Stantec

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

ISSUE FOR FILING
09.12.2024

Stantec Project Number: 192311093

DRAWING LIST

NO.	DRAWING NAME
GENERAL	
G-000	COVERSHEET
G-002	LIFE SAFETY PLAN
CIVIL	
C-100	EXISTING CONDITIONS
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C-101B	STAGING PLAN
C-102	SITE PLANS
C-103	ELECTRICAL SITE PLAN
C-104	SOIL REMOVAL PLAN
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S-002	NOTES AND SPECIAL INSPECTIONS
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S-202	ROOF FRAMING PLAN
S-301	TYPICAL CONCRETE DETAILS
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S-303	TYPICAL MASONRY DETAILS
S-304	TYPICAL MASONRY DETAILS
S-310	FOUNDATION SECTIONS & DETAILS
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A-504	TYPICAL MILLWORK DETAILS
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M-101	MECHANICAL FIRST FLOOR PLAN
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M-801	MECHANICAL CONTROLS SCHEMATICS
M-802	MECHANICAL CONTROLS SCHEMATICS
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E-102	SECOND FLOOR POWER PLAN
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PV-520	TYPICAL ELECTRICAL EQUIPMENT LABELS
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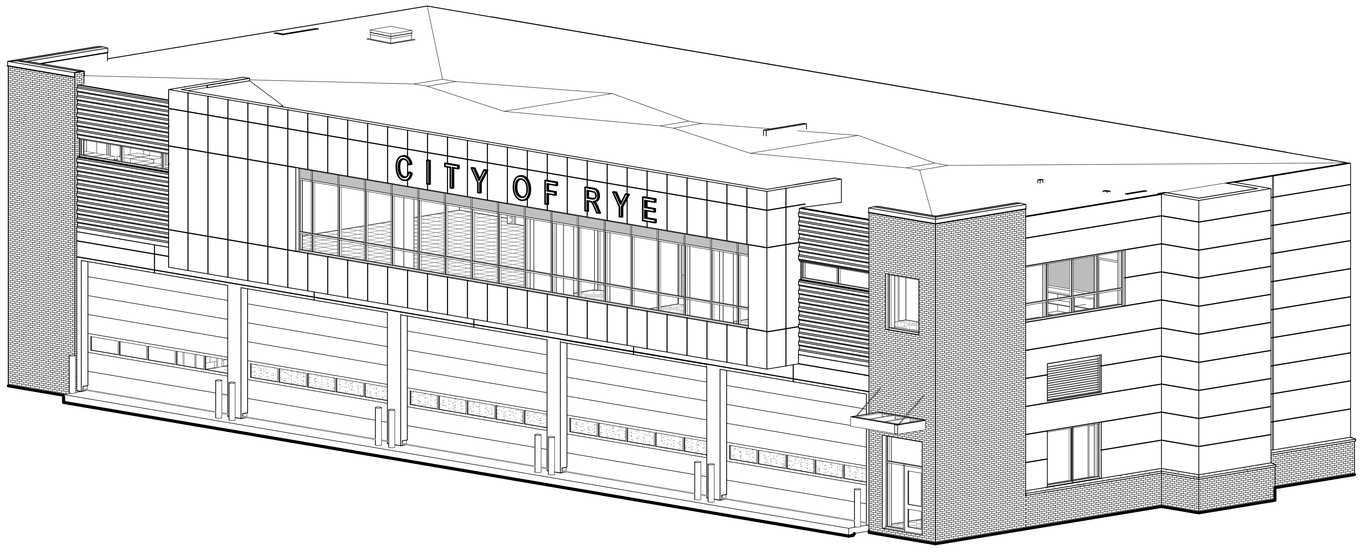
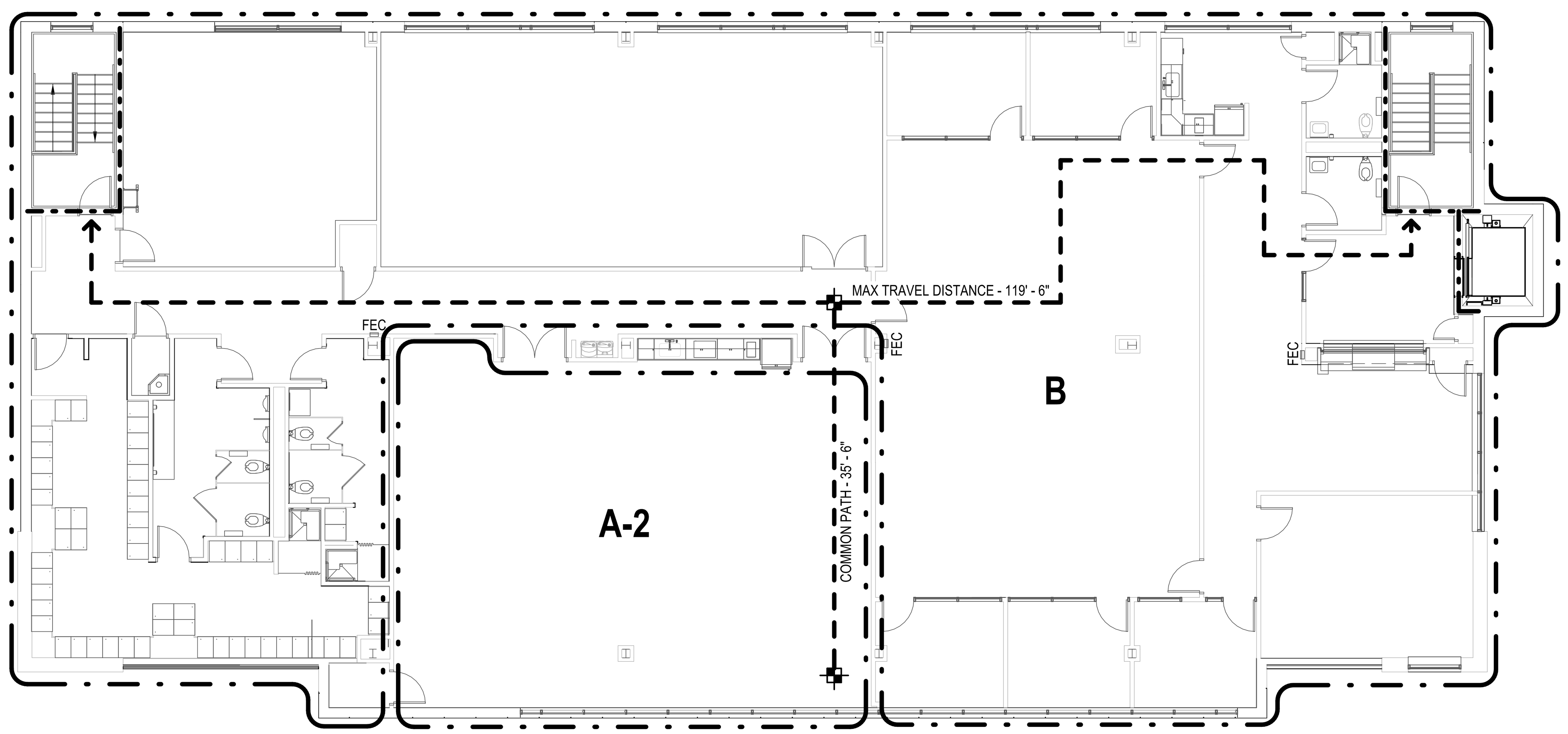
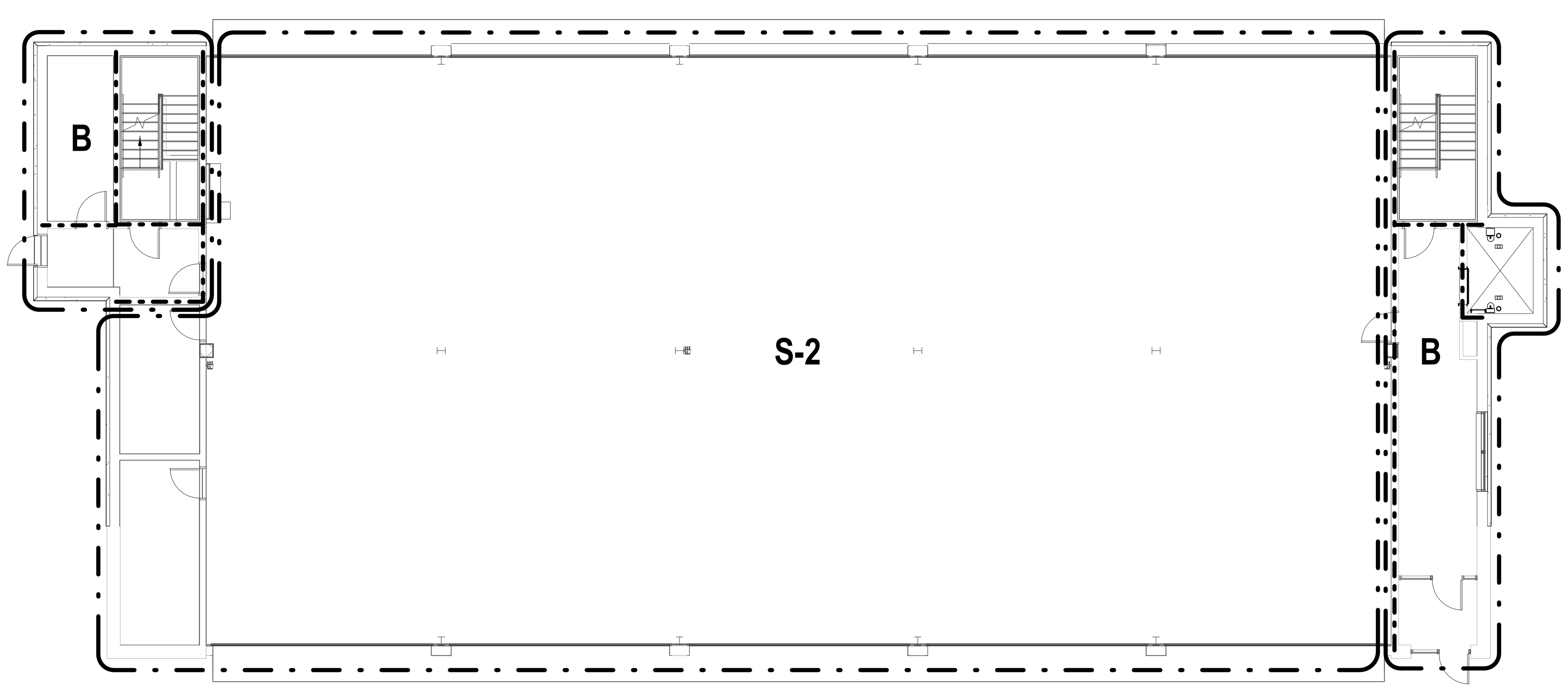
PV-600	WIRING DIAGRAM
PV-700	PV CONDUIT & CABLE SCHEDULE
PV-800	PV ELECTRICAL DESIGN CALCULATIONS





SECOND FLOOR LIFE SAFETY PLAN

2 G-002 3/32" = 1'-0"



FIRST FLOOR LIFE SAFETY PLAN

1 G-002 3/32" = 1'-0"

CODE SUMMARY

USE AND OCCUPANCY:

SECTION 302.1 OCCUPANCY CLASSIFICATIONS

S-2	LOW HAZARD STORAGE - GARAGE
B	BUSINESS - OFFICE
A-2	ASSEMBLY

SECTION 508 MIXED USE AND OCCUPANCY
508.3 NON-SEPARATED OCCUPANCIES

CONSTRUCTION TYPE:

SECTION 602.5 CONSTRUCTION:

TYPE II B

THE BUILDING SHALL BE FULLY SPRINKLERED WITH NFPA13 SYSTEM.

PROJECT ACTION:

NEW CONSTRUCTION

BUILDING HEIGHT AND AREA LIMITATIONS:

TABLE 504.3 ALLOWABLE HEIGHT: TYPE II B CONSTRUCTION

A, B, S:	75'-0"
ACTUAL:	33'-0"

TABLE 504.4 ALLOWABLE NUMBER OF STORIES: TYPE II B CONSTRUCTION:

A-2:	3 (GOVERNS)
B:	4
S-2:	4
ACTUAL:	2

TABLE 506.2 ALLOWABLE AREA FACTOR: TYPE II B CONSTRUCTION:

A-2:		28,500 SQ. FT. (GOVERNS)
B:		69,000 SQ. FT.
S-2:		78,000 SQ. FT.
ACTUAL:	1ST FLOOR:	8,345 SQ. FT.
	2ND FLOOR:	8,595 SQ. FT.
	TOTAL:	16,940 SQ. FT.

APPLICABLE BUILDING CODES

2020 BUILDING CODE OF NEW YORK STATE

2020 PLUMBING CODE OF NEW YORK STATE

2020 MECHANICAL CODE OF NEW YORK STATE

2020 FUEL GAS CODE OF NEW YORK STATE

2020 FIRE CODE OF NEW YORK STATE

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

ACCESSIBILITY SHALL COMPLY WITH BC NYS 2020
REFERENCED STANDARD: ANSI/ICC A117.1-2009

ENERGY CONSERVATION CONSTRUCTION CODE

THIS BUILDING COMPLIES WITH THE 2020 ENERGY CONSERVATION CODE OF NEW YORK, REQUIRING THE ENTIRE BUILDING OR STRUCTURE TO COMPLY WITH THE ENERGY REQUIREMENTS OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

LIFE SAFETY KEYS

E ↑	DENOTES EXIT
←----------	PATH OF TRAVEL
⊞	START POINT
◎	POINT OF DECISION
FEC ▭	FIRE EXTINGUISHER CABINET
(FE)	FIRE EXTINGUISHER
1 — · — · —	1HR FIRE RATED WALL

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Notes

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
ISSUE FOR BID	JK	THC	2024.09.12

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
CVR	THC	AJP	2020.12.11

Permit/Seal

REGISTERED ARCHITECT
THOMAS HENRY CASTELLI
020250
STATE OF NEW YORK

Client/Project Logo

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
LIFE SAFETY PLAN

Project No.
192311093

Scale
As indicated

Date
2020.12.11

Drawing No.
G-002

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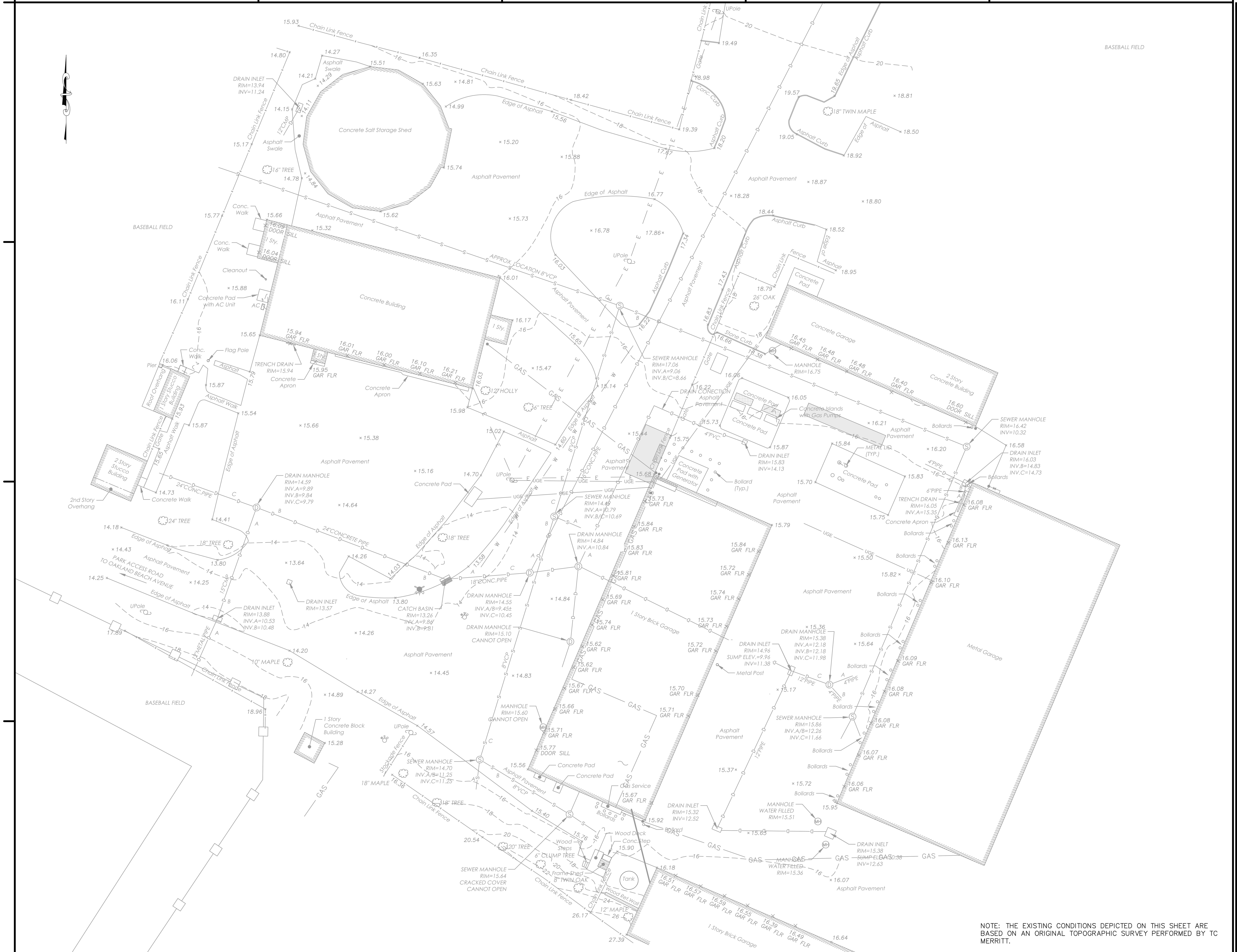
ORIGINAL SHEET - ANSI D



NOTE: THE EXISTING CONDITIONS DEPICTED ON THIS SHEET ARE BASED ON AN ORIGINAL TOPOGRAPHIC SURVEY PERFORMED BY TC MERRITT.

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
ISSUED FOR BID	ZM	PK	2024.08.30
100% CONSTRUCTION DOCUMENTS	ZM	PK	2024.04.03

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	CEH	PK	AD	

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Client/Project Logo

1660 1904 CITY OF RYE NY 1942

Client/Project

CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title

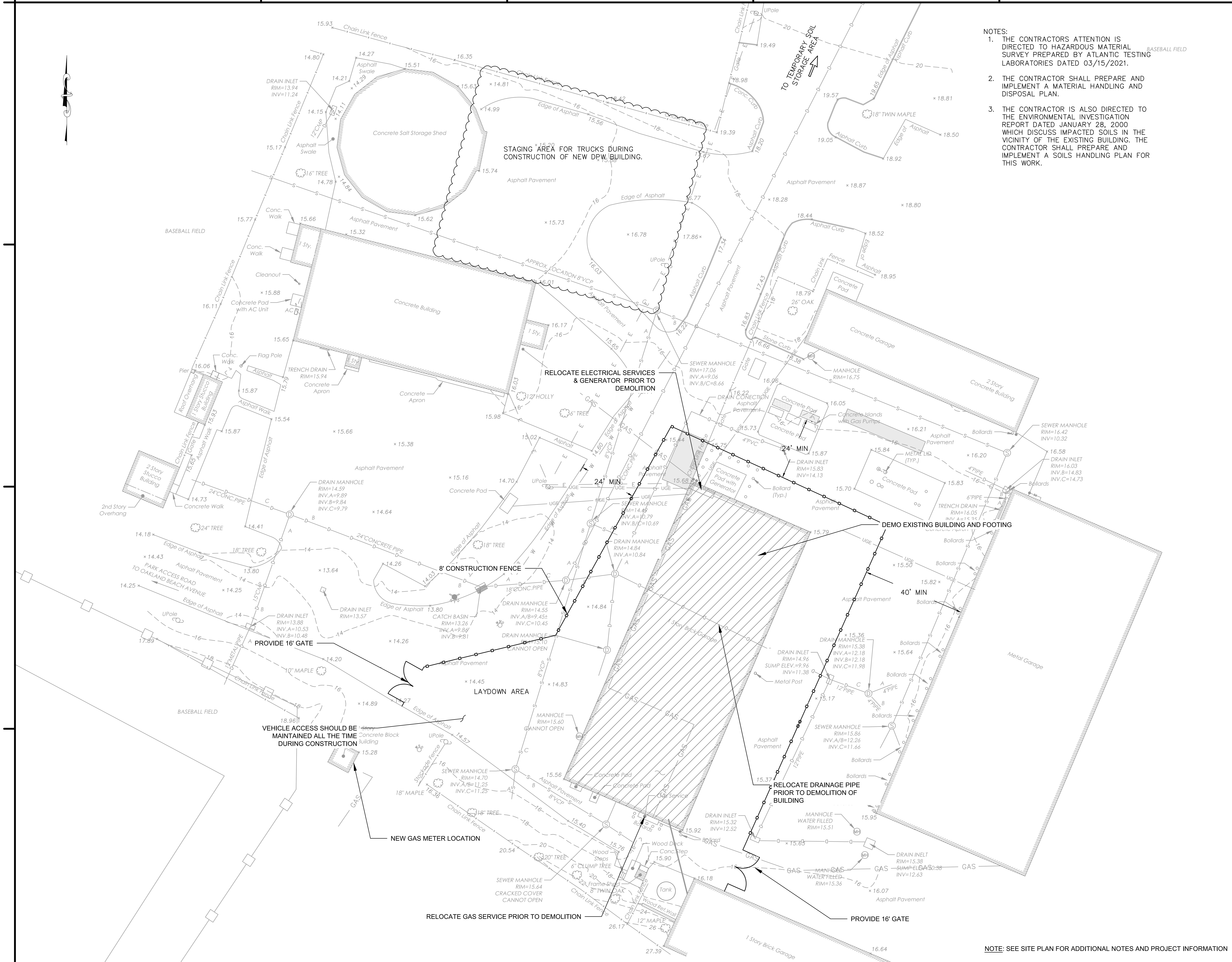
Existing Conditions

Project No. 192311093

Scale 1" = 20'

Date 2024.05.24

Drawing No. **C-100**



NOTES:

1. THE CONTRACTORS ATTENTION IS DIRECTED TO HAZARDOUS MATERIAL SURVEY PREPARED BY ATLANTIC TESTING LABORATORIES DATED 03/15/2021.
2. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A MATERIAL HANDLING AND DISPOSAL PLAN.
3. THE CONTRACTOR IS ALSO DIRECTED TO THE ENVIRONMENTAL INVESTIGATION REPORT DATED JANUARY 28, 2000 WHICH DISCUSS IMPACTED SOILS IN THE VICINITY OF THE EXISTING BUILDING. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A SOILS HANDLING PLAN FOR THIS WORK.

NOTE: SEE SITE PLAN FOR ADDITIONAL NOTES AND PROJECT INFORMATION

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100% CONSTRUCTION DOCUMENTS	ZM	PK	2024.04.03
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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
Staging Plans

Project No. 192311093

Scale 1" = 20'

Date 2024.05.24

Drawing No. **C-101A**

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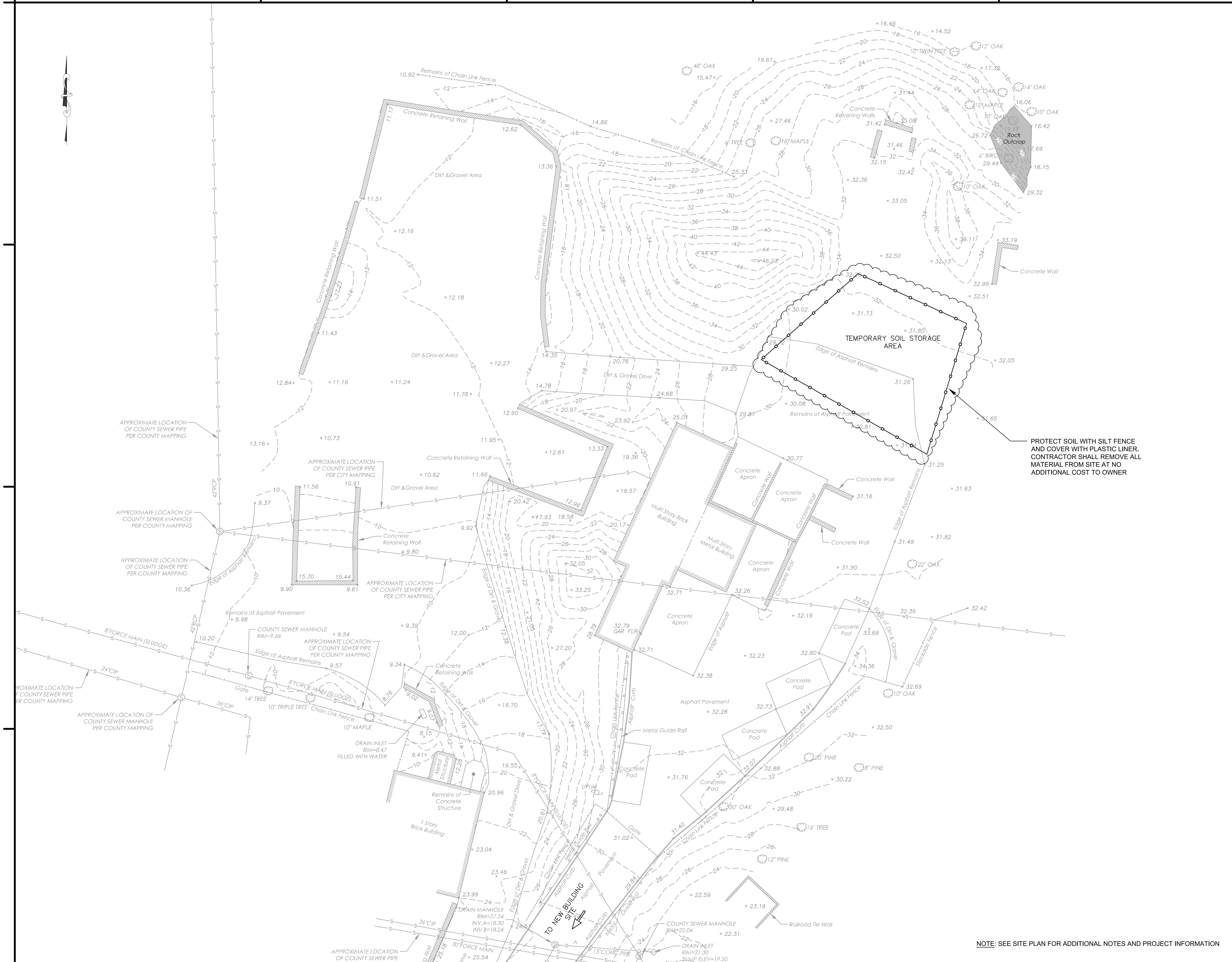
ORIGINAL SHEET - ANSI D



NOTE: SEE SITE PLAN FOR ADDITIONAL NOTES AND PROJECT INFORMATION

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Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
Staging Plans

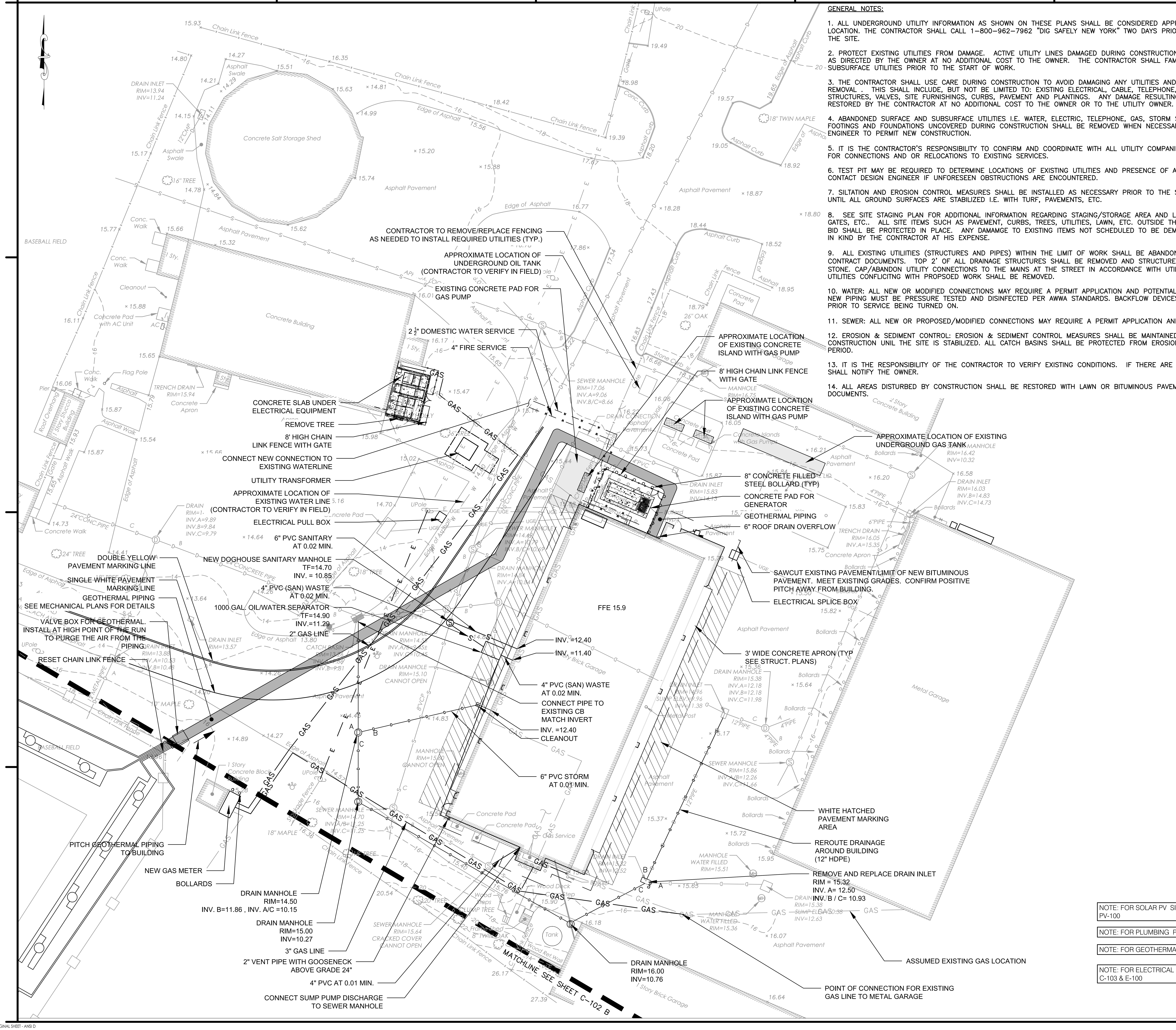
Project No.
192311093

Scale
1" = 20'

Date
2024.05.24

Drawing No.
C-101B

ORIGINAL SHEET - ANSI D



GENERAL NOTES:

1. ALL UNDERGROUND UTILITY INFORMATION AS SHOWN ON THESE PLANS SHALL BE CONSIDERED APPROXIMATE BOTH AS TO SIZE AND LOCATION. THE CONTRACTOR SHALL CALL 1-800-962-7962 "DIG SAFELY NEW YORK" TWO DAYS PRIOR TO BEGINNING ANY EXCAVATION AT THE SITE.

2. PROTECT EXISTING UTILITIES FROM DAMAGE. ACTIVE UTILITY LINES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE OWNER AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL SUBSURFACE UTILITIES PRIOR TO THE START OF WORK.

3. THE CONTRACTOR SHALL USE CARE DURING CONSTRUCTION TO AVOID DAMAGING ANY UTILITIES AND STRUCTURES NOT SCHEDULED FOR REMOVAL . THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: EXISTING ELECTRICAL, CABLE, TELEPHONE, SEWER AND WATER LINES, DRAINAGE STRUCTURES, VALVES, SITE FURNISHINGS, CURBS, PAVEMENT AND PLANTINGS. ANY DAMAGE RESULTING FROM THIS CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER OR TO THE UTILITY OWNER.

4. ABANDONED SURFACE AND SUBSURFACE UTILITIES I.E. WATER, ELECTRIC, TELEPHONE, GAS, STORM SEWER, SANITARY LINES, CONCRETE FOOTINGS AND FOUNDATIONS UNCOVERED DURING CONSTRUCTION SHALL BE REMOVED WHEN NECESSARY AND AS APPROVED BY THE ENGINEER TO PERMIT NEW CONSTRUCTION.

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND COORDINATE WITH ALL UTILITY COMPANIES (WATER, SEWER, ELECTRICAL, ETC...) FOR CONNECTIONS AND OR RELOCATIONS TO EXISTING SERVICES.

6. TEST PIT MAY BE REQUIRED TO DETERMINE LOCATIONS OF EXISTING UTILITIES AND PRESENCE OF ANY UTILITIES NOT SHOWN OF SURVEY. CONTACT DESIGN ENGINEER IF UNFORESEEN OBSTRUCTIONS ARE ENCOUNTERED.

7. SILTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS NECESSARY PRIOR TO THE START OF GRADING AND MAINTAINED UNTIL ALL GROUND SURFACES ARE STABILIZED I.E. WITH TURF, PAVEMENTS, ETC.

8. SEE SITE STAGING PLAN FOR ADDITIONAL INFORMATION REGARDING STAGING/STORAGE AREA AND LIMITS OF CONSTRUCTION FENCING, GATES, ETC.. ALL SITE ITEMS SUCH AS PAVEMENT, CURBS, TREES, UTILITIES, LAWN, ETC. OUTSIDE THE CONSTRUCTION LIMITS FOR THE BASE BID SHALL BE PROTECTED IN PLACE. ANY DAMAMGE TO EXISTING ITEMS NOT SCHEDULED TO BE DEMOLISHED/REMOVED SHALL BE REPAIRED IN KIND BY THE CONTRACTOR AT HIS EXPENSE.

9. ALL EXISTING UTILIITIES (STRUCTURES AND PIPES) WITHIN THE LIMIT OF WORK SHALL BE ABANDONED UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. TOP 2' OF ALL DRAINAGE STRUCTURES SHALL BE REMOVED AND STRUCTURE SHALL BE FILLED WITH CRUSHED STONE. CAP/ABANDON UTILITY CONNECTIONS TO THE MAINS AT THE STREET IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. UTILITIES CONFLICITNG WITH PROPSOED WORK SHALL BE REMOVED.

10. WATER: ALL NEW OR MODIFIED CONNECTIONS MAY REQUIRE A PERMIT APPLICATION AND POTENTIAL ASSOCIATED CONNECTION FEE. ALL NEW PIPING MUST BE PRESSURE TESTED AND DISINFECTED PER AWWA STANDARDS. BACKFLOW DEVICES SHALL BE INSTALLED AND INSPECTED PRIOR TO SERVICE BEING TURNED ON.

11. SEWER: ALL NEW OR PROPOSED/MODIFIED CONNECTIONS MAY REQUIRE A PERMIT APPLICATION AND POTENTIAL CONNECTION FEE.

12. EROSION & SEDIMENT CONTROL: EROSION & SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED DURING CONSTRUCTION AND POST CONSTRUCTION UNIL THE SITE IS STABILIZED. ALL CATCH BASINS SHALL BE PROTECTED FROM EROSION & SEDIMENT DURING THAT TIME PERIOD.

13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING CONDITIONS. IF THERE ARE ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE OWNER.

14. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITH LAWN OR BITUMINOUS PAVEMENT OR AS NOTED ON THE CONTRACT DOCUMENTS.

NOTE: FOR SOLAR PV SITE PLAN SEE SHEET PV-100

NOTE: FOR PLUMBING PLAN SEE SHEET P-100

NOTE: FOR GEOTHERMAL PLAN SEE SHEET M-101

NOTE: FOR ELECTRICAL SITE PLAN SEE SHEET C-103 & E-100

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Issued	By	Appd	YYYY.MM.DD
ISSUED FOR BID	ZM	PK	2024.08.30
100% CONSTRUCTION DOCUMENTS	ZM	PK	2024.04.03

File Name: N/A	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
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Client/Project Logo

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
Site Plan

Project No. 192311093

Scale 1" = 20'

Date 2024.05.24

Drawing No. C-102 A

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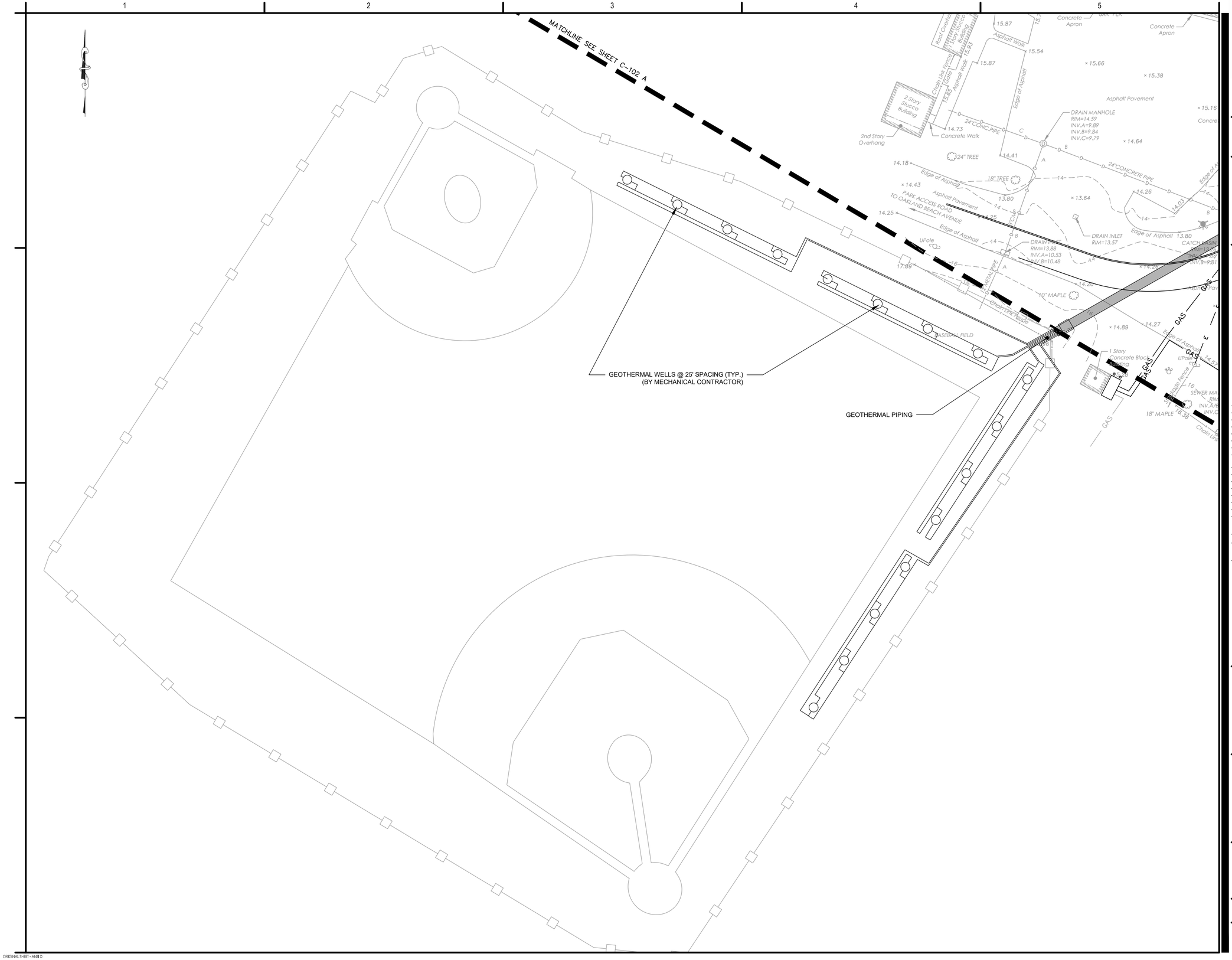

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Client/Project Logo

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
Site Plan

Project No.	Scale
192311093	1" = 20'
Date	Drawing No.
2024.05.24	**C-102B**

Plot Date:
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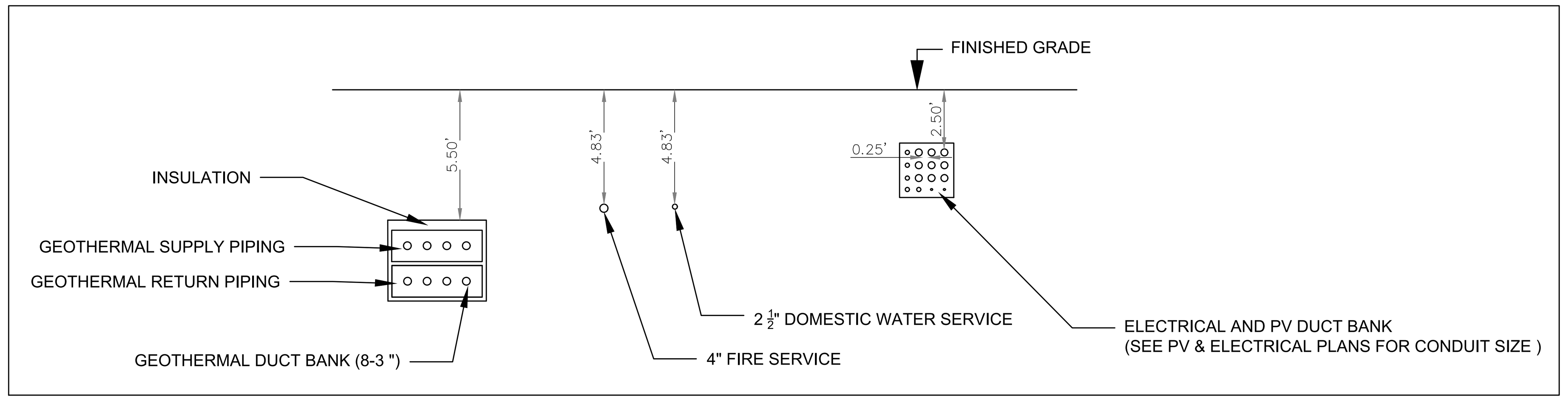
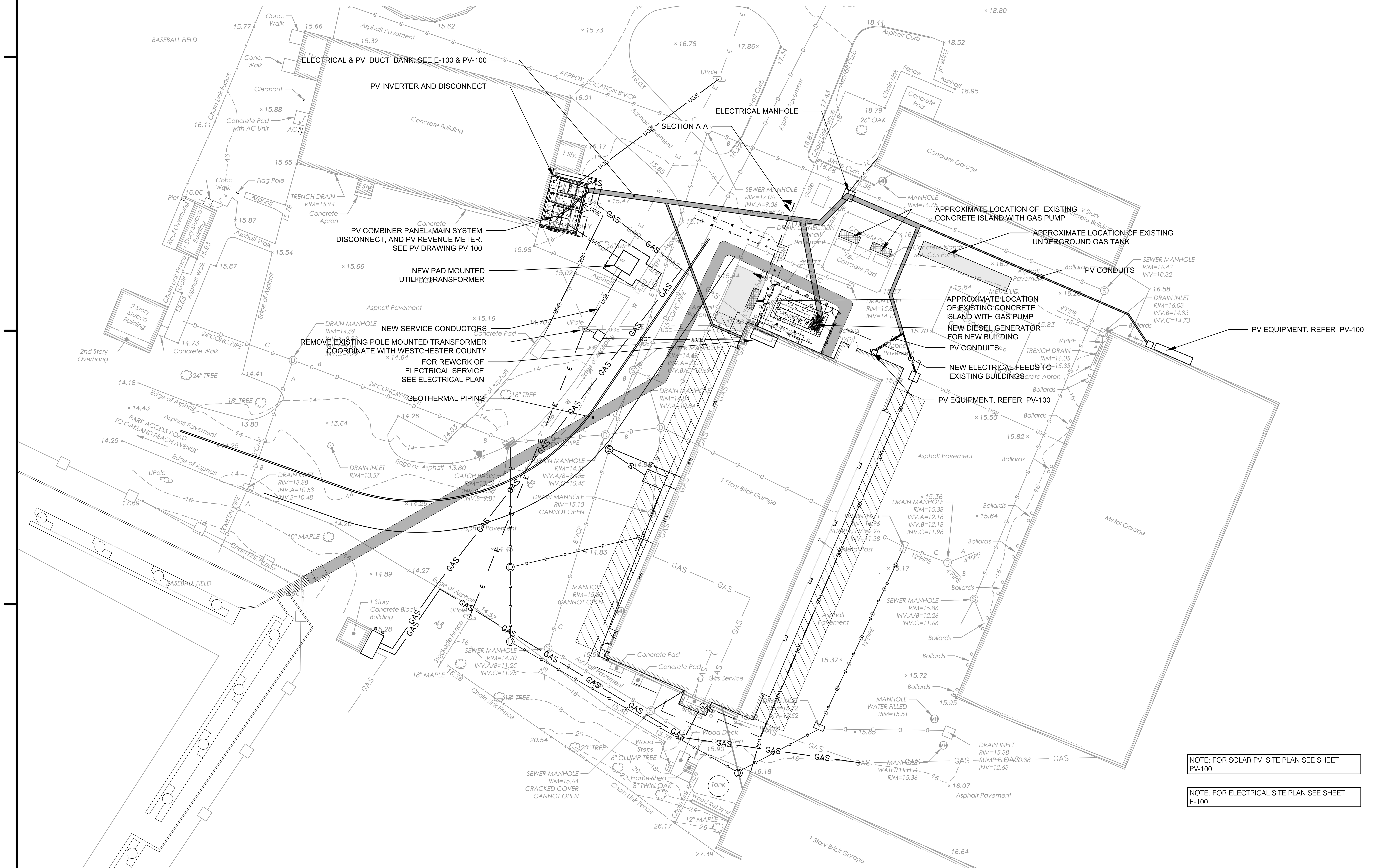


SECTION A-A



NOTE: FOR SOLAR PV SITE PLAN SEE SHEET PV-100

NOTE: FOR ELECTRICAL SITE PLAN SEE SHEET E-100

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ORIGINAL SHEET - ANSI D

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Client/Project Logo

16 60 19 04 CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

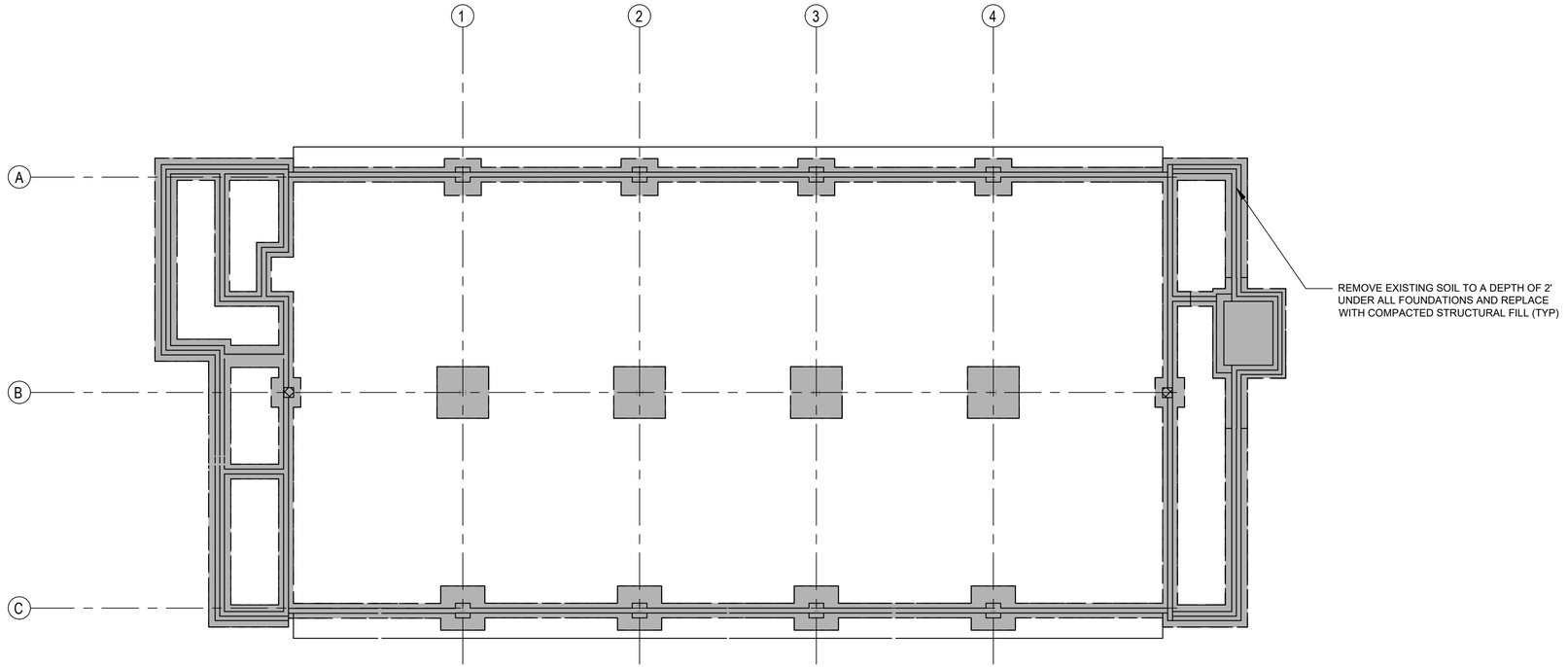
Title
Electrical Site Plan

Project No. 192311093

Scale 1" = 20'

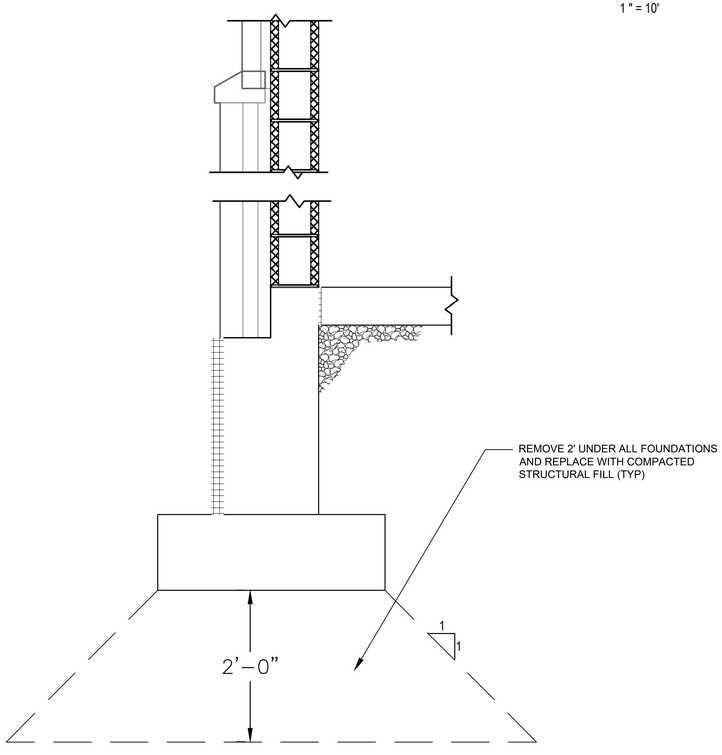
Date 2024.05.24

Drawing No. **C-103**



PLAN

1 " = 10'



SECTION

1 " = 1'-0"

Stantec

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Client/Project Logo

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
Soil Removal Plan

Project No.	Scale
192311093	N.T.S.
Date	Drawing No.
2024.05.24	C-104

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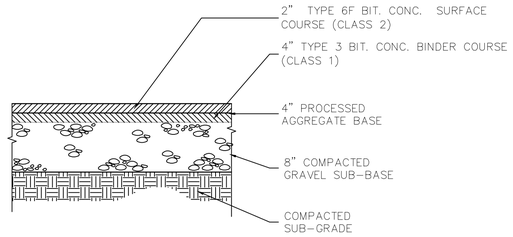
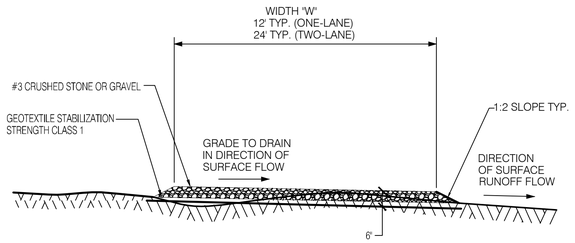
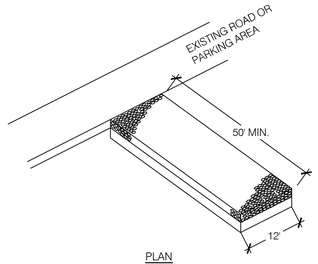
ORIGINAL SHEET - ANSI D



1 BITUMINOUS CONCRETE PAVEMENT REPAIR - FOR DRIVEWAYS AND PARKING LOTS



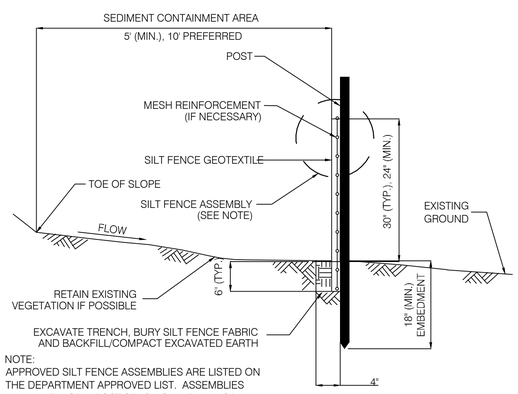
LONGITUDINAL SECTION



PLAN

2 STABILIZED CONSTRUCTION ENTRANCE

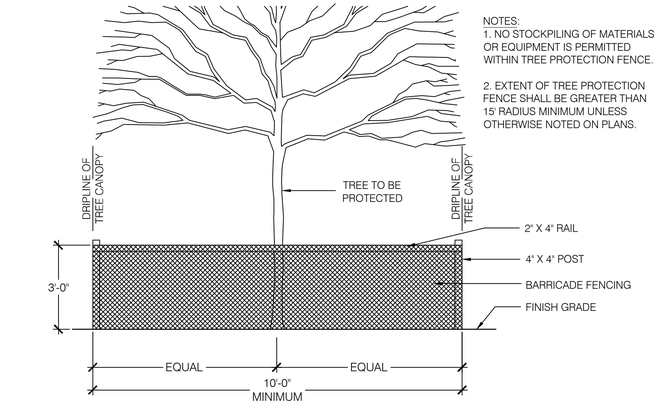
SCALE: N.T.S.



NOTE:
APPROVED SILT FENCE ASSEMBLIES ARE LISTED ON THE DEPARTMENT APPROVED LIST. ASSEMBLIES MAY HAVE 4' OR 6' POST SPACING, AND MAY OR MAY NOT HAVE MESH REINFORCEMENT, AS PER APPROVED LIST.

3 SILT FENCE DETAIL

SCALE: N.T.S.

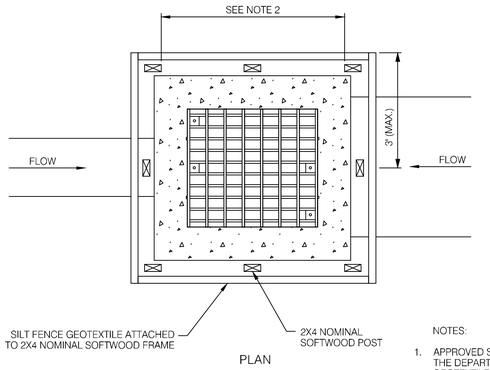


NOTES:
1. NO STOCKPILING OF MATERIALS OR EQUIPMENT IS PERMITTED WITHIN TREE PROTECTION FENCE.

2. EXTENT OF TREE PROTECTION FENCE SHALL BE GREATER THAN 15' RADIUS MINIMUM UNLESS OTHERWISE NOTED ON PLANS.

4 TREE PROTECTION FENCE

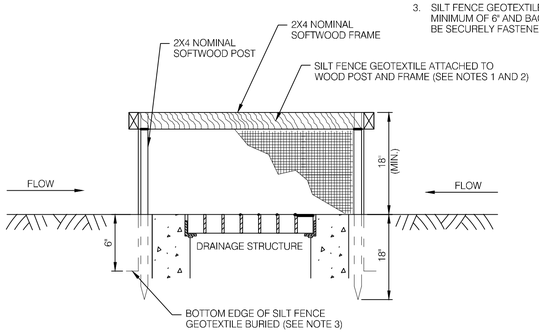
SCALE: N.T.S.



PLAN

NOTES:

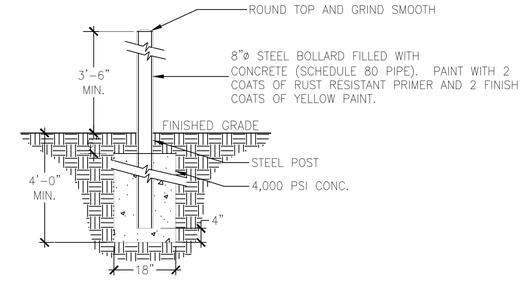
1. APPROVED SILT FENCE GEOTEXTILES ARE LISTED ON THE DEPARTMENT'S APPROVED LIST. SILT FENCE GEOTEXTILE SHALL BE A SINGLE CONTINUOUS PIECE TO ELIMINATE JOINTS.
2. SPACE SILT FENCE POSTS EVENLY AROUND INLET WITH A MAXIMUM SPACING OF 3'. DRIVE POSTS A MINIMUM OF 18" INTO GROUND. WIRE MESH MAY BE REQUIRED BEHIND GEOTEXTILE TO PROVIDE SUPPORT.
3. SILT FENCE GEOTEXTILE SHALL BE EMBEDDED A MINIMUM OF 6" AND BACKFILLED. GEOTEXTILE SHALL BE SECURELY FASTENED TO POSTS AND FRAME.



SECTION

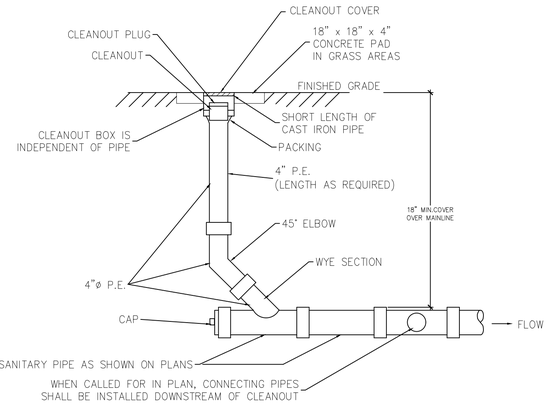
5 FILTER FABRIC INLET PROTECTION

SCALE: N.T.S.



6 BOLLARD

SCALE: N.T.S.



7 CLEAN OUT DETAILS

SCALE: N.T.S.

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DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
Site Details

Project No.	Scale
192311093	N.T.S.
Date	Drawing No.
2024.05.24	C-105A

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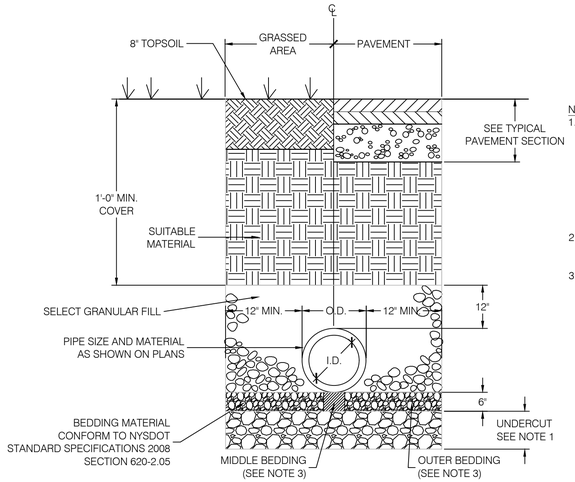
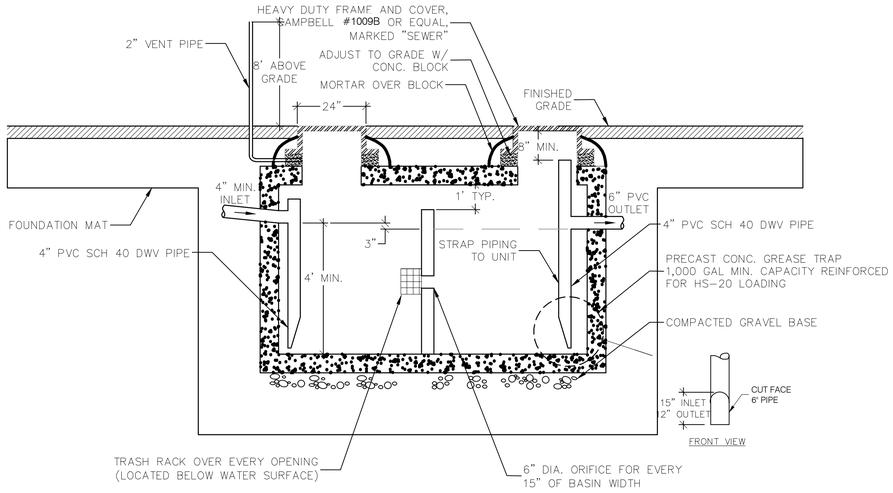
ORIGINAL SHEET - ANSI D

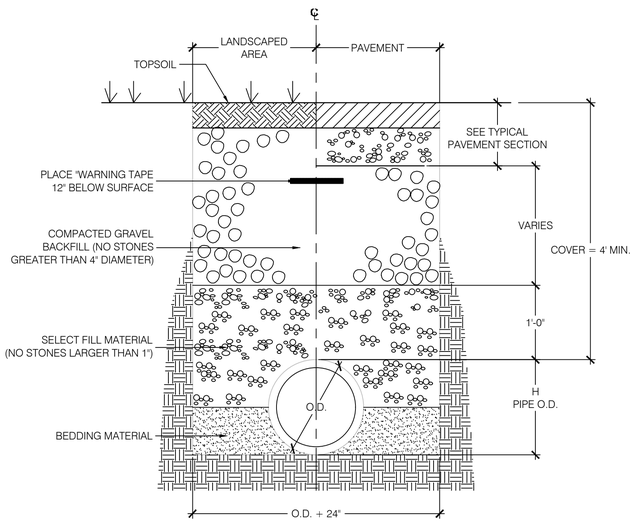


NOTES:
1. TO ESTABLISH STABLE BEDDING CONDITIONS, AN UNDERCUT BACKFILLED WITH SELECT GRANULAR FILL MATERIAL MAY BE ORDERED BY THE ENGINEER IN CHARGE. THE MINIMUM DEPTH OF UNDERCUT AS MEASURED FROM THE BEDDING CONTROL LINE IS 12" AND THE MAXIMUM IS 24".
2. THERE SHALL BE NO ADDITIONAL PAY FOR TRENCH SECTION IN ROCK.
3. LOOSELY PLACE SELECT GRANULAR FILL IN MIDDLE BEDDING AREA (O.D./3). DO NOT COMPACT MIDDLE BEDDING AREA. COMPACTION OF OUTER BEDDING AREAS SHALL CONFORM WITH SECTION 203-3.15 OF NYSDOT STANDARD SPECS.

1 TYPICAL TRENCH SECTION (STORM/SANITARY)
SCALE: N.T.S.



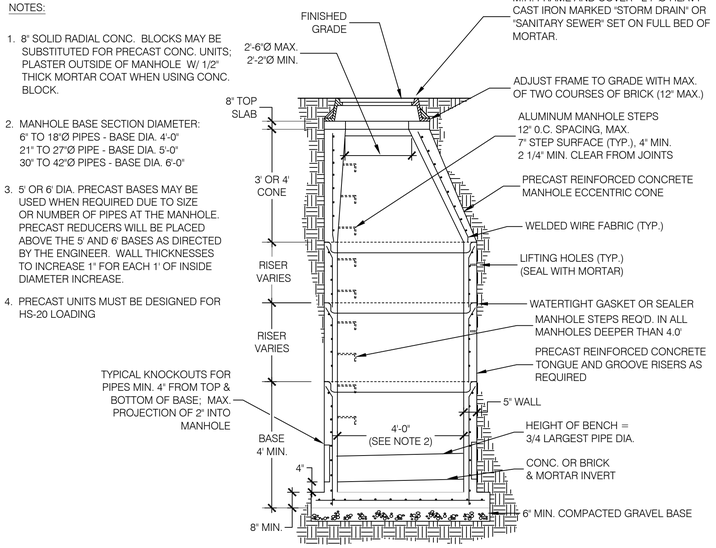
3 OIL/WATER SEDIMENT SEPARATOR
SCALE: N.T.S.



NOTES:
1. WATER PIPE SHALL BE PLACED IN ACCORDANCE WITH ALL APPLICABLE WATER COMPANY SPECIFICATIONS.
2. THERE SHALL BE NO ADDITIONAL PAY FOR TRENCH SECTION IN ROCK.

2 TYPICAL TRENCH SECTION (WATER PIPE)
SCALE: N.T.S.

NOTES:
1. 8" SOLID RADIAL CONC. BLOCKS MAY BE SUBSTITUTED FOR PRECAST CONC. UNITS; PLASTER OUTSIDE OF MANHOLE W/ 1/2" THICK MORTAR COAT WHEN USING CONC. BLOCK.
2. MANHOLE BASE SECTION DIAMETER:
   6" TO 18"Ø PIPES - BASE DIA. 4'-0"
   21" TO 27"Ø PIPE - BASE DIA. 5'-0"
   30" TO 42"Ø PIPES - BASE DIA. 6'-0"
3. 5' OR 6' DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' AND 6' BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESSES TO INCREASE 1" FOR EACH 1' OF INSIDE DIAMETER INCREASE.
4. PRECAST UNITS MUST BE DESIGNED FOR HS-20 LOADING



4 TYPICAL SANITARY OR STORM MANHOLE
SCALE: N.T.S.

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RYE, NY 10580

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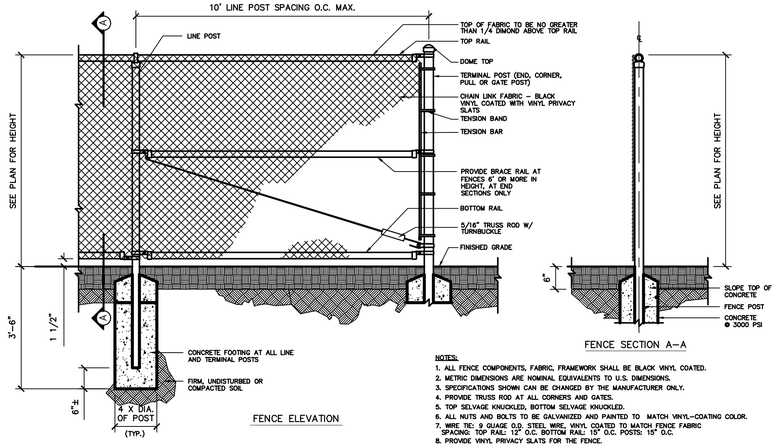
Date	Drawing No.
2024.05.24	C-105B

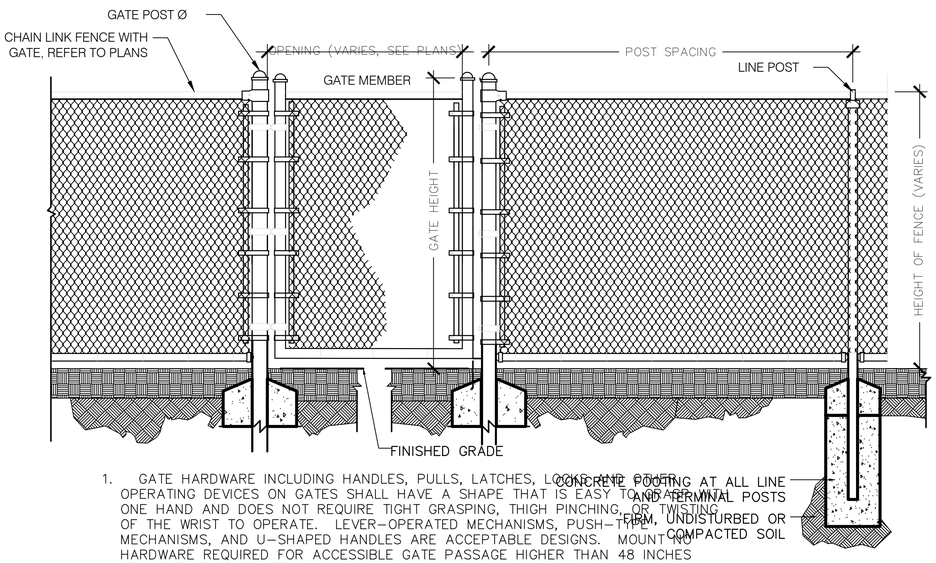


NOTES:
1. ALL FENCE COMPONENTS, FABRIC, FRAMEWORK SHALL BE BLACK VINYL COATED.
2. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
3. SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY.
4. PROVIDE TRUSS ROD AT ALL CORNERS AND GATES.
5. TOP SELVAGE KNUCKLED, BOTTOM SELVAGE KNUCKLED.
6. ALL NUTS AND BOLTS TO BE GALVANIZED AND PAINTED TO MATCH VINYL-COATING COLOR.
7. WIRE TIE: 9 GUAGE O.D. STEEL WIRE, VINYL COATED TO MATCH FENCE FABRIC SPACING: TOP RAIL: 12" O.C. BOTTOM RAIL: 15" O.C. POSTS: 15" O.C.
8. PROVIDE VINYL PRIVACY SLATS FOR THE FENCE.

1 CHAIN LINK FENCE DETAIL
SCALE: N.T.S.

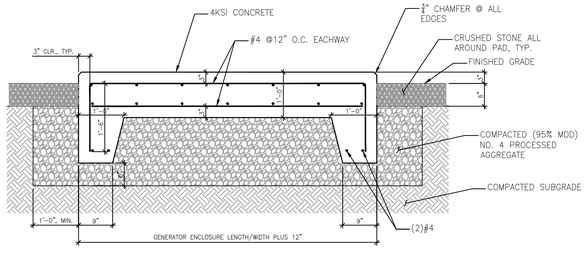
SIZING SCHEDULE FOR GATE FRAMEWORK

HEIGHT OF FENCE	DIAMETER OF LINE POSTS	POST SPACING MAXIMUM	GATE POST Ø	HORIZ. BRACE AT GATE POST	SIZE OF GATE MEMBERS	HORIZ. BRACE ON GATES	SINGLE GATE HEIGHT	SINGLE GATE WIDTH	DIAG. TRUSS ON GATE	DIAG. TRUSS FENCE PANEL	PORTAL	HEAD RAIL	FOOTING TYPE
8'-0"	2 1/2"	8'-0"	3"	1 -1 5/8"	2"	1 5/8"	7'-7"	VARIES	1/2" ø	1/2" ø	NO	0	30"ø

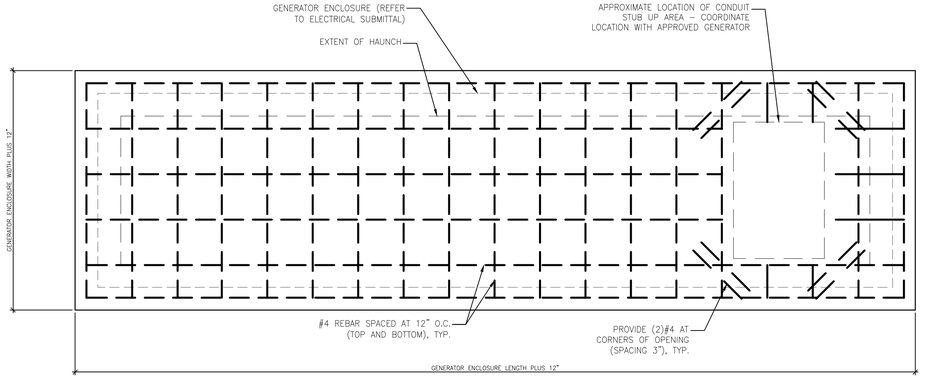


1. GATE HARDWARE INCLUDING HANDLES, PULLS, LATCHES, LOCKS AND POSITIVE OPERATING DEVICES ON GATES SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, THIGH PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. MOUNT ANY HARDWARE REQUIRED FOR ACCESSIBLE GATE PASSAGE HIGHER THAN 48 INCHES ABOVE FINISHED GRADE.

2 CHAIN LINK GATE DETAIL
SCALE: N.T.S.

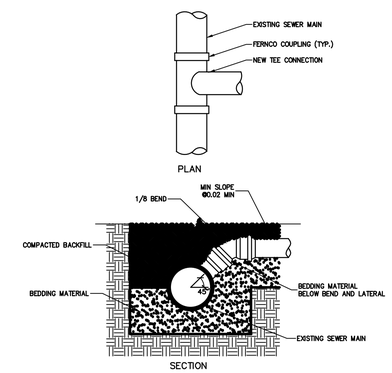


SECTION VIEW



PLAN VIEW

3 GENERATOR CONCRETE PAD
SCALE: N.T.S.



NOTE: DETAIL MAY NOT REFLECT FIELD CONDITIONS. ALL CONNECTIONS TO BE IN CONFORMANCE WITH TOWN REQUIREMENTS.

4 SEWER LATERAL CONNECTION
SCALE: N.T.S.

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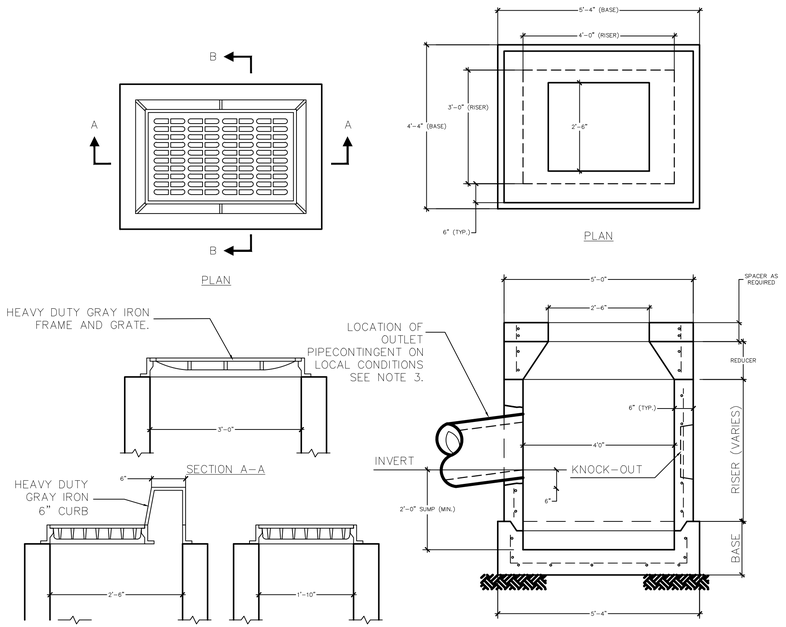


NOTES:
1. MASONRY CATCH BASIN SHOWN.
2. PRECAST CATCH BASIN SIMILAR. SEE STANDARD CATCH BASIN DETAIL FOR ADDITIONAL INFORMATION.

NOTES:
1. APPLICABLE FOR TYPE "C" AND TYPE "C-L" CATCH BASINS.
2. HEAVY DUTY GRATE AND FRAME NOT SHOWN.

TYPICAL PRECAST CATCH BASIN (STANDARD)

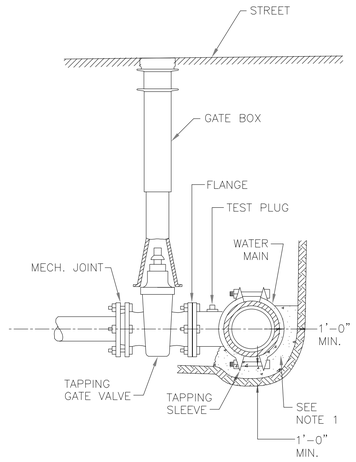
NOTES:
1. ALL PRECAST SECTIONS SHALL BE CONSTRUCTED OF REINFORCED CONCRETE, INCLUDING THE SUMP. REINFORCING SHALL CONFORM TO ASTM A615, GRADE 40 OR BETTER. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. HS 20 LOADING.

2. UNREINFORCED PIPES SHALL BE CUT FLUSH WITH INSIDE FACE OF C.B. WALL. REINFORCED PIPES SHALL BE CUT TO PROVIDE 1" RECESS INTO FACE OF C.B. WALL. CUT END SHALL THEN BE PATCHED WITH MORTAR FLUSH WITH WALL.

3. ALL UNUSED KNOCK-OUTS SHALL BE BRICKED UP WHERE DIRECTED BY THE ENGINEER.

4. TYPE "C" CATCH BASIN HEAVY DUTY FRAME AND GRATE TO BE CAMPBELL FOUNDRY CO. NO. 2617 OR ENGINEER APPROVED EQUAL.

1 DRAIN INLETS DETAILS
SCALE: N.T.S.



NOTES:
1. POURED CONCRETE THRUST BLOCK TO BE INSTALLED AFTER TAP IS MADE. PROTECT NUTS FROM CONCRETE WITH 6 MIL POLY COVER OR EQUAL.

2 WATER MAIN SERVICE TAP DETAIL
SCALE: N.T.S.

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ORIGINAL SHEET - ANSI D

1 - GENERAL NOTES

A. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, HVAC, PLUMBING AND CIVIL DRAWINGS AND SPECIFICATIONS.

B. CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, ETC., IN FIELD AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION OR SHOP DRAWINGS.

C. THE DRAWINGS ARE INTENDED TO REQUIRE AND TO INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT PROPER FOR THE WORK.

D. ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES AND REQUIREMENTS.

E. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND SAFETY PROCEDURES. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR THEIR AGENTS OR EMPLOYEES OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK.

F. OBSERVE ALL OSHA AND OTHER APPLICABLE SAFETY REQUIREMENTS INCLUDING THE USE OF SAFETY GLASSES, HARD HATS, AND PROTECTION OF AREA WHEN WORKING OVERHEAD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR CONSTRUCTION SAFETY AT ALL TIMES.

G. COORDINATE WORK OF ALL DISCIPLINES (ARCH., STRUCT., ELECT., ETC.) WITH EXISTING CONDITIONS, SPECIAL REQUIREMENTS, CONSTRUCTION SCHEDULE AND OTHER CONTRACTORS PERFORMING WORK AT THE SITE.

H. THE CONTRACTOR SHALL DESIGN AND PROVIDE ANY TEMPORARY SHORING, BRACING, ETC., AS NEEDED FOR THE WORK SO AS NOT TO ENDANGER THE STRUCTURAL INTEGRITY OF ANY EXISTING FEATURE.

I. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AS A RESULT OF THIS WORK. DAMAGED ITEMS SHALL BE REPLACED IN KIND AND AT NO ADDITIONAL COST TO THE OWNER.

J. SEE SPECIFICATIONS FOR FULL SCOPE OF REQUIREMENTS APPLICABLE TO THIS PROJECT.

K. SHOP DRAWINGS: REPRODUCTION OF DESIGN DRAWINGS SHALL NOT BE PERMITTED FOR SHOP DRAWING SUBMISSIONS. THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL REVIEW AND PROVIDE REVIEW STAMP ON SHOP DRAWING SUBMISSIONS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER INDICATING UNDERSTANDING AND ACCEPTANCE OF SUBMITTAL AND CONFIRMING CONFORMANCE TO PROJECT PLANS/SPECIFICATIONS.

2 - DESIGN CRITERIA

A. ROOF LOADS

LIVE LOAD	- 20 PSF
SOLAR PANEL WEIGHT	- 10 PSF
GROUND SNOW LOAD Pg	- 30 PSF
FLAT ROOF SNOW LOAD Pf	- 23 PSF
SNOW EXPOSURE FACTOR (Ce)	- 0.9
SNOW LOAD IMPORTANCE FACTOR (I)	- 1.2
THERMAL FACTOR Ct	- 1.0

SNOW DRIFTING LOAD EFFECTS CONSIDERED PER ASCE 7 - 16.

B. FLOOR LIVE LOADS

CORRIDORS	- 100 PSF
OFFICE	- 100 PSF
STAIRS	- 100 PSF
ASSEMBLY AREAS	- 100 PSF

C. WIND LOADS

BASIC WIND SPEED V	- 130 MPH
RISK CATEGORY	- IV
WIND EXPOSURE	- B
INTERNAL PRESSURE COEFFICIENT	- 0.18

D. SEISMIC

SEISMIC RISK CATEGORY	- IV
SEISMIC IMPORTANCE FACTOR, I_e	- 1.5
SEISMIC SITE CLASS	- D
DESIGN SPECTRAL RESPONSE S_{DS} AND S_{D1}	- 0.296/0.096
SEISMIC DESIGN CATEGORY	- C
BASIC SEISMIC FORCE - RESISTING SYSTEM	- INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR(S)	- 216 k
SEISMIC RESPONSE COEFFICIENT(S), C_S	- 0.137
RESPONSE MODIFICATION COEFFICIENT, R.	- 3.50
ANALYSIS PROCEDURE USED	- EQUIVALENT LATERAL FORCE

E. BUILDING IS DESIGNED USING 2020 NEW YORK STATE BUILDING CODE

3 - EARTHWORK

A. MATERIALS

a. ENGINEERED FILL, BACK FILL AND SUBBASE MATERIAL SHALL BE A SOIL GRANULAR MATERIAL CONFORMING TO THE GRADATION CRITERIA REFERENCED IN THE GEOTECHNICAL REPORT FOUND IN SECTION 4-FOUNDATIONS.

b. SAND SHALL CONSIST OF CLEAN SAND HAVING HARD, DURABLE, UNCOATED GRAINS, FREE FROM DELETERIOUS MATTER; FINENESS MODULUS SHALL BE 2.85+/- 0.20.

B. SUBMIT TEST RESULTS VERIFYING MATERIALS TO BE USED MEET THE ABOVE REQUIREMENTS.

C. STRIP TOPSOIL, ORGANIC MATERIAL, AND LOOSE SOILS INSIDE THE PROJECT AREA. REMOVE EXISTING ASPHALT AND CONCRETE STRUCTURES WITHIN 24 INCHES OF THE FINISHED FLOOR ELEVATION UNLESS NOTED OTHERWISE ON THE DRAWINGS. REMOVE THESE EXISTING MATERIALS COMPLETELY AT FOUNDATION LOCATIONS.

D. MATERIALS EXCAVATED BELOW INDICATED SUBGRADE ELEVATIONS, UNDER FOOTINGS, FOUNDATION BASES OR RETAINING WALLS SHALL BE REPLACED WITH LEAN CONCRETE FILL. BACK FILL OTHER AREAS WITH AUTHORIZED MATERIALS.

E. EXCAVATIONS SHALL BE KEPT FREE OF WATER AND ANY UNDESIRABLE MATERIALS WHILE WORK IS IN PROGRESS. NOTIFY OWNER'S REPRESENTATIVE WHEN EXCAVATION HAS BEEN RECOMPACTED AND REINFORCING PLACED. DO NOT PLACE CONCRETE UNTIL DIRECTED TO DO SO.

F. NO BACK FILLING OF FOUNDATION WALLS (EXCEPT RETAINING WALLS) SHALL BE DONE UNLESS WALLS ARE ADEQUATELY BRACED OR BACK FILL IS PLACED EQUALLY ON BOTH SIDES OF WALL.

G. PLACE ENGINEERED FILL IN LIFTS NOT EXCEEDING 6 INCHES TO WITHIN 8 INCHES OF THE BOTTOM OF SLAB. COMPACT EACH LIFT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D698).

H. COMPACT BACKFILL AFTER PLACING BELOW GRADE COMPONENTS TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D698).

I. COMPACTION TESTING TO BE PERFORMED AS FOLLOWS:

a. FILL UNDER BUILDING SLAB: A MINIMUM OF ONE TEST PER LAYER FOR EVERY 1000 SQUARE FEET OF ENGINEERED FILL. EACH 6" LIFT SHALL BE TESTED.

b. FOOTING AND TRENCH BACK FILL: A MINIMUM OF ONE TEST FOR EVERY TWO FEET OF FILL DEPTH FOR FOOTINGS AND ONE TEST FOR EVERY 50 LINEAR FEET OF TRENCH (MINIMUM ONE TEST PER TRENCH IF LESS THAN 50 FEET).

J. WRITTEN TEST RESULTS SHALL BE RECEIVED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ANY CONCRETE PLACEMENT.

4 - FOUNDATIONS

A. THE CONTRACTORS ATTENTION IS DIRECTED TOWARDS THE EARTHWORK REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT PREPARED BY SOILTESTING, INC. OF NEW YORK DATED 2-18-2020. ALL EARTHWORK AND FOUNDATION PREPARATION WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THIS REPORT.

B. DESIGN MAXIMUM ALLOWABLE BEARING PRESSURE = 4,000 PSF

C. ALL COLUMN AND WALL FOOTINGS SHALL BEAR ON APPROVED, UNDISTURBED NATIVE SOILS.

5 - CONCRETE WORK

A. SUBMITTALS

a. SUBMIT SHOP DRAWINGS SHOWING FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT. DETAILING SHALL COMPLY WITH THE ACI DETAILING MANUAL.

b. SUBMIT CONCRETE MIX PROPORTIONS WITH SUPPORTING TEST DATA, MATERIAL CERTIFICATIONS AND PRODUCT DATA, TO DEMONSTRATE COMPLIANCE WITH THE REQUIREMENTS BELOW AND THE PROJECT SPECIFICATIONS.

B. COMPLY WITH THE FOLLOWING CODES AND STANDARDS, LATEST EDITION:

a. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".

b. ACI 305, ACI 306, ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

c. ACI DETAILING MANUAL, LATEST EDITION.

d. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK".

e. CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD PRACTICE".

f. ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE".

C. MATERIALS:

a. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.

b. WELDED WIRE FABRIC (WWF) - ASTM A185, FLAT SHEETS.

c. SUPPORTS FOR REINFORCEMENT:
- (A) FOR SLABS-ON-GRADE USE CONCRETE BRICKS OR CHAIRS TO SUPPORT AND MAINTAIN PROPER LOCATION OF WWF AND REINFORCING BARS.
- (B) BOLSTERS, CHAIRS, SPACERS, ETC. SHALL BE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI SPECS. FOR EXPOSED TO VIEW SURFACES WHERE SUPPORTS ARE IN CONTACT WITH FORMS, PROVIDE SUPPORTS WITH LEGS WHICH ARE PROTECTED BY PLASTIC OR STAINLESS STEEL.

d. PORTLAND CEMENT-ASTM C150, TYPE II.

e. AGGREGATES-ASTM C33.

f. AIR ENTRAINING ADMIXTURE-ASTM C260, CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER REQUIRED ADMIXTURES.

g. PROHIBITED ADMIXTURES-CALCIUM CHLORIDE THYOCYANATES OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE IONS ARE NOT PERMITTED.

h. PROPORTIONING AND DESIGN OF MIXES:

i. PREPARE DESIGN MIXES FOR EACH TYPE, AND STRENGTH OF CONCRETE BY EITHER LABORATORY TRIAL BATCH OR FIELD EXPERIENCE METHODS AS SPECIFIED IN ACI 318.

j. NORMAL WEIGHT CONCRETE-MINIMUM 28 COMPRESSIVE STRENGTH 4000 PSI. (TYP. UNO) COORDINATE WITH SPECIFICATIONS.

D. FORM WORK:

a. PROVIDE OPENINGS IN CONCRETE FORM WORK TO ACCOMMODATE WORK OF OTHER TRADES.

E. CONCRETE SHALL BE READY MIXED PER ASTM C94. JOB SITE MIXING SHALL NOT BE PERMITTED.

F. CONCRETE PLACEMENT:

a. THE ADDITION OF WATER TO THE CONCRETE MIX AT THE JOB SITE IS NOT PERMITTED UNLESS SPECIFICALLY ALLOWED BY THE OWNER'S REPRESENTATIVE.

b. PROTECT CONCRETE WORK FROM THE DETRIMENTAL EFFECTS OF COLD TEMPERATURES IN COMPLIANCE WITH ACI 306.

c. PROTECT CONCRETE WORK FROM THE DETRIMENTAL EFFECTS OF HOT WEATHER OR WINDY CONDITIONS IN COMPLIANCE WITH ACI 305.

d. PLACE FLOOR SLABS TO SURFACE LEVEL TOLERANCES OF FF20-FL17.

G. CONCRETE FINISHES:

a. FORMED SURFACES EXPOSED TO VIEW - SMOOTH RUBBED FINISH. SLAB FINISH - PROVIDE TROWEL FINISH.

H. PROVIDE MOISTURE CURE TO SLAB SURFACES FOR 7 DAYS BY EITHER COVERING THE CONCRETE WITH WATER, APPLYING A CONTINUOUS WATER-FOG SPRAY, OR COVERING WITH AN ABSORPTIVE COVER. CHEMICAL CURING COMPOUNDS WILL NOT BE ALLOWED ON FLOOR SLABS.

I. THE OWNER WILL EMPLOY A TESTING AGENCY TO PERFORM SAMPLING AND TESTING AND SUBMIT TEST REPORTS.

J. SAMPLING AND TESTING OF CONCRETE SHALL INCLUDE:

a. SLUMP-ASTM C143-ONE TEST AT POINT OF PLACEMENT FOR EACH TRUCK LOAD OF EACH TYPE OF CONCRETE UNTIL CONCRETE CONSISTENCY IS UNIFORM, AND AT LEAST EVERY THIRD TRUCK THEREAFTER; ADDITIONAL TESTS WHEN CONCRETE C CONSISTENCY SEEMS TO HAVE CHANGED.

b. AIR ENTRAINMENT-ASTM C173 VOLUMETRIC METHOD, OR ASTM C231 PRESSURE METHOD, ONE FOR EACH DAY'S PLACEMENT OF EACH TYPE OF AIR ENTRAINED CONCRETE.

c. CONCRETE TEMPERATURE-TEST HOURLY WHEN AIR TEMPERATURE IS 41°F AND BELOW OR WHEN 80°F AND ABOVE; AND EACH TIME A SET OF COMPRESSION TEST CYLINDERS IS MADE.

d. COMPRESSION TEST SPECIMENS-ASTM C31-ONE SET OF 6 CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS. COMPRESSIVE STRENGTH TESTS-ASTM C39-ONE SET FOR EACH DAY'S PLACEMENT EXCEEDING 5 CUBIC YARDS PLUS ADDITIONAL SETS FOR EACH 50 CUBIC YARDS OVER AND ABOVE THE FIRST 25 CUBIC YARDS OF EACH CONCRETE CLASS PLACED IN ONE DAY; TWO SPECIMENS TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS, AND TWO SPECIMENS RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED.

e. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF f'c=4000 PSI (TYPICAL UNLESS NOTED)

6 - MASONRY

A. SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LOCATION, SIZE AND SPACING OF REINFORCED MASONRY.

B. SUBMITTALS

a. SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF MASONRY REINFORCEMENT COMPLYING WITH ACI DETAILING MANUAL.

C. SUBMIT DESIGN MIXES FOR EACH TYPE GROUT AT LEAST 15 DAYS PRIOR TO START OF WORK.

D. MATERIALS

a. CONCRETE MASONRY UNITS: HOLLOW OR SOLID UNITS ASTM C90. ALL UNITS SHALL BE TYPE I,NORMAL WEIGHT AUTOCLAVED CURED. MOISTURE CONTENT SHALL NOT EXCEED 30% OF MAXIMUM ABSORPTION, AND SHRINKAGE SHALL BE LESS THAN 0.35% AS PER ASTM C426.
b. MORTAR: ASTM C270, TYPE S. NO MASONRY CEMENT WILL BE ALLOWED.
c. f'm=1,500 psi
d. REINFORCEMENT BARS: ASTM A615 GRADE 60.
e. JOINT REINFORCEMENT: TRUSS TYPE WITH 0.148 INCH DIAMETER
f. FINE GROUT: ASTM C476.

E. TESTING PROCEDURE:

F. BLOCKS SHALL BE TESTED PER ASTM C-140 FOR STRENGTH, ABSORPTION AND SIZE.

G. STRENGTH OF MASONRY CONSTRUCTION SHALL BE DETERMINED BY UNIT STRENGTH METHOD IN ACCORDANCE WITH ACI 530.1, SPECIFICATION FOR MASONRY STRUCTURES, SECTION 1.4.

a. GROUT COMPRESSIVE STRENGTH SHALL BE DETERMINED IN ACCORDANCE WITH ASTM C-1019. GROUT SLUMP SHALL BE DETERMINED IN ACCORDANCE WITH ASTM C-143. ONE SET OR MORTAR CUBES (3 EACH) SHALL BE PREPARED EVERY 5000 SQ. FT. OF WALL CONSTRUCTED.

H. PROTECT MASONRY WORK FROM DAMAGE DUE TO OTHER WORK AND THE WEATHER AS RECOMMENDED BY NCMA. ALL UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. SOLID UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS, 3/8" THICK. LAY IN FULL RUNNING BOND UNLESS INDICATED OTHERWISE.

I. PLACE HORIZONTAL REINFORCING ON FULL MORTAR BED AT 16" O.C. MIN. OR AS INDICATED ON DRAWINGS. VERTICAL REINFORCING IN MASONRY WHERE SHOWN SHALL BE PLACED IN GROUT FILLED CORES AND PROPERLY LOCATED AS INDICATED. SPLICES SHALL BE MINIMUM 48 X BAR DIAMETER.

J. USE LOW-LIFT GROUTING TECHNIQUES TO FILL CORES, UNLESS HIGH-LIFT GROUTING (VERTICAL PLACEMENT >4'0") IS APPROVED BY THE OWNER'S REPRESENTATIVE IN WRITING.

K. USE UNIT TEST METHOD, ACCORDING TO ASTM C -140, TO VERIFY MATERIALS PROPERTIES.

L. ALL EXPOSED MORTAR JOINTS SHALL BE TOOLED.

M. ALL LAP SPLICES SHALL BE 48 BAR DIAMETERS (TYP. UNO)

7 - STRUCTURAL STEEL

A. STRUCTURAL STEEL WORK INCLUDES ALL STRUCTURAL STEEL TO BE FURNISHED AND ERECTED, BEAMS, COLUMNS, CHANNELS, ANGLES, JOISTS, LINTELS, BEARING PLATES, ETC., AS INDICATED ON THE DRAWINGS.

B. COMPLY WITH THE FOLLOWING CODES AND STANDARDS:

a. AISC STEEL CONSTRUCTION MANUAL, ASD, 14TH EDITION
b. AMERICAN WELDING SOCIETY (AWS) DI.1 "STRUCTURAL WELDING CODE STEEL", 2015.
c. CURRENT OSHA ERECTION AND FABRICATION REQUIREMENTS.

C. MATERIALS:

a. BEAMS, GIRDERS AND COLUMNS: ASTM A992
b. ANGLES, BARS AND PLATES: ASTM A-36.
c. TUBE STEEL: ASTM A500, GRADE C Fy=46 KSI (ROUND), 50 KSI (RECTANGULAR)
d. PIPE: SCHEDULE 40 CONFORMING TO ASTM A53, GRADE B. U.N.O.
e. HIGH STRENGTH BOLTS: ASTM A 325.
f. WELDS: E70XX ELECTRODES.
g. CHANNELS: A36

D. ALL STRUCTURAL STEEL SHOP CONNECTIONS SHALL BE WELDED AND ALL FIELD CONNECTIONS SHALL BE HIGH-STRENGTH BOLTED UNLESS SHOWN OTHERWISE.

E. ALL BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE. SLIP CRITICAL BOLTS SHALL BE USED AT ALL MOMENT CONNECTIONS.

F. PROVIDE ANCHORS AND OTHER DEVICES TO BE BUILT INTO CONCRETE WORK.

G. STEEL SHALL RECEIVE ONE COAT OF PRIMER PAINT, UNLESS NOTED OTHERWISE.

H. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS INCLUDING COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS, PROCEDURES AND DIAGRAMS.

I. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.

J. ALL CONNECTIONS NOT SPECIFICALLY DETAILED SHALL BE EITHER BOLTED OR WELDED CONNECTIONS.

K. ALL BOLTED CONNECTIONS SHALL BE (2) 3/4" DIA. A325 BOLTS MINIMUM (TYP. UNO).

L. ALL WELDED CONNECTIONS SHALL BE IN 3/16" FILLET WELDED ALL AROUND (TYP. UNO).

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	DJL	LO	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	DJL	LO	MJS	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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9-13-2024

Client/Project Logo

1660 1904 CITY OF RYE NY 1942

Client/Project

City of Rye

Disbrow Park DPW

Title

NOTES AND SPECIAL INSPECTIONS

Project No.	Scale
192311093	12" = 1'-0"
Date	Drawing No.
2024.07.23	S-001

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9 - SPECIAL INSPECTIONS

1. THIS PROJECT REQUIRES SPECIAL INSPECTIONS AS DESCRIBED IN SECTION 1704 OF THE 2020 NEW YORK STATE BUILDING CODE.
2. THE OWNER SHALL ENGAGE AN APPROVED TESTING/INSPECTION AGENCY TO PROVIDE SPECIAL INSPECTION AND TESTING AS REQUIRED. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE THEIR SCHEDULE WITH THE TESTING/INSPECTION AGENCY.
3. DEFINITIONS AND REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2020 NEW YORK STATE BUILDING CODE. FAILURE TO COMPLY WILL RESULT IN REMOVAL AND RECONSTRUCTION OF ANY STRUCTURAL ELEMENTS NOT VERIFIED, TESTED, OR INSPECTED.
4. THE FOLLOWING ITEMS WILL REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE REFERENCED BUILDING CODE:

STEEL

ITEM	SCOPE
1. MATERIAL CERTIFICATION	REVIEW CERTIFIED MILL TEST REPORTS AND IDENTIFICATION MARKINGS ON WIDE-FLANGE SHAPES, HIGH-STRENGTH BOLTS, NUTS AND WELDING ELECTRODES.
2. BOLTING	INSPECT INSTALLATION AND TIGHTENING OF HIGH-STRENGTH BOLTS. VERIFY THAT SPLINES HAVE SEPARATED FROM TENSION CONTROL BOLTS. VERIFY PROPER TIGHTENING SEQUENCE. CONTINUOUS INSPECTION OF BOLTS IN SLIP-CRITICAL CONNECTIONS.
3. WELDING	VISUALLY INSPECT ALL WELDS. INSPECT PRE-HEAT, POST-HEAT AND SURFACE PREPARATION BETWEEN PASSES. VERIFY SIZE AND LENGTH OF FILLET WELDS. ULTRASONIC TESTING OF ALL FULL-PENETRATION WELDS.STRUCTURAL STEEL
4. STRUCTURAL DETAILS	STRUCTURAL DETAILS INSPECT STEEL FRAME FOR COMPLIANCE WITH STRUCTURAL DRAWINGS, INCLUDING BRACING, MEMBER CONFIGURATION AND CONNECTION DETAILS.

CAST-IN-PLACE CONCRETE

ITEM	SCOPE
1. MIX DESIGN	REVIEW CONCRETE BATCH TICKETS AND VERIFY COMPLIANCE WITH APPROVED MIX DESIGN. VERIFY THAT WATER ADDED AT THE SITE DOES NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.
2. REINFORCEMENT INSTALLATION	INSPECT SIZE, SPACING, COVER, POSITIONING AND GRADE OF REINFORCING STEEL. VERIFY THAT REINFORCING BARS ARE FREE OF FORM OIL OR OTHER DELETERIOUS MATERIALS. INSPECT BAR LAPS AND MECHANICAL SPLICES. VERIFY THAT BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS.
3. SAMPLING AND TESTING OF CONCRETE	TEST CONCRETE COMPRESSIVE STRENGTH (ASTM C31 & C39), SLUMP (ASTM C143), AIR-CONTENT (ASTM C231 OR C173) AND TEMPERATURE (ASTM C1064).

MASONRY

ITEM	SCOPE
1. MIXING OF MORTAR AND GROUT	INSPECT PROPORTIONING, MIXING AND RETEMPERING OF MORTAR AND GROUT.
2. INSTALLATION OF MASONRY	INSPECT SIZE, LAYOUT, BONDING AND PLACEMENT OF MASONRY UNITS.
3. MORTAR JOINTS	INSPECT CONSTRUCTION OF MORTAR JOINTS INCLUDING TOOLING AND FILLING OF HEAD JOINTS.
4. SAMPLING AND TESTING OF MASONRY	TEST COMPRESSIVE STRENGTH OF MASONRY CONSTRUCTION, MORTAR AND GROUT CUBE STRENGTH AS DEFINED ON THE DRAWINGS.
5. ANCHORS AND TIES	INSPECT SIZE, LOCATION, SPACING AND EMBEDMENT OF DOWELS, ANCHORS AND TIES.

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Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	DJL	LO	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	DJL	LO	MJS	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

9-13-2024

Client/Project Logo

Client/Project
City of Rye

Disbrow Park DPW

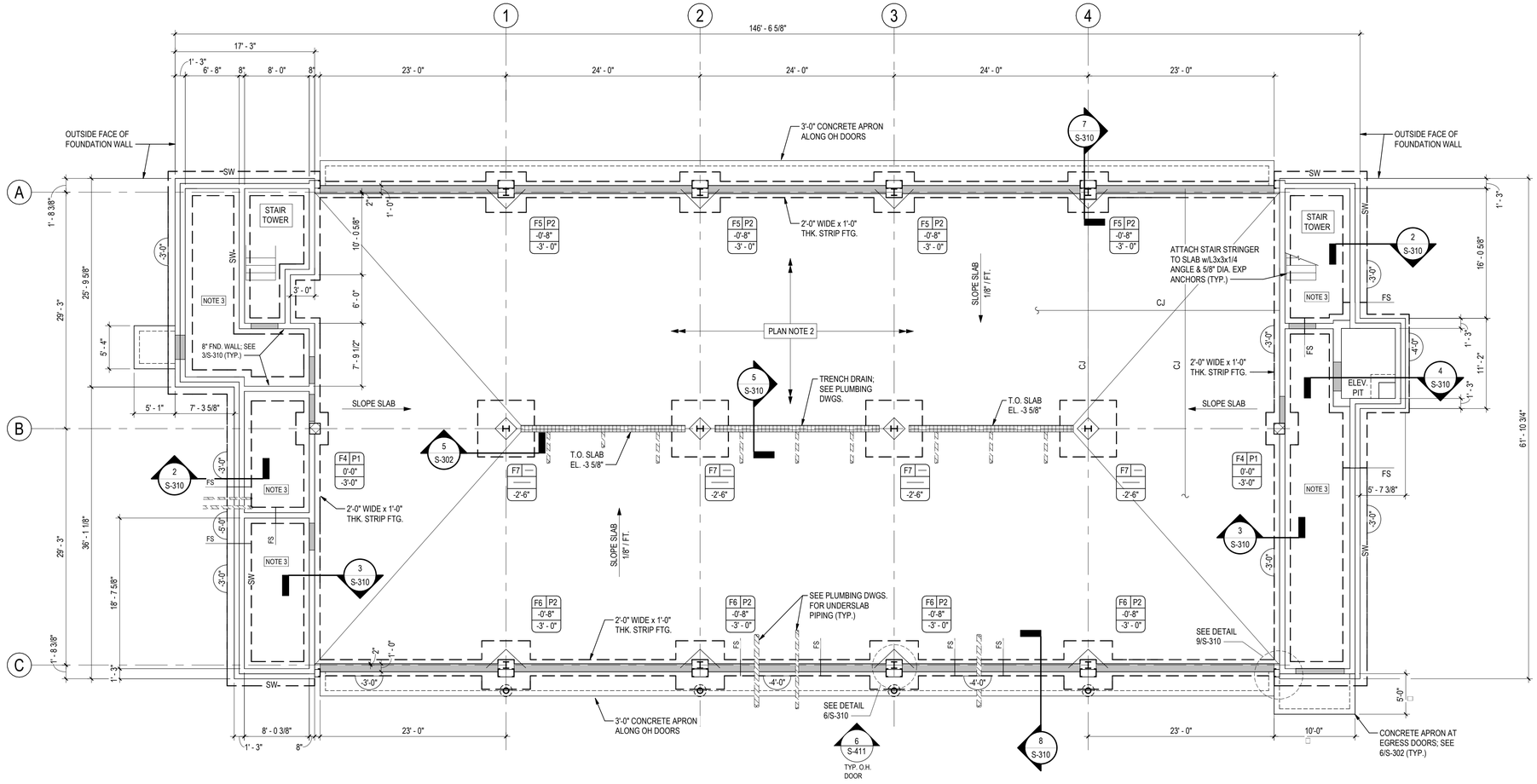
Title
NOTES AND SPECIAL INSPECTIONS

Project No.
192311093

Scale
12" = 1'-0"

Date
2024.07.23

Drawing No.
S-002

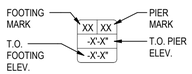


1 S-101 FOUNDATION / SLAB PLAN

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. DESIGN SOIL BEARING CAPACITY = 4000 PSF ON UNDISTURBED NATIVE SOIL OR COMPACTED STRUCTURAL FILL. PLACE NO CONCRETE PRIOR TO VERIFICATION OF BEARING CAPACITY BY A GEOTECHNICAL ENGINEER. FOUNDATIONS ARE BASED ON A GEOTECHNICAL REPORT BY SOILTESTING, INC AND DATED FEB. 18, 2020.
2. FLOOR SLAB SHALL BE 8" NORMAL WEIGHT CONCRETE SLAB-ON-GRADE REINFORCED WITH #5@12" O.C. EACH WAY. TOP OF SLAB ELEVATION = 0'-0" (USGS 15.9'). SLAB HAS RADIANT HEAT TUBING SYSTEM. SEE MECH DWGS AND 1/ S-301 FOR INFO.
3. FLOOR SLAB SHALL BE 5" NORMAL WEIGHT CONCRETE SLAB-ON-GRADE REINFORCED WITH 6x6-W2.9xW2.9 WWF. TOP OF SLAB ELEVATION = 0'-0" (USGS 15.9'). SEE 2/S-301.
4. (-X'-X") INDICATES TOP OF FOOTING ELEVATION REFERENCED FROM FINISHED SLAB ELEVATION 0'-0".
5. 'CJ' INDICATES SLAB-ON-GRADE CONTROL JOINT. SEE DETAIL 1/ S-301
6. 'FS' INDICATES FOOTING STEP. SEE DETAIL 6/ S-301
7. SEE DRAWING S-301, S-302 FOR TYPICAL SLAB AND FOUNDATION DETAILS.
8. SEE 1/ S-310 FOR FOOTING OVER EXCAVATION
9. SEE MEP DRAWINGS FOR SIZE AND LOCATION OF ALL UNDERSLAB UTILITIES.
10. INDICATES TOP OF FOUNDATION WALL ELEVATION IS -0'-8" BELOW FIN. FLOOR. SEE ARCH. DWGS. FOR DIMENSIONS AND LOCATIONS.
11. PROVIDE #4 x 2'-0" LONG AROUND FLOOR DRAINS. SEE MEP DRAWINGS FOR SIZE AND LOCATIONS.
12. SW INDICATES SHEAR WALL.



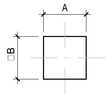
FOOTING SCHEDULE

(ALLOWABLE SOIL BEARING PRESSURE = 4000 PSF)

MARK	SIZE	DEPTH	REINFORCING EACH WAY, BOTTOM	REMARKS
F5	5'-0" x 5'-0"	1'-6"	(5) #5	
F6	6'-0" x 6'-0"	1'-6"	(6) #5	
F7	7'-0" x 7'-0"	1'-6"	(7) #5	

PIER SCHEDULE

MARK	SIZE A	SIZE B	VERTICAL REINFORCING	TIES	REMARKS
P1	1'-4"	1'-4"	(4) #6	(3) #4 @ 3" O.C. TOP; REMAINDER #4 @ 10" O.C.	
P2	2'-0"	2'-7"	(4) #8	(3) #4 @ 3" O.C. TOP; REMAINDER #4 @ 10" O.C.	



COLUMN SCHEDULE

COLUMN MARK	A-1, 2, 3, 4 C-1, 2, 3, 4	B-1, 2, 3, 4
TOP OF STEEL EL. 29'-4" (ROOF)		
TOP OF STEEL EL. 15'-7" (SECOND FLOOR)	W10x45	W10x33
FINISHED FLOOR EL. 0'-0"		
N	1'-4"	1'-4"
B	1'-4"	1'-4"
T	1"	1"
BOTTOM OF BASE PLATE EL.	-0'-7"	-2'-5"
ANCHOR BOLT SIZE AND EMBEDMENT	1" DIA.; 12" EMBEDMENT	1" DIA.; 12" EMBEDMENT

NOTES:

1. THE COLUMN LENGTHS SHOWN ARE SCHEMATIC. SEE PLAN FOR EXACT ELEVATIONS OF COLUMNS.
2. ANCHOR BOLTS SHALL BE F1554 GRADE 55 HEADED ANCHORS.

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ISSUE FOR BID	DJL	LO	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	DJL	LO	MJS	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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9-13-2024

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FOUNDATION / SLAB PLAN

Project No. 192311093

Scale As indicated

Date 2024.07.23

Drawing No. **S-101**

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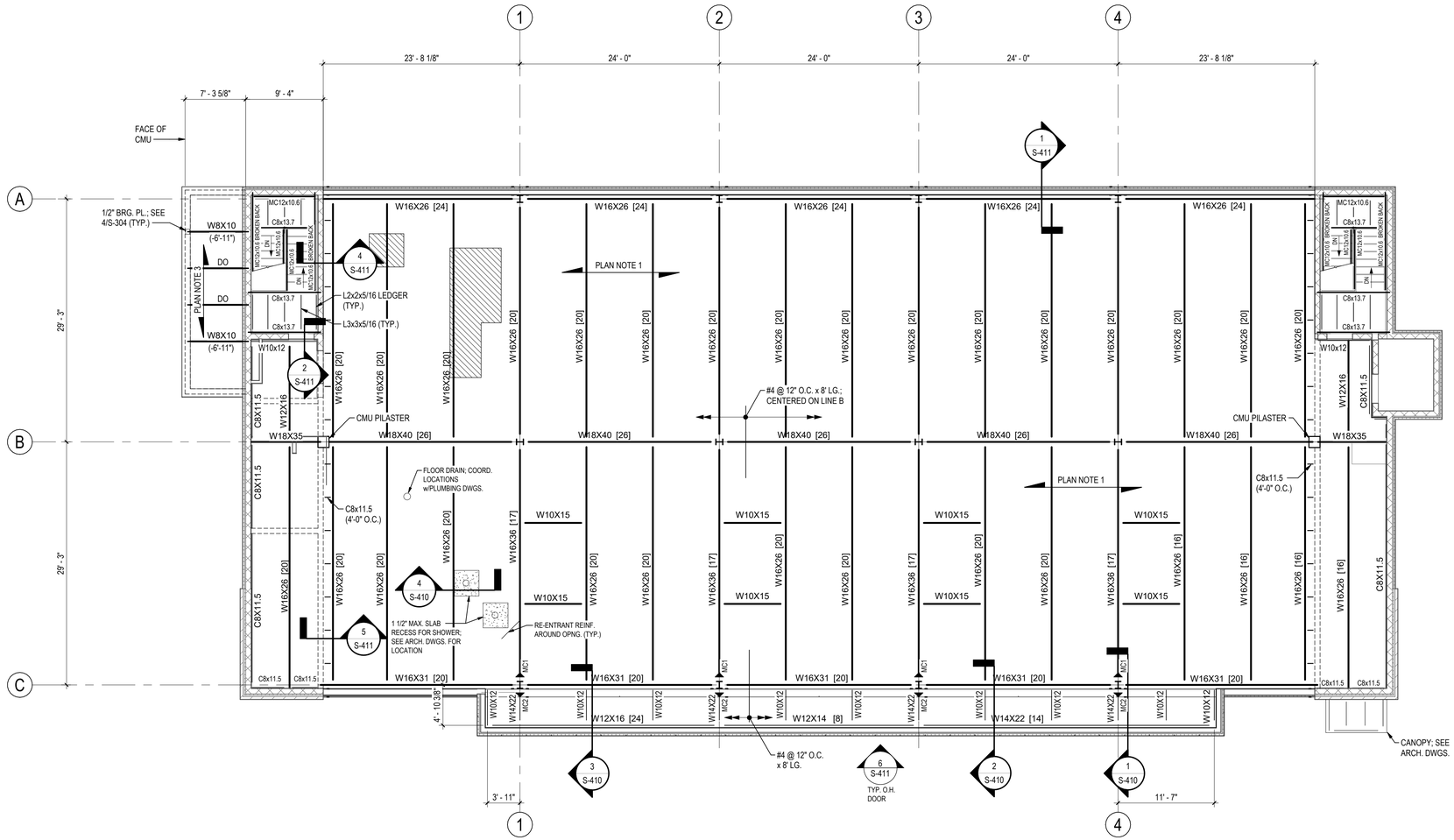

1 S-201 SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

2nd FLOOR FRAMING PLAN NOTES:

1. FLOOR CONSTRUCTION SHALL BE 1 1/2" x 20 GA. COMPOSITE METAL DECK (GALVANIZED) WITH 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED WITH 6x6-W2.9xW2.9 WWF. TOTAL SLAB THICKNESS = 5". TOP OF SLAB EL. +18'-8" ABOVE FINISHED FIRST FLOOR SLAB-ON-GRADE EL. 0'-0".
2. TOP OF STEEL ELEVATION IS +18'-3" ABOVE FINISHED SLAB-ON-GRADE EL. 0'-0". ELEVATIONS SHOWN THUS (+/- X'-X") ARE FROM EL. 18'-3". [X] DENOTES NUMBER OF 3/4" DIA. x 4.5" LONG SHEAR STUDS SPACED EVENLY ALONG BEAM.
3. LOW ROOF DECK SHALL BE 1 1/2" x 20 GA. GALVANIZED METAL ROOF DECK.
4. ▶ MCX INDICATES MOMENT CONNECTION. SEE NOTE 5 AND 6.
5. MC1 CONNECTION SHALL BE DESIGNED FOR EITHER:
   LRFD DEMANDS OF MOMENT 170 K-FT CONCURRENT WITH SHEAR OF 35 K.
   ASD DEMANDS OF MOMENT 119 K-FT CONCURRENT WITH SHEAR OF 25 K.
6. MC2 CONNECTION SHALL BE DESIGNED FOR EITHER:
   LRFD DEMANDS OF MOMENT 113 K-FT CONCURRENT WITH SHEAR OF 26 K.
   ASD DEMANDS OF MOMENT 80 K-FT CONCURRENT WITH SHEAR OF 18 K.
7. BEAMS ARE EVENLY SPACED BETWEEN COLUMN LINES UNLESS NOTED OTHERWISE.
8. ▨ INDICATES 4" THICK HOUSEKEEPING PAD U.N.O. COORDINATE WITH MEP DRAWINGS AND EQUIPMENT CHOSEN FOR SIZE AND LOCATIONS. SEE 3/S-411 FOR ADD'L INFO.
9. ▩ INDICATES OPENING IN FLOOR SLAB. SEE DRAWING S-401 FOR REQUIRED FRAMING AROUND OPENING.

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Issued	By	Appd	YYYY.MM.DD
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9-13-2024

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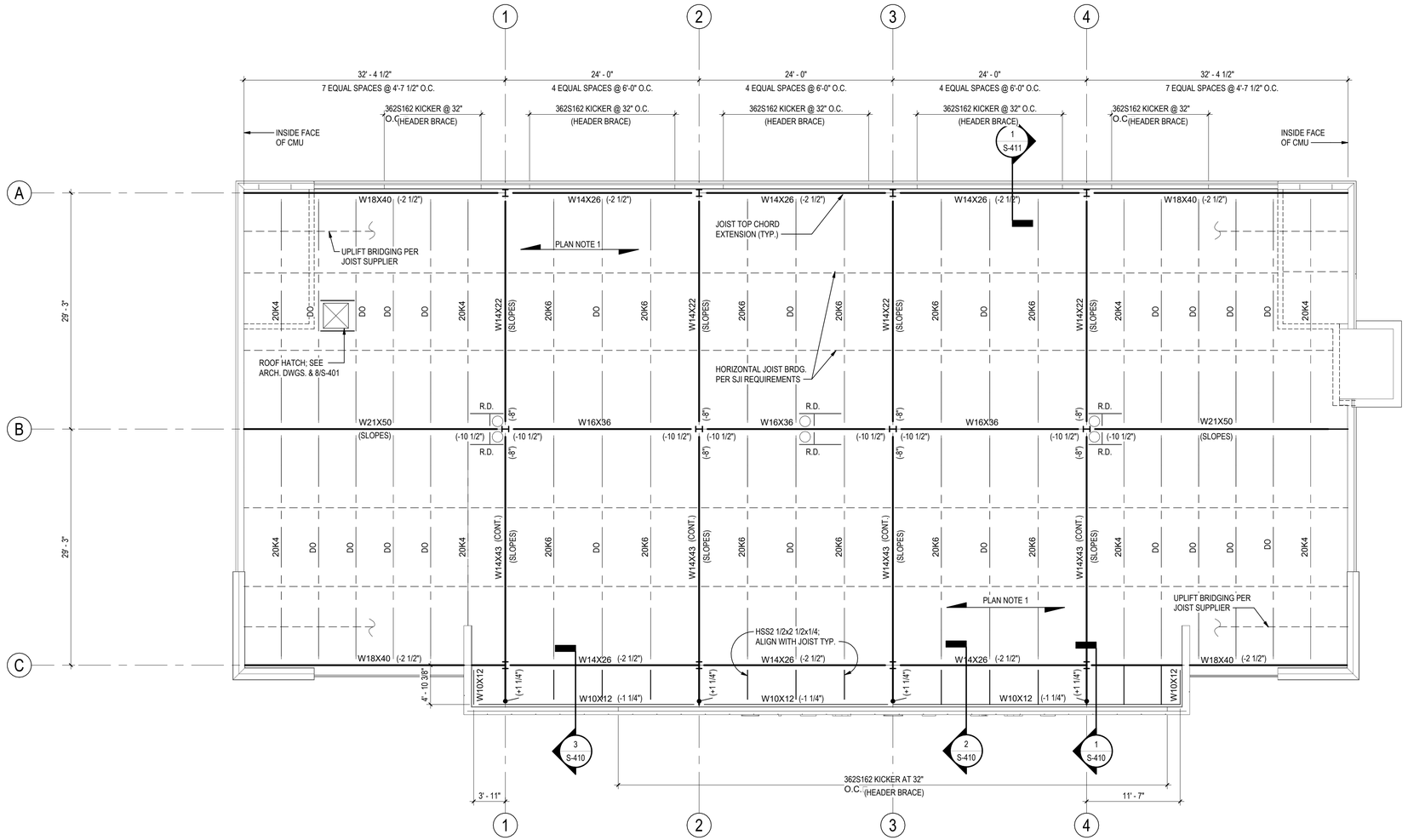
SECOND FLOOR FRAMING PLAN

Project No.
192311093

Scale
As indicated

Date
2024.07.23

Drawing No.
S-201



1 S-202 ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING NOTES:

1. ROOF CONSTRUCTION SHALL BE 1 1/2" x 20GA WIDE RIB GALVANIZED METAL ROOF DECK.
2. TOP OF ROOF STEEL IS AT ELEVATION +32'-0" ABOVE FINISHED SLAB-ON-GRADE EL. 0'-0". ELEVATIONS SHOWN THUS (±X'-X") IS FROM EL. 32'-0".
3. BEAMS ARE EVENLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE.
4. R.D. INDICATES ROOF DRAIN. SEE DRAWING S-401 FOR REQUIRED FRAMING.
6. ⊠ INDICATES OPENING IN ROOF. SEE 8/ S-401FOR REQUIRED FRAMING.

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	DJL	LO	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	DJL	LO	MJS	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

STATE OF NEW YORK · DAVID JOHN MEEKLEY · LICENSED · 093197 · PROFESSIONAL ENGINEER

9-13-2024

Client/Project Logo

1660 1904 CITY OF RYE NY 1942

Client/Project

City of Rye

Disbrow Park DPW

Title

ROOF FRAMING PLAN

Project No.
192311093

Scale
As indicated

Date
2024.07.23

Drawing No.
S-202

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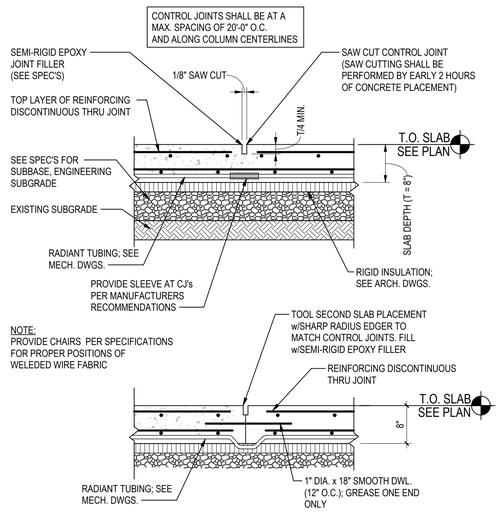
5/17/2024 4:42:12 PM

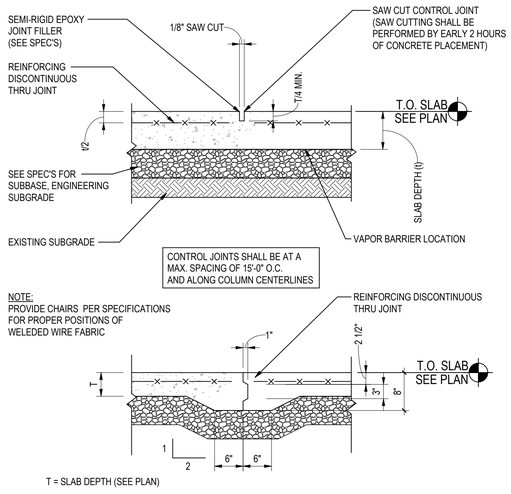
ORIGINAL SHEET - ANSI D



CONSTRUCTION JOINT

1 S-301 TYPICAL 8" SLAB ON GRADE CONTROL/CONSTRUCTION JOINT DETAIL

3/4" = 1'-0"



CONSTRUCTION JOINT

2 S-301 TYPICAL 5" SLAB ON GRADE CONTROL/CONSTRUCTION JOINT DETAIL

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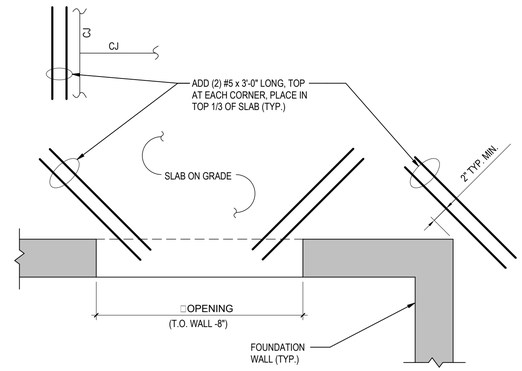
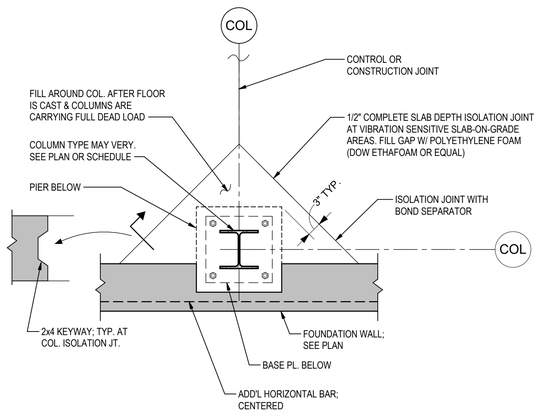


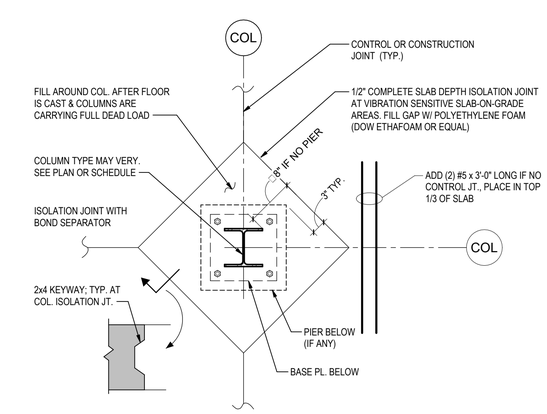
3 S-301 TYPICAL SLAB ON GRADE RE-ENTRANT CORNER DETAIL

3/4" = 1'-0"



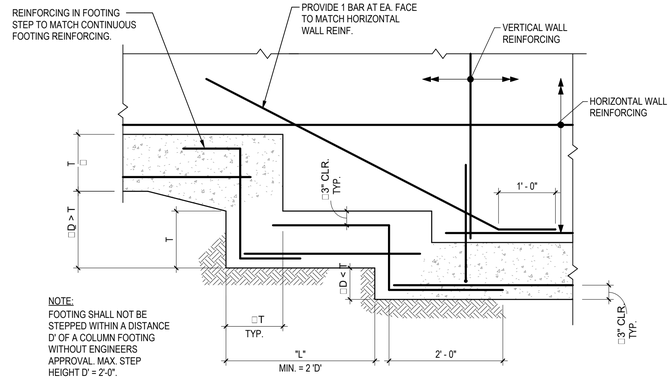
4 S-301 TYPICAL COLUMN ISOLATION JT. AT WALL

3/4" = 1'-0"



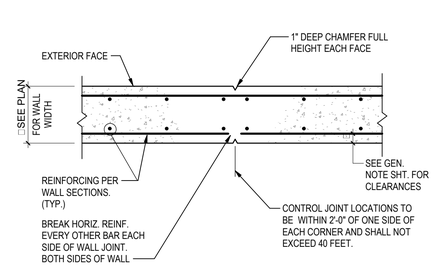
5 S-301 TYPICAL COLUMN ISOLATION JOINT

3/4" = 1'-0"



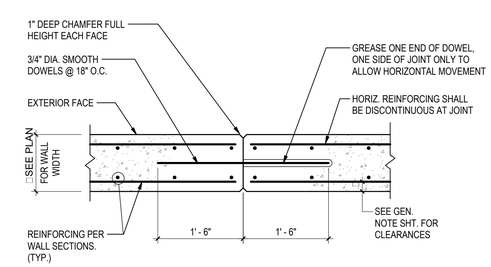
6 S-301 TYPICAL STEP FOOTING DETAIL

3/4" = 1'-0"



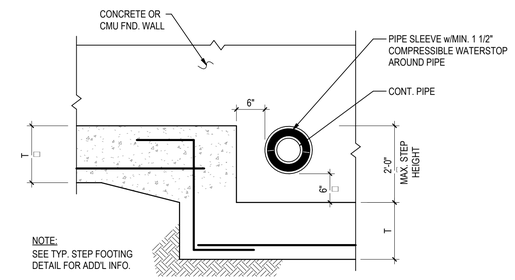
7 S-301 TYPICAL CONCRETE WALL CONTROL JOINT DETAIL

3/4" = 1'-0"



8 S-301 TYPICAL CONCRETE WALL CONSTRUCTION JOINT PLAN

3/4" = 1'-0"



9 S-301 TYPICAL STEP FOOTING AT PIPES

3/4" = 1'-0"

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	DJL	LO	MJS	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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9-13-2024

Client/Project Logo

CITY OF RYE NY 1942

Client/Project
City of Rye

Disbrow Park DPW

Title
TYPICAL CONCRETE DETAILS

Project No.
192311093

Scale
3/4" = 1'-0"

Date
2024.07.23

Drawing No.
S-301

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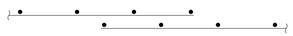
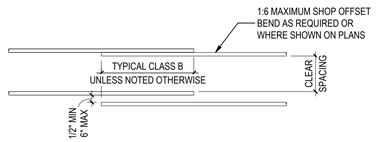
ORIGINAL SHEET - ANSI D

REINFORCING BAR TENSION LAP SCHEDULE					
		f'c = 4,000 psi			
		NORMAL WEIGHT CONCRETE			
		TOP BARS		OTHER BARS	
BAR SIZE	LAP CLASS	CASE 1	CASE 2	CASE 1	CASE 2
#3	A	1'-7"	2'-4"	1'-3"	1'-10"
	B	2'-1"	3'-1"	1'-7"	2'-4"
#4	A	2'-1"	3'-1"	1'-7"	2'-5"
	B	2'-9"	4'-1"	2'-1"	3'-1"
#5	A	2'-7"	3'-11"	2'-0"	3'-0"
	B	3'-5"	5'-1"	2'-7"	3'-11"
#6	A	3'-1"	4'-8"	2'-5"	3'-7"
	B	4'-1"	6'-1"	3'-1"	4'-8"
#7	A	4'-6"	6'-9"	3'-6"	5'-3"
	B	5'-11"	8'-10"	4'-6"	6'-9"
#8	A	5'-2"	7'-9"	4'-0"	6'-0"
	B	6'-9"	10'-2"	5'-2"	7'-9"
#9	A	5'-10"	8'-9"	4'-6"	6'-9"
	B	7'-7"	11'-5"	5'-10"	8'-9"
#10	A	6'-7"	9'-10"	5'-1"	7'-7"
	B	8'-6"	12'-9"	6'-7"	9'-10"
#11	A	7'-3"	10'-11"	5'-7"	8'-5"
	B	9'-6"	14'-2"	7'-3"	10'-11"



WELDED WIRE

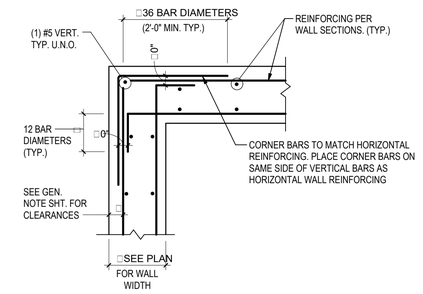


TYPICAL LAP

NOTES:
1. CASES 1 AND 2, WHICH DEPEND ON CLEAR CONCRETE COVER AND THE CENTER-TO-CENTER SPACING OF THE BARS, ARE DEFINED AS:
   CASE 1: COVER AT LEAST 1db AND c-c SPACING AT LEAST 2db
   CASE 2: COVER LESS THAN 1db OR c-c SPACING LESS THAN 2db
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
3. OTHER BARS INCLUDE VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE CAST BELOW HORIZONATL BARS.
4. BAR SPLICES NOT COVERED BY THIS SCHEDULE ARE SPECIFICALLY DETAILED AND DIMENSIONED ON PLANS.
5. ALL SPLICES SHALL BE LCASS "B" UNLESS NOTED OTHERWISE ON PLANS.
6. FOR DEVELOPMENT LENGTH, Ld, USE CLASS A LAP SPLICE LENGTH.
7. FOR SHEAR WALL VERTICAL REINFORCING, MULTIPLY THE LENGTHS IN THE SCHEDULE BY 1.25.

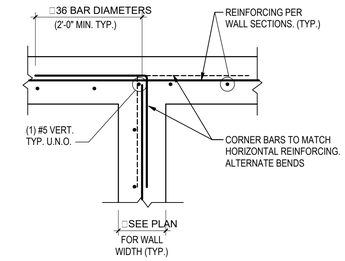
1 S-302 DEVELOPMENT AND SPLICES OF CONCRETE REINFORCING BARS

3/4" = 1'-0"



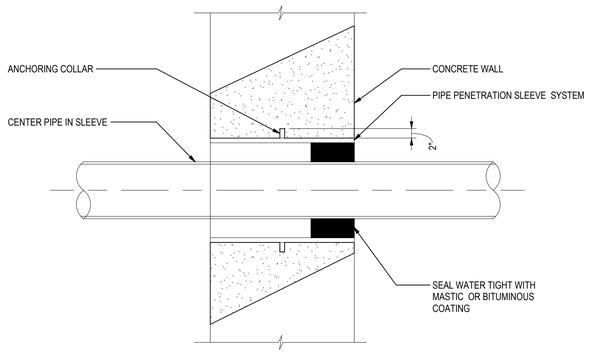
2 S-302 TYPICAL CONCRETE WALL CORNER DETAIL

3/4" = 1'-0"



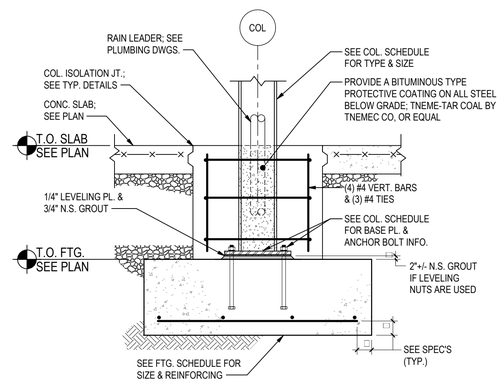
3 S-302 TYPICAL CONCRETE WALL INTERSECTION DETAIL

3/4" = 1'-0"



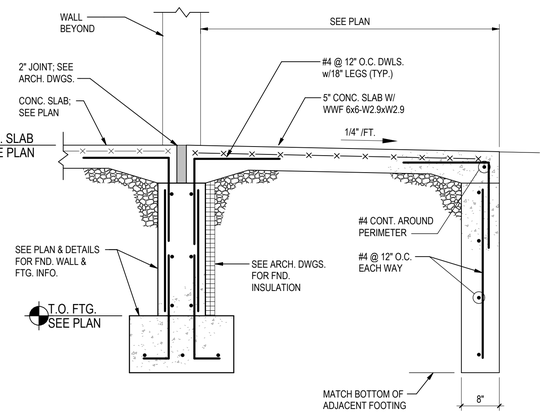
4 S-302 TYPICAL PIPE SLEEVE BELOW GRADE

3/4" = 1'-0"



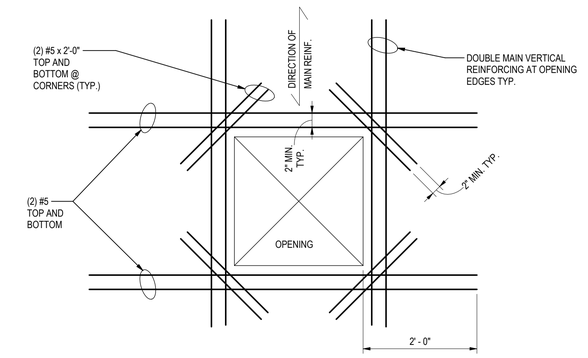
5 S-302 TYPICAL INTERIOR COLUMN FOOTING

3/4" = 1'-0"



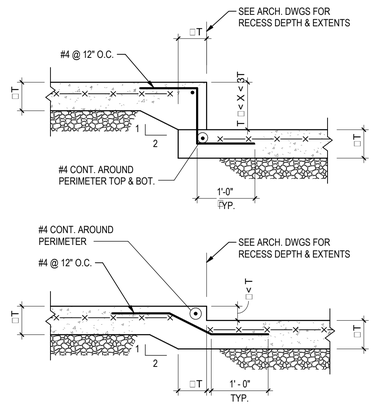
6 S-302 TYPICAL EXTERIOR DOOR PAD

3/4" = 1'-0"



7 S-302 TYPICAL WALL/ SLAB OPENING DETAIL

3/4" = 1'-0"



8 S-302 TYPICAL RECESSED SLAB ON GRADE DETAIL

3/4" = 1'-0"

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ISSUE FOR BID	DJL	LO	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	DJL Dwn.	LO Dsgn.	MJS Chkd. 2024.07.23 YYYY.MM.DD

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9-13-2024

Client/Project Logo

CITY OF RYE NY 1942 · 1660 · 1904

Client/Project
City of Rye

Disbrow Park DPW

Title
TYPICAL CONCRETE DETAILS

Project No.	Scale
192311093	3/4" = 1'-0"
Date	Drawing No.
2024.07.23	S-302

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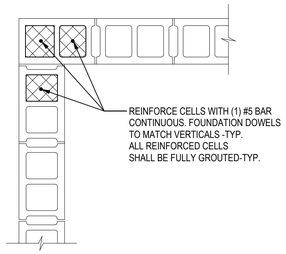
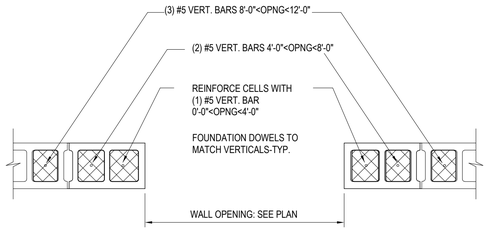
ORIGINAL SHEET - ANSI D



NOTES:
1. FULLY GROUT ALL REINFORCED CELLS -TYPICAL.
2. MATCH VERTICAL REINFORCING SIZE AND QUANTITY WHERE BARS LARGER THAN #5 ARE SPECIFIED ON PLANS AND DETAILS.
3. DETAIL APPLIES AT BOTH INSIDE AND OUTSIDE CORNERS.

1 S-303 TYPICAL MASONRY REINFORCING DETAIL AT CORNER

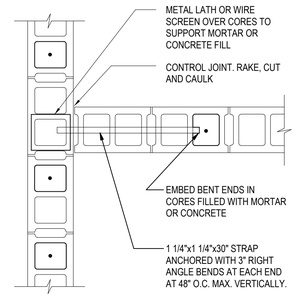
3/4" = 1'-0"



NOTES:
1. FULLY GROUT ALL REINFORCED CELLS -TYPICAL.
2. MATCH VERTICAL REINFORCING SIZE AND QUANTITY WHERE BARS LARGER THAN #5 ARE SPECIFIED ON PLANS AND DETAILS.

2 S-303 TYPICAL MASONRY DETAIL AT JAMBS AND OPENINGS

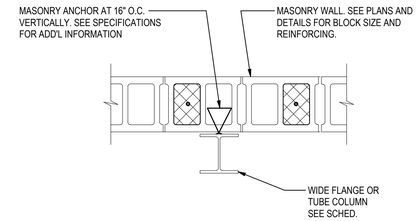
3/4" = 1'-0"



NOTE:
SEE PLANS AND DETAILS FOR VERTICAL REINFORCING.

3 S-303 TYPICAL DETAIL AT LOAD BEARING MASONRY WALL SECTIONS

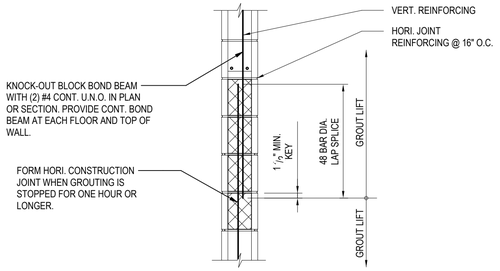
3/4" = 1'-0"



NOTE:
MASONRY ANCHORS ARE REQUIRED AT ALL LOCATIONS WHERE MASONRY PASSES BY OR ABUTS STEEL COLUMNS.

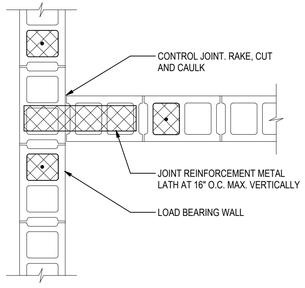
4 S-303 TYPICAL MASONRY WALL TO STEEL COLUMN ANCHOR

3/4" = 1'-0"



5 S-303 TYPICAL MASONRY WALL VERTICAL REINFORCING DETAIL

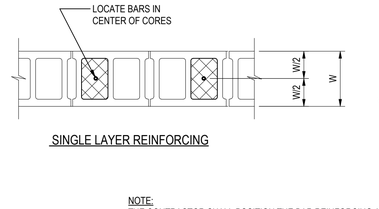
3/4" = 1'-0"



NOTE:
SEE PLANS AND DETAILS FOR VERTICAL REINFORCING.

6 S-303 TYPICAL DETAIL AT NON-LOAD BEARING MASONRY INTERSECTION

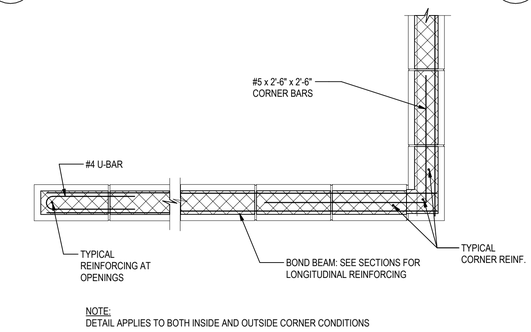
3/4" = 1'-0"



NOTE:
THE CONTRACTOR SHALL POSITION THE BAR REINFORCING AS SHOWN USING "HECKMAN" NO. 374 STEEL-WICH REBAR POSITIONERS, OR APPROVED EQUAL.

7 S-303 TYPICAL REINFORCEMENT LOCATION DETAIL

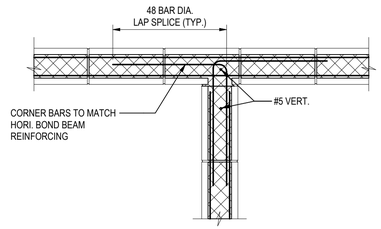
3/4" = 1'-0"



NOTE:
DETAIL APPLIES TO BOTH INSIDE AND OUTSIDE CORNER CONDITIONS

8 S-303 TYPICAL MASONRY BOND BEAM CORNER DETAIL

3/4" = 1'-0"



9 S-303 TYPICAL MASONRY BOND BEAM T-INTERSECTION DETAIL

3/4" = 1'-0"

REINFORCED CMU WALL SCHEDULE

(NON - LOADBEARING MASONRY PARTITION WALLS ONLY)

MAX. UNBRACED HEIGHT	MASONRY WALL THICKNESS			
	6 INCH WALLS	8 INCH WALLS	10 INCH WALLS	12 INCH WALLS
UP TO 12'-0"	#4 BARS @ 48" O.C.	REINF. NOT REQUIRED	REINF. NOT REQUIRED	REINF. NOT REQUIRED
12'-0" TO 15'-0"	N/A	REINF. NOT REQUIRED	REINF. NOT REQUIRED	REINF. NOT REQUIRED
15'-0" TO 18'-0"	N/A	#4 BARS @ 48" O.C.	REINF. NOT REQUIRED	REINF. NOT REQUIRED
18'-0" TO 22'-0"	N/A	#4 BARS @ 32" O.C.	#5 BARS @ 48" O.C.	#5 BARS @ 64" O.C.
22'-0" TO 26'-0"	N/A	#4 BARS @ 24" O.C.	#5 BARS @ 32" O.C.	#5 BARS @ 48" O.C.
26'-0" TO 35'-0"	N/A	#4 BARS @ 16" O.C.	#5 BARS @ 24" O.C.	#5 BARS @ 24" O.C.
35'-0" TO 50'-0"	N/A	N/A	N/A	#5 BARS @ 24" O.C.

NOTES:
1. ALL REINFORCED CELLS SHALL BE GROUTED SOLID.
2. REFER TO TYPICAL MASONRY DETAILS FOR ADDITIONAL INFORMATION.
3. NA INDICATES MASONRY WALL NOT ALLOWED TO SPAN HEIGHT INDICATED.
4. HORIZONTAL JOINT REINFORCING SHALL BE INSTALLED IN ALL PARTITION WALLS.
5. REINFORCING FOR THE INTERIOR PARTITION WALLS SHALL BE AS INDICATED IN SCHEDULE UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF WALL BRACING REQUIREMENTS FOR ALL MASONRY WALLS THAT DO NOT EXTEND TO ROOF OR FLOOR STRUCTURE.
7. PARTITION WALLS THAT EXTEND TO ROOF DECK AND ARE PARALLEL TO ROOF SLOPE SHALL BE REINFORCED PER THEIR MAXIMUM UNBRACED HEIGHT ALONG ENTIRE WALL.

10 S-303 TYPICAL INTERIOR MASONRY PARTITION WALL REINFORCEMENT

3/4" = 1'-0"

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Permit/Seal

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9-13-2024

Client/Project Logo

1660 · 1904 · CITY OF RYE NY 1942

Client/Project
City of Rye

Disbrow Park DPW

Title
TYPICAL MASONRY DETAILS

Project No.	Scale
192311093	3/4" = 1'-0"
Date	Drawing No.
2024.07.23	S-303

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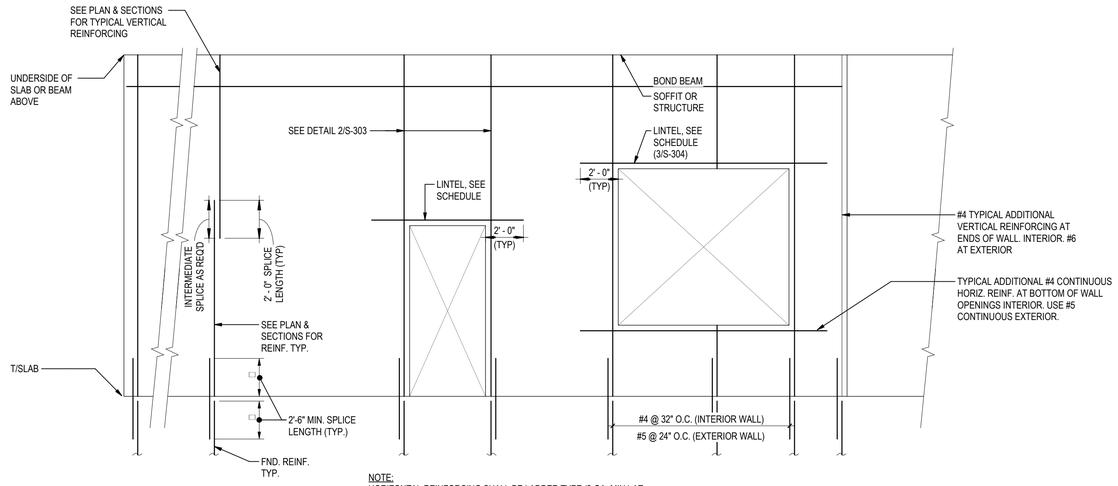
8/1/2024 4:42:15 PM

ORIGINAL SHEET - ANSI D



NOTE:
HORIZONTAL REINFORCING SHALL BE LADDER TYPE (9 GA. MIN.) AT 16" O.C. OR (2) #3 BARS IN CMU BOND BEAM AT 6'-0" O.C. MAX.

1 S-304 CMU WALL REINFORCEMENT ELEVATION

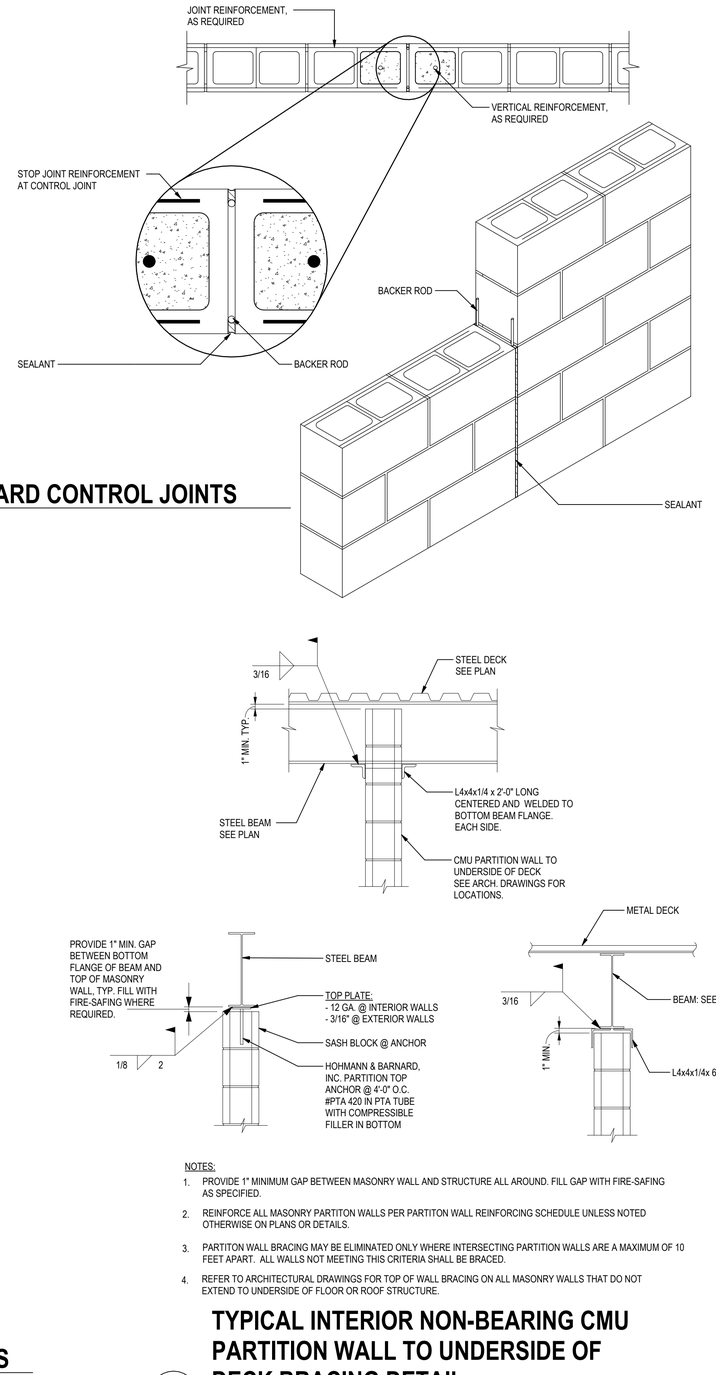
1/4" = 1'-0"

STANDARD CONTROL JOINTS

WHEN THE TRANSFER OF OUT-OF-PLANE LOADS BETWEEN TWO PANELS SEPARATED BY A CONTROL JOINT IS NOT CRITICAL, OR WHEN FIRE RESISTANCE IS NOT A CONTROLLING DESIGN FEATURE, MOST CONTROL JOINTS ARE CONSTRUCTED SIMPLY TO PROVIDE LONGITUDINAL MOVEMENT AND STRESS RELIEF AT SPECIFIED LOCATIONS.

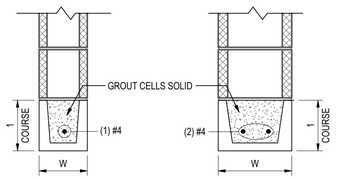
TO PROVIDE A JOINT THAT IS SEALED AGAINST THE PASSAGE OF AIR, WATER, AND SOUND, CAULKING OR OTHER APPROPRIATE SEALANT IS USED. HERE, AND WITH ALL SIMILAR CONTROL JOINTS, THE BACKER ROD IS INSTALLED TO PROVIDE A UNIFORM FOUNDATION FOR WHICH TO APPLY THE SEALANT.

WHEN HORIZONTAL REINFORCEMENT IS INCORPORATED FOR THE SOLE PURPOSE OF CONTROLLING OF SHRINKAGE CRACKING, IT SHOULD BE DISCONTINUED AT THE CONTROL JOINT LOCATION. HOWEVER, WHEN SERVING AS PRIMARY STRUCTURAL REINFORCEMENT, SUCH AS BOND BEAMS LOCATED AT FLOOR AND ROOF LEVELS, THE REINFORCEMENT SHOULD BE CONTINUOUS THROUGH THE CONTROL JOINT.

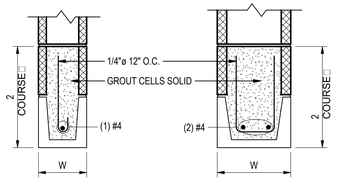


2 S-304 STANDARD CONTROL JOINTS

1" = 1'-0"



FOR CLEAR OPENING LESS THAN 5'-0" WIDE



FOR CLEAR OPENING 5'-0" WIDE TO 8'-0" MAX.

NOTES:
1. PROVIDE BLOCK LINTELS FOR ALL OPNGS IN INTERIOR BLOCK PARTITIONS, AND EXTERIOR WALLS FOR WHICH STEEL LINTELS ARE NO SHOWN. REFER TO ARCH. DWGS. FOR SIZE AND LOCATION OF OPNGS. PROVIDE 8" MIN. BEARING AT EACH END
2. W AS PER TABLE (FIRST DIMENSION).

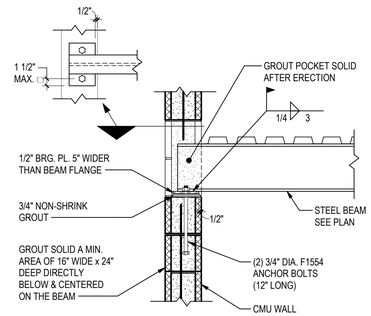
TYPE OF LOADING *	LINTEL SECTION NOMINAL SIZE (IN.)	REQUIRED REINFORCING CLEAR SPAN							
		3'-4"	4'-0"	4'-8"	5'-4"	6'-0"	6'-8"	7'-4"	8'-0"
WALL LOADS	6x8	1-#3	1-#4	1-#4	2-#4	2-#5			
	6x16					1-#4	1-#4	1-#4	1-#4
FLOOR & ROOF LOADS	6x16	1-#4	1-#4	2-#3	1-#5	2-#4	2-#4	2-#5	2-#5
WALL LOADS	8x8	1-#3	2-#3	2-#3	2-#4	2-#4	2-#5	2-#6	
	8x16							2-#5	2-#5
FLOOR & ROOF LOADS	8x8	2-#4							
	8x16	2-#3	2-#3	2-#3	2-#4	2-#4	2-#4	2-#5	2-#5

(*) INCLUDES WEIGHT OF LINTEL

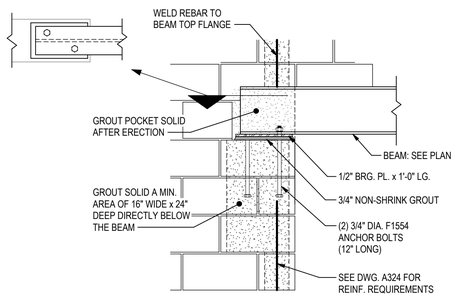
NOTES:
1. WALL LOADS ASSUMED 300lbs. PER LINEAR FOOT.
2. FLOOR & ROOF LOADS INCLUDING WALL LOAD ASSUMED 1000lbs. PER LINEAR FOOT.
3. 8" LINTELS ASSUMED TO WEIGHT 50#/FT.
4. 16" LINTELS ASSUMED TO WEIGHT 100#/FT.

3 S-304 TYP. REINFORCED BLOCK LINTEL DETAILS

1" = 1'-0"



BEAM BEARING DETAIL PERPENDICULAR TO WALL



BEAM BEARING DETAIL PARALLEL TO WALL

4 S-304 TYP. BEAM BEARING ON CMU WALL DETAILS

3/4" = 1'-0"

NOTES:
1. PROVIDE 1" MINIMUM GAP BETWEEN MASONRY WALL AND STRUCTURE ALL AROUND. FILL GAP WITH FIRE-SAFING AS SPECIFIED.
2. REINFORCE ALL MASONRY PARTITON WALLS PER PARTITON WALL REINFORCING SCHEDULE UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.
3. PARTITON WALL BRACING MAY BE ELIMINATED ONLY WHERE INTERSECTING PARTITION WALLS ARE A MAXIMUM OF 10 FEET APART. ALL WALLS NOT MEETING THIS CRITERIA SHALL BE BRACED.
4. REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF WALL BRACING ON ALL MASONRY WALLS THAT DO NOT EXTEND TO UNDERSIDE OF FLOOR OR ROOF STRUCTURE.

5 S-304 TYPICAL INTERIOR NON-BEARING CMU PARTITION WALL TO UNDERSIDE OF DECK BRACING DETAIL

3/4" = 1'-0"

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Notes

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ISSUE FOR BID	DJL	LO	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	DJL	LO	MJS	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

STATE OF NEW YORK · DAVID JOHN MBEKELU · LICENSED PROFESSIONAL ENGINEER · 093197

9-13-2024

Client/Project Logo

16160 19104 CITY OF RYE NY 1942

Client/Project
City of Rye

Disbrow Park DPW

Title
TYPICAL MASONRY DETAILS

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2024.07.23	S-304

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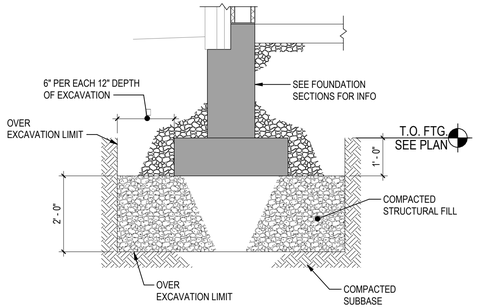
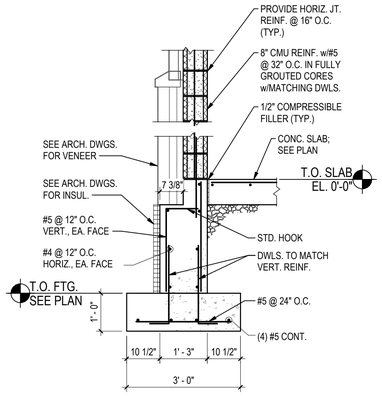
ORIGINAL SHEET - ANSI D

NOTES:

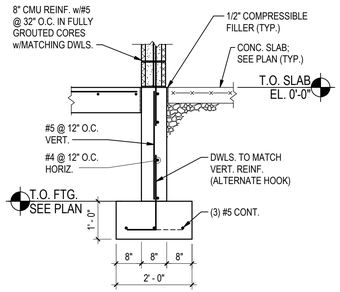
1. DETAIL APPLIES TO ALL BUILDING FOUNDATIONS.
2. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFO.



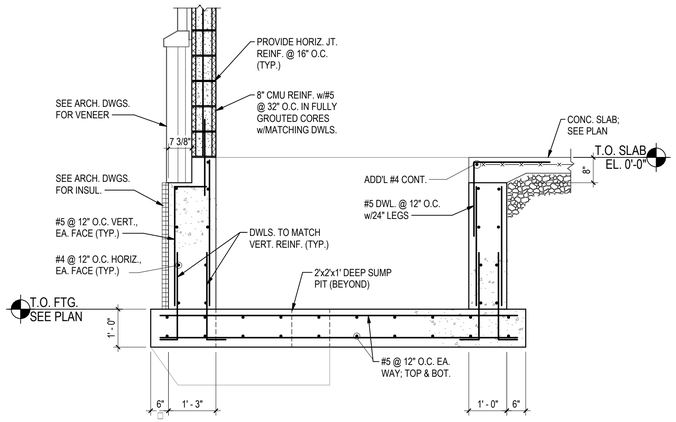
1 S-310 TYP. FOOTING OVER-EXCAVATION
1/2" = 1'-0"



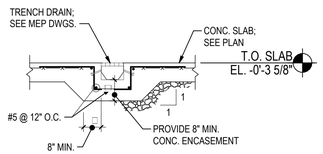
2 S-310 SECTION
1/2" = 1'-0"



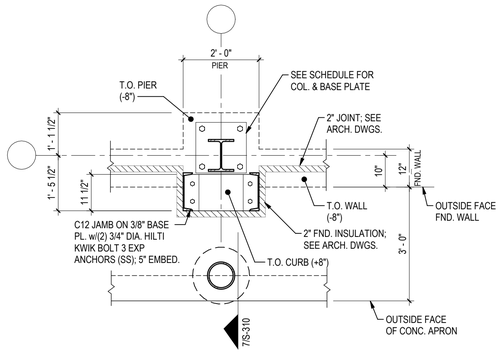
3 S-310 SECTION
1/2" = 1'-0"



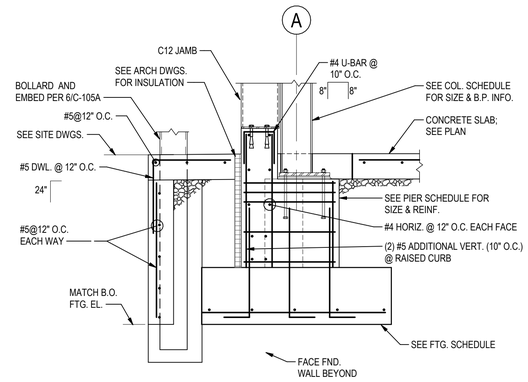
4 S-310 SECTION
1/2" = 1'-0"



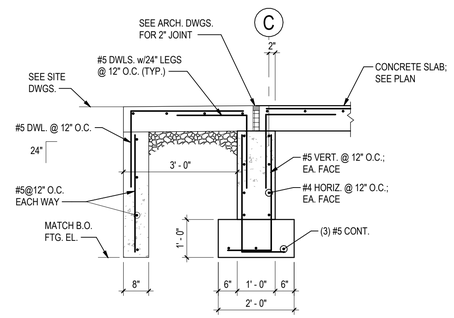
5 S-310 SECTION
1/2" = 1'-0"



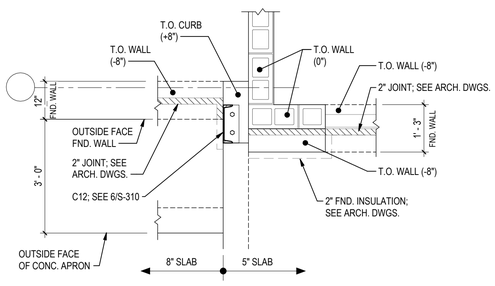
6 S-310 DETAIL
1/2" = 1'-0"



7 S-310 SECTION
1/2" = 1'-0"



8 S-310 SECTION
1/2" = 1'-0"



9 S-310 DETAIL
1/2" = 1'-0"

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9/13/2024 4:42:23 PM

ORIGINAL SHEET - ANSI D

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	DJL	LO	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	DJL	LO	MJS	2024.07.23
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STATE OF NEW YORK · DAVID JOHN MBENELU · 093197 · LICENSED PROFESSIONAL ENGINEER

9-13-2024

Client/Project Logo

1660 1904 CITY OF RYE NY 1942

Client/Project
City of Rye

Disbrow Park DPW

Title
FOUNDATION SECTIONS & DETAILS

Project No.
192311093

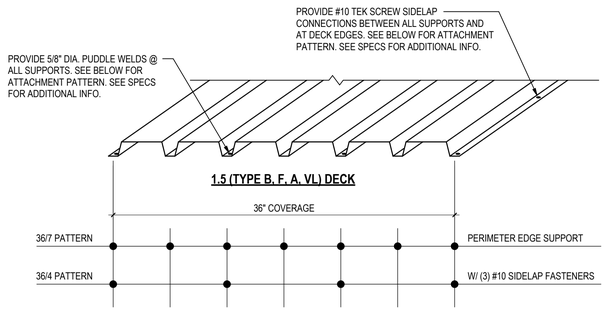
Scale
1/2" = 1'-0"

Date
2024.07.23

Drawing No.
S-310

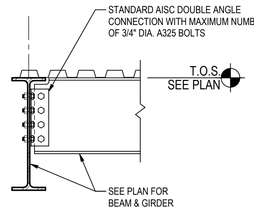
1 S-401 TYPICAL DECK FASTENER LAYOUT

3/4" = 1'-0"



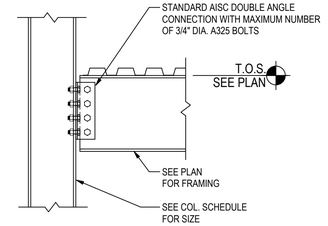
2 S-401 TYPICAL BEAM TO GIRDER CONNECTION

3/4" = 1'-0"



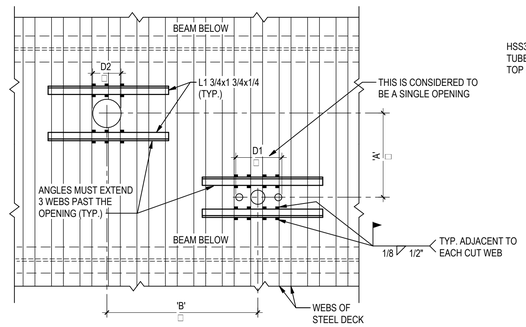
3 S-401 TYPICAL BEAM TO COLUMN CONNECTION

3/4" = 1'-0"



NOTES:

1. FOR BEAMS ALONG GRIDLINES A AND C, DESIGN CONNECTION FOR LRFD AXIAL LOAD CONCURRENT WITH SHEAR DEMAND:
   - 17 KIPS (ROOF)
   - 26 KIPS (SECOND FLOOR)



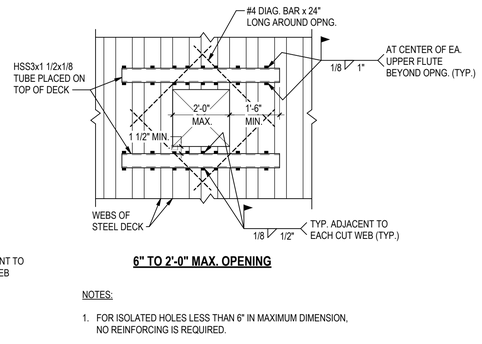
NOTES:

1. ANGLES SHALL BE PLACED ON TOP OF DECK.
2. IF DIMENSION 'A' IS GREATER THAN 4D1, 4D2 OR 32" WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION 'B'.
3. IF DIMENSION 'B' IS GREATER THAN 4D1, 4D2 OR 32" WHICHEVER IS LARGER, THEN THERE IS NO RESTRICTION ON DIMENSION 'A'.
4. IF DIMENSION 'A' AND 'B' ARE LESS THAN 4D1, 4D2 OR 32" WHICHEVER IS LARGER, THEN THE OPENING GROUP WILL BE CONSIDERED AS A SINGLE HOLE, AND MUST BE REINFORCED AS REQUIRED FOR THE LARGER OPENING.

PRIOR TO CONCRETE POUR:

SMALL OPENINGS SHOULD BE BLOCKED OUT AND DECK LEFT INTACT. HOLES LESS THAN 6" IN DIAMETER AND CUTTING NO MORE THAN ONE WEB NEEDS NO REINFORCING. AFTER THE CONCRETE HAS CURED, THE BLOCKOUT CAN BE REMOVED AND DECK IN THE AREA OF THE HOLE REMOVED.

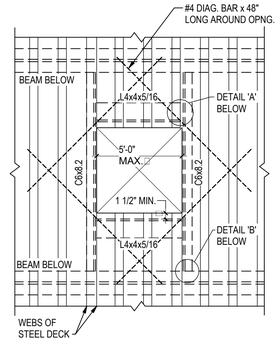
HOLES CUTTING NO MORE THAN:
3 ADJACENT WEBS FOR 6" AND 8" MODULE DECK
2 ADJACENT WEBS FOR 12" MODULE DECK



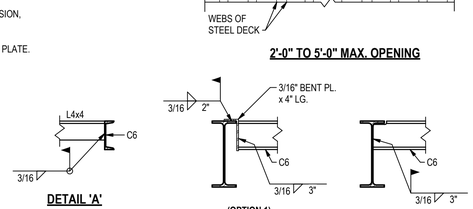
6" TO 2'-0" MAX. OPENING

NOTES:

1. FOR ISOLATED HOLES LESS THAN 6" IN MAXIMUM DIMENSION, NO REINFORCING IS REQUIRED.
2. ALL SLAB EDGES AT OPENINGS SHALL HAVE A CLOSURE PLATE.

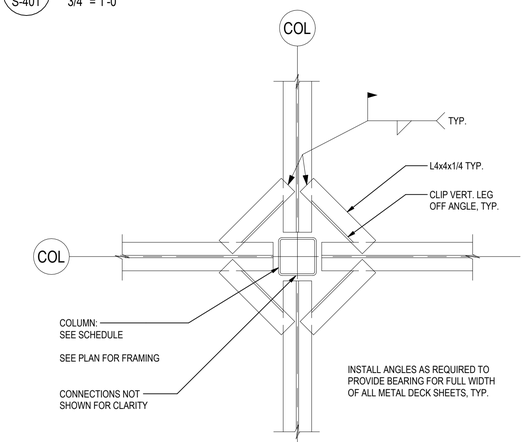


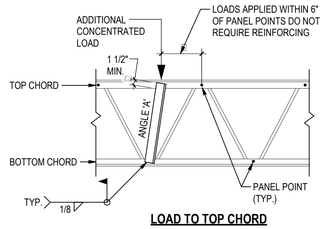
2'-0" TO 5'-0" MAX. OPENING



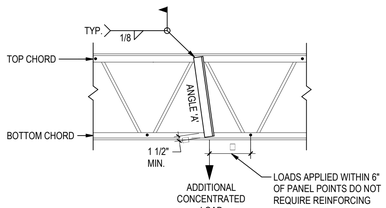
4 S-401 TYPICAL OPENINGS IN METAL DECK WITH CONCRETE FILL

3/4" = 1'-0"





LOAD TO TOP CHORD



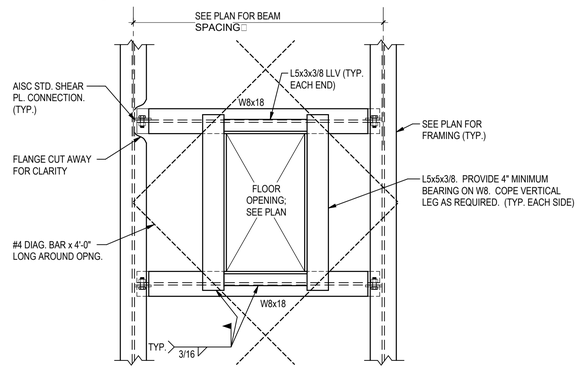
LOAD TO BOTTOM CHORD

NOTES:

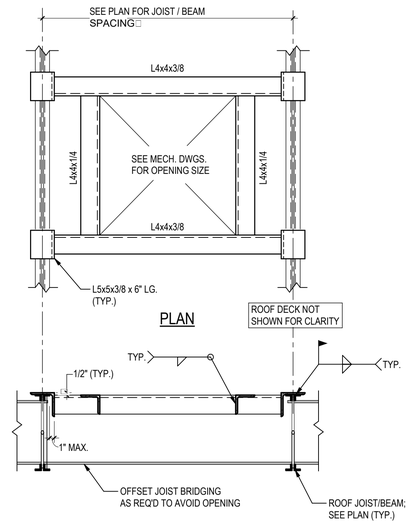
1. REINFORCING ANGLE 'A' SHALL BE L2x2x3/16 ON EACH SIDE OF 'K' SERIES JOIST. USE L3x3x1/4 ON EACH SIDE OF 'LH' SERIES JOISTS.
2. JOIST MANUFACTURER TO SHOP REINFORCE AT ALL CONCENTRATED LOADS WHOSE EXACT LOCATION IS SHOWN ON DRAWINGS.

5 S-401 TYPICAL FLOOR SLAB OPENING DETAIL

3/4" = 1'-0"



NOTE:
DETAIL APPLIES AT ALL FLOOR OPENINGS UNLESS OTHERWISE SPECIFIED ON PLANS OR DETAILS.



SECTION

NOTE:
THIS DETAIL APPLIES TO ALL ROOF OPENINGS GREATER THAN 12"x12" IN PLAN DIMENSION. LOCATIONS AND DIMENSIONS TO BE COORDINATED WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS.

6 S-401 TYPICAL SUPPLEMENTARY DECK SUPPORT AT COLUMNS

3/4" = 1'-0"

7 S-401 TYPICAL JOIST REINFORCING DETAIL

3/4" = 1'-0"

8 S-401 TYPICAL ROOF OPENING DETAIL

3/4" = 1'-0"

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9-13-2024

Client/Project Logo

CITY OF RYE NY 1942 · 1660 · 1904

Client/Project
City of Rye

Disbrow Park DPW

Title
TYPICAL STEEL DETAILS

Project No.
192311093

Scale
3/4" = 1'-0"

Date
2024.07.23

Drawing No.
S-401

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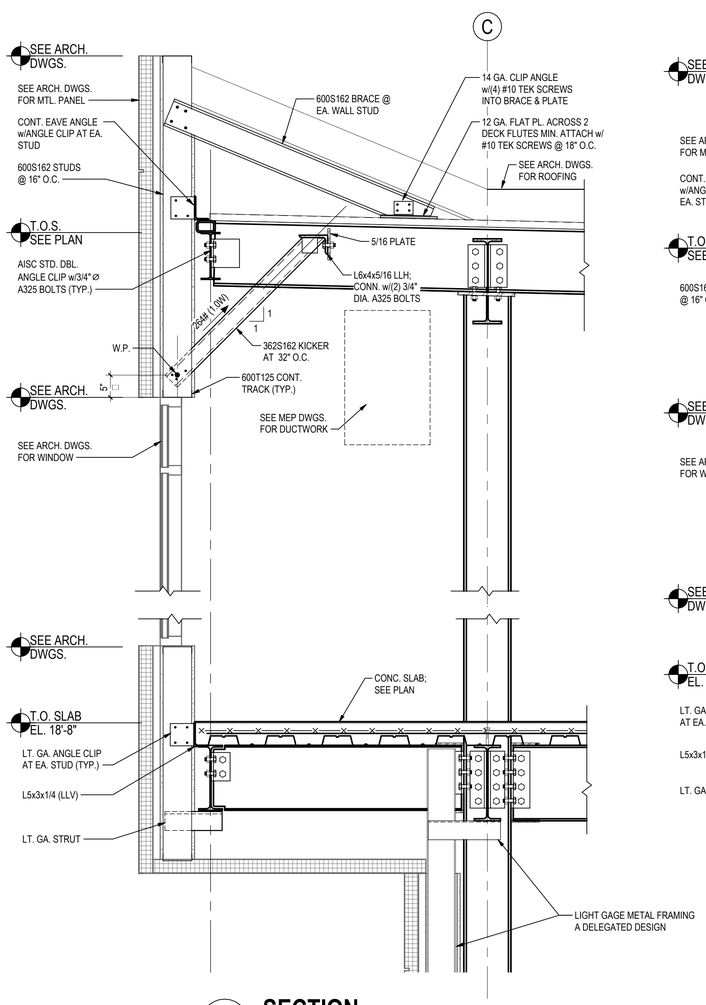
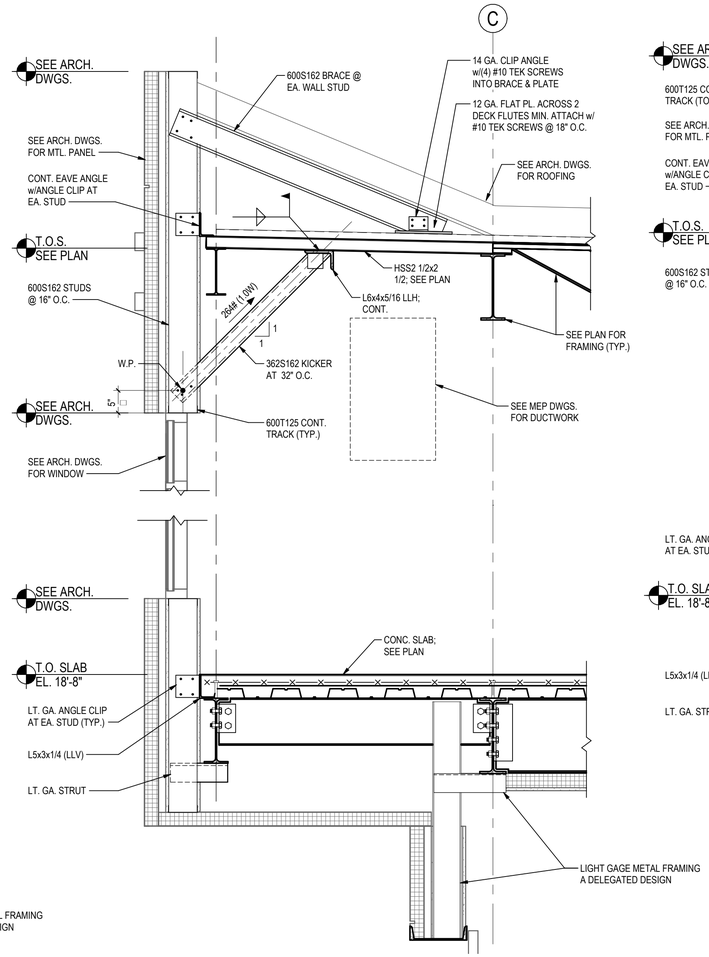
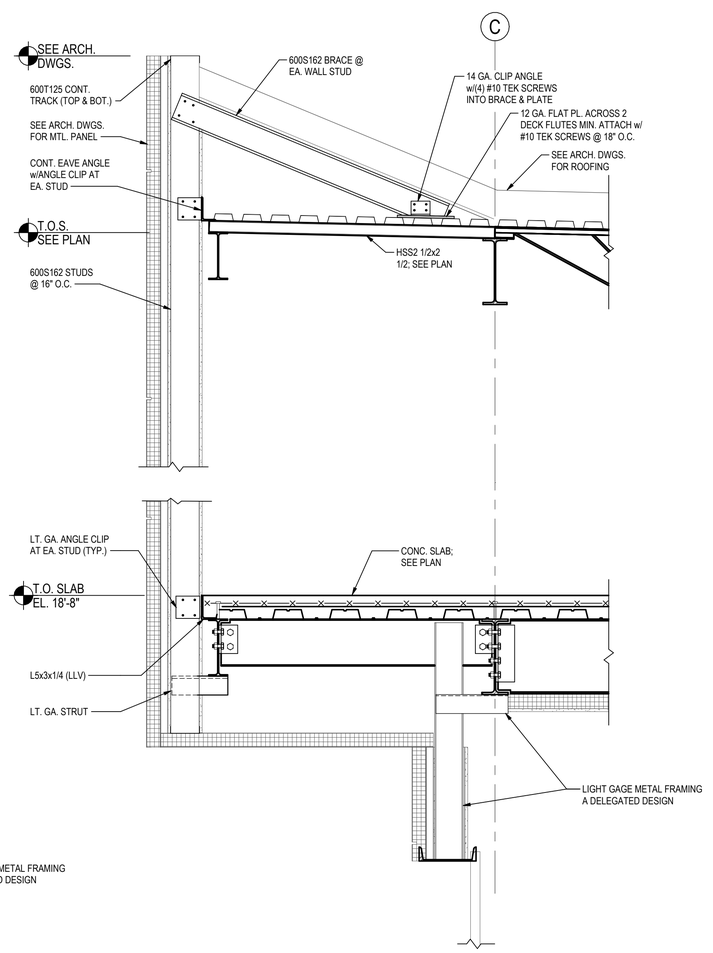
ORIGINAL SHEET - ANSI D



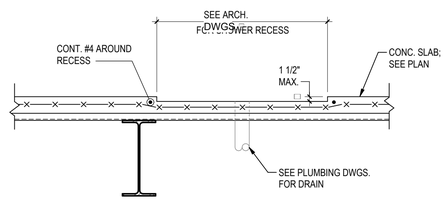
1 S-410 **SECTION**
3/4" = 1'-0"



2 S-410 **SECTION**
3/4" = 1'-0"



3 S-410 **SECTION**
3/4" = 1'-0"



4 S-410 **SECTION**
3/4" = 1'-0"

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4/11/2024 4:42:32 PM

ORIGINAL SHEET - ANSI D

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Permit/Seal

9-13-2024

Client/Project Logo

CITY OF RYE NY 1942

Client/Project
City of Rye

Disbrow Park DPW

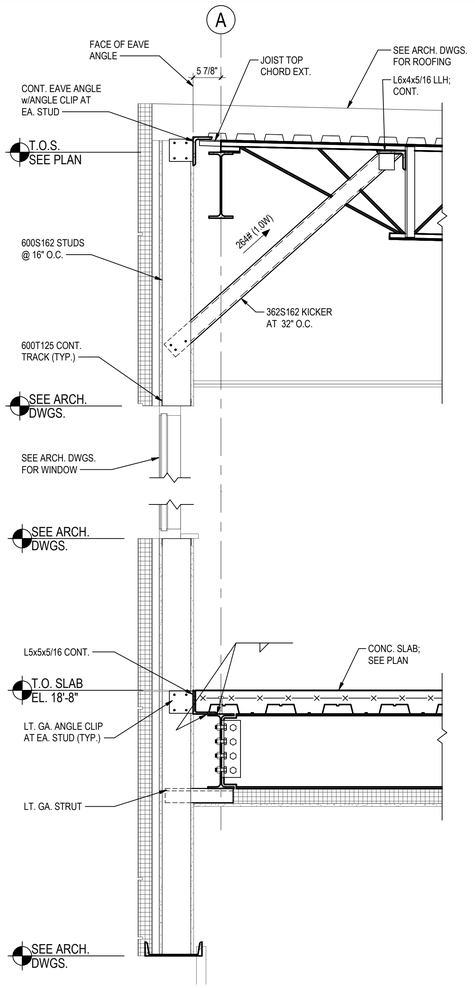
Title
FRAMING SECTIONS AND DETAILS

Project No.
192311093

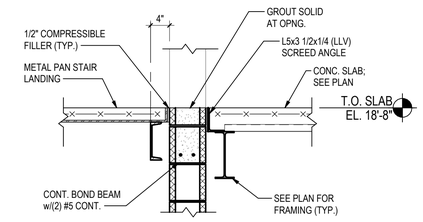
Scale
3/4" = 1'-0"

Date
2024.07.23

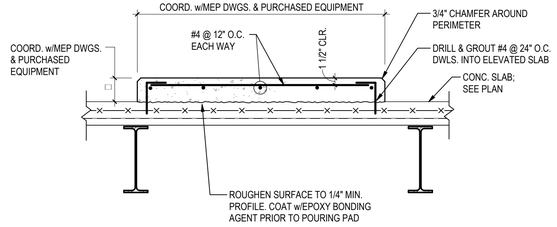
Drawing No.
S-410



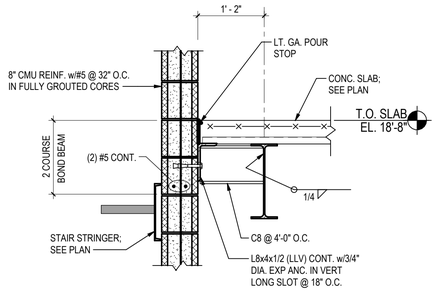
1 S-411 SECTION
3/4" = 1'-0"



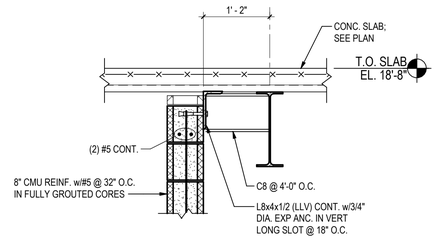
2 S-411 SECTION
3/4" = 1'-0"



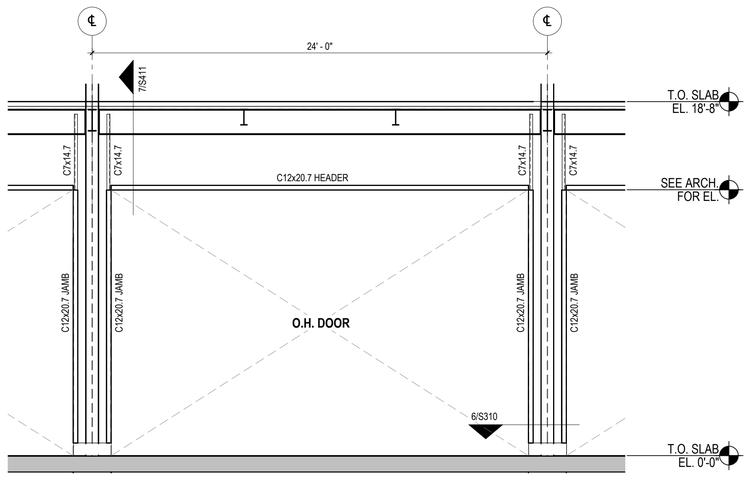
3 S-411 TYPICAL HOUSEKEEPING PAD DETAIL
3/4" = 1'-0"



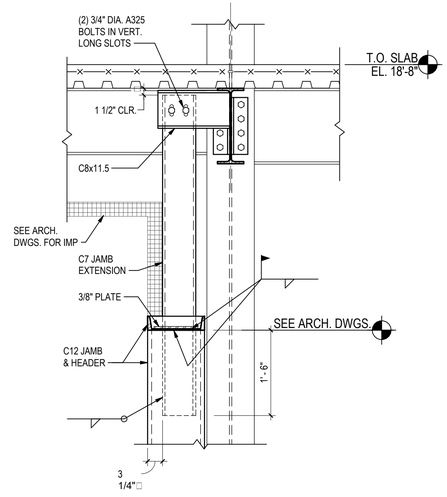
4 S-411 SECTION
3/4" = 1'-0"



5 S-411 SECTION
3/4" = 1'-0"



6 S-411 TYPICAL OH DOOR FRAMING ELEVATION
1/4" = 1'-0"



7 S-411 SECTION
3/4" = 1'-0"

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	DJL	LO	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	DJL	LO	MJS	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

9-13-2024

Client/Project Logo

Client/Project
City of Rye

Disbrow Park DPW

Title
FRAMING SECTIONS AND DETAILS

Project No.
192311093

Scale
As indicated

Date
2024.07.23

Drawing No.
S-411

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ORIGINAL SHEET - ANSI D

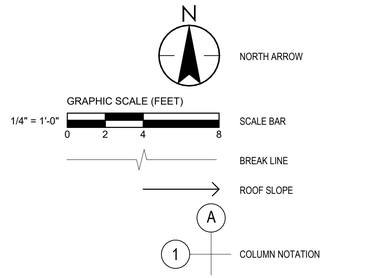
ABBREVIATIONS

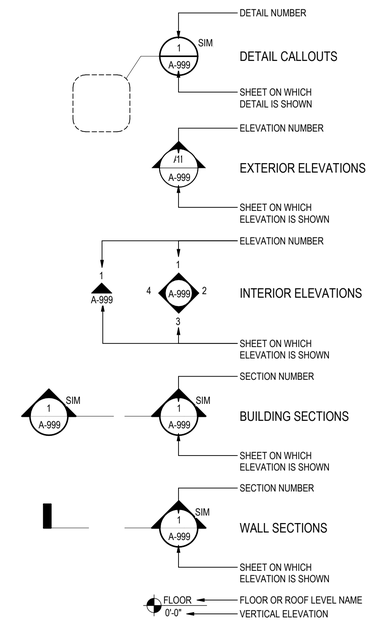
A -		**L -**	
ACT	ACOUSTICAL CEILING TILE	LAB	LABORATORY
ADD'L	ADDITIONAL	LAM	LAMINATE
ADJ	ADJUSTABLE	LKR	LOCKER
AFF	ABOVE FINISH FLOOR	LT	LIGHT
ALUM	ALUMINUM		
APPROX	APPROXIMATE	**M -**	
ARCH	ARCHITECTURAL	MAX	MAXIMUM
AV	AUDIO VISUAL	MB	MACHINE BOLT
		MBH	MOP AND BROOM HOLDER
B -		MECH	MECHANICAL
BD	BOARD	MTL	METAL
BLDG	BUILDING	MFR	MANUFACTURER
BLKG	BLOCKING	MIN	MINIMUM
BM	BEAM	MISC	MISCELLANEOUS
BO	BOTTOM OF	MTD	MOUNTED
BTWN	BETWEEN	MUL	MULLION
C -		**N -**	
CB	COOLER BOX	N	NORTH
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	(N)	NEW
		NIC	NOT IN CONTRACT
CG	CORNER GUARD	NO	NUMBER
CH	COAT HOOK	NOM	NOMINAL
CIP	CAST-IN-PLACE	NR	NOT RATED
CJ	CONTROL JOINT	NTS	NOT TO SCALE
CL	CENTER LINE		
CLF	CHAIN LINK FENCE	**O -**	
CLG	CEILING	OA	OVERALL
CLKG	CAULKING	OC	ON CENTER
CLN RM	CLEAN ROOM	OCC	OCCUPANCY
CLR	CLEAR	OD	OUTSIDE DIAMETER (DIM.)
COL	COLUMN	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CONC	CONCRETE		
CONT	CONTINUOUS	OFF	OFFICE
COOR	COORDINATE	OFOI	OWNER FURNISHED OWNER INSTALLED
CORR	CORRIDOR		
CPT	CARPET	OH	OPPOSITE HAND
CT	CERAMIC TILE	OPNG	OPENING
CTR	CENTER	OPP	OPPOSITE
D -		**P -**	
DBL	DOUBLE	PEN	PENETRATION(S)
DET	DETAIL	PL	PLATE
DIA	DIAMETER	PLAM	PLASTIC LAMINATE
DISP	DISPENSER	PLYWD	PLYWOOD
DN	DOWN	PNL	PANEL
DO	DOOR OPENING	PNT	PAINT
DR	DOOR	PR	PAIR
DWG	DRAWING	PT	POINT
		PTD	PAPER TOWEL DISPENSER
E -		PTN	PARTITION
E	EAST		
(E)	EXISTING	**Q-R -**	
EA	EACH	RAD	RADIUS
EEW	EMERGENCY EYE WASH	RB	RUBBER BASE
EJ	EXPANSION JOINT	REF	REFERENCE
EL	ELEVATION	REQ	REQUIRED
ELEC	ELECTRICAL CLOSET	RESIL	RESILIENT
EMER	EMERGENCY	RGTR	REGISTER
ENCL	ENCLOSURE	RH	ROBE HOOK
EOS	EDGE OF SLAB	RM	ROOM
EPX	EPOXY	RO	ROUGH OPENING
EQ	EQUAL		
EQPT	EQUIPMENT	**S -**	
ETR	EXISTING TO REMAIN	S	SOUTH
EW/SS	EYE WASH SAFETY SHOWER	SCD	SEE CIVIL DRAWINGS
EXT	EXTERIOR	SCHED	SCHEDULE
		SECT	SECTION
F -		SED	SEE ELECTRICAL DRAWINGS
(F)	FUTURE	SHT	SHEET
FA	FIRE ALARM	SIM	SIMILAR
FD	FLOOR DRAIN	SK	SINK
FEC	FIRE EXTINGUISHER CABINET	SMD	SEE MECHANICAL DRAWINGS
FAFI	FACTORY FINISH	SMS	SHEET METAL SCREW
FIN	FINISH	SPD	SEE PLUMBING DRAWINGS
FL	FLOOR	SPEC	SPECIFICATIONS
FOC	FACE OF CONCRETE	SQ	SQUARE
FOF	FACE OF FINISH	SSD	SEE STRUCTURAL DRAWINGS
FOS	FACE OF STUD	SSK	SERVICE SINK
FSK	FLOOR SINK	SST	STAINLESS STEEL
FT	FOOT OR FEET	ST	STORIES
		STD	STANDARD
G -		STL	STEEL
GA	GAUGE	STOR	STORAGE
GALV	GALVANIZED	STRL	STRUCTURAL
GB	GRAB BAR	SUSP	SUSPENDED
GC	GENERAL CONTRACTOR		
GEN	GENERAL	**T -**	
GL	GLASS	THK	THICK
GR	GRADE	TO	TOP OF
GWB	GYPSUM WALL BOARD	TYP	TYPICAL
H -			
HCA	HANDICAPPED ACCESSIBLE	**U-V -**	
HT	HEIGHT	UON	UNLESS OTHERWISE NOTED
HM	HOLLOW METAL	UTIL	UTILITY
HORIZ	HORIZONTAL	VCT	VINYL COMPOSITE TILE
HR	HOUR	VFVI	VENDOR FURNISHED VENDOR INSTALLED
I-J-K -		VERT	VERTICAL
INSUL	INSULATION	VIF	VERIFY IN FIELD
INT	INTERIOR		
		W-X-Y-Z -	
JAN	JANITOR	W	WEST
JT	JOINT	W/	WITH
		W/O	WITHOUT
		WO	WHERE OCCURS

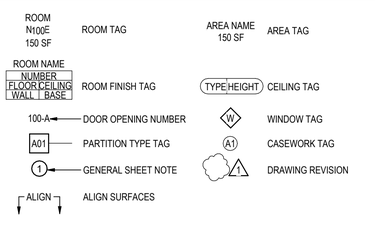
GENERAL NOTES

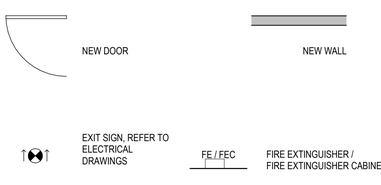
1. DESIGN, CONSTRUCTION AND SAFETY SHALL CONFORM TO THE 2020 BUILDING CODE OF NEW YORK STATE, INCLUDING (BUT NOT LIMITED TO) ANSI A117.1 - 2009, OSHA, AND ANY OTHER CODES ADOPTED BY THE JURISDICTION IN WHICH THIS PROJECT IS BEING CONSTRUCTED.
2. THIS CONTRACT REQUIRES COMPLETE, FINISHED WORKABLE PROJECT IN THE AREAS INDICATED BY THE CONTRACT DOCUMENTS, AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE, REGARDLESS OF WHETHER OR NOT ALL WORK OR EACH ITEM IS SPECIFICALLY INDICATED ON ANY OTHER PORTION OF THE DRAWINGS AND/OR NOTES.
3. WHERE MATERIALS REFERENCED ON DRAWINGS, OR NECESSARY TO COMPLETE THE WORK OF THIS CONTRACT ARE NOT SPECIFIED HEREIN, PROVIDE BEST QUALITY MATERIALS. WHERE MATERIALS ARE INTENDED TO MATCH EXISTING, PROVIDE CLOSEST POSSIBLE MATCH, SUBJECT TO OWNER'S APPROVAL. ALL ITEMS AND WORK ON DRAWINGS ARE NEW, UNLESS INDICATED EXISTING. ALL WORK WHICH HAS BEEN DAMAGED SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. WHERE ITEMS CAN NOT BE REPAIRED TO A "NEW CONDITION", OR WHERE THE STRUCTURAL INTEGRITY HAS BEEN AFFECTED, ITEMS SHALL BE REPLACED AT NO COST TO THE OWNER.
4. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL SITE AND FIELD CONDITIONS PRIOR TO COMMENCING WORK. IF THERE ARE ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS, NOTIFY THE CONSTRUCTION MANAGER AND ARCHITECT /ENGINEER AND REQUEST CLARIFICATION.
5. CONTRACTOR SHALL OBTAIN FROM OWNER ALL REQUIREMENTS FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT INCLUDING ROUGHING DIAGRAMS, INSTALLATION INSTRUCTIONS, ELECTRICAL SCHEMATICS, TEMPLATES, LAYOUTS AND DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER, WELL COORDINATED INSTALLATION. PRIOR TO ROUGH-IN, CONFER WITH OWNER EXACT LOCATION OF ALL ITEMS.
6. ALL CONTRACTORS ARE TO COORDINATE THE WORK OF EACH OTHER, SO THAT THE WORK AND SCHEDULE ARE NOT IMPEDED. SCHEDULE WORK PROGRESS THROUGHOUT THE ENTIRE PROJECT TO PREVENT CONFLICTS AND INTERFERENCES. OBTAIN ALL NECESSARY INFORMATION SUCH AS SIZES, LOCATIONS, TEMPLATES, LAYOUT, DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER AND WELL COORDINATED INSTALLATION. PRIOR TO INSTALLATION OF ITEMS, VERIFY AND CONFIRM WITH EACH CONTRACTOR EXACT LOCATION OF ALL ITEMS.
7. REMOVE DEBRIS AND OTHER MATERIALS RESULTING FROM DEMOLITION FROM SITE AS DEMOLITION WORK PROGRESSES. REMOVE RUBBISH FROM JOB SITE REGULARLY AND LEAVE PREMISES AND WORK IN CLEAN CONDITION. RUBBISH SHALL NOT BE ALLOWED TO ACCUMULATE AND SHALL BE APPROPRIATELY DISPOSED OF.
8. PRIOR TO COMPLETION, CLEAN PREMISES FOR OCCUPANCY BY OWNER. CLEANING SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   A. REMOVAL OF GREASE, MASTIC, ADHESIVE, DUST, DIRT, STAINS, LABELS AND OTHER FOREIGN MATERIALS FROM EXPOSED SURFACES.
   B. THE EXTERNAL SURFACE OF ALL EQUIPMENT SHALL BE CLEANED AT THE COMPLETION OF THE WORK TO REMOVE ALL CONCRETE, DUST AND DIRT, WELDING AND CUTTING SPLATTER, ETC.
   C. PRIOR TO FINAL COMPLETION, OR OWNER OCCUPANCY, CONTRACTOR SHALL CONDUCT AN INSPECTION OF EXPOSED SURFACES, AND ALL WORK AREAS, TO VERIFY THAT THE ENTIRE WORK IS CLEAN.
9. ALL DIMENSIONS ARE FROM FACE OF MASONRY, OR CENTER LINE OF INTERIOR PARTITION, UNLESS NOTED OTHERWISE.
10. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL SUBCONTRACTORS, AND WITH THOSE UNDER SEPARATE CONTRACT WITH THE OWNER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR PROPER INSTALLATION OF MATERIAL AND EQUIPMENT.
12. CONTRACTOR TO COORDINATE WITH OWNER TO ENSURE SECURITY AND TO COMMUNICATE UTILITY SHUTDOWNS.
13. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTAIN ALL DEBRIS WITHIN THE CONSTRUCTION AREA AND TO MINIMIZE NOISE RELATED TO CONSTRUCTION OPERATIONS.
14. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR JOB CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF PERSONS AND PROPERTY.

SYMBOLS









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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	JK	THC	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	CVR	THC	AJP	2020.12.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
ARCHITECTURAL LEGEND, SYMBOLS, ABBREVIATIONS, & GENERAL NOTES

Project No.	Scale
192311093	12" = 1'-0"
Date	Drawing No.
2020.12.11	A-001

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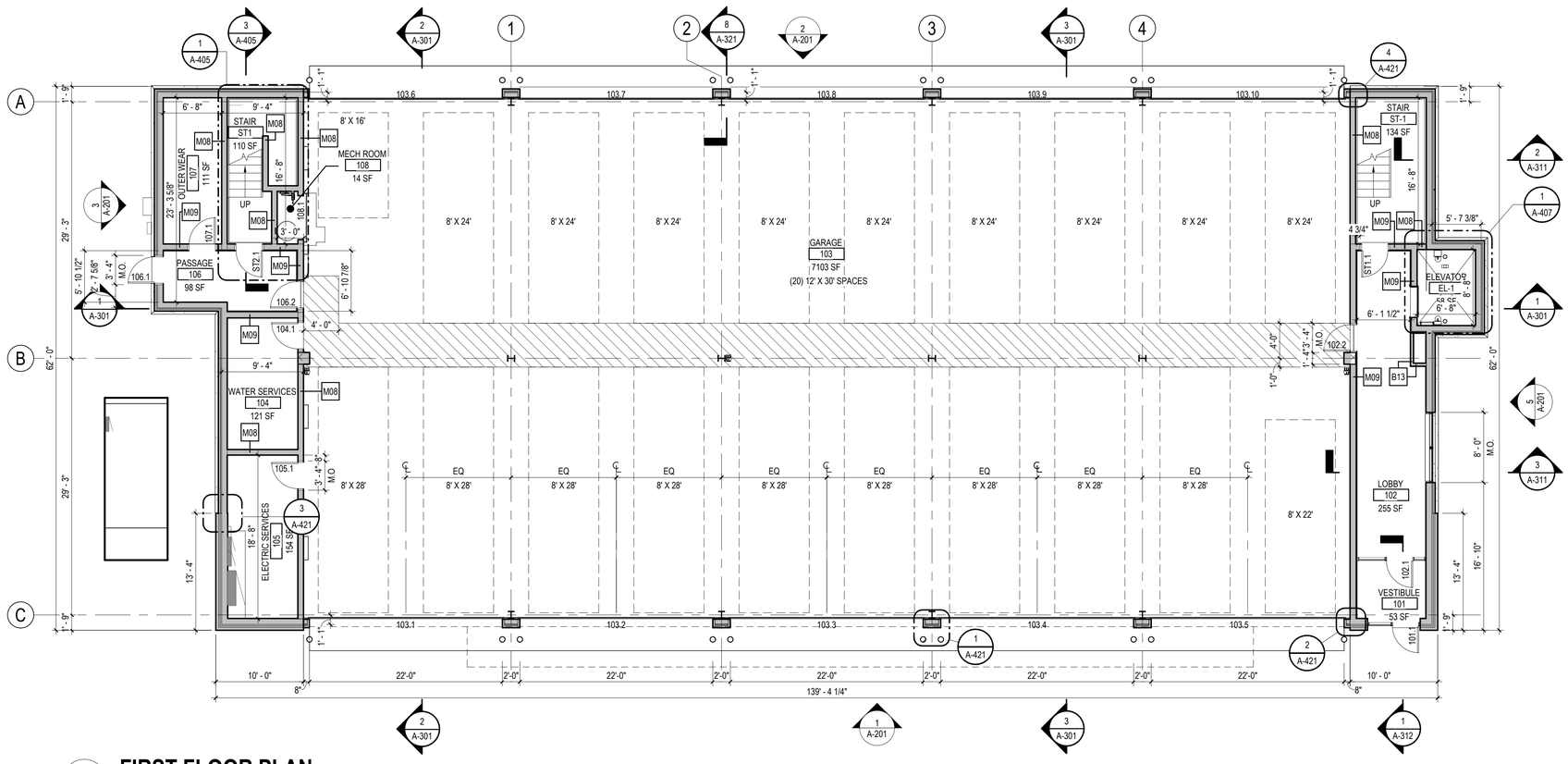
ORIGINAL SHEET - ANSI D



1 A-101 **FIRST FLOOR PLAN**

1/8" = 1'-0"

GENERAL NOTES

1. LOCATE ROUGH OPENINGS FOR DOORS 4" FROM INSIDE FACE OF INTERSECTING WALL UNLESS OTHERWISE NOTED.
2. PROVIDE ACCESS IN PARTITIONS AT ALL LOCATIONS REQUIRING ACCESS. PANELS SHALL MAINTAIN FIRE RATING.
3. PROVIDE WOOD BLOCKING OR 18 GAUGE METAL STRAPPING BEHIND G.W.B. WHERE REQUIRED TO SUPPORT FIXTURES OR EQUIPMENT PROVIDED IN THE CONTRACT OR BY OTHERS.
4. ALL COLUMN ENCLOSURES TO BE PARTITION TYPE "B13" UNLESS NOTED OTHERWISE
5. ALL PARTITIONS TO BE "" UNLESS OTHERWISE NOTED.

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Issued	By	Appd	YYYY.MM.DD
	CVR	THC	AJP	2020.12.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

16160 19104 CITY OF RYE NY 1942

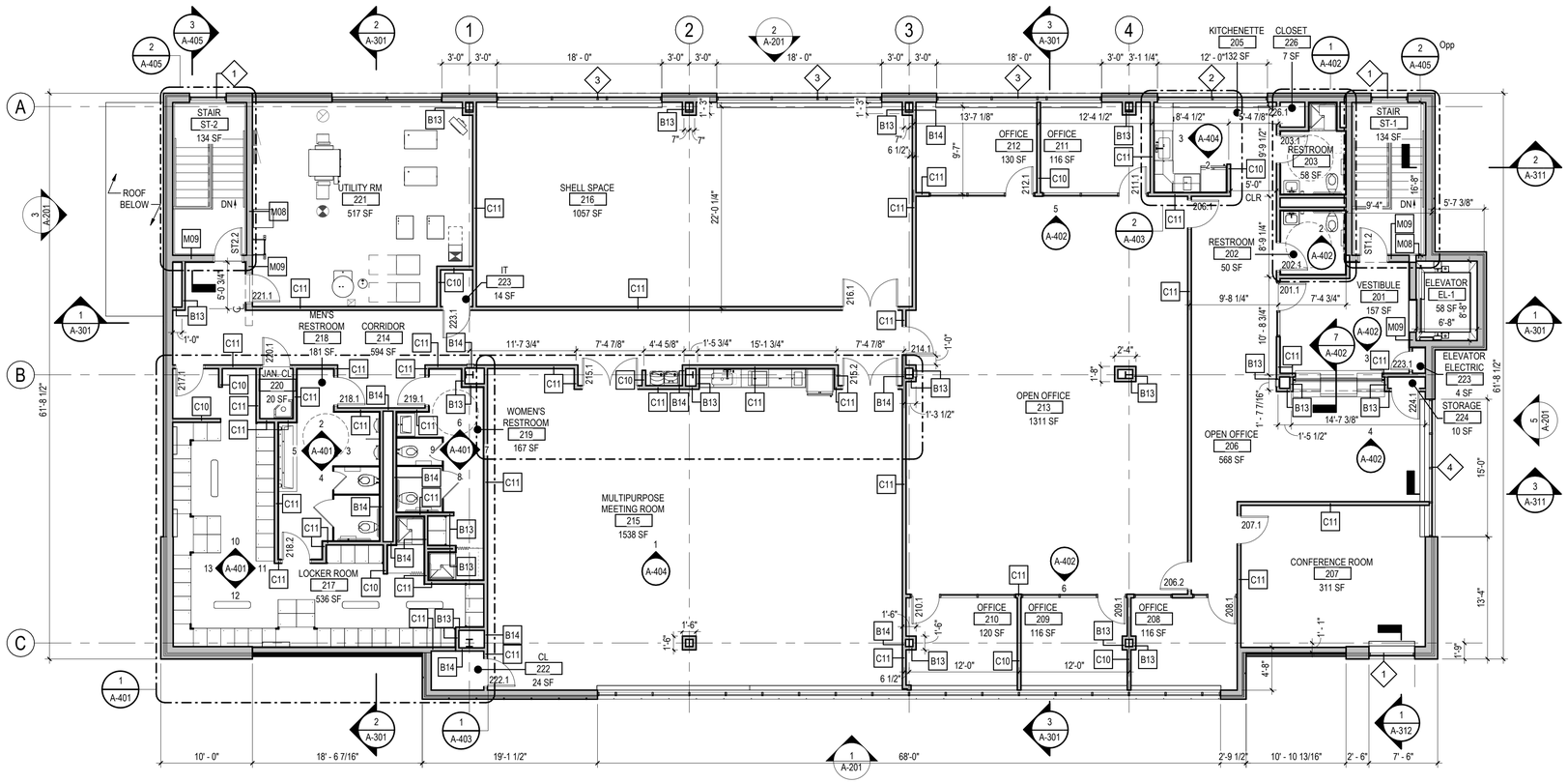
Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
FIRST FLOOR PLAN

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2020.12.11	**A-101**



1 A-102 **SECOND FLOOR PLAN**

1/8" = 1'-0"

GENERAL NOTES

1. LOCATE ROUGH OPENINGS FOR DOORS 4" FROM INSIDE FACE OF INTERSECTING WALL UNLESS OTHERWISE NOTED.
2. PROVIDE ACCESS IN PARTITIONS AT ALL LOCATIONS REQUIRING ACCESS. PANELS SHALL MAINTAIN FIRE RATING.
3. PROVIDE WOOD BLOCKING OR 18 GAUGE METAL STRAPPING BEHIND G.W.B. WHERE REQUIRED TO SUPPORT FIXTURES OR EQUIPMENT PROVIDED IN THE CONTRACT OR BY OTHERS.
4. ALL COLUMN ENCLOSURES TO BE PARTITION TYPE "B13" UNLESS NOTED OTHERWISE
5. ALL PARTITIONS TO BE "" UNLESS OTHERWISE NOTED.

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	JK	THC	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	CVR	THC	2020.12.11
	Dwn.	Dsgn.	Chkd.

Permit/Seal

REGISTERED ARCHITECT THOMAS HENRY CONNELL 020250 STATE OF NEW YORK

Client/Project Logo

1660 1904 CITY OF RYE NY 1942

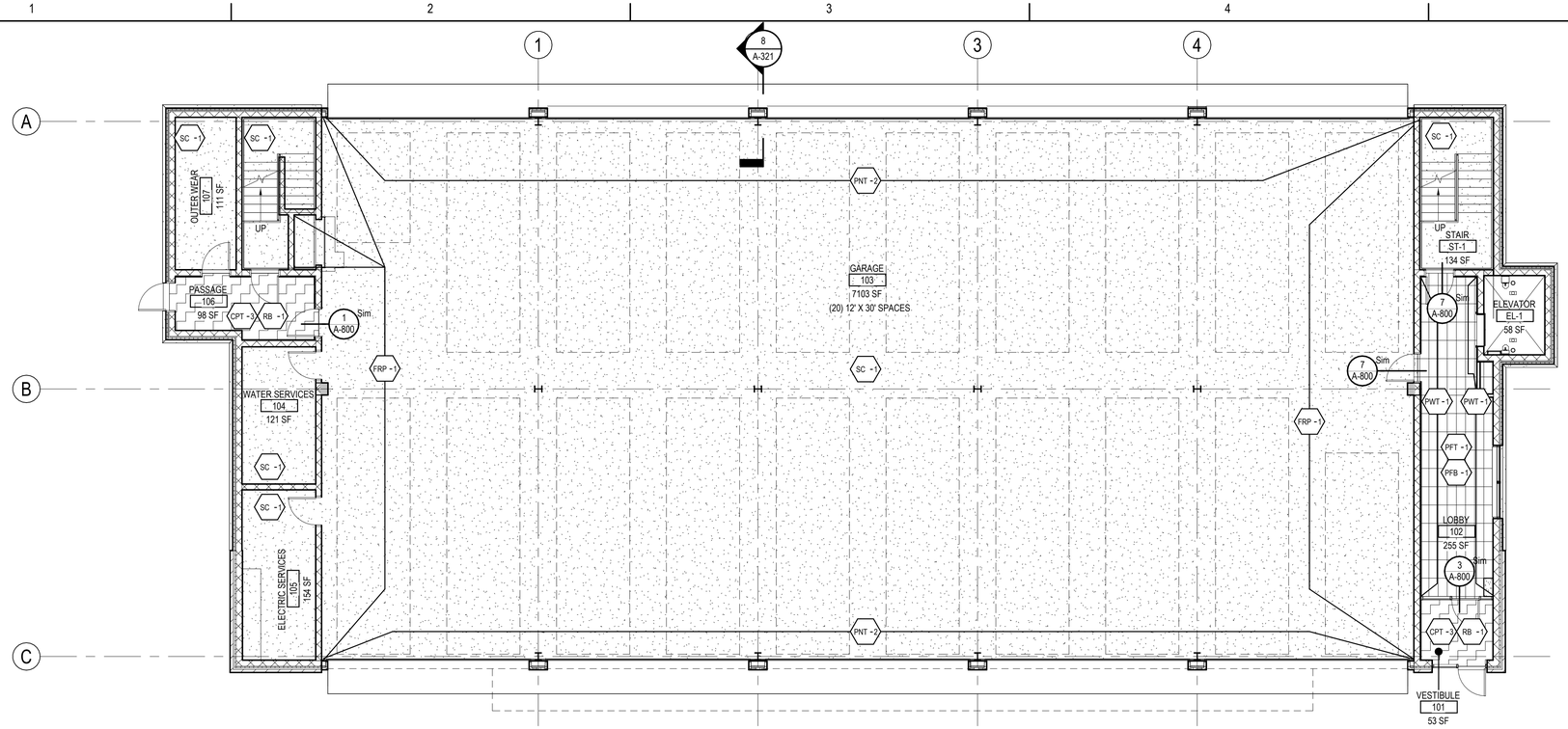
Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
SECOND FLOOR PLAN

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2020.12.11	**A-102**



1 FIRST FLOOR PLAN

A-103 — 1/8" = 1'-0"

FINISH SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH	CLASS RATING	ESTIMATED LEAD TIME	VENDOR CONTACT	COMMENTS
CASEWORK									
PLAM-1	PLASTIC LAMINATE	FORMICA	HIGH PRESSURE LAMINATE	06552-NG BLACK BIRCHPLY NATURAL GRAIN TEXTURE	-	CLASS A	4-6 WEEKS	Dennis Labonte <dennis.labonte@atlanticplywood.com>	MILLWORK CABINETS
SS-1	SOLID SURFACE	CORIAN	SOLID WHITES COLLECTION	GLACIER WHITE	-	CLASS A	4-6 WEEKS	Dennis Labonte <dennis.labonte@atlanticplywood.com>	GENERAL AT SINK LOCATIONS
WDV-1	WOOD VENEER	TREEFROG	MEDIUM WALNUT	40405 AMERICAN WALNUT CROWN	-		4-6 WEEKS	N/A	
CEILING									
ACT-1	CEILING	ARMSTRONG	OPTIMA SQUARE TEGULAR ACOUSTICAL CEILING TILE	WHITE	-	CLASS A	4-6 WEEKS	Gigi Fontaine <BFontaine@armstrongceilings.com>	GENERAL CEILING, 9/16" PRELUDE XL SUSPENSION SYSTEM.
ACT-2	CEILING	ARMSTRONG	ULTIMA HEALTH ZONE TEGULAR ACOUSTICAL CEILING TILE - 24"X24"X1" WITH 9/16 SQUARE TEGULAR EDGE DETAIL	WHITE	-	CLASS A	4-6 WEEKS	Gigi Fontaine <BFontaine@armstrongceilings.com>	GENERAL RESTROOM CEILING,9/16" SUPRAFINE SUSPENSION SYSTEM. COLOR: WHITE
FLOORING									
CPT-1	CARPET TILE	INTERFACE	OPEN AIR 401 COLLECTION	CHARCOAL	-	CLASS A	4-6 WEEKS	Michelena Clarke <Michelena.Clarke@interface.com>	GENERAL CARPET
CPT-2	CARPET TILE	INTERFACE	OPEN AIR 401 COLLECTION	FLANNEL	-	CLASS A	4-6 WEEKS	Michelena Clarke <Michelena.Clarke@interface.com>	ACCENT CARPET
CPT-3	CARPET TILE	INTERFACE	STEP REPEAT	ONYX	-	CLASS A	4-6 WEEKS	Michelena Clarke <Michelena.Clarke@interface.com>	WALK OFF
LVT-1	LUXURY VINYL TILE	INTERFACE	TEXTURED STONES	A00309 MEDIUM CONCRETE	-	CLASS A	4-6 WEEKS	Michelena Clarke <Michelena.Clarke@interface.com>	
LVT-2	LUXURY VINYL TILE	INTERFACE	TEXTURED STONES	A00310 DARK CONCRETE	-	CLASS A	4-6 WEEKS	Michelena Clarke <Michelena.Clarke@interface.com>	CORRIDORS
PFT-1	PORCELAIN FLOOR TILE	DALTILE	BYRNE	MIST	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	12"x24"
PFT-2	PORCELAIN FLOOR TILE	CROSSVILLE INC	PORTUGAL	HARVEST TAWNY PTG05	-	CLASS A	4-6 WEEKS	Pam King <pking@gstile.com>	12"x24" GRIP
PFT-3	PORCELAIN FLOOR TILE	CROSSVILLE INC	PORTUGAL	HARVEST TAWNY PTG05	-	CLASS A	4-6 WEEKS	Pam King <pking@gstile.com>	2"x2" GRIP SHOWER PAN
SC-1	SEALED CONCRETE	DUR-A-FLEX	DUR-A-GLAZE MVP3 PRIMER & SEALER		-	CLASS A	4-6 WEEKS	Sam Sacks <sams@dur-a-flex.com>	SMOOTH SEALED CONCRETE
GROUT									
GRT-1	FLOOR TILE GROUT	MAPEI	GROUT & COLOR COLLECTIONS	AVALANCHE 5038	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	COORDINATED W/ PFT-1
GRT-2	FLOOR TILE GROUT	MAPEI	GROUT & COLOR COLLECTIONS	GRAY 5009	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	COORDINATED W/ PFT-2 & PFT-3
GRT-3	WALL TILE GROUT	MAPEI	GROUT & COLOR COLLECTIONS	AVALANCHE 5038	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	COORDINATED W/ PWT-1
GRT-4	WALL TILE GROUT	MAPEI	GROUT & COLOR COLLECTIONS	GRAY 5009	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	COORDINATED W/ PWT-2
GRT-5	WALL TILE GROUT	MAPEI	GROUT & COLOR COLLECTIONS	AVALANCHE 5038	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	COORDINATED W/ CWT-1
WALL									
FRP-1	FIBERGLASS REINFORCED PLASTIC	KOROSEAL	KOROGARD SHEETS	PEWTER 21	-	CLASS A	4-6 WEEKS	N/A	PANELS TO BE INSTALLED VERTICALLY
PNT-1	PAINT	BENJAMIN MOORE	PAINT	CHANTILLY LACE	EGGSHELL	CLASS A	4-6 WEEKS	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>	GENERAL WALL PAINT (WHITE)
PNT-2	PAINT	BENJAMIN MOORE	PAINT	ACCENT TBD	EGGSHELL	CLASS A	4-6 WEEKS	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>	ACCENT WALL PAINT IN GARAGE
PNT-3	PAINT	BENJAMIN MOORE	PAINT	DECORATORS WHITE	FLAT	CLASS A	4-6 WEEKS	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>	GENERAL CEILING PAINT (WHITE)
WALL BASE									
PFB-1	PORCELAIN FLOOR BASE	DALTILE	BYRNE	MIST	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	4"x24" . SCHLUTER JOLLY-P INSTALLED TOP OF TILE.
PFB-2	PORCELAIN FLOOR BASE	CROSSVILLE INC	PORTUGAL	HARVEST TAWNY PTG05	-	CLASS A	4-6 WEEKS	Pam King <pking@gstile.com>	6"x24" COVE BASE
RB-1	RUBBER BASE	ROPPE	PINNACLE RUBBER BASE LONG TOE	100 BLACK	-	CLASS A	4-6 WEEKS	Mary Giordano <MGiordano@belknapwhite.com>	4" RUBBER BASE
WALL TILE									
CWT-1	CERAMIC WALL TILE	DALTILE	COLOR COLLECTION	ARCTIC WHITE 0190	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	
PWT-1	PORCELAIN FLOOR TILE	DALTILE	BYRNE	MIST FLUTED	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	12"x24" FLUTED
PWT-2	PORCELAIN WALLTILE	CROSSVILLE INC.	PORTUGAL	HARVEST TAWNY PTG05	-	CLASS A	4-6 WEEKS	Pam King <pking@gstile.com>	12"x24"

FINISH PLAN LEGEND

- XX -# FINISH TAG
- 1 KEYNOTE
- CARPET TILE TYPE 1
- CARPET TILE TYPE 2
- CARPET TILE TYPE 3
- PORCELAIN FLOOR TILE 1
- PORCELAIN FLOOR TILE 2
- LUXURY VINYL TILE FLOORING 1
- LUXURY VINYL TILE FLOORING 2
- SEALED CONCRETE
- NOT IN CONTRACT

FINISH PLAN NOTES

1. SEE SCHEDULE ON THIS SHEET FOR FINISH INFORMATION.
2. ALL WALLS TO BE PNT-1 U.O.N. ALL GWB CEILINGS TO BE PNT-3 U.O.N.
3. FLOOR FINISH AND WALL BASE TO CONTINUE UNDER COUNTERTOPS, ANY MILLWORK OPENINGS, EQUIPMENT LOCATIONS AND KITCHEN SINK CABINETS.
4. REFER TO ELEVATIONS FOR EXACT FINISH LOCATIONS.
5. CARPET TILE TO BE INSTALLED IN ASHLAR PATTERN U.O.N.

FINISH PLAN KEYNOTES

1. WALL BASE SHALL NOT EXTEND BEHIND LOCKERS. REFER TO FURNITURE PLAN FOR EXACT LOCATIONS.
2. PORCELAIN WALL TILE 2 TO BE INSTALLED ON ALL WALLS U.O.N. REFER TO ELEVATIONS FOR EXACT LOCATIONS.

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ISSUE FOR BID	JK	THC	2024.09.12
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REGISTERED ARCHITECT THOMAS HENRY OSTERLAND 022250 STATE OF NEW YORK

Client/Project Logo

1660 1904 CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

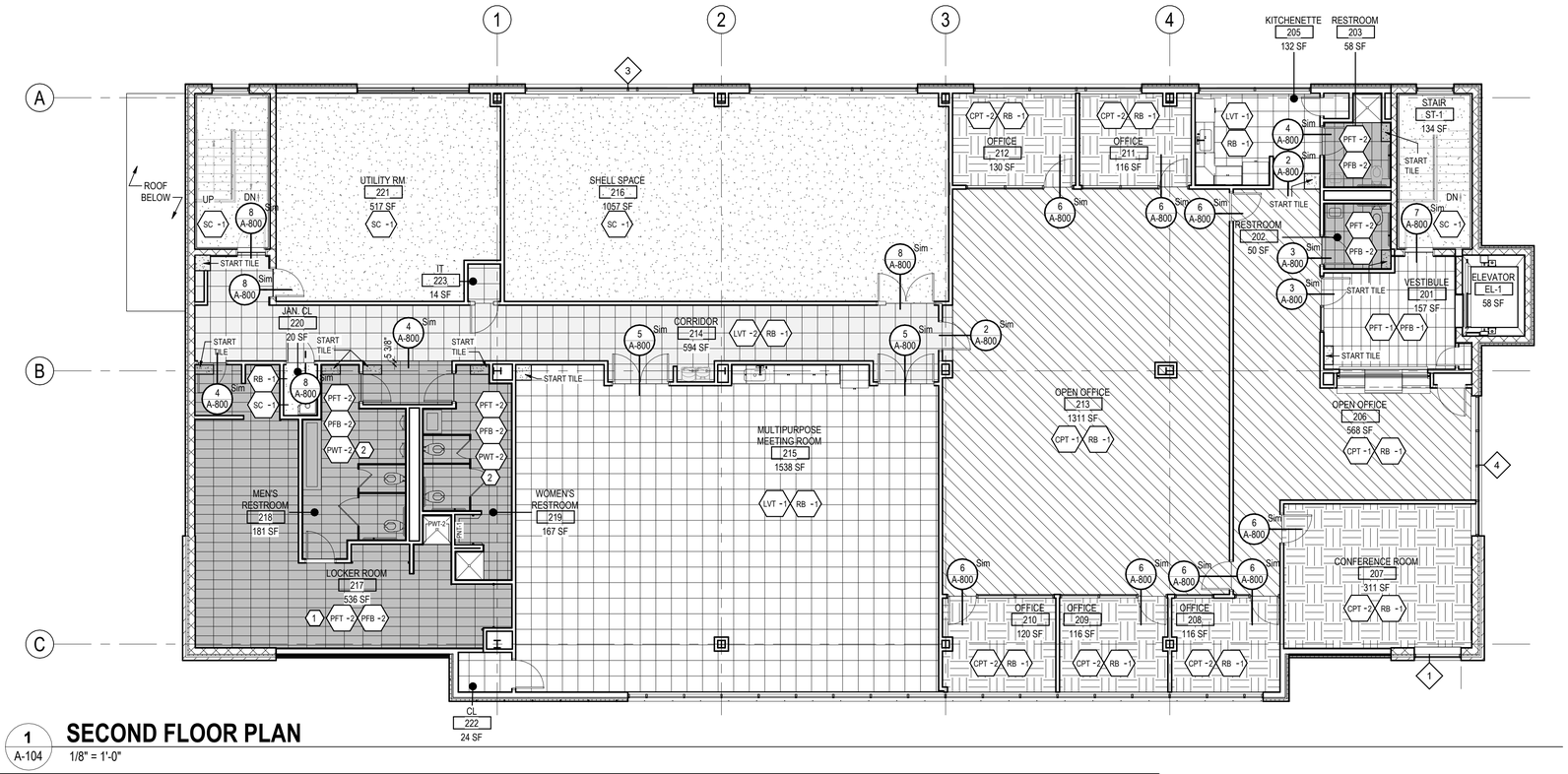
Title
FIRST FLOOR FINISH PLAN

Project No.
192311093

Scale
As indicated

Date
2020.12.11

Drawing No.
A-103



1 A-104 **SECOND FLOOR PLAN**

1/8" = 1'-0"

FINISH SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH	CLASS RATING	ESTIMATED LEAD TIME	VENDOR CONTACT	COMMENTS
CASEWORK									
PLAM-1	PLASTIC LAMINATE	FORMICA	HIGH PRESSURE LAMINATE	08552-NG BLACK BIRCHPLY NATURAL GRAIN TEXTURE	-	CLASS A	4-6 WEEKS	Dennis Labonte <dennis.labonte@atlanticplywood.com>	MILLWORK CABINETS
SS-1	SOLID SURFACE	CORIAN	SOLID WHITES COLLECTION	GLACIER WHITE	-	CLASS A	4-6 WEEKS	Dennis Labonte <dennis.labonte@atlanticplywood.com>	GENERAL AT SINK LOCATIONS
WDV-1	WOOD VENEER	TREEFROG	MEDIUM WALNUT	40405 AMERICAN WALNUT CROWN	-		4-6 WEEKS	N/A	
CEILING									
ACT-1	CEILING	ARMSTRONG	OPTIMA SQUARE TEGULAR ACOUSTICAL CEILING TILE	WHITE	-	CLASS A	4-6 WEEKS	Gigi Fontaine <BFontaine@armstrongceilings.com>	GENERAL CEILING, 9/16" PRELUDE XL SUSPENSION SYSTEM.
ACT-2	CEILING	ARMSTRONG	ULTIMA HEALTH ZONE TEGULAR ACOUSTICAL CEILING TILE - 24"X24"X1" WITH 9/16 SQUARE TEGULAR EDGE DETAIL	WHITE	-	CLASS A	4-6 WEEKS	Gigi Fontaine <BFontaine@armstrongceilings.com>	GENERAL RESTROOM CEILING,9/16" SUPRAFINE SUSPENSION SYSTEM. COLOR: WHITE
FLOORING									
CPT-1	CARPET TILE	INTERFACE	OPEN AIR 401 COLLECTION	CHARCOAL	-	CLASS A	4-6 WEEKS	Michelena Clarke <Michelena.Clarke@interface.com>	GENERAL CARPET
CPT-2	CARPET TILE	INTERFACE	OPEN AIR 401 COLLECTION	FLANNEL	-	CLASS A	4-6 WEEKS	Michelena Clarke <Michelena.Clarke@interface.com>	ACCENT CARPET
CPT-3	CARPET TILE	INTERFACE	STEP REPEAT	ONYX	-	CLASS A	4-6 WEEKS	Michelena Clarke <Michelena.Clarke@interface.com>	WALK OFF
LVT-1	LUXURY VINYL TILE	INTERFACE	TEXTURED STONES	A00309 MEDIUM CONCRETE	-	CLASS A	4-6 WEEKS	Michelena Clarke <Michelena.Clarke@interface.com>	
LVT-2	LUXURY VINYL TILE	INTERFACE	TEXTURED STONES	A00310 DARK CONCRETE	-	CLASS A	4-6 WEEKS	Michelena Clarke <Michelena.Clarke@interface.com>	CORRIDORS
PFT-1	PORCELAIN FLOOR TILE	DALTILE	BYRNE	MIST	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	12"x24"
PFT-2	PORCELAIN FLOOR TILE	CROSSVILLE INC	PORTUGAL	HARVEST TAWNY PTG05	-	CLASS A	4-6 WEEKS	Pam King <pking@gstile.com>	12"x24" GRIP
PFT-3	PORCELAIN FLOOR TLE	CROSSVILLE INC	PORTUGAL	HARVEST TAWNY PTG05	-	CLASS A	4-6 WEEKS	Pam King <pking@gstile.com>	2"x2" GRIP SHOWER PAN
SC-1	SEALED CONCRETE	DUR-A-FLEX	DUR-A-GLAZE MVP3 PRIMER & SEALER		-	CLASS A	4-6 WEEKS	Sam Sacks <sams@dur-a-flex.com>	SMOOTH SEALED CONCRETE
GROUT									
GRT-1	FLOOR TILE GROUT	MAPEI	GROUT & COLOR COLLECTIONS	AVALANCHE 5038	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	COORDINATED W/ PFT-1
GRT-2	FLOOR TILE GROUT	MAPEI	GROUT & COLOR COLLECTIONS	GRAY 5009	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	COORDINATED W/ PFT-2 & PFT-3
GRT-3	WALL TILE GROUT	MAPEI	GROUT & COLOR COLLECTIONS	AVALANCHE 5038	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	COORDINATED W/ PWT-1
GRT-4	WALL TILE GROUT	MAPEI	GROUT & COLOR COLLECTIONS	GRAY 5009	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	COORDINATED W/ PWT-2
GRT-5	WALL TILE GROUT	MAPEI	GROUT & COLOR COLLECTIONS	AVALANCHE 5038	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	COORDINATED W/ CWT-1
WALL									
FRP-1	FIBERGLASS REINFORCED PLASTIC	KOROSEAL	KOROGARD SHEETS	PEWTER 21	-	CLASS A	4-6 WEEKS	N/A	PANELS TO BE INSTALLED VERTICALLY
PNT-1	PAINT	BENJAMIN MOORE	PAINT	CHANTILLY LACE	EGGSHELL	CLASS A	4-6 WEEKS	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>	GENERAL WALL PAINT (WHITE)
PNT-2	PAINT	BENJAMIN MOORE	PAINT	ACCENT TBD	EGGSHELL	CLASS A	4-6 WEEKS	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>	ACCENT WALL PAINT IN GARAGE
PNT-3	PAINT	BENJAMIN MOORE	PAINT	DECORATORS WHITE	FLAT	CLASS A	4-6 WEEKS	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>	GENERAL CEILING PAINT (WHITE)
WALL BASE									
PFB-1	PORCELAIN FLOOR BASE	DALTILE	BYRNE	MIST	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	4"x24" . SCHLUTER JOLLY-P INSTALLED TOP OF TILE.
PFB-2	PORCELAIN FLOOR BASE	CROSSVILLE INC	PORTUGAL	HARVEST TAWNY PTG05	-	CLASS A	4-6 WEEKS	Pam King <pking@gstile.com>	6"x24" COVE BASE
RB-1	RUBBER BASE	ROPPE	PINNACLE RUBBER BASE LONG TOE	100 BLACK	-	CLASS A	4-6 WEEKS	Mary Giordano <MGiordano@belknapwhite.com>	4" RUBBER BASE
WALL TILE									
CWT-1	CERAMIC WALL TILE	DALTILE	COLOR COLLECTION	ARCTIC WHITE 0190	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	
PWT-1	PORCELAIN FLOOR TILE	DALTILE	BYRNE	MIST FLUTED	-	CLASS A	4-6 WEEKS	Peter PAS <peter.pas@daltile.com>	12"x24" FLUTED
PWT-2	PORCELAIN WALLTILE	CROSSVILLE INC.	PORTUGAL	HARVEST TAWNY PTG05	-	CLASS A	4-6 WEEKS	Pam King <pking@gstile.com>	12"x24"

FINISH PLAN LEGEND

XX -# FINISH TAG

1 KEYNOTE

- CARPET TILE TYPE 1
- CARPET TILE TYPE 2
- CARPET TILE TYPE 3
- PORCELAIN FLOOR TILE 1
- PORCELAIN FLOOR TILE 2
- LUXURY VINYL TILE FLOORING 1
- LUXURY VINYL TILE FLOORING 2
- SEALED CONCRETE
- NOT IN CONTRACT

FINISH PLAN NOTES

1. SEE SCHEDULE ON THIS SHEET FOR FINISH INFORMATION.
2. ALL WALLS TO BE PNT-1 U.O.N. ALL GWB CEILINGS TO BE PNT-3 U.O.N.
3. FLOOR FINISH AND WALL BASE TO CONTINUE UNDER COUNTERTOPS, ANY MILLWORK OPENINGS, EQUIPMENT LOCATIONS AND KITCHEN SINK CABINETS.
4. REFER TO ELEVATIONS FOR EXACT FINISH LOCATIONS.
5. CARPET TILE TO BE INSTALLED IN ASHLAR PATTERN U.O.N.

FINISH PLAN KEYNOTES

1. WALL BASE SHALL NOT EXTEND BEHIND LOCKERS. REFER TO FURNITURE PLAN FOR EXACT LOCATIONS.
2. PORCELAIN WALL TILE 2 TO BE INSTALLED ON ALL WALLS U.O.N. REFER TO ELEVATIONS FOR EXACT LOCATIONS.

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Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	JK	THC	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	CVR	THC	AJP	2020.12.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
SECOND FLOOR FINISH PLAN

Project No.
192311093

Scale
As indicated

Date
2020.12.11

Drawing No.
A-104

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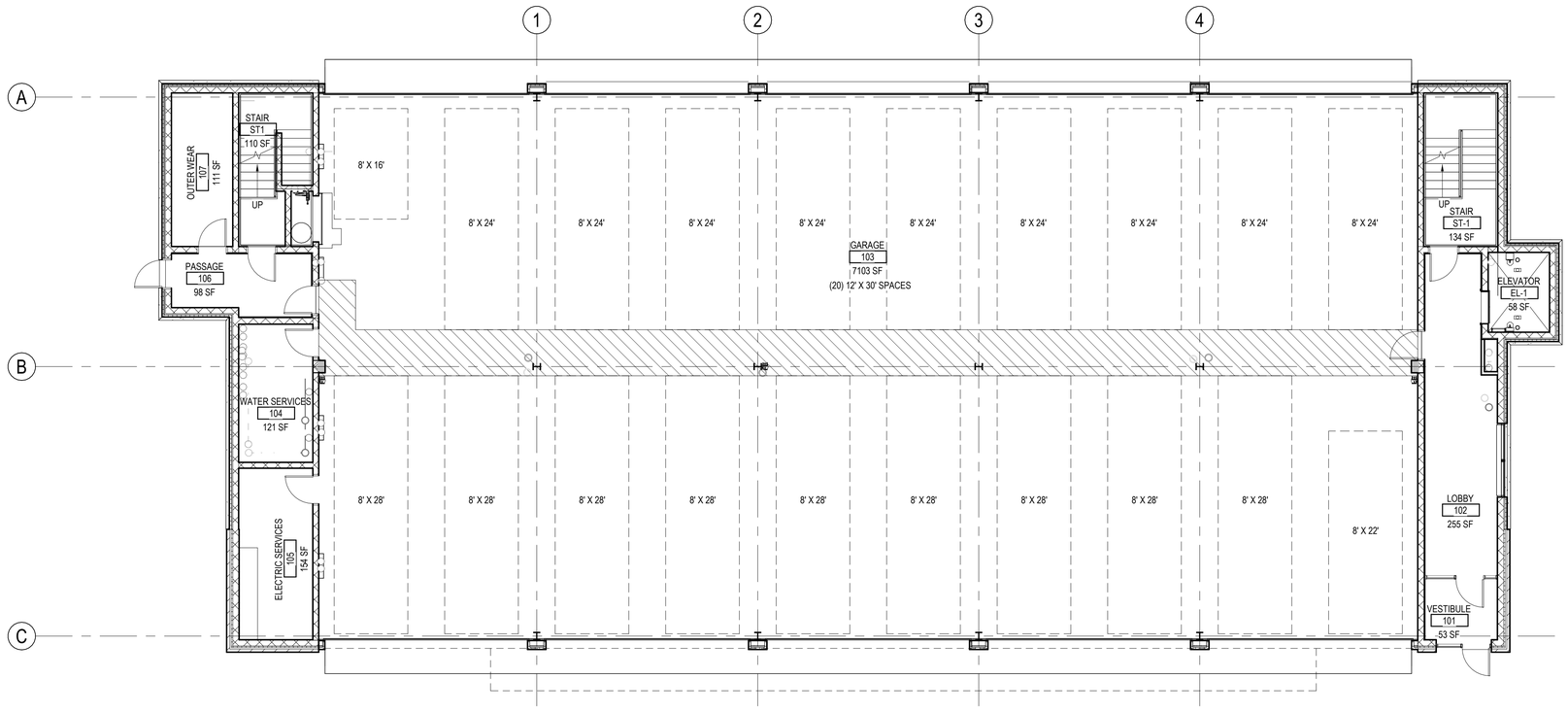

1 FIRST FLOOR FURNITURE PLAN_ FOR REFERENCE ONLY

A-105

1/8" = 1'-0"

GENERAL FURNITURE NOTES

1. FURNITURE SHOWN IS FOR REFERENCE ONLY. FURNITURE TO BE PROVIDED AND INSTALLED BY OWNER.
2. REFER TO MEP DRAWINGS FOR ADDITIONAL EQUIPMENT INFORMATION.
3. REFER TO PLUMBING SHEETS FOR PLUMBING FIXTURE SCHEDULE.
4. INTERIOR SIGNAGE TO BE PROVIDED BY OWNER, INSTALLED BY CM.

EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MANUF.	MODEL	COLOR	RELOCATED	GC PROVIDED	OWNER PROVIDED	GC INSTALLED	OWNER INSTALLED	COMMENTS
EQ1	TOP MOUNT REFRIGERATOR	WHIRLPOOL	WRT541SZD	MONOCHROMATIC STAINLESS STEEL		•		•		
EQ2	COMMERCIAL MICROWAVE	PANASONIC	1000 W. COMMERCIAL MICROWAVE NE-1064F	STAINLESS STEEL		•		•		
EQ3	COFFE MAKER	OWNER PROVIDED	OWNER PROVIDED				•		•	

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Drawing No.
A-105

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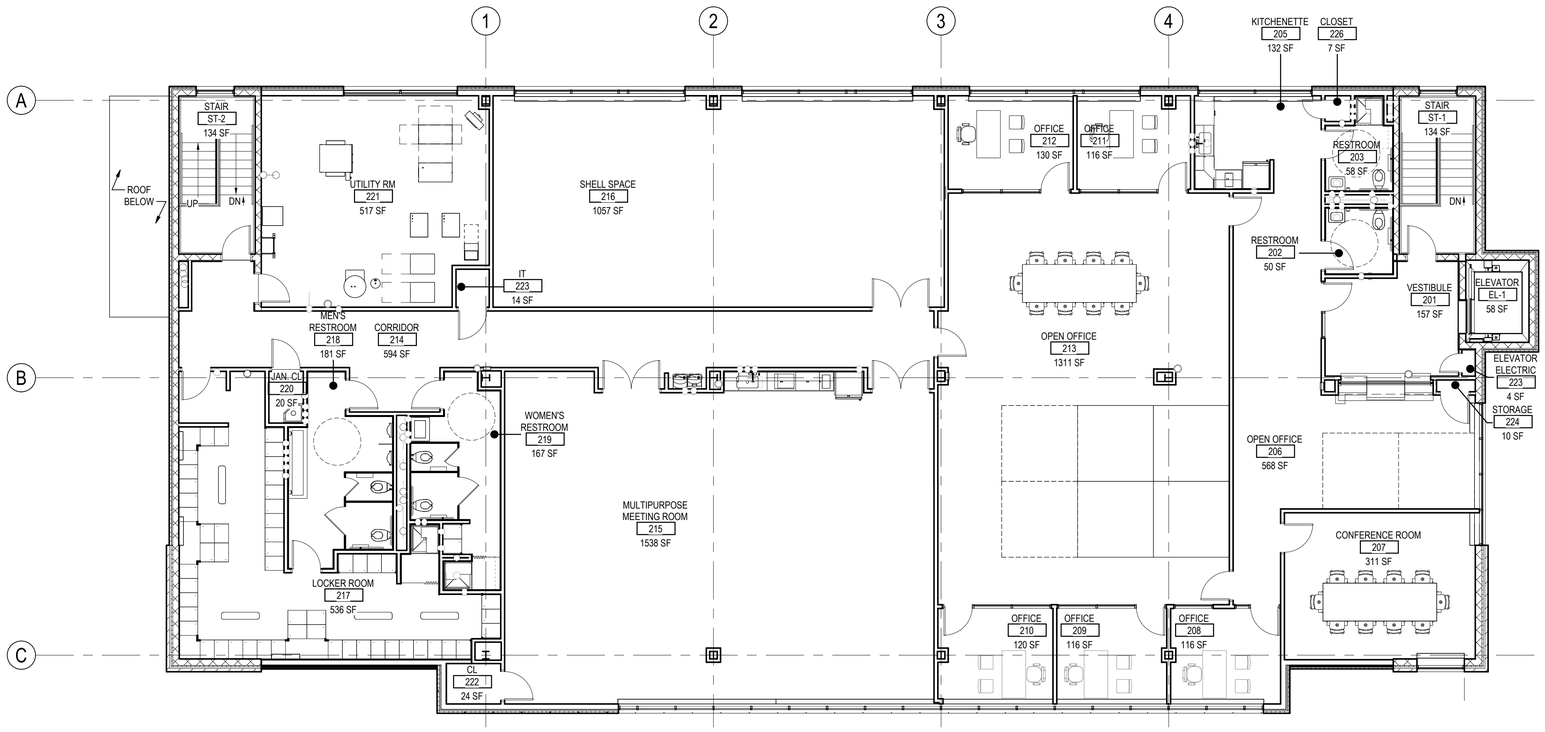

1 SECOND FLOOR FURNITURE PLAN_ FOR REFERENCE ONLY

A-106

1/8" = 1'-0"

GENERAL FURNITURE NOTES

1. FURNITURE SHOWN IS FOR REFERENCE ONLY. FURNITURE TO BE PROVIDED AND INSTALLED BY OWNER.
2. REFER TO MEP DRAWINGS FOR ADDITIONAL EQUIPMENT INFORMATION.
3. REFER TO PLUMBING SHEETS FOR PLUMBING FIXTURE SCHEDULE.
4. INTERIOR SIGNAGE TO BE PROVIDED BY OWNER, INSTALLED BY CM.

EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MANUF.	MODEL	COLOR	RELOCATED	GC PROVIDED	OWNER PROVIDED	GC INSTALLED	OWNER INSTALLED	COMMENTS
EQ1	TOP MOUNT REFRIGERATOR	WHIRLPOOL	WRT541SZD	MONOCHROMATIC STAINLESS STEEL		•		•		
EQ2	COMMERCIAL MICROWAVE	PANASONIC	1000 W. COMMERCIAL MICROWAVE NE-1064F	STAINLESS STEEL		•		•		
EQ3	COFFE MAKER	OWNER PROVIDED	OWNER PROVIDED				•		•	

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DISBROW PARK
RYE, NY 10580

Title
SECOND FLOOR FURNITURE PLAN_ FOR REFERENCE ONLY

Project No.
192311093

Scale
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Date
2020.12.11

Drawing No.
A-106

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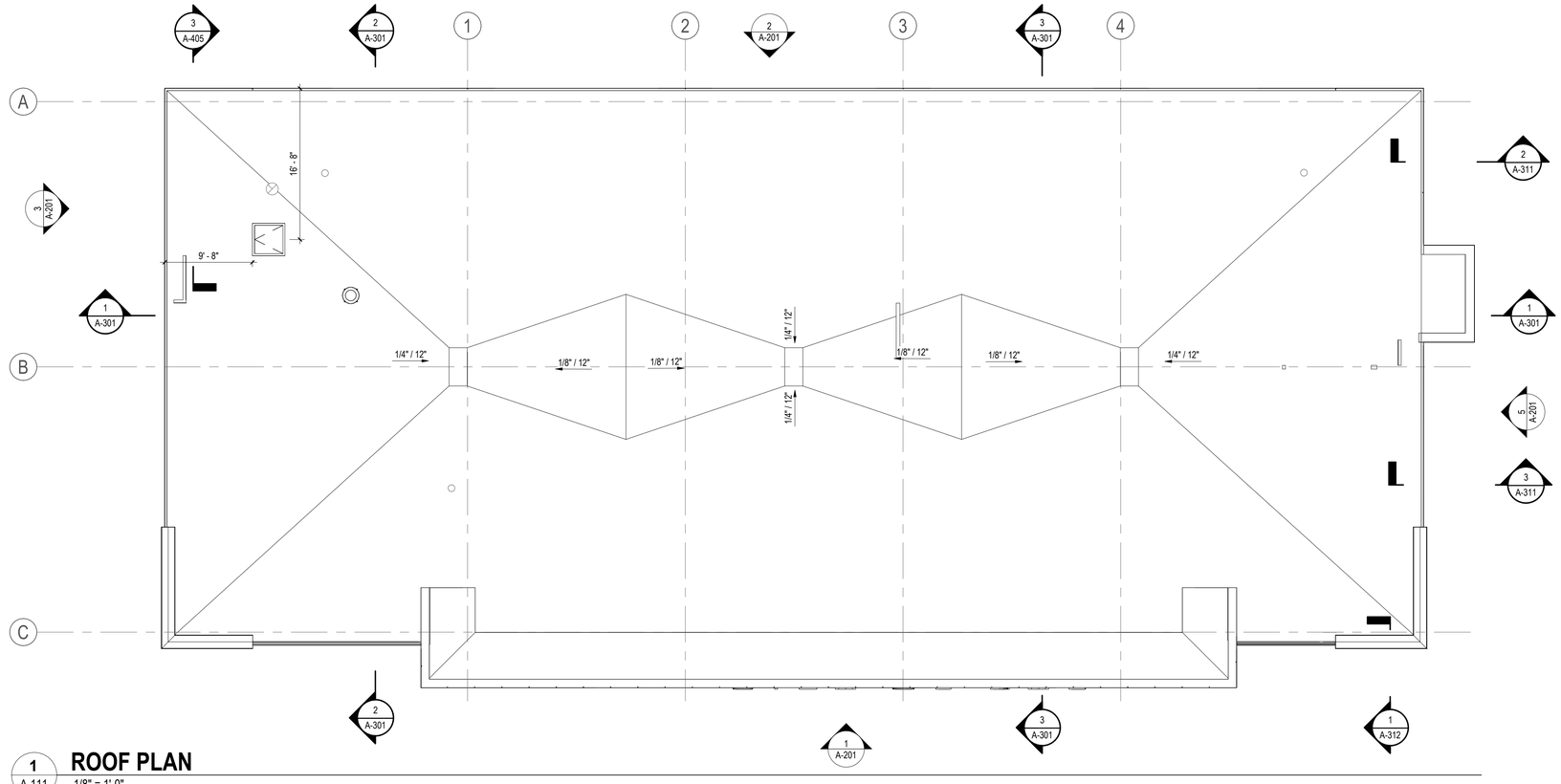

1 A-111 ROOF PLAN

1/8" = 1'-0"

GENERAL NOTES

1. MINIMUM SLOPE ALLOWABLE ON THE ROOF SHALL BE NO LESS THAN 1/4" PER FOOT UNLESS NOTED OTHERWISE.
2. ALL TAPERED ROOFING INSULATION FOR CRICKETS SLOPE TO DRAIN AT 1/8" PER FOOT. TYPICAL. PROVIDE CRICKETS AT ALL OBSTRUCTIONS TO MAINTAIN POSITIVE DRAINAGE.
3. ALL ROOF DRAINS TO HAVE A 4" MINIMUM DEPTH OF INSULATION AT SUMP, U.N.O.
4. ALL BLOCKING SHALL BE PRESSURE TREATED.
5. PROVIDE WALKWAY PADS AT ALL ROOF ACCESS POINTS AND TO ALL ROOFTOP MOUNTED MECHANICAL UNITS.
6. REFER TO MEP AMD STRUCTURAL DRAWINGS FOR SIZE AND LOCATION OF NEW DECK PENETRATIONS AND ROOFTOP EQUIPMENT.
7. COORDINATE ALL ROOF PENETRATIONS W/ MECH., PLUMB., ELEC. AND STRUCTURAL DRAWINGS. SEE M.E.P. DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS NOT SHOWN.
8. PROVIDE CONTINUOUS FLASHING & COUNTER FLASHING AT ALL ROOF TO WALL CONDITIONS & PARAPET CONDITIONS.
9. SLOPE ALL COPINGS TOWARD ROOF U.N.O.
10. UPON SUBSTANTIAL COMPLETION THE GENERAL CONTRACTOR SHALL EXAMINE AND ENSURE DRAIN LINES, GUTTERS AND DOWNSPOUTS ARE FREE OF DEBRIS AND BLOCKAGE. FLUSH WITH WATER TO ENSURE THAT DRAINS FLOW FREELY, WHERE APPLICABLE

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ROOF PLAN

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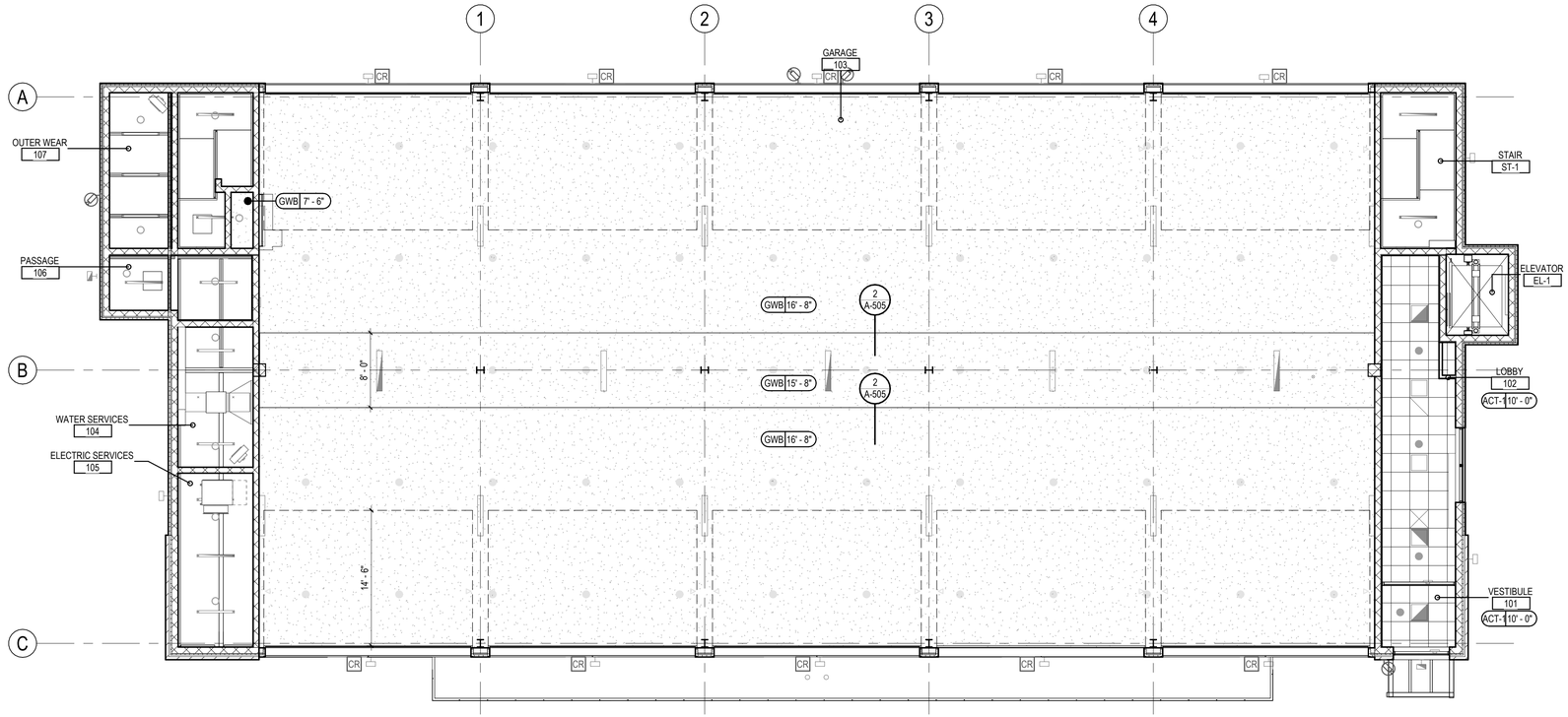

1 FIRST FLOOR REFLECTED CEILING PLAN

A-121 — 1/8" = 1'-0"

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, A.C.T. GRIDS ARE TO BE CENTERED IN ROOM.
2. LIGHT FIXTURES, FIRE DETECTORS DEVICES, AND DIFFUSERS ARE SHOWN FOR LOCATION COORDINATION PURPOSES ONLY. REFER TO MECHANICAL AND ELECTRICAL TRADE DRAWINGS FOR ACTUAL LIGHT FIXTURE, AND DIFFUSER INFORMATION.
3. ALL FIXTURES, SPRINKLER HEADS & EXIT SIGNS ARE TO BE LOCATED AT THE CENTER OF A CEILING TILE UNLESS NOTED OTHERWISE. PROVIDE PROPOSED LOCATIONS IN DRYWALL CEILING TO OWNER FOR APPROVAL.
4. MECHANICAL SUPPLIES, RETURNS AND SPRINKLER HEADS SHOWN FOR COORDINATION ONLY. REFER TO MECHANICAL AND FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
5. ALL EXPOSED ROOF STRUCTURE, UNDERSIDE OF ROOF DECK, AND MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SERVICES/EQUPIMENT TO BE PAINTED EXCEPT FOR SPRINKLER HEADS AND VAVS.
6. LIGHT FIXTURES IN SHOWERS TO BE RATED FOR WET LOCATIONS.

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FIRST FLOOR REFLECTED CEILING PLAN

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192311093	As indicated
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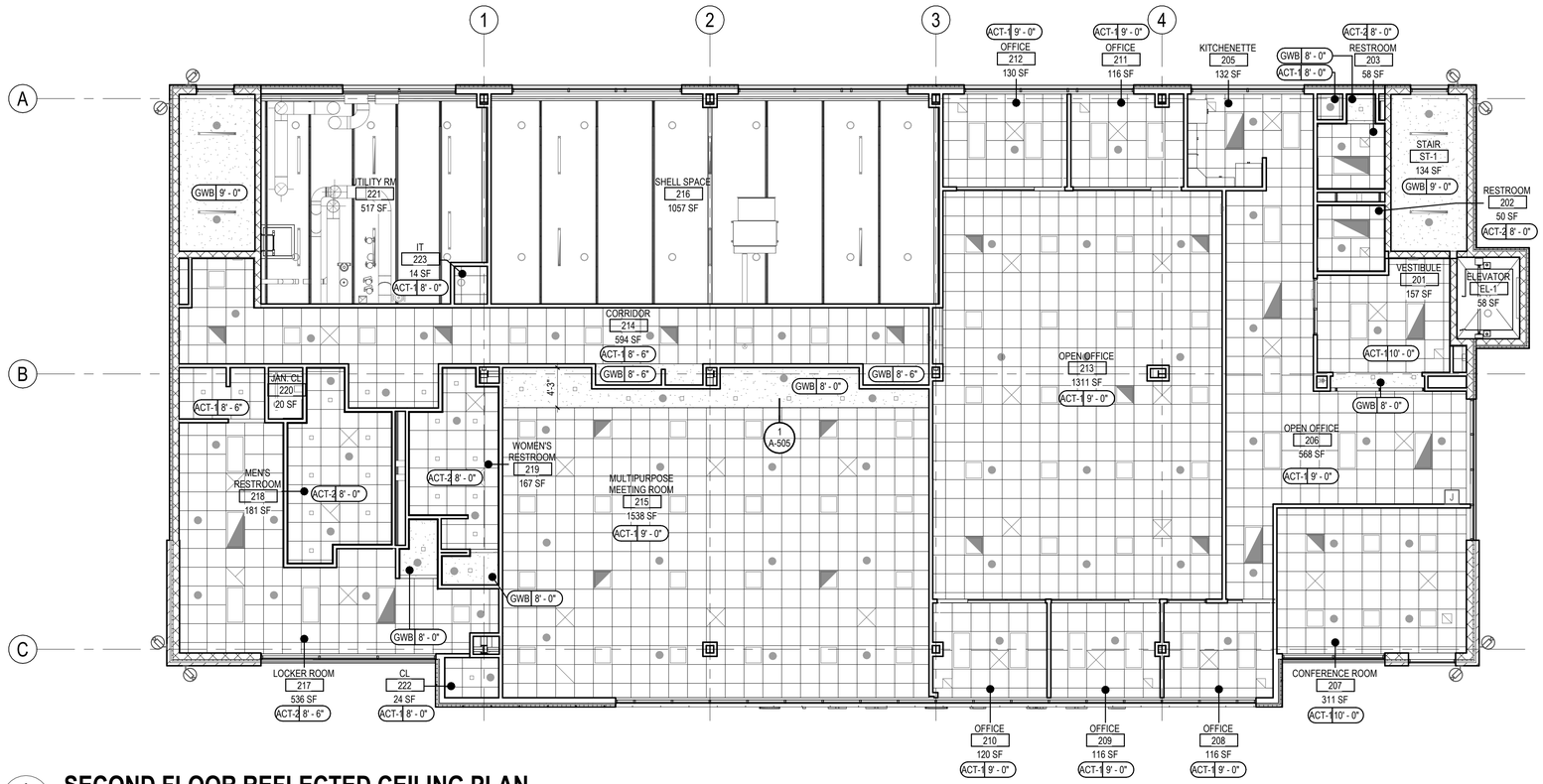

1 SECOND FLOOR REFLECTED CEILING PLAN

A-122 | 1/8" = 1'-0"

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, A.C.T. GRIDS ARE TO BE CENTERED IN ROOM.
2. LIGHT FIXTURES, FIRE DETECTORS DEVICES, AND DIFFUSERS ARE SHOWN FOR LOCATION COORDINATION PURPOSES ONLY. REFER TO MECHANICAL AND ELECTRICAL TRADE DRAWINGS FOR ACTUAL LIGHT FIXTURE, AND DIFFUSER INFORMATION.
3. ALL FIXTURES, SPRINKLER HEADS & EXIT SIGNS ARE TO BE LOCATED AT THE CENTER OF A CEILING TILE UNLESS NOTED OTHERWISE. PROVIDE PROPOSED LOCATIONS IN DRYWALL CEILING TO OWNER FOR APPROVAL.
4. MECHANICAL SUPPLIES, RETURNS AND SPRINKLER HEADS SHOWN FOR COORDINATION ONLY. REFER TO MECHANICAL AND FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
5. ALL EXPOSED ROOF STRUCTURE, UNDERSIDE OF ROOF DECK, AND MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SERVICES/EQUPIMENT TO BE PAINTED EXCEPT FOR SPRINKLER HEADS AND VAVS.
6. LIGHT FIXTURES IN SHOWERS TO BE RATED FOR WET LOCATIONS.

REFLECTED CEILING PLAN LEGEND

- 2x2 ACOUSTICAL CEILING TILE SYSTEM
- GYPSUM BOARD CEILING
- RECESSED LED DOWNLIGHT
- LINEAR PENDANT (CAFE) - VARIOUS HEIGHTS
- 2x2 RECESSED LED
- 2x4 RECESSED LED
- EMERGENCY LIGHT FIXTURES, REFER TO ELECTRICAL DRAWINGS
- SPRINKLER HEAD

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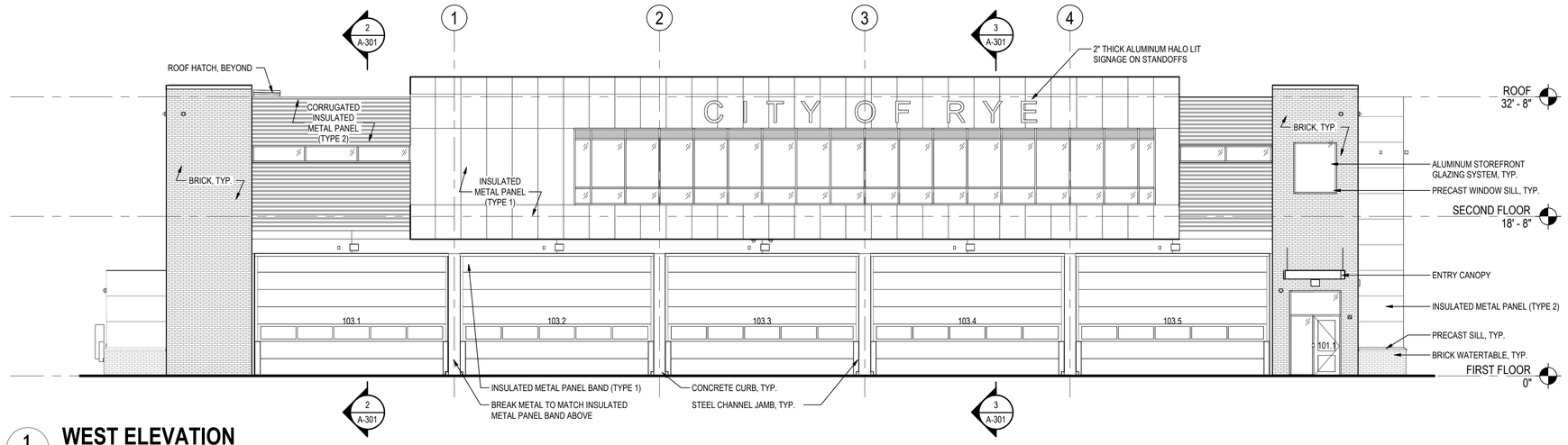
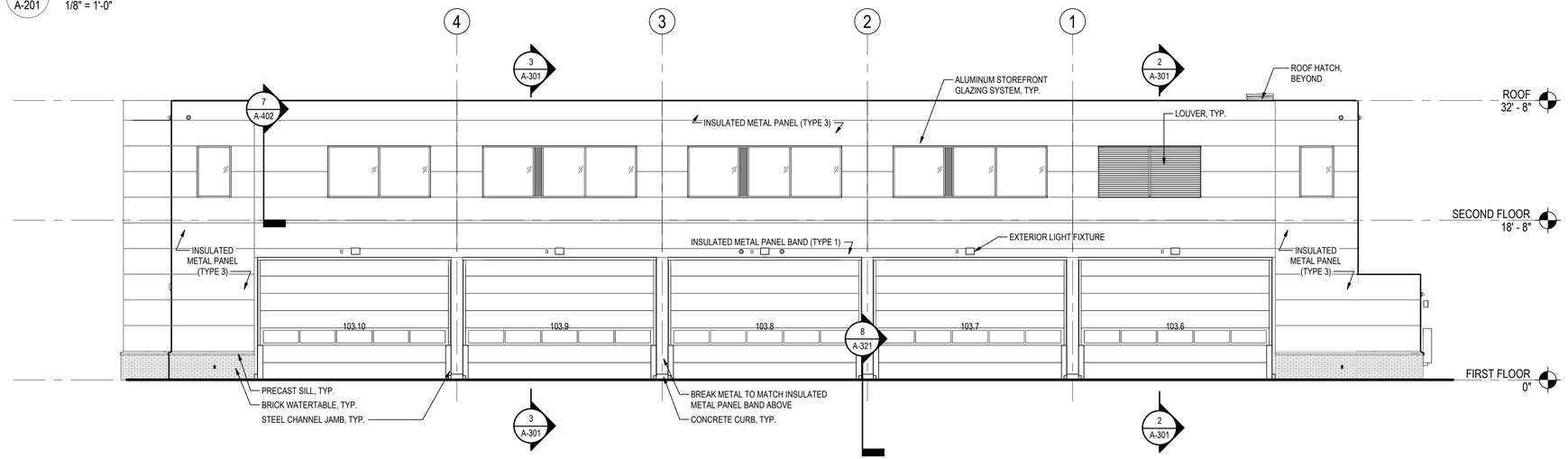


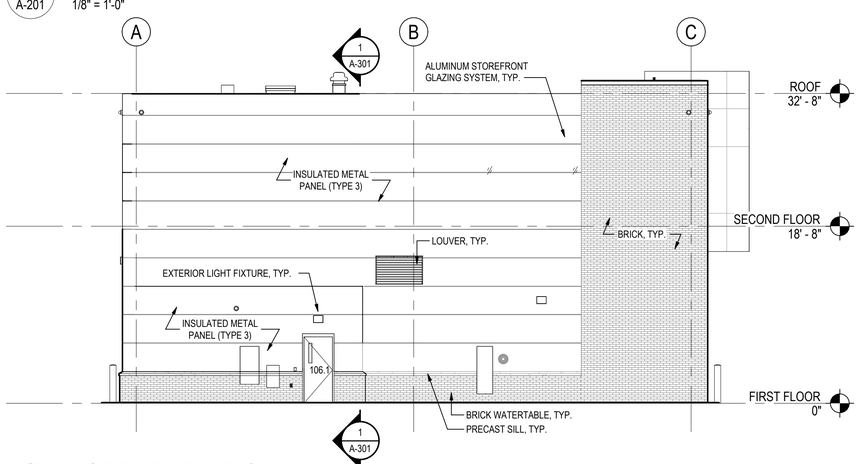
1 A-201 **WEST ELEVATION**

1/8" = 1'-0"



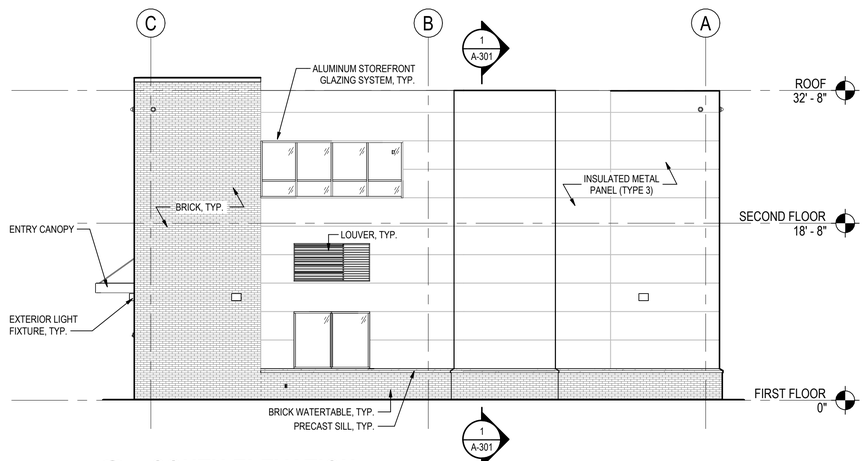
2 A-201 **EAST ELEVATION**

1/8" = 1'-0"



3 A-201 **NORTH ELEVATION**

1/8" = 1'-0"



5 A-201 **SOUTH ELEVATION**

1/8" = 1'-0"

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DPW ADMIN BUILDING

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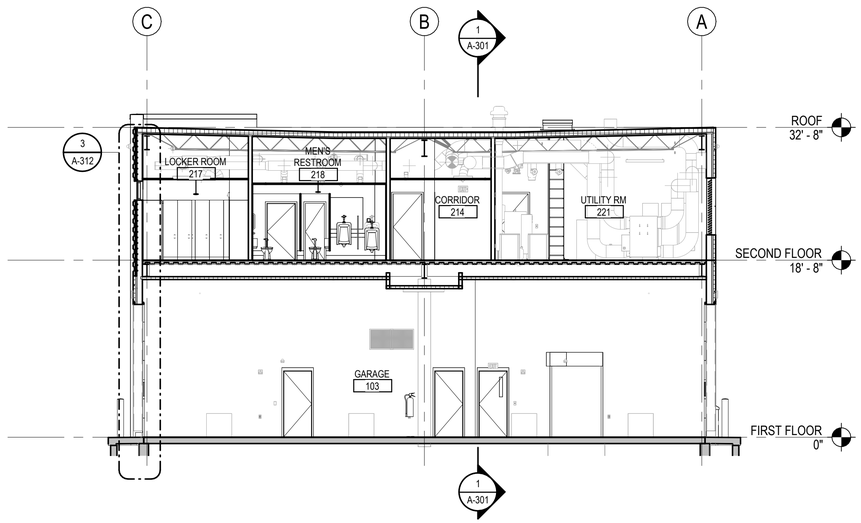
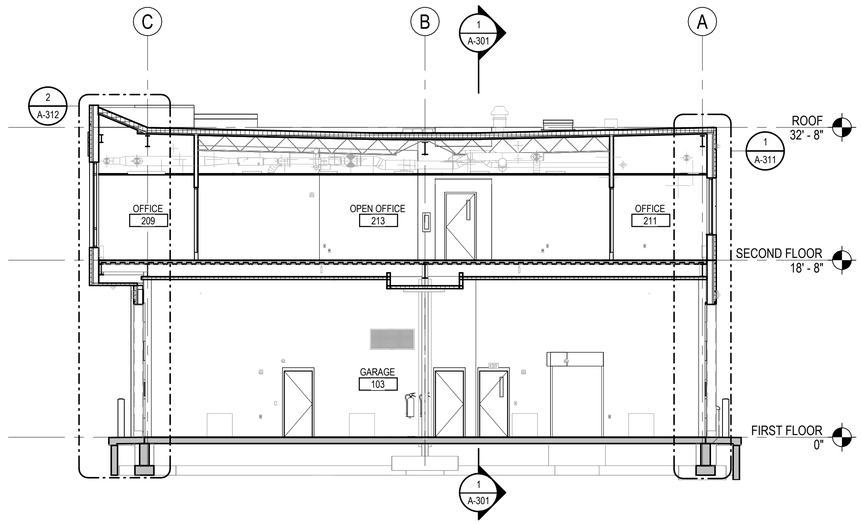
Title
BUILDING ELEVATIONS

Project No.	Scale
192311093	1/8" = 1'-0"
Date	Drawing No.
2020.12.11	**A-201**



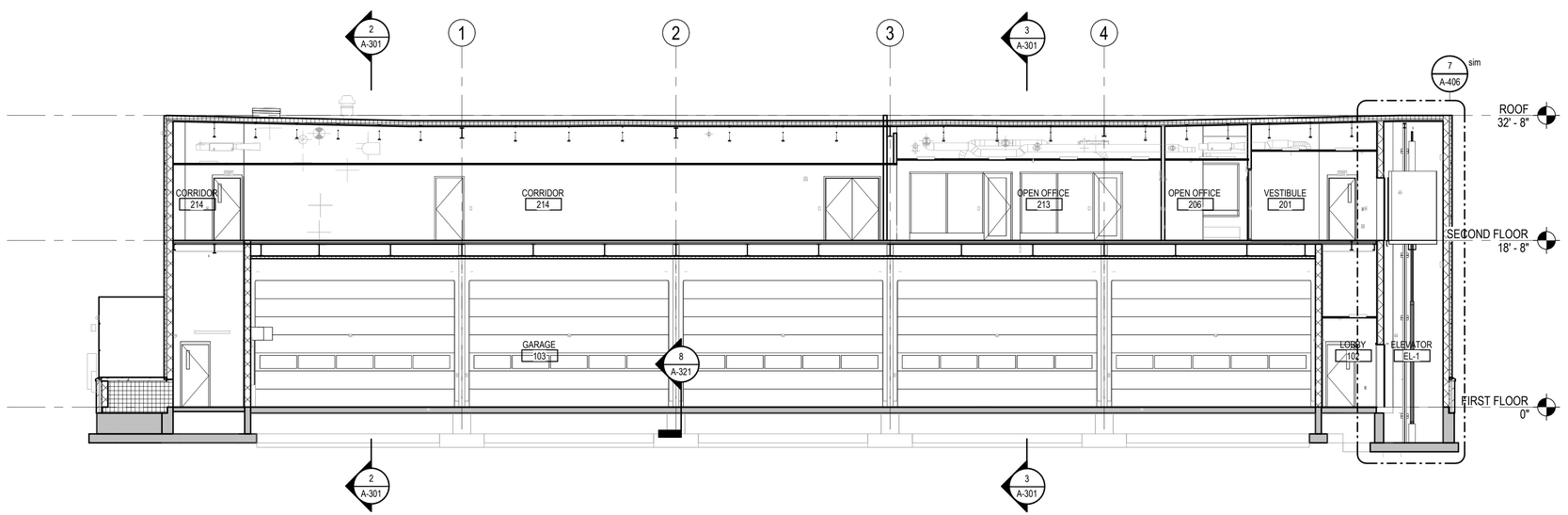
2 BUILDING SECTION

2 A-301 — 1/8" = 1'-0"



3 BUILDING SECTION

3 A-301 — 1/8" = 1'-0"



1 BUILDING SECTION

1 A-301 — 1/8" = 1'-0"

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	JK	THC	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	CVR	THC	A.JP	2020.12.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

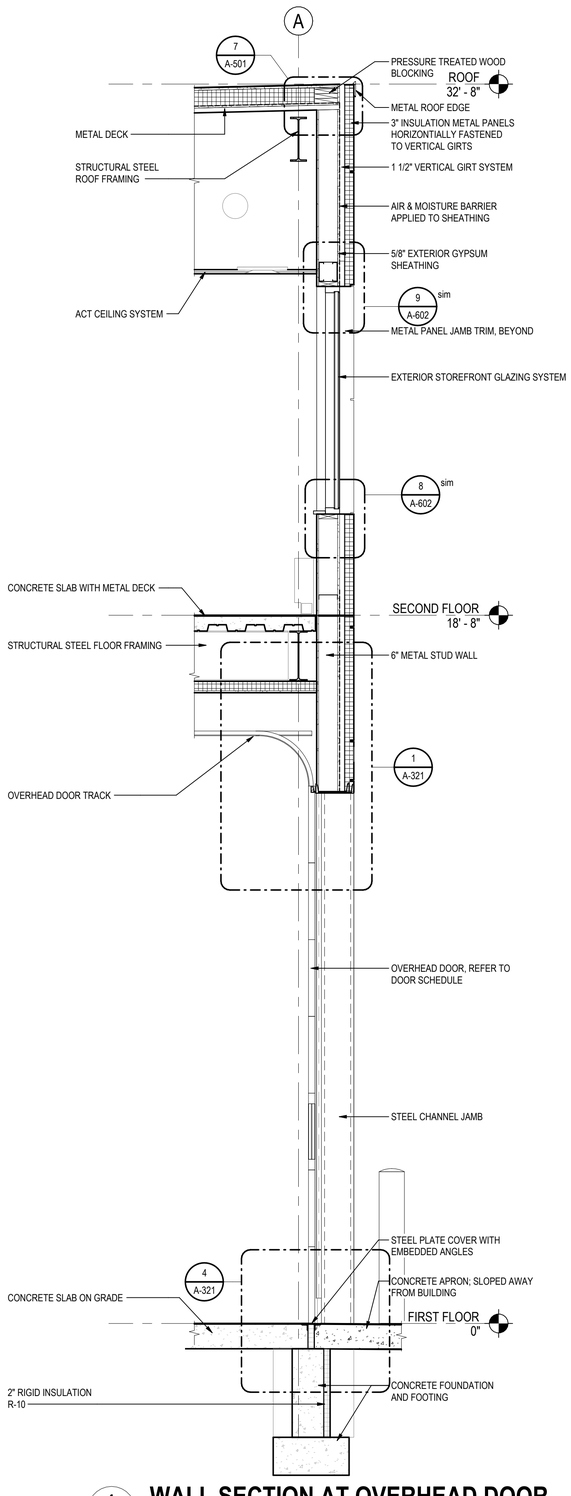
Client/Project
CITY OF RYE

DPW ADMIN BUILDING

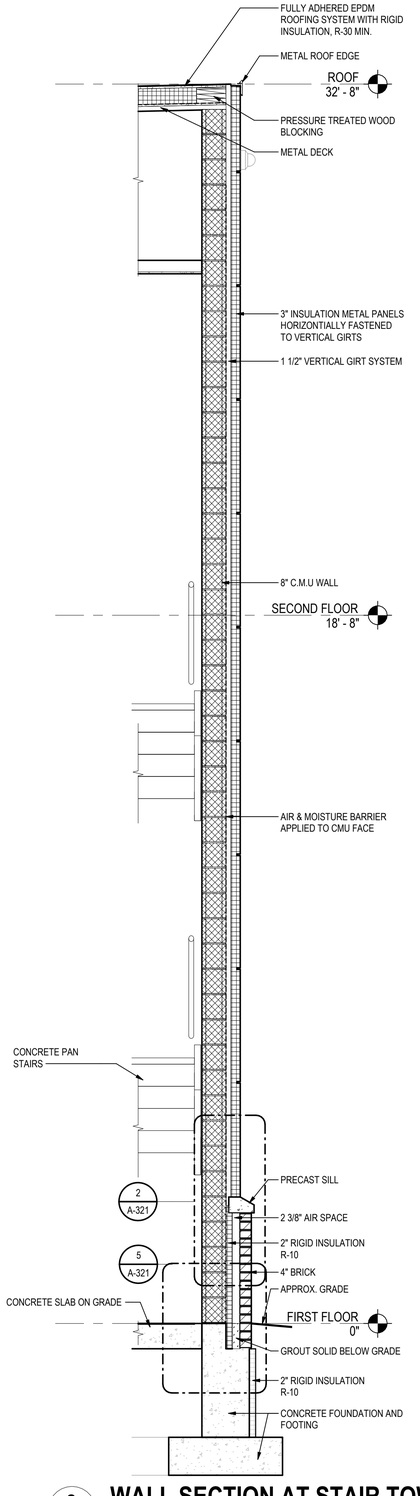
DISBROW PARK
RYE, NY 10580

Title
BUILDING SECTIONS

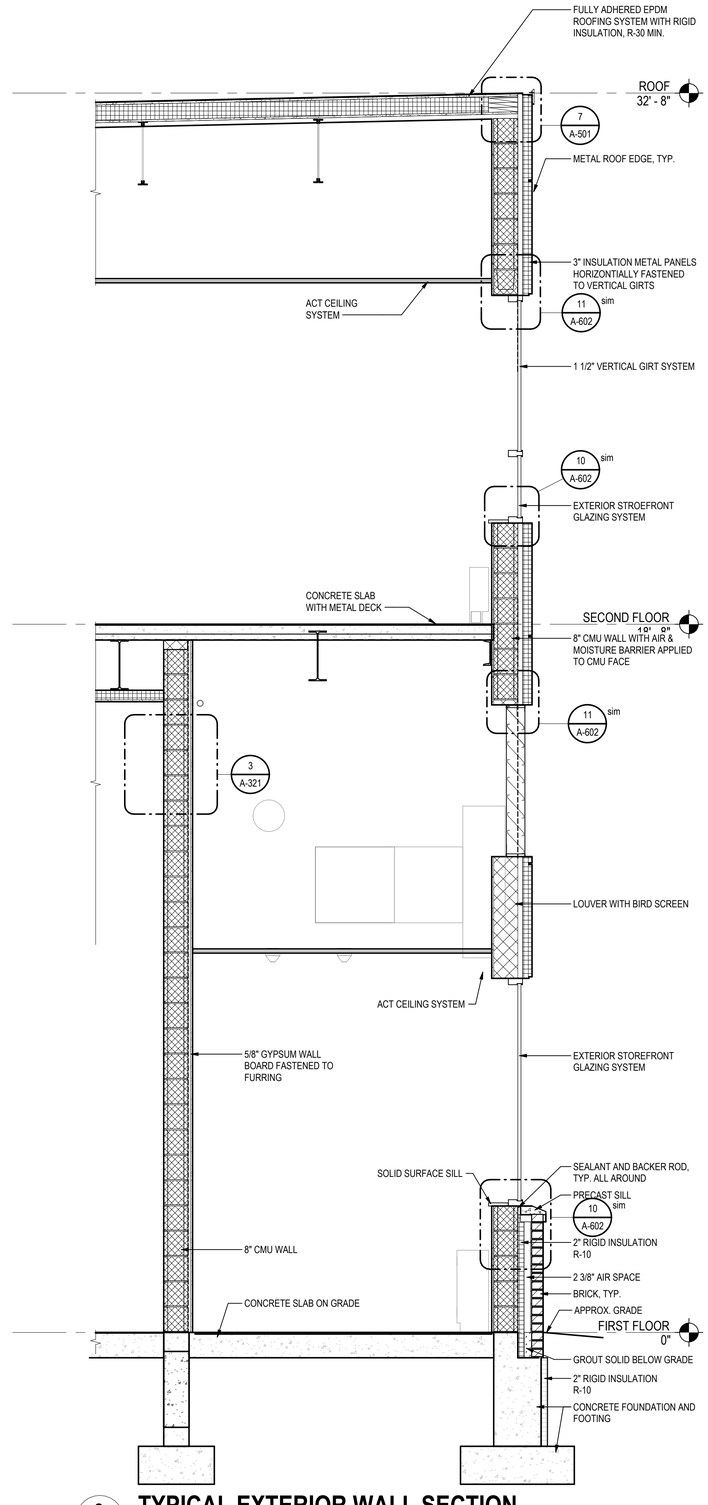
Project No.	Scale
192311093	1/8" = 1'-0"
Date	Drawing No.
2020.12.11	A-301



1 A-311 **WALL SECTION AT OVERHEAD DOOR**
1/2" = 1'-0"



2 A-311 **WALL SECTION AT STAIR TOWER**
1/2" = 1'-0"



3 A-311 **TYPICAL EXTERIOR WALL SECTION**
1/2" = 1'-0"

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Issued	By	Appd	YYYY.MM.DD
	CVR	THC	AJP	2020.12.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT
THOMAS HENRY CASPERSEN
020250
STATE OF NEW YORK

Client/Project Logo

16160 19104
CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
WALL SECTIONS

Project No.
192311093

Scale
1/2" = 1'-0"

Date
2020.12.11

Drawing No.
A-311

PLOTTED: 10/7/2024 4:54:19 PM
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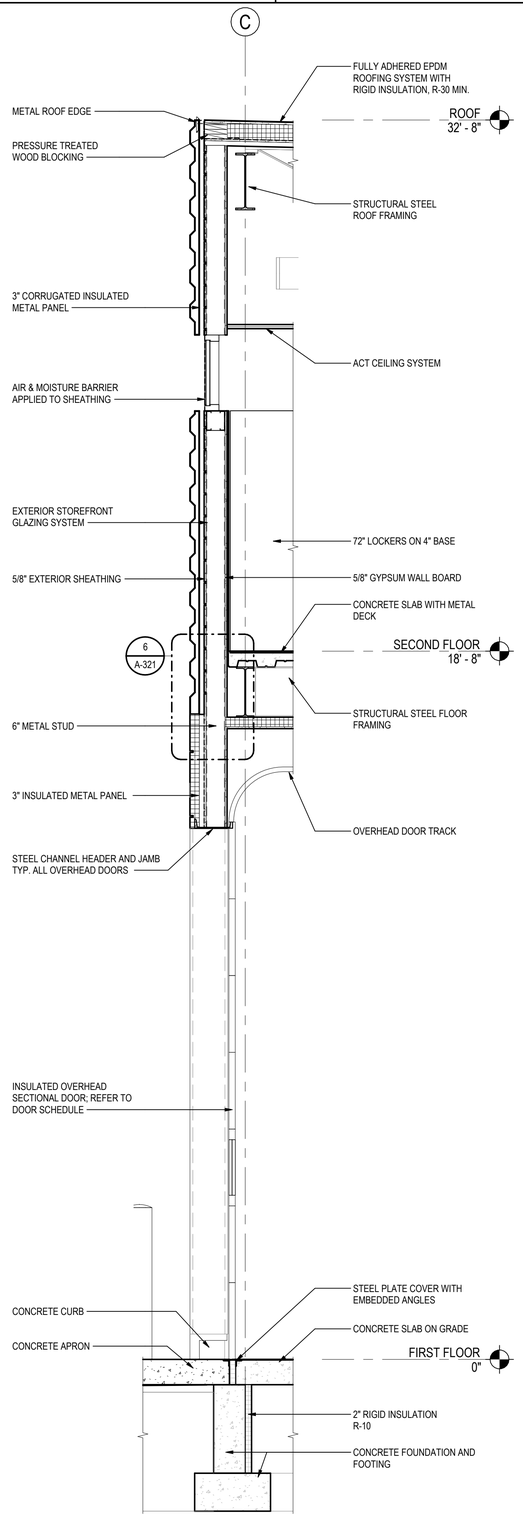
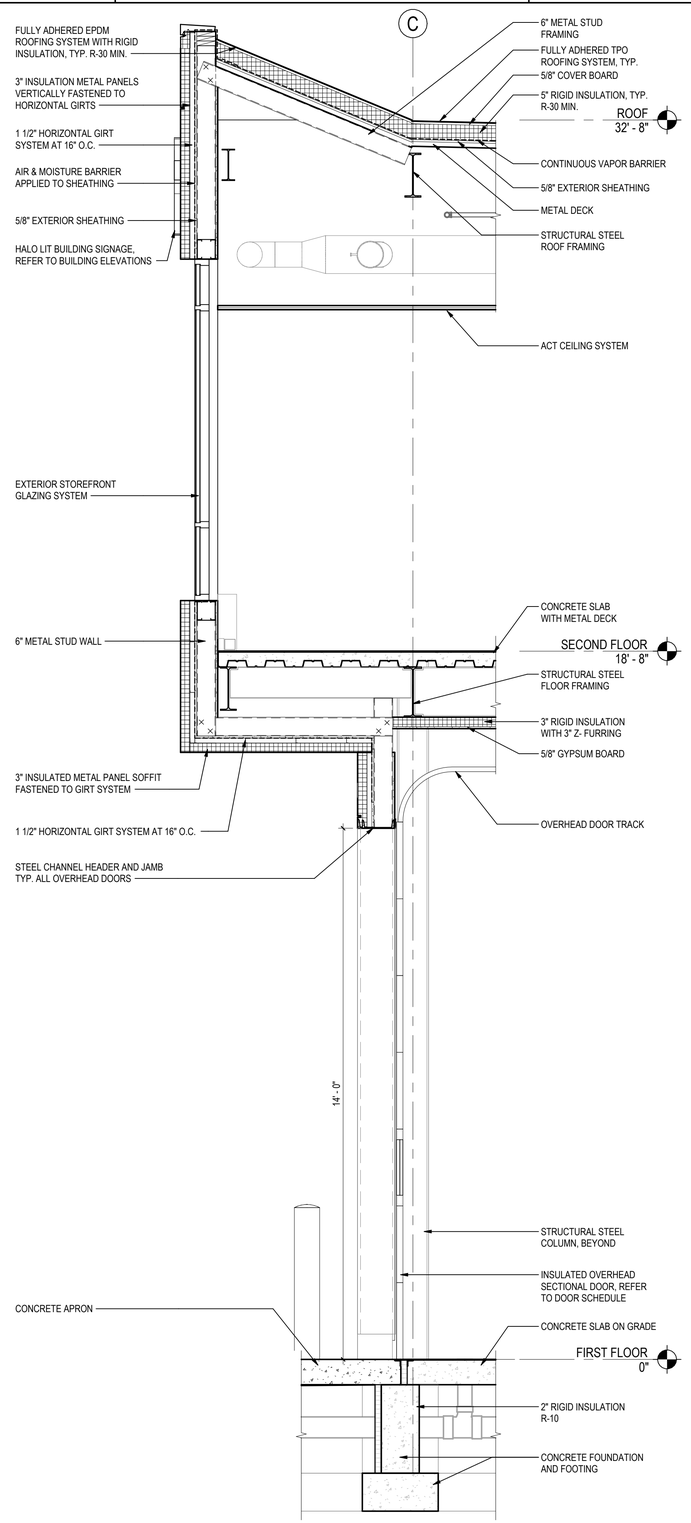
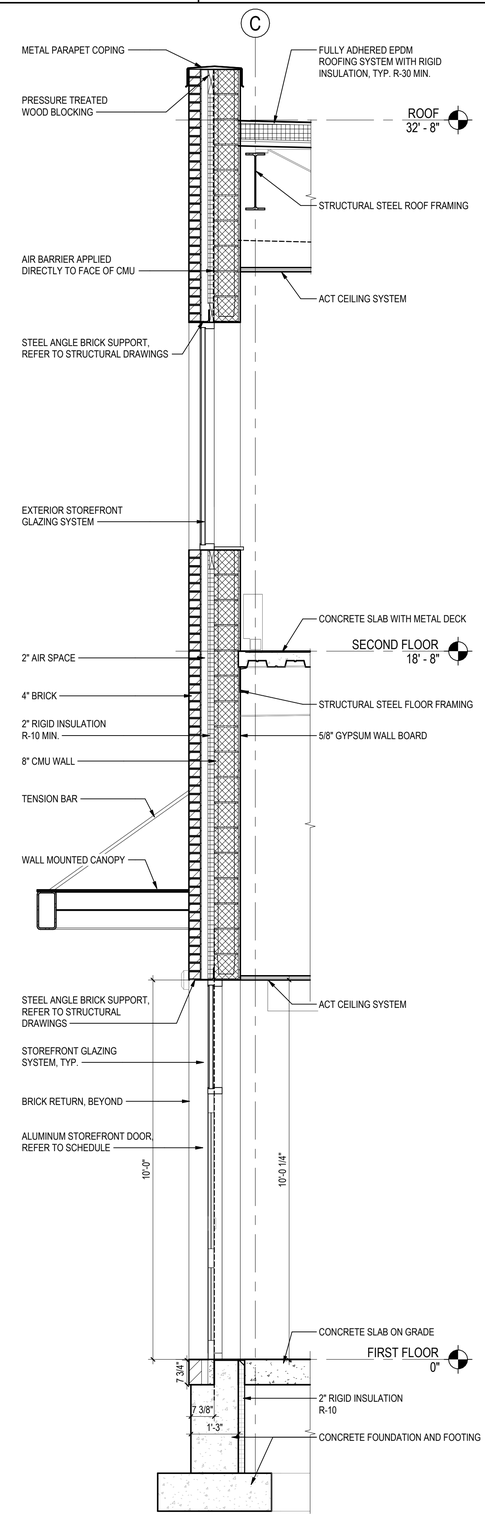


3 A-312 **WALL SECTION AT LOCKER ROOM**
1/2" = 1'-0"



2 A-312 **WALL SECTION AT SECOND FLOOR EXTENSION**
1/2" = 1'-0"



1 A-312 **WALL SECTION AT STOREFRONT ENTRY**
1/2" = 1'-0"

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Issued	By	Appd	YYYY.MM.DD
	CVR	THC	AJP	2020.12.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT THOMAS HENRY OSTERLE 022550 STATE OF NEW YORK

Client/Project Logo

16 60 19 04 CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
WALL SECTIONS

Project No.
192311093

Scale
1/2" = 1'-0"

Date
2020.12.11

Drawing No.
A-312

BM 360
BM 1200
BM 2004.4.04-20 PM

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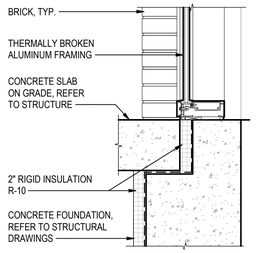
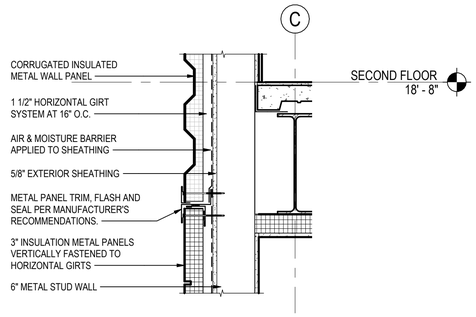
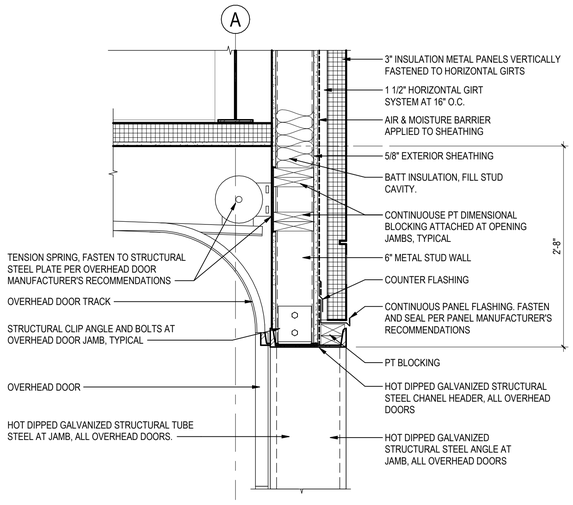




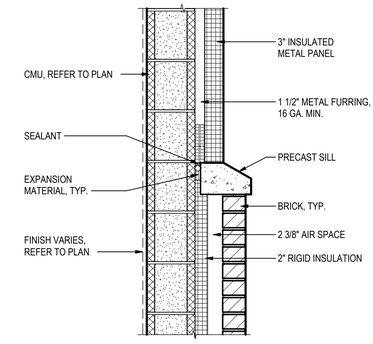


1 A-321 TYPICAL OVERHEAD DOOR HEAD DETAIL

1" = 1'-0"

7 A-321 TYPICAL GLAZING HEAD DETAIL

1" = 1'-0"

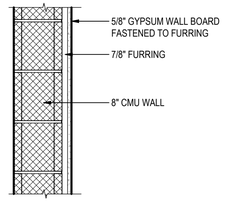


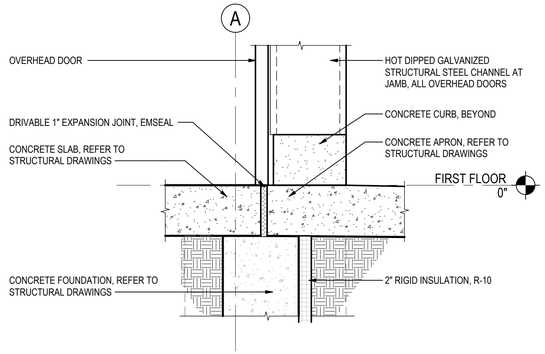
2 A-321 TYPICAL WATERTABLE DETAIL

1" = 1'-0"

6 A-321 INSULATED METAL PANEL TRANSITION DETAIL

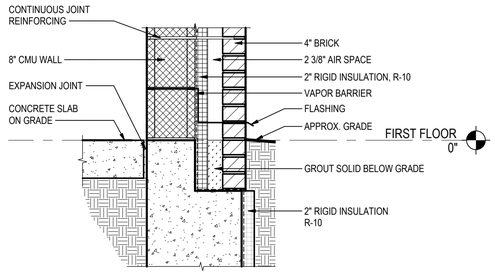
1" = 1'-0"





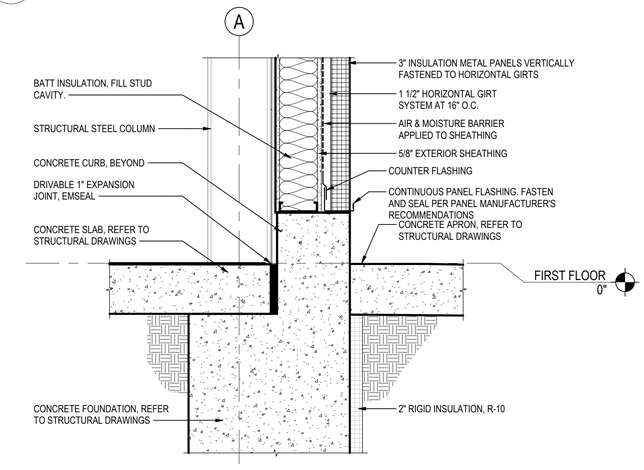
4 A-321 TYPICAL OVERHEAD DOOR SILL DETAIL

1" = 1'-0"



5 A-321 TYPICAL CMU BASE DETAIL

1" = 1'-0"



8 A-321 TYPICAL FOUNDATION AT PIER

1" = 1'-0"

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT THOMAS HENRY CASEY JR. 030250 STATE OF NEW YORK

Client/Project Logo

16 60 19 04 CITY OF RYE NY 1942

Client/Project

CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title

SECTION DETAILS

Project No.	Scale
192311093	1" = 1'-0"
Date	Drawing No.
2020.12.11	A-321

BIM 360
#:\192311093\2024-04-23 PM.

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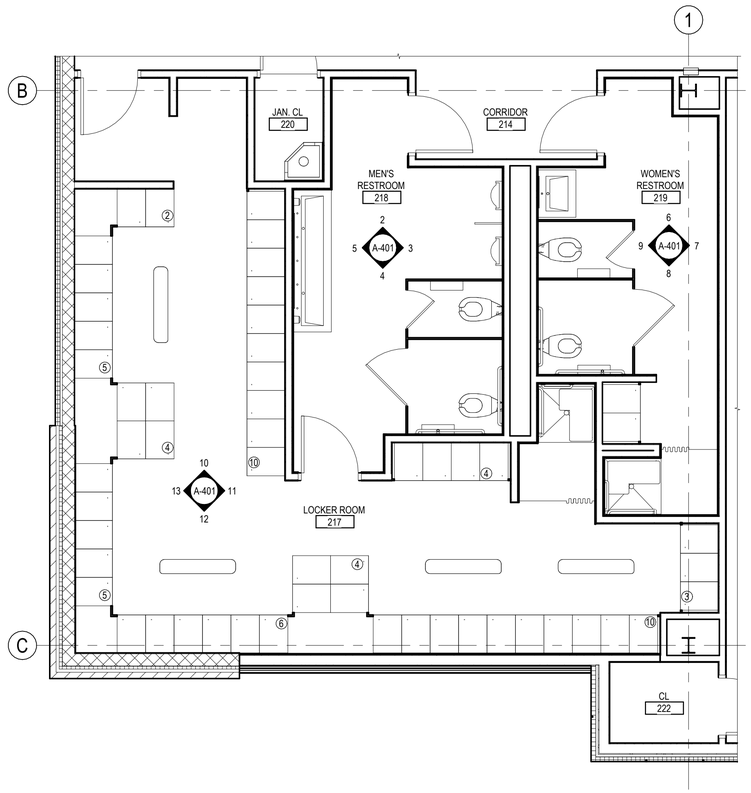
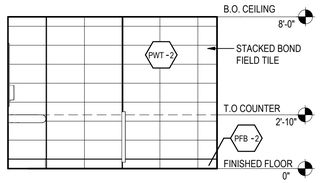
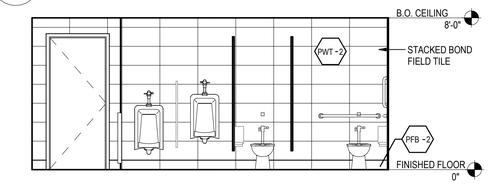


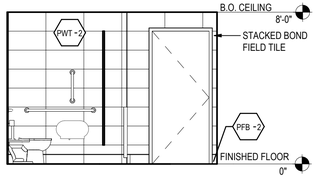
1 ENLARGED RESTROOM AND LOCKER ROOM PLAN
A-401 — 1/4" = 1'-0"



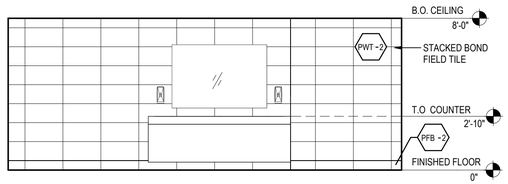
2 MEN'S RESTROOM EAST ELEV.
A-401 — 1/4" = 1'-0"



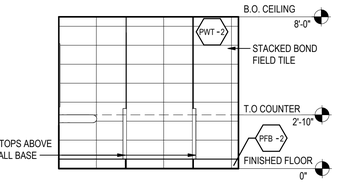
3 MEN'S RESTROOM - SOUTH ELEV.
A-401 — 1/4" = 1'-0"



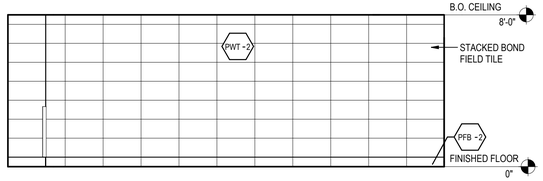
4 MEN'S RESTROOM - WEST ELEV.
A-401 — 1/4" = 1'-0"



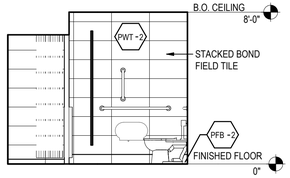
5 MEN'S RESTROOM - NORTH ELEV.
A-401 — 1/4" = 1'-0"



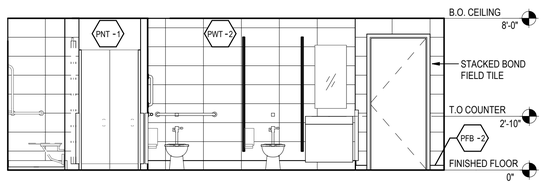
6 WOMEN'S RESTROOM - EAST ELEV.
A-401 — 1/4" = 1'-0"



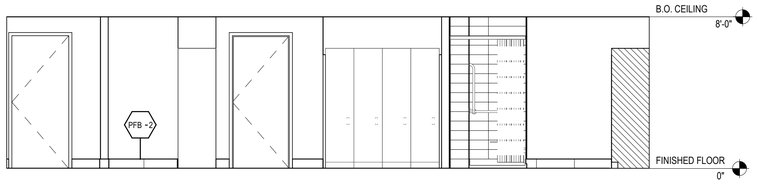
7 WOMEN'S RESTROOM - SOUTH ELEV.
A-401 — 1/4" = 1'-0"



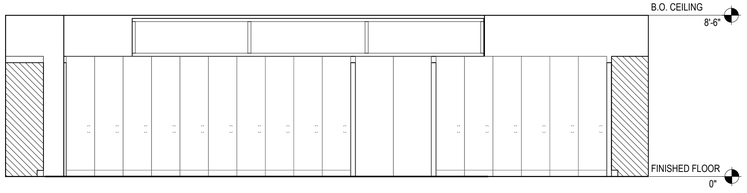
8 WOMEN'S RESTROOM - WEST ELEV.
A-401 — 1/4" = 1'-0"



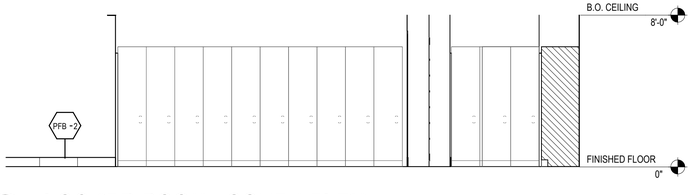
9 WOMEN'S RESTROOM - NORTH ELEV.
A-401 — 1/4" = 1'-0"



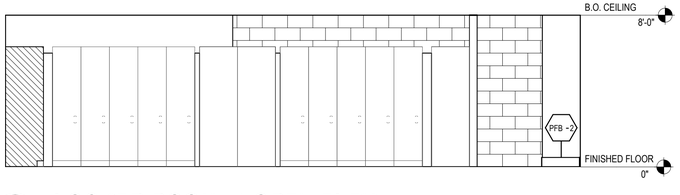
10 LOCKER ROOM - EAST ELEV.
A-401 — 1/4" = 1'-0"



12 LOCKER ROOM - WEST ELEV.
A-401 — 1/4" = 1'-0"



11 LOCKER ROOM - SOUTH ELEV.
A-401 — 1/4" = 1'-0"



13 LOCKER ROOM - NORTH ELEV.
A-401 — 1/4" = 1'-0"

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	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Permit/Seal

Client/Project Logo

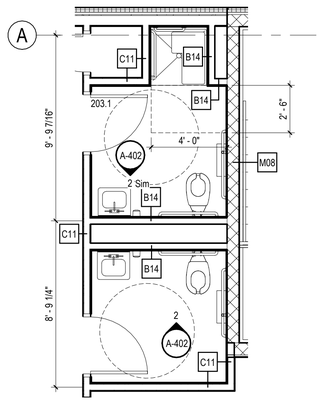
CITY OF RYE

DPW ADMIN BUILDING

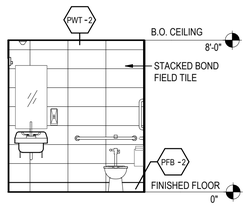
DISBROW PARK
RYE, NY 10580

Title
ENLARGED PLAN AND ELEVATIONS

Project No.	Scale
192311093	1/4" = 1'-0"
Date	Drawing No.
2020.12.11	A-401



1 ENLARGED RESTROOM PLAN
A-402 — 1/4" = 1'-0"



2 TYPICAL RESTROOM ELEV.
A-402 — 1/4" = 1'-0"

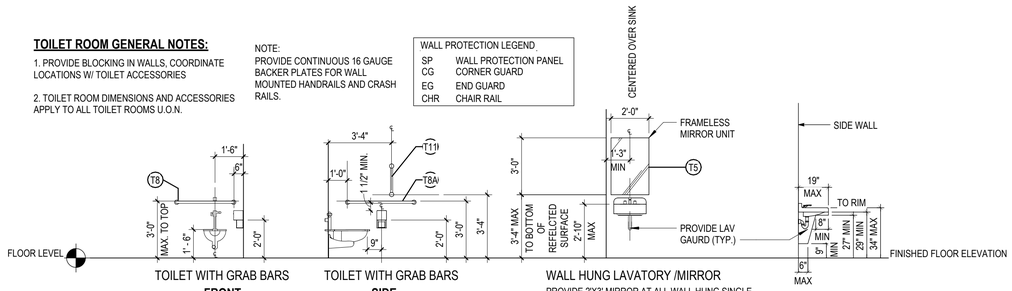
TOILET ROOM GENERAL NOTES:

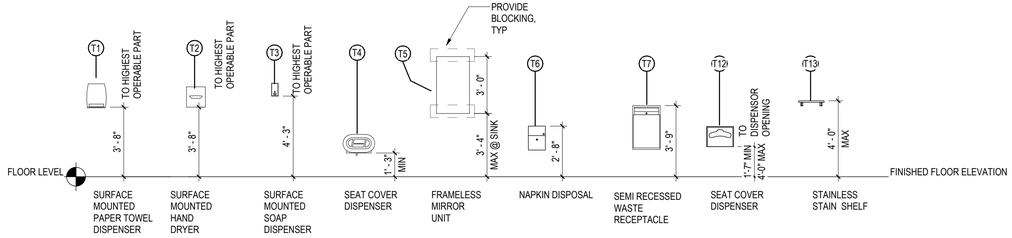
1. PROVIDE BLOCKING IN WALLS, COORDINATE LOCATIONS W/ TOILET ACCESSORIES

2. TOILET ROOM DIMENSIONS AND ACCESSORIES APPLY TO ALL TOILET ROOMS U.O.N.

NOTE:
PROVIDE CONTINUOUS 16 GAUGE BACKER PLATES FOR WALL MOUNTED HANDRAILS AND CRASH RAILS.

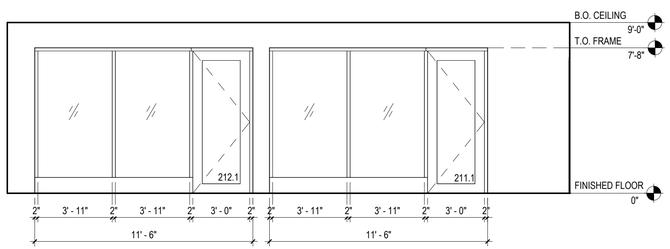
WALL PROTECTION LEGEND	
SP	WALL PROTECTION PANEL
CG	CORNER GUARD
EG	END GUARD
CHR	CHAIR RAIL



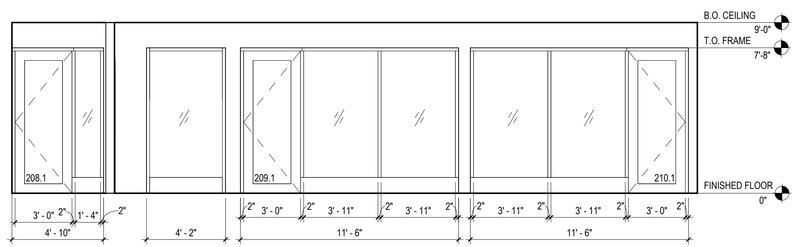


3 VESTIBULE - TRANSACTION COUNTER ELEV.
A-402 — 1/4" = 1'-0"

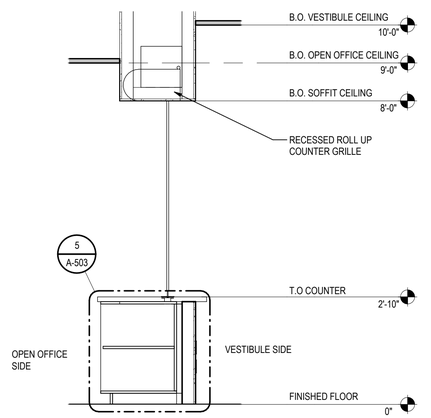
4 VESTIBULE - TRANSACTION COUNTER ELEV.
A-402 — 1/4" = 1'-0"



5 OPEN OFFICE - EAST ELEV.
A-402 — 1/4" = 1'-0"



6 OPEN OFFICE - WEST ELEV.
A-402 — 1/4" = 1'-0"



7 TRANSACTION COUNTER SECTION
A-402 — 1/2" = 1'-0"

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Permit/Seal

Client/Project Logo

CITY OF RYE

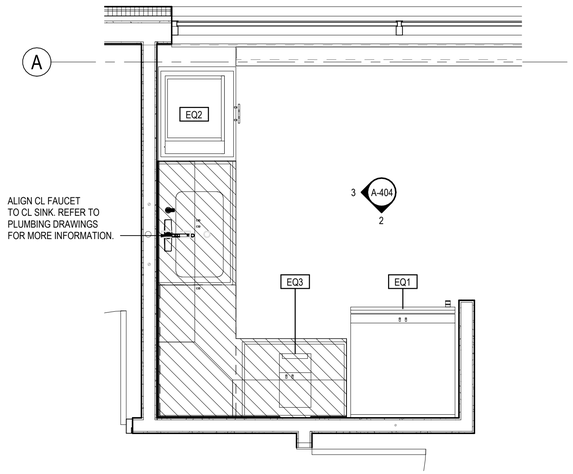
DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
ENLARGED PLANS AND ELEVATIONS

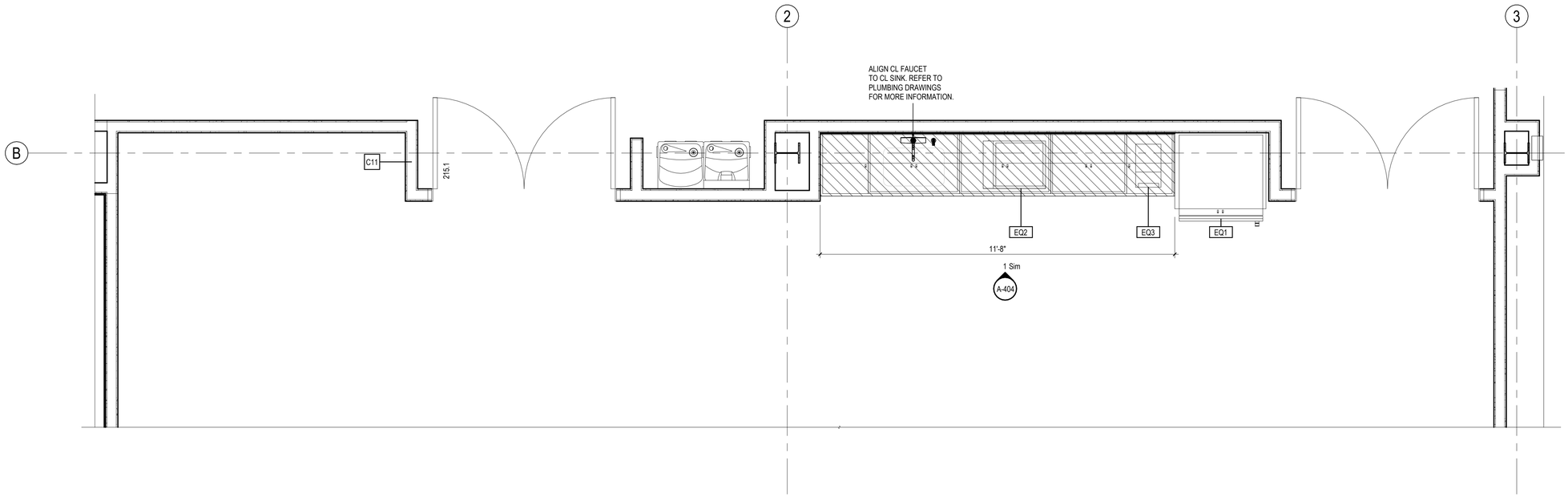
Project No.	Scale
192311093	As indicated
Date	Drawing No.
2020.12.11	A-402

PLOT DATE: 2024.4.04 4:25 PM
ORIGINAL SHEET - ANSI D



2 ENLARGED KITCHENETTE PLAN

A-403 1/2" = 1'-0"



1 ENLARGED MULTIPURPOSE MEETING ROOM PLAN

A-403 1/2" = 1'-0"

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Permit/Seal

REGISTERED ARCHITECT
THOMAS HENRY CASTELLANI
022550
STATE OF NEW YORK

Client/Project Logo

16|60 19|04
CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
ENLARGED BREAKROOM PLANS

Project No.
192311093

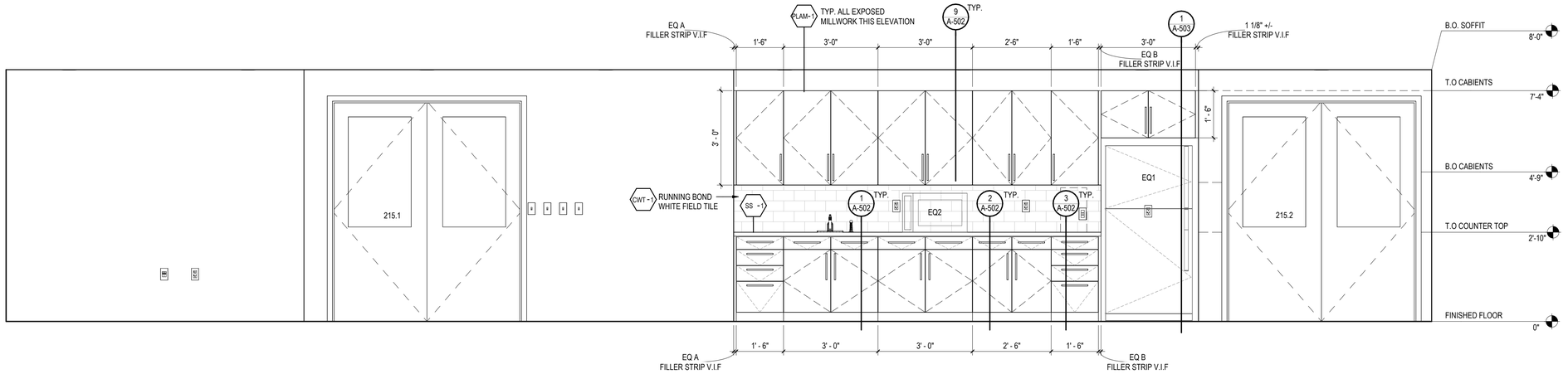
Scale
1/2" = 1'-0"

Date
2020.12.11

Drawing No.
A-403

Plot Date/Time: 9/12/2024 4:04:25 PM

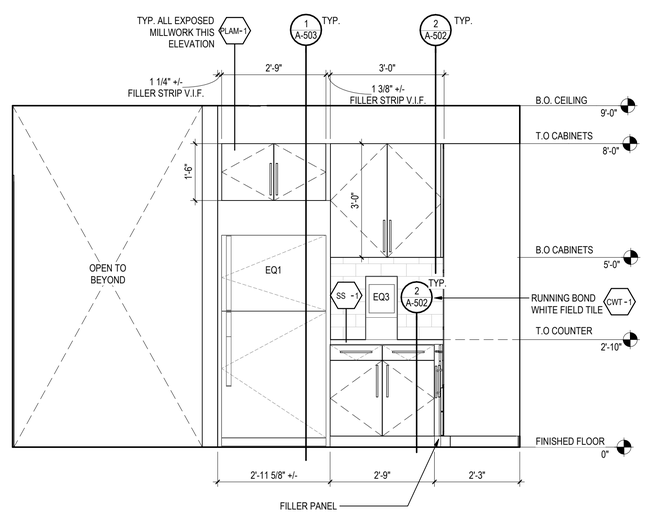
ORIGINAL SHEET - ANSI D



1 MULTIPURPOSE ROOM - EAST ELEV.

A-404

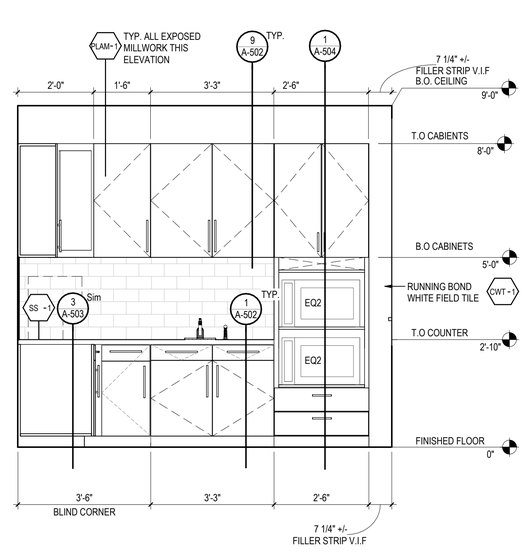
1/2" = 1'-0"



2 KITCHENETTE - WEST ELEV.

A-404

1/2" = 1'-0"



3 KITCHENETTE - NORTH ELEV.

A-404

1/2" = 1'-0"

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	JK	THC	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	CVR	THC	AJP	2020.12.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

CITY OF RYE

Client/Project

CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title

ENLARGED BREAKROOM ELEVATIONS

Project No.	Scale
192311093	1/2" = 1'-0"
Date	Drawing No.
2020.12.11	A-404

Plot: 5/20
8/31/2024 4:04:06 PM

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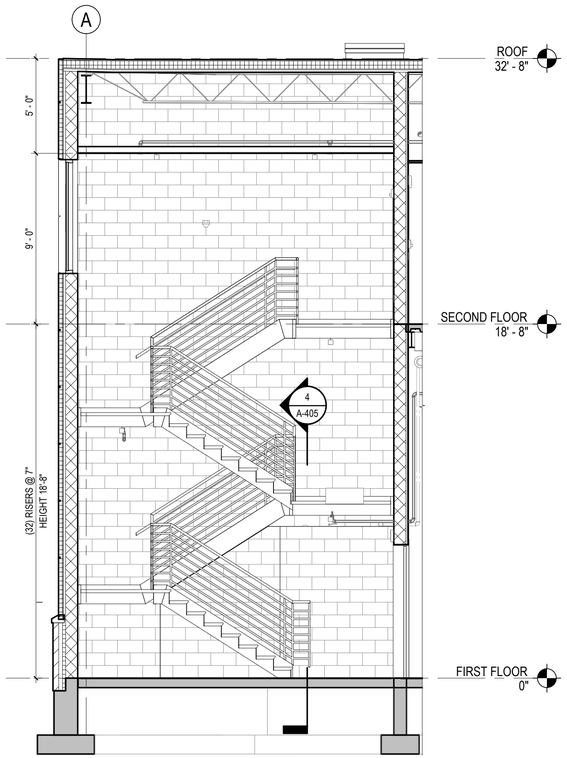
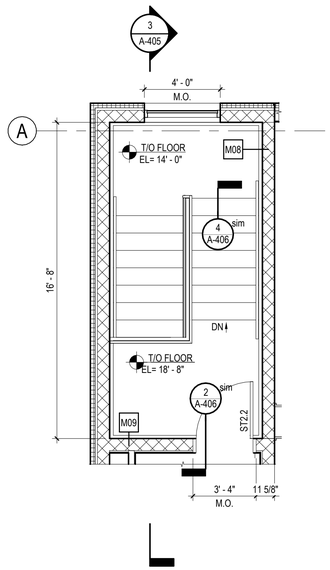


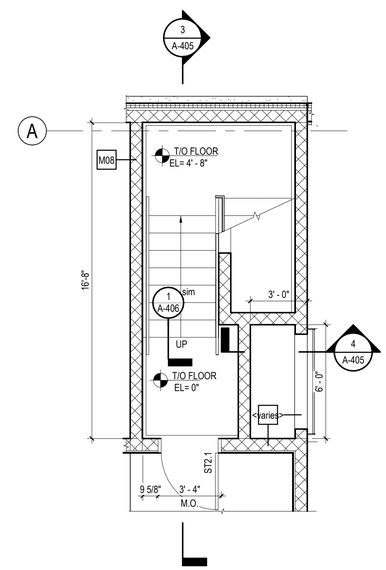
3 A-405 STAIR TOWER SECTION

1/4" = 1'-0"



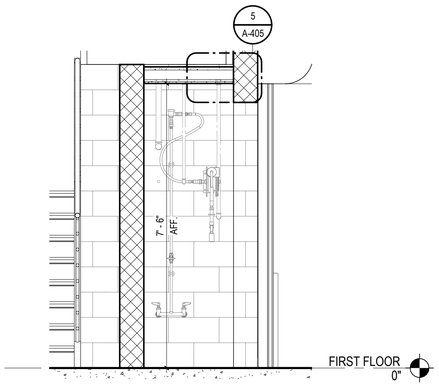
2 A-405 ENLARGED SECOND FLOOR STAIR-2 PLAN

1/4" = 1'-0"



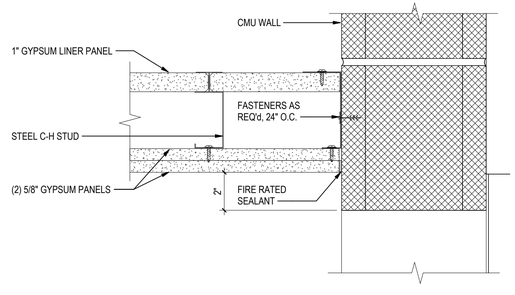
1 A-405 ENLARGED FIRST FLOOR STAIR-2 PLAN

1/4" = 1'-0"



4 A-405 WALL SECTION

1/2" = 1'-0"



5 A-405 2 HR. RATED CEILING DTAIL

3" = 1'-0"

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project Logo

CITY OF RYE

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
STAIR PLANS & SECTIONS

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2020.12.11	A-405

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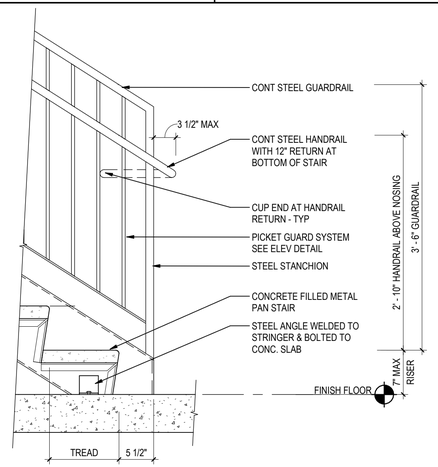
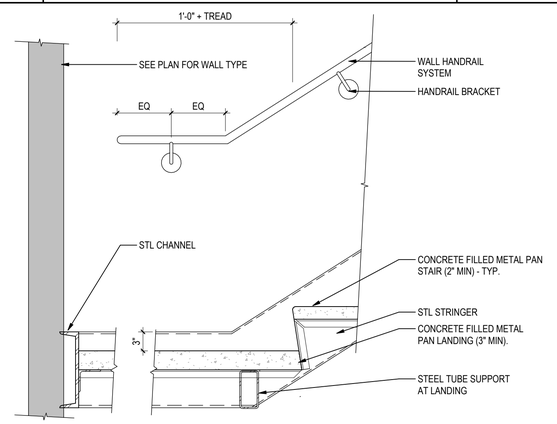
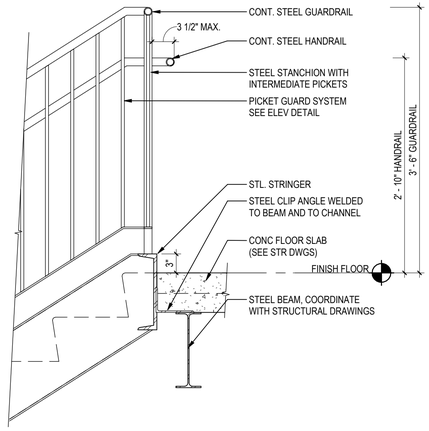
ORIGINAL SHEET - ANSI D



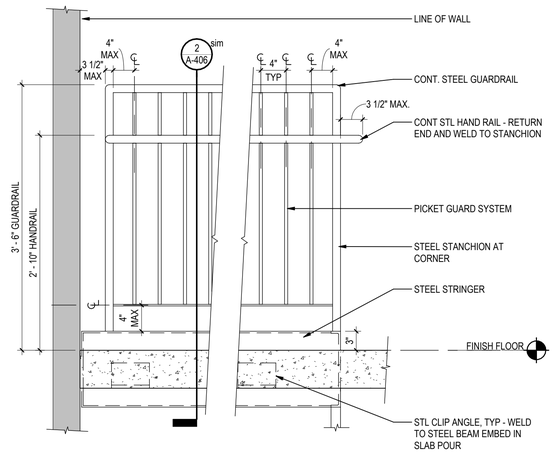
1 TYPICAL STAIR BASE DETAIL
A-406 — 1" = 1'-0"



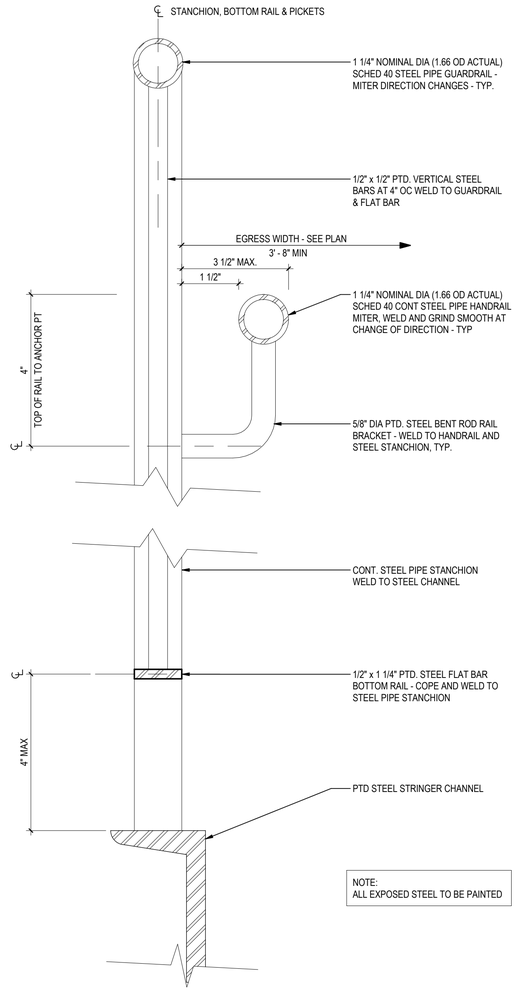
4 TYPICAL INTERMEDIATE LANDING DETAIL
A-406 — 1" = 1'-0"



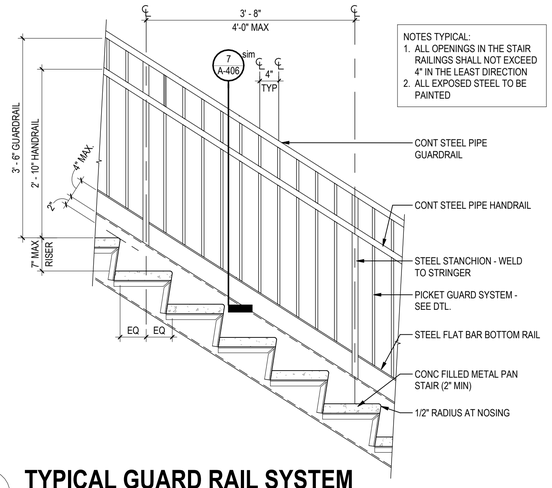
2 TYPICAL FLOOR LANDING DETAIL
A-406 — 1" = 1'-0"



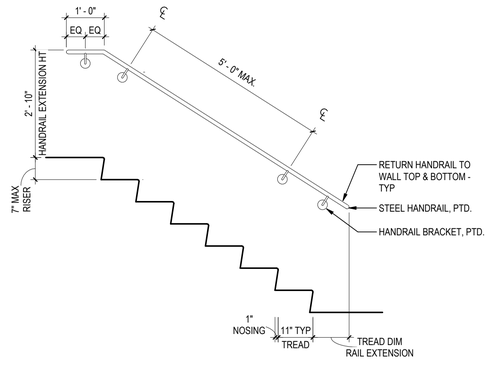
5 TYPICAL GUARDRAIL AT TOP LANDING
A-406 — 1" = 1'-0"



7 TYPICAL SECTION AT GUARDRAIL
A-406 — 6" = 1'-0"



3 TYPICAL GUARD RAIL SYSTEM
A-406 — 3/4" = 1'-0"



6 TYP WALL RAIL DIAGRAM
A-406 — 1/2" = 1'-0"

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
STAIR DETAILS

Project No.	Scale
192311093	As indicated
Date: 2020.12.11	Drawing No. A-406

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8/13/2024 4:04:28 PM
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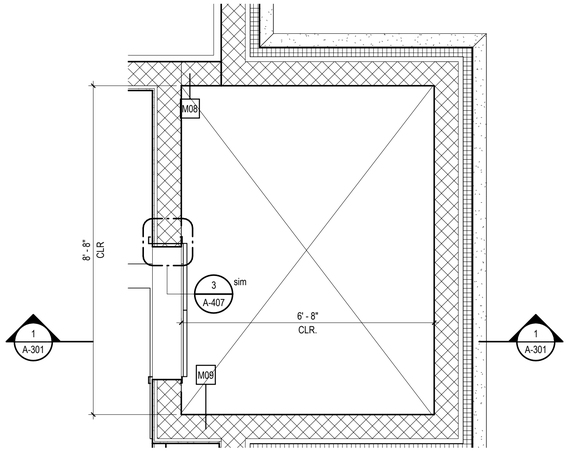
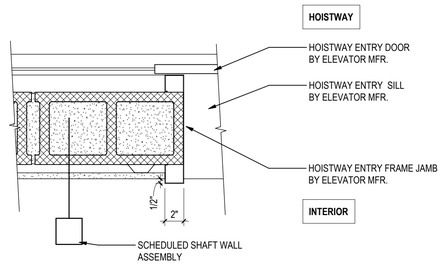
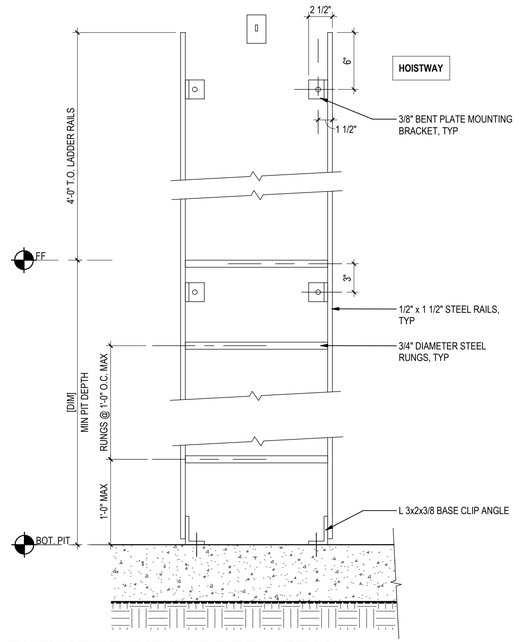


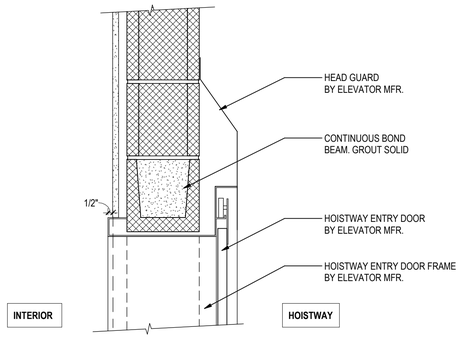
1 ELEVATOR PLAN
A-407 — 1/2" = 1'-0"



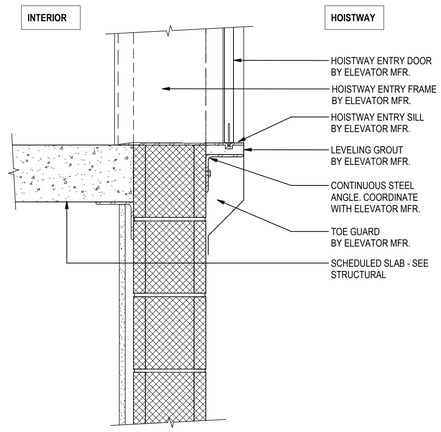
3 HOISTWAY ENTRY JAMB @ CMU WALL
A-407 — 1 1/2" = 1'-0"



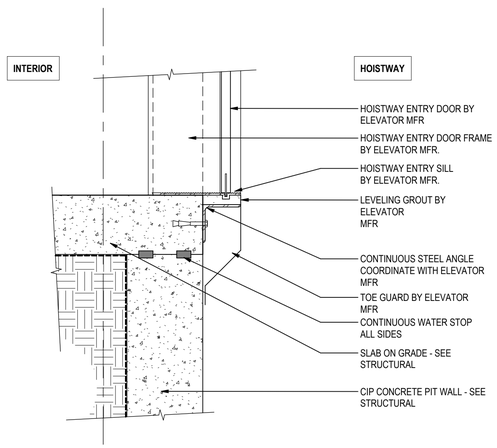
5 ELEVATOR PIT LADDER DETAIL
A-407 — 1 1/2" = 1'-0"



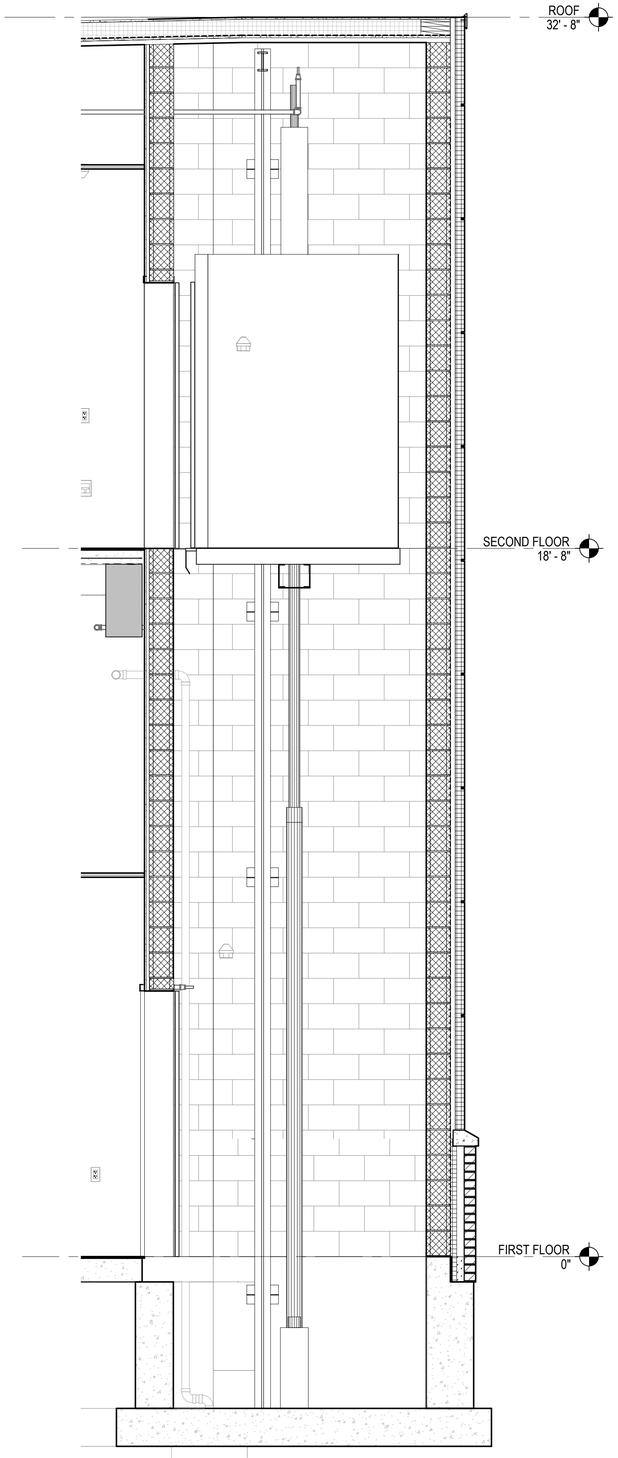
2 HOISTWAY ENTRY HEAD @ CMU WALL
A-407 — 1 1/2" = 1'-0"



4 HOISTWAY ENTRY SILL @ CMU WALL
A-407 — 1 1/2" = 1'-0"



6 HOISTWAY ENTRY SILL @ GRND LEVEL
A-407 — 1 1/2" = 1'-0"



7 ELEVATOR SECTION
A-407 — 1/2" = 1'-0"

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
ELEVATOR PLAN, SECTION, & DETAILS

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2020.12.11	A-407

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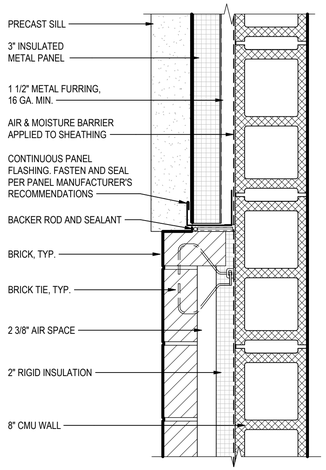
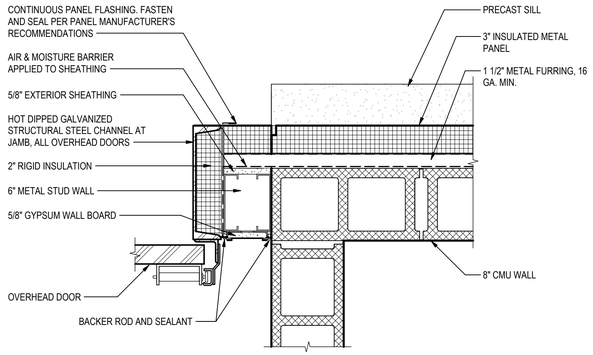
2/17/2024 4:04:29 PM

ORIGINAL SHEET - ANSI D



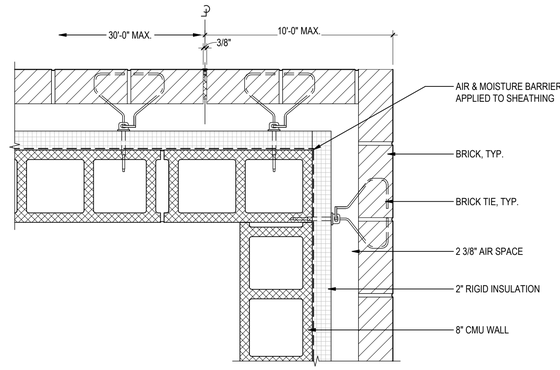
3 BRICK TO IMP TRANSITION

A-421 — 1 1/2" = 1'-0"



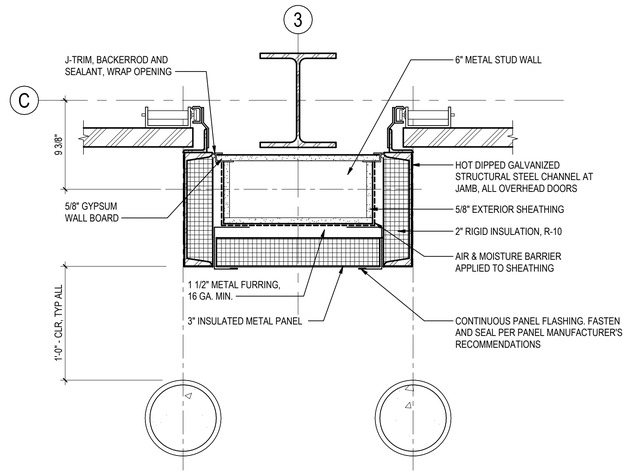
4 OVERHEAD JAMB DETAIL

A-421 — 1 1/2" = 1'-0"



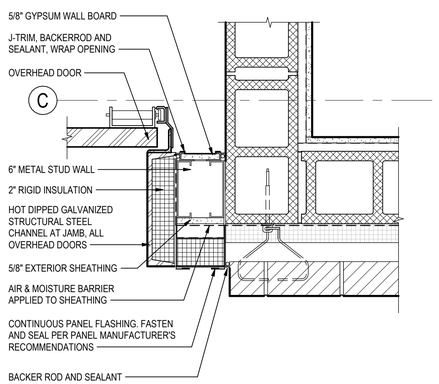
5 TYPICAL CONTROL JOINT AT CORNER - OUTSIDE CONDITION

A-421 — 1 1/2" = 1'-0"



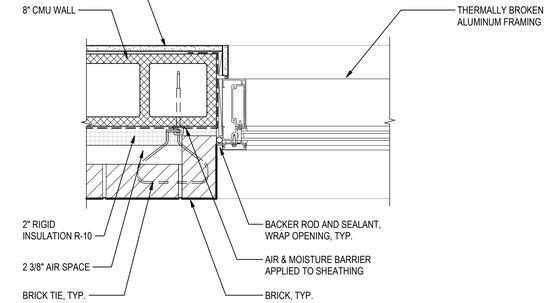
1 TYPICAL PIER DETAIL

A-421 — 1 1/2" = 1'-0"



2 INSULATED METAIL PANEL TO BRICK WALL TRANSITION DETAIL

A-421 — 1 1/2" = 1'-0"



6 TYPICAL WINDOW JAMB DETAIL AT BRICK VENEER

A-421 — 1 1/2" = 1'-0"

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ISSUE FOR BID	JK	THC	2024.09.12

Issued	By	Appd	YYYY.MM.DD
	Author	Designer	Checker	06/19/24
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT THOMAS HENRY CASTELLI 022350 STATE OF NEW YORK

Client/Project Logo

CITY OF RYE NY 1942 1660 1904

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
PLAN DETAILS

Project No.
192311093

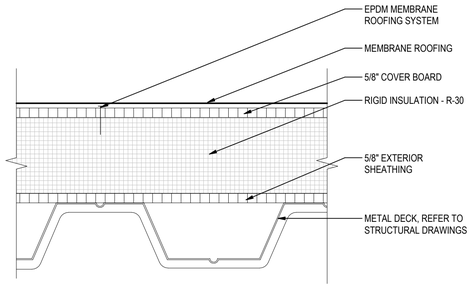
Scale
1 1/2" = 1'-0"

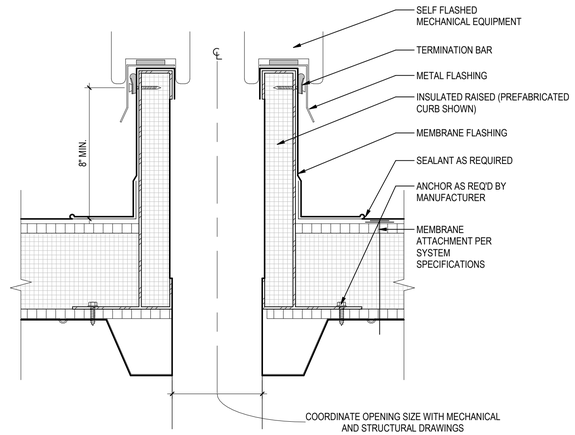
Date
06/19/24

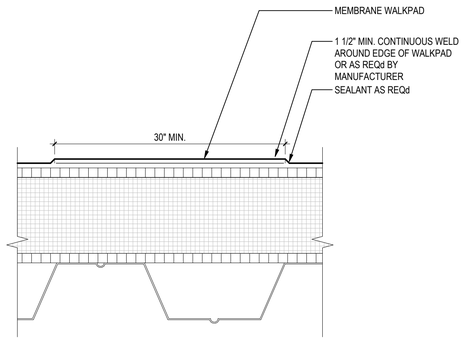
Drawing No.
A-421

Rev 100
6/17/2024 4:04:31 PM

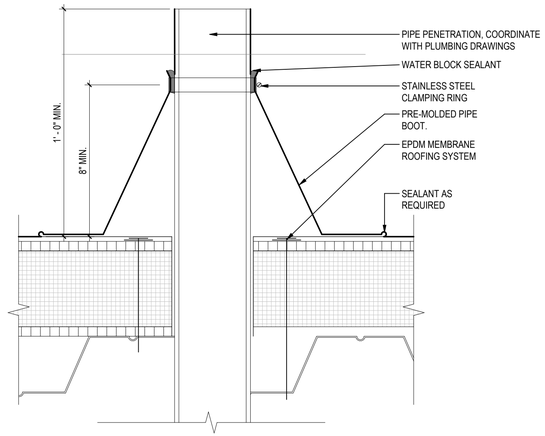
ORIGINAL SHEET - ANSI D



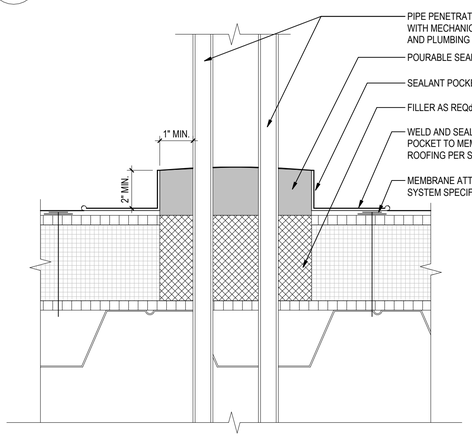




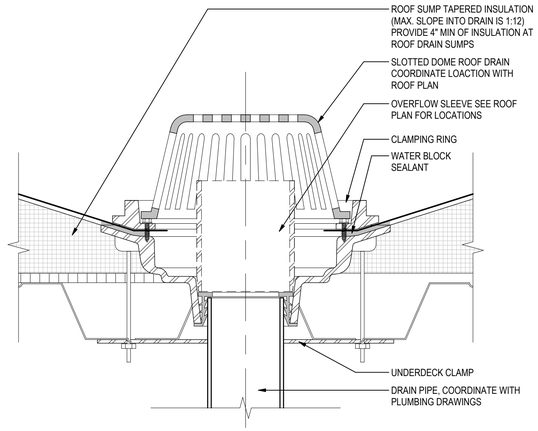
1 TYPICAL EPDM MEMBRANE ROOF SYSTEM DETAIL
A-501 — 3" = 1'-0"



2 TYPICAL EQUIPMENT ROOF CURB DETAIL
A-501 — 3" = 1'-0"



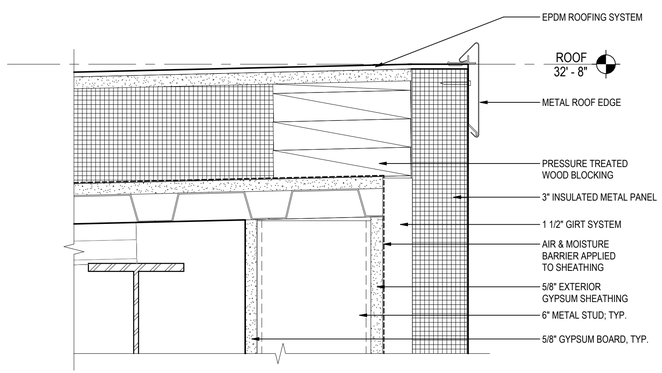
3 TYPICAL WALKWAY PAD DETAIL
A-501 — 3" = 1'-0"



4 TYPICAL ROOF PIPE PENTRATION DETAIL
A-501 — 3" = 1'-0"

5 TYPICAL MEMBRANE PITCH POCKET DETAIL
A-501 — 3" = 1'-0"

6 TYPICAL ROOF DRAIN DETAIL
A-501 — 3" = 1'-0"



7 TYPICAL ROOF EDGE DETAIL
A-501 — 3" = 1'-0"

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
TYPICAL ROOF DETAILS

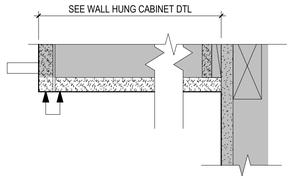
Project No.
192311093

Scale
3" = 1'-0"

Date
2020.12.11

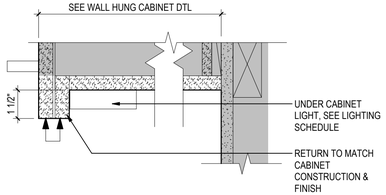
Drawing No.
A-501

HARDWARE NOTE: CABIENT DOOR AND DRAWER PULLS TO BE 9" STAINLESS STEEL PULLS. MOCKETT DP105A/9 OR EQUAL.



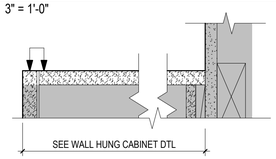
12 A-502 MLWK - WALL HUNG DR SILL

3" = 1'-0"



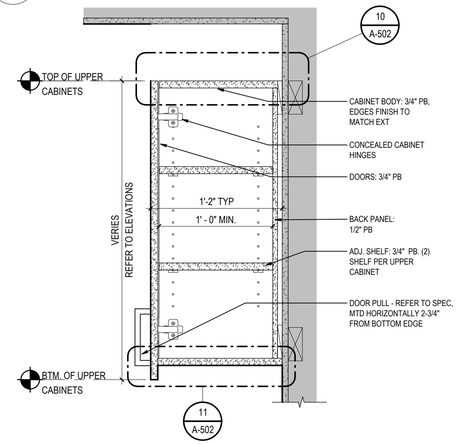
11 A-502 MLWK - WALL HUNG DR SILL W/ LIGHT

3" = 1'-0"



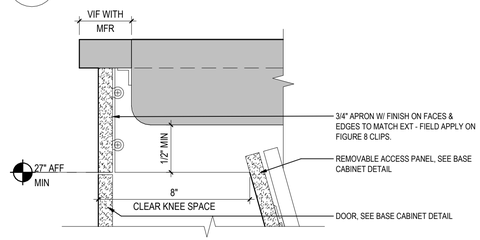
10 A-502 MLWK - WALL HUNG DR HEAD

3" = 1'-0"



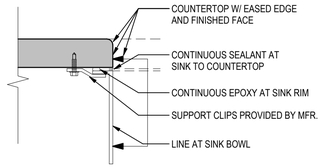
9 A-502 MLWK - WALL HUNG DR BELOW CEILING

1 1/2" = 1'-0"



8 A-502 MLWK - ADA SINK APRON DTL

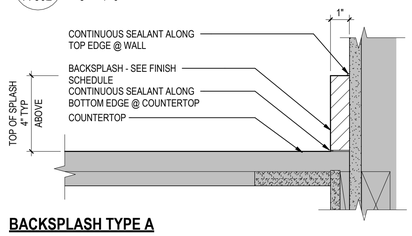
3" = 1'-0"



TYPICAL UNDERMOUNT SINK

7 A-502 SINK @ COUNTERTOP EDGE UNDERMOUNT SINK

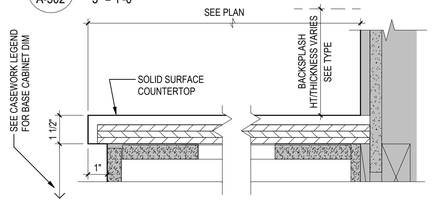
3" = 1'-0"



BACKSPLASH TYPE A

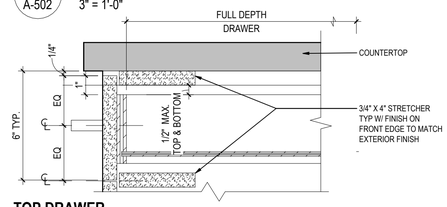
6 A-502 COUNTER TOP BACK SPLASH TYPES

3" = 1'-0"

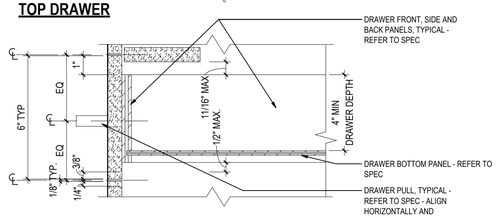


5 A-502 SOLID SURFACE COUNTER TOP DETAIL

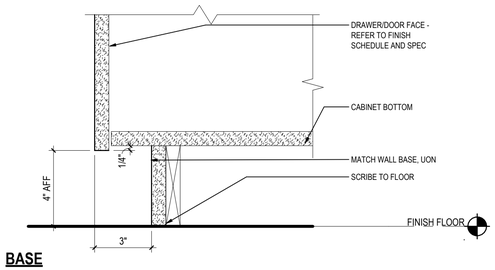
3" = 1'-0"



TOP DRAWER



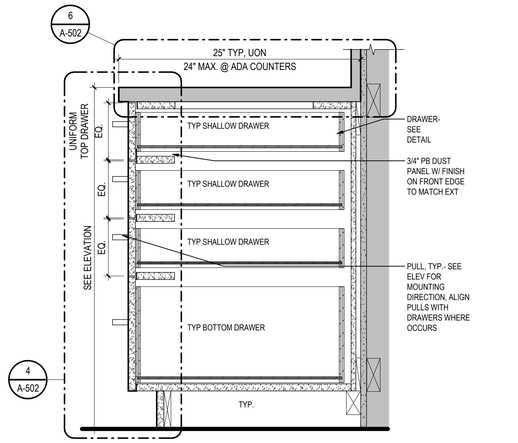
TYPICAL DRAWER



BASE

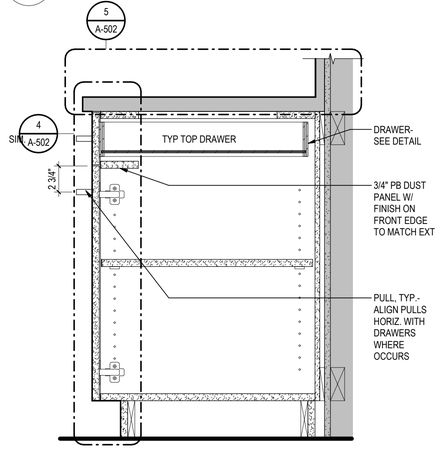
4 A-502 MLWK - BASE CABINET TYP FRONT DTL

3" = 1'-0"



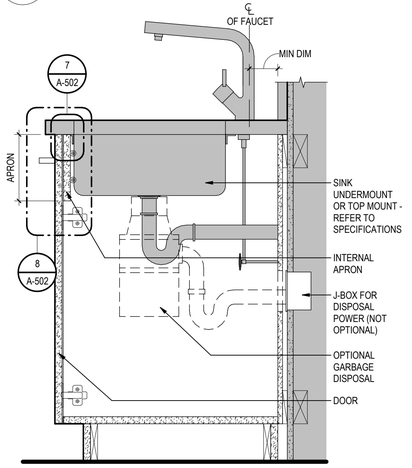
3 A-502 MLWK - BASE CABINET 5 DWR

1 1/2" = 1'-0"



2 A-502 BASE CABINET WITH DOOR & DRAWER

1 1/2" = 1'-0"



1 A-502 BASE CABINET WITH SINK & DOOR

1 1/2" = 1'-0"

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	JK	THC	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	CVR	THC	2020.12.11
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT THOMAS HENRY CASTELLI 020250 STATE OF NEW YORK

Client/Project Logo

1660 1904 CITY OF RYE NY 1942

Client/Project

CITY OF RYE

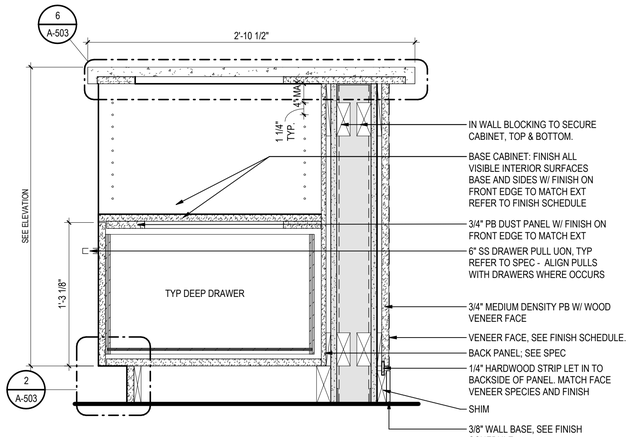
DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title

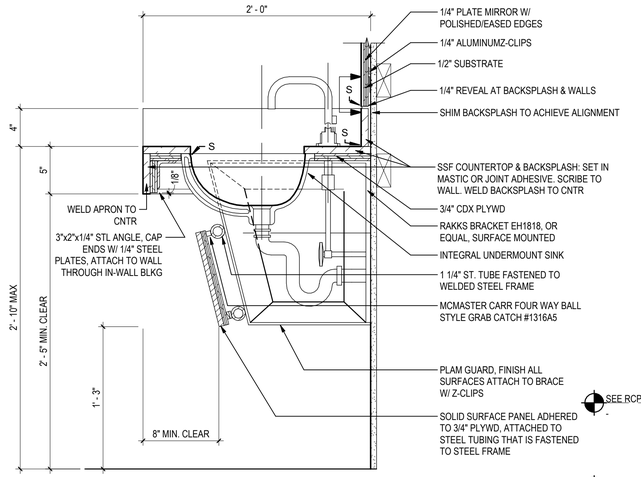
TYPICAL MILLWORK DETAILS

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2020.12.11	A-502



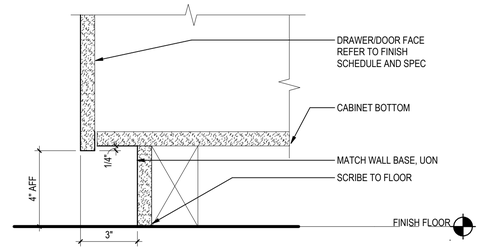
7 A-503 MLWK- BASE CAB W/ DWR AND OPEN SHV

1 1/2" = 1'-0"



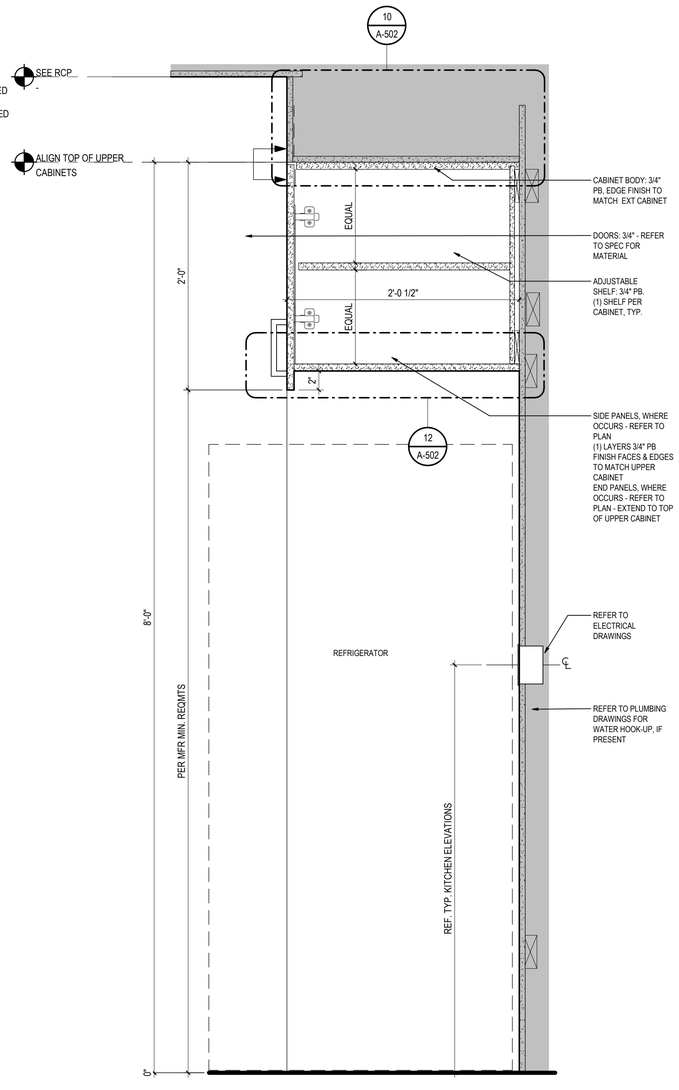
4 A-503 MLWK - VAN ACBL W/ SWING GUARD - SSF

1 1/2" = 1'-0"



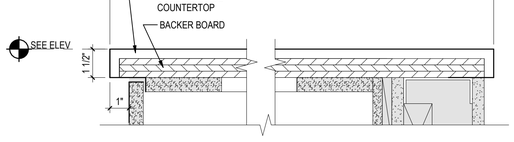
2 A-503 MLWK - BASE CAB TYP KICK

3" = 1'-0"



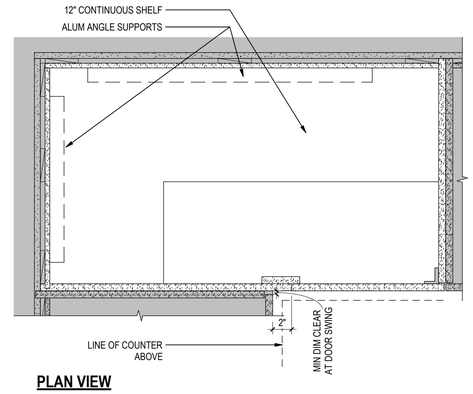
1 A-503 MLWK - WALL HUNG @ REFR

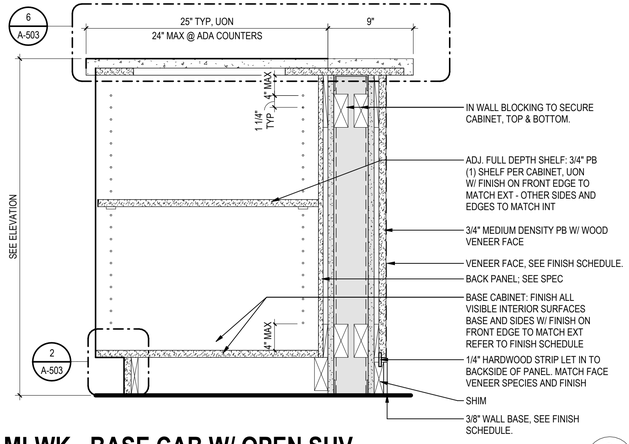
1 1/2" = 1'-0"



6 A-503 MLWK - CNTR - SSF

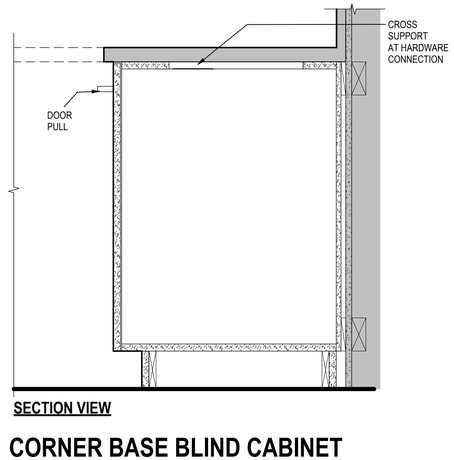
3" = 1'-0"





5 A-503 MLWK - BASE CAB W/ OPEN SHV

1 1/2" = 1'-0"



3 A-503 CORNER BASE BLIND CABINET

1 1/2" = 1'-0"

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ISSUE FOR BID	JK	THC	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	CVR	THC	AJP	2020.12.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT THOMAS HENRY CASPERSEN 020250 STATE OF NEW YORK

Client/Project Logo

16160 19104 CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
TYPICAL MILLWORK DETAILS

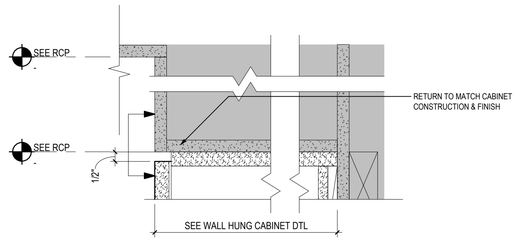
Project No.
192311093

Scale
As indicated

Date
2020.12.11

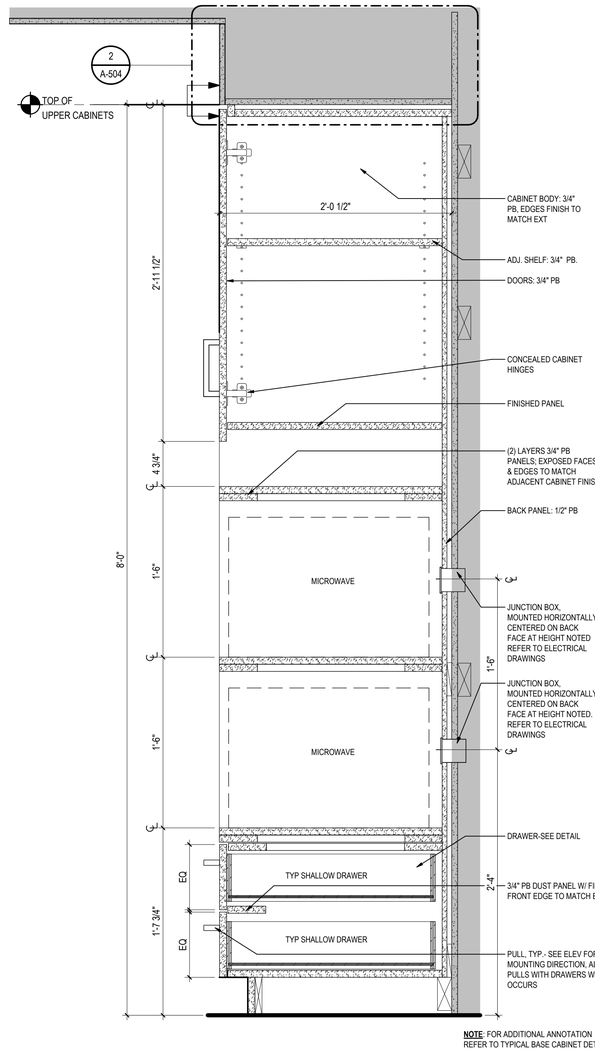
Drawing No.
A-503

BIM 360
2021.2.0.0024 4:04:03 PM
ORIGINAL SHEET - ANSI D



2 A-504 MLWK - WALL HUNG DR HEAD FLUSH_

3" = 1'-0"



1 A-504 MLWK - MICROWAVE TOWER_

1 1/2" = 1'-0"

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	CVR	THC	A.JP	2020.12.11
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

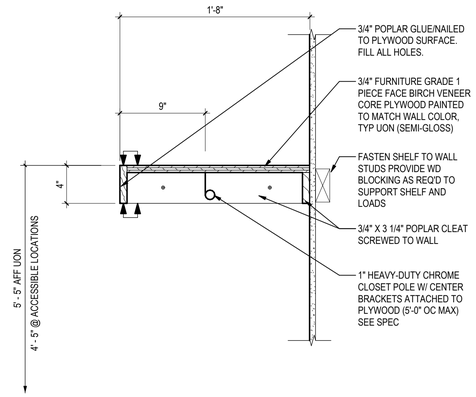
DISBROW PARK
RYE, NY 10580

Title
TYPICAL MILLWORK DETAILS

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2020.12.11	A-504

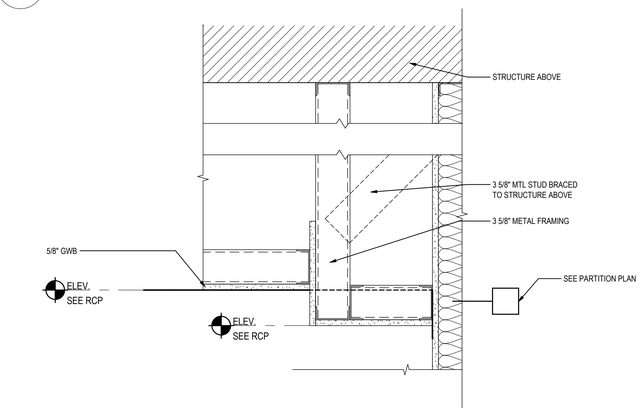
BIM 360
8/7/2024 4:04:34 PM

ORIGINAL SHEET - ANSI D



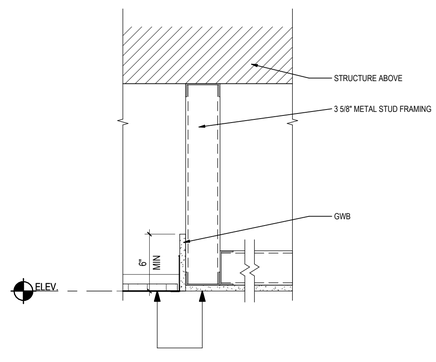
3 A-505 CLOSET SHELF & POLE

1 1/2" = 1'-0"



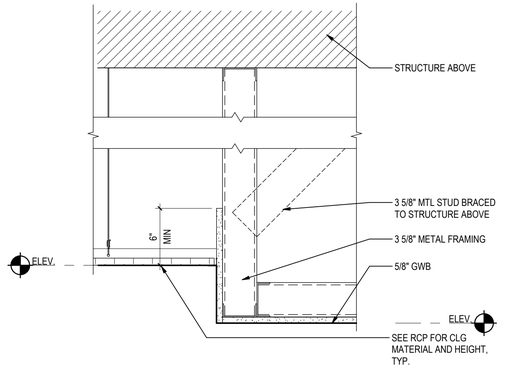
2 A-505 GWB/GWB_

1 1/2" = 1'-0"



4 A-505 GWB/ACT TRANSITION @ SAME HEIGHT _

1 1/2" = 1'-0"



1 A-505 ACT/GWB CEILING TRANSITION

1 1/2" = 1'-0"

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Permit/Seal

Client/Project Logo

16 60 19 04
CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
ARCHITECTURAL & CEILING DETAILS

Project No.	Scale
192311093	1 1/2" = 1'-0"
Date	Drawing No.
2020.12.11	A-505

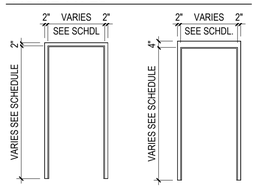
DOOR SCHEDULE

No.	Room Name	Rm. No.	Door: Clear Dim. Width	Door: Clear Dim. Height	Door: No. of Panels	Door: Panel Widths 1	Door: Panel Widths 2	Door: Thickness	Door: Type	Door: Mat'l	Door: Finish	Door: HDWR Set	Frame: Type	Frame: Mat'l	Frame: Finish	Opening: Fire Label	Opening: Glaz	Comments
FIRST FLOOR																		
101.1	VESTIBULE	101	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	FLD	ALUM	FF	1	-	ALUM	FF	-	•	ALUMINUM STOREFRONT
102.1	LOBBY	102	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	FLD	ALUM	FF	2	-	ALUM	FF	-	•	ALUMINUM STOREFRONT
102.2	GARAGE	103	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	NL	HM	PNT	3	2	HM	PNT	60 MIN	•	
103.1	GARAGE	103	22' - 0"	14' - 0"	-	0"	0' - 0"	2"	OVHD	STL	-	-	-	STL	-	-	•	INSULATED
103.2	GARAGE	103	22' - 0"	14' - 0"	-	0"	0' - 0"	2"	OVHD	STL	-	-	-	STL	-	-	•	INSULATED
103.3	GARAGE	103	22' - 0"	14' - 0"	-	0"	0' - 0"	2"	OVHD	STL	-	-	-	STL	-	-	•	INSULATED
103.4	GARAGE	103	22' - 0"	14' - 0"	-	0"	0' - 0"	2"	OVHD	STL	-	-	-	STL	-	-	•	INSULATED
103.5	GARAGE	103	22' - 0"	14' - 0"	-	0"	0' - 0"	2"	OVHD	STL	-	-	-	STL	-	-	•	INSULATED
103.6	GARAGE	103	22' - 0"	14' - 0"	-	0"	0' - 0"	2"	OVHD	STL	-	-	-	STL	-	-	•	INSULATED
103.7	GARAGE	103	22' - 0"	14' - 0"	-	0"	0' - 0"	2"	OVHD	STL	-	-	-	STL	-	-	•	INSULATED
103.8	GARAGE	103	22' - 0"	14' - 0"	-	0"	0' - 0"	2"	OVHD	STL	-	-	-	STL	-	-	•	INSULATED
103.9	GARAGE	103	22' - 0"	14' - 0"	-	0"	0' - 0"	2"	OVHD	STL	-	-	-	STL	-	-	•	INSULATED
103.10	GARAGE	103	22' - 0"	14' - 0"	-	0"	0' - 0"	2"	OVHD	STL	-	-	-	STL	-	-	•	INSULATED
104.1	WATER SERVICES	104	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	HM	PNT	5	2	HM	PNT	-	-	
105.1	ELECTRIC SERVICES	105	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	HM	PNT	5	2	HM	PNT	-	-	
106.1	PASSAGE	106	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	NL	HM	PNT	7	2	HM	PNT	-	•	INSULATED
106.2	PASSAGE	106	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	NL	HM	PNT	3	2	HM	PNT	60 MIN	•	
107.1	OUTER WEAR	107	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	NL	HM	PNT	6	2	HM	PNT	60 MIN	•	
108.1	GARAGE	103	5' - 0"	7' - 0"	-	0"	0' - 0"	1"	OVHD	STL	-	-	-	STL	-	-	-	DOOR TO BE FACE MOUNTED ON CMU WALL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
ST1.1	STAIR	ST-1	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	NL	HM	PNT	4	2	HM	PNT	60 MIN	•	
ST2.1	STAIR	ST1	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	NL	HM	PNT	4	2	HM	PNT	60 MIN	•	
SECOND FLOOR																		
201.1	OPEN OFFICE	206	3' - 0"	7' - 10 3/8"	1	3' - 0"	0' - 0"	1 3/4"	FLD	ALUM	FF	12	-	ALUM	FF	-	•	ALUMINUM STOREFRONT
202.1	RESTROOM	202	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	WD	ST	15	1	HM	PNT	-	-	
203.1	RESTROOM	203	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	WD	ST	15	1	HM	PNT	-	-	
206.1	OPEN OFFICE	206	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	HL	WD	ST	10	1	HM	PNT	-	•	
206.2	OPEN OFFICE	206	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	HL	WD	ST	11	1	HM	PNT	-	•	
207.1	OPEN OFFICE	206	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	HL	WD	ST	8	1	HM	PNT	-	•	
208.1	OFFICE	208	3' - 0"	7' - 6"	1	3' - 0"	0' - 0"	1 3/4"	HL	WD	ST	5	-	HM	PNT	-	•	
209.1	OPEN OFFICE	213	3' - 0"	7' - 6"	1	3' - 0"	0' - 0"	1 3/4"	HL	WD	ST	5	-	HM	PNT	-	•	
210.1	OFFICE	210	3' - 0"	7' - 6"	1	3' - 0"	0' - 0"	1 3/4"	HL	WD	ST	5	-	HM	PNT	-	•	
211.1	OFFICE	211	3' - 0"	7' - 6"	1	3' - 0"	0' - 0"	1 3/4"	HL	WD	ST	5	-	HM	PNT	-	•	
212.1	OFFICE	212	3' - 0"	7' - 6"	1	3' - 0"	0' - 0"	1 3/4"	HL	WD	ST	5	-	HM	PNT	-	•	
214.1	CORRIDOR	214	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	NL	WD	ST	10	1	HM	PNT	-	•	
215.1	MULTIPURPOSE MEETING ROOM	215	6' - 0"	7' - 0"	2	3' - 0"	3' - 0"	1 3/4"	NL	WD	ST	13	1	HM	PNT	-	•	
215.2	MULTIPURPOSE MEETING ROOM	215	6' - 0"	7' - 0"	2	3' - 0"	3' - 0"	1 3/4"	NL	WD	ST	13	1	HM	PNT	-	•	
216.1	SHELL SPACE	216	6' - 0"	7' - 0"	2	3' - 0"	3' - 0"	1 3/4"	F	WD	ST	14	1	HM	PNT	-	-	
217.1	LOCKER ROOM	217	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	WD	ST	9	1	HM	PNT	-	-	
218.1	MEN'S RESTROOM	218	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	WD	ST	9	1	HM	PNT	-	-	
218.2	LOCKER ROOM	217	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	WD	ST	9	1	HM	PNT	-	-	
219.1	WOMEN'S RESTROOM	219	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	WD	ST	9	1	HM	PNT	-	-	
220.1	JAN. CL	220	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	WD	ST	6	1	HM	PNT	-	-	
221.1	UTILITY RM	221	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	WD	PNT	5	1	HM	PNT	-	-	
222.1	CL	222	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	WD	ST	6	1	HM	PNT	-	-	
223.1	IT	223	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	WD	ST	6	1	HM	PNT	-	-	
223.1	ELEVATOR ELECTRIC	223	2' - 0"	7' - 0"	1	2' - 0"	0' - 0"	1 3/4"	F	WD	ST	5	1	HM	PNT	-	-	
224.1	STORAGE	224	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	F	WD	ST	6	1	HM	PNT	-	-	
226.1	CLOSET	226	2' - 0"	7' - 0"	1	2' - 0"	0' - 0"	1 3/4"	F	WD	ST	6	1	HM	PNT	-	-	
ST1.2	STAIR	ST-1	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	NL	HM	PNT	4	2	HM	PNT	60 MIN	•	
ST2.2	STAIR	ST-2	3' - 0"	7' - 0"	1	3' - 0"	0' - 0"	1 3/4"	NL	HM	PNT	4	2	HM	PNT	60 MIN	•	

LEGEND:

PANEL MATERIAL	PANEL FINISH	FRAME MATERIAL	FRAME FINISH
ALUM - ALUMINUM	PNT-PAINTED	AL - ALUMINUM	PNT - PAINTED
HM - HOLLOW METAL	FF - FACTORY FINISH	HM - HOLLOW METAL	FF - FACTORY FINISH
WD - WOOD	ST - NATURAL STAIN	STL - STEEL	

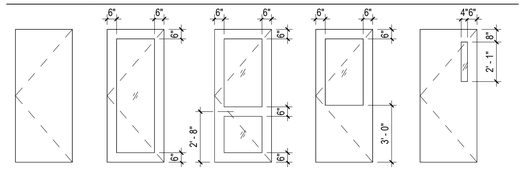
FRAME TYPES



1 2

NOTE: REFER TO DOOR SCHEDULES FOR DOOR HEIGHTS AND WIDTHS

DOOR PANEL TYPES



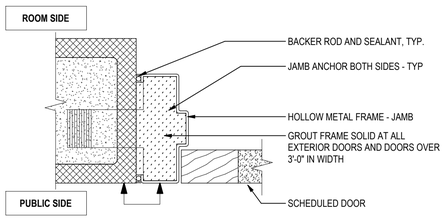
F FLUSH | FL FULL LITE | FLD FULL GLASS DIVIDED LITE | HL HALF LITE | NL NARROW LITE

NOTE: REFER TO DOOR SCHEDULES FOR DOOR HEIGHTS AND WIDTHS

PARTITION SCHEDULE

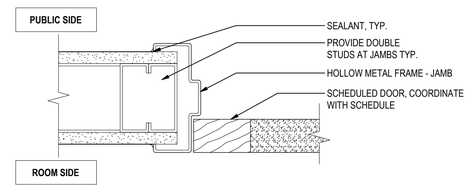
TYPE	CONSTRUCTION DATA: OVERALL PARTITION DEPTH	GWB THICKNESS	FRAMING SIZE	DETAIL AT TOP	DETAIL AT BASE	TOP TERMINATION: STUDS TO STRUCTURE	TOP TERMINATION: MASONRY TO STRUCTURE	ACOUSTICAL PERFORMANCE: SOUND INSULATION	NOTES
Group B - Material, Stud									
B13	4 1/4"	5/8"	3 5/8"	TB1	BB1	-	-	-	STUD FRAMING AND INTERIOR FINISH TO TERMINATE 6" ABOVE FINISH CEILING, REFER TO REFLECTED CEILING PLANS
B14	4 1/4"	5/8"	3 5/8"	TB1	BB1	•	-	•	
Group C - Material, Stud, Material									
C10	4 7/8"	5/8"	3 5/8"	TC1	BC1	-	-	-	STUD FRAMING AND INTERIOR FINISH TO TERMINATE 6" ABOVE FINISH CEILING, REFER TO REFLECTED CEILING PLANS
C11	4 7/8"	5/8"	3 5/8"	TC1	BC1	•	-	•	
Group M - CMU									
M08	7 5/8"	0"	8" NOM.	TM2	BM1	-	•	-	
M09	9 1/8"	0"	8" NOM.	TM2	BM1	-	•	-	

GENERAL NOTE: FOR REQUIRED RAITING INFORMATION REFER TO G-002 - LIFE SAFETY PLAN



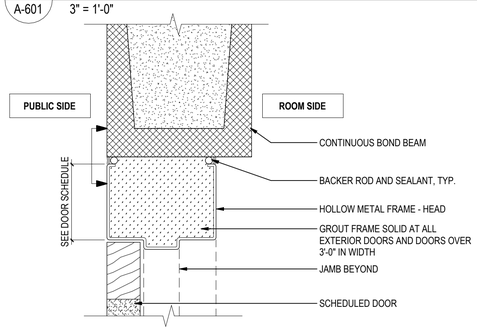
1 TYPICAL JAMB DETAIL AT CMU WALL

1 A-601 — 3" = 1'-0"



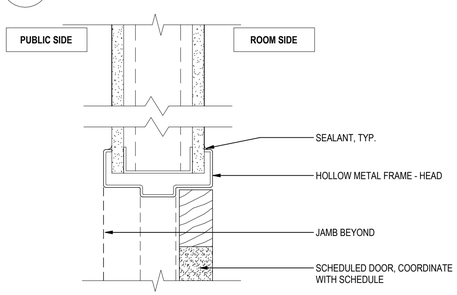
3 TYPICAL JAMB DETAIL AT GYP. BOARD WALL

3 A-601 — 3" = 1'-0"



2 TYPICAL HEAD DETAIL AT CMU WALL

2 A-601 — 3" = 1'-0"



4 TYPICAL HEAD DETAIL AT GYP. BOARD WALL

4 A-601 — 3" = 1'-0"

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Notes

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ISSUE FOR BID	JK	THC	2024.09.12
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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

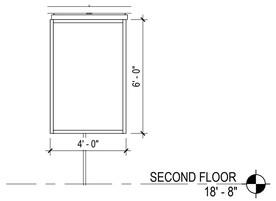
Title
DOOR SCHEDULE AND DETAILS

Project No.
192311093

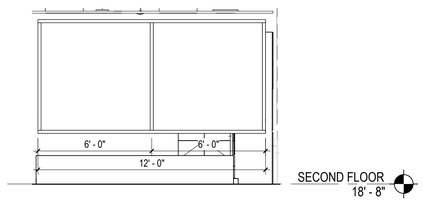
Scale
As indicated

Date
2020.12.11

Drawing No.
A-601



1 A-602 WINDOW TYPE - 1
1/4" = 1'-0"



2 A-602 WINDOW TYPE - 2
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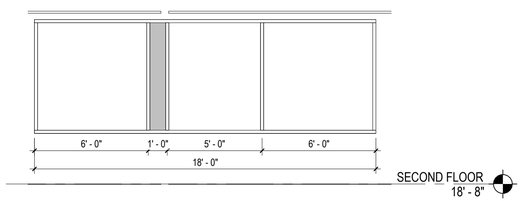

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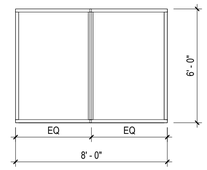
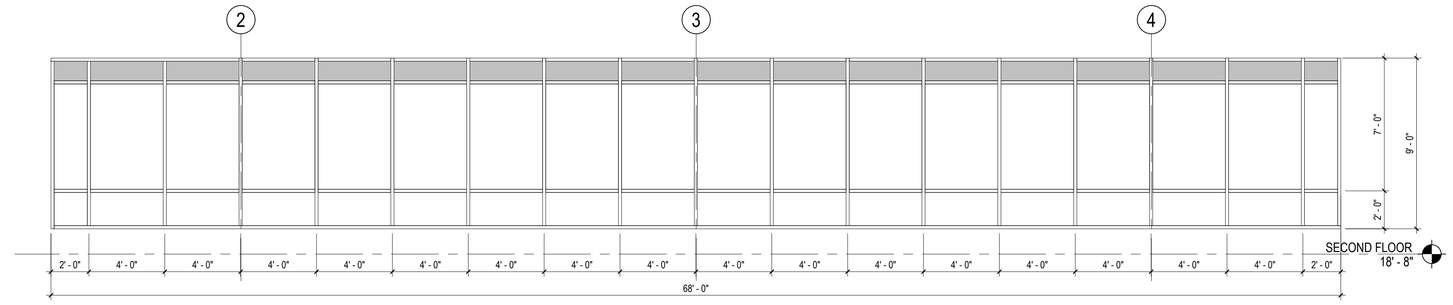
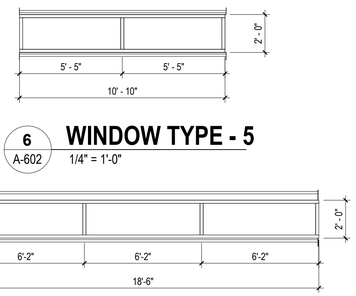


4 A-602 WINDOW TYPE - 4
1/4" = 1'-0"

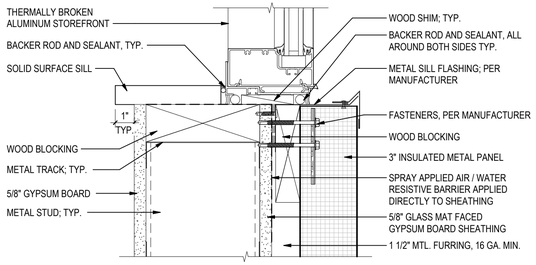


5 A-602 WEST ELEVATION STOREFRONT
1/4" = 1'-0"

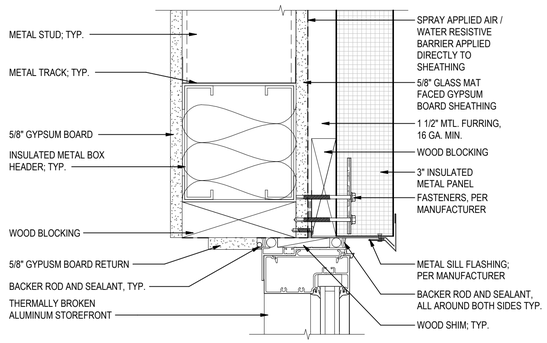


6 A-602 WINDOW TYPE - 5
1/4" = 1'-0"

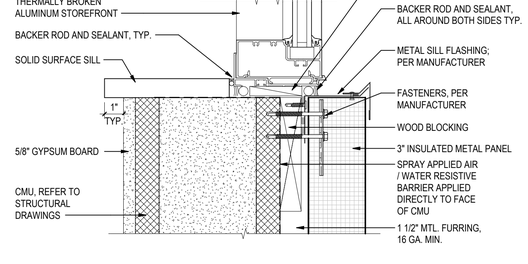
7 A-602 WINDOW TYPE - 6
1/4" = 1'-0"



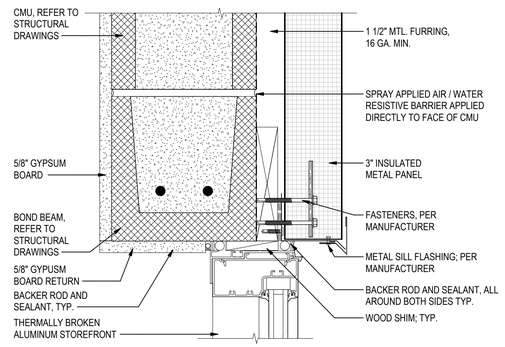
8 A-602 TYPICAL SILL DETAIL @ METAL STUD
3" = 1'-0"



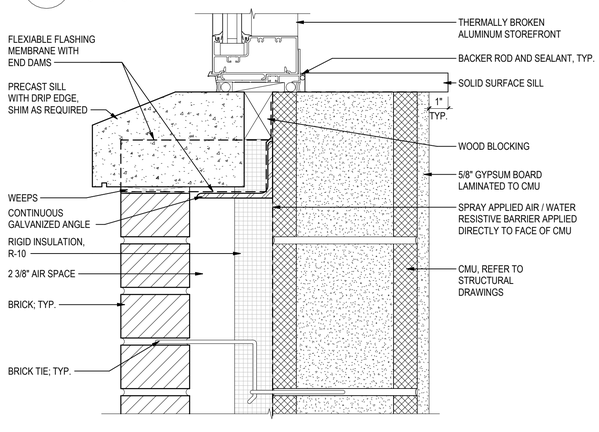
9 A-602 TYPICAL HEAD DETAIL @ METAL STUD
3" = 1'-0"



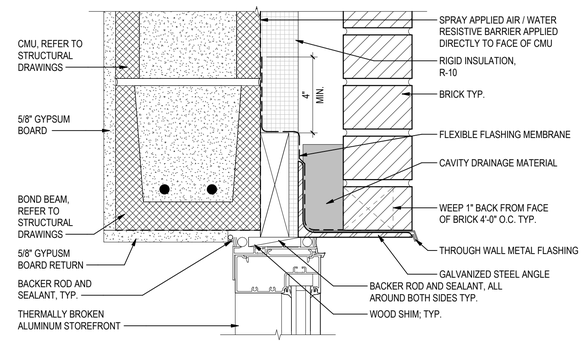
10 A-602 TYPICAL SILL DETAIL @ CMU
3" = 1'-0"



11 A-602 TYPICAL HEAD DETAIL @ CMU
3" = 1'-0"



12 A-602 TYPICAL SILL DETAIL @ BRICK
3" = 1'-0"



13 A-602 TYPICAL HEAD DETAIL @ BRICK
3" = 1'-0"

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Permit/Seal

Client/Project Logo

CITY OF RYE

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
STOREFRONT ELEVATIONS AND DETAILS

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2020.12.11	A-602

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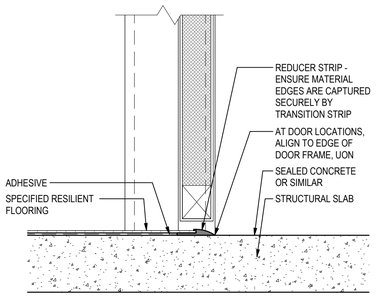
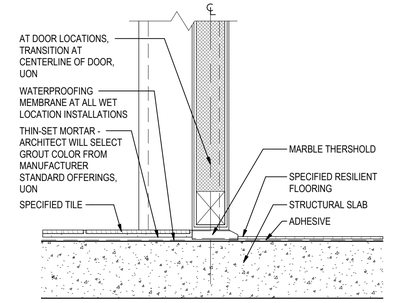
ORIGINAL SHEET - ANSI D



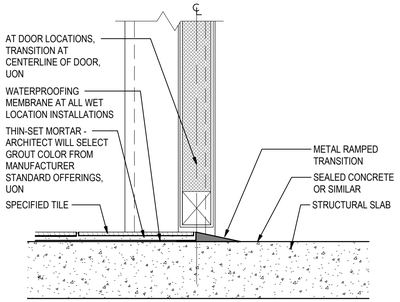
8 A-800 CONCRETE TO RESILENT

3" = 1'-0"



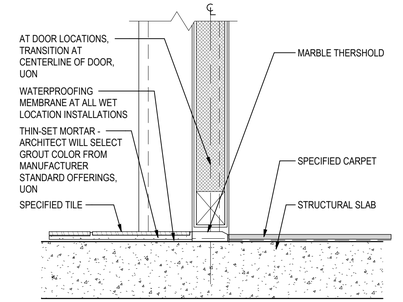
4 A-800 PORCELAIN TILE TO RESILIENT

3" = 1'-0"



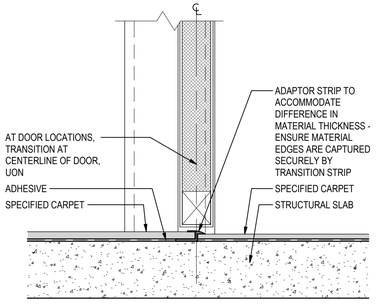
7 A-800 PORCELAIN TILE TO CONCRETE

3" = 1'-0"



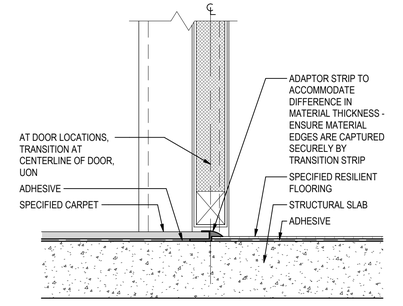
3 A-800 PORCELAIN TILE TO CPT

3" = 1'-0"



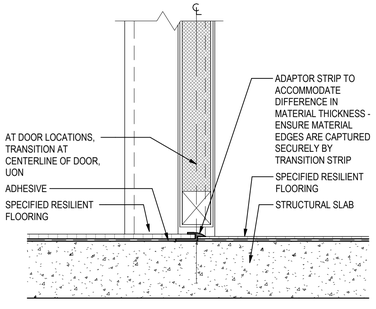
6 A-800 CPT TO CPT TRANSITION STRIP

3" = 1'-0"



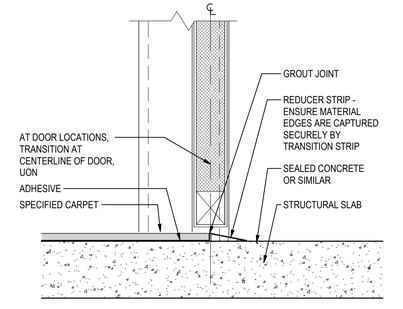
2 A-800 CPT TO RESILIENT TRANSITION STRIP

3" = 1'-0"



5 A-800 RESILIENT TO RESILIENT TRANSITION STRIP

3" = 1'-0"



1 A-800 CPT TO CONC

3" = 1'-0"

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Permit/Seal

Client/Project Logo

CITY OF RYE NY 1942

Client/Project

CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title

FINISH TRANSITION DETAILS

Project No.	Scale
192311093	3" = 1'-0"
Date	Drawing No.
2020.12.11	A-800

FIRE PROTECTION ABBREVIATIONS

ABD	AUTOMATIC BALL DRIP
ACV	ALARM CHECK VALVE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AUX	AUXILIARY
BFP	BACKFLOW PREVENTER
BOP	BOTTOM OF PIPE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV	DOUBLE CHECK VALVE
DN	DOWN
DPS	DRY PIPE SYSTEM
DSP	DRY SPRINKLER
DPV	DRY PIPE VALVE
DR	DRAIN
DWG	DRAWING
EH1	EXTRA HAZARD, GROUP 1
EH2	EXTRA HAZARD, GROUP 2
EL	ELEVATION
F	FIRE SERVICE
FCA	FLOOR CONTROL VALVE ASSEMBLY
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FM	FM GLOBAL, FACTORY MUTUAL
FP	FIRE PUMP
FS	FLOW SWITCH
FT	FOOT, FEET
JP	JOCKEY PUMP
LH	LIGHT HAZARD
NTS	NOT TO SCALE
OH1	ORDINARY HAZARD, GROUP 1
OH2	ORGINARY HAZARD, GROUP 2
OS&Y	OUTSIDE SCREW & YOKE
PG	PRESSURE GAUGE
PRV	PRESSURE REDUCING VALVE
RPZ	REDUCED PRESSURE ZONE BFP ASSEMBLY
SQ.FT.	SQUARE FOOR (FEET)
SPECS	SPECIFICATIONS
SP	SPRINKLER
TS	TAMPER SWITCH
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES

FIRE PROTECTION LEGEND

- PIPE DROP/DOWN
- PIPE UP
- TEE OUTLET DOWN
- TEE OUTLET UP
- CAPPED PIPE
- PIPE BREAK
- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- DOUBLE CHECK VALVE ASSEMBLY
- OS&Y WITH TAMPER SWITCH
- ALARM CHECK VALVE
- DRY PIPE VALVE
- FIRE DEPARTMENT CONNECTION
- S — SOLENOID VALVE
- TS — TAMPER SWITCH
- WFS — WATER FLOW SWITCH
- PS — PRESSURE SWITCH
- BFP — BACKFLOW PREVENTER
- FCVA — FLOOR CONTROL VALVE ASSEMBLY
- UPRIGHT SPRINKLER HEAD
- CONCEALED PENDENT SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD

PERFORMANCE SPECIFICATION CRITERIA

SPRINKLER PLANS AS SHOWN ARE FOR BIDDING PURPOSES ONLY. SPRINKLER CONTRACTOR IS TO OBTAIN CURRENT HYDRANT TEST DATA AND PROVIDE HYDRAULIC CALCULATIONS FOR SYSTEM PIPE SIZING IN ACCORDANCE WITH NFPA 13. CONTRACTOR IS TO SUBMIT SHOP DRAWINGS INDICATING HYDRAULIC CALCULATIONS, PIPING LAYOUT, & SIZING. SHOP DRAWINGS AND CALCULATIONS ARE TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, AND REVIEWED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION. ALL WORK IS TO BE DONE IN ACCORDANCE WITH ALL STATE, LOCAL, GOVERNING AND APPLICABLE CODES.

SPECIAL INSPECTIONS

- POST INSTALLED CONCRETE MEMBERS - ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLINED TO RESIST SUSTAINED TENSION LOADS. ACI 318: 17.8.2.4 1705.3
- SEISMIC. PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS. 1705.12.
- DESIGNATED SEISMIC SYSTEMS. ASCE 7 SECTION 13.2.2 1705.13.3
- FIRE-RESISTANT PENETRATIONS AND JOINTS [BF] HIGH RISE BUILDING OR BUILDINGS ASSIGNED TO RISK CATEGORY III OR IV ASTM E2174 ASTM E2393 1705.17

SPRINKLER DESIGN CRITERIA

1. ALL NEW SPRINKLER WORK IN THIS BUILDING SHALL BE IN ACCORDANCE WITH THE 2020 NEW YORK STATE BUILDING CODE & FIRE CODE, AND NFPA 13-2016.
2. OCCUPANCY CRITERIA:
   A. LIGHT HAZARD - DENSITY 0.10 GPM PER SQ. FT. OVER MOST HYDRAULICALLY DEMANDING 1,500 SQ. FT. 52,000 SQ.FT. MAXIMUM AREA LIMITATION. 250 GPM HOSE ALLOWANCE
   B. ORDINARY HAZARD GROUP 1 - DENSITY 0.15 GPM PER SQ. FT. OVER MOST HYDRAULICALLY DEMANDING 1,500 SQ. FT. 52,000 SQ. FT. MAXIMUM AREA LIMITATION. 250 GPM HOSE ALLOWANCE
   C. ORDINARY HAZARD GROUP 2 - DENSITY 0.20 GPM PER SQ. FT. OVER MOST HYDRAULICALLY DEMANDING 1,500 SQ. FT. 52,000 SQ. FT. MAXIMUM AREA LIMITATION. 250 GPM HOSE ALLOWANCE
   D. EXTRA HAZARD GROUP 1 - DENSITY 0.30 GPM PER SQ. FT. OVER MOST HYDRAULICALLY DEMANDING 2,500 SQ. FT. 40,000 SQ. FT. MAXIMUM AREA LIMITATION. 500 GPM HOSE ALLOWANCE
   E. EXTRA HAZARD GROUP 2 - DENSITY 0.35 GPM PER SQ. FT. OVER MOST HYDRAULICALLY DEMANDING 2,500 SQ. FT. 40,000 SQ. FT. MAXIMUM AREA LIMITATION. 500 GPM HOSE ALLOWANCE
   F. WATER CURTAIN SPRINKLER SYSTEMS - SPRINKLERS SHALL BE HYDRAULICALLY DESIGNED TO PROVIDE A DISCHARGE OF 3 GPM PER LINEAR FOOT OF WATER CURTAIN, WITH NO SPRINKLER DISCHARGING LESS THAN 15 GPM. SPRINKLERS SHALL BE SPACED NOT MORE THAN 6 FT APART.
3. MINIMUM PRESSURE AND WATER DISCHARGE:
   A. THE MINIMUM PRESSURE AT ANY SPRINKLER HEAD SHALL BE 7 PSI AND ADJUSTED UPWARDS BASED UPON OCCUPANCY HAZARD REQUIRED FLOW.
   B. SEE SPRINKLER HEAD MANUFACTURER DATA FOR MORE INFORMATION.
4. HYDRAULICALLY CALCULATED SYSTEMS SHALL MEET THE FOLLOWING CRITERIA:
   A. EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS WITH SUSPENDED CEILINGS SHALL BE AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLANS WITH HEADS IN CENTER OF TILES AND/OR ALIGNED WITH LIGHTS.
   B. WHENEVER ROLLED GROOVED CONNECTIONS ARE USED, ALLOWANCE FOR ADDITIONAL PRESSURE LOSS AT GROOVES SHALL BE MADE AS FOLLOWS:
      a. FOR EACH COUPLING ON STRAIGHT RUN INCLUDING STRAIGHT FLOW THROUGH TEE OR CROSS: ADD 1 EQUIVALENT FOOT OF PIPE.
      b. FOR EACH COUPLING AT ELBOW, TEE OR CROSS WHERE DIRECTION OF FLOW CHANGES: ADD 2 EQUIVALENT FEET OF PIPE.
   C. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO. 13, 2016. WHEREVER FITTINGS ARE USED IN CONJUNCTION WITH SCHEDULE 40 PIPE, EQUIVALENT FITTING LENGTHS INDICATED IN NFPA 13 SHALL BE INCREASED BY 30%.
   D. DISCHARGE FROM EACH SPRINKLER HEAD SHALL NOT BE LESS THAN REQUIRED FOR AREA COVERED BY THE HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA STANDARD NO. 13, 2016, PARAGRAPH 23.4.4.6.1.
   E. HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO CONNECTION TO WATER SUPPLY.
5. FLOW TEST DATA:
   A. CONTRACTOR SHALL OBTAIN FLOW DATA INDICATING RESIDUAL PRESSURES ASSOCIATED WITH BUILDING SYSTEM AND SUBMIT DATA WITH HYDRAULIC CALCULATIONS.
   B. THESE HYDRAULIC CALCULATIONS ALONG WITH PUMP OR WATER FLOW TEST ARE TO BE SUBMITTED FOR APPROVAL TO THE ENGINEER AND TO THE INSURANCE UNDERWRITER. HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE LOCATION OF THE PUMP OR WATER FLOW TEST.
   C. CONSTRUCTION MAY ONLY BEGIN WHEN APPROVALS ARE GRANTED.
   D. RESULT OF HYDRAULIC CALCULATIONS SHALL INDICATE MINIMUM 10% PRESSURE SAFETY MARGIN, I.E., EXCESS OF PRESSURE AVAILABLE OVER PRESSURE REQUIRED.

SEISMIC SUPPORT

CONTRACTOR SHALL SUPPORT ALL MECHANICAL, ELECTRICAL, PLUMBING, SPRINKLER, STANDPIPE, FIRE ALARM, AND ALL LOW VOLTAGE WORK AS REQUIRED FOR NY STATE SEISMIC DESIGN CATEGORY C FOR THIS FACILITY, WHICH HAS AN IMPORTANCE FACTOR OF 1.5.

UTILIZE VMC GROUP HANGERS AND SUPPORT SYSTEMS OR PRE-APPROVED EQUAL. SUBMIT DEVICES FOR ENGINEERS REVIEW. REFER TO DRAWING DETAILS AND SPECIFICATIONS FOR ADDITIONAL SEISMIC SUPPORT & CONTROL REQUIREMENTS.

ALL EQUIPMENT REQUIRED TO BE SEISMICALLY RATED SHALL BE RATED PER REQUIREMENTS REFERENCED IN THE 20020 NYS BUILDING CODE AND ALL APPLICABLE STANDARDS THEREIN. WHERE EQUIPMENT AND OR/PREFABRICATED ASSEMBLIES REQUIRE SEISMIC COMPLIANCE, CURRENT IBC CERTIFICATES OF COMPLIANCE SHALL SHALL BE PROVIDED FOR ALL MANUFACTURED COMPONENTS BY THE EQUIPMENT MANUFACTURER.

THESE DESIGN DOCUMENTS, INCLUDING DRAWINGS AND SPECIFICATIONS DO NOT FULLY REFLECT THE SEISMIC CONSIDERATIONS REQUIRED FOR THIS PROJECT THROUGH-OUT THE DESIGN DOCUMENTS PACKAGE. SEISMIC CONSIDERATIONS FOR THIS PROJECT ARE IDENTIFIED IN THIS NOTE, THE SEISMIC SPECIFICATIONS AND THE DRAWING SEISMIC DETAILS DRAWING SHEET(S).

THE SEISMIC DETAILS INCLUDES SUGGESTED DETAILS TO BE FOLLOWED FOR THE CONSTRUCTION OF THE PROJECT. ALTERNATE DETAILS ARE ACCEPTABLE AS LONG AS THEY MEET THE CERTIFICATION AND ANALYSIS SECTION OF THE PROJECT'S SEISMIC SPECIFICATION.

THIS TRADE CONTRACTOR SHALL SUBMIT SEISMIC SUPPORT DESIGN PACKAGE, SIGNED AND SEALED BY A LICENSED NYS PROFESSIONAL ENGINEER, FOR REVIEW BY STANTEC. SEISMIC DESIGN IS DELEGATED TO THE NYS PE HIRED BY THIS TRADE CONTRACTOR FOR ALL OF THIS TRADE CONTRACTOR'S WORK.

1.01 SEISMIC RESTRAINT

A. ALL EQUIPMENT AND SYSTEMS, WHETHER ISOLATED OR NOT, SHALL BE BOLTED TO STRUCTURE TO ALLOW FOR MINIMUM 0.75 "G" OF ACCELERATION. BOLT POINTS AND DIAMETER OF INSERTS SHALL BE SUBMITTED AND VERIFIED AS PART OF THE CONTRACTOR'S SUBMISSION FOR EACH PIECE OF EQUIPMENT AND CERTIFIED BY A LICENSED CIVIL OR STRUCTURAL ENGINEER. FIXINGS THAT RELY UPON FRICTION DUE TO GRAVITATIONAL FORCES ARE NOT PERMITTED.

1. WHERE REQUIRED, SEISMICALLY RESTRAIN ALL DISTRIBUTION WITH CENTER BRACING OR TYPE II RESTRAINING SYSTEM IN ACCORDANCE WITH NEW YORK STATE CODE.

2. SEISMIC RESTRAINTS ARE NOT REQUIRED FOR: N/A.

3. WHERE BASE ANCHORING IS INSUFFICIENT TO RESIST SEISMIC FORCES, ETC., SEISMIC RESTRAINT SYSTEM TYPE II SHALL BE USED ABOVE SYSTEM'S CENTER OF GRAVITY TO SUITABLY RESIST "G" FORCE LEVELS.

4. FOR OVERHEAD SUPPORTED EQUIPMENT, OVERSTRESS OF THE BUILDING STRUCTURE MUST NOT OCCUR. BRACING CAN OCCUR FROM:

a. FLANGES OF STRUCTURAL BEAMS.
b. UPPER OR LOWER TRUSS CHORDS IN BAR JOISTS CONSTRUCTION AT THE PANEL POINTS.
c. CAST-IN-PLACE INSERTS OR DRILLED AND SHIELDED INSERTS IN CONCRETE STRUCTURES

5. GRAVITY OR "C" CLAMPS ARE NOT PERMITTED FOR SUSPENSION OR RESTRAINT OF EQUIPMENT.

SPRINKLER GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
2. COORDINATE THE FIRE PROTECTION SYSTEM WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING A FULL SET OF BID DOCUMENTS AND VISIT THE SITE TO MAKE HIMSELF AWARE OF THE TOTAL JOB BEFORE SUBMITTING HIS PRICE, FAILURE TO COMPLY SHALL NOT HOLD THE OWNER RESPONSIBLE FOR ANY ADDITIONAL COST. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH FACILITY'S BUILDING MANAGEMENT FOR HANDLING MATERIALS, AS WELL AS FOR ALLOWABLE WORKING HOURS AND DELIVERIES.
4. NOTIFY OWNER AT LEAST 5 DAYS BEFORE NEW WORK OR BEFORE SHUT DOWN OF EXISTING SERVICES.
5. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND MANUFACTURERS' CUTS AND SAMPLES TO ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF SUCH WORK.
6. THE CONTRACTOR SHALL INDICATE ON HIS SHOP DRAWING THAT ALL PIPING LAYOUTS ARE COORDINATED WITH THE MEP AND STRUCTURAL CONDITIONS. INCLUDE ON EACH WORKING DRAWING LAYOUT CERTIFICATE, THAT ALL RELATED CONDITIONS HAVE BEEN CHECKED, AND THAT NO CONFLICT EXISTS. SUBMISSION WILL NOT BE APPROVED WITHOUT SUCH CERTIFICATION.
7. CONTRACTOR SHALL SUBMIT SPRINKLER HYDRAULIC CALCULATIONS FOR THE ENGINEER'S REVIEW TO VERIFY THE ADEQUACY OF THE INDICATED PIPE SIZES.
8. SPRINKLER CONTRACTOR SHALL CONDUCT A HYDRANT FLOW TEST OR OBTAIN FLOW TEST DATA TO VERIFY THE AVAILABLE WATER SUPPLY PRESSURE AND FLOW RATE ON THE INCOMING FIRE SERVICE. CONTRACTOR SHALL BASE HYDRAULIC CALCULATIONS ON THIS DATA.
9. DRAWINGS ARE NOT TO BE SCALED.
10. CONTRACTOR SHALL CARRY AND DOCUMENT LIABILITY, ACCIDENT AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY COOPERATIVE CORPORATION AND OBSERVE THEIR PERMITTED HOURS FOR WORK.
11. CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AREAS ADJACENT TO CONSTRUCTION AREAS AND SHALL FULLY PROTECT THE ADJACENT AREAS FROM ANY DAMAGE RESULTING FROM CONTRACTOR'S WORKMEN, SUBCONTRACTORS OR AGENTS, AND SHALL BE RESPONSIBLE FOR REPAIRING, CLEANING OR REPLACING ANY SUCH DAMAGE.
12. ALL DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
13. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE ALL WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
14. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURER'S DIRECTIONS, INSTRUCTIONS AND RECOMMENDATIONS FOR ALL MATERIALS AND PROCESSES USED IN THIS CONTRACT.
15. SPRINKLER HEADS SHALL NOT BE LOCATED DIRECTLY OVER ANY ELECTRICAL AND TELEPHONE EQUIPMENT.
16. SPRINKLER HEADS IN MECHANICAL ROOMS SHALL HAVE AN INTERMEDIATE TEMPERATURE RATING.
17. SPRINKLER PIPING SHALL BE INSTALLED AS PER APPROVED SHOP DRAWINGS.
18. EACH CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL PENETRATIONS, CUTTING, PATCHING, SLEEVES, AND FIRESTOPPING REQUIRED TO COMPLETE THE INSTALLATION OF ALL WORK INCLUDED UNDER THEIR CONTRACT IN ACCORDANCE WITH THE FIRE EGRESS AND SECURITY PLAN DRAWINGS.
19. ANY DAMAGE TO THE FIRE PROOFING OR BUILDING PROPER SHALL BE REPAIRED TO ENSURE INTEGRITY.
20. ALL UPRIGHT SPRINKLER HEADS IN MECHANICAL AND STORAGE ROOMS SHALL HAVE LISTED HEAD GUARDS.
21. LOCATE ALL HORIZONTAL PIPING ABOVE SUSPENDED CEILING, UNLESS THERE IS NO CEILING.
22. PROVIDE SPRINKLER HEADS UNDER DUCTS OVER 4'-0" IN WIDTH IN AREAS WITHOUT HUNG CEILING.
23. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE, INCLUDING REMOVAL OF ALL LABELS (AFTER ARCHITECT'S INSPECTION), CLEANING OF ALL THE EQUIPMENT, CONSTRUCTION WORK, WINDOWS AND OTHER WORK, NEW AND OLD, IN THAT CONSTRUCTION AREA.
24. AS-BUILT DRAWINGS SHALL BE TURNED OVER TO OWNER AT THE COMPLETION OF THE JOB.
25. CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT FOR ONE YEAR, STARTING FROM DATE OF FINAL ACCEPTANCE OF ALL WORK.
26. THE MINIMUM SPRINKLER BRANCH PIPE SIZE SHALL BE 1".

SEISMIC SUPPORT (CONTINUED)

6. ALL STRUCTURALLY SUSPENDED OVERHEAD EQUIPMENT ISOLATED OR UN-ISOLATED SHALL BE FOUR-POINT INDEPENDENTLY BRACED WITH TYPE II SEISMIC RESTRAINING SYSTEM.

7. SEISMIC RESTRAINTS:

a. ALL SEISMIC RESTRAINTS SHALL BE CAPABLE OF SAFELY ACCEPTING 0.75 "G" EXTERNAL FORCES WITHOUT FAILURE AND SHALL MAINTAIN EQUIPMENT, AND ASSOCIATED DISTRIBUTION IN A CAPTIVE POSITION. SEISMIC RESTRAINTS SHALL NOT SHORT CIRCUIT ISOLATION SYSTEMS OR TRANSMIT OBJECTIONABLE VIBRATION OR NOISE, AND SHALL BE PROVIDED ON ALL EQUIPMENT AS SCHEDULED ON DESCRIBED HERE. CALCULATION BY REGISTERED STRUCTURAL OR CIVIL ENGINEER SHALL BE SUBMITTED TO VERIFY SNUBBER CAPACITIES FOR EACH PIECE OF EQUIPMENT.
b. EQUIPMENT MOUNTED ON SPRINGS DOES NOT REQUIRE ADDITIONAL SEISMIC RESTRAINTS, PROVIDING THAT THE SPRING MOUNTINGS

(I) COMPLY WITH GENERAL CHARACTERISTICS OF SPRING ISOLATORS.
(II) HAVE VERTICAL LIMIT STOPS AND ARE CAPABLE OF SUPPORTING EQUIPMENT AT FIXED ELEVATION DURING EQUIPMENT ERECTION.
(III) INCORPORATE SEISMIC SNUBBING RESTRAINT IN ALL DIRECTIONS AT SPECIFIED ACCELERATION

8. SEISMIC RESTRAINT TYPES A.

a. SEISMIC RESTRAINTS TYPE I

(I) EACH CORNER OR SIDE SEISMIC RESTRAINT SHALL INCORPORATE MINIMUM .625 INCH THICK PAD LIMIT STOPS. RESTRAINTS SHALL BE MADE OF PLATE, STRUCTURAL MEMBERS OR SQUARE METAL TUBING IN A WELDED ASSEMBLY, INCORPORATING RESILIENT PADS. ANGLE BUMPERS ARE NOT ACCEPTABLE. SYSTEM TO BE FIELD BOLTED TO DECK WITH 0.75 "G" ACCELERATION CAPACITY.
(II) SEISMIC SPRING MOUNTINGS AS DESCRIBED ABOVE ARE AN ACCEPTABLE ALTERNATIVE, PROVIDING ALL SEISMIC LOADING REQUIREMENTS ARE MET
(III) VMC GROUP, AS INDICATED ON SEISMIC DETAIL SHEET OR AS APPROVED.

b. SEISMIC RESTRAINT TYPE II

(I) METAL CABLE TYPE WITH APPROVED FASTENING DEVICES TO EQUIPMENT AND STRUCTURE. SYSTEM TO BE FIELD BOLTED TO DECK OR OVERHEAD STRUCTURAL MEMBERS OR DECK WITH AIRCRAFT CABLE AND CLAMPS PER SMACNA AND/OR OTHER APPLICABLE GUIDELINES.

SPRINKLER CODE NOTES

1. AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH SECTION 903 OF THE 2020 NEW YORK STATE BUILDING CODE (NYSBC), 2020 NEW YORK STATE FIRE CODE (NYSFC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD NO. 13-2016.
2. APPROVED AUTOMATIC SPRINKLER SYSTEM IN NEW BUILDINGS AND STRUCTURES SHALL BE PROVIDED IN THE LOCATIONS DESCRIBED IN SEC. 903.2 OF THE 2020 NYSBC.
3. AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SEC. 903.3.1 THROUGH 903.3.8 OF THE 2020 NYSBC.
4. AUTOMATIC SPRINKLERS SHALL NOT BE REQUIRED IN THE ROOMS OR AREAS WHICH ARE LISTED IN 903.3.1.1.1 OF THE 2020 NYSBC AS LONG AS AN APPROVED AUTOMATIC FIRE DETECTION SYSTEM IN ACCORDANCE WITH SEC. 907.2 AND AN ALTERNATIVE EXTINGUISHING SYSTEM IN ACCORDANCE WITH SEC. 904.
5. SPRINKLERS SHALL NOT BE OMITTED FROM ANY ROOM MERELY BECAUSE IT IS DAMP, OF FIRE-RESISTANCE-RATED CONSTRUCTION OR CONTAINS ELECTRICAL EQUIPMENT AS PER SEC. 903.3.1.1.1 OF THE 2020 NYSFC.
6. WHERE AN AUTOMATIC SPRINKLER SYSTEM IS TO BE INSTALLED, QUICK-RESPONSE AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN THE AREAS LISTED IN SEC. 903.3.2 OF THE 2020 NYSBC.
7. AUTOMATIC SPRINKLERS SHALL BE INSTALLED WITH DUE REGARD TO OBSTRUCTIONS THAT WILL DELAY ACTIVATION OR OBSTRUCT THE WATER DISTRIBUTION PATTERN. AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN OR UNDER COVERED KIOSKS, DISPLAYS, BOOTH, CONCESSION STANDS, OR EQUIPMENT THAT EXCEEDS 4 FEET IN WIDTH. NOT LESS THAN 3 FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN AUTOMATIC SPRINKLERS AND TOP OF PILES OF COMBUSTIBLE FIBERS SEC. 903.3.3. OF THE 2020 NYSBC.
8. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS, PUMPS, TANKS, WATER LEVELS AND TEMPERATURES, CRITICAL AIR PRESSURES AND WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEM SHALL BE ELECTRICALLY SUPERVISED BY THE FIRE ALARM SYSTEM WHERE A FIRE ALARM SYSTEM IS REQUIRED BY SECTION 907 AS PER SEC. 903.4 OF THE 2020 NYSBC.
9. THE DOCUMENTS OR PORTIONS THERE OF LISTED IN CHAPTER 2 OF NFPA 13-2016 ARE REFERENCED WITHIN NFPA 13 AND SHALL BE CONSIDERED PART OF THE REQUIREMENTS OF THIS DOCUMENT.
10. OCCUPANCY CLASSIFICATION SHALL COMPLY WITH CHAPTER 5 OF NFPA 13-2016.
11. REQUIREMENTS FOR CORRECT USE OF SPRINKLER SYSTEM COMPONENTS SHALL COMPLY WITH CHAPTER 6 OF NFPA 13-2016.
12. THE K-FACTOR, RELATIVE DISCHARGE, AND MARKING IDENTIFICATION FOR SPRINKLERS HAVING DIFFERENT ORIFICE SIZES SHALL BE IN ACCORDANCE WITH TABLE 6.2.3.1 OF NFPA 13-2016.
13. AUTOMATIC SPRINKLERS SHALL HAVE THEIR FRAME ARMS, DEFLECTOR, COATING MATERIAL, OR LIQUID BULB COLORED IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 6.2.5.1 OF NFPA 13-2016.
14. ALL CONTROL, DRAIN, AND TEST CONNECTION VALVES SHALL BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS AS PER SECTION SEC. 6.7.4.1 OF NFPA 13-2016.
15. THE MAXIMUM FLOOR AREA OR ANY ONE FLOOR TO BE PROTECTED BY A SINGLE RISER FROM A CONTROL VALVE AND ALARM DEVICE SHALL COMPLY WITH SEC. 8.2.1 OF NFPA 13-2016.
16. WHERE CIRCUMSTANCES REQUIRE THE USE OF OTHER THAN ORDINARY TEMPERATURE-RATED SPRINKLERS, STANDARD RESPONSE SPRINKLERS SHALL BE PERMITTED TO BE USED SEC. 8.3.3.1 OF NFPA 13-20136
17. SPRINKLERS OF INTERMEDIATE AND HIGH TEMPERATURE RATINGS SHALL BE INSTALLED IN SPECIFIC LOCATIONS AS REQUIRED BY SEC. 8.3.2 OF NFPA 13-2016.
18. SPRINKLERS SHALL BE LOCATED, SPACED AND POSITIONED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 8.5 OF NFPA 13-2016.
19. PROTECTION AREAS AND MAXIMUM SPACING FOR EACH HAZARD SHALL COMPLY WITH TABLE 8.6.2.2.1(a), (b), (c), AND (d) OF NFPA 13-2016.
20. DRAIN CONNECTIONS FOR SYSTEMS SUPPLY RISERS AND MAINS SHALL BE SIZED AS SHOWN IN TABLE 8.16.2.4.2 OF NFPA 13-2016.
21. TYPES OF HANGERS SHALL BE ACCORDANCE WITH THE REQUIREMENT OF SEC. 9.1. OF NFPA 13-2016.
22. MAXIMUM DISTANCE BETWEEN HANGERS SHALL BE COMPLY WITH TABLE 9.2.2.1 OF NFPA 13-2016.
23. HOSE STREAM DEMAND AND WATER SUPPLY DURATION REQUIREMENT SHALL COMPLY WITH TABLE 11.2.3.1.2 OF NFPA 13-2016.
24. THE WATER SUPPLY FOR SPRINKLERS SHALL BE DETERMINED BY DENSITY/AREA CURVE, FIGURE 11.2.3.1.1 OF NFPA 13-2016.
25. HYDRAULIC DESIGN AREA REDUCTION FOR QUICK RESPONSE SPRINKLERS SHALL COMPLY WITH FIGURE 11.2.3.2.3.1 OF NFPA 13-2016.
26. DESIGN CRITERIA OF WATER CURTAIN SHALL COMPLY WITH SEC. 11.3.3 OF NFPA 13-2016.
27. TYPE OF SPRINKLER HEAD IN GENERAL STORAGE SHALL COMPLY WITH SECTION 12.6 OF NFPA 13-2016.
28. MINIMUM OPERATING PRESSURE OF ANY SPRINKLER SHALL BE 7 PSI AS PER SECTION 23.4.4.10 OF NFPA 13-2016.
29. NUMBER OF WATER SUPPLIES FOR SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 24.1.1 OF NFPA 13-2016
30. THE SPRINKLER SYSTEM SHALL BE HYDROSTATICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS AS PER SECTION 25.2.1.1 OF NFPA 13-2016. PORTIONS OF SYSTEMS NORMALLY SUBJECTED TO SYSTEM WORKING PRESSURE IN EXCESS OF 150 PSI SHALL BE TESTED AT 50 PSI IN EXCESS OF SYSTEM WORKING PRESSURE AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS, PER NFPA 13-2016 SEC. 25.2.1.2.
31. A SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH NFPA 13 SHALL BE PROPERLY INSPECTED, TESTED, AND MAINTAINED IN ACCORDANCE WITH NFPA 25, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS AND THE INTERNATIONAL FIRE CODE, TO PROVIDE AT LEAST THE SAME LEVEL OF PERFORMANCE AND PROTECTION AS DESIGNED.
32. PAINTING OF DEDICATED SPRINKLER PIPING AND VALVE HANDLES SHALL BE PERFORMED AS REQUIRED BY THE 2020 NYSBC, 2020 NYSFC, AND LOCAL AHJ.
33. A MANUAL OR AUTOMATIC AIR VENT SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13-2016 SECTIONS 7.1.5 AND 8.16.6.
34. THE CONTRACTOR SHALL ARRANGE ALL SPRINKLER SYSTEMS FOR FLUSHING AS PER NFPA 13.2016 SECTION 8.16.3.

SEISMIC DESIGN CRITERIA

SEISMIC RISK CATEGORY	**IV**
SEISMIC IMPORTANCE FACTOR, Ie	1.5
MAPPED SPECTRAL RESPONSE Sms AND Sm1	.444/.144
SEISMIC SITE CLASS	D
DESIGN SPECTRAL RESPONSE Sds AND Sd1	.296/.096
SEISMIC DESIGN CATEGORY	**C**
BASIC SEISMIC FORCE - RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR(S)	0.170 x W
SEISMIC RESPONSE COEFFICIENT(S), CS.	.0170
RESPONSE MODIFICATION COEFFICIENT, R.	2.00
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE

NOTES:
1. STRUCTURAL DESIGN INFORMATION INCLUDED FOR REFERENCE ONLY. SEE STRUCTURAL DESIGN DRAWINGS.
2. **SEISMIC BRACING SHALL BE PROVIDED PER NEW YORK STATE BUILDING CODE, NEW YORK STATE FIRE CODE, ASCE 7, AND NFPA 13.**

Stantec

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	MP	MP	JHP	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title

FIRE PROTECTION LEAD SHEET

Project No.	Scale
192311093	12" = 1'-0"
Date	Drawing No.
2024.07.23	**FP-000**

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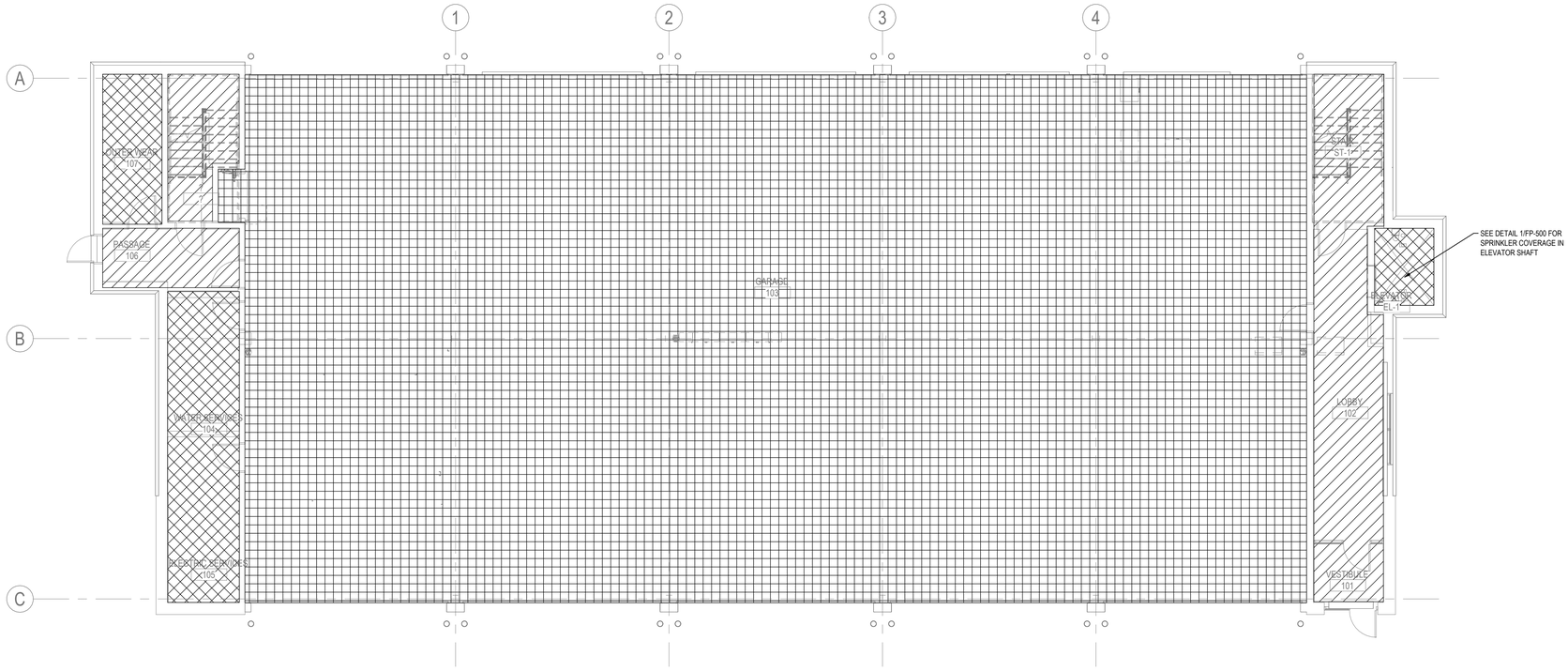

1 FP-101 **FIRE PROTECTION FIRST FLOOR COVERAGE PLAN**

1/8" = 1'-0"

FIRE PROTECTION COVERAGE LEGEND

LIGHT HAZARD
SPRINKLER DENSITY: 0.10 GPM/FT^2
SPRINKLER AREA: 1,500 FT^2
SPRINKLER RESPONSE: QUICK
HOSE ALLOWANCE: 100 GPM

ORDINARY HAZARD GROUP 1
SPRINKLER DENSITY: 0.15 GPM/FT^2
SPRINKLER AREA: 1,500 FT^2
SPRINKLER RESPONSE: QUICK
HOSE ALLOWANCE: 250 GPM

ORDINARY HAZARD GROUP 2 (DRY SYSTEM)
SPRINKLER DENSITY: 0.20 GPM/FT^2
SPRINKLER AREA: 1,950 FT^2
SPRINKLER RESPONSE: QUICK
HOSE ALLOWANCE: 250 GPM

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RYE, NY 10580

Title
FIRE PROTECTION FIRST FLOOR COVERAGE PLAN

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2024.07.23	**FP-101**

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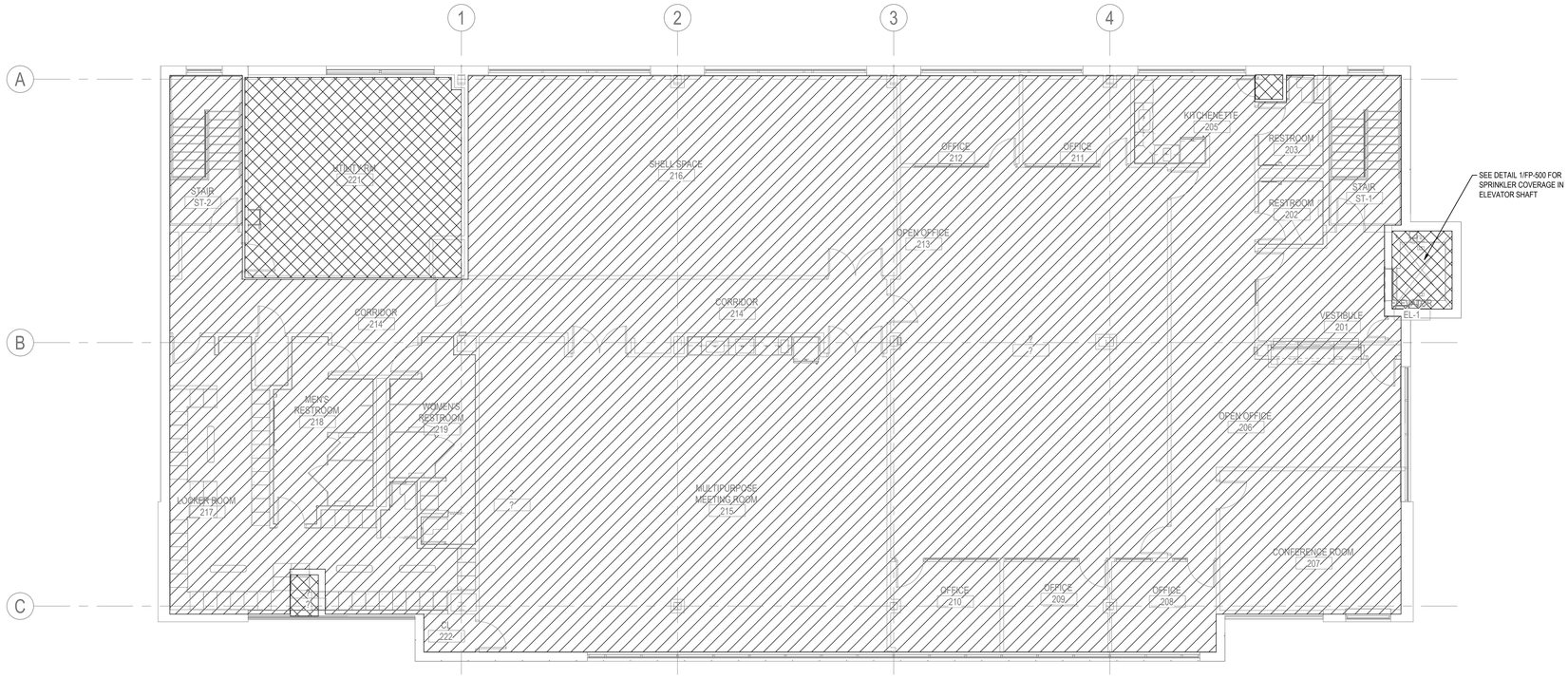

1 FP-102 FIRE PROTECTION SECOND FLOOR COVERAGE PLAN

1/8" = 1'-0"

FIRE PROTECTION COVERAGE LEGEND

LIGHT HAZARD
SPRINKLER DENSITY: 0.10 GPM/FT²
SPRINKLER AREA: 1,500 FT²
SPRINKLER RESPONSE: QUICK
HOSE ALLOWANCE: 100 GPM

ORDINARY HAZARD GROUP 1
SPRINKLER DENSITY: 0.15 GPM/FT²
SPRINKLER AREA: 1,500 FT²
SPRINKLER RESPONSE: QUICK
HOSE ALLOWANCE: 250 GPM

ORDINARY HAZARD GROUP 2 (DRY SYSTEM)
SPRINKLER DENSITY: 0.20 GPM/FT²
SPRINKLER AREA: 1,950 FT²
SPRINKLER RESPONSE: QUICK
HOSE ALLOWANCE: 250 GPM

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RYE, NY 10580

Title
FIRE PROTECTION SECOND FLOOR COVERAGE PLAN

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2024.07.23	FP-102

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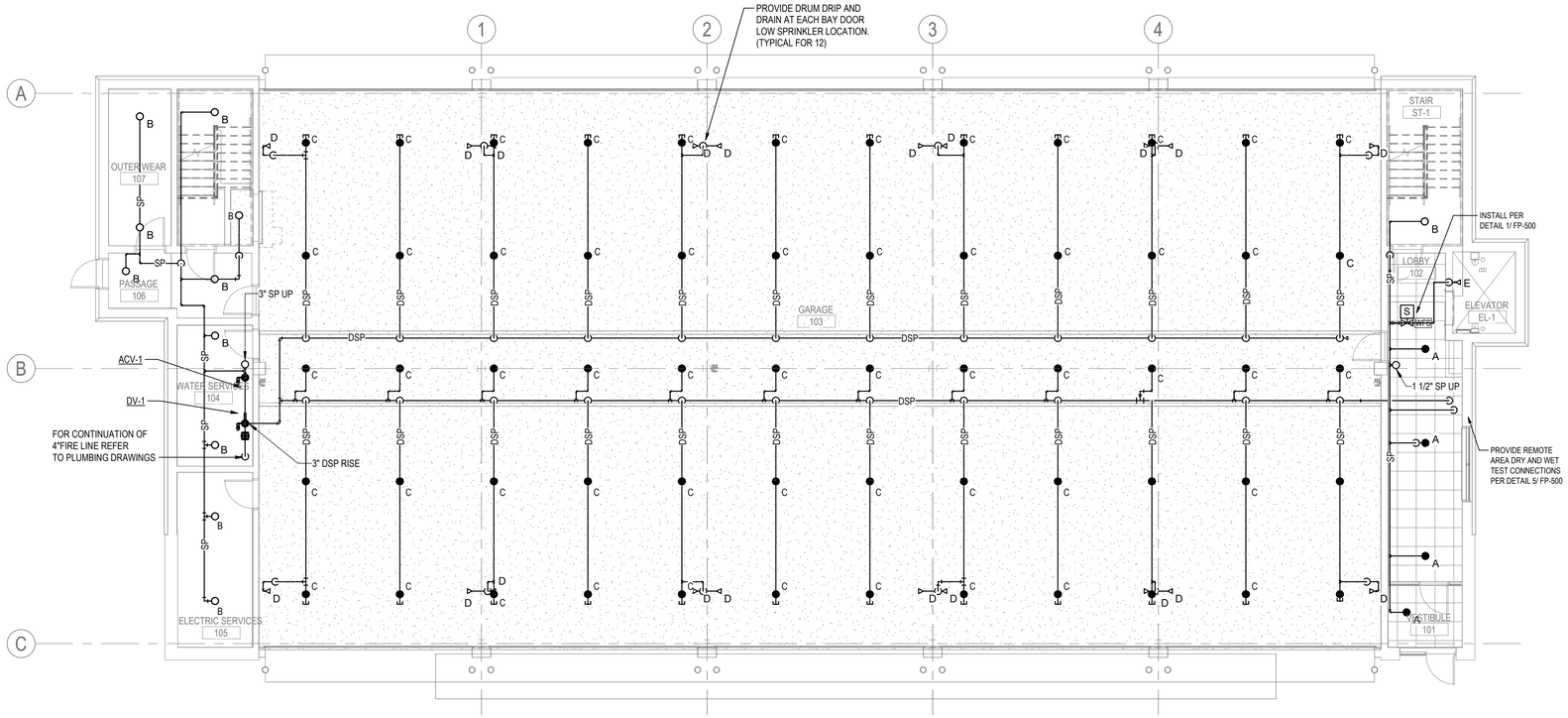

1 FP-201 FIRE PROTECTION FIRST FLOOR PIPING PLAN

1/8" = 1'-0"

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Title
FIRE PROTECTION FIRST FLOOR PIPING PLAN

Project No.	Scale
192311093	1/8" = 1'-0"
Date	Drawing No.
2024.07.23	FP-201

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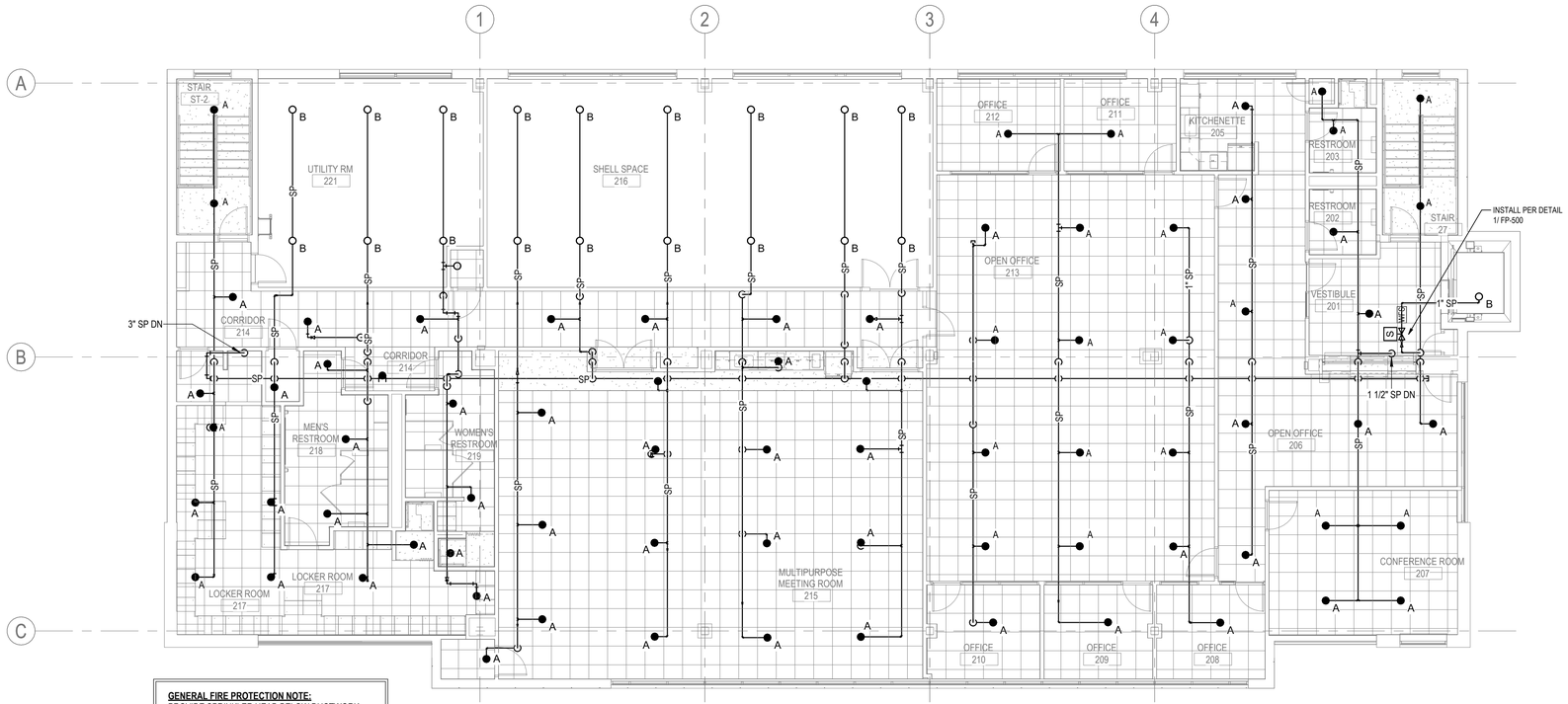

GENERAL FIRE PROTECTION NOTE:
PROVIDE SPRINKLER HEAD BELOW DUCTWORK, EQUIPMENT AND OBSTRUCTIONS WIDER THAN 48" IN OPEN CEILING AREAS.

1 FP-202 FIRE PROTECTION SECOND FLOOR PIPING PLAN

1/8" = 1'-0"

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DISBROW PARK
RYE, NY 10580

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FIRE PROTECTION SECOND FLOOR PIPING PLAN

Project No.	Scale
192311093	1/8" = 1'-0"
Date	Drawing No.
2024.07.23	FP-202

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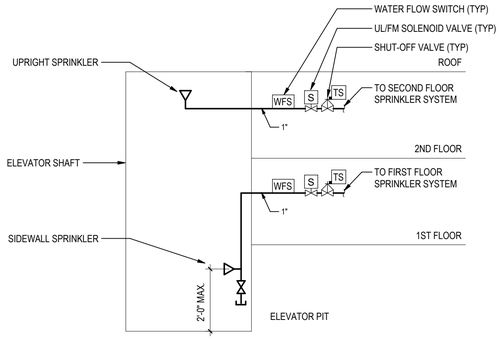
9/17/2024 3:10:51 PM

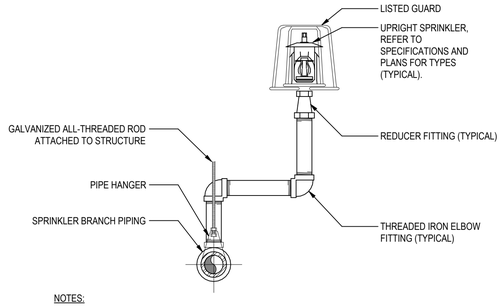
ORIGINAL SHEET - ANSI D



NOTES:
INTERLOCK SOLENOID VALVES WITH ELEVATOR SHUNT TRIP CONTROL DEVICE TO ONLY ALLOW APPLICATION OF WATER IN HOISTWAY AFTER COMPLETE SHUTDOWN OF POWER TO THE ELEVATOR IN ACCORDANCE WITH ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS. INSTALL INTERLOCK AND TIME DELAYS AS PER NFPA 72. COORDINATE TIME DELAY WITH ELEVATOR MANUFACTURER.

1 FP-500 ELEVATOR HOISTWAY FIRE PROTECTION DETAIL

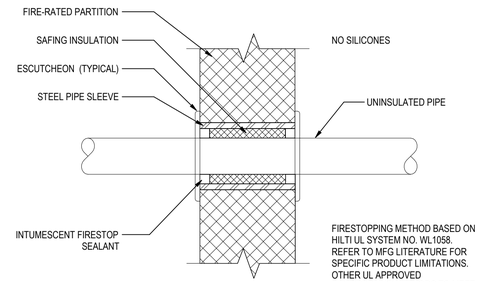
N.T.S.



NOTES:
1. SPRINKLER HEAD GUARD REQUIRED WHERE SPRINKLER HEADS ARE INSTALLED BELOW 8FT A.F.F., IN MECHANICAL ROOMS, GARAGES, AND ANY OTHER LOCATION WHERE SPRINKLER HEAD MAY BE IMPACTED.

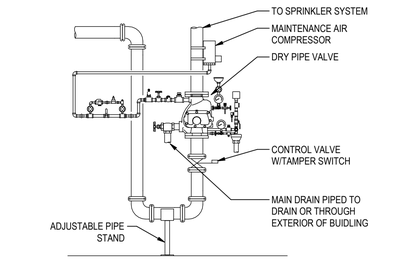
2 FP-500 UPRIGHT SPRINKLER HEAD WITH GUARD DETAIL

N.T.S.



3 FP-500 FIRESTOPPED, UNINSULATED PIPE PENETRATIONS OF RATED PARTITIONS

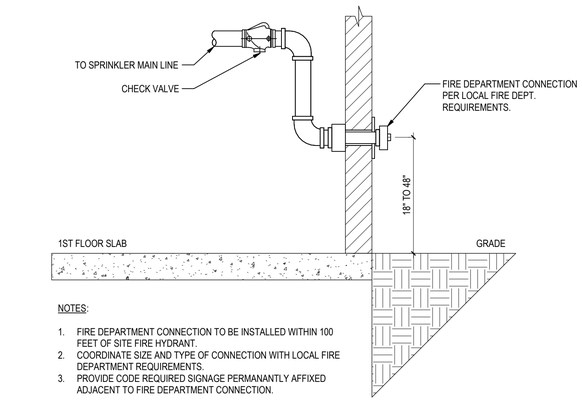
N.T.S.



NOTES:
1. DRY PIPE VALVE SHALL CONSIST OF A COMPLETE, CODE COMPLIANT ASSEMBLY AND SHALL INCLUDE DRY PIPE VALVE WITH COMPLETE TRIM PACKAGE, ACCELERATOR, PRESSURE SWITCH, RISER MOUNTED AIR COMPRESSOR, AIR MAINTENANCE DEVICE, AND DRAIN PIPING.
2. CONTRACTOR SHALL SIZE AIR COMPRESSOR PER NFPA 13 REQUIREMENTS.

4 FP-500 DRY SPRINKLER VALVE ARRANGEMENT DETAIL

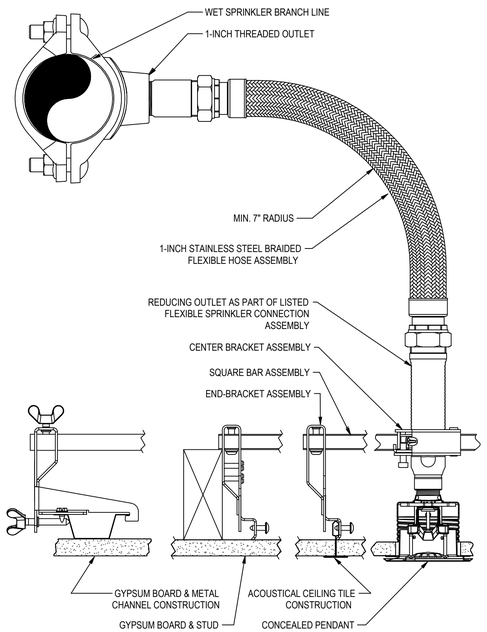
N.T.S.



NOTES:
1. FIRE DEPARTMENT CONNECTION TO BE INSTALLED WITHIN 100 FEET OF SITE FIRE HYDRANT.
2. COORDINATE SIZE AND TYPE OF CONNECTION WITH LOCAL FIRE DEPARTMENT REQUIREMENTS.
3. PROVIDE CODE REQUIRED SIGNAGE PERMANANTLY AFFIXED ADJACENT TO FIRE DEPARTMENT CONNECTION.

5 FP-500 FIRE DEPARTMENT CONNECTION DETAIL - FLUSH MOUNT

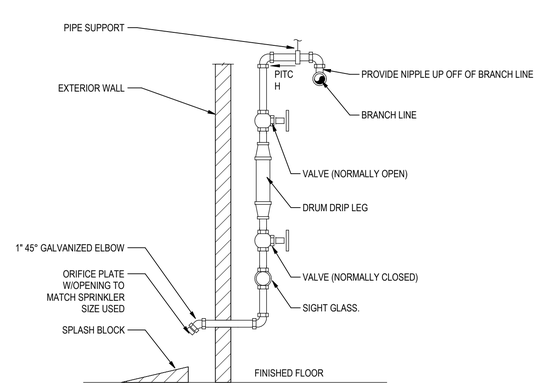
N.T.S



NOTES
1. LISTED FLEXIBLE SPRINKLER HOSE FITTINGS AND THEIR ANCHORING COMPONENTS INTENDED FOR USE IN INSTALLATIONS CONNECTING THE SPRINKLER SYSTEM PIPING TO SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LISTING, INCLUDING ANY INSTALLATION INSTRUCTIONS.
2. WHEN INSTALLED AND SUPPORTED BY SUSPENDED CEILINGS, THE CEILING SHALL MEET ASTM C 635 AND ASTM C 636.
3. THE FLEXIBLE SPRINKLER HOSE SHALL NOT EXCEED 3 FEET IN LENGTH.
4. ONLY ONE SIDE OF THE MOUNTING BRACKETS HAVE BEEN SHOWN.
5. DETAIL IS BASED ON VICTAULIC VIC-FLEX.

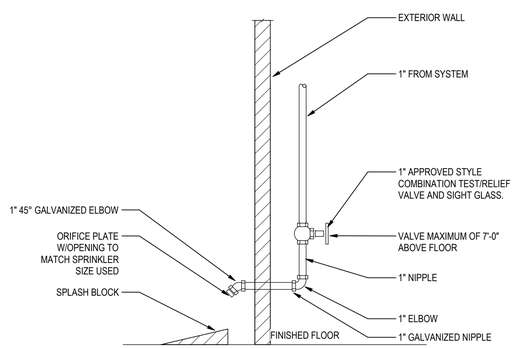
6 FP-500 FLEXIBLE SPRINKLER HEAD CONNECTION DETAIL

N.T.S.



7 FP-500 INSPECTOR'S TEST CONNECTIONS - DRY SYSTEM

N.T.S.



8 FP-500 INSPECTOR'S TEST CONNECTIONS - WET SYSTEM

N.T.S.

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Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	MP	MP	JHP	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

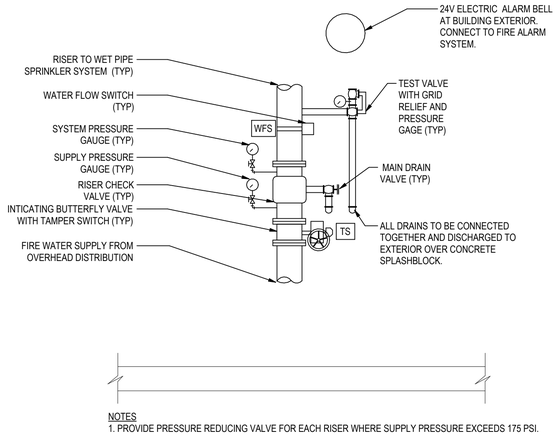
Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

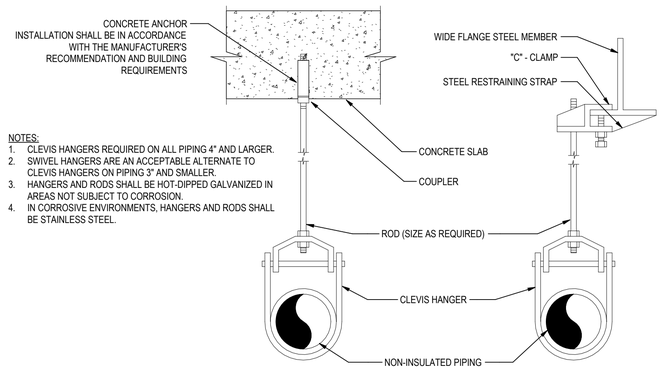
Title
FIRE PROTECTION DETAILS SHEET 1

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2024.07.23	FP-500



NOTES
1. PROVIDE PRESSURE REDUCING VALVE FOR EACH RISER WHERE SUPPLY PRESSURE EXCEEDS 175 PSI.

1 WET SPRINKLER RISER DETAIL
FP-501 N.T.S.



NOTES:
1. CLEVIS HANGERS REQUIRED ON ALL PIPING 4" AND LARGER.
2. SWIVEL HANGERS ARE AN ACCEPTABLE ALTERNATE TO CLEVIS HANGERS ON PIPING 3" AND SMALLER.
3. HANGERS AND RODS SHALL BE HOT-DIPPED GALVANIZED IN AREAS NOT SUBJECT TO CORROSION.
4. IN CORROSIVE ENVIRONMENTS, HANGERS AND RODS SHALL BE STAINLESS STEEL.

2 TYPICAL FIRE PROTECTION PIPE HANGER DETAIL
FP-501 N.T.S.

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Issued	By	Appd	YYYY.MM.DD
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DPW ADMIN BUILDING

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RYE, NY 10580

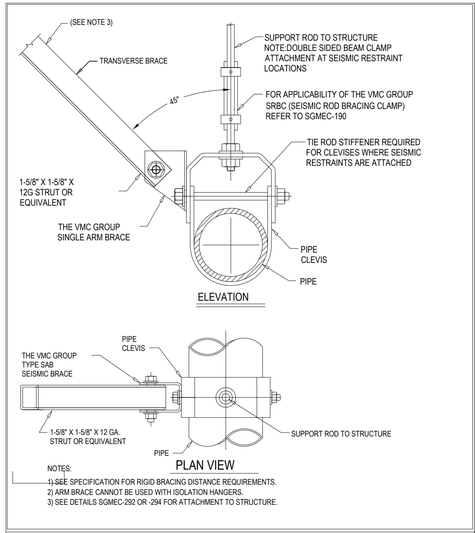
Title
FIRE PROTECTION DETAILS SHEET 2

Project No.
192311093

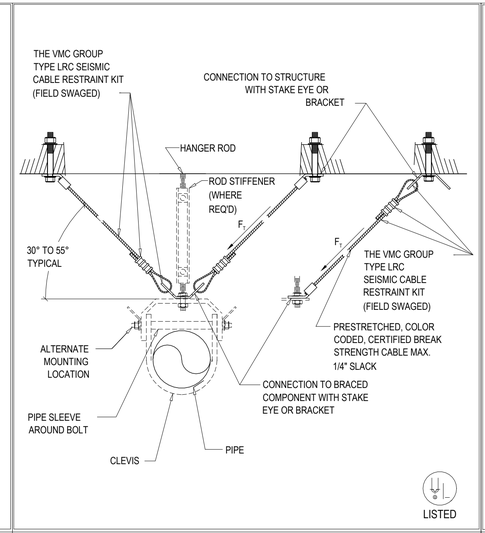
Scale
N.T.S.

Date
2024.07.23

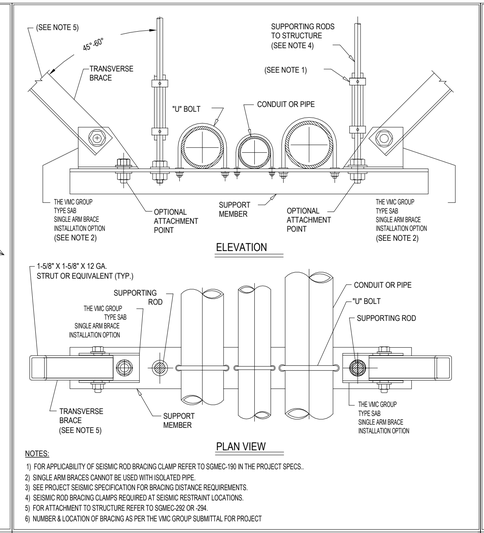
Drawing No.
FP-501



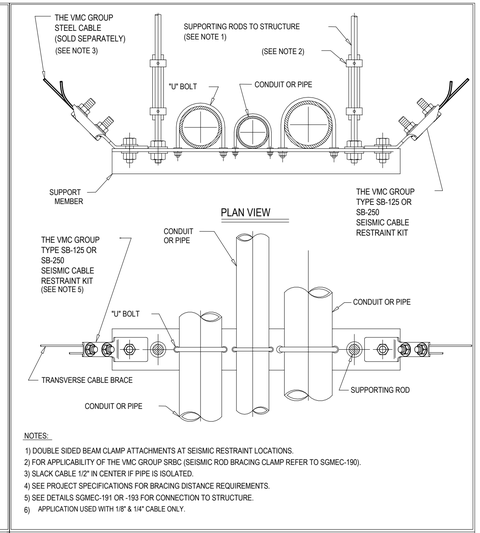
TYPICAL TRANSVERSE SINGLE ARM BRACE
FOR CLEVIS-HUNG PIPING & CONDUIT
THE VMC GROUP SPEC RESTRAINT TYPE VI
DRAWING SGMEC-210



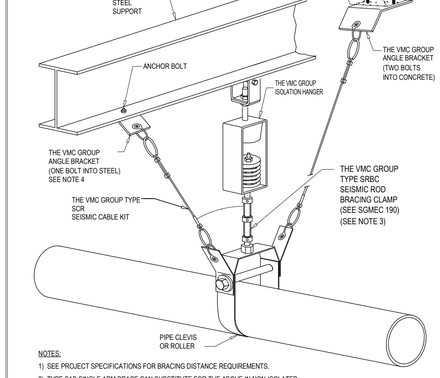
TYPICAL LRC SEISMIC CABLE BRACING
FOR TRANSVERSE CLEVIS RESTRAINT
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-504



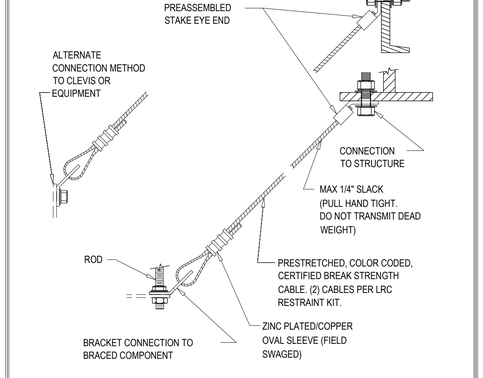
TYPICAL TRANSVERSE SINGLE ARM BRACE
FOR TRAPEZE-HUNG PIPING & CONDUIT
THE VMC GROUP SPEC RESTRAINT TYPE VI
DRAWING SGMEC-216



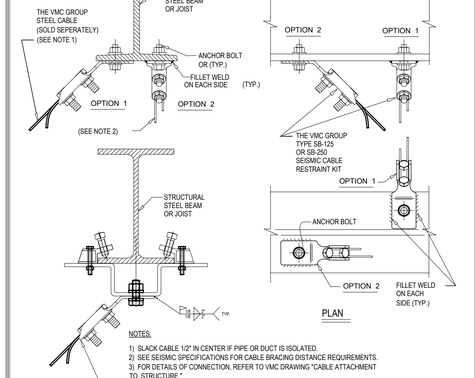
TYPICAL TRANSVERSE CABLE BRACING
FOR TRAPEZE-HUNG PIPING & CONDUIT
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-115



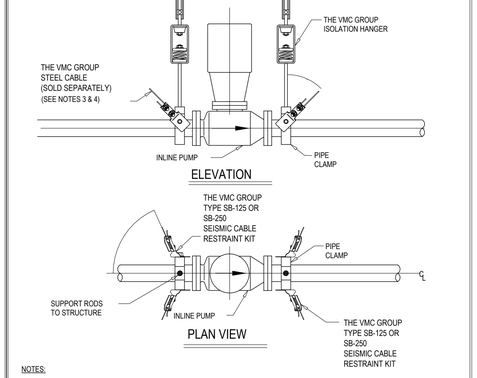
TYPICAL TRANSVERSE CABLE BRACING
OF CLEVIS- OR ROLLER-HUNG ISOLATED PIPE
THE VMC GROUP SPEC ISOLATOR TYPE C, D, E
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-102



LRC SEISMIC CABLE
RESTRAINT KIT
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-503



TYPICAL SEISMIC CABLE RESTRAINT ATTACHMENT
OF TYPE SB-125 OR SB-250 TO STRUCTURE
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-193



TYPICAL TRANSVERSE & LONGITUDINAL CABLE BRACING
FOR INLINE PUMPS
THE VMC GROUP SPEC ISOLATOR TYPE C, D, E
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-129

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JOSEPH H. PAVEL
096446
LICENSED PROFESSIONAL ENGINEER

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CITY OF RYE NY 1942

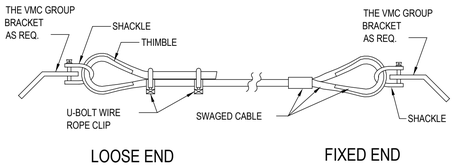
Client/Project
CITY OF RYE

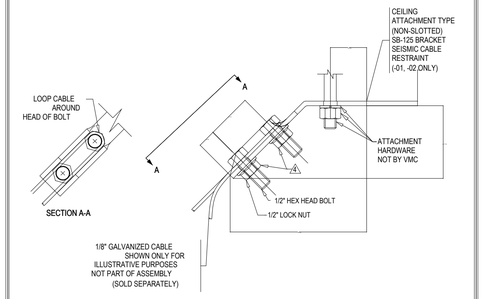
DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

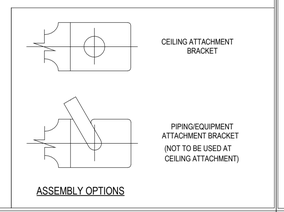
Title
FIRE PROTECTION DETAILS SHEET 3

Project No.	Scale
192311093	3/32" = 1'-0"
Date	Drawing No.
2024.07.23	FP-502

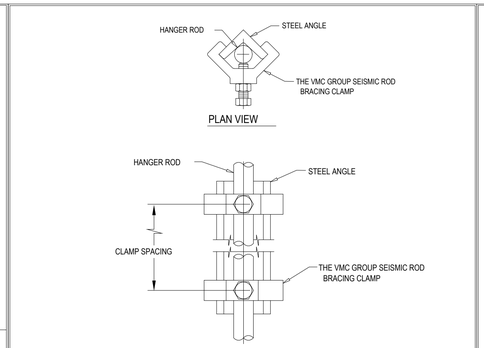




NOTES:
1) MATERIAL: C.R.S.
2) ZINC PLATE.
3) FIELD TORQUE 1/2" LOCK NUTS TO 75 FT. LBS.
4) 1 KIT CONSISTS OF:
2 SLOTTED BRACKETS
2 HOLED BRACKETS
8 BOLTS
8 SERRATED FLANGE NUTS
5) CABLE SOLD SEPERATELY.



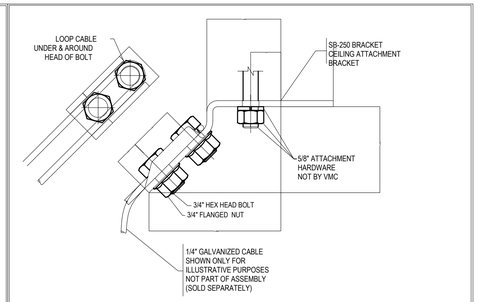
SCR SEISMIC CABLE RESTRAINT KIT
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-501



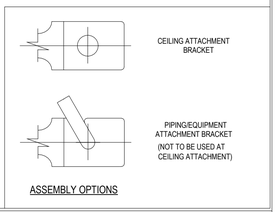
SRBC TABLE
VERTICAL HANGER ROD INSTALLATION DETAILS

VMC ROD BRACING CLAMP No.	ROD DIA (INCHES)	ROD LENGTHS OVER "X" INCHES	STEEL ANGLE SIZE (INCHES)	CLAMP SPACING	MIN # OF CLAMPS PER STIFFENER
SRBC - 1	3/8"	20"	1 X 1 X 1/4"	16"	3
SRBC - 1	1/2"	25"	1 X 1 X 1/4"	20"	3
SRBC - 1	5/8"	31"	1 X 1 X 1/4"	12"	3
SRBC - 1 1/2	3/4"	37"	1 1/2 X 1 1/2 X 1/4"	16"	3
SRBC - 1 1/2	7/8"	43"	1 1/2 X 1 1/2 X 1/4"	12"	4
SRBC - 1 1/2	1"	50"	1 1/2 X 1 1/2 X 1/4"	16"	4
SRBC - 1 1/2	1 1/8"	62"	1 1/2 X 1 1/2 X 1/4"	20"	4

SEISMIC ROD BRACING CLAMP
THE VMC GROUP SPEC RESTRAINT TYPE V, VI
DRAWING SGMEC-190

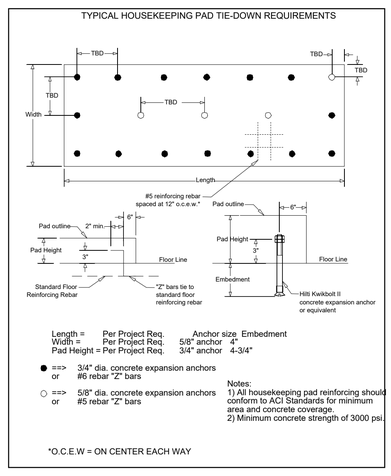


NOTES:
1) MATERIAL: COLD ROLLED STEEL
2) HARDWARE & BRACKETS ZINC ELECTROPLATE
3) FIELD TORQUE 3/4" FLANGE NUTS TO 100 FT.-LBS.
4) 1 KIT CONSISTS OF:
2 SLOTTED BRACKETS
2 HOLED BRACKETS
8 BOLTS
8 SERRATED FLANGE NUTS
5) CABLE SOLD SEPARATELY.



SB-250 SEISMIC CABLE RESTRAINT KIT
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-502

TYPICAL HOUSEKEEPING PAD TIE-DOWN REQUIREMENTS



Length = Per Project Req.
Width = Per Project Req.
Pad Height = Per Project Req.

Anchor size Embedment
5/8" anchor 4"
3/4" anchor 4-3/4"

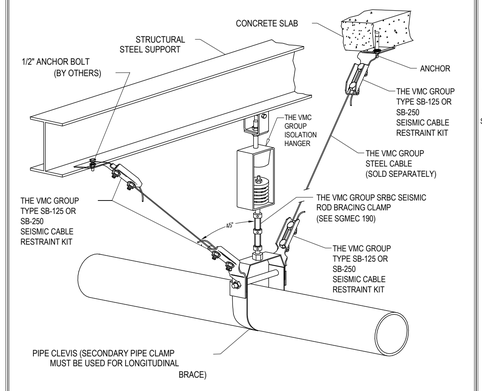
● ==> 3/4" dia. concrete expansion anchors or #6 rebar "Z" bars

○ ==> 5/8" dia. concrete expansion anchors or #5 rebar "Z" bars

Notes:
1) All housekeeping pad reinforcing should conform to ACI Standards for minimum area and concrete coverage.
2) Minimum concrete strength of 3000 psi.

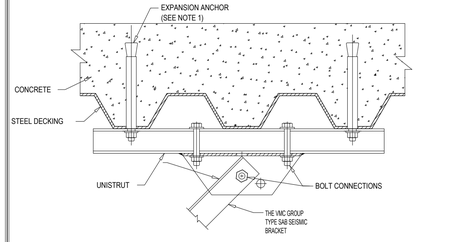
*O.C.E.W = ON CENTER EACH WAY

TYPICAL CALCULATION SHEET
FOR CONCRETE ANCHORS
SGMEC-800



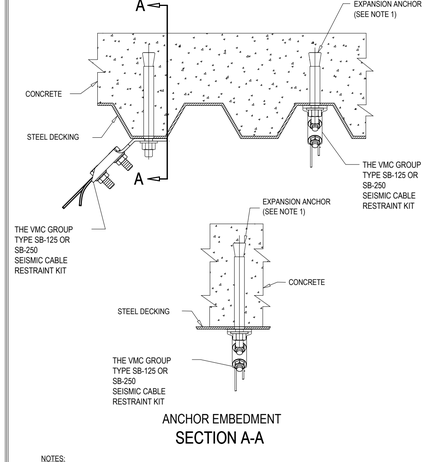
NOTES:
1) SEE PROJECT SPECIFICATIONS FOR BRACING DISTANCE REQUIREMENTS.
2) TYPE SAB SINGLE ARM BRACE CAN SUBSTITUTE FOR THE ABOVE IN NON-ISOLATED APPLICATIONS (ONE SIDE ONLY).
3) FOR APPLICABILITY OF SEISMIC ROD BRACING CLAMPS REFER TO THE SGMEC-190 IN THE PROJECT SPECIFICATIONS..
4) SB-125 ANGLE BRACKET CAN BE POSITIVELY ATTACHED TO BUILDING STEEL BY OTHER ACCEPTABLE METHODS.
5) APPLICATION USED WITH 1/8" & 1/4" CABLE ONLY.

TYPICAL TRANSVERSE CABLE BRACING
OF CLEVIS- OR ROLLER-HUNG ISOLATED PIPE
THE VMC GROUP SPEC ISOLATOR TYPE C, D, E
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-103



NOTES:
1) WEDGE-TYPE EXPANSION ANCHOR SIZE AND DEPTH TO BE DETERMINED BY CALCULATION.

TYPICAL SINGLE ARM BRACE
ATTACHMENT TO CONCRETE STRUCTURE
THE VMC GROUP SPEC RESTRAINT TYPE VI
DRAWING SGMEC-296



ANCHOR EMBEDMENT
SECTION A-A

NOTES:
1) WEDGE-TYPE EXPANSION ANCHOR SIZE AND DEPTH TO BE DETERMINED BY CALCULATION.
2) APPLICATION USED WITH 1/8" & 1/4" CABLE ONLY.

TYPICAL SEISMIC CABLE RESTRAINT ATTACHMENT
TO CONCRETE STUCTURE
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-191

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Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12
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DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
FIRE PROTECTION DETAILS SHEET 4

Project No.
192311093

Scale
3/32" = 1'-0"

Date
2024.07.23

Drawing No.
FP-503

PLOT DATE: 7/17/2024 3:10:54 PM
BM_50D

ORIGINAL SHEET - ANSI D

SPRINKLER HEAD SCHEDULE

DESIGNATION	TYPE	NOMINAL TEMPERATURE RATING (°F)	MAXIMUM AMBIENT CEILING TEMPERATURE (°F)	COVER ASSEMBLY TEMPERATURE RATING (°F)	NOMINAL K-FACTOR	MAXIMUM COVERAGE AREA (SQ.FT.)	RESPONSE	THERMAL ELEMENT	HEAD / ESCUTCHEON FINISH	BASIS OF DESIGN	SPRINKLER IDENTIFICATION NUMBER	REMARKS
A	CONCEALED PENDANT	155	100	135	5.6	225/130	QUICK	GLASS BULB	BRASS / WHITE	VIKING MIRAGE	VK4621	SEE NOTE 1
B	UPRIGHT	155	100	-	5.6	225/130	QUICK	GLASS BULB	BRASS	VIKING MICROFAST	VK300	SEE NOTES 1,2,3
C	DRY CONCEALED PENDANT	155	100	-	5.6	225/130	QUICK	GLASS BULB	BRASS /WHITE	VIKING	VK482	SEE NOTES 1,2,3
D	DRY SIDEWALL	155	100	-	8.0	100	QUICK	GLASS BULB	BRASS	VIKING	VK2753	SEE NOTES 1,2
E	SIDEWALL	155	100	-	5.6	100	QUICK	GLASS BULB	BRASS	VIKING	VK3051	SEE NOTES 1,2

NOTES:
1. INSTALL ALL SPRINKLER HEADS PER THE MANUFACTURER'S RECOMMENDATIONS AND UL/FM APPROVAL CONDITIONS.
2. SPRINKLERS IN AREAS WITH LOW CLEARANCE, UNDER 8'-0", SHALL BE PROTECTED WITH LISTED GUARDS.
3. USE INTERMEDIATE TEMPERATURE RATING FOR MECHANICAL ROOMS AND WHERE REQUIRED PER NFPA 13.

FIRE PROTECTION PIPING SYSTEM APPLICATION SCHEDULE

				PIPING MATERIAL				FITTINGS/JOINTS				CONSTRUCTION				
PIPING SYSTEM	PIPING SERVICE DESIGNATION	PIPING LOCATION	PIPE SIZE	DUCTILE IRON - CLASS 52 (NOTE 1)	BLACK STEEL - ASTM A53 - SCH. 40	BLACK STEEL - ASTM A53 - SCH. 10	GALV. STEEL - ASTM A53 - SCH. 40	MECHANICAL JOINT - CLASS 350	CUT GROOVED - 300 PSI FITTINGS	ROLL GROOVED - 300 PSI FITTINGS	SCREWED - CLASS 150 FITTINGS	OPERATING TEMPERATURE (°F)	MINIMUM WORKING PRESSURE (PSI)	TEST PRESSURE (PSI)	TEST DURATION (HRS)	ACCEPTANCE LEVEL
WET-PIPE SPRINKLER SYSTEM, STANDARD PRESSURE	FP	ABOVEGROUND	NPS 2 AND SMALLER		X						X	40 - 100	175	225	2 1/2	ZERO LOSS/LEAKS
			NPS 2 1/2 AND LARGER			X				X						
DRY-PIPE SPRINKLER SYSTEM, STANDARD PRESSURE	FP	ABOVEGROUND	NPS 2 AND SMALLER				X				X	40 - 100	175	225	2 1/2	ZERO LOSS/LEAKS
			NPS 2 1/2 AND LARGER				X			X						
DRAIN	DR	ABOVEGROUND	NPS 4 AND SMALLER				X		X		X	40 - 100	250	250	2 1/2	ZERO LOSS/LEAKS

NOTES:
1. DUCTILE IRON PIPING AND FITTINGS SHALL CONFORM TO AWWA C151, WITH INTERIOR CEMENT LINING PER AWWA C104, AND EXTERIOR BITUMINOUS COATING PER AWWA C110.

HYDRANT FLOW TEST DATA

DATE	TIME	STATIC PRESSURE (PSI)	RESIDUAL PRESSURE (PSI)	HYDRANT FLOW (GPM)	WATER MAIN SIZE	LOCATION OF PRESSURE HYDRANT	LOCATION OF FLOW HYDRANT	ELEVATION
8/3/2023	1:42pm	75	60	1126	-	31-201	31-202	-

NOTES:
1.

FIRE PROTECTION EQUIPMENT SCHEDULE

DESIGNATION	EQUIPMENT TYPE	DESCRIPTION
ACV-1	ALARM CHECK VALVE	ALARM CHECK VALVE WITH VERTICAL TRIM. DUCTILE IRON BODY, RUBBER-FACED CLAPPER WITH ACCESS COVER, RETARD CHAMBER, 300 PSI MAXIMUM WORKING PRESSURE. UL LISTED/FM APPROVED. BASIS OF DESIGN: VIKING MODEL J-1
DV-1	DRY VALVE	PRE-TRIMMED DRY VALVE.CLAPPER ASSEMBLY WITH A DIFFERENTIAL AIR-TO-WATER SEAT DESIGN. WATER MOTOR ALARM AND ELECTRIC PRESSURE ALARM SWITCH. 250 PSI WORKING PRESSURE. UL LISTED/FM APPROVED. BASIS OF DESIGN: DRY VALVE - VIKING MODEL VXR. ACCELERATOR - VIKING MODEL D-2. AIR COMPRESSOR - GENERAL AIR OL ADVANCE SERIES MODEL OLRV25033AC.

FIRE PROTECTION VALVE SCHEDULE

VALVE TYPE	1/2" TO 2"	2-1/2" TO 12"
OS&Y GATE	NIBCO T-104-0 (2" ONLY; 175 WWP)	NIBCO F-607-RWS (175 WWP) NIBCO F-697-0 (350 WWP) NIBCO F-667-0 (500 WWP)
BUTTERFLY	NIBCO LD-3510-8 (2" ONLY; 300 WWP)	NIBCO GD-6765-8N (350 WWP)
BALL	MILWAUKEE BUTTERBALL BB-SCS02 (350 WWP)	
CHECK	NIBCO F-908-W (175 WWP) NIBCO F-968-B (500 WWP)	
GATE	NIBCO F-607-RW (175 WWP) NIBCO F-967-0 (350 WWP) NIBCO F-667-0 (500 WWP)	

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	MP	MP	JHP	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

STATE OF NEW YORK · JOSEPH H. PAWLIK · 096446 · LICENSED PROFESSIONAL ENGINEER

Client/Project Logo

1660 · 1904 · CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
FIRE PROTECTION SCHEDULES

Project No.
192311093

Scale

Date
2024.07.23

Drawing No.
FP-600

PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
2. CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF CONSTRUCTION.
3. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE DEMOLITION PLAN AND THE CONSTRUCTION PLANS, CONSTRUCTION PLANS SHALL GOVERN.
4. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND FUNCTIONAL.
5. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH GENERAL CONTRACTOR FOR HANDLING MATERIALS, AS WELL AS FOR ALLOWABLE WORKING HOURS AND DELIVERIES.
6. PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH RESPECT TO ALL OTHER TRADES, INCLUDING STRUCTURE AND CEILING HEIGHTS. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL LAYOUTS, INCLUDING CEILING HEIGHTS.
7. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND MANUFACTURERS' CUTS AND SAMPLES TO ENGINEER AND ARCHITECT PRIOR TO COMMENCEMENT OF SUCH WORK.
8. DRAWINGS ARE NOT TO BE SCALED.
9. CONTRACTOR SHALL COMPLY WITH ALL BUILDING DEPARTMENT AND REGULATORY AGENCIES AND CODE REQUIREMENTS. BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS OF ALL TRADES.
10. CONTRACTOR SHALL CARRY AND DOCUMENT LIABILITY, ACCIDENT AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY OWNER AND GENERAL CONTRACTOR AND OBSERVE THEIR PERMITTED HOURS FOR WORK.
11. CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AREAS ADJACENT TO CONSTRUCTION AREAS, SHALL FULLY PROTECT THEM FROM ANY DAMAGE RESULTING FROM CONTRACTOR'S WORKMEN, SUBCONTRACTORS OR AGENTS, AND SHALL BE RESPONSIBLE FOR REPAIRING, CLEANING OR REPLACING ANY SUCH DAMAGE.
12. ALL DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
13. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE ALL WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
14. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURERS' DIRECTIONS WITH APPLICABLE CODES, INSTRUCTIONS AND RECOMMENDATIONS FOR ALL MATERIALS AND PROCESSES USED IN THIS CONTRACT. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
15. UPON COMPLETION OF THE WORK, COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE, INCLUDING REMOVAL OF ALL LABELS (AFTER ARCHITECT'S AND ENGINEER'S INSPECTION), CLEANING OF ALL THE EQUIPMENT, CONSTRUCTION WORK, WINDOWS AND OTHER WORK, NEW AND OLD, IN THAT CONSTRUCTION AREA. MAINTENANCE MANUAL SHALL BE PROVIDED TO THE OWNER.
16. BUILDING DEPARTMENT APPROVED PLANS SHALL BE TURNED OVER TO OWNER AT THE COMPLETION OF THE JOB.
17. AT THE FINAL COMPLETION OF THE JOB, CONTRACTOR SHALL SUBMIT TO THE OWNER AND TO ENGINEER A NOTARIZED AFFIDAVIT STATING COMPLIANCE WITH ALL PROVISIONS OF THIS CONTRACT, INCLUDING ALL NOTES, EXCEPT FOR THOSE CHANGES SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT.
18. VACUUM BREAKER AND RELATED PIPING SHALL BE INSTALLED BEHIND WALLS. PROVIDE AN ACCESS PANEL TO THE VACUUM BREAKER. ALL EXPOSED PIPING IN FINISHED SPACES SHALL BE STEEL WITH CHROME PLATED FINISH.
19. CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT FOR ONE YEAR, STARTING FROM DATE OF FINAL COMPLETION OF ALL WORK.
20. PROVIDE CLEANOUTS FOR CHANGES IN DIRECTION FOR ALL SANITARY AND STORM WATER PIPING.
21. CONTRACTOR SHALL COORDINATE ALL FLOOR CORING SLEEVES AND FLOOR OPENINGS WITH STRUCTURAL DRAWINGS.
22. ALL EXPOSED PIPING PENETRATIONS THROUGH WALLS OR CEILINGS SHALL BE PROVIDED WITH APPROPRIATE FIRE RETARDANT SEALANT AND ESCUTCHEONS.
23. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
24. PLATFORMS, CURBS, AND FLASHINGS 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.
25. PROVIDE DRAIN DRIP PANS UNDER ALL PLUMBING DRAINAGE PIPING TO BE INSTALLED WITHIN THE ELECTRICAL AND TELEPHONE EQUIPMENT, KITCHEN, PANTRY OR FOOD PREPARATION AND DINING ROOM CEILINGS. PROVIDE TELLTALE DRAINAGE PIPE AND SPILL OVER FLOOR DRAIN OR SERVICE SINK.
26. PROVIDE ACCESS DOORS FOR SHUTOFF VALVES, WATER HAMMER ARRESTORS, HOT WATER RETURN BALANCING RIGS, TRAP PRIMERS AND CLEANOUTS.
27. CONTRACTOR TO PROVIDE WATER HAMMER ARRESTORS PRIOR TO ALL QUICK CLOSING VALVES.

ENERGY CONSERVATION CODE NOTES

1. ALL PLUMBING SYSTEMS AND EQUIPMENT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE 2020 NEW YORK STATE BUILDING CODE, 2020 NEW YORK STATE PLUMBING CODE, 2020 NEW YORK STATE ENERGY CONSERVATION CODE.
2. SERVICE WATER-HEATING EQUIPMENT PERFORMANCE EFFICIENCY FOR WATER-HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE C404.2 AS REQUIRED BY IECC SECTION C404.2.
3. WATER-HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVICING NON-CIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH THE EQUIPMENT AS REQUIRED BY IECC SECTION C404.3.
4. DOMESTIC HOT WATER PIPING SHALL BE INSULATED WITH NOT LESS THAN THE THICKNESS AND CONDUCTIVITY SHOWN IN IECC TABLE C403.2.10 AS REQUIRED BY IECC SECTION C404.4.
5. HEATED-WATER SUPPLY PIPING SHALL BE INSTALLED EFFICIENTLY IN ACCORDANCE WITH IECC SECTION 404.5.
6. HEATED-WATER CIRCULATING AND TEMPERATURE MAINTENANCE SYSTEMS AND CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH IECC SECTION 404.6.

HYDRANT FLOW TEST

TEST LOCATION: OAKLAND BEACH AVE. @ DISBROW PARK, RYE.
DATE: AUGUST 3, 2023.
TIME: 1:42 PM.
RESIDUAL HYDRANT: 31-201.
FLOWING HYDRANT: 31-202.
STATIC PRESSURE: 75 PSI
RESIDUAL PRESSURE: 60 PSI
DISCHARGE RATE: 1126 GPM
AVAILABLE FLOW @ 20 PSI: 2270 GPM

PLUMBING CODE NOTES

1. THE PLUMBING SYSTEMS (SANITARY, WASTE, VENT, STORM, DOMESTIC WATER DISTRIBUTION, ETC.) AND ALL ASSOCIATED EQUIPMENT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE 2020 NEW YORK STATE BUILDING CODE (NYSBC), 2020 NEW YORK STATE PLUMBING CODE (NYSPC).
2. ALL PLUMBING WORK SHALL COMPLY WITH CHAPTER 4 OF THE 2020 NEW YORK STATE BUILDING CODE AND CHAPTERS 1 THROUGH 13 AND APPENDICES A THROUGH G OF THE NEW YORK STATE PLUMBING CODE.
3. ALL PLUMBING WORK SHALL COMPLY WITH THE GENERAL REGULATIONS SET FORTH IN CHAPTER 3 OF THE NEW YORK STATE PLUMBING CODE.
4. PLUMBING SYSTEMS SHALL BE INSTALLED TO PREVENT RODENTS FROM ENTERING STRUCTURES AS PER 2020 NYSPC SECTION 304.
5. PLUMBING PIPING AND PLUMBING SYSTEM COMPONENTS SHALL BE PROTECTED AS OUTLINED IN 2020 NYSPC SECTION 305.
6. ALL TRENCHING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF 2020 NYSPC SECTION 306.
7. ALL VERTICAL AND HORIZONTAL PLUMBING PIPING SHALL BE SUPPORTED AS PER THE PROJECT SPECIFICATIONS AND IN COMPLIANCE WITH THE REQUIREMENTS OF 2020 NYSPC SECTION 308.
8. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKERS AS PER 2020 NYSPC SECTION 311.
9. THE INSTALLATION OF PLUMBING FIXTURES, FAUCETS AND FIXTURE FITTINGS SHALL BE IN ACCORDANCE WITH 2020 NYSPC SECTIONS 401 THROUGH 427.
10. ALL CONNECTIONS BETWEEN DRAINAGE PIPING AND PLUMBING FIXTURES SHALL CONFORM TO 2020 NYSPC SECTION 405.
11. WATER HEATERS SHALL BE INSTALLED IN ACCORDANCE WITH 2020 NYSPC SECTIONS 501 THROUGH 505. THE HOT WATER DISTRIBUTION SYSTEM AND RETURN CIRCULATION SYSTEM SHALL BE INSTALLED AND COMPLY WITH 2020 NYSPC SECTION 607.
12. THE WATER SUPPLY AND DISTRIBUTION SYSTEM SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH 2020 NYSPC SECTIONS 601 THROUGH 613.
13. VALVES SHALL BE PROVIDED AS PER 2020 NYSPC SECTION 606.
14. THE POTABLE WATER SUPPLY SHALL BE PROTECTED AS INDICATED IN 2020 NYSPC SECTION 608.
15. BACKFLOW PROTECTION OF THE POTABLE WATER SUPPLY SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 2020 NYSPC SECTIONS 608.13 THROUGH 608.16, AND SECTION 301.4.
16. NEW POTABLE WATER SYSTEMS SHALL BE PURGED AND DISINFECTED PRIOR TO UTILIZATION IN ACCORDANCE WITH 2020 NYSPC SECTION 610 AS AMMENDED BY NYS.
17. THE SANITARY DRAINAGE SYSTEM SHALL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH SECTIONS PC701 THROUGH PC717.
18. THE MATERIALS USED IN THE PLUMBING SYSTEM SHALL BE PROVIDED IN FULL ACCORDANCE WITH 2020 NYSPC SECTION 605 AND 2020 NYSPC SECTION 702.
19. ALL JOINTS IN SANITARY/WASTE, VENT, & STORM WATER DRAINAGE PIPING SYSTEMS SHALL CONFORM TO 2020 NYSPC SECTION 705.
20. ALL CONNECTIONS AND CHANGES IN DIRECTION BETWEEN DRAINAGE PIPING AND FITTINGS SHALL CONFORM TO 2020 NYSPC SECTION 706.
21. CLEANOUTS SHALL BE INSTALLED IN SANITARY/WASTE AND STORM DRAINAGE PIPING AS PER SECTION PC708 AND PC1101.8.
22. INDIRECT, SPECIAL AND MISCELLANEOUS PIPING SHALL BE INSTALLED AS DIRECTED AND IN FULL COMPLIANCE WITH 2020 NYSPC SECTIONS 801 THROUGH 804.
23. THE DISCHARGE FROM A COMMERCIAL DISHWASHING MACHINE SHALL BE THROUGH AN AIR GAP OR AIR BREAK INTO A STANDPIPE OR WASTE RECEPTOR AS PER 2020 NYSPC SECTION 802.1.7.
24. THE SANITARY VENTING SYSTEM SHALL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH 2020 NYSPC SECTIONS 901 THROUGH PC920.
25. VENTS FOR SANITARY/WASTE STACK OFFSETS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION PC907.
26. CIRCUIT VENTING SHALL BE PROVIDED IN ACCORDANCE WITH 2020 NYSPC SECTION 914.
27. TRAPS FOR FIXTURES SHALL BE INSTALLED IN FULL COMPLIANCE WITH 2020 NYSPC SECTION 1002.
28. STORM DRAINAGE PIPING SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 2020 NYSPC SECTIONS 1101 THROUGH 1113.
29. SPECIAL PIPING AND STORAGE SYSTEMS SHALL BE INSTALLED AS DIRECTED IN 2020 NYSPC SECTIONS 1201 THROUGH 1203.

SEISMIC SUPPORT

CONTRACTOR SHALL SUPPORT ALL MECHANICAL, ELECTRICAL, PLUMBING, SPRINKLER, STANDPIPE, FIRE ALARM, AND ALL LOW VOLTAGE WORK AS REQUIRED FOR NY STATE SEISMIC DESIGN CATEGORY C FOR THIS FACILITY, WHICH HAS AN IMPORTANCE FACTOR OF 1.5.

UTILIZE VMC GROUP HANGERS AND SUPPORT SYSTEMS OR PRE-APPROVED EQUAL. SUBMIT DEVICES FOR ENGINEERS REVIEW. REFER TO DRAWING DETAILS AND SPECIFICATIONS FOR ADDITIONAL SEISMIC SUPPORT & CONTROL REQUIREMENTS.

ALL EQUIPMENT REQUIRED TO BE SEISMICALLY RATED SHALL BE RATED PER REQUIREMENTS REFERENCED IN THE 20020 NYS BUILDING CODE AND ALL APPLICABLE STANDARDS THEREIN. WHERE EQUIPMENT AND OR/PREFABRICATED ASSEMBLIES REQUIRE SEISMIC COMPLIANCE, CURRENT IBC CERTIFICATES OF COMPLIANCE SHALL SHALL BE PROVIDED FOR ALL MANUFACTURED COMPONENTS BY THE EQUIPMENT MANUFACTURER.

THESE DESIGN DOCUMENTS, INCLUDING DRAWINGS AND SPECIFICATIONS DO NOT FULLY REFLECT THE SEISMIC CONSIDERATIONS REQUIRED FOR THIS PROJECT THROUGH-OUT THE DESIGN DOCUMENTS PACKAGE. SEISMIC CONSIDERATIONS FOR THIS PROJECT ARE IDENTIFIED IN THIS NOTE, THE SEISMIC SPECIFICATIONS AND THE DRAWING SEISMIC DETAILS DRAWING SHEET(S).

THE SEISMIC DETAILS INCLUDES SUGGESTED DETAILS TO BE FOLLOWED FOR THE CONSTRUCTION OF THE PROJECT. ALTERNATE DETAILS ARE ACCEPTABLE AS LONG AS THEY MEET THE CERTIFICATION AND ANALYSIS SECTION OF THE PROJECT'S SEISMIC SPECIFICATION.

THIS TRADE CONTRACTOR SHALL SUBMIT SEISMIC SUPPORT DESIGN PACKAGE, SIGNED AND SEALED BY A LICENSED NYS PROFESSIONAL ENGINEER, FOR REVIEW BY STANTEC. SEISMIC DESIGN IS DELEGATED TO THE NYS PE HIRED BY THIS TRADE CONTRACTOR FOR ALL OF THIS TRADE CONTRACTOR'S WORK.

1.01 SEISMIC RESTRAINT

A. ALL EQUIPMENT AND SYSTEMS, WHETHER ISOLATED OR NOT, SHALL BE BOLTED TO STRUCTURE TO ALLOW FOR MINIMUM 0.75 "G" OF ACCELERATION. BOLT POINTS AND DIAMETER OF INSERTS SHALL BE SUBMITTED AND VERIFIED AS PART OF THE CONTRACTOR'S SUBMISSION FOR EACH PIECE OF EQUIPMENT AND CERTIFIED BY A LICENSED CIVIL OR STRUCTURAL ENGINEER. FIXINGS THAT RELY UPON FRICTION DUE TO GRAVITATIONAL FORCES ARE NOT PERMITTED.

1. WHERE REQUIRED, SEISMICALLY RESTRAIN ALL DISTRIBUTION WITH CENTER BRACING OR TYPE II RESTRAINING SYSTEM IN ACCORDANCE WITH NEW YORK STATE CODE.

2. SEISMIC RESTRAINTS ARE NOT REQUIRED FOR: N/A.

PLUMBING ABBREVIATIONS

AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BOP	BOTTOM OF PIPE
BWS	BUILDING WATER SERVICE
CF	CUBIC FEET
CO	CLEAN OUT
COWP	CLEAN OUT WALL PLATE
CP	CONTROL PANEL
CW,DCW	DOMESTIC COLD WATER
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV	DOUBLE CHECK VALVE
DN	DOWN
E	EXISTING TO REMAIN
EL	ELEVATION
ET, DET	DOMESTIC WATER EXPANSION TANK
EWC	ELECTRIC WATER COOLER
F	FIRE SERVICE
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
HB	HOSE BIBB
HS	HAND SINK
HW	DOMESTIC HOT WATER
HWH	HOT WATER HEATER
HWR	DOMESTIC HOT WATER RETURN
HWT	HOT WATER STORAGE TANK
HVAC	HEATING, VENTILATION & AIR CONDITIONING
IW	INDIRECT WASTE
KS	KITCHEN SINK
LAV	LAVATORY
MICV	METER INLET CONTROL VALVE
MOCV	METER OUTLET CONTROL VALVE
MS, MSB	MOP SINK BASIN
NFWH	NON-FREEZE WALL HYDRANT
NTS	NOT TO SCALE
ODO	OVERFLOW DRAIN OUTLET
OS&Y	OUTSIDE SCREW & YOKE
OW	OIL WASTE
PG	PRESSURE GAUGE
PLMB	PLUMBING
PS	PANTRY SINK
REF	REFRIGERATOR
RPZ	REDUCED PRESSURE ZONE BFP ASSEMBLY
SAN	SANITARY
SF	SQUARE FEET
SK	SINK
SPD	STANDPIPE DRAIN
ST	STORM
STO	STORM OVERFLOW
TH	THERMOMETER
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UR	URINAL
V	VENT
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WHA	WATER HAMMER ARRESTOR
WM	WATER METER

SEISMIC SUPPORT (CONTINUED)

3. WHERE BASE ANCHORING IS INSUFFICIENT TO RESIST SEISMIC FORCES, ETC., SEISMIC RESTRAINT SYSTEM TYPE II SHALL BE USED ABOVE SYSTEM'S CENTER OF GRAVITY TO SUITABLY RESIST "G" FORCE LEVELS.

4. FOR OVERHEAD SUPPORTED EQUIPMENT, OVERSTRESS OF THE BUILDING STRUCTURE MUST NOT OCCUR. BRACING CAN OCCUR FROM:

a. FLANGES OF STRUCTURAL BEAMS.
b. UPPER OR LOWER TRUSS CHORDS IN BAR JOISTS CONSTRUCTION AT THE PANEL POINTS.
c. CAST-IN-PLACE INSERTS OR DRILLED AND SHIELDED INSERTS IN CONCRETE STRUCTURES

5. GRAVITY OR "C" CLAMPS ARE NOT PERMITTED FOR SUSPENSION OR RESTRAINT OF EQUIPMENT.

6. ALL STRUCTURALLY SUSPENDED OVERHEAD EQUIPMENT ISOLATED OR UN-ISOLATED SHALL BE FOUR-POINT INDEPENDENTLY BRACED WITH TYPE II SEISMIC RESTRAINING SYSTEM.

7. SEISMIC RESTRAINTS:

a. ALL SEISMIC RESTRAINTS SHALL BE CAPABLE OF SAFELY ACCEPTING 0.75 "G" EXTERNAL FORCES WITHOUT FAILURE AND SHALL MAINTAIN EQUIPMENT, AND ASSOCIATED DISTRIBUTION IN A CAPTIVE POSITION. SEISMIC RESTRAINTS SHALL NOT SHORT CIRCUIT ISOLATION SYSTEMS OR TRANSMIT OBJECTIONABLE VIBRATION OR NOISE, AND SHALL BE PROVIDED ON ALL EQUIPMENT AS SCHEDULED ON DESCRIBED HERE. CALCULATION BY REGISTERED STRUCTURAL OR CIVIL ENGINEER SHALL BE SUBMITTED TO VERIFY SNUBBER CAPACITIES FOR EACH PIECE OF EQUIPMENT.
b. EQUIPMENT MOUNTED ON SPRINGS DOES NOT REQUIRE ADDITIONAL SEISMIC RESTRAINTS, PROVIDING THAT THE SPRING MOUNTINGS

(I) COMPLY WITH GENERAL CHARACTERISTICS OF SPRING ISOLATORS.
(II) HAVE VERTICAL LIMIT STOPS AND ARE CAPABLE OF SUPPORTING EQUIPMENT AT FIXED ELEVATION DURING EQUIPMENT ERECTION.
(III) INCORPORATE SEISMIC SNUBBING RESTRAINT IN ALL DIRECTIONS AT SPECIFIED ACCELERATION

8. SEISMIC RESTRAINT TYPES A.

a. SEISMIC RESTRAINTS TYPE I

(I) EACH CORNER OR SIDE SEISMIC RESTRAINT SHALL INCORPORATE MINIMUM .625 INCH THICK PAD LIMIT STOPS. RESTRAINTS SHALL BE MADE OF PLATE, STRUCTURAL MEMBERS OR SQUARE METAL TUBING IN A WELDED ASSEMBLY, INCORPORATING RESILIENT PADS. ANGLE BUMPERS ARE NOT ACCEPTABLE. SYSTEM TO BE FIELD BOLTED TO DECK WITH 0.75 "G" ACCELERATION CAPACITY.
(II) SEISMIC SPRING MOUNTINGS AS DESCRIBED ABOVE ARE AN ACCEPTABLE ALTERNATIVE, PROVIDING ALL SEISMIC LOADING REQUIREMENTS ARE MET
(III) VMC GROUP, AS INDICATED ON SEISMIC DETAIL SHEET OR AS APPROVED.

b. SEISMIC RESTRAINT TYPE II

(I) METAL CABLE TYPE WITH APPROVED FASTENING DEVICES TO EQUIPMENT AND STRUCTURE. SYSTEM TO BE FIELD BOLTED TO DECK OR OVERHEAD STRUCTURAL MEMBERS OR DECK WITH AIRCRAFT CABLE AND CLAMPS PER SMACNA AND/OR OTHER APPLICABLE GUIDELINES.

PLUMBING SYMBOLS

- NEW WORK
- DEMOLITION
- EXISTING
- SANITARY OR WASTE PIPING (SAN)
- VENT PIPING (SV)
- COLD WATER PIPING (DCW)
- HOT WATER PIPING (DHW)
- HOT WATER RETURN PIPING (DHWR)
- STORM DRAINAGE PIPING (ST)
- STORM OVERFLOW DRAINAGE PIPING (STO)
- OIL WASTE DRAINAGE PIPING (OW)
- PROPANE GAS PIPING (LPG)
- DETAIL REFERENCE IN 400 SERIES DRAWINGS (XXX / P500)
- POINT OF CONNECTION TO EXISTING
- POINT OF DISCONNECT
- PIPE UP
- PIPE DROP/DOWN
- PIPE SLEEVE
- BOTTOM CONNECTION DROP
- CIRCULATOR PUMP
- PIPE CLEANOUT
- BREAK
- HOT WATER BALANCING VALVE RIG
- AREA, FLOOR, ROOF DRAIN, OVERFLOW DRAIN
- GAS VALVE
- BALL VALVE
- CHECK VALVE
- OS&Y VALVE WITH TAMPER SWITCH
- OS&Y VALVE
- GATE VALVE
- VACUUM BREAKER
- TRAP PRIMER (TP)
- WATER FILTER (F)
- SOLENOID VALVE (S)
- HOSE BIBB
- PRESSURE REDUCING VALVE (PRV)
- WATER HAMMER ARRESTOR

SEISMIC DESIGN CRITERIA

SEISMIC RISK CATEGORY	**IV**
SEISMIC IMPORTANCE FACTOR, Ie	1.5
MAPPED SPECTRAL RESPONSE Sms AND Sm1	.444/.144
SEISMIC SITE CLASS	D
DESIGN SPECTRAL RESPONSE Sds AND Sd1	.296/.096
SEISMIC DESIGN CATEGORY	**C**
BASIC SEISMIC FORCE - RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR(S)	0.170 x W
SEISMIC RESPONSE COEFFICIENT(S), CS.	.0170
RESPONSE MODIFICATION COEFFICIENT, R.	2.00
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE

NOTES:
1. STRUCTURAL DESIGN INFORMATION INCLUDED FOR REFERENCE ONLY. SEE STRUCTURAL DESIGN DRAWINGS.
2. **SEISMIC BRACING SHALL BE PROVIDED PER NEW YORK STATE BUILDING CODE, NEW YORK STATE PLUMBING CODE, NEW YORK STATE FUEL GAS CODE, AND ASCE 7.**

SPECIAL INSPECTIONS

- POST INSTALLED CONCRETE MEMBERS - ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLINED TO RESIST SUSTAINED TENSION LOADS. ACI 318: 17.8.2.4 1705.3
- SEISMIC: PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS. 1705.12.
- DESIGNATED SEISMIC SYSTEMS: ASCE 7 SECTION 13.2.2 1705.13.3
- FIRE-RESISTANT PENETRATIONS AND JOINTS [BF] HIGH RISE BUILDING OR BUILDINGS ASSIGNED TO RISK CATEGORY III OR IV ASTM E2174 ASTM E2393 1705.17

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	MP	MP	JHP	2024.07.23
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STATE OF NEW YORK · JOSEPH H. PAWLE · 096446 · LICENSED PROFESSIONAL ENGINEER

Client/Project Logo

1660 · 1904 · CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
PLUMBING LEAD SHEET

Project No.	Scale
192311093	12" = 1'-0"
Date	Drawing No.
2024.07.23	P-000

Rm: 500
8/7/2024 3:10:04 PM

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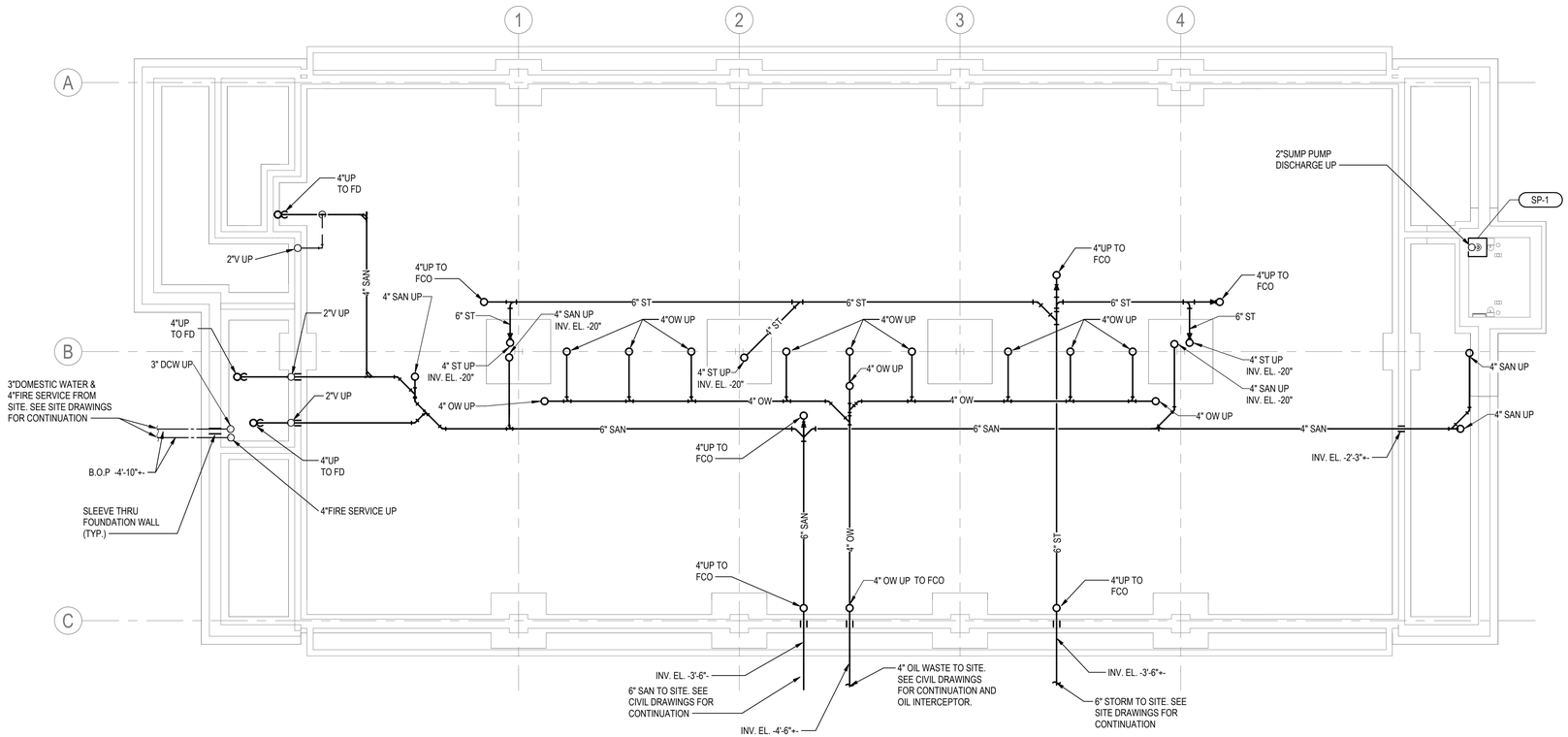

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ISSUE FOR BID	MG	-	2024.09.12
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	MP	MP	JHP	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
PLUMBING UNDERSLAB PLAN

Project No.
192311093

Scale
1/8" = 1'-0"

Date
2024.07.23

Drawing No.
P-100

PLOT DATE:
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D

C

B

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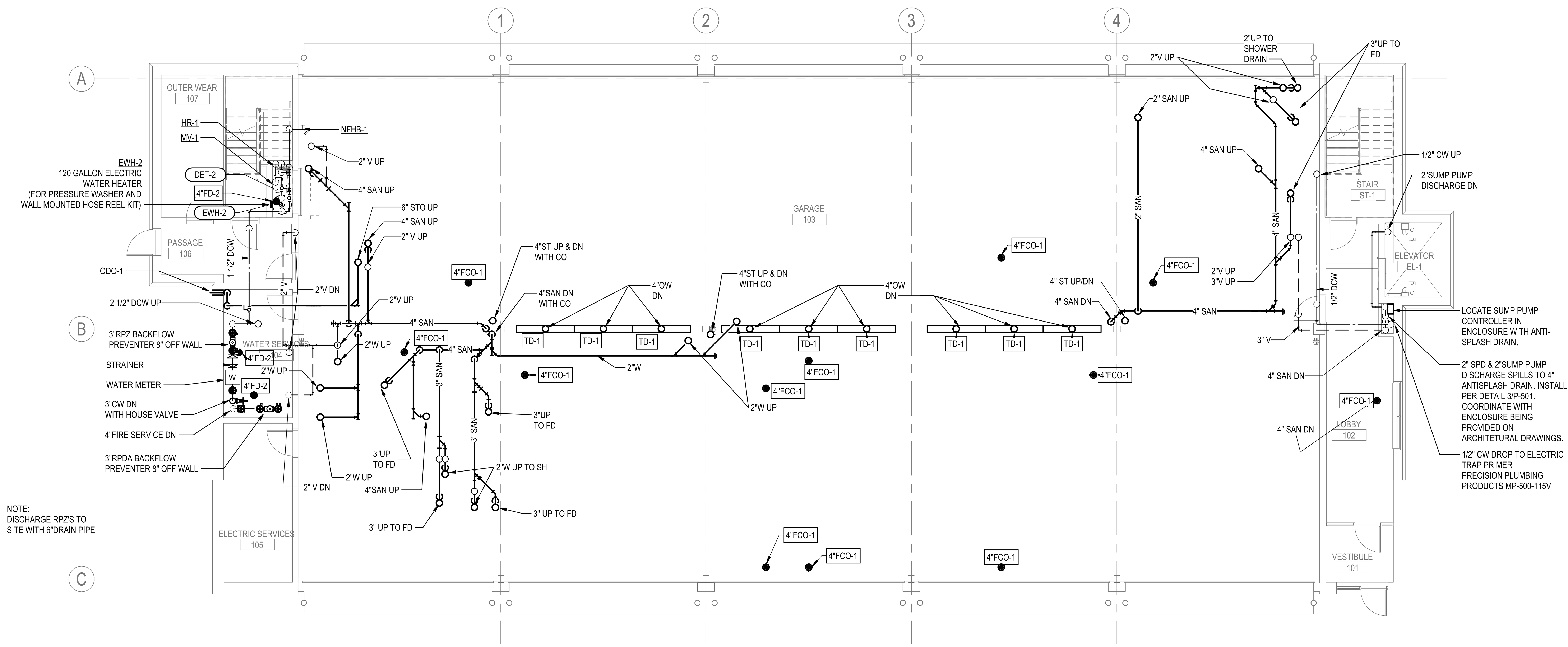

1
P-101

PLUMBING FIRST FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES

KEYNOTES

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

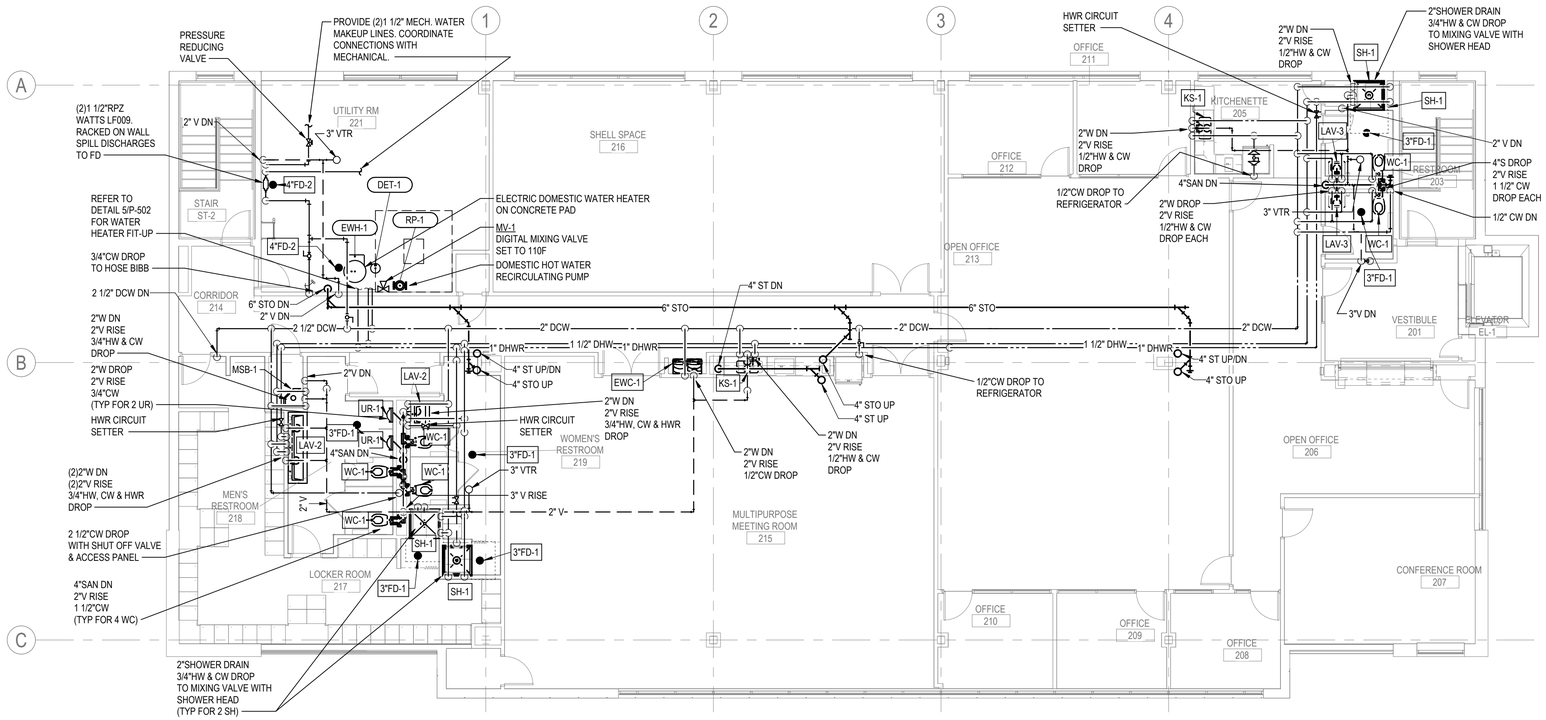
Title
PLUMBING FIRST FLOOR PLAN

Project No.
192311093

Scale
1/8" = 1'-0"

Date
2024.07.23

Drawing No.
P-101



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DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
PLUMBING SECOND FLOOR PLAN

Project No.
192311093

Scale
1/8" = 1'-0"

Date
2024.07.23

Drawing No.
P-102

Rev. Date
07/17/2024 3:11:09 PM

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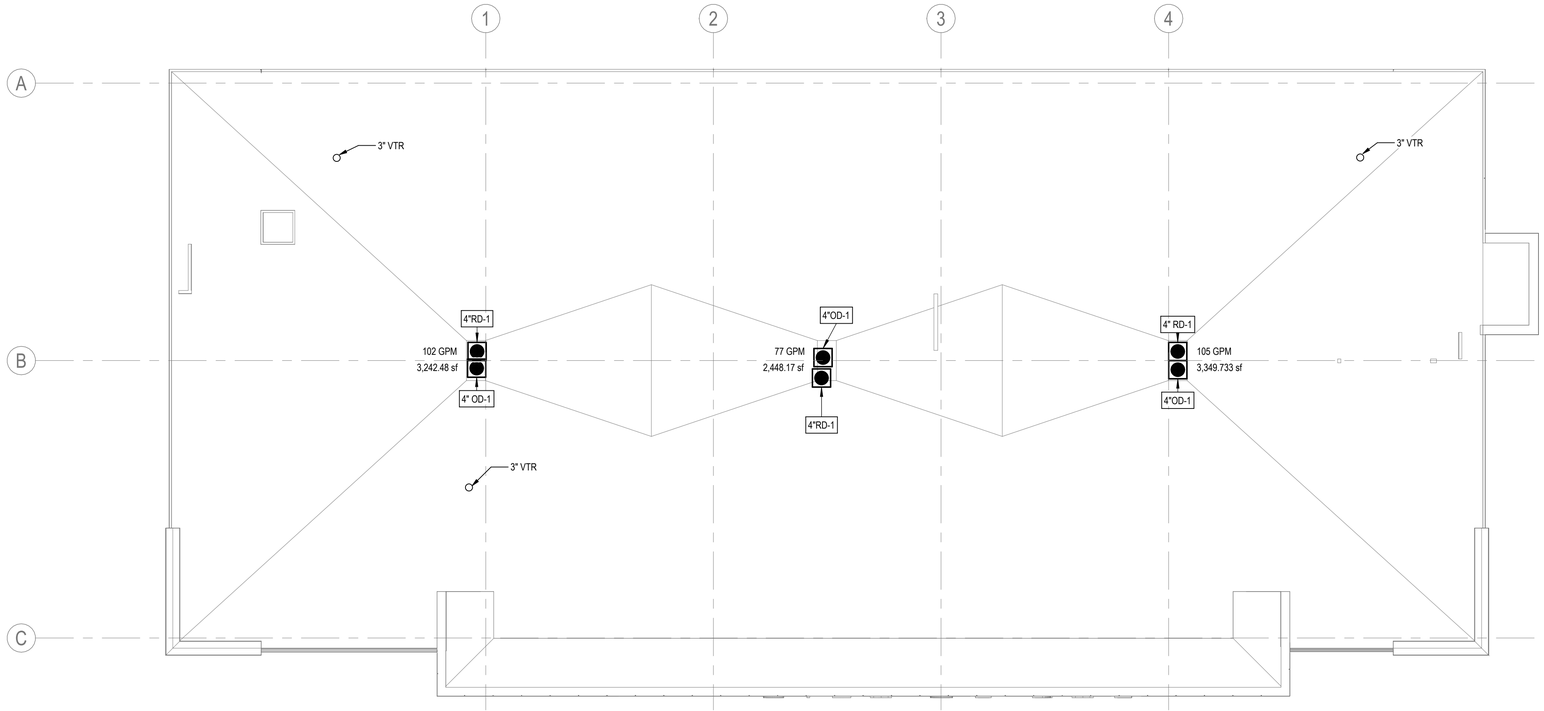

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096446
LICENSED PROFESSIONAL ENGINEER

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Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
PLUMBING ROOF PLAN

Project No.	Scale
192311093	1/8" = 1'-0"
Date	Drawing No.
2024.07.23	**P-103**

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9/17/2024 5:11:00 PM

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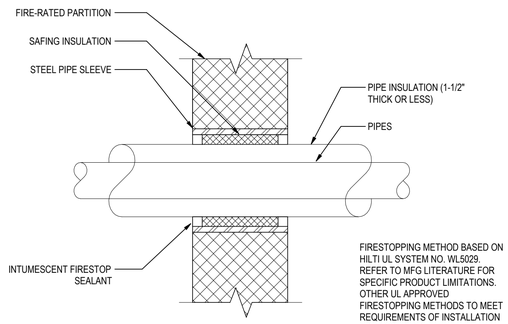
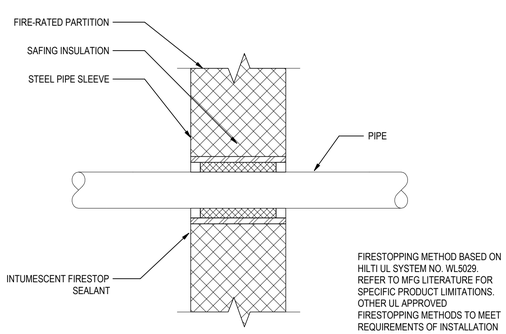


1 P-500 FIRESTOPPED, INSULATED PIPE PENETRATION OF RATED PARTITIONS

N.T.S



2 P-500 FIRESTOPPED, UNINSULATED PIPE PENETRATIONS OF RATED PARTITIONS

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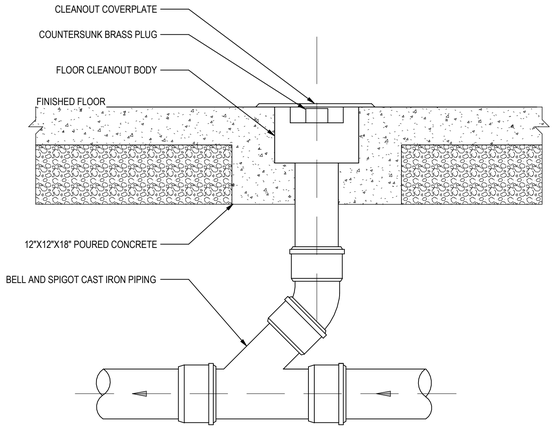
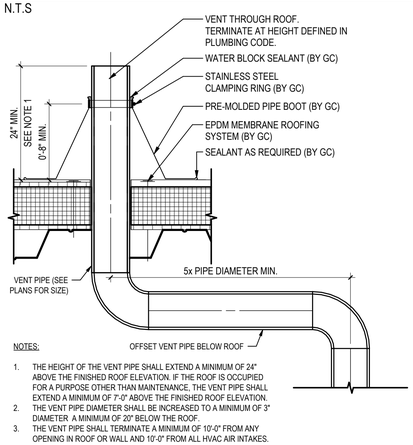


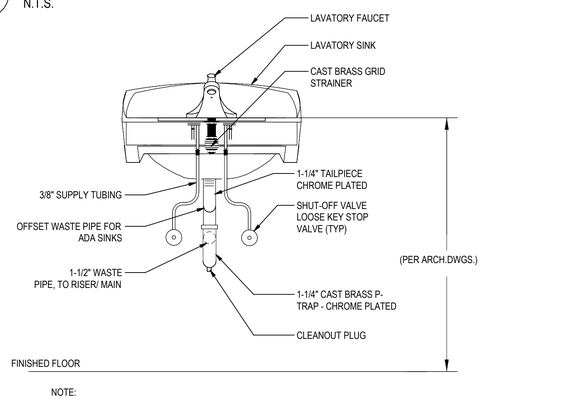
3 P-500 FLOOR CLEANOUT INSTALLATION DETAIL

N.T.S



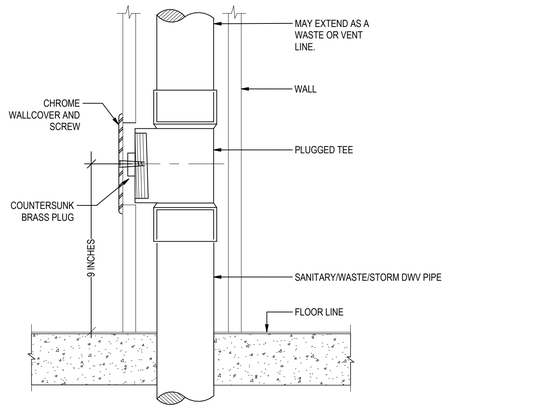
4 P-500 TYPICAL VENT THROUGH ROOF DETAIL

N.T.S.



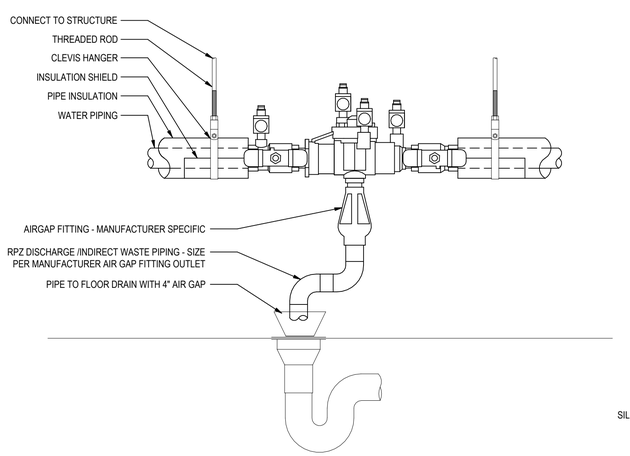
5 P-500 TYPICAL ADA LAVATORY PIPING INSTALLATION DETAIL

N.T.S.



6 P-500 WALL CLEAN OUT DETAIL

N.T.S.



7 P-500 REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER DETAIL

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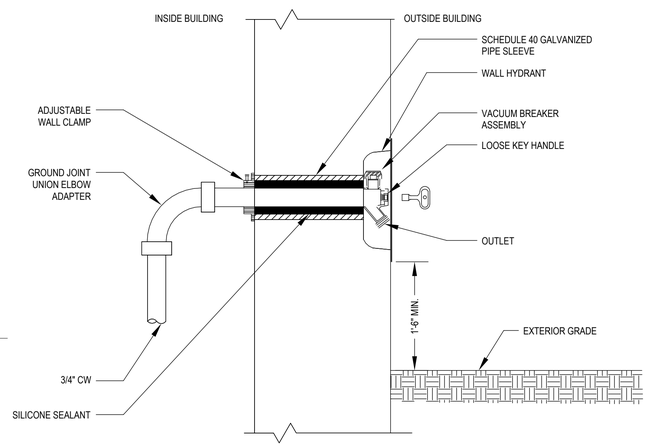

8 P-500 NON-FREEZE WALL HYDRANT DETAIL

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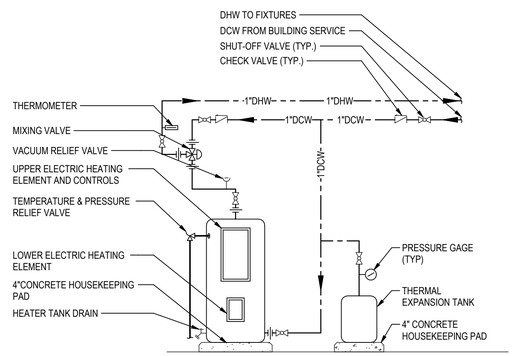

9 P-500 ELECTRIC DOMESTIC WATER HEATER

N.T.S.

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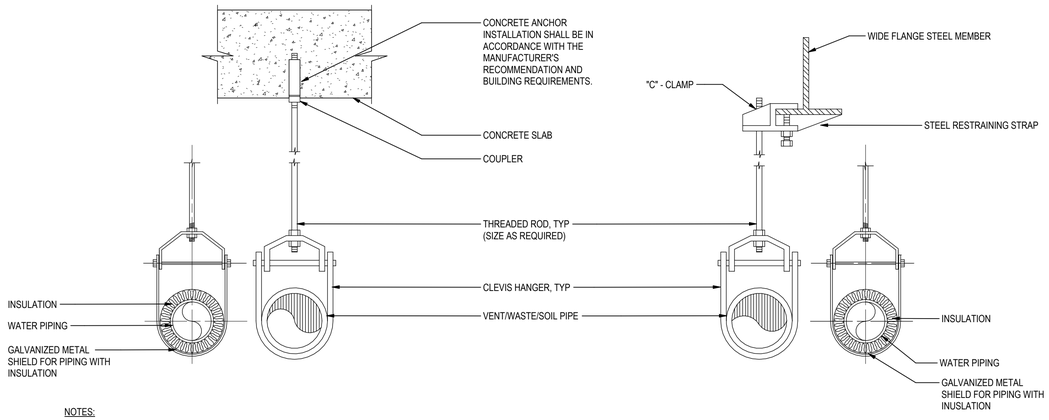
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
PLUMBING DETAILS SHEET 1

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2024.07.23	P-500

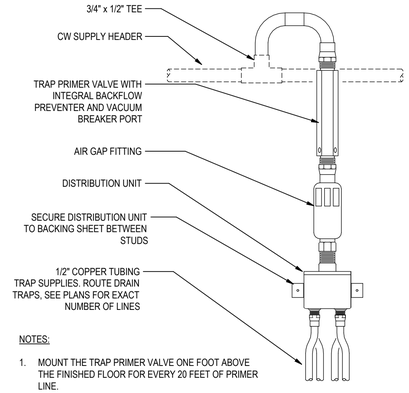


NOTES:

1. CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1".

1 TYPICAL HANGAR DETAILS (PL)

P-501 N.T.S.

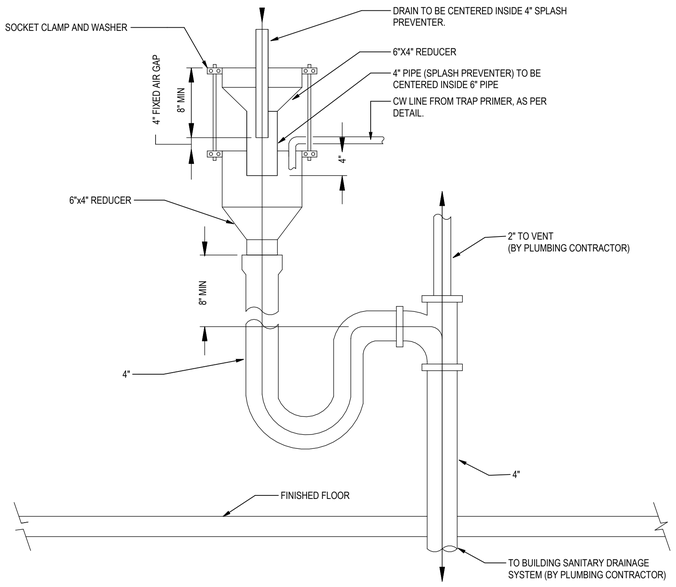


NOTES:

1. MOUNT THE TRAP PRIMER VALVE ONE FOOT ABOVE THE FINISHED FLOOR FOR EVERY 20 FEET OF PRIMER LINE.
2. INSTALL TRAP PRIMER WITHIN WALL BEHIND ACCEESS DOOR

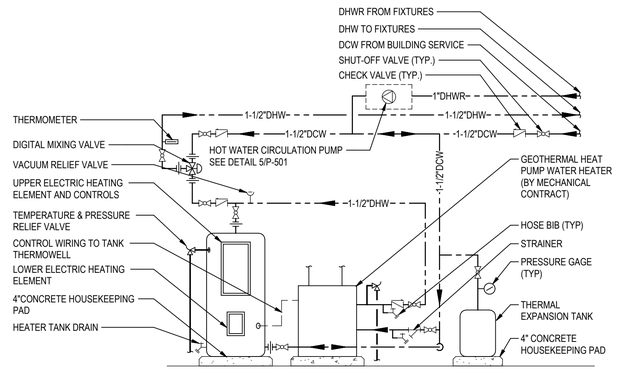
2 TRAP PRIMER DETAIL

P-501 N.T.S.



3 ANTI-SPLASH STANDPIPE DRAIN DETAIL

P-501 N.T.S.

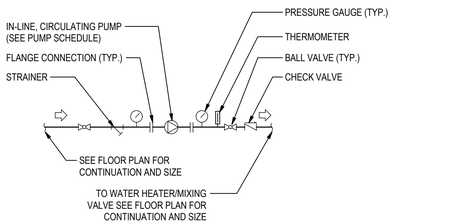


NOTES:

1. FOR ACTUAL SIZES AND LOCATIONS OF PIPING AND OTHER CONNECTIONS TO THE HEATER, SEE DIMENSIONAL DRAWINGS.
2. RELIEF VALVE DISCHARGE AND TANK DRAIN SHALL BE PIPED INDEPENDENTLY TO THE NEAREST FLOOR DRAIN. WHEN NO FLOOR DRAIN IS AVALABLE, THE RELIEF VALVE DISCHARGE SHOULD BE PIPED VERTICALLY TO A HEIGHT 18" ABOVE THE FLOOR.
3. LOCATE WATER INLET AND OUTLET FITTINGS (I.E. UNIONS, ELBOWS, ETC.) A MINIMUM OF 6" FROM WATER HEATER FITTINGS, TO PREVENT INTERFERENCE WITH REMOVAL OF HEATER PANELS.
4. WHERE REQUIRED BY LOCAL CODES, A BACKFLOW PREVENTER SHALL BE USED ON COLD WATER INLET TO HEATER IN LIEU OF CHECK VALVE.
5. SET T&P RELIEF VALVE & THERMAL EXPANSION TANK CHARGE PRESSURE TO ALIGN WITH SYSTEM OPERATING PRESSURE AND EQUIPMENT PRESSURE RATING.

4 ELECTRIC DOMESTIC WATER HEATER WITH EXTERNAL HEAT PUMP

P-501 N.T.S.

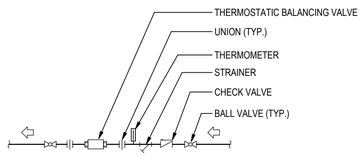


NOTES:

1. PUMP TO BE ELECTRICALLY COMMUTATED TYPE (ECM) WITH INTEGRAL CONTROLS.
2. PROVIDE SPRING HANGERS SUPPORTING PUMP AND ADJACENT PIPING FOR VIBRATION ISOLATION.

5 DOMESTIC HOT WATER CIRCULATING PUMP DETAIL

P-501 N.T.S.

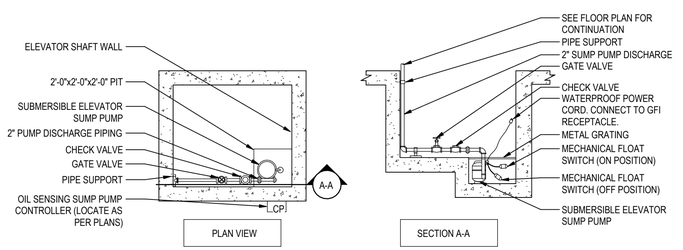


NOTES:

1. THERMOSTATIC BALANCING VALVES SHALL BE LEAD FREE BRONZE BODY RATED FOR A MAX WORKING PRESSURE OF 150 PSIG. BODY AND ALL INTERNAL COMPONENTS SHALL BE CONSTRUCTED OF STAINLESS STEEL WITH MAJOR COMPONENTS CONSTRUCTED OF STAINLESS STEEL.
2. SHALL BE SELF-CONTAINED, TAMPER-PROOF AND FULLY AUTOMATIC WITHOUT ADDITIONAL PIPING OR CONTROL MECHANISMS.
3. THERMOSTATIC BALANCING VALVE SHALL BE CALIBRATED FOR 110°F HOT WATER RETURN.
4. THERMOSTATIC BALANCING VALVE SHALL BE THERMOMEGATECH BY CIRCUITSOLVER OR APPROVED EQUAL.

6 DOMESTIC HOT WATER CIRCULATION BALANCING VALVE DETAIL

P-501 N.T.S.



7 ELEVATOR SUMP PUMP INSTALLATION DETAIL

P-501 N.T.S.

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Client/Project Logo

1660 1904 CITY OF RYE NY 1942

Client/Project

CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title

PLUMBING DETAILS SHEET 2

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2024.07.23	P-501

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8/9/2024 3:11:02 PM
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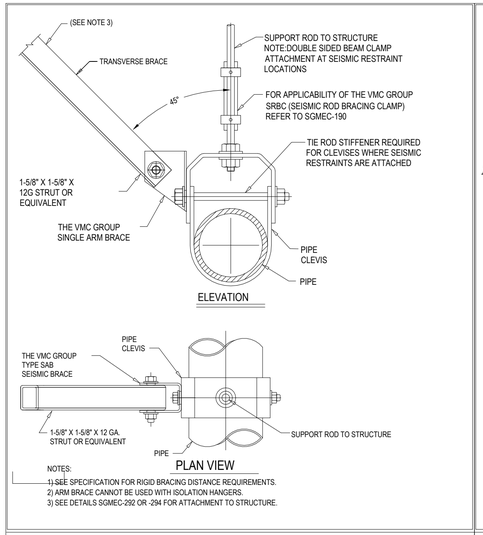
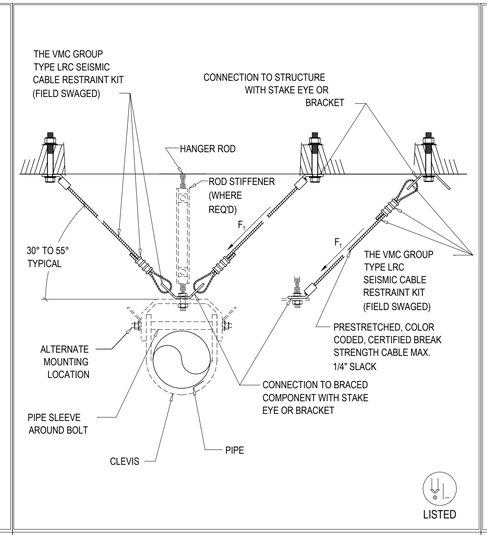
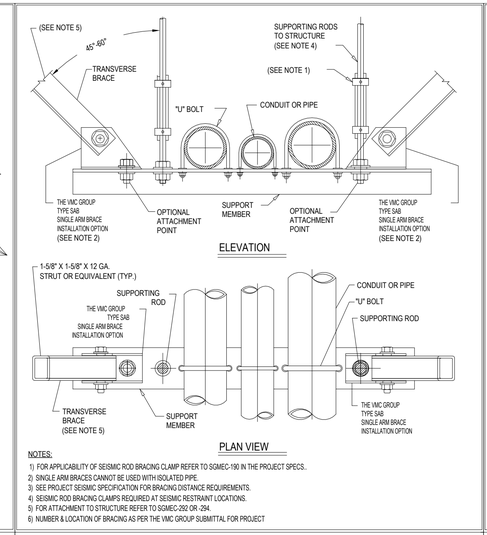


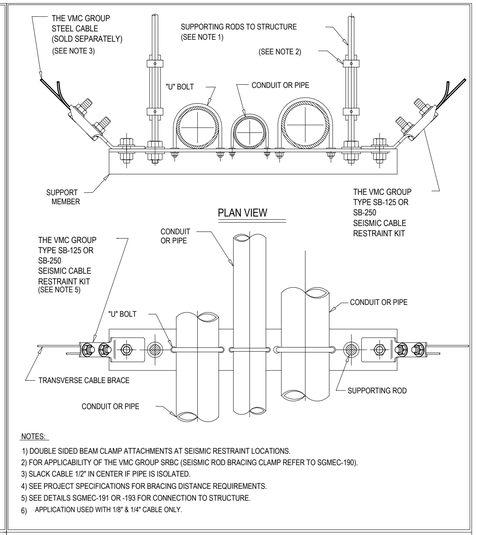
TYPICAL TRANSVERSE SINGLE ARM BRACE
FOR CLEVIS-HUNG PIPING & CONDUIT
THE VMC GROUP SPEC RESTRAINT TYPE VI
DRAWING SGMEC-210



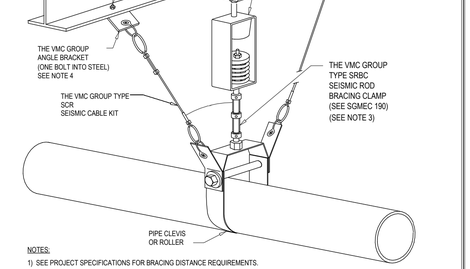
TYPICAL LRC SEISMIC CABLE BRACING
FOR TRANSVERSE CLEVIS RESTRAINT
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-504



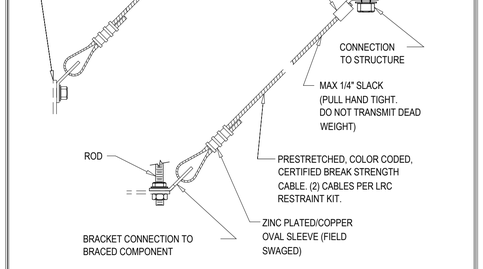
TYPICAL TRANSVERSE SINGLE ARM BRACE
FOR TRAPEZE-HUNG PIPING & CONDUIT
THE VMC GROUP SPEC RESTRAINT TYPE VI
DRAWING SGMEC-216



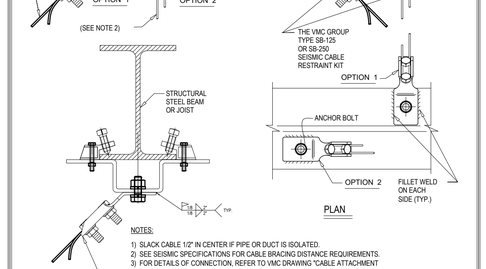
TYPICAL TRANSVERSE CABLE BRACING
FOR TRAPEZE-HUNG PIPING & CONDUIT
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-115



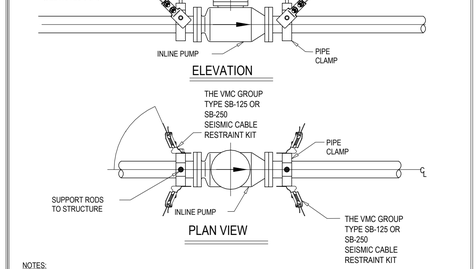
TYPICAL TRANSVERSE CABLE BRACING
OF CLEVIS- OR ROLLER-HUNG ISOLATED PIPE
THE VMC GROUP SPEC ISOLATOR TYPE C, D, E
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-102



LRC SEISMIC CABLE
RESTRAINT KIT
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-503



TYPICAL SEISMIC CABLE RESTRAINT ATTACHMENT
OF TYPE SB-125 OR SB-250 TO STRUCTURE
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-193



TYPICAL TRANSVERSE & LONGITUDINAL CABLE BRACING
FOR INLINE PUMPS
THE VMC GROUP SPEC ISOLATOR TYPE C, D, E
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-129

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Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
PLUMBING DETAILS SHEET 3

Project No.
192311093

Scale
3/32" = 1'-0"

Date
2024.07.23

Drawing No.
P-502

PLOT DATE: 7/23/2024 8:31:02 PM
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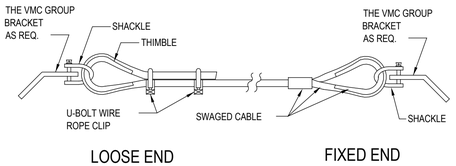
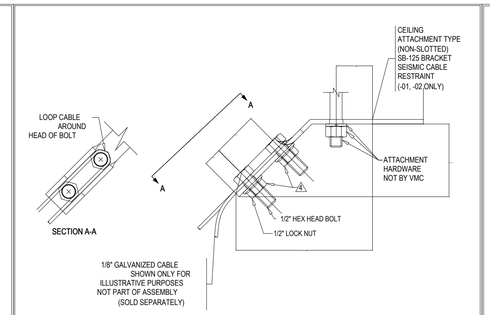


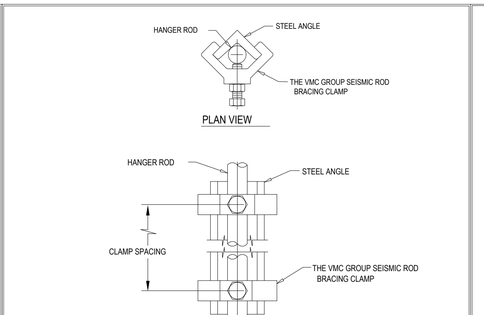
NOTES:
1) MATERIAL: C.R.S.
2) ZINC PLATE.
3) FIELD TORQUE 1/2" LOCK NUTS TO 75 FT. LBS.
4) 1 KIT CONSISTS OF:
2 SLOTTED BRACKETS
2 HOLED BRACKETS
8 BOLTS
8 SERRATED FLANGE NUTS
5) CABLE SOLD SEPERATELY.

SCR SEISMIC CABLE RESTRAINT KIT
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-501



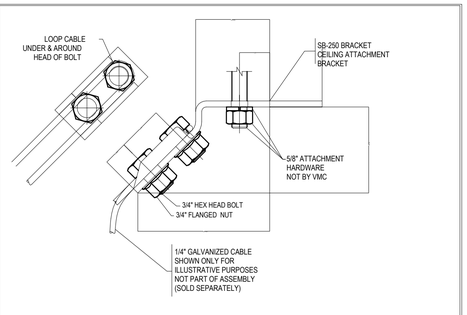
NOTES:
1) MATERIAL: C.R.S.
2) ZINC PLATE.
3) FIELD TORQUE 1/2" LOCK NUTS TO 75 FT. LBS.
4) 1 KIT CONSISTS OF:
2 SLOTTED BRACKETS
2 HOLED BRACKETS
8 BOLTS
8 SERRATED FLANGE NUTS
5) CABLE SOLD SEPERATELY.

SB-125 SEISMIC CABLE RESTRAINT KIT
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-500



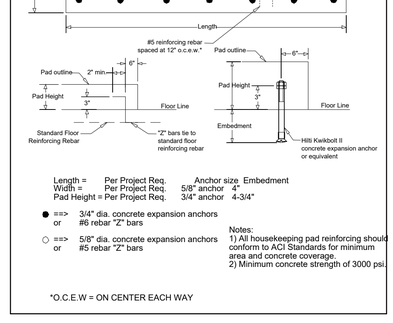
SRBC TABLE					
VERTICAL HANGER ROD INSTALLATION DETAILS					
VMC ROD BRACING CLAMP No.	ROD DIA (INCHES)	ROD LENGTHS OVER "X" INCHES	STEEL ANGLE SIZE (INCHES)	CLAMP SPACING	MIN # OF CLAMPS PER STIFFENER
SRBC - 1	3/8"	20"	1 X 1 X 1/4"	16"	3
SRBC - 1	1/2"	25"	1 X 1 X 1/4"	20"	3
SRBC - 1	5/8"	31"	1 X 1 X 1/4"	12"	3
SRBC - 1 1/2	3/4"	37"	1 1/2 X 1 1/2 X 1/4"	16"	3
SRBC - 1 1/2	7/8"	43"	1 1/2 X 1 1/2 X 1/4"	12"	4
SRBC - 1 1/2	1"	50"	1 1/2 X 1 1/2 X 1/4"	16"	4
SRBC - 1 1/2	1 1/8"	62"	1 1/2 X 1 1/2 X 1/4"	20"	4

SEISMIC ROD BRACING CLAMP
THE VMC GROUP SPEC RESTRAINT TYPE V, VI
DRAWING SGMEC-190



NOTES:
1) MATERIAL: COLD ROLLED STEEL
2) HARDWARE & BRACKETS ZINC ELECTROPLATE
3) FIELD TORQUE 3/4" FLANGE NUTS TO 100 FT.-LBS.
4) 1 KIT CONSISTS OF:
2 SLOTTED BRACKETS
2 HOLED BRACKETS
8 BOLTS
8 SERRATED FLANGE NUTS
5) CABLE SOLD SEPARATELY.

SB-250 SEISMIC CABLE RESTRAINT KIT
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-502



Length = Per Project Req. Anchor size Embedment
Width = Per Project Req. 5/8" anchor 4"
Pad Height = Per Project Req. 3/4" anchor 4-3/4"

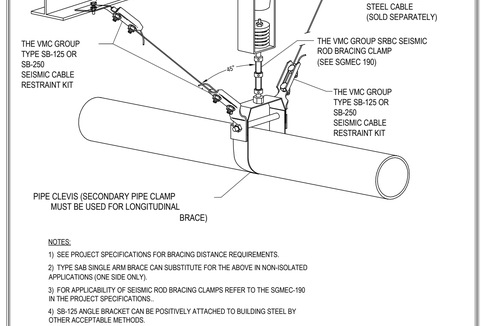
● ==> 3/4" dia. concrete expansion anchors or #6 rebar "Z" bars

○ ==> 5/8" dia. concrete expansion anchors or #5 rebar "Z" bars

Notes:
1) All housekeeping pad reinforcing should conform to ACI Standards for minimum area and concrete coverage.
2) Minimum concrete strength of 3000 psi.

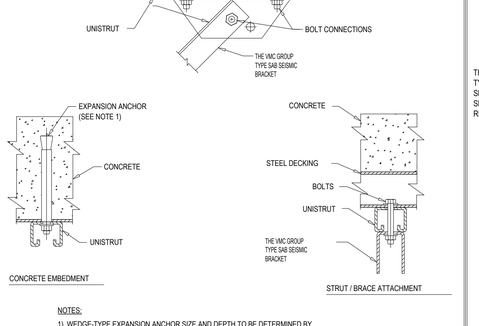
*O.C.E.W = ON CENTER EACH WAY

TYPICAL CALCULATION SHEET FOR CONCRETE ANCHORS
SGMEC-800



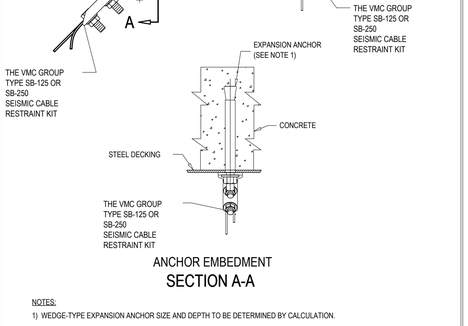
NOTES:
1) SEE PROJECT SPECIFICATIONS FOR BRACING DISTANCE REQUIREMENTS.
2) TYPE SAB SINGLE ARM BRACE CAN SUBSTITUTE FOR THE ABOVE IN NON-ISOLATED APPLICATIONS (ONE SIDE ONLY).
3) FOR APPLICABILITY OF SEISMIC ROD BRACING CLAMPS REFER TO THE SGMEC-190 IN THE PROJECT SPECIFICATIONS..
4) SB-125 ANGLE BRACKET CAN BE POSITIVELY ATTACHED TO BUILDING STEEL BY OTHER ACCEPTABLE METHODS.
5) APPLICATION USED WITH 1/8" & 1/4" CABLE ONLY.

TYPICAL TRANSVERSE CABLE BRACING OF CLEVIS- OR ROLLER-HUNG ISOLATED PIPE
THE VMC GROUP SPEC ISOLATOR TYPE C, D, E
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-103



NOTES:
1) WEDGE-TYPE EXPANSION ANCHOR SIZE AND DEPTH TO BE DETERMINED BY CALCULATION.

TYPICAL SINGLE ARM BRACE ATTACHMENT TO CONCRETE STRUCTURE
THE VMC GROUP SPEC RESTRAINT TYPE VI
DRAWING SGMEC-296



NOTES:
1) WEDGE-TYPE EXPANSION ANCHOR SIZE AND DEPTH TO BE DETERMINED BY CALCULATION.
2) APPLICATION USED WITH 1/8" & 1/4" CABLE ONLY.

TYPICAL SEISMIC CABLE RESTRAINT ATTACHMENT TO CONCRETE STUCTURE
THE VMC GROUP SPEC RESTRAINT TYPE V
DRAWING SGMEC-191

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Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	MP	MP	JHP 2024.07.23
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Permit/Seal

STATE OF NEW YORK JOSEPH H. PAVEL LICENSED PROFESSIONAL ENGINEER 096446

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16160 19104 CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
PLUMBING DETAILS SHEET 4

Project No.	Scale
192311093	3/32" = 1'-0"
Date	Drawing No.
2024.07.23	P-503

Style:SAB
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ORIGINAL SHEET - ANSI D

PLUMBING PIPING SYSTEM APPLICATION SCHEDULE

SYSTEM	ABBREVIATION	AREA OR SYSTEM SERVED	PIPE LOCATION	PIPE SIZE (DN)	PIPING MATERIAL						JOINING METHOD								CONSTRUCTION					INSULATION				JACKET		
					COPPER DWV TUBE (NOTE 2)	COPPER TYPE K - ASTM B 88	COPPER TYPE L - ASTM B 88	DUCTILE IRON CLASS 52	SCH 40 BLACK STEEL - ASTM A 53	PVC, SOLID WALL - SCH 40	SOLDERED	PRESSURE-SEALED JOINT	BRAZED	GROOVED-JOINT COUPLING	RESTRAINED MECHANICAL JOINT (MEGA-LUG)	SOLVENT CEMENT	SCREWED - CLASS 150 MALLEABLE IRON	WELDED	OPERATING TEMPERATURE (°F)	SYSTEM WORKING PRESSURE	TEST PRESSURE (PSI)	TEST DURATION (HRS)	ACCEPTANCE LEVEL	MINERAL FIBER PREFORMED	FLEXIBLE ELASTOMERIC	THICKNESS (IN)	DENSITY (PCF)	ASJ-SSL	PVC (WHERE EXPOSED)	ALUMINUM FSK
DOMESTIC WATER	CW / HW / HWR	BUILDING	ABOVEGROUND	NPS 2 AND SMALLER			X				X	X							40 - 140	125 PSI	150	2	ZERO LOSS/LEAKS	X		1	1		X	
				NPS 2-1/2 TO NPS 4			X				X	X		X																	
			UNDERGROUND	NPS 2 AND SMALLER		X							X																		
				NPS 2-1/2 AND LARGER				X							X																
SANITARY & SANITARY VENT	SAN / V	BUILDING	ABOVEGROUND	ALL SIZES	X					X	X					X			30 - 140	10 FT	NOTE 1	2	ZERO LOSS/LEAKS	NOTES 2 & 3						
			UNDERGROUND	ALL SIZES						X						X			30 - 140	10 FT	NOTE 1	2	ZERO LOSS/LEAKS							
STORM WATER	ST	BUILDING	ABOVEGROUND	ALL SIZES						X						X			30 - 140	10 FT	NOTE 1	2	ZERO LOSS/LEAKS	NOTE 4						
			UNDERGROUND	ALL SIZES						X						X			30 - 140	10 FT	NOTE 1	2	ZERO LOSS/LEAKS							

NOTES:
1. CLOSE OPENING IN PIPING SYSTEM AND FILL TO POINT OF OVERFLOW BUT NOT LESS THAN 10 FOOT HEAD OF WATER.
2. OPTION FOR SANITARY VENT TO BE DWV COPPER TUBING
3. PROVIDE 1" THICK INSULATION ON FIRST 15 FEET OF HORIZONTAL PIPING FROM DRAINS WITH AIR HANDLER CONDENSATE.
4. PROVIDE 1" THICK INSULATION FOR ALL HORIZONTAL STORM PIPING, VERTICAL PIPING FROM ROOF DRAIN, AND ROOF DRAIN BODY.

PLUMBING DRAIN SCHEDULE

UNIT IDENTIFICATION	DRAIN TYPE	MODEL NUMBER	BODY: CAST IRON	BODY: NICKEL BRONZE	BODY: BOTTOM OUTLET	BODY: SIDE OUTLET	BODY: CLAMPING DEVICE	BODY: HUBLESS OUTLET	BODY: INSIDE GASKET	BODY: THREADED	STRAINER/TOP: CAST IRON	STRAINER/TOP: PROCELAIN ENAMEL COATED	STRAINER/TOP: STAINLESS STEEL	STRAINER/TOP: SEDIMENT BUCKET	STRAINER/TOP: SECONDARY STRAINER	STRAINER/TOP: TRACTOR GRATE	STRAINER/TOP: FLAT TOP	STRAINER/TOP: VERTICAL ADJUSTMENT	STRAINER/TOP: VANDAL PROOF	STRAINER/TOP: SIZE	REMARKS: LOCATION
FD-1	FLOOR DRAIN	ZURN ZS415-BS	X		X		X						X				X	X	X	6" DIA.	RESTROOMS, FOOD SERVICE, FINISHED AREAS
FD-2	FLOOR DRAIN	ZURN Z526	X		X		X				X			X	X	X	X	X		12" DIA.	MECHANICAL ROOMS, STORAGE ROOMS, ROUGH AREAS
TD-1	TRENCH DRAIN	ACO - S100K	X			X	X					X		X	X	X	X			4" W	GARAGE
FCO-1	FLOOR CLEANOUT	ZURN ZS1400-5B-BP-VP	X		X		X						X				X	X	X	5" DIA.	ALL
RD-1, OD-1	ROOF DRAIN	JR SMITH 1800	X		X		X	X			X							X		4" DIA	ROOF
ODO-1	OVERFLOW DRAIN OUTLET	ZURN Z199		X		X													X	4" DIA	EXTERIOR WALL

NOTES:
1. PROVIDE ASSE 1072 CERTIFIED TRAP SEALING INSERT FOR ALL DRAINS WITH TRAPS SUBJECT TO EVAPORATION. WHERE DRAIN IS GREATER THAN 4", PROVIDE TRAP PRIMER AND TRAP PRIMER CONNECTION.

WATER HAMMER ARRESTOR SCHEDULE

FIXTURE UNITS	1-3	1-11	12-32	33-60	61-113	114-154	155-330
PDI UNITS	AA	A	B	C	D	E	F
PIPE SIZE	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"

NOTES:
1. CONTRACTOR TO SIZE AND PROVIDE WATER HAMMER ARRESTORS PER LATEST EDITION OF PDI STANDARD 201.
2. SIZING SHOWN BASED ON 50 FT LENGTH AND WATER PRESSURE UP TO 65 PSIG. WHEN WATER PRESSURE IN LINE EXCEEDS 65 PSIG, SELECT NEXT LARGER SIZE.
3. PDI - PLUMBING & DRAINAGE INSTITUTE

PLUMBING VALVE SCHEDULE

SERVICE	SIZE	MODEL	TYPE	MATERIAL
HOT AND COLD WATER	1/4" TO 3"	APOLLO 102TLF, NIBCO T-113-LF	NRS GATE, THREADED	BRONZE B-62
	1/4" TO 3"	APOLLO 102SLF, NIBCO S-113-LF	NRS GATE, SOLDERED	BRONZE B-62
	1/4" TO 2"	APOLLO 77CLF-140 SERIES, NIBCO T-585-66-LF	FULL PORT BALL 2-PIECE STYLE, THREADED	BRONZE B-584
	1/4" TO 2"	APOLLO 77CLF-240 SERIES, NIBCO S-585-66-LF	FULL PORT BALL 2-PIECE STYLE, SOLDERED	BRONZE B-584
	1-1/4" TO 3"	APOLLO 82LF-140 SERIES, NIBCO T-595-Y-66-LF	FULL PORT BALL 3-PIECE STYLE, THREADED	BRONZE B-584
	1-1/4" TO 3"	APOLLO 82LF-240 SERIES, NIBCO S-595-Y-66-LF	FULL PORT BALL 3-PIECE STYLE, SOLDERED	BRONZE B-584
	1/2" TO 3"	APOLLO 161TLF	SWING CHECK, THREADED	BRONZE, BRONZE DISC
	1/2" TO 3"	APOLLO 161SLF	SWING CHECK, SOLDERED	BRONZE, BRONZE DISC
	OVER 3"	STOCKHAM G-623, NIBCO F-617-0	OS&Y GATE	IBBM
	OVER 3"	STOCKHAM G-612, NIBCO F-619	NRS GATE	IBBM
	OVER 3"	STOCKHAM G-931, NIBCO F-918-B	SWING CHECK	IBBM
	3" TO 6"	MILWAUKEE ML233E (LEVER) ML33E (GEAR), NIBCO LD-2000-3	BUTTERFLY	DUCTILE IRON BODY, ALUM BRONZE DISC, EPDM SEAT
	3" TO 6"	MILWAUKEE HP1LCS5113 (CLASS 150), NIBCO LCS-6822-3	HIGH PERFORMANCE BUTTERFLY	CARBON STEEL BODY, STAINLESS STEEL DISC, PTFE SEAT
SANITARY AND STORM DRAINAGE	2" TO 12"	STOCKHAM G-931LW	SWING CHECK WITH LEVEL AND WEIGHT	IBBM
	2" TO 12"	STOCKHAM G-623	GATE	IBBM
DRAIN VALVES	AT SYSTEM LOW POINTS	APOLLO 77LF-140-HC, NIBCO 585-7-66-HC-LF	BALL WITH HOSE CAP AND CHAIN	BRONZE 584
FUEL GAS	3/4" TO 1-1/2"	WALWORTH 2911	PLUG	IBBM
	OVER 1-1/2"	WALWORTH 1796	PLUG	IBBM
CIRCUIT BALANCING	1/2" TO 3"	APOLLO 121 TLF, BELL & GOSSET CB-1TLF	GLOBE, THREADED	BRONZE, RISING STEM
	1/2" TO 3"	APOLLO 120 SLF, BELL & GOSSET CB-1SLF	GLOBE, SOLDERED	BRONZE, RISING STEM
FIRE SERVICE	4" AND 6"	NIBCO F-607-RWS	OS&Y UL/FM/MEA	RESILIENT WEDGE GATE

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12

Issued	By	Appd	YYYY.MM.DD
	MP	MP	2024.07.23
	Dwn.	Dsgn.	Chkd.

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DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
PLUMBING SCHEDULES SHEET 1

Project No.
192311093

Scale

Date
2024.07.23

Drawing No.
P-600

ELECTRIC WATER HEATER SCHEDULE

UNIT IDENTIFICATION		PERFORMANCE DATA			ELECTRICAL DATA			PHYSICAL DATA					THERMAL EXPANSION TANK	MANUFACTURER	MODEL NUMBER	NOTES
MARK	AREA SERVED	RECOVERY RATE (GPH)	EWT (F)	LWT (F)	VOLTS	PHASE	POWER (KW)	STORAGE (GAL)	HEIGHT (IN.)	WIDTH (IN.)	DEPTH (IN.)	APPROX. OPERATING WEIGHT (LBS)				
EWH-1	2ND FLOOR	61	40	140	208	3	15	100	62-7/16	29-3/8	29-3/8	1,264	DET-1	AO SMITH	DSE-100	1, 2, 3
EWH-2	PRESSURE WASHER	24	40	140	208	3	12.3	119	62-7/16	29-3/8	29-3/8	1,332	DET-2	AO SMITH	DRE-120	1, 2, 4

NOTES:
1. INSTALL HEATER ON 4" CONCRETE HOUSEKEEPING PAD.
2. PIPE T&P RELIEF VALVE AND TANK DRAIN SEPARATELY TO FLOOR DRAIN WITH AIR GAP.
3. COORDINATE CONNECTION OF HEATER WITH HEAT PUMP (BY MECHANICAL CONTRACT). PROVIDE PORT FOR TANK THERMOWELL, TEMPERATURE SENSOR, AND WIRING TO HEAT PUMP. CONTROLS TO PRIORITIZE HEAT PUMP USAGE.

PLUMBING FIXTURES SCHEDULE

DESIGNATION	FIXTURE TYPE	MANUFACTURER	MODEL NUMBER	FINSH	COLD WATER SUPPLY	HOT WATER SUPPLY	VENT PIPE SIZE	WASTE PIPE SIZE	TRAP SIZE	ADA COMPLIANT	NOTES
EWC-1	WATER COOLER	ELKAY	EZSTL8WSVRLK	GREY	3/8"	-	1-1/2"	1-1/2"	1-1/4"	YES	BI LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLING STATION.
NFHB-1	HOSE BIBB	ZURN	Z1341XL	CHROME	3/4"	-	-	-	-	-	PROVIDE INTEGRAL VACUUM BREAKER, NON-FREEZE TYPE.
LAV-1	WALL-MOUNT LAVATORY SINK SINK BASIN (THREE STATIONS)	SLOAN	ELGR-83000	WHITE	1/2"	1/2"	(3)1-1/2"	(3)1-1/2"	(3)1-1/4"	YES	PROVIDE JOSAM 17560-M1768 LAVATORY CARRIER FOR EACH SINK. BATTERY POWERED FAUCET AND MIXING VALVE. 0.5 GPM MAX. PROVIDE STAINLESS STEEL ENCLOSURE.
	FAUCET (3)	SLOAN	SF-2450-4-BAT-BDM-CP-0.5GPM-MLM-IR-FCT	POLISHED CHROME							
LAV-2	WALL-MOUNT LAVATORY SINK BASIN (ONE STATION)	SLOAN	ELGR-81000	WHITE	1/2"	1/2"	1-1/2"	1-1/2"	1-1/4"	YES	PROVIDE JOSAM 17560-M1768 LAVATORY CARRIER FOR EACH SINK. BATTERY POWERED FAUCET AND MIXING VALVE. 0.5 GPM MAX. PROVIDE STAINLESS STEEL ENCLOSURE.
	FAUCET (1)	SLOAN	SF-2450-4-BAT-BDM-CP-0.5GPM-MLM-IR-FCT	POLISHED CHROME							
LAV-3	WALL-MOUNT LAVATORY	SLOAN	SS-3003-STG	WHITE	1/2"	1/2"	1-1/2"	1-1/2"	1-1/4"	YES	PROVIDE JOSAM 17560-M1768 LAVATORY CARRIER FOR EACH SINK. PROVIDE TRAP AND SUPPLY GUARDS. BATTERY POWERED FAUCET AND MIXING VALVE. 0.5 GPM MAX.
	FAUCET	SLOAN	SF-2150-4-BAT-BDM-CP-0.5GPM-MLM-IR-FCT	POLISHED CHROME							
KS-1	KITCHEN SINK	AMERICAN STANDARD	COLONY 22SB.6252283S.075	STAINLESS STEEL	1/2"	1/2"	2"	2"	1 1/2"	YES	TOP MOUNT SINGLE BOWL STAINLESS STEEL SINK. PROVIDE TRAP AND SUPPLY GUARDS AS REQUIRED.
	FAUCET	AMERICAN STANDARD	JOCELYN 9316.000	POLISHED CHROME							
MS-1	MOP SERVICE BASIN	FIAT PRODUCTS	TSBC1611	TERRAZZO	3/4"	3/4"	1-1/2"	3"	3"	-	PROVIDE 3/4" HOSE TREAD AND INTEGRAL VACUUM BREAKER ON FAUCET.
	FAUCET	T&S BRASS AND BRONZE WORKS INC.	B-0665-BSTR	CHROME							
SSF-1	SERVICE SINK FAUCET	T&S BRASS AND BRONZE WORKS INC.	B-0665-BSTR	CHROME	3/4"	3/4"	-	-	-	-	PROVIDE 3/4" HOSE TREAD AND INTEGRAL VACUUM BREAKER ON FAUCET.
NFWH-1	FLUSH WALL HYDRANT	ZURN	Z1300-WC	NICKEL BRONZE	3/4"	3/4"	-	-	-	-	COORINATE BARREL LENGTH WITH WALL THICKNESS. NON-FREEZE...
SH-1	SHOWER BASE	FIAT PRODUCTS	SEQUOIA WTR-4990	TERRAZZO	3/4"	3/4"	1-1/2"	2"	2"	YES	-
	SHOWER FAUCET	SYMMONS	1-117/VT-FS-X-CHKS	POLISHED CHROME							
UR-1	URINAL	SLOAN	SU-1009-STG	WHITE	3/4"	-	1-1/2"	2"	INTERNAL	YES	PROVIDE ZURN Z1221 WALL CARRER FOR URINAL. FLUSH VALVE TO BE 0.125 GPF. BATTERY POWERED FLUSH VALVE
	FLUSH VALVE	SLOAN	SOLIS 8186-0.125-OR-CO	POLISHED CHROME							
WC-1	WALL MOUNTED	SLOAN	ST-2459-STG	WHITE	1-1/2"	-	2"	4"	INTERNAL	YES	FLUSH VALVE TO BE 1.28 GPF. BATTERY POWERED FLUSH VALVE. PROVIDE BEMIS 2155SSCT SEAT.
	FLUSH VALVE	SLOAN	SOLIS 8111-1.28-OR-CO	POLISHED CHROME							
WCO-1	WALL CLEANOUT	ZURN	Z1441	STAINLESS STEEL	-	-	-	PER DWGS	-	-	-
HR-1	HOSE REEL	T&S BRASS AND BRONZE WORKS INC.	B-7143-06	STAINLESS STEEL	-	3/4"	-	-	-	-	SPRING RATCHETING SYSTEM HOSE REEL. PROVIDE WITH 1/2"X50' HEAVY DUTY NON MARKING HOSE. OPEN STAINLESS STEEL TRIGGER WATER GUN. PROVIDE WITH SUPPLY RISER, INCLUDING SHUT-OFF VALVE AND VACUUM BREAKER MOUNTED ABOVE HOSE REEL.

NOTES:...

SUMP PUMP SCHEDULE

UNIT IDENTIFICATION			PUMP						BASIN			ELECTRICAL		MANUFACTURER	MODEL NUMBER	NOTES
MARK	NUMBER	SYSTEM SERVED	TYPE	QUANTITY	FLOW (GPM)	HEAD (FT)	HP	SPEED (RPM)	CONSTRUCTION	LENGTH X WIDTH (IN)	DEPTH (IN)	VOLTS	PHASE			
SP	1	ELEVATOR	SUBMERSIBLE	1	50	19	1/2	3500	CONCRETE	24X24	24	120	1	STANCOR	SE-50O/M	1

NOTES:
1. PROVIDE WITH REMOTE MOUNTED, OIL SENSING, SUMP PUMP CONTROL PANEL AND GRATED COVER OVER SUMP PIT.

MIXING VALVE SCHEDULE

MARK	SYSTEM SERVED	MIN DRAW (GPM)	MINIMUM FLOW (GPM)	DESIGN FLOW (GPM)	HOT WATER INLET TEMP (F)	HOT WATER OUTLET TEMP (F)	PRESSURE DROP AT DESIGN FLOW (PSI)	MANUFACTURER	MODEL NUMBER	CERTIFICATION	NOTES
MV-1	DIGITAL MASTER MIXING VALVE	0	2	20	140	110	5.0	ARMSTRONG	DRV25R	ASSE 1017	1
MV-2	PRESSURE WASHER MIXING VALVE	3	3	5	140	110	1.8	WATTS	3/4"...	ASSE 1017	-

NOTES
1. COORDINATE LOCATION OF REQUIRED 120V RECEPTACLE WITH ELECTRICAL CONTRACTOR.

RECIRCULATION PUMP SCHEDULE

UNIT IDENTIFICATION			PUMP DATA				ELECTRICAL DATA			MANUFACTURER	MODEL	PART NUMBER
MARK	NUMBER	SYSTEM SERVED	TYPE	FLOW (GPM)	HEAD (FT)	SPEED (RPM)	POWER	VOLTS	PHASE			
RP	1	DOMESTIC HOT WATER	INLINE ECM	5	11	VARIES	1/6 HP	115	1	BELL & GOSSETT	NBF-18S	103316LF

NOTES:
1. PROVIDE LEAD FREE CONSTRUCTION.
2. PROVIDE SPRING HANGERS FOR PUMP TO MITIGATE VIBRATION TO NEARBY SPACES.
3. PROVIDE TIME CLOCK FOR EACH PUMP MOUNTED ADJACENT TO PUMP.

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	MP	MP	JHP	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

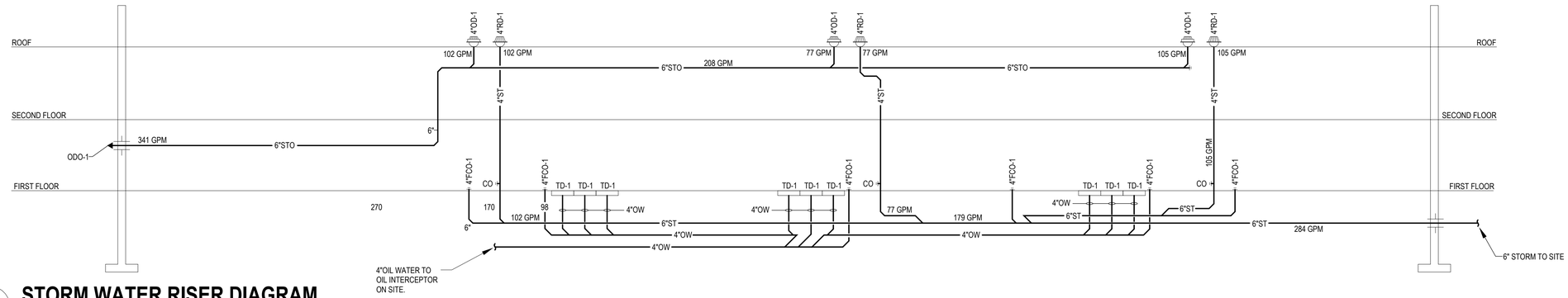
Title
PLUMBING SCHEDULES SHEET 2

Project No.
192311093

Scale

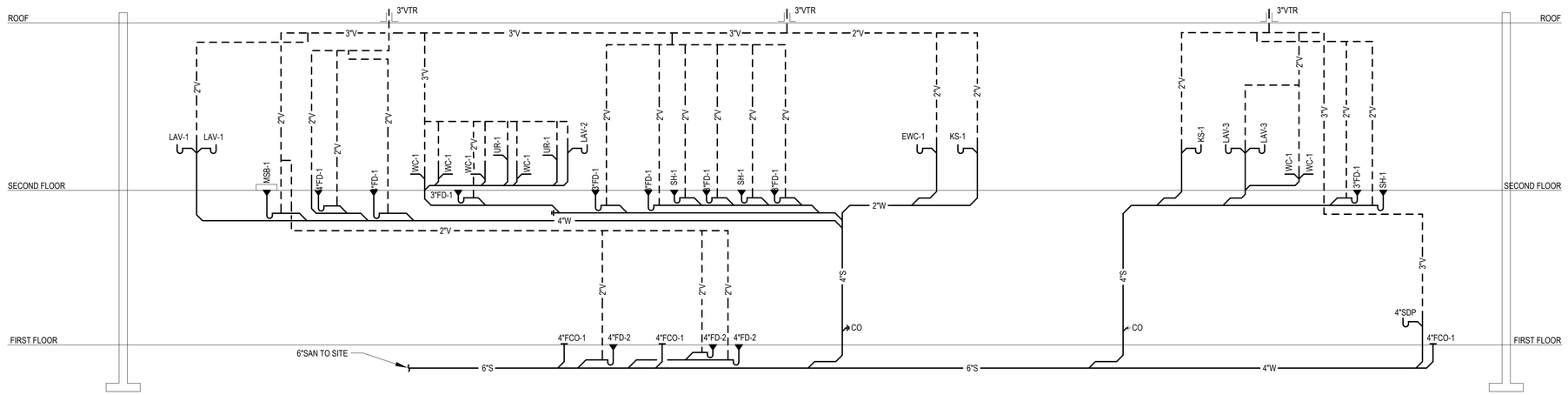
Date
2024.07.23

Drawing No.
P-601



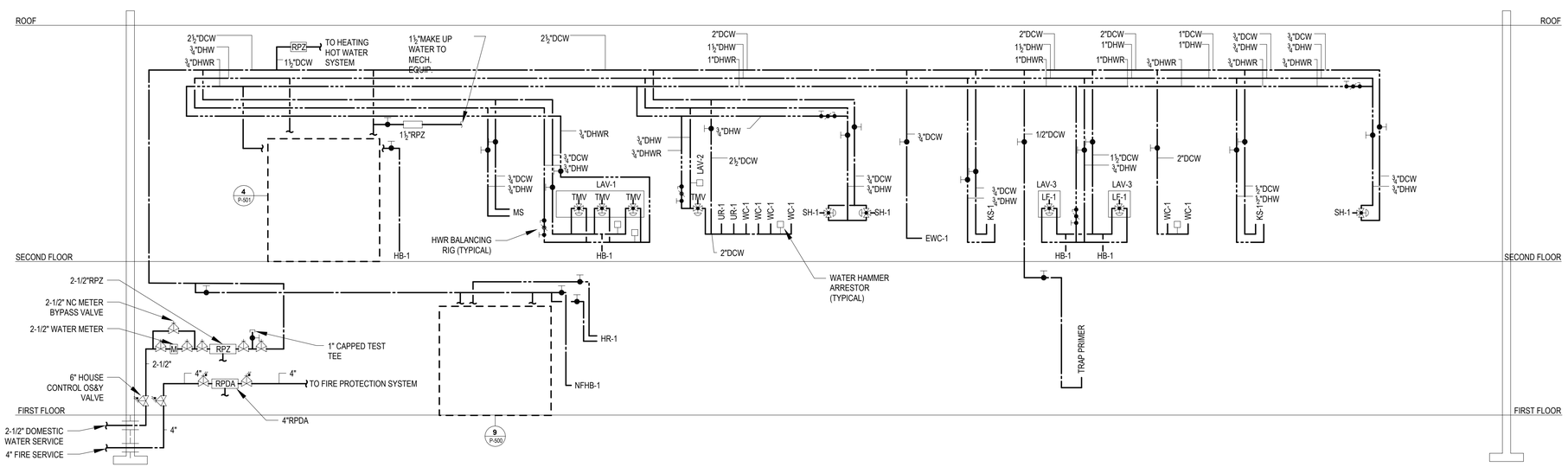
1 STORM WATER RISER DIAGRAM

P-602 N.T.S.



2 SANITARY RISER DIAGRAM

P-602 N.T.S.



3 DOMESTIC WATER RISER DIAGRAM

P-602 N.T.S.

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12

Issued	By	Appd	YYYY.MM.DD
	MP	MP	JHP	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

STATE OF NEW YORK · JOSEPH H. PAWLIK · 096446 · LICENSED PROFESSIONAL ENGINEER

Client/Project Logo

CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
PLUMBING RISER DIAGRAMS

Project No.	Scale
192311093	N.T.S.
Date	Drawing No.
2024.07.23	P-602

PIPING SYMBOL LIST

	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION JOINT (SEE SPECIFICATION FOR TYPE)
	CONCENTRIC REDUCER (FLOW IN DIRECTION OF ARROW)
	ECCENTRIC REDUCER (FLOW IN DIRECTION OF ARROW)
	UNION
	PIPE FLANGE
	CAPPED PIPE
	CAPPED AND VALVE CONNECTION
	STRAINER WITH BLOW DOWN VALVE
	STRAINER
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	FLEXIBLE CONNECTION
	SHUT-OFF VALVE (GATE VALVE SEE SPECS)
	SHUT-OFF VALVE (BALL VALVE SEE SPECS)
	GLOBE VALVE
	CHECK VALVE
	AUTOMATIC THREE WAY VALVE
	AUTOMATIC TWO WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	PLUG VALVE
[S]	SOLENOID VALVE
	BUTTERFLY VALVE (MANUAL)
[M]	BUTTERFLY VALVE (MOTORIZED)
	VALVE IN VERTICAL PIPE
	HOSE BIBB
M	MANUAL AIR VENT
A	AUTOMATIC AIR VENT
	THERMOMETER
	PIPE SENSOR WELL
	PRESSURE GAUGE WITH SHUT OFF VALVE
	PIPE SLEEVE
	BALANCE VALVE
(M) FLOW	FLOW METER
(M) BTU	BTU METER
[F]	FLOW SWITCH
[P]	PRESSURE CONTROL
	PRESSURE RELIEF VALVE
	PUMP
	PITCH PIPE DOWN IN DIRECTION OF ARROW

DUCTWORK SYMBOL LIST

18X12	DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)
18Ø	ROUND DUCT DIAMETER
	ACCESS DOOR IN DUCT
R	GRADUAL RISE IN DUCT
D	GRADUAL DRIP IN DUCT
	ELBOW WITH TURNING VANES
	RADIUS ELBOW
	DUCT SPLIT
	BRANCH TAKEOFF
	DOUBLE LINE DUCTWORK CONTINUATION
	EXISTING DUCTWORK TO REMAIN
	EXISTING DUCTWORK TO BE REMOVED
	NEW DUCT WORK
	REGISTER (SUPPLY)
	REGISTER RETURN OR EXHAUST
	VOLUME DAMPER
FD	FIRE DAMPER W/DUCT ACCESS DOOR (FD/AD)
M	MOTORIZED DAMPER W/DUCT ACCESS DOOR
F.S.D.	COMBINATION FIRE/SMOKE DAMPER W/DUCT ACCESS DOOR
S.D.	SMOKE DAMPER W/DUCT ACCESS DOOR
	FLEXIBLE CONNECTION
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DOWN
	ELBOW WITH TURNING VANES
	RADIUS ELBOW
	DUCT SPLIT OR BRANCH TAKEOFF
DL	DOOR LOUVER

ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AP	ACCESS PANEL
BD	BLAST GATE DAMPER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BSC	BIOSAFETY CABINET
BTU	BRITISH THERMAL UNIT
CAV	CONSTANT AIR VOLUME
CFM	CUBIC FEET PER MINUTE
CONN	CONNECTION
CUH	CABINET UNIT HEATER
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CHGS	CHILLED GLYCOL SUPPLY
CHGR	CHILLED GLYCOL RETURN
DAT	DISCHARGE AIR TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEMO	DEMOLISH, DEMOLITION
DH	DEHUMIDIFICATION UNIT
DIA	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DSD	DUCT SMOKE DETECTOR
E	EXISTING TO REMAIN
EAT	ENTERING AIR TEMPERATURE
EAV	EXHAUST AIR VALVE
EF	EXHAUST FAN
EG	EXHAUST/RETURN AIR GRILLE
ER	EXISTING REMOVE
ESP	EXTERNAL STATIC PRESSURE
EV	EXHAUST VENT
EXIST	EXISTING
FCU	FAN COIL UNIT
FH	FUME HOOD
FLEX	FLEXIBLE CONNECTION
FSD	FIRE/SMOKE DAMPER W/AUTO RESET
FD	FIRE DAMPER
FPM	FEET PER MINUTE
FTR	FIN TUBE
GAL	GALLON
GC	GENERAL CONTRACT
GPM	GALLON PER MINUTE
HF	HEPA FILTER
HLPS	HUMIDIFICATION LOW PRESSURE STEAM
HP	HORSEPOWER
HU	HUMIDIFIER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
MBH	THOUSAND BTU/HR
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
N.T.S.	NOT TO SCALE
OA	OUTSIDE AIR
PCU	PROCESS COOLING UNIT
PD	PRESSURE DROP
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RHC	REHEAT COIL
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SAV	SUPPLY AIR VALVE
SD	SUPPLY AIR DIFFUSER
SH	SNORKEL HOOD
TOS	TOP OF STEEL
TSP	TOTAL STATIC PRESSURE
T	THERMOSTAT
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
WB	WET BULB
VSD	VARIABLE FREQUENCY DRIVE

MISC SYMBOL LIST

(OS)	OCCUPANCY SENSOR
(T)	THERMOSTAT OR TEMPERATURE SENSOR
(H)	HUMIDISTAT OR HUMIDITY SENSOR
(S)	ELECTRIC ON/OFF THERMALLY PROTECTED SWITCH WITH PILOT LIGHT
(LD)	SPOT TYPE LIQUID DETECTOR
(SD)	DUCT MOUNTED SMOKE DETECTOR
(CO)	CARBON DIOXIDE DETECTOR
	THERMOSTAT / SENSOR WIRING FROM SENSING DEVICE TO CONTROLLED DEVICE

DIFFUSER/GRILLE TAG

E=EXHAUST
R=RETURN
S=SUPPLY
G=GRILLE
D=DIFFUSER

DIFFUSER #
X#
SIZE
CFM

GENERAL NOTES

1. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS ARE TO PROVIDE A COMPLETE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM FOR THE PROPOSED PROJECT. THE SYSTEMS PROVIDED SHALL CONFORM TO THE DETAILS STATED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS. ITEMS OR WORK NOT SHOWN OR SPECIFIED, BUT REQUIRED FOR A COMPLETE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM, SHALL BE PROVIDED AND SHALL CONFORM WITH ACCEPTED TRADE PRACTICES. ALL WORK SHALL CONFORM TO THE APPLICABLE CODES
2. THE DRAWINGS AND SPECIFICATIONS ARE PRESENTED TO DEFINE SPECIFIC SYSTEM REQUIREMENTS AND SERVE TO EXPAND ON THE PRIMARY CONTRACT REQUIREMENTS OF PROVIDING COMPLETE SYSTEMS. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE GENERAL ARRANGEMENT OF THE ITEMS COMPRISING THE SEVERAL SYSTEMS INCLUDED IN THE HEATING, VENTILATION AND AIR CONDITIONING WORK.
3. DO NOT SCALE THE DRAWINGS. BECAUSE OF THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, VALVES, OR SIMILAR ITEMS WHICH MAY BE REQUIRED TO MAKE A COMPLETE OPERATING SYSTEM. CAREFULLY INVESTIGATE CONDITIONS AFFECTING WORK AND INSTALL WORK IN SUCH A MANNER THAT INTERFERENCES BETWEEN PIPES, CONDUIT, DUCTS, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL FEATURES SHALL BE AVOIDED. PROVIDE ITEMS THAT MAY BE REQUIRED TO MEET THE CONDITIONS AT THE BUILDING.
4. PROTECT FLOORING FROM DAMAGE DURING THE CONSTRUCTION PERIOD. PROVIDE PLYWOOD OR SIMILAR MATERIAL UNDER EQUIPMENT OR MATERIALS STORED ON FLOORS AND IN AREAS WHERE CONSTRUCTION MAY DAMAGE THE FLOOR SURFACES. FLOOR SURFACES (INCLUDING SEALER) DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED AT THE COST OF THE CONTRACTOR AT FAULT.
5. COORDINATE ALL WORK WITH WORK SHOWN ON DRAWINGS FOR OTHER TRADES. COORDINATE EXACT LOCATION OF DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTS REFLECTED CEILING PLANS AND ROOF PLANS.
6. PROVIDE MAINTENANCE AREAS AROUND ALL EQUIPMENT AS REQUIRED BY CODES AND RECOMMENDED BY THE EQUIPMENT MANUFACTURER. PAY PARTICULAR ATTENTION TO COIL AND AIR FILTER ACCESS AND REMOVAL.
7. INDICATED DUCT DIMENSIONS ARE FOR SIZE OF AIR FLOW OPENING.
8. INDICATED DUCT RUNS ARE DIAGRAMMATIC. HVAC CONTRACTOR SHALL DETERMINE ALL REQUIRED OFFSETS AND DIRECTION CHANGES BEFORE FABRICATION AND INSTALLATION TO AVOID INTERFERENCES WITH OTHER TRADES.
9. INSTALL DUCTWORK SO THAT ALL DUCT ACCESSORIES AND ADJACENT DEVICES AND EQUIPMENT ARE ACCESSIBLE.
10. LOCATE ALL ROOM THERMOSTATS 43" (CENTERLINE) ABOVE FINISHED FLOOR ON THE HORIZONTAL CENTERLINE OF THE ROOM LIGHT SWITCH.
11. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
12. PAINT ALL INTERIOR EXPOSED UNINSULATED PIPING DUCTWORK AND SUPPORTS.
13. COORDINATE ALL ELECTRICAL DEVICES AND CONNECTION PRIOR TO RELEASE OF ANY MECHANICAL EQUIPMENT.
14. VERIFY EXACT LOCATION OF ALL THERMOSTATS WITH THE ENGINEER IN THE FIELD BEFORE ROUGH-IN OF THERMOSTATS.
15. VERIFY ALL EXISTING CONDITIONS. RELOCATE ANY EXISTING CONDITIONS REQUIRED TO INSTALL NEW WORK.
16. WHERE DUCTWORK AND PIPING PASS THROUGH FIRE-RATED PARTITIONS, CONTRACTOR SHALL MAINTAIN INTEGRITY OF THE FIRE-RATED PARTITIONS USING U.L. APPROVED SEALING METHODS.
17. EVERY HVAC SYSTEM SHUT-DOWN OR INTERRUPTION OF SERVICE SHALL BE COORDINATED AND SCHEDULED WITH THE OWNER. SYSTEM SHUT DOWNS / INTERRUPTIONS SHALL GENERALLY OCCUR AS OVERNIGHT OR WEEKEND SHUTDOWNS. ANY LONGER-TERM SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER IN ADVANCE AND SHALL BE IDENTIFIED ON THE PROJECT SCHEDULE. PERIODS OF VARIABILITY OF SYSTEM PRESSURE AND/ OR FLOW SHALL BE CONSIDERED AN INTERRUPTION OF SERVICE AND SHALL OCCUR DURING AN OVERNIGHT OR WEEKEND SHUTDOWN.
18. EXISTING HVAC SYSTEMS SERVING OTHER AREAS OF THE BUILDING AND LOCATED WITHIN OR PASSING THROUGH CONSTRUCTION AREAS SHALL REMAIN IN SERVICE UNLESS SPECIFIED, INDICATED, OR NOTED OTHERWISE. PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SYSTEM SERVICE.
19. PHASING AND SEQUENCING OF DEMOLITION, TEMPORARY AND/OR PERMANENT CONNECTIONS, AND NEW WORK SHALL BE AT THE DIRECTION OF THE OWNER.

NEW YORK STATE CODE NOTES

ALL SYSTEMS AND EQUIPMENT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE FOLLOWING AND ALL OTHER APPLICABLE LOCAL AND STATE CODES:

- 2020 NEW YORK STATE BUILDING CODE
- 2020 NEW YORK STATE PLUMBING CODE
- 2020 NEW YORK STATE MECHANICAL CODE
- 2020 NEW YORK STATE FUEL GAS CODE
- 2020 NEW YORK STATE FIRE CODE
- 2020 NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THE PLANS AND SPECIFICATIONS BEARING MY RESPECTIVE PROFESSIONAL SEAL AND SIGNATURE ARE IN COMPLIANCE WITH THE ENERGY CODE.

SEISMIC DESIGN CRITERIA

SEISMIC RISK CATEGORY	IV
SEISMIC IMPORTANCE FACTOR, Ie	1.5
MAPPED SPECTRAL RESPONSE Sms AND Sm1	.444/.144
SEISMIC SITE CLASS	D
DESIGN SPECTRAL RESPONSE Sds AND Sd1	.296/.096
SEISMIC DESIGN CATEGORY	C
BASIC SEISMIC FORCE - RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR(S)	0.170 x W
SEISMIC RESPONSE COEFFICIENT(S), CS.	.0170
RESPONSE MODIFICATION COEFFICIENT, R.	2.00
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE

NOTES:
1. STRUCTURAL DESIGN INFORMATION INCLUDED FOR REFERENCE ONLY. SEE STRUCTURAL DESIGN DRAWINGS.
2. **SEISMIC BRACING SHALL BE PROVIDED PER NEW YORK STATE BUILDING CODE, NEW YORK STATE FIRE CODE, ASCE 7, AND NFPA 13.**

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	MH	TAH	JR	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

STATE OF NEW YORK
MICHAEL C. CLARK
084107
LICENSED PROFESSIONAL ENGINEER

Client/Project Logo

1660 1904
CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
MECHANICAL LEAD SHEET

Project No.
192311093

Scale
12" = 1'-0"

Date
2024.07.23

Drawing No.
M-000

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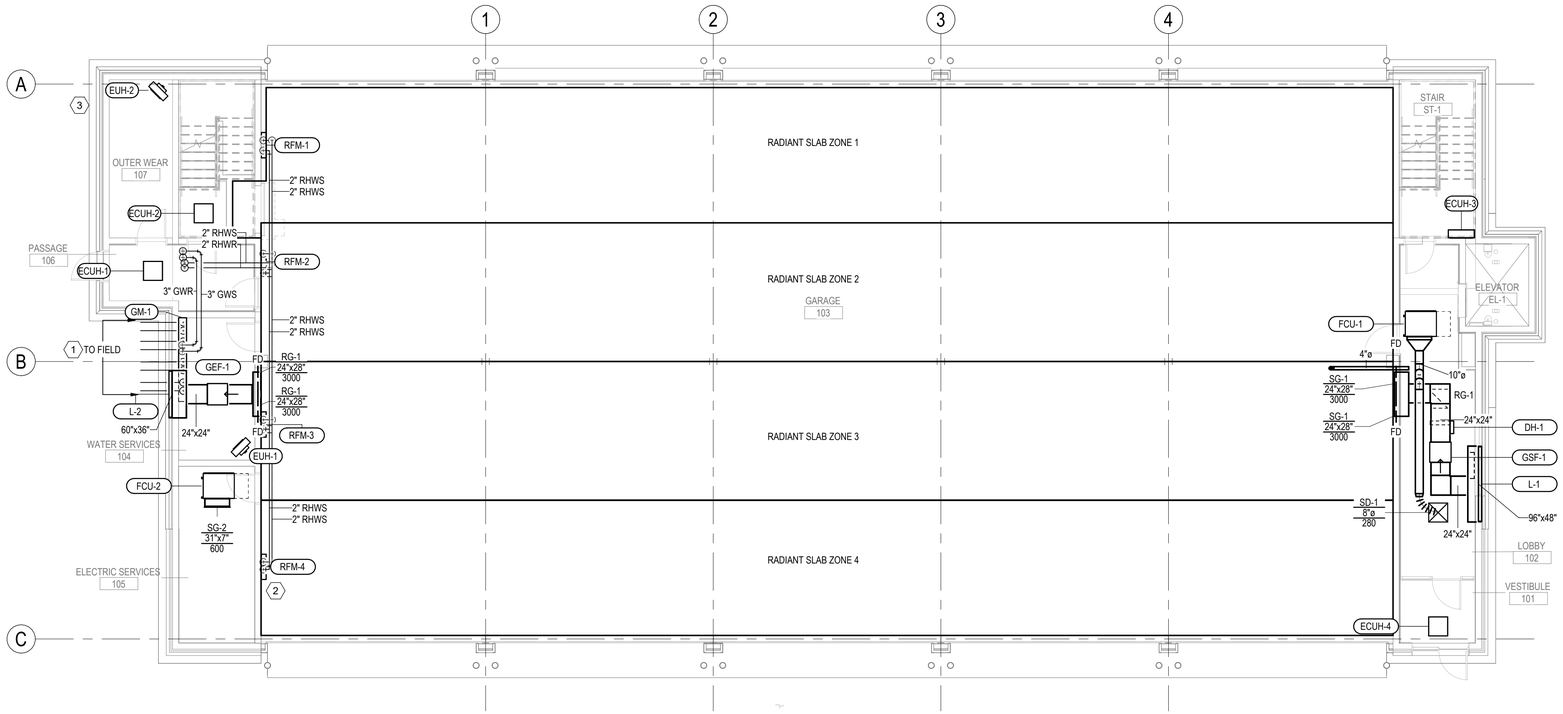
ORIGINAL SHEET - ANSI D



1 MECHANICAL FIRST FLOOR PLAN

M-101

1/8" = 1'-0"

GENERAL NOTES

1. ALL MATERIALS SHALL BE ABOVE CEILING SHALL BE UL LISTED AND BE RATED FOR THE FOLLOWING MAXIMUM VALUES:
   A. SMOKE DEVELOPED INDEX: 50
   B. FLAME SPREAD INDEX: 25
2. INSTALL 24X12 SOUND BOOTS SB IN PARTITIONS FOLLOWING WALL PENETRATION DETAIL X/M-50X. PROVIDE HERCULES INDUSTRIES SB2412.
3. FIRESTOP ALL PENETRATIONS THROUGH RATED ASSEMBLIES AND LABEL.
4. PROVIDE FLEXIBLE CONNECTORS ON EACH DUCTWORK CONNECTION TO EQUIPMENT.

KEYED NOTES (#)

1. 1-1/4" GEOTHERMAL WATER SUPPLY AND RETURN PIPING TO WELLS. REFER TO CIVIL PLANS FOR FURTHER INFORMATION.
2. INSTALL CO AND NO2 GAS SENSORS ON WALL 42" AFF.
3. INSTALL CLOTHING DRYER VENT OUTLET THROUGH WALL LOW PROFILE TERMINATION ON WALL. COORDINATE FINAL LOCATION WITH OWNER. BASIS OF DESIGN: INOVATE TECHNOLOGIES, INC., MODEL: DWV. COLOR COORDINATE WITH ARCHITECT.

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MICHAEL GEORGE HEATH
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LICENSED PROFESSIONAL ENGINEER

Client/Project Logo

1660 1904
CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
MECHANICAL FIRST FLOOR PLAN

Project No.
192311093

Scale
1/8" = 1'-0"

Date
2024.07.23

Drawing No.
M-101

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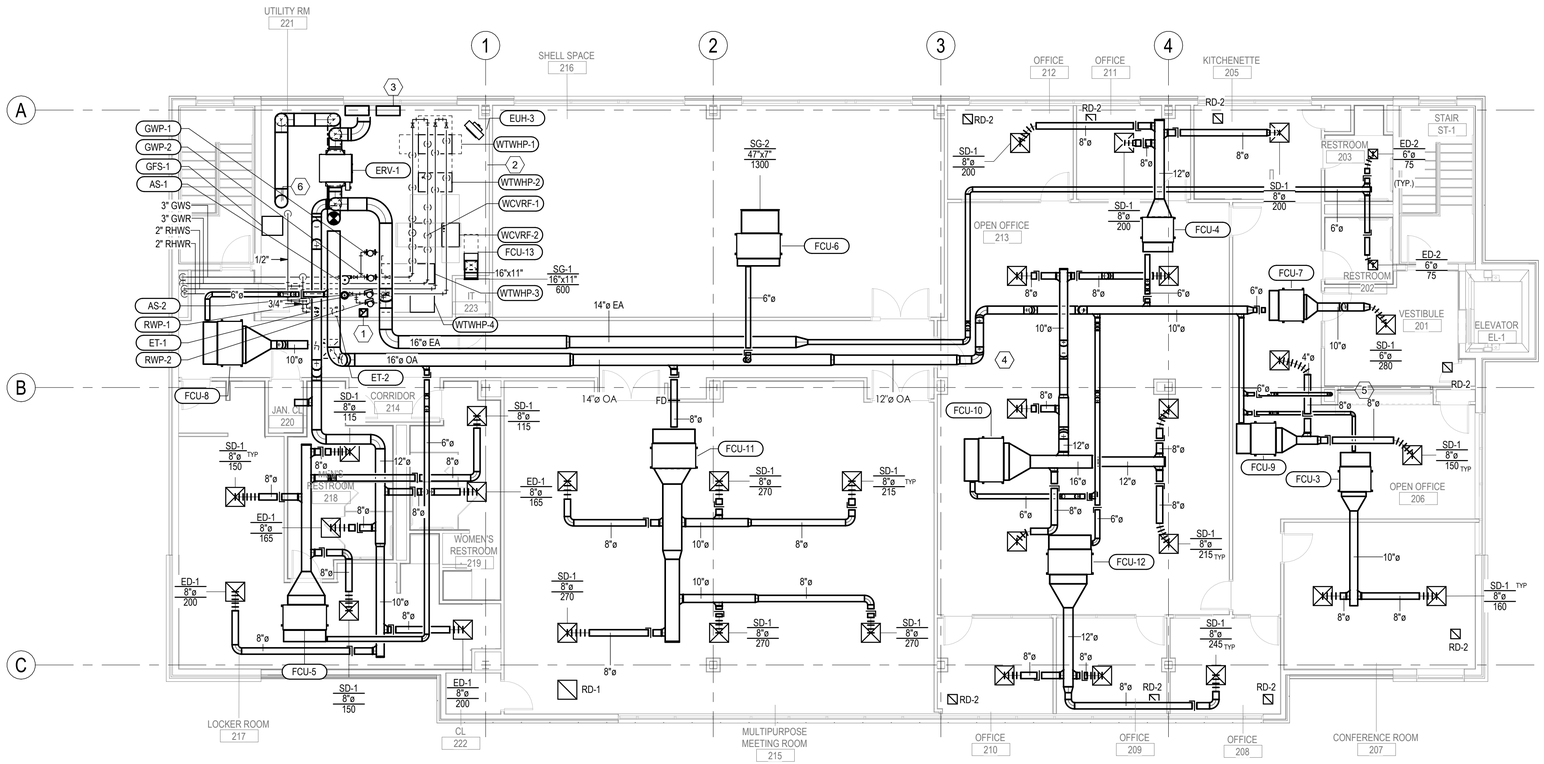

1 MECHANICAL SECOND FLOOR PLAN

M-102

1/8" = 1'-0"

GENERAL NOTES

1. ALL MATERIALS SHALL BE ABOVE CEILING SHALL BE UL LISTED AND BE RATED FOR THE FOLLOWING MAXIMUM VALUES:
   A. SMOKE DEVELOPED INDEX: 50
   B. FLAME SPREAD INDEX: 25
2. INSTALL TRANSFER DUCT PARTITIONS WALLS FOLLOWING WALL PENETRATION DETAIL 4/M-503.
3. FIRESTOP ALL PENETRATIONS THROUGH RATED ASSEMBLIES AND LABEL.
4. PROVIDE FLEXABLE CONNECTORS ON EACH DUCTWORK CONNECTION TO EQUIPMENT.
5. PROVIDE MIXING BOX FOR EACH FAN COIL UNIT.
6. INSTALL MOTORIZED DAMPER FOR EACH FAN COIL UNIT'S VENTILATION DUCT.

KEYED NOTES ⟨#⟩

1. 10x10 DOWN FROM EF-1 ON ROOF. TRANSITION TO 10X8 AND RUN TO 18" AFF. INSTALL 3/4" WIRE MESH ON FACE OF DUCTWORK.
2. INSTALL CTI GAS SENSOR FOR R410A AT 18" AFF.
3. INSTALL INTAKE DUCT 20X18 WITH MOTORIZED ISOLATION DAMPER.
4. INSTALL 3/4" WIRE MESH ON FACE OF DUCTWORK.
5. INSTALL HORIZONTAL FIRE DAMPER AT FLOOR PENETRATION. INSTALL ACCESS DOOR IN VESTIBULE FOR SERVICE AND TESTING OF FIRE DAMPER.
6. UP TO ROOF, TERMINATE WITH GOOSENECK PER DETAIL 3/M-503.

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ORIGINAL SHEET - ANSI D

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Permit/Seal

STATE OF NEW YORK
MICHAEL G. HOKE, JR. PE
092107
LICENSED PROFESSIONAL ENGINEER

Client/Project Logo

1660 1904
CITY OF RYE NY 1942

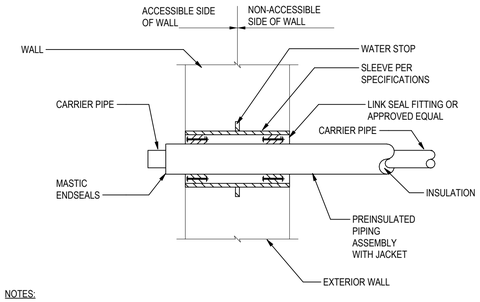
Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
MECHANICAL SECOND FLOOR PLAN

Project No.	Scale
192311093	1/8" = 1'-0"
Date	Drawing No.
2024.07.23	M-102

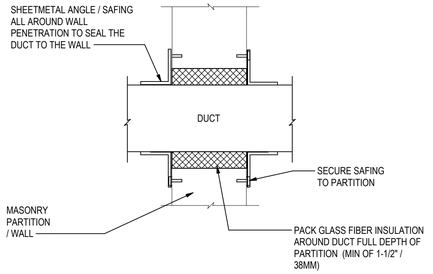


NOTES:

1. INSTALL PER THE MFR INSTALLATION REQUIREMENTS FOR SEALING THE SLEEVE
2. FOLLOW THE PREINSULATED PIPING MFRS REQUIREMENTS FOR THE INSTALLATION OF THAT SYSTEM.
3. REFER TO THE CONTRACT DOCUMENTS FOR PIPE MATERIAL AND INSULATION REQUIREMENTS.
4. FOR NEW WALLS, THE SLEEVE SHALL BE CAST IN PLACE. FOR EXISTING WALLS, CORE DRILL THE REQUIRED OPENING FOR THE WHOLE ASSEMBLY.
5. EXTEND THE INSULATION / JACKET A MINIMUM OF 6 INCHES / 16 CM PAST THE WALL. THE CARRIER PIPE SHALL EXTEND ANOTHER 6 INCHES / 16 CM PAST THE INSULATION / JACKET.

1 M-500 PIPE PASSING THROUGH EXTERIOR WALL DETAIL - INSULATED PIPE

N.T.S.



NOTES:

1. FOR INSULATED DUCTWORK, INSULATE THE DUCTWORK UP TO WALL. THE INSULATION SHALL TERMINATE TO COVER THE WHOLE SHEET METAL ANGLE. TAPE TO THE WALL TO SEAL.
2. SEAL WITH A NON HARDENING ACOUSTICAL SEALANT BETWEEN THE ANGLE / WALL AND THE ANGLE / DUCT.
3. ADDITIONAL REQUIREMENTS ARE REQUIRED FOR RATED WALLS, REFER TO THE CONTRACT DOCUMENTS.

2 M-500 DUCT PASSING THROUGH MASONRY WALL DETAIL

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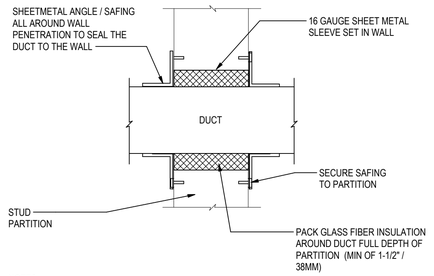
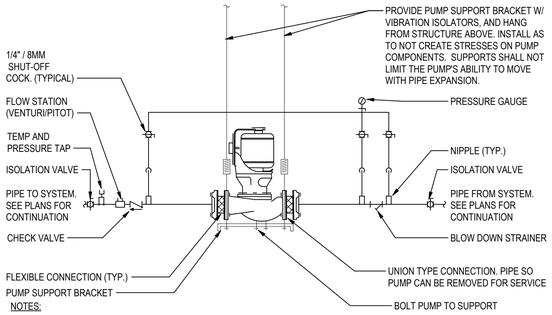


NOTES:

1. FOR INSULATED DUCTWORK, INSULATE THE DUCTWORK UP TO WALL. THE INSULATION SHALL TERMINATE TO COVER THE WHOLE SHEET METAL ANGLE. TAPE TO THE WALL TO SEAL.
2. SEAL WITH A NON HARDENING ACOUSTICAL SEALANT BETWEEN THE ANGLE / WALL AND THE ANGLE / DUCT.
3. ADDITIONAL REQUIREMENTS ARE REQUIRED FOR RATED WALLS, REFER TO THE CONTRACT DOCUMENTS.

3 M-500 DUCT PASSING THROUGH STUD WALL PARTITION DETAIL

N.T.S.

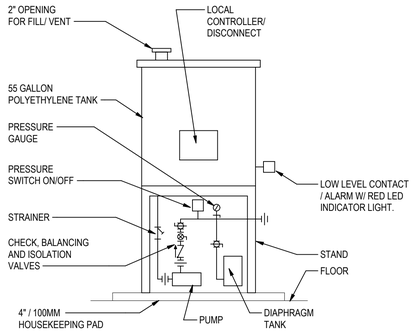


NOTES:

1. SHUT OFF VALVES AND ACCESSORIES SHALL BE THE SAME SIZE AS THE SYSTEM PIPING.
2. ISOLATION VALVES ARE SHOWN AS BALL VALVES, REFER TO THE SPECIFICATIONS FOR THE SPECIFIC VALVE TYPE BASED ON THE PIPE SIZE AND APPLICATION.
3. PROVIDE REMOVABLE INSULATION FOR CHILLED WATER PUMPS TO PREVENT CONDENSATION. THE INTENT IS FOR THE STRAINER TO BE THE LOW POINT DRAIN, IF THE STRAINER IS NOT IN THE LOW POINT OF THE
4. SYSTEM PROVIDE AN ADDITIONAL DRAIN VALVE WITH HOSE CONNECTION AND CAP.
5. PIPING ASSOCIATED WITH THE PRESSURE GAUGES SHALL BE RUN SO AS TO NOT BLOCK THE REMOVAL OF THE PUMP OR BLOCK ACCESS TO ANY COMPONENT. PROVIDE ADDITIONAL SHUT OFF VALVES AS REQUIRED TO FACILITATE THE
6. REMOVAL AND RE-INSTALLATION OF THE SENSING LINES AS NEEDED.

4 M-500 INLINE PUMP DETAIL (OVER 1 HP) - VARIABLE SPEED

N.T.S.



NOTES:

1. THE SYSTEM SHALL HAVE PACKAGED CONTROLS TO MAINTAIN THE SYSTEM PRESSURE SETPOINT.
2. EXTEND ALL PRESSURE RELIEF VALVE DISCHARGE PIPING AND AUTOMATIC AIR VENT DISCHARGE PIPING BACK TO THE GLYCOL FILL TANK.
3. THE FILL LINE SHALL BE A MINIMUM OF 1" / 25MM UNLESS NOTED OTHERWISE.
4. DUPLEX FILL STATIONS ARE SIMILAR, EXCEPT THAT THEY HAVE 2 SETS OF PUMPS

5 M-500 GLYCOL FILL TANK PIPING DETAIL

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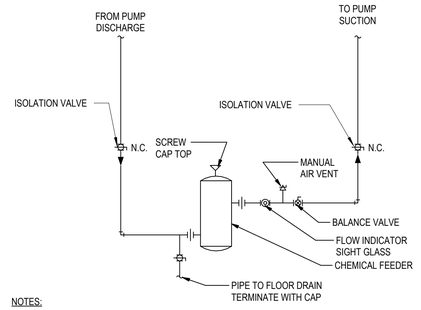

NOTES:

1. MAXIMUM MOUNTING HEIGHT FROM FLOOR TO FUNNEL SHALL BE 48" / 1220MM.
2. THE CHEMICAL TREATMENT CONTRACTOR SHALL COORDINATE WITH THE TAB CONTRACTOR TO BALANCE THE FEEDER.
3. THE FEEDER LINE SHALL BE A MINIMUM OF 1" / 25MM UNLESS NOTED OTHERWISE.
4. ISOLATION VALVES ARE SHOWN AS BALL VALVES, REFER TO THE SPECIFICATIONS FOR THE SPECIFIC VALVE TYPE BASED ON THE PIPE SIZE AND APPLICATION.
5. PROVIDE STAND TO SUPPORT THE CHEMICAL FEEDER FROM THE FLOOR / PAD

6 M-500 CHEMICAL CLOSED SYSTEM FEEDER PIPING DETAIL

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MECHANICAL DETAILS

Project No.
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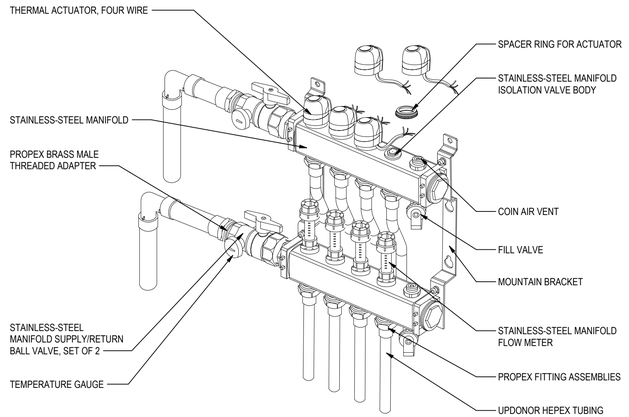
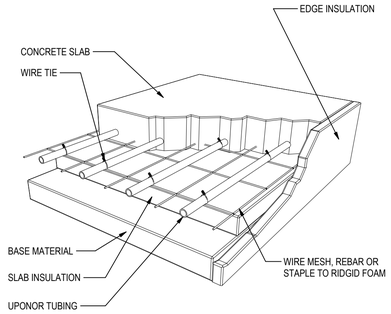


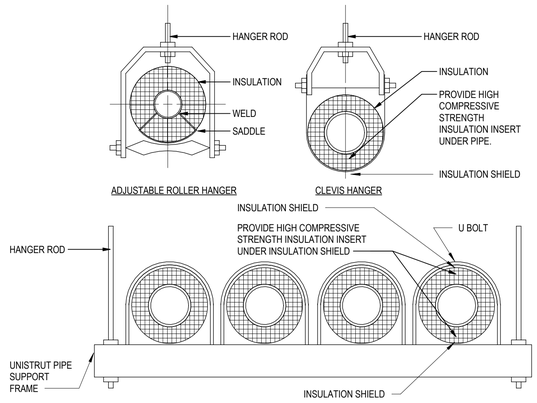
1 RADIAT FLOOR MANIFOLD DETAIL

1 / M-501 N.T.S.



2 RADIANT FLOOR PIPING DETAIL

2 / M-501 N.T.S.

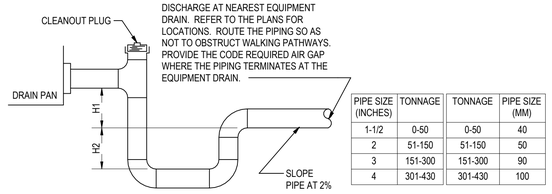


NOTES:

1. FOLLOW THE CONTRACTOR DOCUMENTS FOR WHERE EACH HANGER TYPE APPLIES
2. FOLLOW REQUIREMENTS FOR VIBRATION ISOLATION AND SEISMIC AS NOTED IN THE CONTRACT DOCUMENTS.

3 PIPE HANGER DETAIL1

3 / M-501 N.T.S.



PIPE SIZE (INCHES)	TONNAGE	TONNAGE	PIPE SIZE (MM)
1-1/2	0-50	0-50	40
2	51-150	51-150	50
3	151-300	151-300	90
4	301-430	301-430	100

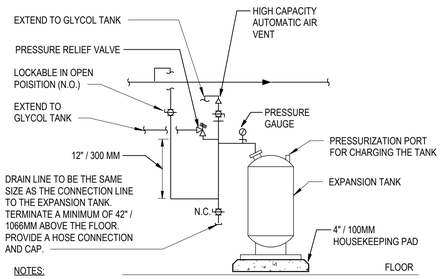
H : BLOW-THRU = 1 INCH (25MM)
H : DRAW-THRU = FAN INLET PRESSURE (IN WC) + 1 INCH OR FAN INLET PRESSURE IN MM + 25MM
H _: BLOW-THRU = 1.5 TIMES FAN OUTLET PRESSURE (IN WC) + 1 INCH OR 1 1/2 TIMES FAN OUTLET PRESSURE IN MM + 25MM
H _: DRAW-THRU = 1.5 TIMES FAN INLET PRESSURE (IN WC) + 1/2 INCH OR 1.5 TIMES FAN INLET PRESSURE IN MM + 13MM

NOTES:

1. INCREASE UNIT PAD / STRUCTURE / CURB HEIGHT FOR FLOOR MOUNTED EQUIPMENT TO ACHIEVE THE HEIGHT REQUIRED TO INSTALL THE TRAP DEPTH. THE PRESSURES SHALL BE BASED ON 1.25 TIMES THE SCHEDULED AHU STATIC PRESSURE.
2. IF THE TRAP IS LOCATED OUTDOOR OR IN AN UN-HEATED SPACE, PROVIDE A DRAIN W/ BALL VALVE IN THE LOW POINT OF THE TRAP WITH A CAP. THIS WILL ALLOW THE TRAP TO BE DRAINED IF REQUIRED.
3. REFER TO THE CONTRACT DOCUMENTS FOR PIPE MATERIAL AND INSULATION REQUIREMENTS.
4. THE TRAP PIPE SIZE SHALL BE A MINIMUM OF 1-1/2" / 40MM. REFER TO THE CHART ABOVE FOR THE CONDENSATE DRAIN SIZE (UNLESS NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS THAT THE PIPE SIZE SHOULD BE LARGER THAN NOTED IN THE CHART). THE DRAIN LINE SHALL NEVER BE SMALLER THAN THE DRAIN PAN CONNECTION.

4 DEEP SEAL CONDENSATE TRAP DETAIL

4 / M-501 N.T.S.

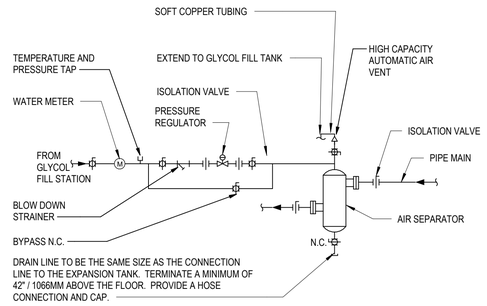


NOTES:

1. PITCH ALL PIPING FOR PROPER DRAINAGE.
2. ISOLATION VALVES ARE SHOWN AS BALL VALVES, REFER TO THE SPECIFICATIONS FOR THE SPECIFIC VALVE TYPE BASED ON THE PIPE SIZE AND APPLICATION.
3. PROVIDE INSULATION FOR EXPANSION TANK FOR CHILLED WATER APPLICATIONS TO PREVENT CONDENSATION.
4. PROVIDE A 55 GALLON DRUM AND LOCATE UNDER THE DRAIN LINE. PROVIDE A SHORT HOSE TO EXTEND FROM THE HOSE CONNECTION TO THE DRUM.
5. IF IT IS NOT POSSIBLE TO EXTEND THE PRESSURE RELIEF PIPING TO THE GLYCOL FILL STATION, EXTEND IT TO THE DRAIN DRUM.
6. THE PIPING TO THE EXPANSION TANK SHALL BE A MINIMUM OF 1" / 25MM, REFER TO THE PIPE SIZE SHOWN IN THE CONTRACT DOCUMENTS.
7. PROVIDE A STAND FOR THE EXPANSION TANK AS REQUIRED TO ACHIEVE THE REQUIRED ELEVATIONS.
8. THE CONTRACTOR SHALL LEAVE (1) EMPTY 55 GALLON GLYCOL CONTAINER IN THE MECHANICAL ROOM TO USE TO CONTAIN ANY DRAINED GLYCOL SOLUTION.

5 EXPANSION TANK W/ GLYCOL FILL

5 / M-501 N.T.S.



NOTES:

1. ISOLATION VALVES ARE SHOWN AS BALL VALVES AND BUTTERFLY VALVE, REFER TO THE SPECIFICATIONS FOR THE SPECIFIC VALVE TYPE BASED ON THE PIPE SIZE AND APPLICATION.
2. PROVIDE INSULATION FOR AIR SEPARATOR FOR CHILLED WATER APPLICATIONS TO PREVENT CONDENSATION.
3. THE CONTRACTOR SHALL LEAVE (1) EMPTY 55 GALLON GLYCOL CONTAINER IN THE MECHANICAL ROOM TO USE TO CONTAIN ANY DRAINED GLYCOL SOLUTION.

6 AIR SEPARATOR W/ GLYCOL FILL

6 / M-501 N.T.S.

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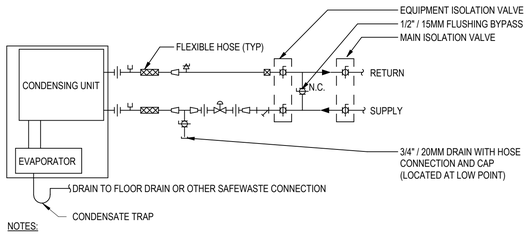

NOTES:

1. INSULATE THE HEATING COIL TO PREVENT HEAT LOSS / CONDENSATION.
2. THE EQUIPMENT DRAIN IS SEPARATE FROM THE BLOW DOWN STRAINER DRAIN.
3. PIPE TAPS FROM THE MAIN SHALL BE OFF OF THE TOP OF THE MAIN EXCEPT WHERE NOTED OTHERWISE.
4. THE EQUIPMENT ISOLATION VALVES SHALL BE CLOSED WHEN INSTALLED AND THE FLUSHING BYPASS VALVE SHALL BE OPEN. AFTER THE INITIAL FLUSHING, THE FLUSHING BYPASS VALVE SHALL BE CLOSED AND THE HANDLE REMOVED. THE EQUIPMENT ISOLATION VALVES SHALL BE OPENED.
5. ALL CONTROL VALVES SHALL BE 2-WAY VALVES EXCEPT THOSE NOTED IN THE CONTRACT DOCUMENTS TO BE 3-WAY VALVES.
6. IF THE MECHANICAL CONTRACTOR USES QUICK CONNECT KITS, WHERE THE EQUIPMENT ISOLATION VALVE IS PART OF ANOTHER COMPONENT, THEN PROVIDE THE MAIN ISOLATION VALVES (OTHERWISE THEY ARE NOT REQUIRED).
7. ISOLATION VALVES ARE SHOWN AS BALL VALVES, REFER TO THE CONTRACT DOCUMENTS FOR THE SPECIFIC VALVE TYPE BASED ON THE PIPE SIZE AND APPLICATION.
8. SHUT OFF VALVES AND ACCESSORIES SHALL BE THE SAME SIZE AS THE SYSTEM PIPING. TRANSITION TO THE COIL CONNECTION SIZE AT THE COIL.
9. ALL STRAINERS SHALL BE BLOW DOWN TYPE WITH AN ISOLATION VALVE AND CAP.
10. PROVIDE A HIGH LIMIT DRAIN PAN SENSOR AND HARD WIRE TO THE FAN / CONTROLLER TO SHUT OFF THE UNIT BASED ON A HIGH LEVEL LIMIT
11. WATER COOLED UNITS ARE TYPICALLY 2 POSITION CONTROL VALVES WITH "HIGH FLOWS" WHEN ON SO 2-WAY CONTROL VALVE AND FLOW LIMITING BALANCING VALVES IS THE RECOMMENDED CONFIGURATION UNLESS THE SYSTEM DESIGN DICTATES SOMETHING ELSE.

1 M-502 WATER COOLED CONDENSING UNIT PIPING DETAIL

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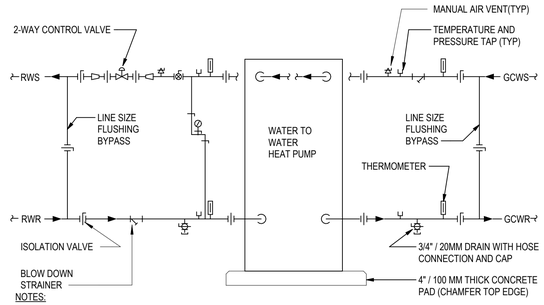

NOTES:

1. LOCATE PIPING TO FACILITATE THE REQUIRED ACCESS AND THE REMOVAL OF UNIT.
2. PIPE MULTIPLE UNITS IN REVERSE RETURN SO THAT THE FLOW SELF BALANCES
3. SHUT OFF VALVES AND ACCESSORIES SHALL BE THE SAME SIZE AS THE SYSTEM PIPING. TRANSITION TO THE HEAT EXCHANGER INLET/OUTLET SIZES AT THE HEAT EXCHANGER
4. ISOLATION VALVES ARE SHOWN AS BUTTERFLY VALVES, REFER TO THE SPECIFICATIONS FOR THE SPECIFIC VALVE TYPE BASED ON THE PIPE SIZE AND APPLICATION.
5. PIPING ASSOCIATED WITH THE PRESSURE GAUGES SHALL BE RUN SO AS TO NOT BLOCK THE REMOVAL OF THE PUMP OR BLOCK ACCESS TO ANY COMPONENT. PROVIDE ADDITION SHUT OFF VALVES AS REQUIRED TO FACILITATE THE REMOVAL AND RE-INSTALLATION OF THE SENSING LINES AS NEEDED.
6. QUICK CONNECT KITS ARE NOT TO BE USED. ALL VALVES SHALL BE INDEPENDENT COMPONENTS.
7. THE EQUIPMENT ISOLATION VALVES SHALL BE CLOSED WHEN INSTALLED AND THE FLUSHING BYPASS VALVE SHALL BE OPEN. AFTER THE INITIAL FLUSHING, THE FLUSHING BYPASS VALVE SHALL BE CLOSED AND THE HANDLE REMOVED. THE EQUIPMENT ISOLATION VALVES SHALL BE OPENED.
8. QUICK CONNECT KITS ARE NOT TO BE USED. ALL VALVES SHALL BE INDEPENDENT COMPONENTS.

2 M-502 WATER TO WATER HEAT PUMP DETAIL

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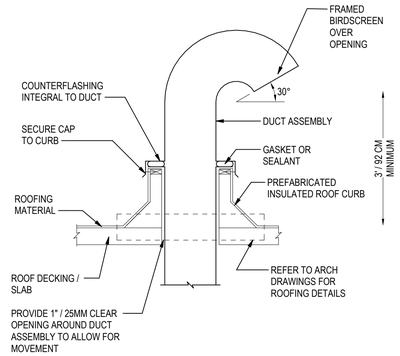
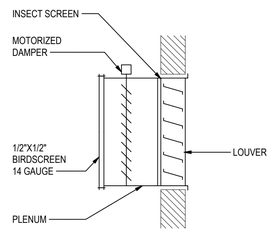


NOTES:

1. COORDINATE SCOPE OF WORK WITH ROOFING CONTRACTOR / OWNER TO NOT VOID ANY WARRANTEES
2. REFER TO THE CONTRACT DOCUMENTS FOR DUCT MATERIAL AND INSULATION REQUIREMENTS.
3. IF THERE IS A CHANGE IN DUCT MATERIAL / INSULATION BETWEEN EXTERIOR AND INTERIOR DUCTWORK, MAKE THE TRANSITION 6"/150MM BELOW THE DECK / SLAB.
4. PROVIDE THE REQUIRED TRANSITION BETWEEN DIFFERENT DUCT MATERIALS IF THERE IS A CHANGE IN DUCT MATERIAL.
5. THE CURB INSULATION SHALL BE EQUAL TO THE ROOF INSULATION RATING

3 M-502 GOOSENECK ON ROOF CURB DETAIL

N.T.S.

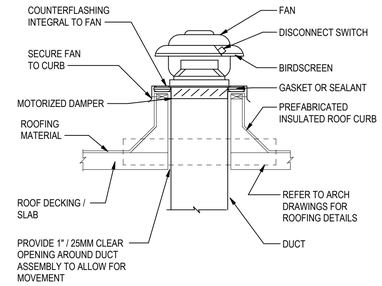


NOTES:

1. PROVIDE AN INSULATED BLANK OFF PANEL OVER THE LOUVER IF THE PLENUM IS NOTED TO BE A SMALLER SIZE THAN THE LOUVER PER THE CONTRACT DOCUMENTS.
2. REFER TO THE CONTRACT DOCUMENTS FOR DUCT MATERIAL AND INSULATION REQUIREMENTS.

4 M-502 INTAKE DETAIL

N.T.S.

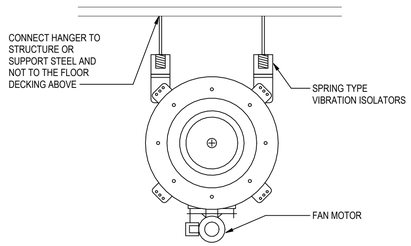


NOTES:

1. COORDINATE SCOPE OF WORK WITH ROOFING CONTRACTOR / OWNER TO NOT VOID ANY WARRANTEES
2. REFER TO THE CONTRACT DOCUMENTS FOR DUCT MATERIAL AND INSULATION REQUIREMENTS.
3. THE CURB INSULATION SHALL BE EQUAL TO THE ROOF INSULATION RATING
4. COORDINATE THE LOCATION AND SIZE OF THE EQUIPMENT RAIL BASED ON THE EQUIPMENT.
5. THE PURPOSE OF THE EQUIPMENT CURB IS TO SUPPORT THE WEIGHT OF THE EQUIPMENT. IT SHALL BE RATED FOR THE OPERATING WEIGHT OF THE EQUIPMENT. FOLLOW VIBRATION / SEISMIC REQUIREMENTS PER THE CONTRACT DOCUMENTS.
6. THE TOP OF THE CURB IS TO BE MOUNTED A MINIMUM OF 18 INCHES / 46 CM ABOVE THE TOP OF THE ROOF UNLESS NOTED OTHERWISE.
7. PROVIDE A HINGED FAN BASE FOR ACCESS TO THE MOTORIZED DAMPER

5 M-502 ROOF MOUNTED EXHAUST FAN DETAIL

N.T.S.



NOTES:

1. REFER TO THE CONTRACT DOCUMENTS FOR DUCT MATERIAL AND INSULATION REQUIREMENTS.
2. THE STRAIGHT DUCT BEFORE AND AFTER THE FAN SHALL BE A MINIMUM OF 3 DUCT DIAMETERS.
3. FOLLOW VIBRATION / SEISMIC REQUIREMENTS PER THE CONTRACT DOCUMENTS.
4. DO NOT INSTALL ANYTHING DIRECTLY BELOW THE FAN WHICH WOULD BLOCK DROPPING THE FAN DOWN TO THE FLOOR FOR MAINTENANCE.
5. REFER TO THE CONTRACT DOCUMENTS FOR THE MOTOR TYPE (DIRECT OR BELT DRIVE)

6 M-502 IN-LINE FAN DETAIL

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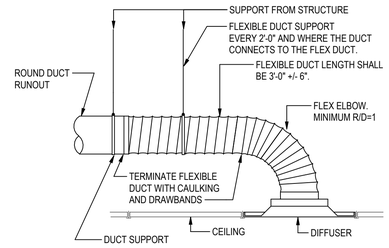

NOTES:

1. PROVIDE INSULATION TO DIFFUSER NECK ON SUPPLY DIFFUSERS.
2. PROVIDE FLEXIBLE DUCT SUPPORTS AT THE ELBOW TO KEEP SMOOTH THE ELBOW SHAPE.

1 M-503 ROUND DIFFUSER TERMINATION DETAIL - FLEX ELBOW

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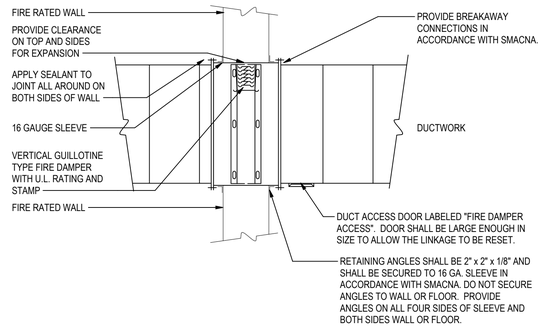
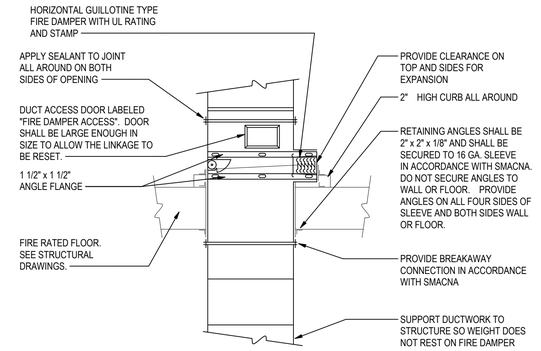


NOTES:

1. FOLLOW ALL OF THE MFRS MINIMUM INSTALLATION REQUIREMENTS FOR A UL RATED ASSEMBLY
2. PROVIDE EXTERNAL INSULATION (IF REQUIRED PER THE CONTRACT DOCUMENTS) UP TO THE WALL AND COVERING ALL OF THE ANGLES.
3. THE INTENT IS FOR THE DAMPER SLEEVE (ACCESSIBLE SIDE) TO BE AS SHORT AS POSSIBLE (LESS THAN MAX) GIVEN THE DAMPER WALL ASSEMBLY AND ACHIEVING THE UL WALL RATING.

2 M-503 STYLE 'A' WALL FIRE DAMPER DETAIL

N.T.S.



NOTES:

1. FOLLOW ALL OF THE MFRS MINIMUM INSTALLATION REQUIREMENTS FOR A UL RATED ASSEMBLY
2. PROVIDE EXTERNAL INSULATION (IF REQUIRED PER THE CONTRACT DOCUMENTS) UP TO THE WALL AND COVERING ALL OF THE ANGLES.
3. THE INTENT IS FOR THE DAMPER SLEEVE (ACCESSIBLE SIDE) TO BE AS SHORT AS POSSIBLE (LESS THAN MAX) GIVEN THE DAMPER WALL ASSEMBLY AND ACHIEVING THE UL WALL RATING.

3 M-503 STYLE 'A' ABOVE FLOOR FIRE DAMPER DETAIL

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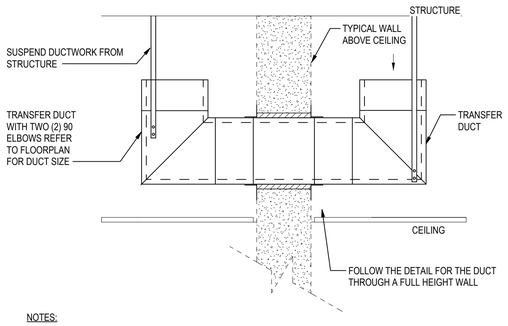

NOTES:

1. THIS DETAIL IS TYPICAL FOR A NON FIRE-RATED ASSEMBLIES, FOR A RATED ASSEMBLY ADDITIONAL SCOPE WOULD BE REQUIRED TO MAINTAIN THE RATING. REFER TO THE CONTRACT DOCUMENTS.
2. THE ELBOWS CAN BE IN THE HORIZONTAL OR VERTICAL DEPENDING ON THE LOCATION. THEY CAN ALSO FORM A "U" SHAPE OR A "Z" SHAPE. THIS DETAIL SHOWS THE VERTICAL APPROACH WITH A "U" SHAPE.. REFER TO THE CONTRACT DOCUMENTS FOR THE CONFIGURATION FOR EACH INSTANCE.
3. THE LENGTH SHALL VARY TO PREVENT LINE OF SITE THROUGH THE ASSEMBLY.
4. THE TRANSFER DUCT SHALL BE INTERNALLY LINED. REFER TO THE CONTRACT DOCUMENTS FOR DUCT MATERIAL AND INSULATION REQUIREMENTS.

4 M-503 TRANSFER DUCT DETAIL

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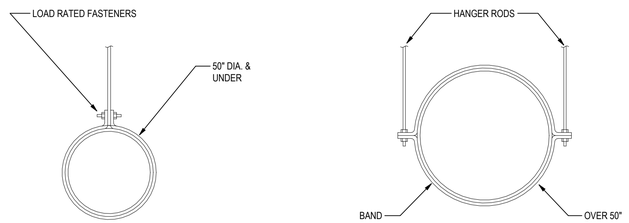

HANGER STRAPS OR RODS			
MAX. CUT DIAMETER	HANGER	MAX. LOAD LBS	MAX. SPACING FT.
26"	ONE 1" X 22 GA STRAP	260	12
36"	ONE 1" X 18 GA STRAP	420	12
50"	ONE 1" X 16 GA STRAP	700	12
60"	TWO 3/8" DIA. RODS	1320	12
84"	TWO 1/2" DIA. RODS	2500	12

NOTES:

1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.
2. INSULATION AROUND HANGER.

5 M-503 ROUND DUCTWORK HANGER DETAIL AND SCHEDULE

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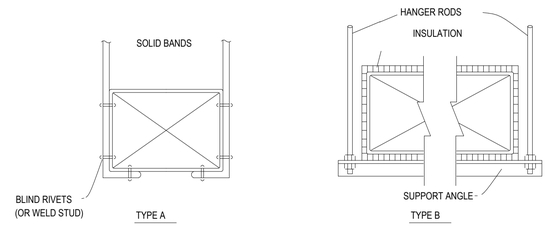

DUCT WIDTH	ROD DIAMETER	TYPE	SUPPORT ANGLE	MAX. SPACING
UP TO 24"	USE 1"X1/8"	A	NONE	4'-0" O.C.
25" TO 36"	3/8"	B	1 1/2"X1 1/2"X1/8"	8'-0" O.C.
37" TO 48"	3/8"	B	2"X2"X1/8"	8'-0" O.C.
49" TO 60"	3/8"	B	2"X2"X3/16"	6'-0" O.C.
61" TO 84"	3/8"	B	2"X2"X1/4"	6'-0" O.C.
ABOVE	3/8"	B	SELECT FOR 1/2" MAX. DEFLECTION AT DES. LD	6'-0" O.C.

6 M-503 DUCTWORK HANGER DETAIL AND SCHEDULE

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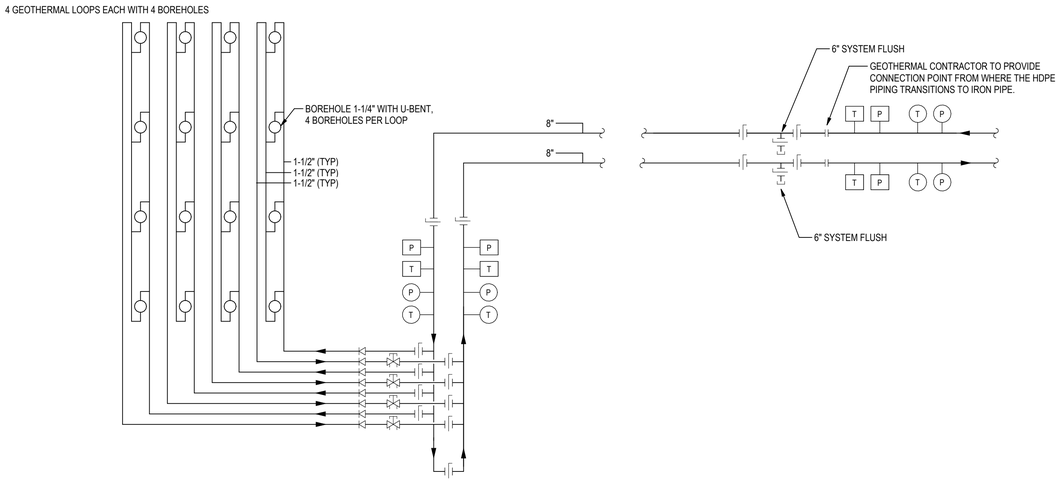
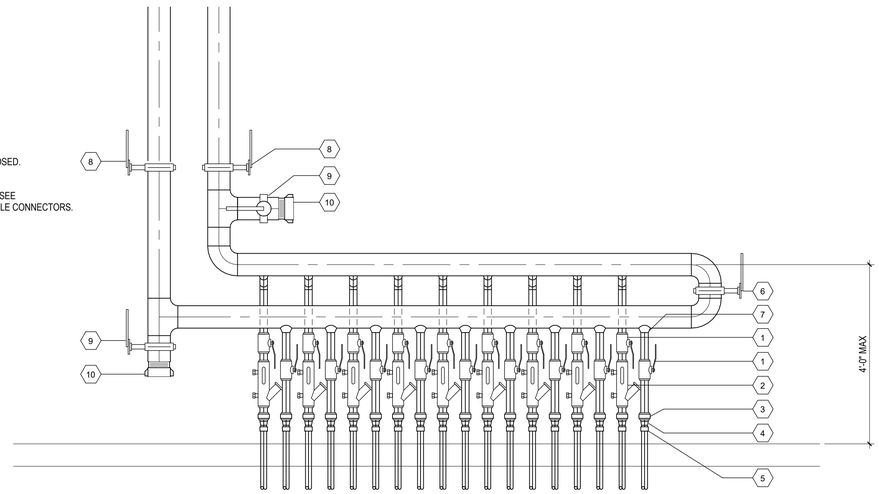


1 M-504 GEOTHERMAL BOREHOLE PIPING SCHEMATIC

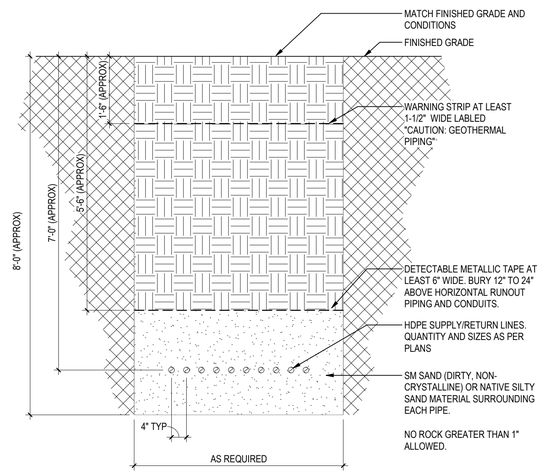
N.T.S.

1. ISOLATION VALVE
2. HAYES AUTOFLOW VALVE
3. UNION.
4. REDUCER
5. STEEL TO HDPE ADAPTER.
6. BYPASS VALVE. NORMALLY CLOSED.
7. THREADED PIPE CONNECTION. SEE SPECIFICATION FOR ACCEPTABLE CONNECTORS.
8. 6"Ø ISOLATION VALVE
9. 6"Ø VALVE. SYSTEM FLUSH.
10. 6"Ø THREADED CAP



3 M-504 GEOTHERMAL MANIFOLD DETAIL

N.T.S.



5 M-504 GEOTHERMAL TRENCH DETAIL

N.T.S.

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ORIGINAL SHEET - ANSI D

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Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	MH	TAH	JR	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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STATE OF NEW YORK
MICHAEL R. BONE
094107
LICENSED PROFESSIONAL ENGINEER

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16|60 19|04
CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

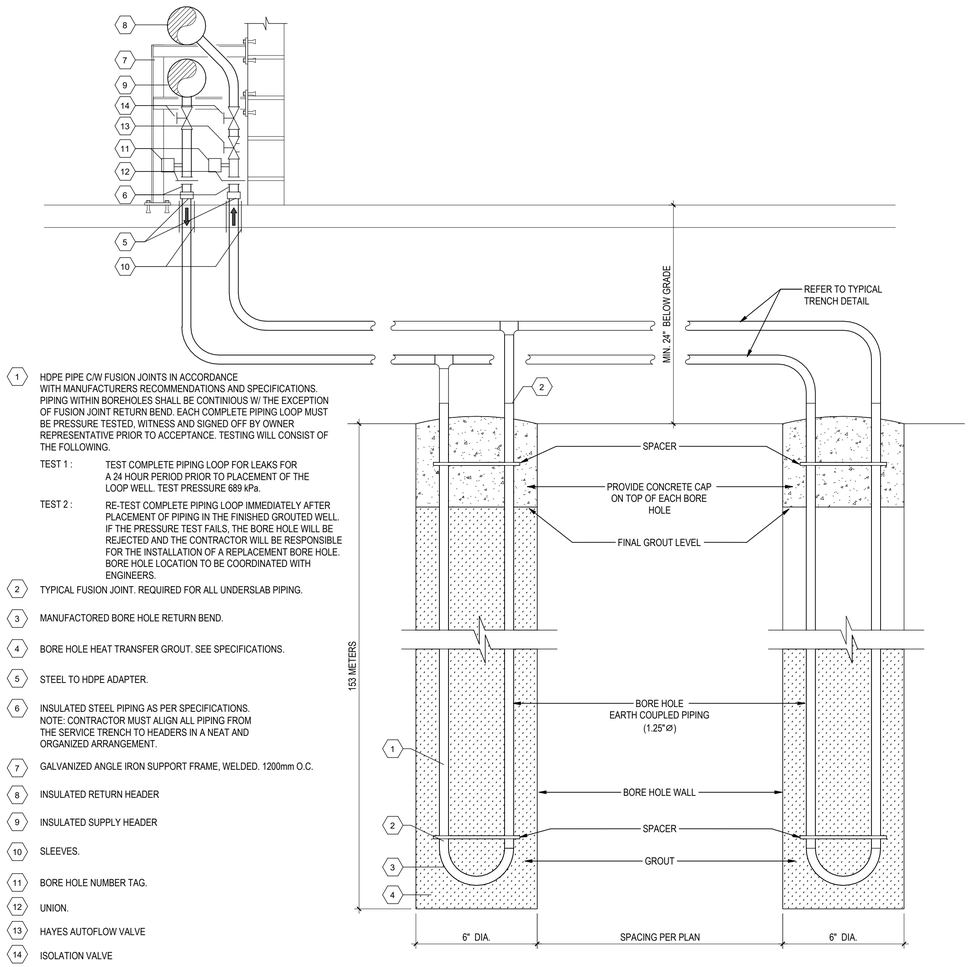
Title
MECHANICAL DETAILS

Project No.
192311093

Scale

Date
2024.07.23

Drawing No.
M-504



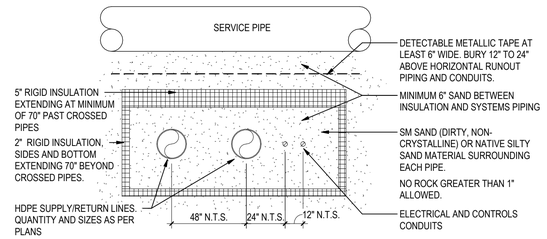
1. HDPE PIPE C/W FUSION JOINTS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS. PIPING WITHIN BOREHOLES SHALL BE CONTINIOUS W/ THE EXCEPTION OF FUSION JOINT RETURN BEND. EACH COMPLETE PIPING LOOP MUST BE PRESSURE TESTED, WITNESS AND SIGNED OFF BY OWNER REPRESENTATIVE PRIOR TO ACCEPTANCE. TESTING WILL CONSIST OF THE FOLLOWING.
   - TEST 1 : TEST COMPLETE PIPING LOOP FOR LEAKS FOR A 24 HOUR PERIOD PRIOR TO PLACEMENT OF THE LOOP WELL. TEST PRESSURE 689 kPa.
   - TEST 2 : RE-TEST COMPLETE PIPING LOOP IMMEDIATELY AFTER PLACEMENT OF PIPING IN THE FINISHED GROUTED WELL. IF THE PRESSURE TEST FAILS, THE BORE HOLE WILL BE REJECTED AND THE CONTRACTOR WILL BE RESPONSIBLE FOR THE INSTALLATION OF A REPLACEMENT BORE HOLE. BORE HOLE LOCATION TO BE COORDINATED WITH ENGINEERS.
2. TYPICAL FUSION JOINT. REQUIRED FOR ALL UNDERSLAB PIPING.
3. MANUFACTORED BORE HOLE RETURN BEND.
4. BORE HOLE HEAT TRANSFER GROUT. SEE SPECIFICATIONS.
5. STEEL TO HDPE ADAPTER.
6. INSULATED STEEL PIPING AS PER SPECIFICATIONS. NOTE: CONTRACTOR MUST ALIGN ALL PIPING FROM THE SERVICE TRENCH TO HEADERS IN A NEAT AND ORGANIZED ARRANGEMENT.
7. GALVANIZED ANGLE IRON SUPPORT FRAME, WELDED. 1200mm O.C.
8. INSULATED RETURN HEADER
9. INSULATED SUPPLY HEADER
10. SLEEVES.
11. BORE HOLE NUMBER TAG.
12. UNION.
13. HAYES AUTOFLOW VALVE
14. ISOLATION VALVE

NOTE:
1. CONTRACTOR RESPONSIBLE FOR ALL REQUIRED PERMITS FROM THE AUTHORITY HAVING JURISDICTION.

1 GEOTHERMAL BOREHOLE DETAIL

1 / M-505

N.T.S.



2 GEOTHERMAL TRENCH CROSSOVER DETAIL

2 / M-505

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WATER TO WATER HEAT PUMP SCHEDULE

UNIT IDENTIFICATION		CONDENSER WATERSIDE						EVAPORATOR WATERSIDE							REFRIG TYPE	UNIT EFFICIENCY (COP)	PHYSICAL SIZE				ELECTRICAL					OPERATING WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER	NOTES
TAG	LOCATION	FLUID TYPE	MINIMUM FLOW (GPM)	MAX FLOW (GPM)	EWT (F)	LWT (F)	MAX WPD (FT)	CAPACITY (MBH)	FLUID TYPE	MINIMUM FLOW (GPM)	MAX FLOW (GPM)	EWT (F)	LWT (F)	MAX WPD (FT)			LENGTH (IN)	HEIGHT (IN)	DEPTH (IN)	WEIGHT (LBS)	VOLTAGE	PHASE	FLA	MCA	MOP				
WTWHP-1	221-UTILITY ROOM	20% PG	36	48	35	25	10	139	20% PG	48	48	94	104	10	R-410A	2.7	34	26	24	420	208	3	52.0	58.5	80	-	WATERFURNACE	NDW180	-
WTWHP-2	221-UTILITY ROOM	20% PG	36	48	35	25	10	139	20% PG	48	48	94	104	10	R-410A	2.7	34	26	24	420	208	3	52.0	58.3	80	-	WATERFURNACE	NDW180	-
WTWHP-3	221-UTILITY ROOM	20% PG	4	7	35	25	10	33	WATER	7	7	120	131	10	R-410A	3.8	24	26	20	225	208	1	52.0	32.2	50	-	WATERFURNACE	NWS025	-
WTWHP-4	221-UTILITY ROOM	20% PG	4	7	35	25	10	33	WATER	7	7	120	131	10	R-410A	3.8	24	26	20	225	208	1	52.0	32.2	50	-	WATERFURNACE	NWS025	-

3

ENERGY RECOVERY VENTILATOR SCHEDULE

UNIT IDENTIFICA...	AIRFLOW	SUPPLY FAN				EXHAUST FAN				OPERATING TEMPERATURES								PHYSICAL CHARACTERISTICS				ELECTRICAL				MANUFACTURER	MODEL NUMBER	NOTES
										WINTER				SUMMER														
TAG	DESIGN FLOW RATE (CFM)	AIRFLOW (CFM)	ESP (IN-WG)	BHP	HP	AIRFLOW (CFM)	ESP (IN-WG)	BHP	HP	ENTERING OUTDOOR AIR DB (F)	ENTERING EXHAUST AIR DB (F)	LEAVING FRESH AIR DB (F)	TOTAL EFFECTIVENESS (%)	ENTERING OUTDOOR AIR DB (F)	ENTERING EXHAUST AIR DB (F)	LEAVING FRESH AIR DB (F)	TOTAL EFFECTIVENESS (%)	WEIGHT (LBS)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	VOLTS	PHASE	MCA	MOP			
ERV-1	1,250	1,500	1	1.22	2	1,500	1	1.22	2	9.0	70.0	51.6	67.4	89.9	75.0	79.2	51.0	583	46"	35"	53"	208	3	16	20	RENEWAIRE	HE-2X	1, 2, 3, 4, 5, 6

NOTES:
1. PROVIDE INTEGRATED PROGRAMABLE CONTROLS..
2. MOTORIZED DAMPERS ON BOTH AIRSTREAMS
3. OBBOARD VFD BOTH AIRSTREAMS AND SHAFT GROUNDING RINGS.
4. BACNET FACTORY ACTIVATION.
5. MERV13 FILTERS.
6. FUSED DISCONNECT.

WATER COOLED VRF CONDENSING UNIT SCHEDULE

UNIT IDENTIFICATION		WATERSIDE							REFRIG TYPE	UNIT EFFICIENCY		ELECTRICAL				PHYSICAL SIZE				MANUFACTURER	MODEL NUMBER	NOTES
TAG	LOCATION	FLUID TYPE	MINIMUM FLOW (GPM)	MAX FLOW (GPM)	WINTER		SUMMER		MAX WPD (FT)			(COP)	(IEER)	VOLTAGE	PHASE	MCA	MOP	LENGTH (IN)	WIDTH (IN)	DEPTH (IN)	WEIGHT (LBS)			
					EWT (F)	LWT (F)	EWT (F)	LWT (F)																
WCVRF-1	221-UTILITY ROOM	20% PG	13	40	35	25	85	95	10	R-410A	5.0	23.7	208	3	22	40	31	22	40	330	DAIKIN	RWEYA144PTJU	-
WCVRF-2	221-UTILITY ROOM	20% PG	13	40	35	25	85	95	10	R-410A	5.0	23.7	208	3	22	40	31	22	40	330	DAIKIN	RWEYA144PTJU	-

NOTES:
-

FAN COIL UNIT SCHEDULE

UNIT IDENTIFICATION		TYPE	AIRFLOW			HEATING		COOLING		PHYSICAL CHARACTERISTICS				ELECTRICAL				MANUFACTURER	MODEL NUMBER	NOTES
TAG	SERVES		PRIMARY AIRFLOW (CFM)	TOTAL AIRFLOW (CFM)	ESP (IN-WG)	CAPACITY (BTUH)	DISCHARGE TEMP (F)	CAPACITY (BTUH)	DISCHARGE TEMP (F)	WEIGHT (LBS)	HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	VOLTS	PHASE	MCA	MOP			
FCU-1	102-LOBBY	DUCTED	20	280	0.6	6,500	90	5,800	55	55	10	22	32	208	1.0	0.8	15	DAIKIN	FXSQ05TBVJU	-
FCU-2	105-ELECTRICAL SERVICES	NON-DUCTED	-	600	0.6	20,000	90	18,000	55	77	10	40	39	208	1.0	1.6	15	DAIKIN	FXSQ18TBVJU	-
FCU-3	207-CONFERENCE ROOM	DUCTED	70	315	0.6	10,500	90	9,500	55	55	10	22	32	208	1.0	0.8	15	DAIKIN	FXSQ09TBVJU	-
FCU-4	205/211/23-OFFICES AND KITCHENETTE	DUCTED	100	600	0.6	20,000	90	18,000	55	77	10	40	39	208	1.0	1.6	15	DAIKIN	FXSQ18TBVJU	-
FCU-5	219/220/221-TOILET ROOMS AND LOCKER ROOM	DUCTED	-	530	0.6	17,000	90	15,000	55	60	10	28	32	208	1.0	1.4	15	DAIKIN	FXSQ15TBVJU	-
FCU-6	218-SHELL SPACE	DUCTED	120	1,300	0.6	54,000	90	48,000	55	104	10	55	32	208	1.0	2.8	15	DAIKIN	FXSQ48TBVJU	-
FCU-7	201-VESTIBULE-151	DUCTED	25	280	0.6	6,500	90	5,800	55	55	10	22	32	208	1.0	0.8	15	DAIKIN	FXSQ05TBVJU	-
FCU-8	216-CORRIDOR	DUCTED	50	335	0.6	13,500	90	12,000	55	55	10	22	32	208	1.0	0.8	15	DAIKIN	FXSQ12TBVJU	-
FCU-9	206-OPEN OFFICE	DUCTED	80	600	0.6	20,000	90	18,000	55	77	10	40	39	208	1.0	1.6	15	DAIKIN	FXSQ18TBVJU	-
FCU-10	213-OPEN OFFICE	DUCTED	140	1,300	0.6	54,000	90	48,000	55	104	10	55	32	208	1.0	2.8	15	DAIKIN	FXSQ48TBVJU	-
FCU-11	217-MULTIPURPOSE MEETING ROOM	DUCTED	305	1,300	0.6	54,000	90	48,000	55	104	10	55	32	208	1.0	2.8	15	DAIKIN	FXSQ48TBVJU	-
FCU-12	208/209/210-OFFICES	DUCTED	75	600	0.6	20,000	90	18,000	55	77	10	40	39	208	1.0	1.6	15	DAIKIN	FXSQ18TBVJU	-
FCU-13	223-IT	DUCTED	-	600	0.6	-	90	18,000	55	115	45	18	22	208	1.0	4.9	15	DAIKIN	FXTQ18TAVJUD	-

-

HVAC EXPANSION TANK SCHEDULE

UNIT IDENTIFICATION		TANK						SYSTEM						MANUFACTURER	MODEL NUMBER	NOTES
										OPERATING...		OPERATING PRESSURE				
TAG	SYSTEM SERVED	TYPE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	DIAMETER (IN)	HEIGHT (IN)	WEIGHT (LBS)	ESTIMATED SYSTEM VOLUME (GAL)	FLUID TYPE	MIN TEMP (F)	MAX TEMP (F)	MIN PRESS (PSIG)	MAX PRESS (PSIG)			
ET-1	GEOTHERMAL	DIAPHRAGM												BELL & GOSSETT		-
ET-2	RADIANT	DIAPHRAGM												BELL & GOSSETT		-

NOTES:

ELECTRIC HEATER SCHEDULE

UNIT IDENTIFICATION		TYPE	ELECTRIC		ELECTRICAL			PHYSICAL DATA			MANUFACTURER	MODEL NUMBER	NOTES
TAG	ROOM SERVED		KW	NO OF STAGES	VOLTS	PHASE	FLA	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)			
ECUH-1	106-VESTIBULE	CEILING	3	1	208	3	8.3	24	9.0	24	MARKEL	3480	1, 3
ECUH-2	ST-2-STAIRS	WALL	3	1	208	1	9.5	24	9.0	24	MARKEL	6300	1, 3
ECUH-3	ST-1-STAIRS	WALL	3	1	208	1	9.5	33	9.0	25	MARKEL	6300	1, 3
ECUH-4	101-VESTIBULE	CEILING	3	1	208	3	8.3	24	9.0	24	MARKEL	3480	1, 3
EUH-1	104-WATER SERVICES	HORIZONTAL	3	1	208	3	9.17	18	15	7	MARKEL	5100	1, 2, 3
EUH-2	107-OUTER WEAR	HORIZONTAL	3	1	208	1	9.5	18	15	7	MARKEL	5100	1, 2, 3
EUH-3	221-UTILITY ROOM	HORIZONTAL	3	1	208	3	9.17	15	7	18	MARKEL	5100	1, 2, 3

NOTES:
1. INTEGRAL THERMOSTAT.
2. PROVIDE VERTICAL MOUNTING BRACKET
3. PROVIDE POWER DISCONNECT SWITCH.

AIR AND DIRT SEPARATOR SCHEDULE

UNIT IDENTIFICATION		TYPE	CONNECTION SIZE (IN)	DIAMETER (IN)	HEIGHT (IN)	WEIGHT (LBS)	MAXIMUM FLOW (GPM)	MANUFACTURER	MODEL NUMBER	NOTES
TAG	SYSTEM SERVED									
AS-1	GEOTHERMAL	CENTRIFUGAL						BELL & GOSSETT		-
AS-1	RADIANT	CENTRIFUGAL						BELL & GOSSETT		-

NOTES:
-

DRAW-THROUGH DRAIN TRAP DIMENSIONS

DRAIN PAN PRESSURE	TRAP DIMENSIONS	
NEGATIVE STATIC (INCHES OF WATER)	X (INCH)	X/2 (INCH)
-0.50	1.50	0.75
-1.00	2.00	1.00
-1.50	2.50	1.25
-2.00	3.00	1.50
-2.50	3.50	1.75
-3.00	4.00	2.00
-3.50	4.50	2.25
-4.00	5.00	2.50
-4.50	5.50	2.75
-5.00	6.00	3.00
-5.50	6.50	3.25
-6.00	7.00	3.50
-6.50	7.50	3.75
-7.00	8.00	4.00
-7.50	8.50	4.25
-8.00	9.00	4.50

CHEMICAL FEEDER SCHEDULE

UNIT IDENTIFICATION		CAPACITY	MAX PRESSURE	MANUFACTURER	MODEL NUMBER
TAG	SYSTEM	(GAL)	(PSI)		
CF-1	GEOTHERMAL	2	300.0	NEPTUNE	DBF-2HP
CF-2	RADIANT	2	300.0	NEPTUNE	DBF-2HP

AIR DEVICES SCHEDULE

TAG	APPLICATION	MATERIAL	FINISH	SIZE	MAX NOISE (NC)	MAX VELOCITY (FPM)	MANUFACTURER	MODEL NUMBER	NOTES
SD-1	SUPPLY	ALUMINUM	WHITE	24X24	25	700	PRICE INDUSTRIES	SDC	2
SG-1	SUPPLY	ALUMINUM	WHITE	-	25	700	PRICE INDUSTRIES	80	3
SG-2	SUPPLY	ALUMINUM	WHITE	-	25	700	PRICE INDUSTRIES	80	1
RD-1	RETURN	ALUMINUM	WHITE	24X24	25	500	PRICE INDUSTRIES	PFRF	2
RD-2	RETURN	ALUMINUM	WHITE	12X12	25	500	PRICE INDUSTRIES	PFRF	2
RG-1	RETURN	ALUMINUM	WHITE	-	25	700	PRICE INDUSTRIES	80	3
ED-1	EXHAUST	ALUMINUM	WHITE	24X24	25	500	PRICE INDUSTRIES	PFRF	2
ED-2	EXHAUST	ALUMINUM	WHITE	12X12	25	500	PRICE INDUSTRIES	PFRF	2

NOTES:
1. FRAME: EXPOSED DUCT MOUNTED
2. FRAME: T-BAR LAY-IN
3. SURFACE MOUNTED

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Project No.
192311093

Scale

Date
2024.07.23

Drawing No.
M-600

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PIPING SYSTEM APPLICATION SCHEDULE

SYSTEM	ABBREVIATION	LOCATION	PIPE SIZES	PIPE TYPES				JOINTS						FITTINGS					CONSTRUCTION					INSULATION TYPE					
																								TYPE			COVER		
				DWV COPPER	DRAWN COPPER TUBE TYPE L	SEAMLESS COPPER TUBE TYPE ACR	BLACK STEEL SCH 40	ROLL GROOVED	THREAD & COUPLE	BUTT WELD	BRAZED	SOLDERED	PRESSURE SEAL JOINTS	BLACK STEEL SCH 40	MALLEABLE IRON	GROOVED	WROUGHT COPPER	PRESSURE SEAL JOINT FITTINGS	OPERATING TEMPERATURE (°F)	MINIMUM WORKING PRESSURE (PSI)	TEST PRESSURE (PSI)	TEST DURATION (HRS)	ACCEPTANCE LEVEL	GLASS FIBER	CELLULAR FOAM	PREFORMED	A&J	PVC	ALUMINUM
CONDENSATE	CON	INTERIOR	1/2" TO 2"	X					X			X	X				X	X	N/A	N/A	N/A	N/A	N/A			X			
GEOTHERMAL	GWS/R	INTERIOR	1/2" TO 2"		X								X					X	95	50	150	12	ZERO LOSS OR LEAKS	X		X	X	1	
		INTERIOR	2-1/2" AND LARGER				X				X			X					95	50	150	12		X		X	X	1	
		EXTERIOR	2-1/2" AND LARGER																										
		BELOW-GRADE	2-1/2" AND LARGER																										
RADIANT HOT WATER	RWS/R	INTERIOR	1/2" TO 2"		X								X					X	105	50	150	12	ZERO LOSS OR LEAKS	X		X	X	1	
		INTERIOR	2-1/2" AND LARGER				X				X			X					105	50	150	12		X		X	X	1	

NOTES:
1. PIPING TO HAVE PVC JACKETING WHERE EXPOSED IN NON-MECHANICAL SPACES.
2. PRESSURE TESTING BY X HOLDS FOR 24 HOURS.

FANS SCHEDULE

UNIT IDENTIFICATION			SYSTEM				MOTOR			ELECTRICAL						
TAG	SERVES	LOCATION	AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	ESP (IN-WG)	CONTROL	HP	FAN SPEED (RPM)	DRIVE TYPE	VOLTS	PHASE	FLA	OPERATING WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER	NOTES
GSF-1	GARAGE VENTILATION	VESTIBULE	6,000	1,800	0.50	VARIABLE	3	1,848	DIRECT	208	3	10.7	125	GREENHECK	SQ-16-M2-VG	2, 3
GEF-1	GARAGE VENTILATION	WATER ROOM	6,000	1,800	0.50	VARIABLE	3	1,848	DIRECT	208	3	10.7	125	GREENHECK	SQ-16-M2-VG	2, 3
EF-1	MECHANICAL ROOM	ROOF	750	300	0.50	VARIABLE	1/6	1,623	DIRECT	115	1	2.8	29	GREENHECK	G-095-VG	1, 2, 3

NOTES:
1. MANUFACTURER TO PROVIDE 18" ROOF CURB.
2. PROVIDE WITH MOTORIZED ISOLATION DAMPERS.
3. PROVIDE WITH VARI-GREEN MOTOR AND HOA CONTROLLER.

HYDRONIC PUMPS SCHEDULE

UNIT IDENTIFICATION			FLOW	TOTAL HEAD	FLUID	MINIMUM EFFICIENCY	BHP	MHP	ELECTRICAL			MANUFACTURER	MODEL	NOTES
TAG	LOCATION	SYSTEM	(GPM)	(FT)		(%)			VOLTS	PHASE	HZ			
GWP-1	221-UTILITY ROOM	GEOTHERMAL	160	90	20% PG	80	4.75	5	208	3	60	BELL & GOSSETT	E90-2AAC	-
GWP-2	221-UTILITY ROOM	GEOTHERMAL	160	90	20% PG	80	4.75	5	208	3	60	BELL & GOSSETT	E90-2AAC	-
RFP-1	221-UTILITY ROOM	RADIANT HEAT	40	40	20% PG	60	-	2	208	3	60	BELL & GOSSETT	E90E-1.25AAB	1
RFP-2	221-UTILITY ROOM	RADIANT HEAT	40	40	20% PG	60	-	2	208	3	60	BELL & GOSSETT	E90E-1.25AAB	1

NOTES:
1. PUMP TO BE ECM PUMP WITH INTEGRAL VARIABLE SPEED CONTROL

RADIANT FLOOR SCHEDULE

UNIT IDENTIFICATION		ZONE HEATING				PIPING	HOT WATER					MANUFACTURER	NOTES
TAG	SPACE	ZONE AREA	CAPACITY	HEATING DENSITY	SPACE TEMPERATURE	CIRCUITS	EWT	LWT	PRESSURE DROP	FLOW	MANIFOLD		
		(SF)	(MBH)	(BTU/SF)	(°F)	-	(°F)	(°F)	(FT)	(GPM)	-		
RF-1	103-GARAGE	1,775	88,750	50	65	8	104	94	8	8	RM-1	UPONOR	-
RF-2	103-GARAGE	1,775	88,750	50	65	8	104	94	8	8	RM-2	UPONOR	-
RF-3	103-GARAGE	1,775	88,750	50	65	8	104	94	8	8	RM-3	UPONOR	-
RF-4	103-GARAGE	1,775	88,750	50	65	8	104	94	8	8	RM-4	UPONOR	1, 2, 6

-

RADIANT FLOOR MANIFOLD SCHEDULE

UNIT IDENTIFICATION		MANIFOLD INFORMATION											
TAG	SPACE	ROOM SERVED	AREA (SQ. FT.)	QTY. CIRCUITS	TUBING SIZE	AVG. LENGTH (FT.)	SUPPLY TEMP (F°)	TOTAL FLOW (GPM)	PRESSURE DROP (FT)	FLUID TYPE	TOTAL LOAD (BTU/HR)	MANUFACTURER	NOTES
RFM-1	WATER ROOM	GARAGE RF 1.1	1706	8	5/8"	327.0	105	7.73	7.2	20% PG	77,110	UPONOR	1, 2
RFM-2	WATER ROOM	GARAGE RF 1.2	1701	8	5/8"	326.0	105	7.71	7.2	20% PG	76,890	UPONOR	1, 2
RFM-3	WATER ROOM	GARAGE RF 2.1	1721	8	5/8"	330.0	105	7.79	7.3	20% PG	77,000	UPONOR	1, 2
RFM-4	WATER ROOM	GARAGE RF 2.2	1721	8	5/8"	330.0	105	7.79	7.3	20% PG	76,998	UPONOR	1, 2

NOTES:
1. MANIFOLD TYPE: STAINLESS-STEEL, 1 1/4" WITH FLOW METER, B&I, BALL VALVE
2. FLOOR TYPE: EMBEDDED SLAB

DUCT HEATER SCHEDULE

UNIT IDENTIFICATION		TYPE	AIRSIDE				ELECTRIC		ELECTRICAL			MANUFACTURER	MODEL NUMBER	NOTES
TAG	ROOM SERVED		DUCT SIZE (IN)	AIRFLOW (CFM)	EAT (°F)	LAT (°F)	KW	NO OF STAGES	VOLTS	PHASE	FLA			
DH-1	GARAGE SUPPLY	DUCT MOUNTED	24X24	1800	9	40	18	1	208	3	50	GREENHECK	IDHB	-

NOTES:
-...

GLYCOL FEED SYSTEM SCHEDULE

UNIT IDENTIFICATION		TANK VOLUME (GAL)	MAXIMUM WORKING PRESSURE (PSI)	COLD FILL PRESSURE (PSI)	DIMENSIONS			WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	NOTES
MARK	SYSTEM SERVED				HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)				
GFS-1	GEOTHERMAL	53	150	4-90	51	24	26	145	ARMSTRONG	GLA-U-HP-2	-

NOTES:
-

LOUVER SCHEDULE

UNIT IDENTIFICATION			SYSTEM				MODEL NUMBER	NOTES
TAG	LOCATION	SYSTEM	AIRFLOW (CFM)	FREE AREA (SQ FT)	WIDTH (IN)	HEIGHT (IN)		
L-1	102-LOBBY	OUTDOOR AIR	6,700	15.04	96	48	ECD-401	1, 2 ,3, 4
L-2	104-WATER SERVICES	EXHAUST	6,700	7.20	60	36	ECD-401	1, 2 ,3, 4
L-3	221-UTILITY ROOM	OUTDOOR AIR	690	3.92	60	20	EDD-401	1, 2 ,3

NOTES:
1. BASIS OF DESIGN: GREENHECK
2. PROVIDE INTEGRAL BIRD SCREEN OPTION.
3. PROVIDE KYNAR PAINT FINISH OPTION. COORDINATE FINISH COLOR WITH ARCHITECT.
4. COMBINATION LOUVER/DAMPER.

PIPE INSULATION THICKNESS SCHEDULE

FLUID DESIGN OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE SIZE (IN)					NOTES
	CONDUCTIVITY RANGE [BTU·IN/(HR·FT2·°F)]	MEAN TEMPERATURE RATING (°F)	< 1	1 TO < 1-1/2	1-1/2 TO < 4	4 TO < 8	8+	
> 350	0.32 - 0.34	250	4.5	5	5	5	5	1
251 - 350	0.29 - 0.32	200	3	4	4.5	4.5	4.5	1
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3	3	1
141 - 200	0.25 - 0.29	125	1.5	1.5	2	2	2	1
105 - 140	0.21 - 0.28	100	1	1	1.5	1.5	1.5	1
40 - 60	0.21 - 0.27	75	0.5	0.5	1	1	1	1
< 40	0.20 - 0.26	50	0.5	1	1	1	1.5	1

NOTES:
1. COMPLY WITH NYS ENERGY CONSERVATION CODE REQUIREMENTS FOR PIPE INSULATION THICKNESS.

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Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	MH	TAH	JR	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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087107
LICENSED PROFESSIONAL ENGINEER

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CITY OF RYE NY 1942

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DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
MECHANICAL SCHEDULES

Project No.
192311093

Scale

Date
2024.07.23

Drawing No.
M-601

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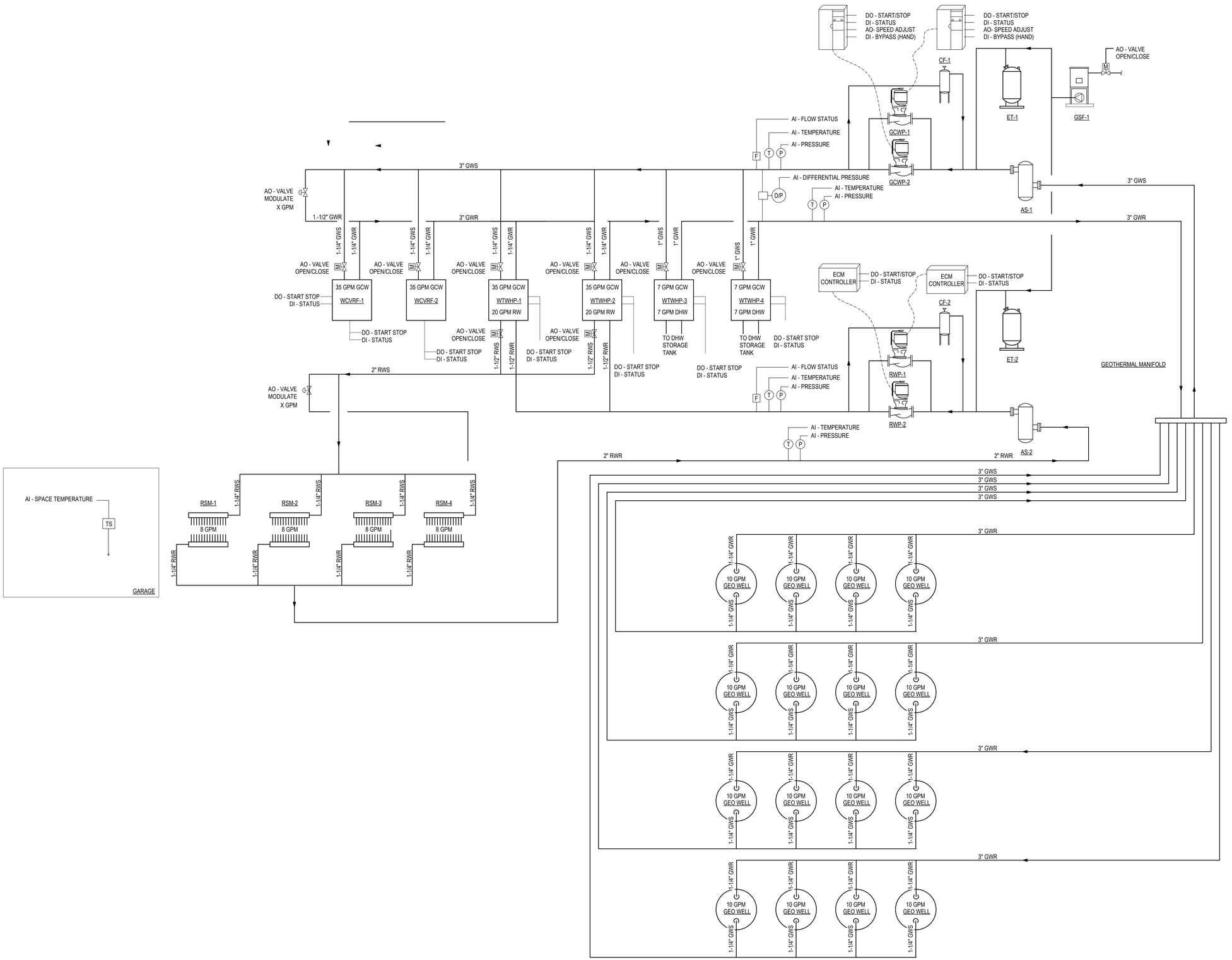

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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Title
PIPING SCHEMATICS

Project No.
192311093

Scale

Date
2024.07.23

Drawing No.
M-700

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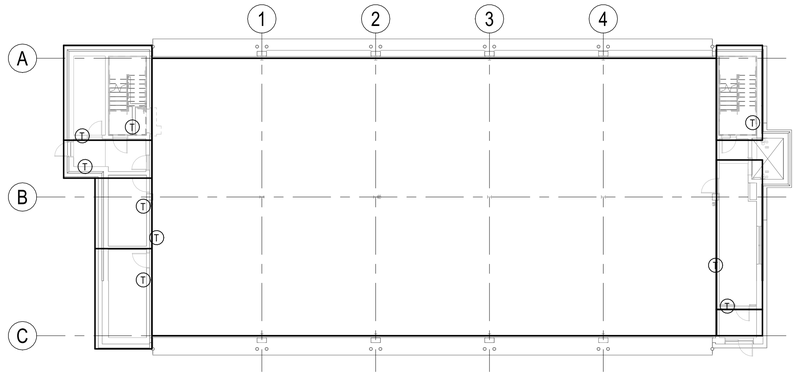
CONTROLS GENERAL NOTES

1. THE DESIGN INTENT IS FOR THE NEW CONTROL DEVICES, SYSTEM, AND ALL NEW CONTROLLER TO BE BACNET COMPLIANT. REFER TO THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. THE CONTROL SYSTEM ARCHITECTURE SHOWN IS DIAGRAMMATIC. IT IS NOT INTENDED TO DICTATE THE ACTUAL ARCHITECTURE OF THE SYSTEMS, NOR DOES IT SHOW ALL ITEMS REQUIRED. ITS SOLE PURPOSE IS TO PROVIDE A STARTING POINT FOR THE HVAC CONTROLS SUPPLIER WHEN DEVELOPING SUBMITTAL DIAGRAMS FOR THE PROJECT. .
3. SYSTEM ARCHITECTURE SHALL INCLUDE VARIABLE FREQUENCY DRIVES WHERE PRESENT. PROVIDE SERIAL INTERFACE TO ALL VFD'S. COORDINATE WITH VFD SUPPLIER.
4. SYSTEM ARCHITECTURE SHALL BE DESIGNED TO ACCOMMODATE FUTURE SPARE POINTS AS SPECIFIED.
5. PROVIDE ACTIVE HUBS AND SWITCHES AS REQUIRED FOR A FUNCTIONAL NETWORK.
6. ALL ACTUATORS SHALL BE ELECTRIC ACTUATORS UNLESS NOTED OTHERWISE.
7. LEAVING AIR TEMPERATURE SENSORS SHALL BE LOCATED FAR ENOUGH DOWN STREAM OF THE COIL TO PROVIDE AN ACCURATE VALUE OF THE AIR TEMPERATURE FOR NON AVERAGING TYPE SENSORS.
8. THE CONTROLS CONTRACTOR IS RESPONSIBLE FOR POWERING ALL CONTROL PANELS AND SENSORS / END DEVICES. REFER TO THE ELECTRICAL DRAWINGS FOR THE DESIGNATED ELECTRICAL CIRCUITS THAT SHOULD BE USED BY THE CONTROLS CONTRACTOR. THE CONTROLS CONTRACTOR WILL BE RESPONSIBLE FOR ALL STEP DOWN TRANSFORMERS AND THE 120V WIRING AS REQUIRED. ALL POWER SHALL COME FROM STANDBY CIRCUITS.
9. ALL CONTROL POINTS REQUIRED FOR THE SEQUENCES TO BE EXECUTED SHALL BE HARD WIRED TO THE CORRESPONDING CONTROLLER SO THAT THE SEQUENCES CAN STILL OPERATE WITH THE BUILDING CONTROLS LAN NOT WORKING.
10. ALL SAFETIES SHALL BE HARD WIRED AS SHOWN ON THE CONTROLS DIAGRAM.
11. THE CONTROLS CONTRACTOR SHALL SEND AN RFI TO THE OWNER DURING START-UP FOR THE OWNER TO VERIFY OR PROVIDE UPDATED SETPOINTS FOR THE SCHEDULES.
12. ALL CONTROL SEQUENCES SHALL UTILIZE DEAD BANDS TO ALLOW FOR STABLE CONTROL.

ALL AIR FLOW STATIONS SHALL BE LOCATED PER MANUFACTUER'S REQUIREMENTS AND IN A MANNER TO ALLOW FOR ACCURATE MEASUREMENTS.

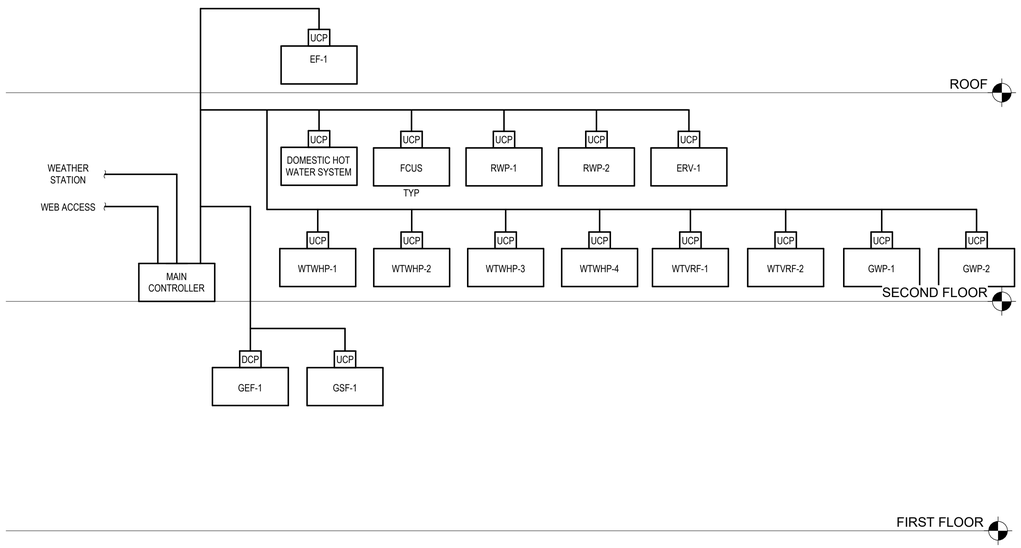
CONTROLS LEGEND

DI	DIGITAL INPUT	NIP	NETWORK INTERFACE PANEL
DO	DIGITAL OUTPUT		
AI	ANALOG INPUT	UCP	UNITARY CONTROL PANEL
AO	ANALOG OUTPUT		
		DCP	DIGITAL CONTROL PANEL WHICH IS A PROGRAMMABLE LOGIC CONTROLLER



2 M-800 FIRST FLOOR CONTROL PLAN

1/16" = 1'-0"



1 M-800 CONTROLS ARCHITECTURE

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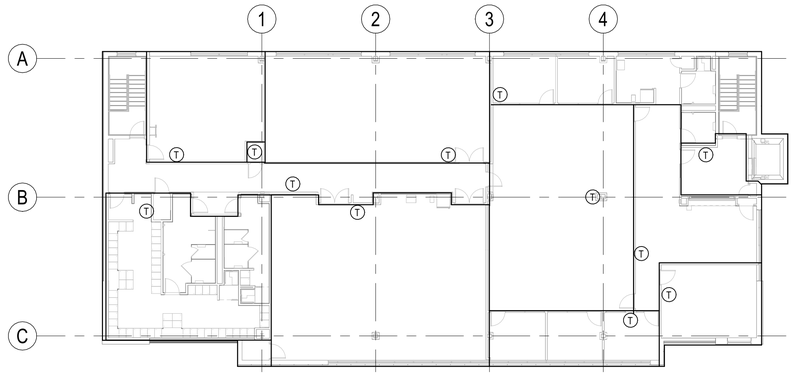

3 M-800 SECOND FLOOR CONTROL PLAN

1/16" = 1'-0"

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DPW ADMIN BUILDING

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RYE, NY 10580

Title
MECHANICAL ARCHITECTURE, CONTROL ZONES AND NOTES

Project No.	Scale
192311093	
Date	Drawing No.
2024.07.23	M-800

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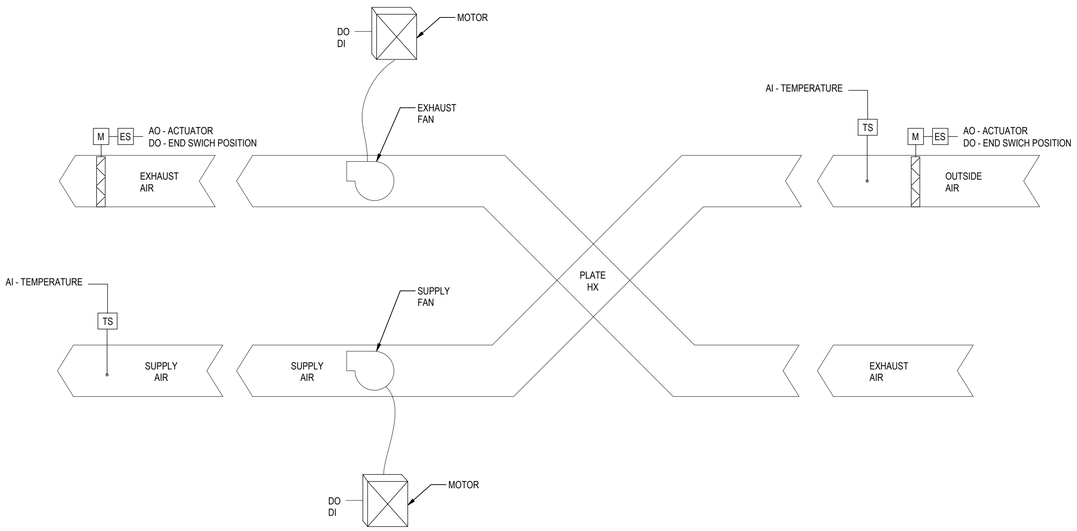


SCHEDULING
UNIT SHALL BE ENABLED WHENEVER THE BUILDING IS OCCUPIED. UNIT SHALL BE DISABLED DURING OFF HOURS AND WHEN THE BUILDING IS NOT OCCUPIED.

TEMPERATURE MONITORING
TEMPERATURE SENSOR LOCATED WITHIN THE SUPPLY DUCT AND OUTSIDE AIR DUCT SHALL MONITOR AND TREND TEMPERATURE. SENSOR SHALL BE PLACED WITHIN A DUCT WITH THE MANUFACTURER RECOMMENDED LENGTH OF STRAIGHT DUCT BEFORE THE SENSOR TO PROVIDE ACCURATE MEASUREMENTS.

ISOLATION DAMPERS
UPON THE UNIT BEING COMMANDED ON, THE ISOLATION DAMPERS SHALL OPEN AND PROVIDE INDICATION VIA END SWITCH. UPON THE INDICATION OF DAMPERS BEING OPEN, THE FANS SHALL START.

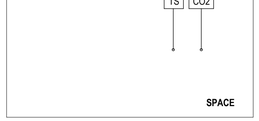
EMERGENCY SHUTDOWN
THE UNIT SHALL SHUT DOWN IMMEDIATELY AND GENERATE AN ALARM UPON A SIGNAL PROVIDED BY THE FIRE ALARM SYSTEM.

ALARMS

HIGH SUPPLY AIR TEMPERATURE
LOW SUPPLY AIR TEMPERATURE
SUPPLY MOTOR FAILURE
EXHAUST MOTOR FAILURE

1 M-801 ERV SCHEMATIC

N.T.S.



SPACE TEMPERATURE
OCCUPIED SETPOINTS: 70ºF HEATING, 75ºF COOLING, TOLLERANGE +/-2°F
UNOCCUPIED SETPOINTS: 65ºF HEATING, 80ºF COOLING, TOLLERANGE +/-2°F

FAN COIL UNIT OPERATION
OCCUPANCY MODE SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSORS AND BUILDING SCHEDULES.

OCCUPIED: UNIT SHALL RUN CONTINOUSLY..

UNOCCUPIED: UNIT SHALL RUN CYCLE UPON LOAD.

THE BAS SHALL MONITOR THE STATUS OF EACH FAN COIL UNIT.

ALARMS

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY 10°F (ADJ.) FOR 15 MINUTES (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY 10°F (ADJ.) FOR 15 MINUTES (ADJ.).

2 M-801 FAN COIL SCHEMATIC

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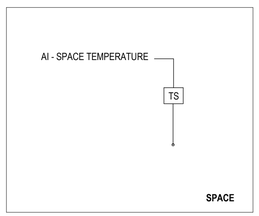

SPACE TEMPERATURE
SETPOINTS: 65ºF HEATING, 85ºF COOLING, TOLLERANGE +/-5°F

ALARMS

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY 10°F (ADJ.) FOR 15 MINUTES (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY 10°F (ADJ.) FOR 15 MINUTES (ADJ.).

3 M-801 SPACE MONITORING

N.T.S.

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ISSUE FOR BID	MG	-	2024.09.12

Issued	By	Appd	YYYY.MM.DD
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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Title
MECHANICAL CONTROLS SCHEMATICS

Project No.
192311093

Scale

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2024.07.23

Drawing No.
M-801

GEOTHERMAL SYSTEM
THE SYSTEM SHALL CYCLE ON/OFF TO MEET LOADS.

HEATING MODE SUPPLY WATER TEMPERATURE SETPOINT: 35°F
COOLING MODE SUPPLY WATER TEMPERATURE SETPOINT: 85°F

UPON EACH WATER COOLED VARIABLE REFRIGERANT CONDENSER AND WATER TO WATER HEAT PUMP BEING ENABLE, THE CORRESPONDING ISOLATION VALVE OPENED THE GEOTHERMAL WATER SIDE SHALL BE OPENED AND THE SYSTEM ENABLED. UPON THE SYSTEM BEING ENABLE, THE PUMP SHALL START AND FLOW SHALL BE MONITORED BY THE FLOW SWITCH. THE PUMP'S VARIABLE FREQUENCY DRIVE SHALL MODULATE SPEED BASED UPON THE DIFERENTIAL PRESSURE.

UPON A UNIT BEING DISABLED THE COORISPONDING ISOLATION VALVE SHALL CLOSE. UPON ALL UNITS BEING DISABLED, THE SYSTEM SHALL CYCLE OFF AND THE PUMP SHALL STOP.

THE PUMPS SHALL OPERATE IN A DUTY STANDBY FASHION. IF THE PRIMARY PUMP FAILS TO START AFTER 30 SECONDS (ADJ), A GENERAL ALARM WILL BE REPORTED TO THE BUILDING AUTOMATION SYSTEM AND THE STANDBY PUMP SHALL ENERGIZE AND BECOME THE PRIMARY PUMP. THE PRIMARY PUMP SHALL BE ALTERNATED BETWEEN THE TWO PUMPS EVERY 30 DAYS (ADJ) TO ACHIEVE EQUAL RUNTIME OF THE PUMPS.

RADIANT SLAB SYSTEM
THE SYSTEM SHALL BE ENABLED WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 65°F (ADJ).
THE SYSTEM SHALL CYCLE ON/OFF TO MAINTAIN A SPACE TEMPERATURE SETPOINT OF 65°F (ADJ).

SUPPLY WATER TEMPERATURE SETPOINT: 105°F (ADJ)

UPON A CALL FOR HEATING THE WATER TO WATER HEAT PUMPS SHALL BE ENABLED AND OPERATE IN A LEAD LAG FASHION TO MAINTAIN SPACE TEMPERATURE. UPON INITIAL CALL FOR HEATING, THE LEAD WATER TO WATER HEAT PUMP'S ISOLATION VALVE SHALL OPEN AND THE PUMP SHALL START. UPON INDICATION OF FLOW, THE LEAD WATER TO WATER HEAT PUMP SHALL BE ENABLE. IF THE SUPPLY WATER TEMPERATURE IS UNABLE TO BE MET AFTER 15 MINUTES, THE LAG WATER TO WATER HEAT PUMP SHALL BE ENABLED.

THE PUMPS SHALL OPERATE IN A DUTY STANDBY FASHION. IF THE PRIMARY PUMP FAILS TO START AFTER 30 SECONDS (ADJ), A GENERAL ALARM WILL BE REPORTED TO THE BUILDING AUTOMATION SYSTEM AND THE STANDBY PUMP SHALL ENERGIZE AND BECOME THE PRIMARY PUMP. THE PRIMARY PUMP SHALL BE ALTERNATED BETWEEN THE TWO PUMPS EVERY 30 DAYS (ADJ) TO ACHIEVE EQUAL RUNTIME OF THE PUMPS.

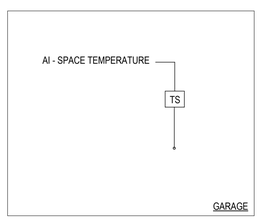
DOMESTIC HOT WATER WATER TO WATER HEAT PUMP
THE SYSTEM SHALL CYCLE ON/OFF TO MAINTAIN A DOMESTIC WATER TANK STORAGE TEMPERATURE SETPOINT OF 130°F (ADJ).

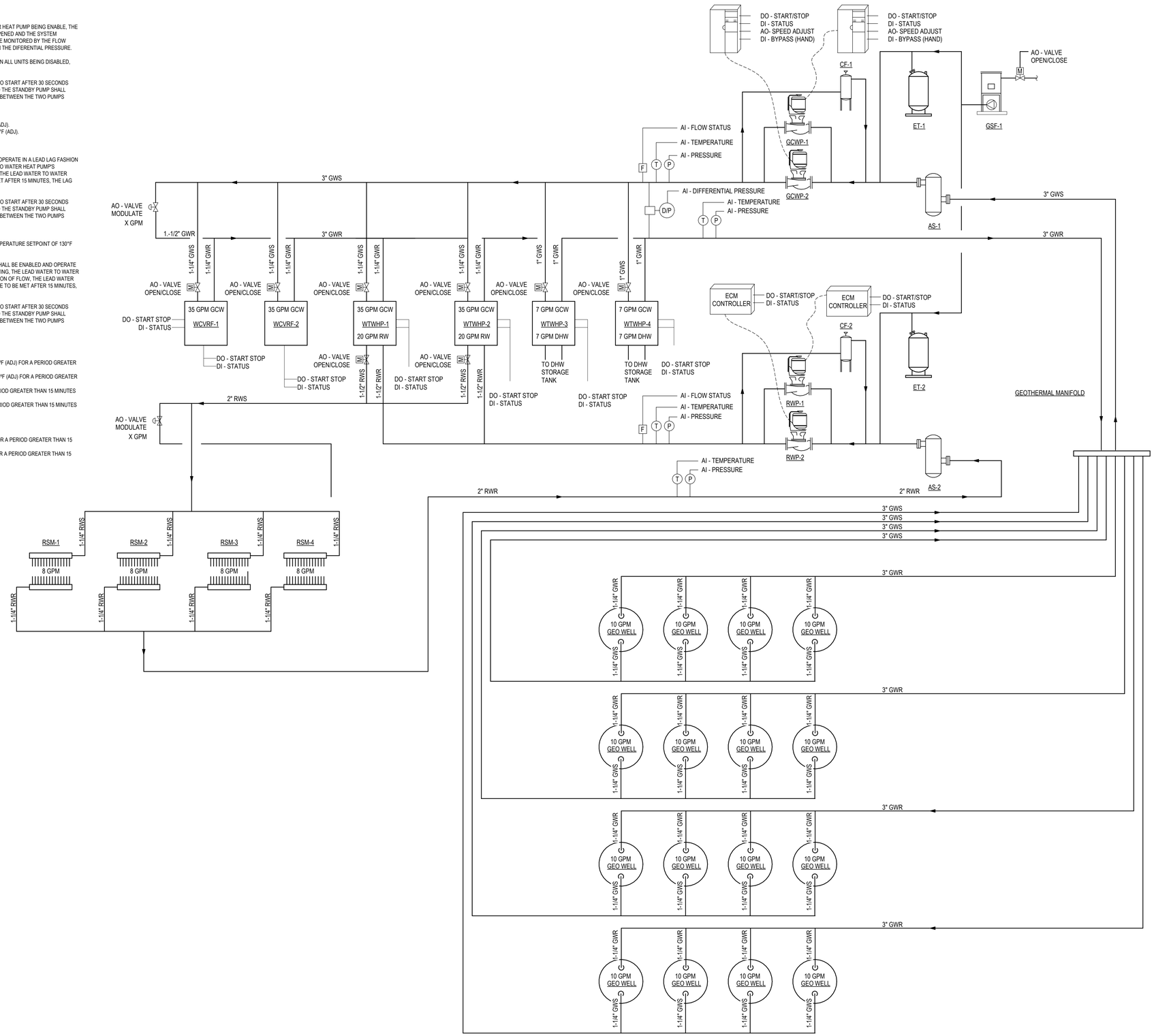
UPON A CALL FOR HEATING THE DOMESTIC WATER THE WATER TO WATER HEAT PUMPS SHALL BE ENABLED AND OPERATE IN A LEAD LAG FASHION TO MAINTAIN SPACE TEMPERATURE. UPON INITIAL CALL FOR HEATING, THE LEAD WATER TO WATER HEAT PUMP'S ISOLATION VALVE SHALL OPEN AND THE PUMP SHALL START. UPON INDICATION OF FLOW, THE LEAD WATER TO WATER HEAT PUMP SHALL BE ENABLE. IF THE SUPPLY WATER TEMPERATURE IS UNABLE TO BE MET AFTER 15 MINUTES, THE LAG WATER TO WATER HEAT PUMP SHALL BE ENABLED.

THE PUMPS SHALL OPERATE IN A DUTY STANDBY FASHION. IF THE PRIMARY PUMP FAILS TO START AFTER 30 SECONDS (ADJ), A GENERAL ALARM WILL BE REPORTED TO THE BUILDING AUTOMATION SYSTEM AND THE STANDBY PUMP SHALL ENERGIZE AND BECOME THE PRIMARY PUMP. THE PRIMARY PUMP SHALL BE ALTERNATED BETWEEN THE TWO PUMPS EVERY 30 DAYS (ADJ) TO ACHIEVE EQUAL RUNTIME OF THE PUMPS.

ALARMS
LOCAL ALARMS SHALL BE PROVIDED AS FOLLOWS:

- GEOTHERMAL CONDENSER WATER SUPPLY TEMP RISES ABOVE SETPOINT BY 5°F (ADJ) FOR A PERIOD GREATER THAN 15 MINUTES (ADJ).
- GEOTHERMAL CONDENSER WATER SUPPLY TEMP FALLS BELOW SETPOINT BY 5°F (ADJ) FOR A PERIOD GREATER THAN 15 MINUTES (ADJ).
- RADIANT WATER SUPPLY TEMP RISES ABOVE SETPOINT BY 5°F (ADJ) FOR A PERIOD GREATER THAN 15 MINUTES (ADJ).
- RADIANT WATER SUPPLY TEMP FALLS BELOW SETPOINT BY 5°F (ADJ) FOR A PERIOD GREATER THAN 15 MINUTES (ADJ).
- PUMP FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- PUMP IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- GEOTHERMAL
- RADIANT FLOOR SPACE HIGH TEMPERATURE ABOVE SETPOINT BY 5°F (ADJ) FOR A PERIOD GREATER THAN 15 MINUTES (ADJ)
- RADIANT FLOOR SPACE LOW TEMPERATURE ABOVE SETPOINT BY 5°F (ADJ) FOR A PERIOD GREATER THAN 15 MINUTES (ADJ)..
- WATER COOLED VARIABLE REFRIGERANT UNIT GENERAL ALARM.
- WATER TO WATER HEAT PUMP UNIT GENERAL ALARM.





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MECHANICAL CONTROLS SCHEMATICS

Project No.	Scale
192311093	
Date	Drawing No.
2024.07.23	**M-802**

BIM 360
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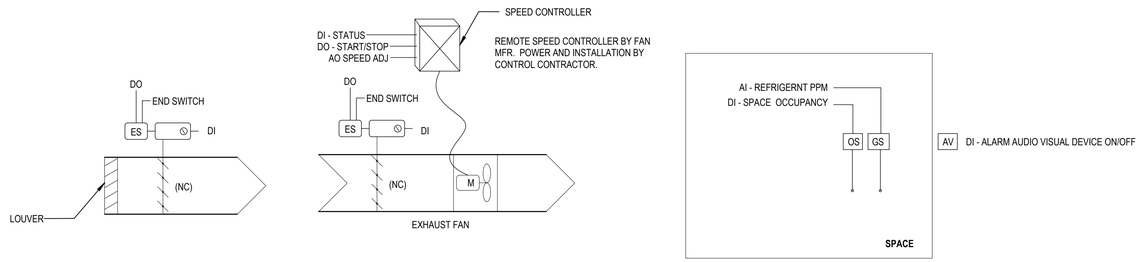

OCCUPANCY MODE
UPON THE SPACE BEING INDICATED AS OCCUPIED BY THE OCCUPACY SENSOR, THE EXHAUST FAN SHALL OPERATE AT 50% FLOW. WHEN THE SPACE IS INDICATED AS UNOCCUPIED BY THE OCCUPANCY SENSOR, THE EXHAUST FAN SHALL STOP AFTER 15 MINUTES (ADJ).

PURGE MODE
UPON THE SPACE REFRIGERANT CONCENTRATION REACHES 500 PPM, THE EXHAUST FAN SHALL OPERATE AT 100% FLOW AND THE BAS SHALL TURN ON THE AUDIO VISIUAL ALARM. WHEN THE SPACE REFRIGERANT CONCENTRATION DROPS TO 100 PPM, THE BAS SHALL TURN OFF THE AUDIO VISIUAL ALARM AND THE EXHAUST FAN SHALL STOP AFTER 15 MINUTES (ADJ).

EXHAUST FAN AND OUTSIDE AIR DAMPER
THE FAN SHALL HAVE PROOF OF OPERATION THROUGH CURRENT DETECTION. FAN STATUS SHALL BE MONITORED THROUGH THE BAS. UPON CALL FOR THE EXHAUST FAN TO START, IF STATUS IS NOT DETECTED, THE FAN SHALL BE STOPPED AND AN ALARM SHALL BE REGISTERED. IF THE FAN FAILS WHILE ON, THE BAS SHALL STOP THE FAN, AND AN ALARM SHALL BE REGISTERED.

WHEN THE FAN IS COMMANDED ON, THE FAN AND LOUVER ISOLATION DAMPERS SHALL FIRST OPEN. THE FAN SHALL THEN START ONCE THE END SWITCHES VERIFY THAT THE DAMPERS ARE OPEN. IF END SWITCH IS NOT VERIFIED AFTER 5 MINUTES (ADJ) AN ALARM SHALL BE REGISTERED AND THE FAN SHALL REMAIN OFF.

WHEN THE EXHAUST FAN IS COMMENDED OFF, THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL CLOSE.

THE FAN SHALL HAVE A MINIMUM RUN TIME OF 15 MINUTES.

1 M-803 REFRIGERANT MONITORING SYSTEM

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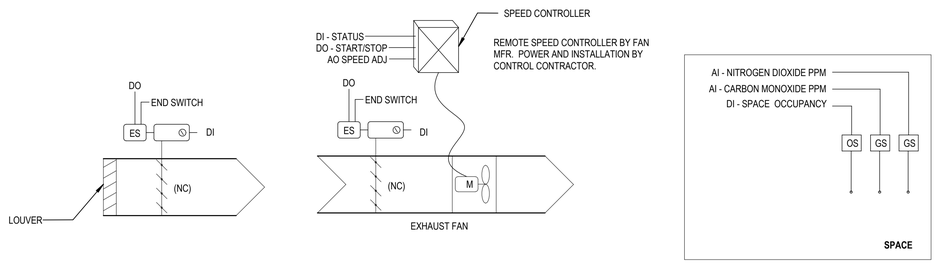

OCCUPANCY MODE
UPON THE SPACE BEING INDICATED AS OCCUPIED BY THE OCCUPACY SENSOR, THE EXHAUST FAN SHALL OPERATE AT 30% FLOW. WHEN THE SPACE IS INDICATED AS UNOCCUPIED BY THE OCCUPANCY SENSOR, THE EXHAUST FAN SHALL STOP AFTER 15 MINUTES (ADJ).

PURGE MODE
UPON THE CARBON MONOXIDE REACHING 50 PP OR NITROGEN DIOXIDE REACHING 3 PPM CONCENTRATION, THE EXHAUST FAN SHALL OPERATE AT 100% FLOW. WHEN THE SPACE CONCENTRATION LEVELS FOR BOTH GASES BEING REDUCTED TO ABOVE REFERENCED LEVELS FOR 15 MINUTES, THE BAS SHALL RETURN THE EXHAUST FAN TO OCCUPANCY MODE.

EXHAUST FAN AND OUTSIDE AIR DAMPER
THE FAN SHALL HAVE PROOF OF OPERATION THROUGH CURRENT DETECTION. FAN STATUS SHALL BE MONITORED THROUGH THE BAS. UPON CALL FOR THE EXHAUST FAN TO START, IF STATUS IS NOT DETECTED, THE FAN SHALL BE STOPPED AND AN ALARM SHALL BE REGISTERED. IF THE FAN FAILS WHILE ON, THE BAS SHALL STOP THE FAN, AND AN ALARM SHALL BE REGISTERED.

WHEN THE FAN IS COMMANDED ON, THE FAN AND LOUVER ISOLATION DAMPERS SHALL FIRST OPEN. THE FAN SHALL THEN START ONCE THE END SWITCHES VERIFY THAT THE DAMPERS ARE OPEN. IF END SWITCH IS NOT VERIFIED AFTER 5 MINUTES (ADJ) AN ALARM SHALL BE REGISTERED AND THE FAN SHALL REMAIN OFF.

WHEN THE EXHAUST FAN IS COMMENDED OFF, THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL CLOSE.

THE FAN SHALL HAVE A MINIMUM RUN TIME OF 15 MINUTES.

2 M-803 GARAGE VENTILATION SYSTEM

N.T.S.

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	-	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	MH	TAH	JR	2024.07.23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
MECHANICAL CONTROLS SCHEMATICS

Project No.
192311093

Scale

Date
2024.07.23

Drawing No.
M-803

BM:360
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ORIGINAL SHEET - ANSI D

WORK DEFINITION

- NEW WORK
- EXISTING
- REMOVE EXISTING
- REMOVE EXISTING ELECTRICAL EQUIPMENT
- FUTURE
- TEMPORARY, AS NOTED
- KEY NOTE
- EQUIPMENT IDENTIFICATION

ELECTRONIC SECURITY

- CCTV CAMERA, CEILING MOUNTED
- CCTV CAMERA, PENDANT MOUNTED
- CCTV CAMERA, POLE MOUNTED
- CCTV CAMERA, WALL MOUNTED
- CCTV CAMERA, 360° FIELD OF VIEW
- CCTV CAMERA, FIXED AIM, WEDGE INDICATES AIMING
- CCTV CAMERA, PAN/TILT/ZOOM, WEDGE INDICATES DEFAULT AIMING
- DOOR HARDWARE MARK
- LOCAL ALARM
- ACP — ACCESS CONTROL PANEL
- BR — BIOMETRIC READER
- CC — CCTV MONITOR
- CR — CARD READER
- CK — CARD READER/KEYPAD COMBINATION
- DURESS ALARM BUTTON
- DA — VOICE DURESS ALARM
- VOICE DURESS ALARM WITH STROBE, PEDESTAL MOUNTED
- VOICE DURESS ALARM WITH STROBE, WALL MOUNTED
- DS — DOOR CONTACT SWITCH
- EL — ELECTRIC LOCK
- ES — ELECTRIC STRIKE
- EX — ELECTRIC LATCH RETRACTION
- IAD — INTRUSION ARM/DISARM
- IDP — INTRUSION DETECTION PANEL
- IM — MASTER INTERCOM STATION, AUDIO ONLY
- MASTER INTERCOM STATION, AUDIO/VIDEO
- MASTER INTERCOM STATION, AUDIO ONLY, DOOR RELEASE
- MASTER INTERCOM STATION, AUDIO/VIDEO, DOOR RELEASE
- IS — SLAVE INTERCOM STATION, AUDIO ONLY
- SLAVE INTERCOM STATION, AUDIO/VIDEO
- SLAVE INTERCOM STATION, AUDIO ONLY, DOOR RELEASE
- SLAVE INTERCOM STATION, AUDIO/VIDEO, DOOR RELEASE
- KP — KEYPAD
- MOTION DETECTOR, CEILING MOUNTED
- MOTION DETECTOR, WALL MOUNTED
- PSP — POWER SUPPLY PANEL
- RE — REQUEST TO EXIT DETECTOR

TELECOM MISC.

- CABLE TRAY WITH FLANGE SIDE RAILS AND LADDER RUNGS
- CABLE TRAY
- BUNDLED CABLE SUPPORT, J-HOOK SYSTEM
- BUNDLED CABLE SUPPORT, J-HOOK SYSTEM, CEILING MOUNTED
- BUNDLED CABLE SUPPORT, J-HOOK SYSTEM, PENDANT MOUNTED
- GROUND BAR, LENGTH TO SCALE
- RAISED FLOOR GROMMET
- WAP — WIRELESS ACCESS POINT
- WAP — WIRELESS ACCESS POINT, CEILING MOUNTED

TELECOM OUTLETS

- OUTLET
- OUTLET, CEILING MOUNTED
- FURNITURE SYSTEMS OUTLET
- OUTLET, MOUNTED IN FLOOR BOX
- OUTLET, MOUNTED IN POKE THRU
- OUTLET, MOUNTED IN POWER POLE

TELECOM OUTLET TYPES

- # — # INDICATES QUANTITY OF DATA JACKS, PULLSTRING ALWAYS PROVIDED. WHERE NO QUANTITY IS NOTED, 2 DATA JACKS AND PULLSTRING.
- AC — MOUNTED 3" ABOVE COUNTER BACKSPLASH
- B — BLANK FACEPLATE, ROUGH-IN ONLY
- D — DIRECT CONNECTION TO PANEL
- M — PATIENT MONITORING
- P — PAY TELEPHONE
- R — RACEWAY MOUNTED
- W — WALL MOUNTED TELEPHONE HANDSET OUTLET
- WAP — WIRELESS ACCESS POINT CONNECTION

FIRE ALARM

- FIRE SERVICE PHONE STATION OUTLET
- FLAME DETECTOR
- CO — GAS DETECTOR, CARBON MONOXIDE
- HORN AND STROBE LIGHT, CEILING MOUNTED
- HORN AND STROBE LIGHT, WALL MOUNTED
- REMOTE INDICATOR, CEILING MOUNTED
- REMOTE INDICATOR, WALL MOUNTED
- SPEAKER AND STROBE LIGHT, CEILING MOUNTED
- SPEAKER AND STROBE LIGHT, WALL MOUNTED
- STROBE LIGHT, CEILING MOUNTED
- STROBE LIGHT, WALL MOUNTED
- AIM — ADDRESSABLE INPUT MODULE
- ARCM — AREA OF REFUGE COMMUNICATION MASTER UNIT
- ARCR — AREA OF REFUGE COMMUNICATION REMOTE UNIT
- AOM — ADDRESSABLE OUTPUT MODULE
- D — ELECTRICALLY OPERATED SMOKE OR FIRE/SMOKE DAMPER CONNECTION
- DCL — DOOR CLOSER
- DH — DOOR HOLDER
- CHIME, WALL MOUNTED
- HORN, CEILING MOUNTED
- HORN, WALL MOUNTED
- F — PULL STATION
- FAA — FIRE ALARM ANNUNCIATOR
- FACP — FIRE ALARM CONTROL PANEL
- FAT — FIRE ALARM TRANSMITTER
- FATC — FIRE ALARM TERMINAL CABINET
- GAP — GRAPHIC ANNUNCIATOR PANEL
- H F# — HEAT DETECTOR, FIXED TEMPERATURE, # INDICATES °F OR °C
- H RF — HEAT DETECTOR, COMBINED RATE OF RISE/FIXED TEMPERATURE
- H R — HEAT DETECTOR, RATE OF RISE
- NAC — FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL
- PS — PRESSURE DETECTOR/SWITCH
- S AS — SMOKE DETECTOR, AIR SAMPLING
- S BR — SMOKE DETECTOR, BEAM DETECTOR RECEIVER
- S BT — SMOKE DETECTOR, BEAM DETECTOR TRANSMITTER
- S E — SMOKE DETECTOR, ELEVATOR RECALL
- S I — SMOKE DETECTOR, IONIZATION
- S ID — SMOKE DETECTOR, IN DUCT
- S P — SMOKE DETECTOR, PHOTOELECTRIC
- SS — SMOKE DETECTOR, SINGLE STATION
- S H — SMOKE/HEAT DETECTOR
- CO — SMOKE/HEAT/CARBON MONOXIDE DETECTOR
- SPEAKER, CEILING MOUNTED
- SPEAKER, WALL MOUNTED
- TS — VALVE SUPERVISORY TAMPER SWITCH
- WF — FLOW DETECTOR/SWITCH

LIGHTING CONTROLS

- SINGLE POLE SWITCH
- INDICATES WIRELESS CONTROL
- a — LOWER-CASE LETTER(S) NEAR SWITCH DENOTE SWITCH LEG(S)
- 2 — DOUBLE POLE SWITCH
- 3 — THREE-WAY SWITCH
- 4 — FOUR-WAY SWITCH
- D — DIMMER SWITCH
- K — KEY OPERATED SWITCH
- LV — MOMENTARY CONTACT LOW VOLTAGE SWITCH
- O — OCCUPANCY SENSOR SWITCH
- OD — OCCUPANCY SENSOR/DIMMER SWITCH
- V — VACANCY SENSOR SWITCH
- VD — VACANCY SENSOR/DIMMER SWITCH
- P — SWITCH WITH PILOT LIGHT
- PC — PHOTOCELL SWITCH
- T — TIMER SWITCH
- CS # — LOW VOLTAGE CONTROL STATION, # INDICATES STATION IDENTIFICATION
- DSC — DIMMING SYSTEM CONTROL PANEL
- ELCU — EMERGENCY LIGHTING CONTROL UNIT
- LCP — LIGHTING CONTROL PANEL
- OS — OCCUPANCY SENSOR SWITCH, CEILING MOUNTED
- VS — VACANCY SENSOR SWITCH, CEILING MOUNTED
- PS — PHOTO SENSOR CONTROL
- PS — PHOTO SENSOR CONTROL, CEILING MOUNTED
- R — RELAY
- T — LOW VOLTAGE TRANSFORMER

LUMINAIRES

CIRCUITS EMERGENCY	CIRCUITS NORMAL	
		LUMINAIRE IDENTIFICATION, SEE LUMINAIRES SCHEDULE
N/A		LOWER-CASE LETTER(S) NEAR LUMINAIRE DENOTE SWITCH LEG(S)
N/A	L01	RECESSED RECTANGULAR LUMINAIRE, DRAWN TO SCALE
	a	SURFACE MOUNTED RECTANGULAR LUMINAIRE, DRAWN TO SCALE
		RECESSED BASKET LUMINAIRE, DRAWN TO SCALE
		STRIP LUMINAIRE, LENGTH TO SCALE
		WALL MOUNTED RECTANGULAR LUMINAIRE, LENGTH TO SCALE (NUMBER OF MOUNTING POINTS WILL VARY WITH THE LUMINAIRE LENGTH AND ARE NOT INDICATED.)
		RECESSED DOWNLIGHT LUMINAIRE
		SURFACE MOUNTED DOWNLIGHT LUMINAIRE
		PENDANT MOUNTED LUMINAIRE
		LINEAR PENDANT MOUNTED LUMINAIRE, LENGTH TO SCALE (NUMBER OF MOUNTING POINTS WILL VARY WITH THE LUMINAIRE LENGTH AND ARE NOT INDICATED.)
		WALL MOUNTED LUMINAIRE
		WALL MOUNTED VERTICALLY ORIENTED LUMINAIRE
		WALL MOUNTED RECESSED LINEAR LUMINAIRE, LENGTH TO SCALE
	N/A	EXIT SIGN, FILLED SIDES INDICATE ILLUMINATED ANNOTATION, ARROWS INDICATE DIRECTIONAL GRAPHICS
	N/A	WALL MOUNTED EXIT SIGN, FILLED SIDES INDICATE ILLUMINATED ANNOTATION, ARROWS INDICATE DIRECTIONAL GRAPHICS
	N/A	EXIT SIGN WITH EMERGENCY BATTERY PACK
	N/A	WALL MOUNTED EXIT SIGN WITH EMERGENCY BATTERY PACK
	N/A	EMERGENCY BATTERY PACK, NUMBER OF LAMPS NOT INDICATED
	N/A	WALL MOUNTED EMERGENCY BATTERY PACK, NUMBER OF LAMPS NOT INDICATED
	N/A	EMERGENCY WITH REMOTE BATTERY PACK, NUMBER OF LAMPS NOT INDICATED
	N/A	WALL MOUNTED EMERGENCY WITH REMOTE BATTERY PACK, NUMBER OF LAMPS NOT INDICATED
		RECESSED LINEAR WALL WASH LUMINAIRE, LENGTH TO SCALE
		RECESSED WALL WASH LUMINAIRE
		SURFACE MOUNTED WALL WASH LUMINAIRE
		RECESSED ACCENT LUMINAIRE
		SURFACE MOUNTED ACCENT LUMINAIRE
		PENDANT MOUNTED ACCENT LUMINAIRE
		MONOPOINT LUMINAIRE
	N/A	TRACK LIGHTING
	N/A	CONTINUOUS SOURCE LUMINAIRE, PATH AS INDICATED
		MULTI-LAMP ACCENT LUMINAIRE, NUMBER OF LAMPS NOT INDICATED
		WALL MOUNTED MULTI-LAMP ACCENT LUMINAIRE, NUMBER OF LAMPS NOT INDICATED
		OVERCOUNTER TASK LUMINAIRE
		UNDERCOUNTER TASK LUMINAIRE
		FIBER OPTIC REMOTE SOURCE
		STEP LUMINAIRE
		ILLUMINATED SIGN
		WALL MOUNTED ILLUMINATED SIGN
		NIGHT LIGHT

ELECTRICAL EQUIPMENT

- 208V OR 240V POWER PANELBOARD
- 480V OR 600V POWER PANELBOARD
- EQUIPMENT CABINET OR PANEL
- EQUIPMENT CONNECTION, FILL INDICATES EMERGENCY CIRCUIT
- GROUND BAR
- MOTOR CONNECTION, 1Ø
- MOTOR CONNECTION, 3Ø
- BUS DUCT
- ATS — AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- SPD — SURGE PROTECTIVE DEVICE
- T — TRANSFORMER, LESS THAN 30KVA, NOT TO SCALE
- TRANSFORMER, 30KVA OR GREATER, DRAWN TO SCALE

CIRCUITS

- RACEWAY CONCEALED IN CEILING OR WALL. EXPOSED RACEWAY IS ALLOWED ONLY WHERE NOTED.
- RACEWAY BELOW SLAB OR UNDERGROUND
- RACEWAY UP
- RACEWAY DOWN
- RACEWAY CONTINUATION
- RACEWAY STUB-OUT WITH BUSHING
- J — JUNCTION BOX, CEILING OR ABOVE CEILING MOUNTED
- J — JUNCTION BOX, WALL MOUNTED
- PB — PULL BOX

RECEPTACLES

CIRCUITS EMERGENCY	CIRCUITS NORMAL	
		SINGLE RECEPTACLE, 120V
		SINGLE RECEPTACLE, CEILING MOUNTED
		DUPLEX RECEPTACLE, 120V
		DUPLEX RECEPTACLE, CEILING MOUNTED
		DOUBLE DUPLEX RECEPTACLE, 120V
		DOUBLE DUPLEX RECEPTACLE, CEILING MOUNTED
		SPLIT WIRED RECEPTACLE, 120V, TOP SWITCHED
		RECEPTACLE, NEMA #
		COMBINATION RECEPTACLE, 120V AND NEMA #
		FURNITURE SYSTEMS RECEPTACLE, 120V
N/A		INDICATES CONTROLLED
N/A		INDICATES 15A
N/A		INDICATES TWIST LOCK
N/A		INDICATES MOUNTED 3" (75 MM) ABOVE COUNTER BACKSPLASH
N/A		MULTI-SERVICE FLOOR BOX (RECEPTACLES/OUTLETS AS INDICATED)
N/A		MULTI-SERVICE POKE THRU (RECEPTACLES/OUTLETS AS INDICATED)
N/A		MULTI-SERVICE POWER POLE (RECEPTACLES/OUTLETS AS INDICATED)
N/A		MULTI-SERVICE ASSEMBLY (RECEPTACLES/OUTLETS AS INDICATED)
N/A		CLOCK RECEPTACLE, 120V
		CEILING CORD DROP, 120V

RECEPTACLE TYPES

- A — ARC FAULT CIRCUIT INTERRUPTER
- AT — ARC FAULT CIRCUIT INTERRUPTER AND TAMPER RESISTANT
- D — DEDICATED CIRCUIT
- G — GROUND FAULT CIRCUIT INTERRUPTER
- GT — GROUND FAULT CIRCUIT INTERRUPTER AND TAMPER RESISTANT
- IG — ISOLATED GROUND
- S — SURGE PROTECTOR
- T — TAMPER RESISTANT
- U — INTEGRAL USB PORT(S)
- WP — GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHER RESISTANT COVER

ELECTRICAL CONTROLS

- NON-FUSED SAFETY SWITCH
- FUSED SAFETY SWITCH, FUSE RATING INDICATED
- COMBINATION MOTOR STARTER AND FUSED SAFETY SWITCH, FUSE RATING INDICATED
- MOTOR STARTER
- MANUAL MOTOR STARTER
- AUTOMATIC DOOR PUSHPLATE
- EMERGENCY SHUTDOWN
- ENCLOSED CIRCUIT BREAKER
- ENCLOSED CONTACTOR
- PUSH BUTTON CONTROL STATION
- M — TOGGLE SWITCH, MOTOR RATED
- DDC — DIRECT DIGITAL CONTROL PANEL
- R — RELAY
- T — THERMOSTAT
- TC — TIME CLOCK
- VFD — VARIABLE FREQUENCY DRIVE

TWO WAY COMMUNICATION

NOTES:
1. PROVIDE ALL CONDUIT AND WIRING BETWEEN BASE STATION AND CALL BOXES AS REQUIRED FOR A COMPLETE CODE COMPLIANT INSTALLATION.

- 2WB — TWO WAY COMMUNICATION BASE STATION, RATH 2500 SERIES W/ VOIP INTERFACE. PROVIDE POWER AND SUPERVISION MODULES. PROVIDE 120V DEDICATED CIRCUIT WITH LOCKABLE CIRCUIT BREAKER.
- 2W — TWO WAY COMMUNICATION CALL BOX, RATH #2100 SERIES, FLUSH MOUNT, WITH DIRECTION SIGN, RATH #7049SS

DRAWING INDEX

GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM AUTHORITIES HAVING JURISDICTION AND PAY ALL ASSOCIATED FEES.
2. LOCATE JUNCTION AND PULL BOXES AS REQUIRED TO ALLOW ACCESS AFTER EQUIPMENT AND APPURTENANCES ARE INSTALLED. COORDINATE EXACT LOCATIONS WITH THE OTHER TRADES. COORDINATE LOCATIONS AND ELEVATIONS OF ELECTRICAL DEVICES WITH DRAWINGS AND OTHER TRADES PRIOR TO INSTALLATION.
3. PROTECT PERMANENT BUILDING FINISHES FROM DAMAGE DURING CONSTRUCTION PERIOD. PROVIDE PLYWOOD OR SIMILAR MATERIAL UNDER EQUIPMENT OR MATERIALS STORED ON FLOORS, AND IN AREAS WHERE CONSTRUCTION MAY DAMAGE FINISHES. SURFACES OR FINISHES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE COST OF THE CONTRACTOR AT FAULT.
4. CONTRACTORS SHALL COORDINATE LOCATIONS OF FIXTURES AND ELECTRICAL DEVICES INSTALLED IN OR ON THE CEILING WITH ARCHITECTURAL REFLECTED CEILING PLAN. CEILING MOUNTED ELECTRICAL DEVICES SHALL BE MOUNTED IN THE CENTER OF THE CEILING TILES, UNLESS OTHERWISE NOTED.
5. WHERE DIRECTED TO USE OR RETAIN EXISTING CIRCUITS, AND THE CIRCUIT NUMBERS DIFFER FROM THE DRAWING, UPDATE DIRECTORIES AND RECORD DRAWINGS.
6. PROPERLY SUPPORT PER CODE LOW VOLTAGE CABLING NOT IN CONDUIT. IN AREAS SUCH AS CORRIDORS DESIGNATED FOR NEW CEILINGS AND FINISHES, SUPPORT EXISTING ELECTRICAL DEVICES AND EQUIPMENT IN AND ABOVE THE CEILING, INCLUDING CONDUIT AND CABLING. PROVIDE PROPER PERMANENT SUPPORT AS NEEDED TO COMPLY WITH CODE AND TAKE WEIGHT OFF CEILING SUPPORTS. REMOVE AND REINSTALL ELECTRICAL DEVICES AND EQUIPMENT AS NEEDED FOR PAINTING, WALL COVERINGS, CEILINGS, AND FINISH WORK. REFER TO ARCHITECTURAL DRAWINGS. LOW VOLTAGE CABLING LOCATED IN EXPOSED STRUCTURE (CEILING) AREAS SHALL BE INSTALLED IN CONDUIT (OR CABLE TRAY, IF APPLICABLE) AND ROUTED TIGHT TO DECK. INSTALLATIONS NOT IN COMPLIANCE WITH THIS REQUIREMENT SHALL BE REMOVED AND REINSTALLED AT CONTRACTOR'S EXPENSE.
7. WHERE PROJECT PHASING IS INDICATED IN ANY PART OF THE WORKING DOCUMENT PACKAGE, ELECTRICAL CONTRACTOR IS TO PLAN WORK SO AS TO FACILITATE SUCH PHASING.
8. FOR BRANCH CIRCUITS OVER 75' (25 METERS) IN LENGTH (TOTAL ONE WAY) FROM THE PANEL, THE ELECTRICAL CONTRACTOR SHALL CALCULATE THE VOLTAGE DROP AND PROVIDE AN APPROPRIATE CONDUCTOR SIZE TO ACHIEVE NO MORE THAN 3% MAXIMUM ALLOWABLE VOLTAGE DROP.
9. DO NOT SCALE THE DRAWINGS. BECAUSE OF THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS OR OTHER SIMILAR ITEMS WHICH MAY BE REQUIRED TO MAKE A COMPLETE OPERATING SYSTEM. CAREFULLY INVESTIGATE CONDITIONS AFFECTING WORK AND INSTALL WORK IN SUCH MANNER THAT INTERFERENCES BETWEEN PIPES, CONDUITS, DUCTS, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL FEATURES SHALL BE AVOIDED.

SIESMIC NOTES

1. CONTRACTOR SHALL SUPPORT ALL MECHANICAL, ELECTRICAL, PLUMBING, SPRINKLER, STANDPIPE, FIRE ALARM, AND ALL LOW VOLTAGE WORK AS REQUIRED FOR NY STATE SEISMIC DESIGN CATEGORY C FOR THIS FACILITY, WHICH HAS AN IMPORTANCE FACTOR OF 1.5.
2. UTILIZE VMC GROUP HANGERS AND SUPPORT SYSTEMS OR PRE-APPROVED EQUAL. SUBMIT DEVICES FOR ENGINEERS REVIEW. REFER TO DRAWING DETAILS AND SPECIFICATIONS FOR ADDITIONAL SEISMIC SUPPORT & CONTROL REQUIREMENTS.
3. ALL EQUIPMENT REQUIRED TO BE SEISMICALLY RATED SHALL BE RATED PER REQUIREMENTS REFERENCED IN THE 2020 NYS BUILDING CODE AND ALL APPLICABLE STANDARDS THEREIN. WHERE EQUIPMENT AND OR/PREFABRICATED ASSEMBLIES REQUIRE SEISMIC COMPLIANCE, CURRENT IBC CERTIFICATES OF COMPLIANCE SHALL SHALL BE PROVIDED FOR ALL MANUFACTURED COMPONENTS BY THE EQUIPMENT MANUFACTURER.
4. THESE DESIGN DOCUMENTS, INCLUDING DRAWINGS AND SPECIFICATIONS DO NOT FULLY REFLECT THE SEISMIC CONSIDERATIONS REQUIRED FOR THIS PROJECT THROUGH-OUT THE DESIGN DOCUMENTS PACKAGE. SEISMIC CONSIDERATIONS FOR THIS PROJECT ARE IDENTIFIED IN THIS NOTE, THE SEISMIC SPECIFICATIONS AND THE DRAWING SEISMIC DETAILS DRAWING SHEET(S).
5. THE SEISMIC DETAILS INCLUDES SUGGESTED DETAILS TO BE FOLLOWED FOR THE CONSTRUCTION OF THE PROJECT. ALTERNATE DETAILS ARE ACCEPTABLE AS LONG AS THEY MEET THE CERTIFICATION AND ANALYSIS SECTION OF THE PROJECT'S SEISMIC SPECIFICATION.
6. THIS TRADE CONTRACTOR SHALL SUBMIT SEISMIC SUPPORT DESIGN PACKAGE, SIGNED AND SEALED BY A LICENSED NYS PROFESSIONAL ENGINEER, FOR REVIEW BY STANTEC. SEISMIC DESIGN IS DELEGATED TO THE NYS PE HIRED BY THIS TRADE CONTRACTOR FOR ALL OF THIS TRADE CONTRACTOR'S WORK.

1.01 SEISMIC RESTRAINT

A. ALL EQUIPMENT AND SYSTEMS, WHETHER ISOLATED OR NOT, SHALL BE BOLTED TO STRUCTURE TO ALLOW FOR MINIMUM 0.75 "G" OF ACCELERATION. BOLT POINTS AND DIAMETER OF INSERTS SHALL BE SUBMITTED AND VERIFIED AS PART OF THE CONTRACTOR'S SUBMISSION FOR EACH PIECE OF EQUIPMENT AND CERTIFIED BY A LICENSED CIVIL OR STRUCTURAL ENGINEER. FIXINGS THAT RELY UPON FRICTION DUE TO GRAVITATIONAL FORCES ARE NOT PERMITTED.

1. WHERE REQUIRED, SEISMICALLY RESTRAIN ALL DISTRIBUTION WITH CENTER BRACING OR TYPE II RESTRAINING SYSTEM IN ACCORDANCE WITH NEW YORK STATE CODE.
2. SEISMIC RESTRAINTS ARE NOT REQUIRED FOR: N/A.
3. WHERE BASE ANCHORING IS INSUFFICIENT TO RESIST SEISMIC FORCES, ETC., SEISMIC RESTRAINT SYSTEM TYPE II SHALL BE USED ABOVE SYSTEM'S CENTER OF GRAVITY TO SUITABLY RESIST "G" FORCE LEVELS.
4. FOR OVERHEAD SUPPORTED EQUIPMENT, OVERSTRESS OF THE BUILDING STRUCTURE MUST NOT OCCUR. BRACING CAN OCCUR FROM:
   a. FLANGES OF STRUCTURAL BEAMS.
   b. UPPER OR LOWER TRUSS CHORDS IN BAR JOISTS CONSTRUCTION AT THE PANEL POINTS.
   c. CAST-IN-PLACE INSERTS OR DRILLED AND SHIELDED INSERTS IN CONCRETE STRUCTURES
5. GRAVITY OR "C" CLAMPS ARE NOT PERMITTED FOR SUSPENSION OR RESTRAINT OF EQUIPMENT.
6. ALL STRUCTURALLY SUSPENDED OVERHEAD EQUIPMENT ISOLATED OR UN-ISOLATED SHALL BE FOUR-POINT INDEPENDENTLY BRACED WITH TYPE II SEISMIC RESTRAINING SYSTEM.
7. SEISMIC RESTRAINTS:
   a. SEISMIC RESTRAINTS SHALL BE CAPABLE OF SAFELY ACCEPTING 0.75 "G" EXTERNAL FORCES WITHOUT FAILURE AND SHALL MAINTAIN EQUIPMENT, AND ASSOCIATED DISTRIBUTION IN A CAPTIVE POSITION. SEISMIC RESTRAINTS SHALL NOT SHORT CIRCUIT ISOLATION SYSTEMS OR TRANSMIT OBJECTIONABLE VIBRATION OR NOISE, AND SHALL BE PROVIDED ON ALL EQUIPMENT AS SCHEDULED ON DESCRIBED HERE. CALCULATION BY REGISTERED STRUCTURAL OR CIVIL ENGINEER SHALL BE SUBMITTED TO VERIFY SNUBBER CAPACITIES FOR EACH PIECE OF EQUIPMENT.
   b. EQUIPMENT MOUNTED ON SPRINGS DOES NOT REQUIRE ADDITIONAL SEISMIC RESTRAINTS, PROVIDING THAT THE SPRING MOUNTINGS
      - (I) COMPLY WITH GENERAL CHARACTERISTICS OF SPRING ISOLATORS.
      - (II) HAVE VERTICAL LIMIT STOPS AND ARE CAPABLE OF SUPPORTING EQUIPMENT AT FIXED ELEVATION DURING EQUIPMENT ERECTION.
      - (III) INCORPORATE SEISMIC SNUBBING RESTRAINT IN ALL DIRECTIONS AT SPECIFIED ACCELERATION
8. SEISMIC RESTRAINT TYPES A.
   a. SEISMIC RESTRAINTS TYPE I
      - (I) EACH CORNER OR SIDE SEISMIC RESTRAINT SHALL INCORPORATE MINIMUM .625 INCH THICK PAD LIMIT STOPS. RESTRAINTS SHALL BE MADE OF PLATE, STRUCTURAL MEMBERS OR SQUARE METAL TUBING IN A WELDED ASSEMBLY, INCORPORATING RESILIENT PADS. ANGLE BUMPERS ARE NOT ACCEPTABLE. SYSTEM TO BE FIELD BOLTED TO DECK WITH 0.75 "G" ACCELERATION CAPACITY.
      - (II) SEISMIC SPRING MOUNTINGS AS DESCRIBED ABOVE ARE AN ACCEPTABLE ALTERNATIVE, PROVIDING ALL SEISMIC LOADING REQUIREMENTS ARE MET
      - (III) VMC GROUP, AS INDICATED ON SEISMIC DETAIL SHEET OR AS APPROVED.
   b. SEISMIC RESTRAINT TYPE II
      - (I) METAL CABLE TYPE WITH APPROVED FASTENING DEVICES TO EQUIPMENT AND STRUCTURE. SYSTEM TO BE FIELD BOLTED TO DECK OR OVERHEAD STRUCTURAL MEMBERS OR DECK WITH AIRCRAFT CABLE AND CLAMPS PER SMACNA AND/OR OTHER APPLICABLE GUIDELINES.

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	TR	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	WM	HSB	TR	2024.04.03
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
ELECTRICAL LEAD SHEET

Project No.
192311093

Scale
12" = 1'-0"

Date
2024.04.03

Drawing No.
E-001

BIM 360
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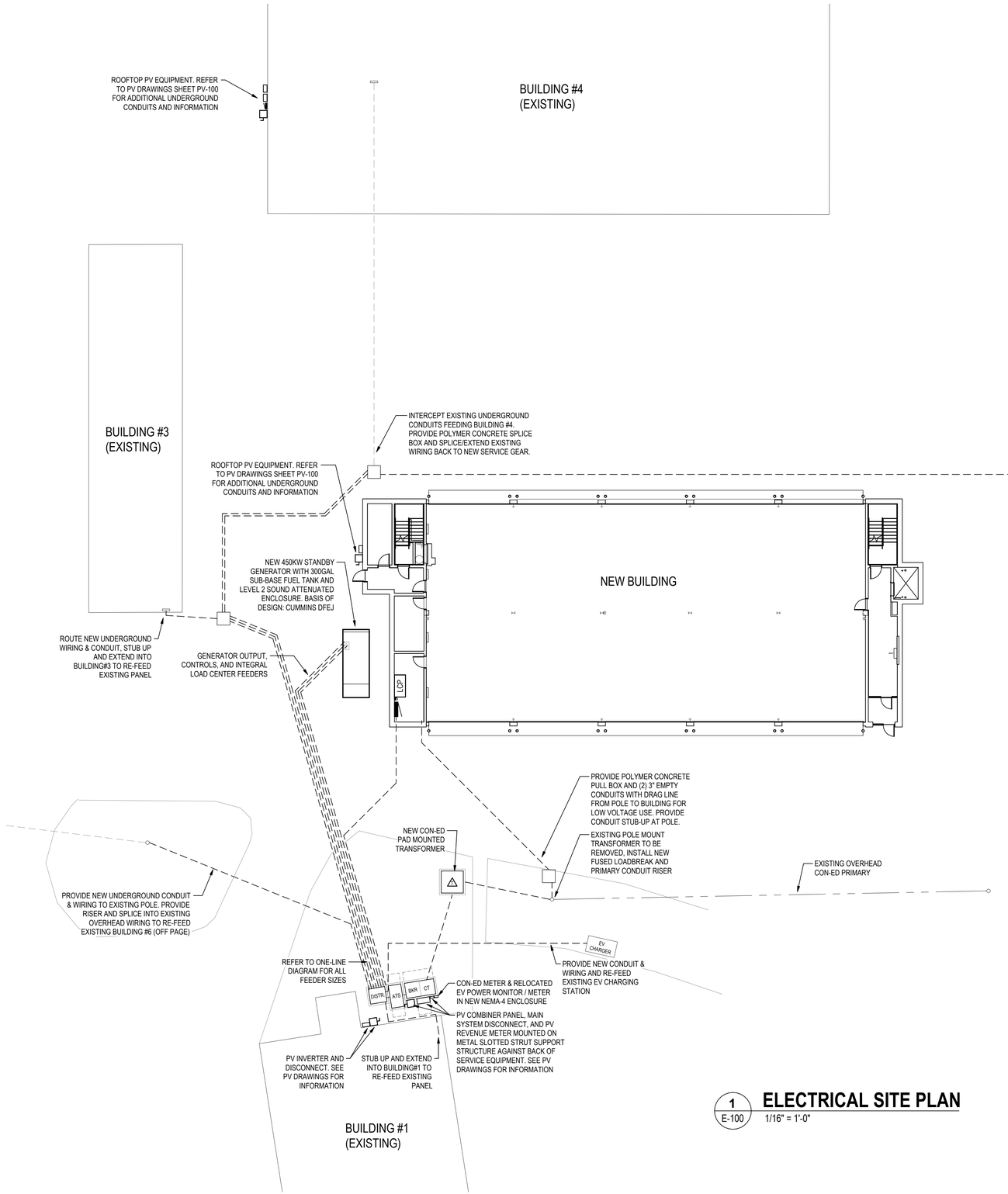
ORIGINAL SHEET - ANSI D



1 / E-100 **ELECTRICAL SITE PLAN**
1/16" = 1'-0"

GENERAL NOTES:
1. CONDUIT AND DUCTBANK ROUTING SHOWN ON THIS DRAWING IS DIAGRAMMATIC. REFER TO ONE-LINE DIAGRAM AND CIVIL DRAWING C-103 FOR MORE INFORMATION.

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	TR	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	WM	HSB	TR	2024.04.03
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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DISBROW PARK
RYE, NY 10580

Title
ELECTRICAL SITE PLAN

Project No.	Scale
192311093	1/16" = 1'-0"
Date	Drawing No.
2024.04.03	**E-100**

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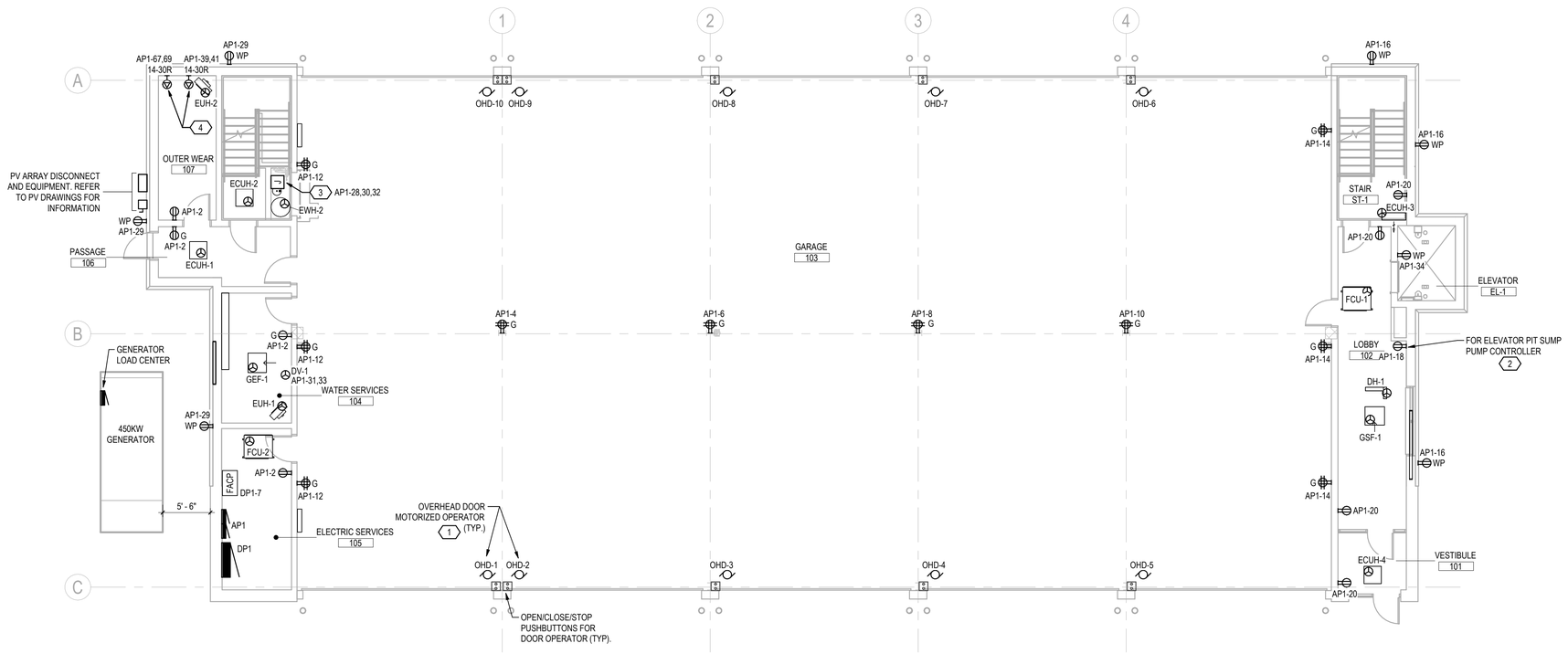

1 FIRST FLOOR POWER PLAN

E-101

1/8" = 1'-0"

EQUIPMENT CONNECTIONS SCHEDULE - FIRST FLOOR

TAG	PANEL	CIRCUIT NO.	VOLTAGE	NUMBER OF POLES	LOAD	DISCONNECTING MEANS PROVIDED BY E.C.	CIRCUIT RATING
DH-1	DP1	2	208 V	3	18000 VA	250V/3P/SN/100A NEMA-1 DISCONNECT SW.	70A
DV-1	AP1	31,33	208 V	2	478 VA	250V/3P/SN/30A FUSIBLE NEMA-1 DISCONNECT SW.	15A
ECUH-1	AP1	43,45,47	208 V	3	3000 VA	(PROVIDED BY VENDOR INTERNAL TO UNIT)	20A
ECUH-2	AP1	49,51,53	208 V	3	3000 VA	(PROVIDED BY VENDOR INTERNAL TO UNIT)	20A
ECUH-3	AP1	55,57,59	208 V	3	3000 VA	(PROVIDED BY VENDOR INTERNAL TO UNIT)	20A
ECUH-4	AP1	61,63,65	208 V	3	3000 VA	(PROVIDED BY VENDOR INTERNAL TO UNIT)	20A
EUH-1	AP1	36,38,40	208 V	3	3300 VA	250V/3P/SN/30A NEMA-1 DISCONNECT SW.	20A
EUH-2	AP1	42,44,46	208 V	3	3300 VA	250V/3P/SN/30A NEMA-1 DISCONNECT SW.	20A
EWH-2	DP1	1	208 V	3	4100 VA	250V/3P/SN/60A NEMA-1 DISCONNECT SW.	45A
FCU-1	AP1	35,37	208 V	2	133 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
FCU-2	AP1	35,37	208 V	2	266 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
GEF-1	AP1	48,50,52	208 V	3	3963 VA	250V/3P/SN/30A NEMA-1 DISCONNECT SW.	20A
GSF-1	AP1	54,56,58	208 V	3	3963 VA	250V/3P/SN/30A NEMA-1 DISCONNECT SW.	20A
OHD-1	AP1	3	120 V	1	1176 VA	MOTOR RATED SNAP SWITCH, 120V/1P/20A	20A
OHD-2	AP1	5	120 V	1	1176 VA	MOTOR RATED SNAP SWITCH, 120V/1P/20A	20A
OHD-3	AP1	7	120 V	1	1176 VA	MOTOR RATED SNAP SWITCH, 120V/1P/20A	20A
OHD-4	AP1	9	120 V	1	1176 VA	MOTOR RATED SNAP SWITCH, 120V/1P/20A	20A
OHD-5	AP1	11	120 V	1	1176 VA	MOTOR RATED SNAP SWITCH, 120V/1P/20A	20A
OHD-6	AP1	13	120 V	1	1176 VA	MOTOR RATED SNAP SWITCH, 120V/1P/20A	20A
OHD-7	AP1	15	120 V	1	1176 VA	MOTOR RATED SNAP SWITCH, 120V/1P/20A	20A
OHD-8	AP1	17	120 V	1	1176 VA	MOTOR RATED SNAP SWITCH, 120V/1P/20A	20A
OHD-9	AP1	19	120 V	1	1176 VA	MOTOR RATED SNAP SWITCH, 120V/1P/20A	20A
OHD-10	AP1	21	120 V	1	1176 VA	MOTOR RATED SNAP SWITCH, 120V/1P/20A	20A

NOTES:
CIRCUIT RATINGS LISTED IN THE TABLE ABOVE DO NOT INCLUDE ADJUSTMENT FACTORS FOR CONDUIT FILL, VOLTAGE DROP, OR OTHER FACTORS. CONTRACTOR TO PERFORM VOLTAGE DROP CALCULATIONS AND ADJUSTMENTS BASED ON ACTUAL CIRCUIT LENGTHS AND FIELD CONDITIONS AND SHALL MAKE ADJUSTMENTS AS REQUIRED TO COMPLY WITH NEC REQUIREMENTS.

GENERAL NOTES:

1. REFER TO DRAWING E-001 FOR ELECTRICAL DRAWING LIST, SYMBOLS LEGEND, AND GENERAL NOTES.
2. REFER TO DRAWING E-601 FOR FEEDER & BRANCH CIRCUIT SIZING SCHEDULE, AND ONE-LINE DIAGRAMS.
3. REFER TO DIVISION 26 BOOK SPECIFICATIONS FOR ADDITIONAL MATERIALS AND INSTALLATION REQUIREMENTS.
4. REFER TO CIVIL DRAWINGS FOR SITE PLAN AND SITE WORK PERTAINING TO THE ELECTRIC SERVICE INSTALLATIONS.
5. ALL OUTDOOR EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL WITH THREADED FITTINGS. ALL OUTDOOR BELOW GRADE CONDUITS SHALL BE SCHEDULE 80 PVC.

 # KEYED NOTES:

1. PROVIDE AND INSTALL ALL INTERCONNECTING WIRING FOR GARAGE DOOR OPERATOR, PUSHBUTTONS, SAFETY DEVICES ETC. IN ACCORDANCE WITH MANUFACTURERS LITERATURE.
2. FURNISH AND INSTALL ALL INTERCONNECTING WIRING AND TERMINATIONS. REFER TO SUMP PUMP CONTROLLER MANUFACTURERS LITERATURE FOR INTERCONNECTING WIRING REQUIREMENTS BETWEEN PUMP CONTROLLER AND PUMP, OIL SENSING PROBE, LEVEL SENSOR FLOATS, AND REMOTE MONITORING CONNECTIONS. COORDINATE LOCATION OF POWER CONNECTION AND COMPONENTS IN FIELD WITH PLUMBING CONTRACTOR.
3. PROVIDE MATCHING RECEPTACLE FOR OWNER FURNISHED PRESSURE WASHER.
4. PROVIDE MATCHING CORDSET AND ALL CONNECTIONS FOR OWNER FURNISHED CLOTHES DRYERS.

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title

FIRST FLOOR POWER PLAN

Project No.	Scale
192311093	1/8" = 1'-0"
Date	Drawing No.
2024.04.03	E-101

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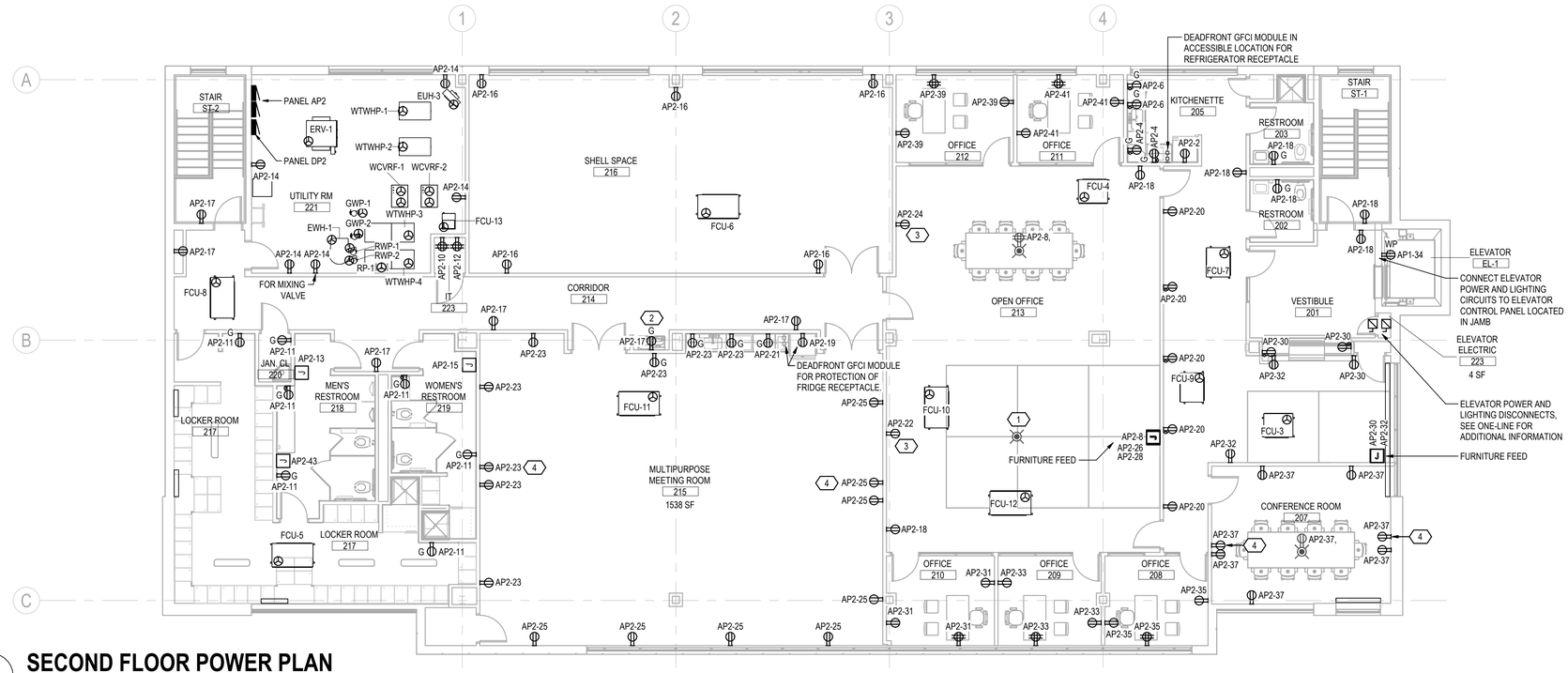

1 SECOND FLOOR POWER PLAN
E-102 — 1/8" = 1'-0"

EQUIPMENT CONNECTIONS SCHEDULE - SECOND FLOOR

TAG	PANEL	CIRCUIT NO.	VOLTAGE	NUMBER OF POLES	LOAD	DISCONNECTING MEANS PROVIDED BY E.C.	CIRCUIT RATING
EL-1 (ELEVATOR)	DP1	6	208 V	3	28172 VA	ENCLOSED C.B. WITH SHUNT TRIP AND AUX CONTACTS. SEE ONE-LINE	100A
ERV-1	DP2	7	208 V	3	4760 VA	250V/3P/SN/30A NEMA-1 DISCONNECT SW.	20A
EUH-3	DP2	15	208 V	3	3300 VA	250V/3P/SN/30A NEMA-1 DISCONNECT SW.	20A
EWH-1	DP2	13	208 V	3	15000 VA	250V/3P/SN/60A NEMA-1 DISCONNECT SW.	60A
FCU-3	DP2	14	208 V	2	133 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
FCU-4	DP2	14	208 V	2	266 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
FCU-5	DP2	16	208 V	2	233 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
FCU-6	DP2	14	208 V	2	533 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
FCU-7	DP2	14	208 V	2	133 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
FCU-8	DP2	16	208 V	2	133 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
FCU-9	DP2	14	208 V	2	266 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
FCU-10	DP2	14	208 V	2	533 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
FCU-11	DP2	16	208 V	2	533 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
FCU-12	DP2	14	208 V	2	266 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
FCU-13	DP2	16	208 V	2	815 VA	MOTOR RATED 2-POLE SNAP SWITCH WITH COVERPLATE PADLOCK ATTACHMENT	15A
GWP-1	DP2	8	208 V	3	6304 VA	PACKAGED VFD WITH INTEGRAL DISCONNECT & BYPASS SWITCH, LCD HMI. SQUARE-D S-FLEX #SFD212FG2YA07D07 OR EQUAL	35A
GWP-2	DP2	11	208 V	3	6304 VA	PACKAGED VFD WITH INTEGRAL DISCONNECT & BYPASS SWITCH, LCD HMI. SQUARE-D S-FLEX #SFD212FG2YA07D07 OR EQUAL	35A
RP-1	DP2	10	120 V	1	528 VA	MOTOR RATED SNAP SWITCH, 120V/1P/20A	15A
RWP-1	DP2	9	208 V	3	2810 VA	250V/3P/SN/30A NEMA-1 DISCONNECT SW.	15A
RWP-2	DP2	12	208 V	3	2810 VA	250V/3P/SN/30A NEMA-1 DISCONNECT SW.	15A
WCVRF-1	DP2	3	208 V	3	7926 VA	250V/3P/SN/60A NEMA-1 DISCONNECT SW.	40A
WCVRF-1(B)	DP2	5	208 V	3	7926 VA	250V/3P/SN/60A NEMA-1 DISCONNECT SW.	40A
WCVRF-2	DP2	4	208 V	3	7926 VA	250V/3P/SN/60A NEMA-1 DISCONNECT SW.	40A
WCVRF-2(B)	DP2	6	208 V	3	7926 VA	250V/3P/SN/60A NEMA-1 DISCONNECT SW.	40A
WTWHP-1	DP2	1	208 V	3	18730 VA	250V/3P/SN/100A NEMA-1 DISCONNECT SW.	80A
WTWHP-2	DP2	2	208 V	3	18730 VA	250V/3P/SN/100A NEMA-1 DISCONNECT SW.	80A
WTWHP-3	DP2	17	208 V	2	4306 VA	250V/3P/SN/60A NEMA-1 DISCONNECT SW.	35A
WTWHP-4	DP2	18	208 V	2	4306 VA	250V/3P/SN/60A NEMA-1 DISCONNECT SW.	35A

NOTES:
CIRCUIT RATINGS LISTED IN THE TABLE ABOVE DO NOT INCLUDE ADJUSTMENT FACTORS FOR CONDUIT FILL, VOLTAGE DROP, OR OTHER FACTORS. CONTRACTOR TO PERFORM VOLTAGE DROP CALCULATIONS AND ADJUSTMENTS BASED ON ACTUAL CIRCUIT LENGTHS AND FIELD CONDITIONS AND SHALL MAKE ADJUSTMENTS AS REQUIRED TO COMPLY WITH NEC REQUIREMENTS.

GENERAL NOTES:
1. REFER TO DRAWING E-001 FOR ELECTRICAL DRAWING LIST, SYMBOLS LEGEND, AND GENERAL NOTES.
2. REFER TO DRAWING E-601 FOR FEEDER & BRANCH CIRCUIT SIZING SCHEDULE, AND ONE-LINE DIAGRAMS.
3. REFER TO DIVISION 26 BOOK SPECIFICATIONS FOR ADDITIONAL MATERIALS AND INSTALLATION REQUIREMENTS.

(#) KEYED NOTES:
1. INCLUDE IN BID AN ALLOWANCE TO FURNISH AND INSTALL FLOOR POKE THRU AND ASSOCIATED WIRING & CONDUIT RUNS FOR FLOOR FURNITURE FEED IN ADDITION TO WALL FEED. COORDINATE LOCATION IN FIELD WITH FURNITURE VENDOR.
2. COORDINATE ROUGH-IN LOCATION WITH APPROVED WATER FOUNTAIN SHOP DRAWINGS / LITERATURE.
3. DEDICATED RECEPTACLE FOR COPIER / PRINTER. COORDINATE ACTUAL LOCATION IN FIELD WITH OWNER.
4. COORDINATE RECEPTACLE MOUNTING HEIGHT AND LOCATION FOR TV WITH OWNERS AV INSTALLER.

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
SECOND FLOOR POWER PLAN

Project No. 192311093
Scale 1/8" = 1'-0"
Date 2024.04.03
Drawing No. E-102

BIM 360
FY1/2024.4.10 2 PM

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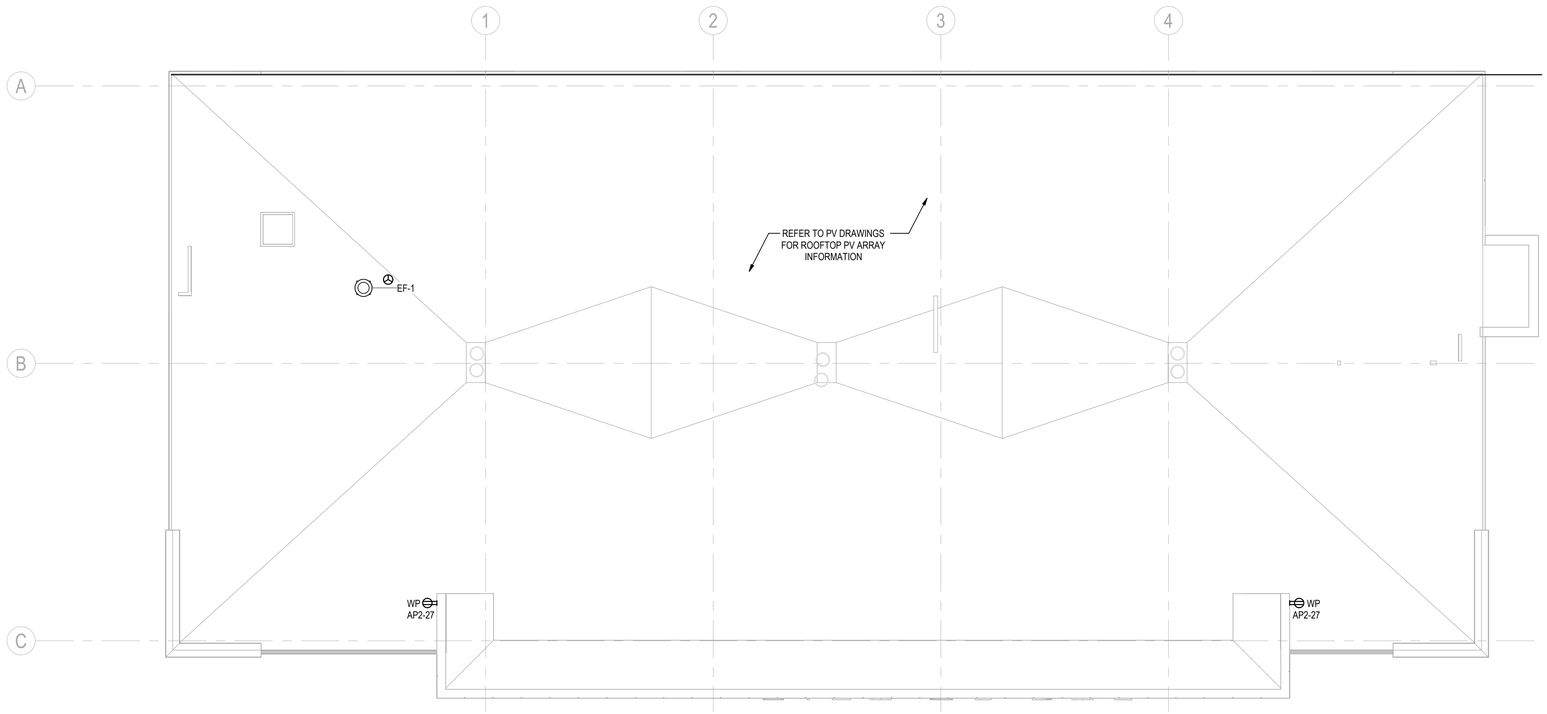

1 ROOF POWER PLAN

E-103

1/8" = 1'-0"

EQUIPMENT CONNECTIONS SCHEDULE - ROOF

TAG	PANEL	CIRCUIT NO.	VOLTAGE	NUMBER OF POLES	LOAD	DISCONNECTING MEANS PROVIDED BY E.C.	CIRCUIT RATING
EF-1	AP2	29	120 V	1	336 VA	MOTOR RATED SNAP SWITCH, 120V/1P/20A, WEATHERPROOF ENCLOSURE	15A

GENERAL NOTES:

1. REFER TO DRAWING E-001 FOR ELECTRICAL DRAWING LIST, SYMBOLS LEGEND, AND GENERAL NOTES.
2. REFER TO DRAWING E-601 FOR FEEDER & BRANCH CIRCUIT SIZING SCHEDULE, AND ONE-LINE DIAGRAMS.
3. REFER TO DIVISION 26 BOOK SPECIFICATIONS FOR ADDITIONAL MATERIALS AND INSTALLATION REQUIREMENTS.
4. SOLAR INVERTERS SHALL BE LOCATED IN THE FIRST FLOOR ELECTRICAL SERVICES ROOM.

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DISBROW PARK
RYE, NY 10580

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ROOF POWER PLAN

Project No.	Scale
192311093	1/8" = 1'-0"
Date	Drawing No.
2024.04.03	E-103

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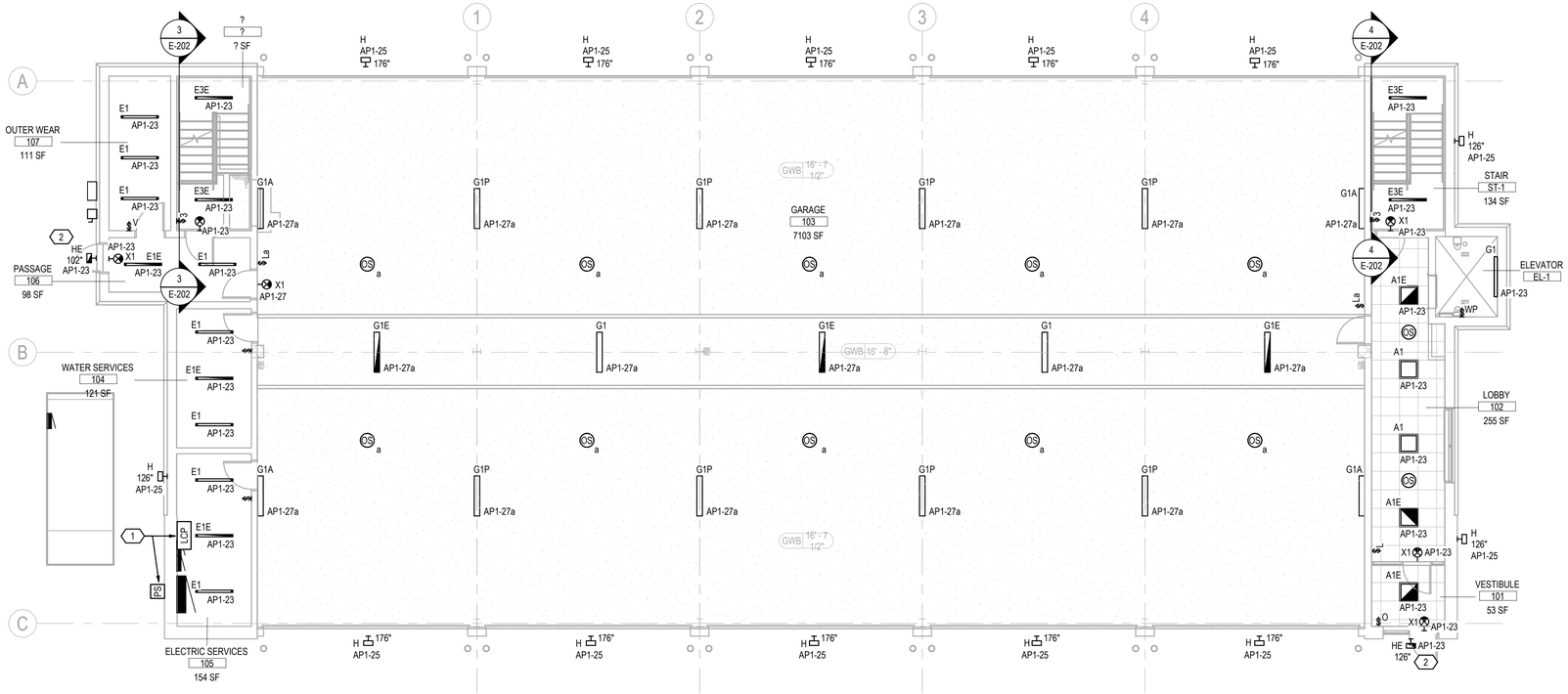

1 FIRST FLOOR LIGHTING PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO DRAWING E-001 FOR ELECTRICAL DRAWING LIST, SYMBOLS LEGEND, AND GENERAL NOTES.
2. REFER TO DRAWING E-601 FOR FEEDER & BRANCH CIRCUIT SIZING SCHEDULE, AND ONE-LINE DIAGRAMS.
3. REFER TO DRAWING E-602 FOR LIGHTING FIXTURE SCHEDULE.
4. REFER TO DIVISION 26 BOOK SPECIFICATIONS FOR ADDITIONAL MATERIALS AND INSTALLATION REQUIREMENTS.

KEYED NOTES:

1. DIGITAL PROGRAMMABLE TIME CLOCK CONFORMING TO 2020 NY STATE ENERGY CODE SECTION C405.2.6.4. UNIT SHALL HAVE 7-DAY SCHEDULE WITH AUTOMATIC HOLIDAY SETBACK AND PROGRAM BACKUP CAPABILITY WITH PHOTOCELL INPUT FOR CONTROL OF EXTERIOR TYPE "H" LIGHTING FIXTURE CIRCUITS.
2. EXTERIOR EGRESS LIGHTING FIXTURES (TYPE "HE") TO BE CONTROLLED VIA INTEGRAL PHOTOCELL.

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FIRST FLOOR LIGHTING PLAN

Project No.	Scale
192311093	1/8" = 1'-0"
Date	Drawing No.
2024.04.03	E-201

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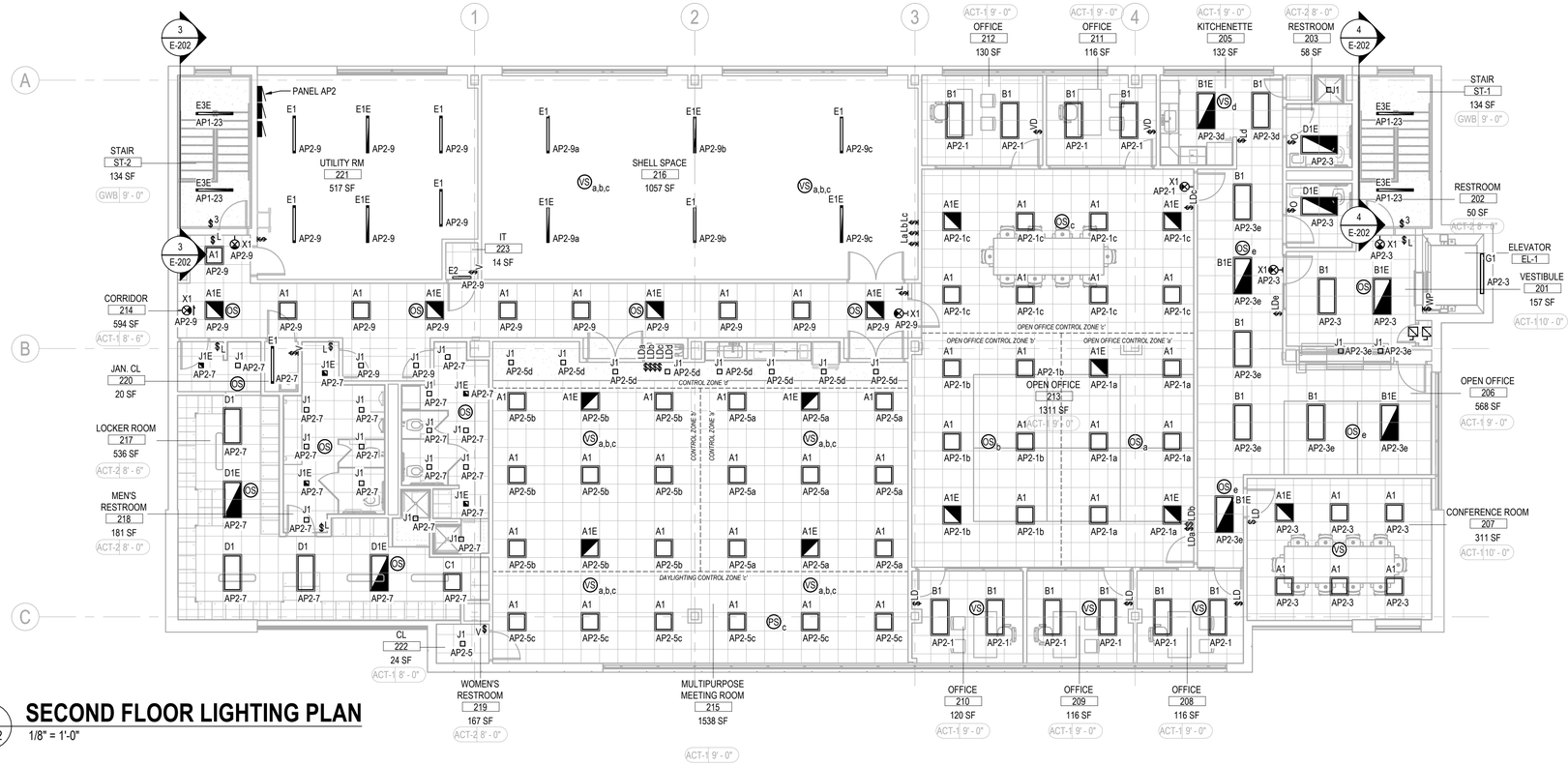
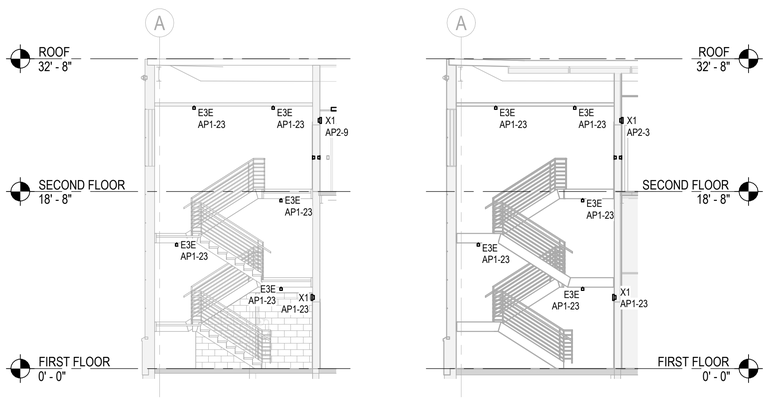


1 SECOND FLOOR LIGHTING PLAN
E-202 — 1/8" = 1'-0"



3 Section 2
E-202 — 1/8" = 1'-0"

4 Section 3
E-202 — 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO DRAWING E-001 FOR ELECTRICAL DRAWING LIST, SYMBOLS LEGEND, AND GENERAL NOTES.
2. REFER TO DRAWING E-601 FOR FEEDER & BRANCH CIRCUIT SIZING SCHEDULE, AND ONE-LINE DIAGRAMS.
3. REFER TO DRAWING E-602 FOR LIGHTING FIXTURE SCHEDULE.
4. REFER TO DIVISION 26 BOOK SPECIFICATIONS FOR ADDITIONAL MATERIALS AND INSTALLATION REQUIREMENTS.
5. LIGHTING CONTROLS BASIS OF DESIGN: WATTSTOPPER WIRED DLM & WALL BOX LINE VOLTAGE DEVICES.

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Title
SECOND FLOOR LIGHTING PLAN

Project No.	Scale
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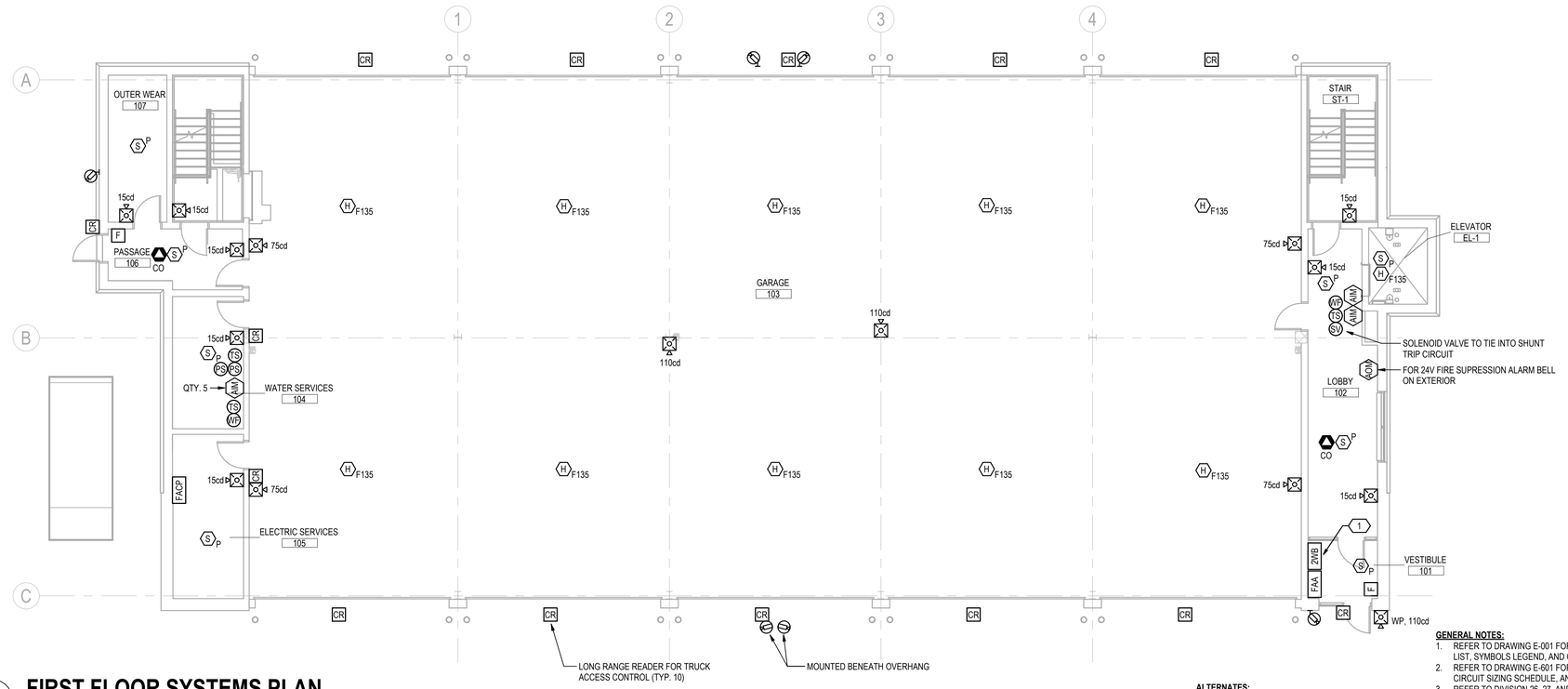
Date	Drawing No.
2024.04.03	**E-202**



1 FIRST FLOOR SYSTEMS PLAN

E-301 — 1/8" = 1'-0"

ALTERNATES:

1. INCLUDE IN BASE BID THE DELEGATED DESIGN AND ASSOCIATED INSTALLATION SERVICES FOR THE FIRE ALARM SYSTEM BY CURRENT CITY OF RYE VENDOR. CONTRACTOR MAY PROVIDE DEDUCT ALTERNATE FOR OTHER VENDORS FOR CONSIDERATION. COORDINATE WITH CITY OF RYE DPW FOR CONTACT PERSON.
2. INCLUDE IN BASE BID THE DELEGATED DESIGN AND ASSOCIATED INSTALLATION SERVICES FOR THE ACCESS CONTROL AND CCTV SYSTEM BY CURRENT CITY OF RYE VENDOR. CONTRACTOR MAY PROVIDE DEDUCT ALTERNATE FOR OTHER VENDORS FOR CONSIDERATION. COORDINATE WITH CITY OF RYE DPW FOR CONTACT PERSON.
3. INCLUDE IN BASE BID THE DELEGATED DESIGN AND ASSOCIATED INSTALLATION SERVICES FOR THE IT / TEL/DATA SYSTEM BY CURRENT CITY OF RYE VENDOR. CONTRACTOR MAY PROVIDE DEDUCT ALTERNATE FOR OTHER VENDORS FOR CONSIDERATION. COORDINATE WITH CITY OF RYE DPW FOR CONTACT PERSON.

GENERAL NOTES:

1. REFER TO DRAWING E-001 FOR ELECTRICAL DRAWING LIST, SYMBOLS LEGEND, AND GENERAL NOTES.
2. REFER TO DRAWING E-601 FOR FEEDER & BRANCH CIRCUIT SIZING SCHEDULE, AND ONE-LINE DIAGRAMS.
3. REFER TO DIVISION 26, 27, AND 28 BOOK SPECIFICATIONS FOR ADDITIONAL MATERIALS AND INSTALLATION REQUIREMENTS.
4. ALL DATA JACKS SHALL BE WIRED VIA CAT-6 ROUTED BACK TO IT CLOSET WITH SUFFICIENT SLACK FOR FINAL CONNECTIONS/TERMINATIONS BY OTHERS. COORDINATE WITH OWNERS IT VENDOR FOR JACK SPECIFICATIONS, COLOR CODING, LABELING REQUIREMENTS ETC. LABEL BOTH ENDS OF CABLE.
5. CCTV SYSTEM DESIGN AND EQUIPMENT SELECTIONS TO BE A DELEGATED DESIGN. COORDINATE WITH CCTV VENDORS SHOP DRAWINGS AND EQUIPMENT SELECTIONS FOR PROJECT SPECIFIC REQUIREMENTS. ELECTRICAL CONTRACTOR TO PROVIDE ALL ROUGH-INS, WIRING, AND RACEWAYS REQUIRED.
6. FIRE ALARM SYSTEM DESIGN AND EQUIPMENT SELECTIONS TO BE A DELEGATED DESIGN. COORDINATE WITH FIRE ALARM VENDORS SHOP DRAWINGS AND EQUIPMENT SELECTIONS FOR PROJECT SPECIFIC REQUIREMENTS. ELECTRICAL CONTRACTOR TO PROVIDE ALL ROUGH-INS, WIRING, AND RACEWAYS REQUIRED.
7. ACCESS CONTROL SYSTEM DESIGN AND EQUIPMENT SELECTIONS TO BE A DELEGATED DESIGN. COORDINATE WITH ACCESS CONTROL VENDORS SHOP DRAWINGS AND EQUIPMENT SELECTIONS FOR PROJECT SPECIFIC REQUIREMENTS. ELECTRICAL CONTRACTOR TO PROVIDE ALL ROUGH-INS, WIRING, AND RACEWAYS REQUIRED.

KEYED NOTES:

1. PROVIDE CAT-6 VOIP PHONE LINE TO TWO-WAY COMMUNICATION BASE STATION. PROVIDE INTERCONNECTING WIRING BETWEN BASE STATION AND CALL STATION ON SECOND FLOOR AS PER MANUFACTURERS REQUIREMENTS. SEE DRAWING E-001 SYMBOL LEGEND FOR ADDITIONAL NOTES AND BASIS OF DESIGN SELECTION.

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ORIGINAL SHEET - ANSI D

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Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	TR	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	WM	HSB	TR	2024.04.03
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

STATE OF NEW YORK
HERBERT S BOCCARD
LICENSED PROFESSIONAL ENGINEER
Y01221

Client/Project Logo

1660 1904
CITY OF RYE NY 1942

Client/Project

CITY OF RYE

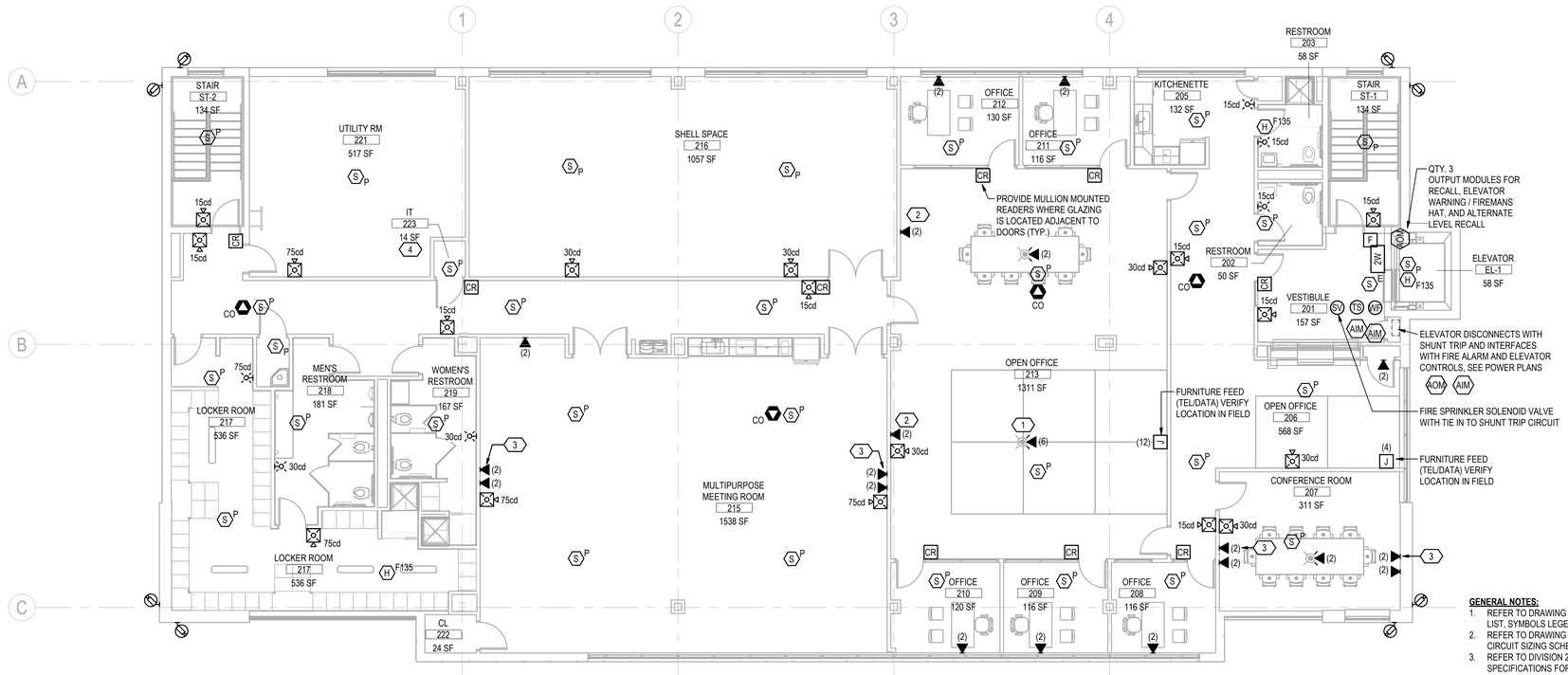
DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title

FIRST FLOOR SYSTEMS PLAN

Project No.	Scale
192311093	1/8" = 1'-0"
Date	Drawing No.
2024.04.03	E-301



1 SECOND FLOOR SYSTEMS PLAN

E-302

1/8" = 1'-0"

ALTERNATES:

1. INCLUDE IN BASE BID THE DELEGATED DESIGN AND ASSOCIATED INSTALLATION SERVICES FOR THE FIRE ALARM SYSTEM BY CURRENT CITY OF RYE VENDOR. CONTRACTOR MAY PROVIDE DEDUCT ALTERNATE FOR OTHER VENDORS FOR CONSIDERATION. COORDINATE WITH CITY OF RYE DPW FOR CONTACT PERSON.
2. INCLUDE IN BASE BID THE DELEGATED DESIGN AND ASSOCIATED INSTALLATION SERVICES FOR THE ACCESS CONTROL AND CCTV SYSTEM BY CURRENT CITY OF RYE VENDOR. CONTRACTOR MAY PROVIDE DEDUCT ALTERNATE FOR OTHER VENDORS FOR CONSIDERATION. COORDINATE WITH CITY OF RYE DPW FOR CONTACT PERSON.
3. INCLUDE IN BASE BID THE DELEGATED DESIGN AND ASSOCIATED INSTALLATION SERVICES FOR THE IT / TEL/DATA SYSTEM BY CURRENT CITY OF RYE VENDOR. CONTRACTOR MAY PROVIDE DEDUCT ALTERNATE FOR OTHER VENDORS FOR CONSIDERATION. COORDINATE WITH CITY OF RYE DPW FOR CONTACT PERSON.

GENERAL NOTES:

1. REFER TO DRAWING E-001 FOR ELECTRICAL DRAWING LIST, SYMBOLS LEGEND, AND GENERAL NOTES.
2. REFER TO DRAWING E-601 FOR FEEDER & BRANCH CIRCUIT SIZING SCHEDULE, AND ONE-LINE DIAGRAMS.
3. REFER TO DIVISION 26, 27, AND 28 BOOK SPECIFICATIONS FOR ADDITIONAL MATERIALS AND INSTALLATION REQUIREMENTS.
4. ALL DATA JACKS SHALL BE WIRED VIA CAT-6 ROUTED BACK TO IT CLOSET WITH SUFFICIENT SLACK FOR FINAL CONNECTIONS/TERMINATIONS BY OTHERS. COORDINATE WITH OWNERS IT VENDOR FOR JACK SPECIFICATIONS, COLOR CODING, LABELING REQUIREMENTS ETC. LABEL BOTH ENDS OF CABLE.
5. CCTV SYSTEM DESIGN AND EQUIPMENT SELECTIONS TO BE A DELEGATED DESIGN. COORDINATE WITH CCTV VENDORS SHOP DRAWINGS AND EQUIPMENT SELECTIONS FOR PROJECT SPECIFIC REQUIREMENTS. ELECTRICAL CONTRACTOR TO PROVIDE ALL ROUGH-INS, WIRING, AND RACEWAYS REQUIRED.
6. FIRE ALARM SYSTEM DESIGN AND EQUIPMENT SELECTIONS TO BE A DELEGATED DESIGN. COORDINATE WITH FIRE ALARM VENDORS SHOP DRAWINGS AND EQUIPMENT SELECTIONS FOR PROJECT SPECIFIC REQUIREMENTS. ELECTRICAL CONTRACTOR TO PROVIDE ALL ROUGH-INS, WIRING, AND RACEWAYS REQUIRED.
7. ACCESS CONTROL SYSTEM DESIGN AND EQUIPMENT SELECTIONS TO BE A DELEGATED DESIGN. COORDINATE WITH ACCESS CONTROL VENDORS SHOP DRAWINGS AND EQUIPMENT SELECTIONS FOR PROJECT SPECIFIC REQUIREMENTS. ELECTRICAL CONTRACTOR TO PROVIDE ALL ROUGH-INS, WIRING, AND RACEWAYS REQUIRED.

 # KEYED NOTES:

1. INCLUDE IN BID AN ALLOWANCE TO FURNISH AND INSTALL FLOOR POKE THRU AND ASSOCIATED WIRING & CONDUIT RUNS FOR FLOOR FURNITURE FEED IN ADDITION TO WALL FEED. COORDINATE LOCATION IN FIELD WITH FURNITURE VENDOR.
2. DATA FOR COPIER / PRINTER. COORDINATE ACTUAL LOCATION IN FIELD WITH OWNER.
3. COORDINATE DATA JACK MOUNTING HEIGHT AND LOCATION FOR TV WITH OWNERS AV INSTALLER.
4. PROVIDE (2) 3" EMPTY CONDUITS WITH DRAG LINE DOWN TO ELECTRICAL SERVICES ROOM FOR LOW VOLTAGE USE.

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RYE, NY 10580

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SECOND FLOOR SYSTEMS PLAN

Project No.	Scale
192311093	1/8" = 1'-0"
Date	Drawing No.
2024.04.03	E-302

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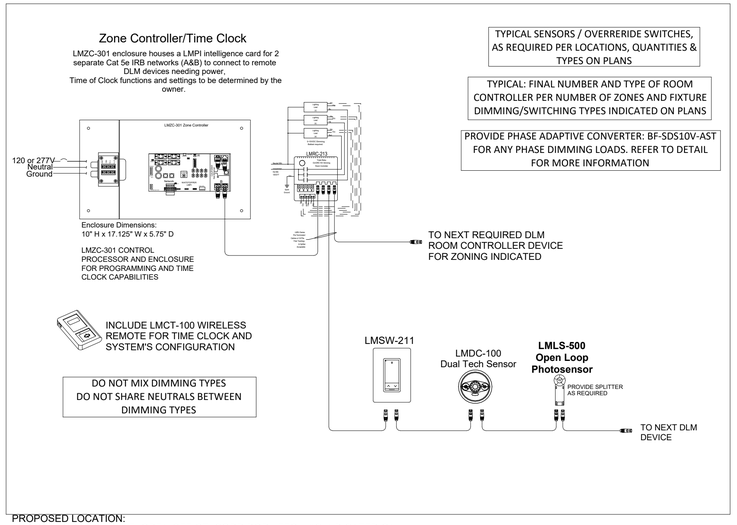
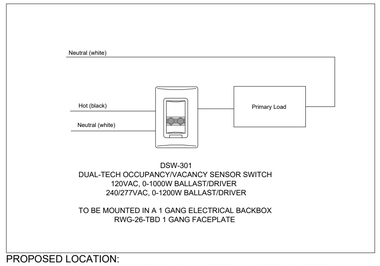
ORIGINAL SHEET - ANSI D

TYPICAL NETWORKED MULTI-ZONE DISTRIBUTED SOLUTION
LMZC-301 ZONE CONTROLLER FOR TIME CONTROL CAPABILITIES



PROPOSED LOCATION:
TYPICAL FOR VESTIBULE, OPEN OFFICE, CORRIDOR , ETC... AS INDICATED ON PLAN

TYPICAL (1) ZONE STANDALONE SPACE (NON-DIMMING) - LINE VOLTAGE SENSOR/SWITCH

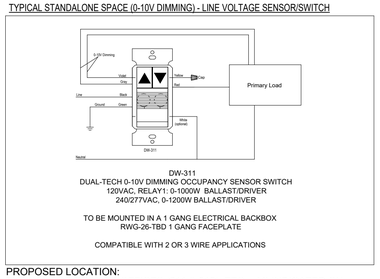


DSW-301
DUAL-TECH OCCUPANCY/VACANCY SENSOR SWITCH
120VAC, 0-1000W BALLAST/DRIVER
240/277VAC, 0-1200W BALLAST/DRIVER

TO BE MOUNTED IN A 1 GANG ELECTRICAL BACKBOX
RWG-26-TBD 1 GANG FACEPLATE

PROPOSED LOCATION:
TYPICAL FOR PRIVATE BATHROOMS, JANITORS CLOSET, CLOSET(S), IT ROOM , ETC... AS INDICATED ON PLAN

TYPICAL STANDALONE SPACE (0-10V DIMMING) - LINE VOLTAGE SENSOR/SWITCH



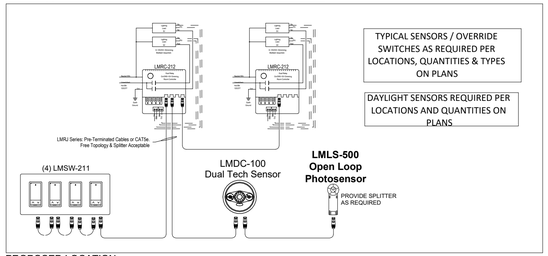
DW-311
DUAL-TECH 0-10V DIMMING OCCUPANCY SENSOR SWITCH
120VAC, RELAY1: 0-1000W BALLAST/DRIVER
240/277VAC, 0-1200W BALLAST/DRIVER

TO BE MOUNTED IN A 1 GANG ELECTRICAL BACKBOX
RWG-26-TBD 1 GANG FACEPLATE

COMPATIBLE WITH 2 OR 3 WIRE APPLICATIONS

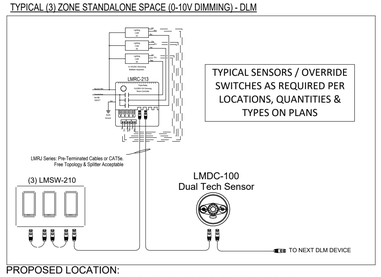
PROPOSED LOCATION:
TYPICAL FOR PRIVATE OFFICES (211 & 212), ETC... AS INDICATED ON PLAN

TYPICAL (4) ZONE STANDALONE SPACE (0-10V DIMMING) W/ DAYLIGHT SENSING



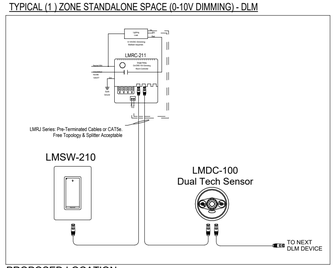
PROPOSED LOCATION:
TYPICAL FOR MULTIPURPOSE MEETING ROOM , ETC... AS INDICATED ON PLAN

TYPICAL (3) ZONE STANDALONE SPACE (0-10V DIMMING) - DLM



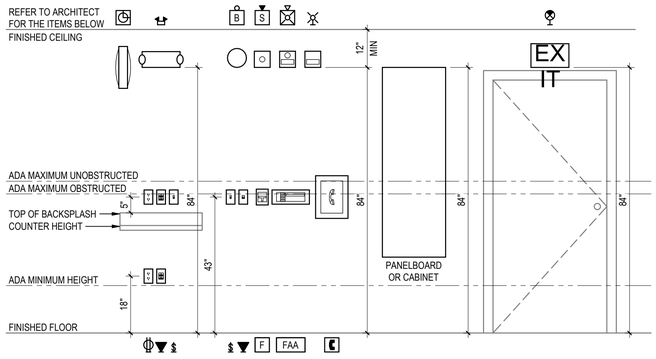
PROPOSED LOCATION:
TYPICAL FOR SHELL SPACE , ETC... AS INDICATED ON PLAN

TYPICAL (1) ZONE STANDALONE SPACE (0-10V DIMMING) - DLM



PROPOSED LOCATION:
TYPICAL FOR PRIVATE OFFICE, KITCHENETTE, CONFERENCE ROOM, MENS/WOMENS RESTROOMS, LOCKER ROOM, ETC... AS INDICATED ON PLAN

2 LIGHTING CONTROL DETAILS 1 0F 2
E-501 N.T.S.



1 TYPICAL MOUNTING HEIGHTS
E-501 1/2" = 1'-0"

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DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
ELECTRICAL DETAILS 1 OF 2

Project No.	Scale
192311093	As indicated
Date	Drawing No.
2024.04.03	E-501

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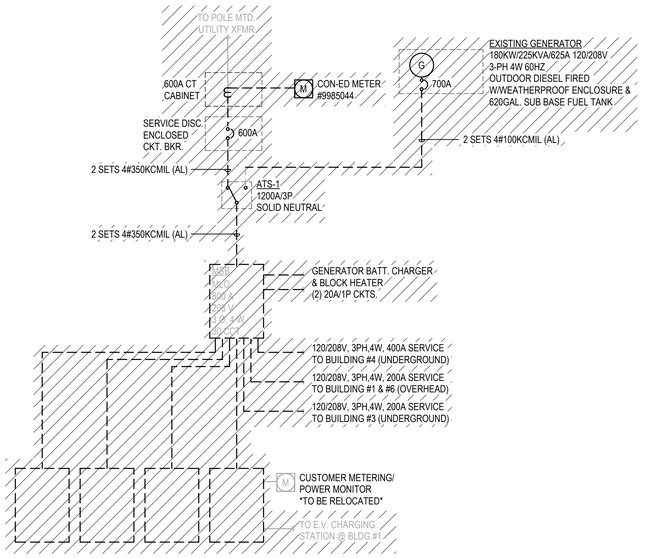
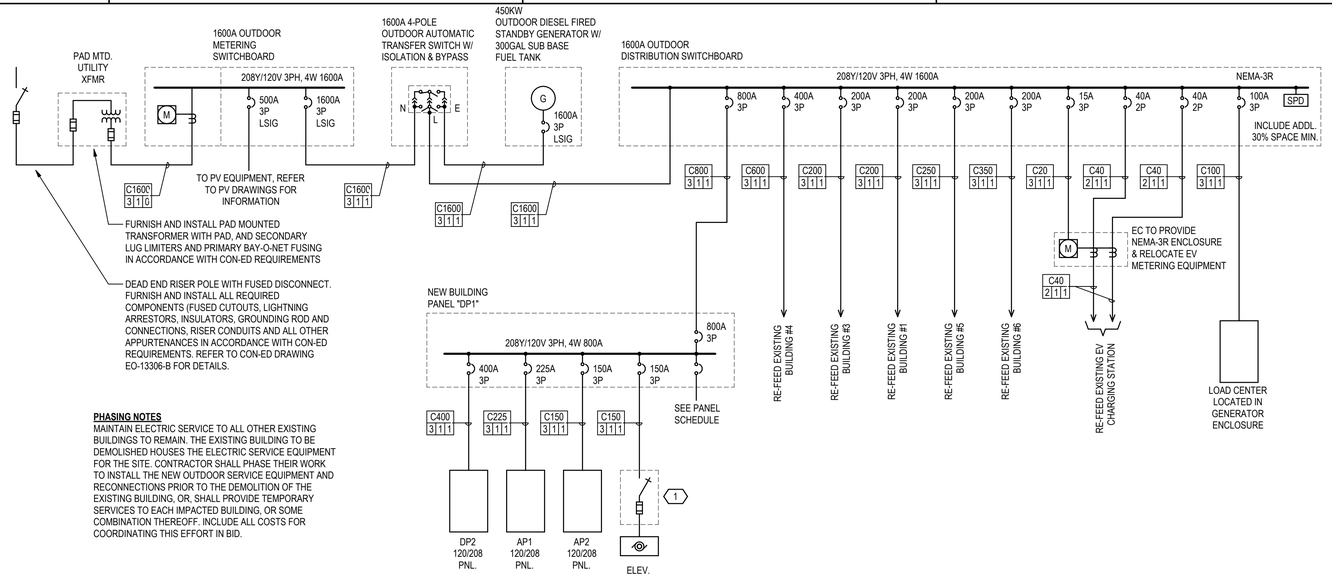


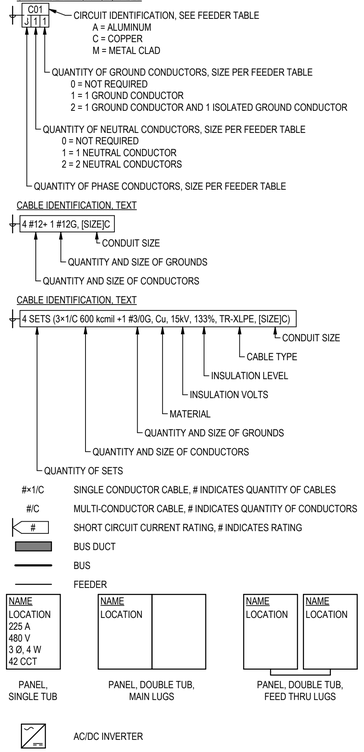


PHASING NOTES
MAINTAIN ELECTRIC SERVICE TO ALL OTHER EXISTING BUILDINGS TO REMAIN. THE EXISTING BUILDING TO BE DEMOLISHED HOUSES THE ELECTRIC SERVICE EQUIPMENT FOR THE SITE. CONTRACTOR SHALL PHASE THEIR WORK TO INSTALL THE NEW OUTDOOR SERVICE EQUIPMENT AND RECONNECTIONS PRIOR TO THE DEMOLITION OF THE EXISTING BUILDING, OR, SHALL PROVIDE TEMPORARY SERVICES TO EACH IMPACTED BUILDING, OR SOME COMBINATION THEREOFF. INCLUDE ALL COSTS FOR COORDINATING THIS EFFORT IN BID.

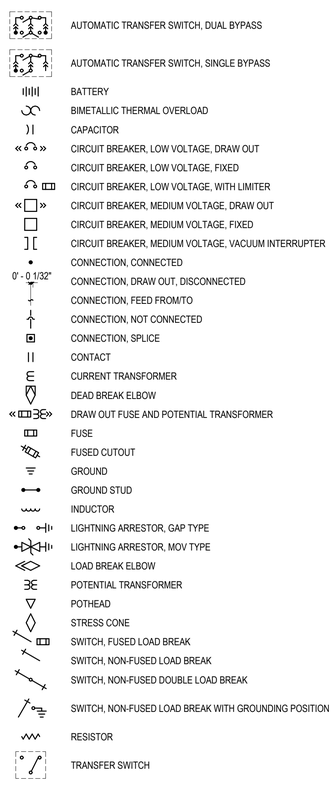
1 EXISTING ELECTRIC SERVICE RISER DIAGRAM - DEMO
E-601 N.T.S.

2 ELECTRICAL ONE-LINE DIAGRAM - NEW WORK
E-601 N.T.S.

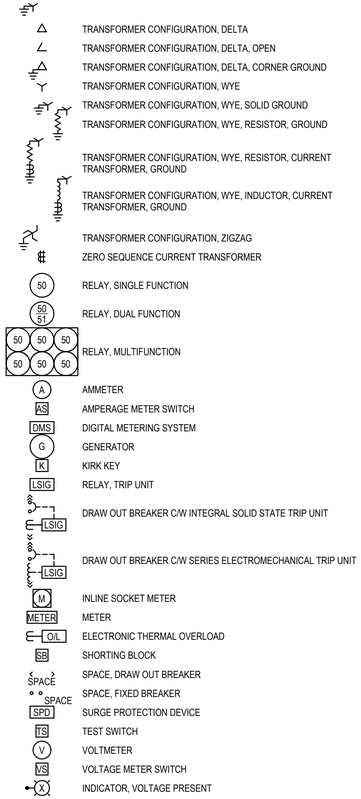
ELECTRICAL SCHEMATICS



ELECTRICAL SCHEMATICS



ELECTRICAL SCHEMATICS



 # KEYED NOTES:
1. BUSSMAN #PS1T20R1KGN1BF3 (OR EQUAL) ENCLOSED ELEVATOR DISCONNECTING MEANS WITH SHUNT TRIP, MECHANICALLY INTERLOCKED AUX. STATUS CONTACTS, FIRE ALARM INTERFACE RELAY AND POWER SUPERVISION RELAY. HANDLE TO BE PADLOCKABLE OFF. FUSE RATING TO SUIT SELECTED ELEVATOR SPECIFICATIONS. PROVIDE SHUNT TRIP CONTROL WIRING TO INTERFACE WITH FIRE ALARM SYSTEM, AND AUXILIARY N.O AND N.C. CONTACTS WIRED FOR INTERFACE WITH ELEVATOR BATTERY LOWERING DEVICE / CONTROLLER. PROVIDE ALL INTERCONNECTING POWER AND CONTROL WIRING AND CONDUIT AS REQUIRED FOR A CODE COMPLIANT INSTALLATION. COORDINATE INTERCONNECTIONS / TERMINATIONS AND CONTROL LOGIC/SEQUENCE WITH ELEVATOR INSTALLER.

COPPER FEEDERS

ID	NOMINAL CIRCUIT RATING	SETS	CONDUCTORS	GROUND	CONDUIT W/ N (4W)	CONDUIT W/O N (3W)
C20	20	1	#12	#12	3/4"	3/4"
C30	30	1	#10	#10	3/4"	3/4"
C40	40	1	#8	#10	3/4"	3/4"
C50	50	1	#6	#10	1"	3/4"
C60	60	1	#4	#10	1 1/4"	1"
C70	70	1	#4	#8	1 1/4"	1 1/4"
C80	80	1	#3	#8	1 1/4"	1 1/4"
C90	90	1	#2	#8	1 1/2"	1 1/4"
C100	100	1	#1	#8	1 1/2"	1 1/2"
C125	125	1	#1	#6	1 1/2"	1 1/2"
C150	150	1	#1/0	#6	2"	1 1/2"
C175	175	1	#2/0	#6	2"	2"
C200	200	1	#3/0	#6	2"	2"
C225	225	1	#4/0	#4	2 1/2"	2"
C250	250	1	250 kcmil	#4	3"	2 1/2"
C300	300	1	350 kcmil	#4	3"	2 1/2"
C350	350	1	500 kcmil	#3	3 1/2"	3"
C400	400	1	500 kcmil	#3	3 1/2"	3"
C450	450	2	#4/0	#2	2 1/2"	2"
C500	500	2	250 kcmil	#2	3"	2 1/2"
C600	600	2	350 kcmil	#1	3"	2 1/2"
C800	800	2	500 kcmil	#1/0	3 1/2"	3"
C900	900	3	350 kcmil	#2/0	3"	3"
C1000	1000	3	500 kcmil	#2/0	3 1/2"	3"
C1200	1200	4	350 kcmil	#3/0	3"	3"
C1600	1600	5	500 kcmil	#4/0	3 1/2"	3"
C2000	2000	6	500 kcmil	250 kcmil	3 1/2"	3"
C2500	2500	7	500 kcmil	350 kcmil	3 1/2"	3 1/2"
C3000	3000	8	500 kcmil	500 kcmil	4"	3 1/2"
C4000	4000	11	500 kcmil	500 kcmil	4"	3 1/2"

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Client/Project Logo
1660 1904 CITY OF RYE NY 1942

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES

Project No. 192311093
Scale N.T.S.
Date 2024.04.03
Drawing No. **E-601**

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ORIGINAL SHEET - ANSI D

LUMINAIRES

TYPE	DESCRIPTION	MANUFACTURER	CATALOG/SERIES #	ALTERNATE MANUFACTURERS	LAMP				INPUT		CONTROLS		COMMENTS/NOTES
					TYPE	LUMENS	CCT	CRI (MIN)	WATTS	VOLTAGE	TYPE	RANGE	
A1	2X2 LED TROFFER	FINELITE	HPR-SL-ANR-2X2-S-935-DCO-96LG-120-SC-FC-10%-CX-96LG-FLX	OR APPROVED EQUAL	LED	2993 lm	3500 K	90	24 VA	120 V	0-10V	10%	
A1E	2X2 LED TROFFER W/ INTEGRAL EM BATTERY PACK	FINELITE	HPR-SL-ANR-2X2-S-935-DCO-96LG-120-SC-FC-10%-CX-96LG-LGD10W-FLX	OR APPROVED EQUAL	LED	2993 lm	3500 K	90	24 VA	120 V	0-10V	10%	
B1	2X4 LED TROFFER	FINELITE	HPR-SL-ANR-2X4-B-935-DCO-96LG-120-SC-FC-10%-CX-96LG-FLX	OR APPROVED EQUAL	LED	3997 lm	3500 K	90	31 VA	120 V	0-10V	10%	
B1E	2X4 LED TROFFER	FINELITE	HPR-SL-ANR-2X4-B-935-DCO-96LG-120-SC-FC-10%-CX-96LG-LGD10W-FLX	OR APPROVED EQUAL	LED	3997 lm	3500 K	90	31 VA	120 V	0-10V	10%	
C1	2X2 LED FLAT PANEL FIXTURE	LITELINE	LEDP-22-9WH-0-10V	OR APPROVED EQUAL	LED	3860 lm	3500 K	80	30 VA	120 V	0-10V	10%	
D1	2X4 LED FLAT PANEL FIXTURE	LITELINE	LEDP-24-9WH-0-10V	OR APPROVED EQUAL	LED	3600 lm	3500 K	80	30 VA	120 V	0-10V	10%	
D1E	2X4 LED FLAT PANEL FIXTURE WITH EMERGENCY BATTERY PACK	LITELINE	LEDP-24-9WH-0-10V-EW	OR APPROVED EQUAL	LED	3600 lm	3500 K	80	30 VA	120 V	0-10V	10%	
E1	4-FOOT NOMINAL LED STRIP LIGHT WITH FULL FROSTED LENS	MERCURY	LW4-4-3800-35K-HTA-1%	OR APPROVED EQUAL	LED	3802 lm	3500 K	80	29 VA	120 V	0-10V	10%	
E1E	SAME AS TYPE E1 EXCEPT PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK	MERCURY	LW4-4-3800-35K-HTA-1%-EM12	OR APPROVED EQUAL	LED	3802 lm	3500 K	80	29 VA	120 V	0-10V	10%	
E2	2-FOOT NOMINAL LED STRIP LIGHT WITH FULL FROSTED LENS	MERCURY	LW4-2-2100-35K-HTA-1%	OR APPROVED EQUAL	LED	2106 lm	3500 K	80	17 VA	120 V	0-10V	10%	
E3E	SAME AS TYPE E1E EXCEPT PROVIDED WITH INTEGRAL LO / HI DIMMING OCCUPANCY SENSOR	MERCURY	LW4-4-3800-35K-HTA-1%-EM12-OX	OR APPROVED EQUAL	LED	3802 lm	3500 K	80	29 VA	120 V	0-10V	10%	
G1	SURFACE MOUNTED 4 FOOT VAPORTITE	XTRALIGHT	VTE4-5000L-40K-DIM-SFA	OR APPROVED EQUAL	LED	5268 lm	4000 K	80	44 VA	120 V	0-10V	10%	
G1A	45 DEGREE CORNER SURFACE MOUNTED 4 FOOT VAPORTITE	XTRALIGHT	VTE4-5000L-40K-DIM-SFA WITH 45B	OR APPROVED EQUAL	LED	5268 lm	4000 K	80	44 VA	120 V	0-10V	10%	
G1E	SURFACE MOUNTED 4 FOOT VAPORTITE	XTRALIGHT	VTE4-5000L-40K-DIM-SFA-EM	OR APPROVED EQUAL	LED	5268 lm	4000 K	80	44 VA	120 V	0-10V	10%	
G1P	PENDANT MOUNTED 4 FOOT VAPORTITE	XTRALIGHT	VTE4-5000L-40K-DIM-SFA WITH PND	OR APPROVED EQUAL	LED	5268 lm	4000 K	80	44 VA	120 V	0-10V	10%	
H	SURFACE MOUNT LED EXTERIOR WALLPACK	PARAFLEX	PFX-3123-38-27V-40K-B	OR APPROVED EQUAL	LED	5700 lm	4000 K	70	38 VA	120 V	0-10V	10%	
HE	SURFACE MOUNT LED EXTERIOR WALLPACK WITH EMERGENCY BATTERY BACKUP AND PHOTOCELL	PARAFLEX	PFX-3123-38-27V-40K-B-P-B	OR APPROVED EQUAL	LED	5700 lm	4000 K	70	38 VA	120 V	0-10V	10%	
J1	6" NOMINAL LED SQUARE DOWNLIGHT	FOCAL POINT	FLC44D-SO-1500L-UNV-LD1-BH-LC44-SDO-1000L-935K-DSS-VWFL-CD-WP	OR APPROVED EQUAL	LED	1000 lm	3500 K	90	19 VA	120 V	0-10V	10%	
J1E	6" NOMINAL LED SQUARE DOWNLIGHT WITH EMERGENCY BATTERY PACK	FOCAL POINT	FLC44D-SO-1500L-UNV-LD1-BH-EM-LC44EM-SDO-1000L-935K-DSS-VWFL-CD-WP	OR APPROVED EQUAL	LED	1000 lm	3500 K	90	19 VA	120 V	0-10V	10%	
X1	UNIVERSAL MOUNTING EXIT SIGN WITH FIELD SELECTABLE FACE AND CHEVRONS	XTRALIGHT	EMX003SDT	OR APPROVED EQUAL	LED	0 lm	0 K	0	1 VA	120 V	(none)	(none)	

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ISSUE FOR BID	MG	TR	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	WM	HSB	TR	2024.04.03
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
ELECTRICAL SCHEDULES

Project No.	Scale
192311093	
Date	Drawing No.
2024.04.03	**E-602**

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ORIGINAL SHEET - ANSI D

Stantec

Panel

Name: **DP1** | Volts: 208Y/120V | Mains Type: MCB | Type:
Location: ELECTRIC SERVICES 105 | Phases: 3 | Mains Rating: 800 A | AIC Rating: 65,000 AIC (min.)
Supply From: | Wires: 4 | MCB Rating: 800 A | Mounting: Surface
Serves: | | Lugs: Single Lugs | Enclosure: Type 1

Notes:

#	Description	Load	Trip	Poles	Type	Remarks
1	EWH-2	12300	45 A	3		
2	DUCT HEATER DH-1	18000	70 A	3		
3	PANEL AP1	56359	150 A	3		
4	PANEL AP2	24133	150 A	3		
5	PANEL DP2	123437	400 A	3		
6	ELEVATOR	28172	150 A	3		
7	FACP	0	20 A	1		
8						
9						
10						
11						
12	SPD / TVSS	--	--	3	--	

Total Conn. Load: 262.00 kVA
Total Amps: 727 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Electric Clothes Dryer	10000 VA	100.00%	10000 VA		
Elevator	28172 VA	100.00%	28172 VA	**Total Conn. Load:**	**261995 VA**
HVAC	180998 VA	100.00%	180998 VA	**Total Est. Demand:**	**256678 VA**
Lighting	5475 VA	125.00%	6843 VA	**Total Conn.:**	**727 A**
Motor	12146 VA	103.18%	12532 VA	**Total Est. Demand:**	**712 A**
Other	0 VA	0.00%	0 VA		
Power	3600 VA	100.00%	3600 VA		
Receptacle	23940 VA	70.89%	16970 VA		

Legend:
CB = Circuit Breaker C = HACR Rated F = Fused Switch G = GFCI H = HID Rated M = Motor Circuit Protection S = Shunt Trip # = See Notes † = Existing Circuit ‡ = Revised Circuit

Notes:

Stantec

Panel

Name: **AP1** | Volts: 208Y/120V | Mains Type: MCB | Type:
Location: ELECTRIC SERVICES 105 | Phases: 3 | Mains Rating: 225 A | AIC Rating: 22,000 AIC (min.)
Supply From: DP1 | Wires: 4 | MCB Rating: 225 A | Mounting: Surface
Serves: | | Lugs: Single Lugs | Enclosure: Type 1

Notes: 2 SECTION PANEL

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	ELEVATOR LIGHTS	15 A	1		0	720						1	20 A	RECEPTACLES RM 104,105,106,107	2
3	OHD-1	20 A	1				1176	360				1	20 A	RECEPTACLE	4
5	OHD-2	20 A	1						1176	360		1	20 A	RECEPTACLE	6
7	OHD-3	20 A	1		1176	360						1	20 A	RECEPTACLE	8
9	OHD-4	20 A	1				1176	360				1	20 A	RECEPTACLE	10
11	OHD-5	20 A	1						1176	720		1	20 A	RECEPTACLE	12
13	OHD-6	20 A	1		1176	1080						1	20 A	RECEPTACLE	14
15	OHD-7	20 A	1				1176	900				1	20 A	RECEPTACLE	16
17	OHD-8	20 A	1						1176	360		1	20 A	ELEVATOR SUMP PUMP	18
19	OHD-9	20 A	1		1176	720						1	20 A	RECEPTACLE	20
21	OHD-10	20 A	1				1176								22
23	LIGHTING	20 A	1						853						24
25	LIGHTING	20 A	1		494										26
27	GARAGE LIGHTING	20 A	1				756	0				3	30 A	PRESSURE WASHER	28
29	OUTDOOR RECEPTACLES	20 A	1						540	0	--	--	--	--	30
31	DRY SPRINKLER AIR COMPRESSOR	20 A	2		239	0					--	--	--	--	32
33	--	--	--	--			239	540				1	20 A	ELEVATOR SHAFT RECEPTACLES	34
35	FAN COILS FCU-1 AND FCU-2	20 A	2						200	1100		3	15 A	EUH-1	36
37	--	--	--	--	200	1100					--	--	--	--	38
39	CLOTHES DRYER RECEPTACLE	30 A	2				2500	1100			--	--	--	--	40
41	--	--	--	--					2500	1100		3	15 A	EUH-2	42
43	ECUH-1	15 A	3		1000	1100					--	--	--	--	44
45	--	--	--	--			1000	1100			--	--	--	--	46
47	--	--	--	--					1000	1321		3	20 A	GEF-1	48
49	ECUH-2	15 A	3		1000	1321					--	--	--	--	50
51	--	--	--	--			1000	1321			--	--	--	--	52
53	--	--	--	--					1000	1321		3	20 A	GSF-1	54
55	ECUH-3	15 A	3		1000	1321					--	--	--	--	56
57	--	--	--	--			1000	1321			--	--	--	--	58
59	--	--	--	--					1000						60
61	ECUH-4	15 A	3		1000										62
63	--	--	--	--			1000								64
65	--	--	--	--					1000						66
67	CLOTHES DRYER RECEPTACLE	30 A	2		2500										68
69	--	--	--	--			2500								70
71															72
73															74
75															76
77															78
79															80
81															82
83															84

Total Load: 18.10 kVA | 20.95 kVA | 17.32 kVA
Total Amps: 152 A | 176 A | 144 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Electric Clothes Dryer	10000 VA	100.00%	10000 VA		
HVAC	26925 VA	100.00%	26925 VA	**Total Conn. Load:**	**56359 VA**
Lighting	2103 VA	125.00%	2628 VA	**Total Est. Demand:**	**57219 VA**
Motor	12146 VA	103.18%	12532 VA	**Total Conn.:**	**156 A**
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	**159 A**
Power	0 VA	0.00%	0 VA		
Receptacle	7020 VA	100.00%	7020 VA		

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Notes:

Stantec

Panel

Name: **DP2** | Volts: 208Y/120V | Mains Type: MCB | Type:
Location: UTILITY RM 221 | Phases: 3 | Mains Rating: 400 A | AIC Rating: 65,000 AIC (min.)
Supply From: DP1 | Wires: 4 | MCB Rating: 400 A | Mounting: Surface
Serves: | | Lugs: Single Lugs | Enclosure: Type 1

Notes:

#	Description	Load	Trip	Poles	Type	Remarks
1	WTWHP-1 - RADIANT FLOOR HEAT PUMP 1 OF 2	18730	80 A	3		
2	WTWHP-2 - RADIANT FLOOR HEAT PUMP 2 OF 2	18730	80 A	3		
3	WCVRF-1 - WATER COOLED VRF HEAT PUMP 1 OF 2 CKT A	7926	40 A	3		
4	WCVRF-2 - WATER COOLED VRF HEAT PUMP 2 OF 2 CKT A	7926	40 A	3		
5	WCVRF-1 - WATER COOLED VRF HEAT PUMP 1 OF 2 CKT B	7926	40 A	3		
6	WCVRF-2 - WATER COOLED VRF HEAT PUMP 2 OF 2 CKT B	7926	40 A	3		
7	ERV-1	4760	20 A	3		
8	PUMP GWP-1	6304	35 A	3		
9	PUMP RWP-1	2810	15 A	3		
10	PUMP RP-1	528	15 A	1		
11	PUMP GWP-2	6304	35 A	3		
12	PUMP RWP-2	2810	15 A	3		
13	EWH-1	15000	60 A	3		
14	FAN COIL FCUS SECOND FL	2130	20 A	2		
15	EUH-3	3300	20 A	3		
16	FAN COIL FCUS SECOND FL	1714	20 A	2		
17	WTWHP-3	4306	35 A	2		
18	WTWHP-4	4306	35 A	2		
19						
20						

Total Conn. Load: 123.44 kVA
Total Amps: 343 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	123437 VA	100.00%	123437 VA		
				Total Conn. Load:	**123437 VA**
				Total Est. Demand:	**123437 VA**
				Total Conn.:	**343 A**
				Total Est. Demand:	**343 A**

Legend:
CB = Circuit Breaker C = HACR Rated F = Fused Switch G = GFCI H = HID Rated M = Motor Circuit Protection S = Shunt Trip # = See Notes † = Existing Circuit ‡ = Revised Circuit

Notes:

Stantec

Panel

Name: **AP2** | Volts: 208Y/120V | Mains Type: MCB | Type:
Location: UTILITY RM 221 | Phases: 3 | Mains Rating: 225 A | AIC Rating: 22,000 AIC (min.)
Supply From: DP1 | Wires: 4 | MCB Rating: 150 A | Mounting: Surface
Serves: | | Lugs: Single Lugs | Enclosure: Type 1

Notes: 2 SECTION PANEL

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	LIGHTING	20 A	1		781	180						1	20 A	RECEPTACLE	2
3	LIGHTING	20 A	1				621	360				1	20 A	RECEPTACLE	4
5	LIGHTING	20 A	1						733	360		1	20 A	RECEPTACLE	6
7	LIGHTING	20 A	1		582	360						1	20 A	POWER	8
9	LIGHTING	20 A	1				665	180				1	20 A	RECEPTACLE	10
11	RECEPTACLE	20 A	1						1260	180		1	20 A	RECEPTACLE	12
13	HAND DRYER	20 A	1		1200	900						1	20 A	RECEPTACLES MECH RM	14
15	HAND DRYER	20 A	1				1200	900				1	20 A	RECEPTACLES SHELL SPACE	16
17	RECEPTACLE	20 A	1						1080	1260		1	20 A	RECEPTACLE	18
19	REFRIGERATOR	20 A	1		180	900						1	20 A	RECEPTACLE	20
21	RECEPTACLE	20 A	1				180	180				1	20 A	RECEPTACLE PRINTER/COPIER	22
23	RECEPTACLE	20 A	1						1440	180		1	20 A	RECEPTACLE PRINTER/COPIER	24
25	RECEPTACLE	20 A	1		1440	0						1	20 A	POWER	26
27	ROOF RECEPTACLES	20 A	1				360	0				1	20 A	POWER	28
29	EXHAUST FAN EF-1	15 A	1						336	540		1	20 A	RECEPTACLE	30
31	RECEPTACLES OFFICE 210	20 A	1		540	360						1	20 A	RECEPTACLE	32
33	RECEPTACLES OFFICE 209	20 A	1				540								34
35	RECEPTACLES OFFICE 208	20 A	1						540						36
37	RECEPTACLE CONF. 207	20 A	1		1440										38
39	RECEPTACLE	20 A	1				540								40
41	RECEPTACLE	20 A	1						540						42
43	HAND DRYER	20 A	1		1200										44
45															46
47															48
49															50
51															52
53															54
55															56
57															58
59															60
61															62
63															64
65															66
67															68
69															70
71															72
73															74
75															76
77															78
79															80
81															82
83															84

Total Load: 10.03 kVA | 5.68 kVA | 8.43 kVA
Total Amps: 87 A | 47 A | 74 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	336 VA	100.00%	336 VA		
Lighting	3374 VA	125.00%	4218 VA	**Total Conn. Load:**	**24133 VA**
Power	3600 VA	100.00%	3600 VA	**Total Est. Demand:**	**21500 VA**
Receptacle	16920 VA	79.55%	13460 VA	**Total Conn.:**	**67 A**
				Total Est. Demand:	**60 A**

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Notes:

Stantec

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Consultant

Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	MG	TR	2024.09.12
Issued	By	Appd	YYYY.MM.DD
	WM	HSB	TR	2024.04.03
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

STATE OF NEW YORK · HERBERT S BOCCARD · LICENSED PROFESSIONAL ENGINEER · 101221

Client/Project Logo

1660 1904 CITY OF RYE NY 1942

Client/Project

CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title

ELECTRICAL SCHEDULES

Project No. 192311093

Scale

Date 2024.04.03

Drawing No. **E-603**

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ORIGINAL SHEET - ANSI D

LEGEND

EXISTING	PROPOSED	DESCRIPTION
CONDUIT/CABLE INSTALLATION (• – INDICATES TYPE, SEE BELOW)		
		CABLE/WIRING WITHOUT CONDUIT
		REMOVE CABLE
		ABANDON CABLE
		REMOVE CABLE AND CONDUIT
		REMOVE CABLE, ABANDON CONDUIT
		CONDUIT, EXPOSED
<•>	<•>	CONDUIT, CONCEALED
UG•	UG•	CONDUIT, UNDERGROUND
[•]	[•]	CONDUIT, CONCRETE ENCASED
OH•	OH•	CABLE, OVERHEAD
GND	GND	CABLE, GROUND

CONDUIT/CABLE TYPES

E	E	ELECTRICAL (600V OR LESS)
L	L	LIGHTING (480V OR LESS)
C	C	COMMUNICATIONS
D	D	DATA
DC	DC	DIRECT CURRENT
T	T	TELEPHONE
FO	FO	FIBER OPTIC

		EQUIPMENT AS INDICATED
		EQUIPMENT TO BE REMOVED, UON
a x b	a x b	HANDHOLE, ELECTRICAL (a,b – SIZE IN.)
a x b	a x b	HANDHOLE, COMMUNICATIONS (a,b – SIZE IN.)
a x b	a x b	MANHOLE, ELECTRICAL (a,b – SIZE IN.)
a x b	a x b	MANHOLE, COMMUNICATIONS (a,b – SIZE IN.)
J a x b	J a x b	JUNCTION BOX, SQUARE (a,b – SIZE IN.)
J a x b	J a x b	JUNCTION BOX, ROUND (a,b – SIZE IN.)
		ELECTRICAL PANEL, 480Y/277V
		ELECTRICAL PANEL, 208Y/120V
		ELECTRICAL PANEL, 240/120V
		DISCONNECT SWITCH, FUSED
		DISCONNECT SWITCH, NON–FUSED
x	x	MOTOR (x – HORSEPOWER)

RECEPTACLES (x – RECEPTACLE TYPE) (n – NEMA CONFIGURATION, 5–20R UON)
GFI – GROUND FAULT INTERRUPTING
TVSS – TRANSIENT VOLTAGE SURGE SUPRESSION
WP – WEATHERPROOF

EXISTING	PROPOSED	DESCRIPTION
		SECURITY CAMERA
M	M	ELECTRICAL METER
		CURRENT TRANSFORMER
AF AT	AF AT	ENCLOSED CIRCUIT BREAKER (AF – FRAME SIZE, AT – TRIP CURRENT RATING)
AF AT	AF AT	CIRCUIT BREAKER (AF – FRAME SIZE, AT – TRIP CURRENT RATING)
AS AF	AS AF	FUSED SWITCH (AS – SWITCH CURRENT RATING, AF – FUSE CURRENT RATING)
G kVA kW	G kVA kW	GENERATOR (kVA – kVA RATING, kW – kW RATING)
N/A NL E x	N/A NL E x	AUTOMATIC TRANSFER SWITCH (x – CURRENT RATING)
		GROUND BAR
		GROUND
a b c	a b c	TRANSFORMER (a – PRIMARY VOLTAGE, b – SECONDARY VOLTAGE, c – kVA RATING)
		NORMALLY CLOSED CONTACT
		NORMALLY OPEN CONTACT

NOTES:
ALL SYMBOLS MAY NOT BE APPLICABLE FOR THIS PROJECT.

BRANCH CIRCUIT WIRING LEGEND

2–#12 & 1–#12 GND (1–1P–20A OR 1–1P–15A CB)

3–#12 & 1–#12 GND (3P–20A OR 3P–15A CB) OR 2–#12 & 1–#12 GND (2P–20A OR 2P–15A CB)

R1–15 — PANEL & CIRCUIT NO.

RECEPTACLE

ABBREVIATIONS

#	GAUGE
/c	CONDUCTOR
A	AMPERE (S)
AC	ALTERNATING CURRENT
ACD	AC DISCONNECT SWITCH
AFF	ABOVE FINISHED FLOOR
AF	AMP FRAME
AGL	ABOVE GRADE LEVEL
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ARC	ARC FAULT INTERRUPTER
AS	AMPERAGE OF SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BCW	BARE COPPER WIRE
BLDG	BUILDING
C,CDT	CONDUIT
CB,C/B	CIRCUIT BREAKER
CBX	COMBINER BOX
CKT	CIRCUIT
CLG	CEILING
CNTRL	CONTROL
COL	COLUMN
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DEM	DEMOLISH AND REMOVE
DS	DISCONNECT SWITCH
DWG	DRAWING
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EX	EXISTING TO REMAIN
FA	FIRE ALARM
FL	FLOOR
FBO	FURNISHED BY OTHERS
FRE	FIBER REINFORCED EPOXY
FT	FOOT, FEET
GEC	GROUNDED ELECTRODE CONDUCTOR
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GND,G,GRD	GROUND
HP	HORSEPOWER
HVAC	HEATING VENTILATION AIR CONDITIONING
IG	ISOLATED GROUND
IN	INCHES
kcmil	THOUSAND CIRCULAR MILS
kVA	KILOVOLT–AMPERE
kW	KILOWATT
kWH	KILOWATT HOUR
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUG ONLY
MTS	MANUAL TRANSFER SWITCH
N	NEUTRAL
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OH	OVERHEAD
P	POLE
PBO	PROVIDED BY OTHERS
PNL	PANEL
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE
PVC–RGS	POLYVINYL CHLORIDE COATED RIGID GALVANIZED STEEL
REC	RECEPTACLE
REL	REMOVE AND RELOCATE
RGS	RIGID GALVANIZED STEEL
SCH	SCHEDULE
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH(ES)
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
V	VOLT(S)
W	WATT
WP	WEATHERPROOF

NOTE:
ALL ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.

DEFINITION OF TERMS

1. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT SHALL BE UNDERSTOOD THAT "STANTEC CONSULTING SERVICES, INC." IS INTENDED.
2. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "OWNER" IS USED, IT SHALL BE UNDERSTOOD THAT "CITY OF RYE" IS INTENDED.
3. "WORK" SHALL BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND/OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
4. "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
5. "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS SHALL BE COMPLETE IN ALL RESPECTS.
6. "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
7. "APPROVED EQUAL" MEANS ANY EQUIPMENT OR MATERIAL WHICH, IN THE OPINION OF THE ENGINEER (AND ACCEPTED BY OWNER), IS EQUAL IN QUALITY, DURABILITY, APPEARANCE, STRENGTH, DESIGN, PERFORMANCE, PHYSICAL DIMENSIONS, AND ARRANGEMENT TO THE EQUIPMENT OR MATERIAL SPECIFIED AND WILL FUNCTION IN ACCORDANCE WITH THE GENERAL DESIGN.

SOLAR PV LEGEND

EXISTING	PROPOSED	DESCRIPTION
		SOLAR MODULE
	INV X	STRING # STRING BOUNDARY FOR INVERTER#X INVERTER #
	X	DC TO AC POWER INVERTER

NOTES:
ALL SYMBOLS MAY NOT BE APPLICABLE FOR THIS PROJECT.

GENERAL NOTES

1. ALL LABELING SHALL COMPLY WITH REQUIREMENTS OF NEC 690 AND UL, ANSI, IEEE, AND OSHA REQUIREMENTS. ALL LABELS SHALL COMPLY WITH ANSI Z535.4.
2. TEXT ON ALL LABELS SHALL BE OF ARIAL FONT. IT SHALL BE LEGIBLE AND CLEAR.
3. TEXT SIZE SHALL BE AS SHOWN BUT IN NO CASE TEXT SHALL BE SMALLER THAN ⅜" FOR TITLES (I.E. "WARNING") AND ³⁄₁₆" HIGH FOR DATA.
4. THE TONE OF THE BACKGROUND COLOR SHALL BE BRIGHT TO ATTRACT ATTENTION.
5. SUBMIT ALL LABEL STENCILS WITH DIMENSIONS TO ENGINEER PRIOR TO PURCHASE.
6. LABELS SHALL BE EITHER ENGRAVED, MACHINE PRINTED OR ELECTRO–PHOTO PLATED AND BE OF METALLIC OR PLASTIC CONSTRUCTION. SIGNAGE SHALL BE WEATHERPROOF, CORROSION PROOF, UV–STABILZED AND FADE RESISTANT.
7. LABELS SHALL BE SECURELY FASTENED TO SPECIFIED LOCATIONS BY USING A WEATHER PROOF & DURABLE ADHESIVE SUITABLE FOR THE MATERIAL OF THE LABEL & LOCATION.
8. THE LABELS SHALL BE POSTED AT THE LOCATIONS SPECIFIED. IF FOR REASONS OF REDUCED ACCESS OR SPACE, THE LABELS SHALL BE POSTED AT THE CLOSEST LOCATION THAT BEST SERVES THE INTENT OF THE LABEL. NOTIFY THE ENGINEER/SUPIVISOR IN SUCH A CASE BEFORE ATTACHING.
9. ALL LABELS SHALL COMPLY WITH THE FOLLOWING COLOR SCHEMES UNLESS SPECIFICALLY INDICATED:

LABEL	TEXT	BACKGROUND
INFORMATIONAL	BLACK	WHITE
UTILITY/CAUTION	BLACK	YELLOW
WARNING	WHITE	RED

10. THE CONTRACTOR/INSTALLER OF THE SOLAR PV SYSTEM OVER THE ROOF SHALL CONFORM TO OSHA REQUIREMENTS DURING THE CONSTRUCTION PHASE. JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR/INSTALLER.
11. REFER TO ELECTRICAL DRAWINGS FOR DETAILED PANEL INFORMATION ON THE SITE ELECTRICAL DISTRIBUTION SYSTEM.
12. IN CASE OF CONFLICT BETWEEN THE STRUCTURAL DRAWINGS AND THE ELECTRICAL DRAWINGS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
13. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS. THE CONTRACTOR/INSTALLER SHALL VERIFY ALL EXISTING BUILDING INFORMATION SHOWN (DIMENSIONS, ROOF TOP PROJECTIONS, ETC.) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATIONS OF THE PV SYSTEM.
14. IN CASE OF CONFLICT BETWEEN THE CONTRACT DRAWINGS AND THE SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
15. THE CONTRACTOR/INSTALLER SHALL VERIFY AND COORDINATE EXISTING OPENING, ROOF TOP UNITS, VENT PIPES...ETC. SHOWN ON DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR/INSTALLER'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO PERFORMING THE WORK.
16. ALL COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO CONTRACTOR IMPROPER INSTALLATION OF THE PV SYSTEM OR OTHER ITEMS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS SHALL BE AT THE CONTRACTOR/INSTALLER'S EXPENSE.
17. ALL CONSTRUCTION IS TO BE PERFORMED IN STRICT CONFORMANCE WITH ALL APPLICABLE TOWN, COUNTY & STATE AND/OR ANY OTHER GOVERNING BODY STANDARDS.
18. CONTRACTOR SHALL MEGGER ENTIRE SOLAR PV SYSTEM WITH 1000 VOLTS INSTRUMENT AND SUBMIT RESULTS TO THE ENGINEER PRIOR TO COMMISSIONING. SEE ELECTRICAL SPECIFICATIONS FOR MORE INFORMATION ON TESTING.
19. COMMISSIONING SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARDS AND NETA STANDARD.
20. ALL MODULES SHALL BE BOLTED DIRECTLY TO THE ROOF TOP RACKING SYSTEM AND TO THE CANOPY PURLINS USING UL LISTED HARDWARE STACK. HARDWARE STACK SHALL INCLUDE PRE–APPLIED LOCKING MECHANISM (LIKE ND PATCH OR EPOXY COATING ON BOLTS AND OR NUTS) TO AVOID MODULE SEPARATION.
21. CONTRACTOR SHALL CONTACT THE ROOF MANUFACTURER / ROOF WARRANTY HOLDER TO OBTAIN DETAILS OF THE SLIP SHEETS AND SOLAR SYSTEM INSTALLATION PROCEDURES TO BE FOLLOWED TO MAINTAIN EXISTING ROOF WARRANTY WITH NO IMPACT.
22. CONTRACTOR SHALL OBTAIN WRITTEN CONFIRMATION THAT THE EXISTING ROOF WARRANTY WILL NOT BE VOIDED DUE TO THE INSTALLATION OF SOLAR PANELS SHOULD BE PROVIDED BY ROOF WARRANTY PROVIDER(S). IN ADDITION, ROOF WARRANTY PROVIDER(S) SHOULD PROVIDE ANY ADDITIONAL CONSTRUCTION PHASE AND MAINTENANCE REQUIREMENTS AS WELL CONDUCT PRE AND POST INSTALLATION INSPECTION OF THE ROOFS.
23. BALLAST BLOCKS SHALL COMPLY WITH ASTM C1491–14 AND C90–16A WITH MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. CONTRACTOR SHALL PROVIDE STAMPED 3RD PARTY LAB TEST CERTIFICATE TO CONFIRM THAT THIS REQUIREMENT IS MET.
24. ALL EXPOSED EQUIPMENT / MATERIAL SHALL BE UV RESISTANT AND RATED FOR SUNLIGHT EXPOSURE AND OUTDOOR USE. ALL EQUIPMENT TO BE UL LISTED/CERTIFIED.
25. SPLICING SHALL NOT BE ALLOWED FOR AC OR DC CONDUCTORS OF PV SYSTEM.
26. CONTRACTOR SHALL PROVIDE AND INSTALL GUARD RAILS FOR FALL PROTECTION PER OSHA REQUIREMENTS (1910.29 – FALL PROTECTION SYSTEMS AND FALLING OBJECT PROTECTION–CRITERIA AND PRACTICES.| OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA.GOV)). THE GUARD RAILS SHALL BE ATLEAST 42 INCHES HIGH AND COMPLY WITH ALL OSHA REQUIREMENTS. GUARD RAILS ARE NOT REQUIRED IF THERE ARE EXISTING PARAPET WALLS THAT EXCEED 42" HEIGHT.
27. ALL LABELING SHALL COMPLY WITH REQUIREMENTS OF NEC 690 AND UL, ANSI, IEEE, AND OSHA REQUIREMENTS. ALL LABELS SHALL COMPLY WITH ANSI Z535.4.
28. CONTRACTOR SHALL CONDUCT 3RD PARTY CAPACITY TESTING BASED ON THE CAPACITY TESTING PROTOCOL AS SET FORTH IN ASTM E2848–13 AND ASTM E2939–13 ASTM REQUIREMENTS AND MEET CUSTOMER'S MINIMUM CAPACITY TEST REQUIREMENTS.
29. CONTRACTOR TO PROVIDE ARC FLASH CALCULATIONS, SHORT CIRCUIT CALCULATIONS AND COORDINATION STUDY REPORTS TO SYSTEM OWNER. ALL REPORTS NEED TO BE STAMPED BY PE.
30. CONTRACTOR SHALL CHECK FOR ANY PRODUCT RECALL NOTICES THAT MIGHT IMPACT THE PROPOSED ELECTRICAL EQUIPMENT PRIOR TO PROCUREMENT & CONSTRUCTION.
31. CONTRACTOR IS REQUIRED TO PROVIDE ANY ADDITIONAL PROTECTIVE RELAYS AND/OR EQUIPMENT REQUIRED FOR INTERCONNECTION BY THE UTILITY (CON EDISON).

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	ML	MK	2024.09.12
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	CEH Dwn.	PK Dsgn.	AD Chkd.	YYYY.MM.DD

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STATE OF NEW YORK · MICHAEL J. KALB · 086690 · LICENSED PROFESSIONAL ENGINEER

Client/Project Logo

1660 1904 CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
Electrical Legend, Notes

Project No.	Scale
192311093	AS SHOWN
Date	Drawing No.
2024.05.24	PV-001

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GENERAL NOTES AND SPECIFICATIONS

A. PROVIDE ALL MATERIALS LABOR, EQUIPMENT AND SERVICES AND PERFORM ALL OPERATIONS IN CONNECTION WITH THE ELECTRICAL WORK. IT IS THE INTENT THAT THESE DRAWINGS PROVIDE THE WORK REQUIRED FOR AN ELECTRICAL INSTALLATION THAT IS COMPLETE IN EVERY RESPECT, READY FOR OPERATION.

B. THE DRAWINGS, AND GENERAL REQUIREMENTS CONTAINED IN THE CONTRACT, GOVERN THIS WORK. WHERE ITEMS OF GENERAL CONDITIONS ARE REPEATED HEREIN, IT IS INTENDED TO QUALIFY OR TO CALL PARTICULAR ATTENTION TO THEM; IT IS NOT INTENDED THAT ANY OTHER PARTS OF THE GENERAL CONDITIONS SHALL BE ASSUMED TO BE OMITTED.

C. ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES AND THE REQUIREMENTS OF ANY OTHER AUTHORITIES HAVING JURISDICTION. ALL MATERIAL AND EQUIPMENT SHALL BE UL LISTED AND SHALL BEAR THE UL INSPECTION LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED. AT THE COMPLETION OF THE WORK, SECURE CERTIFICATES OF APPROVAL FROM THE VARIOUS AUTHORITIES HAVING JURISDICTION AND DELIVER SAME TO THE ENGINEER AND THE OWNER.

D. ALL WORK SHALL COMPLY WITH NECA STANDARD OF INSTALLATION (PUBLISHED BY THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION) AND NFPA 70 – NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE SAFETY STANDARDS. COMPLY WITH APPLICABLE STANDARDS THE OWNER HAS DEVELOPED AS THEY PERTAIN TO THIS WORK.

E. PROCURE AND PAY FOR ALL CERTIFICATES, FEES, TESTS, INSPECTIONS, BONDS, DEPOSITS, AND ESCROW ACCOUNTS, REQUIRED FOR COMPLETE INSTALLATION OF THE WORK. GIVE ALL NOTICES REQUIRED BY LAW, ORDINANCES, OR THE RULES AND REGULATIONS OF THE VARIOUS AUTHORITIES. COMPLY WITH ALL ORDERS OF THE LOCAL DEPARTMENT OF BUILDINGS, COUNTY DEPARTMENT OF HEALTH, FIRE MARSHAL, ETC. DELIVER TO THE CLIENT ALL PERMITS AND CERTIFICATES OF APPROVAL ISSUED BY ALL TOWN, COUNTY, AND STATE AGENCIES HAVING JURISDICTION IN CONNECTION WITH THIS WORK, BEFORE THE CERTIFICATE FOR THE FINAL PAYMENT IS ISSUED.

F. NO WORK SHALL BE CONSIDERED COMPLETE UNTIL TESTS HAVE BEEN PERFORMED AND THE AUTHORITIES HAVING JURISDICTION HAVE EXAMINED, INSPECTED AND APPROVED THE TESTS AND THE WORK. PROVIDE ALL CONTROLLED INSPECTIONS CONTROLLED REQUIRED BY THE REGULATIONS OF TOWN, COUNTY, AND STATE. THE CONTROLLED INSPECTIONS SHALL BE MADE BY AN INSPECTOR MEETING THE PROFESSIONAL REQUIREMENTS SET FORTH BY STATE AND LOCAL LAWS AND SHALL BE CARRIED OUT IN ACCORDANCE WITH APPLICABLE TOWN, COUNTY, AND STATE BUILDING CODES.

G. TAKE OUT ALL NECESSARY INSURANCE, FREE OF EXTRA CHARGE AND AGREE TO INDEMNIFY AND SAVE HARMLESS THE OWNER, AGAINST LOSS OR EXPENSE.

H. THE DRAWINGS DO NOT UNDERTAKE TO ILLUSTRATE OR SET FORTH EVERY ITEM NECESSARY FOR THE WORK, AS IT IS ASSUMED THAT WITH THIS BID SUBMISSION, THE CONTRACTOR ACKNOWLEDGES THAT HE IS EXPERT IN THE SEVERAL LINES OF THE WORK AND IS CAPABLE OF INTERPRETING THEM. WHERE NO SPECIFIED MANUFACTURER OR QUALITY OF MATERIAL IS GIVEN, AN INDUSTRY STANDARD ARTICLE AS APPROVED BY THE ENGINEER SHALL BE FURNISHED.

I. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, CONDUITS, PANELS, FIXTURES, ETC. THE LOCATION OF ALL ITEMS SHOWN THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED ON SITE AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.

J. MAINTAIN AND PROTECT ALL EQUIPMENT, MATERIALS AND TOOLS FROM LOSS OR DAMAGE FROM ALL CAUSES UNTIL FINAL ACCEPTANCE BY THE OWNER.

K. IT IS REQUIRED THAT THE WORK INDICATED BE CARRIED OUT WITH A MINIMUM OF INTERFERENCE TO THE ESTABLISHED ROUTINE OF THE EXISTING SITE, AND THAT ALL WORK BE PERFORMED WITHIN THE REQUIRED CONTRACT TIME. ANY WORK NECESSARY TO PERFORMED AFTER REGULAR WORKING HOURS, SHALL BE PERFORMED WITHOUT ADDITIONAL EXPENSE TO THE CLIENT.

L. THE OWNER SHALL BE NOTIFIED, IN WRITING, WHEN INTERRUPTION OF THE PRESENTLY MAINTAINED SERVICES, MECHANICAL, ELECTRICAL OR OTHERWISE IS REQUIRED. WRITTEN PERMISSION SHALL BE OBTAINED FROM THE OWNER PRIOR TO COMMENCING WITH THE SHUT–DOWN.

M. PROVIDE ALL NECESSARY TRAILERS, EXTENSION CORDS AND LAMPS, TO PROVIDE TEMPORARY LIGHT AND POWER FOR THE PROPER EXECUTION OF ALL WORK.

N. PROVIDE ALL SCAFFOLDING, RIGGING, HOISTING, AND SERVICES NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES OF ANY EQUIPMENT AND APPARATUS, FURNISHED. REMOVE SAME FROM PREMISES WHEN NO LONGER REQUIRED.

O. ALL WORK SHOWN ON THE DRAWINGS THAT IS NOT SPECIFICALLY INDICATED AS BEING EXISTING SHALL BE ASSUMED TO BE NEW.

P. UL RE–CERTIFICATION SHALL BE PROVIDED TO EQUIPMENT IN CASE OF FIELD MODIFICATIONS.

Q. CONTRACTOR TO SUBMIT SUPPORTING DEVICES SUCH AS CABLE TIES TO ENGINEER (AND OWNER) FOR REVIEW & APPROVAL.

1.1 CUTTING, PATCHING AND SEALING

A. CUTTING, ROUGH AND FINISHED PATCHING FOR THE INSTALLATION OF THE ELECTRICAL WORK SHALL BE INCLUDED IN THE BID. PROPERLY CLOSE AND PATCH HOLES AND OPENINGS IN NEW AND EXISTING FLOOR, WALL, CEILING & PARKING LOT SURFACES RESULTING FROM THE ALTERATION WORK. MATCH ADJACENT UNDISTURBED SURFACES.

B. ALL HOLES OR VOIDS CREATED BY THE ELECTRICAL CONTRACTOR TO EXTEND CONDUIT THROUGH FIRE RATED FLOORS AND WALLS SHALL BE SEALED WITH AN INTUMESCENT MATERIAL CAPABLE OF EXPANDING UP TO 8 TO 10 TIMES WHEN EXPOSED TO TEMPERATURES OF 250 DEGREES F. IT SHALL HAVE ICBO, BOCAI AND SBCCI (NRB 243) APPROVED RATINGS TO 3 HOURS PER ASTM E–814 (UL 1479) USING 3M FIRE BARRIER CAULK, PUTTY, STRIP AND SHEET FORMS.

1.2 BUILDING PENETRATIONS

A. CONDUITS PASSING THROUGH CONCRETE OR MASONRY WALLS OR CONCRETE FLOORS SHALL BE PROVIDED WITH PVC PIPE SLEEVES, SLEEVES SHALL NOT BE INSTALLED IN STRUCTURAL MEMBERS EXCEPT WHERE SPECIFICALLY INDICATED OR APPROVED. EACH SLEEVE SHALL EXTEND THROUGH ITS RESPECTIVE WALL, FLOOR. AND SHALL BE CUT FLUSH WITH EACH SURFACE. UNLESS OTHERWISE INDICATED, SLEEVES SHALL BE OF SUCH SIZE AS TO PROVIDE A MINIMUM OF 1/4 INCH CLEARANCE BETWEEN THE BARE CONDUIT AND SLEEVE IN NON–FIRE RATED WALLS AND FLOORS SHALL BE CAULKED AND SEALED WITH SILICONE, IN FIRE RATED WALLS AND FLOORS, THE SPACE SHALL BE FIRESTOPPED AS SPECIFIED IN SECTION 1.1. CONDUITS PASSING THROUGH WALL WATERPROOFING MEMBRANE SHALL BE SEALED WITH A MODULAR MECHANICAL TYPE SEALING ASSEMBLY (LINK–SEAL) AND THE PENETRATION SHALL BE INCREASED AS RECOMMENDED BY THE MANUFACTURER. AFTER THE SEAL ASSEMBLY IS PROPERLY POSITIONED, TIGHTENING OF THE BOLT SHALL CAUSE THE RUBBER SEALING ELEMENTS TO EXPAND AND PROVIDE A WATERTIGHT SEAL BETWEEN THE CONDUIT AND THE PENETRATION.

1.3 TESTS

A. WIRE AND CABLE: PERFORM INSULATION RESISTANCE AND CONTINUITY TESTS FOR ALL CONDUCTORS. THESE SHALL BE COMPLETED PRIOR TO ENERGIZING. INVESTIGATE AND TAKE REMEDIAL ACTION WHEN CONTINUITY VALUES EXCEED 1.0 OHM AND/OR INSULATION RESISTANCE TESTS LESS THAN 5 MEGAOHMS.

B. GROUND RESISTANCE TESTS: RESISTANCE OF THE ELECTRICAL SYSTEM GROUNDING SHALL BE TESTED TO GROUND AT THE MAIN GROUND ELECTRODE CONNECTION AND AT THE CONNECTION TO THE BUILDING STEEL GROUND TO ENSURE THAT GROUND RESISTIVITY VALUES DO NOT EXCEED 25 OHMS. IF THE VALUES EXCEED 25 OHMS, NOTIFY THE ENGINEER.

1.4 GROUNDING

A. COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION, NEC 2017, UL AND IEEE STANDARDS. SIZE GROUND CONDUCTORS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE EXCEPT WHERE LARGER SIZES ARE INDICATED. ALL GROUND CONDUCTORS SHALL BE COPPER AND NOT SMALLER THAN #12 AWG. PROVIDE A COMPLETE ASSEMBLY OF MATERIALS REQUIRED FOR GROUNDING AND BONDING.

B. GROUNDING BUSHINGS SHALL BE HOT–DIPPED GALVANIZED BODY, MOLDED PHENOLIC INSULATION, RATED AT 150 DEG C. WITH COPPER–TINNED LAY–IN LUG. PROVIDE FOR ALL INCOMING AND OUTGOING CONDUITS TO THE DISTRIBUTION EQUIPMENT.

C. GROUND RODS SHALL BE UL 467 LISTED STEEL CORE, COPPER BONDED TYPE, HIGH STRENGTH STEEL ALLOY CORE WITH MINIMUM 10 MILS OF COPPER COATING AND CONICAL POINT WITH CHAMFER EDGE AT TOP. DRIVING HEADS HALL BE USED TO PROTECT TOPS OF RODS DURING DRIVING. MINIMUM SIZE ROD SHALL BE 3/4 INCH DIAMETER AND 10 FOOT LONG. GROUND RODS SHALL BE VERTICALLY DRIVEN TO THEIR FULL LENGTH BELOW DESIGN ELEVATION WITH TOPS 12" BELOW SUB–GRADE.

D. GROUND CONNECTORS FOR CONNECTING CABLE TO PIPE SHALL BE HIGH COPPER ALLOY OR BRONZE FITTINGS. PROVIDE AN OFFSET STEEL TONGUE FOR CONNECTIONS TO STEEL AND A DRILLED TONGUE FOR CONNECTION TO COPPER BUS BAR.

E. GROUNDING TEST SHALL BE 10 INCH NPS BY 24 INCH LONG CLAY TILE PIPE WITH BELLED END AND GROUND ROD. PRECAST 3000 PSI CONCRETE COVER WITH 1 INCH DIAMETER HOLE IN CENTER AND 24" X 24" X 14" GAGE STEEL MESH SET FLUSH WITH GRADE.

E. PARTS OF THE ELECTRICAL INSTALLATION TO BE GROUNDED AND BONDED SHALL INCLUDE BUT NOT BE LIMITED TO ELECTRICAL EQUIPMENT, RACEWAYS, BOXES, CABINETS AND OTHER NON–CURRENT CARRYING METAL PARTS OF THE WIRING SYSTEM, METAL CONDUIT, SWITCHGEAR, HOUSING AND NEUTRALS OF TRANSFORMERS, LIGHTING FIXTURES, PANEL DEVICES, FENCES AROUND ELECTRICAL EQUIPMENT AS APPLICABLE TO EQUIPMENT INSTALLED ON THIS PROJECT.

F. USE EXOTHERMIC WELDING PROCESS FOR UNDERGROUND, PERMANENTLY CONCEALED AND INACCESSIBLE CONNECTIONS TO FORM SOLID METAL JOINTS. MAKE ACCESSIBLE GROUND CONNECTIONS WITH MECHANICAL PRESSURE TYPE GROUND CONNECTIONS UNLESS OTHERWISE NOTED.

G. APPLY CORROSION–RESISTANT FINISH TO FIELD–CONNECTIONS, BURIED METALLIC GROUNDING AND BONDING PRODUCTS, AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED, WHICH ARE SUBJECTED TO CORROSIVE ACTION.

H. PV MODULE EQUIPMENT GROUNDING CONNECTION SHALL BE INSTALLED IN ACCORDANCE WITH MODULE AND RACKING MANUFACTURER'S GUIDELINES AND LISTING. MODULE FRAME GROUNDING HARDWARE SHALL BE LISTED TO UL1703 AND SPECIFIED BY MODULE MANUFACTURER AS ACCEPTABLE FOR USE WITH MODULE MODEL. WEEBS, OR EQUIVALENT, WILL BE CONSIDERED AN ACCEPTABLE MEANS OF GROUNDING BUT THEIR USE SHALL BE AN APPROVED USE BY BOTH RACKING AND MODULE MANUFACTURER.

I. COMPRESSION CONNECTORS SHALL BE PURE WROUGHT COPPER WITH NO LESS THAN 99% CONDUCTIVITY. INSTALLATION SHALL BE MADE WITH COMPRESSION TOOL AND DIE SYSTEM.

1.5 CONDUITS AND FITTINGS

A. ALL CONDUITS SHALL HAVE EXPANSION JOINTS AS REQUIRED BY CODE. ROOFTOP CONDUITS SHALL HAVE EXPANSION JOINTS AT EVERY 100 FEET INTERVALS.

B. ABOVE GROUND, SUBJECT TO PHYSICAL DAMAGE: RMC, GALVANIZED RIGID STEEL, MEETING THE REQUIREMENTS OF ANSI C80.1. THREADED FITTINGS MEETING NEMA FB 1.

C. ABOVE GROUND, ROOFTOP: IMC, GALVANIZED STEEL, MEETING THE REQUIREMENTS OF ANSI C80.6. MINIMUM CONDUIT SIZE OF 1/2". THREADED FITTINGS MEETING NEMA FB 1.

D. ABOVE GROUND, INTERIOR, NOT SUBJECT TO PHYSICAL DAMAGE: EMT, GALVANIZED STEEL, MEETING THE REQUIREMENTS OF ANSI C80.3. THREADED FITTINGS MEETING NEMA FB 1.

E. RACEWAYS IN CLOSE PROXIMITY OF OTHER TRADES, SHALL BE ARRANGED TO ALLOW FOR PROPER CLEARANCE FOR SERVICING, MAXIMUM HEADROOM, ETC. AND TO PRESENT A NEAT APPEARANCE. MAINTAIN ADEQUATE CLEARANCE BETWEEN CONDUIT AND PIPING WITH A MINIMUM OF 12 INCHES CLEARANCE BETWEEN CONDUIT AND SURFACES WITH TEMPERATURES EXCEEDING 104 DEGREES F.

F. JOIN RACEWAYS WITH FITTINGS DESIGNED AND APPROVED FOR THE PURPOSE AND MAKE JOINTS TIGHT. WHERE JOINTS CANNOT BE MADE TIGHT, USE BONDING JUMPERS TO PROVIDE ELECTRICAL CONTINUITY OF THE RACEWAY SYSTEM. MAKE RACEWAY TERMINATIONS TIGHT. WHERE SUBJECT TO VIBRATION OR DAMPNESS, USE INSULATION BUSHINGS TO PROTECT CONDUCTORS. CUT CONDUIT SQUARE USING SAW OR PIPE CUTTER AND DE–BURR CUT ENDS.

G. USE CONDUIT HUBS OR SEALING LOCKNUTS TO FASTEN CONDUIT TO BOXES IN DAMP AND WET LOCATIONS.

H. SUPPORT CONDUIT USING STEEL OR MALLEABLE IRON SINGLE OR DOUBLE HOLE CONDUIT STRAPS, LAY–IN ADJUSTABLE HANGERS, CLEVIS HANGERS AND SPLIT HANGERS AS REQUIRED. FASTEN CONDUIT SUPPORTS TO BUILDING STRUCTURE AND SURFACES. DO NOT ATTACH CONDUIT SUPPORTS TO CEILING SUPPORT WIRES, OR ANY OTHER CONDUIT, PIPE, DUCT, ETC. DO NOT SUPPORT CONDUIT WITH WIRE OR PIPE HANGER STRAPS.

I. BELOW GRADE: PVC–40 CONDUIT NEMA TC2 UL 651, WITH MATCHING FITTINGS BY THE SAME MANUFACTURER AS THE CONDUIT. COMPLYING WITH NEMA TC3 AND UL 51413.

J. BELOW GRADE, UNDER VEHICULAR TRAFFIC: PVC–80 CONDUIT, NEMA TC2 UL 651, WITH MATCHING FITTINGS BY THE SAME MANUFACTURER AS THE CONDUIT COMPLYING WITH NEMA TC3 AND UL 51413.

K. CONTRACTOR SHALL PROVIDE CONDUIT END BELLS AT THE END OF CONDUIT STUB UPS PREVENT DAMAGE TO CONDUCTOR INSULATION.

L. WHERE INSTALLING WEATHERHEADS WITH DIRECT EXPOSURE TO THE SUN, CONTRACTOR TO PROVIDE UV RESISTANT WIRE LOOM.

M. CONDUITS AND FITTINGS ON ROOFS SHALL HAVE SUPPORTS MINIMUM 5" HIGH AND PROVIDE ROOFING MANUFACTURER APPROVED SLIP SHEET UNDER EACH SUPPORT.

N. USE CONDUIT HUBS OR SEALING LOCKNUTS TO FASTEN CONDUIT TO BOXES IN DAMP AND WET LOCATIONS.

N. SUPPORT CONDUIT USING STEEL OR MALLEABLE IRON SINGLE OR DOUBLE HOLE CONDUIT STRAPS, LAY–IN ADJUSTABLE HANGERS, CLEVIS HANGERS AND SPLIT HANGERS AS REQUIRED. FASTEN CONDUIT SUPPORTS TO BUILDING STRUCTURE AND SURFACES. DO NOT ATTACH CONDUIT SUPPORTS TO CEILING SUPPORT WIRES, OR ANY OTHER CONDUIT, PIPE, DUCT, ETC. DO NOT SUPPORT CONDUIT WITH WIRE OR PIPE HANGER STRAPS.

O. ROUTE CONDUIT THROUGH ROOF OPENINGS FOR PIPING AND DUCTWORK OR THROUGH SUITABLE ROOF JACK WITH PITCH POCKET. COORDINATE LOCATION WITH ROOFING INSTALLATION.

P. BELOW GRADE: PVC SCHEDULE 40 CONDUIT NEMA TC2 UL 651, WITH MATCHING FITTINGS BY SAME MANUFACTURER AS THE CONDUIT. COMPLYING WITH NEMA TC 3 AND UL 51413.

Q. DIRECT BURIAL CABLE: 600V POWER AND CONTROL COPPER CONDUCTOR/90°C WET OR DRY SUNLIGHT RESISTANT.

R. SPECIFICATION: CONDUCTOR: BARE, SOLID OR STRANDED ALUMINUM OR COPPER PER ASTM B–3 OR B–8 INSULATION. MEETS OR EXCEED ALL REQUIREMENTS OF ICEA S–66524, NEMA WC–7 AND UL STANDARD 44 AND 854. LISTED BY UL AS TYPE XHHW–2 OR THWN–2, CSA RATED RW90.

1.6 WIRE AND CABLE

A. ALL WIRE EXCEPT GROUND WIRES SHALL BE HIGH CONDUCTIVITY ALUMINUM, 1000 VOLT INSULATED IN ACCORDANCE WITH THE NATIONAL BOARD OF FIRE UNDERWRITER'S STANDARDS.

B. PULL CONDUCTORS SIMULTANEOUSLY WITH UL LISTED PULLING COMPOUND OR LUBRICANT FOR BUILDING WIRE #4 AWG AND LARGER. USE PULLING MEANS INCLUDING, FISH TAPE, CABLE, ROPE, AND BASKET WEAVE WIRE/CABLE GRIPS WHICH WILL NOT DAMAGE CABLES OR RACEWAYS.

C. FOR MODIFICATIONS TO EXISTING SYSTEMS, MATCH COLOR CODING SCHEME ALREADY IN PLACE. OTHERWISE FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

D. 208Y/120 VOLTS PHASE 480Y/277 VOLTS

BLACK	A	BROWN
RED	B	ORANGE
BLUE	C	YELLOW
WHITE	NEUTRAL	WHITE
GREEN	GROUND	GREEN

E. ALL WIRING IN PANELS SHALL BE NEATLY TIE–WRAPPED AND TRAINED WITHIN GUTTER SPACES.

K. USE CONDUIT HUBS OR SEALING LOCKNUTS TO FASTEN CONDUIT TO BOXES IN DAMP AND WET LOCATIONS.

L. SUPPORT CONDUIT USING STEEL OR MALLEABLE IRON SINGLE OR DOUBLE HOLE CONDUIT STRAPS, LAY–IN ADJUSTABLE HANGERS, CLEVIS HANGERS AND SPLIT HANGERS AS REQUIRED. FASTEN CONDUIT SUPPORTS TO BUILDING STRUCTURE AND SURFACES. DO NOT ATTACH CONDUIT SUPPORTS TO CEILING SUPPORT WIRES, OR ANY OTHER CONDUIT, PIPE, DUCT, ETC. DO NOT SUPPORT CONDUIT WITH WIRE OR PIPE HANGER STRAPS.

M. ROUTE CONDUIT THROUGH ROOF OPENINGS FOR PIPING AND DUCTWORK OR THROUGH SUITABLE ROOF JACK WITH PITCH POCKET. COORDINATE LOCATION WITH ROOFING INSTALLATION.

N. BELOW GRADE: PVC SCHEDULE 40 CONDUIT NEMA TC2 UL 651, WITH MATCHING FITTINGS BY SAME MANUFACTURER AS THE CONDUIT. COMPYING WITH NEMA TC 3 AND UL 51413.

O. DIRECT BURIAL CABLE: 600V POWER AND CONTROL COPPER CONDUCTOR/90°C WET OR DRY SUNLIGHT RESISTANT.

P. SPECIFICATION: CONDUCTOR: BARE, SOLID OR STRANDED ALUMINUM OR COPPER PER ASTM B–3 OR B–8 INSULATION. MEETS OR EXCEED ALL REQUIREMENTS OF ICEA S–66524, NEMA WC–7 AND UL STANDARD 44 AND 854. LISTED BY UL AS TYPE XHHW–2 OR THWN–2, CSA RATED RW90.

1.6 WIRE AND CABLE

F. TORQUE MARKS SHALL BE MADE WITH MPD FX FINE TIP PAINT MARKERS, OR APPROVED EQUAL.

1.7 BOXES

A. STEEL OUTLET BOXES: NEMA OS 1, GALVANIZED SHEET STEEL WITH 1/2" AND 3/4" COMBINATION STAMPED KNOCKOUTS, THREADED SCREW HOLES AND ACCESSORIES SUITABLE FOR EACH LOCATION INCLUDING MOUNTING BRACKETS, STRAPS, AND CABLE CLAMPS. ALL BOXES SHALL BE SUFFICIENTLY SIZED BASED ON THE NUMBER OF CONDUCTORS.

B. GALVANIZED STEEL PULL BOXES: NEMA OS 1 WITH WELDED SEAMS. WHERE NECESSARY TO PROVIDE A RIGID ASSEMBLY, CONSTRUCT WITH INTERNAL STRUCTURAL STEEL BRACING, HOT–DIP GALVANIZED AFTER FABRICATION. COVER SHALL BE GASKETED, SCREWED OR BOLTED ON OF MATERIAL SAME AS BOX AND SHALL BE OF SIZE AND SHAPE TO SUIT APPLICATION. SIZES SHALL BE ADEQUATE TO MEET NEC VOLUME REQUIREMENTS, BUT IN NO CASE SMALLER THAN SIZES INDICATED. REMOVE SHARP EDGES WHERE THEY MAY COME IN CONTACT WITH WIRING OR PERSONNEL. PULL BOXES SHALL BE WATER PROOF AND IF LOCATED OUTED SHALL BE NEMA 3R RATED.

C. ELECTRICALLY GROUND ALL METAL BOXES TO CONDUIT SYSTEM. WHERE WIRING TO ITEMS INCLUDES A GROUNDING CONDUCTOR, ALSO PROVIDE A GROUNDING TERMINAL IN THE INTERIOR OF THE CABINET, BOX OR ENCLOSURE.

1.8 SUPPORTING DEVICES

A. PROVIDE MATERIALS, SIZES AND TYPES OF ANCHORS, FASTENERS AND SUPPORTS TO CARRY THE LOADS OF EQUIPMENT AND CONDUIT. CONSIDER THE WEIGHT OF WIRE IN CONDUIT WHEN SELECTING PRODUCTS. ATTACHMENTS SHALL BE RATED BY AN INDEPENDENT TESTING LABORATORY FOR THE RATED LOADING WITH A SAFETY FACTOR OF FIVE. USE VIBRATION AND SHOCK–RESISTANT FASTENERS FOR ATTACHMENTS TO CONCRETE SLABS. DO NOT USE SPRING STEEL CLIPS AND CLAMPS, POWDER–ACTUATED ANCHORS, TESTING FOR CONCRETE AND STEEL ATTACHMENTS SHALL BE IN ACCORDANCE WITH TEST CRITERIA ESTABLISHED BY UL SUPPORTS, SUPPORT HARDWARE, AND FASTENERS SHALL BE PROTECTED WITH ZINC COATING OR WITH TREATMENT OF EQUIVALENT CORROSION RESISTANCE. PRODUCTS FOR USE OUTDOORS SHALL BE HOT–DIP GALVANIZED. IN CORROSIVE AREAS, PRODUCTS SHALL BE TREATED WITH 15 MIL PVC COATING. ALL PRODUCTS SHALL BE TREATED AFTER CUTTING AND THREADING.

B. HANGERS SHALL BE SUPPORTED FROM BUILDING PRIMARY FRAMING SYSTEM. HANGERS SHALL BE BOLTED AND/OR WELDED TO BUILDING STEEL OR CONCRETE BEAMS OR STRUCTURAL LOAD CARRYING SHAPES WHERE THEY OCCUR. IF THE SPACING OF THE BUILDING STEEL, CONCRETE BEAMS OR STRUCTURAL BEAMS IS IN EXCESS OF THE SPACING HEREIN SCHEDULED, PROVIDE INTERMEDIATE STRUCTURAL STEEL SHAPES SECURELY FASTENED TO BUILDING BEAMS OR WHERE APPROVED, HUNG FROM BUILDING CONCRETE CONSTRUCTION BY MEANS OF RODS AND INSERTS PROVIDE SUPPORTS WHICH ARE AMPLY STRONG AND RIGID FOR THE LOAD, BUT WHICH SHALL NOT WEAKEN OR UNDULY STRESS THE BUILDING CONSTRUCTION.

C. PROVIDE SUPPORTS FOR ALL RACEWAYS INCLUDING U–CHANNEL SYSTEMS, RISER CLAMPS, CONDUIT STRAPS, THREADED C–CLAMPS WITH RETAINERS AND WALL BRACKETS.

D. CONCRETE STRUCTURAL ELEMENTS AND MASONRY WALLS: USE CARBON STEEL WEDGE OR SLEEVE TYPE EXPANSION ANCHORS. COORDINATE ALL ANCHOR LOCATIONS IN POST–TENSIONED SLABS. HOLES CUT DEPTH OF MORE THAN 1–1/2 INCHES IN REINFORCED CONCRETE BEAMS OR MORE THAN 3/4 INCH IN REINFORCED CONCRETE SHALL NOT CUT THE MAIN REINFORCING BARS. FILL HOLES THAT ARE NOT USED.

E. HOLLOW MASONRY: USE STEEL SPRINGHEAD TYPE TOGGLE BOLTS AND HOLLOW WALL FASTENERS.

F. STEEL STRUCTURAL ELEMENTS: USE BEAM CLAMPS, STEEL FASTENERS AND CLEVIS HANGERS.

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	ML	MK	2024.09.12

Issued

File Name: N/A	CEH	PK	AD	
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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086690
LICENSED PROFESSIONAL ENGINEER

Client/Project Logo

1660 1904
CITY OF RYE NY 1942

Client/Project
CITY OF RYE

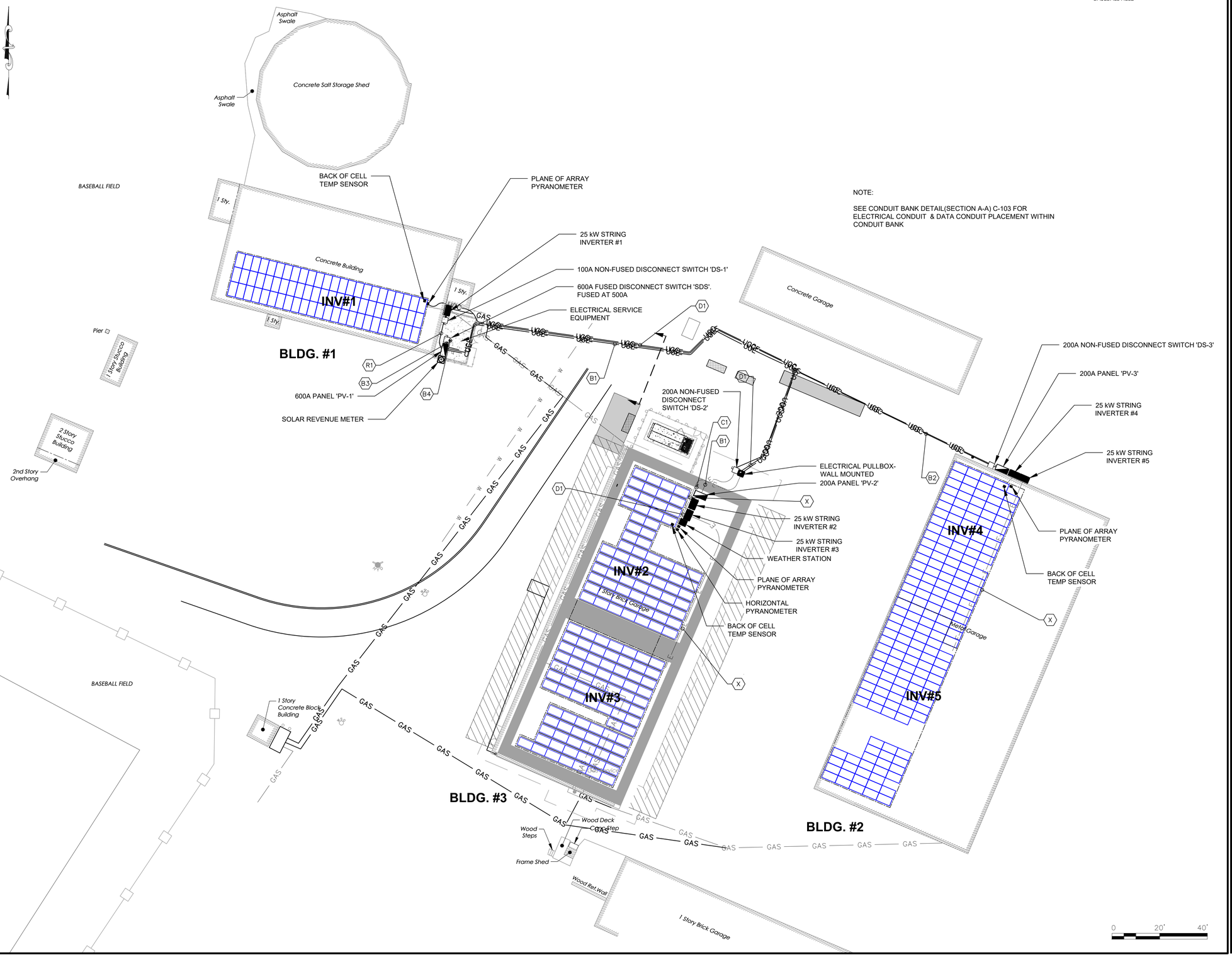
DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
Electrical Specifications

Project No.	Scale
192311093	AS SHOWN
Date	Drawing No.
2024.05.24	PV-002

BIM 360
7/8/2020 7:33:43 AM
ORIGINAL SHEET - ANSI D



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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	ML	MK	2024.09.12
Issued	By	Appd	YYYY.MM.DD
File Name: N/A	CEH Dwn.	PK Dsgn.	AD Chkd. YYYY.MM.DD

Permit/Seal

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Client/Project Logo

1660 1904 CITY OF RYE NY 1942

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CITY OF RYE

DPW ADMIN BUILDING

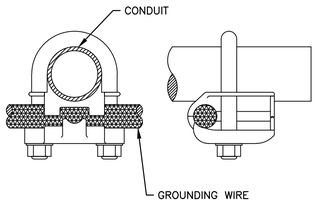
DISBROW PARK
RYE, NY 10580

Title
Solar PV Site Plan

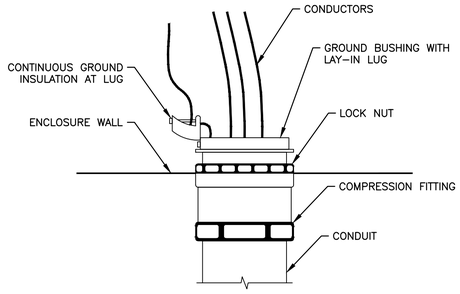
Project No.	Scale
192311093	1" = 20'
Date	Drawing No.
2024.05.24	PV-100

BIM 360
7/8/2020 7:53:43 AM

ORIGINAL SHEET - ANSI D

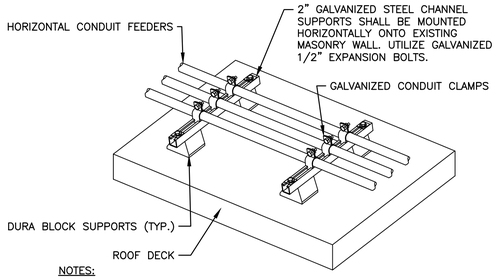


1 GROUNDING CLAMPS FOR HORIZONTAL PIPES
N.T.S.



** REQUIRED UNLESS DEEMED UNNECESSARY

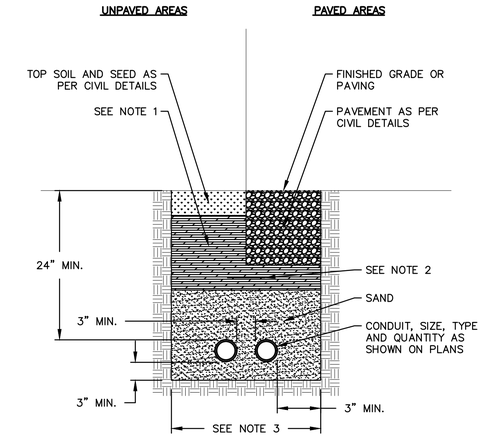
2 CONDUIT BODY GROUNDING
N.T.S.



NOTES:

1. CONFIRM ALL VERTICAL RUN LOCATIONS WITH OWNER PRIOR TO START OF WORK.
2. VERTICAL DISTANCE BETWEEN HORIZONTAL CROSS SUPPORTS SHALL NOT EXCEED TEN FEET.
3. WHERE THERE ARE MULTIPLE COMMUNICATION DEVICES, PARALLELED CONDUIT OF DIFFERENT COMMUNICATIONS DOMAINS/CIRCUITS MUST REMAIN A MINIMUM OF 12 INCHES APART. THIS APPLIES ONLY TO BRANCH CIRCUITS PRIOR TO COMBINING.

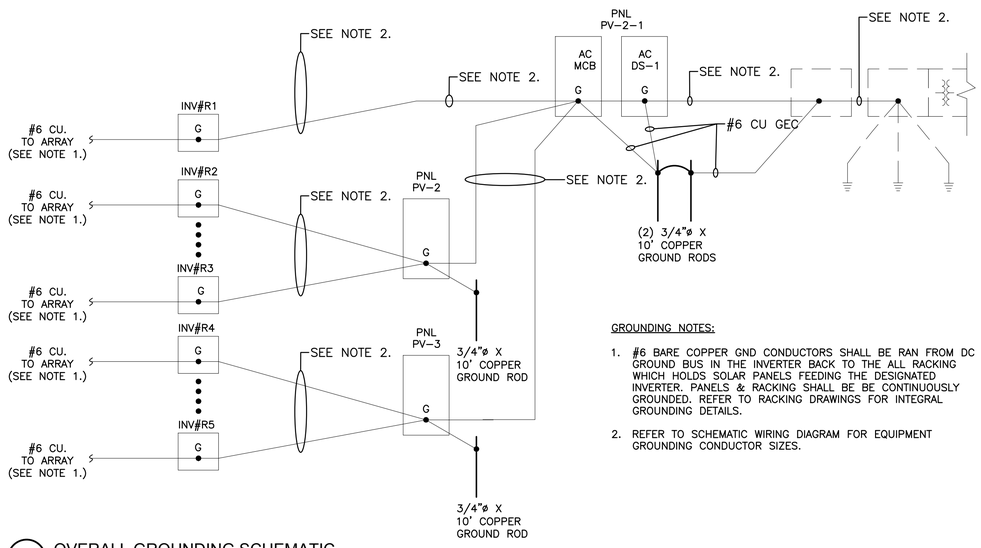
3 HORIZONTAL CONDUIT MOUNTING
N.T.S.



NOTES:

1. APPROVED COMPACTED BACKFILL (95% PROCTOR AS PER ASTM D1557 IN 6" LIFTS).
2. METALLIC TAPE BURIED 10" ABOVE CONDUITS. WHEN CONDUIT IS MORE THAN TWO ACROSS ADD A SECOND LINE OF TAPE.
3. TRENCH WIDTH SHALL BE 1' MINIMUM.
4. ELECTRICAL AND COMMUNICATIONS CONDUIT SHALL BE SEPARATED BY 1' MINIMUM.
5. SEE C–103 FOR CONDUIT BANK DETAILS

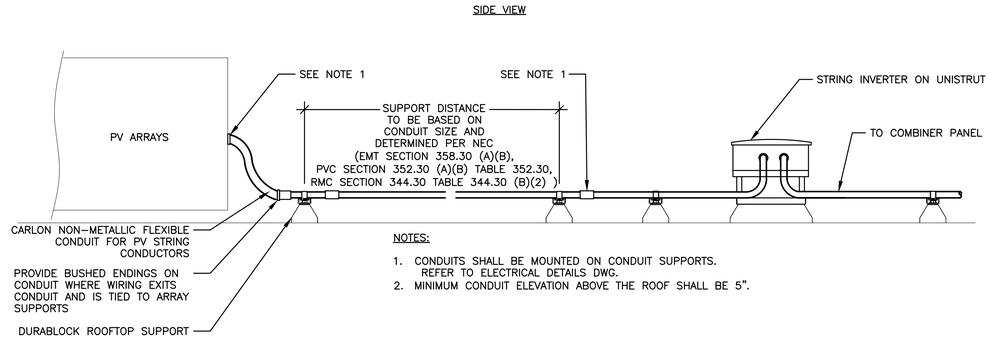
4 TYPICAL CONDUIT TRENCH DETAIL
N.T.S.



GROUNDING NOTES:

1. #6 BARE COPPER GND CONDUCTORS SHALL BE RAN FROM DC GROUND BUS IN THE INVERTER BACK TO THE ALL RACKING WHICH HOLDS SOLAR PANELS FEEDING THE DESIGNATED INVERTER. PANELS & RACKING SHALL BE BE CONTINUOUSLY GROUNDED. REFER TO RACKING DRAWINGS FOR INTEGRAL GROUNDING DETAILS.
2. REFER TO SCHEMATIC WIRING DIAGRAM FOR EQUIPMENT GROUNDING CONDUCTOR SIZES.

5 OVERALL GROUNDING SCHEMATIC
SCALE: N.T.S.



NOTES:

1. CONDUITS SHALL BE MOUNTED ON CONDUIT SUPPORTS. REFER TO ELECTRICAL DETAILS DWG.
2. MINIMUM CONDUIT ELEVATION ABOVE THE ROOF SHALL BE 5".

6 ROOF CONDUCTOR ROUTING WITH CONDUIT
SCALE: N.T.S.

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DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
Electrical Details

Project No.	Scale
192311093	AS SHOWN
Date	Drawing No.
2024.05.24	PV-500

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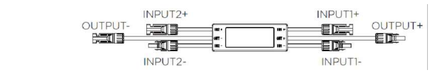
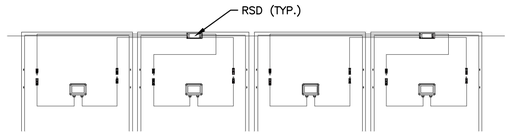
7/8/2020 7:53:43 AM

ORIGINAL SHEET - ANSI D



RAD – RAPID SHUTDOWN DEVICE (TYP.)

RSD MOUNTING

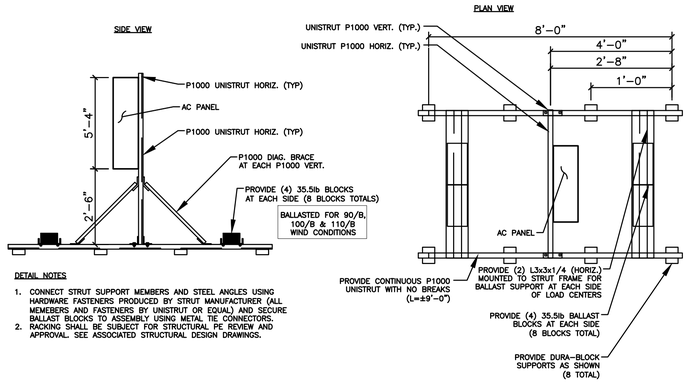


RSD WIRING

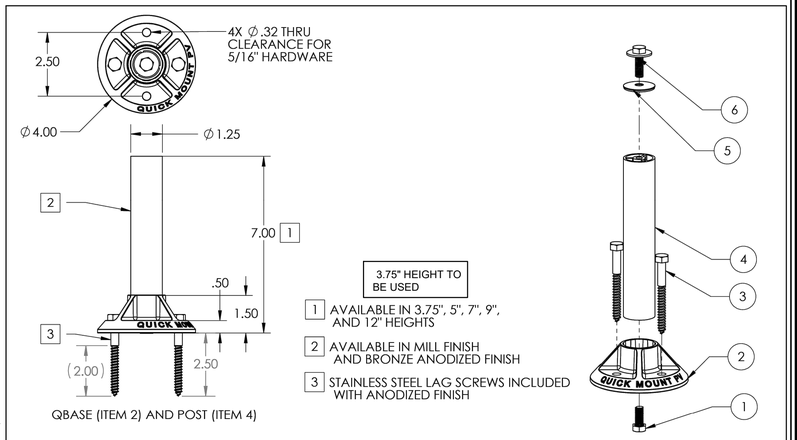
NOTES:

1. WHEN INSTALLING RSD, ALWAYS CONNECT THE INPUT CABLES TO THE PV MODULES BEFORE CONNECTING THE RSD OUTPUT CABLES IN SERIES.
2. STRING INVERTER SHALL HAVE INTEGRATED AP SMART TRANSMITTER FOR RAPID SHUTDOWN CONTROL.
3. RAPID SHUTDOWN DEVICES ARE ONLY REQUIRED FOR ROOFTOP MODULES.
4. MOUNT RSD ONTO BACK OF PV MODULE FRAME USING MANUFACTURER PROVIDED MOUNTING BRACKETS.
5. BENDING RADIUS NEAR RSD CASING SHALL BE NO GREATER THAN 50mm.
6. DO NOT CONNECT HOMERUN TO INVERTER PRIOR TO FINISHING ALL STRINGS CONNECTIONS AND TESTS.
7. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
8. DO NOT PLACE THE RSD (INCLUDING DC CONNECTORS) WHERE EXPOSED TO THE SUN, RAIN OR SNOW, EVEN GAP BETWEEN. ALLOW A MINIMUM OF 3/4". BETWEEN ROOF AND THE BOTTOM OF THE RSD TO ALLOW PROPER AIR FLOW.

1 RSD CONNECTION DETAIL (TYP.)
N.T.S.



2 BALLASTED VERTICAL AC PANEL MOUNTING - ROOFTOP
SCALE: N.T.S.



QBASE (ITEM 2) AND POST (ITEM 4)

ITEM NO.	DESCRIPTION	QTY.
1	CAP SCREW, HEX HEAD, 5/16"-18 X 3/4" UNC-2A, GRADE 8, MAGNI	1
2	QBASE, 1-1/4" ID, FOR 5/16" HARDWARE, A360 CAST AL	1
3	LAG SCREW, HEX HEAD, 5/16" X 3", ZINC	2
4	POST, 1.25" OD X 6.5", 6063-T5/6063-T6, MILL	1
5	WASHER, SEALING, 5/16" ID X 1-1/4" OD, EPDM BONDED SS	1
6	CAP SCREW, HEX HEAD, 5/16"-18 X 1" UNC-2A, NYLON PATCH, W/ CAPTIVE WASHER, 1"OD, 18-8 SS	1

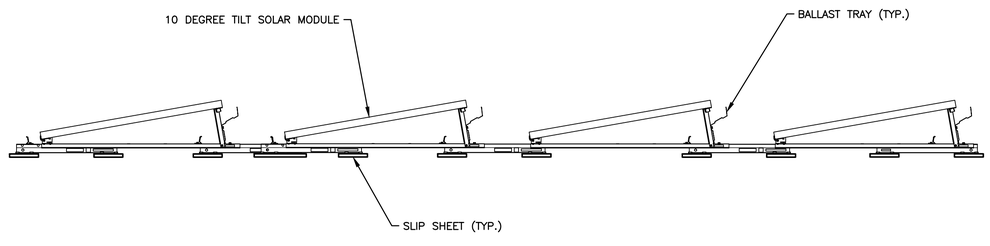
DO NOT SCALE DRAWING

Quick Mount PV®

TITLE: QMLSH: QBASE LOW SLOPE MOUNT

UNLESS OTHERWISE SPECIFIED:	SIZE	DRAWN BY: RAD	REV
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/8 TWO PLACE DECIMAL ±.19 THREE PLACE DECIMAL ±.094	A	DATE: 8/9/2019	10
	SCALE: 1:3	WEIGHT: 1.02	SHEET 1 OF 1

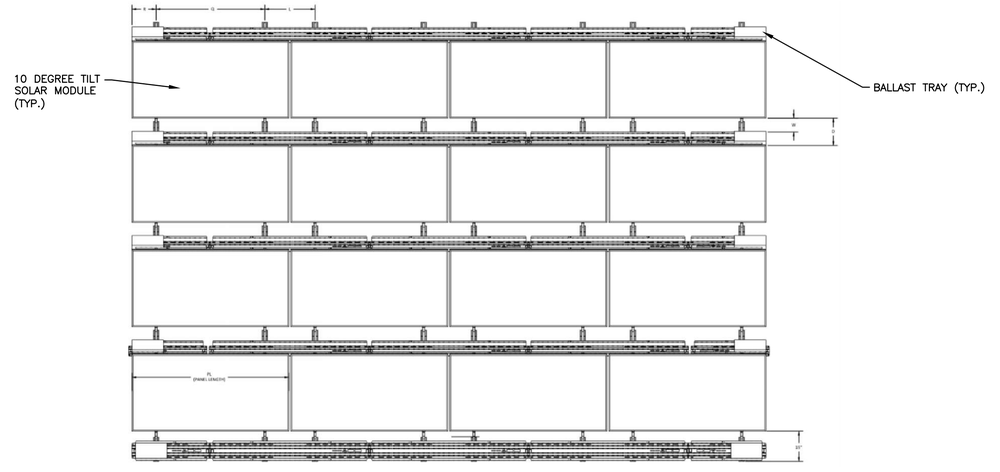
3 QBASE LOW SLOPE MOUNT
N.T.S.



NOTES:

1. CONTRACTOR SHALL PLACE SLIP SHEET UNDER EVERY BALLAST TRAY.
2. SLIP SHEETS SHALL EXTEND 2" MINIMUM AND 3" MAXIMUMUM BEYOND THE BALLAST TRAY IN ALL DIRECTIONS.
3. SLIP SHEET MATERIAL SHALL MATCH EXISTING ROOF MEMBRANE MATERIAL.
4. SLIP SHEETS SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.

4 TYPICAL 10 DEGREE BALLASTED RACKING SYSTEM - SECTION VIEW
SCALE: N.T.S.



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5 TYPICAL 10 DEGREE BALLASTED RACKING SYSTEM - PLAN VIEW
SCALE: N.T.S.

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Client/Project Logo

CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
Electrical Details

Project No.	Scale
192311093	AS SHOWN
Date	Drawing No.
2024.05.24	PV-501

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7/8/2020 7:53:43 AM

ORIGINAL SHEET - ANSI D

PANELBOARD IDENTIFICATION LABELS
LAMICORD SHALL BE: 6"x5"
(1 PER PANELBOARD)

AC LOAD CENTER
PV-__-__

ELECTRIC SHOCK HAZARD.
DO NOT TOUCH TERMINALS. TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

INTERACTIVE SOLAR PV SYSTEM RATINGS

MAX. OPERATING CURRENT	**____ AMPS**
OPERATING VOLTAGE	**208 VAC**

AC VISIBLE DISCONNECT IDENTIFICATION LABEL
LAMICORD SHALL BE: 6"x5"
(1 PER DISCONNECT)

PV SYSTEM DISCONENCT
DS-1
! WARNING
ELECTRIC SHOCK HAZARD.
DO NOT TOUCH TERMINALS. TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

INTERACTIVE SOLAR PV SYSTEM RATINGS

MAX. OPERATING CURRENT	**450 AMPS**
OPERATING VOLTAGE	**208 VAC**

IDENTIFICATION PLACARD TO BE PLACED ON DISCONNECT "DS-1"

DIRECTORY WARNING PROVIDING VISIBLE DISCONNECT LOCATION
LAMICORD SHALL BE: 6"x5"
(LOCATED AT METER IF 10' REQUIREMENT IS NOT MET)

CAUTION

POWER TO THIS SERVICE IS ALSO SUPPLIED FROM ON-SITE SOLAR GENERATION. AC DISCONNECT IS LOCATED ON WALL IN LINE OF SIGHT OF UTILITY METER

INVERTER IDENTIFICATION LABELS
LAMICORD SHALL BE: 4"x6"
(1 PER INVERTER)

PHOTOVOLTAIC
__kW INVERTER #__

THE INVERTER INTERCONNECTS AT LINE SIDE OF THE 208V MAIN CIRCUIT BREAKER LOCATED IN THE OUTDOOR METERING SWITCHBOARD .

TO BE POSTED AT ALL INVERTERS
PER NEC 690.54

INVERTER IDENTIFICATION LABELS
LAMICORD SHALL BE: 1 1/2"x6"
TEXT SIZE SHALL BE 1/2"
(1 PER INVERTER)

INVERTER #X

IDENTIFICATION PLACARD PER NEC
230.3(E) TO BE PLACED ON INVERTERS

LAMICORD SHALL BE: 4"x6"

! WARNING
PHOTOVOLTAIC POWER SOURCE

TO BE POSTED AT ALL EXPOSED RACEWAYS, CONDUIT BODIES AND JUNCTION BOXES CONTAINING DC CIRCUITS PER NEC 690.31(G)(3)

EMERGENCY CONTACT
IDENTIFICATION LABELS
LAMICORD SHALL BE: 4"x6"

PLEASE CONTACT "CONTRACTOR NAME"AT "PHONE NUMBER" IF YOU HAVE ANY QUESTIONS OR CONCERNS

TO BE POSTED AT THE LOCATION
OF THE MAIN DISCONNECT OF THE
SOLAR SYSTEM

LAMICORD SHALL BE: 4"x6"

ARIAL FONT SHALL BE .75 HT.

ARIAL FONT SHALL BE .375 HT.

! WARNING
ARC FLASH HAZARD
APPROPRIATE PPE REQUIRED
FAILURE TO COMPLY CAN RESULT IN DEATH OR SEVERE INJURY

TO BE POSTED ON ALL ELECTRICAL PANELS & EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, DISCONNECT SWITCHES, CONTROL PANELS, METER SOCKET & COMBINER BOXES PER NFPA 70 E & NEC 110.16

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Client/Project Logo

1660 1904 CITY OF RYE NY 1942

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
Typical Electrical Equipment Labels

Project No.
192311093

Scale
AS SHOWN

Date
2024.05.24

Drawing No.
PV-520

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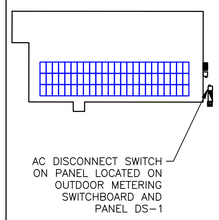
7/8/2020 7:53:43 AM

ORIGINAL SHEET - ANSI D

LAMICORD SHALL BE: 8.5"x11"

SOLAR PV SYSTEM IS EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE 'OFF' POSITION TO SHUT DOWN CONDUCTORS OUTSIDE THE ARRAY. CONDUCTORS IN ARRAY REMAIN ENERGIZED IN SUNLIGHT.



IDENTIFICATION PLACARD TO BE PLACED ADJACENT TO SDS

LAMICORD SHALL BE: 4"x6"

ARIAL FONT SHALL BE .75 HT.

ARIAL FONT SHALL BE .375 HT.

⚠ CAUTION

POWER TO THIS SERVICE IS ALSO SUPPLIED FROM UTILITY GENERATION. MAIN SERVICE DISCONNECT SWITCH IS LOCATED TO THE RIGHT

TO BE POSTED ON ADJACENT TO CB-1
PER NEC 230.2(E)

LAMICORD SHALL BE: 4"x6"

ARIAL FONT SHALL BE .75 HT.

ARIAL FONT SHALL BE .375 HT.

⚠ WARNING

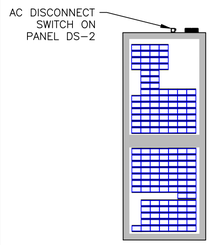
INVERTER OUTPUT CONNECTION
DO NOT ADD LOADS TO THIS SWITCHBOARD

TO BE APPLIED TO NEW 480V PANELBOARD

LAMICORD SHALL BE: 8.5"x11"

SOLAR PV SYSTEM IS EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE 'OFF' POSITION TO SHUT DOWN CONDUCTORS OUTSIDE THE ARRAY. CONDUCTORS IN ARRAY REMAIN ENERGIZED IN SUNLIGHT.



IDENTIFICATION PLACARD TO BE PLACED ADJACENT TO DS-2

LAMICORD SHALL BE: 6"x5"

ARIAL FONT SHALL BE .75 HT.

ARIAL FONT SHALL BE .375 HT.

⚠ WARNING

IDENTIFICATION OF MULTIPLE SERVICE DISCONNECTS

A SECOND POWER SOURCE IS PRESENT IN THIS EQUIPMENT
PV SYSTEM DISCONNECT LOCATED

TO BE PLACED ADJACENT TO CB-1
PER NEC 230.2(E)

LAMICORD SHALL BE: 4"x6"

ARIAL FONT SHALL BE .75 HT.

ARIAL FONT SHALL BE .375 HT.

⚠ WARNING

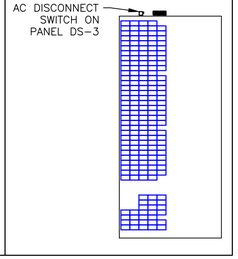
ARC FLASH HAZARD
APPROPRIATE PPE REQUIRED
FAILURE TO COMPLY CAN RESULT IN DEATH OR SEVERE INJURY

TO BE POSTED ON ALL ELECTRICAL PANELS & EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, DISCONNECT SWITCHES, CONTROL PANELS, METER SOCKET & COMBINER BOXES PER NFPA 70 E & NEC 110.16

LAMICORD SHALL BE: 8.5"x11"

SOLAR PV SYSTEM IS EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE 'OFF' POSITION TO SHUT DOWN CONDUCTORS OUTSIDE THE ARRAY. CONDUCTORS IN ARRAY REMAIN ENERGIZED IN SUNLIGHT.



IDENTIFICATION PLACARD TO BE PLACED ADJACENT TO DS-3

LAMICORD SHALL BE: 6"x5"

ARIAL FONT SHALL BE .75 HT.

ARIAL FONT SHALL BE .375 HT.

⚠ WARNING

POWER SOURCE OUTPUT CONNECTION.
DO NOT RELOCATE THIS OVERCURRENT DEVICE.

TO BE PLACED ADJACENT TO CB-1
PER NEC 705.12

BIM 360
7/8/2020 7:53:43 AM
ORIGINAL SHEET - ANSI D

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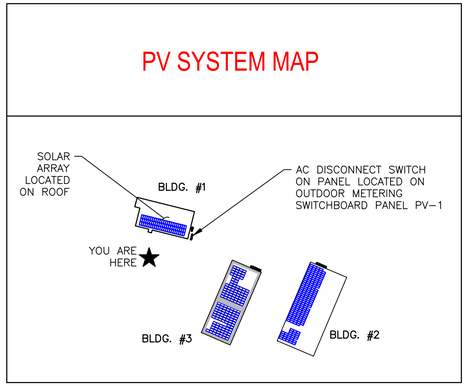
Typical Electrical Equipment Labels

Project No.	Scale
192311093	AS SHOWN
Date	Drawing No.
2024.05.24	PV-521

1 BLDG. #1 SYSTEM MAP

N.T.S.

LAMICORD SHALL BE: 8.5"x11"

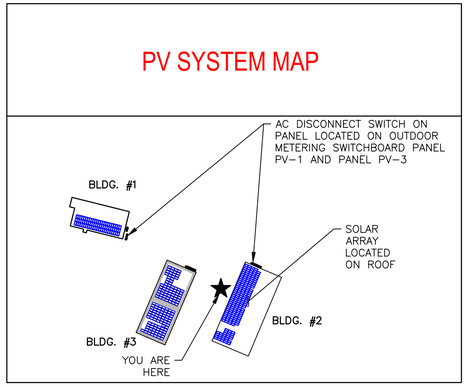


IDENTIFICATION PLACARD TO BE PLACED AT FRONT ENTRANCE OF BUILDING

2 BLDG. #2 SYSTEM MAP

N.T.S.

LAMICORD SHALL BE: 8.5"x11"

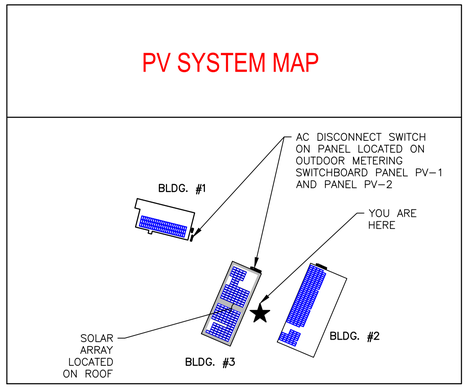


IDENTIFICATION PLACARD TO BE PLACED AT FRONT ENTRANCE OF BUILDING

3 BLDG. #3 SYSTEM MAP

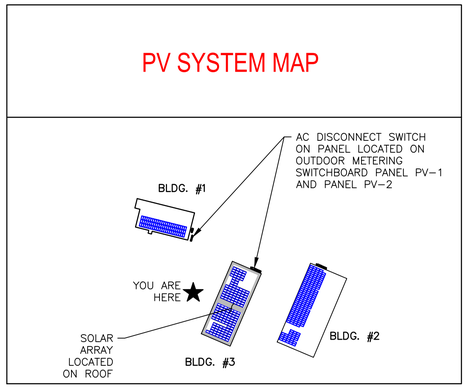
N.T.S.

LAMICORD SHALL BE: 8.5"x11"



IDENTIFICATION PLACARD TO BE PLACED AT REAR ENTRANCE OF BUILDING

LAMICORD SHALL BE: 8.5"x11"



IDENTIFICATION PLACARD TO BE PLACED AT FRONT ENTRANCE OF BUILDING

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1660 1904 CITY OF RYE NY 1942

Client/Project

CITY OF RYE

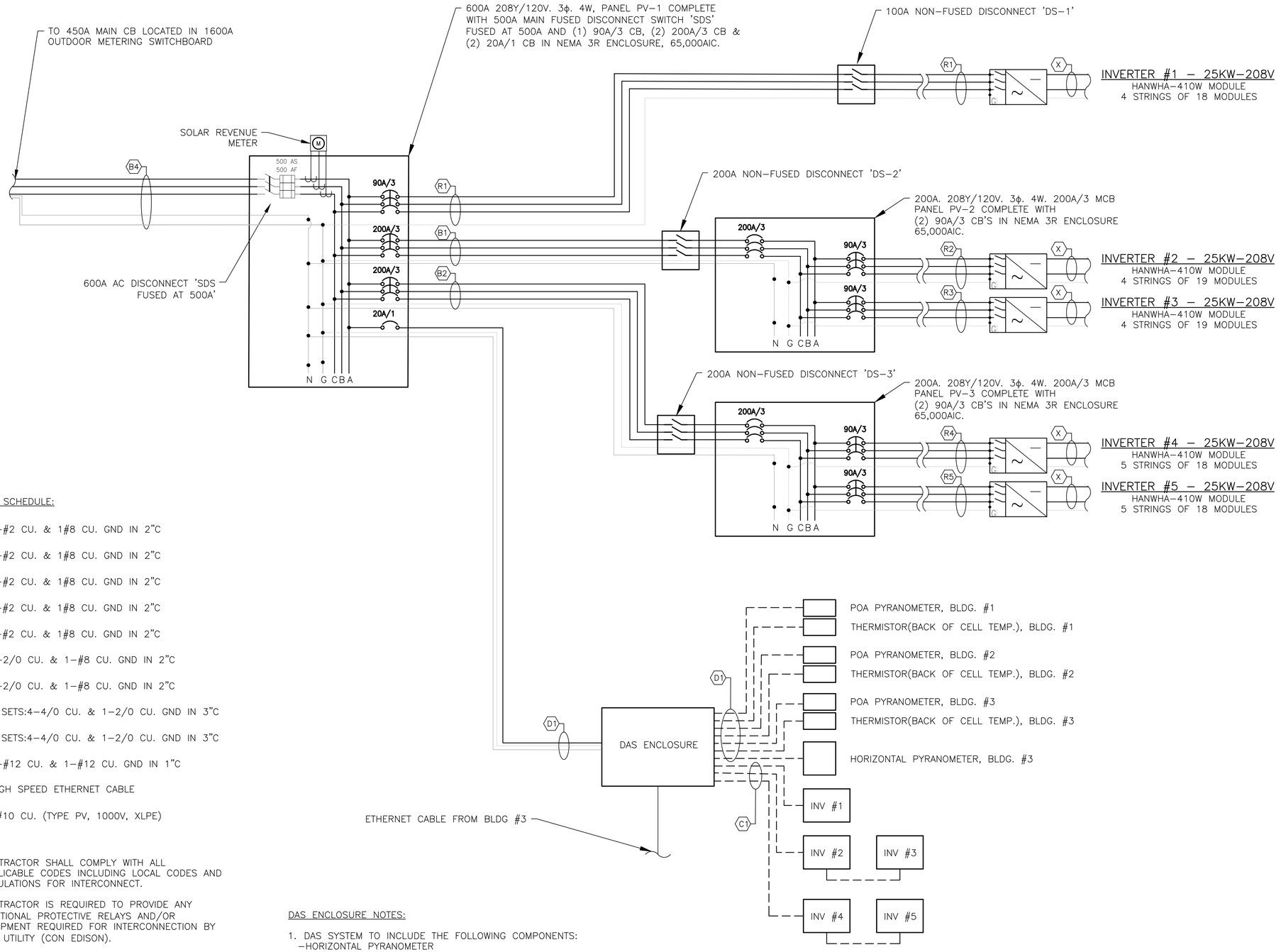
DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title

Typical Electrical Equipment Labels

Project No.	Scale
192311093	AS SHOWN
Date	Drawing No.
2024.05.24	**PV-522**



CABLE SCHEDULE:

R1 3-#2 CU. & 1#8 CU. GND IN 2"C

R2 3-#2 CU. & 1#8 CU. GND IN 2"C

R3 3-#2 CU. & 1#8 CU. GND IN 2"C

R4 3-#2 CU. & 1#8 CU. GND IN 2"C

R5 3-#2 CU. & 1#8 CU. GND IN 2"C

B1 3-2/0 CU. & 1-#8 CU. GND IN 2"C

B2 3-2/0 CU. & 1-#8 CU. GND IN 2"C

B3 2 SETS:4-4/0 CU. & 1-2/0 CU. GND IN 3"C

B4 2 SETS:4-4/0 CU. & 1-2/0 CU. GND IN 3"C

D1 2-#12 CU. & 1-#12 CU. GND IN 1"C

C1 HIGH SPEED ETHERNET CABLE

X 2#10 CU. (TYPE PV, 1000V, XLPE)

NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES INCLUDING LOCAL CODES AND REGULATIONS FOR INTERCONNECT.
2. CONTRACTOR IS REQUIRED TO PROVIDE ANY ADDITIONAL PROTECTIVE RELAYS AND/OR EQUIPMENT REQUIRED FOR INTERCONNECTION BY THE UTILITY (CON EDISON).
3. FUSES SHALL BE CLASS "J", TIME DELAY FUSES.
4. DISCONNECT SWITCHES SHALL BE CAPABLE OF BEING LOCKED IN THE OFF POSITION.

DAS ENCLOSURE NOTES:

1. DAS SYSTEM TO INCLUDE THE FOLLOWING COMPONENTS:
   - HORIZONTAL PYRANOMETER
   - POA PYRANOMETER
   - COMBINED TEMPERATURE/RELATIVE HUMIDITY PROBE
   - WIND SPEED/DIRECTION SENSORS
   - SURFACE MOUNTED THERMISTOR(TO MEASURE SOLAR PANEL TEMPERATURE)

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Notes

Revision	By	Appd	YYYY.MM.DD
ISSUE FOR BID	ML	MK	2024.09.12

Issued	By	Appd	YYYY.MM.DD
File Name: N/A	CEH Dwn.	PK Dsgn.	AD Chkd.

Permit/Seal

STATE OF NEW YORK · MICHAEL J. KALB · 086690 · LICENSED PROFESSIONAL ENGINEER

Client/Project Logo

CITY OF RYE 1660 1904 CITY OF RYE NY 1942

Client/Project
CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
Wiring Diagram

Project No.	Scale
192311093	AS SHOWN
Date	Drawing No.
2024.05.24	PV-600

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ORIGINAL SHEET - ANSI D

AC WIRE SIZE TABLE				
	DESCRIPTION	WIRE SIZE	VOLTAGE (V)	AMPACITY (A)
X	PV SOURCE CIRCUIT	2–#10 CU.–(TYPE PV, 1000V, XLPE)	–	–
R1	INVERTER #1 TO PV–1	3–#2 CU. & 1#8 CU. GND IN 2"C	208V/3	69.39
R2	INVERTER #2 TO PV–2	3–#2 CU. & 1#8 CU. GND IN 2"C	208V/3	69.39
R3	INVERTER #3 TO PV–2	3–#2 CU. & 1#8 CU. GND IN 2"C	208V/3	69.39
R4	INVERTER #4 TO PV–3	3–#2 CU. & 1#8 CU. GND IN 2"C	208V/3	69.39
R5	INVERTER #5 TO PV–3	3–#2 CU. & 1#8 CU. GND IN 2"C	208V/3	69.39
B1	PANEL PV–2 TO PV–1	3–2/0 CU. & 1#6 CU. GND IN 2"C	208V/3	138.79
B2	PANEL PV–3 TO PV–1	3–2/0 CU. & 1#6 CU. GND IN 2"C	208V/3	138.79
B3	PANEL PV–1 TO SDS	2 SETS:4–4/0I. & 1–2/0 CU. GND IN 3"C	208V/3	346.97
B4	SDS TO P.O.I	2 SETS:4–4/0I. & 1–2/0 CU. GND IN 3"C	208V/3	346.97

1 CABLE AND CONDUIT SCHEDULE
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	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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MICHAEL J. KALB
086690
LICENSED PROFESSIONAL ENGINEER

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1660 1904
CITY OF RYE NY 1942

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CITY OF RYE

DPW ADMIN BUILDING

DISBROW PARK
RYE, NY 10580

Title
PV CONDUIT & CABLE SCHEDULE

Project No.	Scale
192311093	AS SHOWN
Date	Drawing No.
2024.05.24	**PV-700**

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ORIGINAL SHEET - ANSI D

1. TEMPERATURE COEFFICIENT OF VOLTAGE = (ΔT*($T_{COEFF\ OF\ VOLTAGE}$/100) = (−41.70°C*(−0.34%/°C/100)) = 0.1418V/°C.

2. VOLTAGE INCREASE FOR −41.70°C DIFFERENTIAL = (ΔT*($T_{COEFF\ OF\ VOLTAGE}$/100)*$V_{OC\ MODULE}$) = ((−41.70°C*(−0.34%/°C/100)*42.79V)) = 6.07V PER MODULE.

3. MAXIMUM ALLOWABLE MODULES IN SERIES FOR A 1000V SYSTEM =1000/($V_{OC\ MODULE}$ + VOLTAGE INCREASE PER MODULE) = 1000V / (42.79V+6.07V) = 20.47 MODULES.
   THE MAXIMUM NUMBER OF MODULES IN SERIES IN ONE STRING = 20 MODULES.

4. THE PHOTOVOLTAIC ARRAY STRINGS USE 18 MODULES IN SERIES FOR STRING CONFIGURATION 1 AND 19 MODULES IN SERIES FOR STRING CONFIGURATION 2.

5. THE MINIMUM #MODULES PER STRING = MIN MPPT INPUT VOLTAGE RANGE OF INVERTER/[$V_{MP\ MODULE}$ + (T_{RISE} + T_{MAX} − T_{STC})*((T_{COEFF_MODULE}/100)*$V_{MP\ MODULE}$)].
   MINIMUM #MODULES PER STRING = 480V/[37.64V + (5°C + 34.22°C − 25°C)*((−0.34%/°C/100)*37.64V)] = 13.40 MODULES PER STRING.
   THE MINIMUM NUMBER OF MODULES PER STRING = 13 MODULES.

6. MAXIMUM #STRINGS PER 25kW INVERTER = MAX OPERATING INPUT CURRENT OF INVERTER/Isc MODULE = 135A/11.20A =12.05 STRINGS PER INVERTER.

7. RATED MAX POWERPOINT VOLTAGE OF ALL INVERTERS = $V_{MP\ MODULE}$ * # MODULES PER STRING = 37.64V * 19 MODULES PER STRING = 715.16VDC.

8. RATED MAX POWERPOINT CURRENT ON INVERTERS WITH 5 STRINGS = $I_{MP\ MODULE}$ * #STRINGS PER INVERTER = 10.89A * 5 STRINGS PER INVERTER = 54.45ADC.

9. RATED MAX POWERPOINT CURRENT ON INVERTERS WITH 4 STRINGS = $I_{MP\ MODULE}$ * #STRINGS PER INVERTER = 10.89A * 4 STRINGS PER INVERTER = 43.56ADC.

10. MAX SHORT CIRCUIT CURRENT OF INVERTERS WITH 5 STRINGS = I_{SC} * #STRINGS PER INVERTER = 9.03A * 5 STRINGS PER INVERTER = 45.15ADC.

11. MAX SHORT CIRCUIT CURRENT OF INVERTERS WITH 4 STRINGS = I_{SC} * #STRINGS PER INVERTER = 9.03A * 4 STRINGS PER INVERTER = 36.12ADC

12. MAX INPUT POWER ON INVERTERS WITH 5 STRINGS = #STRINGS PER INVERTER * #MODULES PER STRING * POWER OF MODULE =
    5 STRINGS PER INVERTER * 18 MODULES PER STRING * 410W = 36900W.

13. MAX INPUT POWER ON INVERTERS WITH 4 STRINGS = #STRINGS PER INVERTER * #MODULES PER STRING * POWER OF MODULE =
    4 STRINGS PER INVERTER * 19 MODULES PER STRING * 410W = 31160W.

14. MAX SYSTEM VOLTAGE = ((ΔT*(T_{COEFF_MODULE}/100))*(#MODULES PER STRING * $V_{OC\ MODULE}$) + (#MODULES PER STRING * $V_{OC\ MODULE}$).
    MAX SYSTEM VOLTAGE= (−41.70°C * (−0.34%/°C/100)) * (19 MODULES PER STRING * 42.79V) + (19 MODULES PER STRING * 42.79V) = 928.28VDC.

15. ABSOLUTE MAX OPERATING CURRENT OF SYSTEM = (KW AC RATING OF SYSTEM/(SERVICE VOLTAGE*√3)) = (125/(208√3))*1000 = 347.96A.

PHOTOVOLTAIC CIRCUIT DESIGN PARAMETERS	
MODULE MAXIMUM POWER OUTPUT	410W
$V_{MP\ MODULE}$	37.64V
$I_{MP\ MODULE}$	10.89A
$I_{SC\ MODULE}$	9.03A
$V_{OC\ MODUULE}$	42.79V
TEMPERATURE COEFF. OF V_{OC} OF MODULE	−0.34%/°C
MINIMUM DESIGN TEMPERATURE	−16.7°C
MAXIMUM DESIGN TEMPERATURE	34.22°C
AMBIENT TEMPERATURE FOR DESIGN	25°C
#MODULES PER STRING CONFIGURATION 1	18 MODULES
#MODULES PER STRING CONFIGURATION 2	19 MODULES
#STRINGS PER INVERTER CONFIGURATION 1 STRING CONFIGURATION 1	4 STRINGS
#STRINGS PER INVERTER CONFIGURATION 2 STRING CONFIGURATION 2	5 STRINGS
MIN INPUT VOLTAGE OF INVERTER (MPPT)	480V
ABSOLUTE MAX OPEN CIRCUIT VOLTAGE RATING OF INVERTER	1000V
MAXIMUM PV SHORT CIRCUIT CURRENT OF INVERTER	125A
SERVICE VOLTAGE	208V

1 BASIS OF DESIGN CALCULATIONS
N.T.S.

DC Voltage Drop Calculations

	SYSTEM			STRING					TOTALS	
	INVERTER	# of Strings Per Inverter	MPPT MPP/Mod X # of Mod	Run From Farthest String to Inverter (Ft)	String Cable Size	R (OHMS/K FT)	Imp (Amp)	Voltage Drop From String to Inverter	TOTAL VOLT DROP (V)	Worst Case % Volt Drop
	Cable Type →			COPPER XLPE 90°						
	25 KW INVERTER#1	4	678 Vdc	65 Ft	10	1.24	10.89 A	1.76	1.76	0.26
	25 KW INVERTER#2	4	715 Vdc	90 Ft	10	1.24	10.89 A	2.43	2.43	0.34
	25 KW INVERTER#3	4	715 Vdc	45 Ft	10	1.24	10.89 A	1.22	1.22	0.17
	25 KW INVERTER#4	5	678 Vdc	50 Ft	10	2.24	10.89 A	2.44	2.44	0.36
	25 KW INVERTER#5	5	678 Vdc	160 Ft	10	1.24	10.89 A	4.32	4.32	0.64
		22							AVG % =	0.35%

2 DC VOLTAGE DROP TABLE
N.T.S.

Circuit	Description	Voltage (V)	Equipment (kW)	Phases	Ampacity (A)	Wire Size	# Of Sets Per Phase	Type of Conductor	Resistance (Ω/1000ft)	Length of Run (ft)	Voltage Drop (V)	% VD	%VD (TOTAL)
R1	INV#1 TO PV-1	208	25	3	69.39	2	1	CU	0.201	20	0.483	0.23%	2.13%
R2	INV#2 TO PV-2	208	25	3	69.39	2	1	CU	0.201	10	0.242	0.12%	3.03%
R3	INV#3 TO PV-2	208	25	3	69.39	2	1	CU	0.201	75	1.812	0.87%	3.79%
R4	INV#4 TO PV-3	208	25	3	69.39	2	1	CU	0.201	10	0.242	0.12%	3.73%
R5	INV#5 TO PV-3	208	25	3	69.39	2	1	CU	0.201	15	0.362	0.17%	3.79%
B1	PNL PV-2 TO PV-1	208	50	3	138.79	2/0	2	CU	0.101	175	2.124	1.02%	3.91%
B2	PNL PV-3 TO PV-1	208	50	3	138.79	2/0	2	CU	0.101	250	3.569	1.72%	3.90%
B3	PNL PV-1 TO SDS	208	125	3	346.97	4/0	2	CU	0.0626	10	3.569	1.72%	1.90%
B4	SDS TO P.O.I.	208	125	3	346.97	4/0	2	CU	0.0626	20	0.376	0.18%	0.18%

3 AC VOLTAGE DROP TABLE
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DISBROW PARK
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Title
PV ELECTRICAL DESIGN CALCULATIONS

Project No.
192311093

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Drawing No.
PV-800

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7/8/2020 7:53:43 AM

ORIGINAL SHEET - ANSI D