

EQUIPMENT LAYOUT PLAN  
 1/8" = 1'-0"

Industrial Equipment Schedule					
EQ Number	Description	Count	Equipment Type	Spec Number	Notes
A-1	5 Ton Bridge Crane	1	N	14 22 13	ADD ALT. #4
B-1	72,000lbs Four Post Mobile Lift	1	N	14 45 00	
B-2	18K 2 Post Lift	1	N	14 45 00	
B-3	1,800lbs Portable Mower Lift	1	N	14 45 00	
C-1	Lube Reel Bank (5 reels)	1	N	11 11 29	ADD ALT. #5
C-2	Low Profile Waste Oil Caddy	1	N	11 11 29	ADD ALT. #5
C-3	Waste Oil Pump Out	1	N	11 11 29	ADD ALT. #5
C-4	Waste Oil High Level Alarm	1	N	11 11 29	ADD ALT. #5
C-5A	Waste Oil Caddy	1	N	11 11 29	ADD ALT. #5
C-5B	Waste Antifreeze Caddy	1	N	11 11 29	ADD ALT. #5
C-6	Waste Anti-Freeze Pump Out	1	N	11 11 29	ADD ALT. #5
C-7	Waste Antifreeze High Level Alarm	1	N	11 11 29	ADD ALT. #5
C-8	Oil Filter Drain Box	1	N	11 11 29	ADD ALT. #5
C-9	DEF Mobile Cart w/ Pump	1	ERO	N/A	
C-10	Portable Grease Caddy	1	ERO	N/A	
C-11	N/A	1	N/A	N/A	
C-12	Fluid Tank 300 Gal (100 15W-40, 100 ATF, 100 Hydraulic Fluid)	1	N	11 11 29	ADD ALT. #5
C-13	Waste Fluid Tank (300 Waste oil, 100 Waste Anti Freeze)	1	N	11 11 29	ADD ALT. #5
C-14	Fluid Storage Room Sump Alarm	1	N	11 11 29	ADD ALT. #5
C-15	Wall Mounted Lube Pumps	3	N	11 11 29	ADD ALT. #5
C-16	Oil Trolley	2	N	11 11 29	ADD ALT. #5
D-1	Steel Work Bench (72inx36in)	2	N	12 40 00	ADD ALT. #7
D-2	Steel Work Bench w Casters	1	N	12 40 00	ADD ALT. #7
D-3	Electric Charging Station	1	N	12 40 00	ADD ALT. #7
E-1	Hydraulic Hose Crimping Machine	1	N	12 40 00	
E-2	Hydraulic Hose & Fitting Storage	1	N	12 40 00	
E-3	Hydraulic Hose Reel Rack	1	N	12 40 00	
E-4	Hydraulic Hose Saw	1	N	12 40 00	
F-1	MIG Welder	1	N	12 40 00	
F-2	Torch Cart	1	N	12 40 00	
F-3	Welding Screen	2	N	12 40 00	
F-4	Plasma Cutter	1	ERO	N/A	
F-5	Oxygen Tank Storage Cage	1	N	12 40 00	
F-6	Portable Weld Fume Extractor	1	N	12 40 00	
G-1	Tire Changer	1	N	12 40 00	
G-2	Tire Balancer	1	N	12 40 00	
G-3	Tire Storage Rack	1	N	12 40 00	
H-1	Pallet Rack	1	N	12 40 00	ADD ALT. #7
H-2	Storage Cabinet	1	N	12 40 00	ADD ALT. #7
H-3	Bin Storage	3	N	12 40 00	ADD ALT. #7
H-4	Flammable Cabinet (45 Gallons)	1	N	12 40 00	ADD ALT. #7
H-5	Small Part Drawer Storage	1	N	12 40 00	ADD ALT. #7

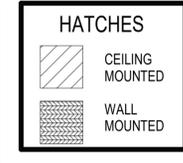
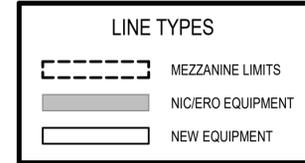
Industrial Equipment Schedule					
EQ Number	Description	Count	Equipment Type	Spec Number	Notes
H-6	Parts Shelving (6' x 2')	18	N	12 40 00	ADD ALT. #7
H-7	Cantilever Rack	1	N	12 40 00	ADD ALT. #7
H-8	Cubby Storage	1	N	12 40 00	ADD ALT. #7
M-1	Anchor Pot	1	N	12 40 00	
M-2	Drill Press	1	N	12 40 00	
M-3	Heavy Duty Anvil Bench Vice	1	N	12 40 00	
M-4	Parts Washer	1	N	12 40 00	
M-5	Bench Grinder	1	N	12 40 00	
M-6	Portable Battery Charger	1	N	12 40 00	
M-7	Brake Fluid Exchanger	1	N	12 40 00	
M-8	N/A	1	N/A	N/A	
M-9	3-Ton Floor Jack	2	N	12 40 00	
M-10	5-Ton Floor Jack	1	N	12 40 00	
M-11	AC Recovery and Recharge System	1	N	12 40 00	
M-12	Shop Press	1	ERO	N/A	
M-13	Snap-On Red Toolbox	1	ERO	N/A	
M-14	Bench Vice	1	ERO	N/A	
M-15	Tool Cart	3	ERO	N/A	
M-16	Bench Mounted Chainsaw Sharpener	1	ERO	N/A	
M-17	Transmission Jack	1	ERO	N/A	
M-18	2-Ton Engine Crane	1	ERO	N/A	
M-19	KantLeak Vac-U-Fill	1	ERO	N/A	
M-20	3/4 Ton Wheel Dolly	1	ERO	N/A	
M-21	Trash Can	1	ERO	N/A	
M-23	Drum Dolly	5	N	12 40 00	
M-24	Mobile Platform	1	N	12 40 00	
V-1	Vehicle wash Pressure Plant	1	N	11 11 26	
V-1A	Manual Wash Control panel	1	N	11 11 26	
V-2	Vehicle Wash - Hot Water Heater	1	N	11 11 26	
V-3	Vehicle Wash Festoon	2	N	11 11 26	
V-4	Automatic Undercarriage Pump Skid	1	N	11 11 26	
V-4A	Undercarriage Wash Control Panel	1	N	11 11 26	
V-5	Automatic Undercarriage photo Eye	2	N	11 11 26	
V-6	Undercarriage Control Panel	2	N	11 11 26	
V-7	Vehicle Wash Soap Drum	1	N	11 11 26	
V-8	Vehicle Wash Guide Rails	1	N	11 11 26	
V-9	Vehicle Wash Pre-Treatment Tank (1500gal)	1	N	11 11 26	
V-10	Vehicle Wash Mobile Platform	1	N	11 11 26	
V-11	Vehicle wash Entry Traffic Light	1	N	11 11 26	
V-12	Automatic Undercarriage Blasters	1	N	11 11 26	
V-13	Vehicle Wash Activation Light	1	N	11 11 26	
V-14	Automatic Undercarriage Wash Toggle Switch	1	N	11 11 26	
V-15	Loop Detector	1	N	11 11 26	

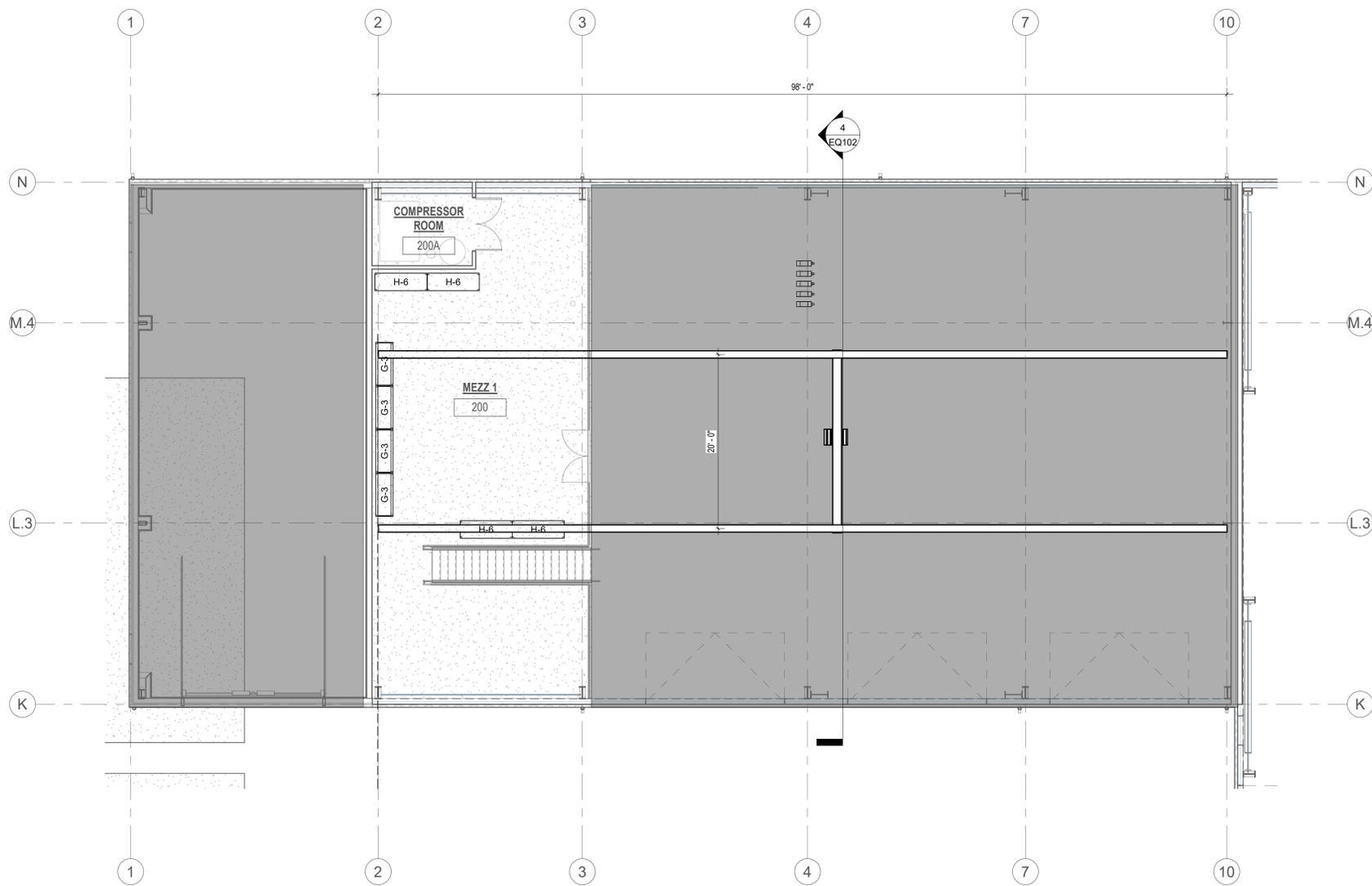
GENERAL NOTES:

- EQUIPMENT LAYOUTS ARE SCHEMATIC. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT LOCATIONS WITH OWNER AND MANUFACTURER REQUIREMENTS. GENERAL CONTRACTOR SHALL COORDINATE ALL UTILITY REQUIREMENTS WITH ELECTRICAL, PLUMBING, AND HVAC CONTRACTORS. FINAL EQUIPMENT LOCATIONS SHALL BE CONFIRMED BY THE OWNER PRIOR TO RUNNING UTILITIES AND INSTALLATION EQUIPMENT.
- GENERAL CONTRACTOR SHALL COORDINATE UTILITY REQUIREMENTS OF EXISTING EQUIPMENT PRIOR TO INSTALLATION OF SERVICES.
- PRIOR TO RUNNING UTILITIES, GENERAL CONTRACTOR SHALL MARK OUT ALL EQUIPMENT LOCATIONS ON THE FLOOR USING CHALK OR ANOTHER ACCEPTABLE MEANS, AND SHALL REVIEW/REVISE FINAL EQUIPMENT LOCATIONS AS DIRECTED BY THE OWNER AND THE ENGINEER.
- B-2 SHALL BE CENTERED IN THE MAINTENANCE BAYS AS DEFINED BY THE OVERHEAD DOOR OPENING. CONFIRM INSTALLATION LAYOUT DIMENSIONS WITH THE MANUFACTURER. ALSO SEE OWNERS MANUALS.
- ELECTRICAL, MECHANICAL, AND PLUMBING CONTRACTORS SHALL PROVIDE AND CONNECT UTILITIES TO ALL EQUIPMENT AS SHOWN ON THE ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS IN ORDER TO PROVIDED A COMPLETE AND OPERABLE SYSTEM. ALL UTILITIES FOR EQUIPMENT SHALL BE PROVIDED AS PART OF THE BASE BID HOWEVER THE COSTS ASSOCIATED WITH MAKING FINAL UTILITY CONNECTIONS FOR EQUIPMENT SHALL BE INCLUDED IN THE APPLICABLE BID ALTERNATE.
- THE ELECTRICAL CONTRACTOR SHALL HAVE A NEW YORK LICENSED ELECTRICIAN CONFIRM THE VOLTS, PHASE, AMPS, AND NEMA PLUG CONFIGURATION FOR EACH PIECE OF EQUIPMENT (INCLUDING EXISTING EQUIPMENT TO BE RELOCATED) IN ADVANCE OF ORDERING MATERIALS AND INSTALLATION.
- SEE SPECIFICATION SECTION 11 11 29 - FLUID DISTRIBUTION SYSTEM ALONG WITH DETAILS ON EQ102 & EQ103 FOR ADDITIONAL INFORMATION AND SCOPE DELINEATION FOR THE FLUID AND WASTE FLUID DISTRIBUTION SYSTEMS.
- THE UNDERCARRIAGE WASH TRENCH DRAINS SHALL BE FURNISHED BY THE GENERAL CONTRACTOR'S VEHICLE WASH SUB CONTRACTOR AND SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR.

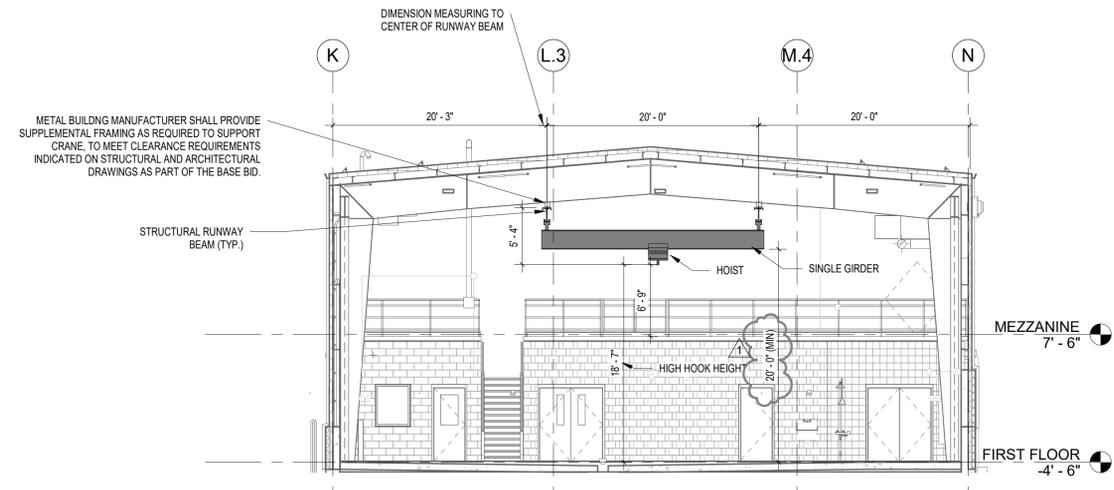
ABBREVIATIONS:

- N NEW EQUIPMENT TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
- ERO EXISTING EQUIPMENT TO BE RELOCATED AND INSTALLED BY THE OWNER. UTILITIES FOR ERO EQUIPMENT TO BE PROVIDED BY GENERAL CONTRACTOR. UTILITES SHALL BE PROVIDED BY THE ELECTRICAL AND PLUMBING CONTRACTORS.
- ERC EXISTING EQUIPMENT TO BE RELOCATED AND INSTALLED BY THE CONTRACTOR. UTILITIES FOR ERC EQUIPMENT TO BE PROVIDED BY THE GENERAL CONTRACTOR-THE ELECTRICAL AND PLUMBING CONTRACTORS.
- NIC NEW EQUIPMENT PROVIDED AND INSTALLED BY THE OWNER (NOT IN CONTRACT), HOWEVER UTILITIES FOR THIS EQUIPMENT SHALL BE PROVIDED BY SUB CONTRACTORS BY THE ELECTRICAL AND PLUMBING CONTRACTORS.





MEZZANINE EQUIPMENT LAYOUT  
1/8" = 1'-0"



5-TON BRIDGE CRANE DETAIL (ADD ALTERNATE #4)  
1/8" = 1'-0"

Mezzanine Industrial Equipment Schedule					
EQ Number	Description	Count	Equipment Type	Spec Number	Notes
G-3	Tire Storage Rack	4	N	12 40 00	ADD ALT. #7
H-6	Parts Shelving (6' x 2')	4	N	12 40 00	ADD ALT. #7

Industrial Equipment Power Schedule						
EQ Number	Description	Count	E - Voltage	E - Phase	E - Amps	E - HP
A-1	5 Ton Bridge Crane	1	480V	3PH	14A Nom. 53A St.	
B-1	72,000lbs Four Post Mobile Lift	1	120V	1PH	1.3A	
B-2	18K 2 Post Lift	1	208V	1PH		4HP
C-1	Lube Reel Bank (5 reels)	1	120V	1PH	25A	
C-4	Waste Oil High Level Alarm	1	120V	1PH	6.6A	
C-7	Waste Antifreeze High Level Alarm	1	120V	1PH	6.6A	
C-9	DEF Mobile Cart w/ Pump	1	120V	1PH	2.5A	
C-14	Fluid Storage Room Sump Alarm	1	120V	1PH	6.6A	
D-3	Electric Charging Station	1	120V	1PH	15A	
E-1	Hydraulic Hose Crimping Machine	1	120V	1PH		1.5HP
E-4	Hydraulic Hose Saw	1	208V	1PH		5HP
F-1	MIG Welder	1	208V	1PH	57A	
F-4	Plasma Cutter	1	208V	1PH	52A	
F-6	Portable Weld Fume Extractor	1	120V	1PH	17.9A	1HP
G-1	Tire Changer	1	208V	1PH	20A Breaker	1HP
G-2	Tire Balancer	1	208V	1PH	10A	
M-2	Drill Press	1	120V	1PH		1.5HP
M-4	Parts Washer	1	120V	1PH	1.4A	
M-5	Bench Grinder	1	120V	1PH	3.6A	
M-6	Portable Battery Charger	1	120V	1PH	10A	
M-11	AC Recovery and Recharge System	1	120V	1PH	10 A	
M-16	Bench Mounted Chainsaw Sharpener	1	120V	1PH	2.1A	
V-1	Vehicle wash Pressure Plant	1	480V	3PH	25 A	7.5 HP
V-1A	Manual Wash Control panel	1	120V	1PH	20A	
V-2	Vehicle Wash - Hot Water Heater	1	120V	1PH	1A	
V-4	Automatic Undercarriage Pump Skid	1	480V	3PH	70A	40HP
V-4A	Undercarriage Wash Control Panel	1	120V	1PH	20A	

Industrial Equipment Plumbing Schedule					
EQ Number	Type	Count	P - Vent	P - Air	P - Water
B-3	1,800lbs Portable Mower Lift	1		Shop Air (90-100 psi)	
C-3	Waste Oil Pump Out	1		Shop air (60-120PSI)	
C-6	Waste Anti-Freeze Pump Out	1		Shop air (60-120PSI)	
C-10	Portable Grease Caddy	1		Air Operated	
C-15	Wall Mounted Lube Pumps	3		6:1 pumps 7 scfm @ 40 psi. 12:1 pumps 69 scfm @ 90 psi. Diaphragm pumps 10 scfm @ 60 psi.	
G-1	Tire Changer	1		110-145 PSI	
V-1	Vehicle wash Pressure Plant	1		1/2" 6CFM @ 90PSI	1" Water connection from V-2
V-2	Vehicle Wash - Hot Water Heater	1	4" Vent	3/4" Gas connection (440,000btu/hr)	1" Water 10 gpm @ 60psi
V-4	Automatic Undercarriage Pump Skid	1		1/2" 6 cfm 80-100psi air	1.5" supply (water line connects to a 250 gallon buffer tank)
V-9	Vehicle Wash Pre-Treatment Tank (1500gal)	1	4" vent per chamber		

- NOTES:
- BRIDGE CRANE SHALL BE INCLUDED IN ADD ALTERNATE #4.
  - METAL BUILDING MANUFACTURER SHALL PROVIDE STEEL SUPPORT/SHIMS FOR BRIDGE CRANE EQUIPMENT TO ACCOMMODATE THE SLOPE OF THE STRUCTURAL STEEL IN ORDER TO PROVIDE A LEVEL BRIDGE CRANE SYSTEM AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
  - HOOK SHALL NOT EXTEND MORE THAN 1.5 FT DOWN FROM CRANE GIRDER WHEN IN FULL UP POSITION.
  - SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
  - COORDINATE BRIDGE CRANE HEIGHT WITH OTHER UTILITIES AS REQUIRED.
  - BRIDGE CRANE SHALL BE LOCATED VERTICALLY IN THE VEHICLE MAINTENANCE SHOP TO PROVIDE A MINIMUM OF 7 FT OF CLEARANCE OVER THE MEZZANINE MEASURED FROM THE MEZZANINE SURFACE TO HIGH HOOK HEIGHT.

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Seal:

Revisions:

Rev	Date	Description
1	4/22/22	ADDENDUM NO. 1

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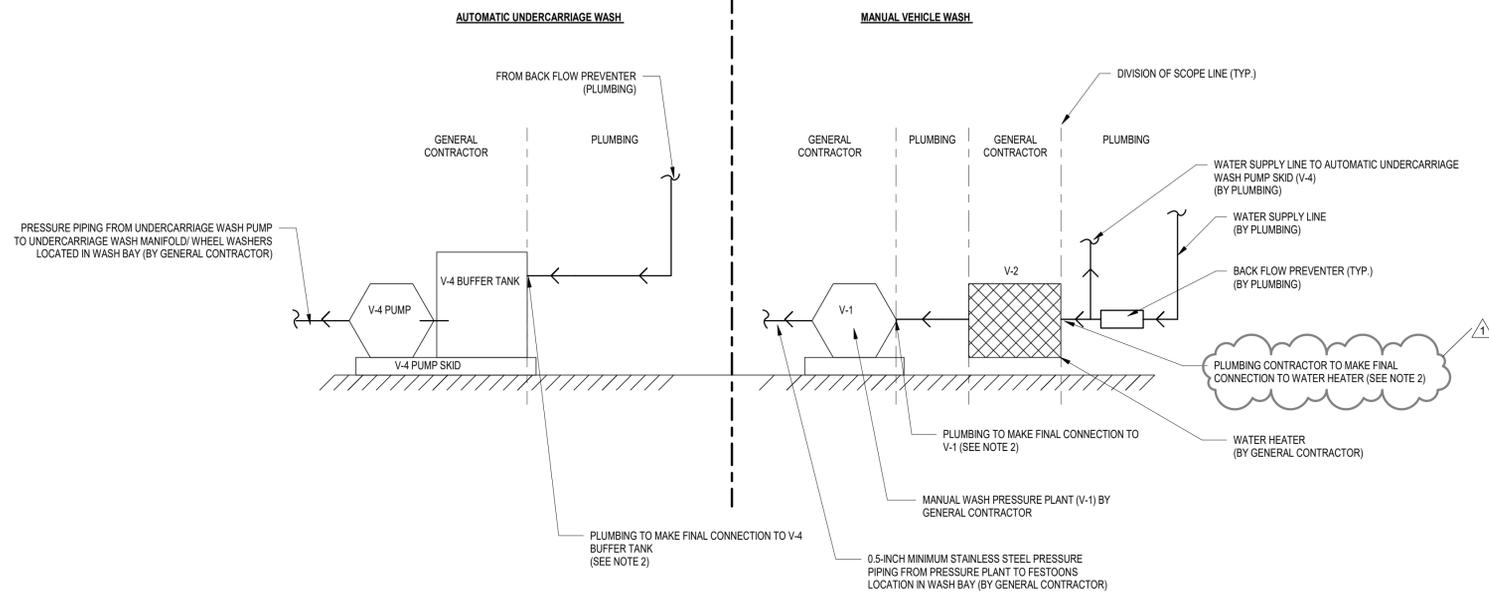
Date: APRIL 7, 2022  
Drawn By: NCH  
Reviewed By: TJC  
Approved By: Approver  
W&S Project No: ENG20-0501

Drawing Title:

DETAILS

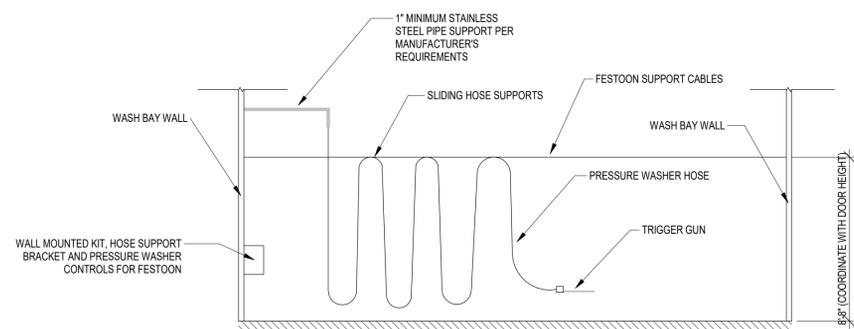
Sheet Number:

EQ102

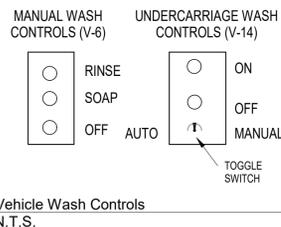


NOTE:  
 1. THIS DETAIL IS SCHEMATIC ONLY, AND NOT ALL COMPONENTS ARE SHOWN. THE GENERAL CONTRACTOR SHALL PROVIDE ALL VALVES, FITTINGS AND PIPING AS REQUIRED TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.  
 2. PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO PUMPS AND HOT WATER HEATER, COORDINATE FINAL CONNECTION REQUIREMENTS WITH VEHICLE WASH EQUIPMENT INSTALLER.

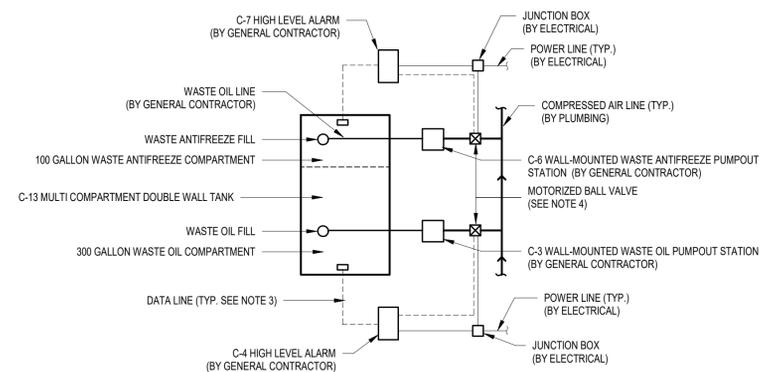
Vehicle Wash Equipment Room Coordination Schematic  
 N.T.S.



VEHICLE WASH HOSE FESTOON (TYP. 1 OF 2) (V-3)  
 N.T.S.

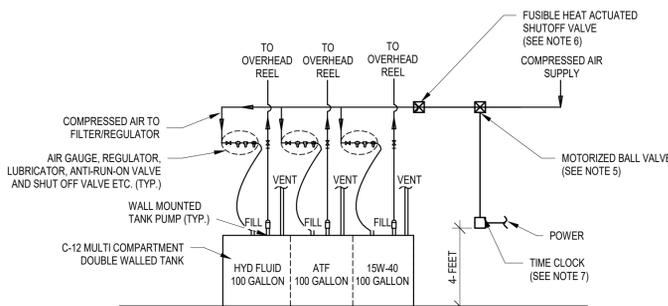


Vehicle Wash Controls  
 N.T.S.



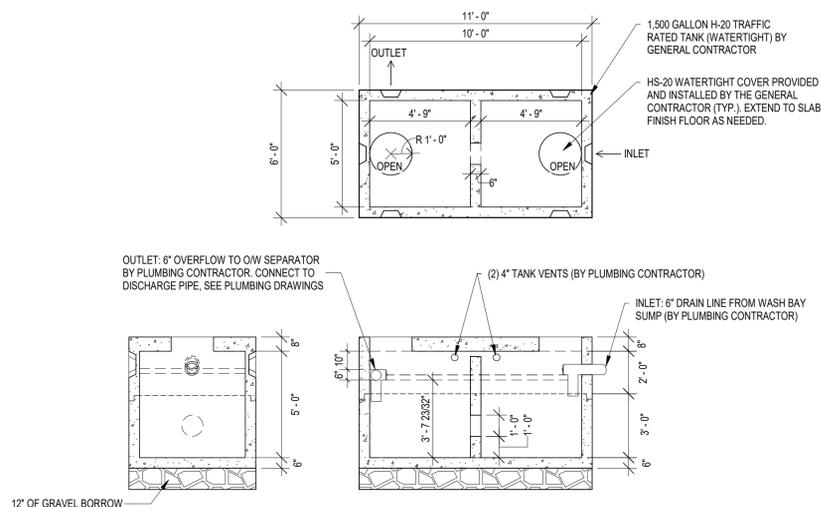
NOTE(S):  
 1. NOT ALL COMPONENTS OF PUMPING SYSTEM ARE SHOWN. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT/COMPONENTS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM, PER MANUFACTURER'S REQUIREMENTS.  
 2. HIGH LEVEL ALARM SHALL ACTIVATE THE MOTORIZED BALL VALVE TO SHUT OFF AIR SUPPLY TO PUMPOUT STATION WHEN THE WASTE OIL TANK REACHES 90% CAPACITY.  
 3. EMPTY 1" CONDUITS WITH PULL STRING SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. GENERAL CONTRACTOR SHALL PULL DATA WIRES.  
 4. MOTORIZED BALL VALVE SHALL BE SUPPLIED BY THE GENERAL CONTRACTOR AND SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR. POWER SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

WASTE OIL TANK SCHEMATIC PIPING ARRANGEMENT (ADD ALTERNATE #5)  
 N.T.S.



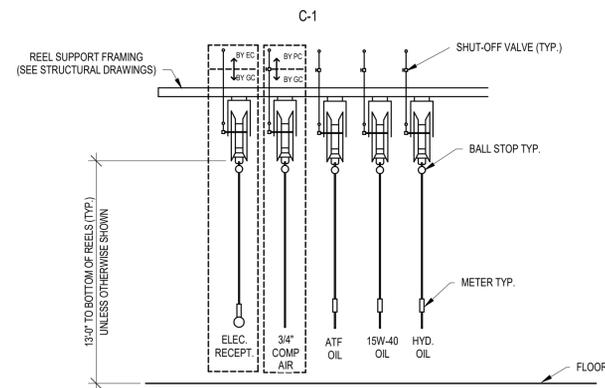
NOTE(S):  
 1. NOT ALL COMPONENTS OF PUMPING SYSTEM ARE SHOWN. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT/COMPONENTS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM, PER MANUFACTURER'S REQUIREMENTS.  
 2. COORDINATE TANK OPENINGS TO PROVIDE LAYOUT SHOWN.  
 3. TANKS VENT TO OUTSIDE AS SHOWN ON PLUMBING DRAWINGS.  
 4. WASTE OIL TANK SHALL BE PROVIDED WITH PUMP-OUT CAM-LOCK CONNECTIONS IN ACCORDANCE WITH SPECIFICATIONS.  
 5. MOTORIZED BALL VALVE SUPPLIED BY GENERAL CONTRACTOR AND INSTALLED BY PLUMBING. POWER PROVIDED BY ELECTRICAL.  
 6. HEAT ACTUATE SHUTOFF SUPPLIED BY GENERAL CONTRACTOR, INSTALLED BY PLUMBING.  
 7. TIME CLOCK PROVIDED BY GENERAL CONTRACTOR, INSTALLED BY ELECTRICAL. ELECTRICAL TO PROVIDE AN OVERRIDE SWITCH ADJACENT TO TIME CLOCK.  
 8. OWNER SHALL PROVIDE FLUIDS TO FILL LUBE TANKS, TO ALLOW GENERAL CONTRACTOR TO PRESSURIZE AND CALIBRATE SYSTEM.

GENERAL TANK PIPING ARRANGEMENT (ADD ALTERNATE #5)  
 N.T.S.

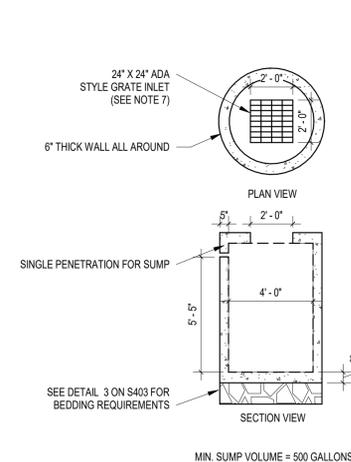


DESIGN NOTES:  
 1. CONCRETE 5000 PSI @ 28 DAYS  
 2. HS-20-44 LOADING WITH 12" TO 60" OF COVER  
 3. REINFORCING ASTM A615 GRADE 60  
 4. CONST. JOINT TO HAVE MIN. 1" BUTYL SEALANT

VEHICLE WASH PRE-TREATMENT TANK DETAIL (V-9) (BASE BID)  
 1/4" = 1'-0"



NOTE: CONTRACTOR SHALL PROVIDE SUPPLEMENTAL FRAMING/SUPPORTS AS NEEDED TO CONNECT TO REEL SUPPORT FRAMING  
 REEL BANK DETAIL (ADD ALTERNATE #5)  
 N.T.S.



FLUID STORAGE ROOM SUMP DETAIL (BASE BID)  
 N.T.S.

FLUID STORAGE ROOM SUMP NOTES:

- TANK SHALL HAVE A MINIMUM CAPACITY OF 500 GALLONS BELOW THE SUMP SENSOR PENETRATION.
- TANK SHALL BE LOCATED BENEATH THE FLUID STORAGE ROOM TO SERVE AS SECONDARY CONTAINMENT FOR THE FLUID STORAGE TANKS. THEREFORE THE TANK SHALL NOT HAVE ANY INLET OR OUTLETS BESIDES THE DRAIN INLET AT THE TOP OF THE TANK AND THE PENETRATION FOR THE SUMP SENSOR CONDUIT WHICH SHALL BE SEALED WATER TIGHT AND LOCATED AS HIGH UP ON THE TANK AS POSSIBLE.
- TANK SHALL BE INSTALLED PER DETAIL SHOWN ON THE STRUCTURAL DRAWINGS.
- CONCRETE SHALL HAVE 4,000 PSI. MINIMUM CEMENT PER ASTM C-478 (6.1)
- REINFORCED STEEL CONFORMS TO LATEST ASTM A 185 SPECIFICATIONS. 0.15 SQ. IN./LINEAL FT. AND 0.15 SQ. IN. (BOTH WAYS) BASE BOTTOM STEEL REINFORCEMENT TO MEET OR EXCEED AASHTO HS-20 LOADING.
- TANK SHALL BE SEALED INSIDE AND OUT WITH AQUA-SAFE CONCERTED SEALER AS MANUFACTURED BY BAY OIL COMPANY OR APPROVED EQUAL.
- SEE DETAIL 3 ON SHEET S403 FOR ADDITIONAL FRAME AND GRATE REQUIREMENTS.
- PRE-CAST CONCRETE TANK SHALL BE DESIGNED FOR H-20 WHEEL LOAD RATING AND ANTI-BUOYANCY WITH GROUNDWATER ASSUMED TO BE AT GRADE. PROVIDE ANTI-BUOYANCY CALCULATIONS STAMPED BY A NEW YORK PROFESSIONAL ENGINEER.
- BUTYL RUBBER JOINT SEALANT PER ASTM C-990 AASHTO M-198
- ONE POUR MONOLITHIC BASE
- THE FLUID STORAGE ROOM SUMP SHALL BE A 5FT DIAMETER CONCRETE PRECAST CATCH BASIN WITH NO OUTLET PIPE AS MANUFACTURED BY SITUATE RAY PRECAST OR APPROVED EQUAL

Seal:

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DETAILS II

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EQ103

Project:



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Seal:



Revisions:

Rev	Date	Description
1	4/22/22	ADDENDUM NO. 1

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Date:

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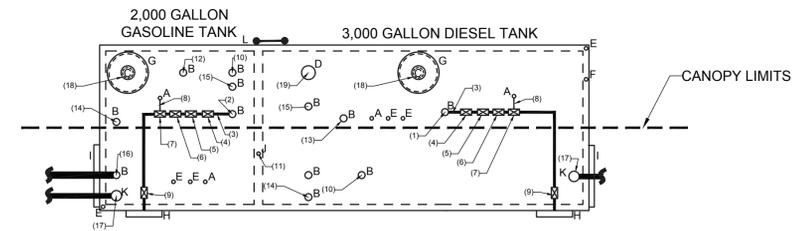
W&S Project No:

Drawing Title:

FUEL SYSTEM DETAILS II  
BID ALTERNATE 2

Sheet Number:

EQ203



LEGEND:

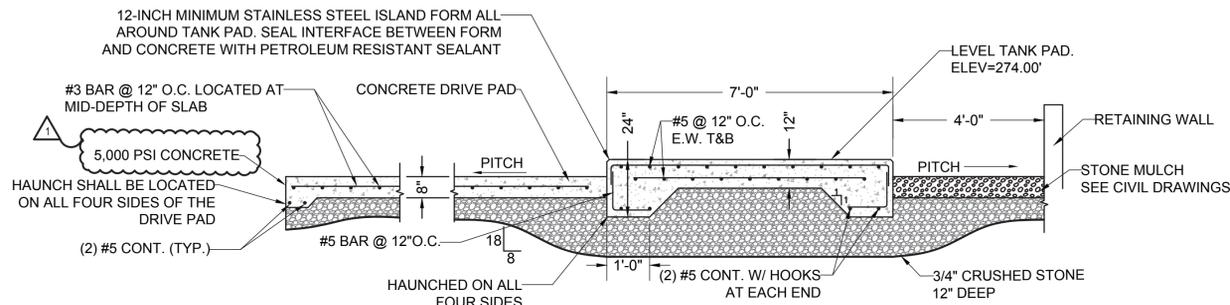
- A. 2" FEMALE FIREGUARD COUPLING
- B. 4" FEMALE FIREGUARD COUPLING
- C. 8" FFSO 150# FLANGE - PRIMARY EMERGENCY VENT USE ONLY
- D. 8" FFSO 150# FLANGE THROUGH OUTER SHELL ONLY. MARK WITH SPECIAL WARNING LABEL "INTERSTITIAL EMERGENCY VENT USE ONLY"
- E. 2" FITTING THROUGH OUTER SHELL ONLY WITH CAST IRON PLUG - FOR MFG USE ONLY
- F. 2" INTERSTITIAL MONITOR PIPE - MALE NPT END
- G. 24" TIGHT BOLT MANWAY WITH "C" MOUNTED IN COVER
- H. WAYNE S1 BRACKET
- I. PIPING SUPPORT BRACKET
- J. 2" INTERSTITIAL MONITOR PIPE - MALE NPT END - BULK HEAD MONITOR USE
- K. 6" FEMALE FIREGUARD COUPLING
- L. EXTERNAL TANK LADDER FOR MAINTENANCE ACCESS

NOTES:

1. SEE PIPING NOTES ON EQ202 FOR ADDITIONAL INFORMATION/REQUIREMENTS.
2. FINAL TANK FITTING LAYOUT AND QUANTITY TO BE ADJUSTED AS NEEDED AND CONFIRMED DURING THE SUBMITTAL PROCESS TO MEET THE DESIGN LAYOUT AND TO MEET MANUFACTURER AND CODE REQUIREMENTS.
3. TANK TOP PIPING SUPPORT BRACKETS (NOT SHOWN) SHALL BE INCLUDED TO SUPPORT DISPENSER PIPING AS NEEDED.

2 FUEL SYSTEM COMPONENT SCHEDULE

SCALE: N.T.S.

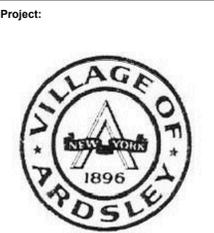


NOTES:

1. CONCRETE PADS SHALL BE 4,500 PSI AND COATED WITH SALT RESISTANT SEALANT AS SPECIFIED. SEE SECTION 03 30 00 - CAST IN PLACE CONCRETE.

1 CONCRETE FUELING PAD AND TANK PAD

SCALE: N.T.S.



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**Revisions:**

Rev	Date	Description
1	4/22/22	ADDENDUM NO. 1

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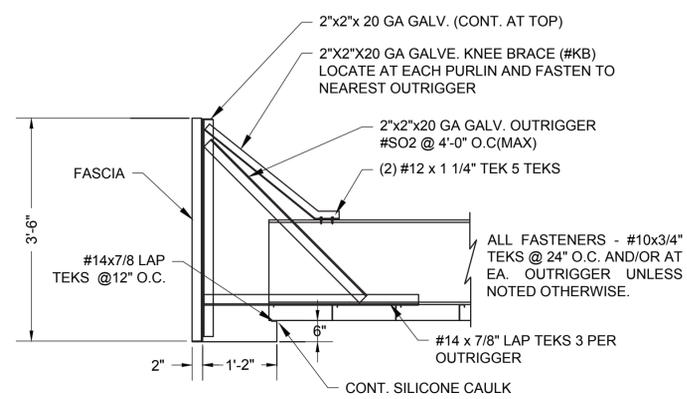
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**SCALE: AS NOTED**

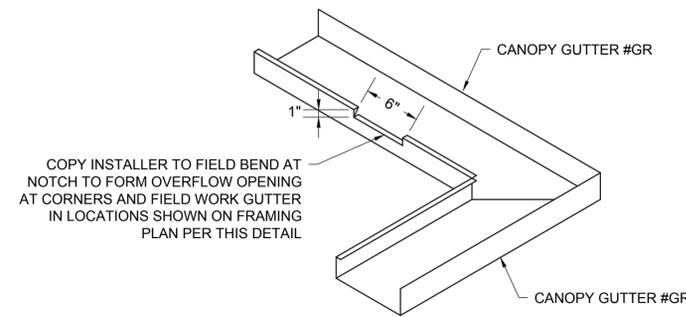
Date:  
 Drawn By: NCH  
 Reviewed By: TJC  
 Approved By: JFB  
 W&S Project No:

Drawing Title:  
 CANOPY DETAILS I  
 ADD ALTERNATE 2A

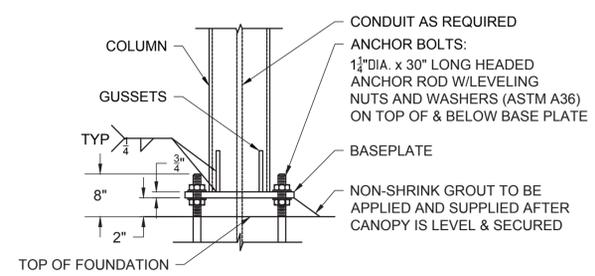
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**EQ204**



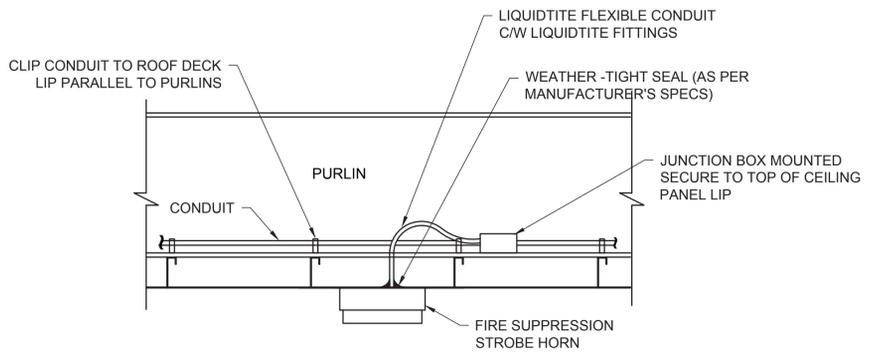
**1 FASCIA SECTION**  
 SCALE: N.T.S.



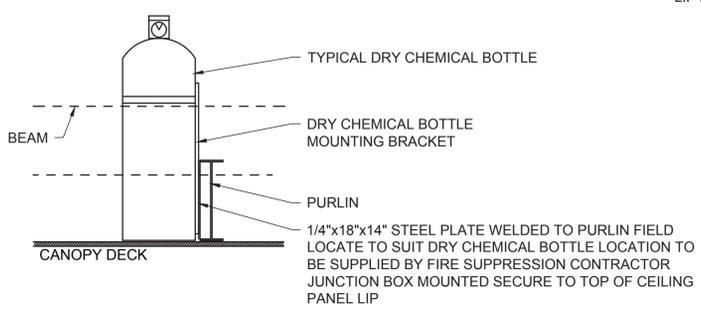
**2 SECONDARY DRAIN OVERFLOW DETAIL**  
 SCALE: N.T.S.



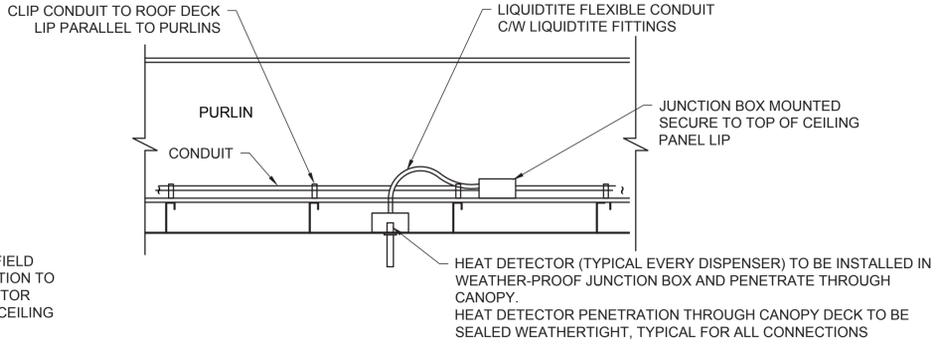
**3 BASE PLATE DETAIL (TYP. ALL COLUMNS)**  
 SCALE: N.T.S.



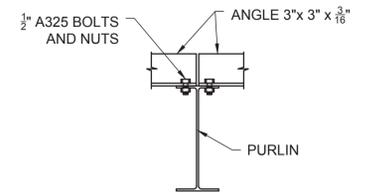
**4 TYPICAL FIRE SUPPRESSION STROBE / HORN ALARM**  
 SCALE: N.T.S.



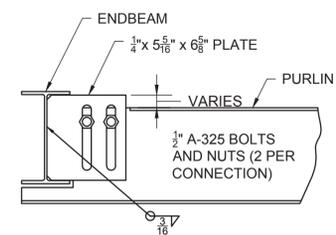
**5 DRY CHEMICAL BOTTLE MOUNTING DETAIL**  
 SCALE: N.T.S.



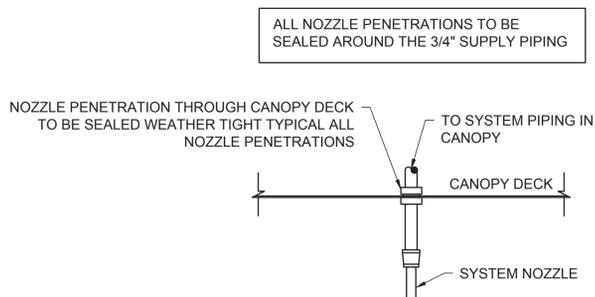
**6 TYPICAL HEAT DETECTOR CONNECTION DETAIL**  
 SCALE: N.T.S.



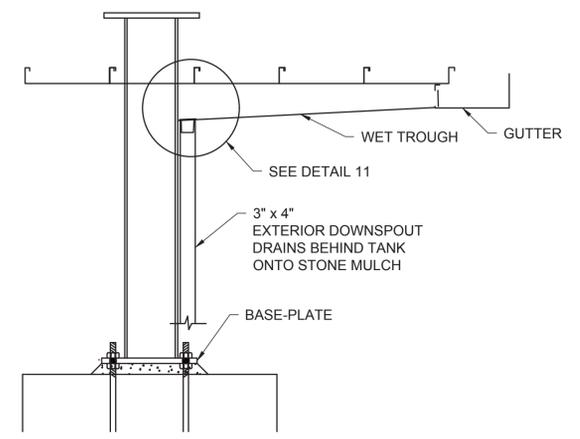
**7 ANGLE LATERAL BRACING**  
 SCALE: N.T.S.



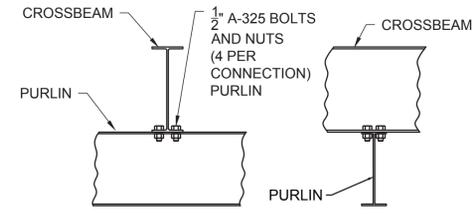
**8 ANGLE LATERAL BRACING**  
 SCALE: N.T.S.



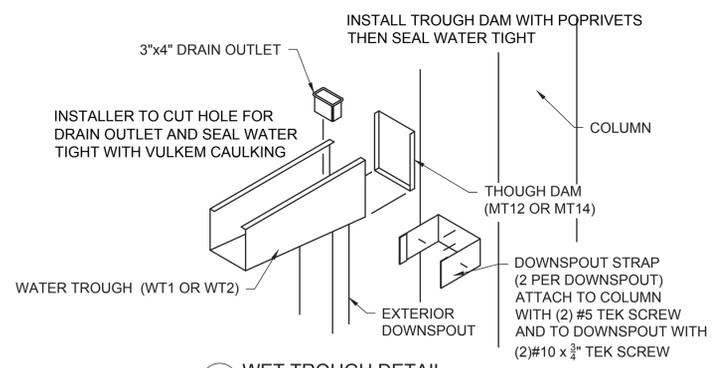
**9 NOZZLE ELEVATION**  
 SCALE: N.T.S.



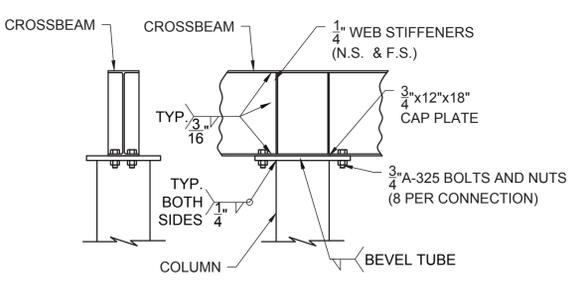
**13 EXTERIOR DRAIN DETAIL**  
 SCALE: N.T.S.



**10 CROSEEBEAM TO PURLIN CONNECTION**  
 SCALE: N.T.S.



**11 WET TROUGH DETAIL**  
 SCALE: N.T.S.

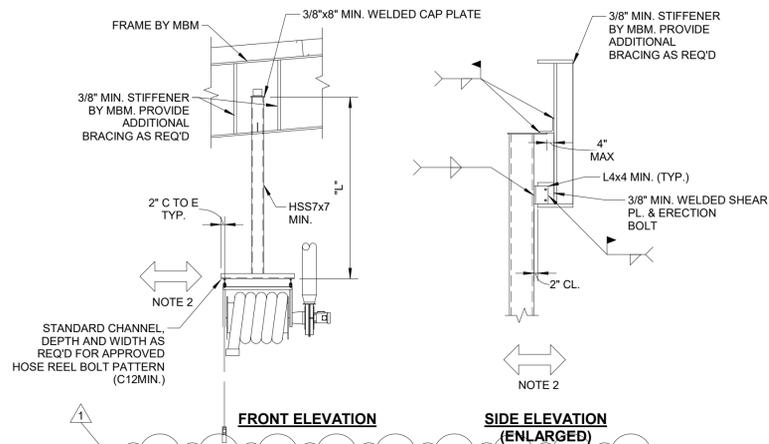


**12 CROSSBEAM TO COLUMN CONNECTION**  
 SCALE: N.T.S.

**GENERAL NOTES:**

1. DETAILS SHOWN ON THIS PAGE SHALL BE PART OF ADD ALTERNATE 2A
2. NOT ALL FOUNDATION COMPONENTS SHOWN FOR CLARITY. SEE DETAIL 5 ON EQ205

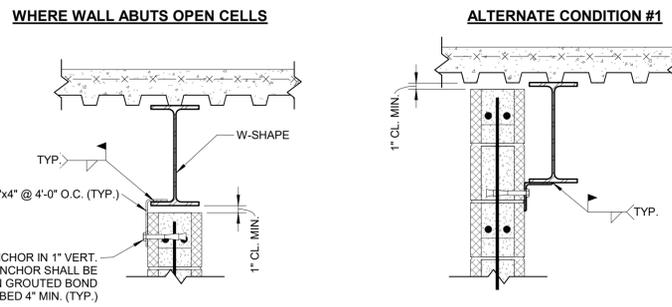
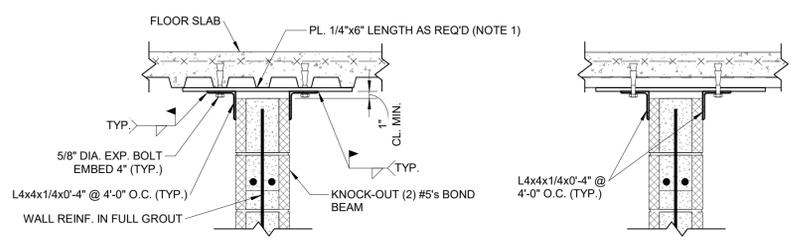




- NOTE(S):**
1. EXHAUST REEL SUPPORT SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK.
  2. COORDINATE SIZE AND LOCATION OF REELS WITH METAL BUILDING MANUFACTURER.
  3. CONNECTION AT FRAMES SHALL BE DESIGNED BY BUILDING MANUFACTURER AND SUBCONTRACTOR TO SAFELY SUPPORT FRAME AND REEL DEAD LOAD IN ADDITION TO 200 LB IN ANY DIRECTION AT LOCATIONS SHOWN ABOVE. MAXIMUM ALLOWABLE LATERAL DEFLECTION SHALL BE L/360 AT BASE OF SUPPORT.
  4. COORDINATE HEIGHT REQUIREMENTS WITH EQUIPMENT DRAWINGS.

**1 EXHAUST REEL SUPPORT**

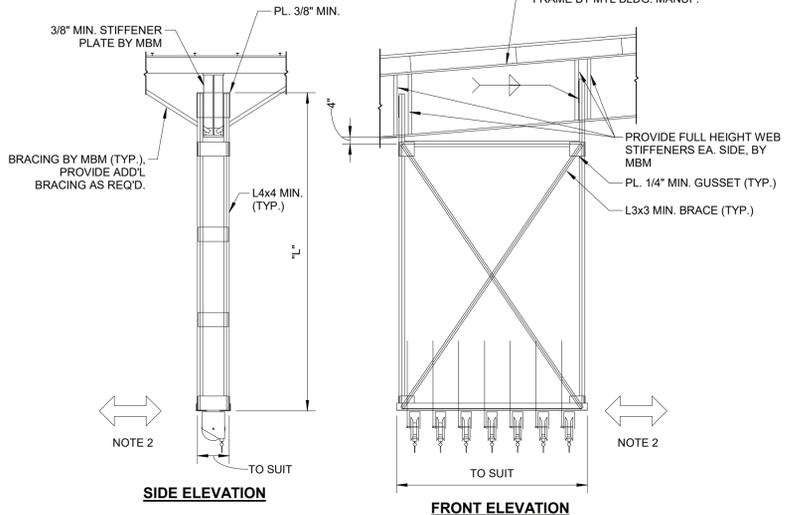
SCALE: 1/4" = 1'-0"



- NOTE(S):**
1. WHERE RIBS ARE IN FULL CONTACT WITH RESTRAINING ANGLES THE PLATE MAY BE OMITTED.

**3 MASONRY PARTITION BRACING DETAILS**

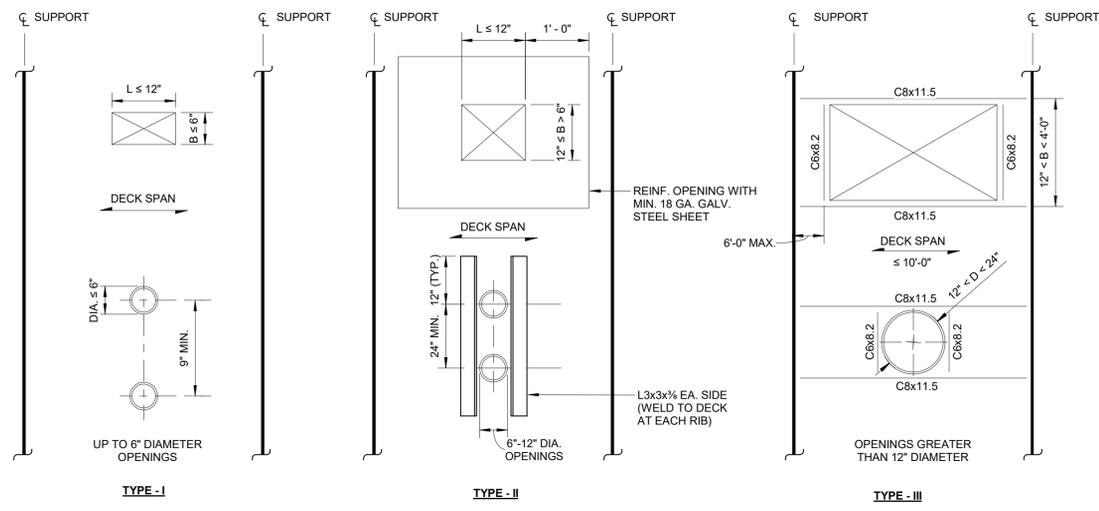
SCALE: 1" = 1'-0"



- NOTE(S):**
1. HOSE REEL SUPPORT SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK.
  2. COORDINATE SIZE AND LOCATION OF REELS WITH METAL BUILDING MANUFACTURER.
  3. CONNECTION AT FRAMES SHALL BE DESIGNED BY BUILDING MANUFACTURER AND SUBCONTRACTOR TO SAFELY SUPPORT FRAME AND REEL DEAD LOAD IN ADDITION TO 200 LB IN ANY DIRECTION AT LOCATIONS SHOWN ABOVE. MAXIMUM ALLOWABLE LATERAL DEFLECTION SHALL BE L/360 AT BASE OF SUPPORT.
  4. COORDINATE HEIGHT REQUIREMENTS WITH EQUIPMENT DRAWINGS.

**2 HOSE REEL SUPPORT**

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



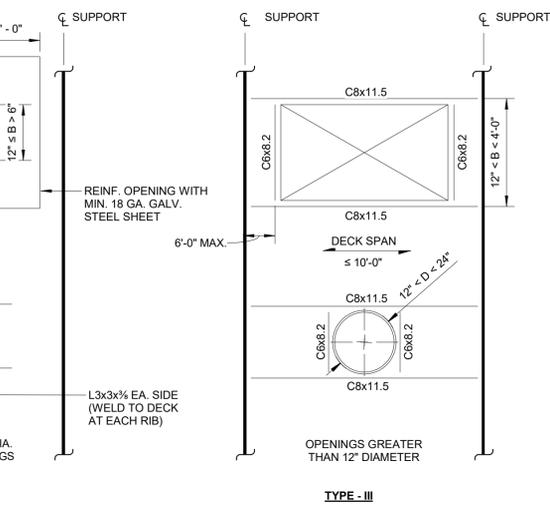
- NOTE:** NO REINF. REQUIRED FOR OPENINGS. (METAL DECK CONTRACTOR SHALL PROVIDE DECK CLOSURE @ ALL PIPE CHASES.)
- NOTE:** REINF. OPENING WITH MIN. 18 GA. GALV. STEEL SHEET 12" OR GREATER ON ALL SIDES OF OPENING. OR: REINF. OPENING WITH L3x3x3/8 EA. SIDE OF OPENING PERPENDICULAR TO DECK SPAN AND EXTENDING 12" BEYOND OPENING EA. END.
- NOTE:** OPENINGS OUTSIDE THE LIMITS ABOVE SHALL BE FRAMED WITH STRUCTURAL STEEL. OPENING SIZES AND LOCATIONS TO BE SUBMITTED TO THE STRUCTURAL ENGINEER

**6 TYPICAL FRAMING DETAILS AT COMPOSITE DECK OPENINGS**

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

**4 OVERHEAD DOOR SUPPORT DETAIL**

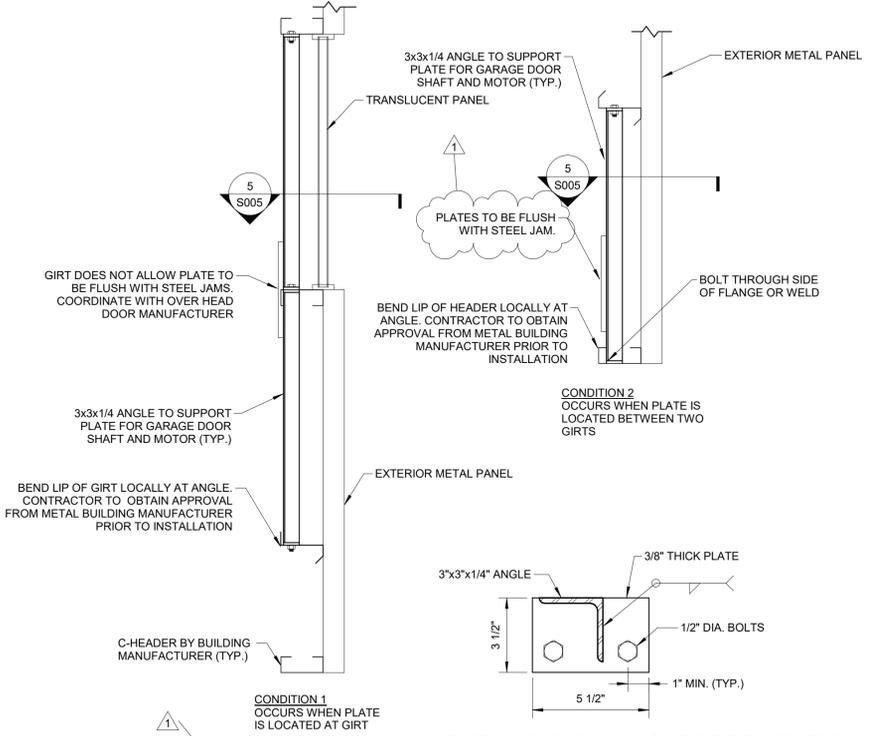
SCALE: 3/4" = 1'-0"



- NOTE(S):**
1. METAL BUILDING DESIGNER SHALL DESIGN GIRTS TO SUPPORT OVERHEAD DOORS AND SUPPLEMENTAL FRAMING

**5 OVERHEAD DOOR SUPPORT SECTION**

SCALE: 3" = 1'-0"



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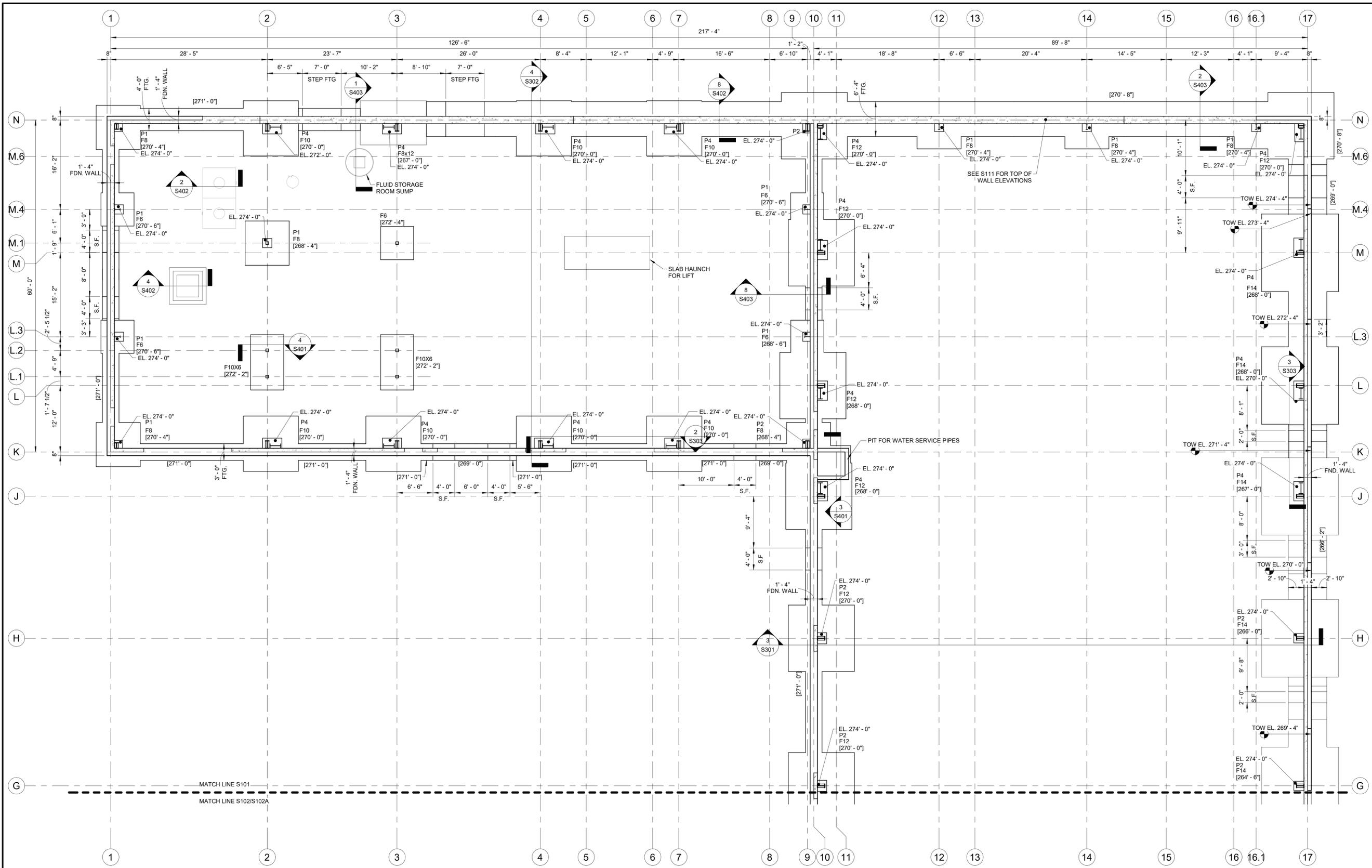
Issued For: BID  
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W&S Project No: ENG20-0501

Drawing Title:  
**TYPICAL DETAILS III**  
Sheet Number:  
**S005**

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Reviewed By: NMS

Approved By: JFB

W&S Project No: ENG20-0501

Drawing Title:  
**FOUNDATION PLAN A**

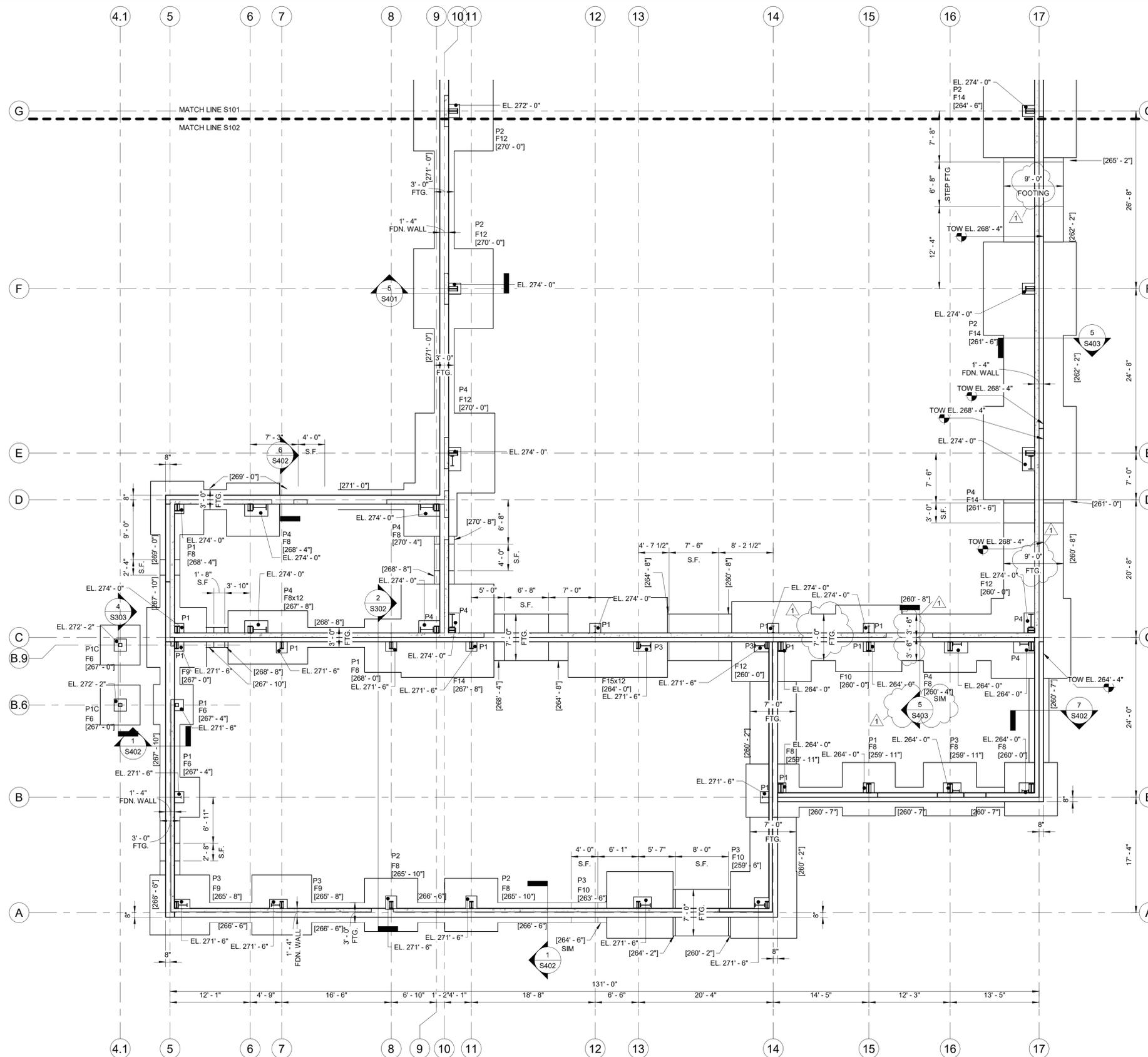
Sheet Number:  
**S101**

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- NOTES:
- COORDINATE ALL WORK (INCLUDING FLOOR ELEVATIONS, DIMENSIONS, FINISH DETAILS, PENETRATIONS, ETC.) WITH THE ARCHITECTURAL DRAWINGS.
  - XXX-XXI INDICATES BOTTOM OF FOOTING ELEVATION. ALL EXTERIOR FOOTINGS SHALL BE LOCATED A MINIMUM OF 4'-0" BELOW FINISH GRADE.
  - F# - INDICATES NEW CONCRETE FOOTING TYPE. SEE "FOOTING SCHEDULE" ON SHEET S401.
  - P# - INDICATES NEW CONCRETE PIER TYPE. SEE "PIER SCHEDULE" ON SHEET S401.
  - VEHICLE LIFT LOCATIONS SHALL BE COORDINATED WITH EQUIPMENT DRAWINGS AND APPROVED SHOP DRAWINGS.
  - S.F. INDICATES STEP FOOTING. SEE DETAILS ON S002.

**1 SHOPS/STORAGE/ADMIN FOUNDATION PLAN A**  
 SCALE: 1/8" = 1'-0"

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- NOTES:**
- COORDINATE ALL WORK (INCLUDING FLOOR ELEVATIONS, DIMENSIONS, FINISH DETAILS, PENETRATIONS, ETC.) WITH THE ARCHITECTURAL DRAWINGS.
  - (XX'XX') INDICATES BOTTOM OF FOOTING ELEVATION. ALL EXTERIOR FOOTINGS SHALL BE LOCATED A MINIMUM OF 4'-0" BELOW FINISH GRADE.
  - F# - INDICATES NEW CONCRETE FOOTING TYPE. SEE "FOOTING SCHEDULE" ON SHEET S401.
  - P# - INDICATES NEW CONCRETE PIER TYPE. SEE "PIER SCHEDULE" ON SHEET S401.
  - VEHICLE LIFT LOCATIONS SHALL BE COORDINATED WITH EQUIPMENT DRAWINGS AND APPROVED SHOP DRAWINGS.
  - S.F. INDICATES STEP FOOTING. SEE DETAILS ON S002.

**1 MAINT/STORAGE FOUNDATION PLAN B**  
SCALE: 1/8" = 1'-0"

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Approved By: JFB

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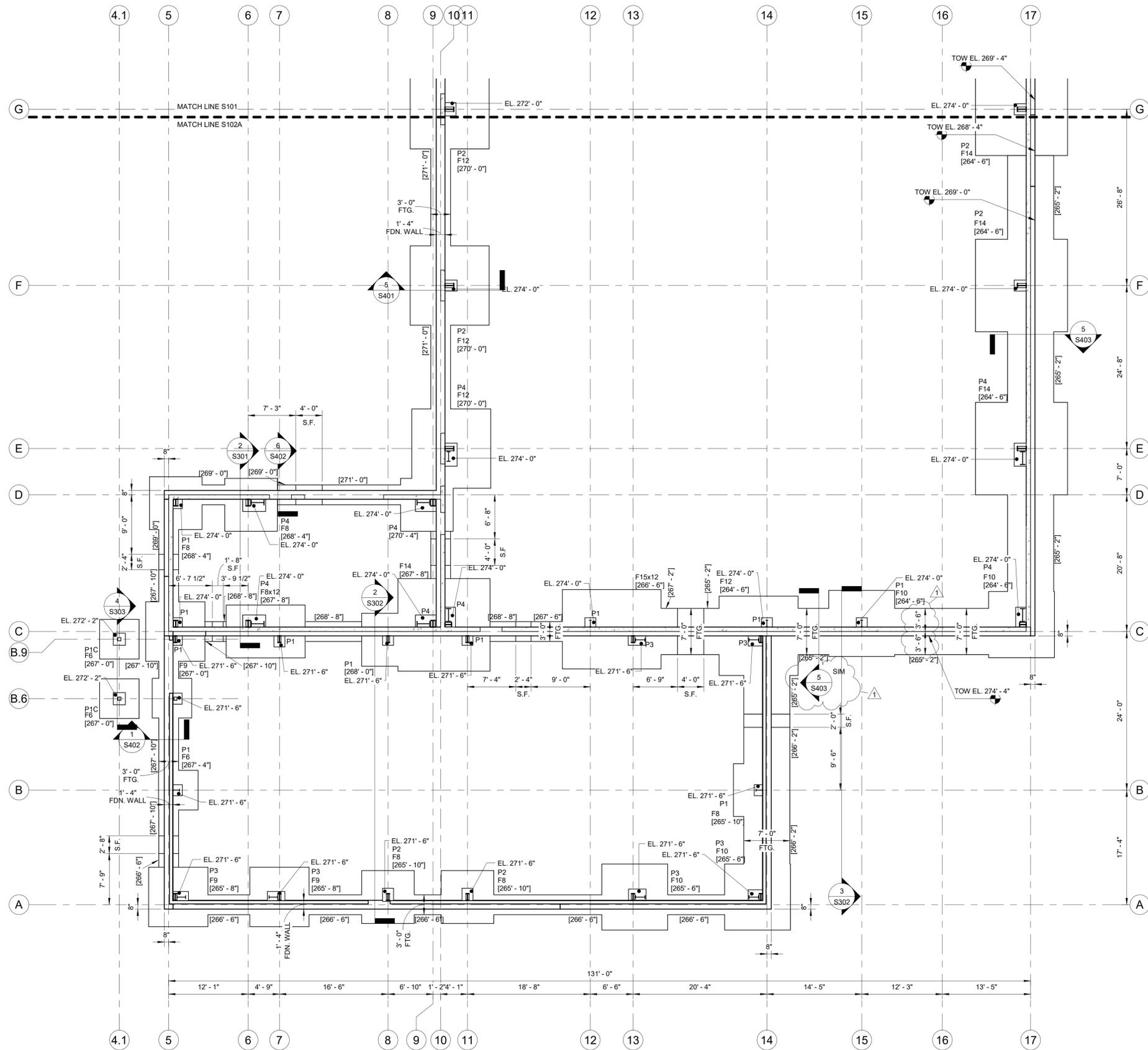
Drawing Title:

**FOUNDATION  
PLAN B**

Sheet Number:

**S102**

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- NOTES:**
- COORDINATE ALL WORK (INCLUDING FLOOR ELEVATIONS, DIMENSIONS, FINISH DETAILS, PENETRATIONS, ETC.) WITH THE ARCHITECTURAL DRAWINGS.
  - ["X'-X'"] INDICATES BOTTOM OF FOOTING ELEVATION. ALL EXTERIOR FOOTINGS SHALL BE LOCATED A MINIMUM OF 4'-0" BELOW FINISH GRADE.
  - F# - INDICATES NEW CONCRETE FOOTING TYPE. SEE "FOOTING SCHEDULE" ON SHEET S401.
  - P# - INDICATES NEW CONCRETE PIER TYPE. SEE "PIER SCHEDULE" ON SHEET S401.
  - VEHICLE LIFT LOCATIONS SHALL BE COORDINATED WITH EQUIPMENT DRAWINGS AND APPROVED SHOP DRAWINGS.
  - S.F. INDICATES STEP FOOTING. SEE DETAILS ON S302.

**1 MAINT/STORAGE FOUNDATION PLAN B - ALT #3**  
SCALE: 1/8" = 1'-0"

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Approved By: JFB

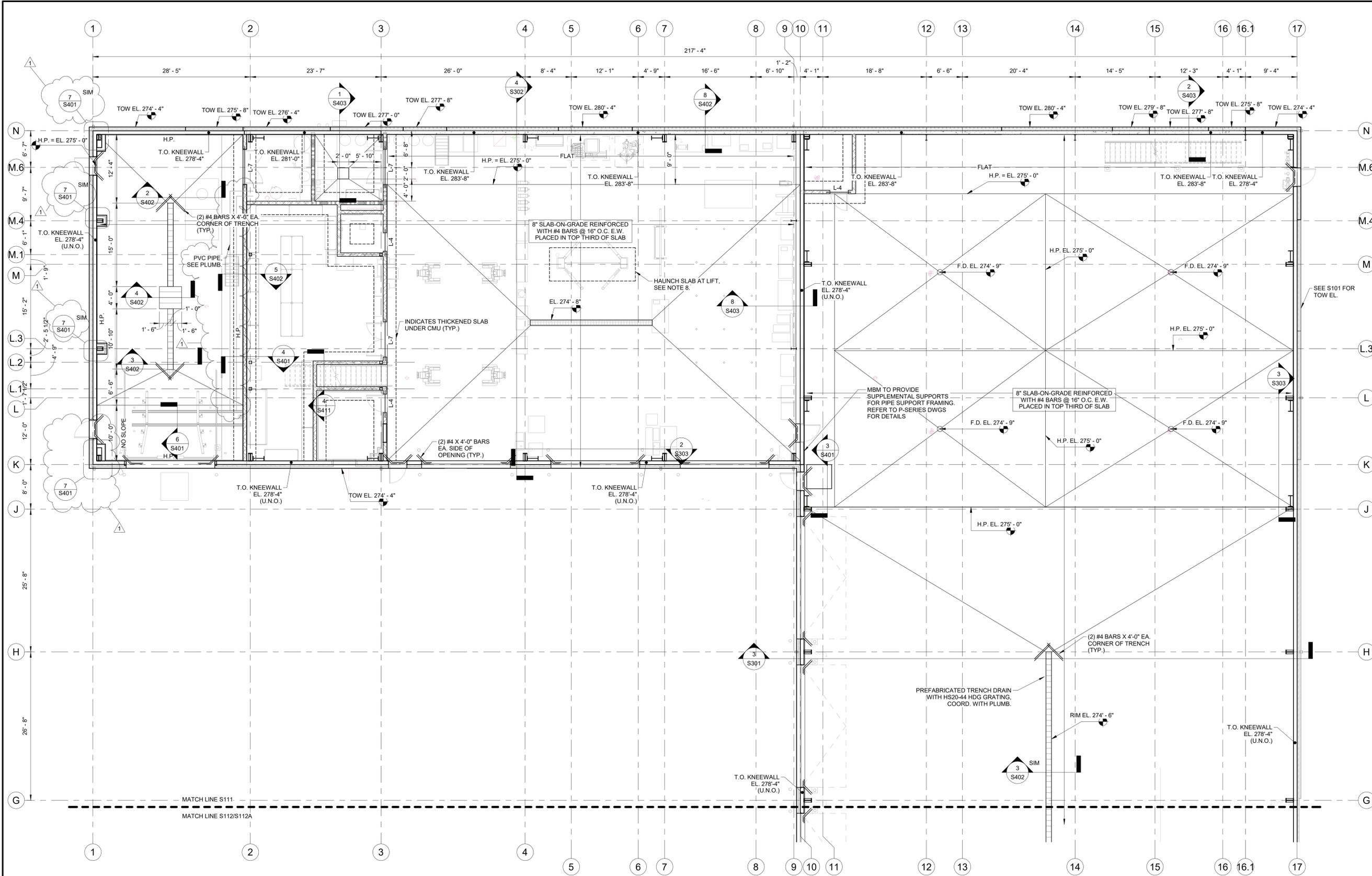
W&S Project No: ENG20-0501

Drawing Title:

FOUNDATION  
PLAN B - ALT #3

Sheet Number:

**S102A**



1 MAINT/STORAGE SLAB PLAN A  
SCALE: 1/8" = 1'-0"

- NOTES:**
- COORDINATE ALL WORK (INCLUDING, BUT NOT LIMITED TO, FLOOR ELEVATIONS, DIMENSIONS, FINISH DETAILS, PENETRATIONS, ETC.) WITH ARCHITECTURE, CIVIL/SITE, HVAC, EQUIPMENT AND PLUMBING DRAWINGS.
  - F.D. INDICATES FLOOR DRAIN LOCATIONS. COORDINATE WITH PLUMBING.
  - H.P. DESIGNATES HIGH POINTS IN SLAB AT ELEVATION INDICATED. SLOPE SLAB FROM H.P. TO DRAINS. MAXIMUM SLOPE TO DRAIN IN VEHICLE MAINTENANCE AND SHOPS BAYS SHALL BE 1/8" PER FOOT.
  - COORDINATE MASONRY WALL LOCATIONS AND WALL OPENINGS (DOORS, VENTS, WINDOWS, ETC.) WITH ARCHITECTURE AND MEP DRAWINGS.
  - LOCATIONS OF CONSTRUCTION JOINTS AND SAW JOINTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO GENERAL NOTES FOR SPACING REQUIREMENTS. SUBMIT JOINT LOCATIONS TO THE ENGINEER FOR APPROVAL. REFER TO S003 FOR TYPICAL DETAILS.
  - COORDINATE ALL NON-STRUCTURAL WALLS WITH ARCHITECTURE FOR WALL TYPE AND LOCATIONS.
  - L-# INDICATES CONCRETE MASONRY UNIT (CMU) LINTEL TYPE. REFER TO CMU LINTEL SCHEDULE ON S004 FOR LINTEL INFORMATION. STEEL LINTELS SHALL NOT BE USED IN INTERIOR CONCRETE MASONRY WALLS UNLESS NOTED OTHERWISE ON THE PLANS.
  - COORDINATE LOCATIONS AND DIMENSIONS OF HAUNCHED SLAB WITH APPROVED SHOP DRAWINGS AND LIFT MANUFACTURER. HAUNCH SLAB TO 12" DEPTH. PROVIDE #4 @ 6" BOTH WAYS AT BOTTOM OF SLAB IN THESE LOCATIONS. SLAB REINFORCEMENT TO CONTINUE THROUGH THIS SECTION.

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W&S Project No: ENG20-0501

Drawing Title:

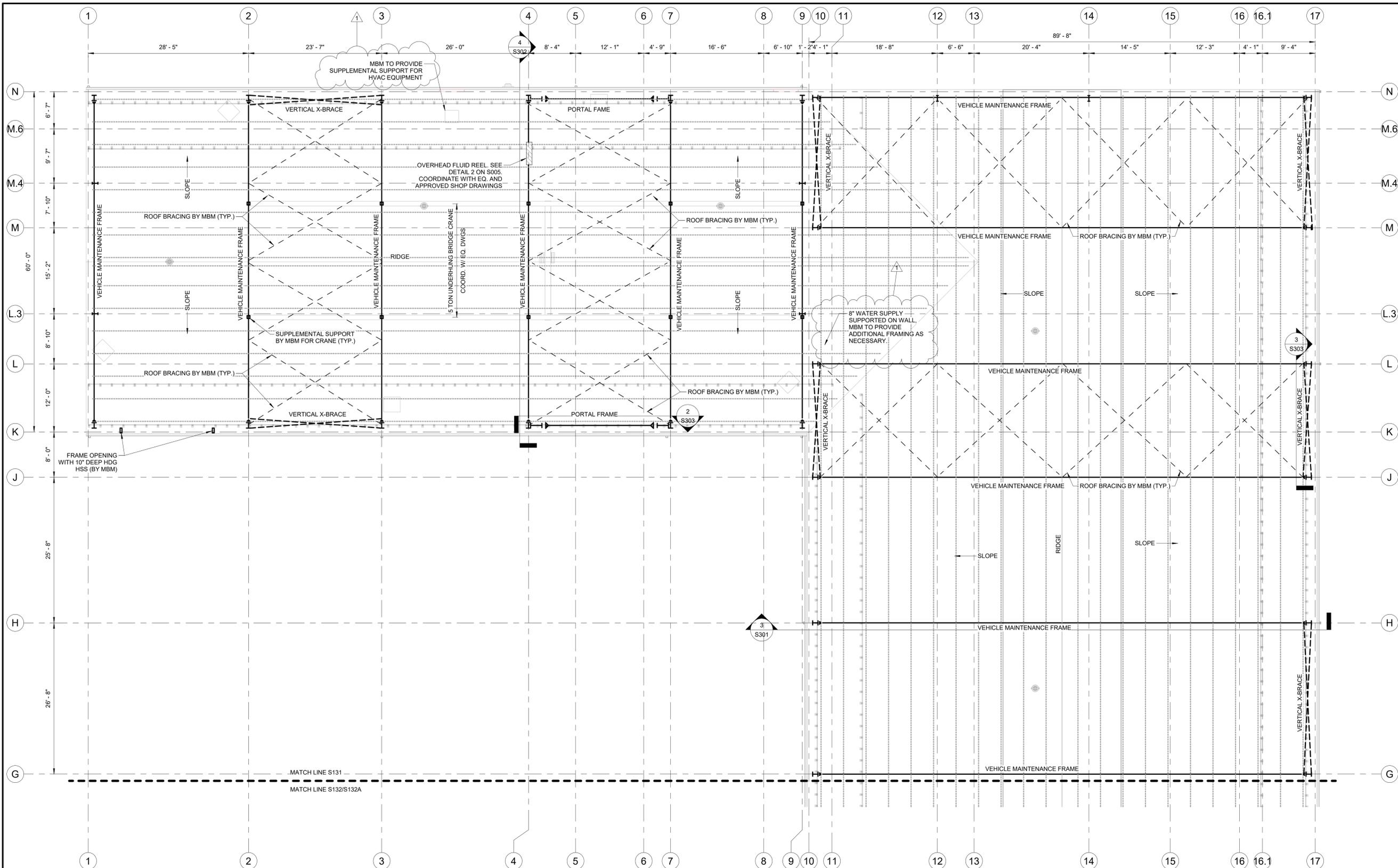
SLAB PLAN A

Sheet Number:

S111

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**1 ROOF FRAMING PLAN A**  
SCALE: 1/8" = 1'-0"

- NOTES:**
1. >>> INDICATES PROPOSED BRACING LOCATIONS. MBM TO SUBMIT FINAL BRACING LOCATIONS TO ENGINEER FOR REVIEW.
  2. MBM TO PROVIDE ALL SUPPLEMENTAL SUPPORT/FRAMING FOR ROOF OPENINGS, ROOFTOP EQUIPMENT, ROOF SUSPENDED EQUIPMENT AND ROOF PENETRATIONS AS REQUIRED. NOT ALL SUPPLEMENTAL SUPPORT/FRAMING SHOWN ON DRAWINGS. COORDINATE QUANTITIES, WEIGHTS, AND LOCATIONS WITH ARCHITECTURAL, HVAC, PLUMBING, MECHANICAL, ELECTRICAL AND EQUIPMENT DRAWINGS.
  3. ROOF PURLINS ARE SHOWN IN SCHEMATIC ONLY. QUANTITY, SPACING, LOCATIONS AND DIMENSIONS OF ROOF PURLINS SHALL BE DESIGNED AND FURNISHED BY METAL BUILDING MANUFACTURER.
  4. ALL STEEL HARDWARE LOCATED IN THE WASH BAY AND CANOPY SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM 125, ASTM 153, AND ASTM A663 G 185 (AS APPLICABLE).
  5. MBM TO PROVIDE FRAMING MEMBERS TO SUPPORT EXTERIOR COLD-FORMED METAL FRAMING.

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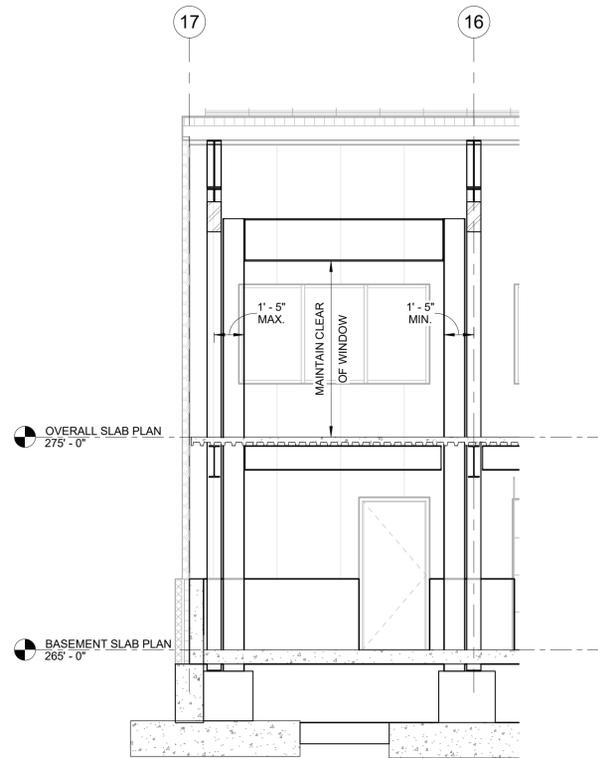
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**ROOF FRAMING  
PLAN A**

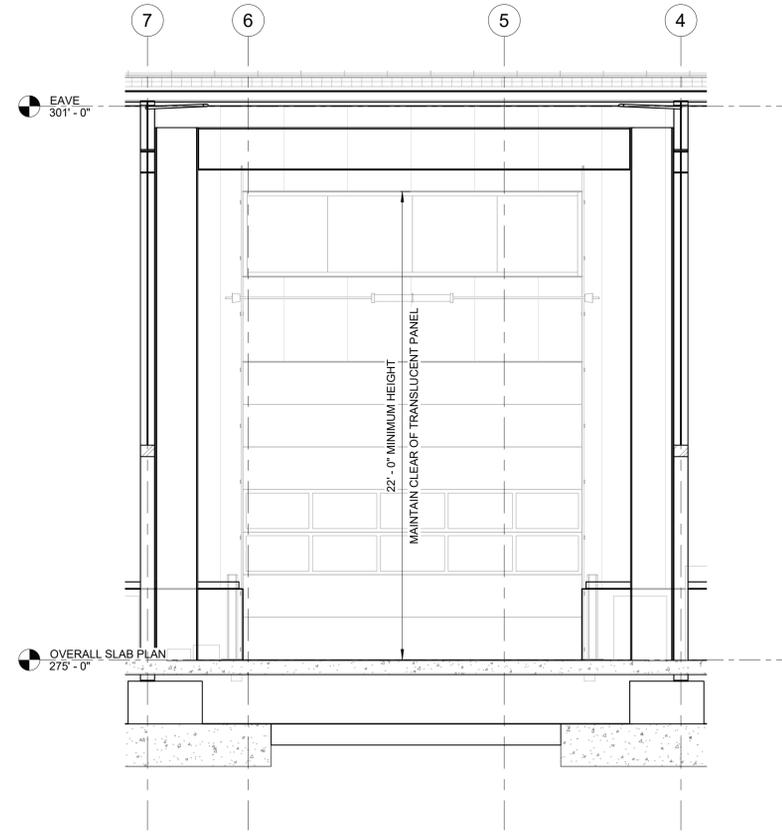
Sheet Number:

**S131**

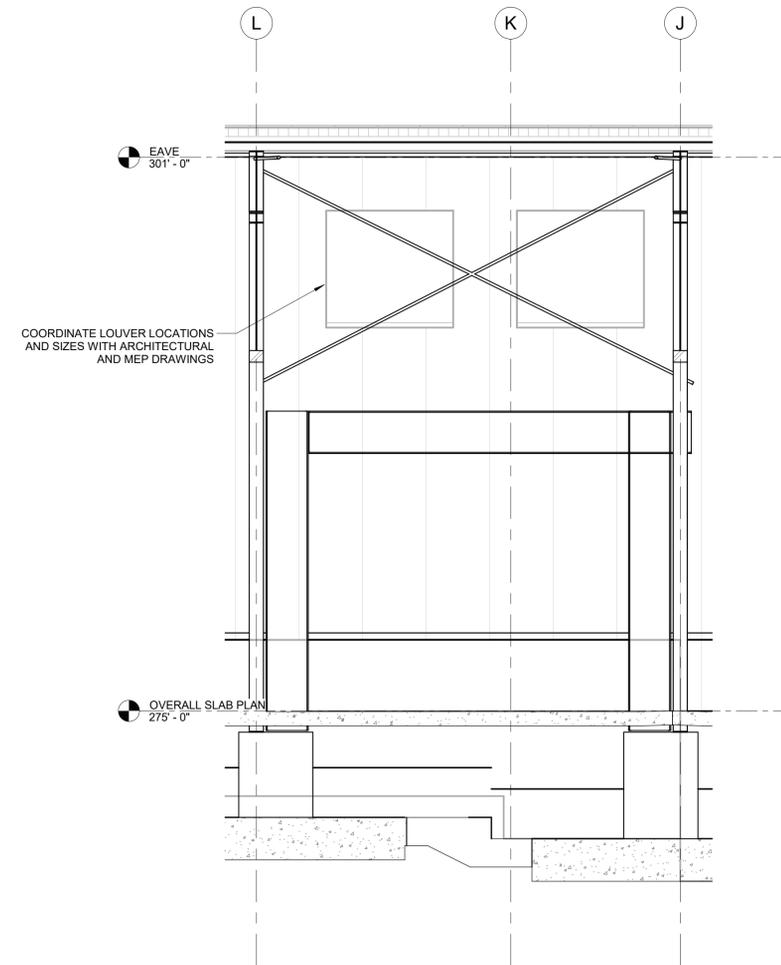
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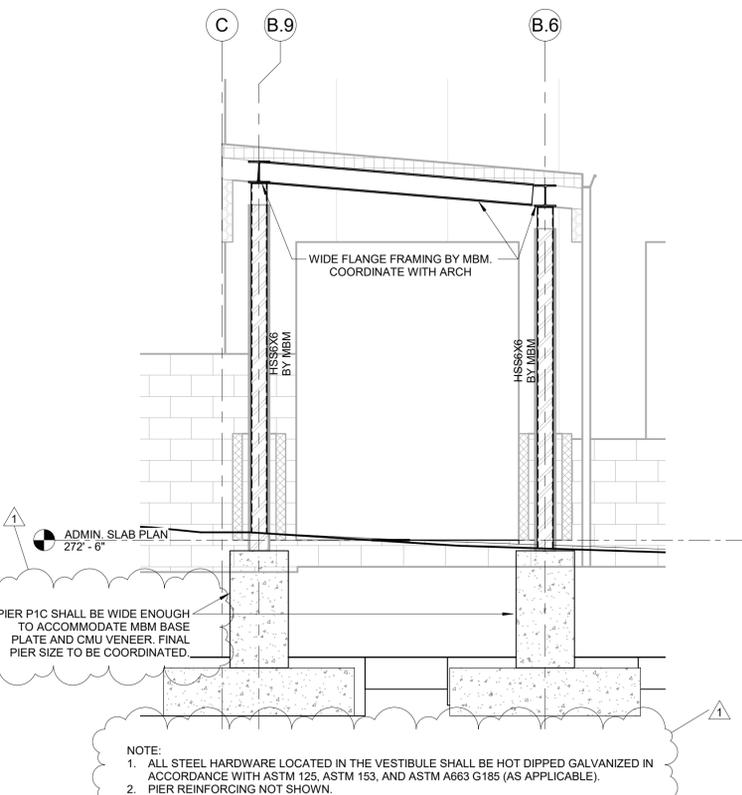
**1 PORTAL FRAME ELEVATION @ SHOP/STORAGE**  
SCALE: 1/4" = 1'-0"



**2 PORTAL FRAME ELEVATION @ VEHICLE MAINT.**  
SCALE: 1/4" = 1'-0"



**3 TYP. PORTAL FRAME ELEVATION @ VEHICLE STORAGE**  
SCALE: 1/4" = 1'-0"



**4 SECTION I @ VESTIBULE**  
SCALE: 3/8" = 1'-0"

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W&S Project No: ENG20-0501

Drawing Title:

**TYPICAL FRAME  
ELEVATIONS II**

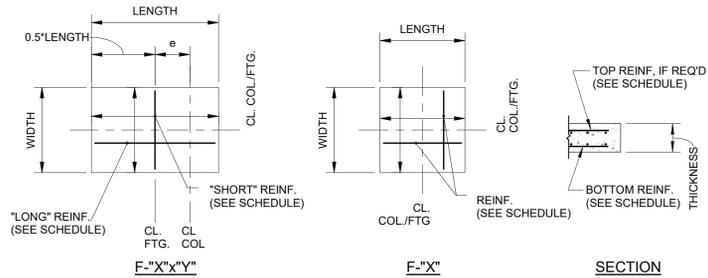
Sheet Number:

**S303**

MARK	DIMENSIONS			REINFORCEMENT		TOP
	WIDTH [FT.]	LENGTH [FT.]	THICKNESS [IN.]	LONG WAY	SHORT WAY	REINFORCEMENT
F6	6.0	6.0	18	(7) #5	(7) #5	#5 @ 12" O.C.
F10x6	6.0	10.0	20	(7) #5	(11) #8	#5 @ 12" O.C.
F8	8.0	8.0	20	(9) #7	(9) #7	#5 @ 12" O.C.
F9	9.0	9.0	22	(10) #7	(10) #7	#5 @ 12" O.C.
F10	10.0	10.0	24	(11) #8	(11) #8	#5 @ 12" O.C.
F8x12	12.0	8.0	24	(9) #7	(13) #8	#5 @ 12" O.C.
F12	12.0	12.0	24	(13) #8	(13) #8	#5 @ 12" O.C.
F14	14.0	14.0	24	(15) #8	(15) #8	#5 @ 12" O.C.
F15x12	15.0	12.0	24	(13) #8	(16) #8	#5 @ 12" O.C.

**FOOTING NOTE(S):**

- SQUARE FOOTINGS SHALL BE CENTERED BELOW COLUMNS U.N.O.
- RECTANGULAR FOOTINGS SHALL BE ORIENTED AS SHOWN IN PLAN, U.N.O.
- FOOTING SIZES ARE FOR BID PURPOSES ONLY. SIZES WILL BE VERIFIED UPON APPROVAL OF METAL BUILDING SHOP DRAWINGS. FOOTINGS SHALL NOT BE CAST UNTIL METAL BUILDING SHOP DRAWINGS ARE APPROVED AND FOOTING SIZES ARE VERIFIED BY THE ENGINEER.
- WHERE FOOTING INTERSECT IN PLAN, FOOTING SHALL BE CAST INTEGRAL WITH THE REINFORCING AS SPECIFIED IN THE TABLE ABOVE.



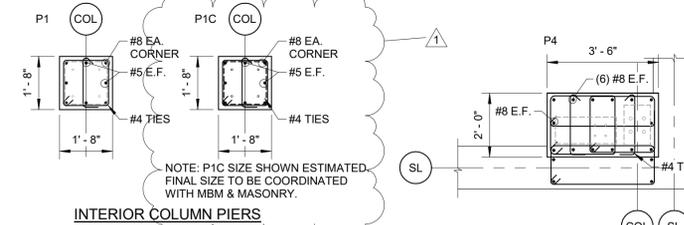
**1 FOOTING SCHEDULE (METAL BUILDING)**

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

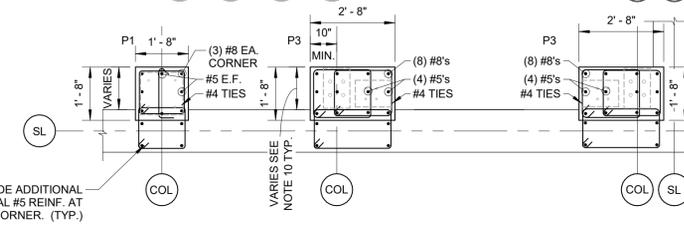
MARK	DIMENSIONS		T.O. PIER	REINFORCEMENT		COMMENTS
	WIDTH [IN.]	LENGTH [IN.]	ELEVATION	VERTICAL	TIES	
P1	20	20	-1'-0"	(4) #8'S, (4) #5'S	#4 @ 12" O.C.	(6) #4 TIES IN TOP 12"
P2	20	24	-1'-0"	(6) #8'S, (2) #5'S	#4 @ 12" O.C.	(6) #4 TIES IN TOP 12"
P3	20	32	-1'-0"	(8) #8'S, (4) #5'S	#4 @ 12" O.C.	(6) #4 TIES IN TOP 12"
P4	24	42	-1'-0"	(14) #8'S	#4 @ 12" O.C.	(6) #4 TIES IN TOP 12"

**NOTE(S):**

- FINAL LOCATIONS OF PIERS SHALL BE COORDINATED WITH APPROVED METAL BUILDING SHOP DRAWINGS. PIERS SHALL BE CENTERED BELOW COLUMN SECTION AT THE BASE PLATE LEVEL.
- METAL BUILDING BASE PLATES SHALL BE DESIGNED TO FIT ON AND WITHIN PIER DIMENSIONS SHOWN ABOVE. ANY PIER MODIFICATIONS WILL BE AT COST OF THE CONTRACTOR. THE CONTRACTOR SHALL IDENTIFY ANY PIERS REQUIRING MODIFICATIONS AND SUBMIT TO THE ENGINEER FOR REVIEW.
- ANCHOR RODS SHALL RESIDE WITHIN REINFORCING TIES AND SHALL BE A MINIMUM OF 7x BOLT DIAMETER FROM EDGE OF PLASTER / FOUNDATION. FINAL ANCHOR BOLT LAYOUT BY METAL BUILDING MANUFACTURER. SEE ANCHOR BOLT SCHEDULE ON S003 FOR REQUIRED EMBEDMENT DEPTHS. CONTRACTOR/MBM SHALL IDENTIFY PIERS WHERE THIS CRITERIA IS NOT MET.
- PROVIDE INVERTED #6 U-BARS TO MATCH VERTICAL REINFORCING. VERTICAL LEG TO BE 36" LONG OR FULL DEPTH OF PIER, WHICHEVER IS LESS.
- WALL REINFORCING SHALL PASS CONTINUOUSLY THROUGH THE PIER.
- TIES SHALL BE #4 @ 12" VERTICALLY WITH 6 TIES LOCATED WITHIN THE TOP 12" ON THE PIER, UNLESS OTHERWISE NOTED.
- PEDESTALS ARE DEFINED AS SET INTEGRAL WITH A WALL, PIERS ARE PEDESTALS WHICH STAND ALONE.
- PIERS SUPPORTING PORTAL FRAMES ARE TURNED 90 DEGREES IN PLAN. SEE PLAN FOR REQUIRED ORIENTATIONS.
- MEZZANINE COLUMNS MAY BE OFF-SET FROM THE FOUNDATION WALL AS APPROVED BY THE ENGINEER TO ACCOMMODATE FRAMING REQUIREMENTS.
- CENTER PIER BENEATH BASEPLATE. PIER OVERLAP WITH FOUNDATION WALL MAY VARY BASED ON BASEPLATE LOCATION. PIER REINFORCING MUST BE CENTERED UNDER BASEPLATE AND MEET COVER REQUIREMENTS ON S001.
- T.O. PIER ELEVATION INDICATES RELATIVE ELEVATION TO TOP OF CONCRETE SLAB.



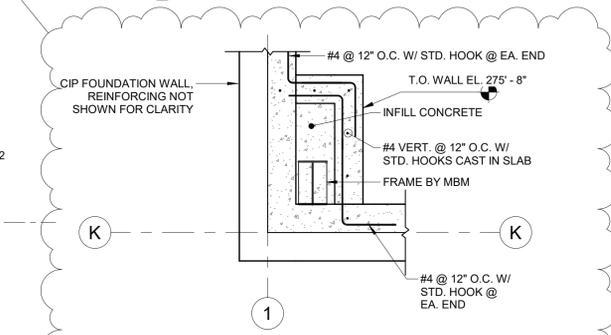
**INTERIOR COLUMN PIERS**



**EXTERIOR COLUMN PIERS**

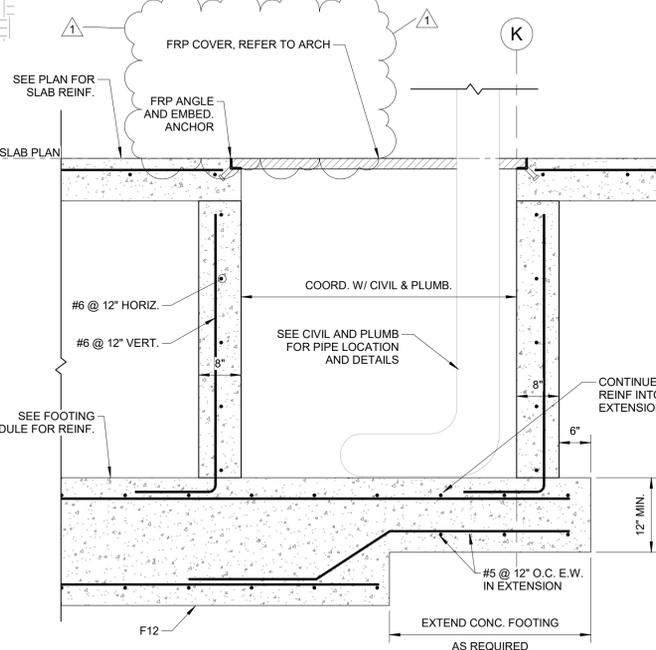
**2 PIER DETAIL (METAL BUILDING)**

SCALE: 3/8" = 1'-0"



**7 TYP. WASH BAY CURB PLAN DETAIL**

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

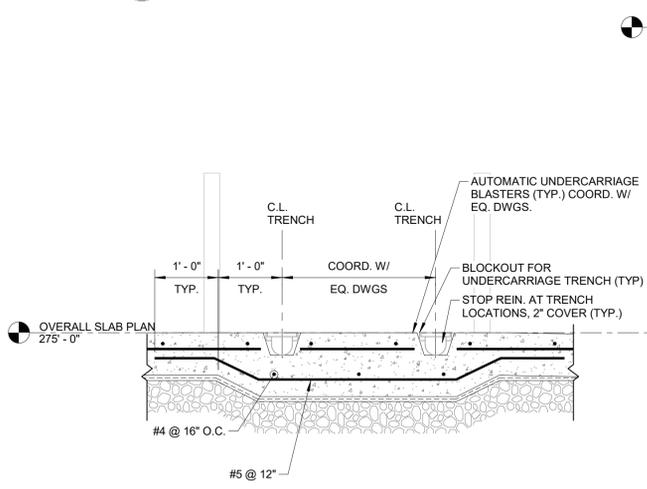


**3 FOUNDATION SECTION @ WATER MAIN PIT**

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

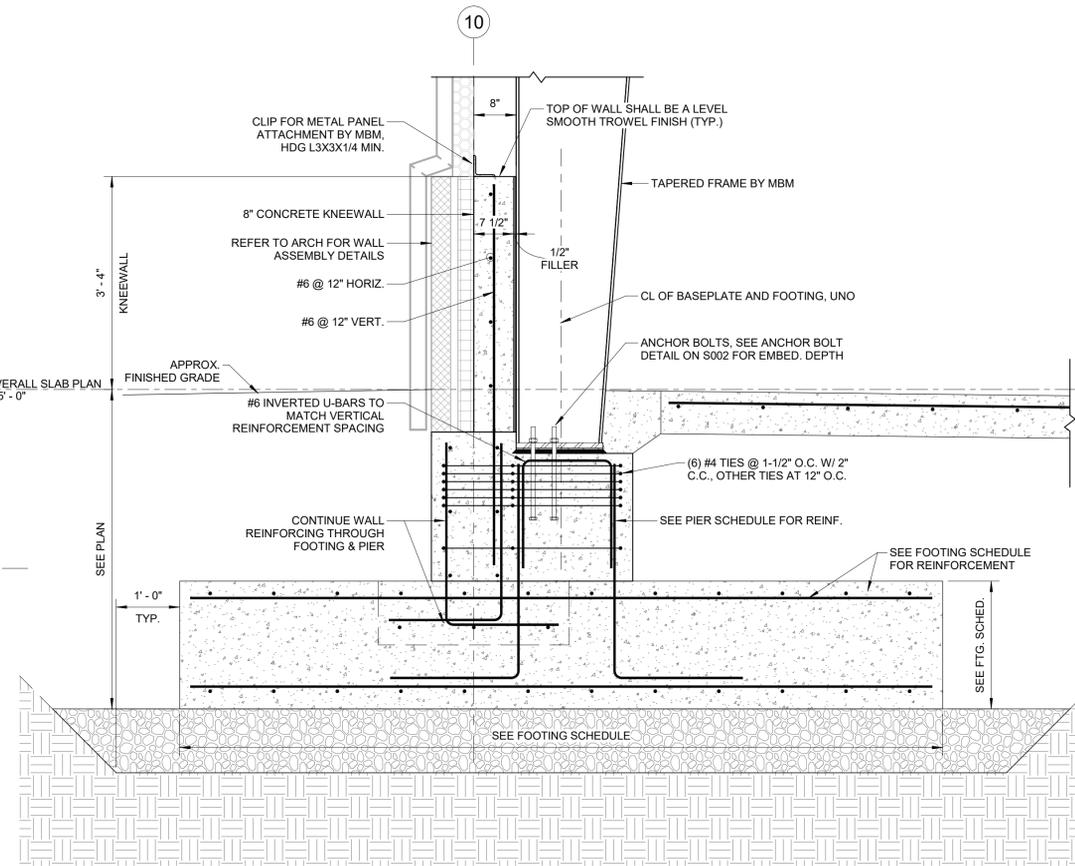
**4 SECTION @ INTERIOR ISOLATED FOOTING**

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



**6 SECTION @ UNDERCARRIAGE WASH**

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



**5 TYPICAL SECTION @ PIER**

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

**FOR BIDDING  
NOT FOR CONSTRUCTION**

Revisions:

Rev	Date	Description
1	4/22/22	ADDENDUM NO. 1

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Drawn By: BUD/SAC

Reviewed By: NMS

Approved By: JFB

W&S Project No: ENG20-0501

Drawing Title:

**FOUNDATION  
SECTIONS &  
DETAILS I**

Sheet Number:

**S401**

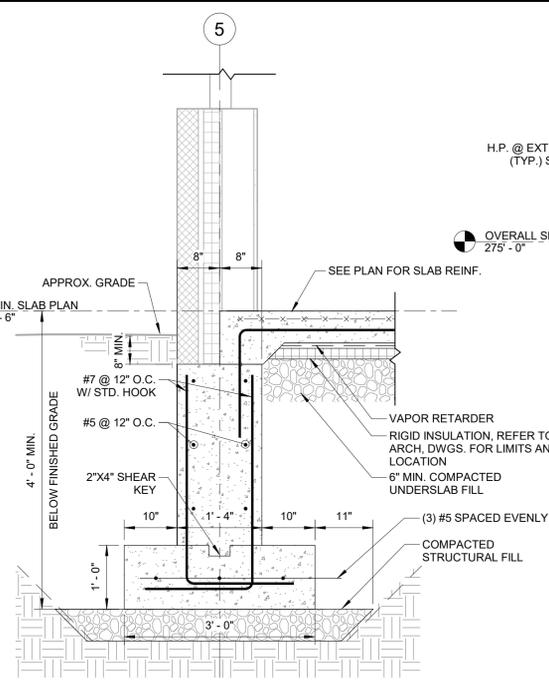
Revisions:

Rev	Date	Description
1	4/22/22	ADDENDUM NO. 1

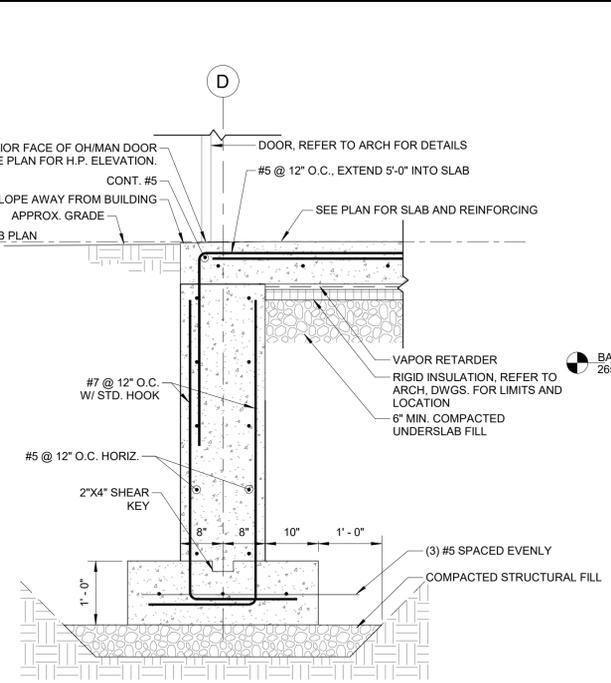
Issued For: BID  


SCALE: AS NOTED  
 Date: APRIL 7, 2022  
 Drawn By: BUD/SAC  
 Reviewed By: NMS  
 Approved By: JFB  
 W&S Project No: ENG20-0501

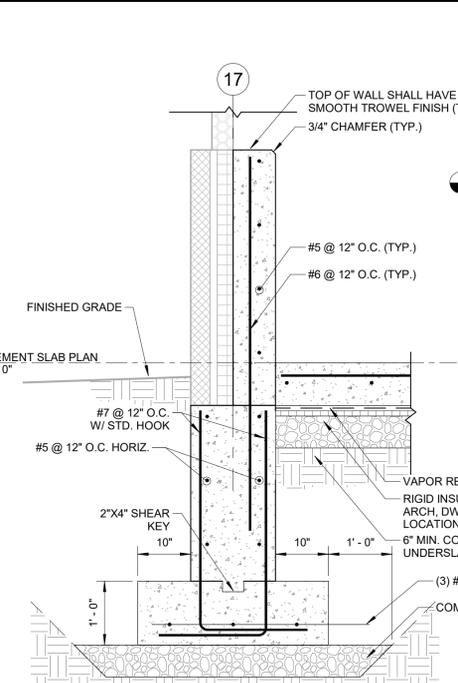
Drawing Title:  
**FOUNDATION SECTIONS & DETAILS II**  
 Sheet Number:  
**S402**  
WESTON & SAMPSON COPYRIGHT 2019



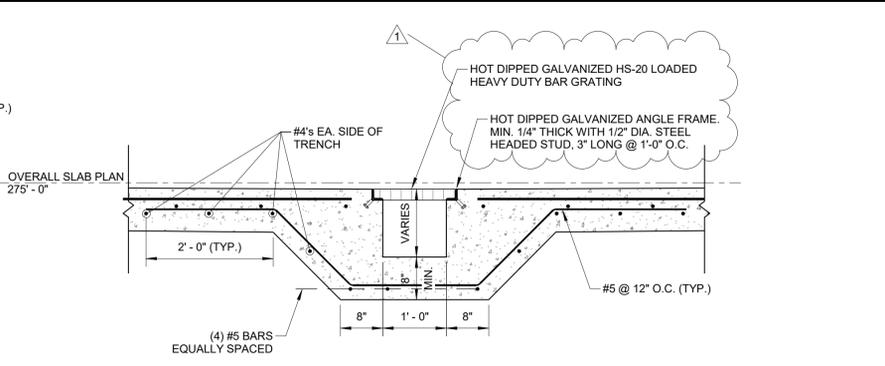
**1 SECTION @ ADMINISTRATION**  
 SCALE: 3/4" = 1'-0"



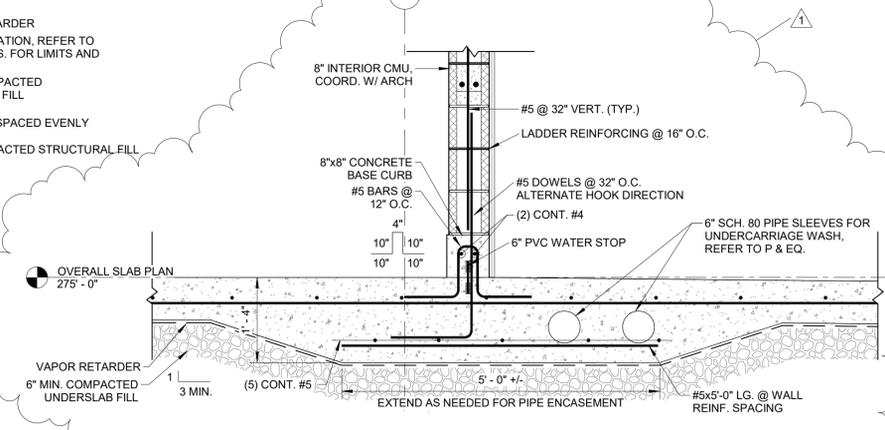
**6 TYP FOUNDATION SECTION @ DOOR**  
 SCALE: 3/4" = 1'-0"



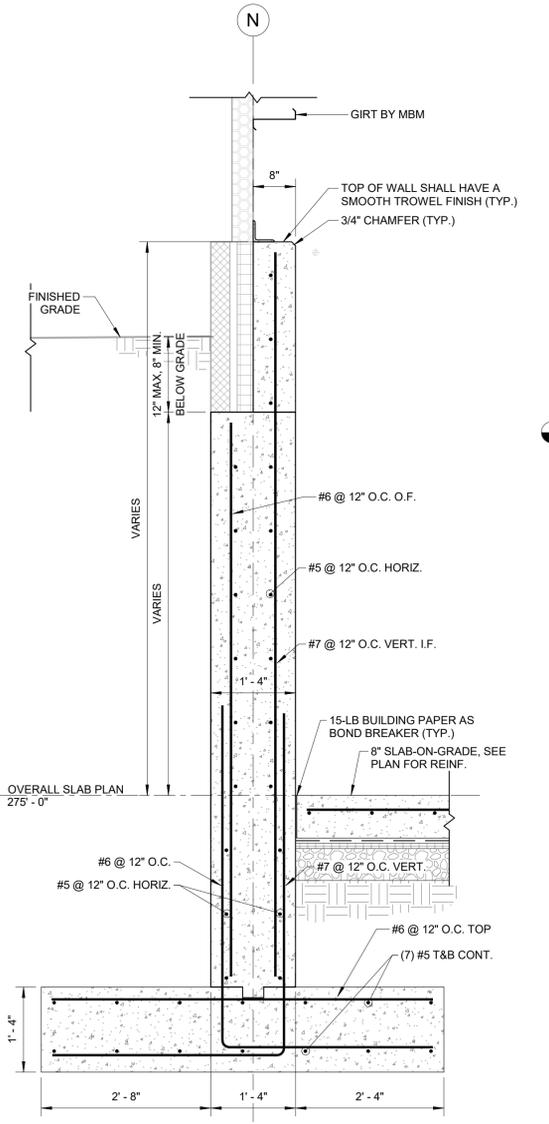
**7 FOUNDATION SECTION @ BASEMENT**  
 SCALE: 3/4" = 1'-0"



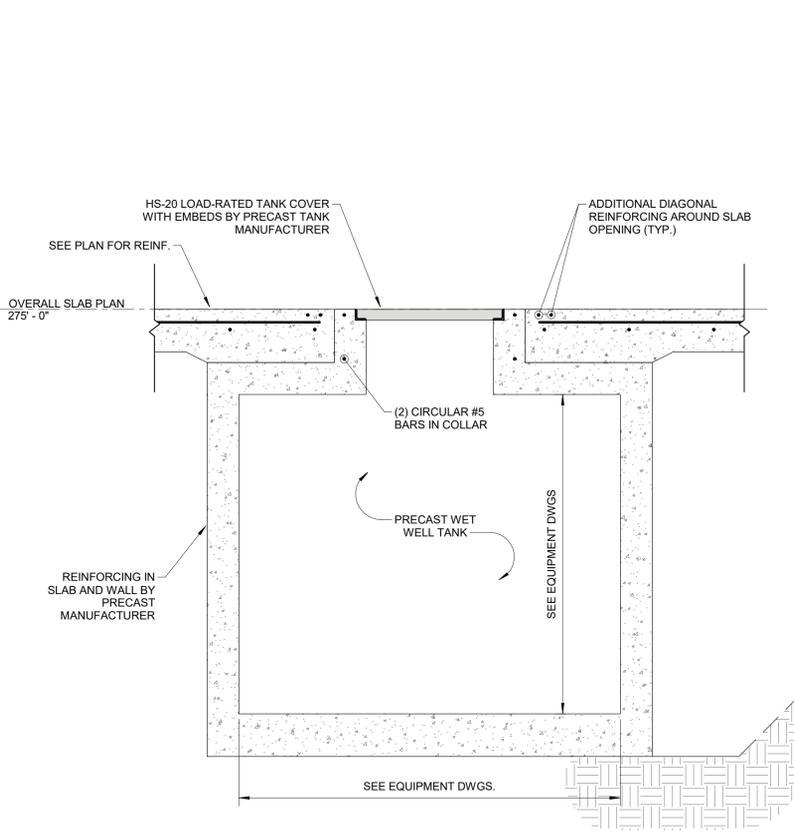
**3 SECTION @ TRENCH DRAIN IN WASH BAY**  
 SCALE: 3/4" = 1'-0"



**5 SECTION @ WASH BAY WALL**  
 SCALE: 3/4" = 1'-0"

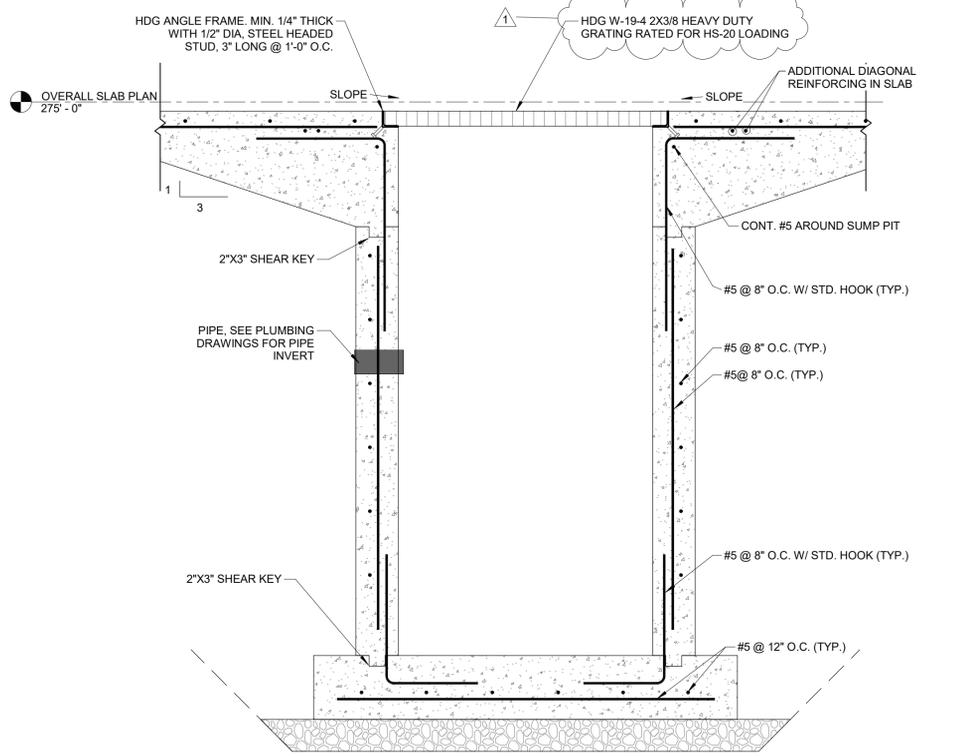


**8 SECTION @ RETAINING KNEEWALL**  
 SCALE: 3/4" = 1'-0"



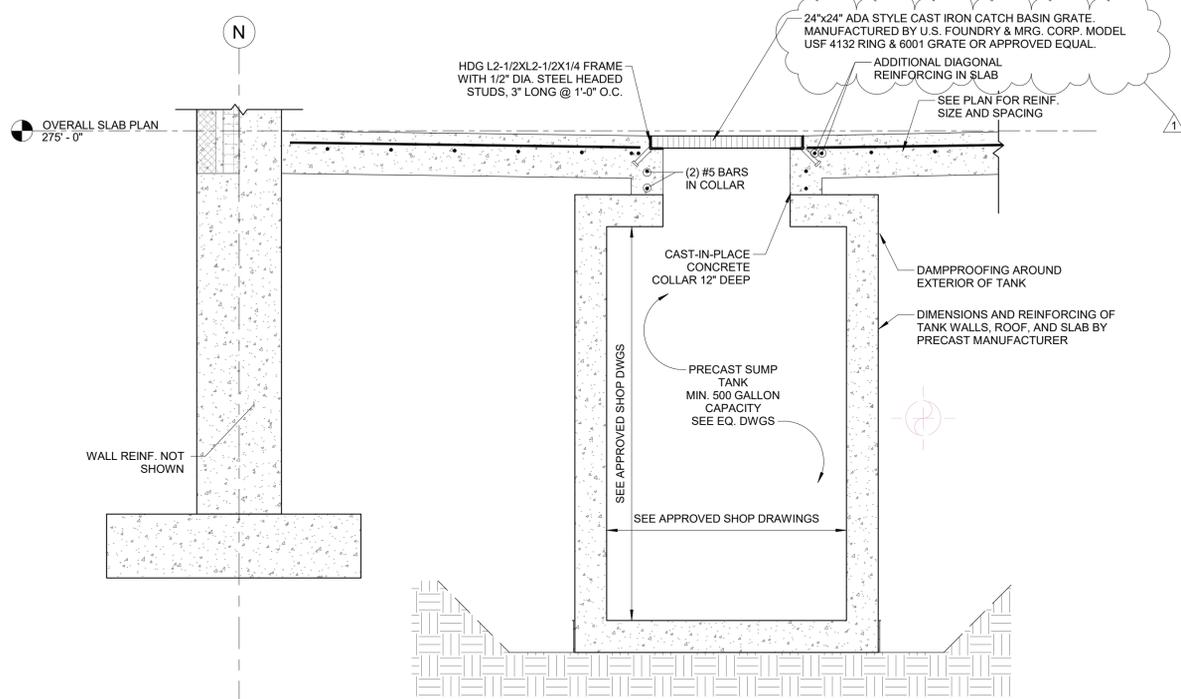
**2 SECTION @ PRE-TREATMENT TANK**  
 SCALE: 3/4" = 1'-0"

NOTE(S):  
 1. REFER TO EQ. DRAWINGS FOR DETAILS



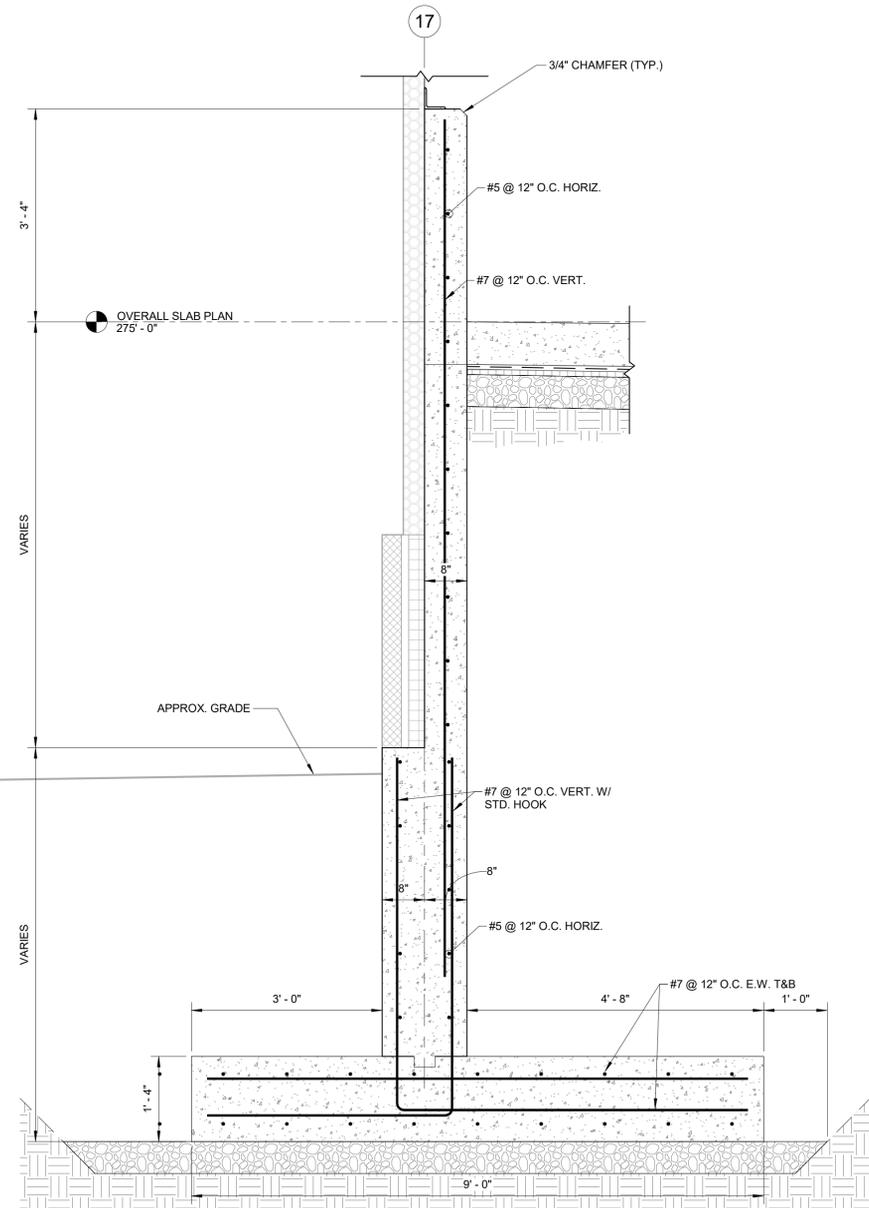
**4 SECTION @ WASH BAY SUMP**  
 SCALE: 3/4" = 1'-0"

**FOR BIDDING  
 NOT FOR CONSTRUCTION**

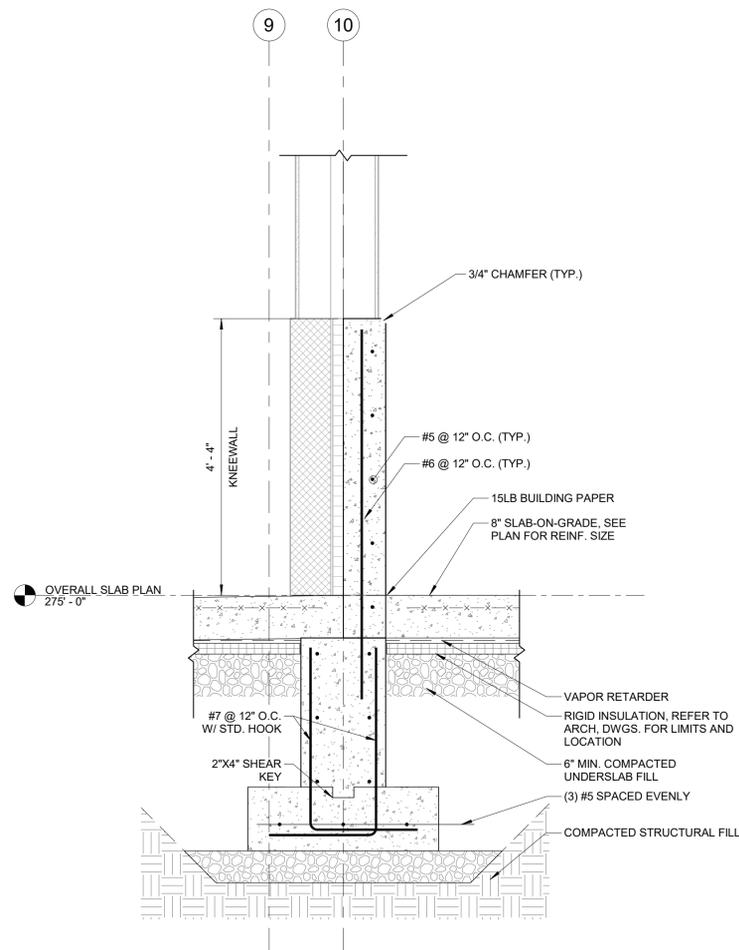


- NOTES:
- 500 GALLON (MIN.) WATER-TIGHT PRECAST CONCRETE TANK TO BE DESIGNED AND MANUFACTURED BY THE PRECAST MANUFACTURER. SUBMIT CALCULATIONS TO EOR FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. TANK SHALL BE A MINIMUM HS-20 LOAD-RATED PRECAST TANK TO BE PROVIDED AND INSTALLED BY GC. MINIMUM LOADING, CONCRETE AND REINFORCEMENT REQUIREMENTS SHALL BE IN ACCORDANCE WITH REQUIREMENTS INCLUDED IN PRECAST MANHOLES AND CATCHBASINS SPEC.

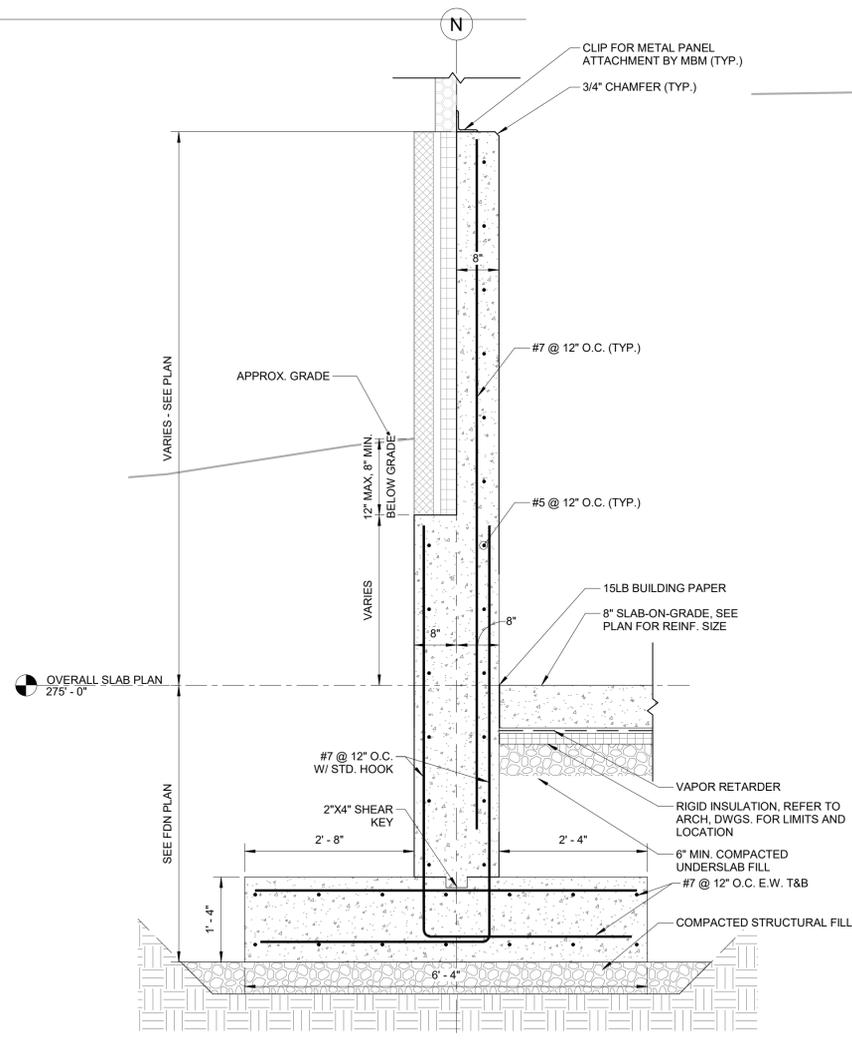
1 SECTION @ FLUIDS ROOM SUMP  
SCALE: 3/4" = 1'-0"



5 SECTION @ FOUNDATION RETAINING WALL  
SCALE: 3/4" = 1'-0"



8 SECTION @ BETWEEN MAINT & VEH. STORAGE  
SCALE: 3/4" = 1'-0"



2 SECTION @ VEHICLE STORAGE  
SCALE: 3/4" = 1'-0"

FOR BIDDING  
NOT FOR CONSTRUCTION

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W&S Project No: ENG20-0501

Drawing Title:  
FOUNDATION  
SECTIONS &  
DETAILS III

Sheet Number:  
S403

**GENERAL NOTES:**

- A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT LOCAL CODES AND PROJECT SPECIFICATIONS.
- B. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL PIPING WITH MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL TRADES PRIOR TO CONSTRUCTION TO AVOID INTERFERENCE.
- C. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, TRAPS, ETC.
- D. PROVIDE TRAP GUARDS FOR ALL P-TRAPS FOR FLOOR DRAINS LOCATED IN MECHANICAL ROOMS, PUBLIC RESTROOMS AND OTHER AREAS WHERE TRAP EVAPORATION MAY OCCUR.
- E. PLUMBING CONTRACTOR SHALL CONNECT ALL ITEMS OF EQUIPMENT FURNISHED BY OTHERS AND UNDER OTHER SECTIONS OF THE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO COMPLETE THE PLUMBING INSTALLATION.
- F. REFER TO ARCHITECTURAL DRAWING FOR ROUGHING DIMENSIONS OF PLUMBING FIXTURE MOUNTINGS HEIGHTS.
- G. PROVIDE UNIONS FOR ALL PIPING CONNECTIONS TO EQUIPMENT.
- H. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE IN COMPLIANCE WITH CURRENT APPLICABLE ENERGY CONSERVATION CODES.
- I. ALL PIPING AND EQUIPMENT IS SHOWN DIAGRAMMATICALLY ONLY. GENERAL ORIENTATION SHOWN IN PLAN AND SECTIONAL DRAWINGS. EXACT LOCATION SHALL BE DETERMINED IN FIELD. MAINTAIN HEAD ROOM AND SPACE CONDITIONS AT ALL TIMES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES BEFORE PROCEEDING WITH INSTALLATION. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES. PRIOR TO EQUIPMENT SUBMITTALS, CONTRACTOR SHALL VERIFY EXISTING AND PROPOSED CONDITIONS SUCH AS CORRIDORS, PASSAGE-WAY ROOM SIZES, ETC. TO ENSURE SPECIFIED EQUIPMENT CAN BE PROPERLY INSTALLED.
- J. FABRICATE AND INSTALL ALL PIPING IN ACCORDANCE WITH THE STATE PLUMBING CODE, LOCAL PLUMBING CODE, AND APPLICABLE SECTIONS OF THE BUILDING CODES.
- K. INSTALL PIPING CLOSE TO WALLS, PARTITIONS, CEILINGS, ETC. OFFSET ONLY WHERE NECESSARY TO FOLLOW WALLS, AS INDICATED. PROVIDE ALL NECESSARY FITTINGS, OFFSETS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE INSTALLATION.
- L. INSTALL PIPING IN A CONCEALED MANNER, STRAIGHT, PLUMB AND AS DIRECT AS POSSIBLE. FORM RIGHT ANGLES PARALLEL WITH BUILDING WALLS. LOCATE GROUPS OF PIPES PARALLEL TO EACH OTHER. PIPE SHALL BE LOCATED TO PERMIT ACCESS FOR SERVICE VALVES.
- M. CONCRETE PADS, PITS, AND FLASHING FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
- N. ALL PIPING SHALL BE REAMED TO BE FREE OF BURRS. KEEP PIPING FREE FROM SCALE AND DIRT. PROTECT OPEN PIPE ENDS WHENEVER WORK IS SUSPENDED DURING CONSTRUCTION TO PREVENT FOREIGN MATERIAL FROM ENTERING, AND CAP ALL OPEN ENDS DURING CONSTRUCTION WITH APPROVED TEMPORARILY CAPS OR MATERIALS.
- O. ALL GAS PIPING AND OTHER PLUMBING SYSTEMS SHALL BE SEISMICALLY BRACED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STATE BUILDING CODE AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). SEAL ALL WALL AND FLOOR PENETRATIONS AROUND NEW PIPES WITH FIRE PROOF CAULKING.
- P. MAINTENANCE LABELS SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND MAINTENANCE AND OPERATION MANUALS SHALL BE PROVIDED TO OWNER.
- Q. INSTALL WELDED OR THREADED PIPE IN AREAS WHERE SPACE IS CRITICAL BETWEEN FINISHED CEILING AND STRUCTURAL SURFACE. INSTALL ALL VENTS THRU ROOF 10'-0" MINIMUM FROM EDGE OF ROOF AND 25'-0" FROM FRESH AIR INTAKES.
- R. SUBMIT ALL REQUIRED PLUMBING DOCUMENTS TO LOCAL PLUMBING OFFICIAL FOR APPROVAL. THE ENTIRE PLUMBING SYSTEM SHALL BE INSTALLED IN COMPLIANCE WITH ALL APPLICABLE BUILDING CODES, REGULATIONS, AND LOCAL REQUIREMENTS.
- S. SUBMIT APPROVED PRESSURE REDUCING VALVES & BACKFLOW PREVENTION DEVICES TO WATER AUTHORITY. CONTRACTOR SHALL PROVIDE ALL NECESSARY DEVICES PER WATER AUTHORITY REQUIREMENTS AND MANUFACTURER RECOMMENDATIONS.
- T. ALL WALL, CEILING AND FLOOR PENETRATIONS CONVEYING PLUMBING AND DRAINS SHALL BE FULLY SEALED AND CAULKED AROUND THE PENETRATING FEATURE TO RESTORE THE REQUIRED FIRE OR SMOKE BARRIER RATING OF THE WALL, CEILING OR FLOOR PENETRATED. AT A MINIMUM, AT ALL LOCATIONS A TWENTY (20) MINUTE FIRE/SMOKE RESISTANCE SHALL BE MAINTAINED. WHERE REQUIRED BY CODE, THE PENETRATING FEATURES SHALL ALSO BE SUPPLIED AND INSTALLED WITH A MECHANISM OR MATERIAL WHICH WILL MAINTAIN THE WALL, CEILING OR FLOOR RATING IN THE EVENT OF A FIRE.
- U. PLUMBING OR SPRINKLER RELATED PIPE SHALL NOT PENETRATE INTO OR PASS THROUGH STAIRWAYS UNLESS IT IS REQUIRED FOR SERVICING THE STAIRWAY OR IT IS SEGREGATED FROM THE STAIRWAY PASSAGEWAY BY AN ENCLOSURE SYSTEM RATED EQUAL TO OR GREATER THAN THE REQUIRED STAIRWAY RATING.
- V. PROVIDE FLUSH TYPE ACCESS DOORS OR PANELS NO SMALLER THAN 12"x12" AND NO LARGER THAN 30"x30" FOR ALL VALVES OR APPARATUS LOCATED IN CHASES, WALLS, AND NON ACCESSIBLE CEILINGS, OR FLOORS.
- W. INSTALL WATER HAMMER ARRESTORS IN COMPLIANCE WITH ALL APPLICABLE CODES. SIZE OF WATER HAMMER ARRESTORS SHALL BE ACCORDING TO THE WATER HAMMER SCHEDULE AND MANUFACTURER'S RECOMMENDATIONS FOR THAT BRANCH LINE.
- X. CLEANOUTS SHALL BE PROVIDED AS INDICATED ON PLANS AND AS REQUIRED BY THE LOCAL CODES.
- Y. PRIOR TO INSTALLING ANY PIPING, VERIFY EXISTING OR NEW INVERT ELEVATIONS, LOCATIONS AND PIPE SIZES. INSTALL ALL SANITARY AND WASTE BEGINNING AT LOW POINT OF EACH SYSTEM AND CONTINUE WITH UNBROKEN CONTINUITY OF INVERT. LOW POINT OF EACH SYSTEM SHALL BE COORDINATED WITH SITE UTILITIES CONTRACTOR. REFER TO SITE UTILITY PLANS FOR REFERENCE.
- Z. DRAIN VALVES SHALL BE PROVIDED ON LOWEST POINT OF ALL DOMESTIC WATER RISERS AS FOLLOWS: 1-1/2" OR LESS-PROVIDE 1/2" DRAIN VALVE. 2" OR LARGER-PROVIDE 3/4" DRAIN VALVE.
- BB. PROVIDE ISOLATION VALVES AT ALL FIXTURES AND EQUIPMENT.
- CC. PLUMBING CONTRACTOR SHALL INSTALL GAS VENTS FOR ALL GAS MANIFOLD/TRAIN SYSTEMS LOCATED AT BOILERS OR WATER HEATERS. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS TO DETERMINE MOST ECONOMICAL ROUTE FOR MANIFOLD VENTS BEGINNING AT EQUIPMENT AND EXTENDING THROUGH ROOF.

PLUMBING SYMBOL LIST	
SYMBOL	DESCRIPTION
	POINT OF CONNECTION
NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
---	NEW PIPING LOCATED ABOVE FLOOR/SLAB
---	NEW PIPING LOCATED BELOW FLOOR/SLAB
---	COLD WATER PIPING (CW)
---	HOT WATER PIPING (HW)
---	HOT WATER RECIRCULATING PIPING (HWR)
W	WATER SERVICE - EXTERIOR
SAN	SANITARY SEWER PIPING
V	VENT PIPING (V)
G	NATURAL GAS PIPING (G)
OW	OIL/WATER WASTE PIPING (OW)
CA	COMPRESSED AIR PIPING (CA)
↳	ELBOW DOWN
↳↗	45° OFFSET
○	ELBOW UP
⊖	BOTTOM/TEE CONNECTION
⊕	TOP TEE CONNECTION
∩	"P" TRAP
---	PIPE CONTINUATION
---	CAP OR PLUG
⊕	DECK PLATE CLEANOUT (DPCO)
⊕	WALL PLATE CLEANOUT (WPCO)
⊕	CLEANOUT (CO)
⊕	FLOOR DRAIN (FD) / FLOOR SINK (FS)
⊕	WALL HYDRANT (WH) / HOSE BIBB (HB)
⊕	STRAINER
M	WATER METER
⊖	SHUT OFF VALVE
⊖	BALANCING VALVE
⊖	CHECK VALVE
⊖	SOLENOID VALVE
⊖	PRESSURE REDUCING VALVE
⊖	RELIEF VALVE
⊖	UNION
⊖	BACKFLOW PREVENTER (BFP)
⊖	SHOWER HEAD
⊖	SHOCK ABSORBER (SA)
⊖	RECIRCULATION PUMP
⊖	THERMOMETER
⊖	PRESSURE GAUGE
⊖	DRAWING KEYNOTE

**FIXTURE AND EQUIPMENT CONNECTION SCHEDULE**

DESIGNATION	DESCRIPTION	COLD WATER	HOT WATER	WASTE OR SANITARY	VENT	REMARKS
WC-A	WATER CLOSET - PUBLIC - FLUSH VALVE	1"	-	3"	2"	ADA HEIGHT, WALL HUNG, ELONGATED, 1.28 GPF: AMERICAN STANDARD AFWALL. OPEN FRONT TOILET SEAT.
UR-A	URINAL -PUBLIC - FLUSH VALVE	3/4"	-	2"	1-1/2"	WALL MOUNTED, ELONGATED FLUSHING RIM, TOP SPUD, SLOAN G2 OPTIMA PLUS SENSOR BATTERY POWERED, 0.5 GPF: AMERICAN STANDARD WASHBROOK.
LAV-A	LAVATORY - ADA	1/2"	1/2"	1-1/2"	1-1/2"	AMERICAN STANDARD LUCERNE, WALL-HUNG, LAV GUARD
LAV-B	LAVATORY - PUBLIC - ADA	1/2"	1/2"	1-1/2"	1-1/2"	AMERICAN STANDARD, LAV GUARD
SK-A	KITCHEN SINK	1/2"	1/2"	1-1/2"	1-1/2"	ELKAY LUSTERTONE, ADA, STRAINER
SH-A	SHOWER - ADA	1/2"	1/2"	1-1/2"	1-1/2"	AQUATIC ADVANTAGE 16030BFSC, CENTER BRASS DRAIN, SLIP RESISTANT TEXTURED BOTTOM, VINYL FLEXIBLE DAM, REINFORCED FOR FOLDING SEAT AND GRAB BARS, CURTAIN ROD, SOAP DISH, MOEN 8346EP15 POSI-TEMP TRIM KIT, CHROME FINISH, HAND-HELD SHOWER WITH 30" SLIDE BAR, DROP ELL, 69" METAL HOSE, CHROME FINISH, 1.5 GPM.
FD-A	FLOOR DRAIN - STANDARD	-	-	2"	1-1/2"	JAY R SMITH FIGURE 2010,7" ADJUSTABLE STRAINER, TRAP GUARD
FD-B	FLOOR DRAIN - WITH RECESS	-	-	3"	1-1/2"	JAY R SMITH FIGURE 2010, 7" ADJUSTABLE STRAINER, TRAP GUARD, WITH RECESSED, ANTI-FLOOD RIM.
FD-C	FLOOR DRAIN - HEAVY DUTY	-	-	4" 6"	-	JAY R SMITH FIGURE 21243C, 12" NICKEL BRONZE HINGED GRATE, SEDIMENT BUCKET, QUAD CLOSE TRAP SEAL.
TD-A	TRENCH DRAIN SYSTEM WITH CATCH BASIN	-	-	4" 6"	-	ZURN Z882-HDG, GALVANIZED PRE-SLOPED TRENCH DRAIN SYSTEM, HIGH DENSITY POLYETHYLENE, EXTRA HEAVY DUTY 12" WIDE GRATE, EN1433 CLASSIFICATION E', GALVANIZED CATH BASIN WITH SEDIMENT BASKET.
EWC-A	WATER COOLER - ADA	1/2"	-	1-1/2"	1-1/2"	ELKAY EZSTLBC, BI-LEVEL NON-FILTERING, 8 GPH.
EM-SH	EMERGENCY SHOWER AND EYE/FACE WASH	1"	-	-	-	SPEAKMAN SE-603, FREE-STANDING, 20GPM TEPID (60-100 DEG.F.) WATER
SS-A	SERVICE SINK	1/2"	1/2"	2"	1-1/2"	AMERICAN STANDARD AKRON

**BACKFLOW PREVENTER SCHEDULE**

NO.	AREA SERVED	USAGE	TYPE	ORIENTATION	INLET/OUTLET SIZE (IN.)	INLET/OUTLET SHUTOFF VALVE TYPE	MAX. WORKING PRESSURE (PSI)	FLOW AT 7.5 FPS (GPM)	PRESSURE DROP AT 7.5 FPS (PSI)	DESIGN MAKE
DCDA-1	DPW BLDG	FIRE WATER	DCDA	HORIZONTAL	6"	OSY	175	680	7.0	WATTS 709 DCDA
RPZ-1	DPW BLDG	DOMESTIC WATER	RPZ	HORIZONTAL	3"	OSY	175	170	12.0	WATTS LF909 RPZ
RPZ-2	WASHBAY	WASHBAY EQUIPMENT	RPZ	HORIZONTAL	1"	QUARTER TURN BALL	175	20	10.0	WATTS 009M2-QT-S

**AIR COMPRESSOR SCHEDULE**

NO.	LOCATION	SERVICE	ACFM	MAX. PRESSURE (PSIG)	MOTOR			TYPE	DESIGN MAKE
					HP	VOLTAGE	PHASE		
COMP-1	COMPRESSOR ROOM	TRUCK BAYS	92.4	175	15	480	3	DUPLX RECIPROCATING	CHAMPION MODEL HR15-12

- REMARKS:
- INCLUDE 120 GALLON RECEIVER
  - INCLUDE REFRIGERANT DRYER
  - INCLUDE 400 GALLON DRY STORAGE TANK

**WATER HEATER SCHEDULE**

NO.	SERVICE	STORAGE VOLUME (GAL.)	BTUH INPUT	GALLONS/HOUR...	TEMP RISE DEG F	FUEL TYPE	VENT IN INCHES	ELECTRIC	EFFICIENCY	DESIGN MAKE
WH-1	ADMIN	60	1200000	138	100	NAT GAS	3"	120V / 5A	95%	A.O. SMITH CYCLONE MXI BTH 120(A)
WH-2	VEHICLE MAINT.	60	1200000	138	100	NAT GAS	3"	120V / 5A	95%	A.O. SMITH CYCLONE MXI BTH 120(A)

**MASTER MIXING VALVE SCHEDULE**

TAG NO.	SERVICE	TYPE	DESIGN RANGE (GPM)	PEAK FLOW (GPM)	MAX. PRESSURE DROP AT PEAK FLOW (PSI)	CONNECTIONS			DESIGN MAKE
						HW INLET	CW INLET	MIXED OUTLET	
MMV-1	WH-1,WH-2	HIGH/LOW	0.5 - 159	60.0	10	1-1/4"	1-1/4"	1-1/2"	POWERS LFSH1434

**PUMP SCHEDULE**

NO.	LOCATION	SERVICE	GPM	HEAD FT WATER	MOTOR			RPM	TYPE	DESIGN MAKE
					HP	VOLTAGE	PHASE			
RP-1	MEZZANINE	ADMIN HWR	1.2	13.1	0.5	208	1	2225	INLINE	BELL & GOSSETT ECOCIRC XL 55-45

**EXPANSION TANK SCHEDULE**

NO.	LOCATION	SERVICE	RELIEF PRESSURE	TANK VOLUME (GALLONS)	MAX. ACCEPT FACTOR	DESIGN EQUIPMENT
ET-1	WH-1, WH-2	DOM. WATER	125 PSI	10	1.0	AMTROL ST-35-CL

**SHOCK ABSORBER SCHEDULE**

NO.	FIXTURE UNIT RATING	SIZE IN INCHES	PDI SYMBOL
SA-A	1 - 11	1/2"	A
SA-B	12 - 32	3/4"	B
SA-C	33 - 60	1"	C
SA-D	61 - 113	1 1/4"	D
SA-E	114 - 154	1 1/2"	E
SA-F	155 - 330	2"	F

Project:

VILLAGE OF ARDSLEY, NY



NEW PUBLIC WORKS FACILITY

220 HEATHERDELL ROAD, VILLAGE OF ARDSLEY, NEW YORK 10502



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Rev	Date	Description
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Date: APRIL 7, 2022

Drawn By: CES

Reviewed By: PJW

Approved By: BAB

W&S Project No: N2190088

Drawing Title:

GENERAL NOTES, SCHEDULES & SYMBOL LIST

Sheet Number:

P001

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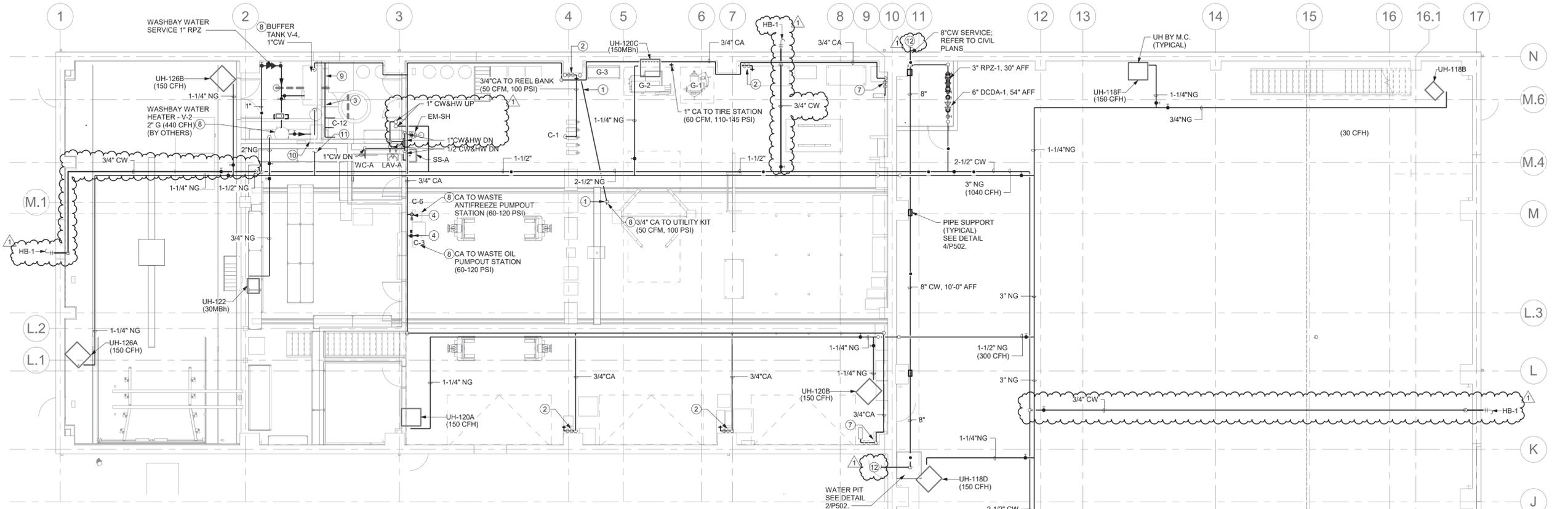
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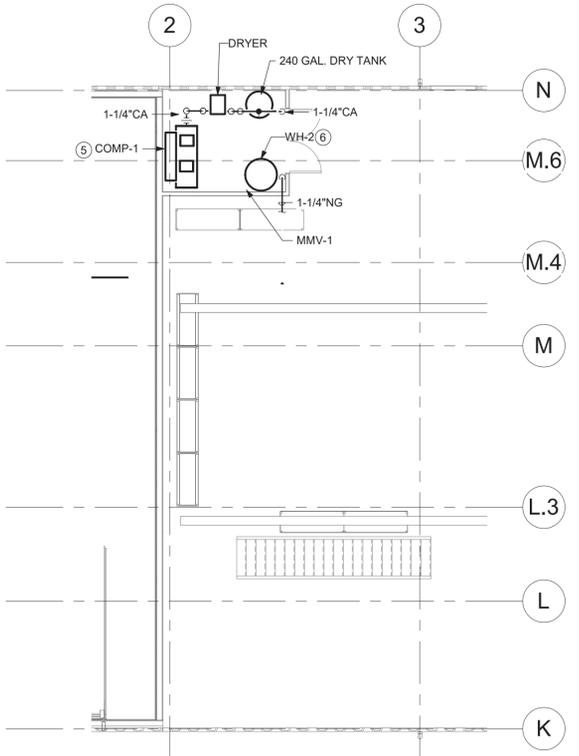
**PARTIAL LARGE SCALE PLUMBING FLOOR PLANS - AREA "A" - WATER AND GAS**

Sheet Number:

**P103**



**1 PARTIAL PLUMBING PLAN "A" WATER & GAS**  
 1/8" = 1'-0"

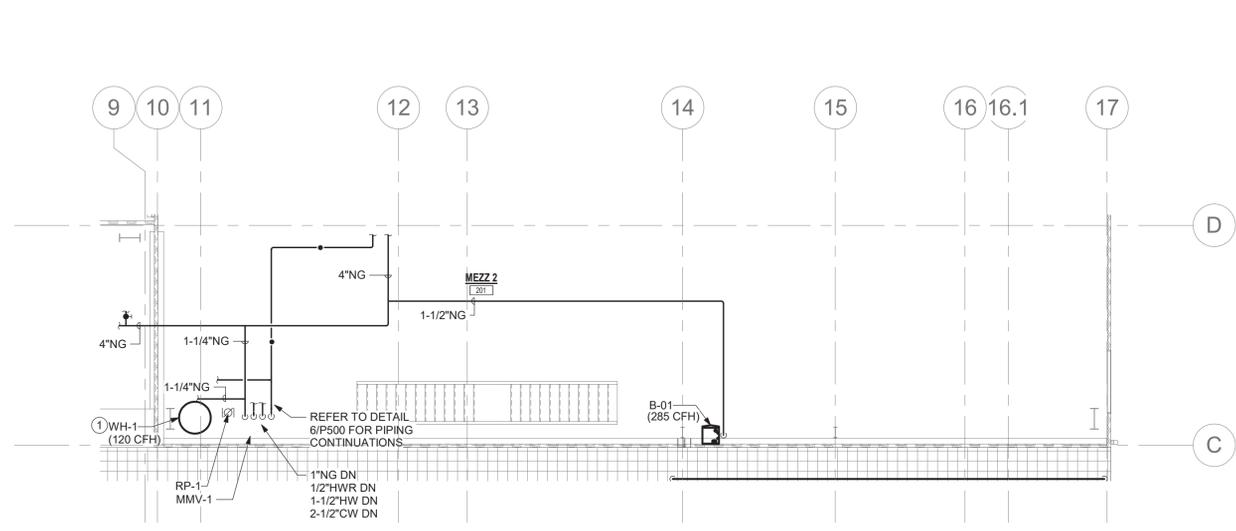


**2 MEZZANINE 1 FLOOR PLAN - PLUMBING WATER & GAS**  
 1/8" = 1'-0"

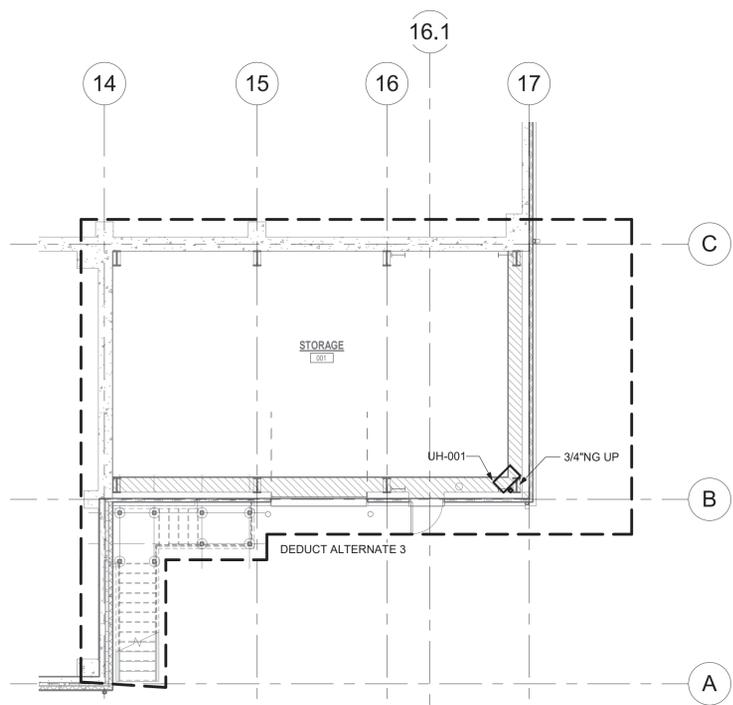


**P103 DRAWING NOTES**

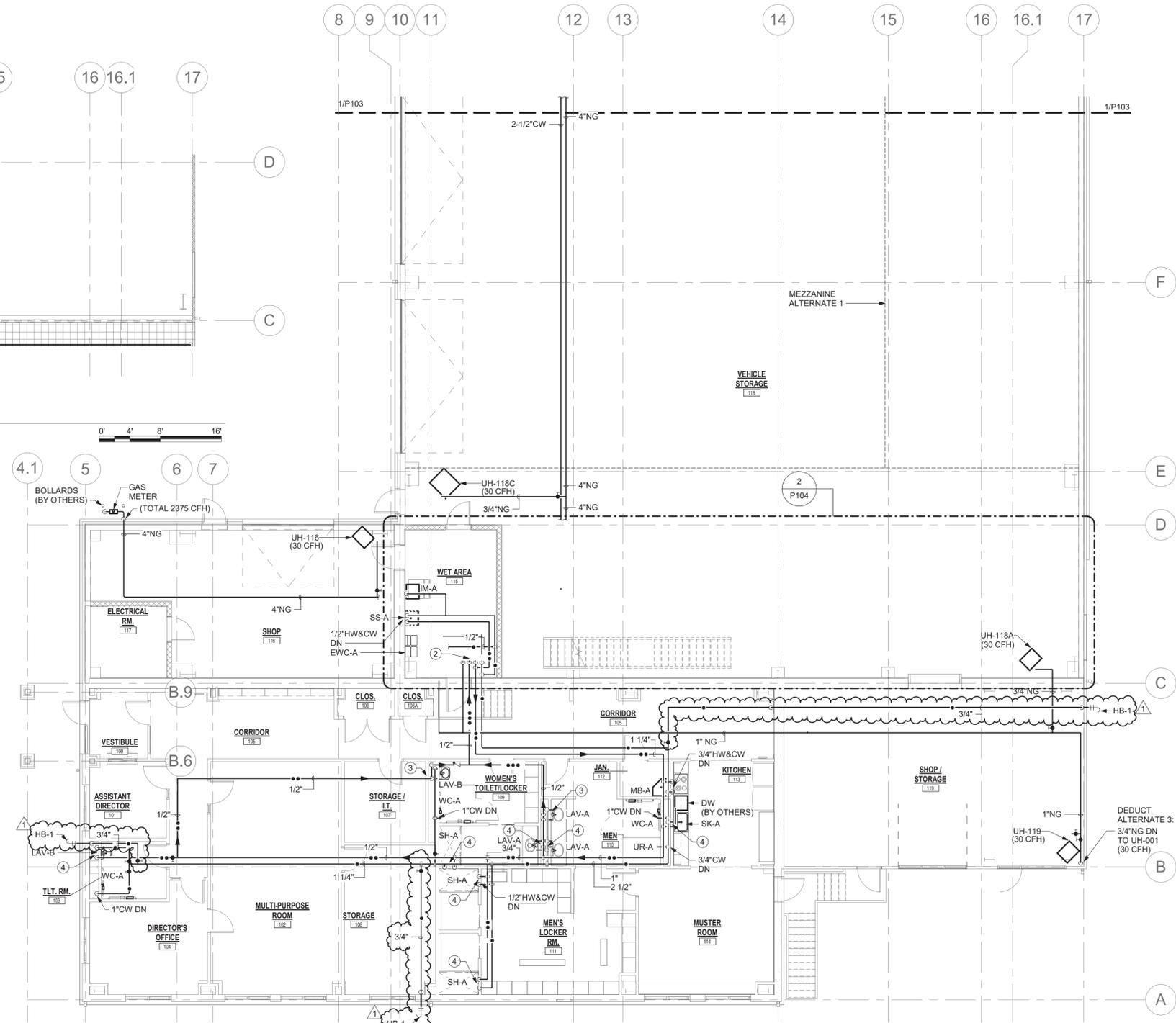
- PROVIDE 2" PVC PIPE SLEEVE BELOW FINISHED FLOOR FOR ROUTING OF 3/4" PNEUMATIC HOSE TO SERVE THE VEHICLE LIFT STATION UTILITY KIT. COORDINATE LOCATION OF STUB UP WITH VEHICLE LIFT MANUFACTURER.
- 3/4" CA DROP TO 3/4" FILTER-REGULATOR-LUBRICATOR, MOUNTED 5'-0" AFF. TERMINATE WITH 3/4" QUICK DISCONNECT (50 CFM, 100 PSI)
- INSTALL FUSIBLE HEAT ACTIVATED SHUT OFF VALVE AND MOTORIZED BALL VALVE IN MAIN CA LINE TO LUBE PUMPS. MOTORIZED BALL VALVE AND HEAT ACTIVATED SHUTOFF VALVE PROVIDED BY LUBE SYSTEM CONTRACTOR.
- INSTALL MOTORIZED BALL VALVE IN CA LINE. MOTORIZED BALL VALVE PROVIDED BY LUBE SYSTEM CONTRACTOR.
- PROVIDE 15HP RECIPROCATING COMPRESSOR WITH 120 GALLON RECEIVER, REFRIGERANT DRYER, AND 400 GALLON DRY STORAGE TANK, REFER TO SPECIFICATIONS.
- PROVIDE 60 GALLON GAS FIRED MODULATING WATER HEATER, COMPLETE WITH EXPANSION TANK AND T&P RELIEF VALVE. ROUTE 1-1/4" HW TO EMERGENCY EYEWASH, SS-A AND LAV-A IN ROOMS BELOW. ROUTE 3/4" NATURAL GAS LINE FROM MAIN. REFER TO DETAIL 6/P500 FOR CONNECTIONS. REFER TO SPECIFICATIONS.
- 3/4" CA DROP TO 3/4" FILTER-REGULATOR-LUBRICATOR, MOUNTED 5'-0" AFF. TERMINATE WITH WALL MOUNTED 50FT 3/4" AIR REEL (50 CFM, 100 PSI)
- PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO VEHICLE WASH EQUIPMENT. COORDINATE FINAL CONNECTION REQUIREMENTS WITH VEHICLE WASH EQUIPMENT INSTALLER.
- 3/4" CA TO FLUID TANK SYSTEM (7CFM @ 40PSI; 69CFM @ 90PSI; 10CFM @ 60PSI)
- BUFFER TANK V-1 1" CW, 1/2" CA (6 CFM @ 90 PSI)
- 1-1/4" NG TO WH-2 (120CFH)
- ALL DIP CLASS 52 WATER SERVICE TO AND THROUGH THE BUILDING, INCLUDING NEW TAP AND SERVICE LINE FROM ADJACENT GREENBURGH PROPERTY, INCLUDING THE INTERIOR OVERHEAD LINE BETWEEN THE WATER ROOM AND BUILDING EXTERIOR, ALL HANGERS, INSULATION, PROTECTIVE COVERS, ETC., SHALL BE PROVIDED BY THE GC. NOTE THAT THIS ENTIRE WATER LINE IS SUBJECT TO ALL PRESSURE AND BACTERIOLOGICAL TESTING REQUIRED BY THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH.



2 MEZZANINE 2 FLOOR PLAN - LARGE SCALE  
 1/8" = 1'-0"



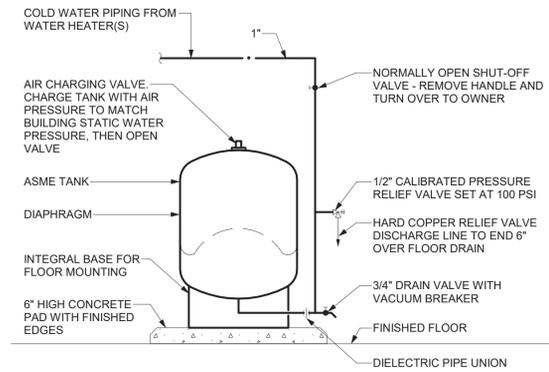
3 BASEMENT FLOOR  
 1/8" = 1'-0"



1 PARTIAL LARGE SCALE FIRST FLOOR/ADMIN PLAN "B" WATER & COMPRESSED AIR  
 1/8" = 1'-0"

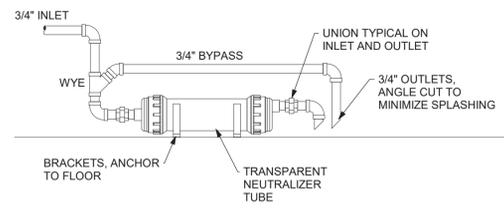
**P104 DRAWING NOTES**

- 1 PROVIDE 60 GALLON GAS FIRED MODULATING WATER HEATER, COMPLETE WITH EXPANSION TANK AND T&P RELIEF VALVE. INCLUDE RP-1. ROUTE HW, CW, AND HW/R TO FIXTURES IN ROOMS BELOW. ROUTE 3/4" NATURAL GAS LINE FROM MAIN. REFER TO DETAIL 6/P500 FOR CONNECTIONS. REFER TO SPECIFICATIONS.
- 2 1"NG UP; 1/2"HWR UP; 1-1/2"HW UP; 2-1/2"CW UP
- 3 1/2"HW, CW&HWR DN
- 4 1/2"HW&CW DN



**1 THERMAL EXPANSION TANK DETAIL**

NOT TO SCALE

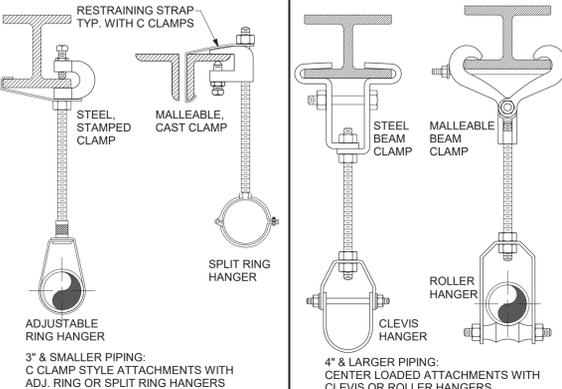


**4 CONDENSATE NEUTRALIZER DETAIL**

- DETAIL NOTES:
- A. NEUTRALIZER AND PIPING SHALL NOT OBSTRUCT ANY SERVICE SPACES OR ACCESS DOORS ON EQUIPMENT
  - B. PIPING SIZE SHALL BE 3/4" MINIMUM, DO NOT USE 1/2" VINYL TUBE
  - C. MOUNT NEUTRALIZER LEVEL, AND HORIZONTAL, WITH OUTLET HIGHER THAN INLET. VERTICAL MOUNTING SHALL NOT BE ACCEPTED DUE TO POSSIBLE BLOCKAGE OF INLET BY NEUTRALIZING MEDIA.
  - D. ALL PIPING SHALL BE LOWER THAN APPLIANCE CONDENSATE OUTLETS
  - E. TOTAL CONNECTED EQUIPMENT SHALL BE 300,000 BTUH OR LESS
  - F. DESIGN BASIS: AXIOM NC-1

**5 CONDENSATE NEUTRALIZER DETAIL**

NOT TO SCALE

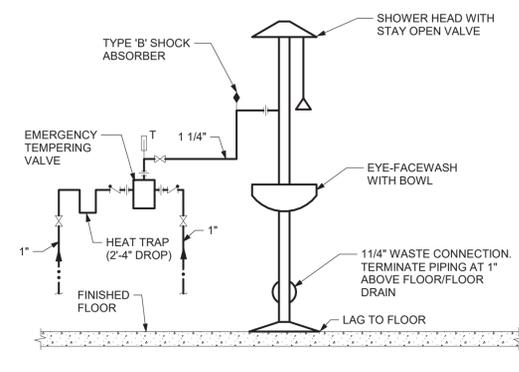


PIPE SIZE	SCHEDULE				ROD SIZE
	STEEL	COPPER	PLASTIC	CAST IRON	
3/4" TO 1"	8 FT.	6 FT.	3 FT.	EACH HORIZONTAL JT. 5 FT. MAXIMUM SPACING	3/8 IN.
1 1/4" TO 2"	10 FT.	6 FT.	3 FT.	EACH HORIZONTAL JT. 5 FT. MAXIMUM SPACING	3/8 IN.
2 1/2" TO 4"	12 FT.	10 FT.	4 FT.	EACH HORIZONTAL JT. 5 FT. MAXIMUM SPACING	1/2 IN.
5" TO 6"	12 FT.	10 FT.	4 FT.	EACH HORIZONTAL JT. 5 FT. MAXIMUM SPACING	5/8 IN.
8"	12 FT.	10 FT.	4 FT.	EACH HORIZONTAL JT. 5 FT. MAXIMUM SPACING	3/4 IN.
OVER 8"	TO SUIT LOADING CONDITIONS				

- DETAIL NOTES:
- 1. SUPPORT WITHIN 18 INCHES OF EACH COUPLING JOINT FOR 10 FT. PIPE LENGTHS
  - 2. SUPPORT AT 5 FT. INTERVALS FOR 5 FT. PIPE LENGTHS
  - 3. 4 INCH AND LARGER PIPE - BRACE AT CHANGES IN DIRECTION TO PREVENT HORIZONTAL MOVEMENT
  - 4. INSTALLATIONS REQUIRING MULTIPLE JOINTS WITHIN A FOUR FOOT DEVELOPED LENGTH SHALL BE SUPPORTED AT EVERY OTHER OR ALTERNATING COUPLINGS. FINISHES
  - 5. TYPICAL - ELECTROPLATED ZINC OR CADMIUM FINISH
  - 6. COPPER PIPING, UNINSULATED - COPPER PLATED OR PVC COATED
  - 7. EXTERIOR & WET LOCATIONS, HOT DIPPED GALVANIZED HARDWARE & HANGERS

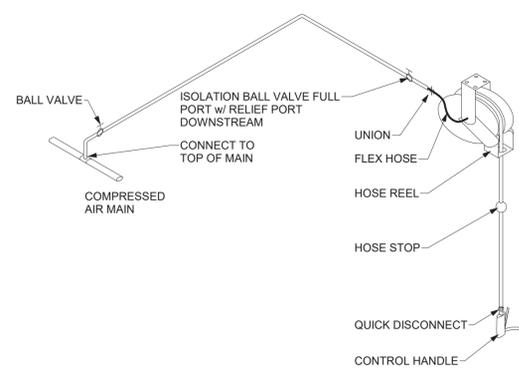
**8 PIPE HANGER AND SPACING DETAILS - STEEL STRUCTURE**

NOT TO SCALE



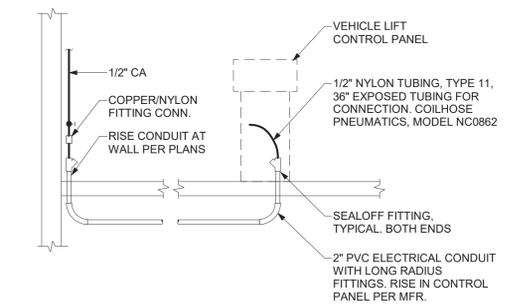
**2 EMERGENCY SHOWER/EYEWASH DETAIL**

NOT TO SCALE



**6 COMPRESSED AIR - HOSE REEL DETAIL**

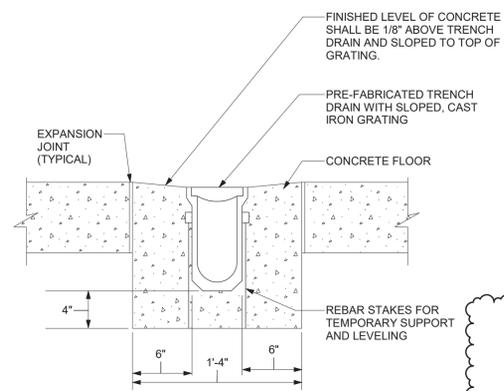
NOT TO SCALE



- DRAWING NOTES:
- A. PROVIDE ONE DEDICATED CONDUIT PER VEHICLE LIFT CONTROL PANEL
  - B. PROVIDE 1/2" COMPRESSED AIR CONNECTION TO CONDUIT RISER AT WALL
  - C. PROVIDE PERMANENT LABEL AT VALVE "VEHICLE LIFT COMPRESSED AIR"
  - D. STUB UP ABOVE FINISHED FLOOR PER LIFT MFR. COORDINATE CONDUIT ROUTE AND RISE LOCATIONS AT LIFT CONTROL CABINET WITH E.C. PROVIDE SEALOFF AT BOTH ENDS OF CONDUIT PER LIFT MANUFACTURER. PROVIDE 1/2" NYLON, TYPE 11, TUBING IN CONDUIT WITH 36" MIN. EXPOSED TUBING AT BOTH ENDS.

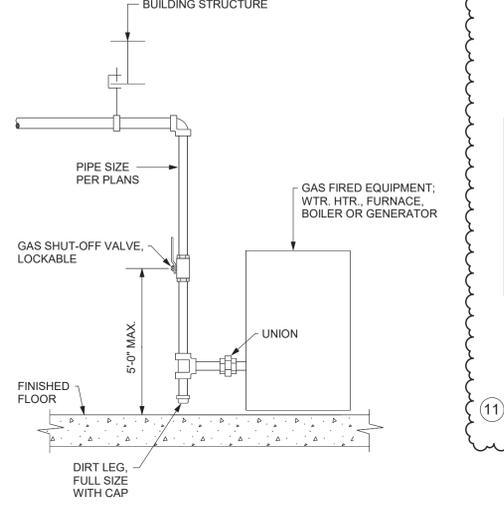
**9 VEHICLE LIFT - COMPRESSED AIR DETAIL**

NOT TO SCALE



**3 TRENCH DRAIN DETAIL**

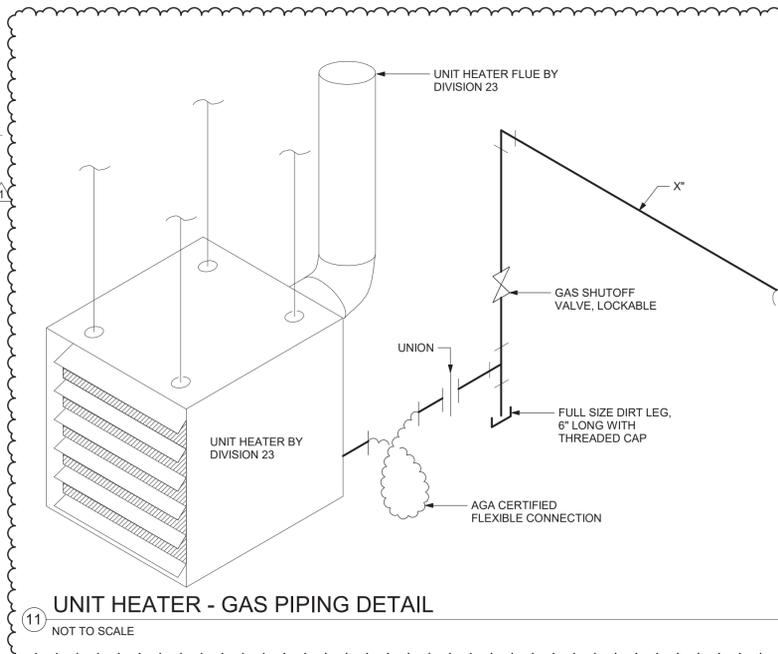
NOT TO SCALE



- DETAIL NOTES:
- A. PROVIDE SHUT-OFF VALVE, DIRT LEG AND UNION AT EACH GAS CONNECTION ON EACH PIECE OF EQUIPMENT.
  - B. VERIFY CONNECTION SIZES, QUANTITIES AND LOCATIONS WITH M.C.
  - C. PROVIDE PIPE NIPPLE THROUGH EQUIPMENT CASE. CSST & FLEX LINES SHALL NOT PENETRATE CASING PER CODE.

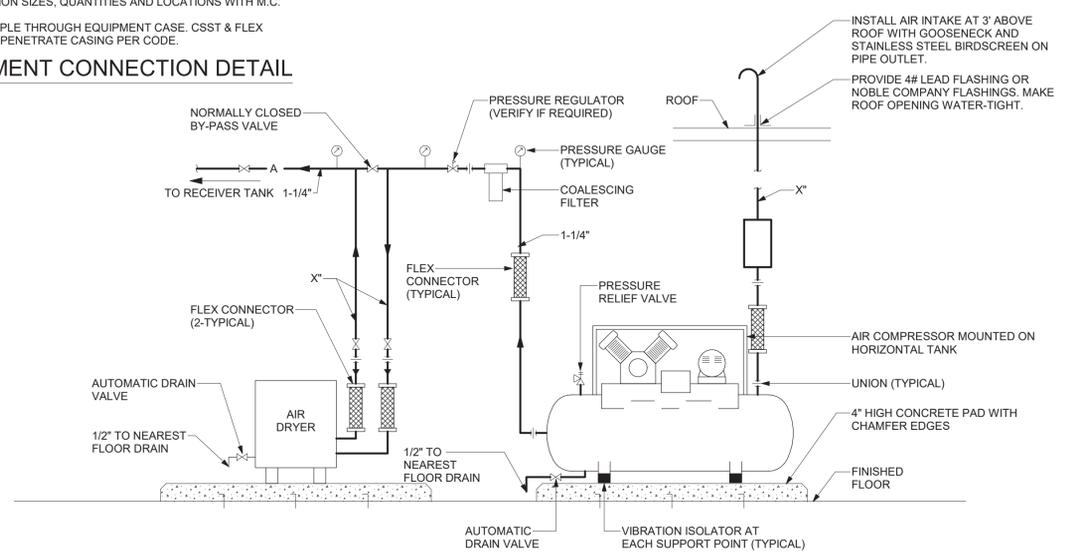
**7 GAS EQUIPMENT CONNECTION DETAIL**

NOT TO SCALE



**11 UNIT HEATER - GAS PIPING DETAIL**

NOT TO SCALE



- DETAIL NOTES:
- A. PIPE SIZES AND COMPRESSOR LOCATION AS INDICATED ON DRAWINGS.
  - B. COORDINATE EQUIPMENT ELECTRICAL CONNECTION REQUIREMENTS WITH SECTION 16/DIVISION 26.
  - C. ALL DRAIN PIPING SHALL TERMINATE AT 1" ABOVE NEAREST FLOOR DRAIN.
  - D. PAINT EXPOSED PIPING ABOVE ROOF WITH ONE(1) PRIMER AND TWO(2) FINISH COATS AS SPECIFIED.

**10 AIR COMPRESSOR DETAIL**

NOT TO SCALE

Project:  
VILLAGE OF ARDSLEY, NY  
  
NEW PUBLIC WORKS FACILITY  
220 HEATHERDELL ROAD,  
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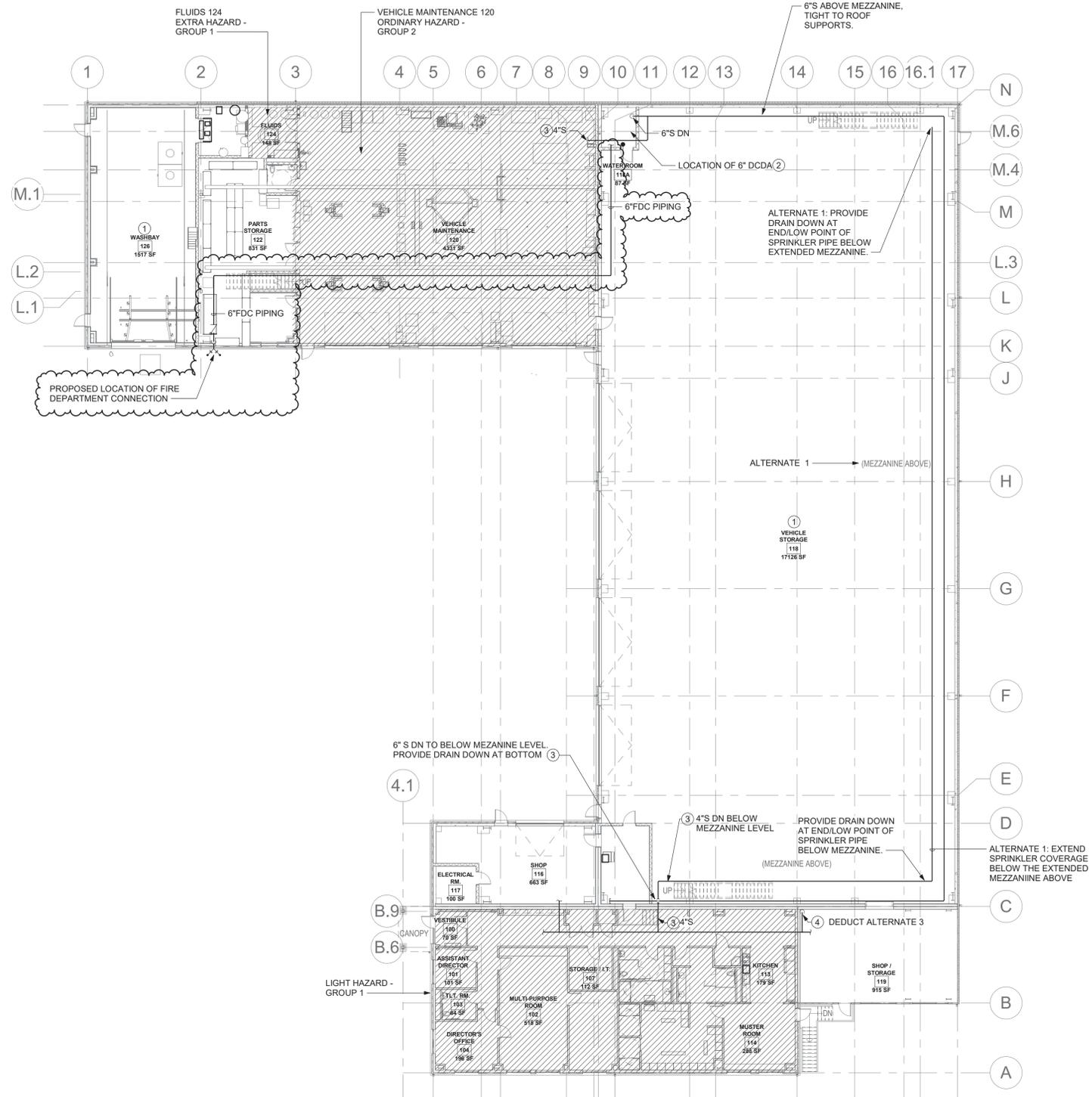
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Approved By: BAB  
W&S Project No: N2190088

Drawing Title:  
**DETAILS**  
Sheet Number:  
**P501**  
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**FP101 DRAWING NOTES**

- 1 FIRE HAZARD CLASSIFICATION SHALL BE ORDINARY HAZARD GROUP 1 UNLESS OTHERWISE NOTED.
- 2 FIRE SERVICE BACK FLOW PREVENTOR PROVIDED BY THE PLUMBING CONTRACTOR. COORDINATE SIZE AND CLEARANCE REQUIREMENTS WITH THE PC BASED ON THE RESULTS OF THE HYDRAULIC CALCULATIONS. REFER TO THE PLUMBING DRAWINGS FOR ROOM LAYOUT.
- 3 SPRINKLER MAIN SIZES INDICATED ARE FOR SUGGESTED ROUTING REFERENCE ONLY. THIS CONTRACTOR SHALL HYDRAULICALLY CALCULATE AND CONFIRM ALL MAINS AND BRANCH PIPING.
- 4 DEDUCT ALTERNATE No. 3: 2\"/>

**1 OVERALL FIRST FLOOR FIRE PROTECTION PLAN**  
1/16" = 1'-0"



Seal:

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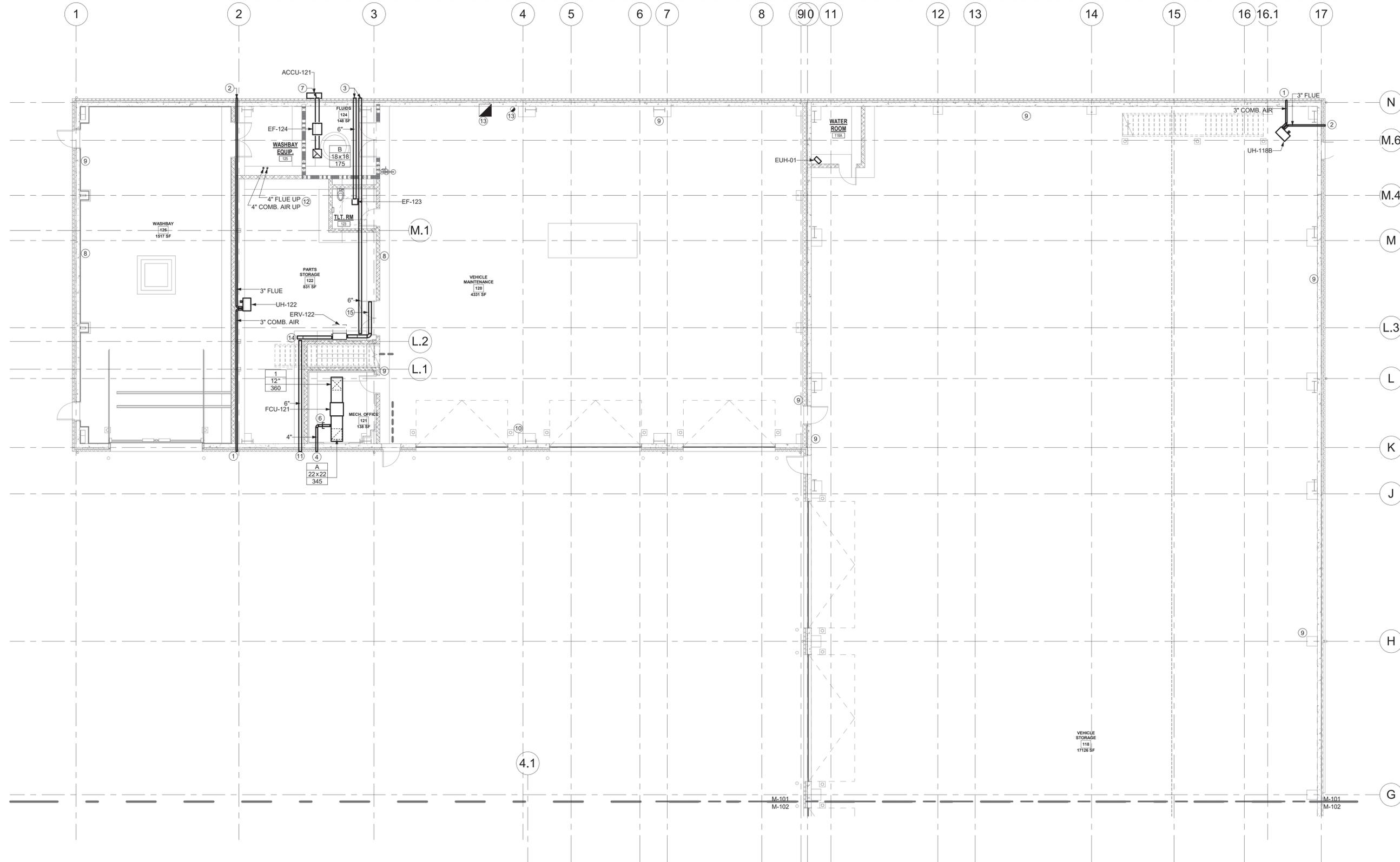
Drawing Title:  
**OVERALL FIRE PROTECTION FLOOR PLAN**  
Sheet Number:  
**FP101**

**M-101 DRAWING NOTES**

- 1 PROVIDE 3" GALVANIZED COMBUSTION AIR DUCT FOR UNIT HEATER. TERMINATE PER UNIT HEATER MFG INSTALLATION INSTRUCTIONS.
- 2 PROVIDE 3" DOUBLE WALL B VENT PER SPECIFICATION. TERMINATE WITH RAIN CAP.
- 3 PROVIDE 6" WALL CAP WITH BACKDRAFT DAMPER.
- 4 PROVIDE 4" WALL CAP.
- 6 BALANCE THE OUTSIDE AIR DUCT TO PROVIDE 25 CFM OF OUTDOOR AIR.
- 7 PROVIDE 8" WALL CAP WITH BACKDRAFT DAMPER.
- 8 PROVIDE HONEYWELL 301CC0 AND GAS DETECTION SYSTEM AT THIS LOCATION MOUNT 6'-0" ABOVE FINISHED FLOOR. PROVIDE ALARM LIGHT BAR ON TOP OF UNIT.
- 9 LOCATE HONEYWELL E3POINT SENSOR FOR GAS DETECTION SYSTEM WITH ALARM LEVEL LIGHTS AND HORN AT THIS LOCATION. SENSOR SHALL BE MOUNTED 5'-0" ABOVE FINISHED FLOOR. PROVIDE WIRING BACK TO HONEYWELL 301CC0 AND GAS DETECTION SYSTEM.

**M-101 DRAWING NOTES**

- 10 PROVIDE MONOXIVENT 6" DIAMETER 25' SPARE EXHAUST REEL AT THIS LOCATION.
- 11 PROVIDE 6" WALL CAP.
- 12 4" FLUE AND 4" COMBUSTION AIR TO BE CONNECTED TO HOT WATER HEATER. REFER TO EQUIPMENT DRAWINGS FOR EXACT LOCATION OF HOT WATER HEATER.
- 13 TERMINATE EXHAUST DUCT 18" ABOVE FINISHED FLOOR. CUT DUCT AT 45 DEGREES COVER DUCT WITH WIRE MESH SCREEN.
- 14 CUT DUCT AT 45 DEGREE ANGLE WITH WIRE MESH SCREEN.
- 15 PROVIDE 12x4 TYPE 2 SUPPLY GRILLE AT THIS LOCATION. BALANCE TO 100 CFM.



**FIRST FLOOR DUCTWORK PLAN - AREA A**  
1/8" = 1'-0"

Project:  
VILLAGE OF ARDSLEY, NY

NEW PUBLIC WORKS FACILITY  
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Revisions:

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0' 4' 8' 16'  
SCALE: 1/8" = 1'-0"

Date: APRIL 7, 2022  
Drawn By: JDH  
Reviewed By: TES  
Approved By: BAB  
W&S Project No: N2190088

Drawing Title:  
**FIRST FLOOR DUCTWORK PLAN - AREA A**

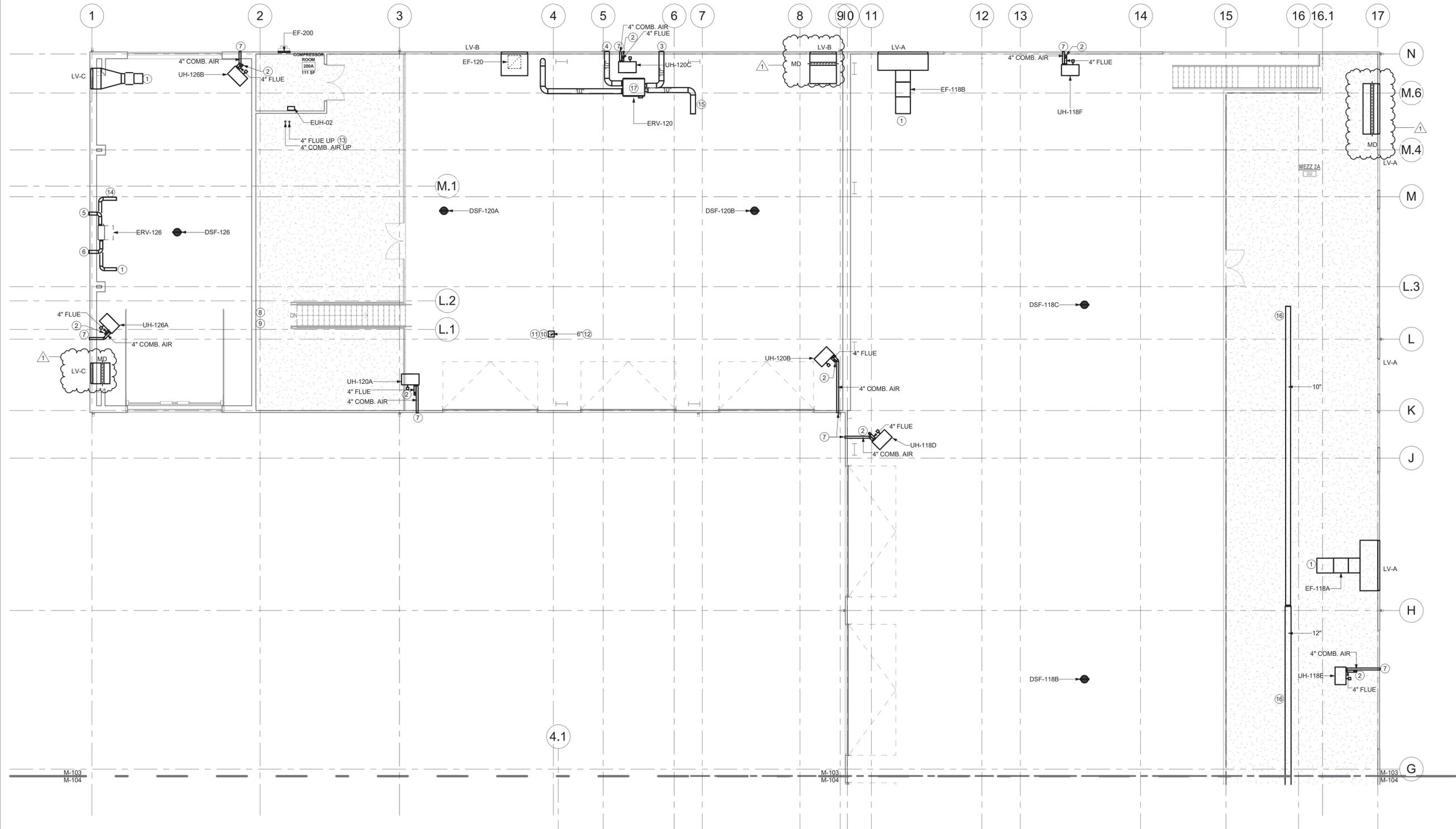
Sheet Number:  
**M101**

**M-103 DRAWING NOTES**

- 1 CUT DUCT AT 45 DEGREE ANGLE WITH WIRE MESH SCREEN.
- 2 PROVIDE 3" GALVANIZED COMBUSTION AIR DUCT FOR UNIT HEATER. TERMINATE PER UNIT HEATER MFG INSTALLATION INSTRUCTIONS.
- 3 PROVIDE 10" WALL CAP WITH BACKDRAFT DAMPER.
- 4 PROVIDE 10" WALL CAP.
- 5 PROVIDE 6" WALL CAP WITH BACKDRAFT DAMPER.
- 6 PROVIDE 6" WALL CAP.
- 7 PROVIDE 3" GALVANIZED COMBUSTION AIR DUCT FOR UNIT HEATER. TERMINATE PER UNIT HEATER MFG INSTALLATION INSTRUCTIONS.

**M-103 DRAWING NOTES**

- 8 PROVIDE HONEYWELL 301C00 AND GAS DETECTION SYSTEM AT THIS LOCATION MOUNT 6'-0" ABOVE FINISHED FLOOR.
- 9 LOCATE HONEYWELL E3POINT SENSOR FOR GAS DETECTION SYSTEM WITH ALARM LEVEL LIGHTS AND HORN AT THIS LOCATION. SENSOR SHALL BE MOUNTED 5'-0" ABOVE FINISHED FLOOR.
- 10 PROVIDE MONOXIVENT SPRING OPERATED REEL MODEL 9000-W, 6" DIAMETER, 36' HOSE LENGTH.
- 11 PROVIDE MONOXIVENT D20 FAN, 208V 3 PHASE MOTOR, SIZE 900 CFM 6" ESP.
- 12 6" DUCT UP FROM EXHAUST REEL AND ASSOCIATED FAN. TERMINATE ABOVE ROOF WITH GOOSENECK.
- 13 TERMINATE 4" FLUE AND 4" COMBUSTION AIR IN A CONCENTRIC VENT ABOVE ROOF.
- 14 PROVIDE 12x4 TYPE 2 SUPPLY GRILLE AT THIS LOCATION. BALANCE TO 100 CFM.
- 15 PROVIDE 12x8 TYPE 2 SUPPLY GRILLE AT THIS LOCATION. BALANCE TO 250 CFM.
- 16 PROVIDE 12x8 TYPE 2 SUPPLY GRILLE AT THIS LOCATION. BALANCE TO 300 CFM.
- 17 MOUNT ERV BELOW UNIT HEATER.



MEZZANINE FLOOR DUCTWORK PLAN - AREA A  
1/8" = 1'-0"

Project:  
VILLAGE OF ARDSLEY, NY



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RHINEBECK ARCHITECTURE

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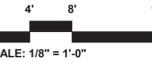
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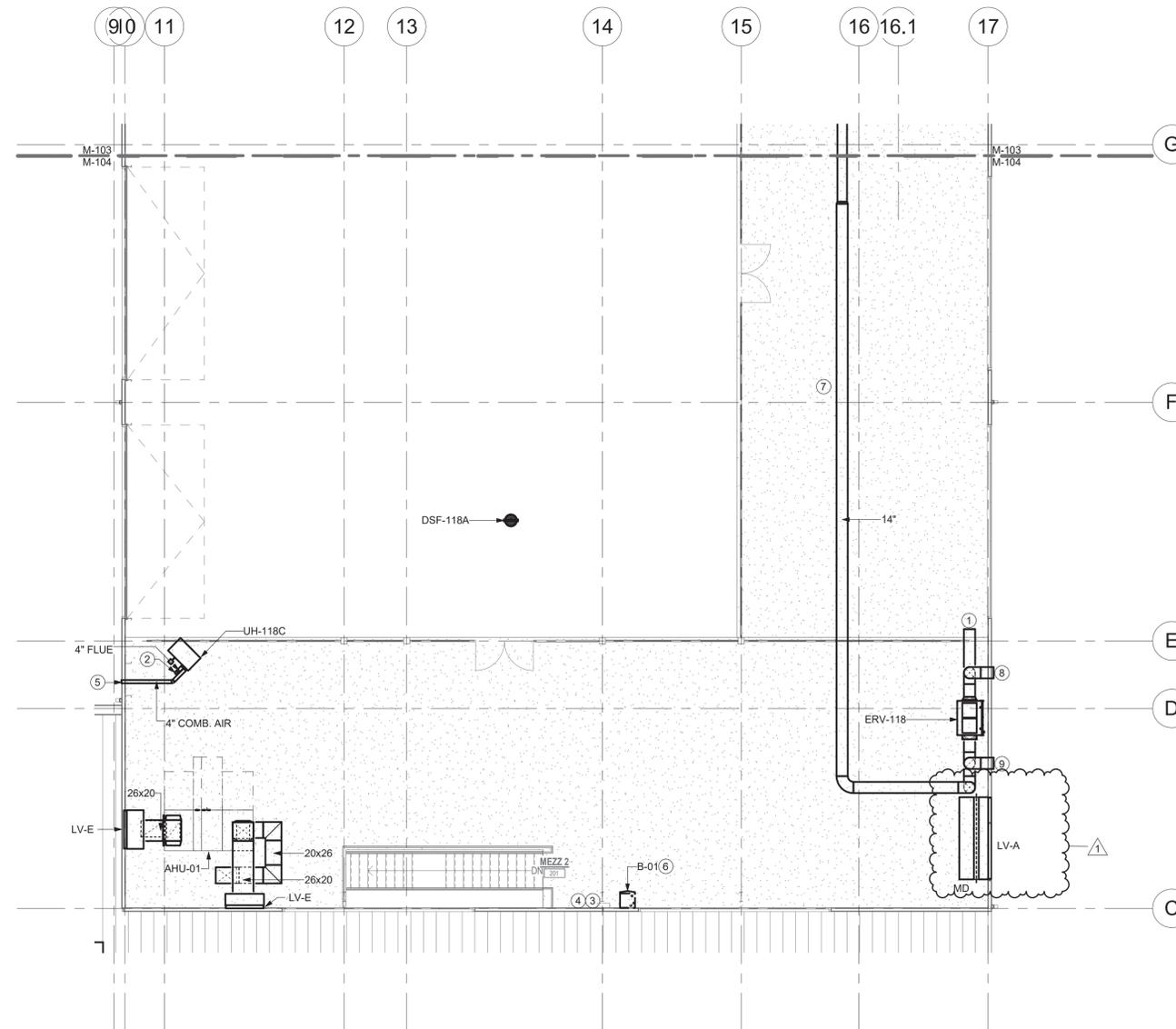
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Reviewed By: TES  
Approved By: BAB  
W&S Project No: N2190088

Drawing Title:  
MEZZANINE DUCTWORK PLAN - AREA A

Sheet Number:  
**M103**

**M-104 DRAWING NOTES**

- 1 CUT DUCT AT 45 DEGREE ANGLE WITH WIRE MESH SCREEN.
- 2 PROVIDE 3" DOUBLE WALL B VENT PER SPECIFICATION. TERMINATE WITH RAIN CAP.
- 3 PROVIDE HONEYWELL 301CC0 AND GAS DETECTION SYSTEM AT THIS LOCATION MOUNT 6'-0" ABOVE FINISHED FLOOR.
- 4 LOCATE HONEYWELL E3POINT SENSOR FOR GAS DETECTION SYSTEM WITH ALARM LEVEL LIGHTS AND HORN AT THIS LOCATION. SENSOR SHALL BE MOUNTED 5'-0" ABOVE FINISHED FLOOR.
- 5 PROVIDE 3" GALVANIZED COMBUSTION AIR DUCT FOR UNIT HEATER. TERMINATE PER UNIT HEATER MFG INSTALLATION INSTRUCTIONS.
- 6 TERMINATE 3" COMBUSTION AIR AND 3" FLUE FROM B-01 IN CONCENTRIC VENT ON ROOF.
- 7 PROVIDE 12x8 TYPE 2 SUPPLY GRILLE AT THIS LOCATION. BALANCE TO 300 CFM.
- 8 PROVIDE 14" WALL CAP.
- 9 PROVIDE 14" WALL CAP WITH BACKDRAFT DAMPER.



1 MEZZANINE FLOOR DUCTWORK PLAN - AREA B  
1/8" = 1'-0"

Project:  
VILLAGE OF ARDSLEY, NY



NEW PUBLIC WORKS FACILITY  
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Revisions:

Rev	Date	Description
1	04/22/22	ADDENDUM NO. 1

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PROJECT TRUE

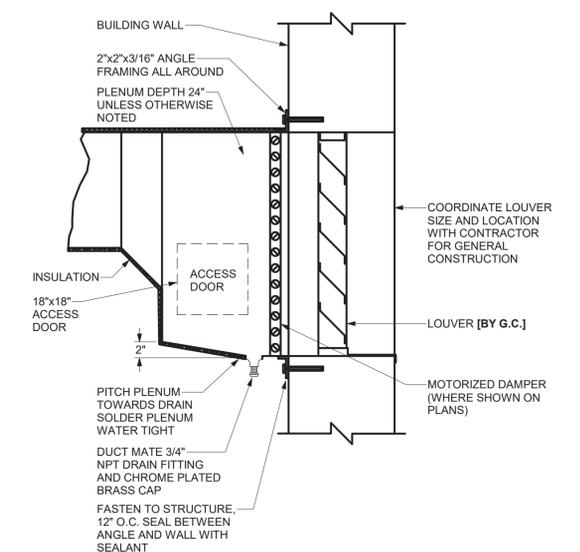


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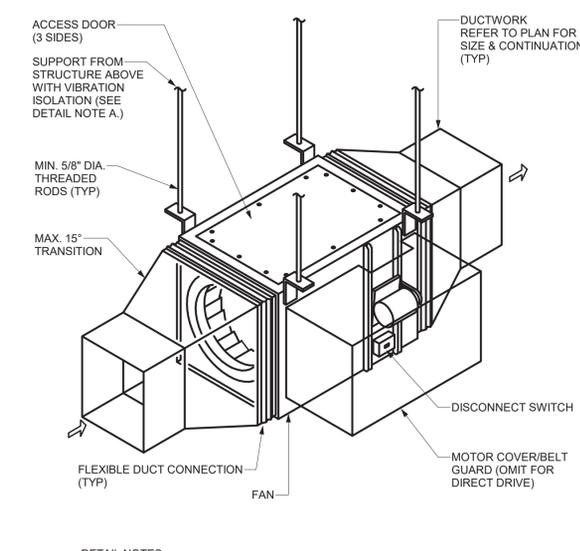
Date: APRIL 7, 2022  
Drawn By: JDH  
Reviewed By: TES  
Approved By: BAB  
W&S Project No: N2190088

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MEZZANINE DUCTWORK PLAN - AREA B

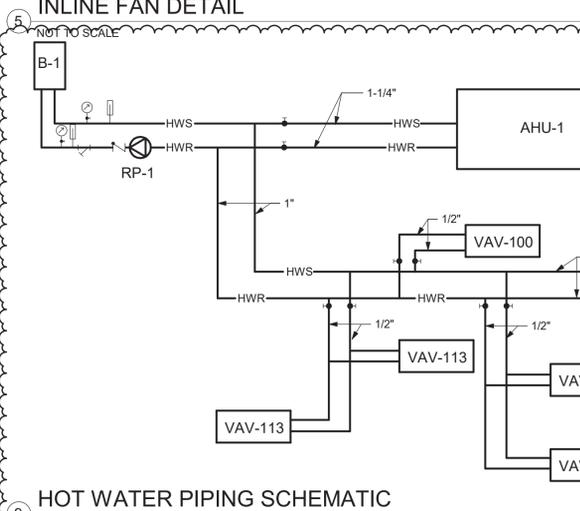
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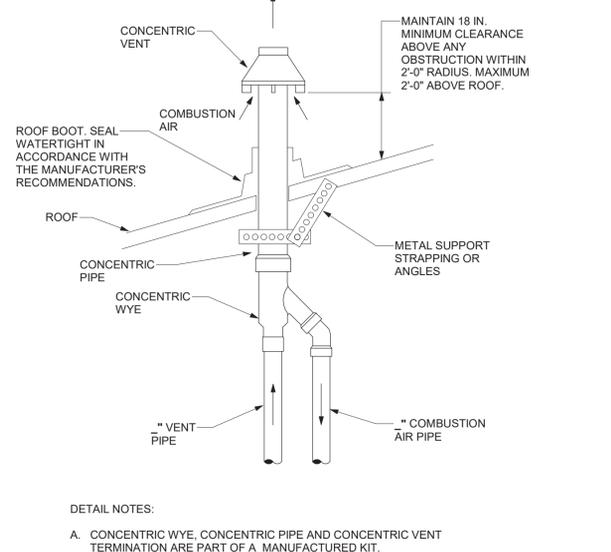
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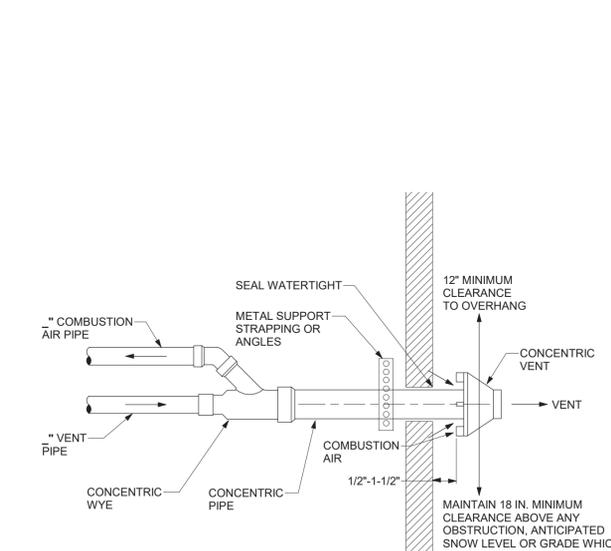
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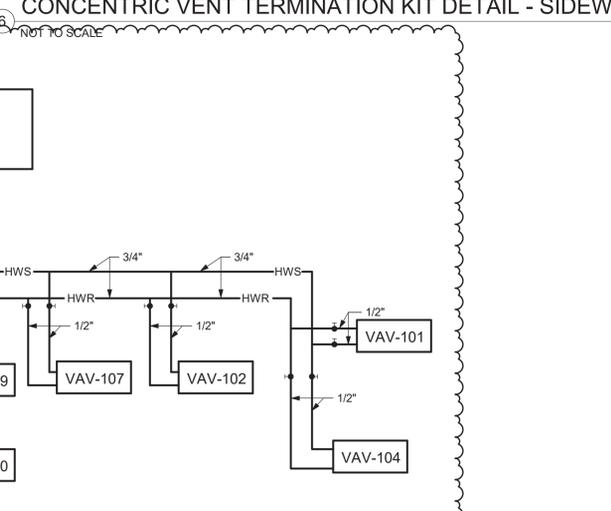
**9 HOT WATER PIPING SCHEMATIC**  
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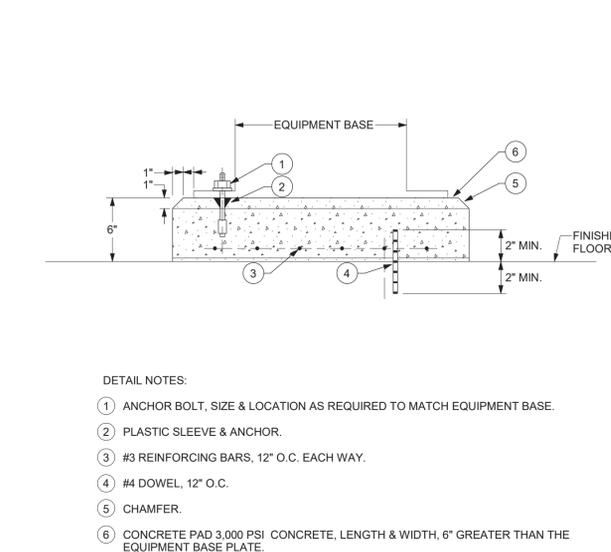
**2 CONCENTRIC VENT TERMINATION KIT DETAIL - ROOF**  
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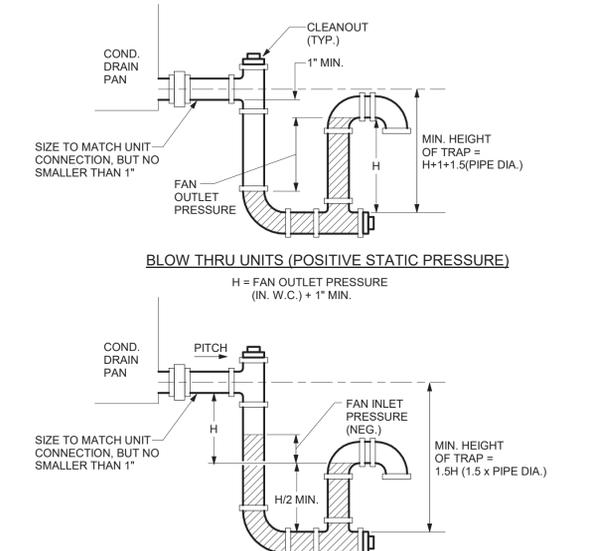
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**7 ROOFTOP UNIT CONDENSATE DRAIN TRAP DETAIL**  
NOT TO SCALE



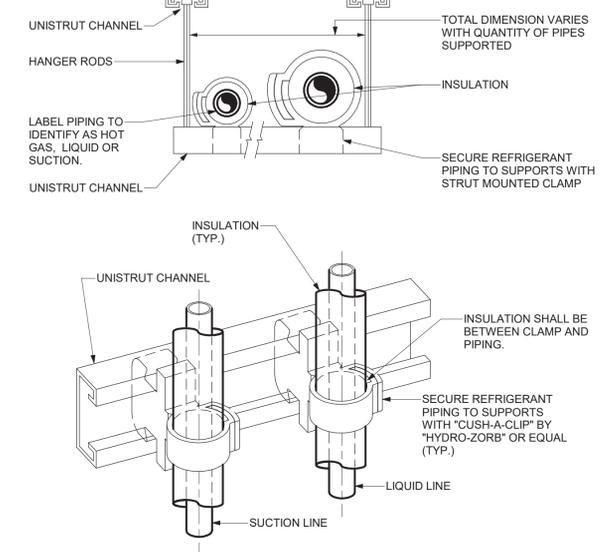
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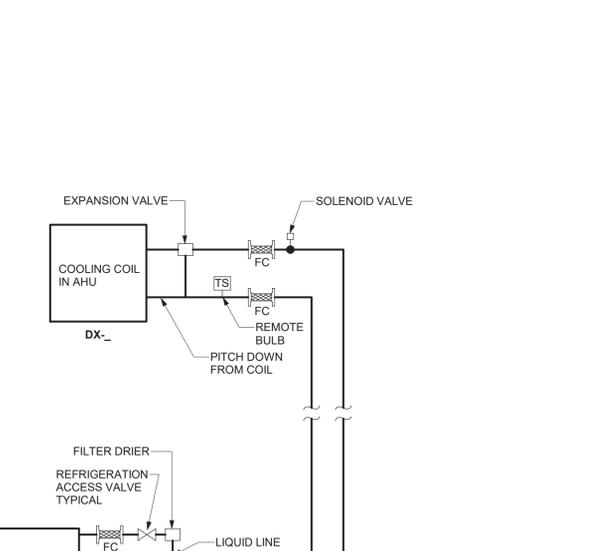
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NOT TO SCALE



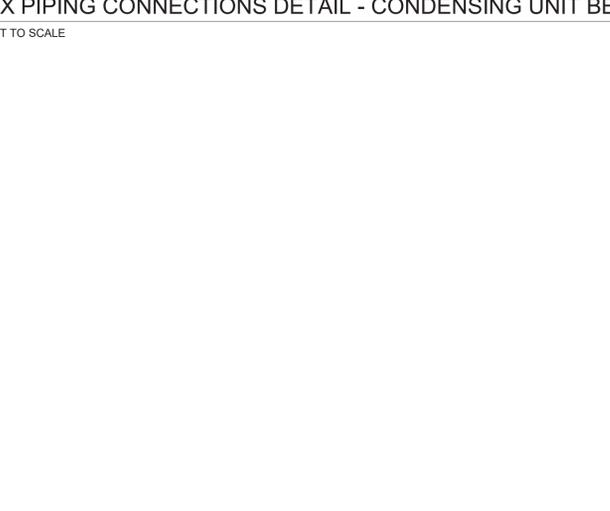
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**4 REFRIGERANT PIPE SUPPORT DETAIL**  
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**7 ROOFTOP UNIT CONDENSATE DRAIN TRAP DETAIL**  
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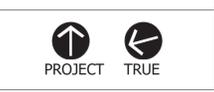
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SCALE: AS NOTED

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Reviewed By: TES

Approved By: BAB

W&S Project No: N2190088

**GENERAL NOTES**

(APPLY TO ALL DRAWINGS)

- A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES TO PERFORM ALL OPERATIONS REQUIRED FOR THE COMPLETE INSTALLATION AND RELATED WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. ELECTRIC EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
- B. PROVIDE ALL ELECTRICAL EQUIPMENT CONNECTIONS.
- C. PROVIDE ALL REQUIRED SUPPORTS AND ACCESSORIES.
- D. PROVIDE ALL WORK IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE LATEST EDITION OF THE:
  1. BUILDING CODE OF NEW YORK STATE
  2. ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
  3. OSHA REQUIREMENTS
  4. LOCAL MUNICIPAL ORDINANCES AND CODES
  5. AUTHORITY HAVING JURISDICTION (AHJ)
  6. SERVING UTILITY COMPANIES
- E. PROVIDE ELECTRICAL INSPECTION CERTIFICATE FROM INSPECTION AGENCY RECOGNIZED AS ACCEPTABLE FROM THE AHJ.
- F. ALL RECEPTACLES INDICATED AS GFI TYPE MUST BE A GFI RECEPTACLE. CONNECTING NORMAL RECEPTACLES DOWNSTREAM OF ONE GFI RECEPTACLE IS NOT ACCEPTABLE PROVIDE TEMPORARY ELECTRICAL SERVICE IN SIZES TO ACCOMMODATE CONSTRUCTION WHERE REQUIRED.
- G. REPAIR OR REPLACE ALL DEFECTS IN MATERIAL OR WORKMANSHIP WITHIN ONE YEAR OF CONSTRUCTION CLOSE OUT DATE AT NO ADDITIONAL COST TO THE OWNER.
- H. PERFORM ALL OPERATIONS REQUIRED FOR A COMPLETE SYSTEM TEST. PRIOR TO CLOSE OUT DATE SUBMIT ALL SATISFACTORY SYSTEM TEST RESULTS FOR RECORD.
- I. SUBMITTALS:
  1. ALL ITEMS OF EQUIPMENT AND MATERIALS PROVIDED SHALL BE SUBMITTED FOR ENGINEERING REVIEW
  2. SUBMIT A MINIMUM OF THREE COPIES OF SHOP DRAWINGS/PRODUCT DATA INFORMATION.
- J. CONTRACTOR IS HERE BY CAUTIONED THAT ELECTRIC POWER CHARACTERISTICS (VOLTAGE, PHASE, HORSEPOWER, AMPERAGE, ETC.) OF EQUIPMENT IS BASED ON AVAILABLE INFORMATION AT THE TIME OF PROJECT DESIGN. CONTRACTOR MUST VERIFY CHARACTERISTICS FOR EACH PIECE OF NEW EQUIPMENT PRIOR TO ORDERING ELECTRICAL EQUIPMENT. INDICATE VERIFICATION ON SUBMITTALS.
- K. LOCATIONS INDICATED FOR LIGHTING FIXTURES ARE APPROXIMATE. LOCATE FIXTURES AS REQUIRED TO AVOID INTERFERENCE WITH BUILDING STEEL, PIPING, DUCTWORK, CONDUIT, DIFFUSERS, GRILLES, SPEAKERS, SMOKE DETECTORS, ETC. FIELD COORDINATE EXACT LOCATIONS AS NEAR AS POSSIBLE TO THE LOCATION INDICATED. VERIFY COMPLIANCE WITH NEC ARTICLE 410.16 FOR INSTALLATION OF LIGHT FIXTURES IN CLOTHES CLOSETS, PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
- L. EXACT LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, EXIT SIGNS, ETC. SHALL BE COORDINATED WITH OTHER CEILING MOUNTED EQUIPMENT TO AVOID CONFLICT. LOCATE DEVICES AS NEAR AS POSSIBLE TO THE LOCATION INDICATED. FIRE ALARM SMOKE AND HEAT DETECTORS SHALL BE LOCATED 3'-0" MINIMUM FROM HVAC DIFFUSERS, REGISTERS, GRILLES, ETC. SMOKE DETECTORS AT SMOKE DOORS MUST BE INSTALLED WITHIN 5'-0" OF THE DOORS (REFER TO NFPA 72).
- M. ALL NEW CIRCUITING SHALL BE CONCEALED (EXCEPT IN UNFINISHED SPACES). PROVIDE ALL CUTTING AND PATCHING AS REQUIRED.
- N. CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT AND OTHER CONTRACTORS. REFER TO ARCHITECTURAL PLANS FOR CASEWORK LAYOUT, ELEVATIONS, ETC. COORDINATE WITH LOCATIONS OF ELECTRICAL DEVICES AND OUTLETS
- O. EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS.
- P. PROVIDE CONDUIT/WIRING (CIRCUITING) AND REQUIRED CONNECTIONS TO ALL DEVICES/ EQUIPMENT. CONNECT TO CIRCUIT(S) AS INDICATED.
- Q. COORDINATE ALL WORK WITH OTHER TRADES; REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATING LOCATIONS.
- R. RE-INSTALL REMOVED SYSTEM DEVICES REMOVED AS A RESULT IN WALL, PARTITION OR CEILING REPLACEMENT WORK. PROVIDE POWER AND COMMUNICATION WALL AND PARTITION MOUNTED DEVICES AND RECONNECT TO EXISTING SYSTEMS. CLEAN EXISTING CEILING MOUNTED DEVICES. EXTEND EXISTING SYSTEM CIRCUITS AS REQUIRED FOR REINSTALLATION. COORDINATE WITH EXISTING SYSTEM MANUFACTURER.
- S. SLEEVE AND SEAL ALL WALL AND FLOOR PENETRATIONS. PROVIDE APPROPRIATE FIRE STOPPING FOR ALL PENETRATIONS.
- T. SHARED NEUTRAL SHALL NOT BE ALLOWED ON ANY BRANCH CIRCUITS. MAINTAIN SERVICE CLEARANCES OF ALL EQUIPMENT. ADVISE OTHER TRADES OF SERVICE CLEARANCES AND ENSURE NO SERVICES OR TRADES RUN THROUGH SERVICE AREA.
- U. ALL WIRING INDICATED ON PLANS IS TO BE COPPER WIRING UNLESS OTHERWISE NOTED.
- V. REFER TO ONE-LINE DIAGRAM. RATINGS TO MATCH THE RATING OF THE WALL/CEILING. UTILIZE FIRE RATED PUDDY PADS IN THESE LOCATIONS.
- W. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING OF RECEPTACLES IN AND NEAR ALL MILLWORK AND CABINETRY.
- X. THE CONTRACTOR MUST FOLLOW FEDERAL AND STATE ELECTRICAL SAFETY PRACTICE INCLUDING LOCK OUT TAG OUT (LOTO). THE CONTRACTOR MUST AFFIX THEIR COMPANY'S INDIVIDUAL LOTO LOCKS AND TAGS TO CONTROL HAZARDOUS ENERGIES AND TO PREVENT INJURIES

**COORDINATION NOTES**

(APPLY TO ALL DRAWINGS)

- A. VERTICAL CLEARANCES BY SPACE:
  - a. VEHICLE STORAGE 19'-8"
  - b. MAINTENANCE 23'-0"
  - c. WASH BAY 23'-0"
  - d. MEZZANINE 7'-6"
  - e. SHOPS 19'-0"
  - f. CANOPY 21'-8"

**ABBREVIATIONS**

ABBREV.	DESCRIPTION
A	AMPERE
AIC	AMPERE INTERRUPTING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
ASD	ADJUSTABLE SPEED DRIVE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIOVISUAL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CLG	CEILING
CM	CONSTRUCTION MANAGER
CU	COPPER
DN	DOWN
EA	EACH
EC	ELECTRICAL CONTRACTOR
EG	EQUIPMENT GROUND
ELEC	ELECTRIC
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
G/GND	GROUND
HH	HAND HOLE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
MC	METAL CLAD CABLE
MCB	MAIN CIRCUIT BREAKER
MH	MAN HOLE
MLO	MAIN LUG ONLY
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NM	NON-METALLIC SHEATHED CABLE
NMT	NON-METALLIC TUBING
NTS	NOT TO SCALE
OH	OVERHEAD
PH	PHASE
PC	PLUMBING CONTRACTOR OR PHOTO CELL
POLE	POLE
RMC	RIGID METAL CONDUIT
SP	SPACE
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
STP	SHIELDED TWISTED PAIR
SW	SWITCH
SWBD	SWITCHBOARD
TV	TELEVISION
TYP	TYPICAL
UC	MOUNTED UNDER COUNTER HEIGHT OR UNDERGROUND COMMUNICATION
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
V	VOLT
W	WIRE OR WATT
WP	WEATHERPROOF
XP	EXPLOSION PROOF

**POWER DISTRIBUTION AND CONTROL**

SYMBOL	DESCRIPTION
T-XX	TRANSFORMER, REFER TO ONE LINE DIAGRAM AND TRANSFORMER SCHEDULE FOR SIZE AND TYPE
PP-XX	208/120 VOLT RECESSED PANELBOARD
PP-XX	208/120 VOLT PANELBOARD
PP-XX	480/277 VOLT RECESSED PANELBOARD
PP-XX	480/277 VOLT PANELBOARD
[Symbol]	DISTRIBUTION PANELBOARD.
[Symbol]	MOTOR STARTER. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR SIZE AND TYPE.
[Symbol]	DISCONNECT SWITCH AMP RATING AS INDICATED
[Symbol]	FUSED DISCONNECT SWITCH AMP RATING AS INDICATED
[Symbol]	COMBINATION DISCONNECT SWITCH AND MAGNETIC STARTER REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE
ASD	ADJUSTABLE SPEED DRIVE
[Symbol]	ELECTRICAL CONNECTION. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR DESCRIPTION. LETTERS AND NUMBERS REFER TO "ITEM DESIGNATION" ON THE SCHEDULE.
ACCU-*	ELECTRICAL CONNECTION. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR DESCRIPTION. LETTERS AND NUMBERS REFER TO "ITEM DESIGNATION" ON THE SCHEDULE.
[Symbol]	SINGLE POINT CONNECTION TO EQUIPMENT
S <sub>M</sub>	MANUAL MOTOR STARTER
SPD	SURGE PROTECTIVE DEVICE
[Symbol]	EQUIPMENT CONNECTION, REFER TO EQUIPMENT SCHEDULE FOR WIRING REQUIREMENTS NUMBER INDICATES ITEM ON SCHEDULE.

**BASIC MATERIALS AND METHODS**

SYMBOL	DESCRIPTION
[Symbol]	GANGED DEVICES
[Symbol]	TWO PIECE PREWIRED SURFACE RACEWAY
[Symbol]	DIVIDABLE SURFACE RACEWAY WITH DEVICES AS INDICATED.
[Symbol]	SPECIAL PURPOSE RECEPTACLE. PROVIDE PROPER VOLTAGE, CLASS, CURRENT RATING AND NEMA CONFIGURATION AS REQUIRED BY BRANCH CIRCUIT AND/OR MATCH CAP ON EQUIPMENT BEING FURNISHED BY OTHERS. PROVIDE CORD AND CAP.
[Symbol]	SUBSCRIPT INDICATES TYPE: # - NEMA TYPE D - DRYER RECEPTACLE R - RANGE RECEPTACLE T - TWISTLOCK X - MATCH EQUIPMENT CAP
J	JUNCTION BOX
[Symbol]	PUSH BUTTON
E <sub>B</sub>	EMERGENCY SHUTDOWN PUSH BUTTON, SUBSCRIPT INDICATE TYPE: B - BOILER G - GENERATOR P - POWER
[Symbol]	DUPLEX RECEPTACLE, CEILING MOUNTED
[Symbol]	TWO DUPLEX RECEPTACLE, SINGLE COVER
TC	TIME CLOCK
HD	ELECTRIC HAND DRYER
HH	UNDERGROUND HANDHOLE
MH	MANHOLE
(X)	REFERENCE TO DRAWING NOTE
[Symbol]	EXISTING WIRING OR EQUIPMENT, SOLID LIGHT LINE WEIGHT IS EXISTING.
[Symbol]	HEAVY SOLID LINE WEIGHT IS NEW

**ONE LINE DIAGRAM**

SYMBOL	DESCRIPTION
[Symbol]	NON-FUSED DISCONNECT SWITCH
[Symbol]	THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER
[Symbol]	CIRCUIT BREAKER SOLID STATE TRIP CHARACTERISTICS INDICATED BY SUBSCRIPTS: AT - TRIP COIL AMPERE RATING AF - FRAME SIZE AMPERE RATING L - LONG TIME TRIP S - SHORT TIME TRIP I - INSTANTANEOUS TRIP G - GROUND FAULT TRIP
[Symbol]	CURRENT TRANSFORMER
M	UTILITY METER
PM	POWER METER
GRAP	GENERATOR REMOTE ANNUNCIATION PANEL
[Symbol]	TRANSFORMER, REFER TO SCHEDULE OR ONE-LINE
G	GENERATOR SET
[Symbol]	TRANSFER SWITCH, RATING AS INDICATED. ATS = AUTOMATIC
[Symbol]	GROUND CONNECTION
NAME	PANELBOARD

**LIGHTING CONTROL**

SYMBOL	DESCRIPTION
S <sub>3,b</sub>	TOGGLE SWITCH, VOLTAGE AS INDICATED ON FIXTURE SCHEDULE. SUBSCRIPTS INDICATE TYPE: 3 - THREE WAY SWITCH 4 - FOUR WAY SWITCH LV - LOW VOLTAGE WP - WEATHER PROOF EP - EXPLOSION PROOF OS - OCCUPANCY SENSOR VS - VACANCY SENSOR a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES
D <sub>3,a,b,c</sub>	DIMMER SWITCH, SUBSCRIPTS INDICATE TYPE: LV - LOW VOLTAGE OS - OCCUPANCY SENSOR VS - VACANCY SENSOR a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES
PC	PHOTOELECTRIC CONTROL
OS	CEILING MOUNTED OCCUPANCY SENSOR a,b,c - INDICATES CONTROL ZONES
VS	CEILING MOUNTED VACANCY SENSOR a,b,c - INDICATES CONTROL ZONES

**DRAWING SYMBOLS**

[Symbol]	SECTION DETAIL NUMBER
[Symbol]	VIEW REFERENCE SHEET NUMBER
[Symbol]	DETAIL/ENLARGED PLAN NUMBER
[Symbol]	VIEW REFERENCE SHEET NUMBER
[Symbol]	ELEVATION DETAIL NUMBER
[Symbol]	VIEW REFERENCE SHEET NUMBER

**FIRE ALARM**

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
S	SMOKE DETECTOR
H	COMBINATION SET TEMPERATURE AND RATE OF RISE HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR
DSD	DUCT SMOKE DETECTOR
F <sup>15</sup>	NOTIFICATION APPLIANCE, AUDIBLE AND VISUAL # INDICATES STROBE CANDELA IF OTHER THAN 75. G - INDICATES CEILING
F <sup>15</sup> K	NOTIFICATION APPLIANCE, VISUAL # INDICATES STROBE CANDELA IF OTHER THAN 75. C - INDICATES CEILING
CO <sup>15</sup>	CARBON MONOXIDE NOTIFICATION APPLIANCE, AUDIBLE AND VISUAL; # INDICATES STROBE CANDELA IF OTHER THAN 75
TS	TAMPER SWITCH
WF	SPRINKLER WATERFLOW SWITCH (PADDLE OR PRESSURE SWITCH TYPE)
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATION PANEL

**ACCESS CONTROL**

SYMBOL	DESCRIPTION
DC	DOOR CONTACT SWITCH, PROVIDE SINGLE GANG JUNCTION BOX AND 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING SPACE. (HARDWARE AND WIRING BY OTHERS)
CR	CARD READER, PROVIDE DOUBLE GANG JUNCTION BOX AND 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING SPACE. (HARDWARE AND WIRING BY OTHERS)

**CLOSED CIRCUIT TELEVISION**

SYMBOL	DESCRIPTION
[Symbol]	SECURITY CAMERA, PROVIDE SINGLE GANG JUNCTION BOX AND 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING. (CAMERA AND CABLING BY OTHERS)

**COMMUNICATIONS**

SYMBOL	DESCRIPTION
[Symbol]	COMBINATION POWER AND TELE/DATA OUTLET; "#P" INDICATES QUANTITY OF DUPLEX RECEPTACLES REQUIRED. PROVIDE SEPARATE SINGLE-GANG BOX AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE FOR TELE/DATA OUTLET.  EXAMPLE SYMBOL SHOWN INDICATES : (2) DUPLEX RECEPTACLES AND (1) SINGLE-GANG TELE/DATA WALL BOX.
WAP	WIRELESS ACCESS POINT (ALL WORK BY OTHERS)
VP	VIDEO PROJECTOR MOUNT

**LUMINAIRES**

SYMBOL	DESCRIPTION
[Symbol]	LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES CONTROL DESIGNATION.
[Symbol]	WALL MOUNTED LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES CONTROL DESIGNATION.
NL	LUMINAIRE CONNECTED TO NIGHT LIGHT CIRCUIT, UNSWITCHED
EM	LUMINAIRE WITH INTEGRAL EMERGENCY BATTERY BACKUP
INV	LUMINAIRE CONNECTED TO EMERGENCY LIGHTING INVERTER
[Symbol]	LUMINAIRE STRIP
[Symbol]	WALL MOUNTED EMERGENCY LUMINAIRE WITH BATTERY PACK
[Symbol]	CEILING MOUNTED EXIT LUMINAIRE
[Symbol]	WALL MOUNTED EXIT LUMINAIRE

Project:

VILLAGE OF ARDSLEY, NY



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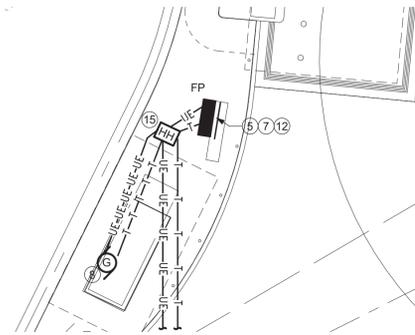
W&S Project No: N2190088

Drawing Title:

ELECTRICAL  
LEGEND &  
ABBREVIATIONS

Sheet Number:

E001



2 ELECTRICAL SITE PLAN - ENLARGED GENERATOR & FUEL ISLAND CABINET

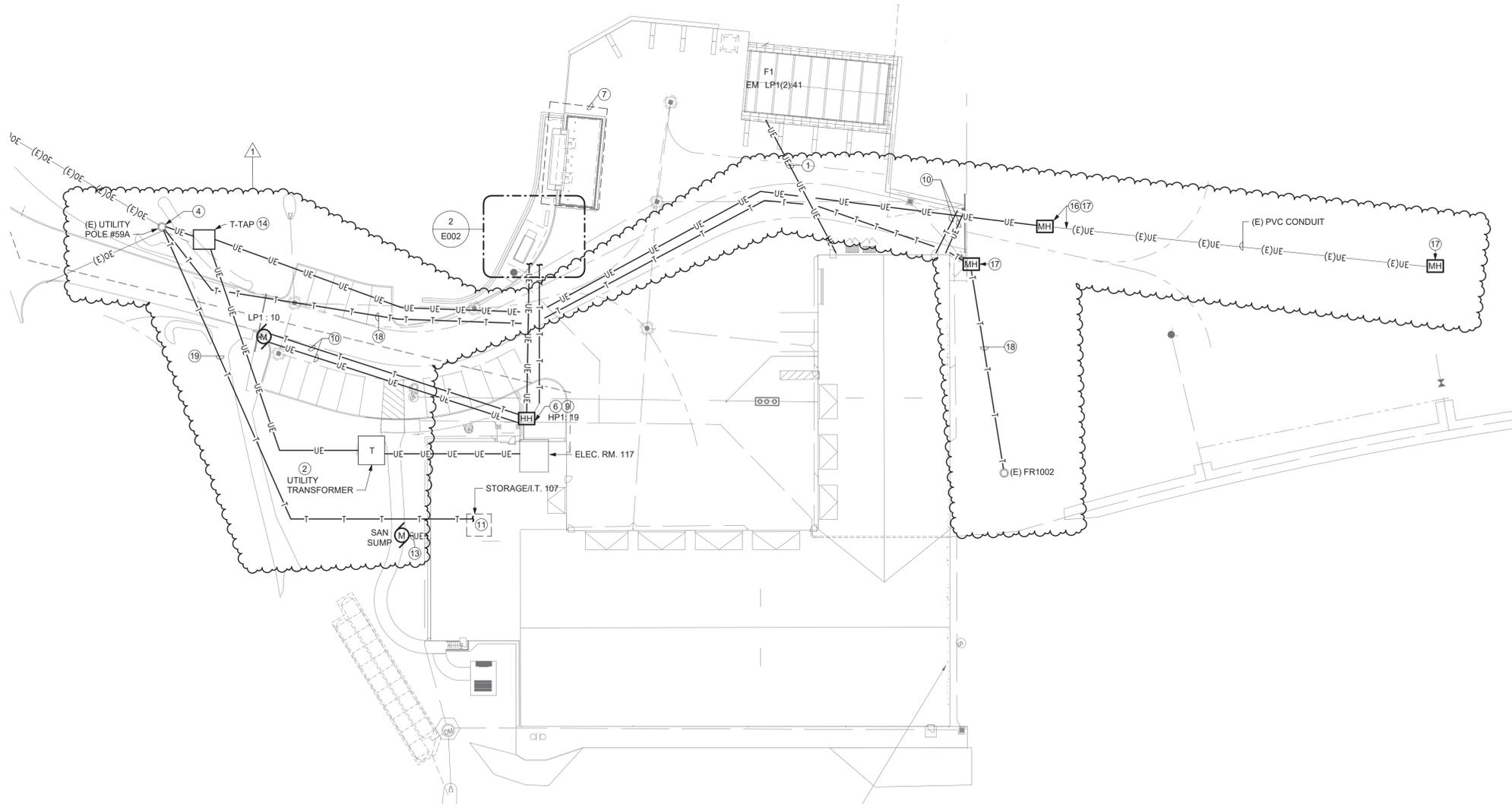
1" = 10'-0"

**GENERAL NOTES:**

- A. REFER TO ONE-LINE DIAGRAM, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- B. ALL CONDUITS BENEATH AREAS OF VEHICULAR TRAFFIC SHALL BE RIGID METAL CONDUIT (RMC). RMC SHALL EXTEND A MINIMUM OF 24" BEYOND THE AREA OF VEHICULAR TRAFFIC. REFER TO TYPICAL DUCTBANK SECTION DETAIL.
- C. ALL CONDUITS NOT BENEATH AREAS OF VEHICULAR TRAFFIC SHALL BE SCHEDULE 80 RIGID NONMETALLIC CONDUIT (DIRECT BURIED). REFER TO TYPICAL DIRECT BURIED CONDUIT DETAIL.
- D. PROVIDE FIRESTOPPING AND WATERPROOF SEALS AS REQUIRED WHERE PENETRATING EXTERIOR WALLS.
- E. THE EC SHALL BE RESPONSIBLE FOR CONDUIT, WIRE, TRENCHING, BACKFILLING, AND SITE REPAIRATIONS.

**E002 DRAWING NOTES:**

- 1. PROVIDE (1) 1" CONDUIT FOR SHED ELECTRICAL LOADS.
- 2. PROVIDE UTILITY TRANSFORMER PAD. REFER TO UTILITY TRANSFORMER PAD DETAIL FOR REQUIREMENTS.
- 3. PROVIDE GENERATOR AND CONCRETE PAD. REFER TO ONE-LINE DIAGRAM AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 4. PROVIDE (1) 4" FROM T-TAP TO WITHIN 2' OF THE EXISTING UTILITY POLE FOR NEW PRIMARY SERVICE CONDUCTORS INSTALLED BY THE UTILITY COMPANY. PROVIDE WITH REFERENCE MARK AT END OF CONDUIT RUN. SEE UTILITY POLE CONDUIT RISER DETAIL AND ONE-LINE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 5. PROVIDE FUEL ISLAND PANEL "FP" IN WEATHERPROOF ENCLOSURE. ENCLOSURE PROVIDED BY OTHERS. PROVIDE 2" COMMUNICATIONS CONDUIT FROM ENCLOSURE TO HANDHOLE.
- 6. PROVIDE (2) POWER HANDHOLES AND 1 DATA HANDHOLE FOR CONDUITS COMING INTO/OUT OF THE BUILDING. REQUIRED CONDUIT INCLUDE BUT ARE NOT LIMITED TO GENERATOR FEEDER (ADD ALTERNATE 6), MOTORIZED GATE, SITE LIGHTING CIRCUIT, FUEL ISLAND FEEDER, AND TELE/DATA SERVICE. REFER TO ONE LINE DIAGRAM AND ELECTRICAL SCHEDULES AND FLOOR PLANS FOR INDIVIDUAL CIRCUIT REQUIREMENTS. PROVIDE (1) SPARE 2" CONDUIT TO EACH HANDHOLE FROM INSIDE OF THE BUILDING.
- 7. FUEL ISLAND IS PART OF ALTERNATE 2.
- 8. GENERATOR IS PART OF ALTERNATE 6. PROVIDE PAD MOUNTED GENERATOR, REFER TO DRAWING E503.
- 9. PROVIDE (1) 277V, 20A BRANCH CIRCUIT FOR SITE LIGHTING BY OTHERS. TIE INTO TIMECLOCK.
- 10. PROVIDE UNDERGROUND POWER AND 1" SPARE DATA CONDUIT FOR MOTORIZED VEHICLE GATE. REFER TO EQUIPMENT CONTROL SCHEDULE FOR GATE POWER REQUIREMENTS.
- 11. PROVIDE 2" SPARE COMMUNICATIONS UNDERGROUND CONDUIT TO UTILITY POLE INDICATED BY DRAWING NOTE 4.
- 12. PROVIDE MONITOR MODULE AND FIRE ALARM CIRCUIT FOR CONNECTION TO FUEL ISLAND FIRE SUPPRESSION SYSTEM. ROUTE FIRE ALARM CIRCUIT IN SPARE FUEL ISLAND COMMUNICATIONS CONDUIT.
- 13. EMPTY CONDUIT WITH PULL STRING FOR ROUTING OF PUMP CABLE PROVIDED BY OTHERS. SEE DRAWING E102 FOR DETAILS ON CONDUIT.
- 14. PROVIDE S&C 15KV PME-9 PAD MOUNTED T-TAP SWITCH IN ACCORDANCE WITH THE UTILITY COMPANY, WITHIN 10' OF THE UTILITY POLE. COORDINATE REQUIREMENTS WITH THE UTILITY COMPANY. PROVIDE CONCRETE PAD PER CONCRETE PAD DETAIL.
- 15. PROVIDE (2) HANDHOLES, (1) FOR POWER AND (1) FOR COMMUNICATIONS.
- 16. PROVIDE OLD CASTLE DB-9 MANHOLE. REFER TO MANHOLE DETAIL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 17. PROVIDE MANHOLE TO TIE INTO EXISTING UNDERGROUND PVC CONDUIT. EXTEND WIRING THROUGH EXISTING CONDUIT AND TERMINATE INSIDE NEXT MANHOLE DOWNSTREAM OF THIS LOCATION. EXISTING UNDERGROUND CONDUIT IS ROUGHLY 175' IN LENGTH. CONTRACTOR TO VERIFY EXACT LENGTH IN THE FIELD.
- 18. PROVIDE THE FOLLOWING CONDUITS FOR SERVICE PROVIDERS THROUGH ENTIRETY OF SITE WHERE UNDERGROUND COMMUNICATIONS CONDUIT IS SHOWN: (2) 4" FOR VERIZON, (1) 4" FOR CROWN CASTLE, (1) 4" FOR ALTICE. COORDINATE WITH SERVICE PROVIDERS. PROVIDE CONDUIT RISERS AT EACH END, FOR EACH CONDUIT.
- 19. PROVIDE 4" UNDERGROUND CONDUIT FROM EXISTING UTILITY POLE FOR INCOMING TELECOM. SERVICE PROVIDED BY OTHERS.



1 ELECTRICAL SITE PLAN

1" = 30'-0"

Project:  
**VILLAGE OF ARDSLEY, NY**  
  
**NEW PUBLIC WORKS FACILITY**  
 220 HEATHERDELL ROAD,  
 VILLAGE OF ARDSLEY,  
 NEW YORK 10502

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**RHINEBECK ARCHITECTURE**

Seal:

Revisions:

Rev	Date	Description
1	04/22/22	ADDENDUM NO. 1

Issued For: BID



SCALE: AS NOTED

Date: APRIL 7, 2022

Drawn By: KML

Reviewed By: SZE

Approved By: BAB

W&S Project No: N2190088

Drawing Title:

**SITE PLAN**

Sheet Number:

**E002**

Revisions:

Rev	Date	Description
1	04/22/22	ADDENDUM NO. 1

Issued For: BID  


SCALE: AS NOTED  
 Date: APRIL 7, 2022  
 Drawn By: KML  
 Reviewed By: SZE  
 Approved By: BAB  
 W&S Project No: N2190088

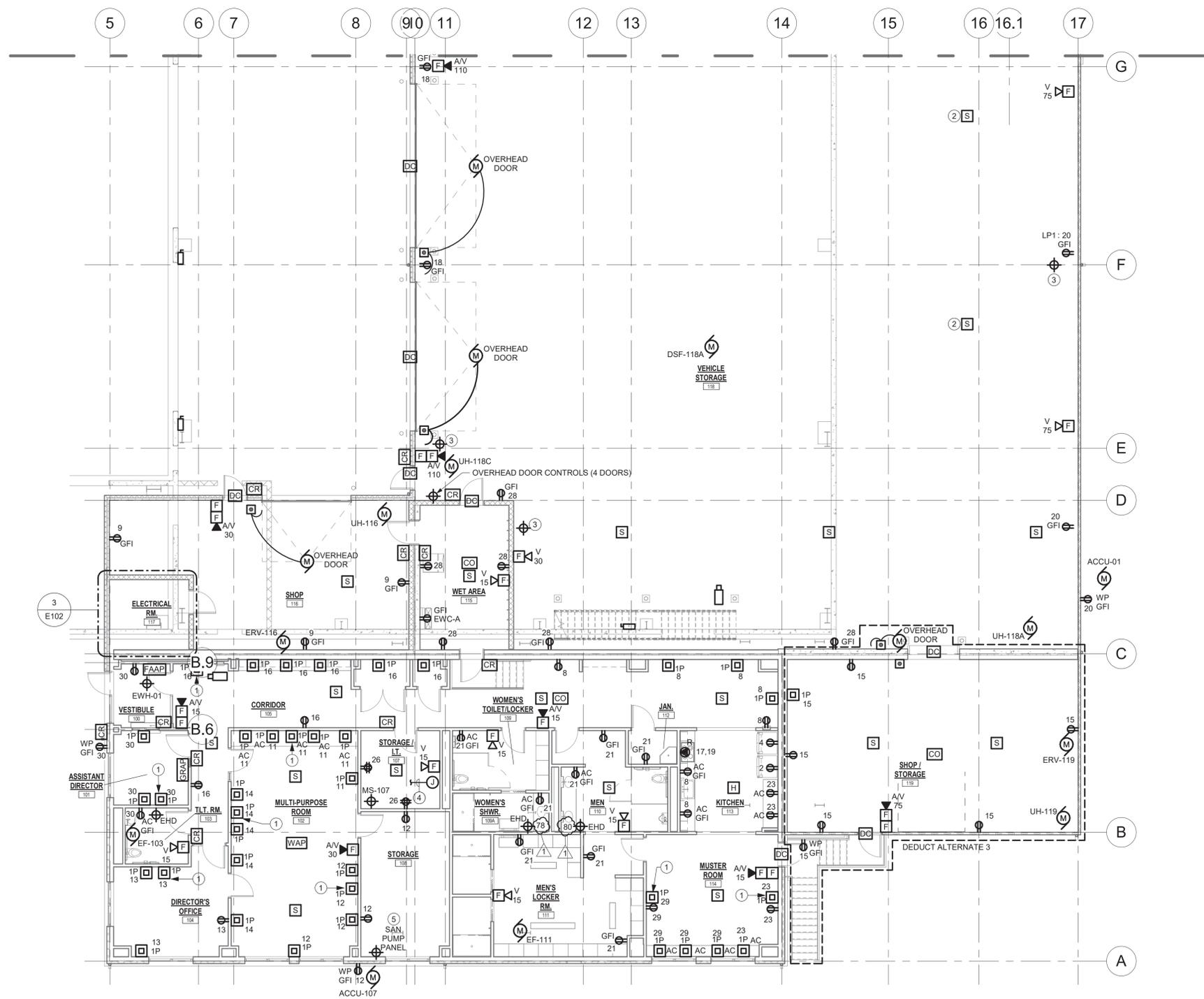
Drawing Title:  
**FIRST FLOOR AREA B AND BASEMENT POWER & SYSTEMS PLAN**  
 Sheet Number:  
**E102**

**GENERAL NOTES:**

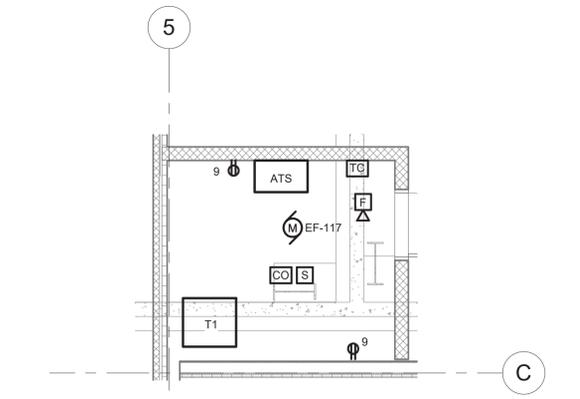
- UNLESS OTHERWISE NOTED, ALL BRANCH CIRCUIT WIRING SHALL BE (2)#12, (1)#12G, 3/4" C. TO PANEL LP1, UNLESS OTHERWISE NOTED.
- REFER TO ONE-LINE DIAGRAM, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

**E102 DRAWING NOTES:**

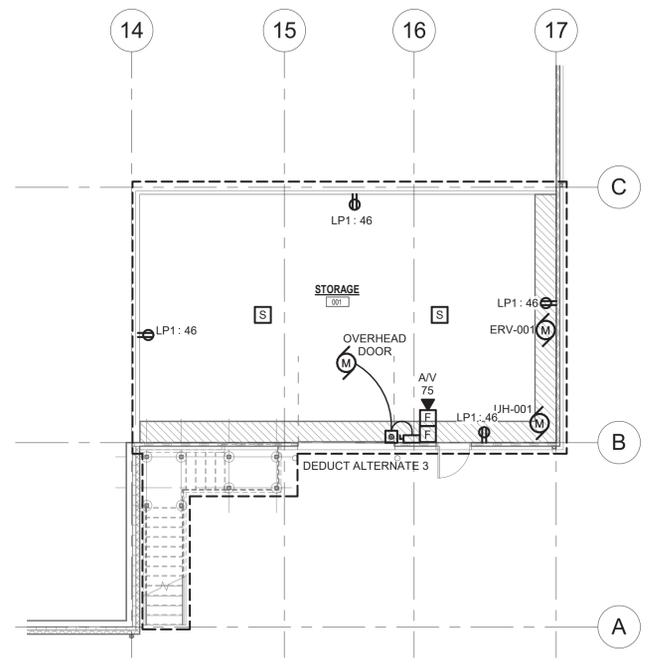
- RECEPTACLE AND DATA DROP ARE FOR WALL MOUNTED TV. CONTRACTOR TO COORDINATE MOUNTING HEIGHTS IN FIELD PRIOR TO ROUGH-IN.
- SMOKE DETECTORS ARE PART OF ADD ALTERNATE 1. SHOULD ADD ALTERNATE 1 BE ACCEPTED PROVIDE SMOKE DETECTORS MOUNTED TO UNDERSIDE OF MEZZANINE 2A.
- E3POINT SENSOR PROVIDED BY OTHERS. PROVIDE (2)#12, (1)#12G, 3/4" C. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE 2" CONDUIT FROM IT ROOM TO HANDHOLE ON TELE/DATA HANDHOLE ON SITE.
- PROVIDE 20A 3P CIRCUIT BREAKER IN PANEL HP1, CIRCUIT WITH (3)#12, (1)#12G, 3/4" C. FOR CIRCUITING OF SAN PUMP PANEL. PROVIDE (1)2" CONDUIT FROM SAN PUMP PANEL TO SAN PUMPS ON SITE FOR ROUTING OF CABLE PROVIDED BY OTHERS.



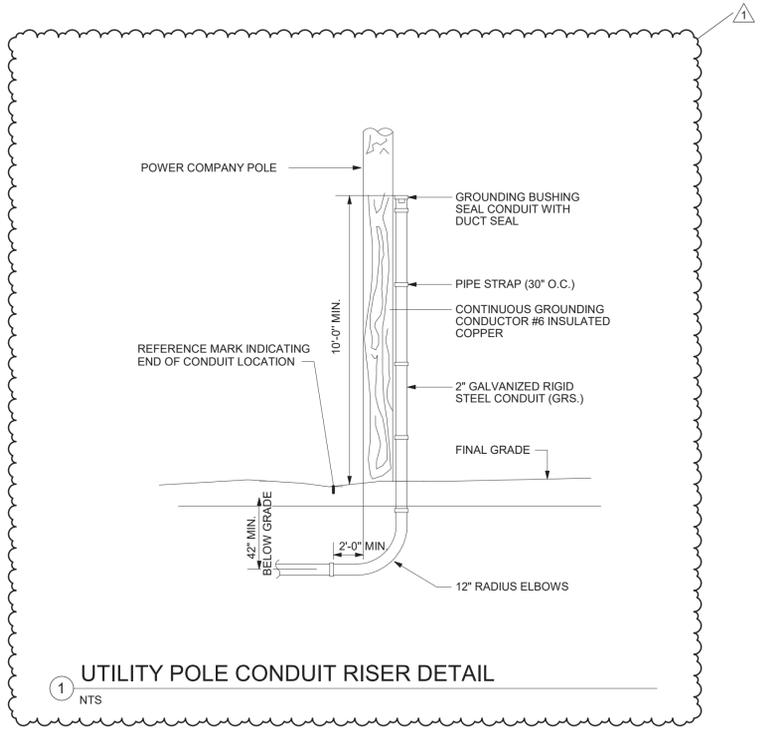
**1 FIRST FLOOR POWER & SYSTEMS - AREA B**  
 1/8" = 1'-0"



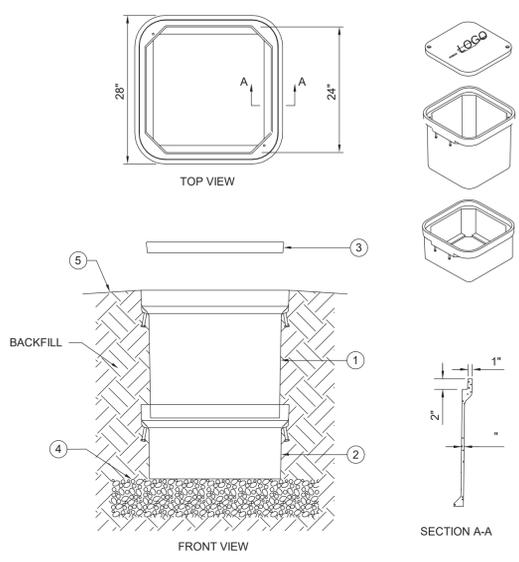
**ENLARGED ELECTRICAL ROOM**  
 1/4" = 1'-0"



**2 BASEMENT FLOOR POWER & SYSTEMS PLAN**  
 1/8" = 1'-0"

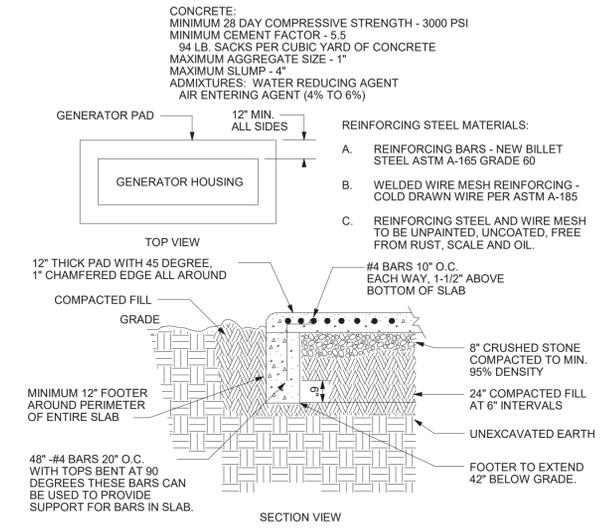


1 UTILITY POLE CONDUIT RISER DETAIL  
 NTS



- NOTES:
- 24" x 24" x 24" PRECAST POLYMER CONCRETE STACKABLE ENCLOSURE, OPEN BOTTOM.
  - 24" x 24" x 14" STACKABLE EXTENSION, OPEN BOTTOM.
  - BOLTED COVER.
  - 6" OF #2 CRUSHED STONE BELOW HANDHOLE. EXTEND MINIMUM OF 6" AROUND OUTSIDE EDGE.
  - SLOPE FINISHED GRADE AWAY FROM COVER.

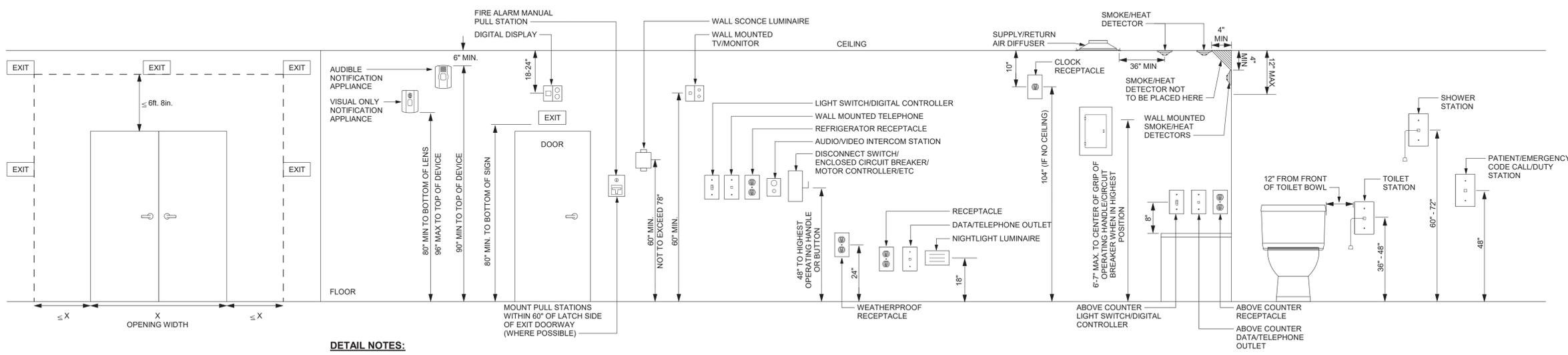
2 HANDHOLE DETAIL  
 NTS



- CONCRETE:  
 MINIMUM 28 DAY COMPRESSIVE STRENGTH - 3000 PSI  
 MINIMUM CEMENT FACTOR - 5.5  
 94 LB. SACKS PER CUBIC YARD OF CONCRETE  
 MAXIMUM AGGREGATE SIZE - 1"  
 MAXIMUM SLUMP - 4"  
 ADMIXTURES: WATER REDUCING AGENT  
 AIR ENTERING AGENT (4% TO 6%)
- REINFORCING STEEL MATERIALS:  
 A. REINFORCING BARS - NEW BILLET STEEL ASTM A-165 GRADE 60  
 B. WELDED WIRE MESH REINFORCING - COLD DRAWN WIRE PER ASTM A-185  
 C. REINFORCING STEEL AND WIRE MESH TO BE UNPAINTED, UNCOATED, FREE FROM RUST, SCALE AND OIL.

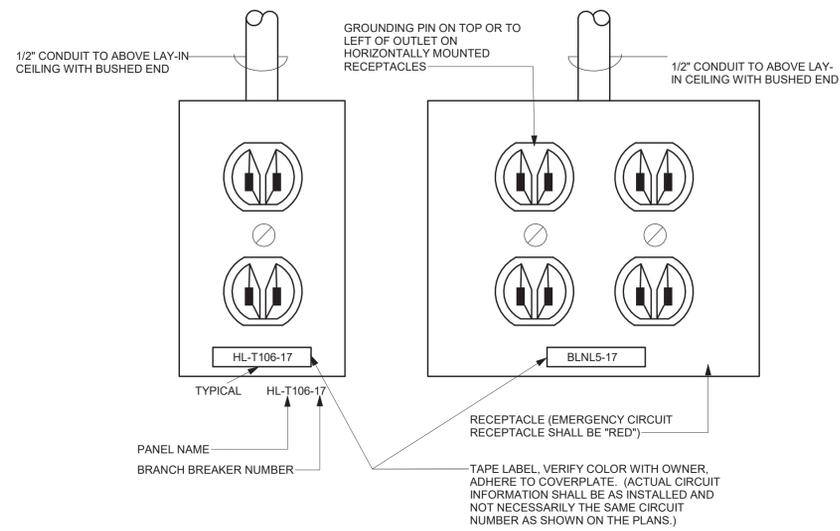
- DETAIL NOTES:  
 A. TOP OF NEW PADS SHALL BE 4" ABOVE EXISTING GRADE LEVEL.  
 B. TOP SURFACE SHALL BE TROWL FINISHED.  
 C. PROVIDE ANCHOR BOLTS AS PER GENERATOR MANUFACTURERS REQUIREMENTS.  
 D. READ THE SPECIFICATIONS AND REFER TO THE CONDUIT PLAN.

3 REINFORCED CONCRETE GENERATOR PAD DETAIL  
 NTS



- DETAIL NOTES:  
 A. MOUNTING LOCATIONS OF RECEPTACLES, SWITCHES, FIRE ALARM, NURSE CALL AND DATA DEVICES.  
 B. DEVICE HEIGHTS ARE TO BE AS INDICATED UNLESS OTHERWISE NOTED.

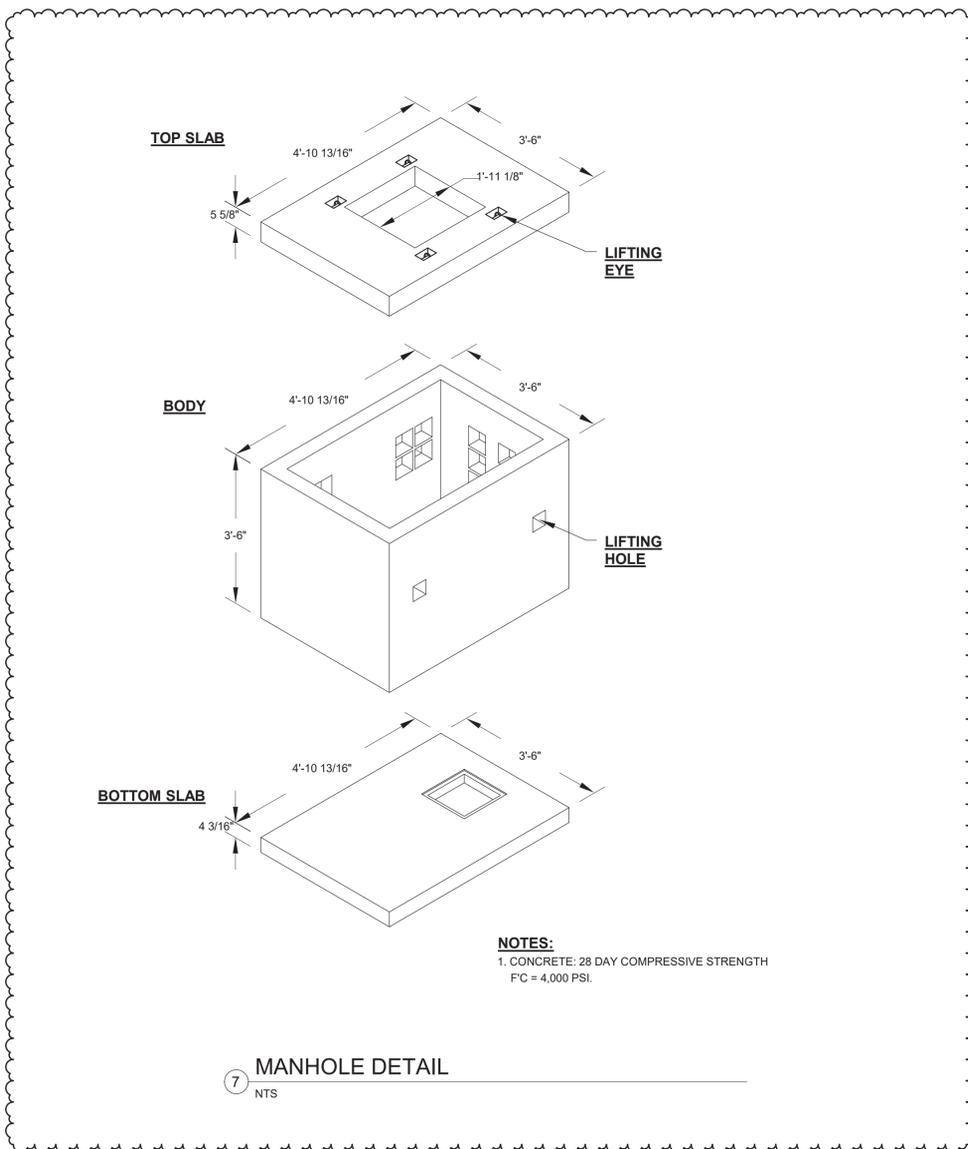
4 DEVICE MOUNTING LOCATION DETAIL  
 NTS



**GENERAL DETAIL NOTES:**

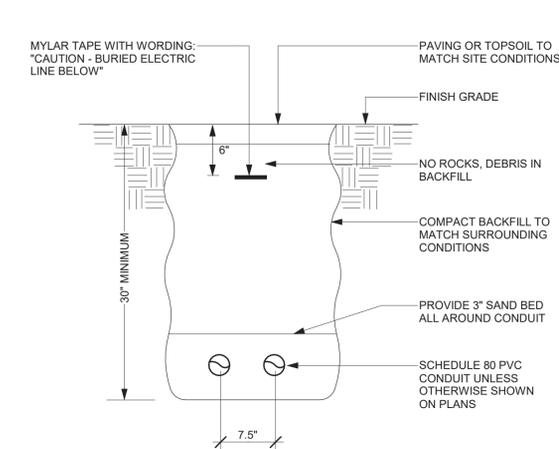
- A. PROVIDE GREEN GROUND WIRE IN ALL RECEPTACLE CIRCUITS. CONNECT TO GROUND BUS IN PANEL.
- B. DO NOT INSTALL RECEPTACLES, COMPUTER OR TELEPHONE OUTLETS BACK TO BACK. INSTALL IN ADJACENT STUD CAVITIES, TO REDUCE SOUND TRANSMISSION.

1 TYPICAL RECEPTACLE IDENTIFICATION REQUIREMENTS  
 NTS



**NOTES:**  
 1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH  
 FC = 4,000 PSI.

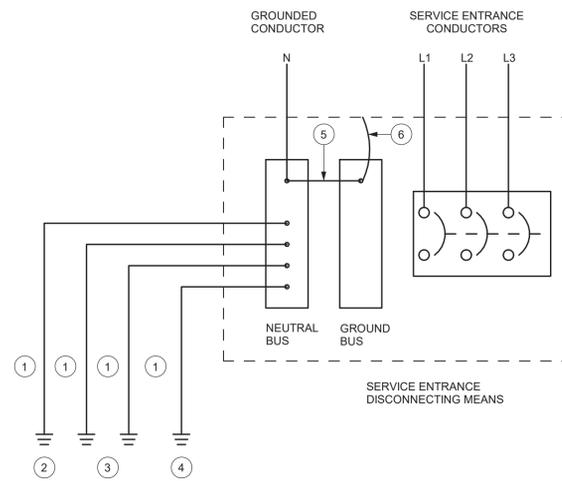
7 MANHOLE DETAIL  
 NTS



**DETAIL NOTES:**

- A. READ THE SPECIFICATIONS.
- B. REPAIR ALL SETTLEMENT.
- C. MINIMUM TOP SOIL - 6".
- D. WHERE ADDITIONAL CONDUITS ARE REQUIRED, INCREASE TRENCH WIDTH AND INSTALL CONDUITS WITH 3" MINIMUM SPACING.

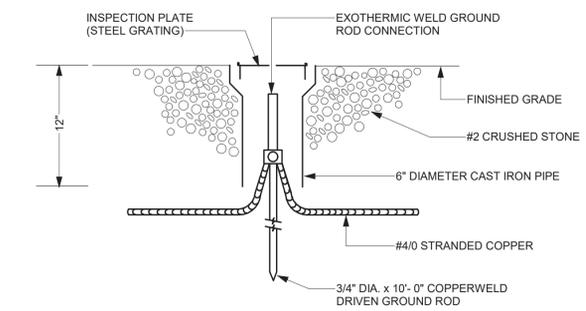
2 TYPICAL DIRECT BURIED CONDUIT DETAIL  
 NTS



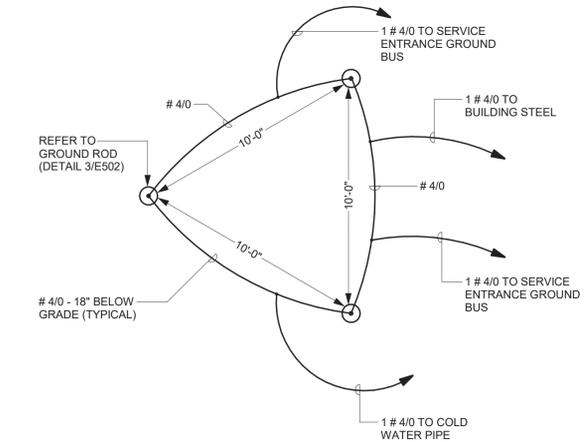
**DETAIL NOTES:**

- 1 GROUNDING ELECTRODE CONDUCTOR. PROVIDE INSULATED COPPER CONDUCTOR PER SPECIFICATIONS. IF NO SIZE IS SPECIFIED, PROVIDE INSULATED COPPER CONDUCTOR SIZED PER N.E.C., TABLE 250-66. INSTALL IN RIGID, SCHEDULE 40, PVC RACEWAY.
- 2 METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR 10 FEET OR MORE. SHALL BE SUPPLEMENTED BY ITEMS 3 & 4.
- 3 BUILDING STRUCTURAL STEEL.
- 4 MADE GROUNDING ELECTRODE. REFER TO MADE GROUNDING ELECTRODE-GROUND GRID\* DETAIL & SPECIFICATIONS.
- 5 MAIN BONDING JUMPER. PROVIDE INSULATED COPPER CONDUCTOR PER N.E.C. ARTICLE 250-28.
- 6 BOND GROUND BUS TO EQUIPMENT ENCLOSURE WITH BARE COPPER BONDING JUMPER PER N.E.C. ARTICLE 250-28.

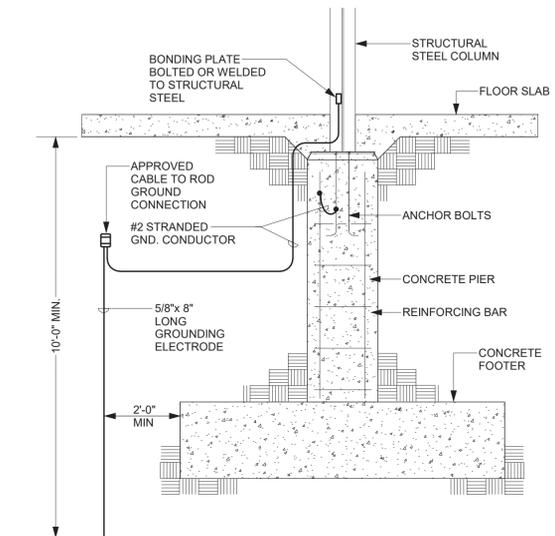
5 SERVICE ENTRANCE GROUNDING  
 NTS



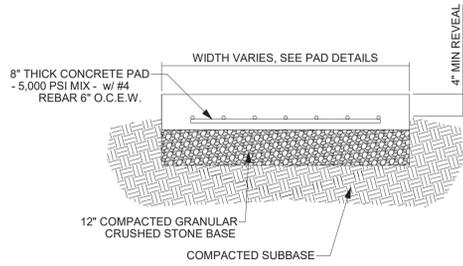
3 TYPICAL GROUND ROD DETAIL  
 1/8" = 1'-0"



4 GROUNDING SYSTEM DETAIL  
 NTS

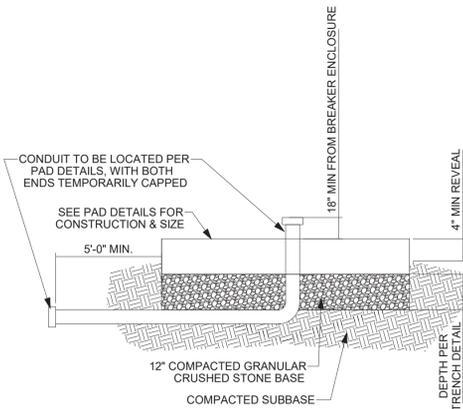


6 STRUCTURAL STEEL GROUNDING DETAIL  
 NTS



**CONCRETE PAD DETAIL**

**NOTE:**  
1. CONCRETE PAD TO EXTEND A MINIMUM OF 6" BEYOND THE PERIMETER OF ENCLOSURE.

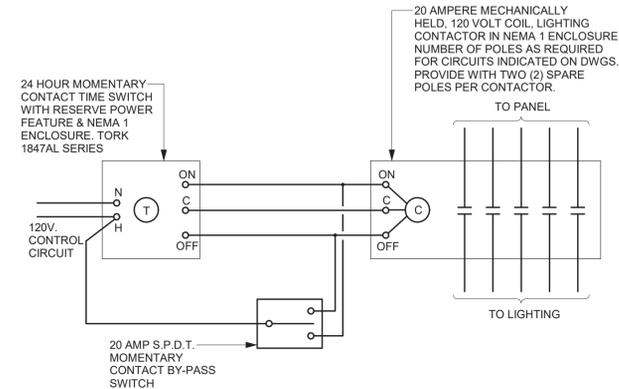


**CONDUIT STUB DETAIL**

**NOTE:**  
1. CONCRETE PAD TO EXTEND A MINIMUM OF 6" BEYOND THE PERIMETER OF ENCLOSURE.

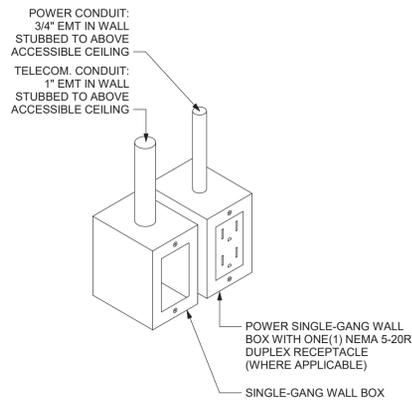
**GENERAL EQUIPMENT PAD DETAIL**

NTS



**3 TYPICAL LIGHTING CONTROL SCHEMATIC**

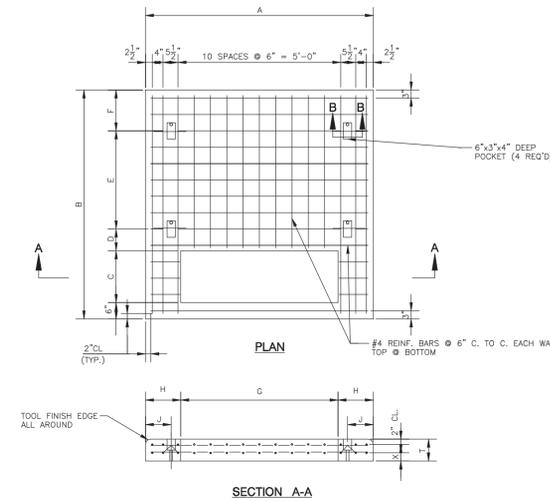
NTS



**5 TYPICAL COMBINATION POWER & TELE/DATA OUTLET DETAIL**

NTS

SYMBOL: 1P

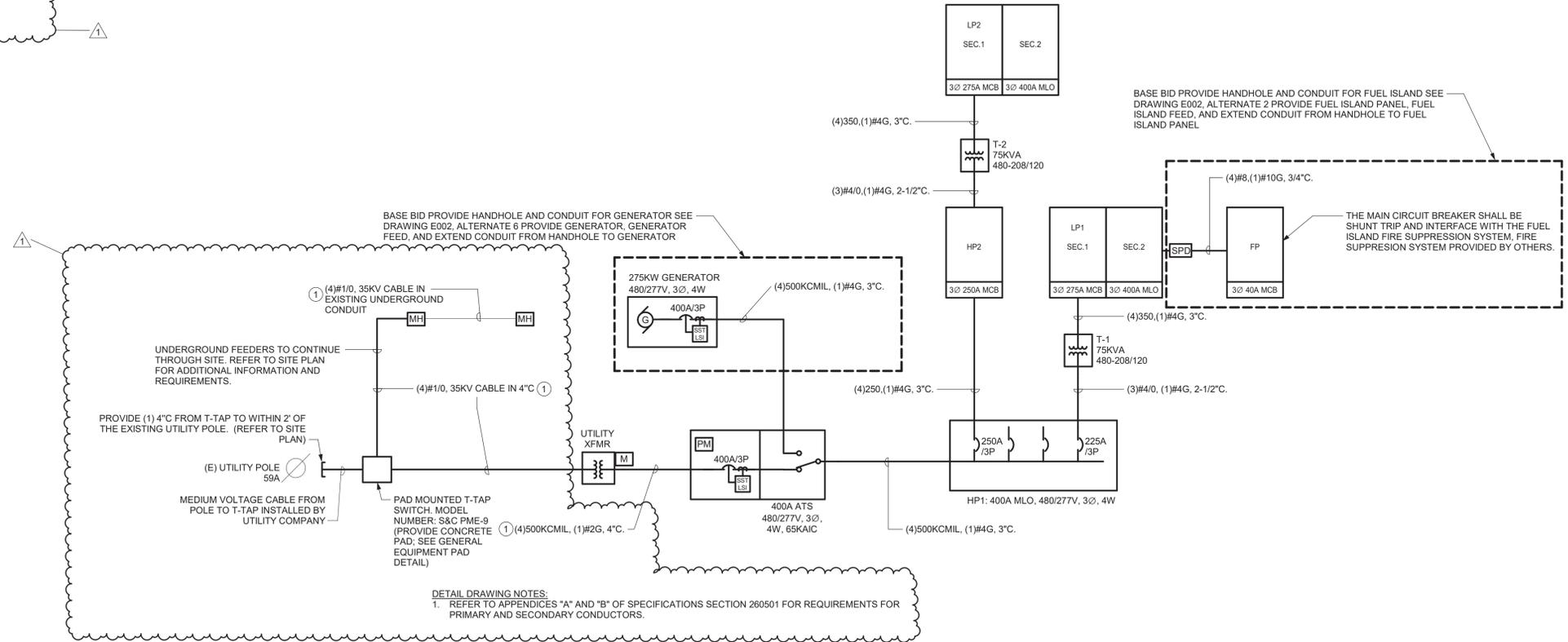


THREE PHASE TRANSFORMER	CONCRETE PAD TYPE OF INSTALLATION	DIMENSIONS (INCHES)												APPROX VOLUME (CU. YDS)	APPROX PRECAST PAD WEIGHT (LBS)
		A	B	C	D	E	F	G	H	J	T	X			
75-500	FIELD POURED	84	72	19	8	30	9	44	20	12	7 1/2	2	0.84	212	3395
	PRECAST	84	72	19	8	30	9	44	20	12	7 1/2	2	0.84	212	3395

- DETAIL GENERAL NOTES:**
- A. REINFORCING BARS SHALL BE WIRE TIED AT ALL CONTACT POINTS WITH PLASTIC COATED WIRE TIES.
  - B. ALL REINFORCING BARS SUPPORTED FROM FRAMEWORK SHALL REST ON COATED WIRE BAR SUPPORTS.
  - C. EPOXY COATING, DAMAGED AS A RESULT OF HANDLING OR CUTTING OF REINFORCING BARS, SHALL BE REPAIRED WITH PATCHING MATERIAL CONFORMING TO ASTM SPEC. DES A-775.
  - D. A 2" MINIMUM OF CONCRETE SHALL BE MAINTAINED OVER ALL REINFORCING BARS AND SHAPES, UNLESS OTHERWISE NOTED.
  - E. WHERE HORIZONTAL BARS ARE CUT FOR REPLACEMENT PURPOSES, SPLICE BARS OF THE SAME SIZE AND AT LEAST 2'-6" LONG SHALL BE INSTALLED ACROSS THE CUT POSITION.
  - F. PAD SHALL BE INSTALLED ON A MINIMUM OF 6" CRUSHED STONE.
  - G. TOP SURFACE OF PAD SHALL HAVE A STEEL TROWEL FINISH.
  - H. TOP OF PAD SHALL BE 6" ABOVE GRADE.
  - I. OMIT LIFTING EYES, POCKETS AND DRAIN HOLES FROM FIELD—POURED PADS.
  - J. FOR PRECAST PADS, FILL LIFTING HOLES AND OPEN AREAS AROUND CONDUITS WITH MORTAR AFTER PAD IS INSTALLED.
  - K. CONCRETE SHALL CONFORM TO CON EDISON SPEC. EO-1 008, CLASS II.
  - L. CEMENT MORTAR SHALL CONFORM TO CON EDISON SPEC. EO-1 00.167 (STK § 000-0802).
  - M. ALL REINFORCING BARS SHALL BE BILLET STEEL, DEFORMED, AND SHALL CONFORM TO ASTM SPEC. A-615, GRADE 60. ALL REINFORCING BARS SHALL BE EPOXY COATED AND SHALL CONFORM TO ASTM N. SPEC. A-775.
  - O. STRUCTURAL STEEL SHALL CONFORM TO ASTM SPEC. A-36.
  - P. WELD STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH EO-11320.

**2 UTILITY TRANSFORMER PAD DETAIL**

NTS



**DETAIL DRAWING NOTES:**  
1. REFER TO APPENDICES "A" AND "B" OF SPECIFICATIONS SECTION 260501 FOR REQUIREMENTS FOR PRIMARY AND SECONDARY CONDUCTORS.

**4 ELECTRICAL ONE-LINE DIAGRAM**

NTS

Seal:

Revisions:

Rev	Date	Description
1	04/22/22	ADDENDUM NO. 1

Issued For: BID  
PROJECT TRUE

SCALE: AS NOTED  
Date: APRIL 7, 2022  
Drawn By: KML  
Reviewed By: SZE  
Approved By: BAB  
W&S Project No: N2190088

Drawing Title:  
**ELECTRICAL DETAILS**  
Sheet Number:  
**E503**

PANELBOARD DIRECTORY													
M/E PROJECT: NEW PUBLIC WORKS FACILITY PROJECT NO.: 203050 FACILITY: LOCATION:				PANEL NAME: <b>HP1</b>				TYPE: BRANCH MOUNTING: Wall Mounted OCB TYPE: MLO BUS RATING: 400 A MCB RATING:					
				VOLTAGE: 480/277 Wye L-L PHASE: 3									
				AIC: 65 k WIRE: 4									
				SOURCE: T1									
CKT NO.	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT NO.
1				3394.8	9422.4								2
3	AHU-01	20 A	3			3394.8	9422.4			3	20 A	ACCU-01	4
5						3394.8	9422.4						6
7				2909.8	23051.7								8
9	OVERHEAD DOORS	20 A	3			2909.8	21603.9			3	225 A	T1 (FEEDING LP1)	10
11						2909.8	24744.7						12
13				61719.1	191.1					1	15 A	DSF-118A,B,C	14
15	HP2	250 A	3			62376.7	3214			1	20 A	VEHICLE STORAGE LIGHTS	16
17								53000.2	4968	1	30 A	VEHICLE STORAGE LIGHTS	18
19	EXTERIOR LIGHTING	20 A	1	559.9	0					1	20 A	EXIT SIGNS	20
21	MEZZANINE LIGHTS	20 A	1			2185	1108.5						22
23	ADMIN LIGHTS	20 A	1					2957.4	1108.5	3	20 A	SAN PUMP PANEL	24
25	SPACE	--	--	0	1108.5								26
27	SPACE	--	--			0	0						28
29	SPACE	--	--			0	0						30
31	SPACE	--	--	0	0								32
33	SPACE	--	--			0	0						34
35	SPACE	--	--			0	0						36
37	SPACE	--	--	0	0								38
39	SPACE	--	--			0	0						40
41	SPACE	--	--			0	0						42

PANELBOARD DIRECTORY													
M/E PROJECT: NEW PUBLIC WORKS FACILITY PROJECT NO.: 203050 FACILITY: LOCATION:				PANEL NAME: <b>LP1</b>				TYPE: BRANCH MOUNTING: SURFACE OCB TYPE: MCB BUS RATING: 400 A MCB RATING:					
				VOLTAGE: 120/208 Wye L-L PHASE: 3									
				AIC: 10 k WIRE: 4									
				SOURCE: T1									
CKT NO.	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT NO.
1	EF-117	15 A	1	16.8	180					1	20 A	REFRIGERATOR	2
3	EF-123	15 A	1			16.8	180			1	20 A	REFRIGERATOR	4
5	FACP	20 A	1					50	540	1	20 A	REC MEZZ 2	6
7	REC WATER RM. VEHICLE STOR	20 A	1	540	1295					1	20 A	REC CORR & KIT, UC LIGHTS	8
9	REC ELEC RM & SHOP 116	20 A	1			900	1176			1	20 A	FRONT GATE	10
11	REC MULTI PURPOSE RM	20 A	1					1080	1260	1	20 A	REC MULTI PURPOSE & STOR RM	12
13	REC DIRECTOR'S OFFICE	20 A	1	720	900					1	20 A	REC MULTI PURPOSE RM	14
15	REC EXT & SHOP/STOR	20 A	1			1260	1440			1	20 A	REC CORR	16
17								4160	720	1	20 A	REC VEHICLE STOR	18
19	KITCHEN RANGE	50 A	2	4160	1080					1	20 A	REC VEHICLE STOR	20
21	REC JAN, MEN, WOMEN'S	20 A	1			1440	509.6			2	15 A	ERV-120	22
23	REC MUSTER & KITCHEN	20 A	1					900	509.6	2	15 A	ERV-120	24
25				582.4	720					1	20 A	REC IT	26
27	RP-1	15 A	2			582.4	1080			1	20 A	REC WET AREA & VEHICLE STOR	28
29	REC MUSTER	20 A	1					900	1080	1	20 A	REC VEST, AST DIR, TLT RM	30
31				2113.6	2113.6					3	25 A	EF-118B	32
33	EF-118A	25 A	3			2113.6	2113.6						34
35								2113.6	2113.6				36
37	SPACE	--	--	0	0					1	20 A	SPARE	38
39	SPACE	--	--			0	0			1	20 A	SPARE	40
41	SPACE	--	--					0	0	1	20 A	SPARE	42

PANELBOARD DIRECTORY													
M/E PROJECT: NEW PUBLIC WORKS FACILITY PROJECT NO.: 203050 FACILITY: LOCATION:				PANEL NAME: <b>LP1</b>				TYPE: BRANCH MOUNTING: SURFACE OCB TYPE: MLO BUS RATING: 400 A MCB RATING:					
				VOLTAGE: 120/208 Wye L-L PHASE: 3									
				AIC: 10 k WIRE: 4									
				SOURCE: LP1									
CKT NO.	CIRCUIT DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	CIRCUIT DESCRIPTION	CKT NO.
43	INVERTER	20 A	1	0	16.8					1	15 A	EF-103	44
45	EWCA	20 A	1			180	720			1	20 A	REC RM 001 STORAGE	46
47	B-01	15 A	1					216	468	1	20 A	ERV-001, ERV-116, ERV-119	48
49	UH-001	15 A	2	124.8	600					1	15 A	WH-1	50
51						124.8	800.8			2	20 A	ERV-118	52
53								2900.4	800.8	2	20 A	ERV-118	54
55	FP	60 A	3	3336	660					1	20 A	DRYER	56
57						2640	2038.4			2	30 A	ACCU-107	58
59	UH-116	15 A	2	124.8	998.4			124.8	2038.4	2	15 A	EW-01	60
61													62
63	UH-119	15 A	2			124.8	998.4			2	15 A	EW-01	64
65								124.8	124.8	2	15 A	UH-118A	66
67	UH-118B	15 A	2	124.8	124.8					2	15 A	UH-118A	68
69						124.8	260			2	15 A	UH-118E	70
71	UH-118F	15 A	2					260	260	2	15 A	UH-118E	72
73				260	260					2	15 A	UH-118C	74
75	EF-111	15 A	2			260	260			1	20 A	EHD	76
77								260	1740	1	20 A	EHD	78
79	UH-118D	15 A	2	260	1740					1	20 A	EHD	80
81													82
83	SPACE	--	--					0	0	--	--	SPACE	84

Project:  
VILLAGE OF ARDSLEY, NY



NEW PUBLIC WORKS FACILITY  
220 HEATHERDELL ROAD,  
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**RHINEBECK ARCHITECTURE**

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