C



NOTES:

1. VERTICALLY ALIGN FIRE ALARM HORN OR STROBE, LIGHT SWITCH, AND OUTLET AT SPECIFIED ELEVATION WHERE APPLICABLE. REFER TO ARCHITECTURAL DRAWINGS.
2. COORDINATE ALL EXTERIOR LIGHT FIXTURE MOUNTING LOCATIONS WITH ARCHITECT IN FIELD.

NOTES

[#] REFER TO 'LIGHTING CONTROL ROOM SCHEDULE' FOR LIGHTING CONTROL EQUIPMENT SPECIFICATION AND OPERATION MODE.

1 / E600 — 1st FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

1st FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
101	APPARATUS BAY	116	HYDRATION ROOM
101A	VESTIBULE	117	DAY ROOM
102	RADIO ROOM	118	VESTIBULE
103	UNISEX LAVATORY	118A	CLOSET
104	JANITOR	119	HK STORAGE
105	RED BAG	120	BUNK ROOM #1
106	ENGINEER'S WORK ROOM	121	MEN'S LAV/SHOWER
107	LAUNDRY	122	CORRIDOR
108	SCBA FILL	123	CORRIDOR
109	COMPRESSOR	124	ELEVATOR
110	GEAR STORAGE	125	HOUSEKEEPING
111	STORAGE #1	126	BUNK ROOM #2
112	HOSE STORAGE	127	WOMEN'S LAV/SHOWER
113	ELECTRICAL	128	STAIR
114	FIRE PUMP	129	EXERCISE
115	DECON	130	PUMP ROOM

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ELECTRICAL: 1st FLOOR REFLECTED CEILING PLAN

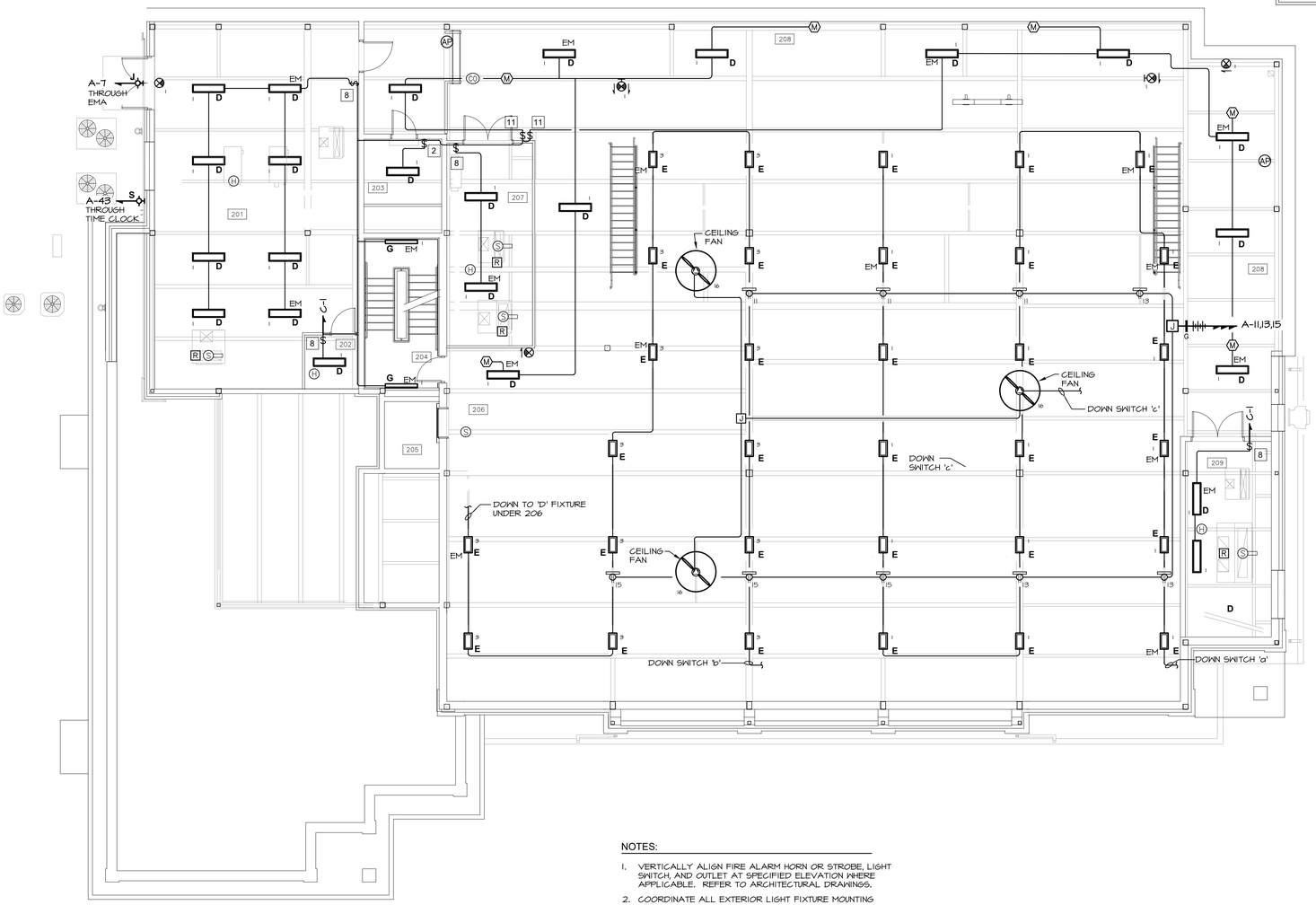
SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

E600

SEISMIC DESIGN FOR ELECTRICAL EQUIPMENT

THE ELECTRICAL SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
ELECTRICAL CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH ELECTRICAL EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE CONDUIT SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
IMPORTANCE FACTOR = 1.5
BUILDING USE CATEGORY = IV
SIESMIC DESIGN CATEGORY = C



NOTES:

1. VERTICALLY ALIGN FIRE ALARM HORN OR STROBE, LIGHT SWITCH, AND OUTLET AT SPECIFIED ELEVATION WHERE APPLICABLE. REFER TO ARCHITECTURAL DRAWINGS.
2. COORDINATE ALL EXTERIOR LIGHT FIXTURE MOUNTING LOCATIONS WITH ARCHITECT IN FIELD.

NOTES

[#] REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR LIGHTING CONTROL EQUIPMENT SPECIFICATION AND OPERATION MODE.

1 / E601 — 2nd FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

2nd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
201	BOILER/ELEC ROOM	206	MEZZANINE
202	ELEVATOR MACHINE ROOM	207	MECHANICAL 1
203	SERVER	208	MEZZANINE
204	STAIR	209	MECHANICAL 2
205	ELEVATOR		

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA07011

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ELECTRICAL: 2nd FLOOR REFLECTED CEILING PLAN

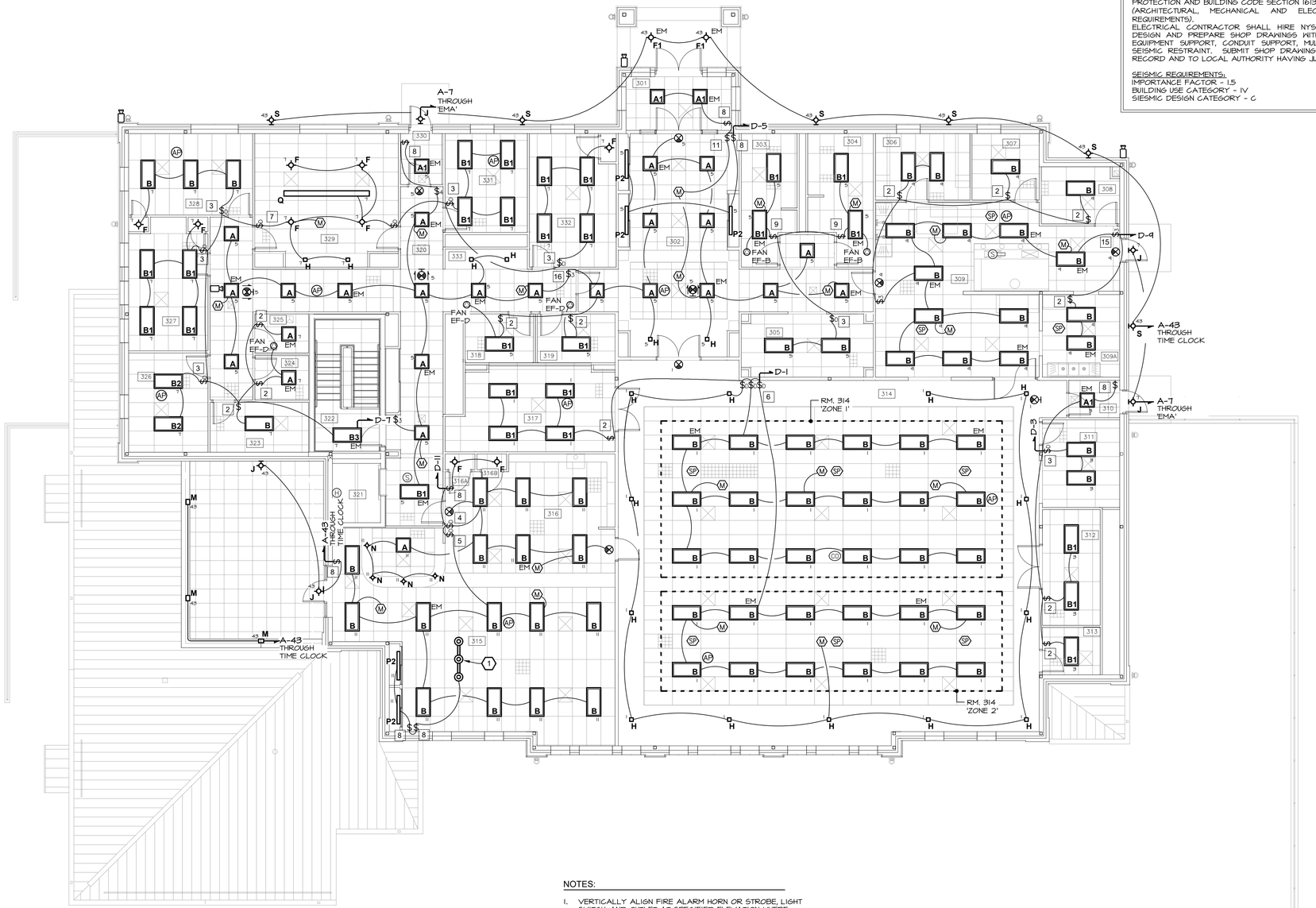
SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

E601

SEISMIC DESIGN FOR ELECTRICAL EQUIPMENT

THE ELECTRICAL SYSTEM SHALL COMPLY WITH THE NEW YORK STATE UNIFORM FIRE PROTECTION AND BUILDING CODE SECTION 1613 AND APPLICABLE PROVISIONS OF ASCE 7 (ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENT SEISMIC DESIGN REQUIREMENTS).
ELECTRICAL CONTRACTOR SHALL HIRE NYS LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PREPARE SHOP DRAWINGS WITH CALCULATIONS FOR EACH ELECTRICAL EQUIPMENT SUPPORT, CONDUIT SUPPORT, MULTIPLE CONDUIT SUPPORT, TRAPEZE AND SEISMIC RESTRAINT. SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO ENGINEER FOR RECORD AND TO LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

SEISMIC REQUIREMENTS:
IMPORTANCE FACTOR = 1.5
BUILDING USE CATEGORY = IV
SIESMIC DESIGN CATEGORY = C



NOTES:

1. VERTICALLY ALIGN FIRE ALARM HORN OR STROBE, LIGHT SWITCH, AND OUTLET AT SPECIFIED ELEVATION WHERE APPLICABLE. REFER TO ARCHITECTURAL DRAWINGS.
2. COORDINATE ALL EXTERIOR LIGHT FIXTURE MOUNTING LOCATIONS WITH ARCHITECTURAL ELEVATION DRAWINGS.

NOTES

[#] REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR LIGHTING CONTROL EQUIPMENT SPECIFICATION AND OPERATION MODE.

KEYED NOTES (APPLIES TO THIS SHEET ONLY)

⟨1⟩ PENDANT BILLIARD LIGHT FIXTURE PROVIDED BY OWNER. ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE FIXTURE. VERIFY FIXTURE LOCATION IN FIELD.

1 / E602 — 3rd FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

CALLED NORTH
NORTH

3rd FLOOR ROOM LEGEND

NO.	NAME	NO.	NAME
301	VESTIBULE	316B	CLOSET
302	LOBBY	317	TABLE/CHAIR STORAGE
303	PUBLIC MEN'S LAVATORY	318	WOMEN'S LAVATORY
304	PUBLIC WOMEN'S LAVATORY	319	MEN'S LAVATORY
305	COAT ROOM	320	CORRIDOR
306	PANTRY	321	ELEVATOR
307	REFRIGERATED STORAGE	322	STAIR
308	DISH STORAGE	323	FIRE PREVENTION STOR.
309	KITCHEN	324	JANITOR
309A	DISH WASHING	325	HOUSE KEEPING
310	VESTIBULE	326	ASSISTANT CHIEFS
311	SERVICE CENTER	327	JUNIOR OFFICERS
312	STORAGE	328	CHIEF'S OFFICE
313	AV	329	CONFERENCE ROOM
314	MEETING/TRAINING	330	VESTIBULE
315	MEMBERS ROOM	331	PRESIDENT/VP OFFICE
316	KITCHENETTE	332	BUSINESS OFFICE
316A	CLOSET	333	WORK AREA

MITCHELL ASSOCIATES ARCHITECTS
29 THACHER PARK ROAD
VOORHEESVILLE, NY 12186
(518) 765-4571 FAX (518) 765-2450
WWW.MITCHELL-ARCHITECTS.COM

EMERGENCY SERVICE
FACILITIES

CONSULTANTS:
INSITE ENGINEERING SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY 10512
(845) 225-9690 FAX:(845) 225-9717

CRAIG A. MALONEY P.E.
STRUCTURAL ENGINEERING CONSULTANT
9 BENEDICT COURT
BALLSTON SPA, NY 12020
(518) 584-9944 FAX:(518) 584-9955

GERARD ASSOCIATES
CONSULTING ENGINEERS, P.C.
MECHANICAL, PLUMBING AND ELECTRICAL
223 MAIN STREET
GOSHEN, NY 10924
(845) 291-1272
GA0701

COPYRIGHT 2012
MITCHELL ASSOCIATES ARCHITECTS
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF LAW

NEW STATION
FOR
PUTNAM VALLEY FIRE STATION #1

OSCAWANA LAKE ROAD
PUTNAM VALLEY, NEW YORK

REVISION HISTORY

	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

ELECTRICAL:
3rd FLOOR
REFLECTED CEILING PLAN

SCALE: AS NOTED
DWG. BY: KC
DWG. DATE: 8/14/2020
STATUS: BID DRAWINGS

E602