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**CORDTSEN
DESIGN
ARCHITECTURE**
42 West Main Road
Middletown, RI 02842
CordtsenDesign.com
401.619.4689



REVISIONS:

DESCRIPTION:

SCALE:
DATE: NOVEMBER 22, 2024

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ARCHITECTURE**

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CODDINGTON COVE COMMONS

300 CODDINGTON HIGHWAY
MIDDLETOWN, RHODE ISLAND, 02842

Permit Set: November 22, 2024

DRAWING LIST

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- P4.0 PLUMBING SPECIFICATIONS
- P4.1 PLUMBING SPECIFICATIONS

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G1.0
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- GENERAL NOTES:**
- CONTRACTORS SHALL NOT SCALE THESE DRAWINGS FOR CONSTRUCTION PURPOSES. IN THE EVENT OF OMISSION OF NECESSARY DIMENSIONS OR INFORMATION, CONTRACTOR SHALL NOTIFY ARCHITECT, FIGURE AND CALCULATED DIMENSIONS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. ALL PLAN DETAILS AND WALL SECTIONS ARE ASSUMED TO BE TYPICAL CONDITIONS UNLESS DETAILED OR NOTED OTHERWISE.
 - VERIFY ALL DIMENSIONS, CONDITIONS, AND GRADES AT JOBSITE ALL CONTRACTORS SHALL COORDINATE THEIR WORK WITH OTHER TRADES AND REPORT DISCREPANCIES, PRIOR TO THEIR CONSTRUCTION, TO THE ARCHITECT FOR REVIEW AND CLARIFICATION OR ACTION.
 - VERIFY SIZE, LOCATIONS, AND CHARACTERISTICS OF ALL EQUIPMENT TO BE FURNISHED WITH MANUFACTURERS OR SUPPLIERS BEFORE BEGINNING CONSTRUCTION.
 - VERIFY SIZE AND LOCATION OF ALL OPENINGS FOR MECHANICAL AND ELECTRICAL EQUIPMENT AND RELATED WORK WITH CONTRACTORS INVOLVED AND EQUIPMENT TO BE FURNISHED. FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS.
 - VERIFY ALL ELEVATIONS AND DIMENSIONS OF STRUCTURAL ELEMENTS WITH ARCHITECTURAL DRAWINGS. IN COMPLIANCE WITH ACCA MANUAL 'J', NOTIFY ARCHITECT. THE CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR THEM. ALL DIMENSIONAL DISCREPANCIES ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
 - ALL WEATHER - EXPOSED SURFACES SHALL HAVE A WEATHER RESISTIVE BARRIER (WRB) TO PROTECT THE INTERIOR WALL COVERING. EXTERIOR OPENINGS SHALL BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WATERPROOF.
 - ALL DIMENSIONS ARE TO FACE OF STUDY/FRAMING UNLESS OTHERWISE NOTED.
 - 2x6 NOM. EXTERIOR WALL FRAMING & 2x4 NOM. INTERIOR WALL FRAMING, TYPICAL, UNLESS OTHERWISE NOTED.
 - ALTERATIONS, RENOVATIONS OR REPAIRS TO EXISTING ROOF/ CEILING, WALLS, & FLOOR CAVITIES SHALL BE INSULATED TO FULL DEPTH W/ INSULATION HAVING MIN. NOMINAL R-VALUE OF R3 PER INCH, UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO VERIFY FINAL FINISH SELECTIONS W/ OWNER.
 - NO WORK TO START UNIT APPROVED PLANS ARE OBTAINED FROM THE APPLICABLE BUILDING DEPARTMENT.
 - ALL WORK SHALL CONFORM TO NATIONAL, STATE, AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
 - ALL UNNOTED OR NON-VISIBLE EASEMENTS ARE THE RESPONSIBILITY OF THE OWNER/ BUILDER.
 - ANY OMISSIONS OR DISCREPANCIES OF PLANS AND/OR JOB CONDITIONS SHALL BE CLARIFIED WITH THE ARCHITECT/ ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - NO DEVIATIONS OR CHANGES TO THE STRUCTURAL SYSTEM SHALL BE MADE UNLESS APPROVED BY THE ARCHITECT/ ENGINEER.
 - CONTRACTOR TO VERIFY DIMENSIONS OF FOUNDATION WITH FLOOR PLANS BEFORE THE START OF FRAMING.
 - CONTRACTOR TO PROVIDE DRY WELLS AS REQUIRED BY STATE AND LOCAL CODES.
 - DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE.
 - OWNER/BUILDER ARE RESPONSIBLE FOR ALL INSPECTIONS, APPROVALS, CERTIFICATES, CERT. OF OCCUPANCY OR L.L. APPROVAL.
 - THESE SET OF DRAWINGS ARE THE PROPERTY OF CORDTSEN DESIGN ARCHITECTURE AND SHALL NOT BE ALTERED OR BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
 - THE ARCHITECT IS NOT RETAINED FOR SUPERVISION OF THE WORK AND IS RESPONSIBLE FOR DESIGN INTENT ONLY.
 - THE CONTRACTOR SHALL OBTAIN CERTIFICATE OF OCCUPANCY.
 - THE CONTRACTOR SHALL KEEP PREMISES REASONABLY CLEAN AT ALL TIMES. AT THE COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE ALL RUBBISH, WASTE MATERIALS, TOOLS, ETC., CLEAN GLASS AND LEAVE WORK BROOM CLEAN.
 - THE CONTRACTOR SHALL CARRY WORKMAN'S COMPENSATION AND GENERAL LIABILITY INSURANCE. ALL SHALL COMPLY WITH STATE AND LOCAL CODES AND ORDINANCES.
 - THE CONTRACTOR SHOULD FULLY GUARANTEE HIS WORK AND THE WORK OF THE SUB-CONTRACTORS FOR A PERIOD OF AT LEAST ONE YEAR AFTER COMPLETION OF PROJECT.
 - THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, ARCHITECT/ENGINEER, AND THEIR AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE WORK PROVIDED THAT ANY SUCH CLAIM, DAMAGE, LOSS OR EXPENSE (A) IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OR DEATH OR TO OR DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF INCLUDING THE LOSS OR USE RESULTING THEREFROM), (B) IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT ACT OR OMISSION OF THE CONTRACTOR, ANY SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM, OR ANYONE FOR WHOM ANY OF THEM MAY BE LIABLE REGARDLESS OF WHETHER OR NOT IT IS CAUSED IN PART BY A PARTY INDEMNIFIED HEREUNDER.
 - ALL MATERIALS, ASSEMBLIES, AND METHOD OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO FORMWORK, BRACING, NAILING, PLACING OF CONCRETE, ETC. ARE TO BE CAREFULLY SUPERVISED BY THE CONTRACTOR TO BE SURE THEY ARE IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, APPLICABLE CODES AND GOOD PRACTICE. DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS WILL NOT BE PERMITTED WITHOUT WRITTEN AUTHORIZATION OF THE ARCHITECT/ENGINEER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SHOP DRAWINGS NEEDED, UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS AND CONDITIONS PERTAINING ARE TO BE FIELD VERIFIED.
 - CONTRACTOR TO REMOVE & RELOCATE AS REQUIRED ALL EXISTING WORK WHICH INTERFERES WITH NEW CONSTRUCTION IN A WORKMAN LIKE MANNER.
 - ALL MATERIALS ARE TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS, UNLESS NOTED OTHERWISE.
 - PLEASE NOTE THAT THESE PLANS ARE PROTECTED AGAINST ANY UNAUTHORIZED USE UNDER FEDERAL LAW BY THE ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990 (AWCPA), WHICH HAS SEVERE PENALTIES.

CODE REFERENCES		
510 - BUILDING CODE COMMISSION		
RISBC-1	RHODE ISLAND BUILDING CODE	2021
RISBC-3	RHODE ISLAND PLUMBING CODE	2021
RISBC-4	RHODE ISLAND MECHANICAL CODE	2021
RISBC-5	RHODE ISLAND ELECTRICAL CODE	2021
RISBC-8	STATE OF RHODE ISLAND ENERGY CONSERVATION CODE	2021
RISRC-1	STATE REHABILITATION BUILDING & FIRE CODE FOR EXISTING STRUCTURES	2021
450 - FIRE SAFETY CODE BOARD OF APPEAL AND REVIEW		
	RHODE ISLAND FIRE SAFETY CODE SECTIONS 1 THRU 6	2021
RIFC	RHODE ISLAND FIRE CODE NFPA 1, 2018 WITH RHODE ISLAND AMENDMENTS	2021
RILSC	RHODE ISLAND LIFE SAFETY CODE NFPA 101, 2018 WITH RHODE ISLAND AMENDMENTS	2021
	RHODE ISLAND FIRE ALARM CODE NFPA 72, 2019 WITH RHODE ISLAND AMENDMENTS	2021
PROJECT INFORMATION		
PHASE 01: NEW CONSTRUCTION OF 1 OF 4 ONE-STORY, 14,610 SF, 12 TRADESMAN UNIT BUILDING.		
1. USE AND OCCUPANCY	RISBC-1: 306.2 MODERATE HAZARD FACTORY INDUSTRIAL = GROUP F-1	
2. BUILDING TYPE	RISBC-1: 602.5 TYPE V = TYPE V-B	
3. ALLOWABLE BUILDING HEIGHTS & AREAS	RISBC-1: TABLE 504.3 = 60' RISBC-1: TABLE 504.4 (WITH SPRINKLERS) = 2 STORIES RISBC-1: TABLE 506.2 (14,400 SF PROPOSED) = 34,000 SF	
4. OCCUPANT LOAD	RISBC-1: TABLE 1004.5 INDUSTRIAL AREA (PER UNIT) = 1,184 SF / 100 gross = 11.8 OCCUPANT LOAD TOTAL = 12	
FIRE RATINGS		
5. BUILDING TO HAVE SPRINKLERS AS REQUIRED.		
6. FIRE SEPARATION BETWEEN USES. ONE HOUR RATING PROVIDED BETWEEN UNITS	RISBC-1: TABLE 508.4 RISBC-1: TABLE 6.1.14.4.1 (b)	
7. FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HRS)	RISBC-1: TABLE 601 (TYPE V-B) ALL ELEMENTS ARE 0 HRS	

- MEANS OF EGRESS**
- SINGLE MEANS OF EGRESS
RILSC: 40.2.4.1.2 (NEW GENERAL INDUSTRIAL OCCUPANCY)
RISBC: 40.2.5.1 (COMMON PATH OF TRAVEL DOES NOT EXCEED 100 FEET WHEN PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM)
RISBC-1: TABLE 1006.2.1 (SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY) max. 100' common path of egress travel
RISBC-1: TABLE 1006.3.2(b) (MAXIMUM EXIT ACCESS TRAVEL DISTANCE OF 100 FEET)
 - MINIMUM NUMBER OF EXITS
RISBC-1: 1006.3.3 SINGLE EXIT SHALL BE PERMITTED IF ONE OF THE FOLLOWING CONDITIONS EXISTS.
 - OCCUPANT LOAD AND COMMON PATH OF EGRESS TRAVEL DOES NOT EXCEED VALUES IN TABLE 1006.3.2(2)
 - ROOMS, AREAS, AND SPACES COMPLYING WITH SECTION 1006.2.1 WITH EXITS THAT DISCHARGE DIRECTLY TO THE EXTERIOR AT THE LEVEL OF EXIT DISCHARGE, ARE PERMITTED TO HAVE ONE EXIT OR ACCESS TO A SINGLE EXIT.
 - TRAVEL DISTANCE
RISBC-1: TABLE 1017.2 (MAX EXIT ACCESS TRAVEL DISTANCE IS 250 FEET)
RISBC: 40.2.6.1 (MAX TRAVEL TO EXIT IS 250 FEET, WHEN PROTECTED BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM)
- WINDOWS**
- NEW EXTERIOR GLAZED DOORS TO BE WITH IMPACT RESISTANT GLASS
RISBC-1: 1609.2 PROTECTION OF OPENINGS.
IN WIND-BORNE DEBRIS REGIONS (TABLE 1608.1 & FIGURE 1609(A)), GLAZING IN BUILDINGS SHALL BE IMPACT RESISTANT...
- PLUMBING SYSTEMS**
- NUMBER OF PLUMBING FIXTURES: FACTORY/INDUSTRIAL
RISBC-1: TABLE 2902.1:
MALE/FEMALE: (1 PER 100)
- 1 WATER CLOSET & 1 LAVATORY
- 1 DRINKING FOUNTAIN (2902.6 ...NOT REQUIRED FOR OCC LOAD OF 15 OR FEWER)
- 1 SERVICE SINK WILL BE PROVIDED PER UNIT
 - RISBC-1: 2902.2 SEPARATE FACILITIES. WHERE PLUMBING FIXTURES ARE REQUIRED SEPARATE FACILITIES SHALL BE PROVIDED FOR EACH SEX. EXCEPTIONS:
2 ...NOT REQUIRED IN STRUCTURES OR TENANT SPACES WITH A TOTAL OCCUPANT LOAD, INCLUDING BOTH EMPLOYEES AND CUSTOMERS, OF 15 OR FEWER.
- ACCESSIBILITY**
- ADA DOOR CLEARANCES
ICC 117.1: FIGURE 404.2.3.2
ALLOW 18" ON PULL SIDE AND 12" ON PUSH SIDE
 - CLEAR WIDTH OF AN ACCESSIBLE ROUTE = 36"
ICC 117.1: FIGURE 403.5

ARCHITECTURAL SYMBOLS LEGEND	
	ADA 5'-0" DIA. TURNING CIRCLES
	DRAWINGS CALLOUT
	EXTERIOR ELEVATIONS
	INTERIOR ELEVATIONS
	BUILDING SECTION
	WALL SECTION
	GRID LINE
	INTERIOR DOOR TAG
	INTERIOR DOOR TAG
	WALL TAG
	WINDOW & EXTERIOR DOOR TAG
	PLUMBING FIXTURE & ACCESSORY
	CASEWORK TAG
	LIGHTING FIXTURE TAG
	REVISION TAG & REVISION CLOUD
	LEVEL INDICATOR
	ROOM TAG #999 SQ FT
	NOTE IDENTIFICATION BUBBLE
	CENTERLINE MARK
	SLOPED CEILING INDICATOR
	NORTH ARROW P=PROJECT NORTH N=TRUE NORTH
	ROOF PITCH MARKER (PLAN)
	ROOF PITCH MARKER (ELEVATION)

ARCHITECT & CONTRACTOR SITE PROGRESS INSPECTION NOTE:

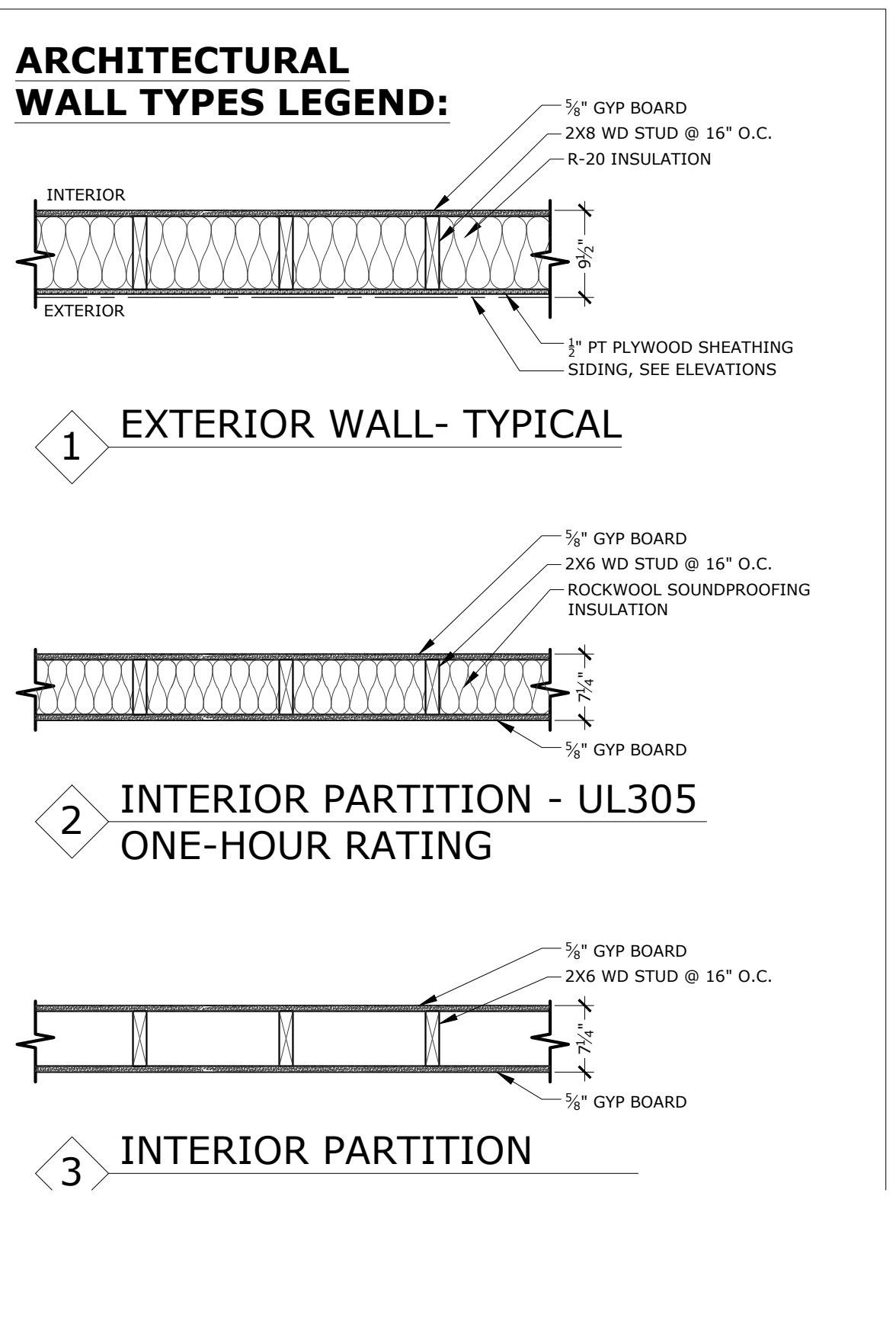
PRIOR TO RELEASE OF ANY AFFIDAVIT OR CERTIFICATES REQUIRED FROM THE ARCHITECT STIPULATING COMPLIANCE TO THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH PHOTOGRAPHS AND/OR ACCESS TO INSPECT & TEST ALL SUBSTANTIAL WORK COMPLETION & EXISTING FOOTINGS. NOTABLY BUT NOT EXCLUSIVE OF SYSTEMS THAT WILL BE BURIED OR CONCEALED. FAILURE TO DO SO MAY RESULT IN DESTRUCTIVE METHODS TO EXPOSE SYSTEMS AT THE CONTRACTORS EXPENSE.

ABBREVIATIONS:

8: AND	ELEV: ELEVATION	LUMBER
L: ANGLE	EOS: EDGE OF SLAB	LVL: LAMINATED VENEER LUMBER
@: AT (SPACING)	EP: ELECTRICAL PANEL	MAX: MAXIMUM
#: ROUND, NUMBER	EPDM: ETHYLENE-PROPYLENE-DIENE MEMBRANE	MECH: MECHANICAL
C: CENTER LINE	EQ: EQUAL EQUIP: EQUIPMENT	MTL: METAL
A/C: AIR CONDITIONING	EUC: ELECTRIC UNIT HEATER	MFR: MANUFACTURER
ACP: ACOUSTICAL CEILING PANEL	EW: ELECTRIC WATER COOLER	MIN: MINIMUM
ADA: AMERICANS WITH DISABILITIES ACT	EXTG: EXISTING	MISC: MISCELLANEOUS
ADJ: ADJUSTABLE	EXT: EXTERIOR	MO: MASONRY OPENING
AF: ABOVE FINISH FLOOR	FAC: FIRE ALARM CONTROL PANEL	MR: MOISTURE RESISTANT
AHU: AIR HANDLING UNIT	FD: FLOOR DRAIN	MTD: MOUNTED
ALT: ALTERNATE	FDN: FOUNDATION	N/A: NOT APPLICABLE
ALUM: ALUMINUM	FE: FIRE EXTINGUISHER	R: NORTH
APPROX: APPROXIMATE	FEC: FIRE EXTINGUISHER & CABINET	NIC: NOT IN CONTRACT
ARCH: ARCHITECT, ARCHITECTURAL	FIN: FINISHED	NPS: NOMINAL PIPE SIZE
AR: ABUSE RESISTANT BARRIER	FL: FLOOR	NTS: NOT TO SCALE
AVB: AIR AND VAPOR BARRIER	FLUR: FLUORESCENT	OC: ON CENTER
BIT: BITUMINOUS	FR: FIRE PROTECTION	OCC: OCCUPANCY
BLDG: BUILDING	FRP: FIBERGLASS REINFORCED POLYMER	OF: OVER FLOW
BSMT: BASEMENT	FT: FOOT, FEET	OD: OUTSIDE DIAMETER
B/ : BOTTOM OF	FTG: FOOTING	OH: OPPOSITE HAND
CAB: CABINET	GA: GAUGE, GAGE	OH: OVERHEAD
CD: CONSTRUCTION DOCUMENTS	GALV: GALVANIZED	OD: OUTSIDE DIAMETER
CF: CUBIC FEET/FOOT	GC: GENERAL CONTRACTOR	OSB: ORIENTED STRAND BOARD
CH: CEILING HEIGHT	GFCMU: GROUND-FACED CONCRETE MASONRY UNIT	OZ: OUNCE
CI: CONTROL JOINT	GT: GROUND FAULT INTERRUPTER	PA: PUBLIC ADDRESS
CL: CENTERLINE	GL: GLASS, GLAZING	PART: PARTIAL
CLR: CLEAR	GND: GROUND	PERP: PERPENDICULAR
CML: CONCRETE MASONRY UNIT	GYP BD: GYPSUM BOARD	PL: PLATE/PROPERTY LINE
CO: CLEAN OUT	HT: HEIGHT	PLM: PLASTIC LAMINATE
COL: COLUMN	HB: HOSE BIBB	PLYWD: PLYWOOD
CONC: CONCRETE	HOWD: HARD WOOD	POL: POLISHED
CONST: CONSTRUCTION	HGT: HEIGHT	PREFAB: PREFABRICATED
CONT: CONTINUOUS	HM: HOLLOW METAL	PSI: POUNDS PER SQUARE INCH
COMP: COMPUTER	HORIZ: HORIZONTAL	PSL: PARALLEL STRAND LUMBER
COMP: COMPOSITE	HP: HIGH POINT	PTD: PAINTED
CPT: CARPET	HPC: HIGH PERFORMANCE COATING	PT: PRESSURE TREATED
CT: CERAMIC TILE	HQ: HIGH QUALITY	PVC: POLYVINYL CHLORIDE
CUH: CABINET UNIT HEATER	HS: HOLLOW STRUCTURAL SECTION	CONDUIT
DBL: DOUBLE	HVAC: HEAT, VENTILATION, & AIR CONDITIONING	PAVMT: PAVEMENT
DD: DESIGN DOCUMENTS	HWH: HOT WATER HEATER	QTY: QUANTITY
DEMO: DEMOLITION	ID: INSIDE DIAMETER	R: RISER, RADIOUS
DEPT: DEPARTMENT	INCL: INCLUDE(D), (ING)	RCF: REFLECTED CEILING PLAN
DIA: DIAMETER	INT: INTERIOR	RC: REINFORCED CONCRETE PIPE
DIM: DIMENSION	JB: JUNCTION BOX	RD: ROOF DRAIN
DN: DOWN	JAN: JANITOR'S CLOSET	REF: REFERENCE
DWG-DRAWING	LAM: LAMINATED	REBAR: REINFORCING BAR
E: EAST	LAV: LAVATORY	RCPT: RECEPTACLE
EAF: EXHAUST FAN	LB: POUND	REIN: REINFORCE(D), (ING)
EIFS: EXTERIOR INSULATION AND FINISH SYSTEM	LF: LINEAR FEET	REQ: REQUIRED
EJ: EXPANSION JOINT	LH: LONG LEG HORIZONTAL	REV: REVISION
EL: ELEVATION	LLV: LONG LEG VERTICAL	RK: ROOM
ELEC: ELECTRICAL	LP: LIGHTING PANEL	RMV: RADON MITIGATION VENT
ELEV: ELEVATOR	LSL: LAMINATED STRAND LUMBER	RO: ROUGH OPENING
		RPM: REVOLUTIONS PER MINUTE
		RTU: ROOFTOP UNIT

USE GROUP	RHODE ISLAND COMMERCIAL ENERGY CODE CLIMATE ZONE 5											SKYLIGHT U-FACTOR	SKYLIGHT SHGC							
	ROOFS	WALLS ABOVE GRADE		FLOORS	SLAB ON GRADE		OPAQUE DOORS		VERTICAL FENESTRATION											
ALL OTHERS	R-2SCI	R-19 + R-11LS	R-38	R-11.4 CI	R-13 + R-13CI	R-13 + R-7.5 CI	R-13 + R-3.8 CI OR R-20	R-7.5 CI	R-10CI	R-30	R-10 FOR 24" BELOW GRADE	R-15 FOR 36" BELOW GRADE	U-0.37	R-4.75	0.38	0.45	0.77	0.40	0.50	0.40

- ENERGY/AIR SEALING NOTES:**
- ALL "MANDATORY" PROVISIONS OF CHAPTER 4 OF SBC-8 SHALL BE MET
 - ALL MECHANICAL HEATING AND COOLING CALCULATIONS SHALL BE BASED ON ACCA MANUAL 'J'
 - ALL EQUIPMENT SHALL BE SIZED AS PER ACCA MANUAL 'S'
 - T&B: TOP & BOTTOM T&G: TONGUE & GROOVE T/ : TOP OF T/F: TOP OF FRAME T/M: TOP OF MASONRY T/S: TOP OF STEEL T/W: TOP OF WALL TEL: TELEPHONE TEMP: TEMPORARY TPO: THERMOPLASTIC POLYOEFER ROOFING TYP: TYPICAL TV: TELEVISION UH: UNIT HEATER R: RISER, RADIOUS RCF: REFLECTED CEILING PLAN RC: REINFORCED CONCRETE PIPE RD: ROOF DRAIN REF: REFERENCE REBAR: REINFORCING BAR RCPT: RECEPTACLE REIN: REINFORCE(D), (ING) REQ: REQUIRED REV: REVISION RK: ROOM RMV: RADON MITIGATION VENT RO: ROUGH OPENING RPM: REVOLUTIONS PER MINUTE RTU: ROOFTOP UNIT



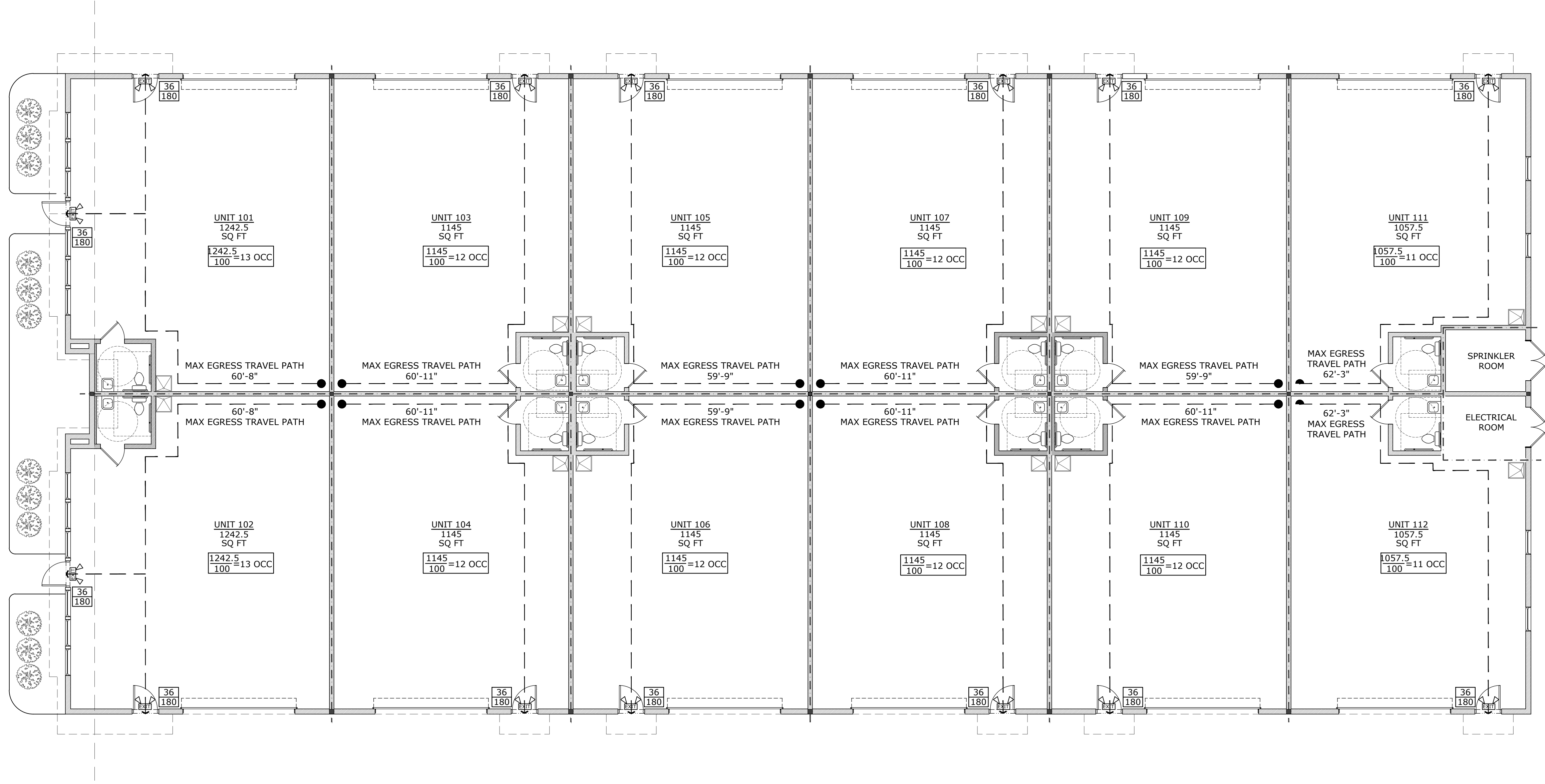
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AO.1



1 BUILDING 1: TRAVEL DISTANCE FLOOR PLAN
Scale: 1/8" = 1'-0"

**CODDINGTON COVE
COMMONS**
300 CODDINGTON HIGHWAY
MIDDLETOWN, RHODE ISLAND, 02842

DESCRIPTION: TRAVEL DISTANCE FLOOR PLAN
SCALE: 1/8"=1'-0"
DATE: NOVEMBER 22, 2024

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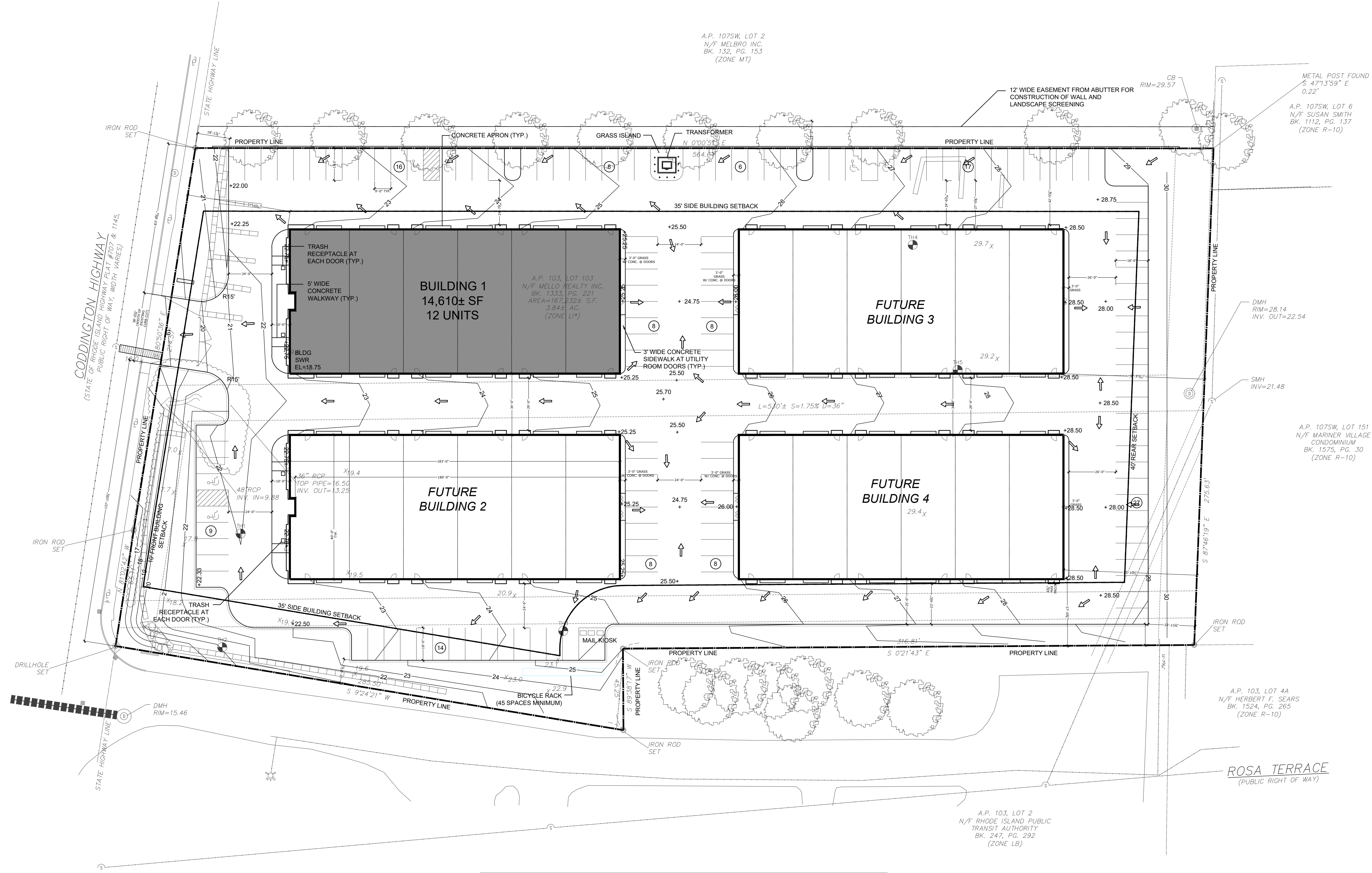


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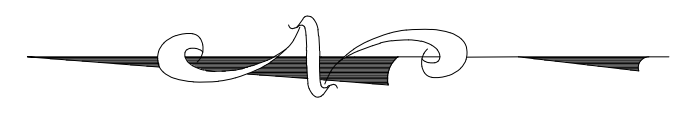
DESCRIPTION:	ARCHITECTURAL SITE PLAN
SCALE:	1/32"=1'-0"
DATE:	NOVEMBER 22, 2024

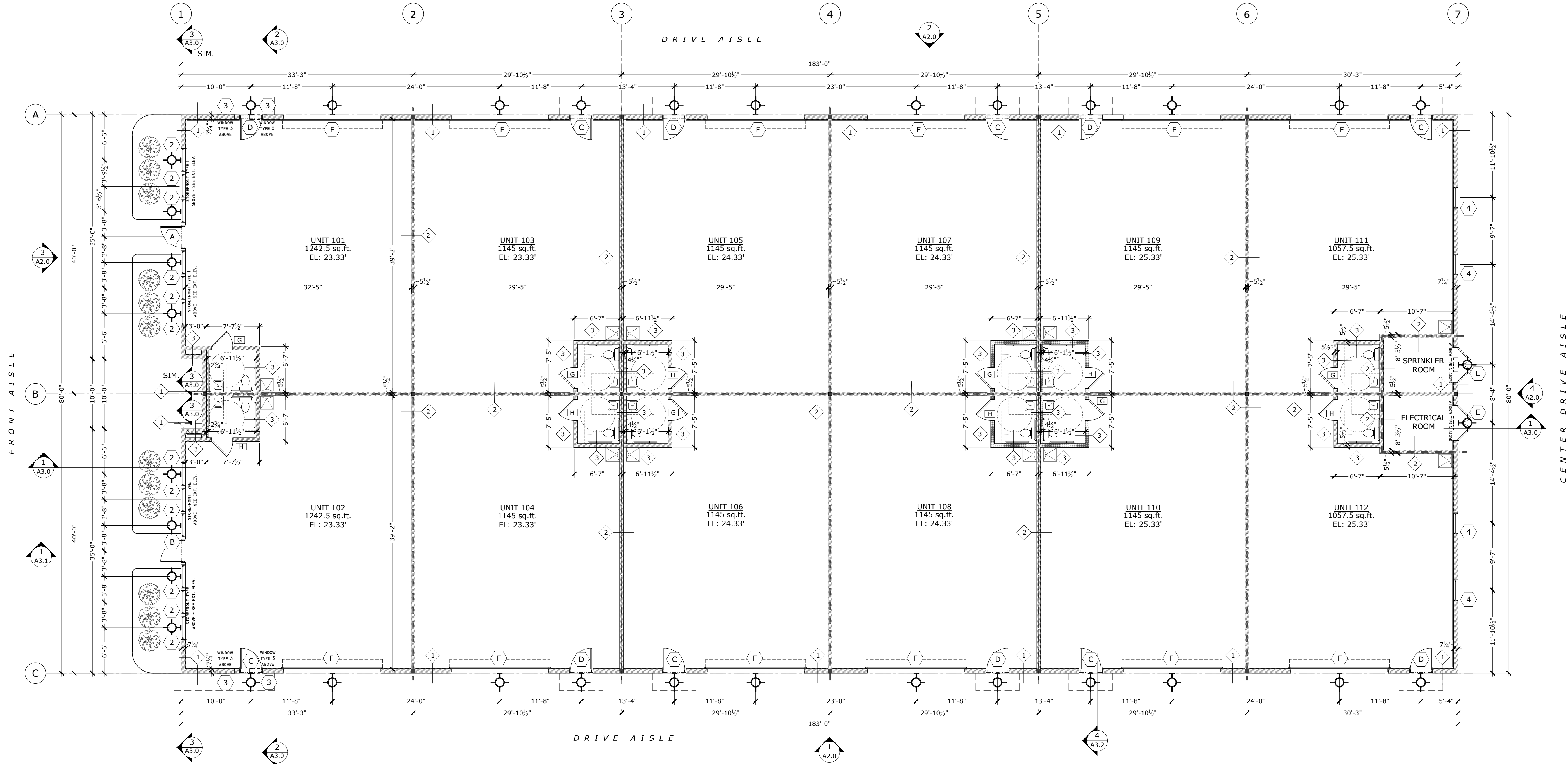
**CODDINGTON COVE
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300 CODDINGTON HIGHWAY
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A0.3



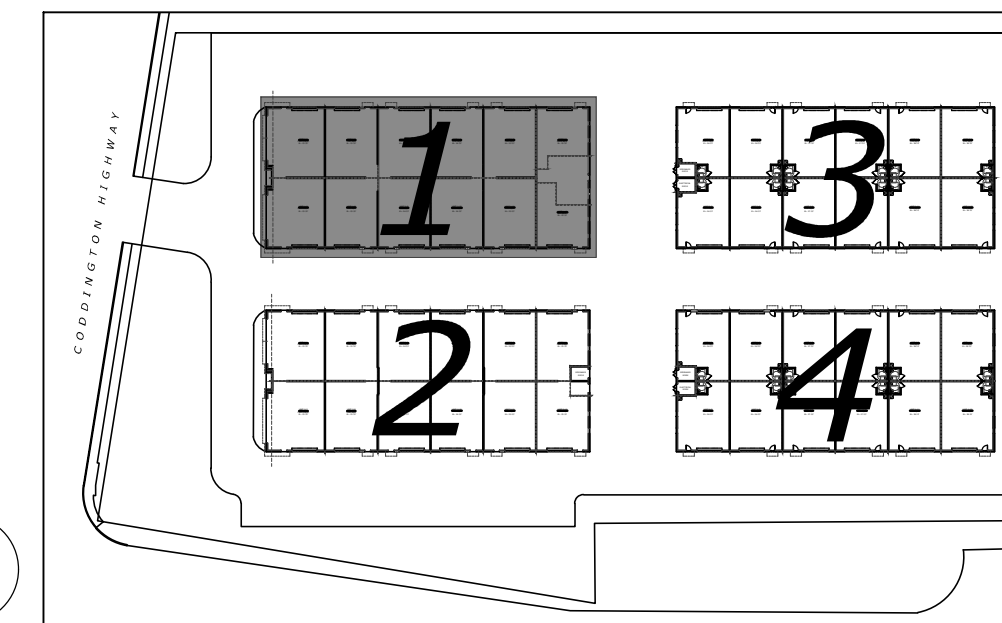
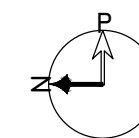
FOR REFERENCE ONLY:
SEE DRAWINGS BY NORTHEAST ENGINEERS FOR CIVIL DRAWINGS





1 BUILDING 1: FLOOR PLAN
Scale: 1/8" = 1'-0"

- GENERAL NOTES:
1. ALL DIMENSIONS FROM EITHER SIDE OF FACE OF STUD.
 2. OVERALL EXTERIOR DIMENSIONS TO EXTERIOR FACE OF STUD.



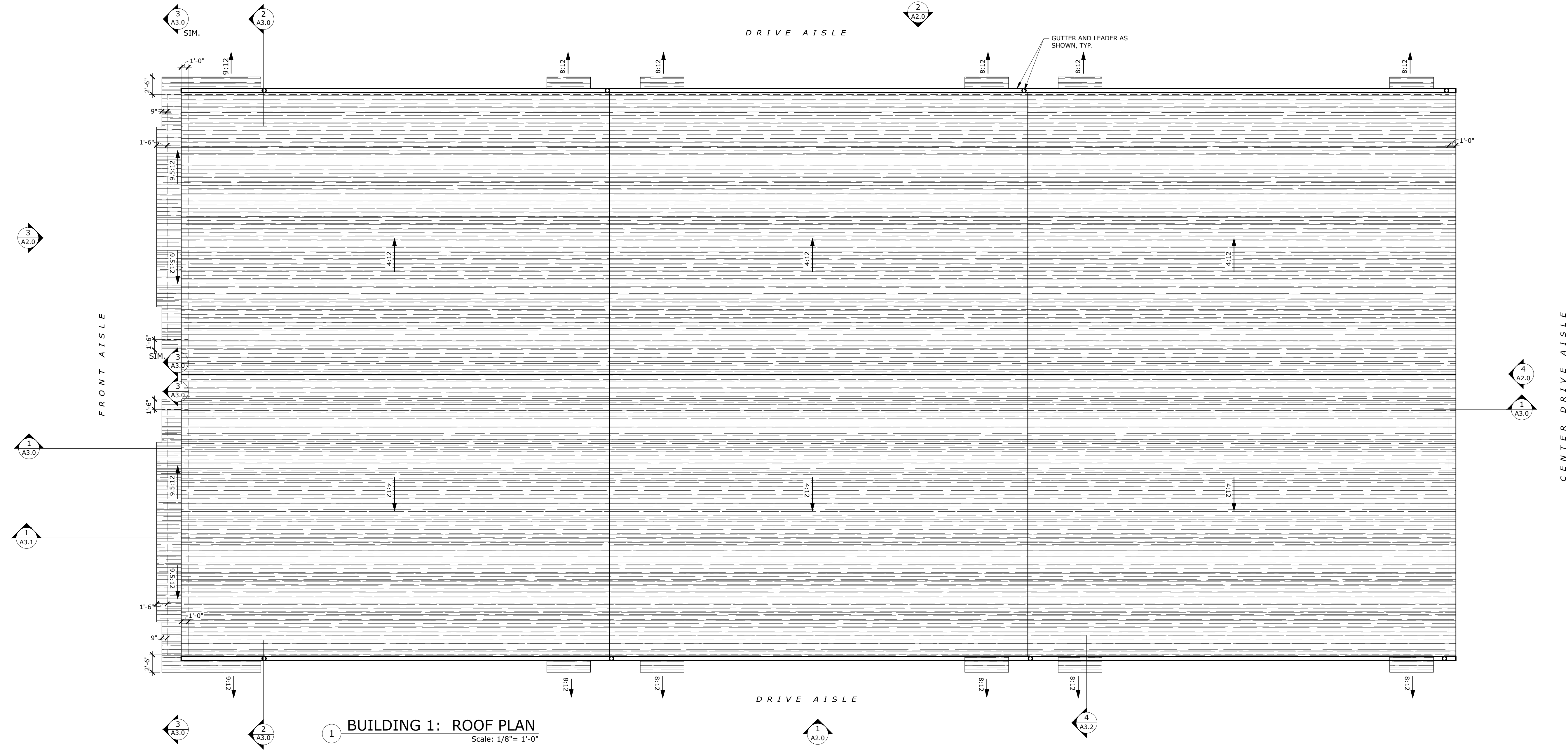
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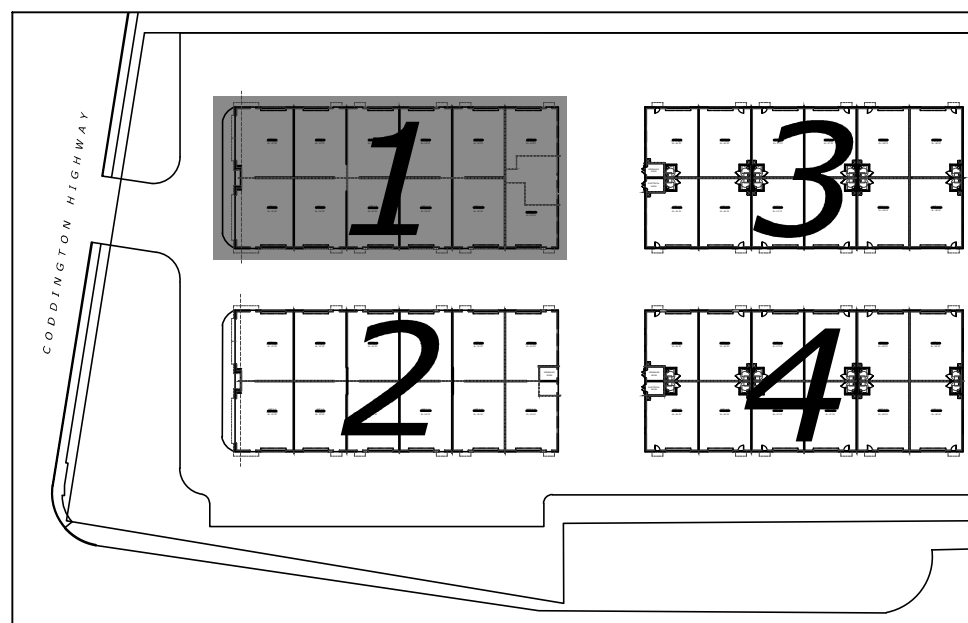
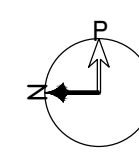
**CODDINGTON COVE
COMMONS**
300 CODDINGTON HIGHWAY
MIDDLETOWN, RHODE ISLAND, 02842

A1.0

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1 BUILDING 1: ROOF PLAN
Scale: 1/8" = 1'-0"



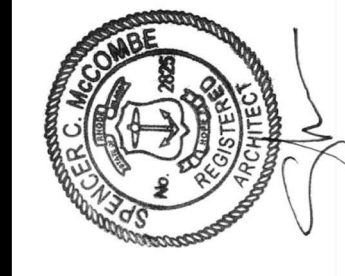
**CODDINGTON COVE
COMMONS**
300 CODDINGTON HIGHWAY
MIDDLETOWN, RHODE ISLAND, 02842

DESCRIPTION:
BUILDING 1: ROOF PLAN

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

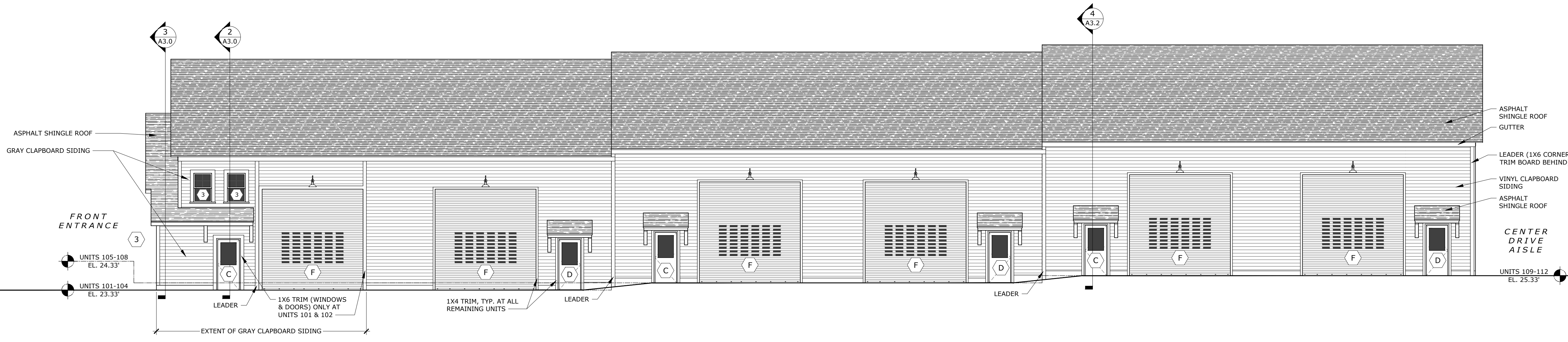
DATE: NOVEMBER 22, 2024

REVISIONS:

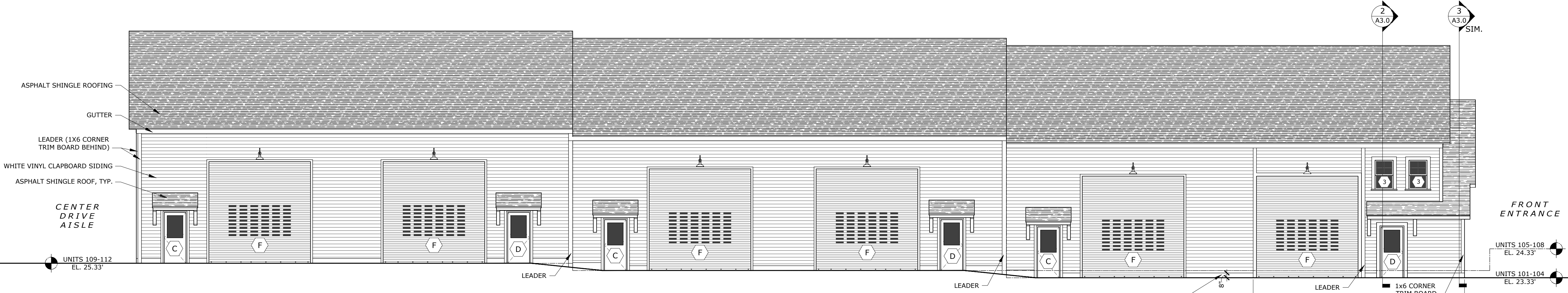


**CORDTSEN
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42 West Main Road
Middletown, RI 02842
CordtsenDesign.com
401.619.6689

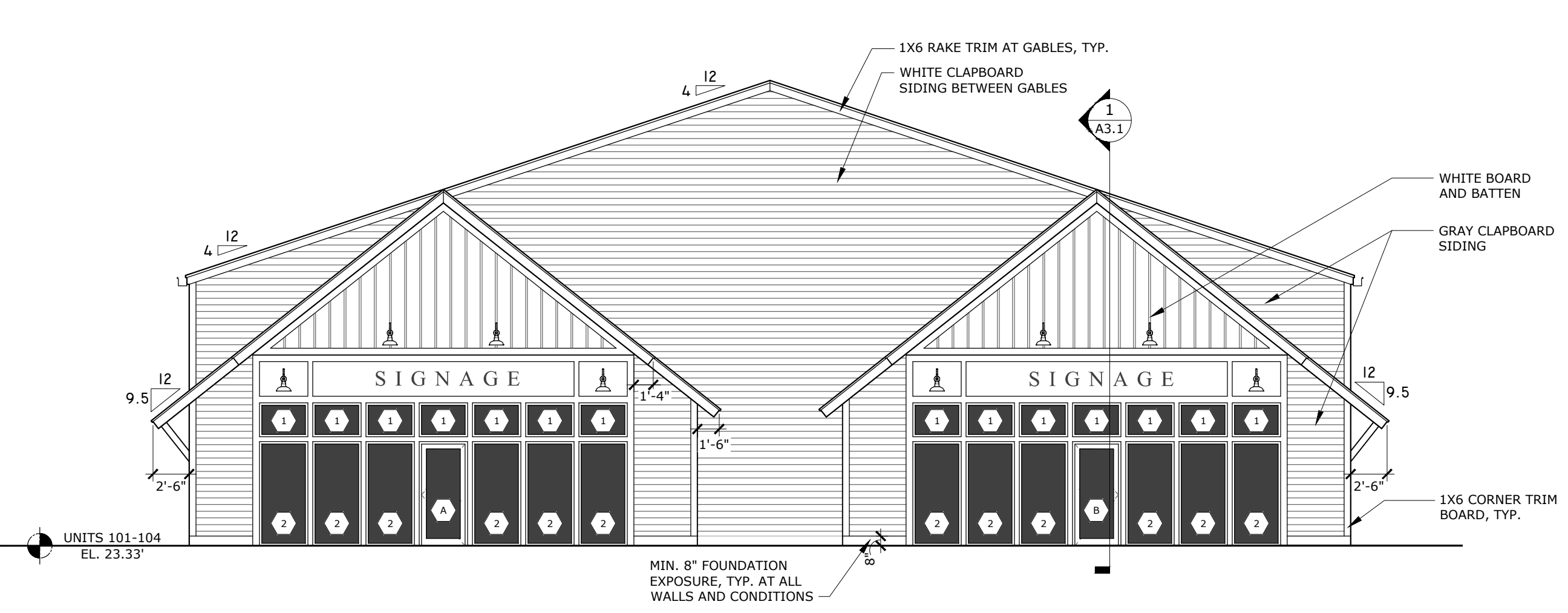




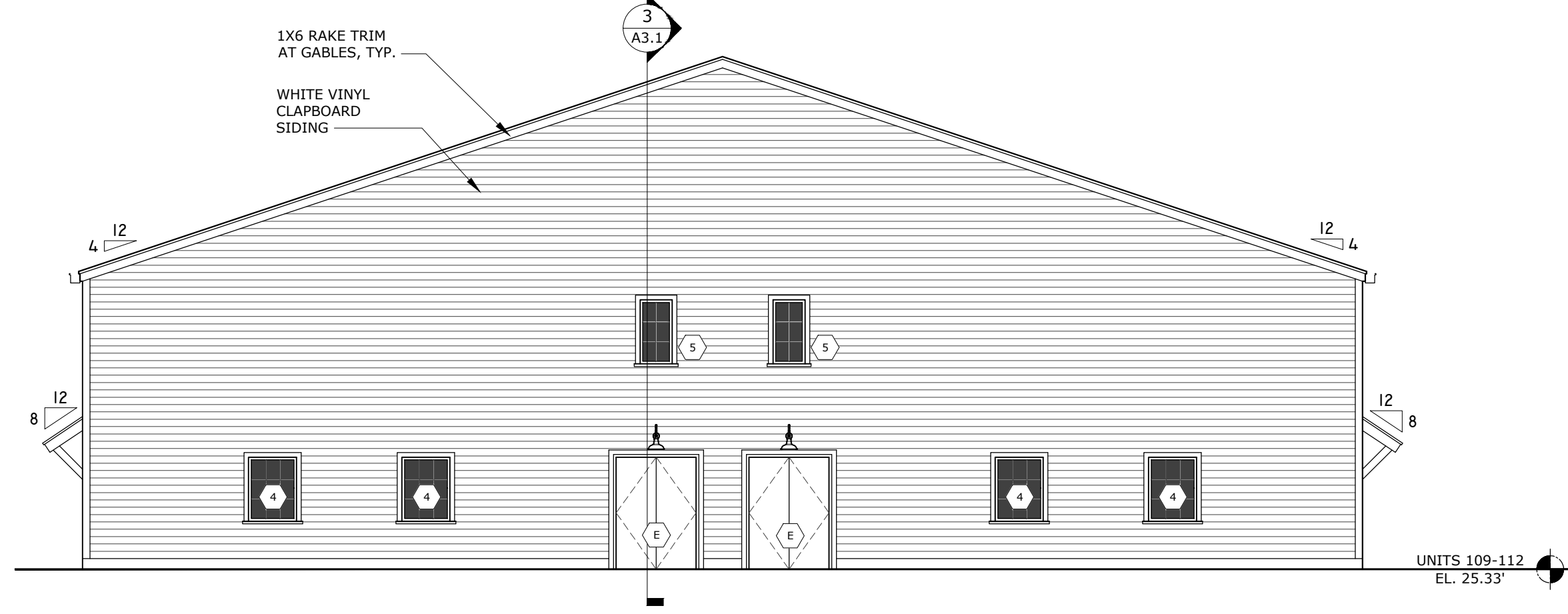
1 BUILDING 1: WEST ELEVATION
Scale: 1/8" = 1'-0"



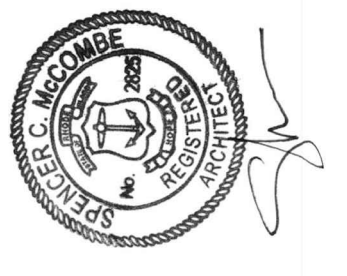
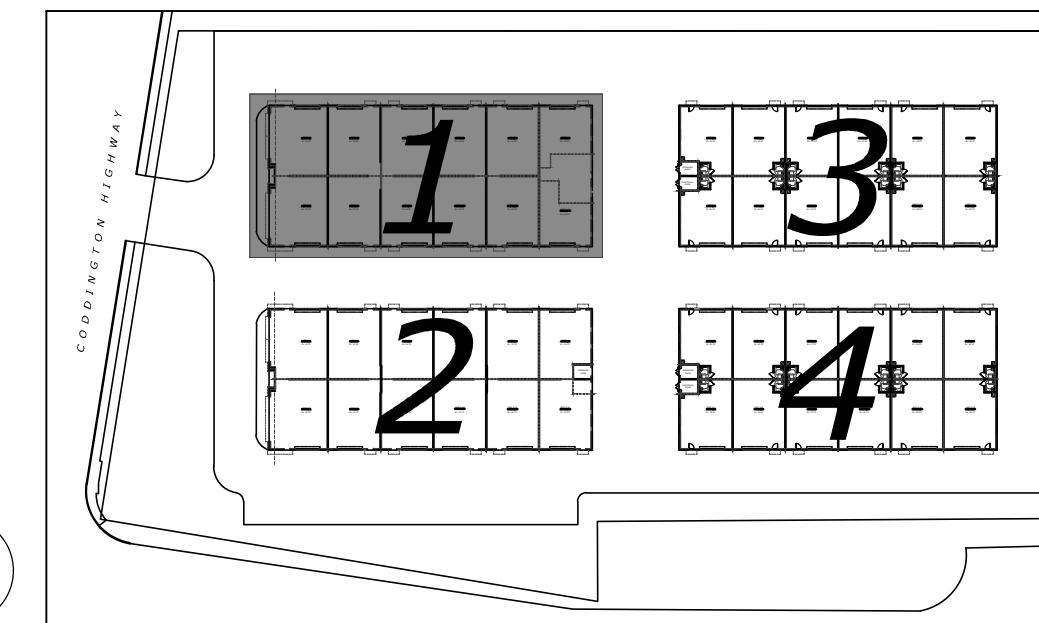
2 BUILDING 1: EAST ELEVATION
Scale: 1/8" = 1'-0"



3 BUILDING 1: NORTH ELEVATION
Scale: 1/8" = 1'-0"



4 BUILDING 1: SOUTH ELEVATION
Scale: 1/8" = 1'-0"



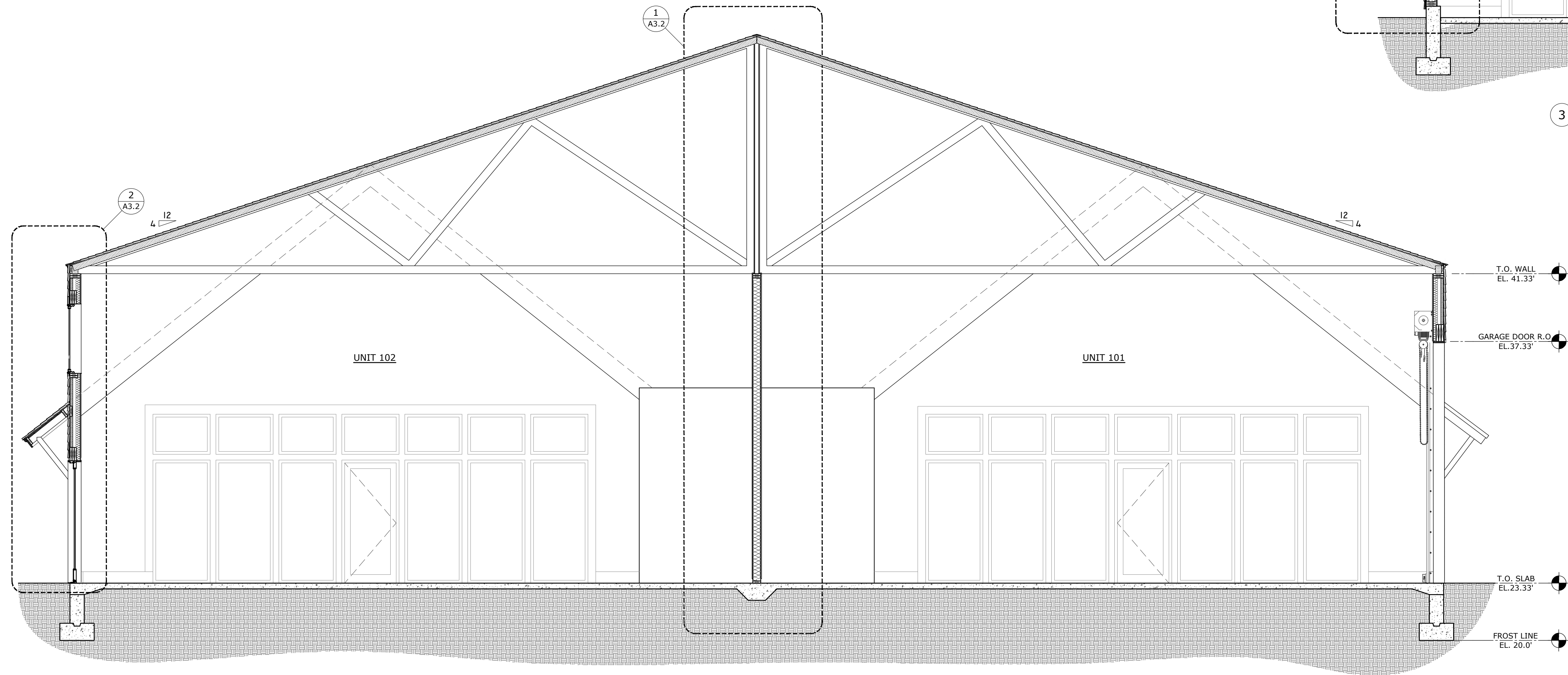
REVISIONS:

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SCALE:	1/8"=1'-0"
DATE:	NOVEMBER 22, 2024

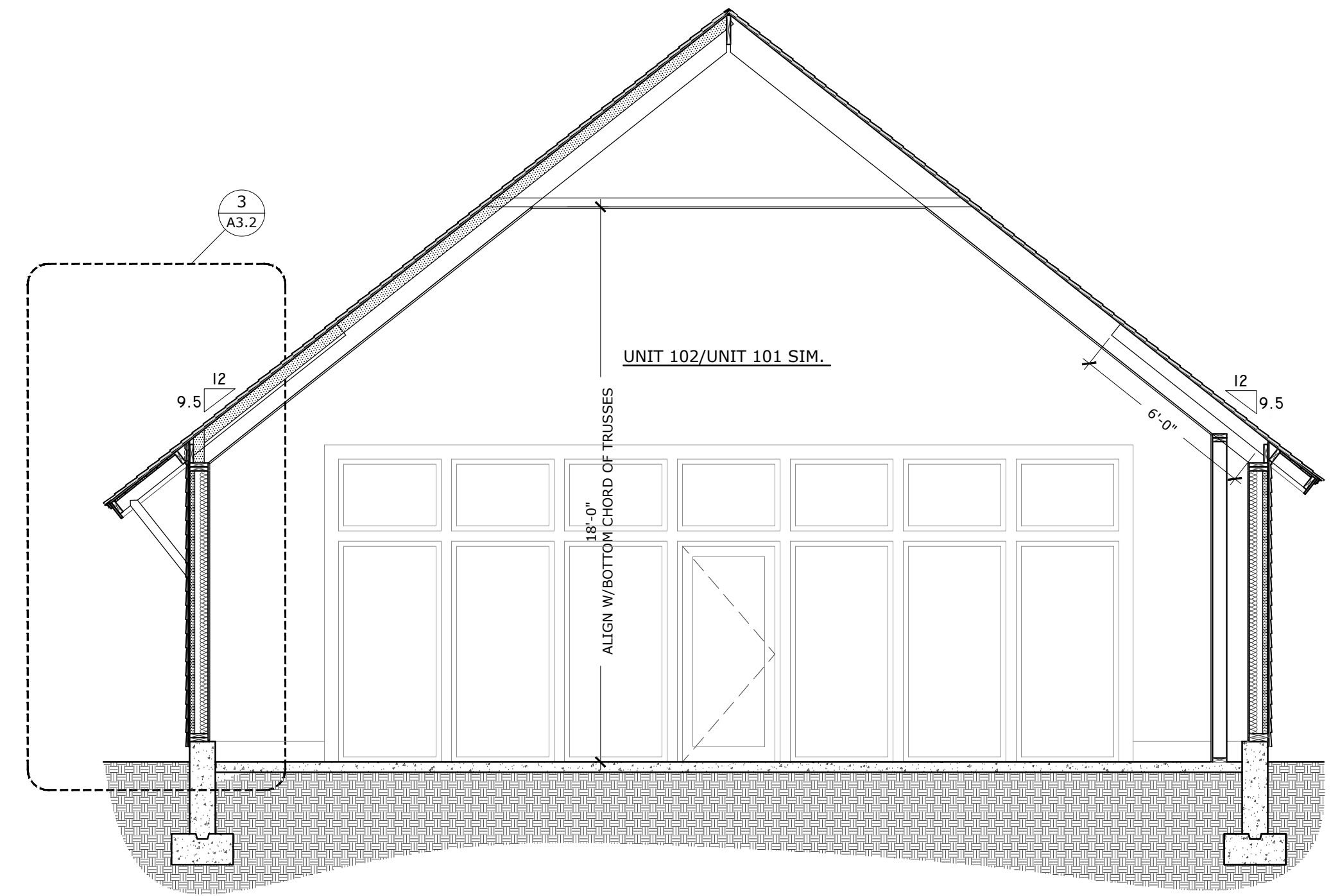
**CODDINGTON COVE
COMMONS**
300 CODDINGTON HIGHWAY
MIDDLETOWN, RHODE ISLAND, 02842

A2.0

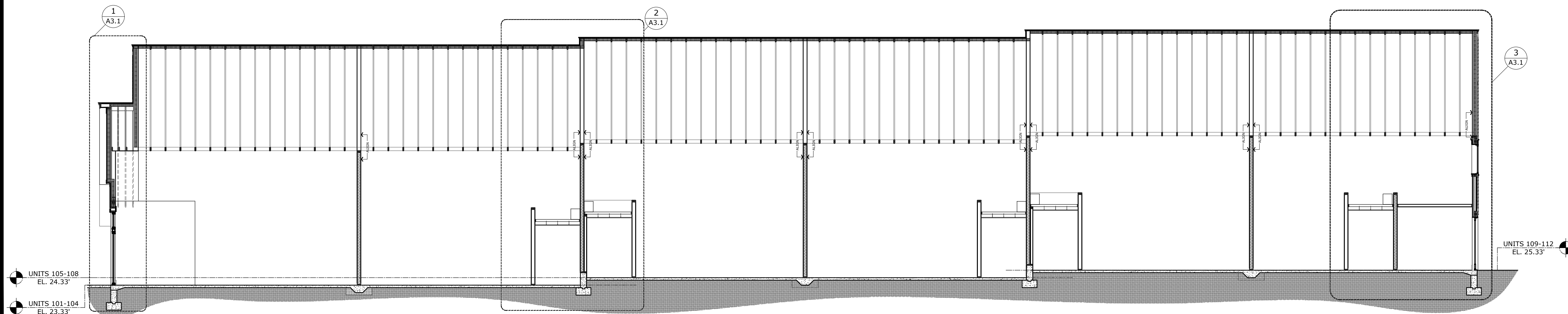
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2 BUILDING SECTION: B-B (BLDG. 1)
Scale: 1/4" = 1'-0"



3 BUILDING SECTION: C-C (BLDG. 1)
Scale: 1/4" = 1'-0"



1 BUILDING SECTION: A-A (BLDG. 1)
Scale: 1/8" = 1'-0"

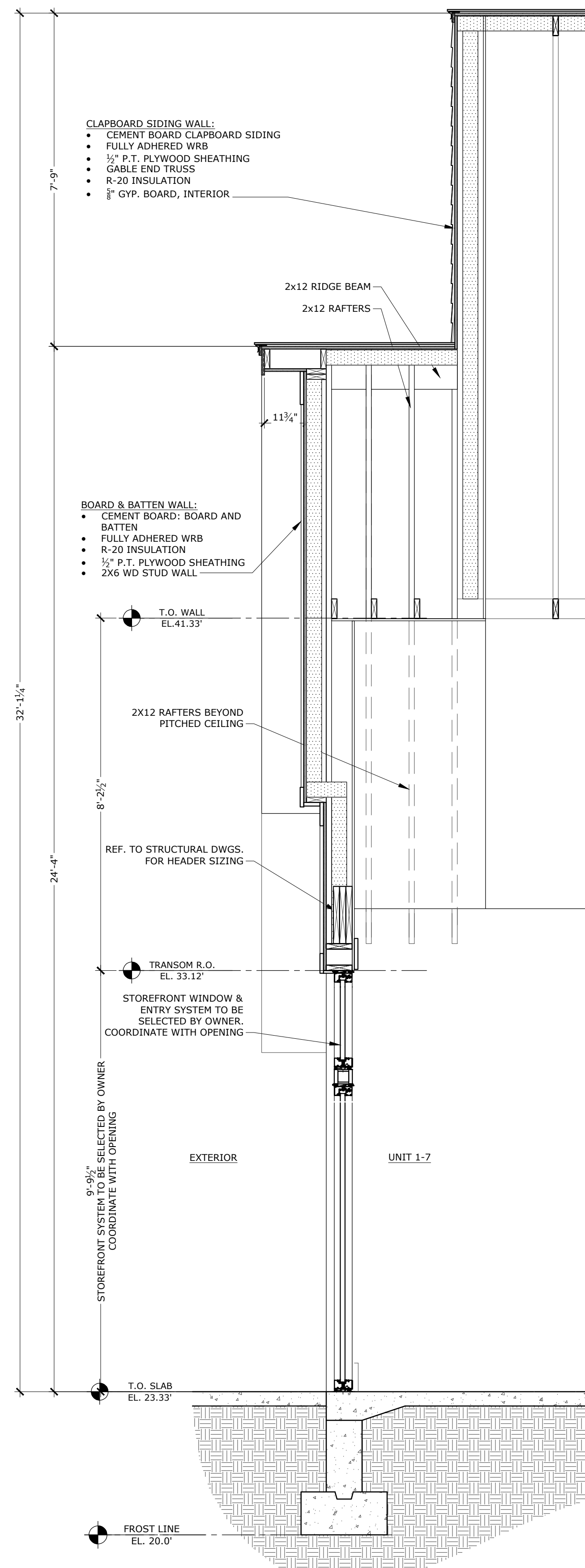
REVISIONS:

DESCRIPTION:
BUILDING SECTIONS

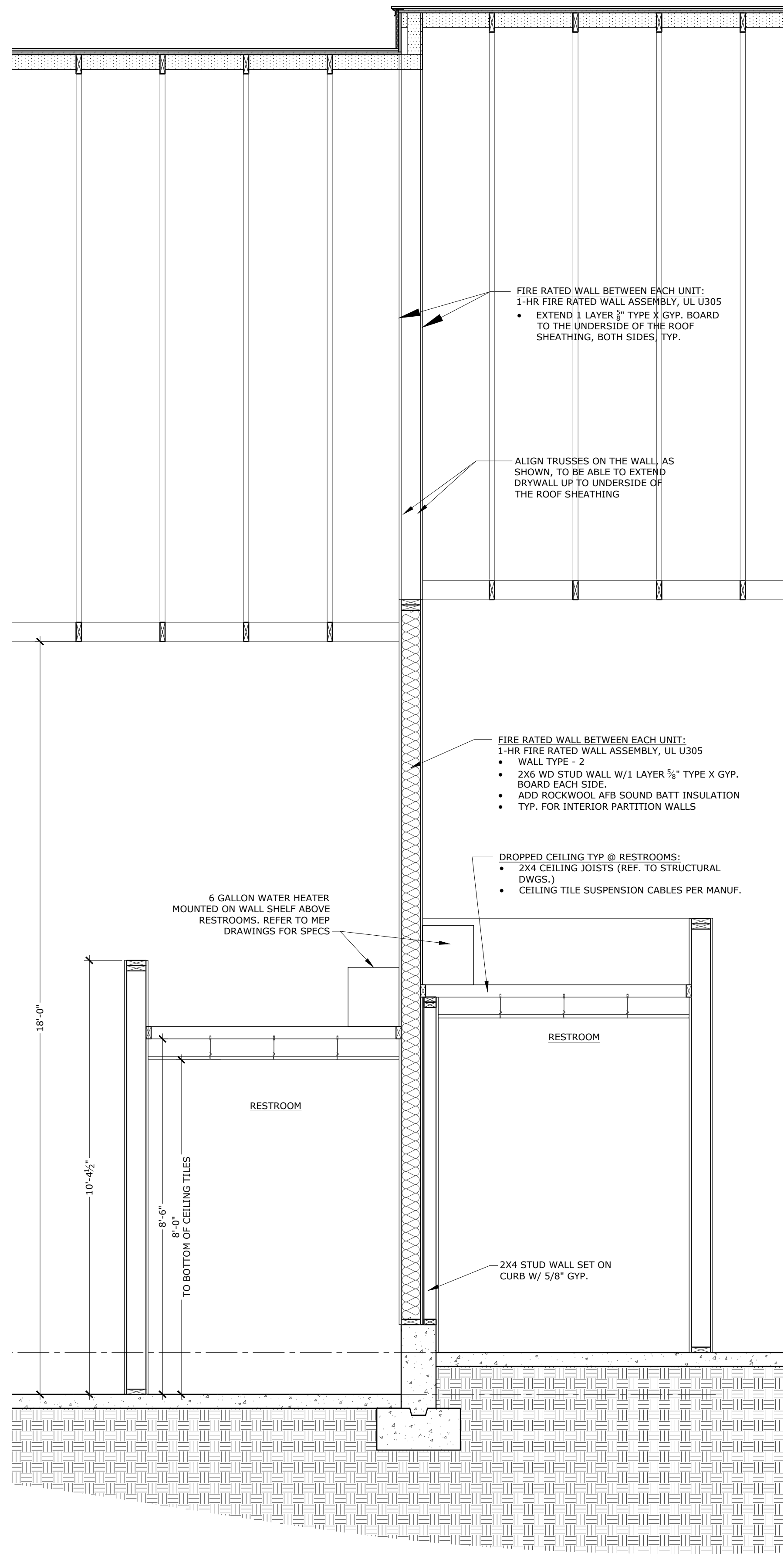
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DATE: NOVEMBER 22, 2024

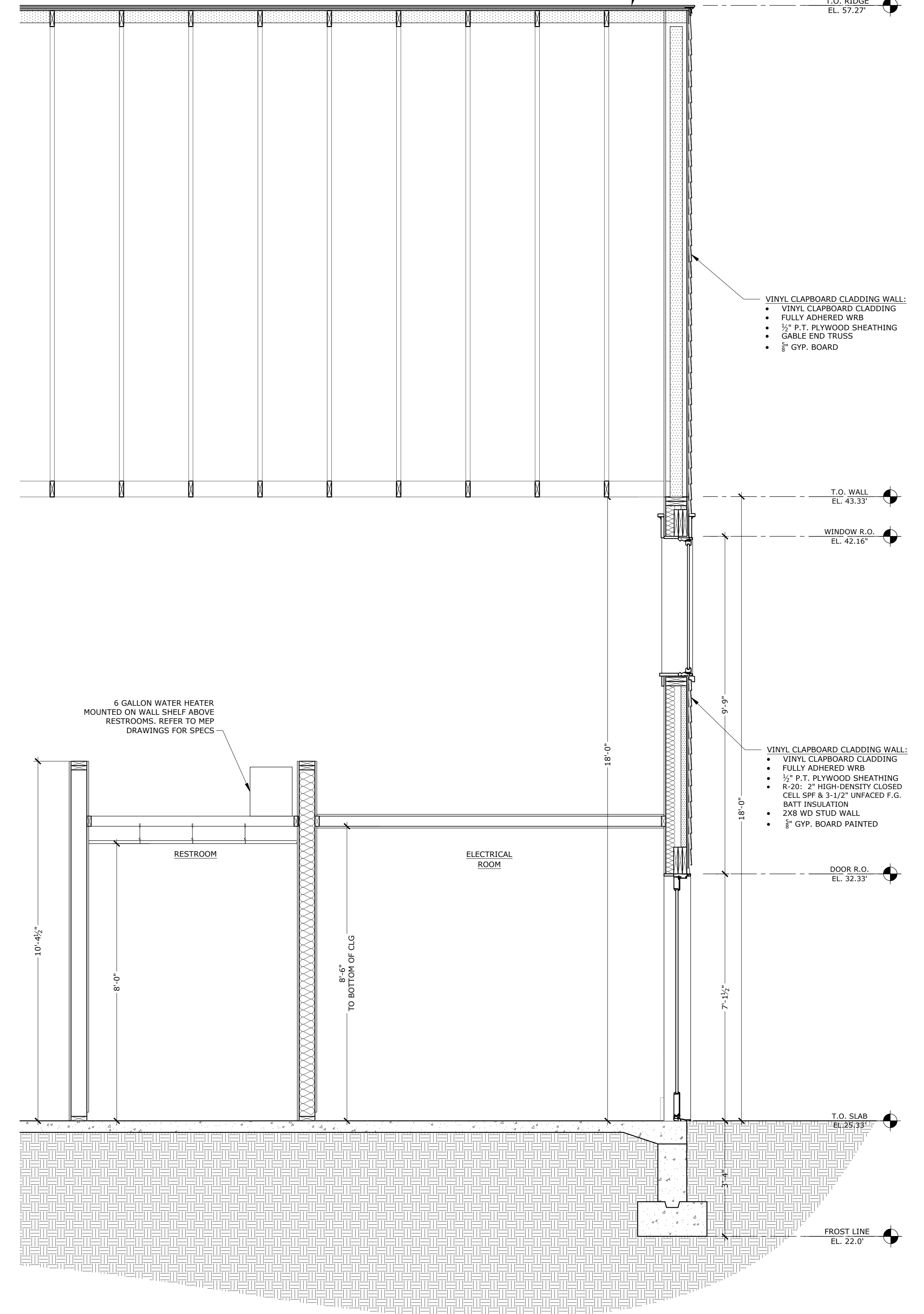
CODDINGTON COVE
COMMONS
300 CODDINGTON HIGHWAY
MIDDLETOWN, RHODE ISLAND, 02842



1 BUILDING SECTION
Scale: 1/2" = 1'-0"



2 BUILDING SECTION
Scale: 1/2" = 1'-0"



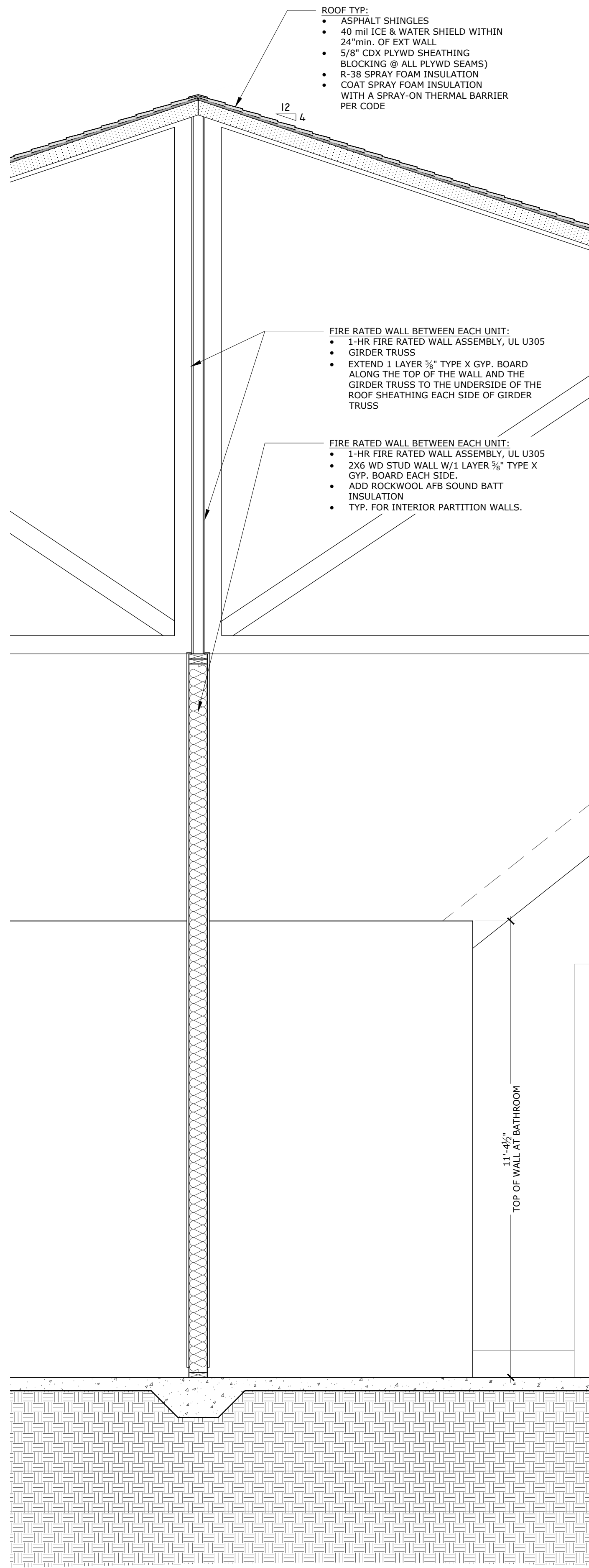
3 BUILDING SECTION
Scale: 1/2" = 1'-0"



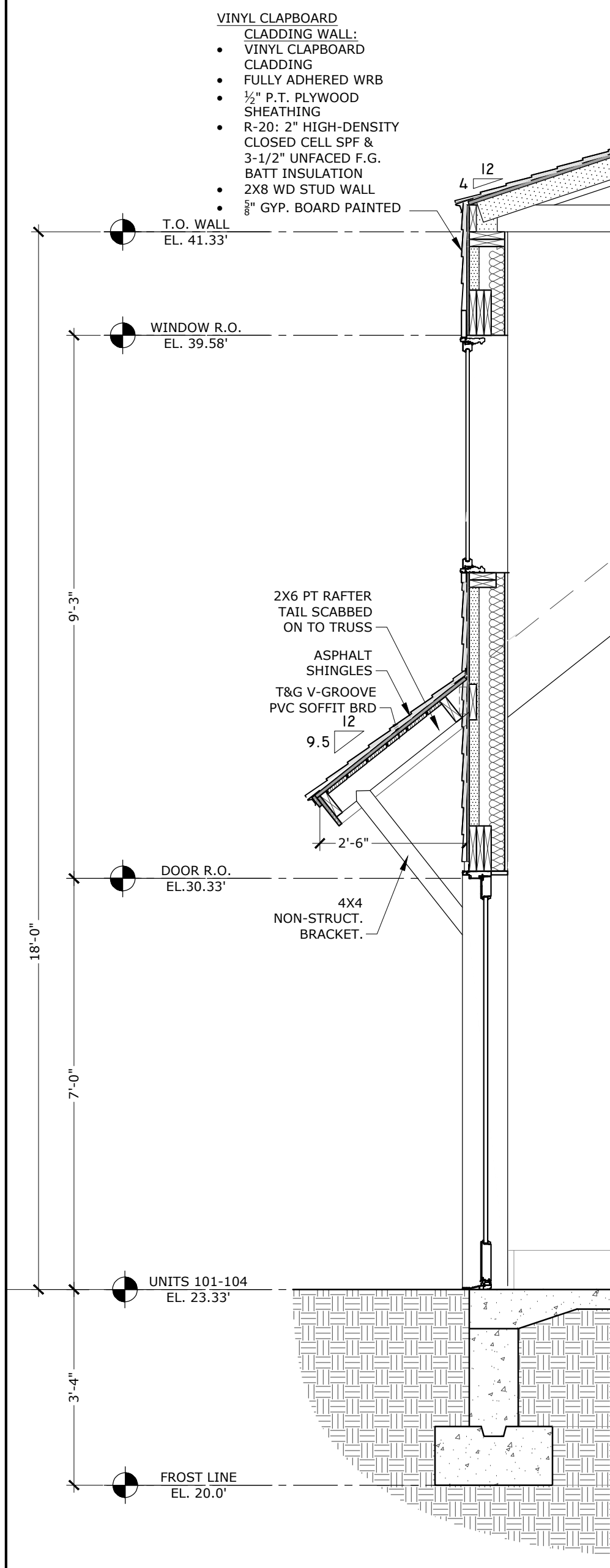
REVISIONS:

DESCRIPTION:	BUILDING SECTIONS
SCALE:	1/4" = 1'-0"
DATE:	NOVEMBER 22, 2024

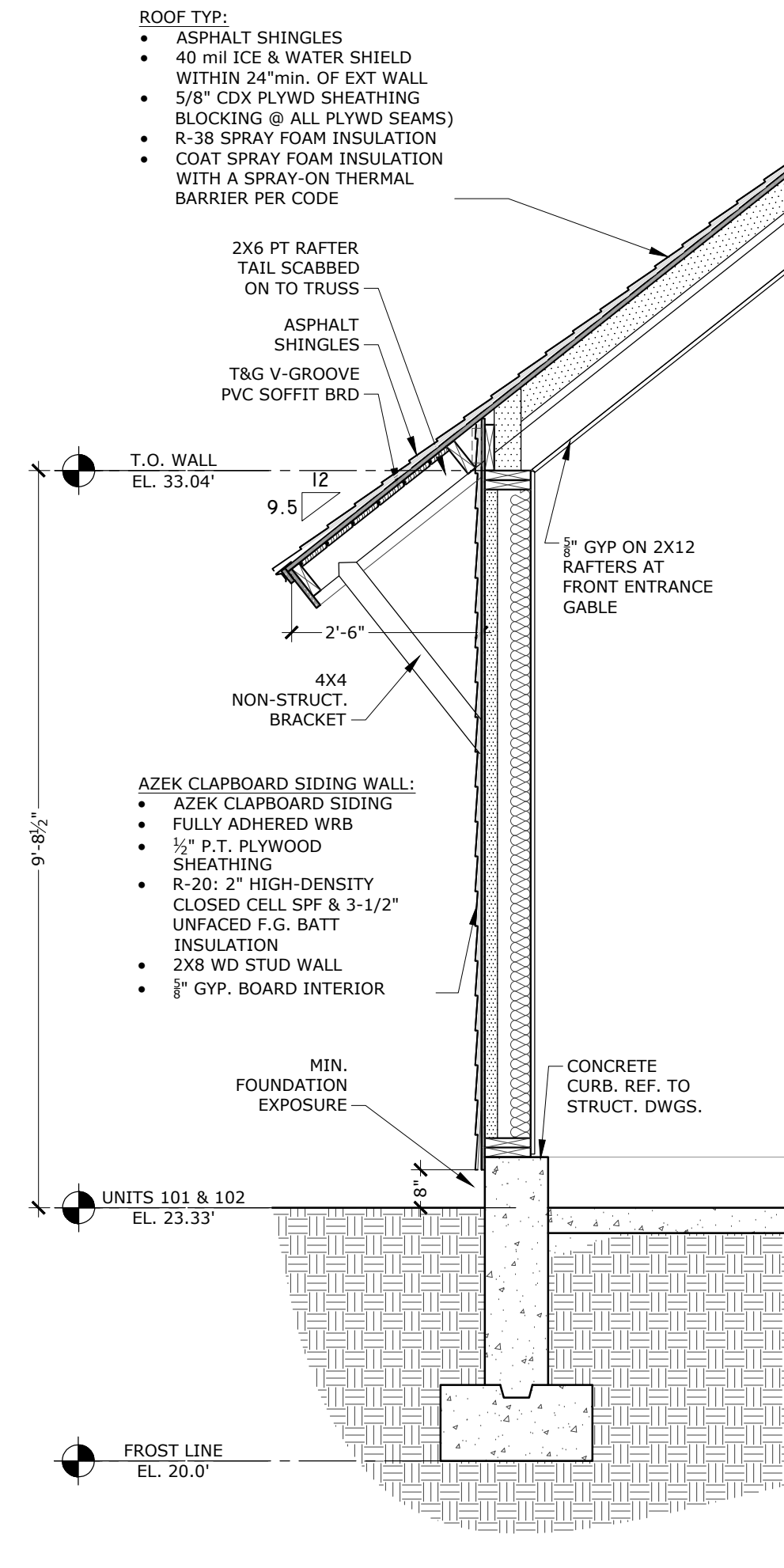
CODDINGTON COVE COMMONS
300 CODDINGTON HIGHWAY
MIDDLETOWN, RHODE ISLAND, 02842



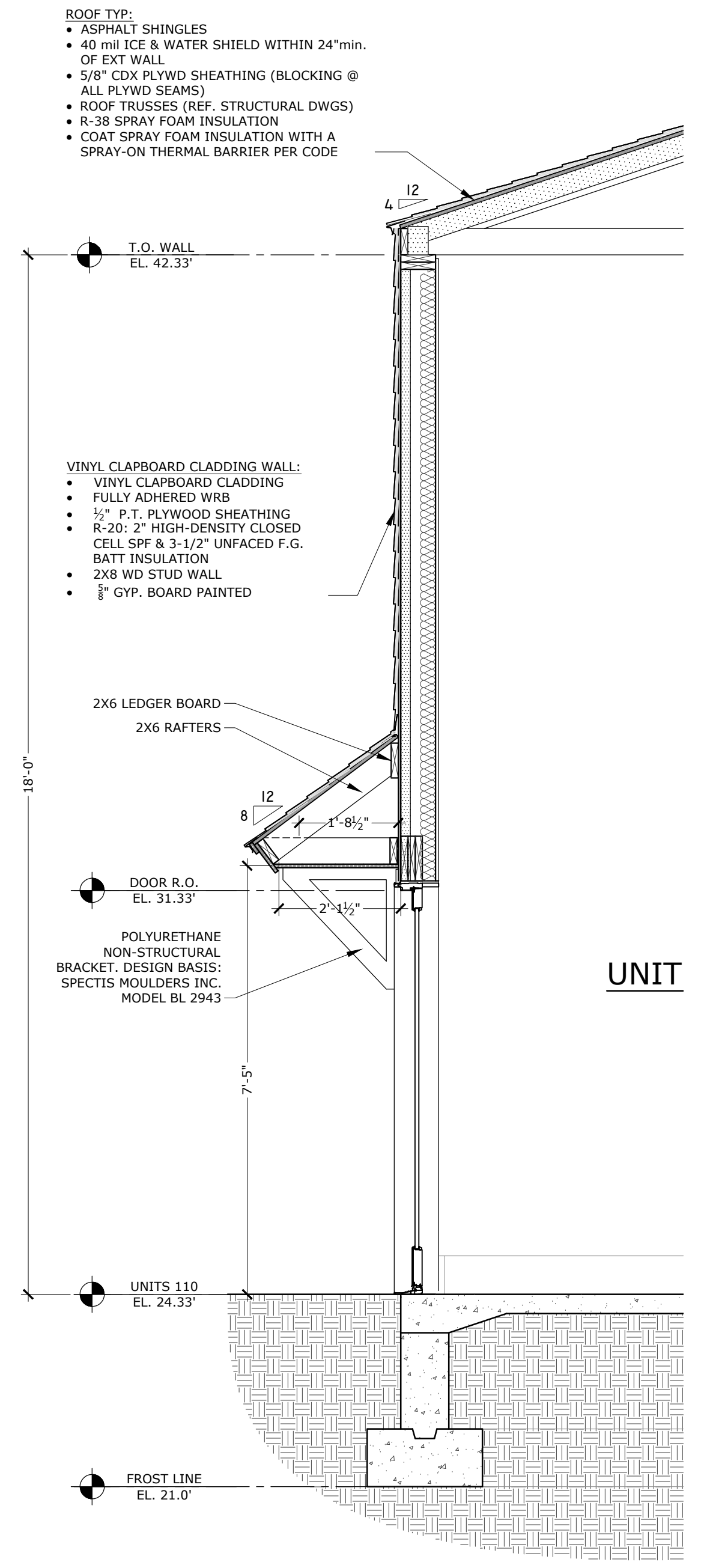
1 BUILDING SECTION
Scale: 1/2" = 1'-0"



2 BUILDING SECTION
Scale: 1/2" = 1'-0"



3 BUILDING SECTION
Scale: 1/2" = 1'-0"



4 BUILDING SECTION
Scale: 1/2" = 1'-0"

CDA

**CORTISEN
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42 West Main Road
Middletown, RI 02842
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401.619.6689

REVISIONS:

DESCRIPTION: BUILDING SECTIONS

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

DATE: NOVEMBER 22, 2024

**CODDINGTON COVE
COMMONS**

300 CODDINGTON HIGHWAY
MIDDLETOWN, RHODE ISLAND, 02842

A3.2

EXTERIOR WINDOW SCHEDULE								
- TYPICAL B.O. HEADER ABOVE SUBFLOOR FOR UNITS W/O TRANSOM UNIT IS 6'-11" AT GROUND FLOOR, FIRST FL, AND SECOND FL, UNLESS NOTED OTHERWISE ON PLANS/ELEV/SEC OR BY MANUFACTURER -								
- REFERENCE PLANS FOR JAMB DEPTH - ALL WINDOWS & DOORS SHALL MEET & BE LABELED AAMA/ WDMA/ CSA 101/ 1.5,2/ A440 - ALL GLAZING SHALL MEET & BE LABELED NFRC STANDARDS -								
NOTATION	CALL NO. & OPERATION	TYPE	MAKE / MODEL	UNIT SIZE WH (R.O. AS PER MANU.)	TEMPERED GLASS (C)	EXT / INT COLOR	GRILLE PATTERN ^(D)	HARDWARE / FINISH
1		STOREFRONT		3'-4" x 2'-4"	YES	BLACK/BLACK	SPEC. EQ. LT	N/A
2		STOREFRONT		3'-4" x 7'-2"	YES	BLACK/BLACK	SPEC. EQ. LT	OWNER TO SELECT
3		STOREFRONT (DOUBLE HUNG LOOK)		2'-6" x 4'-0"	NO	BLACK/BLACK	SPEC. EQ. LT	OWNER TO SELECT
4		STOREFRONT WINDOW		3'-0" x 4'-0"	NO	BLACK/BLACK	SPEC. EQ. LT	OWNER TO SELECT
5		STOREFRONT WINDOW		2'-0" x 4'-0"	NO	BLACK/BLACK	SPEC. EQ. LT	N/A

(A) GLASS TYPE TO BE DOUBLE IG, ARGON FILLED, HIGH PERFORMANCE LOW-E4 OR BETTER.
 (B) EMERGENCY ESCAPE OPENINGS AS PER SECTION R310 OF SBC-2: - NET CLEAR OPENING = 5.7 S.F. (5.0 S.F. FOR GRADE FLOOR WINDOWS) - NET CLEAR HEIGHT = 24" - NET CLEAR WIDTH = 20" - MAXIMUM SILL HEIGHT = 44"
 (C) GLAZING INSTALLED IN HAZARDOUS LOCATIONS AS DEFINED IN SECTION R308.4 OF SBC-2 SHALL BE SAFETY GLAZING.
 (D) GRILLES TO BE PERMANENT 7/8" SIMULATED DIVIDED LIGHTS UNLESS NOTED OTHERWISE.
 (E) PROVIDE WINDOW OPENING CONTROL DEVICES (W.O.C.D.) THAT COMPLY WITH ASTM F2090 FOR OPERABLE UNITS W/ SILLS MORE THAN 72" ABOVE GRADE AND LESS THAN 24" A.F.F.
 (F) PROVIDE CORROSION RESISTANT HARDWARE SUITABLE FOR COSTAL ENVIRONMENT

*** ALL WINDOWS AND DOORS W/GLAZING MUST BE IMPACT RATED ***

EXTERIOR DOOR SCHEDULE								
- TYPICAL B.O. HEADER ABOVE SUBFLOOR FOR UNITS W/O TRANSOM UNIT IS 6'-11" AT GROUND FLOOR, FIRST FL, AND SECOND FL, UNLESS NOTED OTHERWISE ON PLANS/ELEV/SEC OR BY MANUFACTURER -								
- REFERENCE PLANS FOR JAMB DEPTH - ALL WINDOWS & DOORS SHALL MEET & BE LABELED AAMA/ WDMA/ CSA 101/ 1.5,2/ A440 - ALL GLAZING SHALL MEET & BE LABELED NFRC STANDARDS -								
NOTATION	CALL NO.	DOOR SWING	TYPE / PANEL STYLE	MAKE / MODEL ^(E)	UNIT SIZE WH	TEMPERED GLASS (C)	EXT / INT COLOR	HARDWARE / FINISH
A		RH	OUTSWING STOREFRONT		3'-0" x 7'-0"	YES	BLACK/BLACK	OWNER TO SELECT
B		LH	OUTSWING STOREFRONT		3'-0" x 7'-0"	YES	BLACK/BLACK	OWNER TO SELECT
C		LH	INSWING W/ HALF LITE		3'-0" x 7'-0"	YES	GRAY/GRAY	OWNER TO SELECT
D		RH	INSWING W/ HALF LITE		3'-0" x 7'-0"	YES	GRAY/GRAY	OWNER TO SELECT
E		N/A	DOUBLE DOORS - NO LITE		2'-6" x 7'-0"	NO	GRAY/GRAY	OWNER TO SELECT
F		N/A	GARAGE DOOR		14'-0" x 14'-0"	NO	GRAY/GRAY	OWNER TO SELECT

(A) GLASS TYPE TO BE DOUBLE IG, ARGON FILLED, HIGH PERFORMANCE LOW-E4 OR BETTER.
 (B) EMERGENCY ESCAPE OPENINGS AS PER SECTION R310 IN SBC-2: - NET CLEAR OPENING = 5.7 S.F. (5.0 S.F. FOR GRADE FLOOR WINDOWS) - NET CLEAR HEIGHT = 24" - NET CLEAR WIDTH = 20" - MAXIMUM SILL HEIGHT = 44"
 (C) GLAZING INSTALLED IN HAZARDOUS LOCATIONS AS DEFINED IN SECTION R308.4 OF SBC-2 SHALL BE SAFETY GLAZING.
 (D) GRILLES TO BE PERMANENT 7/8" SIMULATED DIVIDED LIGHTS UNLESS NOTED OTHERWISE.
 (E) FOR OVERHEAD GARAGE DOORS PROVIDE 1/2" LITMASTER, ELITE SERIES 3585 BELT DRIVE WITH REMOTE CONTROL AUTOMATIC OPENER, EXTERIOR TOUCH KEY PADS, TRACKS AND WEATHER-STRIPPING FOR A COMPLETE OPERATIONAL SYSTEM. PROVIDE SHOP DRAWINGS TO ARCHITECT FOR REVIEW.
 (F) PROVIDE CORROSION RESISTANT HARDWARE SUITABLE FOR COSTAL ENVIRONMENT

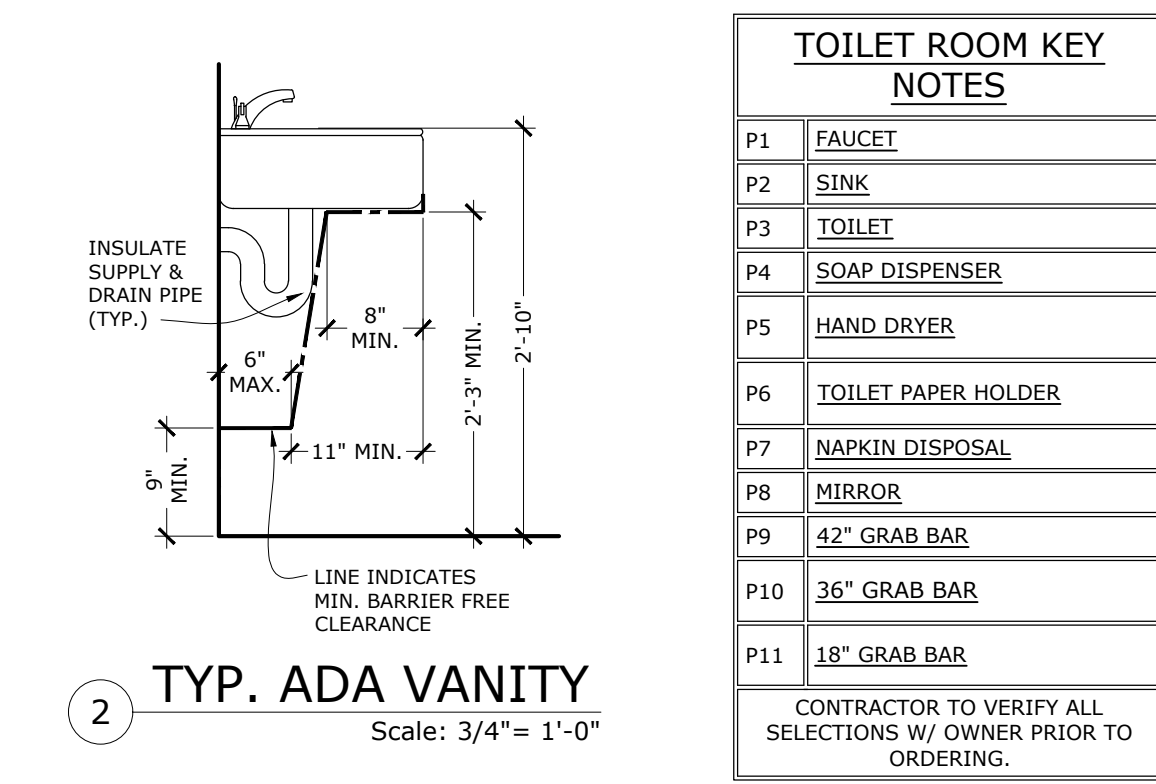
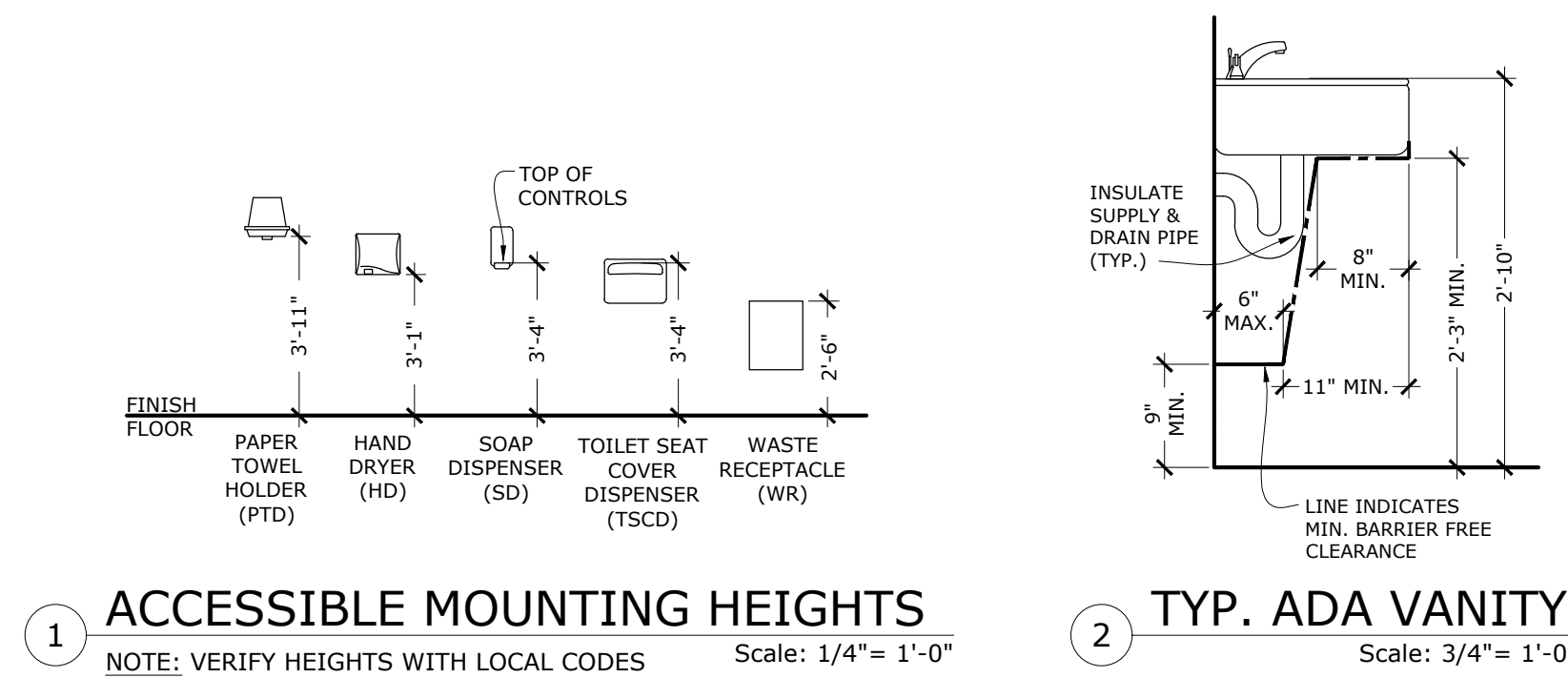
*** ALL WINDOWS AND DOORS W/GLAZING MUST BE IMPACT RATED ***

INTERIOR DOOR SCHEDULE				
REFERENCE PLANS FOR SWING DIRECTION & JAMB DEPTH				
NOTATION	SIZE / CALL NO.	TYPE	MAKE / MODEL	HARDWARE / FINISH
1	3'-0" x 7'-0"	SOLID CORE, LH OUTSWING, WD PANEL DOOR		OWNER TO SELECT
1	3'-0" x 7'-0"	SOLID CORE, RH OUTSWING, WD PANEL DOOR		OWNER TO SELECT
1	3'-0" x 7'-0"	SOLID CORE, RH OUTSWING, WD PANEL DOOR		OWNER TO SELECT
1	3'-0" x 7'-0"	SOLID CORE, LH OUTSWING, WD PANEL DOOR		OWNER TO SELECT

(A) AS PER SECTION 302.5.1 IN SBC-2, OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 1 3/8" IN THICKNESS, SOLID OR HONEYCOMB-CORE STEEL DOORS NOT LESS THAN 1 3/8" THICK, OR 20-MINUTE FIRE RATED DOORS, EQUIPPED WITH A SELF CLOSING DEVICE
 (B) DOORS BETWEEN THE GARAGE AND RESIDENCE SHALL BE WEATHER-STRIPPED ON ALL FOUR EDGES.
 (C) DOORS BETWEEN THE UNCONDITIONED AND RESIDENCE SHALL BE WEATHER-STRIPPED ON ALL FOUR EDGES.
 (D) CONTRACTOR TO COORDINATE INTERIOR DOOR SIZE, LOCATIONS, & QUANTITIES w. OWNERS SELECTION FOR TRIM WORK, AND CABINETRY
 (E) PROVIDE (3) HINGES PER DOOR, DOOR STOP, LATCH SET w. KNOB
 (F) PROVIDE PRIVACY LOCK SETS ON ALL BATHROOM AND BEDROOM DOORS. DOUBLE INTERIOR DOORS TO HAVE ROLLER BALL CATCH LATCH AND DUMMY KNOBS. POCKET DOORS TO HAVE RECESSED PULLS.
 (G) CONTRACTOR TO COORDINATE STYLES AND FINISHES w. OWNER PRIOR TO ORDERING ALL HARDWARE AND DOORS
 (H) COORDINATE ELEVATOR DOOR w. ELEVATOR SPECS. AND LOCAL CODE REQUIREMENTS. REFERENCE ASME A17.1, 5.3.1.9.3 CLEARANCE BETWEEN HOISTWAY DOORS AND CAR DOORS OR GATES
 (I) JAMB SHALL BE HELD 6" FROM NEAREST WALL UNLESS OTHERWISE NOTED

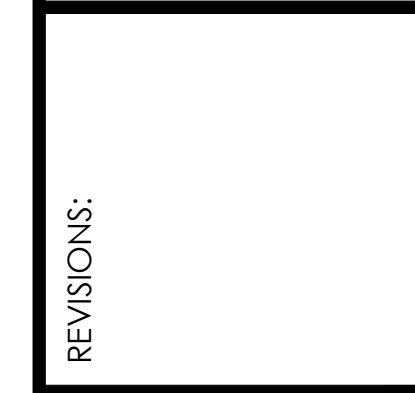
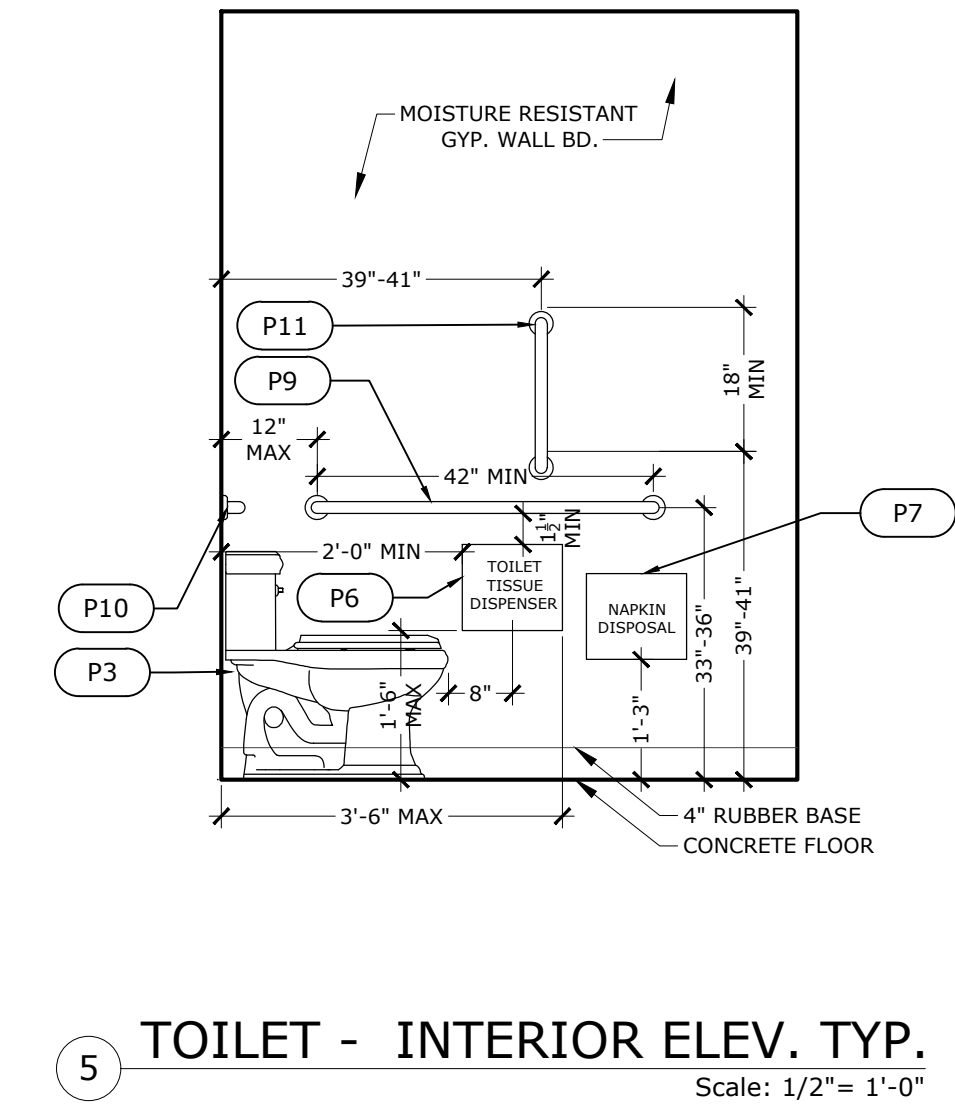
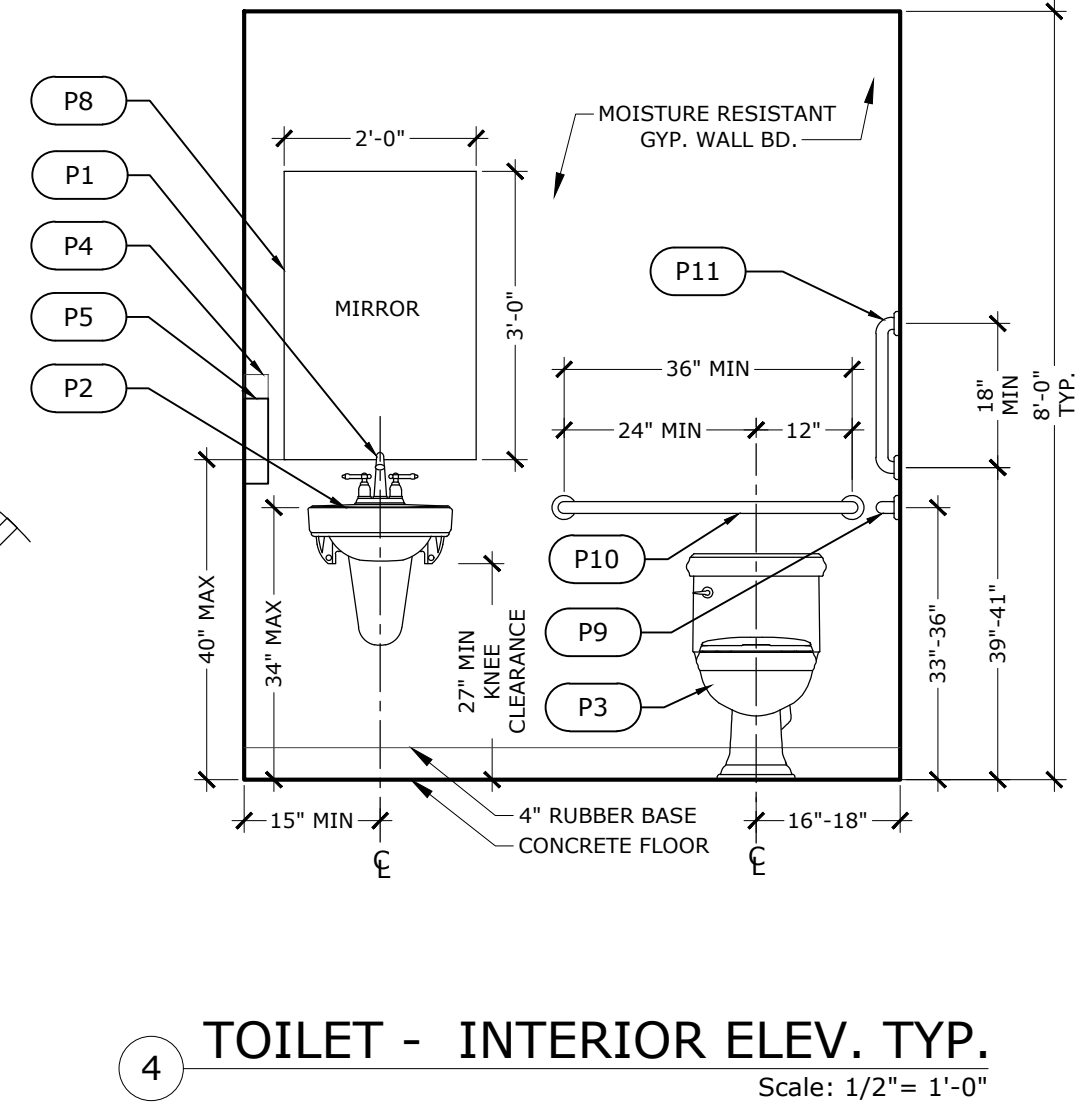
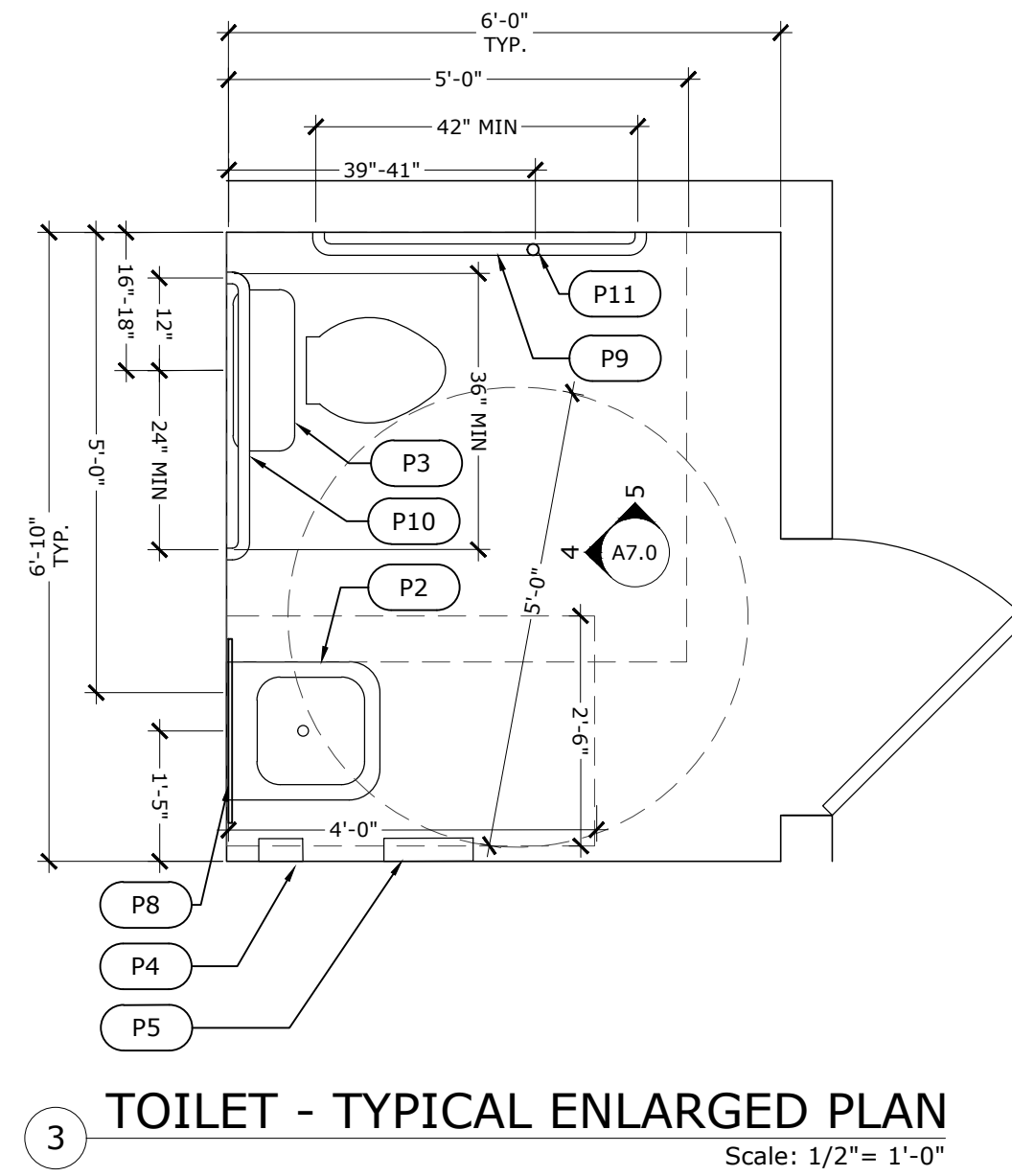
EXTERIOR WINDOW & DOOR INSTALLATION NOTES:
 ALL WINDOWS & DOORS SHALL BE INSTALLED EXPLICITLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS FOR DRAINAGE METHOD WATER MANAGEMENT.

- ALL WINDOWS AND DOORS TO HAVE A CONTINUOUS ACRYLIC FORMABLE SILL FLASHING/PAN. WINDOW SILL FLASHING SHALL BE INSTALLED OVER A SLOPING SILL (USE CEDAR CLAPBOARD SET ON THE ROUGH SILL) TO PROVIDE POSITIVE DRAINAGE TO THE EXTERIOR. PRE-FORMED WINDOW OR DOOR SILL PANS (I.E. MARVIN SILLGUARD OR EQUAL) MAY ALSO BE USED IN PLACE OF MEMBRANE FLASHING
- WRAP BOTH SIDES & TOP OF ALL WINDOW & DOOR ROUGH OPENINGS WITH AN ACRYLIC PEEL & STICK MEMBRANE FLASHING TAPE (SUCH AS MADE BY GRACE, CARLSISLE, VYCOR PLUS OR TYVEK FLEX WRAP). APPLY DIRECTLY TO SHEATHING PRIOR TO INSTALLING WINDOW.
- NAILING FLANGES TO BE EMBEDDED IN CAULK EXCEPT FOR THE BOTTOM FLANGE.
- ALL NAILING FLANGES TO BE COVERED W/ 6" WIDE FLASHING TAPE
- ALL VOIDS (SHIM SPACE) AROUND WINDOW FRAMES WITHIN THE ROUGH OPENINGS TO BE SEALED W/ LOW-EXPANDING, SPRAY FOAM INSULATION. DO NOT FILL VOID.



TOILET ROOM KEY NOTES	
P1	FAUCET
P2	SINK
P3	TOILET
P4	SOAP DISPENSER
P5	HAND DRYER
P6	TOILET PAPER HOLDER
P7	NAPKIN DISPOSAL
P8	MIRROR
P9	42" GRAB BAR
P10	36" GRAB BAR
P11	18" GRAB BAR

CONTRACTOR TO VERIFY ALL SELECTIONS W/ OWNER PRIOR TO ORDERING.



REVISIONS:

DESCRIPTION:	SCHEDULES & TOILET ENLARGED PLANS
SCALE:	N/A
DATE:	NOVEMBER 22, 2024

CODDINGTON COVE COMMONS
 300 CODDINGTON HIGHWAY
 MIDDLETOWN, RHODE ISLAND, 02842

A6.0

PROJECT TITLE:

New Construction:

Coddington Cove Commons
 300 Coddington Hwy
 Middletown, RI 02842

CLIENT/OWNER:

DESIGNED BY: AED

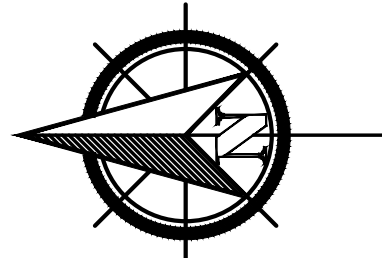
DRAWN BY: AED

CHECKED BY: SWO

DATE: September 4, 2024

REVISION HISTORY:

NO.	DATE	ISSUED FOR
1	10-2-24	REV PER ARCH
2	11-7-24	REVISED GRADES



PROJECT NUMBER:

23099.3

SCALE: AS NOTED

DRAWING TITLE:

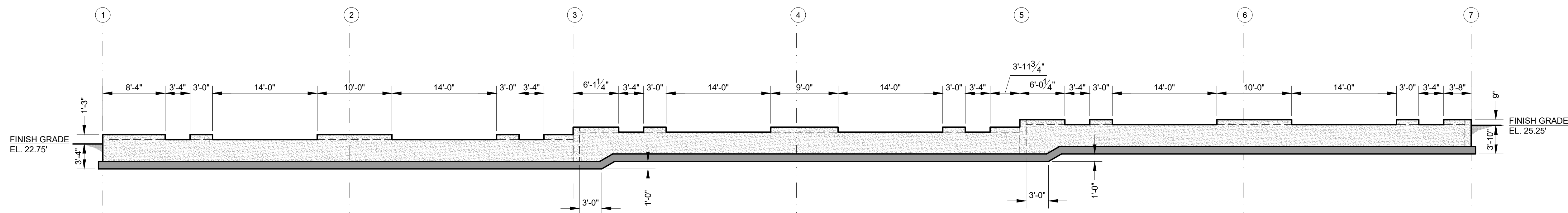
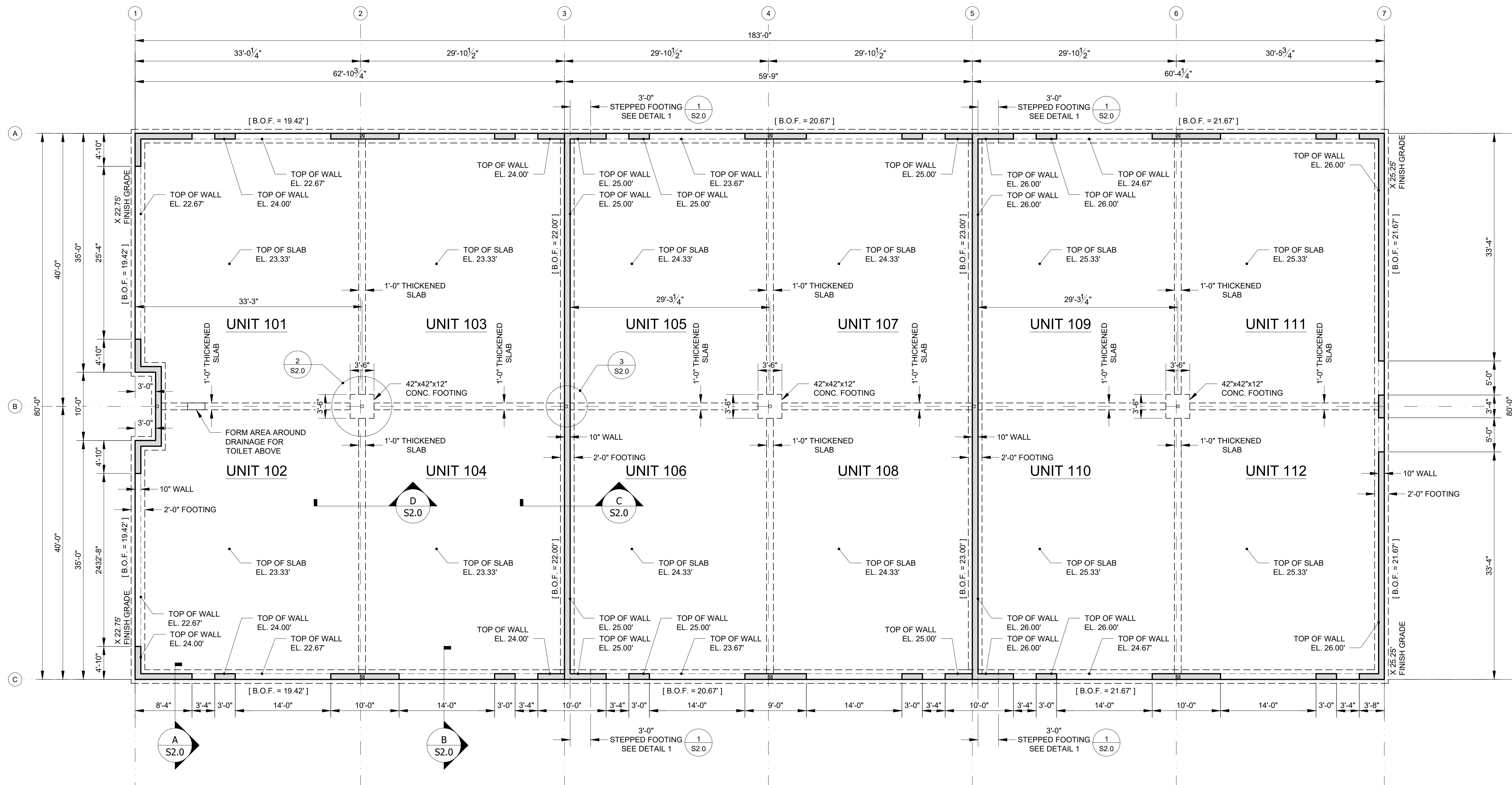
**Building 1
 Foundation Plan**

DRAWING NUMBER:

S1.0

SHEET 2 OF 5

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PROJECT TITLE:

New Construction:

Coddington Cove Commons
 300 Coddington Hwy
 Middletown, RI 02842

CLIENT/OWNER:

DESIGNED BY: AED

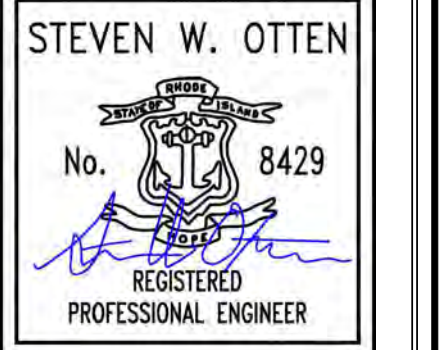
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PROJECT NUMBER:

23099.3

SCALE: AS NOTED

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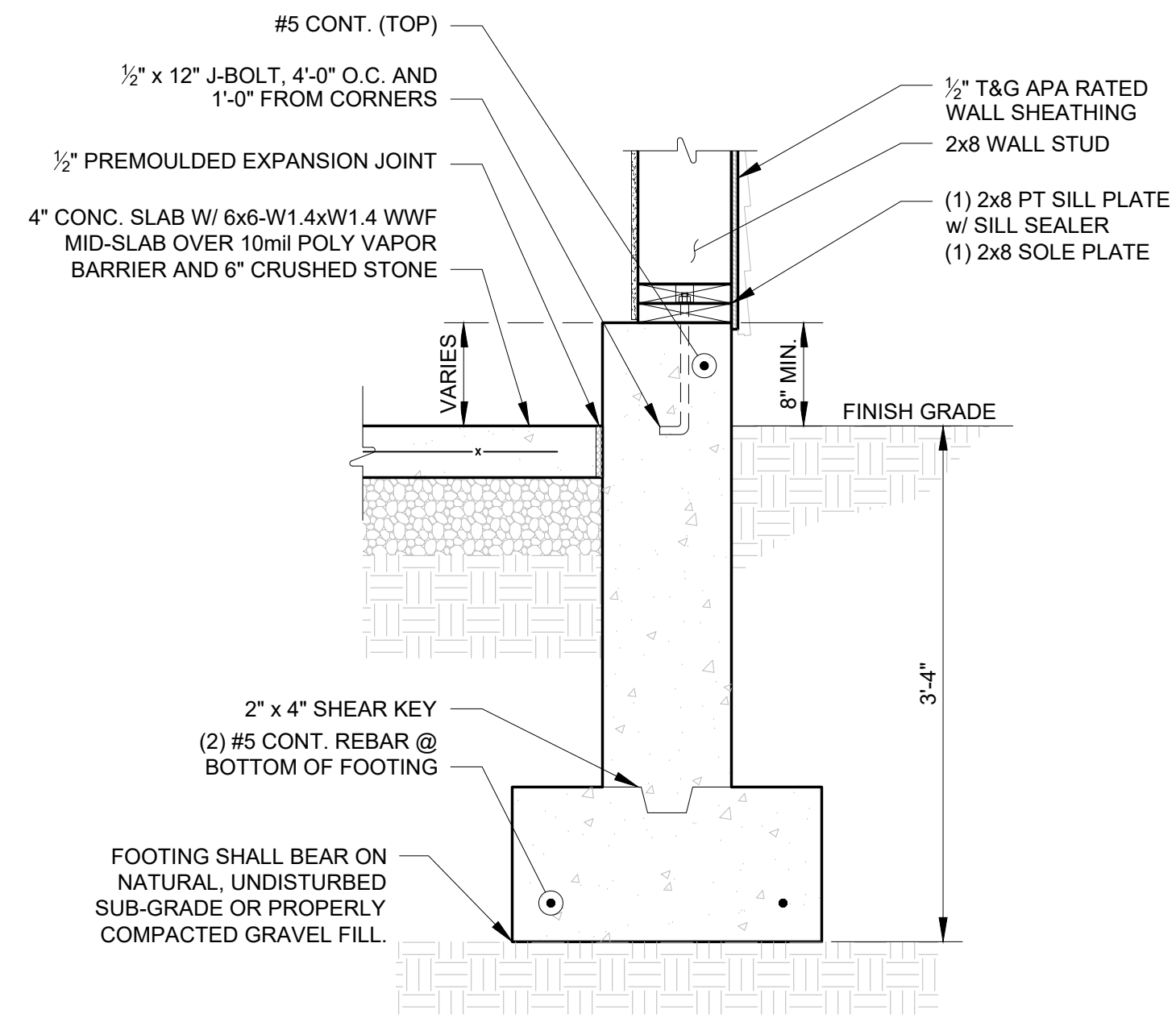
Foundation Sections and Details

DRAWING NUMBER:

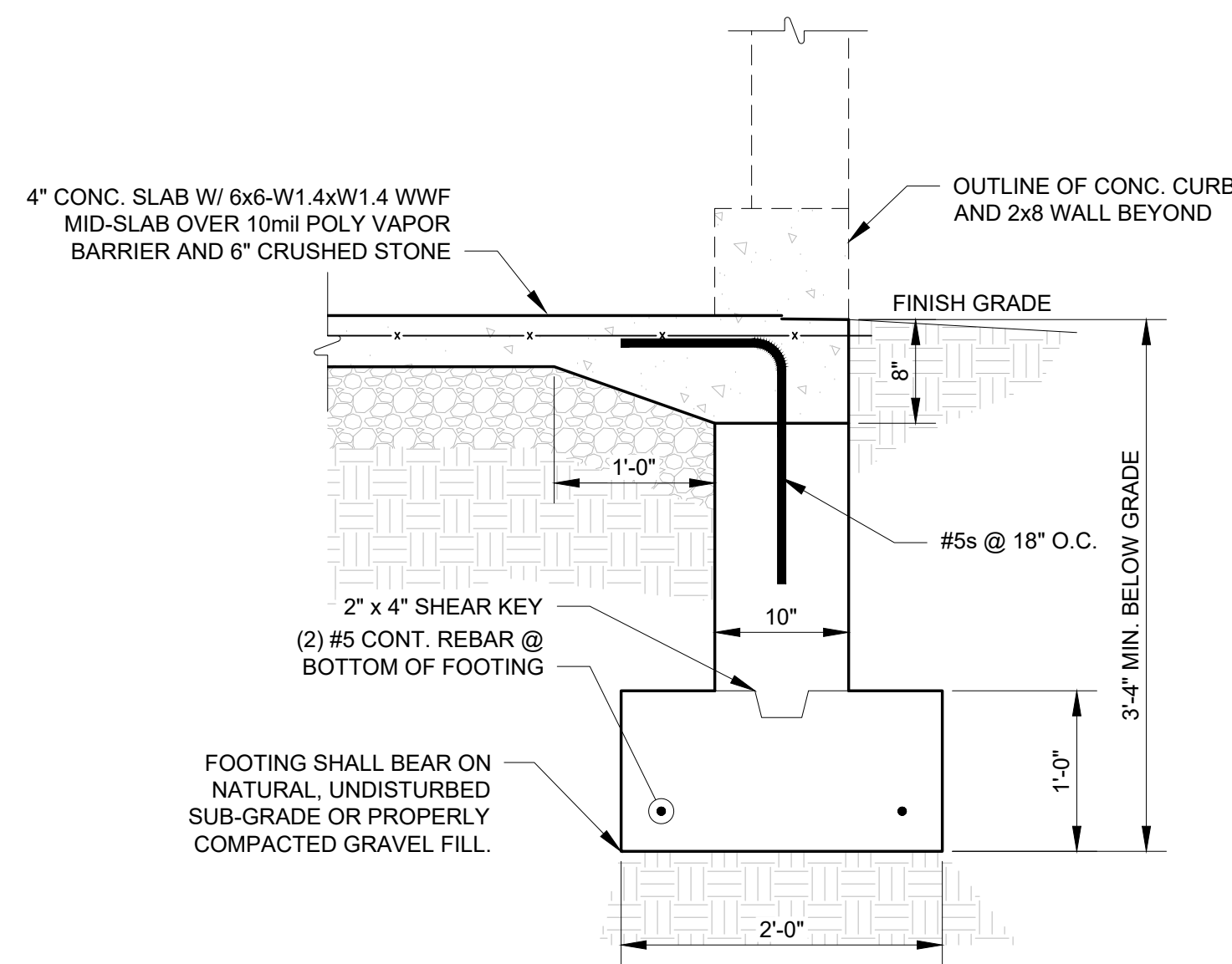
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SHEET 3 OF 5

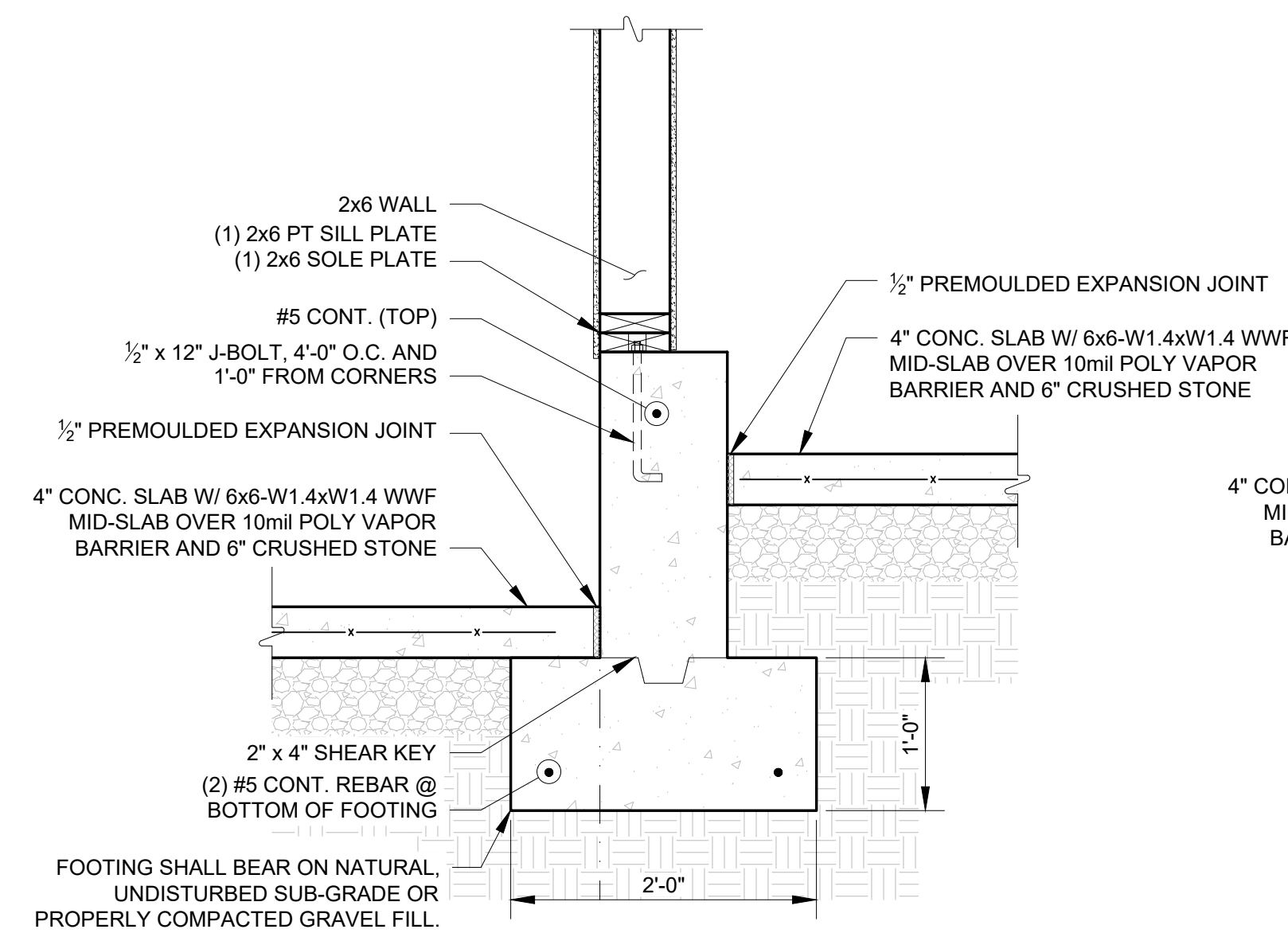
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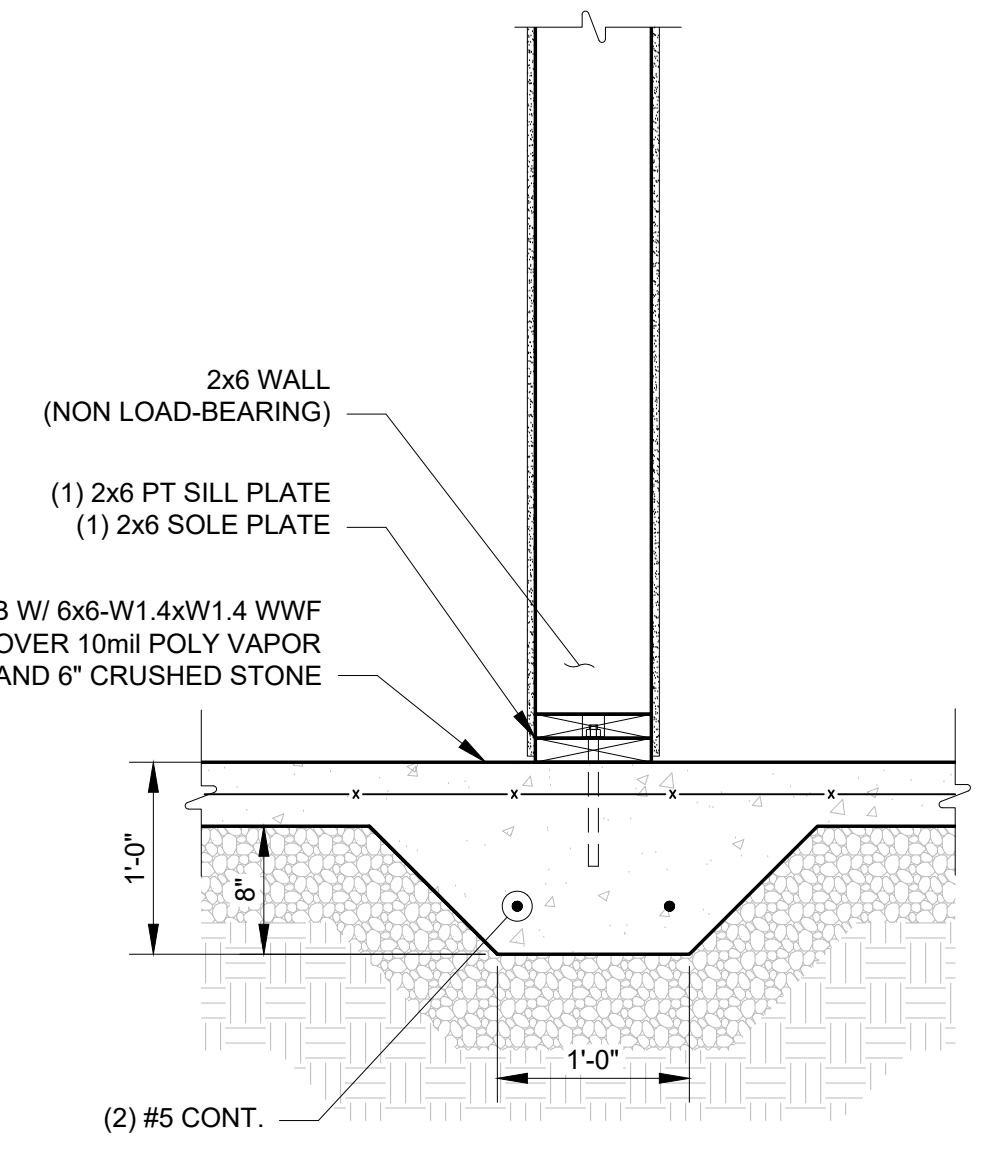
SECTION A
 SCALE: 1" = 1'-0"



SECTION B
 SCALE: 1" = 1'-0"

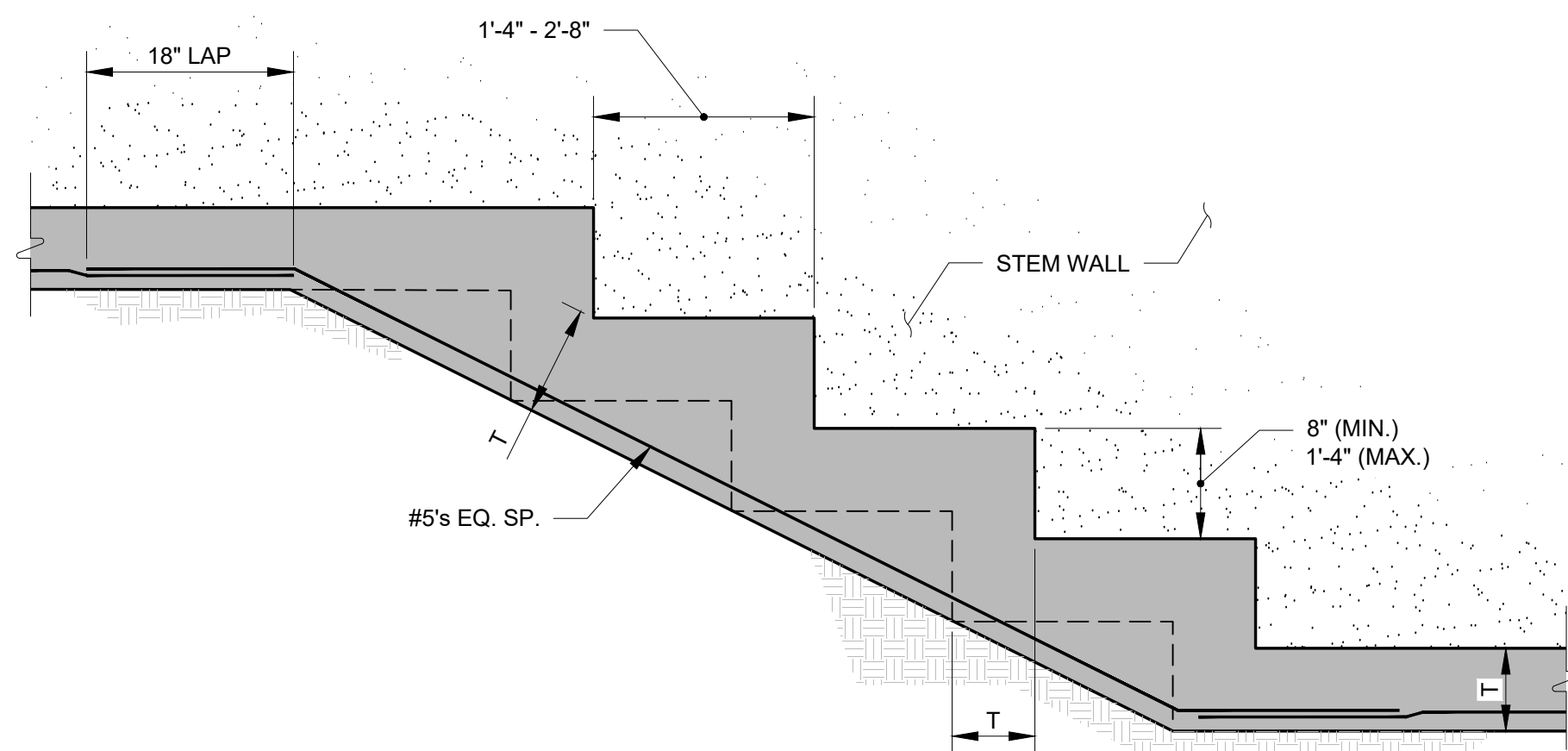


SECTION C
 SCALE: 1" = 1'-0"

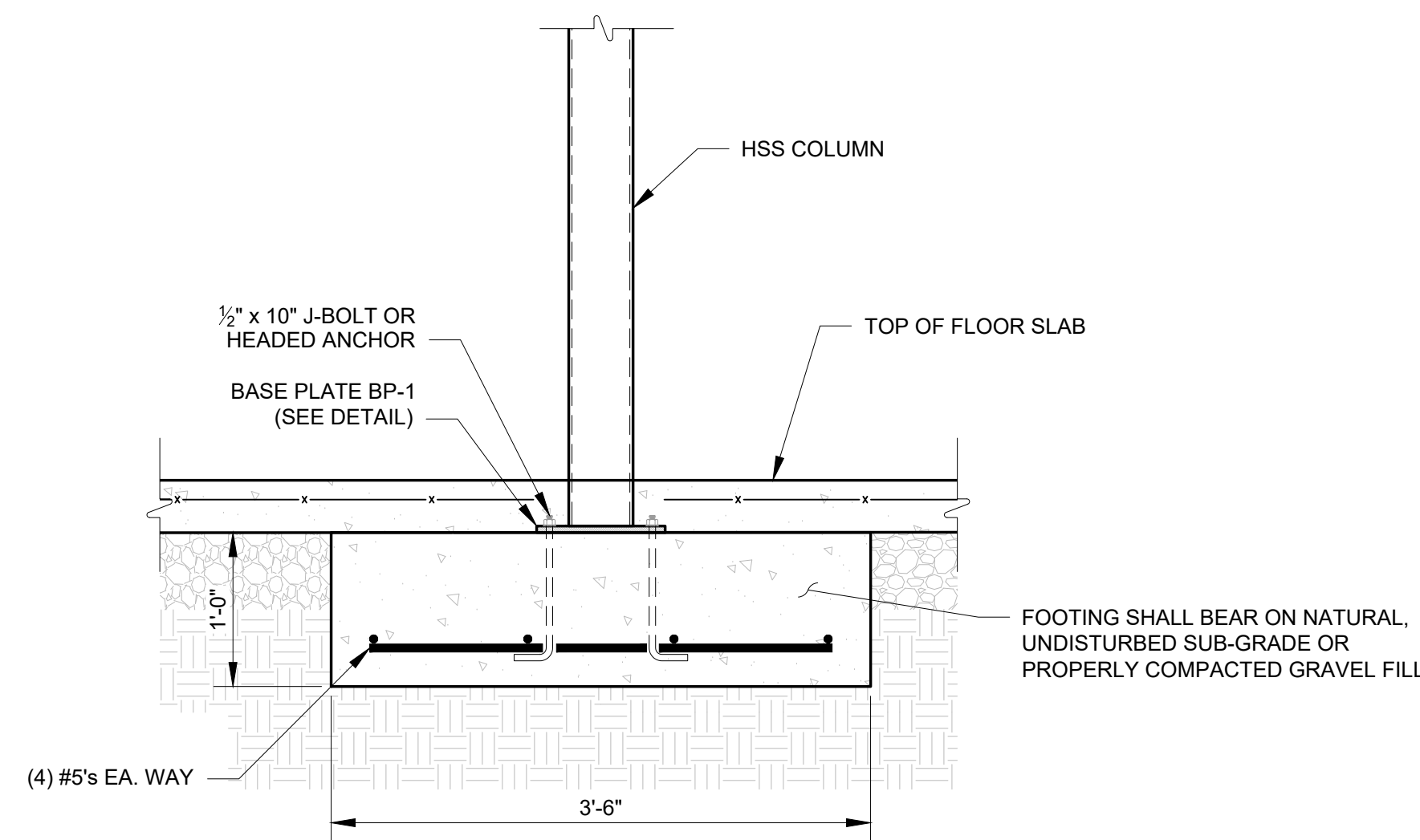


SECTION D
 SCALE: 1" = 1'-0"

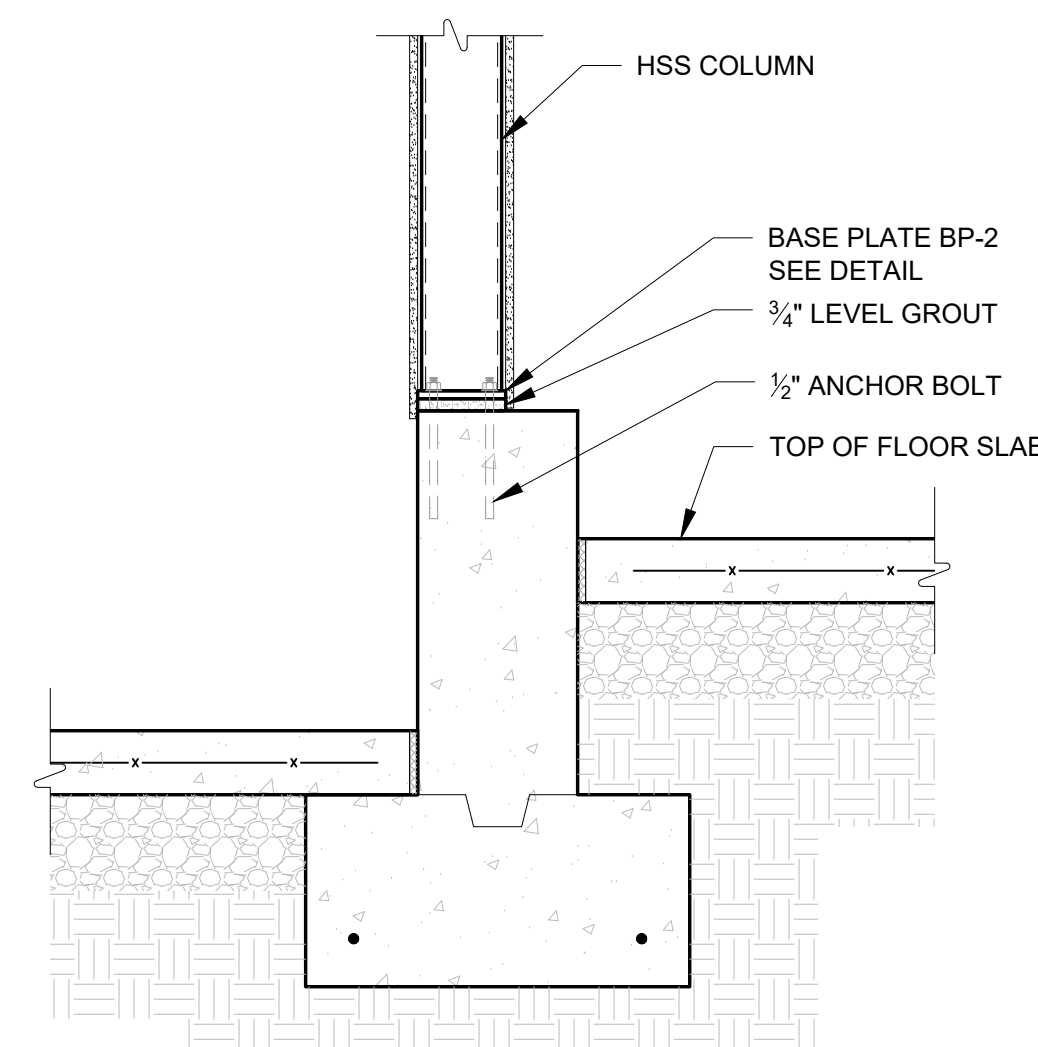
NOTE:
 BUILDINGS 1 & 2 WILL HAVE AN 8" INTERIOR CURB DUE TO EXTERIOR GRADING
 BUILDINGS 3 & 4 WILL HAVE A 4" INTERIOR CURB DUE TO EXTERIOR GRADING



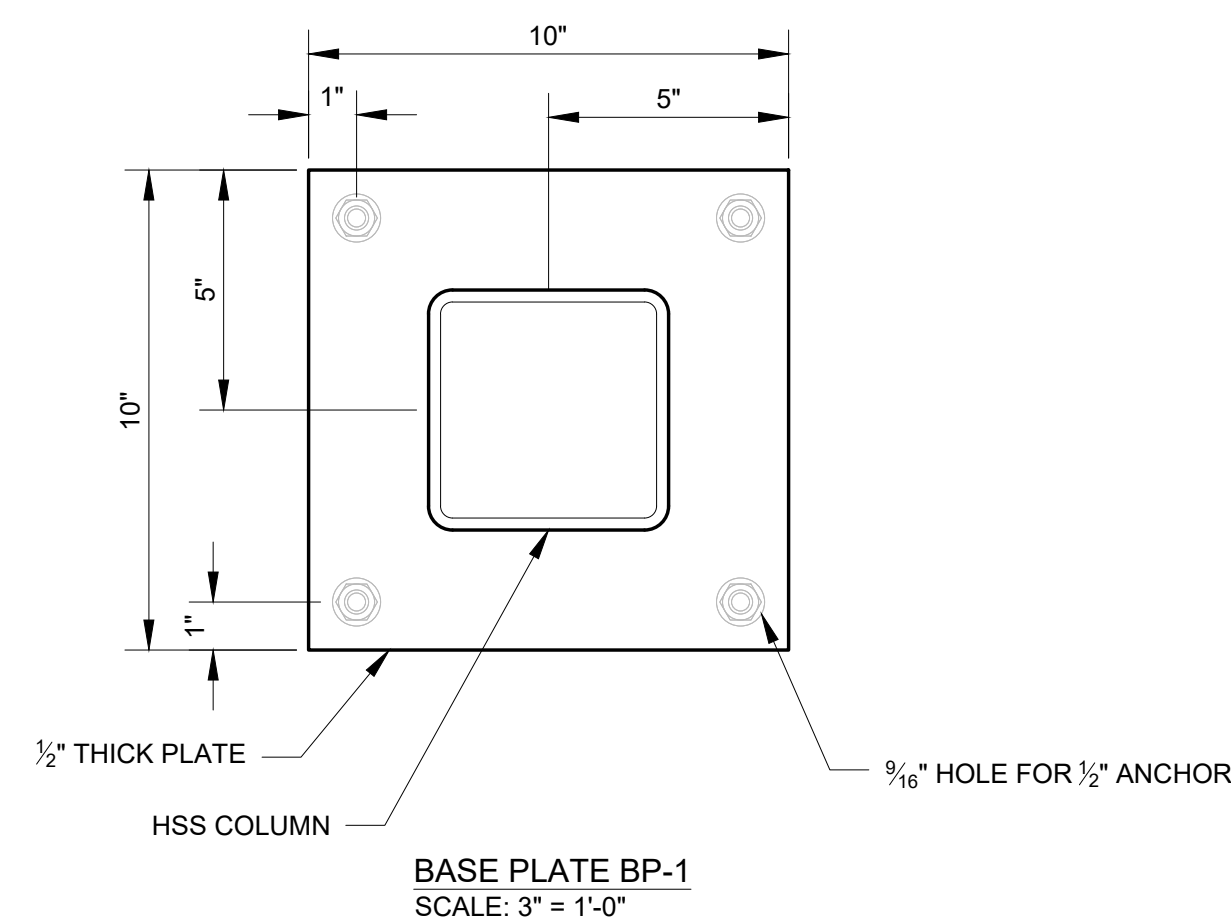
STEPPED FOOTING DETAIL (TYP.)
 SCALE: 1/2" = 1'-0"



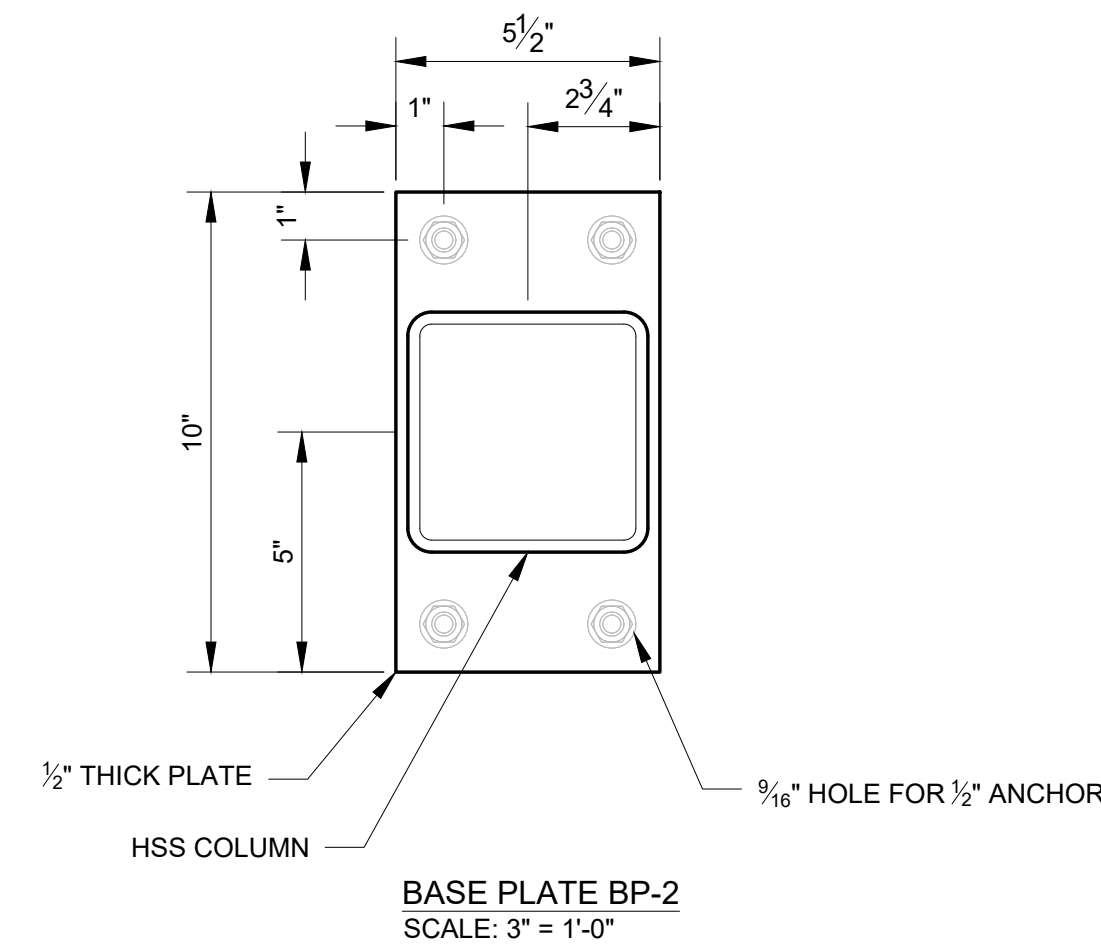
COLUMN FOOTING DETAIL (TYP.)
 SCALE: 1" = 1'-0"



COLUMN DETAIL (TYP.)
 SCALE: 1" = 1'-0"



BASE PLATE BP-1
 SCALE: 3" = 1'-0"



BASE PLATE BP-2
 SCALE: 3" = 1'-0"

PROJECT TITLE:

New Construction:

Coddington Cove Commons
 300 Coddington Hwy
 Middletown, RI 02842

CLIENT/OWNER:

DESIGNED BY: AED

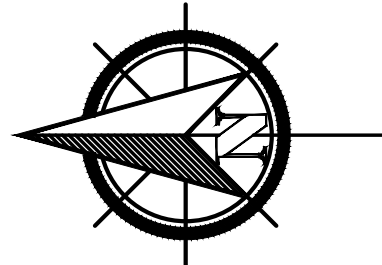
DRAWN BY: AED

CHECKED BY: SWO

DATE: September 4, 2024

REVISION HISTORY:

NO.	DATE	ISSUED FOR
1	10-2-24	REV PER ARCH
2	11-7-24	REVISED GRADES



PROJECT NUMBER:

23099.3

SCALE: AS NOTED

DRAWING TITLE:

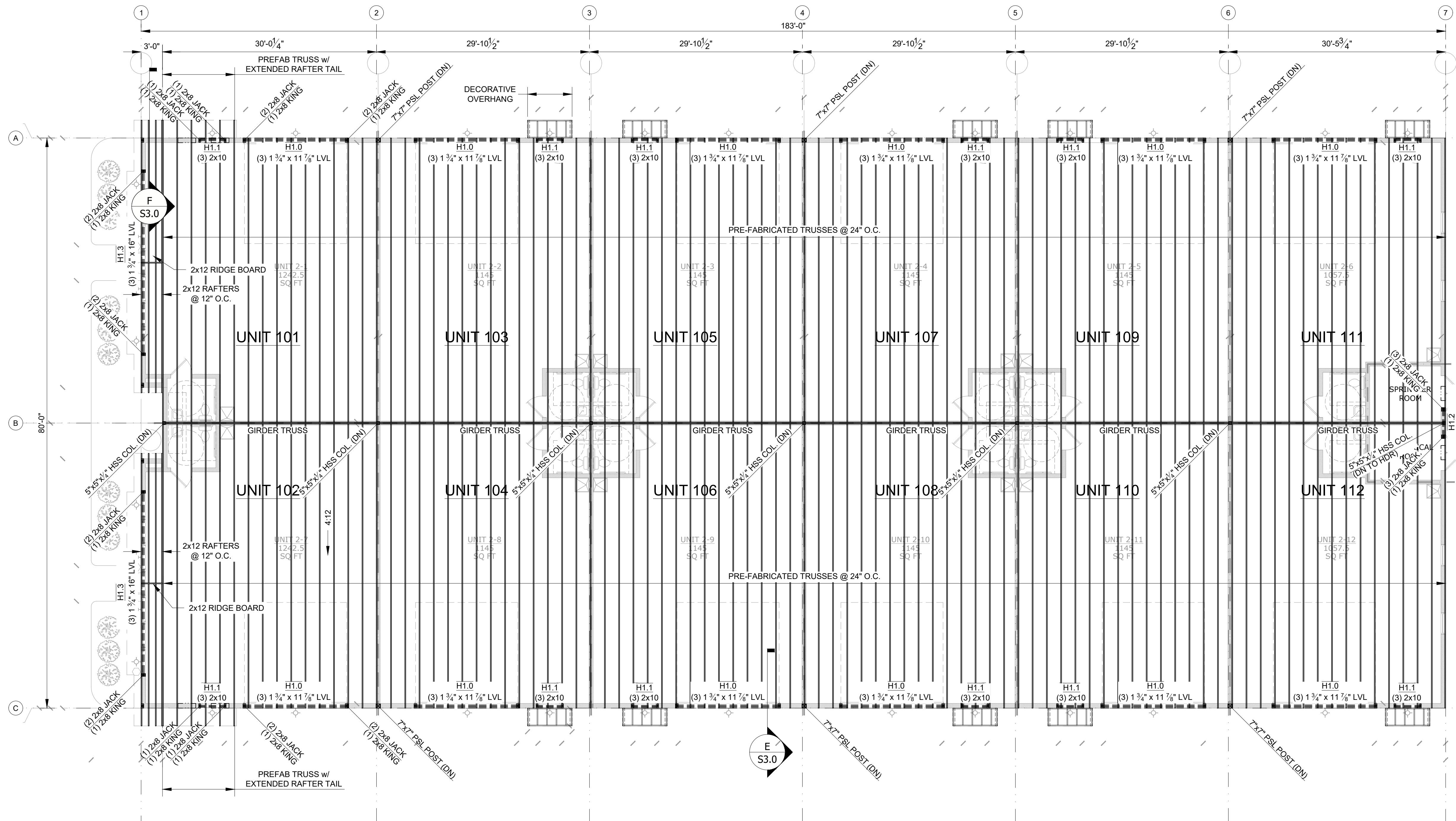
Building 1 Roof Framing Plan

DRAWING NUMBER:

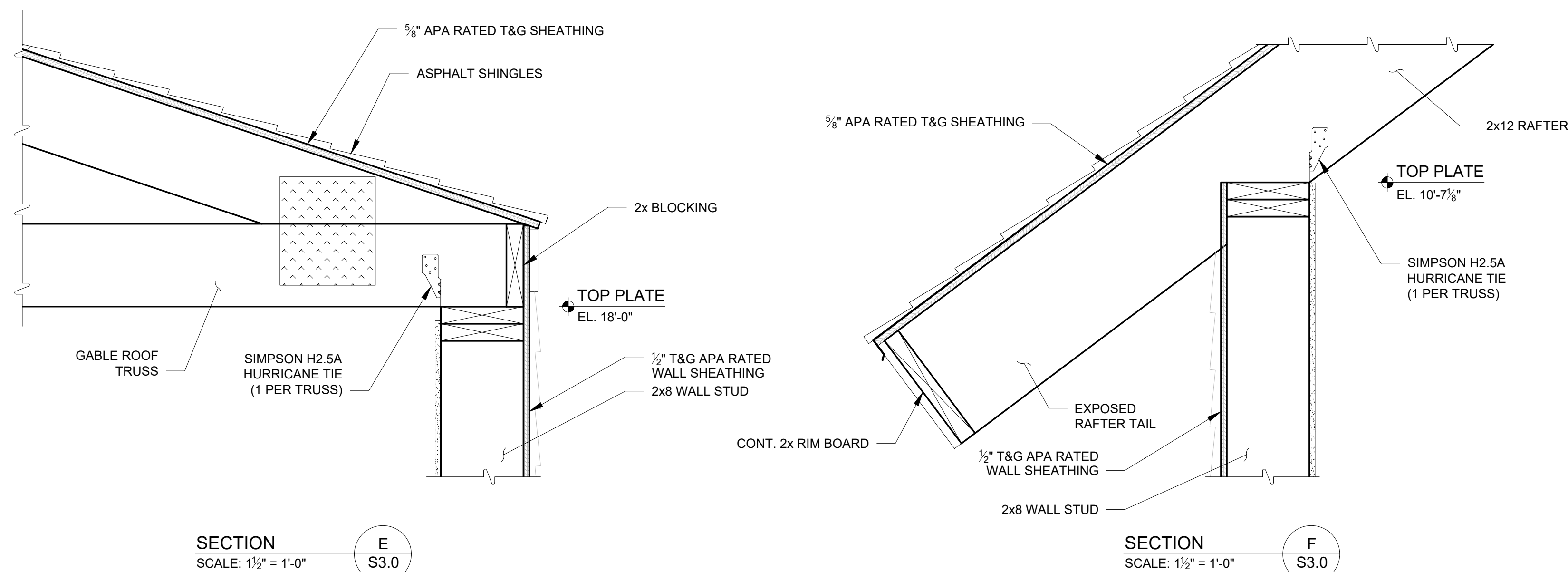
S3.0

SHEET 4 OF 5

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



SECTION E

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

S3.0

SECTION F

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

S3.0

PROJECT TITLE:

New Construction:

Coddington Cove Commons
 300 Coddington Hwy
 Middletown, RI 02842

CLIENT/OWNER:

DESIGNED BY: AED

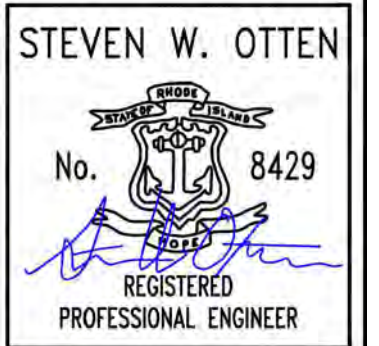
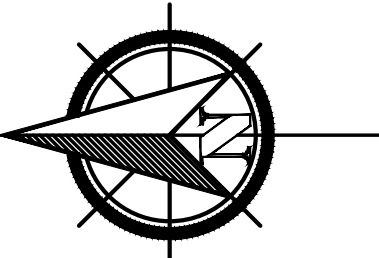
DRAWN BY: AED

CHECKED BY: SWO

DATE: September 4, 2024

REVISION HISTORY:

NO.	DATE	ISSUED FOR
1	10-2-24	REV PER ARCH
2	11-7-24	REVISED GRADES



PROJECT NUMBER:

23099.3

SCALE: AS NOTED

DRAWING TITLE:

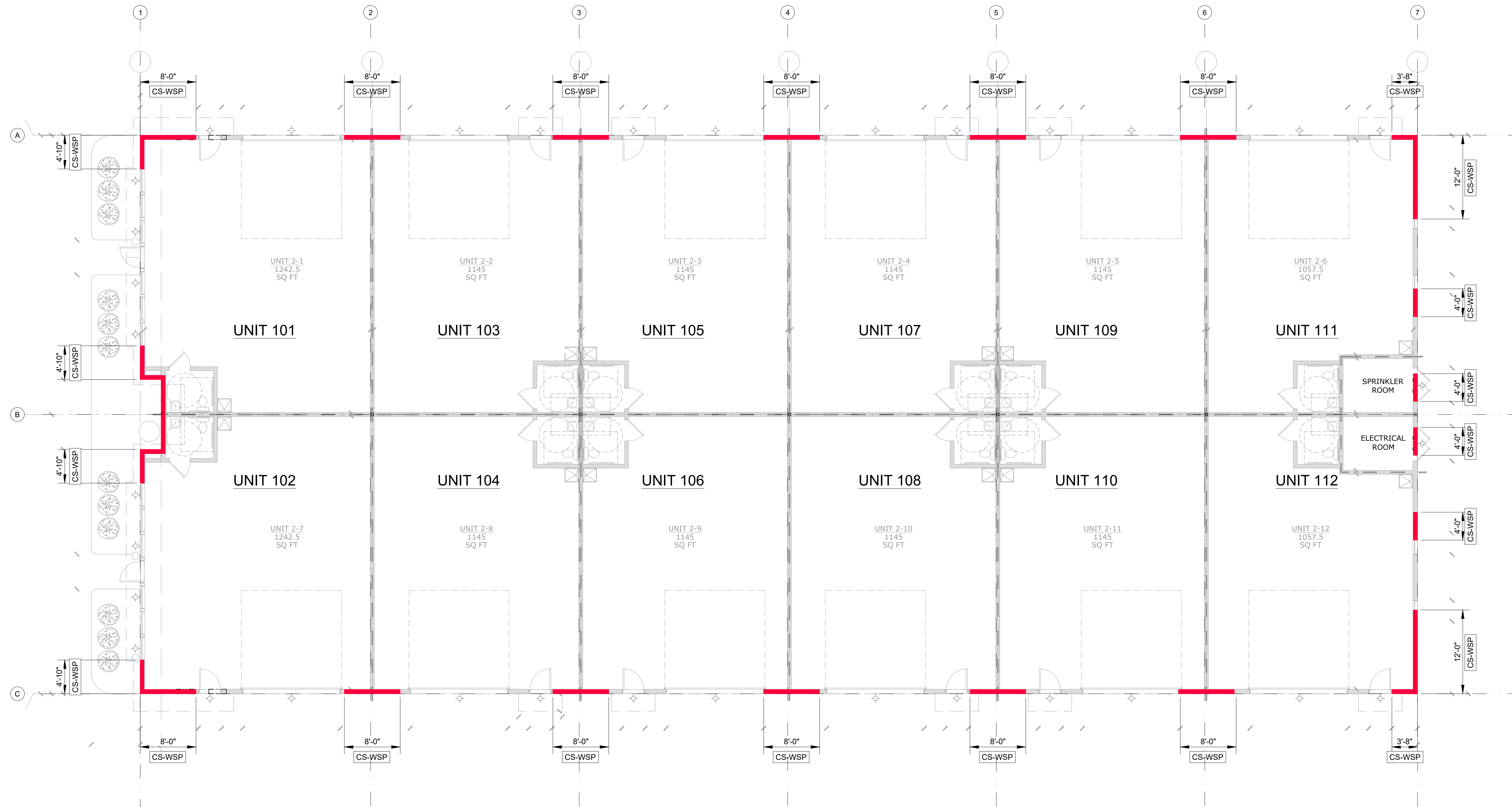
Building 1 Braced Wall Plan

DRAWING NUMBER:

S4.0

SHEET 5 OF 5

OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.



BUILDING 1 & 2: BRACED WALL PLAN
 SCALE: 1/8" = 1'-0"

Bracing Wall Methods								
References Table R602.3(1), R602.3(3), R602.10.4, R602.10.6.1								
Method	Mark	Exterior Sheathing Assembly			Interior Assembly			Hold Down
		Type	Fastener	Fastening Pattern (edge:field) (in)	Type	Fastener	Fastener Edge Spacing (edge:field) (in)	
Continuous Sheathing	CS-WSP (Wood Structural Panel)	3/8" (Min.) APA Rated Sheathing	6d Common	6 : 12	1/2" Gypsum	No. 6 Type S or W drywall screw (1 1/4" long)	7 : 7	See Plans

NOTES:

- CONTINUOUS SHEATHING METHODS REQUIRE STRUCTURAL PANEL SHEATHING TO BE USED ON ALL EXTERIOR SHEATHABLE SURFACES INCLUDING AREAS BEYOND DESIGNATED BRACED PANELS SHOWN (i.e. AREAS BETWEEN PANELS, AREAS ABOVE AND BELOW OPENINGS, AND GABLE ENDS).
- ALL VERTICAL PANEL JOINTS SHALL OCCUR OVER, AND BE FASTENED TO COMMON STUDS (R602.10.10).
- ALL HORIZONTAL PANEL JOINTS (WITHIN BRACED PANEL) SHALL OCCUR OVER, AND BE FASTENED TO COMMON BLOCKING OF MINIMUM 1 1/2" NOMINAL THICKNESS.
- CRIPPLE WALL WITH A STUD HEIGHT LESS THAN 14-INCHES SHALL BE CONTINUOUSLY SHEATHED ON ONE SIDE WITH WOOD STRUCTURAL PANELS FASTENED TO BOTH THE TOP AND BOTTOM PLATES IN ACCORDANCE WITH TABLE R602.3(1), OR THE CRIPPLE WALLS SHALL BE CONSTRUCTED OF SOLID BLOCKING.

GAS FIRED UNIT HEATER SCHEDULE																				
GENERAL		PERFORMANCE					ELECTRICAL				PHYSICAL			REMARKS						
TAG	LOCATION	FURNACE			FAN		HP	MCA	VOLTAGE	PHASE	MOUNTING HEIGHT (FT)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL				
		INPUT MBH	OUTPUT MBH	EFFICIENCY (%)	LAT (°F)	STAGES											CFM	ESP (IN WG)	RPM	SPEED
GUH-1	TYPICAL UNIT	200	166.0	83.0	107.0	1	3,200	-	1,050	HIGH	1/3	9.5	120	1	10'-0"	STERLING XF-200	①	①	1 1 2 3	① ②
① TUBULAR GAS FIRED UNIT HEATER, SEPARATED COMBUSTION.		① ETL LISTED					① CONCENTRIC VENT KIT ② STAINLESS STEEL HEAT EXCHANGER ③ LOW VOLTAGE, PROGRAMMABLE THERMOSTAT				① INSTALL PER MANUFACTURERS RECOMMENDATIONS ② INSTALL AT MINIMUM 10'-0" ABOVE FINISHED FLOOR									

FAN SCHEDULE															
GENERAL		PERFORMANCE					ELECTRICAL				PHYSICAL			REMARKS	
TAG	LOCATION	SERVICE	CFM	ESP (IN WG)	FAN RPM	DB	WATTS	VOLTAGE	PHASE	WEIGHT (LBS)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
EF-1	SEE PLANS	TOILET ROOM EXHAUST	75	.50	3,024	-	150	120	1	10.0	FANTECH FG 6XL	①	① ②	1 2 3 4	① ②
EF-2	SEE PLANS	EMERGENCY EXHAUST	1,000	.50	1,662	81.0	450	120	1	43.0	FANTECH FKD 12XL	①	① ②	1 2 3 4	① ③
① INLINE DUCT FAN		① AIR PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 211 ② SOUND PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 311					① UNIT MOUNTED SPEED CONTROLLER ② BACKDRAFT DAMPER ③ DISCONNECT SWITCH ④ MOUNTING CLAMPS				① INSTALL PER MANUFACTURERS INSTRUCTIONS ② FAN SHALL RUN CONTINUOUSLY ③ FAN SHALL ENERGIZE/DE-ENERGIZE UPON ACTIVATION/DE-ACTIVATION OF WALL MOUNTED SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.				

ELECTRIC UNIT HEATER SCHEDULE														
GENERAL		PERFORMANCE				ELECTRICAL			PHYSICAL		REMARKS			
TAG	LOCATION	KW	STAGES	MBH	CFM	FAN SPEED	AMPS	VOLTAGE	PHASE	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
EUH-1	BUILDING #1 ELECTRIC ROOM	1.5	1	5.1	70	HIGH	12.5	120	1	KING WHFC1215W	①	①	1 2 3	① ②
EUH-2	BUILDING #1 SPRINKLER ROOM	1.5	1	5.1	70	HIGH	12.5	120	1	KING WHFC1215W	①	①	1 2 3	① ②
① FAN FORCED, ELECTRIC CEILING HEATER		① cULus (E41422)				① WALL MOUNTED THERMOSTAT ② DISCONNECT SWITCH ③ WHITE GRILLE			① INSTALL PER MANUFACTURERS RECOMMENDATIONS ② A WALL MOUNTED THERMOSTAT WILL ENERGIZE THE FAN AND THE HEATING COIL TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 70° (ADJ.).					

DIFFUSER AND GRILLE SCHEDULE							
GENERAL		PHYSICAL				REMARKS	
TAG	SIZE (IN)	BLOW PATTERN	BRANCH DUCT (IN)	MANUFACTURER MODEL	TYPE	FEATURES	INSTALL
E-1	SEE PLANS	-	SEE PLANS	TITUS 35FL	①	1	①
E-2	SEE PLANS	-	SEE PLANS	AIR CONCEPTS RSD	②	2 3	-
① EXHAUST GRILLE, 45° FIXED BLADES ON 3/4" CENTERS, BLADES PARALLEL TO LONG DIMENSION, ALUMINUM, WHITE ② ROUND, SINGLE DEFLECTION, DUCT MOUNTED. COLOR AND FINISH TO BE CHOSEN BY ARCHITECT.							
① REFER TO ARCHITECTURAL RCP PLANS FOR MOUNTING TYPE ② FOAM GASKET ③ RADIAL BLADE DAMPER							
① PROVIDE A DUCT MOUNTED VOLUME DAMPER OR CONSTANT AIRFLOW REGULATOR WHETHER OR NOT A DUCT MOUNTED VOLUME DAMPER IS INDICATED ON PLAN. EXCEPTIONS: • TRANSFER AIR APPLICATIONS (GRILLE IS NOT CONNECTED BY A DUCTWORK SYSTEM TO A FAN) • EXHAUST AND RETURN GRILLES WHERE ONLY ONE GRILLE SERVES THE FAN/AIR HANDLING SYSTEM							
TAG LEGEND ### SIZE TAG ### BALANCE TO ### CFM							

ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AP	ACCESS PANEL
AHJ	AUTHORITY HAVING JURISDICTION
ATC	AUTOMATIC TEMPERATURE CONTROL
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU/HOUR
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
COP	COEFFICIENT OF PERFORMANCE
DN	DOWN
EA	EXHAUST AIR
E.C.	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
ESP	EXTERNAL STATIC PRESSURE
°F	DEGREES FAHRENHEIT
FT	FEET
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
G.C.	GENERAL CONTRACTOR
HP	HORSEPOWER
MAX	MAXIMUM
MBH	THOUSANDS OF BTU / HOUR
M.C.	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
RPM	REVOLUTIONS PER MINUTE
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
Typ	TYPICAL
UOI	UNLESS OTHERWISE INDICATED
VD	VOLUME DAMPER

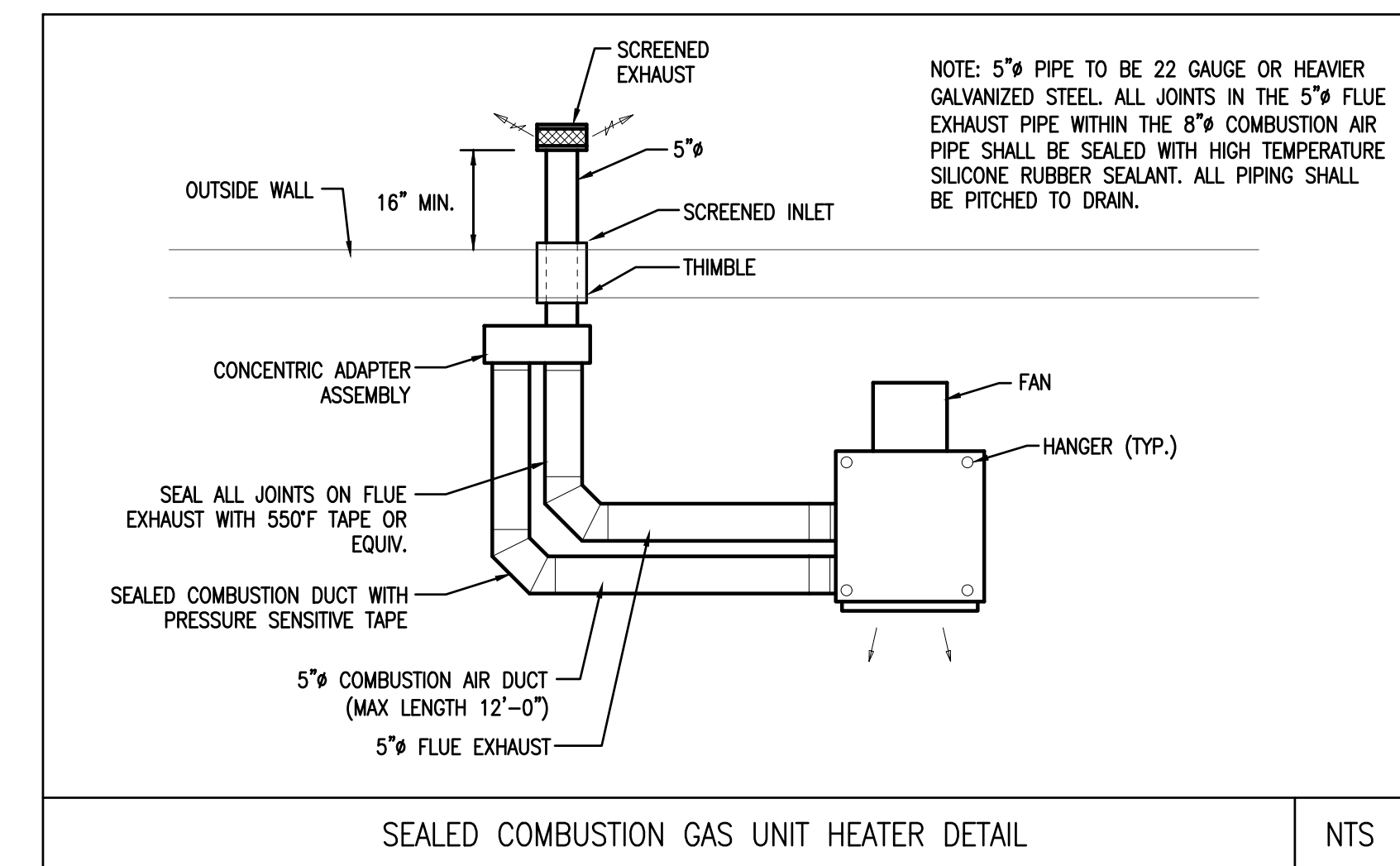
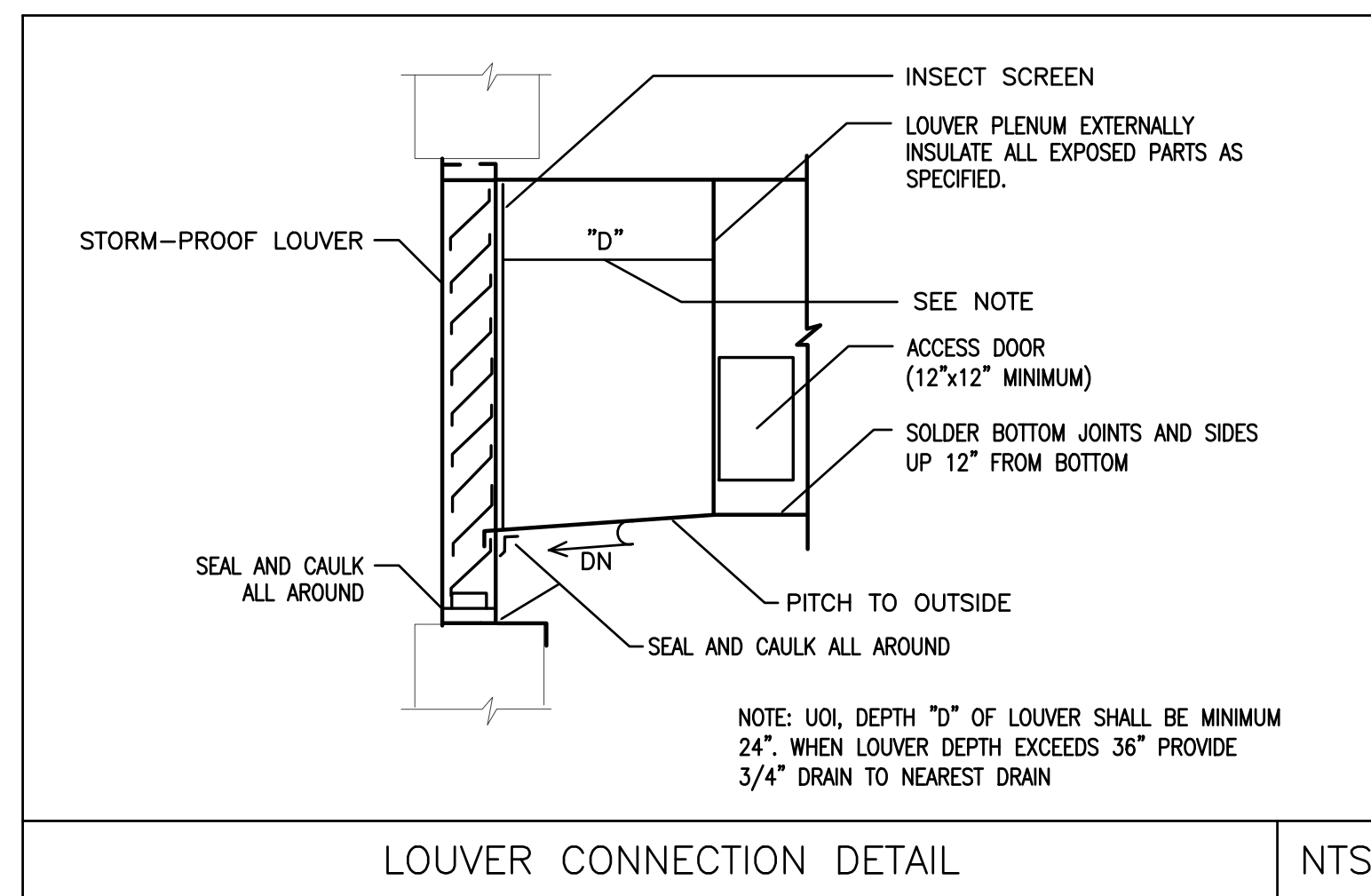
TAG LEGEND	
EQUIPMENT (REQUIRING POWER)	EQUIPMENT DESIGNATION NUMBER
REGISTERS, GRILLES & DIFFUSERS	SIZE DESIGNATION BALANCE TO CFM INDICATED

GENERAL MECHANICAL NOTES

- MECHANICAL EQUIPMENT AND SUCH OTHER APPARATUS AS MAY REQUIRE MAINTENANCE AND OPERATION FROM TIME TO TIME SHALL BE MADE EASILY ACCESSIBLE. ALTHOUGH THE EQUIPMENT MAY BE SHOWN ON THE DRAWINGS IN CERTAIN LOCATIONS, THE CONSTRUCTION MAY DISCLOSE THAT SUCH LOCATIONS DO NOT MAKE ITS POSITION READILY ACCESSIBLE. IN SUCH CASES, THE OWNER OR HIS REPRESENTATIVE SHALL BE NOTIFIED BEFORE ADVANCING THE CONSTRUCTION TO A STAGE WHERE A CHANGE WILL REFLECT ADDITIONAL EXPENSE.
- THE DRAWINGS SHOW THE LAYOUT OF THE MECHANICAL SYSTEMS AND INDICATE THE APPROXIMATE LOCATIONS OF DUCTWORK, BRANCHES AND ELBOWS, AND EQUIPMENT. THE RUNS AND QUANTITY OF DUCTWORK, OFFSETS AND ELBOWS AS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. THE EXACT ROUTING OF QUANTITY DUCTWORK, OFFSETS AND ELBOWS SHALL BE DETERMINED BY THE STRUCTURAL CONDITIONS, AND POSSIBLE OBSTRUCTIONS. THIS SHALL NOT BE CONSTRUED TO MEAN THAT THE DESIGN OF THE SYSTEMS MAY BE CHANGED, BUT REFERS ONLY TO EXACT RUNS BETWEEN GIVEN POINTS.
- IT SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR TO STUDY ALL DRAWINGS AND DETAILS SO THAT THE INSTALLATION OF ALL NEW WORK CAN BE FULLY COORDINATED. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE OF EQUIPMENT.
- HVAC WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. EQUIPMENT, DUCTS OR PIPES INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED.
- PRODUCTS REQUIRED BY CONSTRUCTION BUT NOT SPECIFICALLY DESCRIBED HEREIN SHALL BE AS SELECTED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE A/E.
- PROVIDE ALL MATERIALS, LABOR, AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEMS AND AS REQUIRED BY THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INSTALL ALL MATERIALS, ACCESSORIES AND EQUIPMENT ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR A COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS MANUFACTURERS INSTRUCTIONS.
- ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR HVAC EQUIPMENT INSTALLATION SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
- ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.
- EXACT ELEVATION FOR REGISTERS AND GRILLES SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.
- INSTALL ROOM THERMOSTATS OR SENSORS 54" (MAXIMUM) ABOVE FINISHED FLOOR, 48" ABOVE FINISHED FLOOR FOR ANY ADA COMPLIANT RESIDENCE, OR AS OTHERWISE DIRECTED BY THE ARCHITECT.

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	DUCTWORK (DOUBLE LINE)
	DUCTWORK WITH ACOUSTICAL LINING (DOUBLE LINE)
	DUCTWORK (SINGLE LINE)
	DUCTWORK WITH ACOUSTICAL LINING (SINGLE LINE)
	FLEXIBLE DUCTWORK
	DUCTWORK, PIPING AND EQUIPMENT TO BE DEMOLISHED
	RECTANGULAR/ROUND SUPPLY AIR DUCTWORK UP
	RECTANGULAR/ROUND RETURN AIR DUCTWORK UP
	RECTANGULAR/ROUND EXHAUST AIR DUCTWORK UP
	RECTANGULAR/ROUND SUPPLY AIR DUCTWORK DOWN
	RECTANGULAR/ROUND RETURN AIR DUCTWORK DOWN
	RECTANGULAR/ROUND EXHAUST AIR DUCTWORK DOWN
	VOLUME DAMPER
	CONTROL DAMPER
	GRAVITY BACKDRAFT DAMPER
	CONNECT TO EXISTING
	AIR ENTERING OPENING
	AIR LEAVING OPENING
	CO2 SENSOR
	THERMOSTAT OR TEMPERATURE SENSOR
	CONTROL CONNECTION

ELECTRIC BASEBOARD											
GENERAL		PERF.	ELECTRICAL		PHYSICAL		REMARKS				
TAG	LOCATION	BTUH	WATTS	AMPS	VOLTS	LENGTH (IN)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
EBB-1	BUILDING #1 UNIT 101 BATHROOM	2,559	750	6.3	120	36.0	KING 3K1207BW	①	①	1	① ②
EBB-2	BUILDING #1 UNIT 102 BATHROOM	2,559	750	6.3	120	36.0	KING 3K1207BW	①	①	1	① ②
① ELECTRIC BASEBOARD HEATER		① UL LISTED		① BUILT-IN SINGLE POLE THERMOSTAT		① INSTALL PER MANUFACTURERS RECOMMENDATIONS ② A BUILT-IN THERMOSTAT WILL ENERGIZE THE HEATING COIL TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 70° (ADJ.).					



PERMIT SET
DATE: 11/15/2024

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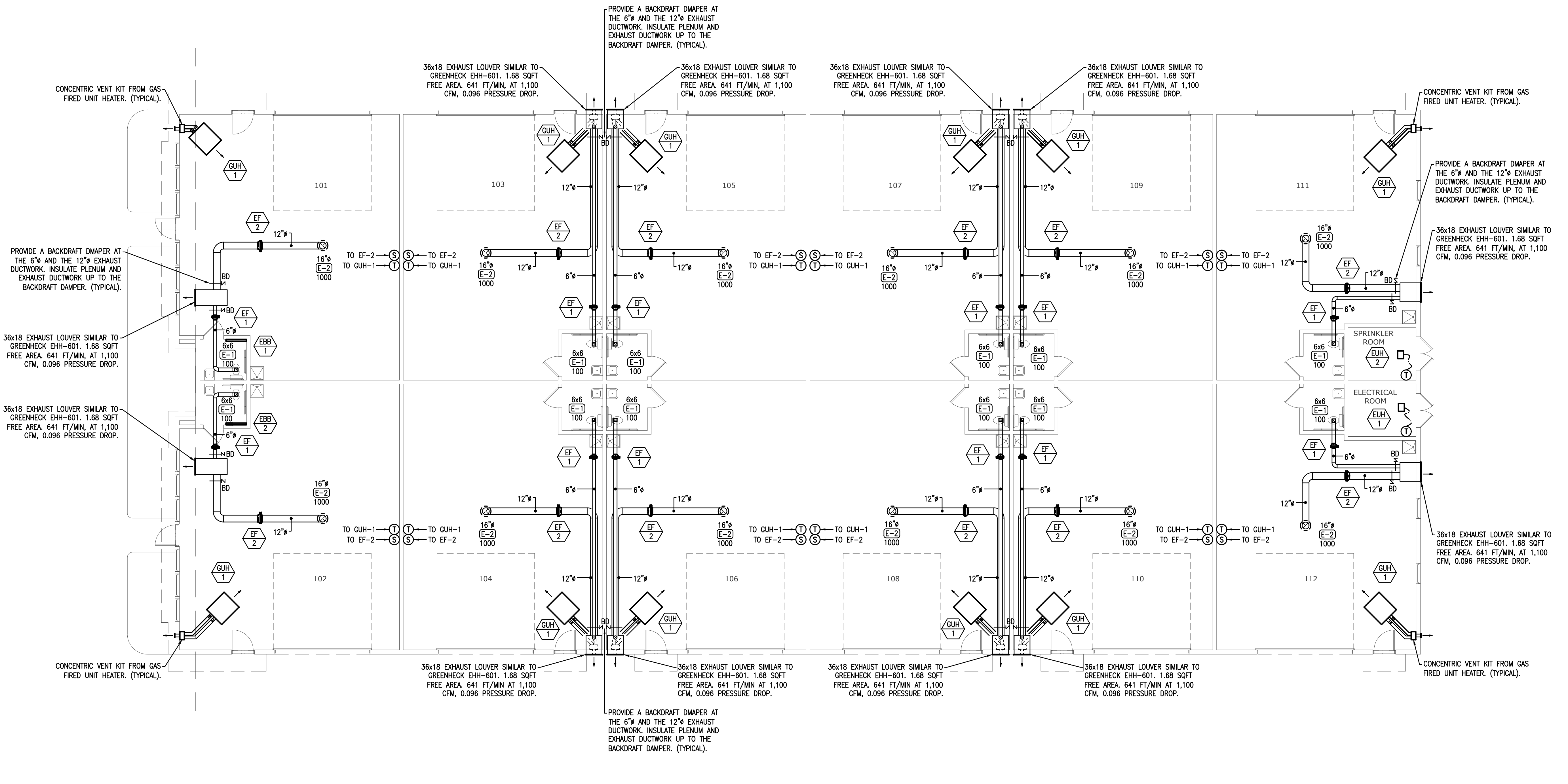
DAVID J. KNIGHT
No. 12602
REGISTERED PROFESSIONAL ENGINEER MECHANICAL

REVISIONS:
MECHANICAL LEGENDS, NOTES, SCHEDULES & DETAILS
SCALE: AS NOTED
DATE: NOVEMBER 15, 2024

Coddington Cove Commons
300 Coddington Highway
Middletown, Rhode Island, 02842

M.O.O

BER-72114



1 BUILDING 1: FLOOR PLAN - MECHANICAL
 Scale: 1/8" = 1'-0"

MECHANICAL NOTES

BASE BID: CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 100 CFM EXHAUST FAN (EF-1), NEW 6" EXHAUST DUCTWORK FROM A NEW EXHAUST GRILLE IN BATHROOM TO THE EXHAUST PLENUM AT A NEW 36x18 EXHAUST LOUVER AT THE EXTERIOR OF THE BUILDING. PROVIDE AND INSTALL A NEW BACKDRAFT DAMPER IN THE NEW 12" EXHAUST DUCT AS CLOSE TO THE EXHAUST PLENUM AS POSSIBLE. INSULATE EXHAUST PLENUM FROM LOUVER TO BACKDRAFT DAMPER WITH MINIMUM R-8 DUCT INSULATION.

UNIT PRICE:

- CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR A NEW 1,000 CFM EXHAUST FAN (EF-2), NEW 12" EXHAUST DUCTWORK FROM A NEW EXHAUST GRILLE IN GARAGE BAY AREA TO THE 36x18 EXHAUST LOUVER THAT WAS INSTALLED AS PART OF THE BASE BID. PROVIDE AND INSTALL A NEW BACKDRAFT DAMPER IN THE NEW 12" EXHAUST DUCT AS CLOSE TO THE EXHAUST PLENUM AS POSSIBLE.
- CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR A CARBON MONOXIDE GAS DETECTION SYSTEM, INCLUDING ALL SENSORS, INTERLOCKING WIRING, AUDIBLE ALARMS AND CONTROL PANELS AS REQUIRED. GAS DETECTION SYSTEM SHALL BE SIMILAR TO TOXALERT GW-1. GAS DETECTION SYSTEM SHALL BE INTERLOCKED WITH THE EXHAUST FAN (EF-2) IN LIEU OF THE WALL SWITCH.

PERMIT SET
 11/15/2024
 DATE

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LEGEND NOTES

MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS INDICATED OTHERWISE ON ELECTRICAL DRAWINGS OR ARCHITECTURAL ELEVATIONS

ALL SYMBOLS MAY NOT BE SHOWN ON PLANS

HOMERUNS

HOMERUN TO PANELBOARD: "P" DENOTES PANEL, "1" DENOTES CIRCUIT NUMBER, "20 AMP, 1 POLE CIRCUIT BREAKER UNLESS INDICATED OTHERWISE. WIRING SHALL BE 2#12+1#12G IN 3/4" AT MINIMUM.

MULTI-POLE HOMERUN TO PANELBOARD: "P" DENOTES PANEL, "2,4,6" DENOTES CIRCUIT NUMBERS, "30/3" DENOTES 30 AMP 3 POLE CIRCUIT BREAKER. WIRING SHALL BE AS INDICATED.

RACEWAYS AND WIRING

—E— 2#10,#10G EMERGENCY ONLY WIRING

—CT— CABLE TRAY - REFER TO SPECIFICATIONS FOR REQUIREMENTS

~ FLEXIBLE CONNECTION TO EQUIPMENT, RACEWAY AND CONDUCTOR RATING TO MATCH ASSOCIATED BRANCH CIRCUIT OR FEEDER.

— BRANCH CIRCUIT OR FEEDER CONCEALED IN FINISHED AREA.

— BRANCH CIRCUIT OR FEEDER CONCEALED UNDER FINISHED FLOOR.

— BRANCH CIRCUIT OR FEEDER TURNING UP TOWARDS OBSERVER.

— BRANCH CIRCUIT OR FEEDER TURNING DOWN AWAY FROM OBSERVER.

— CONDUIT STUBBED ABOVE CEILING.

LIGHTING FIXTURES

A 2a SURFACE OR RECESSED MOUNTED LIGHTING FIXTURE ON NORMAL CIRCUIT. "A" DENOTES FIXTURE TYPE, "2" DENOTES CIRCUIT NUMBER, "a" DENOTES SWITCH CONTROL.

Lighting fixture wired to constant-on or normal emergency circuit

— SURFACE OR RECESSED MOUNTED LINEAR LIGHTING FIXTURE

— PENDANT MOUNTED LINEAR LIGHTING FIXTURE

○ ROUND RECESSED LIGHTING FIXTURE

⊕ DECORATIVE PENDANT LIGHTING FIXTURE

⊙ WALL MOUNTED LIGHTING FIXTURE

⊙ WALL WASH OR DIRECTIONAL LIGHTING FIXTURE

⊙ CEILING MOUNTED ILLUMINATED EXIT SIGN, SINGLE OR DOUBLE FACE, WITH OR WITHOUT ARROWS AS INDICATED ON DRAWINGS

⊙ WALL MOUNTED ILLUMINATED EXIT SIGN - SHADING INDICATES FACE PLATE(S)

Self-contained emergency lighting unit

Remote emergency lighting heads - single or double as shown.

□ POLE MOUNTED SITE LIGHTING FIXTURE

— TRACK LIGHTING AND HEADS; LENGTH OF TRACK AND QUANTITY OF HEADS AS SHOWN ON FLOOR PLANS

INV INVERTER

LIGHTING CONTROLS

LIGHTING CONTROL DEVICES:
E.C. SHALL PROVIDE A WALL PLATES AS REQUIRED. COLOR OF DEVICES AND WALL PLATES BY ARCHITECT.

Sa SINGLE POLE TOGGLE SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

S3a THREE WAY TOGGLE SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

S4a FOUR WAY TOGGLE SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

L_a LINE VOLTAGE MOMENTARY ON/OFF WALL SWITCH; SENSORWORX# SWX-821-XX. SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

TC_a SINGLE GANG WALLBOX ASTRONOMICAL TIMECLOCK; SENSORWORX# #SWX-TIME-KIT / SWX-900-AX. SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

PP POWER PACK; SENSORWORX# SWX-900-AX. PROVIDE POWER PACK PER SWITCH LEG OR CIRCUIT AS REQUIRED.

VS LINE VOLTAGE 0-10V DIMMING WALL SWITCH PIR VACANCY SENSOR; SENSORWORX# SWX-103-D-XX.

CS LOW VOLTAGE CEILING MOUNTED SMALL MOTION DUAL TECH OCCUPANCY SENSOR; SENSORWORX# SWX-Z21-1.

RECEPTACLES AND POWER DEVICES

IG 2 48" WP DUPLEX RECEPTACLE, "2" DENOTES CIRCUIT NUMBER, "48" DENOTES MOUNTING HEIGHT (18" UNLESS OTHERWISE NOTED), "IG" DENOTES ISOLATED GROUND TYPE DEVICE, "WP" DENOTES WEATHER PROOF COVER

⊕ DOUBLE DUPLEX RECEPTACLE

⊕ DOUBLE DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON THE ARCHITECTURAL PLANS

⊕ DUPLEX RECEPTACLE ONE HALF SWITCH CONTROLLED

⊕ EWC DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER. PROVIDE DEDICATED 20A/1P GFCI CIRCUIT BREAKER UNLESS NOTED OTHERWISE.

⊕ DUPLEX RECEPTACLE FLOOR MOUNTED

⊕ L6-30 SPECIAL PURPOSE RECEPTACLE, "L6-30" DENOTES TYPE, SEE POWER PLANS FOR EXACT TYPES USED.

⊕ SINGLE RECEPTACLE

⊕ DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE

⊕ CEILING MOUNTED DUPLEX RECEPTACLE

⊕ DUPLEX RECEPTACLE WITH (2) USB TYPE A PORTS.

12 FACTORY WIRED, FIELD ASSEMBLED UL LISTED, MULTIOUTLET ASSEMBLY. "12" DENOTES SINGLE RECEPTACLES MOUNTED ON 12" CENTERS

⊕ FIELD WIRED, UL LISTED, OF MULTIOUTLET ASSEMBLY, QUANTITY AND TYPE DEVICES AS INDICATED

⊕ SURFACE MOUNTED RACEWAY, DIVIDED RACEWAY WITH DATA AND DUPLEX RECEPTACLES AS INDICATED

FLOOR BOX WITH FLUSH MOUNTED DEVICES. FLOOR BOX SHALL BE EQUAL TO WIREMOLD EVOLUTION SERIES. PROVIDE (2) DUPLEX RECEPTACLES VIA 3/4". (1) GANG FOR TELECOMMUNICATIONS VIA 1" C. AND (1) GANG FOR AV VIA 1-1/2". FINISH BY ARCHITECT. PROVIDE ALL REQUIRED BLANK COVER PLATES AND ACCESSORIES FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION. COORDINATE EXACT REQUIREMENTS WITH OWNER AND THEIR TELCOM AND AV VENDOR PRIOR TO THE START OF ANY WORK.

POWER DISTRIBUTION SYSTEM

■ DISTRIBUTION PANEL

■ PANELBOARD, SURFACE MOUNTED

■ PANELBOARD, FLUSH MOUNTED

⊙ JUNCTION BOX, SIZED PER NEC

⊙ MOTOR, "2" DENOTES HORSEPOWER

STP MANUAL MOTOR STARTER WITH THERMAL OVERLOAD. "P" DENOTES PILOT LIGHT

⊕ MAGNETIC MOTOR STARTER WITH ENCLOSURE, MINIMUM SIZE NEMA 1

30/3 NON-FUSED DISCONNECT SWITCH: "30/3" DENOTES 30 AMP/3 POLE SWITCH

30/20/3 FUSED DISCONNECT SWITCH: "30/20/3" DENOTES 30 AMP/3 POLE SWITCH, 20 AMP FUSES

⊕ COMBINATION MAGNETIC STARTER AND FUSED DISCONNECT SWITCH. SIZE OF STARTER, SWITCH AND FUSE AS REQUIRED

T15 DRY-TYPE DISTRIBUTION TRANSFORMER. "15" DENOTES SIZE.

ATS AUTOMATIC TRANSFER SWITCH

KT2 "K" FACTOR DRY TYPE TRANSFORMER, "2" DENOTES SIZE

TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION

⊕ METER SOCKET AND UTILITY METER BY UTILITY COMPANY

CB ENCLOSED CIRCUIT BREAKER

UPS UNINTERRUPTIBLE POWER SUPPLY

EGB ELECTRICAL GROUNDING BUSBAR

EMGB ELECTRICAL MAIN GROUNDING BUSBAR

⊕ GROUND

TELECOMMUNICATIONS

TELECOMMUNICATIONS:
E.C. SHALL PROVIDE A DOUBLE GANG BACK BOX WITH SINGLE GANG REDUCER, 1" CONDUIT AND PULLSTRING STUBBED OUT ABOVE ACCESSIBLE CEILING AT ALL LOCATIONS. ALL DEVICES SHALL BE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.

▼ TELEPHONE OUTLET

▼ W TELEPHONE OUTLET MOUNTED 54" AFF

▼ TELEPHONE OUTLET FLOOR MOUNTED

▼ COMPUTER SYSTEM OUTLET

▼ COMPUTER SYSTEM OUTLET, FLOOR MOUNTED

▼ COMBINATION TELEPHONE/DATA OUTLET

▼ WIRELESS ACCESS POINT

PP/T/D COMBINATION TELEPHONE/DATA POWER POLE ASSEMBLY

TGB TELECOMMUNICATIONS GROUNDING BUSBAR

TMGB TELECOMMUNICATIONS MAIN GROUNDING BUSBAR

TELECOMMUNICATION TERMINAL BOARD, PROVIDE GRADE "A", 3/4" PLYWOOD COMPLETELY PAINTED WITH FIREPROOF PAINT AS REQUIRED PER CODE. COORDINATE PAINT COLOR WITH ARCHITECT.

ABBREVIATIONS

3R	NEMA 3R RATING	JB	JUNCTION BOX
4X	NEMA 4X RATING	KCMIL	ONE THOUSAND CIRCULAR MILS
A/AMP	AMPERES	KVA	KILOVOLT-AMPERES
AC	ALTERNATING CURRENT	KW	KILOWATTS
ADA	AMERICAN WITH DISABILITIES ACT	MCA	MINIMUM CIRCUIT AMPS
AF	AMPERE FRAME	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MD	MOTORIZED DAMPER
AHJ	AUTHORITY HAVING JURISDICTION	MLO	MAIN LUGS ONLY
AIC	AMPERE INTERRUPTING CAPACITY	MOC	MAXIMUM OVER-CURRENT PROTECTION
AL	ALUMINUM	MH	MANHOLE
AT	AMPERE TRIP	N	NEUTRAL
ARCH	ARCHITECT	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NL	NIGHT LIGHT
BFG	BELOW FINISHED GRADE	NIC	NOT IN CONTRACT
C	CONDUIT	NO	NORMALLY OPEN
C.T.	CURRENT TRANSFORMER	NTS	NOT TO SCALE
CAT	CATALOG	∅	PHASE
CATV	CABLE TELEVISION	P	POLE
CB	CIRCUIT BREAKER	PC	PLUMBING CONTRACTOR
CCTV	CLOSED CIRCUIT TV SYSTEM	P.T.	POTENTIAL TRANSFORMER
CD	CANDELA	PVC	POLYVINYL CHLORIDE
CKT	CIRCUIT	SN	SOLID NEUTRAL
CU	COPPER	SM	SURFACE MOUNT
dB	DECIBEL	ST	SHUNT TRIP
DC	DIRECT CURRENT	T/D	TEL/DATA
DWG	DRAWING	TEL	TELEPHONE
E	WIRED ON EMERGENCY CIRCUIT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
EC	ELECTRICAL CONTRACTOR	TYP	TYPICAL
EM	EMERGENCY	UG	UNDERGROUND
F	FAHRENHEIT	UL	UNDERWRITERS LABORATORIES
FBA	FINISH BY ARCHITECT	UNO	UNLESS NOTED OTHERWISE
FLA	FULL LOAD AMPERES	UPS	UNINTERRUPTIBLE POWER SUPPLY
G	GROUND	V	VOLTS
GC	GENERAL CONTRACTOR	VA	VOLT-AMPERE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VFD	VARIABLE FREQUENCY DRIVE
HH	HAND HOLE	VIF	VERIFY IN FIELD
HP	HORSE POWER	W	WATT
HVAC	HEATING, VENTILATION, AIR CONDITIONING CONTRACTOR	WP	WEATHERPROOF
HZ	HERTZ	XFMR	TRANSFORMER
IG	ISOLATED GROUND		

MISCELLANEOUS

CP CONTROL PANEL

PB PULL BOX - SIZED PER NEC FOR CONDUITS ENTERING AND LEAVING AS REQUIRED

TV CABLE TELEVISION OUTLET, WALL MOUNTED. E.C. SHALL PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING. PROVIDE FACEPLATE WITH TYPE "F" CONNECTOR AT BOX.

DB DISPLAY OUTLET BOX; REFER TO AUDIO VISUAL DRAWINGS FOR ADDITIONAL INFORMATION.

GP GARAGE DOOR 3 BUTTON CONTROL STATION.

HP PUSHBUTTON AND PLATE

120 VOLT RECESSED CLOCK HANGER OUTLET

CENTRAL SYSTEM CLOCK WIRED TO CORRECTIVE CLOCK WIRING SYSTEM 12" DIAMETER UNLESS OTHERWISE NOTED "SP" DENOTES SHATTER GUARD

CS CLOCK/SPEAKER COMBINATION

MCP MASTER CLOCK PANEL

INT INTERCOM

MIP MASTER INTERCOM PANEL

DBL DOOR BELLBUZZER, LOW VOLTAGE

LT LOW VOLTAGE TRANSFORMER

MUSHROOM TYPE PUSHBUTTON STATION FOR ACTIVATION OF SHUNT-TRIP DEVICE ON INDICATED CIRCUIT BREAKER

COAXIAL CABLE OUTLET

#/### PARTIAL PLANDETAIL CALL OUT TAG; TOP NUMBER INDICATES PLANDETAIL AND BOTTOM NUMBER INDICATES SHEET CONTAINING PLANDETAIL.

FLUSH VALVE/SENSOR FAUCET POWER CONNECTION TO ALL TRANSFORMERS FOR PLUMBING FIXTURES IN ROOM COORDINATE EXACT REQUIREMENTS AND LOCATIONS WITH PLUMBING CONTRACTOR.

LIGHTING FIXTURE NOTES

1. PROVIDE ACCESSORIES AND MOUNTING HARDWARE FOR ALL FIXTURES.
2. COLORS AND FINISHES SHALL BE AS SELECTED BY ARCHITECT.
3. COORDINATE EXACT LOCATIONS OF ALL FIXTURES WITH ARCHITECT'S REFLECTED CEILING PLAN, ELEVATIONS, SECTIONS, AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
4. SUPPORT EACH LIGHTING FIXTURE INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM AND COORDINATE LOCATIONS WITH REFLECTED CEILING PLAN AND OTHER TRADES TO AVOID CONFLICT.
5. E.C. SHALL ENSURE THAT ALL PROPOSED SWITCHES AND DIMMER SWITCHES ARE COMPATIBLE WITH THE LIGHT FIXTURE(S) INDICATED TO BE CONTROLLED. INSTALL ALL SWITCHES AND DIMMER SWITCHES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
6. ALL SELF-CONTAINED EMERGENCY LIGHTING UNITS AND EXIT LIGHTING IN THE BUILDING SHALL BE CONNECTED TO THE NEAREST UN-SWITCHED LIGHTING CIRCUIT SERVING THE AREA WITH 2#12, 3/4" CONDUIT UNLESS OTHERWISE NOTED.
7. LOCATIONS OF ALL SWITCHES SHALL COMPLY WITH ADA CRITERIA.
8. WHERE SWITCH CONTROLS ("a", "b", ETC.) ARE INDICATED, WIRE THE SWITCHES TO THE RESPECTIVE LIGHT FIXTURE. IF A FIXTURE HAS TWO OR MORE SWITCH DESIGNATIONS, WIRE FIXTURE SO THAT IT WILL BE CONTROLLED BY THE SWITCHES INDICATED.
9. WIRE EXIT SIGNS TO LIGHTING CIRCUIT SERVING THE AREA AHEAD OF ALL CONTROLS.
10. WIRE NIGHT LIGHTING FIXTURES FOR 24/7 OPERATION VIA UN-SWITCHED CIRCUIT AS INDICATED.
11. METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNISTRUT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDINGS STRUCTURAL FRAMING AS REQUIRED TO SUPPORT ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.

BRANCH CIRCUIT WIRING NOTES

1. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
4. ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
5. A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.
6. PROVIDE A NEUTRAL CONDUCTOR TO ALL NEW LIGHTING SWITCH BOXES PER NEC ARTICLE 404.2.
7. IN ALL NON-DWELLING TYPE OCCUPANCIES, ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL PER NEC ARTICLE 210.8(B)(2).

MECHANICAL/PLUMBING EQUIPMENT TAG

RTU MECHANICAL/PLUMBING EQUIPMENT TAG. "RTU" DENOTES EQUIPMENT TYPE. "1" DENOTES EQUIPMENT NUMBER. REFER TO "SCHEDULE FOR MECHANICAL/PLUMBING EQUIPMENT" FOR ALL CIRCUIT INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUIT WIRING, CONDUIT SIZE, VOLTAGE, PHASE, DISCONNECT SWITCH, AND CIRCUIT BREAKER. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR EXACT EQUIPMENT LOCATIONS AND EQUIPMENT TYPE ABBREVIATIONS. COORDINATE EXACT CONNECTIONS REQUIRED WITH MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS AND MANUFACTURER'S CUT SHEET/SPECIFICATIONS.

SITE LEGEND

UTILITY POLE

MANHOLE; REFER TO DETAIL FOR ADDITIONAL INFORMATION.

HANDHOLE; REFER TO DETAIL FOR ADDITIONAL INFORMATION.

PAD MOUNTED TRANSFORMER

—P— PRIMARY CONDUIT DUCT BANK

—S— SECONDARY CONDUIT DUCT BANK

—T— TELEPHONE SERVICE CONDUIT DUCT BANK

—CATV— CABLE TELEVISION CONDUIT DUCT BANK

—FA— FIRE ALARM CONDUIT DUCT BANK

—OPE— OVERHEAD PRIMARY ELECTRIC

—OSE— OVERHEAD SECONDARY ELECTRIC

PERMIT SET
DATE 11/15/2024

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DANIEL JAMES CARROLL
REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)
No. 6149

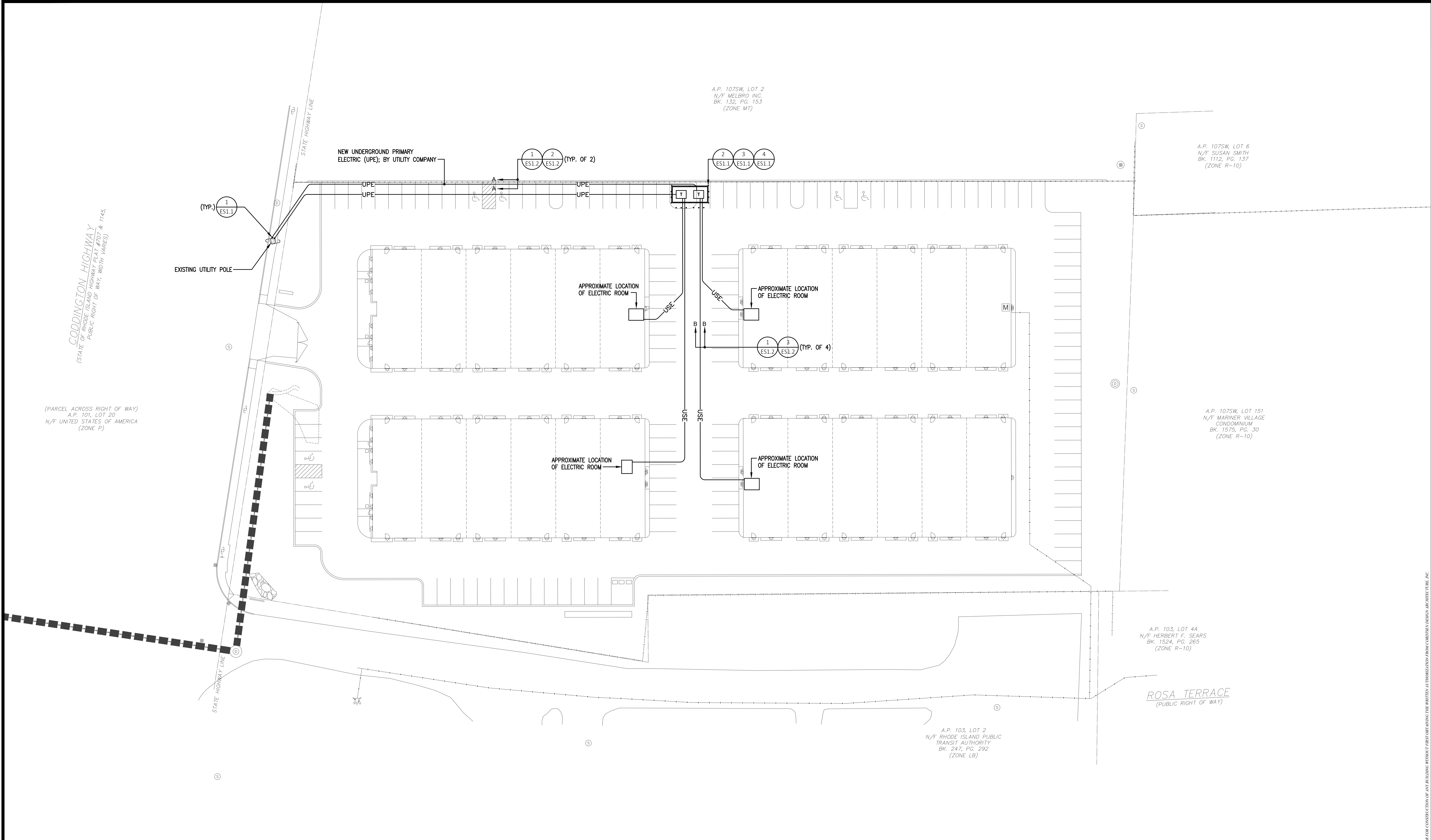
REVISIONS:

DESCRIPTION: ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND NOTES	SCALE: AS NOTED	DATE: NOVEMBER 15, 2024
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Coddington Cove Commons
300 Coddington Highway
Middletown, Rhode Island, 02842

E.O.0

BER # 24134



1 SITE PLAN - ELECTRICAL Scale: 1" = 30'



REVISIONS:

DESCRIPTION:	ELECTRICAL LAYOUT & UTILITY PLAN
SCALE:	AS NOTED
DATE:	NOVEMBER 15, 2024

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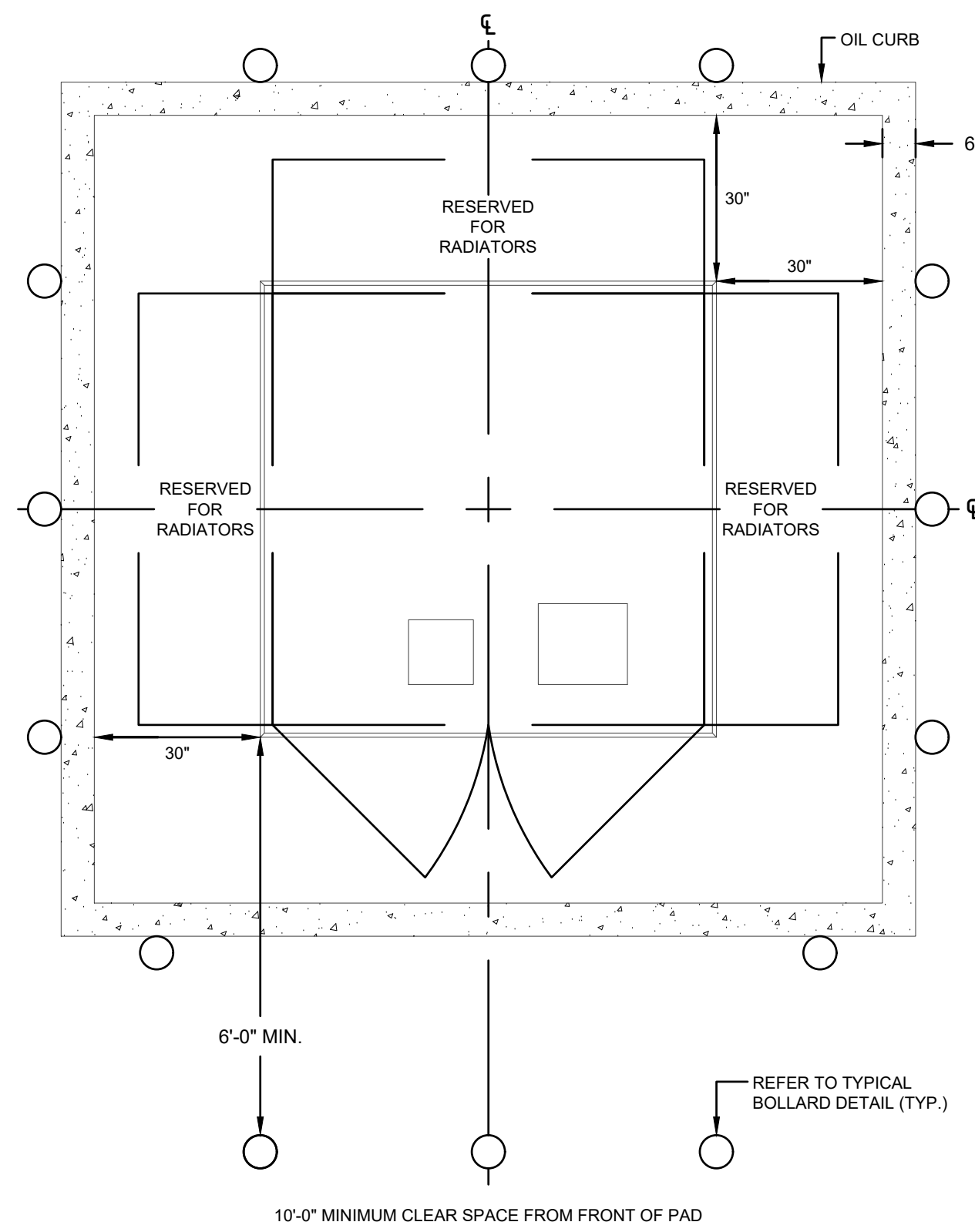
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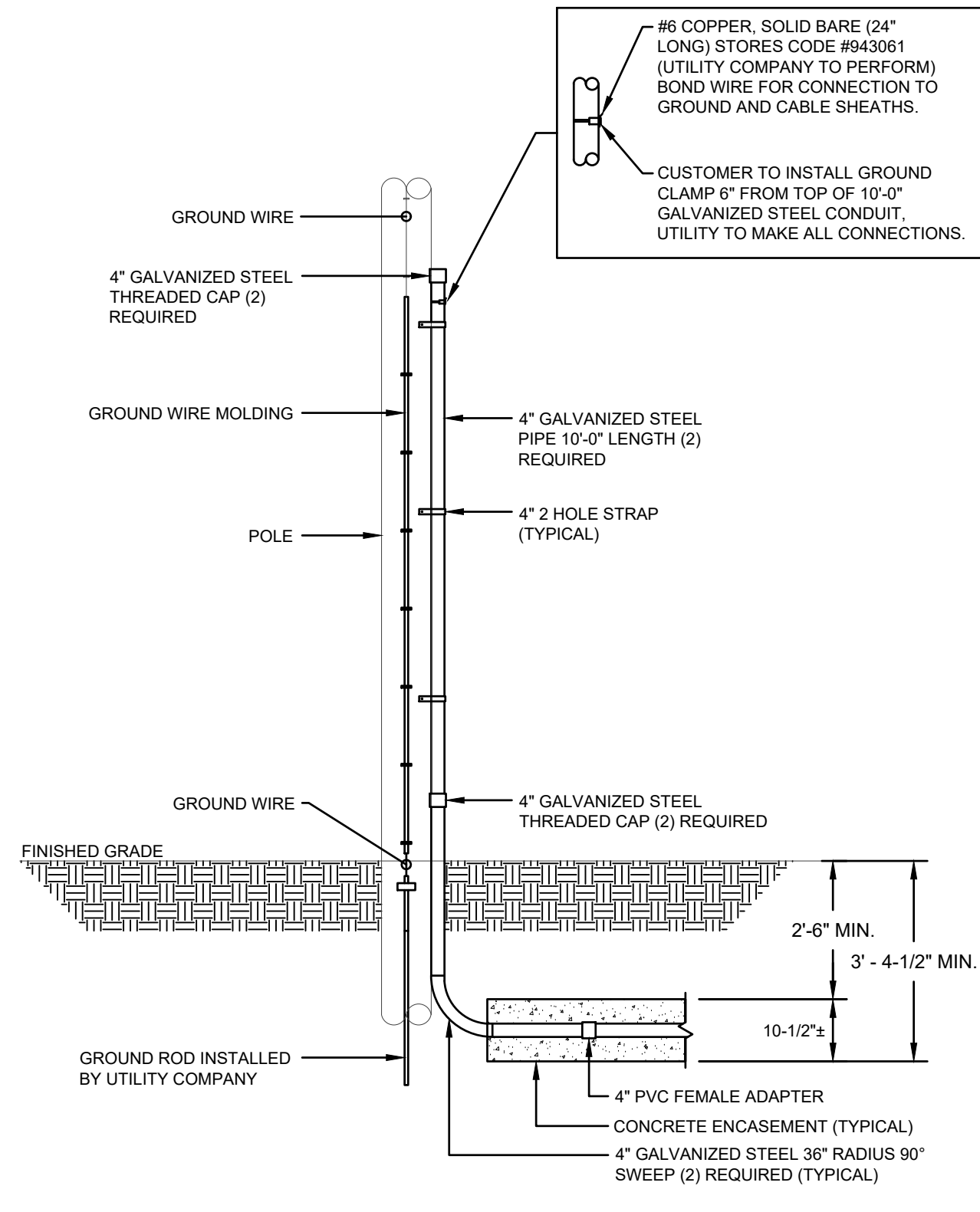
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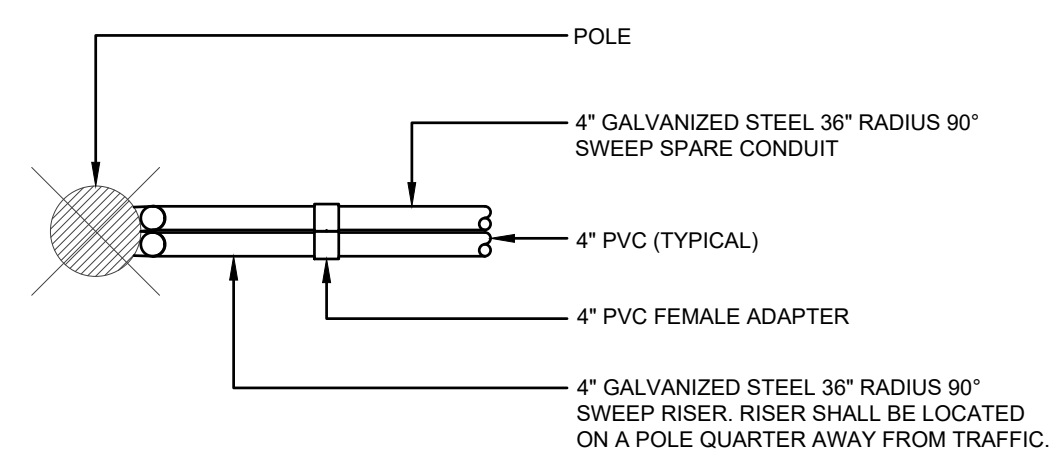


- NOTES:**
- UTILITY COMPANY DESIGN/PLANNING SHALL DESIGNATE THE NUMBER AND LOCATION OF BOLLARDS.
 - LOCATION OF BOLLARDS SHALL NOT IMPEDE A DOOR OPENING 100 DEGREES.
 - SPACING SHALL NOT EXCEED 5'-0" BETWEEN EACH BOLLARD.
 - THIS DETAIL IS FOR BIDDING PURPOSES ONLY. CONFORM TO UTILITY COMPANY DETAILS.

1 TRANSFORMER BOLLARD PLACEMENT DETAIL (OIL CURB) NTS



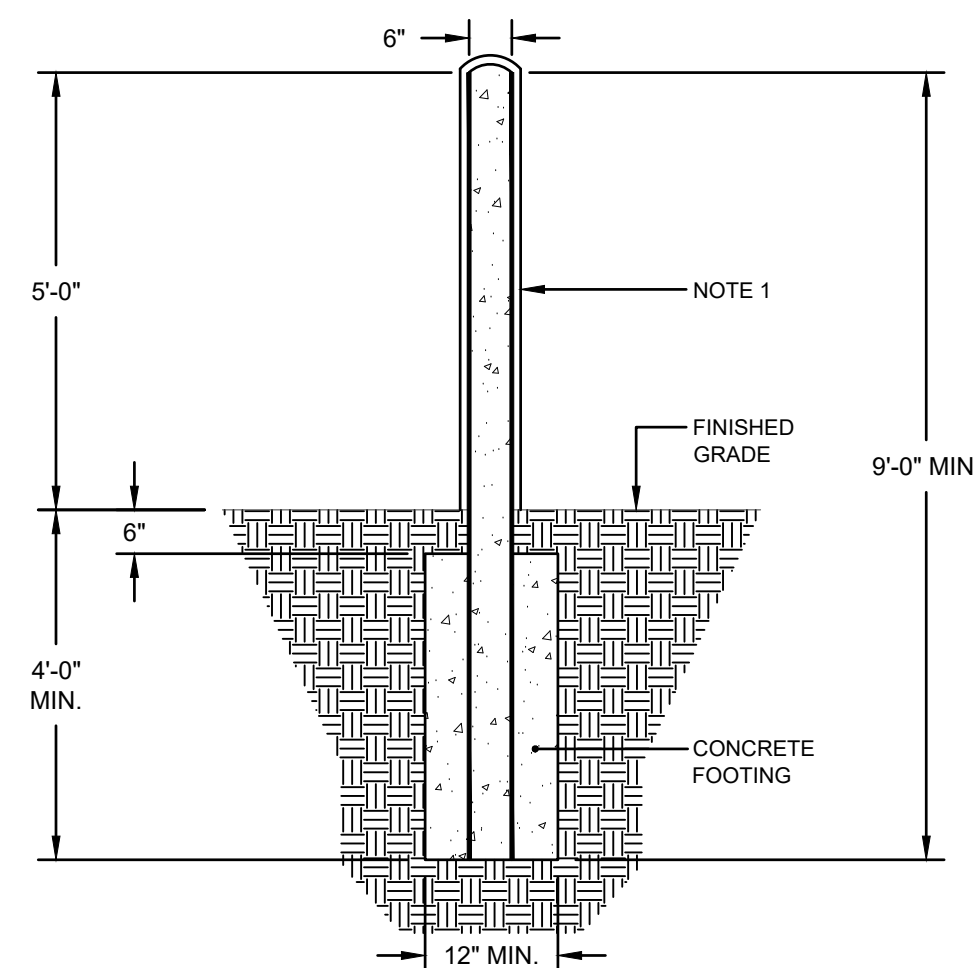
ELEVATION VIEW



PLAN VIEW

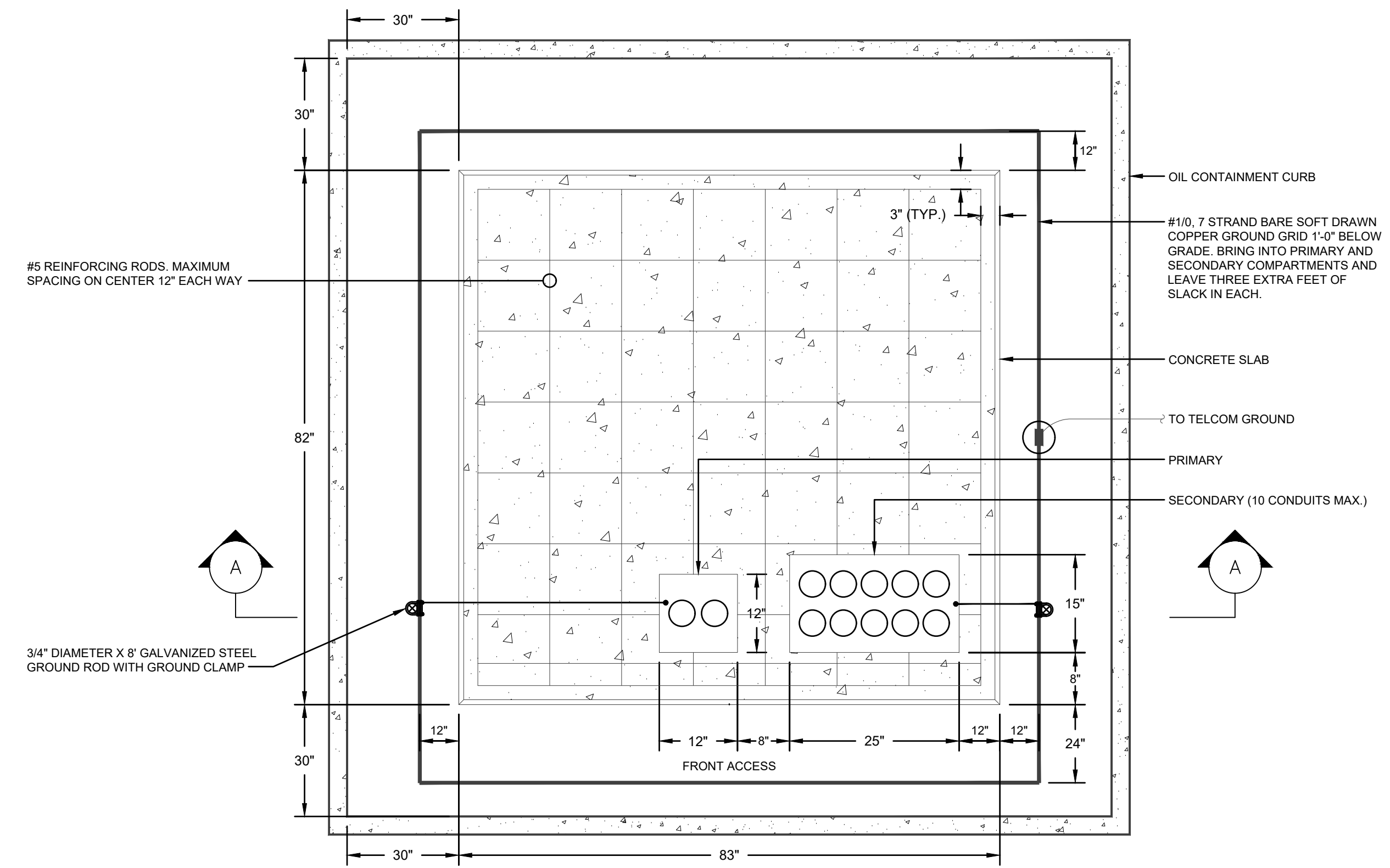
- NOTES:**
- ALL TRENCHING, REINFORCING, CONCRETE WORK, BACKFILLING, GRADING, AND SURFACING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. REFER TO UTILITY SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
 - THIS DETAIL IS FOR BIDDING PURPOSES ONLY. CONFORM TO UTILITY COMPANY DETAILS.

2 ELECTRICAL SERVICE RISER POLE DETAIL NTS

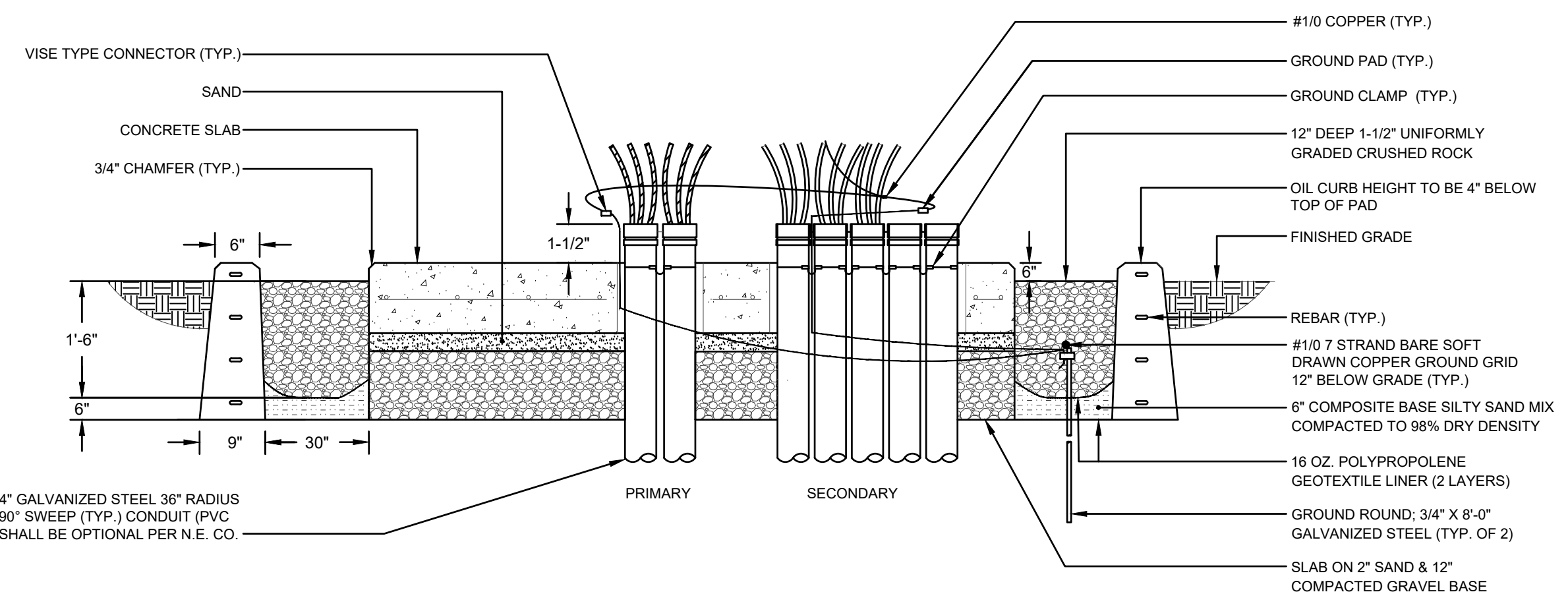


- NOTES:**
- CONCRETE FILLED 6" RIGID GALVANIZED STEEL PIPE. CONCRETE SHALL BE CROWNED ON TOP OF ALL BOLLARDS. WHEN BOLLARDS CAN NOT BE PAINTED PROVIDE PROTECTIVE BOLLARD COVER EQUAL TO INNOPLAST #BC760YV.
 - FOR BIDDING PURPOSES ONLY. CONFORM TO UTILITY COMPANY STANDARDS.

3 TYPICAL BOLLARD DETAIL NTS



PLAN VIEW



SECTION A-A

- NOTES:**
- INSTALL CONDUITS AS INDICATED ON THE SITE PLAN AND ONE-LINE DIAGRAM BEFORE SLAB IS POURED. USE 36" RADIUS BENDS, WITH COUPLINGS, NIPPLES AND BUSHINGS AS REQUIRED. BENDS FOR PRIMARY CABLES SHALL BE GALVANIZED STEEL. TERMINATIONS AND BUSHINGS SHALL BE INSTALLED AFTER THE TRANSFORMER IS PLACED, AND BEFORE THE CABLES ARE PULLED.
 - INSTALL #10/7 STRAND BARE SOFT DRAWN COPPER WIRE LOOP 21" BELOW GRADE. BOND TO ALL EXPOSED METALLIC CONDUIT AND LEAVE 3'-0" OF WIRE ABOVE PAD FOR GROUNDING TRANSFORMER AT TWO OPPOSITE POINTS IN THE CABLE CONDUIT OPENINGS. INSTALL TWO 6" GALVANIZED STEEL (3/4") GROUND RODS AND APPROVED CONNECTORS BELOW GROUND. LEAVE GROUND GRID EXPOSED UNTIL INSPECTED BY THE UTILITY COMPANY. CONNECTIONS TO GROUND GRID TO BE MADE PER UTILITY COMPANY REQUIREMENTS. EXOTHERMIC WELDING ("CALDWELD") SHALL BE AN ACCEPTABLE ALTERNATE TO COMPRESSION BOLTED CONNECTIONS.
 - CRUSHED ROCK, GRAVEL AND SAND SHALL BE PLACED PER UTILITY COMPANY STANDARDS. THE GRAVEL BEING THOROUGHLY COMPACTED, AND THE SAND THOROUGHLY WETTED, JUST BEFORE PLACING THE CONCRETE.
 - INSTALL CONCRETE SLAB IN ACCORDANCE WITH UTILITY COMPANY STANDARDS. ALL EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
 - REINFORCING RODS TO BE #5 AND SHALL CONFORM TO UTILITY COMPANY STANDARDS. REINFORCING RODS TO BE LOCATED IN CENTER OF THE SLAB, 12" ON CENTER MINIMUM, WITH A MINIMUM OF 3" CLEARANCE FROM FACE OF CONCRETE.
 - UPON COMPLETION OF THE SLAB, AND THE INSTALLATION OF CONDUIT, FILL THE OPEN AREA AROUND THE CONDUITS WITH CONCRETE AND GROUT AROUND THE CONDUIT TO SEAL THIS AREA.
 - INSTALL CONCRETE OIL CURB IN ACCORDANCE WITH UTILITY COMPANY STANDARDS. REINFORCE WITH (4) 1/2" RODS, SIX INCHES ON CENTER AS SHOWN. BEND RODS AROUND CORNERS. FILL AREA BETWEEN SLAB AND CURB WITH A 1-1/2" UNIFORMLY GRADED CRUSHED ROCK AND LINE WITH 2 LAYERS OF GEOTEXTILE LINER AS SHOWN. GEOTEXTILE LINERS TO BE SEPARATED BY A 6" LAYER OF WELL COMPACTED, SILTY SAND AND GRAVEL MIX. GEOTEXTILE LINE SHALL BE 16 OZ. POLYPROPYLENE GEOTEXTILE - ALL SEAMS TO OVERLAP 12" MINIMUM.
 - MANDREL COMPLETED DUCTS BY PULLING THROUGH AN APPROVED FLEXIBLE MANDREL NO LESS THAN 1/4" SMALLER IN DIAMETER THAN THE INSIDE DIAMETER OF THE DUCT. 2,500 LB PULLING TAPE SHALL BE LEFT IN ALL THE DUCTS, INCLUDING LATERALS.
 - PROVIDE PHYSICAL PROTECTION FOR TRANSFORMER VIA 6" CONCRETE FILLED BOLLARDS 5' ABOVE GRADE, 4' BELOW GRADE. LOCATE BOLLARDS IN ACCORDANCE WITH UTILITY COMPANY STANDARDS.
 - THIS DETAIL IS FOR BIDDING PURPOSES ONLY. CONFORM TO UTILITY COMPANY DETAILS.

4 TRANSFORMER PAD (750-2500KVA) WITH OIL CURB DETAIL NTS

PERMIT SET
DATE: 11/15/2024

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DANIEL JAMES CARROLL
No. 8149
REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)

REVISIONS:

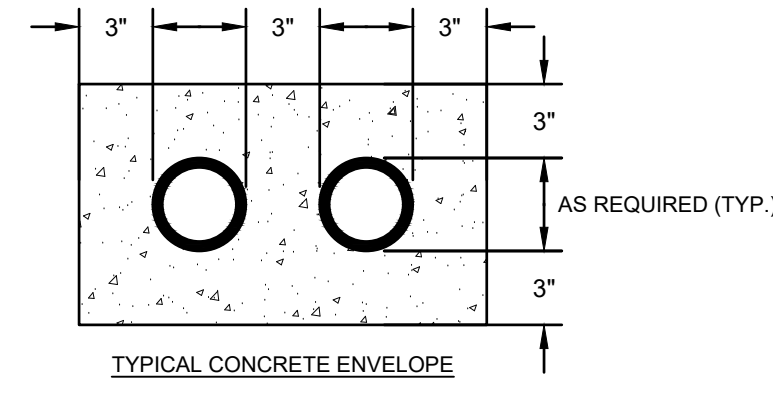
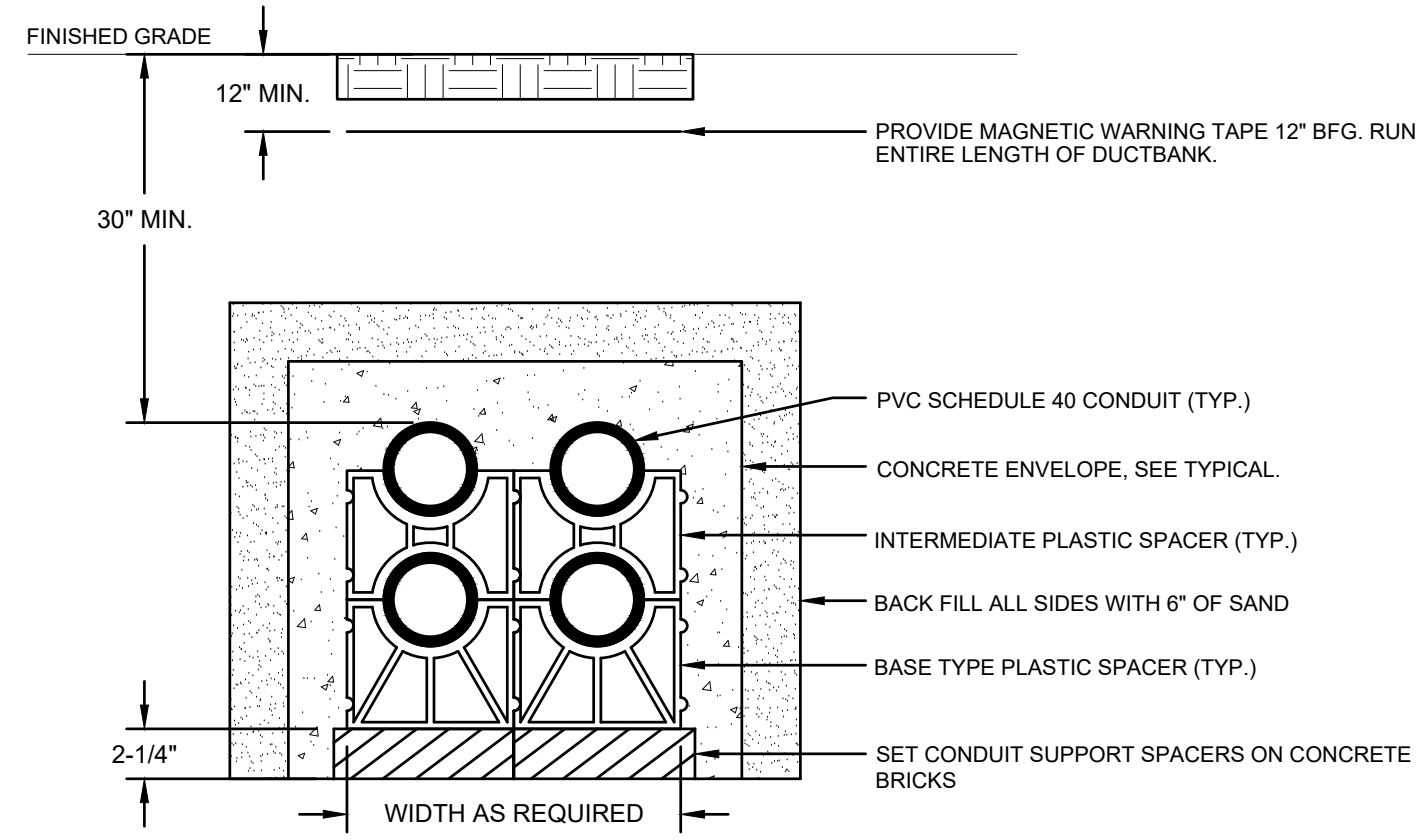
DESCRIPTION: ELECTRICAL SITE DETAILS

SCALE: AS NOTED

DATE: NOVEMBER 15, 2024

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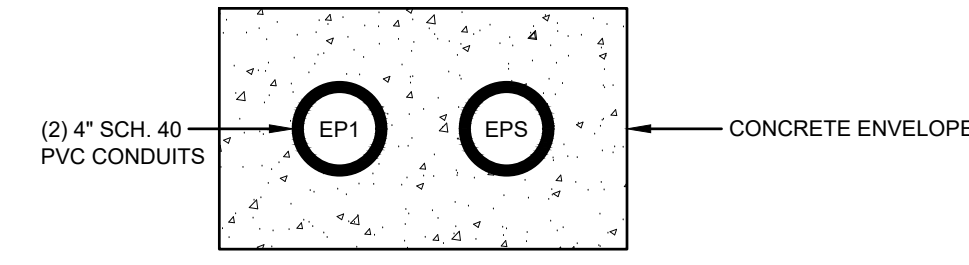
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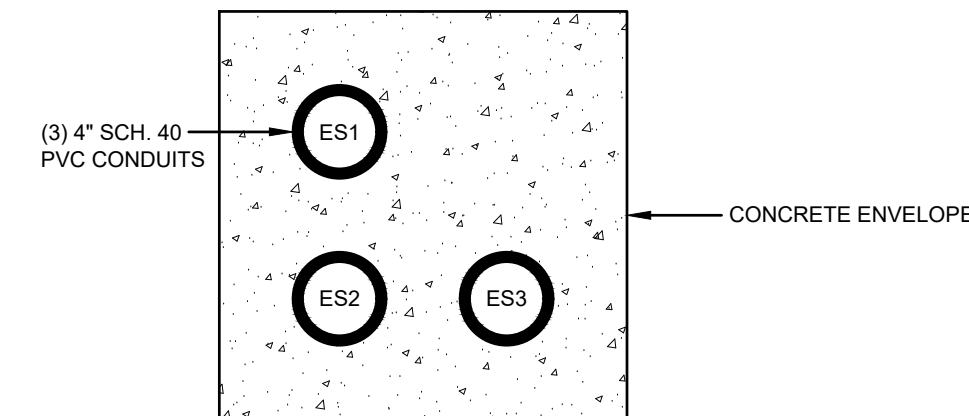
1. PRIOR TO INSTALLATION AND BACKFILL THE DUCTBANK CROSS SECTION AND TRENCH MUST BE COORDINATED, INSPECTED, AND APPROVED BY THE UTILITY COMPANY.
2. ALL TRENCHING, CONCRETE WORK, BACKFILLING, GRADING, AND RESURFACING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
3. ALL SWEEPS AT FOUNDATION AND RISER SHALL BE RIGID STEEL CONDUIT WITH A MINIMUM RADIUS OF 3'-0".
4. DIRECT-BURIED CONDUIT SHALL BE INSTALLED TO MEET THE MINIMUM COVER REQUIREMENTS OF NEC TABLE 300.5 AND 300.50.
5. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR 90° BENDS (360° TOTAL) BETWEEN PULL POINTS (NEC 352.26). BEND RADIUS SHALL NOT BE LESS THAN SHOWN IN TABLE 2, CHAPTER 9 OF THE NEC.
6. MINIMUM PITCH OF CONDUITS SHALL BE 3" PER ONE 100'-0". PITCH OF DUCTS SHALL CAUSE ALL DUCTS TO DRAIN TOWARD ONE END OR BOTH EQUIPMENT FOUNDATIONS OR PULL BOXES.
7. ALL BASE AND INTERMEDIATE PLASTIC SPACERS SHALL BE INTERLOCKING TYPE, CONSTRUCTED OF HIGH IMPACT PVC. SPACERS SHALL BE INSTALLED A MAXIMUM OF 5'-0" APART ALONG ENTIRE LENGTH OF RUN.
8. ELECTRIC UTILITY DUCTBANK SHALL NOT SHARE A CONCRETE ENCASUREMENT WITH FOREIGN UTILITIES. ELECTRIC UTILITY CONDUIT SHALL NOT BE DIRECTLY ABOVE OR BELOW TELECOMMUNICATION CONDUIT OR WATER, GAS, AND SEWER UTILITIES EXCEPT WHEN CROSSING AT APPROXIMATELY RIGHT ANGLES. WHERE THE PATHS OF THESE UTILITIES CROSS, TELECOMMUNICATIONS CONDUIT SHALL BE SEPARATED BY A MINIMUM OF 3" OF CONCRETE AND THE MINIMUM VERTICAL SEPARATION OF WATER, GAS, AND SEWER UTILITIES SHALL BE 12". A MINIMUM SEPARATION OF 12" SHALL BE MAINTAINED WHEN TELECOMMUNICATIONS CONDUIT RUNS PARALLEL TO ELECTRIC UTILITY CONDUIT. A MINIMUM SEPARATION OF 24" SHALL BE MAINTAINED WHEN WATER, GAS, AND SEWER UTILITIES RUN PARALLEL TO ELECTRIC UTILITY CONDUIT.
9. ELECTRICAL CONTRACTOR SHALL MANDREL ALL PRIMARY CONDUITS TO ENSURE THEIR INTEGRITY AND PROVIDE PULL ROPE IN EACH CONDUIT RUN, INCLUDING RISERS AND SPARES. ALL SPARE CONDUITS SHALL BE PLUGGED.
10. DETAIL IS SHOWN FOR BIDDING PURPOSES ONLY. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND COORDINATE EXACT SPECIFICATIONS WITH THE UTILITY COMPANY.

1 TYPICAL DUCTBANK CONSTRUCTION DETAIL



- NOTES:**
1. REFER TO "TYPICAL DUCTBANK CONSTRUCTION DETAIL".

2 DUCTBANK DETAIL "A-A"



- NOTES:**
1. REFER TO "TYPICAL DUCTBANK CONSTRUCTION DETAIL".

3 DUCTBANK DETAIL "B-B"



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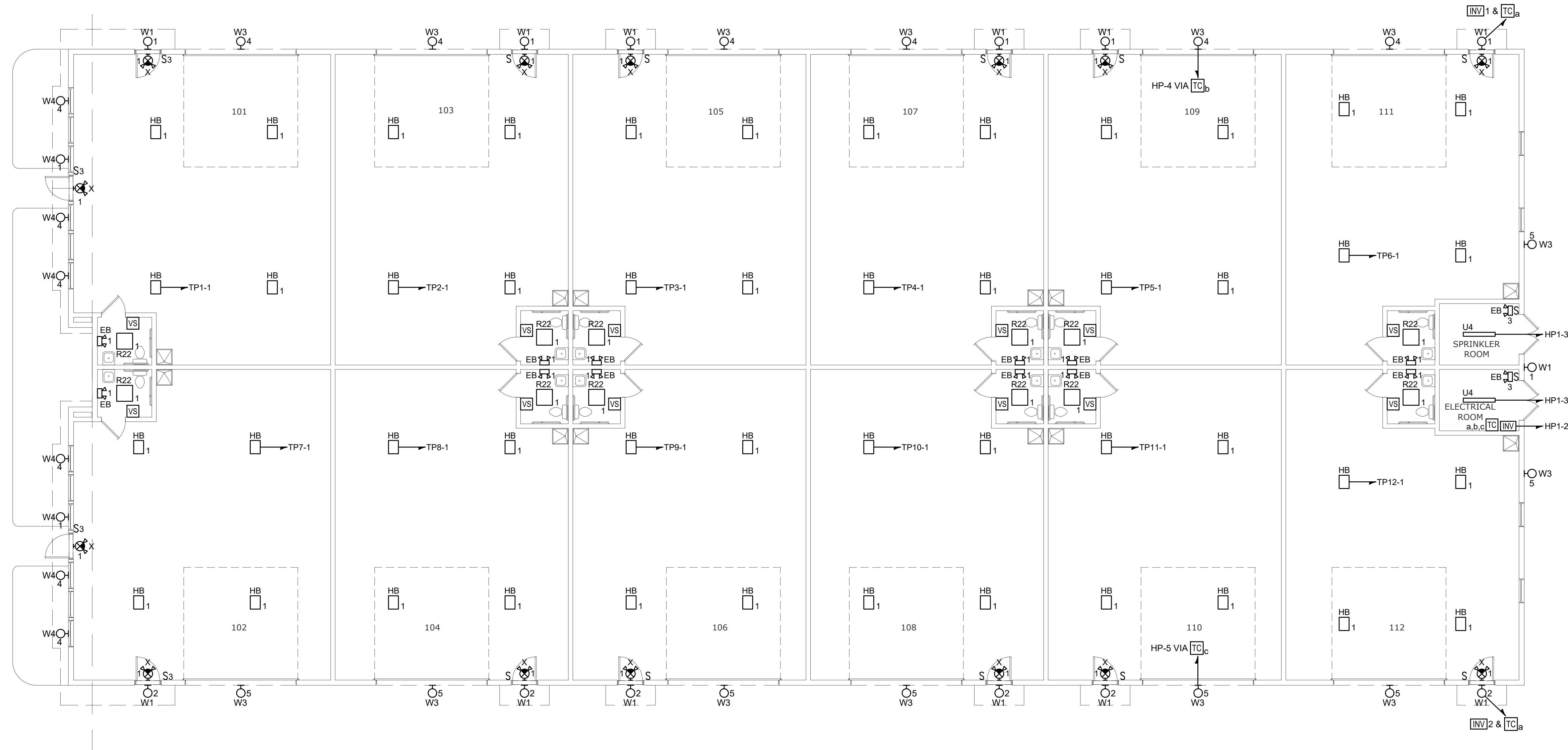
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ES1.2



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1 BUILDING 1: FLOOR PLAN - LIGHTING
Scale: 1/8" = 1'-0"

PERMIT SET
DATE: 11/15/2024

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DESCRIPTION: BUILDING 1: FLOOR PLAN - LIGHTING
SCALE: AS NOTED
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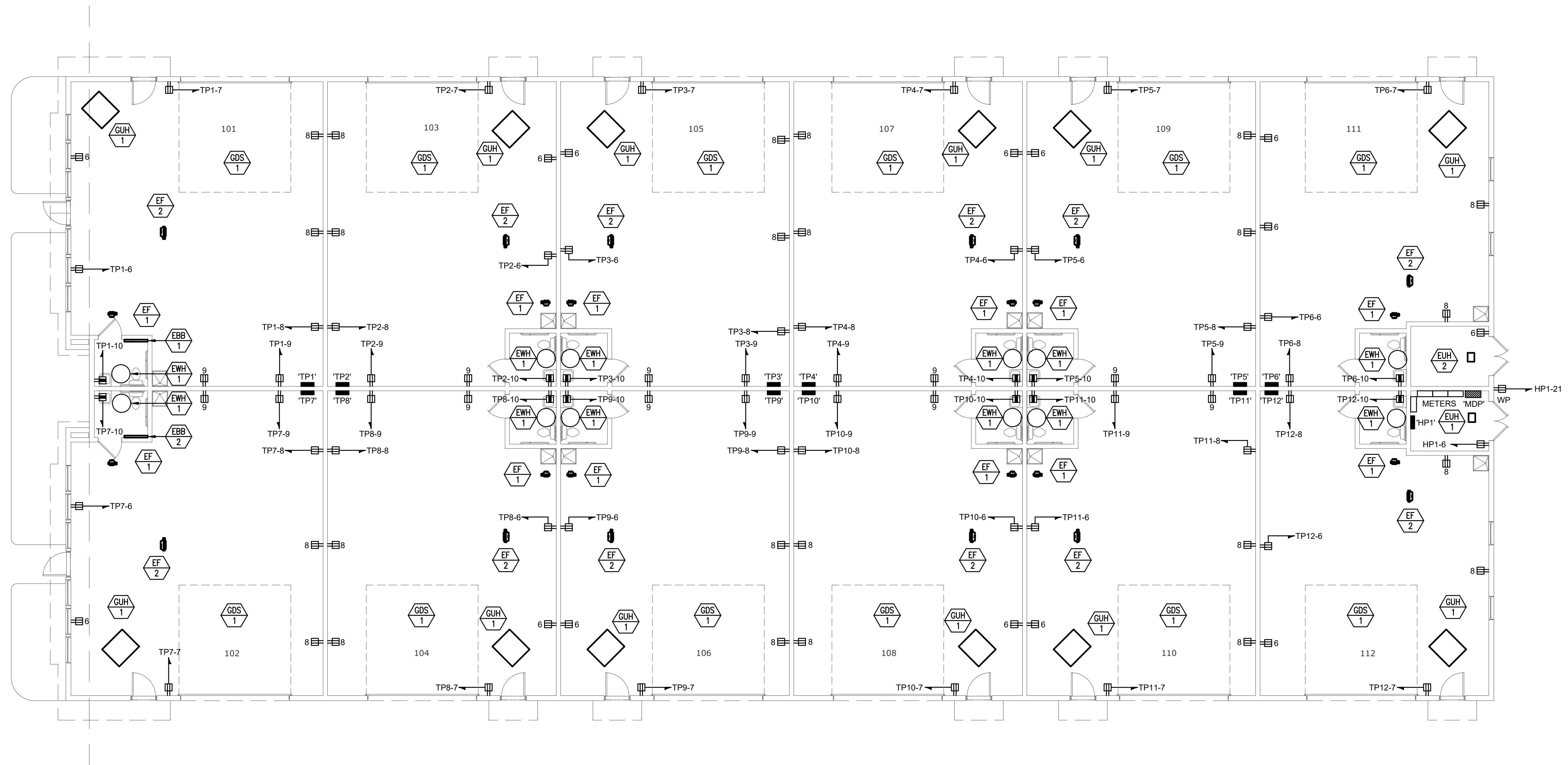
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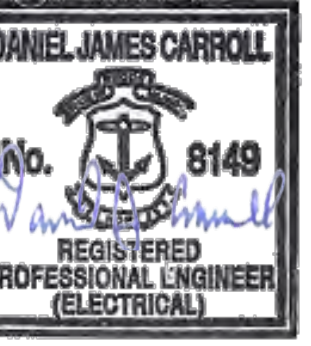
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KEYED SHEET NOTES

1 E.C. SHALL PROVIDE 120V CONNECTION FOR MOTORIZED DAMPER VIA HP1-22. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.



1 BUILDING 1: FLOOR PLAN - POWER
Scale: 1/8" = 1'-0"



REVISIONS:

DESCRIPTION: BUILDING 1: FLOOR PLAN - POWER
SCALE: AS NOTED
DATE: NOVEMBER 15, 2024

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E2.0

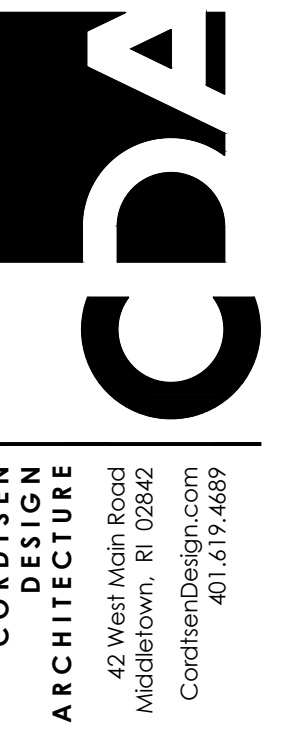
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NOT FOR CONSTRUCTION. THIS DOCUMENT IS FOR INFORMATION ONLY. BUILDING CONTRACTOR SHALL VERIFY ALL INFORMATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR. E.C. SHALL PROVIDE 120V CONNECTION FOR MOTORIZED DAMPER VIA HP1-22. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.

KEYED SHEET NOTES

- ① 1,200A/3P SERVICE ENTRANCE RATED, 100% RATED MCB WITH LSIG AND ARC FAULT MAINTENANCE SWITCH.
- ② PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSION DEVICE WITH MEDIUM EXPOSURE LEVEL (160KA) EQUAL TO EATON#SPD-160-K. MANUFACTURER OF SURGE PROTECTION DEVICE (SPD) SHALL MATCH THE PANELBOARD MANUFACTURER. PROVIDE 4#8-1#10G, 1"Ø, VIA 60A/3P CIRCUIT BREAKER TO SPD. EXACT LOCATION SHALL BE DETERMINED IN FIELD. PROVIDE WORKING CLEARANCES IN ACCORDANCE WITH THE NEC.
- ③ CONDUIT OVERSIZED SO LARGER CONDUCTORS MAY BE PULLED IN THE FUTURE.



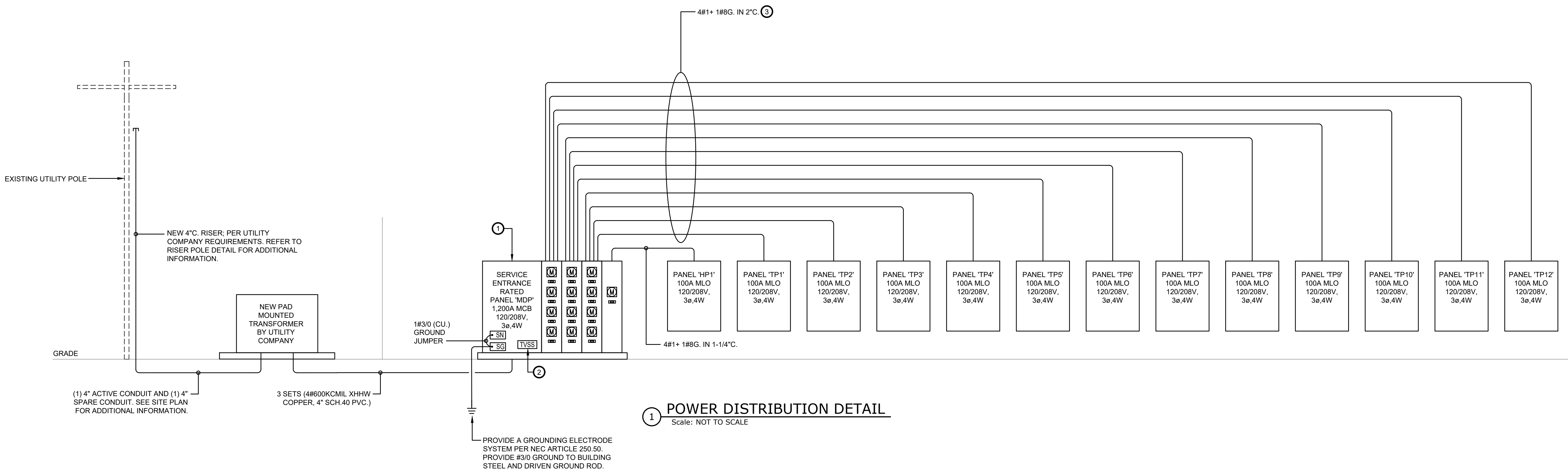
REVISIONS:

DESCRIPTION: ELECTRICAL RISER DIAGRAM

SCALE: AS NOTED
DATE: NOVEMBER 15, 2024

Coddington Cove Commons
300 Coddington Highway
Middletown, Rhode Island, 02842

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PERMIT SET
DATE: 11/15/2024

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LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER / SERIES	VOLTS	SOURCE			NOTES	
					TYPE	WATTS	LUMENS		COLOR/TEMP.
INTERIOR FIXTURES									
HB	SURFACE MOUNTED HIGH BAY FIXTURE WITH INTEGRAL BATTERY AND OC SENSOR	WILLIAMS	GS-2-L180-8-40-CA-AVI-LVFA-PIR-ELB	120	LED	116	18,002	4,000K	-
R22	2' X 2' RECESSED TROFFER FIXTURE	WILLIAMS	LT-22-L39-8-40-AF	120	LED	33.1	3,934	4,000K	-
U4	4' LINEAR UTILITY FIXTURE	WILLIAMS	75S-4-L50-8-40	120	LED	33	4,867	4,000K	-
EXTERIOR FIXTURES									
W1	WALL PACK FIXTURE	RAB	WPLED5Y	120	LED	5.3	128	3,000K	REFER TO RAB DARK SKY COMPLIANCE PLANS FOR MOUNTING HEIGHT
W2	WALL PACK FIXTURE	RAB	SLIM-12-3000	120	LED	15	2,006	3,000K	REFER TO RAB DARK SKY COMPLIANCE PLANS FOR MOUNTING HEIGHT
W3	WALL PACK FIXTURE	RAB	SLIM-18-3000	120	LED	20.9	2,695	3,000K	REFER TO RAB DARK SKY COMPLIANCE PLANS FOR MOUNTING HEIGHT
W4	GOOSENECK FIXTURE	RAB	GN5LED26YSTW	120	LED	28.9	1,348	3,000K	REFER TO RAB DARK SKY COMPLIANCE PLANS FOR MOUNTING HEIGHT
EMERGENCY FIXTURES									
	LED EXIT SIGN WITH EMERGENCY HEADS AND INTEGRAL BATTERY BACK-UP	WILLIAMS	EXIT/EM/LED-R-WHT-HL-D	120	LED	5.5	N/A	RED	-
	EMERGENCY BATTERY UNIT	WILLIAMS	EMER/LED-WHT	120	LED	1.8	N/A	N/A	-
	INVERTER	MYERS	LV-1-R-1-B2004-F-HH-LVST	120	N/A	175	N/A	N/A	-

MAIN DISTRIBUTION PANEL "MDP"						
VOLTAGE: 120/208V			PHASE: 3			
BUS RATING (CU): 1,200 AMPS			WIRE: 4			
MAINS: 1,200A MAIN CIRCUIT BREAKER			AIC: 42K			
CKT NO	OVERCURRENT DEVICE (AMP)			DESCRIPTION OF LOAD	REMARKS	CONNECTED LOAD (kW)
	FRAME	TRIP	POLES			
1	225	100	3	TENANT PANEL TP1	-	-
2	225	100	3	TENANT PANEL TP2	-	-
3	225	100	3	TENANT PANEL TP3	-	-
4	225	100	3	TENANT PANEL TP4	-	-
5	225	100	3	TENANT PANEL TP5	-	-
6	225	100	3	TENANT PANEL TP6	-	-
7	225	100	3	TENANT PANEL TP7	-	-
8	225	100	3	TENANT PANEL TP8	-	-
9	225	100	3	TENANT PANEL TP9	-	-
10	225	100	3	TENANT PANEL TP10	-	-
11	225	100	3	TENANT PANEL TP11	-	-
12	225	100	3	TENANT PANEL TP12	-	-
13	225	100	3	HOUSE PANEL HP1	-	-
14	225	-	-	SPACE AND HARDWARE	-	-
15	250	-	-	SPACE AND HARDWARE	"FOR FUTURE SOLAR PROVISIONS"	-

PANEL DESIGNATION	ELECTRICAL CHARACTERISTICS						BRANCH DEVICES											TOTAL POLES	MOUNTING HOLE SIZE (F/FUS)	GROUND BUS	TVSS DEVICE	ADDITIONAL BRANCH CIRCUIT BREAKERS	NOTES
	VOLTS	Ø	WIRE	AIC	BUS SIZE	MAIN	CIRCUIT BREAKER AMPS																
							MCB AMPS	MLO AMPS	15	20	25	30	35	40	45	50	60						
HP1	120/208	3	4	35K	100	-	100	1	1	14	1	1	-	-	-	-	-	30	S	✓	✓	2 - 20A/1P GFCI	BUILDING 1
HP1	120/208	3	4	35K	100	-	100	2	1	1	-	-	-	-	-	-	-	30	S	✓	✓	-	TYPICAL OF 3; BUILDINGS 2-4
TPX	120/208	3	4	22K	100	-	100	1	5	12	-	-	-	-	-	-	-	30	S	✓	✓	-	SEE NOTE 1

NOTES:
1. TYPICAL OF (4) FOUR BUILDINGS, FOR (12) TWELVE PANELS 'TP1-TP12' IN EACH BUILDING.

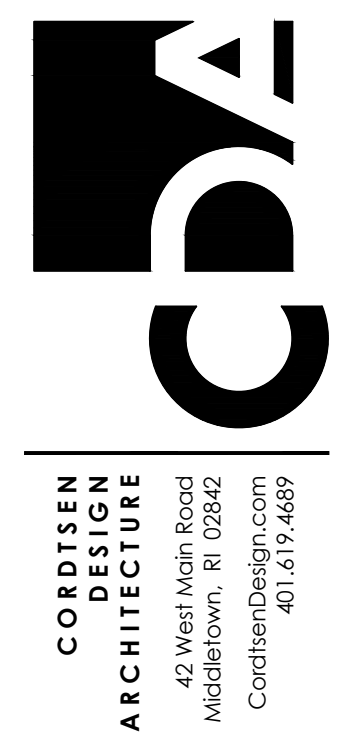
SCHEDULE OF MECHANICAL AND PLUMBING EQUIPMENT																					
TAG	DESCRIPTION	EQUIPMENT CHARACTERISTICS								PANEL / CIRCUIT	CIRCUIT BREAKER	FEEDER AND CONDUIT	TYPE OF CONNECTION REQUIRED								NOTES
		FLA	MCA	MOCP	HP	KW	VOLTS	Ø	CP				VFD	ST	DISCONNECT CONFIGURATION	WP					
MECHANICAL EQUIPMENT																					
EF-1	EXHAUST FAN	-	-	-	-	0.15	120	1	TPX-3	15A/1P	2#12 + 1#12G. IN 3/4".	✓								FAN SHALL RUN CONTINUOUSLY	
EF-2	EXHAUST FAN	-	-	-	-	0.450	120	1	TPX-4	15A/1P	2#12 + 1#12G. IN 3/4".	✓					✓			SEE NOTE 1	
EBB-1	ELECTRIC BASEBOARD	-	-	-	-	0.75	120	1	TP7-2 BUILDING 1	15A/1P	2#12 + 1#12G. IN 3/4".	✓					✓			-	
EBB-2	ELECTRIC BASEBOARD	-	-	-	-	0.75	120	1	TP1-5 BUILDING 1	15A/1P	2#12 + 1#12G. IN 3/4".	✓					✓			-	
EUH-1	ELECTRIC UNIT HEATER	-	-	-	-	1.5	120	1	HP1-14 BUILDING 1	20A/1P	2#12 + 1#12G. IN 3/4".	✓					✓			-	
EUH-2	ELECTRIC UNIT HEATER	-	-	-	-	1.25-2.75	120	1	HP1-15 BUILDING 1	30A/1P	2#10 + 1#10G. IN 3/4".	✓					✓			-	
GUH-1	GAS FIRED UNIT HEATER	-	9.5	-	13	-	120	1	TPX-11	15A/1P	2#12 + 1#12G. IN 3/4".	✓					✓			-	
GDS-1	GAS DETECTION SYSTEM	-	-	-	-	-	120	1	TPX-13	20A/1P	2#12 + 1#12G. IN 3/4".	✓								SEE NOTE 2	
PLUMBING EQUIPMENT																					
EWH-1	ELECTRIC WATER HEATER	-	-	-	-	2	120	1	HP1-16	25A/1P	2#10 + 1#10G. IN 3/4".	✓					✓			-	

NOTES:
1. ELECTRICAL CONTRACTOR SHALL PROVIDE A UNIT PRICE TO WIRE EXHAUST FAN (EF-2) AND ASSOCIATED TOGGLE SWITCH. TOGGLE SWITCH ONLY REQUIRED IF THERE IS NO GAS DETECTION SYSTEM. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. WIRE GAS DETECTOR PER MANUFACTURER'S RECOMMENDATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE A UNIT PRICE TO WIRE A CARBON MONOXIDE GAS DETECTION SYSTEM. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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DATE 11/15/2024

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REVISIONS:

DESCRIPTION: ELECTRICAL SCHEDULES

SCALE: AS NOTED

DATE: NOVEMBER 15, 2024

Coddington Cove Commons
300 Coddington Highway
Middletown, Rhode Island, 02842

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REVISIONS:

DESCRIPTION: FIRE ALARM SYMBOL LIST, RISER DIAGRAM, AND NOTES	SCALE: AS NOTED	DATE: NOVEMBER 15, 2024
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300 Coddington Highway
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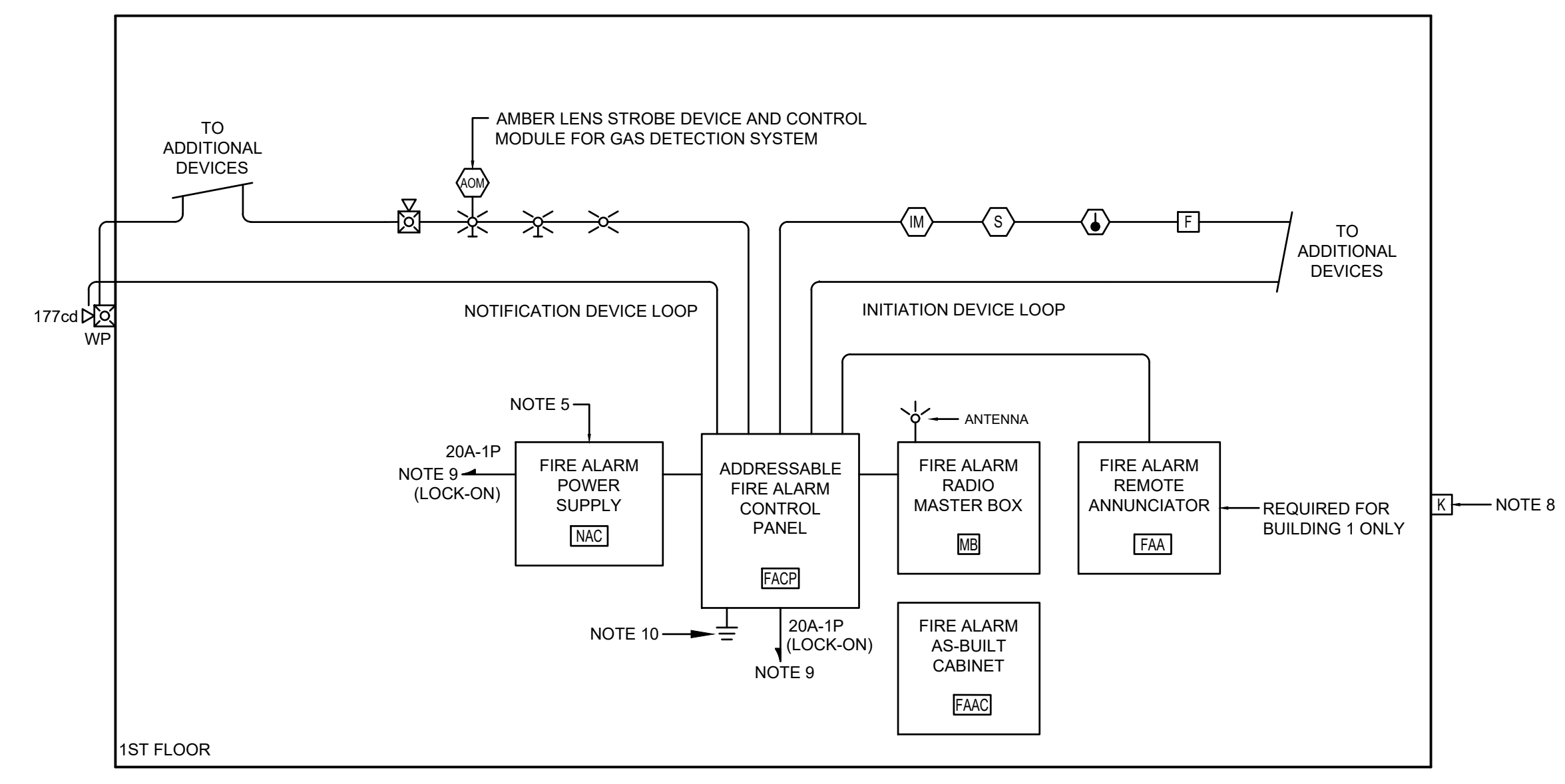
FIRE ALARM GENERAL NOTES

- SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36 INCHES HORIZONTAL PATH FROM THE TIP OF THE BLADE OF A CEILING/ SUSPENDED PADDLE FAN.
- DO NOT INSTALL SMOKE DETECTORS WITHIN UNFINISHED ATTICS OR GARAGES OR IN OTHER PLACES WHERE TEMPERATURES CAN FALL BELOW 40°F OR EXCEED 100°F.
- SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN A 36 INCHES HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS.
- FOR TRAY-SHAPED CEILINGS (COFFERED CEILINGS), SMOKE DETECTORS SHALL BE INSTALLED ON THE HIGHEST PORTION OF THE CEILING OR ON THE SLOPED PORTION OF THE CEILING WITHIN 12 INCHES VERTICALLY DOWN FROM THE HIGHEST POINT.
- SMOKE DETECTORS INSTALLED IN ROOM WITH JOIST OR BEAMS SHALL COMPLY WITH THE REQUIREMENTS OF NFPA AND IBC 2021.
- PROVIDE ALL WIRING PER THE MANUFACTURER'S SPECIFICATIONS.
- THIS FIRE ALARM RISER DIAGRAM IS TYPICAL, WIRE TO ALL DEVICES ON ALL ZONES AND CIRCUITS. REFER TO FLOOR PLANS FOR TYPES AND QUANTITIES OF DEVICES.
- ALL FIRE ALARM WIRING SHALL BE RUN CONTINUOUS FROM DEVICE TO DEVICE.
- OUTGOING AND RETURN CONDUCTORS MUST BE RUN IN SEPARATE RACEWAYS. PROVIDE MINIMUM SEPARATION OF ONE FOOT WHERE THE CABLE IS RUN VERTICALLY AND A FOUR FEET SEPARATION WHERE THE CABLE IS RUN HORIZONTALLY (REFER TO NFPA FOR MORE INFORMATION).
- PROVIDE ANY ADDITIONAL REMOTE FIRE ALARM POWER SUPPLIES, DEVICES, WIRING, ETC. AS REQUIRED TO SERVE NEW FIRE ALARM NOTIFICATION DEVICES SHOWN ON THE DRAWINGS.
- PROVIDE ADDITIONAL SMOKE DETECTORS AS NECESSARY PER NFPA.
- PROVIDE HARDWARE AND PROGRAMMING SUCH THAT DURING ALARM, ALL HVAC UNITS WITH CFM >2000 WILL BE SHUTDOWN.
- PROVIDE INTERMEDIATE RELAYS AS NEEDED.
- SYNCHRONIZE ALL STROBE LIGHTS.
- VERIFY WIRING TYPE FOR INITIATING LOOP.
- WHEN CONNECTING AN ADDRESSABLE MODULE TO MONITOR A CONVENTIONAL SMOKE DETECTOR, A SEPARATE 24 VOLT AUXILIARY POWER SOURCE, ORIGINATING FROM THE FIRE ALARM CONTROL PANEL IS REQUIRED.
- VERIFY ADDITIONAL WIRING WITH SPECIFIED MANUFACTURER (E.G. 24V POWER FOR MODULES).
- NOTIFY OWNER, FIRE DEPARTMENT, AND POLICE DEPARTMENT PRIOR TO EXECUTING ANY WORK ON THE FIRE ALARM SYSTEM.
- PROVIDE ISOLATION MODULES AS REQUIRED IN ACCORDANCE WITH THE STATE FIRE SAFETY CODE AND IBC. PROVIDE A MINIMUM OF ONE ISOLATION MODULE PER FLOOR, AND ONE ISOLATION MODULE FOR EVERY 25 INITIATING DEVICES.
- ALL FIRE ALARM EQUIPMENT INCLUDING AND NOT LIMITED TO FIRE ALARM CONTROL PANELS, CABINETS, ANNUNCIATORS, PULL STATIONS, ETC. SHALL BE LOCKABLE TYPE. PROVIDE KEY ALIKE LOCKABLE EQUIPMENT AS REQUIRED.
- COLOR CODE ALL FIRE ALARM WIRING PER THE REQUIREMENTS OF THE STATE FIRE SAFETY CODE.
- FIRE SEAL ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, ELECTRICAL /TELECOMMUNICATION ROOMS AND CLOSETS.
- FIRE SEAL ALL PENETRATIONS THROUGH FLOORS.
- PROVIDE 25% SPARE CAPACITY ON INITIATION AND NOTIFICATION LOOPS.
- REFER TO FIRE PROTECTION DRAWINGS FOR QUANTITIES AND LOCATIONS OF TAMPER AND FLOW SWITCHES.
- TYPICALLY FIRE ALARM SYSTEM POWER CONDUCTORS SHALL BE #14 AWG, TYPE THHN SOLID. MINIMUM ELECTRICAL CONTRACTOR SHALL SIZE AND PROVIDE FIRE ALARM POWER CONDUCTORS TO ACCOMMODATE FUTURE LOW FREQUENCY HORN/STROBES WITHIN ALL DWELLING UNIT "ROOMS" FOR THE POSSIBILITY THAT ANY ROOM MAY BE CONVERTED TO AN ACCESSIBLE UNIT IN THE FUTURE.
- SMOKE DETECTORS SHALL BE INSTALLED A MINIMUM OF 20' HORIZONTAL DISTANCE FROM A PERMANENTLY INSTALLED COOKING APPLIANCE. SMOKE DETECTORS INSTALLED WITHIN 6-20' FROM A PERMANENTLY INSTALLED COOKING APPLIANCE SHALL BE LISTED FOR RESISTANCE TO COMMON NUISANCE SOURCES FROM COOKING PER NFPA 72.
- SMOKE DETECTORS SHALL BE INSTALLED NOT LESS THAN 3 FEET HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE DETECTOR REQUIRED BY NFPA 72.

FIRE ALARM SYSTEM

FIRE ALARM SYSTEM:
ALL NOTIFICATION DEVICES SHALL BE MOUNTED 80" AFF, UNLESS OTHERWISE NOTED. THE FOLLOWING DESIGNATIONS SHALL APPLY TO ALL FIRE ALARM DEVICES:

- AC = ABOVE CEILING
 - C = CEILING MOUNTED
 - LF = LOW FREQUENCY
 - WG = WIRE GUARD
 - WP = WEATHERPROOF
- [F] MANUAL PULL STATION, MOUNTED 48" AFF
 - [K] ACCESS FEATURE-FIRE DEPARTMENT KEY REPOSITORY.
 - [R] INTERMEDIATE RELAY, PROVIDE AS NEEDED.
 - [A] RADIO MASTER BOX ANTENNA, MOUNT AT HIGHEST POINT ON BUILDING EXTERIOR.
 - [FAA] FIRE ALARM ANNUNCIATOR
 - [FAC] FIRE ALARM COMMUNICATOR
 - [BATT] BATTERY CABINET
 - [FACP] FIRE ALARM CONTROL PANEL
 - [FATC] FIRE ALARM TERMINAL CABINET
 - [FAGM] FIRE ALARM GRAPHIC MAP
 - [FAAC] FIRE ALARM AS-BUILT CABINET
 - [NAC] NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY SIZE PER MANUFACTURERS SYSTEM CALCULATIONS.
 - [S] SMOKE DETECTOR/SENSOR - BASIC SHAPE ORIENTATION NOT TO BE CHANGED.
 - [SS] SMOKE DETECTOR - SINGLE STATION, 120V WITH BATTERY BACKUP.
 - [S] DUCT MOUNTED SMOKE DETECTOR, INSTALLED BY MECHANICAL CONTRACTOR, WIRED AND FURNISHED BY ELECTRICAL CONTRACTOR.
 - [S] SB SOUNDER BASE
 - [H] HEAT DETECTOR/SENSOR - BASIC SHAPE ORIENTATION NOT TO BE CHANGED.
 - [H] R HEAT DETECTOR/SENSOR, RATE-OF-RISE.
 - [H] F HEAT DETECTOR/SENSOR, FIXED TEMPERATURE (135°) F.
 - [H] F HEAT DETECTOR/SENSOR, FIXED TEMPERATURE (190°) F.
 - [H] RF HEAT DETECTOR/SENSOR, COMBINATION RATE-OF-RISE AND FIXED TEMPERATURE (135°) F.
 - [CO] CARBON MONOXIDE DETECTOR
 - [CO] CARBON DIOXIDE DETECTOR
 - [S] CO SMOKE/CARBON MONOXIDE DETECTOR COMBINATION
 - [S] R SMOKE/HEAT DETECTOR/SENSOR COMBINATION
 - [S] CO SMOKE/HEAT DETECTOR/CARBON MONOXIDE DETECTOR
 - [15sd] VISIBLE ONLY (STROBE) - CEILING MOUNT
CD=CANDELA RATING/SETTING
 - [15d] VISIBLE ONLY (STROBE) - WALL MOUNT
CD=CANDELA RATING/SETTING
 - [H] HORN ONLY
 - [M] MINI-HORN
 - [S] SPEAKER ONLY, WALL MOUNT
 - [15sd] COMBINATION HORN/VISIBLE
CD= CANDELA RATING/SETTING
 - [15d] COMBINATION SPEAKER/VISIBLE
CD= CANDELA RATING/SETTING
 - [RI] REMOTE ALARM INDICATOR; CEILING MOUNT
 - [RI] REMOTE ALARM INDICATOR; WALL MOUNT
 - [R] ROTATING BEACON
 - [F] FIRE BELL, FURNISHED AND INSTALLED BY FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR
 - [RTS] REMOTE ALARM INDICATING AND TEST SWITCH; MOUNTED 7'-0" AFF.
 - [AM] ADDRESSABLE OUTPUT CONTROL MODULE
 - [AM] ADDRESSABLE INPUT MONITOR MODULE
 - [AO#] ADDRESSABLE INPUT/OUTPUT MODULE. # DENOTES NUMBER OF INPUTS AND OUTPUTS.
 - [M] ADDRESSABLE OUTPUT CONTROL MODULE
 - [MB] FIRE ALARM MASTER BOX
 - [DH] MAGNETIC DOOR HOLD OPEN DEVICE
 - [MF] FLOW SWITCH (WATER), FURNISHED AND INSTALLED BY FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR.
 - [VS] TAMPER SWITCH, FURNISHED AND INSTALLED BY FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR.
 - [PS] PRESSURE SWITCH, FURNISHED AND INSTALLED BY FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR.
 - [DK] FIRE ALARM DRILL KEY



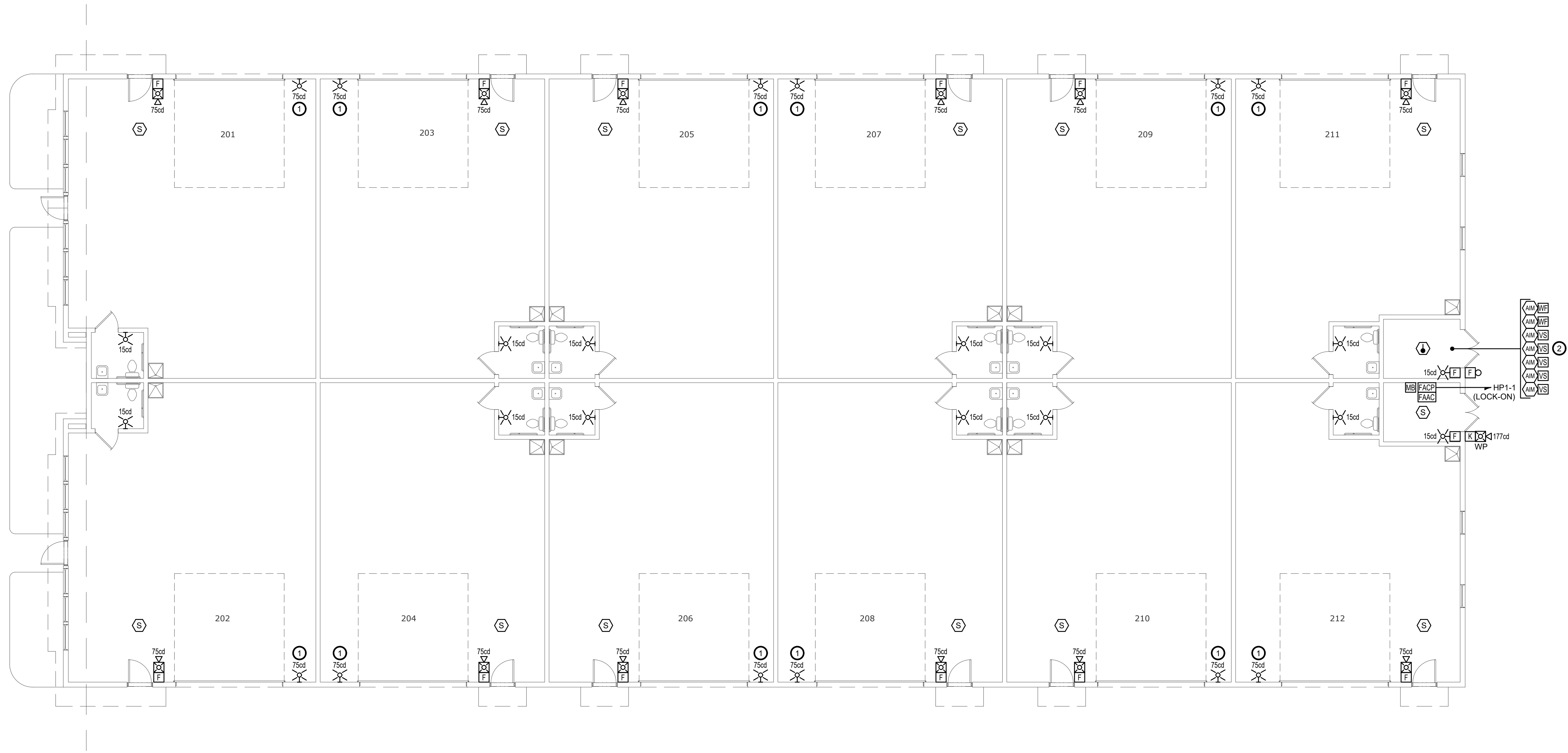
FIRE ALARM RISER NOTES:

- REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL DEVICES.
- THE FIRE ALARM SYSTEM SHALL CONFORM WITH THE REQUIREMENTS OF THE RHODE ISLAND FIRE SAFETY CODE AND THE CITY OF MIDDLETOWN FIRE DEPARTMENT. SHOP DRAWINGS SHALL BE SUBMITTED TO THE FIRE DEPARTMENT FOR APPROVAL.
- PROVIDE A NEW ADDRESSABLE FIRE ALARM SYSTEM AS MANUFACTURED BY EST OR APPROVED EQUAL. THE PANEL SHALL BE E3 SERIES. ALL DEVICES SHALL BE NEW AND MANUFACTURED BY EST OR APPROVED EQUAL. ALL FIRE ALARM WIRING SHALL BE CLASS A PER FCI RECOMMENDATIONS OR APPROVED EQUAL AND SHALL BE INSTALLED IN MINIMUM 3/4" EMT CONDUIT.
- ALL FIRE ALARM WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF NFPA, STATE, AND LOCAL BUILDING CODES AND THE AMERICANS WITH DISABILITIES ACT (ADA).
- PROVIDE REMOTE BOOSTER POWER SUPPLY PANELS AS REQUIRED.
- PROVIDE FAULT ISOLATION MODULES ON THE SIGNAL LINE CIRCUIT TO PROTECT THE SYSTEM FROM LINE TO LINE FAULTS. MODULES SHALL BE PROVIDED AS REQUIRED, WITH A MINIMUM OF (1) MODULE PER EVERY 25 DEVICES.
- RADIO MASTER BOX TO BE IN ACCORDANCE WITH THE CITY OF MIDDLETOWN FIRE DEPARTMENT REQUIREMENTS.
- FIRE ALARM KNOX BOX, COORDINATE EXACT MODEL AND LOCATION WITH LOCAL AHJ.
- PROVIDE DEDICATED 120 VOLT CIRCUIT AND 20A/1P CIRCUIT BREAKER WITH LOCK-ON DEVICE VIA 2#12+1#12G IN 3/4" C. AS REQUIRED.
- GROUND FIRE ALARM EQUIPMENT PER NEC ARTICLE 250 AS REQUIRED.
- ALL STROBES SHALL BE SYNCHRONIZED. EXACT METHOD FOR SYNCHRONIZATION SHALL BE SPECIFIC TO EACH FIRE ALARM MANUFACTURER. PROVIDE EVIDENCE OF SYNCHRONIZATION IN FIRE ALARM SUBMITTAL.
- AUDIBLE FIRE ALARM NOTIFICATION DEVICES SHALL BE A MINIMUM OF 15 DECIBELS ABOVE AVERAGE AMBIENT SOUND LEVELS PER NFPA 72.

1 BUILDING 1: FIRE ALARM RISER DIAGRAM
Scale: NOT TO SCALE

PERMIT SET
DATE: 11/15/2024

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- KEYED SHEET NOTES**
- 1 E.C. SHALL PROVIDE UNIT PRICE FOR CONTROL MODULE AND AMBER LENS STROBE DEVICE FOR GAS DETECTION SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR AND REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - 2 COORDINATE FINAL LOCATION AND QUANTITY OF TAMPER AND FLOW SWITCHES WITH THE FIRE PROTECTION CONTRACTOR PRIOR TO SUBMISSION OF BID PRICE AND START OF WORK.

1 **BUILDING 1: FLOOR PLAN - FIRE ALARM**
Scale: 1/8" = 1'-0"

PERMIT SET
DATE: 11/15/2024

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Coddington Cove Commons
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DESCRIPTION: BUILDING 1: FLOOR PLAN - FIRE ALARM
SCALE: AS NOTED
DATE: NOVEMBER 15, 2024



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2.17 FIRE ALARM SYSTEM

A. DESCRIPTION:

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND PLACE IN OPERATING CONDITION, A COMPLETE FIRE ALARM SYSTEM AS SPECIFIED IN THIS SECTION, TO INCLUDE THE FURNISHING OF ALL LABOR, EQUIPMENT, MATERIALS AND THE PERFORMANCE OF ALL OPERATIONS ASSOCIATED WITH THE INSTALLATION OF THE FIRE ALARM SYSTEM, AS SHOWN ON THE CONTRACT DRAWINGS AND HEREIN SPECIFIED.
2. THE COMPLETE SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE NATIONAL FIRE SAFETY CODE, THE (ADA) AMERICAN DISABILITIES ACT, THE NATIONAL ELECTRICAL CODE, REQUIREMENTS, AND ALL THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT.
3. THE REQUIREMENTS OF THE GENERAL CONDITIONS AND THE SUPPLEMENTARY CONDITIONS OF THE CONTRACT DOCUMENTS SHALL APPLY TO ALL WORK SPECIFIED IN THIS SECTION.
4. THE WORK COVERED UNDER THIS SECTION OF THE CONTRACT SPECIFICATIONS SHALL BE COORDINATED WITH ALL OTHER WORK SPECIFIED IN THE OTHER SECTIONS OF THE CONTRACT SPECIFICATIONS.
5. EQUIPMENT SHALL BE MANUFACTURED BY GAMEWELL-FCI, NOTIFIER, OR EDWARDS (UTC).
6. THE FIRE ALARM SYSTEM DESCRIBED HEREIN AND AS SHOWN ON THE PLANS, SHALL BE WIRED, CONNECTED, TESTED AND LEFT IN FIRST CLASS OPERATING CONDITION. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE PROPER CONTROL EQUIPMENT, CONTROL INTERFACE ANNUNCIATORS, ALARM INITIATING DEVICES, ALARM NOTIFICATION APPLIANCES, WIRING, TERMINATIONS, ELECTRICAL BOXES, AND ALL OTHER NECESSARY MATERIALS FOR A COMPLETE OPERATING SYSTEM.
7. THE FIRE ALARM SYSTEM SHALL BE A MICROPROCESSOR-BASED SYSTEM ALLOWING FOR EDITING OF THE SOFTWARE PROGRAM FOR CHANGES IN SYSTEM OPERATION. THE SYSTEM SHALL BE CAPABLE OF ON-SITE PROGRAMMING TO ACCOMMODATE SYSTEM CHANGES AND/OR SYSTEM EXPANSIONS. ALL SOFTWARE OPERATIONS SHALL BE STORED IN NON-VOLATILE FLASH MEMORY. LOSS OF THE SYSTEM'S PRIMARY AND/OR SECONDARY POWER SOURCES SHALL NOT RESULT IN A LOSS OF THE SYSTEM SOFTWARE PROGRAMS. FIELD PROGRAMMING SHALL NOT BE LOST IN THE EVENT OF MAIN AND/OR BATTERY POWER LOSS.
8. FULL FLEXIBILITY FOR SELECTIVE INPUT-OUTPUT CONTROL FUNCTIONS BASED ON ANDING, ORING, NOTING, TIMING, AND SPECIAL CODED OPERATIONS SHALL ALSO BE INCORPORATED IN THE RESIDENT SOFTWARE PROGRAM OF THE SYSTEM.

B. SYSTEM OPERATION

1. THE SYSTEM OPERATION SUBSEQUENT TO THE ACTIVATION OF ANY MANUAL OR AUTOMATIC ALARM INITIATING DEVICE SHALL BE AS FOLLOWS:
 - A. ALL AUDIBLE VISUAL ALARM INDICATING APPLIANCES SHALL SOUND AND FLASH FROM THE ALARM PANEL AND AT THE REMOTE ANNUNCIATOR UNTIL SILENCED BY THE ALARM SILENCE SWITCH.
 - B. THE ALARM SHALL BE DISPLAYED ON AN 80-CHARACTER LCD DISPLAY. THE TOP LINE OF 40 CHARACTERS SHALL BE THE POINT LABEL, AND THE SECOND LINE SHALL BE THE DEVICE TYPE IDENTIFIER. THE SYSTEM ALARM LED SHALL FLASH ON THE CONTROL PANEL UNTIL THE ALARM HAS BEEN ACKNOWLEDGED. ONCE ACKNOWLEDGED, THIS SAME LED SHALL LATCH ON. A SUBSEQUENT ALARM RECEIVED FROM ANOTHER ZONE SHALL FLASH THE SYSTEM ALARM LED ON THE CONTROL PANEL. THE LCD DISPLAY SHALL SHOW THE NEW ALARM INFORMATION, AT THE CONTROL PANEL.
 - C. TRANSMIT A SIGNAL FROM THE CONTROL PANEL VIA AN RS232 SERIAL PORT, TO PRINT THE SYSTEM STATUS CHANGES ON THE REMOTE SYSTEM PRINTER.
 - D. ACTIVATE THE MUNICIPAL CONNECTION VIA THE RADIO MASTER BOX.
 - E. ACTIVATE CONTROL RELAYS LOCATED WITHIN AN EXTERNAL CONTROL CABINET LOCATED NEXT TO THE FIRE ALARM CONTROL PANEL SPECIFIED. IN ADDITION TO BUILDING EVACUATION THE FOLLOWING AUXILIARY CONTROL AND INTERFACE FUNCTIONS SHALL BE PROVIDED BY THE SPECIFIED SYSTEM.
 1. SELECTIVE AUTOMATIC HVAC FAN SHUTDOWN AND MANUAL (H/OA) OVERRIDE.
 2. RELEASE OF MAGNETIC DOOR HOLDER.
 3. CAPTURE AN ALTERNATE FLOOR RECALL OF SPECIFIED ELEVATORS.
 2. THE SYSTEM SHALL BE PROVIDED WITH STYLE 6 (SLC) ADDRESSABLE DEVICE COMMUNICATION CIRCUITS, STYLE D (IDC) INITIATING DEVICE CIRCUITS AND (STYLE Z) NOTIFICATION APPLIANCE CIRCUITS. ALL SYSTEM FAULTS SHALL BE INDICATED AND DISPLAYED AT THE CONTROL PANEL.
2. THE SYSTEM SHALL BE PROVIDED WITH A STANDBY BATTERY SET OR SETS, WITH SUFFICIENT CAPACITY TO OPERATE THE ENTIRE SYSTEM UPON LOSS OF NORMAL OPERATING POWER, FOR A TIME PERIOD OF (60) HOURS IN SUPERVISORY MODE, WITH (15) MINUTES OF ALARM AT THE END OF THE (60) HOUR TIME PERIOD. THE STANDBY BATTERY SET SHALL BE CHARGED, LOAD TESTED AND MONITORED FOR EITHER A DISCONNECTED OR LOW BATTERY STATUS CONDITION BY THE SYSTEM. ANY FAULT DETECTED WITH THE STANDBY BATTERIES SHALL BE INDICATED AND DISPLAYED AT THE CONTROL PANEL.

D. FIRE ALARM CONTROL PANEL

1. CONTROL PANEL SHALL HAVE SOLID STATE, MICROPROCESSOR BASED ELECTRONICS USING SURFACE MOUNT TECHNOLOGY. THROUGH-PUT TECHNOLOGY WILL NOT BE ALLOWED. IT SHALL DISPLAY ONLY THOSE PRIMARY CONTROLS AND DISPLAYS ESSENTIAL TO OPERATION DURING A FIRE ALARM CONDITION. KEYBOARDS OR KEYPADS SHALL NOT BE REQUIRED TO OPERATE THE SYSTEM DURING THE FIRE ALARM CONDITIONS. THE UNIT SHALL HAVE 9 AMP POWER SUPPLY MINIMUM.
2. A LOCAL AUDIBLE DEVICE SHALL SOUND DURING ALARM, TROUBLE OR SUPERVISORY CONDITIONS. THIS AUDIBLE DEVICE SHALL SOUND DIFFERENTLY DURING EACH CONDITION TO DISTINGUISH ONE CONDITION FROM ANOTHER WITHOUT HAVING A VIEW THE PANEL. THIS AUDIBLE DEVICE SHALL ALSO SOUND DURING EACH KEY PRESS TO PROVIDE AN AUDIBLE FEEDBACK TO ENSURE THAT THE KEY HAS BEEN PRESSED PROPERLY.

3. THE FOLLOWING PRIMARY CRYSTAL DISPLAYS:

- A. INDIVIDUAL RED SYSTEM ALARM LED
 - B. INDIVIDUAL YELLOW SUPERVISORY SERVICE LED
 - C. INDIVIDUAL YELLOW TROUBLE LED
 - D. GREEN "POWER ON" LED
 - E. ALARM ACKNOWLEDGE KEY
 - F. TROUBLE ACKNOWLEDGE KEY
 - G. ALARM SILENCE KEY
 - H. SYSTEM RESET KEY
4. PRIMARY, KEYS, LED'S AND LCD DISPLAY.
5. THE CONTROL PANEL SHALL HAVE A 2-LINE X 40 CHARACTER LIQUID CRYSTAL DISPLAY WHICH SHALL BE BACK LIGHTED FOR ENHANCED READABILITY. SO AS TO CONSERVE BATTERY STANDBY, POWER IT SHALL NOT BE LIT DURING AN AC POWER FAILURE, UNLESS AN ALARM CONDITION OCCURS OR THERE IS KEYPAD ACTIVITY.
6. THE DISPLAY SHALL SUPPORT BOTH UPPER AND LOWER CASE LETTERS. LOWER CASE LETTERS SHALL BE USED FOR SHORT TITLES AND PROMPTING THE USER. UPPER CASE LETTERS SHALL BE USED FOR SYSTEM STATUS INFORMATION. A CURSOR SHALL BE VISIBLE WHEN ENTERING INFORMATION. SYSTEMS USING UPPER CASE LETTERS ONLY WILL NOT OFFER CLEAR DISTINCTION BETWEEN ALARMS AND PROGRAMMING AND ARE NOT ACCEPTABLE.

7. ANY SUPPLEMENTAL NOTIFICATION CONTROL PANELS SHALL BE CAPABLE OF OPERATING ALL CONNECTED NOTIFICATION APPLIANCE DEVICES THROUGHOUT THE BUILDING, AND 25% SPARE CAPACITY FOR VISUAL AND THE HORN CIRCUITS. THEY SHALL HAVE AT A MINIMUM 12 AMPS OF AVAILABLE NAC POWER.

E. ISOLATE MODULES

1. PROVIDE FIELD MOUNTED ISOLATE MODULES FOR EVERY 20 DEVICES TO PROTECT CIRCUIT INTEGRITY IN THE EVENT OF A WIRING FAULT & ENSURE STYLE 6 WIRING CONVENTIONS.

F. RESET SYSTEM

1. THE SYSTEM RESET BUTTON SHALL BE USED TO RETURN THE SYSTEM TO ITS NORMAL STATE AFTER ALARM CONDITION HAS BEEN REMEDIED. THE LCD DISPLAY SHALL STEP THE USER THROUGH THE RESET PROCESS WITH SIMPLE ENGLISH LANGUAGE MESSAGES. MESSAGE "SYSTEM RESET IN PROGRESS" WILL FIRST BE DISPLAYED, FOLLOWED BY THE MESSAGE "SYSTEM RESET COMPLETED," AND FINALLY "SYSTEM IS NORMAL." SHOULD ALL ALARM CONDITIONS BE CLEARED, IN ORDER TO MAINTAIN CONSISTENCY WITH OTHER EXISTING PANELS, NO DEVIATION FROM THESE MESSAGES CAN BE ACCEPTED.
2. SHOULD AN ALARM CONDITION CONTINUE TO EXIST, THE MESSAGE "SYSTEM RESET IN PROGRESS" WILL BE FOLLOWED BY THE MESSAGE "SYSTEM RESET ABORTED," AND THE SYSTEM WILL REMAIN IN AN ABNORMAL STATE. SYSTEM CONTROL RELAYS SHALL NOT RESET. THE SILENCE AND THE ALARM LED WILL BE ON. THE DISPLAY WILL INDICATE THE TOTAL NUMBER OF ALARMS AND TROUBLES PRESENT IN THE SYSTEM, ALONG WITH A PROMPT TO USE THE ACK KEYS TO REVIEW THE POINTS. THESE POINTS WILL NOT REQUIRE ACKNOWLEDGMENT IF THEY WERE PREVIOUSLY ACKNOWLEDGED.

G. H.O.A SWITCHES

1. PROVIDE KEY PAD POSITION SWITCH AS SHOWN ON CONTRACT DRAWINGS.

H. SILENT WALKTEST WITH HISTORY LOGGING

1. THE SYSTEM SHALL BE CAPABLE OF BEING TESTED BY ONE PERSON. WHILE IN THE TESTING MODE, THE ALARM ACTIVATION OF AN INITIATING DEVICE CIRCUIT SHALL BE SILENTLY LOGGED AS AN ALARM CONDITION IN THE HISTORICAL DATA FILE. THE PANEL SHALL AUTOMATICALLY RESET ITSELF AFTER LOGGING OF THE ALARM. THE SYSTEM SHALL SIGNAL THE DEVICE ZONE NUMBER THROUGH THE BUILDING AUDIBLE UNITS, FOR IMMEDIATE VERIFICATION BY THE TEST TECHNICIAN. DUE TO THE CRITICAL NATURE OF THE TEST PROCEDURES, NO DEVIATION FROM THIS SECTION CAN BE ACCEPTED.

I. LED SUPERVISION

1. ALL SLAVE MODULE LEDS SHALL BE SUPERVISED FOR BURNOUT OR DISARRANGEMENT. SHOULD A PROBLEM OCCUR, THE LCD SHALL DISPLAY THE MODULE AND LED LOCATION NUMBERS TO FACILITATE LOCATION OF THE LED. DUE TO THE CRITICAL NATURE OF THE PANEL LCD FUNCTIONS, NO DEVIATION FROM THIS REQUIREMENT CAN BE ACCEPTED.

J. SYSTEM TROUBLE REMINDER

1. SHOULD A TROUBLE CONDITION BE PRESENT WITHIN THE SYSTEM AND THE AUDIBLE TROUBLE SIGNAL SILENCED, THE TROUBLE SIGNAL SHALL RESOUND AT PREPROGRAMMED TIME INTERVALS TO ACT AS REMINDER THAT THE FIRE ALARM SYSTEM IS NOT 100% OPERATIONAL. BOTH THE TIME INTERVAL AND THE TROUBLE REMINDER SIGNALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE BUILDING CODE AND NFPA 72 AS REFERENCED.

K. MULTIPLE ADDRESSABLE PERIPHERAL NETWORK

1. PROVIDE ADDRESSABLE CIRCUITS FOR COMMUNICATION WITH ADDRESSABLE DEVICES. SYSTEM SHALL HAVE AN INDEPENDENT ISOLATED ADDRESSABLE LOOPS, UP TO 318 ADDRESSABLE DEVICES.
2. THE SYSTEM MUST PROVIDE COMMUNICATION WITH INITIATING AND CONTROL DEVICES INDIVIDUALLY. ALL OF THESE DEVICES WILL BE INDIVIDUALLY ANNUNCIATED AT THE CONTROL PANEL.
3. ANNUNCIATION SHALL INCLUDE THE FOLLOWING CONDITIONS FOR EACH POINT.
 - A. ALARM
 - B. TROUBLE
 - C. OPEN
 - D. SHORT
 - E. DEVICE MISSING/FAILED
4. ALL ADDRESSABLE DEVICES SHALL HAVE THE CAPABILITY OF BEING DISABLED OR ENABLED INDIVIDUALLY.
5. UP TO 318 ADDRESSABLE DEVICES ON A CLASS A CIRCUIT. SYSTEMS THAT REQUIRE FACTORY RE-PROGRAMMING TO ADD OR DELETE SERVICES ARE UNACCEPTABLE.
6. IDENTIFICATION OF ADDRESSABLE DEVICES.

L. PHOTOELECTRIC DETECTOR HEAD

1. PROVIDE PHOTOELECTRIC TYPE DETECTORS. WHERE INDICATED OR REQUIRED. THEY SHALL BE A PLUG-IN UNIT WHICH MOUNTS TO A TWISTLOCK BASE, AND SHALL BE UL APPROVED.
2. THE DETECTORS SHALL BE OF THE SOLID STATE PHOTOELECTRIC TYPE AND SHALL CONTAIN NO RADIOACTIVE MATERIAL. THEY WILL USE A REFRACTED INFRARED LED LIGHT SOURCE AND BE SEALED AGAINST REAR AIR FLOW ENTRY.

3. THE DETECTOR SHALL FIT INTO A BASE THAT IS COMMON WITH BOTH THE HEAT DETECTOR AND IONIZATION TYPE DETECTOR AND SHALL BE COMPATIBLE WITH OTHER ADDRESSABLE DETECTORS, ADDRESSABLE MANUAL STATIONS, AND ADDRESSABLE ZONE ADAPTER MODULES ON THE SAME CIRCUIT. DEVICE ADDRESSES SHALL BE CONTAINED IN THE BASE OF THE DETECTOR. THOSE SYSTEMS WHICH PROVIDE ADDRESSING IN THE HEAD, SHALL PROVIDE AN ADDRESSABLE MONITOR MODULE AND A CONVENTIONAL DETECTOR ASSEMBLY TO ALLOW THE OWNER TO REPLACE A DETECTOR HEAD WITHOUT THE NEED OF VERIFYING DETECTOR ADDRESS.
4. THERE SHALL BE NO LIMIT TO THE NUMBER OF DETECTORS OR ZONE ADAPTER MODULES WHICH MAY BE ACTIVATED OR "IN ALARM" SIMULTANEOUSLY.
5. DUE TO THE REQUIREMENT FOR IMMEDIATE CHANGE OUT OF DETECTOR HEADS ADDRESS SETTING SWITCHES, JUMPERS ETC., MAY BE PROVIDED IN THE HEAD OR BEHIND THE DETECTOR BASE. DETECTORS WHICH USE DIP SWITCHES ARE NOT ACCEPTABLE.
6. PROVIDE A DUCT HOUSING WITH SENSOR, WITH RELAY. THE RELAY SHALL BE SOFTWARE PROGRAMMABLE TO ALLOW THE UNIT IN WHICH THE DETECTOR IS MOUNTED IN TO BE SHUT DOWN, OR ANY OTHER DEVICE TO BE CONTROLLED BY THIS PROGRAMMABLE RELAY. THE RELAY MAY BE A SEPARATE UNIT FROM THE DUCT HOUSING TO ALLOW FOR TROUBLESHOOTING AND DISCONNECTS.
7. PROVIDE SAMPLING TUBE AS REQUIRED FOR UNIT SIZE.
8. PROVIDE A REMOTE TEST UNIT FOR EACH DUCT SMOKE DETECTOR WITH LED ALARM INDICATOR AND TEST KEY SWITCH.

M. LCD ANNUNCIATOR

1. PROVIDE A VGA COLOR TOUCH SCREEN LCD ANNUNCIATOR AND STATIC GRAPHIC PLOT PLAN AS SHOWN ON THE CONTRACT DRAWINGS. SUBMIT A LAYOUT OF THIS UNIT TO THE ENGINEER FOR APPROVAL.
2. PROVIDE CITY CONNECTIONS TO THE LOCAL FIRE DEPARTMENT.

N. ADDRESSABLE THERMAL DETECTOR HEAD

1. PROVIDE THERMAL DETECTOR HEADS WHERE INDICATED OR REQUIRED.
2. THERMAL DETECTOR HEADS MUST BE UL LISTED, SHALL BE A COMBINATION RATE-OF-USE AND FIXED TEMPERATURE (135 F) TYPE, AUTOMATICALLY RESTORABLE.
3. PROVIDE REMOTE LED ALARM INDICATORS, AS INDICATED ON PLANS.

O. ADDRESSABLE PULL STATIONS

1. PROVIDE ADDRESSABLE PULL STATIONS WHICH CONTAIN ELECTRONICS THAT COMMUNICATE THE STATION'S STATUS (ALARM, NORMAL) TO THE CONTROL PANEL OVER ONE TWISTED PAIR. THE ADDRESS WILL SET ON THE STATION. THEY WILL BE MANUFACTURED FROM HIGH IMPACT RED LEXAN. STATION WILL MECHANICALLY LATCH UPON OPERATION AND REMAIN SO UNTIL MANUALLY RESET BY OPENING WITH A KEY COMMON TO ALL SYSTEM LOCKS. PULL STATIONS WILL BE DOUBLE ACTION AND AS IDENTIFIED BY A SCHEDULE ON THE PRINTS.
2. THE FRONT OF THE STATION IS TO BE HINGED TO A BACKPLATE ASSEMBLY AND MUST BE OPENED WITH A KEY TO RESET THE STATION. THE KEY SHALL BE COMMON WITH THE CONTROL PANELS. STATIONS WHICH USE ALLEN WRENCHES OR SPECIAL TOOLS TO RESET WILL NOT BE ACCEPTED. THE STATION SHALL CONSIST OF HIGH IMPACT LEXAN PLASTIC, RED IN COLOR.
3. THE ADDRESSABLE MANUAL STATION SHALL BE CAPABLE OF FIELD PROGRAMMING OF ITS "ADDRESSABLE" LOCATION ON AN ADDRESSABLE INITIATING CIRCUIT.
4. THERE SHALL BE NO LIMIT TO THE NUMBER OF STATIONS, DETECTORS OR ZONE ADAPTER MODULES, WHICH MAY BE ACTIVATED OR "IN ALARM" SIMULTANEOUSLY.
5. THE ADDRESSABLE MANUAL STATION SHALL BE UNDERWRITERS LABORATORIES INC. LISTED.
6. PROVIDE PROTECTIVE COVERS, EQUAL TO STOPPEE II, WHERE REQUIRED BY THE AHJ.

P. ZONE ADAPTER MODULES

1. ZONE ADAPTER MODULES SHALL BE USED FOR MONITORING OF WATERFLOW, VALVE TAMPER, HALON CONTROL PANELS, NON-ADDRESSABLE DETECTORS, AND FOR CONTROL OF EVACUATION INDICATING APPLIANCES AND AHU SYSTEMS.
2. AN ADDRESSABLE INTERFACE MODULE SHALL BE PROVIDED FOR INTERFACING NORMALLY OPEN DIRECT CONTACT DEVICES TO AN ADDRESSABLE INITIATING CIRCUIT.
3. ADDRESSABLE MODULES WILL BE CAPABLE OF MOUNTING IN A STANDARD ELECTRIC OUTLET BOX. ZAMS WILL INCLUDE COVER PLATES TO ALLOW SURFACE OR FLUSH MOUNTING. ZAMS WILL RECEIVE THEIR 24 VDC POWER FROM A SEPARATE TWO WIRE PAIR RUNNING FROM AN APPROPRIATE POWER.
4. THERE SHALL BE TWO TYPES OF DEVICES: TYPE 1: MONITOR MODULE TYPE 2: CONTROL MODULE
5. ADDRESSABLE DEVICE SUPERVISION.
 - A. ALL DEVICES SHALL BE SUPERVISED FOR TROUBLE CONDITION. THE SYSTEM CONTROL PANEL WILL BE CAPABLE OF DISPLAYING THE TYPE OF TROUBLE CONDITION (OPEN, SHORT, DEVICE MISSING/FAILED). SHOULD A DEVICE FAIL, IT WILL NOT HINDER THE OPERATION OF OTHER DEVICES.
 - B. SPRINKLER FLOW, AND TAMPER SWITCHES ARE TO BE SUPPLIED AND INSTALLED BY THE SPRINKLER CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR AS REQUIRED BY THE LOCAL FIRE DEPARTMENT. EACH DEVICE SHALL BE AN ADDRESS ON THE FIRE ALARM PANEL, SO THAT THEY MAY BE PROGRAMMED AS EITHER ALARMS OR TROUBLES. PROGRAM ALL AS ALARMS ON THIS PROJECT.

Q. AUDIBLE/VISUAL UNIT (XENON STROBE)

1. PROVIDE MULTI-CANDELA HORN/STROBE UNITS COMPRISED OF A HORN AND XENON FLASH TUBE ENTIRELY SOLID STATE. THE UNIT TO CONFORM TO ITS REQUIREMENTS.
2. VISUAL FLASHING LAMPS (XENON STROBE)
3. VISUAL INDICATING APPLIANCES SHALL BE COMPRISED OF A XENON FLASH TUBE AND BE ENTIRELY SOLID STATE. THIS UNIT SHALL MOUNT TO A SINGLE GANG BOX AND PLATE FOR SURFACE MOUNT. MINIMUM OF 75 CD LIGHT OUTPUT TO CONFORM TO A.D.A. ALL STROBES SHALL BE SYNCHRONIZED.

R. MINI-HORNS

1. PROVIDE RED, MINI HORN WHERE INDICATED ON CONTRACT DRAWINGS. THE UNIT SHALL MOUNT TO A SINGLE, DEEP GANG BOX.
- S. STROBE LIGHT
1. PROVIDE A MULTI-CANDELA STROBE APPLIANCE.
- T. MAGNETIC DOOR HOLDERS
1. PROVIDE SEMI-FLUSH WALL MOUNTED, 120 V.A.C AND 24 V.D.C. WITH LONG CATCH PLATE.

U. BATTERIES AND BATTERY CABINET

1. PROVIDE MAINTENANCE - FREE BATTERIES.

V. RELAY MODULE

1. PROVIDE ADDRESSABLE RELAY TO PROVIDE SUPERVISED CONTROL OF AUXILIARY CIRCUITS (AHU'S, DOOR HOLDERS, ETC) VIA SLC ADDRESSABLE LOOP. RELAY SHALL PROVIDE SUPERVISED OUTLET FOR 3AMPS @ 30VDC OR 0.5AMPS AT 120VAC, WHERE CURRENT EXCEEDS LIMITATIONS PROVIDE ISOLATION RELAY RATED FOR REQUIRED LOAD.

W. INSTALLATION FIRE ALARM WIRING

1. ALL FIRE ALARM WIRING SHALL CONFORM TO THE APPLICABLE STATE AND LOCAL FIRE SAFETY CODES.
2. WIRING SHOWN ON DRAWINGS IS FOR ESTIMATING PURPOSES ONLY. THE FINAL WIRING REQUIREMENTS SHALL BE PER THE EQUIPMENT MANUFACTURERS WIRING DIAGRAMS AND NO INCREASE IN CONTRACT PRICE WILL BE ALLOWED FOR ANY ADDITIONAL WIRES THAT MAY BE SHOWN ON THE MANUFACTURER'S DRAWINGS.
3. DETAILED ONE-LINE SCHEMATIC WIRING DIAGRAMS OF EACH SPECIFIED DEVICE BETWEEN ALL SYSTEMS. THESE CONNECTION DRAWINGS ARE TO INDICATE ROUTING OF CONDUCTORS VIA THE FLOOR TERMINAL BOXES.

X. SHUTDOWNS OF ANY EXISTING SYSTEMS

1. THIS CONTRACTOR SHALL COORDINATE ALL REQUIRED SHUTDOWNS OF THE EXISTING FIRE ALARM SYSTEM DURING THE DURATION OF THIS CONTRACT. ALL SYSTEM SHALL BE COORDINATED WITH THE OWNER AND THE FIRE DEPARTMENT. THE FIRE ALARM SYSTEMS SHALL BE RETURNED TO A NORMAL MODE OF OPERATION BY THE END OF EACH WORKDAY. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED FOR A FIRE WATCH IF THE SYSTEM IS NOT OPERATIONAL AT THE END OF A WORKDAY.

Y. PROGRAMMING OF SYSTEM

1. THIS CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN APPROVED ZONE AND DEVICE CUSTOM LABELS, THAT WILL BE PROGRAMMED INTO THE SYSTEM FOR ZONE AND DEVICE IDENTIFICATION PURPOSES. THE SUBJECT CUSTOM LABELS SHALL BE APPROVED BY OWNERS REPRESENTATIVE AND THE FIRE DEPT. BEFORE THEY ARE PROGRAMMED INTO THE SYSTEM.

Z. TRAINING

1. THE ELECTRICAL CONTRACTOR AND SYSTEM MANUFACTURER SHALL PROVIDE A MINIMUM OF ONE (1) ON-SITE TRAINING SESSIONS FOR THE OWNER'S REPRESENTATIVES. EACH SESSION SHALL BE A MINIMUM OF 1 HOUR.
2. DUE TO THE CRITICAL NATURE OF PROPER SYSTEM OPERATION, TRAINING MUST BE CONDUCTED BY PERSONNEL IN THE DIRECT EMPLOY OF THE MANUFACTURER OF THE FIRE ALARM CONTROL PANEL. A THIRD PARTY INSTRUCTOR IS NOT ACCEPTABLE.

AA. WARRANTY

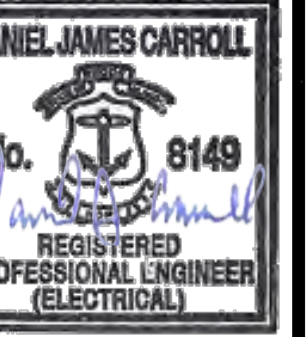
1. THE CONTRACTOR SHALL WARRANT THE COMPLETE FIRE ALARM SYSTEM WIRING AND EQUIPMENT TO BE FREE FROM INHERENT MECHANICAL AND ELECTRICAL DEFECTS FOR A PERIOD OF (3) THREE YEARS FROM THE DATE OF THE COMPLETED AND CERTIFIED TEST OR FROM THE DATE OF FIRST BENEFICIAL USE.
2. THE EQUIPMENT MANUFACTURE SHALL MAKE AVAILABLE TO THE OWNER A MAINTENANCE CONTRACT PROPOSAL TO PROVIDE A MINIMUM OF TWO (2) INSPECTIONS AND TEST PER YEAR IN COMPLIANCE WITH NFPA-72H GUIDELINES.

BB. SUBMITTALS

1. PROVIDE COMPLETE SETS OF DOCUMENTATION TO INCLUDE THE FOLLOWING:
 - A. A COMPLETE POINT TO POINT RISER DIAGRAM OF THE FIRE ALARM SYSTEM SHOWING ALL DEVICES AND EQUIPMENT AND SIZE, TYPE AND NUMBERS OF ALL CONDUCTORS.
 - B. BATTERY STANDBY AND POWER SUPPLY CALCULATIONS SHOWING TOTAL POWER REQUIRED TO MEET THE SPECIFIED SYSTEM REQUIREMENTS INCLUDING SPARE CAPACITY ALLOWANCES. CALCULATIONS SHALL INCLUDE A COMPLETE LIST OF CURRENT REQUIREMENTS DURING NORMAL OPERATIONS, TROUBLE AND ALARM CONDITIONS. CALCULATIONS SHALL ALSO DEMONSTRATE PROPER CONSIDERATION OF CURRENT REQUIREMENTS, WIRE SIZE, WIRE LENGTH AND VOLTAGE DROP CHARACTERISTICS.
 - C. MANUFACTURER'S ORIGINAL CATALOG DATA SHEETS SHALL BE SUPPLIED FOR ALL OF THE EQUIPMENT TO BE SUPPLIED. ALL EQUIPMENT SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER AND NO EQUIPMENT SHALL BE ORDERED WITHOUT PRIOR APPROVAL.
 - D. LARGE SCALE DRAWINGS OF THE MAIN CONTROL PANEL AND EACH REMOTE PANEL DEPicting OVERALL MECHANICAL DIMENSIONS, LAYOUT INCLUDING FUTURE ALLOWANCES, AND FIELD WIRING IN FULL DETAIL.
 - E. DOCUMENTATION OF THE SUPPLIER'S QUALIFICATIONS INDICATING YEARS IN BUSINESS SERVICE POLICIES, WARRANTY DEFINITIONS, AND A LIST OF SIMILAR INSTALLATIONS IN THE LOCAL MUNICIPALITY.
 - F. PROVIDE A COMPLETE DETAILED DESCRIPTION OF THE SYSTEM OPERATION.
 - G. ADDRESSES FOR ALL FIELD DEVICES SHALL BE SHOWN ON FLOOR PLANS SUPPLIED WITH THIS SUBMITTAL.

CC. DOCUMENTATION

1. AT THE COMPLETION OF THE PROJECT A COMPLETE SET OF OPERATING/MAINTENANCE MANUALS, THE FIRE ALARM SUBMITTAL BOOK, POINT-TO-POINT WIRING DIAGRAMS, A TERMINAL STRIP CABINET CONNECTION POINT DIAGRAM FOR EACH TERMINAL CABINET, A COMPLETE POINT ADDRESS LISTING BY DEVICE, AND A FINAL TEST REPORT SHALL BE GIVEN TO THE OWNER.



REVISIONS:

DESCRIPTION: FIRE ALARM SPECIFICATIONS

SCALE: AS NOTED

DATE: NOVEMBER 15, 2024

Coddington Cove Commons
300 Coddington Highway
Middletown, Rhode Island, 02842

FA2.0



NO. OF COPIES: 10. THIS DRAWING IS NOT TO BE USED FOR ANY OTHER PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

PLUMBING GENERAL NOTES

- GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
- DRAWINGS ARE DIAGRAMMATIC; DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. DO NOT SCALE DRAWINGS.
- NEITHER ACCURACY NOR COMPLETION OF UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
- ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE PRESIDING PLUMBING CODE AND ALL APPLICABLE LOCAL CODES.
- IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC, PROCESS PIPING, FIRE PROTECTION, STRUCTURAL AND GENERAL ARCHITECTURE.
- ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR, AND/OR THE OWNER'S REPRESENTATIVE, AND RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
- ALL PIPING PENETRATING CEILINGS AND WALLS SHALL BE INSTALLED WITH CHROME (STAINLESS WHERE NOTED) PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHERTIGHT. PIPING PENETRATING RATED PARTITIONS SHALL BE PROTECTED WITH UL LISTED SEALS OF EQUAL RATING AND AS REQUIRED BY LOCAL CODE AUTHORITY.
- MANUFACTURERS' MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
- ALL PRODUCT INSTALLATION SHALL ADHERE TO THE MANUFACTURERS' RECOMMENDATIONS.
- PROVIDE ACCESS PANELS FOR ALL EQUIPMENT THAT REQUIRES PERIODIC SERVICE AND FOR ALL VALVES.
- CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN HEREIN.
- ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC., INSTALLED IN HVAC FLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
- PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.
- ALL SLEEVES THROUGH CONCRETE FLOORS AND ALL CORE DRILLING OF CONCRETE FLOORS AND WALLS SHALL BE BY THIS CONTRACTOR. CONCRETE PADS AND PLATFORMS FOR WORK OF THIS SECTION WILL BE PROVIDED BY GENERAL CONTRACTOR. PROVIDE INFORMATION AS NECESSARY TO COORDINATE WORK.
- RUN PIPING CONCEALED WHERE POSSIBLE, UNLESS SPECIFIED OTHERWISE.
- STRUCTURAL WELDING SHALL BE 1/4-INCH FILLET UNLESS REQUIRED OTHERWISE.
- PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
- PROVIDE BALANCING VALVES AT SYSTEM LOOP RETURNS AND AT RETURN RISERS, PROVIDE SHUTOFF VALVES AT SYSTEM LOOP SUPPLIES AND SUPPLY RISERS.
- PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
- PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP INLETS AND OUTLETS.
- VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS AND FOOD SERVICE DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
- PIPE SUPPORTS FOR PLUMBING IN BUILDING SHAFTS ARE BY THIS CONTRACTOR. CAREFULLY COORDINATE WITH PLACEMENT OF STEEL GRATE SUPPORT BEAMS. SHAFT PIPE SUPPORT SHALL BEAR FROM WALL AND FROM FLOOR SUPPORT BEAMS.
- GENERAL FLOOR CONTROL VALVES OF PIPED SERVICES SHALL BE IN THE PIPE SHAFTS UNLESS OTHERWISE INDICATED.
- OBTAIN GAS PERMITS AND DEFRAY ALL COSTS INCIDENTAL TO THE GAS PIPING SYSTEM. CONTRACTORS WORK SHALL COMMENCE ON THE HOUSE SIDE OF THE UTILITY COMPANY METER.
- A SUITABLE DRIP OF CONDENSATE POCKET SHALL BE INSTALLED AT THE BOTTOM OF ALL GAS RISERS.
- ALL GAS PIPING TO COMPLY WITH LOCAL AND STATE CODES.
- GAS PIPING AND SAFETY DEVICES SHALL CONFORM TO REQUIREMENTS OF NFPA 54 AND SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE AUTHORITY HAVING JURISDICTION.
- PROVIDE A SUITABLE GAS COOK VALVE AT EACH BRANCH RUNOUT FROM THE MAIN SERVING GAS OUTLETS AND INDIVIDUAL GAS FIXTURES.
- GAS PIPING SHALL BE TESTED ACCORDING TO THE STATE FUEL GAS CODE AND NATIONAL CODE PROVISIONS OF THE LOCAL PLUMBING INSPECTOR. IF INSPECTION OF THE TEST SHOWS DEFECTS, SUCH DEFECTIVE WORK AND MATERIAL SHALL BE REPLACED AND INSPECTION AND TEST SHALL BE REDONE.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR EXTENDING ALL REGULATOR VENTS TO ATMOSPHERE. PROVIDE PART OF EQUIPMENT GAS TRAIN. PIPE ALL GAS TRAN VENTS FROM HVAC BOILERS TO ATMOSPHERE.
- NO PIPING SHALL RUN OVER ELECTRICAL PANELS.
- ALL PIPING THAT PENETRATES FLOORS OR FIRE RATED WALLS SHALL BE FIRE STOPPED W/ HILTI CAULKING PER MANUFACTURERS RECOMMENDATIONS.
- ELECTRICAL SUB CONTRACTOR IS RESPONSIBLE FOR PROVIDING POWER TO ALL EQUIPMENT AND CONTROLS WITHIN THE PLUMBING SYSTEMS FOR THIS PROJECT.
- PC TO ORGANIZE/LOCATE CUT OUTS FOR PIPING/CONDUITS RUNNING PERPENDICULAR TO THE FLOOR JOISTS W/ GC. COORDINATE AND VERIFY IN FIELD.
- COORDINATE ALL CEILING AND WALL MOUNTED FIXTURES AND EQUIPMENT WITH ARCHITECTURAL DRAWING. LOCATE FIXTURES AND EQUIPMENT AS INDICATED ON ARCHITECTURAL DRAWINGS WHERE ACCEPTABLE BY CODE.
- ALL SLEEVES THROUGH CONCRETE FLOORS AND FIRE RATED WALLS OR PARTITIONS SHALL BE FIRE STOPPED WITH UL RATED ASSEMBLIES OF EQUAL FIRE RATING.

PLUMBING LEGEND

	CW	COLD WATER
	CW	COLD WATER BELOW FLOOR OR BURIED
	HW	HOT WATER
	S / W	SOIL OR WASTE
	S / W	SOIL OR WASTE BELOW FLOOR OR BURIED
	V	VENT
	V	VENT BELOW FLOOR OR BURIED
	G	NATURAL OR PROPANE GAS
		CONTINUATION
	UP / RISER	PIPE RISER
	DR / DN	PIPE DROP OR DOWN
	TEE	PIPE TEE
		BALL VALVE
		GATE VALVE
		SOLENOID VALVE
	WV	VALVE IN VERTICAL
	CV	CHECK VALVE
		GAS SHUT-OFF VALVE
	W & T	WASTE & TRAP
	CO, WCO	CLEANOUT PLUG OR WALL CLEANOUT
		STRAINER
	FCO	FLOOR CLEANOUT
	DCO	DANDY CLEANOUT
		CAPPED PIPE
		ARROW INDICATES DIRECTION OF FLOW
		ARROW INDICATES DIRECTION OF SLOPE
		UNION
	WTS	WATERTIGHT SLEEVE
	HB	HOSE BIBB
	WH	WALL HYDRANT
	FD	FLOOR DRAIN
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	WM	WATER METER
	GM	GAS METER
	T	THERMOMETER
	PG	PRESSURE GAUGE WITH PETCOCK
	T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
		VACUUM RELIEF VALVE
	VTR	VENT THRU ROOF
	VIF	VERIFY EXACT LOCATION, SIZE & LOCATION IN FIELD
	I.E.	INVERT ELEVATION
	TYP	TYPICAL
	NTS	NOT TO SCALE
	AFF	ABOVE FINISHED FLOOR
	FFE	FINISHED FLOOR ELEVATION
	LPC	LIMIT OF PLUMBING CONTRACT
	GC	GENERAL CONTRACTOR
	FPC	FIRE PROTECTION CONTRACTOR
	PC	PLUMBING CONTRACTOR
	EC	ELECTRICAL CONTRACTOR
	HVAC	HVAC CONTRACTOR
	S=.01	SLOPE = 1/8" PER FOOT
	S=.02	SLOPE = 1/4" PER FOOT

DRAIN SCHEDULE

SYMBOL	TYPE	MANUFACTURER	MODEL	OUTLET	STRAINER	REMARKS
FD-1	FLOOR DRAIN	WATTS	FD-100-B-5-60	4"	8" NICKEL BRONZE	PVC BODY, NO-HUB, ADJUSTABLE STRAINER, VANDAL RESISTANT, SEDIMENT BUCKET.

NOTES:
 1. ALL FLOOR DRAINS SHALL HAVE TRAP SEAL GASKETS EQUAL TO "SURE SEAL".
 2. INSTALLATIONS SHALL BE IN COMPLETE ACCORDANCE WITH STATE & LOCAL CODES.

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER	MODEL #	CAPACITY	MAX. ACCEPT. FACTOR	CW SUPPLY	REMARKS
ET-1	AMTROL	ST-5	2.0 GALLONS	0.45	3/4"	THERM-X-TROL, IN-LINE, ASME, MAX. OPERATING TEMPERATURE - 200F, MAX. WORKING PRESSURE - 150 PSIG, 55 PSIG-PRECHARGE, CHARGE TO CITY WATER PRESSURE. CONFIRM TANK SIZE WITH INCOMING STREET PRESSURE. PRIOR TO INSTALLATION.

NOTES:
 1. INSTALL PER ALL RI CODE AND MANUFACTURER'S INSTALLATION REQUIREMENTS.

ELECTRIC WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL #	CAPACITY	RECOVERY		WATER SUPPLY		ELECTRICAL			REMARKS		
				GPH	Δ T	CW	HW	AMPS	KW	VOLTS PHASE		HZ	
EWH-1	STATE	PCE 10 10MSA-2	10 GALLONS	8	100°	1/2"	1/2"	-	2	120	1	60	ELECTRIC TANK TYPE WATER HEATER, WALL MOUNTED ON SHELF. PROVIDE & INSTALL COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE DRAIN PAN. PIPE DRAIN LINE TO SERVICE SINK.

NOTES:
 1. INSTALL PER ALL RI CODE AND MANUFACTURER'S INSTALLATION REQUIREMENTS.

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	FIXTURE			FIXTURE			SERVICES				REMARKS		
		MANUFACTURER	MODEL	TYPE	SIZE	MANUFACTURER	MODEL	TYPE	S/W	V	CW		HW	TW
P-1	WATER CLOSET	AMERICAN STANDARD	215AA.104	FLOOR MOUNT	1.28 GPF	-	-	MANUAL	4"	2"	1/2"	-	-	VITREOUS CHINA, ELONGATED, LOW CONSUMPTION MANUAL FLUSH TANK. PROVIDE OPEN FRONT SEAT AMERICAN STANDARD #5321.110 OR EQUAL. PROVIDE HEAVY DUTY CHROME PLATED SUPPLY & STOP. BARRIER FREE, ADA COMPLIANT AS REQUIRED.
P-2	LAVATORY	AMERICAN STANDARD	0356.041	WALL HUNG	20 1/2"x18 1/2"	AMERICAN STANDARD	6053.105	SENSOR	1-1/2"	1-1/2"	1/2"	1/2"	-	VITREOUS CHINA, SINGLE CENTER FAUCET HOLE, 0.5 GPM MANUAL FAUCET, PROVIDE DRAIN. PROVIDE OFFSET P-TRAP & TRUEBRO LAVAGUARD INSULATION ON EXPOSED PIPING. PROVIDE & INSTALL AMERICAN STANDARD #605XTM1070 MIXING VALVE. PROVIDE WALL CARRIER. BARRIER FREE, ADA COMPLIANT AS REQUIRED.
P-3	SERVICE SINK	FIAT	FL-1	FLOOR MOUNTED	23"x21 1/2"x33 1/2"	CHICAGO	540-LD897SGCCP	MANUAL	3"	2"	1/2"	1/2"	-	FLOOR MOUNTED, MOLDED STONE, WALL MOUNTED, CHROME PLATED, LEVER FAUCET, VACUUM BREAKER. PROVIDE SPLASH GUARDS AT ALL WALL INTERSECTIONS, MOP & HOSE BRACKETS.
P-4	SINK - BREAK	ELKAY	LRAD252165	DROP-IN	25"x21 1/2"x16 1/2"	GROHE	3134900E	MANUAL	2"	2"	1/2"	1/2"	-	STAINLESS STEEL DROP-IN, 1-BOWL: 21"x15 1/2"x6 1/2" DEEP. 1.5 GPM, POLISHED CHROME GOOSENECK FAUCET W/ PULL DOWN SPRAY. PROVIDE GRID STRAINER. PROVIDE CHROME PLATED HEAVY DUTY P-TRAP W/ CLEANOUT, FUNNEL FOR INDIRECT WASTE & DISHWASHER CONNECTIONS AS REQUIRED. SUPPLIES & STOPS. PROVIDE TRUEBRO LAVAGUARD INSULATION ON EXPOSED PIPING. BARRIER FREE, ADA COMPLIANT.
HB-1	HOSE BIBB	JR SMITH	5670-H-CP	WALL MOUNTED	3/2"x2 3/4"	-	-	-	-	-	1/2"	-	-	BRASS BODY, VACUUM BREAKER AND REMOVABLE WHEEL HANDLE.

NOTES:
 1. PROVIDE AND INSTALL ALL HANDICAPPED ACCESSIBLE FIXTURES PER ALL STATE & LOCAL CODES AND ADA REQUIREMENTS.
 2. INSTALL ALL FIXTURES & EQUIPMENT PER MANUFACTURER'S INSTALLATION REQUIREMENTS.



DAVID J. KNIGHT
 No. 12602
 REGISTERED PROFESSIONAL ENGINEER MECHANICAL

REVISIONS:

DESCRIPTION: PLUMBING LEGEND, NOTES, AND SCHEDULES
 SCALE: AS NOTED
 DATE: NOVEMBER 15, 2024

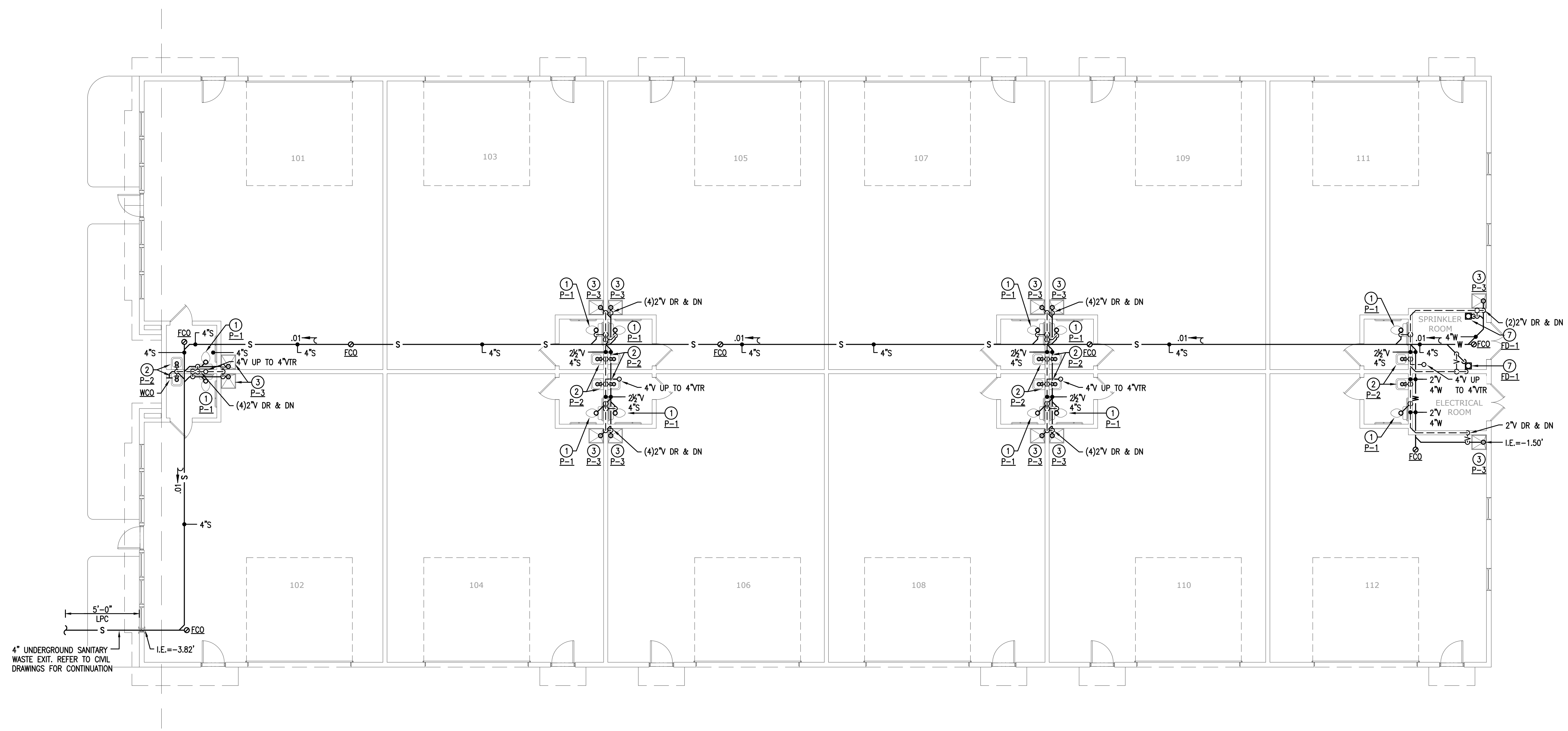
Coddington Cove Commons
 300 Coddington Highway
 Middletown, Rhode Island, 02842

P.O.I

PERMIT SET
 DATE 11/15/2024

BER BUILDING ENGINEERING RESOURCES, INC.
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PLUMBING KEY NOTES	
① NEW FLOOR MOUNTED WATERCLOSET W/ FLUSH TANK: 1/2" CW DR, 4" S DN & 2" V DR	⑤ NEW WALL MOUNTED HOSE BIBB: 1/2" CW DR
② NEW WALL HUNG LAVATORY & FAUCET: 1/2" CW DR, 1/2" HW DR, 1 1/2" W DN, 1 1/2" V DR	⑥ NEW 10 GALLON ELECTRIC WATER HEATER: 1/2" CW DR, 1/2" HW DR
③ NEW FLOOR MOUNTED UTILITY SINK & FAUCET: 1/2" CW DR, 1/2" HW DR, 3" W DN, 1 1/2" V DR	⑦ NEW 4" FLOOR DRAIN: 4" W DN, 2" V DN
④ NEW COUNTER MOUNTED SINK & FAUCET: 1/2" CW DR, 1/2" HW DR, 2" W DN, 1 1/2" V DR	
NOTE: CONNECT ALL DOMESTIC WATER, SANITARY WASTE & VENT SUPPLY PIPING FROM NEW FIXTURES & EQUIPMENT TO RESPECTIVE MAIN LINES. COORDINATE EXACT LOCATIONS IN FIELD PRIOR TO INSTALLATION. TRENCH PIPING AS REQUIRED.	



① BUILDING 1: FLOOR PLAN - SANITARY, WASTE & VENT
Scale: 1/8" = 1'-0"



DAVID J. KNIGHT
No. 12602
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL

REVISIONS:

DESCRIPTION: BUILDING 1:
FLOOR PLAN - SANITARY,
WASTE & VENT
SCALE: AS NOTED
DATE: NOVEMBER 15, 2024

Coddington Cove
Commons
300 Coddington Highway
Middletown, Rhode Island, 02842

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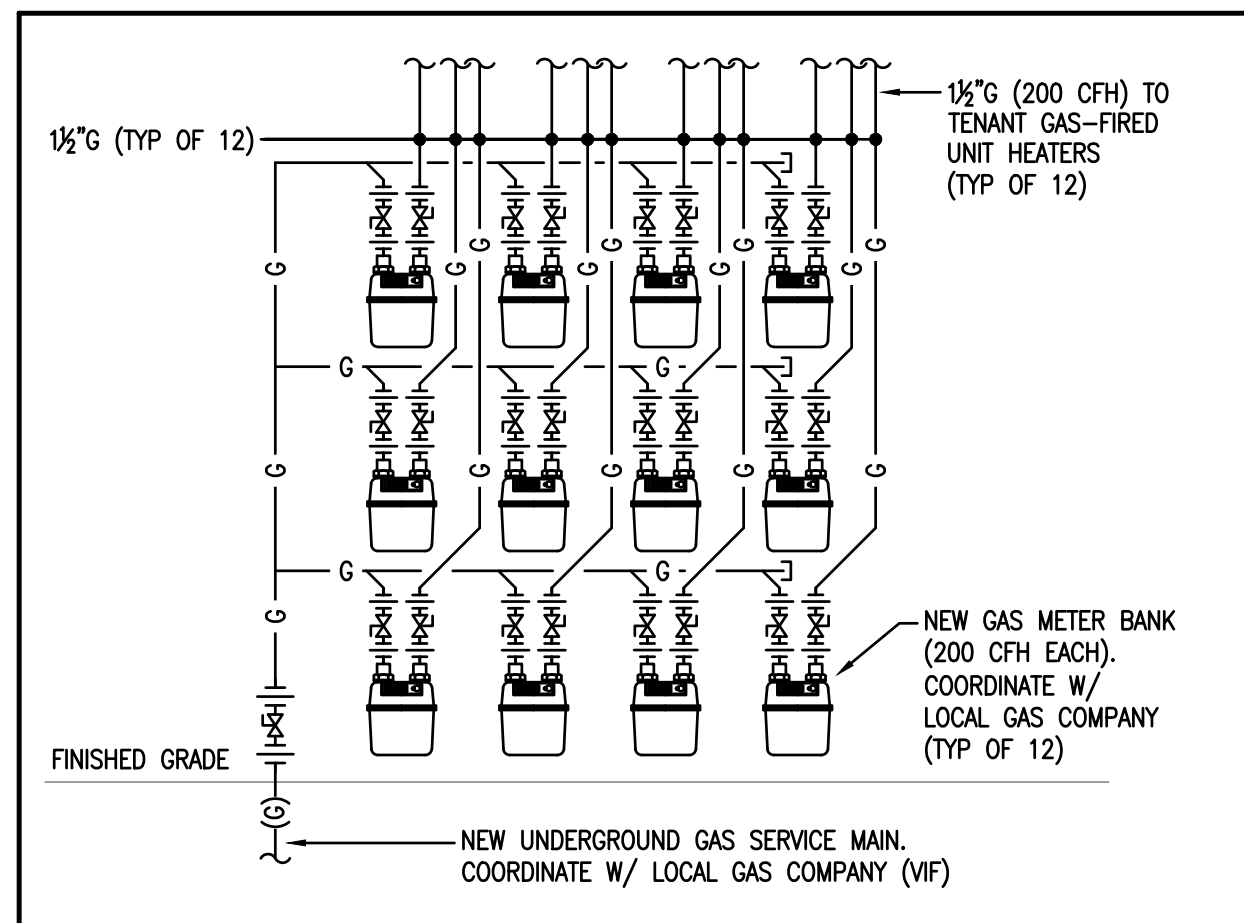
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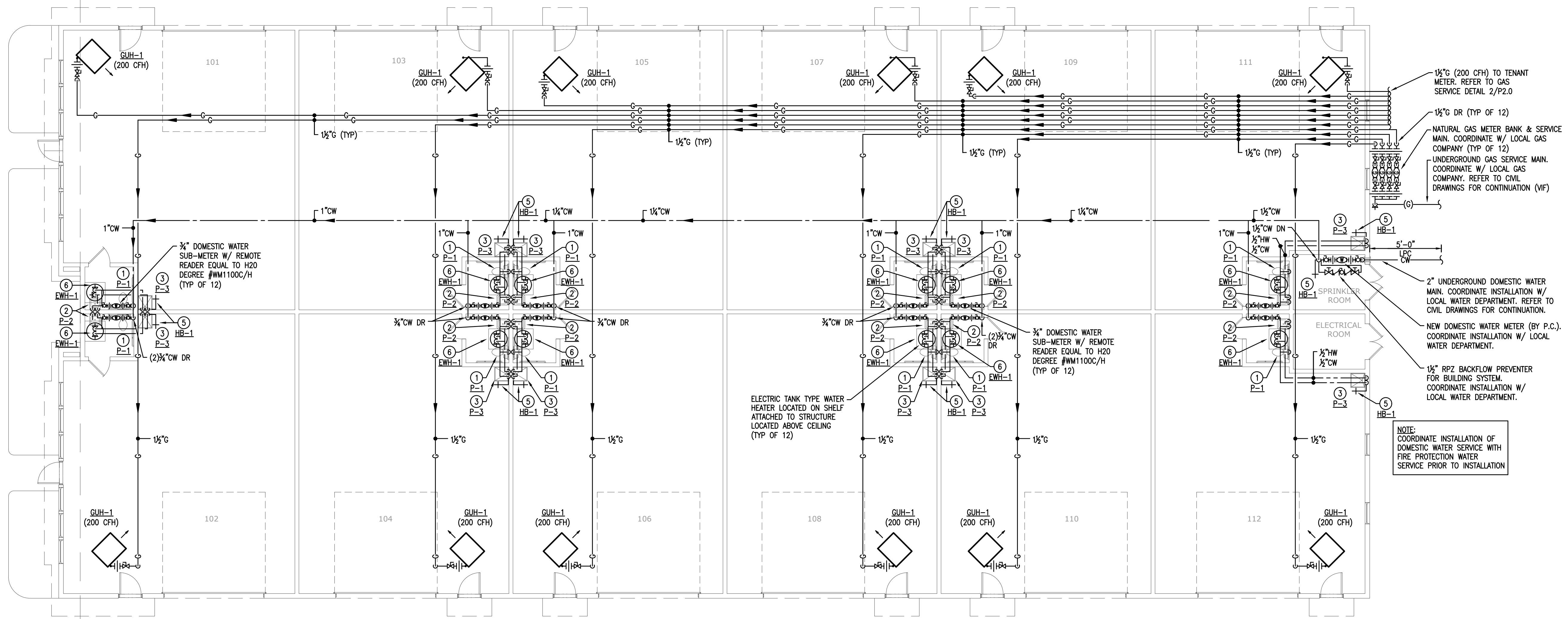
PLUMBING KEY NOTES

- | | |
|--|--|
| ① NEW FLOOR MOUNTED WATERCLOSET W/ FLUSH TANK:
1/2" CW DR, 4" S DN & 2" V DR | ⑤ NEW WALL MOUNTED HOSE BIBB:
1/2" CW DR |
| ② NEW WALL HUNG LAVATORY & FAUCET:
1/2" CW DR, 1/2" HW DR, 1/2" W DN, 1/2" V DR | ⑥ NEW 10 GALLON ELECTRIC WATER HEATER:
1/2" CW DR, 1/2" HW DR |
| ③ NEW FLOOR MOUNTED UTILITY SINK & FAUCET:
1/2" CW DR, 1/2" HW DR, 3" W DN, 1/2" V DR | ⑦ NEW 4" FLOOR DRAIN:
4" W DN, 2" V DN |
| ④ NEW COUNTER MOUNTED SINK & FAUCET:
1/2" CW DR, 1/2" HW DR, 2" W DN, 1/2" V DR | |

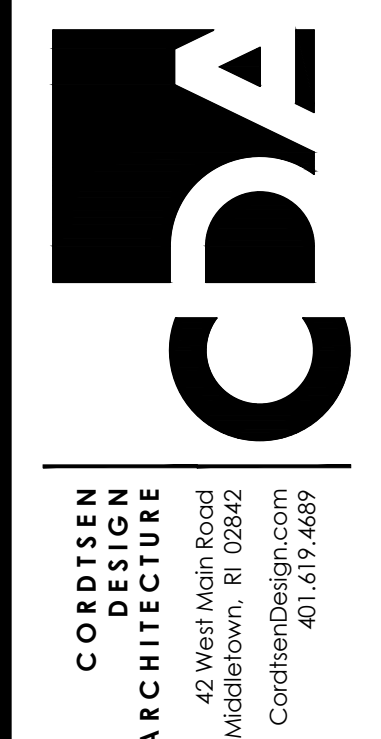
NOTE:
CONNECT ALL DOMESTIC WATER, SANITARY WASTE & VENT SUPPLY PIPING FROM NEW FIXTURES & EQUIPMENT TO RESPECTIVE MAIN LINES. COORDINATE EXACT LOCATIONS IN FIELD PRIOR TO INSTALLATION. TRENCH PIPING AS REQUIRED.



2 GAS METER INSTALLATION DIAGRAM
NTS



1 BUILDING 1: FLOOR PLAN - DOMESTIC WATER & GAS
Scale: 1/8" = 1'-0"



DAVID J. KNIGHT
No. 12602
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL

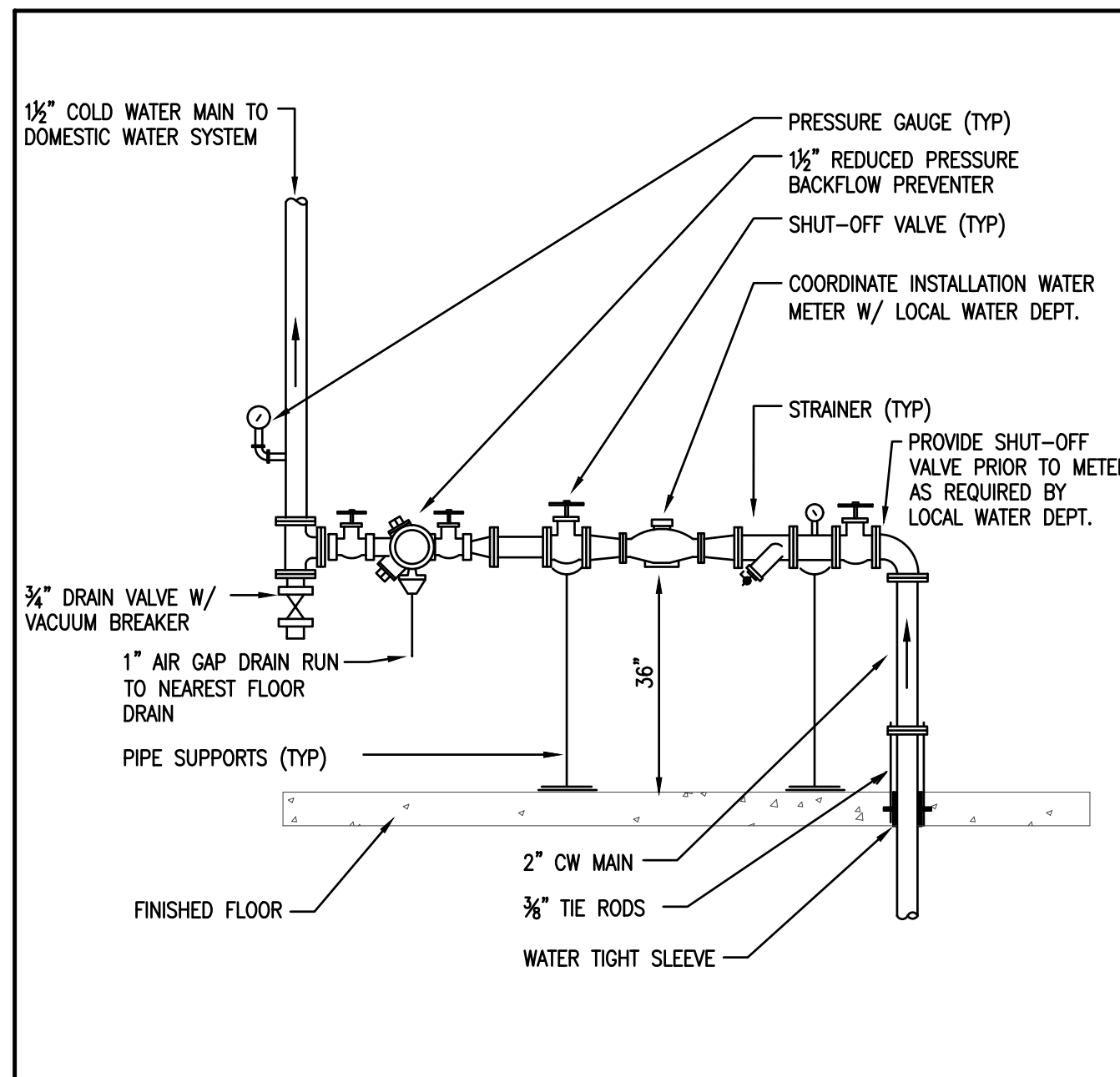
REVISIONS:
DESCRIPTION: BUILDING 1: FLOOR PLAN - DOMESTIC WATER & GAS
SCALE: AS NOTED
DATE: NOVEMBER 15, 2024

Coddington Cove Commons
300 Coddington Highway
Middletown, Rhode Island, 02842

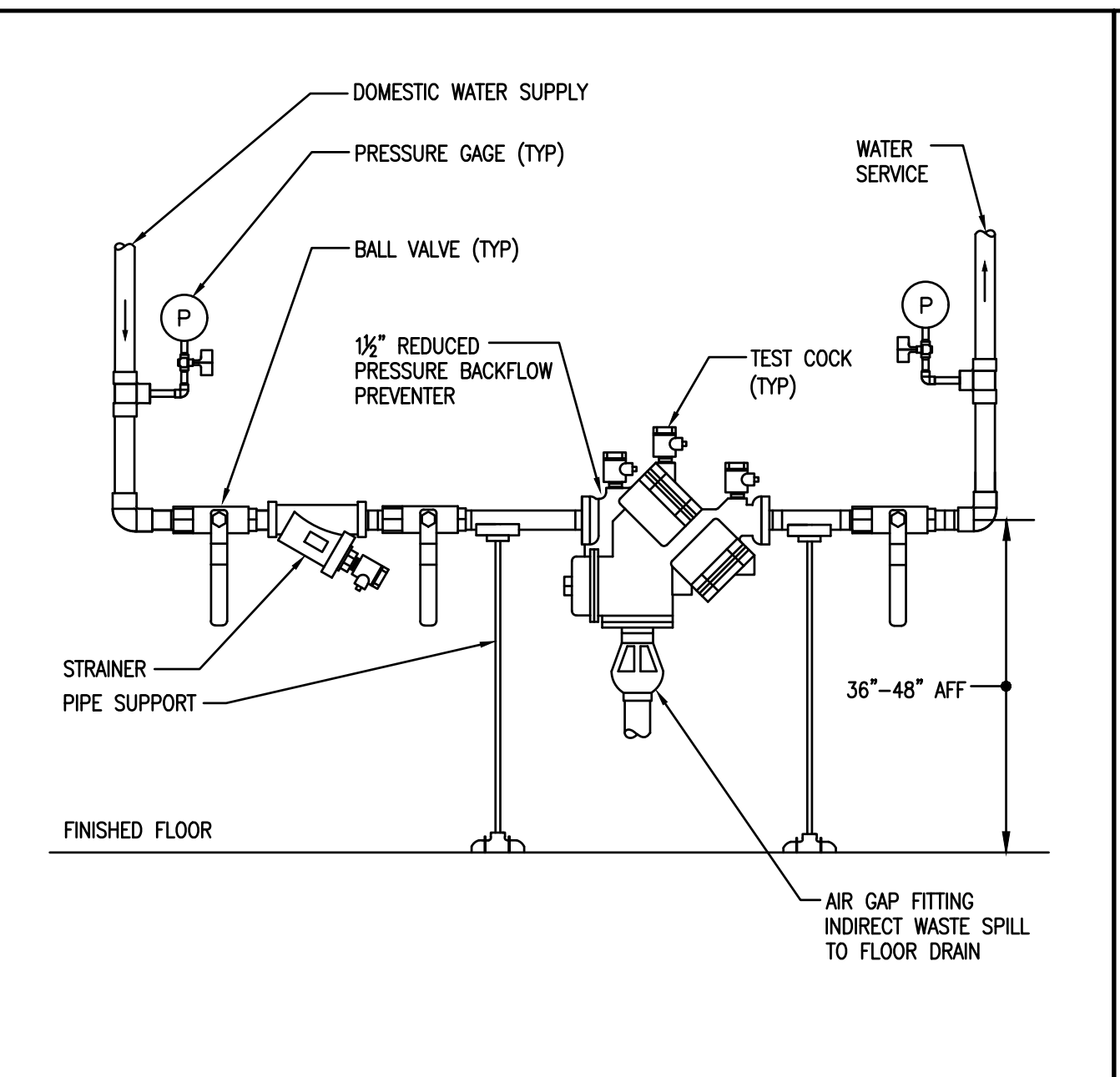
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DATE: 11/15/2024

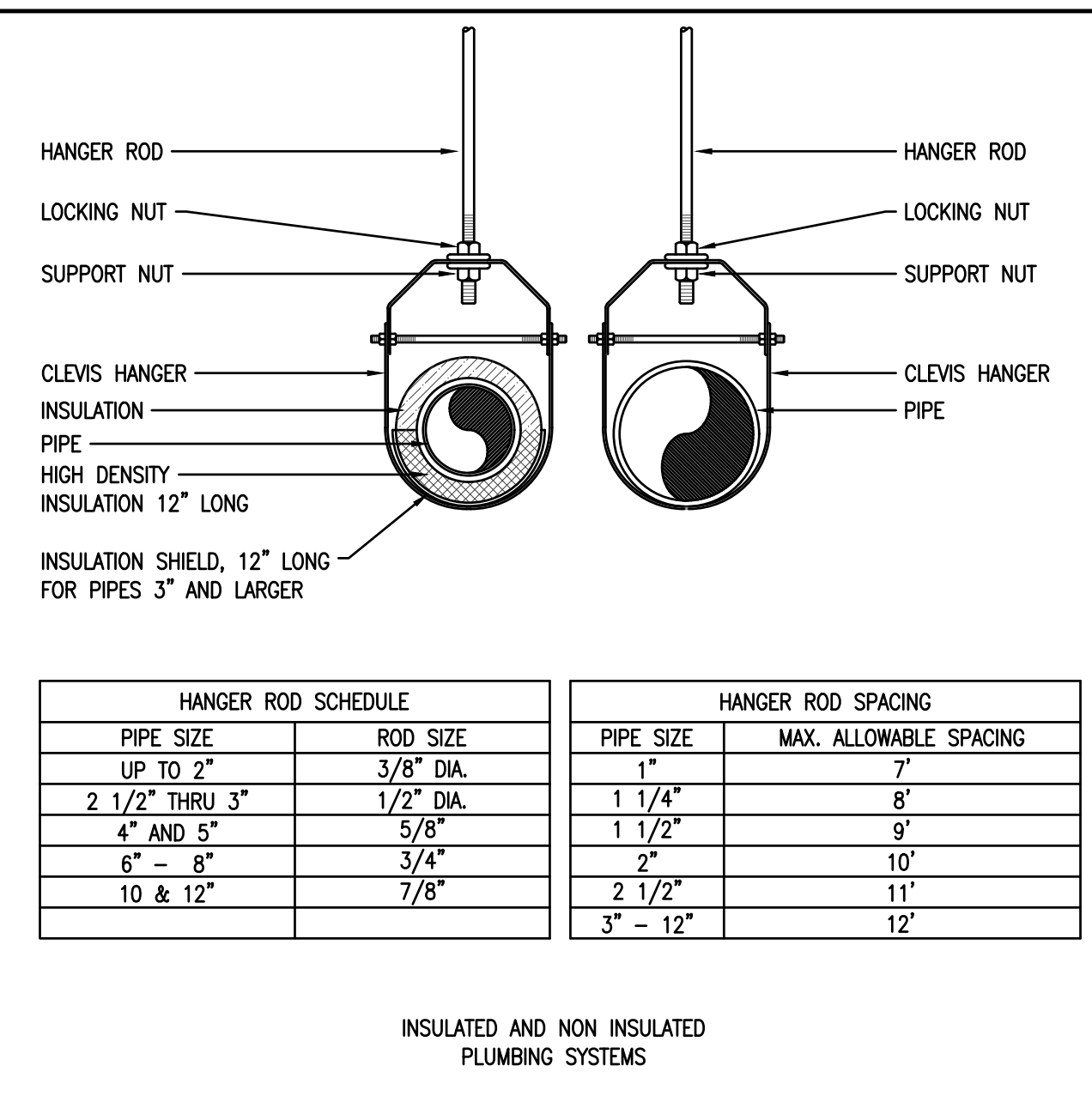
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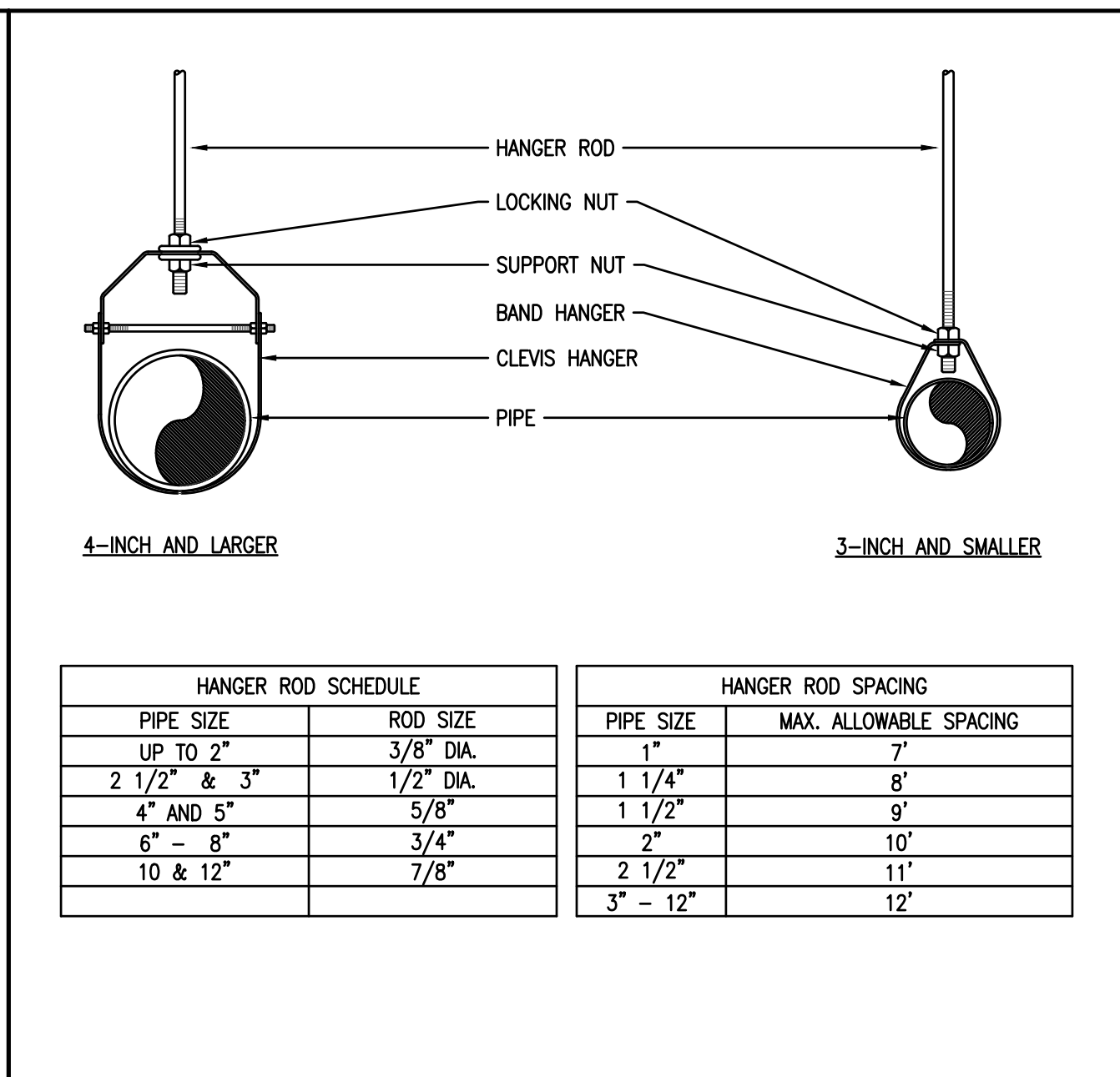
1 DOMESTIC WATER SERVICE NTS



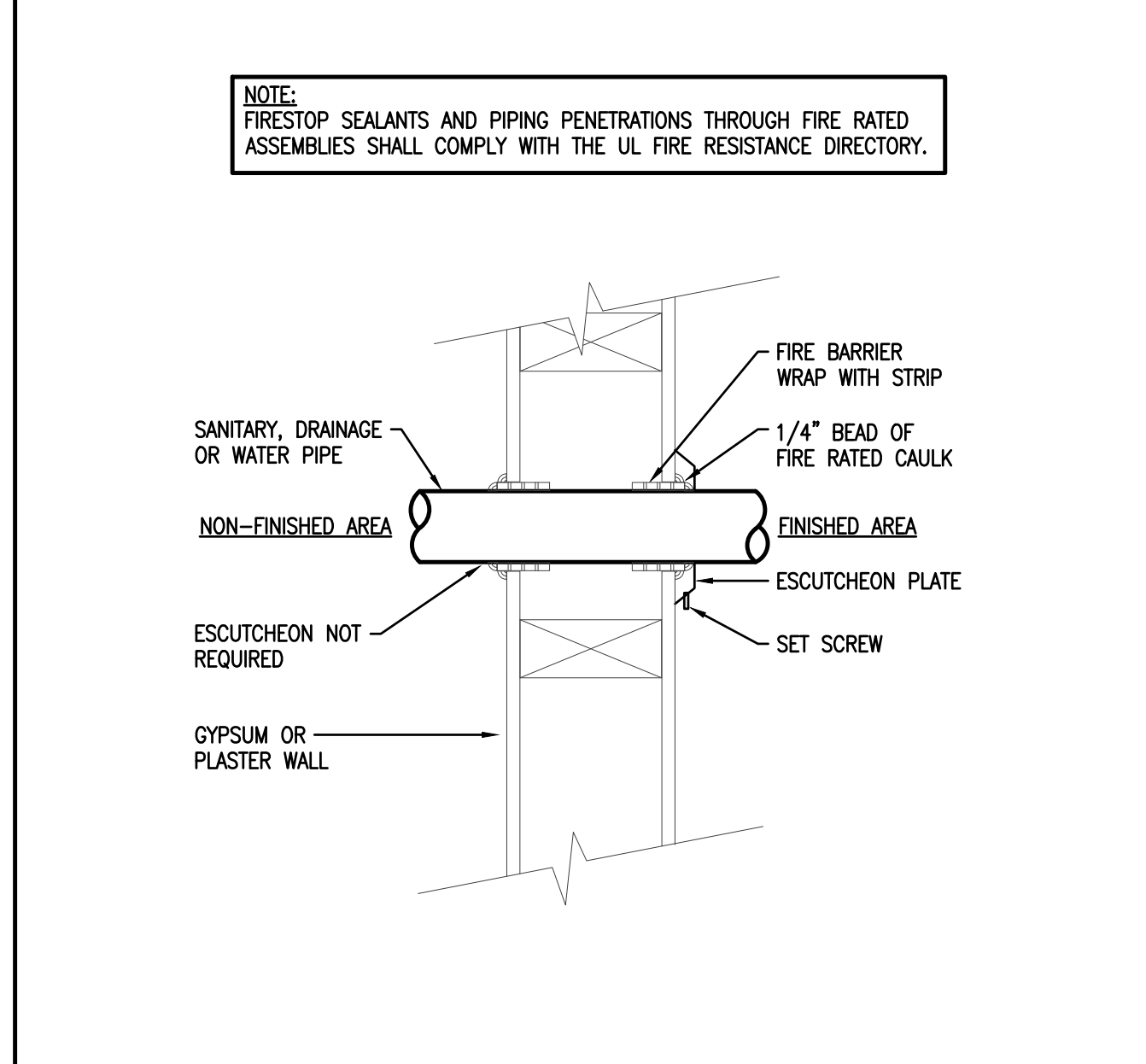
2 REDUCED PRESSURE BACKFLOW PREVENTER NTS



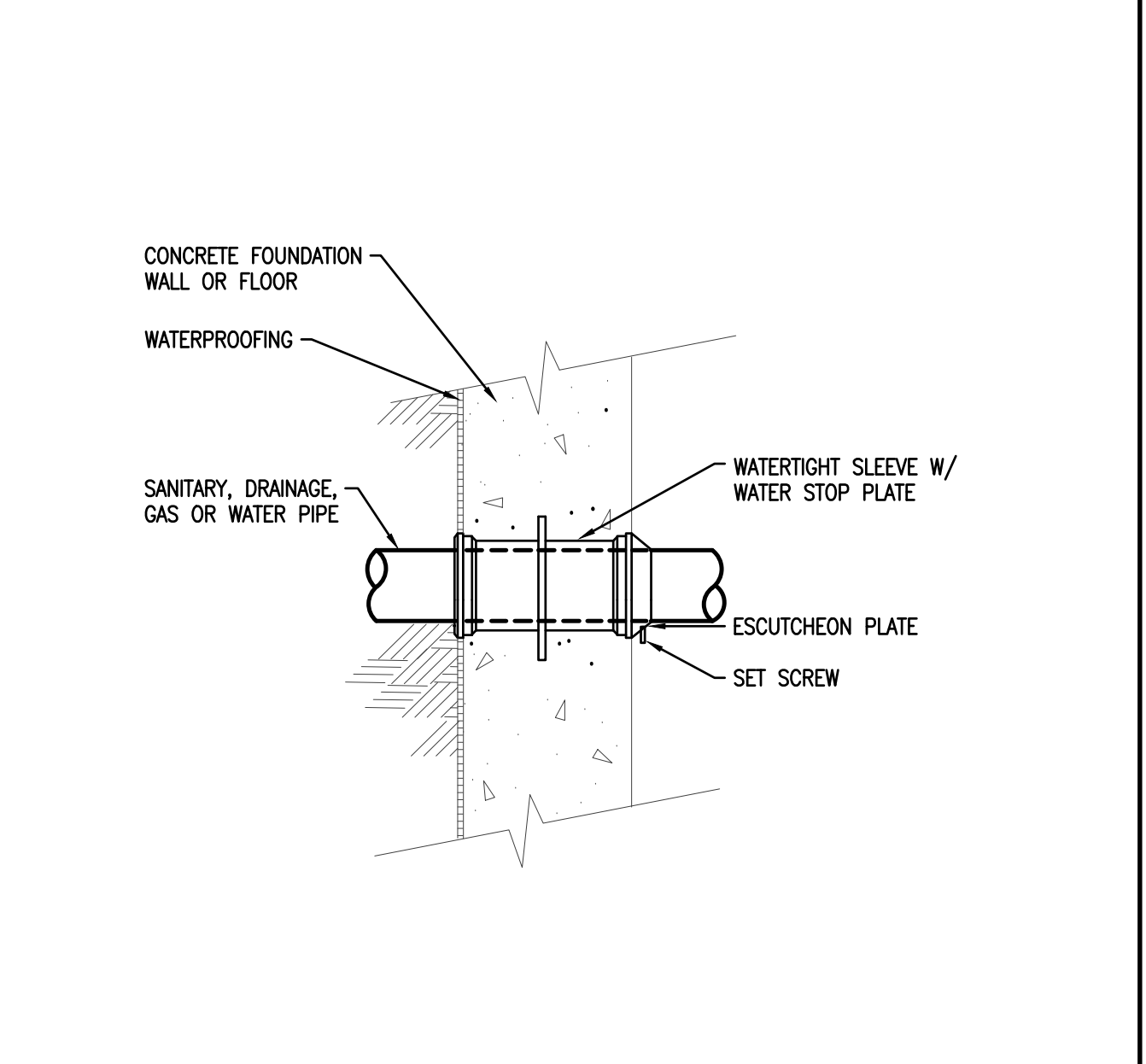
3 CLEVIS PIPE HANGER/ROD INSTALLATION NTS



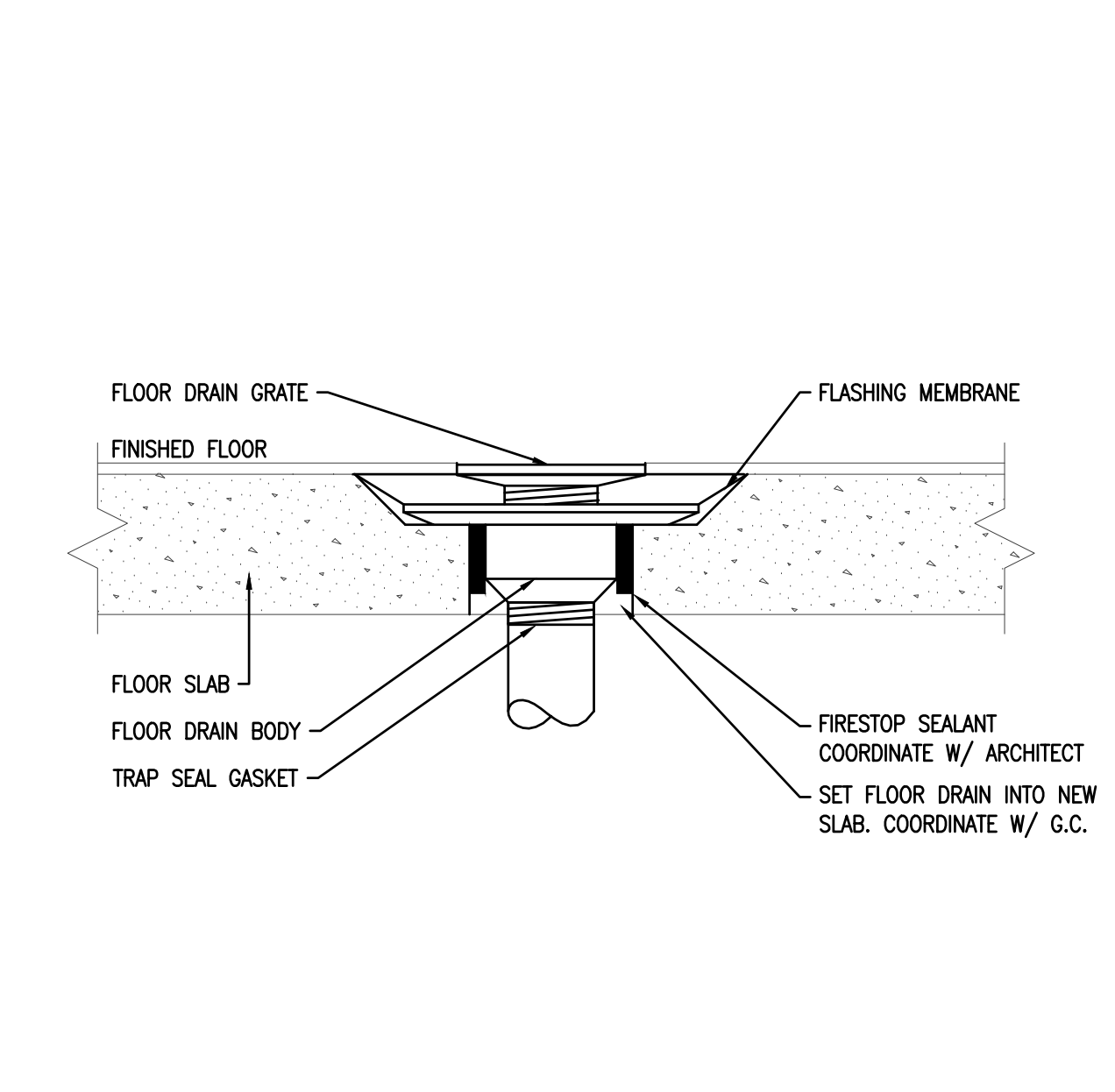
4 CLEVIS-BAND HANGER/ROD INSTALLATION NTS



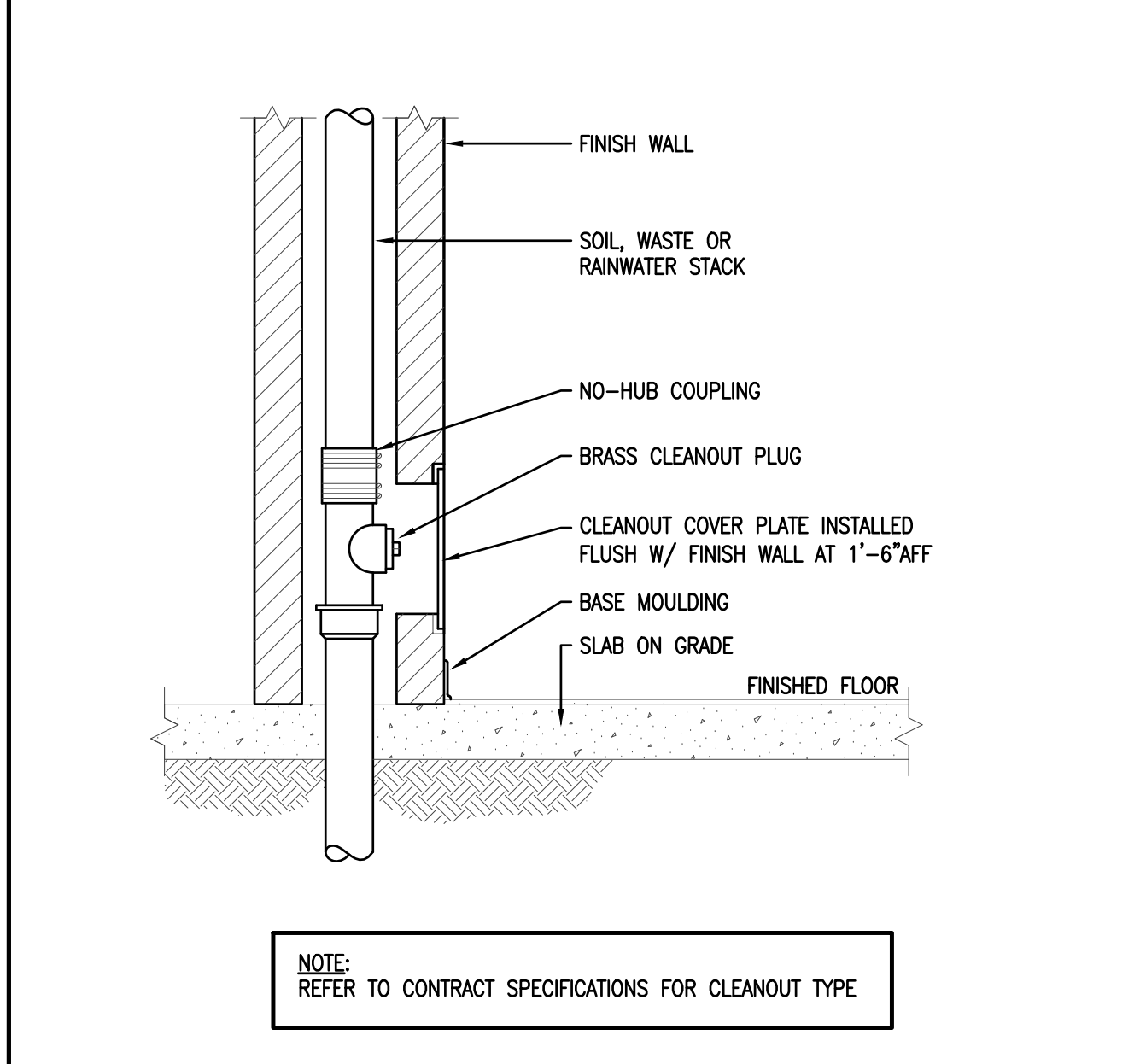
5 STUD WALL FIRE RATED SLEEVE NTS



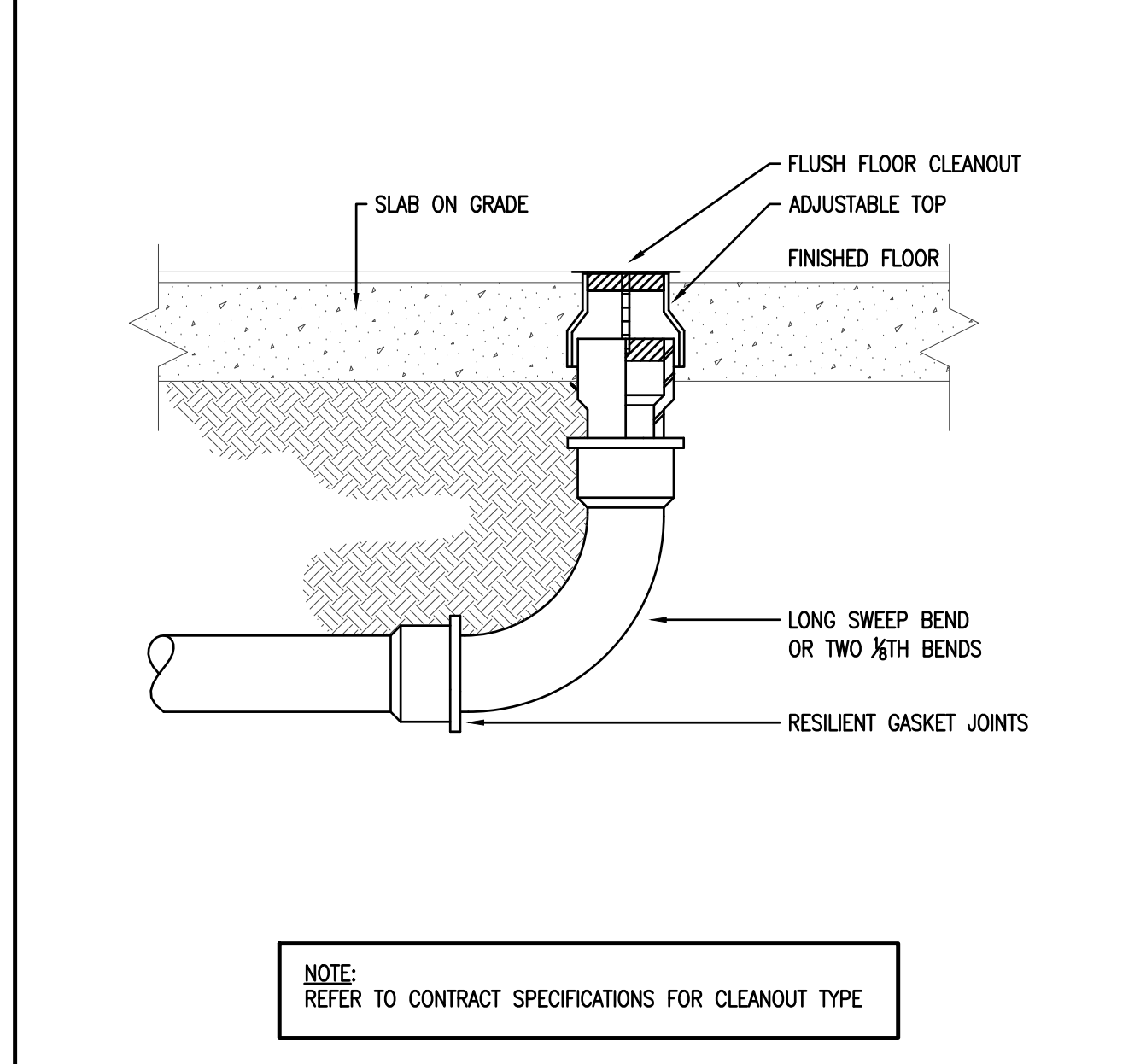
6 EXTERIOR WALL WATER TIGHT SLEEVE NTS



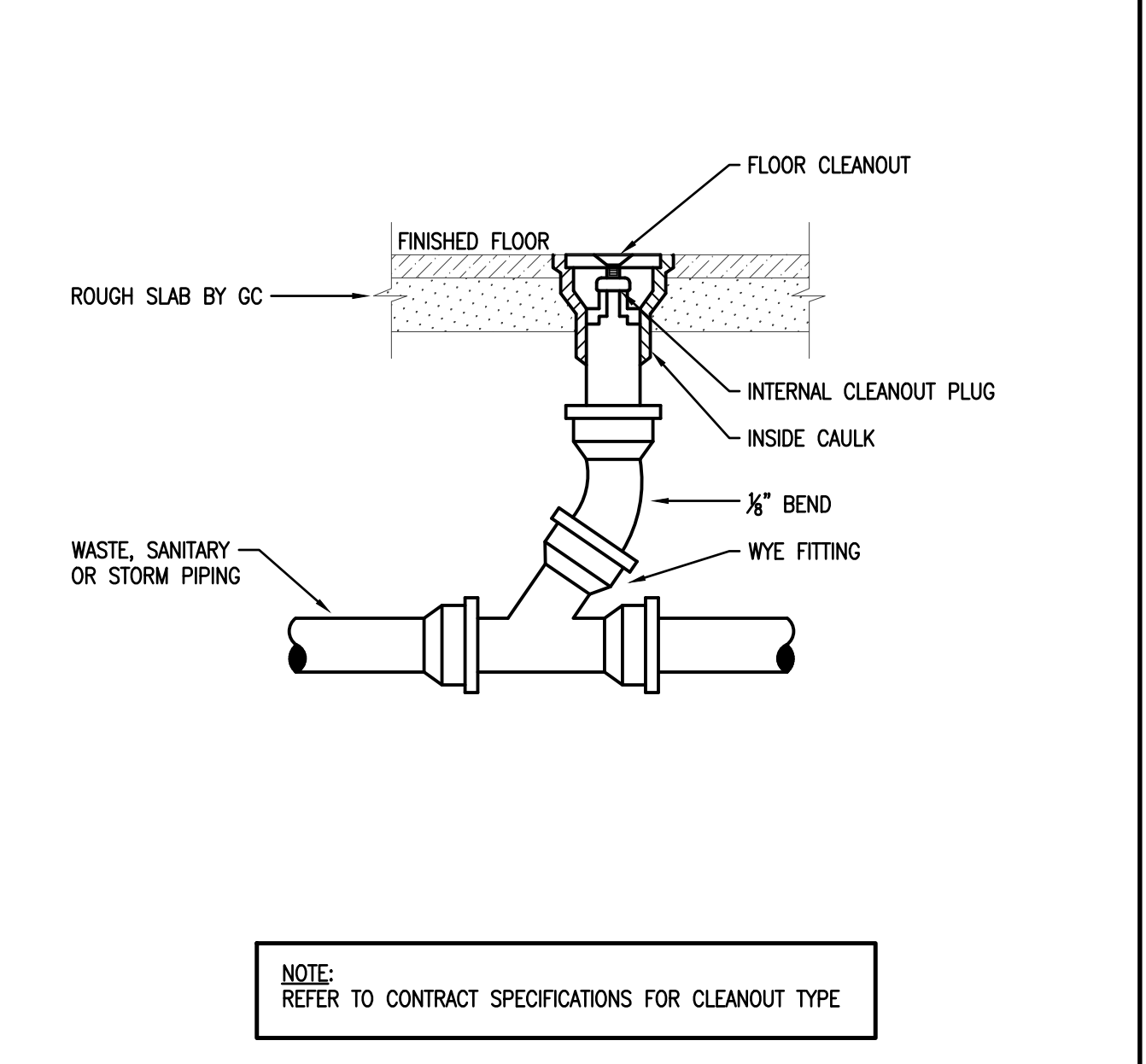
7 FLOOR DRAIN INSTALLATION - NEW SLAB NTS



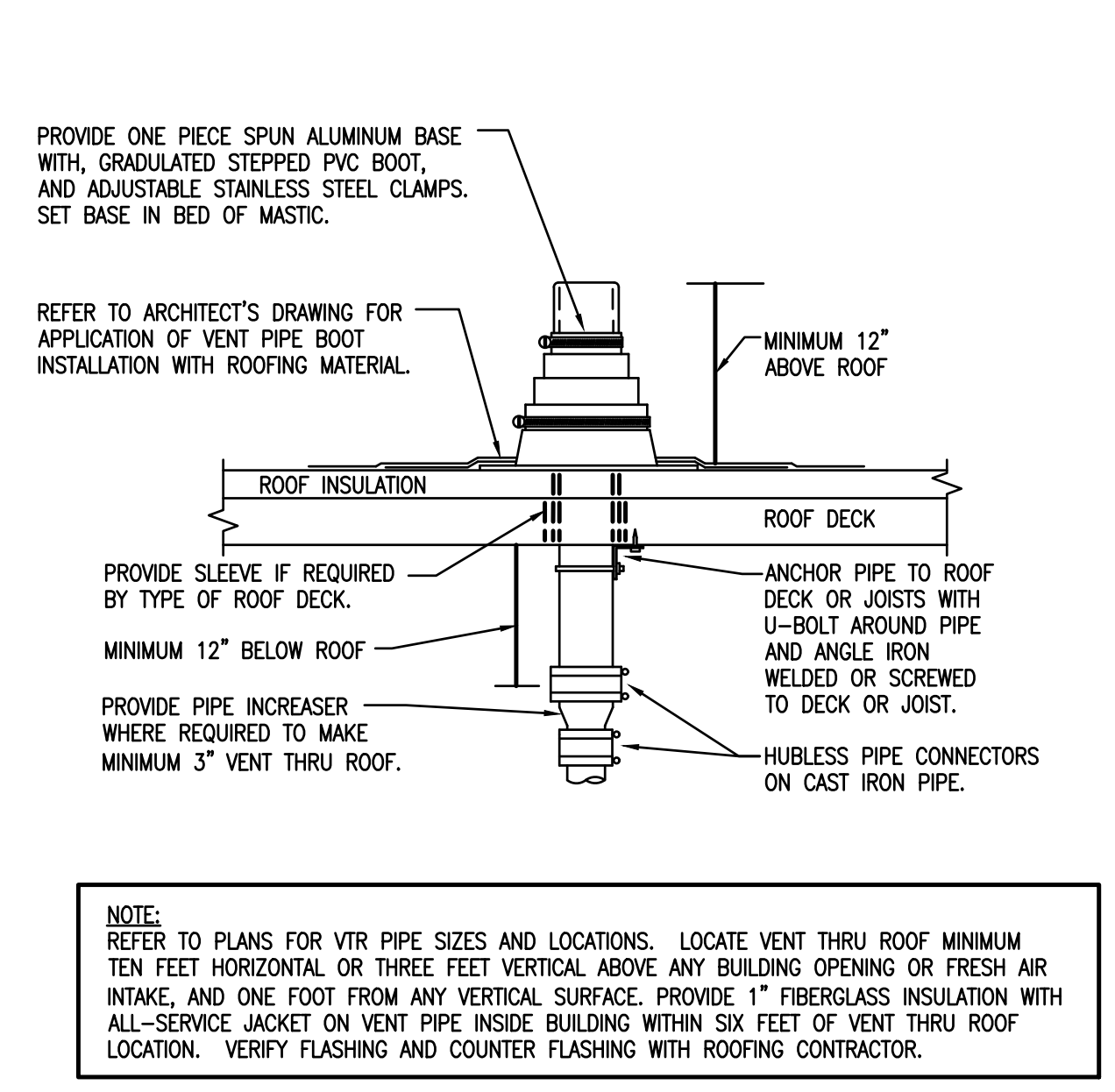
8 FLUSH WALL CLEANOUT DIAGRAM NTS



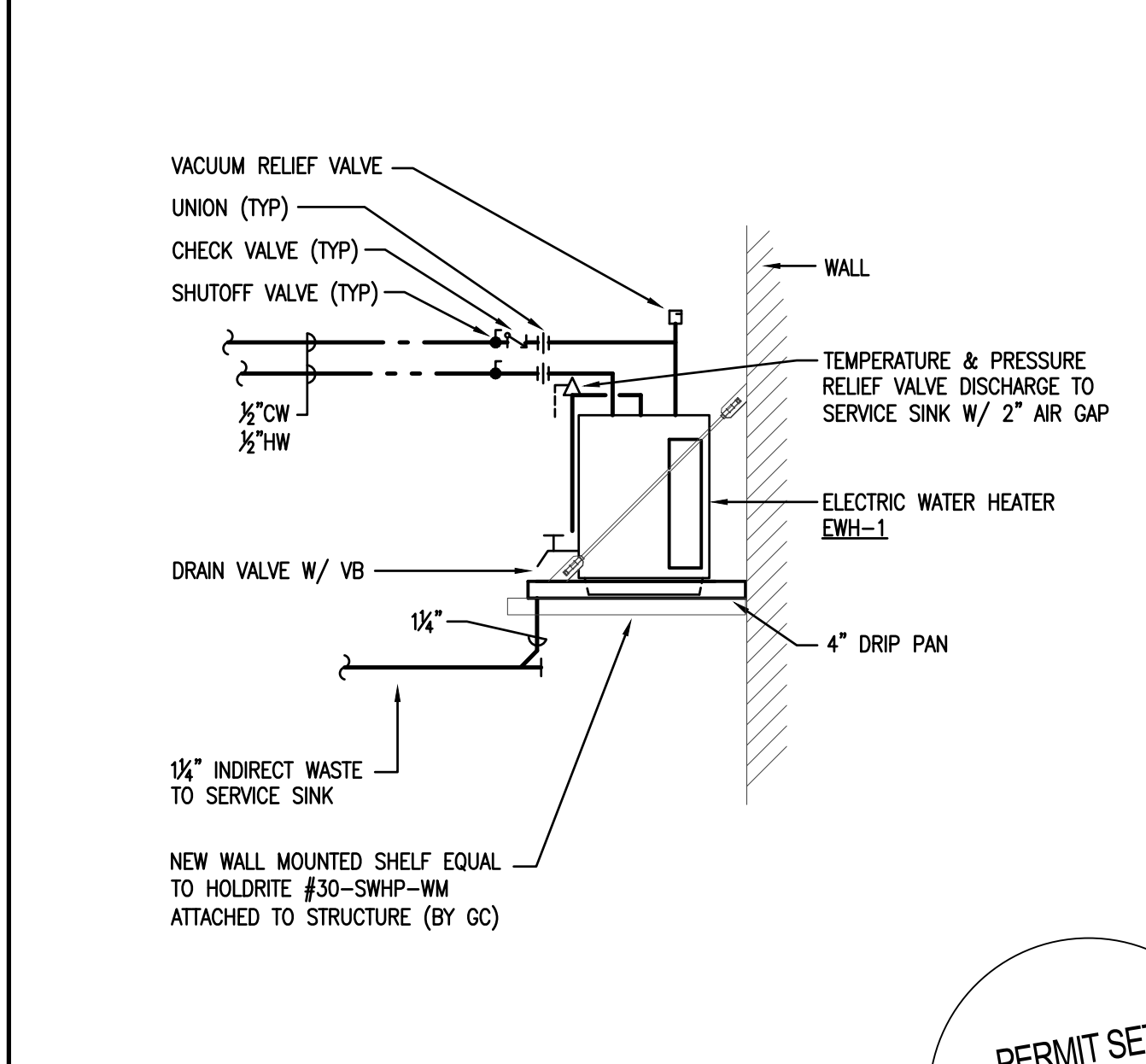
9 END OF RUN FCO INSTALLATION NTS



10 IN THE RUN CLEANOUT NTS



11 VENT THRU ROOF DETAIL NTS



12 WALL MOUNTED EWH DIAGRAM NTS

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1. OCCUPANCY CLASSIFICATION: LIGHT HAZARD AREAS: OFFICES RESTROOMS	DENSITY 0.10 GPM/FT ² AREA OF APPLICATION 1500 FT ² COVERAGE PER SPRINKLER 225 FT ² INSIDE HOSE STREAM 0 GPM OUTSIDE HOSE STREAM 100 GPM
2. OCCUPANCY CLASSIFICATION: ORDINARY HAZARD GROUP 1 AREAS: WATER SERVICE ROOM ELECTRICAL ROOMS STORAGE CLOSETS TENANT SPACES	DENSITY 0.15 GPM/FT ² AREA OF APPLICATION 1500 FT ² COVERAGE PER SPRINKLER 130 FT ² INSIDE HOSE STREAM 0 GPM OUTSIDE HOSE STREAM 250 GPM
3. OCCUPANCY CLASSIFICATION: ORDINARY HAZARD GROUP 2 AREAS: MECHANICAL ROOMS STORAGE ROOMS	DENSITY 0.20 GPM/FT ² AREA OF APPLICATION 1500 FT ² COVERAGE PER SPRINKLER 130 FT ² INSIDE HOSE STREAM 0 GPM OUTSIDE HOSE STREAM 250 GPM
GOVERNING PARTIES INSURANCE UNDERWRITER (VERIFY W/ OWNER) AUTHORITY HAVING JURISDICTION MIDDLETOWN FIRE MARSHALL	

1 HYDRAULIC DESIGN CRITERIA

FIRE PROTECTION GENERAL NOTES:

1. THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE FIRE PROTECTION SYSTEMS, APPARATUS AND EQUIPMENT FOR THIS PROJECT. AS SHOWN ON DRAWING, PLUS AS REQUIRED BY NFPA-13, NFPA-24, AS REFERENCED IN THE STATE & LOCAL BUILDING & FIRE CODES AND THE AUTHORITY HAVING JURISDICTION.
2. ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE FIRE PROTECTION SUBCONTRACT, LABOR AND TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE STATE & LOCAL BUILDING & FIRE CODES.
3. ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PART OF THE WORK INCLUDING ALL FEES OR EXPENSES INCURRED.
4. UNLESS OTHERWISE NOTED, IT IS THE INTENT OF THESE DOCUMENTS THAT THIS AREA SHALL BE 100% SPRINKLERED.
5. ALL SPRINKLERS PROTECTING LIGHT HAZARD AREAS SHALL BE QUICK RESPONSE.
6. THE SPRINKLER CONTRACTOR SHALL PERFORM A HYDRANT FLOW TEST AND SHALL BASE THEIR HYDRAULIC CALCULATIONS ON THEIR TEST RESULTS.
7. THE SPRINKLER CONTRACTOR SHALL PREPARE THEIR OWN FABRICATION/WORKING DRAWINGS OF THE SPRINKLER WORK AND OBTAIN APPROVALS FROM AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION, AND SUBMIT TO THE ARCHITECT FOR APPROVAL.
8. SPRINKLERS SHALL BE LOCATED ABOVE AND BELOW ALL DUCTWORK GREATER THAN 4'-0".
9. ROUTING OF SPRINKLER MAINS, BRANCHES AND SPRINKLERS SHALL BE THOROUGHLY COORDINATED WITH OTHER TRADES AND BUILDING STRUCTURE PRIOR TO SUBMISSION OF COORDINATED SHOP DRAWINGS. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATING, PREPARING, AND SUBMITTING COORDINATION DRAWINGS FOR APPROVAL.
10. ALL SLEEVES THROUGH CONCRETE FLOORS AND FIRE RATED WALLS OR PARTITIONS SHALL BE FIRE STOPPED WITH UL RATED ASSEMBLIES OF EQUAL FIRE RATING.
11. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, STORAGE AND CUTTING OF ANY CEILING TILES TO ACCOMMODATE SPRINKLERS. THEY SHALL ALSO REINSTALL THE CEILING TILES AND REPLACE ANY DAMAGED TILES.
12. SPRINKLERS IN AREAS WITH NO FINISHED CEILING SHALL BE LOCATED AS HIGH AS POSSIBLE. SPRINKLERS SUBJECT TO PHYSICAL DAMAGE SHALL BE INSTALLED WITH PROTECTIVE CAGES.
13. PATCH PIPE CORES WHERE FIRE PROTECTION PIPING HAS BEEN INSTALLED. PAINT PATCH WORK TO MATCH SURFACES.
14. THESE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EACH AND EVERY OFFSET WITH REGARD TO THE PIPING THAT IS TO BE INSTALLED. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL DRAWINGS, AND MAKE DETAILED NOTES OF ALL NECESSARY OFFSETS REQUIRED WITH THE INSTALLATION OF THEIR WORK. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE AND PROJECT CONDITIONS.
15. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE TO PROVIDE A COMPLETE SET OF SHOP DRAWINGS AND HYDRAULIC CALCULATIONS WHICH SHALL BEAR THE SEAL OF A FIRE PROTECTION ENGINEER DULY LICENSED IN THE STATE WHERE WORK IS PERFORMED.
16. CONTRACTOR IS TO CLEAN/FLUSH ENTIRE SYSTEM BACK TO THE STREET WATER MAIN.
17. AT THE COMPLETION, TEST ENTIRE SYSTEM PER NFPA-13, NFPA-24, AND NFPA-25. FILE ALL REPORTS AND CERTIFICATIONS. SUBMIT TO OWNER COPIES OF ALL REPORTS AND CERTIFICATIONS, TOGETHER WITH A COPY OF NFPA-25.
18. INSTRUCT THE OWNER ON MAINTENANCE PROCEDURES AND SYSTEM OPERATION.
19. SUBMIT ACCURATE AS-BUILT DRAWINGS.
20. PROVIDE PROPER SEISMIC RESTRAINTS FOR ALL REQUIRED FIRE PROTECTION PIPING PER NFPA AND LOCAL BUILDING CODES.
21. PRESSURE TEST ALL PIPING AND ALARMS PER NFPA.
22. WHERE ALL SPRINKLER PIPING IS EXPOSED, COORDINATE PAINTING PIPING AND SPRINKLERS WITH ARCHITECT. SPRINKLER HEADS SHALL BE FACTORY PAINTED AND NOT FIELD PAINTED.
23. EXTERIOR CANOPIES CONSTRUCTED OF NON-COMBUSTIBLE CONSTRUCTION DO NOT REQUIRE SPRINKLER PROTECTION PER NFPA-13. WHERE EXTERIOR CANOPIES REQUIRE SPRINKLER PROTECTION PER NFPA, PROVIDE DRY TYPE SPRINKLERS OFF OF WET SPRINKLER SYSTEM.
24. INSTALL ALL PENDENT SPRINKLERS LOCATED ON SUSPENDED CEILINGS ON CENTER OF CEILING TILES BOTH WAYS. IF SPRINKLERS ARE LOCATED IN GYPSUM CEILINGS, INSTALL AND ALIGN HORIZONTALLY AND VERTICALLY WITH LIGHT FIXTURES AS MUCH AS POSSIBLE SPACING REQUIREMENTS ALLOW.

FIRE PROTECTION LEGEND

	NEW WORK PIPING (INDICATED AS HEAVY LINE)
	F FIRE SERVICE BELOW GRADE OR BURIED
	WS WET SPRINKLER PIPE
	DS DRY SPRINKLER PIPE
	D SPRINKLER DRAIN
	FDC FIRE DEPARTMENT CONNECTION PIPE
	PIPE TEE LOOKING UP
	PIPE TEE LOOKING DOWN
	UP/RISE PIPE RISER
	DN/DR PIPE ELBOW DOWN OR DROP
	CONTINUATION FLOW IN DIRECTION OF ARROW
	UN UNION
	PG PRESSURE GAUGE WITH PETCOCK
	FS FLOW SWITCH
	PS PRESSURE SWITCH
	CV CHECK VALVE
	OS&Y OS&Y GATE VALVE
	BV BALL VALVE
	VV VALVE IN VERTICAL
	WACV ALARM CHECK VALVE (WET SYSTEM)
	DACV ALARM CHECK VALVE (DRY SYSTEM)
	DOVA HORIZONTAL DOUBLE CHECK VALVE ASSEMBLY
	WTS WATER TIGHT SLEEVE
	DV DRAIN VALVE WITH HOSE END
	FDC SIAMESE FIRE DEPARTMENT CONNECTION
	U UPRIGHT WET SPRINKLER
	P PENDENT WET SPRINKLER
	UG UPRIGHT W/ GUARD
	S SIDEWALL SPRINKLER
	PIPE NODE NUMBER
	SPRINKLER NODE NUMBER
	EB / WMG ELECTRIC BELL / WATER MOTOR GONG
	TYP TYPICAL
	NC NORMALLY CLOSED
	TS TAMPER SWITCH
	AFF ABOVE FINISHED FLOOR
	FFE FINISHED FLOOR ELEVATION
	AFG ABOVE FINISHED GRADE
	LFPC LIMIT OF FIRE PROTECTION CONTRACT
	NFPC NOT IN FIRE PROTECTION CONTRACT
	GC GENERAL CONTRACTOR
	FPC FIRE PROTECTION CONTRACTOR
	PC PLUMBING CONTRACTOR
	EC ELECTRICAL CONTRACTOR
	HVAC HVAC CONTRACTOR



DAVID J. KNIGHT
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REGISTERED PROFESSIONAL ENGINEER MECHANICAL

REVISIONS:

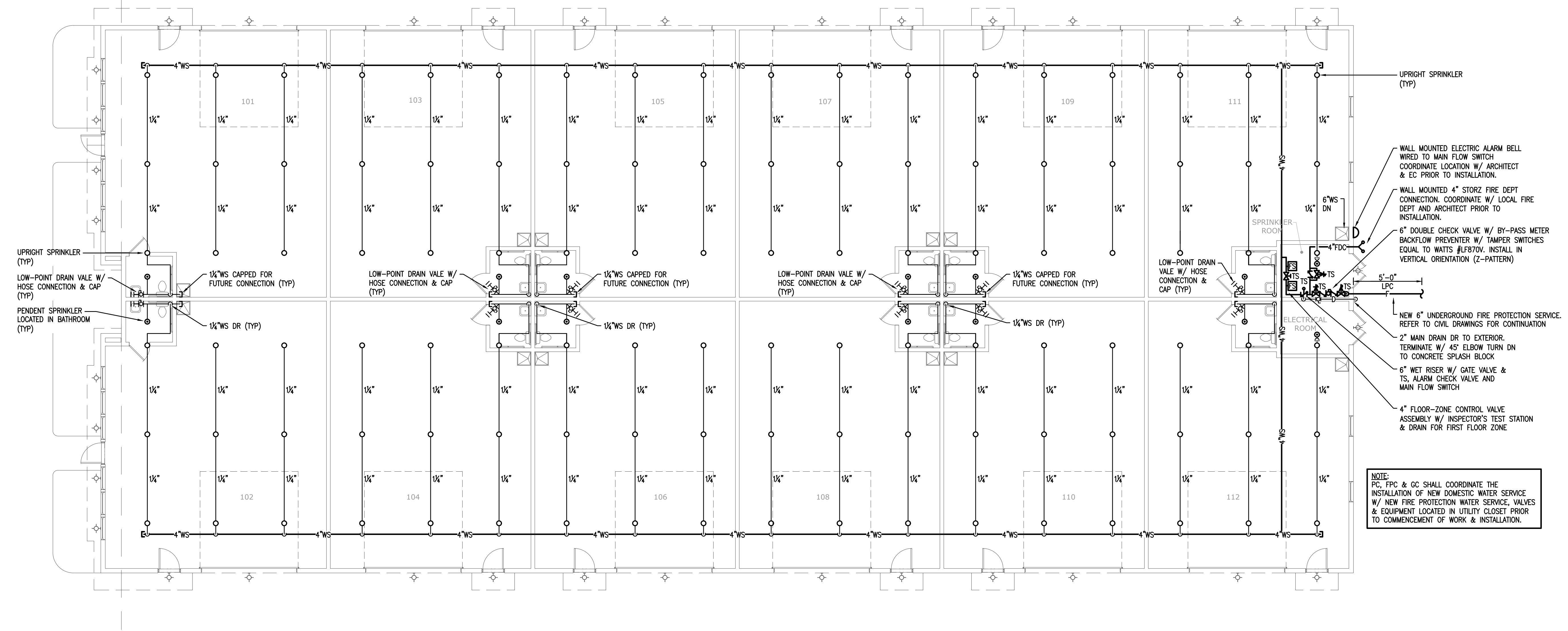
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SCALE: AS NOTED
DATE: NOVEMBER 15, 2024

Coddington Cove Commons
300 Coddington Highway
Middletown, Rhode Island, 02842

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REVISIONS:
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 DATE: NOVEMBER 15, 2024

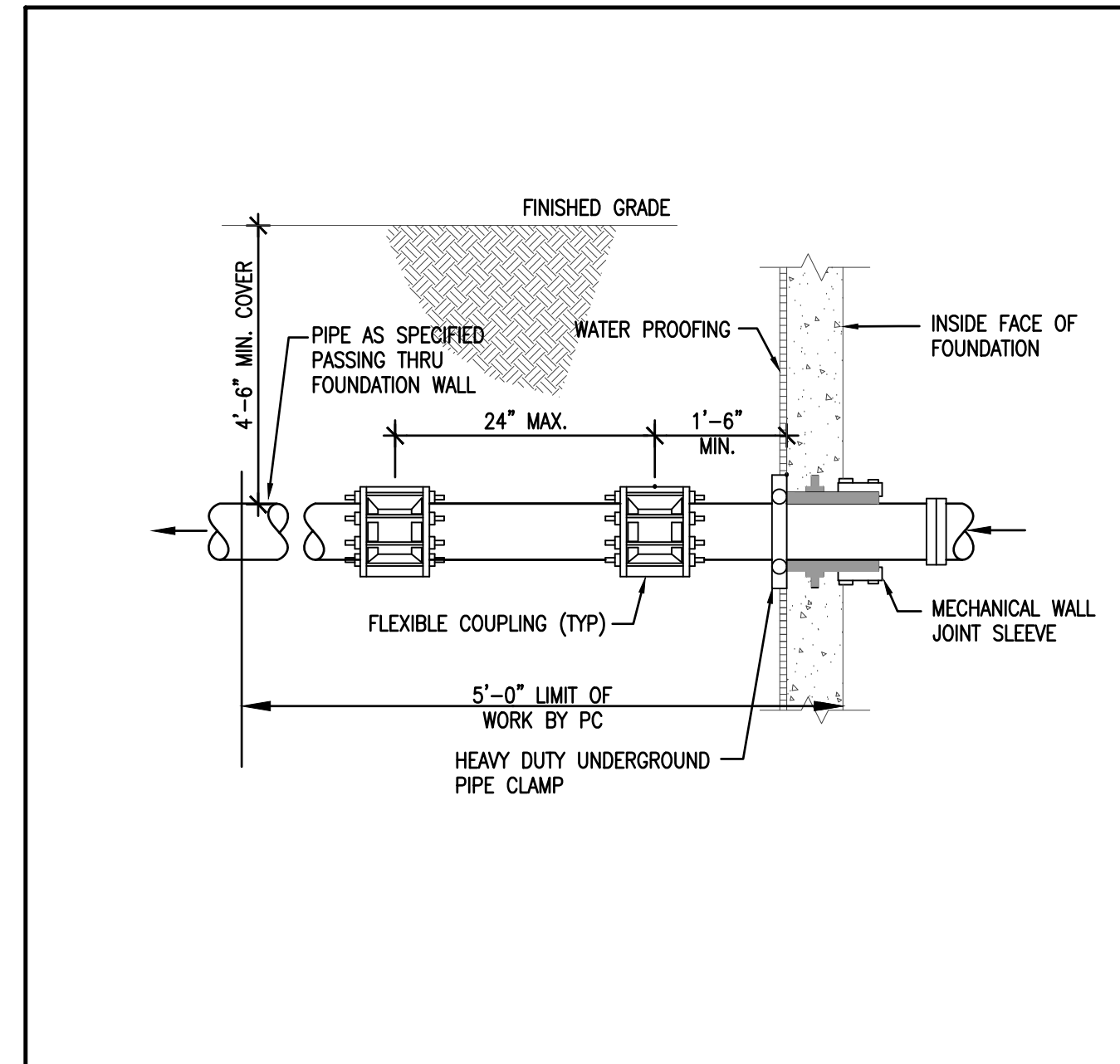
1 BUILDING 1: FLOOR PLAN - FIRE PROTECTION
 Scale: 1/8" = 1'-0"

PERMIT SET
 DATE 11/15/2024

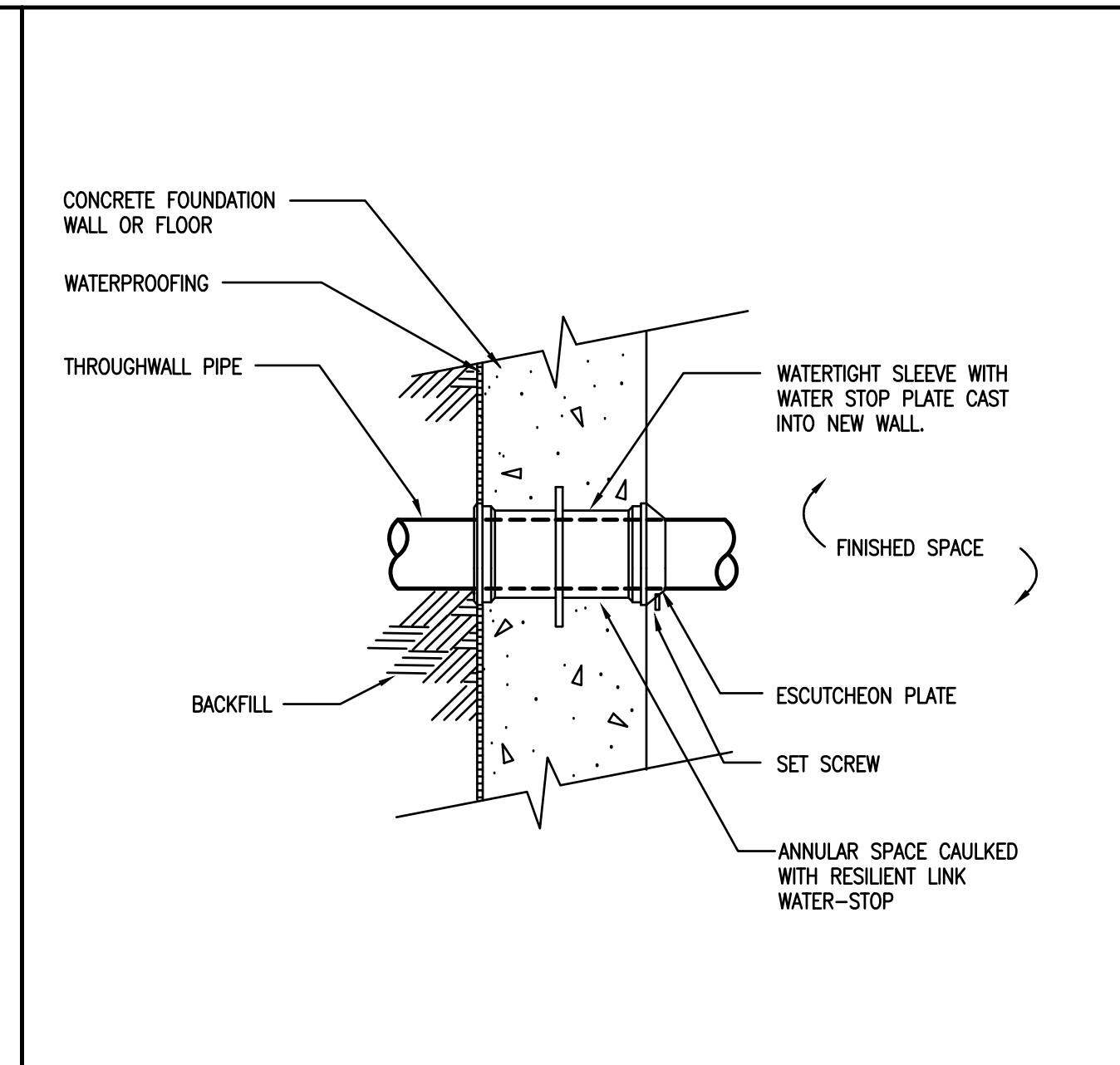
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 BUILDING ENGINEERING RESOURCES, INC.
 66 Main Street Office Commons 95
 N. Easton, MA 02356 351 Centerville Road
 T 508.230.0290 Warwick, RI 02886
 F 508.230.0265 T 401.384.7682
 ber@ber-engineering.com www.ber-engineering.com

Coddington Cove
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 300 Coddington Highway
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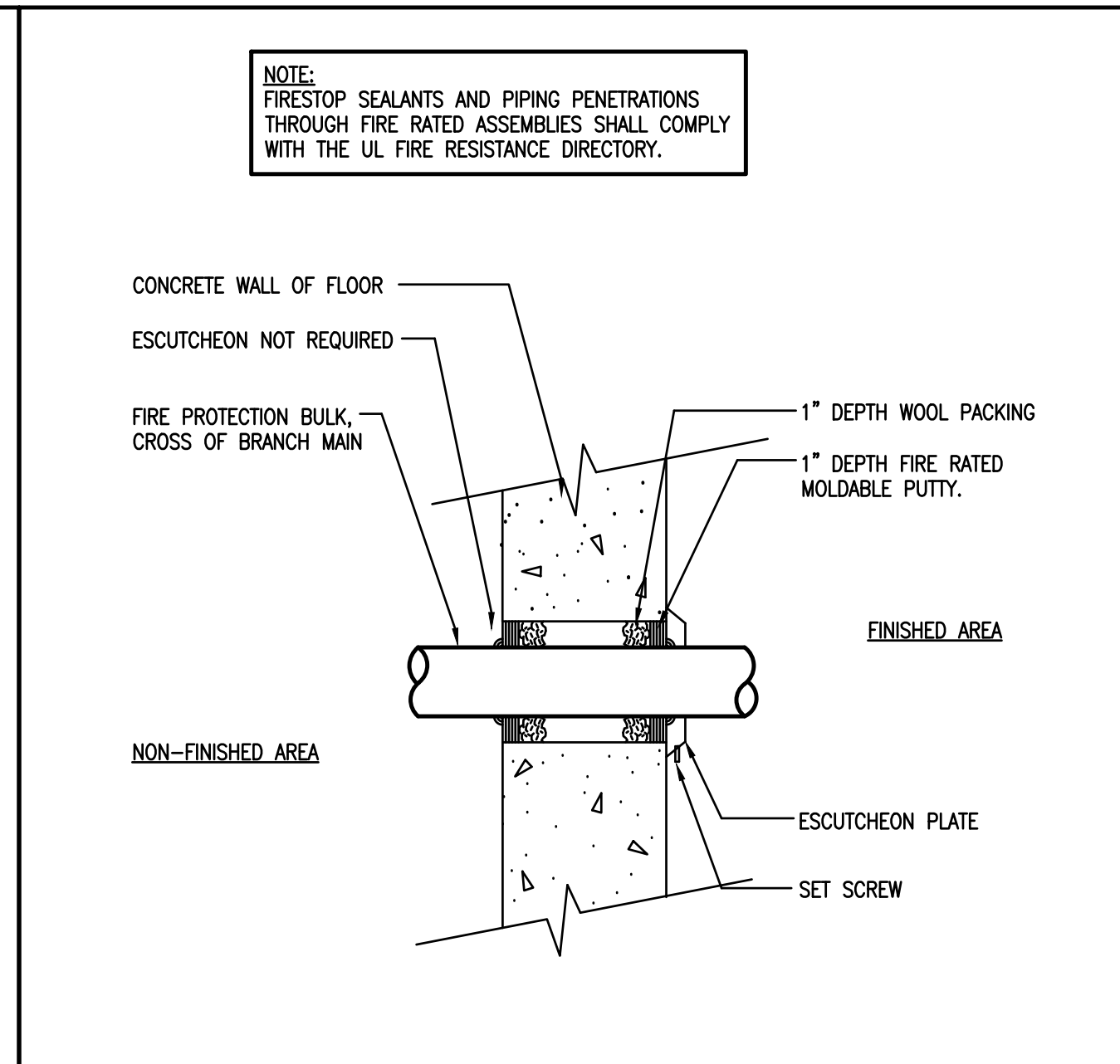
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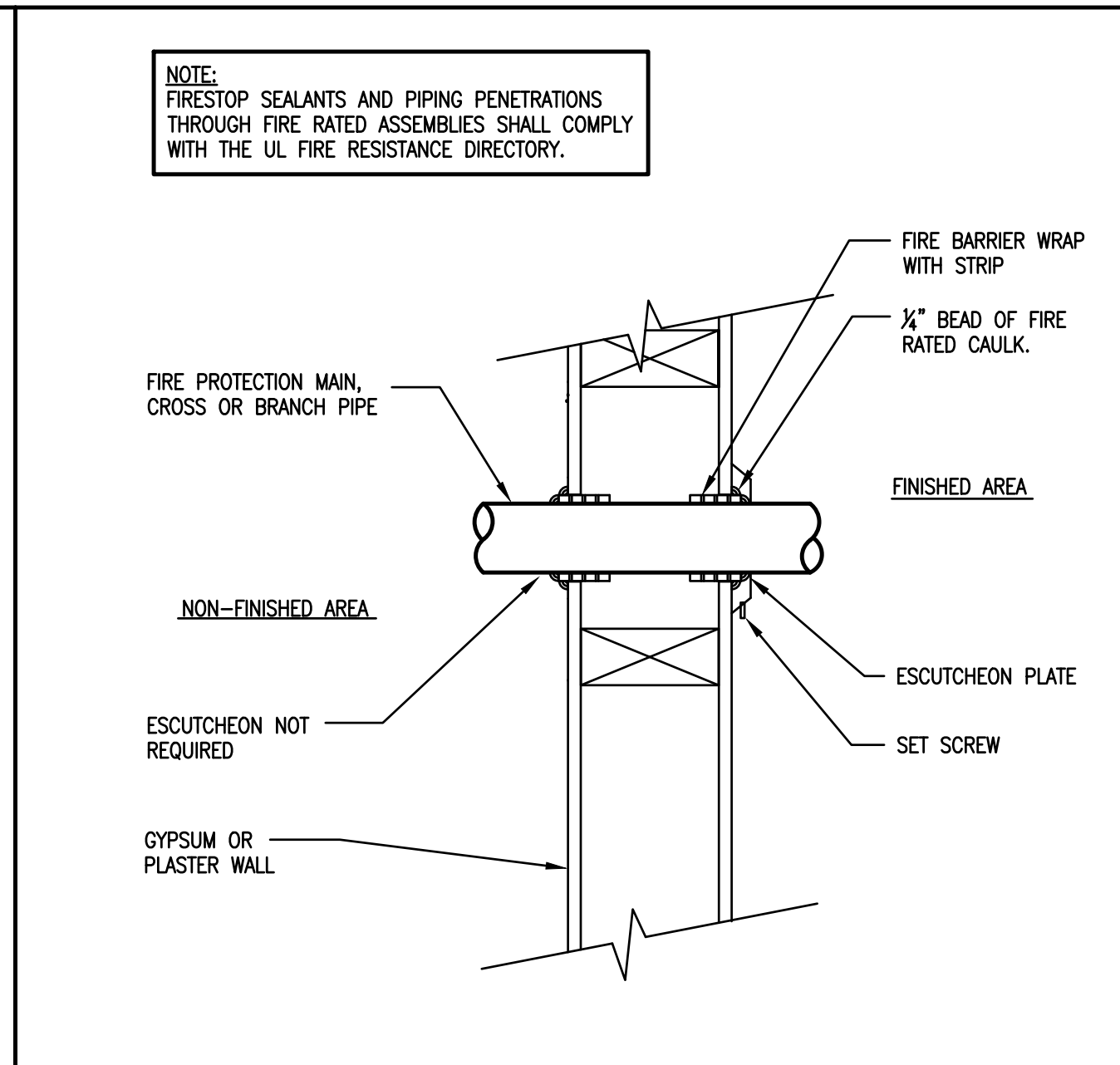
1 TYPICAL SLEEVE THRU FOUNDATION WALL NTS



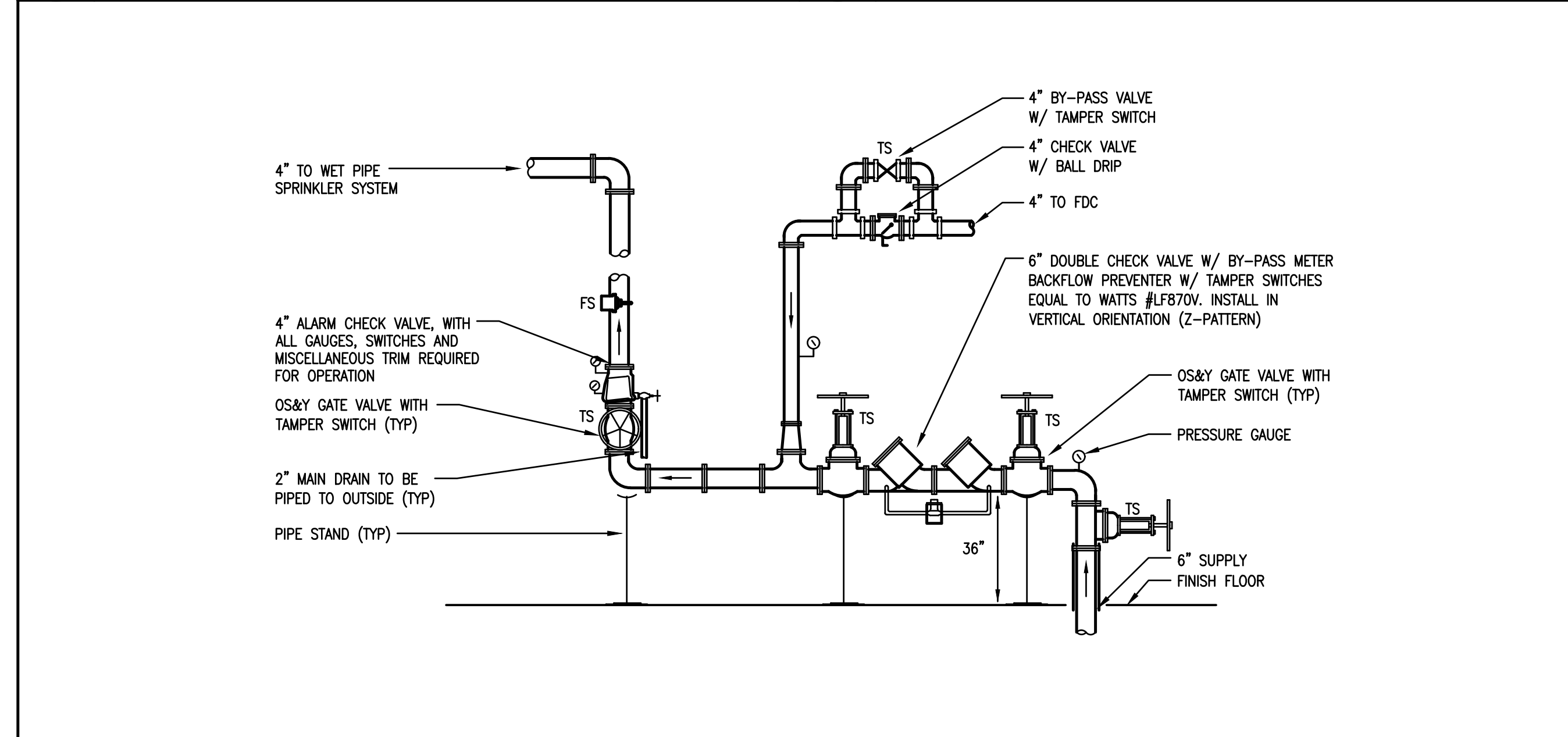
2 WATER TIGHT SLEEVE DIAGRAM NTS



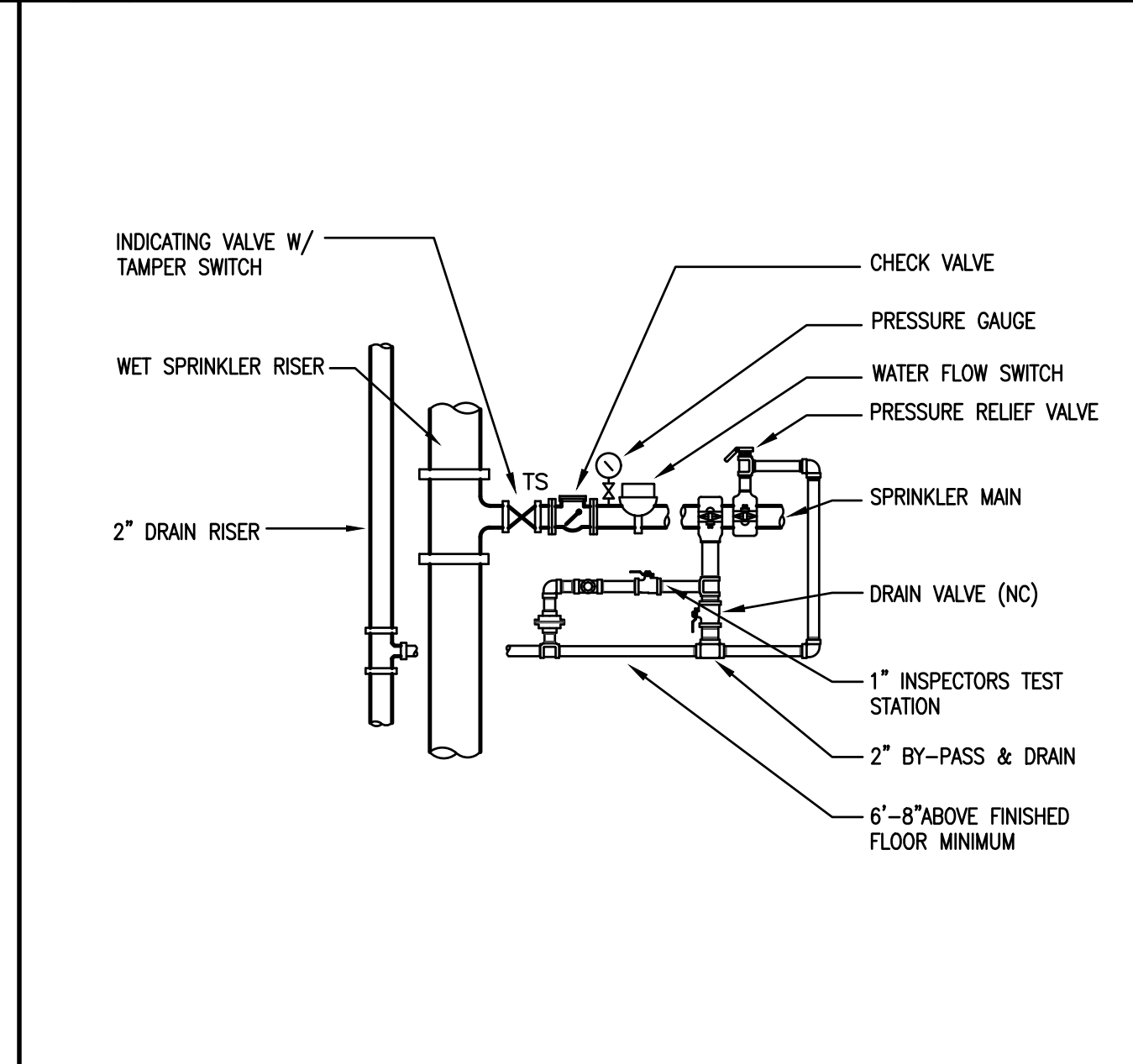
3 MASONRY WALL FIRE RATED SLEEVE NTS



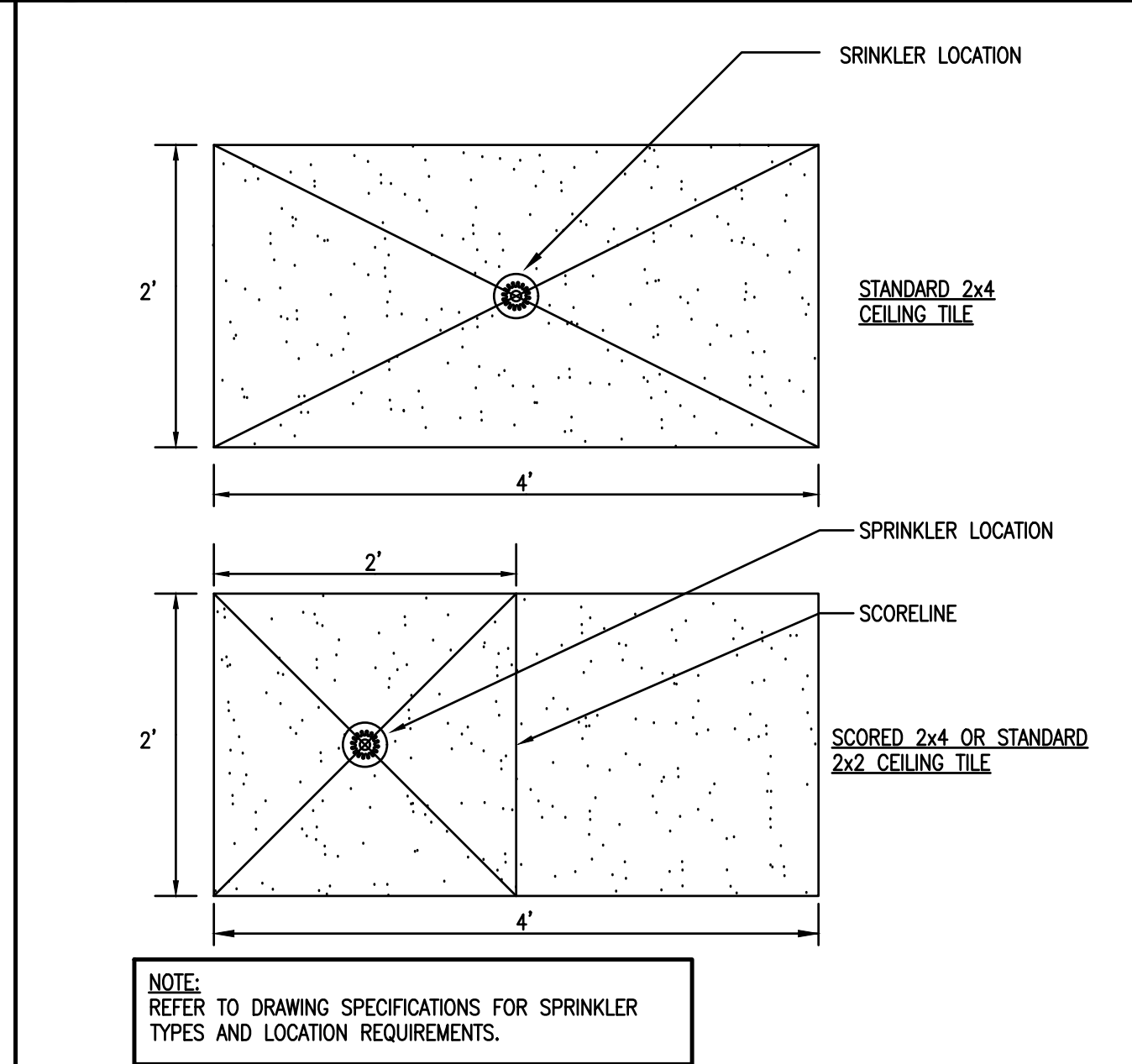
4 STUD WALL FIRE RATED SLEEVE DIAGRAM NTS



5 COMBINATION WET & DRY SPRINKLER RISER ASSEMBLY DIAGRAM NTS



6 FLOOR ZONE CONTROL VALVE ASSEMBLY NTS



7 SPRINKLER LOCATION IN CEILING TILES NTS

PERMIT SET
DATE: 11/15/2024

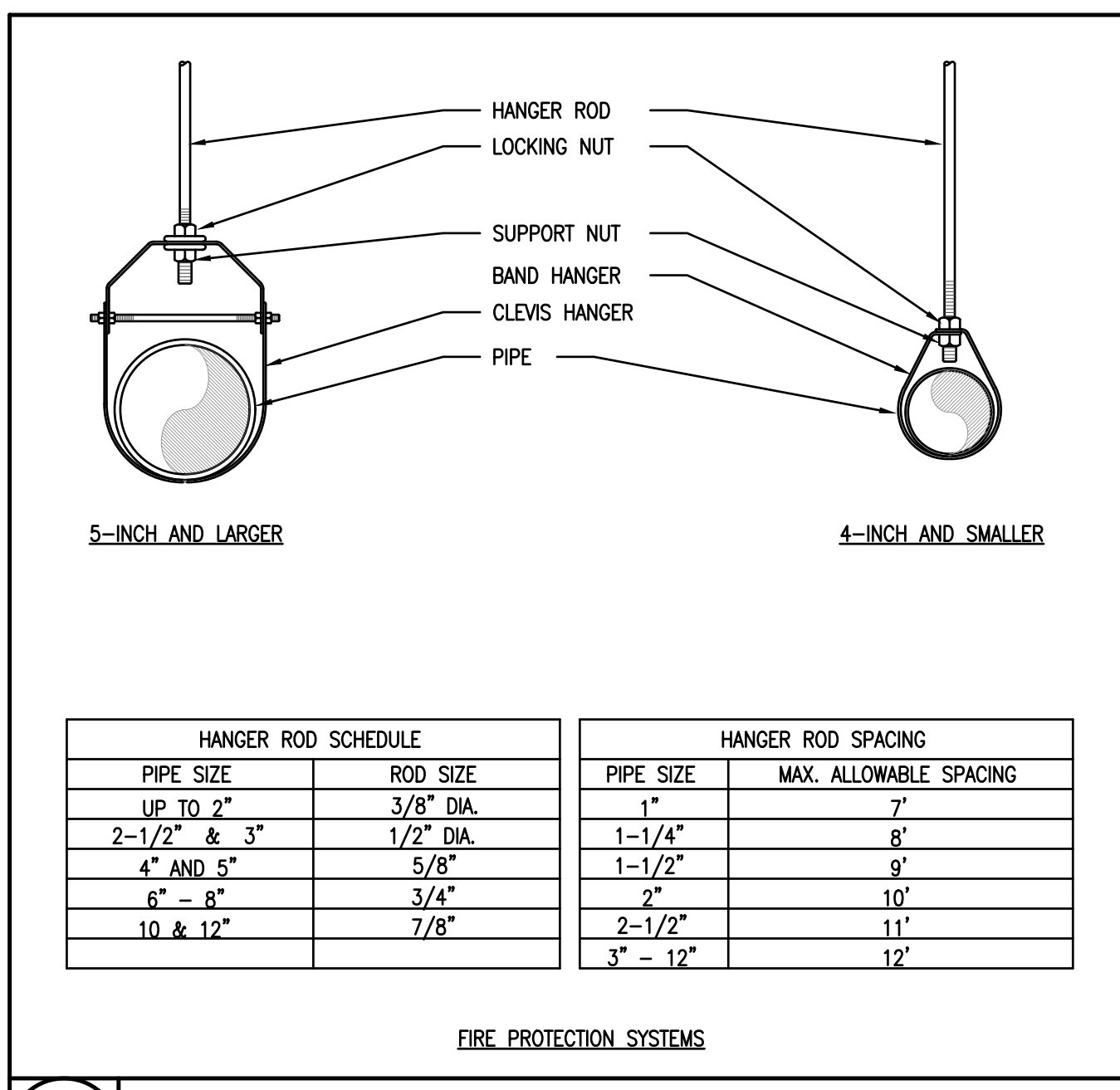
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REVISIONS:

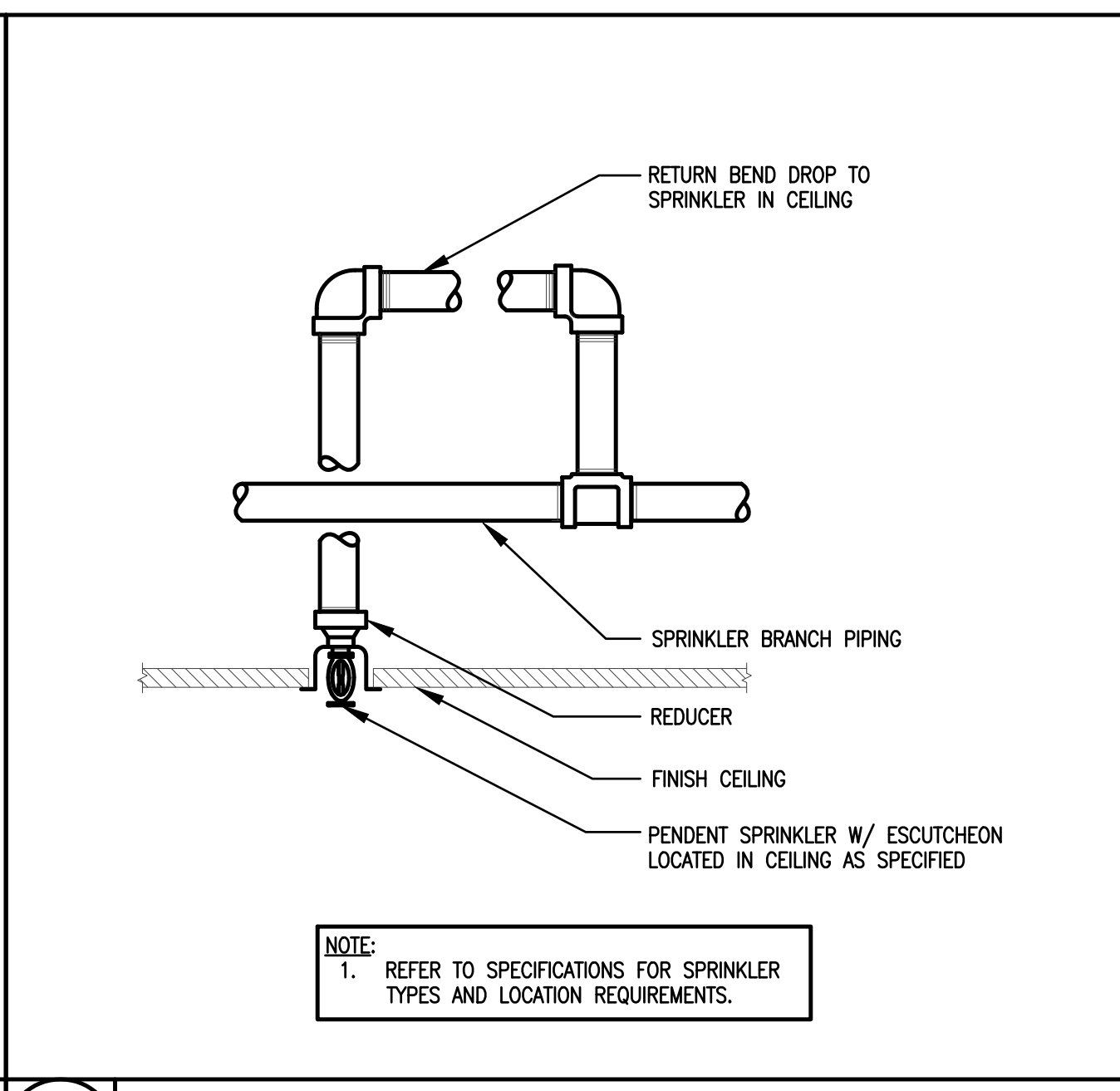
DESCRIPTION:
 FIRE PROTECTION DETAILS
 SCALE: AS NOTED
 DATE: NOVEMBER 15, 2024

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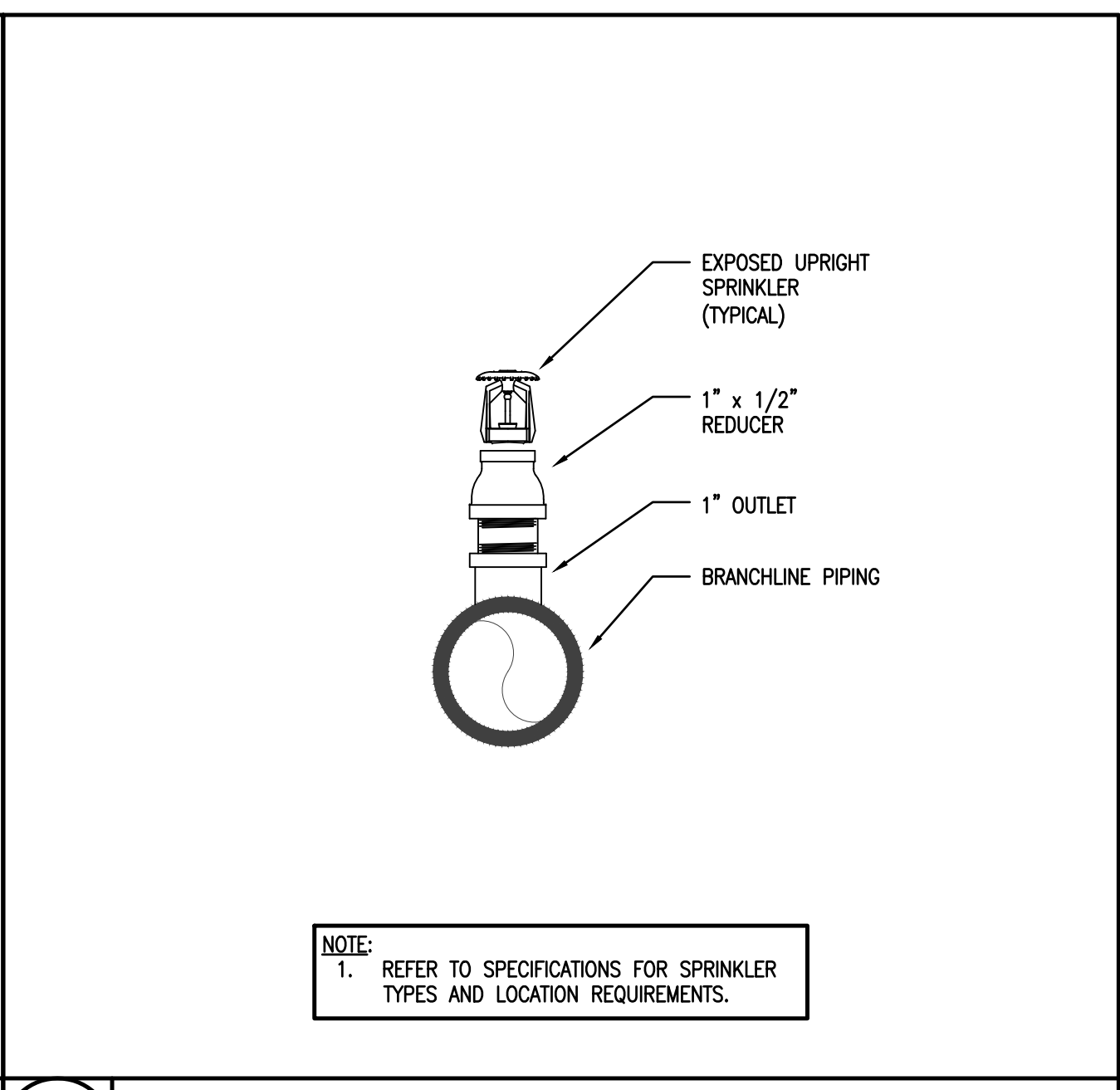
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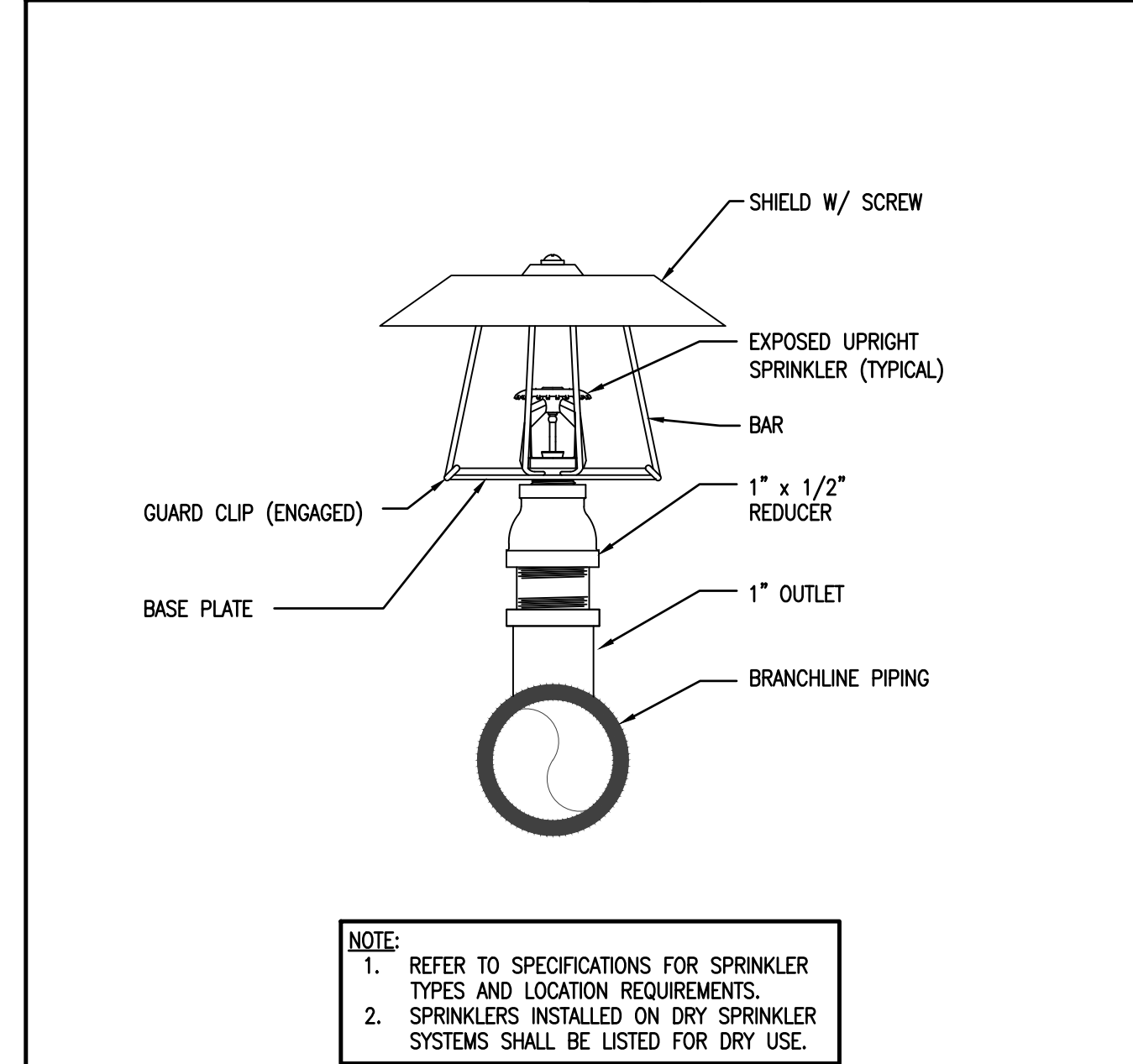
1 TYPICAL PIPE HANGER DIAGRAM NTS



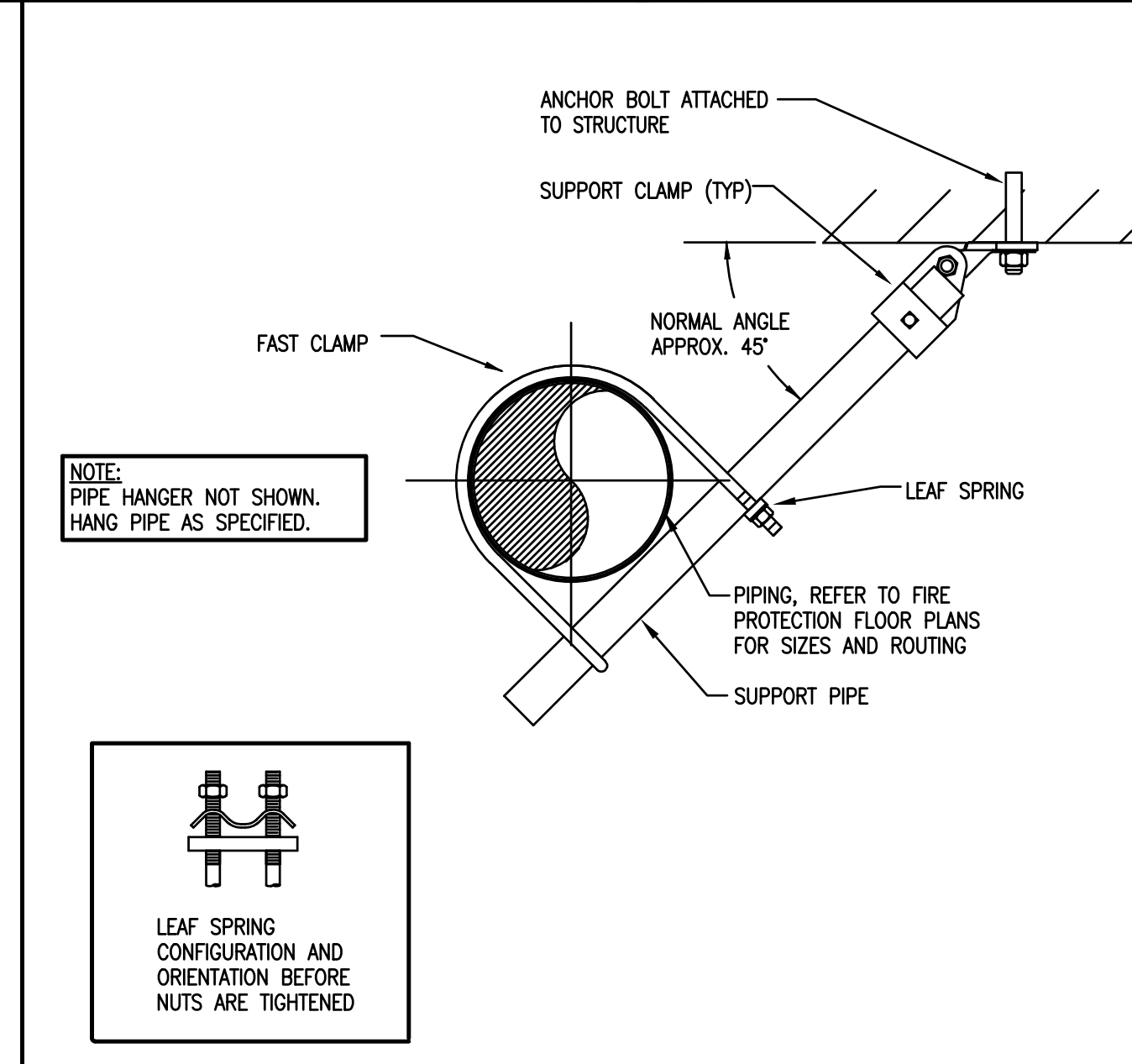
2 RECESSED SPRINKLER RETURN BEND DROP NTS



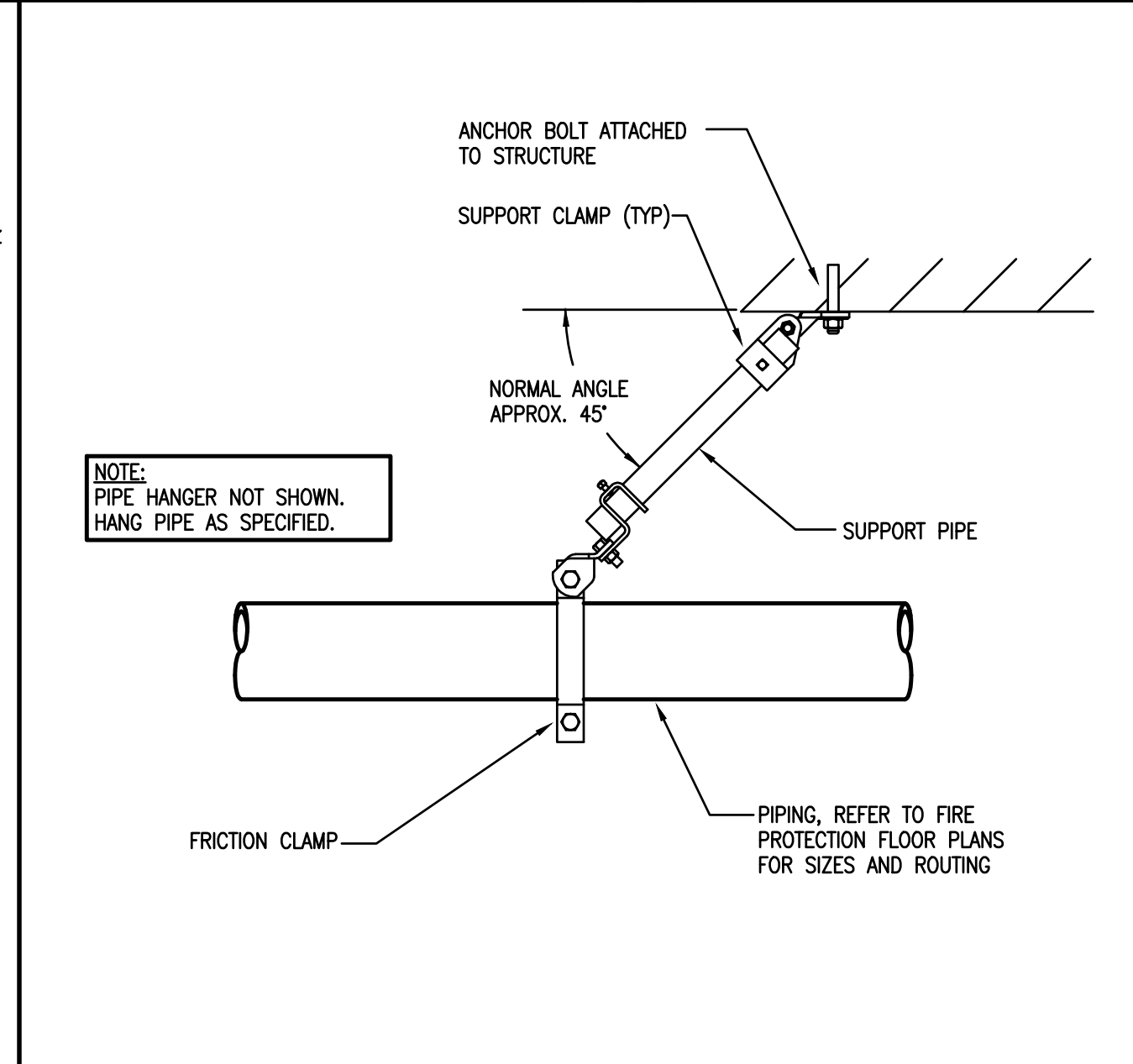
3 EXPOSED UPRIGHT SPRINKLER NTS



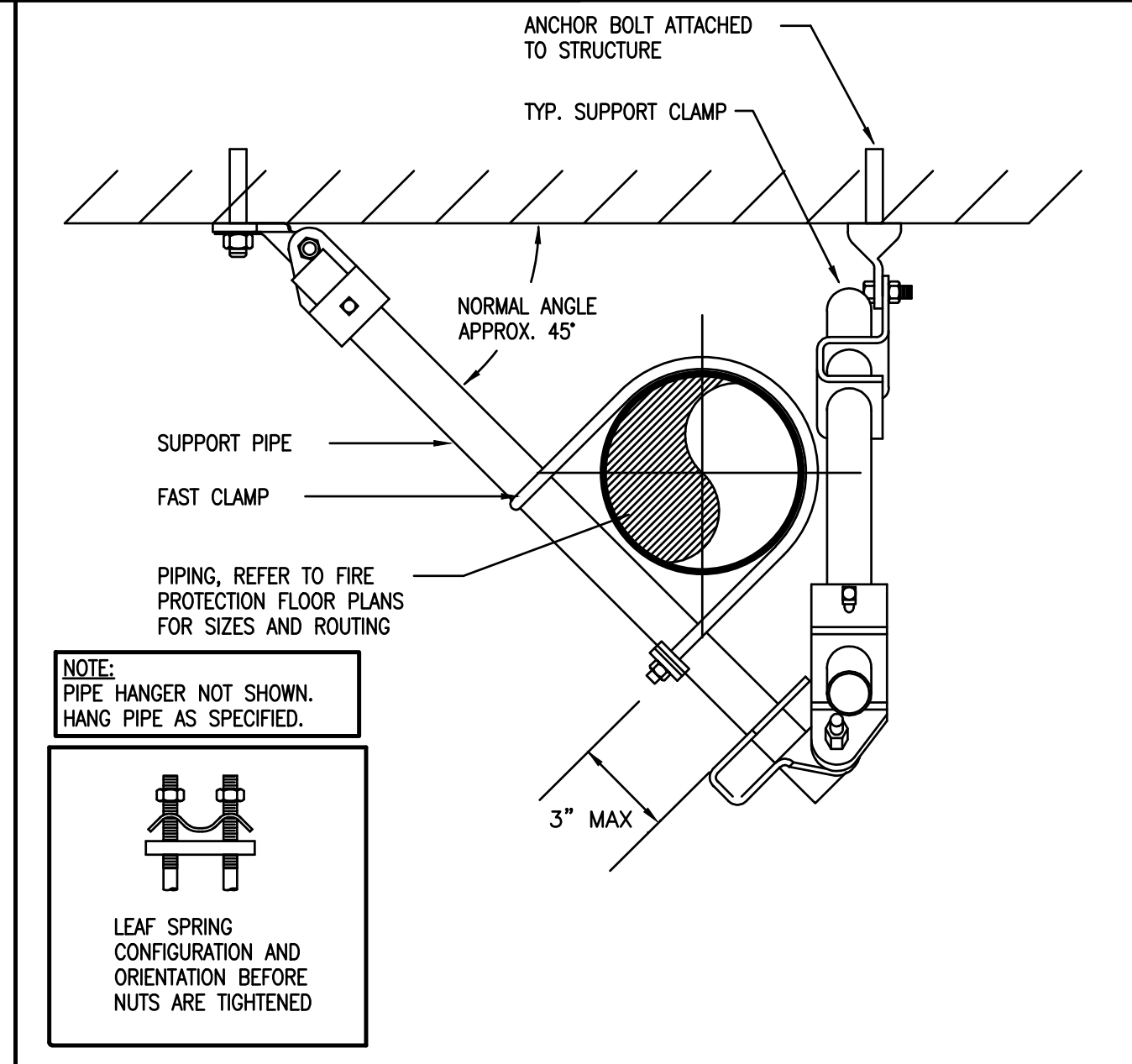
4 UPRIGHT SPRINKLER W/ GUARD NTS



5 LATERAL SEISMIC BRACING DIAGRAM NTS



6 LONGITUDINAL SEISMIC BRACING DIAGRAM NTS



7 4-WAY LONGITUDINAL SEISMIC BRACING NTS

PERMIT SET
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