ARCHITECTURE ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
ADDM	ADDENDUM
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMT	AMOUNT
ANOD	ANODIZE(D)
ARCH	ARCHITECT(URAL)
AUTO	AUTOMATIC
AWT	ACOUSTIC WALL TREATMENT
BC	BACK OF CURB
BD	BOARD
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM OR BENCHMARK
BOD	BOTTOM OF DECK
BOR	BOTTOM OF REVEAL
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT
CAB	CABINETRY
CB	CATCH BASIN
CEM	CEMENT
CG	CORNER GUARD
CIP	CAST-IN-PLACE
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CLK	CLOCK
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
COMP	COMPOSITE
CONC	CONCRETE
CONT	CONTINUE/CONTINUOUS
CORR	CORRIDOR
COV PL	COVER PLATE
CPT	CARPET
CT	CERAMIC TILE
CTR	CENTER
D	DEEP
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DR	DRAIN
DS	DOWNSPOUT
DWG	DRAWING
(E)	EXISTING
E	EAST
EA	EACH
EXP BT	EXPANSION BOLT
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
F/	FACE OF
FA	FIRE ALARM
FB	FLAT BAR
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FIN FLR	FINISH FLOOR
FIN	FINISH(ED)
FLASH	FLASHING
FLR	FLOOR
FLOUR	FLUORESCENT
FM	FLOOR MAT
FOF	FACE OF FINISH
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FPRF	FIRE PROTECTION
FR	FIRE RESISTANT
FRAP	FIREMANS REMOTE ANNUNCIATOR PANEL
FT	FOOT OR FEET
FTG	FOOTING
FURN	FURNITURE
G	GROUND
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS
GYP BD	GYPSUM BOARD
HB	HOSE BIB
HDR	HEADER
HWD	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
ID	INSIDE DIAMETER/DIMENSION
IN	INCH
INCL	INCLUDE(D)
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
J-BOX	JUNCTION BOX
JST	JOIST
JT	JOINT
JAN	JANITOR CLOSET
KO	KNOCKOUT
KPL	KICKPLATE
L	LENGTH
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
LF	LINEAR FOOT OR FEET
LVR	LOUVER
M	METER
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MCP	METAL CEILING PANEL
MECH	MECHANICAL
MEMB	MEMBRANE
MFG	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MIRR	MIRROR
MTD	MOUNTED
MTL	METAL
MWP	METAL WALL PANEL
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER/DIMENSION
ODS	OVERFLOW DOWNSPOUT
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
ORIG	ORIGINAL
OTB	OPEN TO BELOW
OVHD	OVERHEAD
PVG	PAVING
PC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PERF	PERFORATED
PL	PROPERTY LINE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PRELIM	PRELIMINARY
PSI	POUNDS PER CUBIC INCH
PT	POST TENSIONED
PNT	PAINT
PRT	PRESSURE TREATED
PTN	PARTITION
QT	QUARRY TILE
R	RADIUS
R	RISER
RA	RETURN AIR
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
REF	REFERENCE
REFL	REFLECTED
REINF	REINFORCED
REQD	REQUIRED
RESIL	RESILIENT
REV	REVISION
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
RV	ROOF VENT
S	SOUTH
SAM	SELF ADHERED MEMBRANE
SAT	SUSPENDED ACOUSTICAL TILE
SC	SOLID CORE
SCHED	SCHEDULE
SCR	SCREEN
SD	SOAP DISPENSER
SECT	SECTION
SF	SQUARE FOOT OR FEET
SHD	WINDOW SHADE
SHTHG	SHEATHING
SHT	SHEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
ST	STREET
STD	STANDARD
STL	STEEL
STN	STAIN
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPEND(ED)
SYM	SYMMETRICAL
SYS	SYSTEM
T/	TOP OF
T	TREAD
TOB	TOP OF BEAM
TEMP	TEMPORARY
TERM	TERMINATION
T&G	TONGUE & GROOVE
THK	THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TOF	TOP OF CONCRETE OR CURB
TOFF	TOP OF FINISHED FLOOR
TOS	TOP OF SLAB
TOT	TOTAL
TPNG	TOPPING
THV	THERMAL RESISTANCE VALUE
TYP	TYPICAL
UNFIN	UNFINISHED
UNO	UNLESS OTHERWISE NOTED
UR	URINAL
VB	VAPOR BARRIER
VOLT	VOLTAGE
VR	VAPOR RETARDER
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VNR	VENEER
VP	VENEER PLASTER
VFY	VERIFY
W	WEST
W/	WITH
WC	WATER CLOSET
WD	WOOD
WB	WOOD BASE
WDW	WINDOW
WGL	WIRED GLASS
W/O	WITHOUT
WP	WATERPROOFING
WR	WASTE RECEPTACLE
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
W/W	WALL TO WALL
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER
YD	YARD

GENERAL NOTES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE NEW JERSEY UNIFORM CONSTRUCTION CODE (NJAC 5:23) AND ALL APPLICABLE MODEL BUILDING SUBCODES, INCLUDING BUT NOT LIMITED TO:
NEW JERSEY INTERNATIONAL BUILDING CODE, 2021
ICC/ANSI 117.1, 2017 ACCESSIBLE AND USABLE BUILDING AND FACILITIES
INTERNATIONAL MECHANICAL CODE, 2021
NATIONAL ELECTRICAL CODE, 2020
NATIONAL STANDARD PLUMBING CODE, 2021

ALL WORK SHALL BE PERFORMED DURING NORMAL WORK HOURS, AS SET FORTH IN THE MUNICIPAL ORDINANCE WHICH HOLDS JURISDICTION OVER THE AREA OF WORK, UNLESS SPECIFICALLY PROVIDED OTHERWISE IN THESE CONTRACT DOCUMENTS, SPECIFICATIONS, OR OTHER WRITTEN AGREEMENTS BETWEEN OWNER AND CONTRACTOR.

THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.

THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK-SITE AND PROTECT ALL BUILDING MATERIALS FROM THE ELEMENTS AND FROM ON-GOING CONSTRUCTION WORK AS NECESSARY TO MAINTAIN THE MATERIAL INTEGRITY.

THE AREA OF WORK SHALL BE SEPARATED FROM ALL OTHER OCCUPIED AREAS BY MINIMUM 6 MIL POLY ETHYLENE DUST CURTAIN. WHERE AREAS OF WORK ARE ADJACENT TO PUBLIC AREAS TO BE OCCUPIED AND CONSTRUCTION PARTITIONS ARE NOT SPECIFIED IN OTHER AREAS OF THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, THE AREA OF WORK SHALL BE SEPARATED BY A UL DESIGN U465 ONE HOUR CONSTRUCTION PARTITION FROM FLOOR TO CEILING ABOVE THE MAIN. 5/8" G.W.B. EACH SIDE OF 3-5/8" METAL STUD FRAMING AT 16" O.C. AND 3" S.A.F.B. IN THE STUD CAVITY. ALL CONSTRUCTION PARTITION REQUIREMENTS SHALL COMPLY WITH NJAC 5:23-9.6(C) IN ALL CASES.

WHEN NOT SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS, ALL SITE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE MUNICIPALITY HAVING JURISDICTION OVER THE PROJECT AREA AND ICC/ANSI 117.1, 2017.

ALL LANDSCAPING SHALL BE INSTALLED AT SUCH TIME SO AS TO BE IN HEALTHY CONDITION AT THE TIME OF SUBSTANTIAL COMPLETION. ANY LANDSCAPE MATERIALS NOT IN SUCH CONDITION AT THE TIME OF SUBSTANTIAL COMPLETION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, GROWING SEASON, AND CONSTRUCTION SCHEDULE IN SCHEDULING INSTALLATIONS AFTER SUBSTANTIAL COMPLETION.

ALL BEARING SOIL SHALL BE UNDISTURBED OR 100% COMPACTED SOIL TO ACCOMMODATE THE INSTALLATION OF FOOTINGS, FOUNDATION WALLS, PILINGS, ETC. WHEN NOT INDICATED OTHERWISE IN THESE CONTRACT DOCUMENTS AND SPECIFICATIONS VIA SOIL REPORT, BEARING CAPACITY OF THE SOIL IN THE AREA OF WORK SHALL BE CONSIDERED TO BE 3,000 PSI WITHOUT DETRIMENTAL SETTLEMENT. IN SUCH CASES, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TESTING TO VERIFY THIS CONDITION PRIOR TO COMMENCEMENT OF WORK.

FOOTINGS SHALL BE LOCATED A MINIMUM OF 30" BELOW GRADE, UNLESS OTHERWISE INDICATED IN THESE DOCUMENTS.

IN PERFORMING ANY EARTHWORK, ALL EXCAVATED AREAS SHALL BE PROVIDED WITH TEMPORARY SUPPORTS AND/OR SHORING TO PREVENT ANY COLLAPSE. EXCAVATED SOILS, FILL, ETC. SHALL BE STORED SO AS NOT TO EXCEED THE ANGLE OF REPOSE FOR EACH TYPE. ALL BEARING SOIL, WHEN EXCAVATED AND STORED SHALL BE PROPERLY PROTECTED FROM THE ELEMENTS UNTIL BACKFILLING.

BACKFILLING SHALL BE PERFORMED IN MAX. 6" LIFTS UNLESS OTHERWISE INDICATED IN THESE DOCUMENTS. EACH LIFT SHALL BE TAMPED PRIOR TO CONTINUING WORK.

ALL MISCELLANEOUS WOOD SHALL BE MIN. NO. 1 OR BETTER DOUGLASS FIR. WOOD NAILERS, BLOCKING, ETC. IN FOUNDATION CONSTRUCTION SHALL BE TREATED TO RESIST DECAY.

ALL CRAWL SPACES AND SLAB ON-GRADE CONDITIONS SHALL BE PROVIDED WITH 15 MIL. POLYETHYLENE VAPOR BARRIER FOR THE ENTIRE FOOTPRINT AND MIN. 24" WIDE 2" RIGID INSULATION AT THE ENTIRE PERIMETER OF THE BUILDING FOOTPRINT.

ALL CONCRETE TO BE PROVIDED SHALL BE MIN. 4,000 PSI IN 28 DAYS UNLESS INDICATED OTHERWISE IN THESE DOCUMENTS.

ALL CONCRETE MASONRY UNITS WHEN LOAD-BEARING SHALL CONFORM TO ASTM C34-84. IN NON-LOAD-BEARING APPLICATIONS MASONRY UNITS SHALL COMPLY WITH C56-81.

ALL DOORS AND WINDOWS AT EXTERIOR WALLS SHALL BE PROVIDED WITH ALUM. SILL FLASHING UNDER THE ENTIRE WIDTH OF THE OPENING. AT WINDOW AREAS, FLASHING SHALL HAVE UPTURNED EDGES WITH SOLDERED CORNERS AND PITCH TO THE EXTERIOR. ALL WINDOWS AND DOORS SHALL BE PROVIDED WITH SHIM SPACES AT THE PERIMETER TO ENSURE A PLUMB AND TRUE INSTALLATION.

ALL GLAZING IN HAZARDOUS AREAS AS DEFINED IN 2406.2 SHALL BE TEMPERED GLAZED SAFETY GLASS AND SHALL BE IMPACT-RESISTANT GLAZED OPENINGS.

ALL GYPSUM WALL BOARD TO BE 5/8" FIRECODE 'C' UNLESS INDICATED OTHERWISE IN THE DOCUMENTS.

ALL BATHROOM AND KITCHEN AREAS SHALL BE PROVIDED WITH WATER-RESISTANT G.W.B., TYPICAL. ALL TILE AREAS SHALL BE PROVIDED WITH CEMENTITIOUS BOARD BACK-UP UNLESS INDICATED OTHERWISE.

IN ALL PAINTED WALL AREAS, G.W.B. SHALL BE TAPED AND SPACKLED TO MIN. LEVEL 5 FINISH.

IN ALL WALL-COVERED AREAS, G.W.B. SHALL BE TAPED AND SPACKLED TO MIN. LEVEL 4 FINISH.

UNLESS OTHERWISE NOTED, AT A MINIMUM, ALL EXPOSED LUMBER TO RECEIVE (3) COATS POLYURETHANE OVER STAIN. ALL EXPOSED GYPSUM TO RECEIVE (2) COATS LATEX OVER PRIMER. ALL METALS TO RECEIVE (2) COATS LATEX OVER APPROPRIATE METAL PRIMER.

SHOP DRAWINGS SHALL BE REQUIRED FOR ALL MILLWORK.

ALL THRESHOLDS AND OTHER FLOORING TRANSITIONS SHALL COMPLY WITH THE FLOOR LEVEL CHANGES CONSTITUTED IN ICC/ANSI 117.1, 2017.

ALL SPECIALTIES, ACCESSORIES, OR OTHER WALL-MOUNTED EQUIPMENT, FIXTURES, ETC. SHALL BE PROVIDED WITH NON-COMBUSTIBLE BLOCKING IN THE WALL CAVITY FOR SUPPORT UNLESS SPECIFICALLY NOTED OTHERWISE.

ALL ELEVATOR PITS (WHERE APPLICABLE) SHALL BE PROVIDED WITH SUMP PUMP CONNECTED TO THE BUILDING STORM WATER SYSTEM. THE PIT SHALL BE PROVIDE WITH A GALV. STEEL ACCESS LADDER MOUNTED IN AN OSHA COMPLIANT LOCATION WITH WORK LIGHT AND SWITCH ACCESSIBLE FROM THE POINT OF ENTRY. ALL ELEVATOR DOORS SHALL BE PROVIDED WITH STRUCTURAL STEEL SILL ANGLES AS REQUIRED BY THE MANUFACTURER.

ARCHITECTURAL DRAWING LIST

SHEET NUMBER	SHEET NAME	ISSUE DATE	CURRENT REVISION
G0.00	COVER SHEET	08.14.24	1
G1.01	LIFE SAFETY PLANS	08.14.24	1
G1.02	LIFE SAFETY SECOND FLOOR	08.14.24	1
G1.03	FLOOR AND WALL ASSEMBLIES	08.14.24	1
A0.00	SCHEDULES	08.14.24	1
A1.10	FIRST FLOOR PLAN	08.14.24	1
A1.11	SECOND FLOOR PLAN	08.14.24	1
A1.12	MECHANICAL ATTIC FLOOR PLAN	08.14.24	1
A1.13	ROOF PLAN	08.14.24	1
A1.20	FIRST FLOOR REFLECTED CEILING PLAN	08.14.24	1
A1.21	SECOND FLOOR REFLECTED CEILING PLAN	08.14.24	1
A2.01	ELEVATIONS	08.14.24	1
A2.02	ELEVATIONS	08.14.24	1
A3.10	BUILDING SECTIONS	08.14.24	1
A3.20	WALL SECTIONS	08.14.24	1
A3.21	WALL SECTIONS	08.14.24	1
A4.11	ENLARGED STAIR PLANS AND SECTIONS	08.14.24	1
A4.12	ENLARGED STAIR PLANS AND SECTIONS	08.14.24	1
A4.13	ENLARGED STAIR PLANS AND SECTIONS	08.14.24	1
A4.21	ENLARGED ELEVATOR PLANS AND SECTIONS	08.14.24	1
A4.31	ENLARGED PLANS AND ELEVATIONS - RECEPTION 100 AND TOILET ROOM 101	08.14.24	1
A4.32	ENLARGED FLOOR PLANS AND ELEVS - MENS LOCKER RM / RESTROOMS	08.14.24	1
A4.33	ENLARGED FLOOR PLANS AND ELEVS - WOMENS LOCKER RM / RESTROOMS	08.14.24	1
A4.34	ENLARGED FLOOR PLANS AND ELEVATIONS - BREAKROOM	08.14.24	1
A5.00	INTERIOR DETAILS	08.14.24	1
A5.01	EXTERIOR DETAILS	08.14.24	1
A5.10	ROOF DETAILS	08.14.24	1
A6.01	DOOR SCHEDULE, DOOR TYPES AND DOOR DETAILS	08.14.24	1
A6.11	WINDOW TYPES WINDOW DETAILS DOOR DETAILS	08.14.24	1
A8.10	FURNITURE, FIXTURES, AND EQUIPMENT FIRST FLOOR	08.14.24	1
A8.11	FURNITURE, FIXTURES, AND EQUIPMENT SECOND FLOOR	08.14.24	1

CIVIL DRAWING LIST

1 OF 16	TITLE SHEET	02/11/25	
2 OF 16	GENERAL NOTES	02/11/25	
3 OF 16	LEGEND	02/11/25	
4 OF 16	ESTIMATE AND DISTRIBUTION OF QUANTITIES	02/11/25	
5 OF 16	TOPOGRAPHIC OUTBOUND SURVEY	02/11/25	
6 OF 16	DEMO PLAN	02/11/25	
7 OF 16	SITE PLAN	02/11/25	
8 OF 16	GRADING AND UTILITY PLAN	02/11/25	
9 OF 16	ADA CURB RAMP DETAILS	02/11/25	
10 OF 16	ADA CURB RAMP TABLES	02/11/25	
11 OF 16	CONSTRUCTION DETAILS	02/11/25	
12 OF 16	CONSTRUCTION DETAILS	02/11/25	
13 OF 16	CONSTRUCTION DETAILS	02/11/25	
14 OF 16	SOIL EROSION AND SEDIMENT CONTROL PLAN	02/11/25	
15 OF 16	SOIL EROSION AND SEDIMENT CONTROL DETAILS	02/11/25	
16 OF 16	TRAFFIC CONTROL DETAILS	02/11/25	

STRUCTURAL DRAWING LIST

S1.0	STRUCTURAL COVER SHEET	02/10/25	
S1.1	PILE LOCATION PLAN	02/10/25	
S1.2	FOUNDATION PLAN	02/10/25	
S1.3	GROUND FLOOR AND FIRST FLOOR TOP OF SLAB AND LINTEL PLAN	02/10/25	
S1.4	SECOND FLOOR STEEL FRAMING PLAN	02/10/25	
S1.5	ROOF BEARING STEEL FRAMING PLAN	02/10/25	
S1.6	ROOF FRAMING PLAN	02/10/25	
S1.7	STAIRWELLS AND GENERATOR STEEL FRAMING PLANS	02/10/25	
S2.1	BUILDING SECTIONS	02/10/25	
S2.2	WALL SECTIONS	02/10/25	
S3.1	SECTIONS AND DETAILS	02/10/25	
S3.2	SECTIONS AND DETAILS	02/10/25	

MECHANICAL DRAWING LIST

M1.0	MECHANICAL COVER SHEET	02/13/25	
M2.1	MECHANICAL FIRST FLOOR PLAN	02/13/25	
M2.2	MECHANICAL SECOND FLOOR PLAN	02/13/25	
M2.3	MECHANICAL ROOF PLAN	02/13/25	
M4.1	MECHANICAL DETAILS	02/13/25	
M4.2	MECHANICAL DETAILS	02/13/25	
M4.3	MECHANICAL DETAILS	02/13/25	
M6.1	MECHANICAL SCHEDULES	02/13/25	
M6.2	MECHANICAL SCHEDULES	02/13/25	

PLUMBING DRAWING LIST

P2.1	PLUMBING DRAINAGE PIPING FIRST FLOOR PLAN	02/13/25	
P2.2	PLUMBING DRAINAGE PIPING SECOND FLOOR PLAN	02/13/25	
P2.3	PLUMBING DRAINAGE PIPING ROOF PLAN	02/13/25	
P3.1	PLUMBING UTILITY PIPING FIRST FLOOR PLAN	02/13/25	
P3.2	PLUMBING UTILITY PIPING SECOND FLOOR PLAN	02/13/25	
P3.3	PLUMBING UTILITY PIPING ROOF PLAN	02/13/25	
P4.1	PLUMBING SANITARY RISER DIAGRAM	02/13/25	
P4.2	PLUMBING SANITARY RISER DIAGRAM	02/13/25	
P4.3	PLUMBING SANITARY RISER DIAGRAM	02/13/25	
P4.4	PLUMBING UTILITY RISER DIAGRAM	02/13/25	
P4.5	PLUMBING STORM RISER DIAGRAM	02/13/25	
P4.6	PLUMBING NATURAL GAS RISER DIAGRAM	02/13/25	
P5.1	PLUMBING DETAILS	02/13/25	
P5.2	PLUMBING DETAILS	02/13/25	
P6.1	PLUMBING SCHEDULES	02/13/25	
FP2.1	FIRE PROTECTION FIRST FLOOR PLAN	02/13/25	
FP2.2	FIRE PROTECTION SECOND FLOOR PLAN	02/13/25	
FP2.3	FIRE PROTECTION RIDGE FLOOR PLAN	02/13/25	
FP2.4	FIRE PROTECTION TOWER RIDGE PLAN	02/13/25	
FP3.1	FIRE PROTECTION DETAILS	02/13/25	

ELECTRICAL DRAWING LIST

E1.0	ELECTRICAL COVER SHEET	02/13/25	
ES2.1	ELECTRICAL SITE PLAN	02/13/25	
E2.1	ELECTRICAL LIGHTING FIRST FLOOR PLAN	02/13/25	
E2.2	ELECTRICAL LIGHTING SECOND FLOOR PLAN	02/13/25	
E3.1	ELECTRICAL POWER FIRST FLOOR PLAN	02/13/25	
E3.2	ELECTRICAL POWER SECOND FLOOR PLAN	02/13/25	
E3.3	ELECTRICAL HVAC POWER FIRST FLOOR PLAN	02/13/25	
E3.4	ELECTRICAL HVAC POWER SECOND FLOOR PLAN	02/13/25	
E3.5	ELECTRICAL HVAC POWER ROOF PLAN	02/13/25	
E3.6	ELECTRICAL LIGHTNING ROOF PLAN	02/13/25	
E3.7	LIGHTNING PROTECTION DETAILS	02/13/25	
E4.1	ELECTRICAL SYSTEMS FIRST FLOOR PLAN	02/13/25	
E4.2	ELECTRICAL SYSTEMS SECOND FLOOR PLAN	02/13/25	
E5.1	ELECTRICAL SINGLE LINE DIAGRAM	02/13/25	
E6.1	ELECTRICAL DETAILS	02/13/25	
E7.1	ELECTRICAL SCHEDULES	02/13/25	
E7.2	ELECTRICAL SCHEDULES	02/13/25	



NEW CONSTRUCTION:
CITY OF MARGATE PUBLIC WORKS BUILDING
BENSON AND MONMOUTH AVENUES
MARGATE, NJ

OWNER: CITY OF MARGATE
DEPARTMENT OF PUBLIC WORKS
MARGATE, NJ

ARCHITECT: WILLIAM McLEES ARCHITECTURE
5 MACARTHUR BOULEVARD
SOMERS POINT, NJ 08244
CONTACT: WILLIAM McLEES, AIA
609.927.0888

CIVIL ENGINEER: REMINGTON & VERNICK ENGINEERS
2819 FIRE ROAD, FIRST FLOOR
EGG HARBOR TWP., NJ 08234
609.645.7110

MECHANICAL, PLUMBING AND ELECTRICAL ENGINEER:
REMINGTON & VERNICK ENGINEERS
2059 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
856.795.9595

STRUCTURAL ENGINEER:
REMINGTON & VERNICK ENGINEERS
232 KINGS HIGHWAY EAST
HADDONFIELD, NJ 08033
856.795.9595

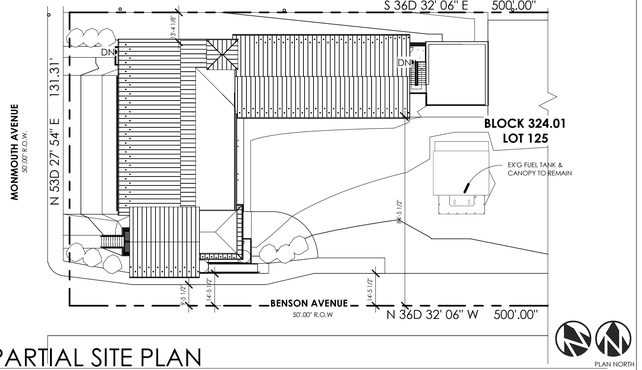
BUILDING CODE ANALYSIS

THIS WORK IS GOVERNED BY THE NEW JERSEY UNIFORM CONSTRUCTION CODE, NEW JERSEY EDITION OF THE 2021 INTERNATIONAL BUILDING CODE AND ALL OTHER APPLICABLE SUBCODES AS ADOPTED THEREIN. THIS WORK SHALL QUALIFY AS ***NEW CONSTRUCTION*** UNDER THE REQUIREMENTS AND DEFINITIONS OF THE NEW JERSEY U.C.C.

		ENCLOSED
TOTAL BUILDING AREAS:	FIRST FLOOR:	6,731 S.F.
	SECOND FLOOR:	5,947 S.F.
	TOTAL:	12,678 S.F.
BUILDING FOOTPRINT:		8,279 S.F.
USE GROUP:		B
CONSTRUCTION CLASS:		2B
TOTAL OCCUPANT LOAD:		88



SITE LOCATION
1/8" = 1'-0"



PARTIAL SITE PLAN
1/32" = 1'-0"
REFER TO CIVIL ENGINEERS DRAWINGS FOR FULL EXTENT OF SITE IMPROVEMENTS, TYPICAL

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NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

COVER SHEET

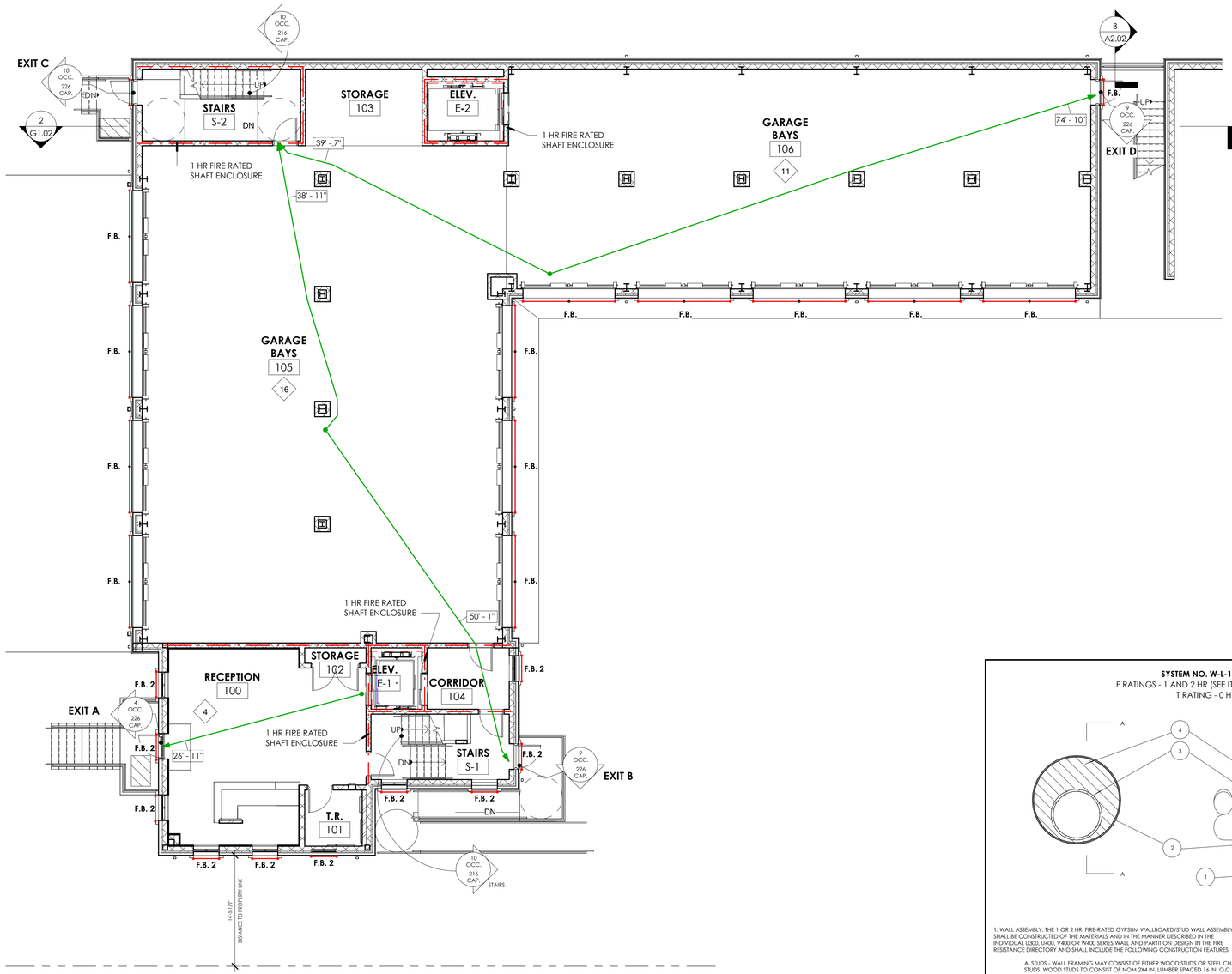
Scale	As indicated
Drawn by	DAD
Date	08.14.24

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Comission no. 24022M

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1 FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

PLAN NORTH

FLOOD RESISTANT BUILDING SYSTEMS NOTES

GENERAL INSTALLATION NOTES FOR EQUIPMENT IN THE FLOOD PLAIN

ALL UTILITIES AND ATTENDANT EQUIPMENT SHALL BE LOCATED MIN. +3 FEET ABOVE THE BASE FLOOD ELEVATION UNLESS SPECIFICALLY NOTED OTHERWISE IN THESE DOCUMENTS. REFER TO THE CODE ANALYSIS SECTION OF THESE DOCUMENTS FOR THE BASE FLOOD ELEVATION FOR THE SITE.

MECHANICAL EQUIPMENT INSTALLATIONS BELOW THE BASE FLOOD ELEVATION

FUEL SUPPLY LINES EXTENDING BELOW THE ELEVATION SPECIFIED BY THE JURISDICTION HAVING AUTHORITY (JHA) SHALL BE EQUIPPED WITH A FLOAT OPERATED AUTOMATIC CONTROL VALVE TO SHUT OFF FUEL SUPPLY WHEN FLOODWATERS RISE ABOVE THE ELEVATION OF THE SUPPLY LINE.

ALL MECHANICAL EQUIPMENT SHALL BE LOCATED AT OR ABOVE THE MINIMUM ELEVATION INDICATED BY THE JHA, BUT IN NO CASE LOCATED LOWER THAN THE BASE FLOOD ELEVATION (BFE)+2.

INSTALLATIONS REQUIRING THE DUCTWORK TO BE INSTALLED BELOW BFE+2 SHALL BE PROVIDED WITH MOISTURE RESISTANT INSULATION AND INSTALLED IN A WATER-RESISTANT ENCLOSURE AS DETAILED HEREIN.

ELECTRICAL EQUIPMENT INSTALLATIONS BELOW THE BASE FLOOD ELEVATION

ALL ELECTRICAL SERVICE CABLES, CONDUITS, ETC BELOW THE DESIGN FLOOD ELEVATION SHALL BE WATERPROOFED OF CONFORM TO THE PROVISIONS OF NFPA 70 AND THE NATIONAL ELECTRICAL CODE FOR WET LOCATIONS.

ALL EXPOSED SERVICE CABLES, CONDUITS, ETC, SHALL BE ANCHORED TO WITHSTAND THE FORCES OF FLOOD-RELATED LATERAL LOADS, THE EFFECTS OF BUOYANCY AND/OR HYDROSTATIC FORCES AND/OR THE IMPACTS OF POTENTIAL FLOOD BORNE DEBRIS. ALL SUCH CONDUITS AND CABLES SHALL BE HOUSED IN A WATERPROOF ENCLOSURE.

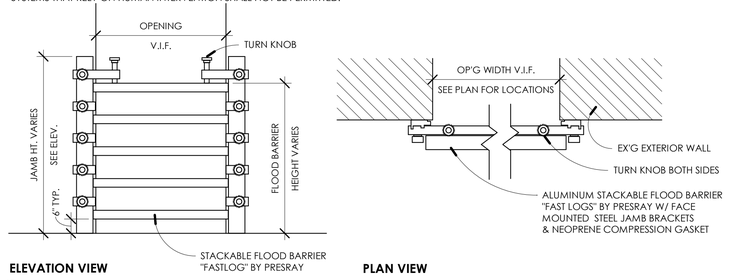
ALL CONDUITS, ETC. SHALL BE SITUATED SUCH THAT WATER DRAINS AWAY FROM PANELBOARDS, CONTROLLERS, SWITCHES, ETC. IN ACCORDANCE WITH NFPA 70 AND THE NATIONAL ELECTRICAL CODE.

ALL CIRCUITS, SWITCHES, RECEPTACLES, FIXTURES, ETC LOCATED BELOW THE DESIGN FLOOD ELEVATION SHALL BE ENERGIZED FROM A COMMON DISTRIBUTION PANEL, LOCATED ABOVE AND ACCESSIBLE FROM THE DESIGN ELEVATION SPECIFIED.

PLUMBING EQUIPMENT INSTALLATIONS BELOW THE BASE FLOOD ELEVATION

WHERE INSTALLED UNDERGROUND, PLUMBING SYSTEMS SHALL BE BURIED TO A SUFFICIENT DEPTH AND ANCHORED SO AS TO PREVENT MOVEMENT OR SEPARATION. WHEN EXPOSED, SYSTEMS SHALL BE INSTALLED AND ANCHORED TO WITHSTAND THE FORCES OF FLOOD-RELATED LATERAL LOADS, THE EFFECTS OF BUOYANCY AND/OR HYDROSTATIC FORCES AND/OR THE IMPACTS OF POTENTIAL FLOOD BORNE DEBRIS.

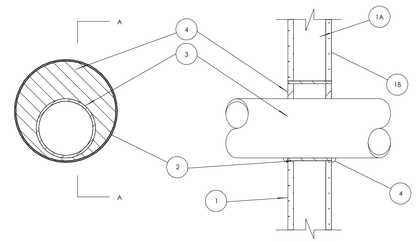
WHERE EXISTING CONDITIONS REQUIRE INSTALLATIONS BELOW THE DESIGN FLOOD ELEVATION, SUCH INSTALLATIONS SHALL BE PROTECTED WITH BACKWATER VALVES OR OTHER AUTOMATIC BLACKFLOW DEVICES OR EACH LINE WITH OPENINGS BELOW THE DESIGN FLOOD ELEVATION. REDUNDANT DEVICES OR SYSTEMS THAT RELY ON HUMAN INTERVENTION SHALL NOT BE PERMITTED.



ELEVATION VIEW **PLAN VIEW**

2 FLOOD BARRIER DETAIL
NOT TO SCALE

SYSTEM NO. W-L-1164
F RATINGS - 1 AND 2 HR (SEE ITEMS 1 AND 4)
T RATING - 0 HR



1. WALL ASSEMBLY: THE 1 OR 2 HR. FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400, V400 OR W400 SERIES WALL AND PARTITION DESIGN IN THE FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2X4 IN. LUMBER SPACED 16 IN. O.C. STEEL TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. O.C. WHEN STEEL STUDS ARE USED AND THE DIA. OF OPENING EXCEEDS THE WIDTH OF THE STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW-ATTACHED TO THE STEEL STUDS AT EACH END, THE FRAMED OPENING IN THE WALL SHALL BE 4 TO 6 IN. WIDER AND 4 TO 6 IN. HIGHER THAN THE DIAMETER OF THE PENETRATING ITEM SUCH THAT, WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 TO 3 IN. CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.

B. GYPSUM BOARD* - THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX. DIA. OF OPENING IN STEEL STUD WALLS IN 32 IN. MAX. DIA. OF OPENINGS IN WOOD STUD WALLS IS 14-1/2 IN.

THE HOURLY F.H RATINGS OF THIRE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH ITS INSTALLED.

2. STEEL SLEEVE - NOM. 32 IN. DIA. SCHEDULE 40 (OR HEAVIER) STEEL PIPE SLEEVE FRICTION FIT IN NOM. 32 IN. DIA. CIRCULAR OPENING CUT THROUGH GYPSUM BOARD LAYERS. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL.

3. THROUGH-PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND THE STEEL SLEEVE SHALL BE MIN. OF 0 IN. (POINT CONTACT) TO MAX. 1-7/8 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE - NOM. 30 IN. DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE

B. IRON PIPE - NOM. 30 IN. DIA. (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.

C. CONDUIT - NOM. 4 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.

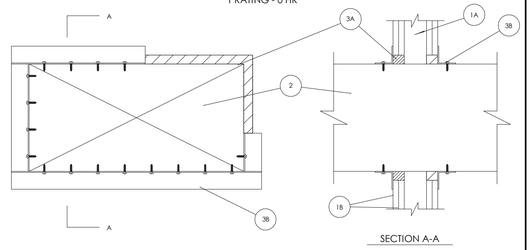
D. COPPER TUBING - NOM. 6 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

E. COPPER PIPE - NOM. 6 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

4. FILL, VOID OR CAVITY MATERIAL*- SEALANT - MIN. 5/8 IN. AND 1-1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY FOR 1 OR 2 HR. RATED WALLS, RESPECTIVELY. MIN. 1/2 IN. DIA. BEAD OF CAULK APPLIED TO THE PENETRANT/GYPSUM BOARD INTERFACE AT THE POINT CONTACT LOCATION ON BOTH SIDES OF WALL.

HILTI CONSTRUCTION CHEMICALS, DIV. OF HILTI INC. - FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT

SYSTEM NO. W-L-7040
F RATINGS - 1 AND 2 HR (SEE ITEMS 1 AND 3)
T RATING - 0 HR



1. WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400, V400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2X4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. ADDITIONAL FRAMING MEMBERS SHALL BE USED TO COMPLETELY FRAME AROUND OPENING.

B. GYPSUM BOARD* - NOM 5/8 IN. THICK WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, NUMBER OF LAYERS AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN NUMBER. MAX AREA OF OPENING IS 1300 IN². WITH THE DIMENSION OF 50 IN. THE HOURLY F AND FH RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. STEEL DUCT - NOM. 24 IN. BY 48 IN. (OR SMALLER) NO. 24 GAUGE (OR HEAVIER) GALV STEEL DUCT TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 0 IN. (POINT CONTACT) TO A MAX 2 IN. DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

3. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS FLUSH WITH BOTH SURFACES OF WALL, AT POINT CONTACT LOCATION, A MIN 1/2 IN. DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED TO THE WALL/DUCT INTERFACE ON BOTH SIDES OF WALL.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI, INC - FS-ONE SEALANT, FS-ONE MAX INTUMESCENT SEALANT, CP6015 ELASTOMERIC FIRESTOP SEALANT OR CP606 FLEXIBLE SEALANT

B. STEEL RETAINING ANGLE - No. 18 MSG GALV. STEEL ANGLES CUT TO FIT CONTOUR OF DUCT WITH A 2 IN. OVERLAP ON THE DUCT AND A MIN. 1 IN. OVERLAP ON THE GYPSUM BOARD ASSEMBLY ON BOTH SURFACES OF WALL 2 IN. LEG OF ANGLE SECURED TO DUCT WITH MIN. No. 8 BY 3/4 IN. LONG SHEET METAL SCREWS, SPACED A MAX. OF 6 IN. O.C. WHEN BEAD FILL MATERIAL IS USED AT JOINT CONTACT LOCATIONS. ANGLES SHALL BE INSTALLED PRIOR TO FULL MATERIAL CURING.

*INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR cUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR cUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

PENETRATION DETAILS - RATED
1 1/2" = 1'-0"

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William McLees Architecture, LLC

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

LIFE SAFETY PLANS

Scale	As indicated
Drawn by	DAD
Date	08.14.24

G1.01

Comission no. 24022M

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BUILDING CODE ANALYSIS

THIS WORK IS GOVERNED BY THE NEW JERSEY UNIFORM CONSTRUCTION CODE, NEW JERSEY EDITION OF THE 2021 INTERNATIONAL BUILDING CODE, AND ALL OTHER APPLICABLE SUBCODES AS ADOPTED THEREIN. THIS WORK SHALL QUALIFY AS **NEW CONSTRUCTION** UNDER THE REQUIREMENTS AND DEFINITIONS OF THE NEW JERSEY U.C.C.

INTERNATIONAL BUILDING CODE REVIEW

SECTION 3

USE GROUP:	BUSINESS	CIVIC ADMINISTRATION
	S-2	PARKING GARAGE

SECTION 4

SECTION 406 MOTOR-VEHICLE-RELATED OCCUPANCIES
406.2.1 AUTOMATIC GARAGE DOOR OPENERS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL325.
406.2.2 THE CLEAR HEIGHT OF THE FLOOR SHALL NOT BE LESS THAN 7 FEET.
406.2.3 ACCESSIBLE PARKING SPACES, ACCESS AISLES AND VEHICULAR ROUTES SHALL BE PROVIDED.
406.2.4 FLOOR SURFACES SHALL BE OF CONCRETE OR SIMILAR APPROVED NONCOMBUSTIBLE AND NONABSORBENT MATERIALS.
406.6.2 A MECHANICAL VENTILATION AND EXHAUST SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE.
406.6.3 AN ENCLOSED PARKING GARAGE SHALL BE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.

SECTION 5

		ENCLOSED
TOTAL BUILDING AREAS	FLOOR 1:	6,646 SF
	FLOOR 2:	5,876 SF
	TOTAL:	12,522 SF
BUILDING FOOTPRINT:		6,646 SF
CONSTRUCTION CLASS:		TYPE II - B

SECTION 6

FIRE RESISTANCE RATING REQUIREMENTS		
PRIMARY STRUCTURAL FRAME:		-
BEARING WALLS		
	EXTERIOR:	0
	INTERIOR:	0
NONBEARING WALLS AND PARTITIONS		
	INTERIOR:	1
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS:		[...]
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS:		[...]
FIRE SEPARATION DISTANCE:		[...]

SECTION 7

705.2 CORNICES, EAVE OVERHANGS, EXTERIOR BALCONIES AND SIMILAR PROJECTIONS SHALL BE OF APPROVED MATERIALS.
713.4 SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN **1 HOUR** WHEN CONNECTING LESS THAN 4 STORIES.

SECTION 8

INTERIOR FINISH CLASSIFICATIONS

GROUP	INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS, AND EXIT PASSAGES	CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND EXIT ACCESS RAMPS	ROOM AND ENCLOSED SPACES
B	B	C	C
S-2	C	C	C

SECTION 9

AUTOMATIC FIRE SUPPRESSION SHALL BE PROVIDE IN ACCORDANCE WITH 903.2.10
PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDE (2) PER FLOOR
A MANUAL FIRE ALARM SYSTEM SHALL BE PROVIDED

SECTION 10

OCCUPANT LOAD	101
FIRST FLOOR MIN. NUMBER OF EXITS:	2
SECOND FLOOR MIN. NUMBER OF EXITS:	2
MINIMUM STAIR WIDTH:	36"
ALL EXITS SHALL BE PROTECTED WITH A FIRE BARRIER IN ACCORDANCE WITH 1023.2	
EXIT ACCESS TRAVEL DISTANCE:	75'
CORRIDOR WIDTH:	72"(ACTUAL)
CORRIDOR FIRE RESISTANCE RATING:	1

SECTION 11

VERTICAL ACCESSIBLE ROUTE IS PROVIDED BY: ELEVATOR
MIN (1) TOILET, LAV, AND SHOWER SHALL BE PROVIDED AS ACCESSIBLE
KITCHEN AREAS SHALL BE ACCESSIBLE

SECTION 12

MECHANICAL VENTILATION IS PROVIDED IN ACCORDANCE WITH IMC

TOTAL PERCENTAGE OF GLAZING:	-
ALL CEILINGS AREAS SHALL BE MINIMUM:	7'-0"
STAIR CEILING:	6'-8"

SECTION 13

SEE LIFE SAFETY DRAWINGS FOR THERMAL ENVELOPE REQUIREMENTS.

SECTION 14

REFER TO WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.

SECTION 15

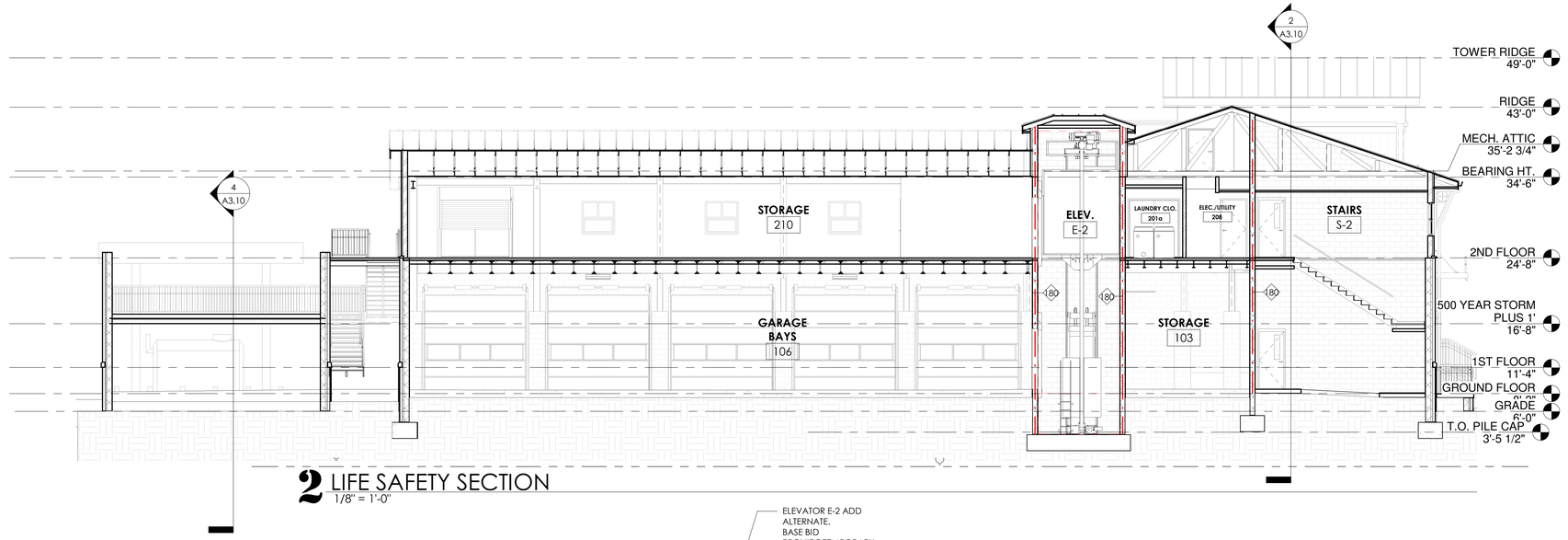
ALL ROOF AREAS TO BE MINIMUM CLASS 'B'.

SECTION 16

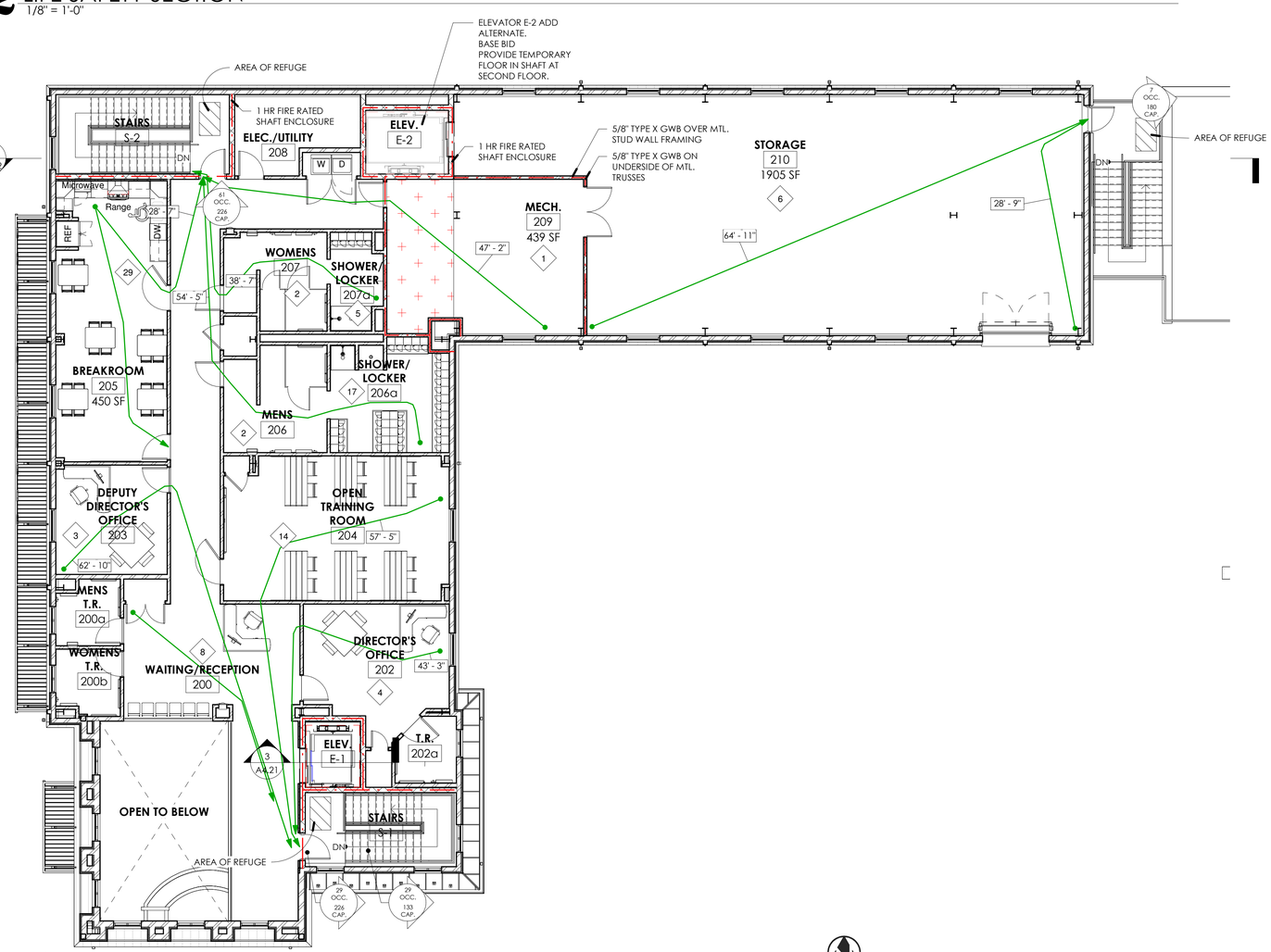
DESIGN LIVE LOADS

	REQUIRED	ACTUAL
ASSEMBLY AREAS:	100 PSF	100 PSF
BUSINESS/OFFICE:	50 PSF	100 PSF
STORAGE AREAS:	125 PSF	250 PSF
WIND LOADS:		140 MPH
EXPOSURE CATEGORY:		C
RISK CATEGORY:		IV

BUILDING CODE ANALYSIS
12" = 1'-0"



2 LIFE SAFETY SECTION
1/8" = 1'-0"



1 SECOND FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

PLAN NORTH

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

LIFE SAFETY SECOND FLOOR

Scale	As indicated
Drawn by	DAD
Date	08.14.24

G1.02

Comission no. 24022M

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PARTITION NOTES:

1. GC TO PROVIDE DRAFTSTOPPING AT THE INTERSECTIONS OF ALL CONCEALED HORIZONTAL AND VERTICAL SPACES, IN ACCORDANCE WITH SECTION 7 OF THE CURRENT EDITION OF THE NJ INTERNATIONAL BUILDING CODE.

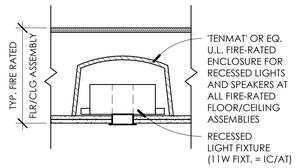
2. PROVIDE CEMENT BOARD IN ALL SHOWER ENCLOSURES, WALLS WITH PLUMBING FIXTURES, AREAS TO BE TILED, AND OTHER WET AREAS.

3. PROVIDE WATER RESISTANT GYPSUM WALLBOARD AND PRESSURE TREATED BLOCKING IN ALL AREAS BELOW FLOOD ELEVATION.

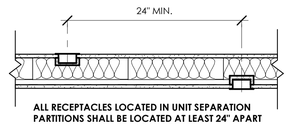
4. PENETRATIONS INTO FIRE RATED ASSEMBLIES SHALL BE PROPERLY FIRESTOPPED IN ACCORDANCE WITH THE DETAILS PROVIDED HEREIN AND AS REQ'D BY NJ IBC SECTION 7. ALL SUCH ASSEMBLIES SHALL MEET OR EXCEED THE RATINGS OF THE PARTITIONS WHICH THEY PENETRATE.

5. ELECTRICAL BOXES IN DEMISING WALLS SHALL BE JOGGED MINIMUM 24" AND ONE STUD BAY. REFER TO RECEPTACLE SPACING DETAIL.

6. PROVIDE DRAFTSTOPPING IN ATTIC SO THAT HORIZONTAL AREAS DO NOT EXCEED 3,000 S.F. PER 718.4 IN IBC 2021.

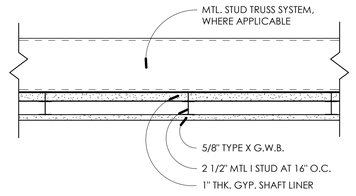


5 FIRE-RATED LIGHT/SPKR ENCL.
1" = 1'-0"

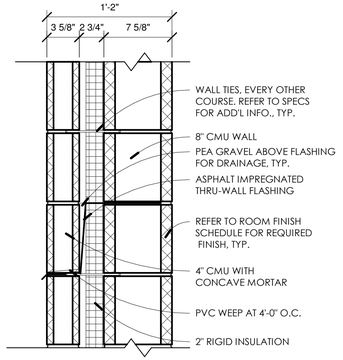


ALL RECEPTACLES LOCATED IN UNIT SEPARATION PARTITIONS SHALL BE LOCATED AT LEAST 24" APART WITH MIN. 1 OPEN STUD BAY BETWEEN.

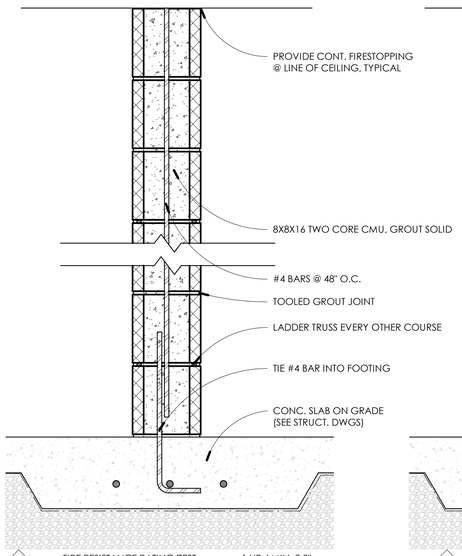
4 RECEPTACLE SPACING
1" = 1'-0"



3 RATED ASSEMBLY - ICBO 3579
1 1/2" = 1'-0"

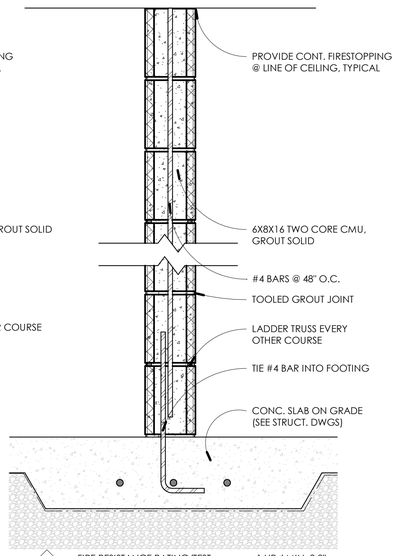


2 MASONRY CAVITY WALL
1 1/2" = 1'-0"



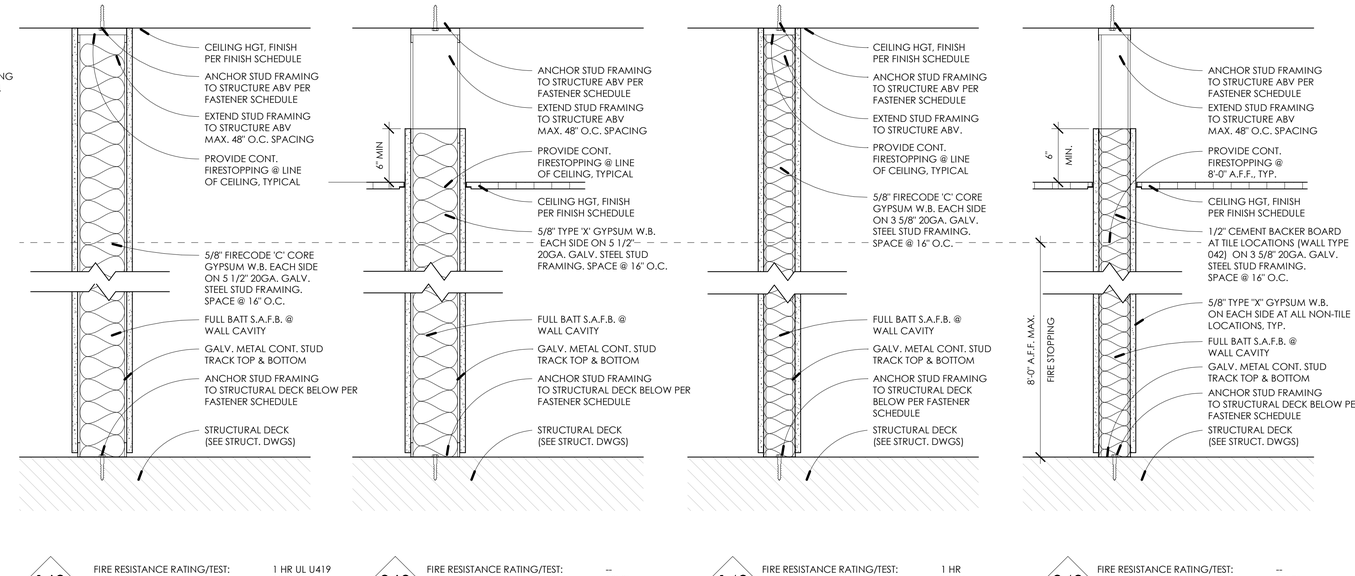
080 FIRE RESISTANCE RATING/TEST: 1 HR / MIN. 2.8" NOMINAL THICKNESS
NON-BEARING LIMITING HGT: --
STC RATING: --

180 WALL TYPE 180 - FIRE RATED - SIM TO



060 FIRE RESISTANCE RATING/TEST: 1 HR / MIN. 2.8" NOMINAL THICKNESS
NON-BEARING LIMITING HGT: --
STC RATING: --

160 WALL TYPE 160 - FIRE RATED - SIM TO



160 FIRE RESISTANCE RATING/TEST: 1 HR UL U419
NON-BEARING LIMITING HGT: 12'-3"
STC RATING: 47

060 FIRE RESISTANCE RATING/TEST: --
NON-BEARING LIMITING HGT: 12'-3"
STC RATING: 41

140 FIRE RESISTANCE RATING/TEST: 1 HR
NON-BEARING LIMITING HGT: 12'-3"
STC RATING: 47

040 FIRE RESISTANCE RATING/TEST: --
NON-BEARING LIMITING HGT: 12'-3"
STC RATING: 47

1 PARTITION TYPES
1 1/2" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

FLOOR AND WALL ASSEMBLIES

Scale	As indicated
Drawn by	DAD
Date	08.14.24

G1.03

Comission no. 24022M

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ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	CEILING FINISH	WALL FINISH				CASEWORK			COMMENTS
					NORTH	EAST	SOUTH	WEST	BASE CABINETS	COUNTERTOP	UPPER CABINETS	
100	RECEPTION	CER. TILE	CER. TILE	GWB	PT00	PT00	PT00	PT00	LAM10	SS00	-	
101	T.R.	CER. TILE	CER. TILE	ACT	PT00	PT00	PT00	PT00	-	-	-	
102	STORAGE	CER. TILE	CER. TILE	GWB	PT00	PT00	PT00	PT00	-	-	-	
103	STORAGE	EPOXY	VCB	EXP. PTD.	PT70	PT70	PT70	PT70	-	-	-	
104	CORRIDOR	EPOXY	VCB	ACT	PT00	PT00	PT00	PT00	-	-	-	
105	GARAGE BAYS	EPOXY	EPOXY	EXP. PTD.	PT70	PT70	PT70	PT70	-	-	-	
106	GARAGE BAYS	EPOXY	EPOXY	EXP. PTD.	PT70	PT70	PT70	PT70	-	-	-	
200	WAITING/RECEPTION	LVT	VCB	ACT	PT00	PT00	PT00	PT00	-	-	-	
200a	MENS T.R.	CER. TILE	CER. TILE	ACT	PT00	PT00	PT00	PT00	-	-	-	
200b	WOMENS T.R.	CER. TILE	CER. TILE	ACT	PT00	PT00	PT00	PT00	-	-	-	
200c	TECH.	LVT	VCB	ACT	PT00	PT00	PT00	PT00	-	-	-	
201	CORRIDOR	LVT	VCB	ACT	PT00	PT00	PT00	PT00	-	-	-	
201a	LAUNDRY CLO.	LVT	VCB	GWB	PT00	PT00	PT00	PT00	-	-	-	
201b	JANITOR CLOSET	LVT	VCB	GWB	PT00	PT00	PT00	PT00	-	-	-	
202	DIRECTOR'S OFFICE	CARPET	VCB	ACT	PT00	PT00	PT00	PT00	-	-	-	
202a	T.R.	CER. TILE	CER. TILE	ACT	PT00	PT00	PT00	PT00	-	-	-	
202b	CLOSET	CARPET	VCB	GWB	PT00	PT00	PT00	PT00	-	-	-	
203	DEPUTY DIRECTOR'S OFFICE	CARPET	VCB	ACT	PT00	PT00	PT00	PT00	-	-	-	
204	OPEN TRAINING ROOM	LVT	VCB	ACT	PT00	PT00	PT00	PT00	-	-	-	
204a	CLOSET	LVT	VCB	GWB	PT00	PT00	PT00	PT00	-	-	-	
205	BREAKROOM	LVT	VCB	ACT	PT00	PT00	PT00	PT00	LAM10	SS00	LAM10	
206	MENS	CT10	CER. TILE	ACT	CT51	CT51	CT51	CT51	-	SS00	-	
206a	SHOWER/ LOCKER	CT10	CER. TILE	ACT	CT51	CT51	CT51	CT51	-	MAPLE	-	LOCKER BASES TO RECEIVE MAPLE TOP
207	WOMENS	CT10	CER. TILE	ACT	CT51	CT51	CT51	CT51	-	SS00	-	
207a	SHOWER/ LOCKER	CT10	CER. TILE	ACT	CT51	CT51	CT51	CT51	-	MAPLE	-	LOCKER BASES TO RECEIVE MAPLE TOP
208	ELEC./UTILITY	CONCRETE	VCB	EXP. PTD.	PT00	PT00	PT00	PT00	-	-	-	
209	MECH.	CONCRETE	VCB	EXP. PTD.	PT00	PT00	PT00	PT00	-	-	-	
210	STORAGE	CONCRETE	VCB	EXP. PTD.	PT00	PT00	PT00	PT00	-	-	-	

LIST OF FINISHES

TAG	DESCRIPTION	MFGR	PRODUCT	LOCATION	NOTES
CC00	CAST IN PLACE CONCRETE	--	TBD		
CPT00	CARPET TILE	MILLIKEN	TO BE DETERMINED - 1MX1M TILE		
CR00	CHAIR RAIL	METRIE	TBD		
CT10	CERAMIC TILE	TILEBAR	TBD		
CT51	CERAMIC TILE	TBD	TBD		
CT52	CERAMIC TILE	TBD	TBD		
LAM10	LAMINATE	WILSONART	TBD	BREAK ROOM CABINETS	WOOD VENEER
MA00	MODULAR ARTS ACCENT	MODULAR ARTS	TO BE DETERMINED		
PT00	PAINT	SHERWIN WILLIAMS	PRIME & (2) COATS INTERIOR LATEX-COLOR BY ARCH	CEILING/ COMMERCIAL	
PT70	PAINT	ZOLOTONE	PRIME & (2) COATS ACRYLIC-COLOR BY ARCH	MASONRY WALLS	
SS00	SOLID SURFACE	VADARA QUARTZ	PHOENIX SKY-3CM	KITCHEN COUNTERS	
WC10	VINYL WALL COVERING	MITCHELL BLACK WALLPAPER AND TEXTILES	TBD		
WDP10	ENGINEERED WOOD FLOORING	--	TBD	ALL RES. SPACES UNLESS OTHERWISE NOTED	
WOM-1	WALK-OFF MAT	MILLIKEN	TBD		

APPLIANCE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	DIMENSIONS (W x H x D)	NOTE
A-1	French Door Refrigerator with Ice and Water Dispenser	GE PROFILE	PFE28KYNFS	69 7/8"Hx35 3/4"Wx36 1/4"D	FINGERPRINTLESS STAINLESS STEEL FINISH
A-2	GAS RANGE	GE PROFILE	PGS930YPFS	36 1/2"Hx30"Wx29 1/2"D	FINGERPRINTLESS STAINLESS STEEL FINISH
A-3	30in Pyramidal Chimney Range Hood	Broan-NuTone	EW4830SS		STAINLESS STEEL
A-4	DISHWASHER	GE PROFILE	PDT795SYVFS	34"Hx23 3/4"Wx24"D	FINGERPRINTLESS STAINLESS STEEL FINISH
A-5	TOP LOAD WASHER	GE PROFILE	PTW700BPTDG	43 7/8"Hx27 7/8"Wx28"D	5.4 CUBIC FEET CAPACITY, DIAMOND GRAY FINISH
A-6	DRYER	GE PROFILE	PTD70EBPTDG	43 7/8"Hx27"Wx31"D	7.4 CUBIC FEET CAPACITY, DIAMOND GRAY FINISH
A-7	COUNTER TOP MICROWAVE	GE PROFILE	PCST22U1WSS	14"Hx24 1/8"Wx19 3/4"D	FINGERPRINTLESS STAINLESS STEEL FINISH

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE

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SCHEDULES

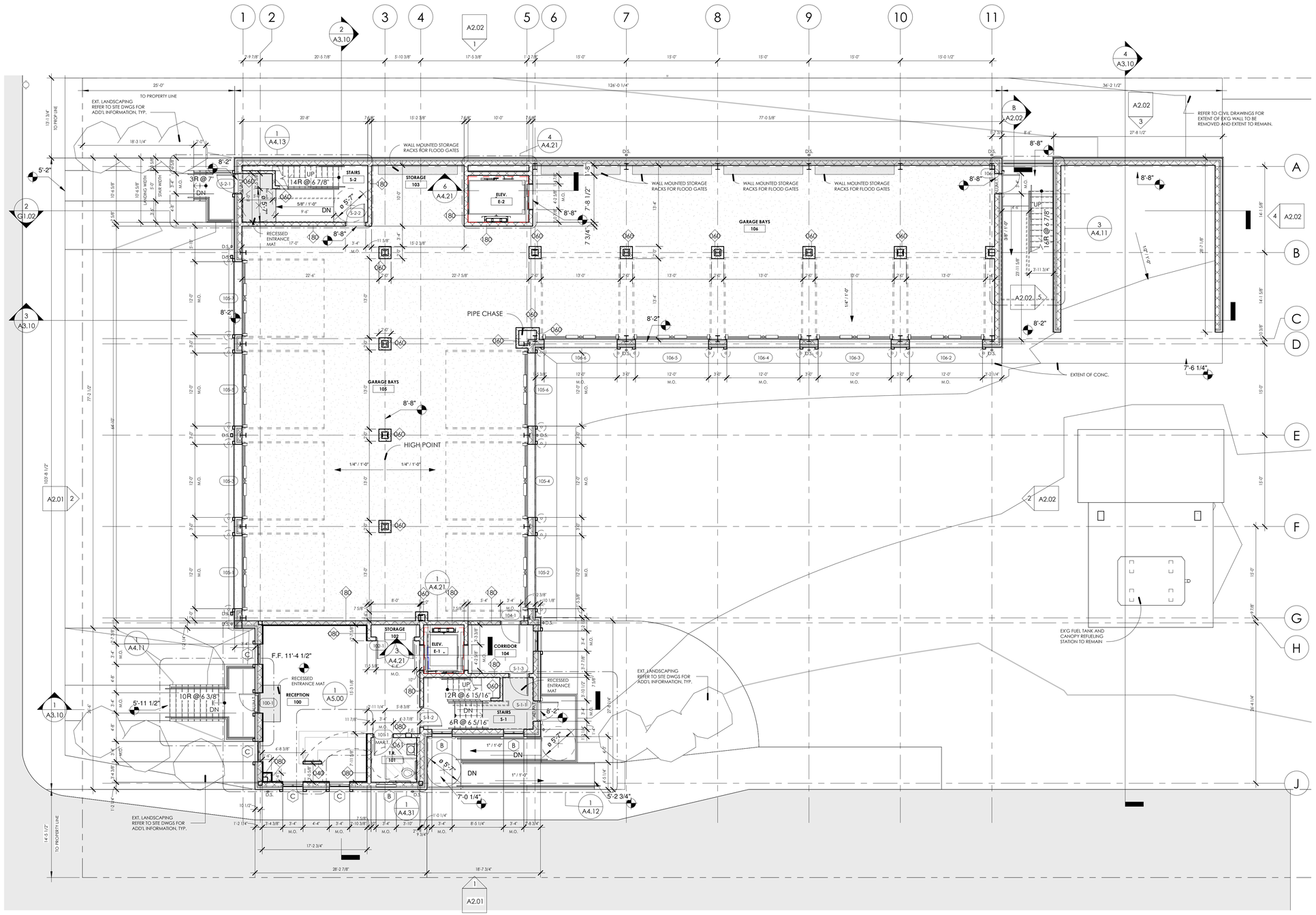
Scale
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Date 08.14.24

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1 FIRST FLOOR PLAN

1/8" = 1'-0"

NOTES:
1. REFER TO CIVIL DRAWINGS FOR FULL EXTENT OF SITE WORK AND GRADING. COORDINATE GRADES WITH FINISH FLOOR ELEVATIONS FOR ALL EXTERIOR LANDINGS, RAMPS AND STAIRS.
2. REFER TO EXTERIOR ELEVATIONS FOR EXTENT OF VENEER TYPES AND LOCATIONS.

PLAN NORTH

FLOOR PLAN LEGEND

- DATUM TAG (HEIGHT ABOVE NAVD 88)
- WALL TYPE TAG (WALL WIDTH / FIRE RATING / TYPE)
- DOOR TYPE TAG
- WINDOW TYPE TAG
- ROOM TAG (ROOM NAME / ROOM NUM / OCC OR SF)
- SECTION (DRAWING / SHEET)
- ENLARGED VIEW (DRAWING / SHEET)
- MASONRY PARTITION
- FRAMED PARTITION
- HINGED DOOR
- DOUBLE DOOR
- DOUBLE ACTING DOOR
- WINDOW WALL
- CASEMENT WINDOW
- DIMENSION (TO STRUCTURE)
- DIMENSION (TO FINISH FACE)

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
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No.	Description	Date
1	RELEASED FOR BID	07.14.26

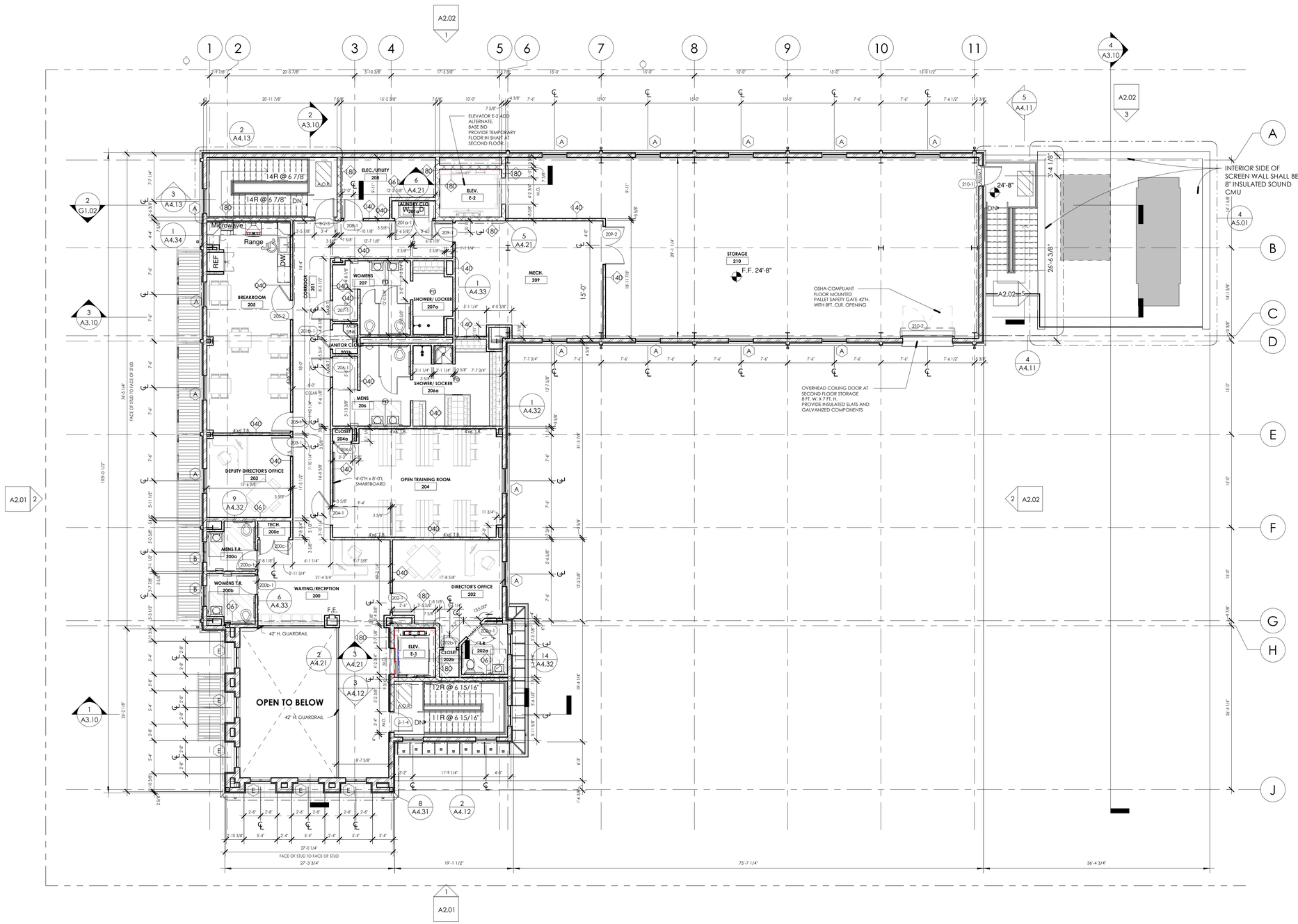
FIRST FLOOR PLAN

Scale	As indicated
Drawn by	DAD
Date	08.14.24

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1 SECOND FLOOR PLAN

1/8" = 1'-0"

PLAN NORTH

FLOOR PLAN LEGEND

- DATUM TAG (HEIGHT ABOVE NAVD 88)
- WALL TYPE TAG (WALL WIDTH / FIRE RATING / TYPE)
- DOOR TYPE TAG
- WINDOW TYPE TAG
- ROOM TAG (ROOM NAME / ROOM NUM / OCC OR SF)
- SECTION (DRAWING / SHEET)
- ENLARGED VIEW (DRAWING / SHEET)
- MASONRY PARTITION
- FRAMED PARTITION
- HINGED DOOR
- DOUBLE DOOR
- DOUBLE ACTING DOOR
- WINDOW WALL
- CASEMENT WINDOW
- DIMENSION (TO STRUCTURE)
- DIMENSION (TO FINISH FACE)

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NEW CONSTRUCTION

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BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

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No.	Description	Date
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SECOND FLOOR PLAN

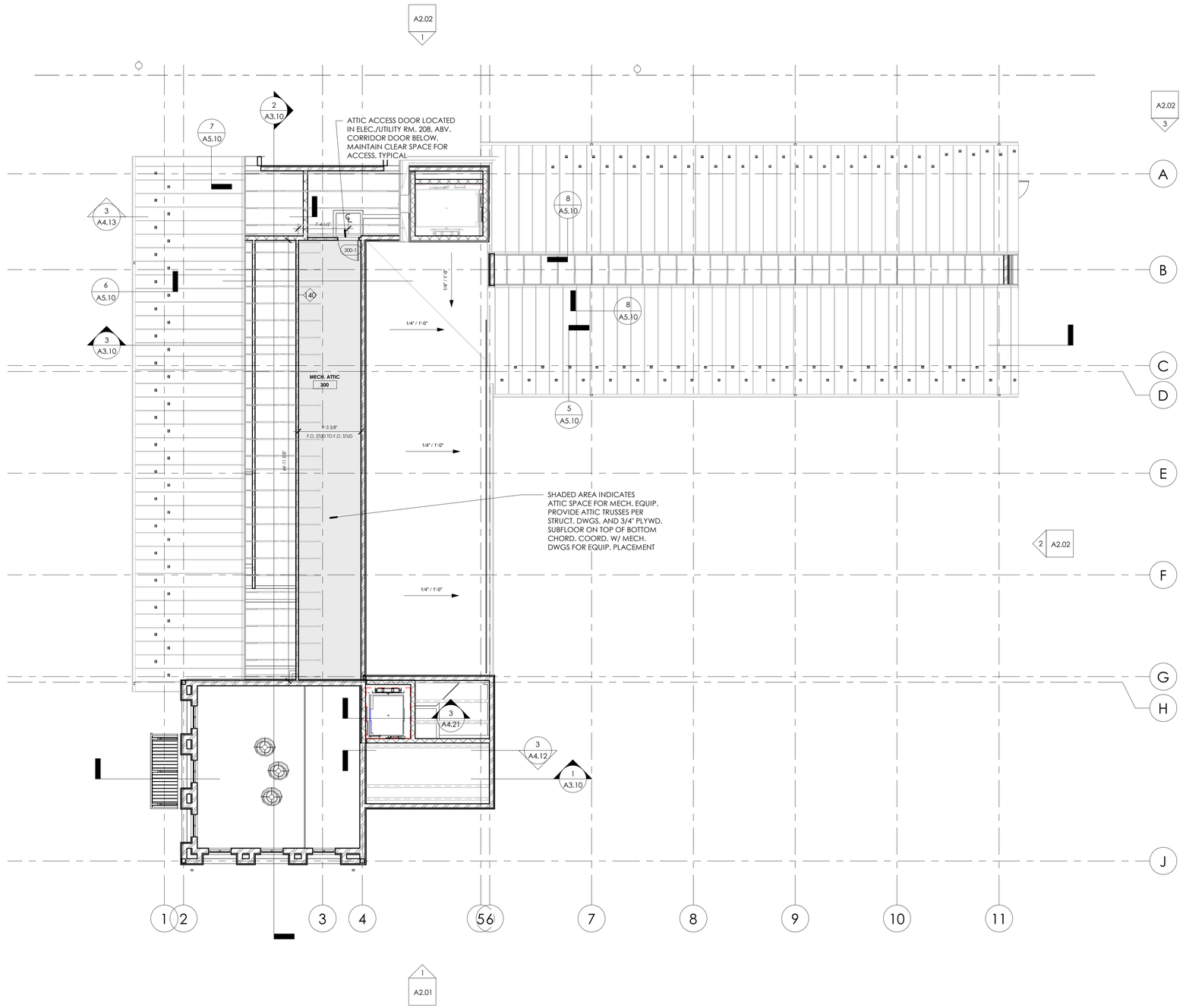
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1 MECHANICAL ATTIC FLOOR PLAN
1/8" = 1'-0"

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MECHANICAL ATTIC FLOOR PLAN

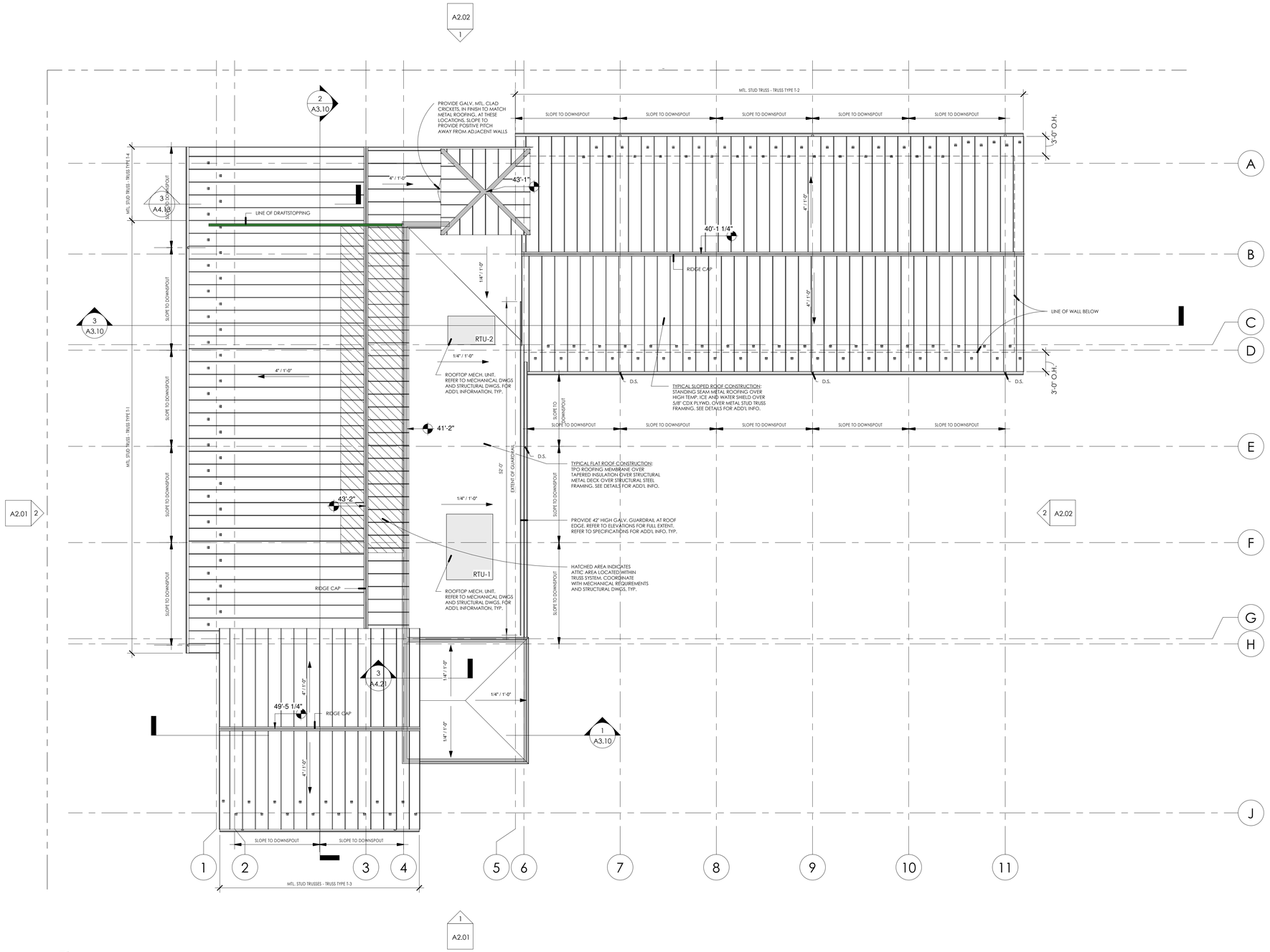
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1 ROOF PLAN
1/8" = 1'-0"

PLAN NORTH

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LOT 125

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ROOF PLAN

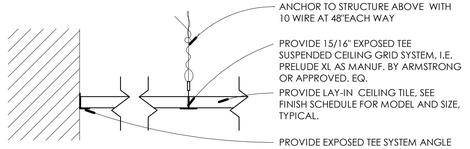
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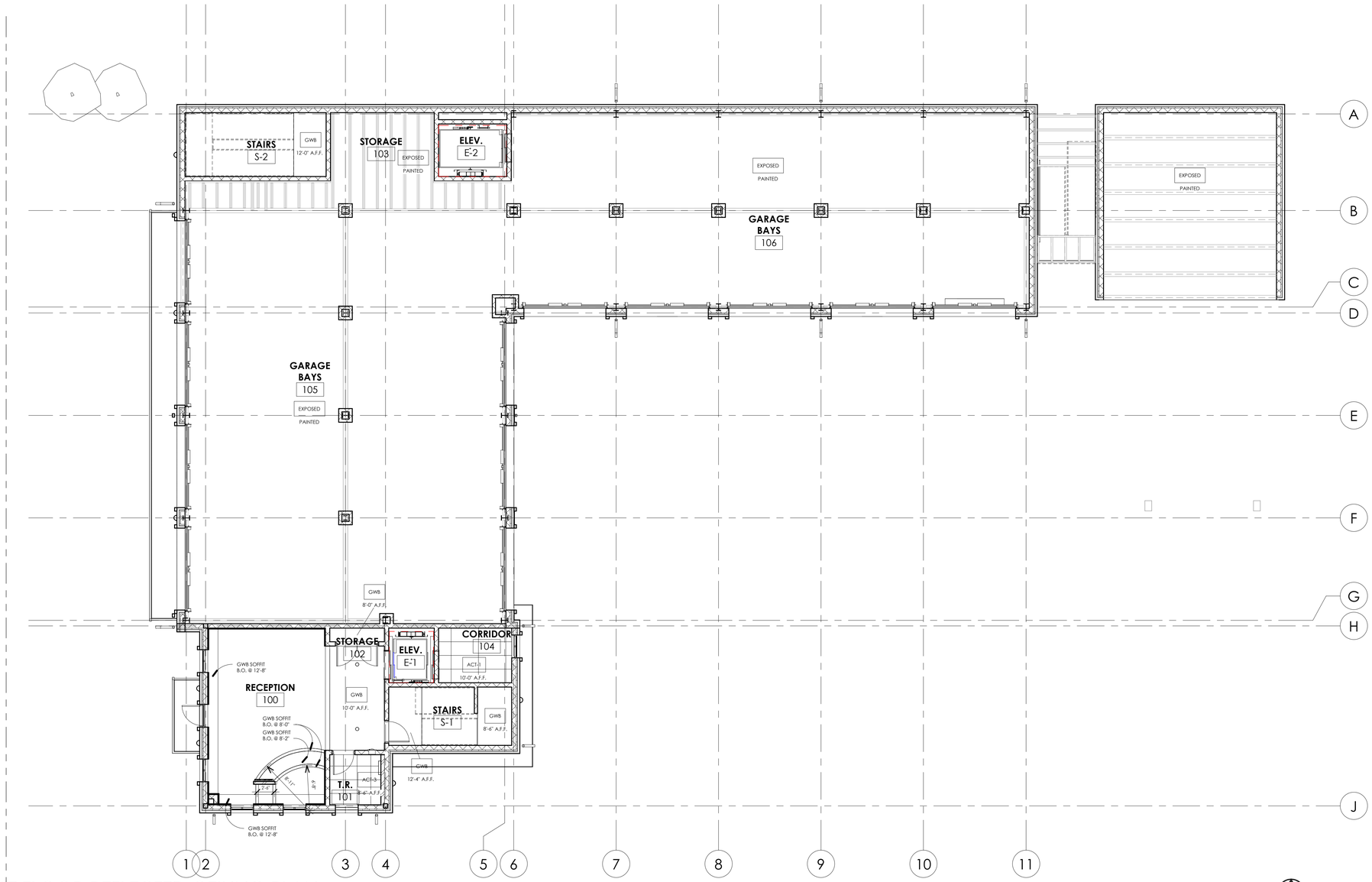
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2 ACT SYSTEM DETAIL
3" = 1'-0"



1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

PLAN NORTH

REFLECTED CEILING LEGEND

- 9'-0" / GWB — CEILING TAG; CEILING FINISH MATERIAL; CEILING HT. A.F.F.
- T — THERMOSTAT
- DIRECT VENT THRU ROOF
- SUPPLY DIFFUSER
- RETURN VENT
- SD — SMOKE DETECTOR
- CO — CO DETECTOR
- ELEC. — ELECTRICAL PANEL
- EXIT SIGN
- EMERGENCY LIGHT
- CEILING MOUNTED FIXTURE
- 2x2 TROFFER
- WALL MOUNTED FIXTURE
- SMALL PENDANT FIXTURE
- LARGE PENDANT/ CHANDELIER
- LINEAR SURFACE MOUNT LIGHT FIXTURE
- COVE LIGHT
- FAN/LIGHT
- TRACK LIGHT

ACT 1 - 2'x4' ACOUSTICAL CEILING TILE

ACT 2 - 2'x2' ACOUSTICAL CEILING TILE

ACT 3 - 2'x2' MOISTURE RESISTANT CEILING TILE

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1	RELEASED FOR BID	07.14.26

FIRST FLOOR REFLECTED CEILING PLAN

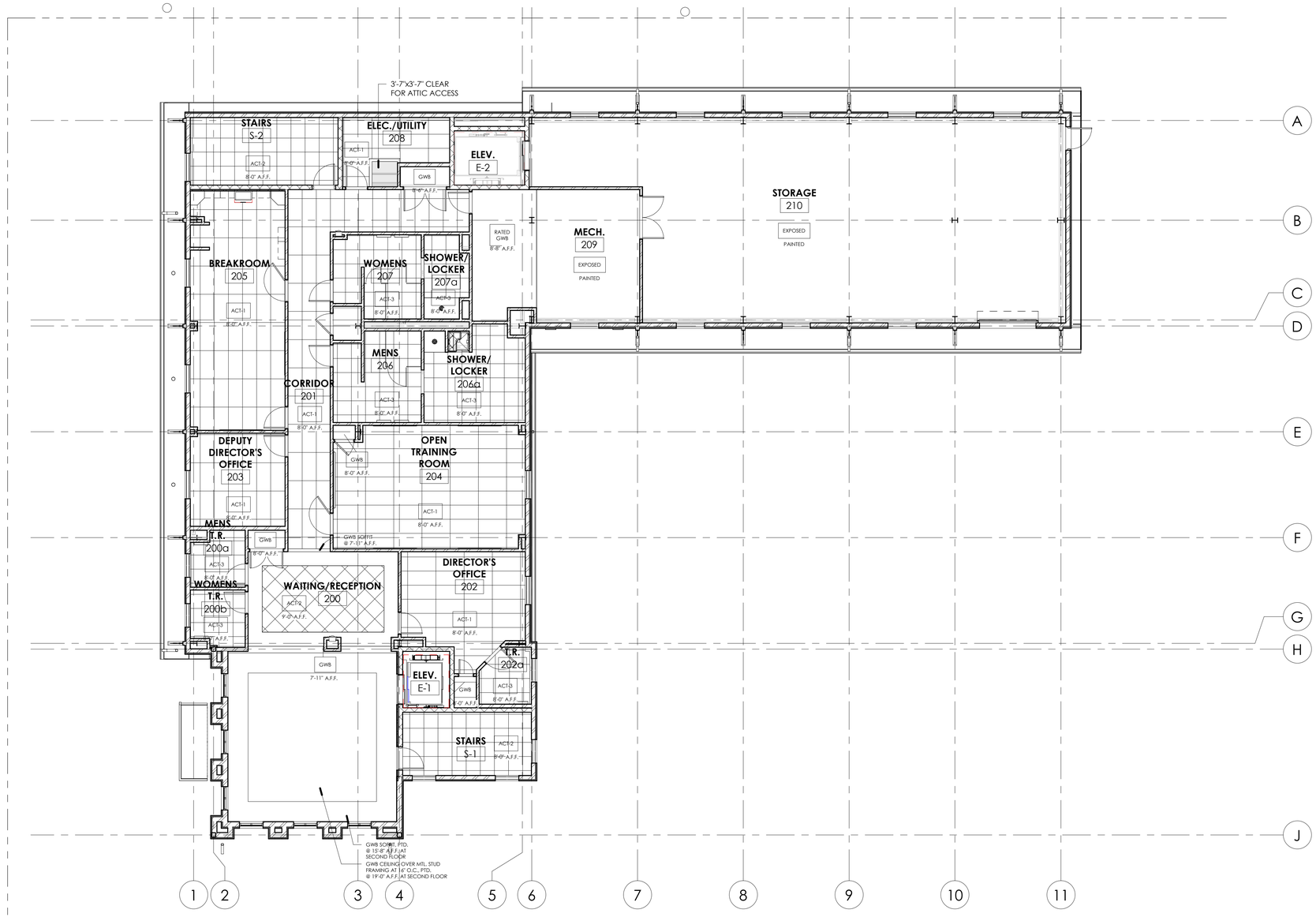
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Drawn by	DAD
Date	08.14.24

A1.20

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REFLECTED CEILING LEGEND

- 9'-0" GWB — CEILING TAG; CEILING FINISH MATERIAL; CEILING HT. A.F.F.
- T — THERMOSTAT
- DIRECT VENT THRU ROOF
- SUPPLY DIFFUSER
- RETURN VENT
- SD — SMOKE DETECTOR
- CO — CO DETECTOR
- ELEC. — ELECTRICAL PANEL
- EXIT SIGN
- EMERGENCY LIGHT
- CEILING MOUNTED FIXTURE
- 2x2 TROFFER
- WALL MOUNTED FIXTURE
- SMALL PENDANT FIXTURE
- LARGE PENDANT/ CHANDELIER
- LINEAR SURFACE MOUNT LIGHT FIXTURE
- COVE LIGHT
- FAN/LIGHT
- TRACK LIGHT

ACT 1 - 2'x4' ACOUSTICAL CEILING TILE

ACT 2 - 2'x2' ACOUSTICAL CEILING TILE

ACT 3 - 2'x2' MOISTURE RESISTANT CEILING TILE

1 SECOND FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

PLAN NORTH

william mclees architecture

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE

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No.	Description	Date
1	RELEASED FOR BID	07.14.26

SECOND FLOOR REFLECTED CEILING PLAN

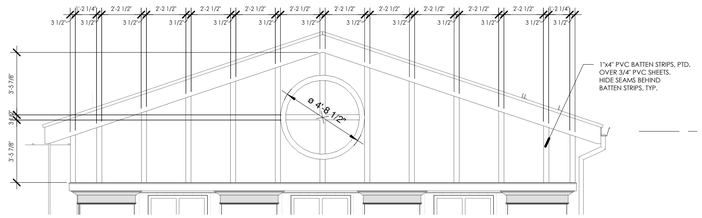
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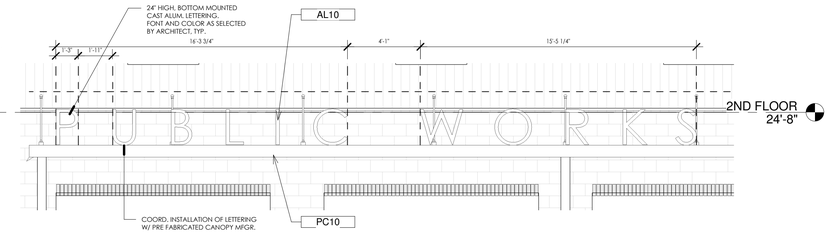
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7/14/2026 10:27:59 AM



4 MAIN ENTRANCE GABLE END DETAIL
1/4" = 1'-0"



3 CAST LETTER DETAIL
1/4" = 1'-0"

EXTERIOR FINISH LEGEND	
TAG	**DESCRIPTION**
AJ10	ALUM. JAMBS FOR FLOOD BARRIER
AL10	CAST ALUMINUM LETTERS. COLOR BY ARCHITECT.
BR10	BRICK VENEER. COLOR BY ARCHITECT.
BR20	BRICK VENEER SOLDIER COURSE. COLOR BY ARCHITECT.
BR30	THIN BRICK VENEER. COLOR BY ARCHITECT.
CS10	CAST STONE SILL. COLOR BY ARCHITECT.
CW10	
CW10	CONC.MASONRY UNIT VENEER WALL. COLOR BY ARCHITECT.
DL10	DRAINABLE LOUVER W/ KYNAR 500 FINISH. COLOR BY ARCHITECT.
DS10	PTD. ALUM. RECTANGULAR DOWNSPOUT. COLOR TO MATCH GUTTERS.
ET10	PTD. EXTERIOR TRIM, COLUMN CAPITAL,6" PVC CROWN #43, 1"x8" PVC TRIM BOARD AND PVC BASE CAP #163. COLOR BY ARCHITECT.
ET20	PTD. EXTERIOR TRIM, COLUMN BASE. PVC BASE CAP #163, 1"x12" PVC TRIM BOARD. COLOR BY ARCHITECT.
FB10	FIBER CEMENT FASCIA BOARD. COLOR BY ARCHITECT.
GS10	
GS10	1-1/2" GALV. MTL. RAILINGS W/ PTD. FINISH. COLOR BY ARCHITECT.
GT10	PTD ALUM. 'K' STYLE GUTTER. COLOR TO MATCH DOWNSPOUTS.
MB10	GALV. METAL CUSTOM BRACKET, PTD. COLOR BY ARCHITECT.
MF10	METAL FASCIA TO MATCH METAL ROOF
MP10	INSULATED MTL. WALL PANEL. COLOR BY ARCHITECT.
MR10	STANDING SEAM METAL ROOF W/ COLOR SELECTED BY ARCHITECT.
MW10	EXTERIOR METAL WALL CAP. COLOR BY ARCHITECT.
PC10	PREFAB MTL. CANOPY,TYPE A, SIZE 4'x60'. COLOR BY ARCHITECT.
PC20	PREFAB MTL. CANOPY,TYPE B, SIZE 4'x10'. COLOR BY ARCHITECT.
SG10	APPLIED MTL. SNOW GUARDS. COLOR TO MATCH MTL. ROOFING AS SELECTED BY ACHITECT.
TB10	FIBER CEMENT TRIMBOARD. COLOR BY ARCHITECT.
WS10	EXTERIOR WALL SCONCE. REFER TO ELECTRICAL DWGS.

GENERAL NOTES FOR EXTERIOR ELEVATIONS AND BUILDING SECTIONS:
APPLICABLE TO ALL A2 SERIES DRAWINGS

1. G.C. SHALL EXTEND ALL ACCENT BANDS AND COURSING AND COLOR SCHEME AROUND ALL BUILDING PERIMETERS, WHETHER ELEVATION IS SHOWN OR NOT.

2. G.C. SHALL PROVIDE CAST DRAINAGE BOOT AT ALL DOWNSPOUTS, INCLUDING ALL PREFABRICATED CANOPIES. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR FULL EXTENT AND ENTIRE SCOPE. EXTEND PIPING AS REQUIRED TO CONNECT.

3. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND MOUNTING HEIGHTS OF ALL EXTERIOR LIGHT FIXTURES, TYPICAL. PROVIDE SMOOTH FACE VENEER, MATCHING SURROUNDING VENEER IN COLOR, AT ALL FIXTURE LOCATIONS.

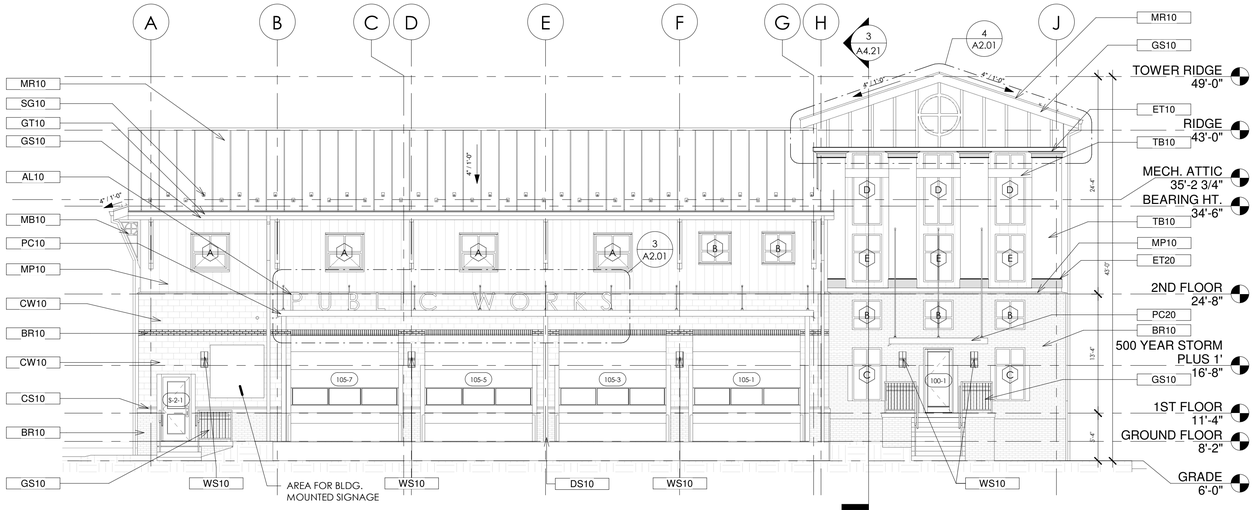
4. G.C. SHALL APPLY WATER REPELLANT ON ALL VENEER SURFACES PER SPECIFICATIONS.

5. G.C. SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR LOUVER LOCATIONS AND LOUVERS TO BE INSTALLED WITHIN WINDOW SYSTEMS, TYPICAL.

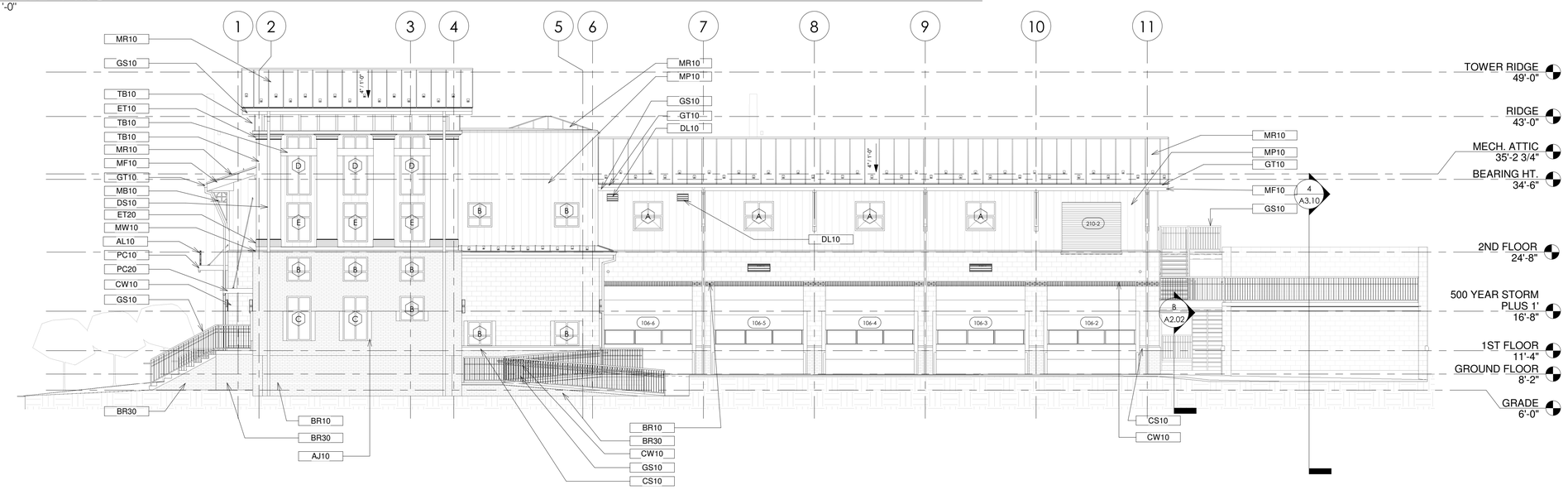
6. REFER TO FLOOR PLANS, ELEVATIONS AND ROOF PLANS AND SPECIFICATIONS FOR SIZE AND LOCATIONS OF ALL PREFABRICATED CANOPY SYSTEMS.

7. ALL EXTERIOR LOUVERS SHALL HAVE FINISH AS SPECIFIED. COLOR SHALL BE SELECTED FROM MANUFACTURERS FULL RANGE OF COLORS, TYPICAL.

8. ALL DOWNSPOUTS TO BE CONNECTED TO UNDERGROUND DRAINAGE SYSTEM, WHETHER SHOWN ON DRAWINGS OR NOT.



2 WEST ELEVATION
1/8" = 1'-0"



1 SOUTH ELEVATION
1/8" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

ELEVATIONS

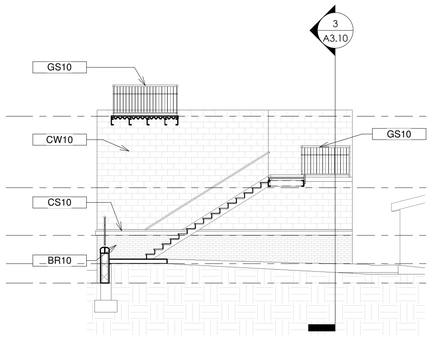
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Date	08.14.24

A2.01

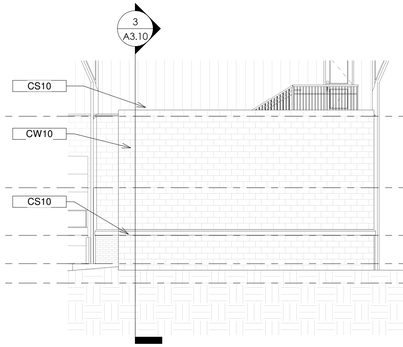
Comission no. 24022M

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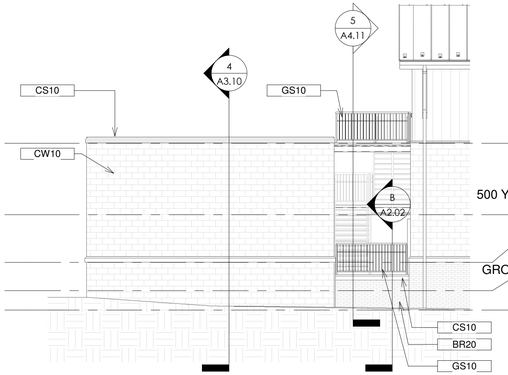
Autodesk Docs://Margate Public Works Building/0022M - model C.rvt



5 WEST ELEVATION - GEN.PLAT.
1/8" = 1'-0"

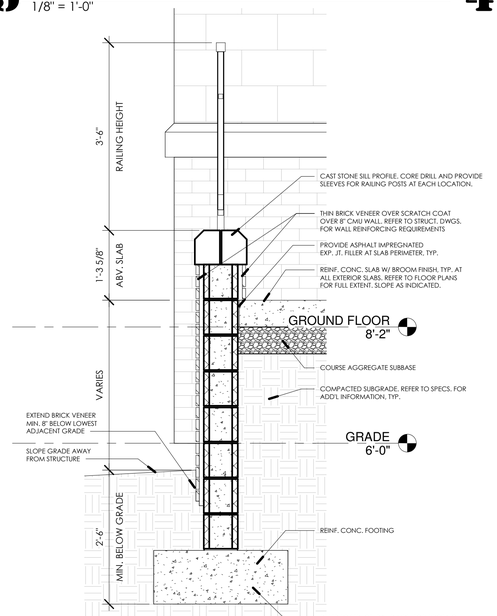


4 EAST ELEVATION - GEN. PLAT.
1/8" = 1'-0"

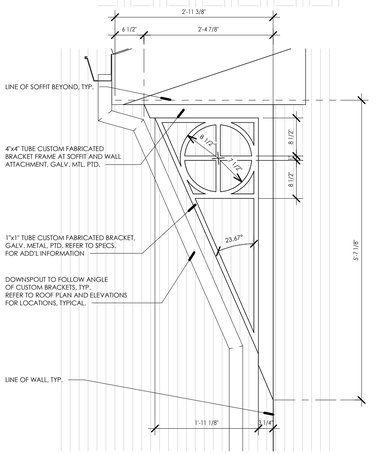


3 NORTH ELEVATION - GENERATOR PLATFORM
1/8" = 1'-0"

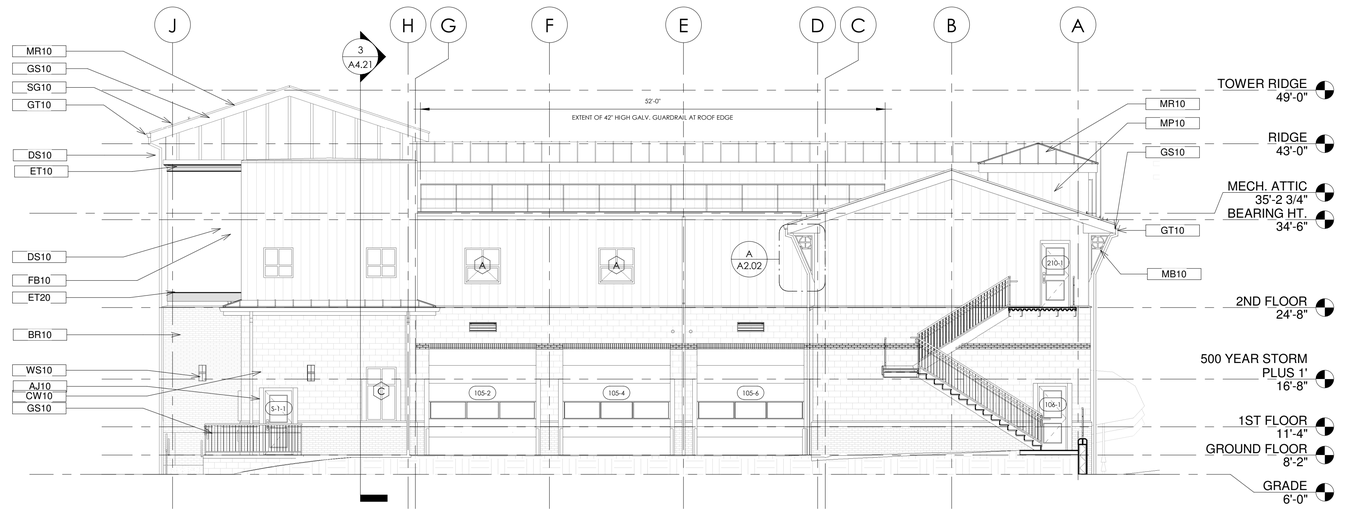
EXTERIOR FINISH LEGEND	
TAG	**DESCRIPTION**
AJ10	ALUM. JAMBS FOR FLOOD BARRIER
AL10	CAST ALUMINUM LETTERS. COLOR BY ARCHITECT.
BR10	BRICK VENEER. COLOR BY ARCHITECT.
BR20	BRICK VENEER SOLDIER COURSE. COLOR BY ARCHITECT.
BR30	THIN BRICK VENEER. COLOR BY ARCHITECT.
CS10	CAST STONE SILL. COLOR BY ARCHITECT.
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WS10	EXTERIOR WALL SCONCE, REFER TO ELECTRICAL DWGS.



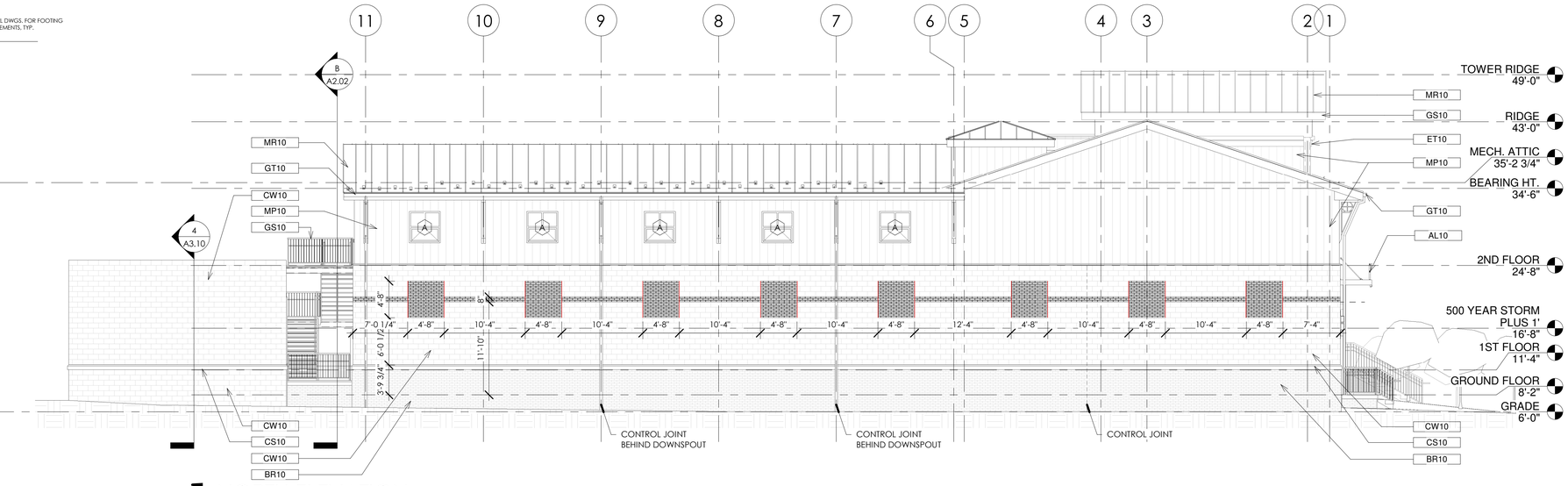
B LOW WALL DETAIL
3/4" = 1'-0"



A WALL BRACKET DETAIL
3/4" = 1'-0"



2 EAST ELEVATION
1/8" = 1'-0"



1 NORTH ELEVATION
1/8" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
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No.	Description	Date
1	RELEASED FOR BID	07.14.26

ELEVATIONS

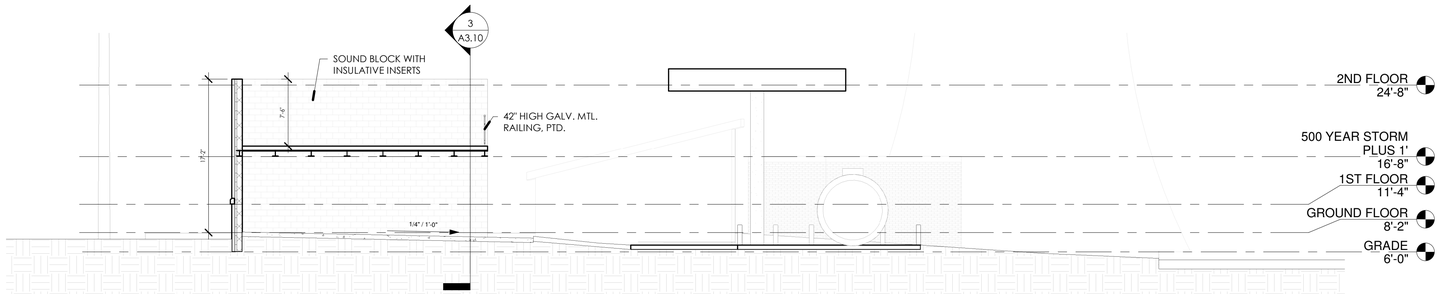
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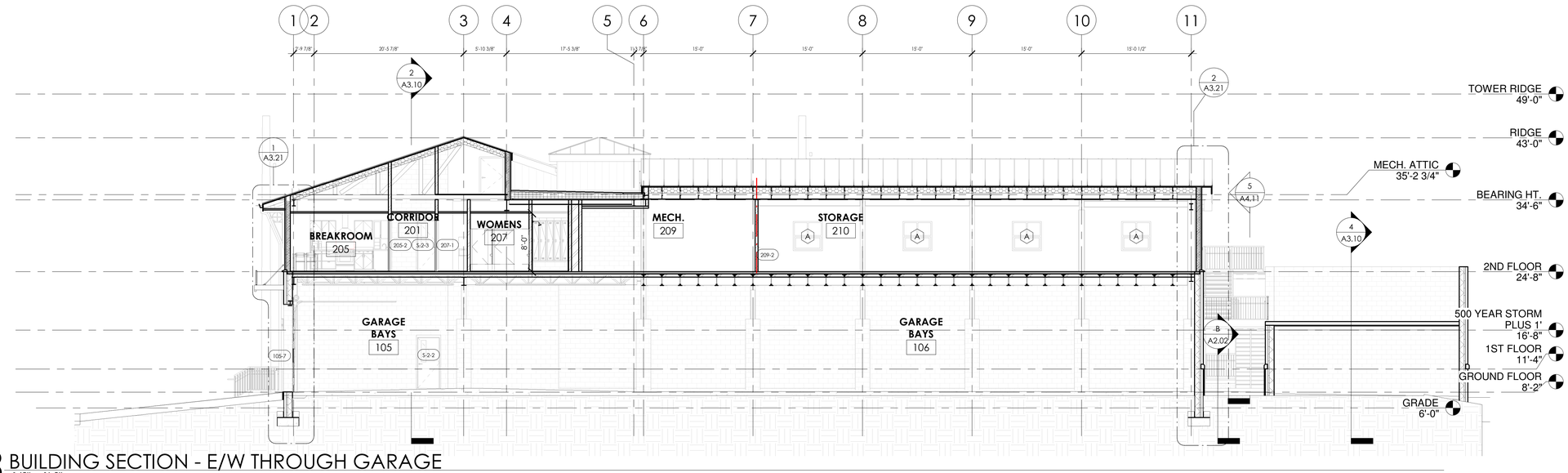
Comission no. 24022M

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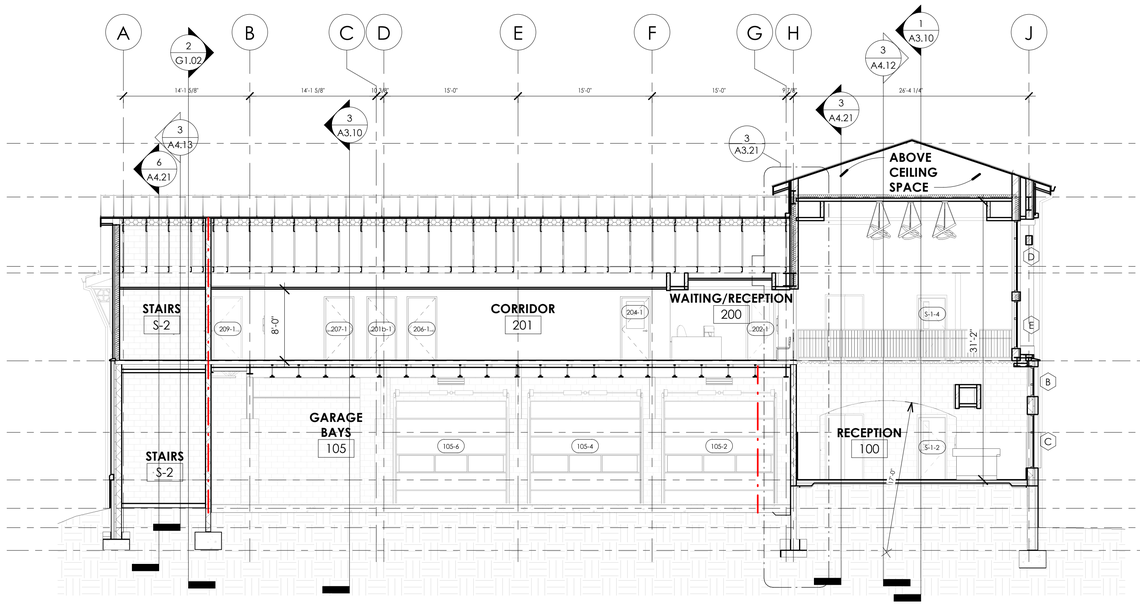
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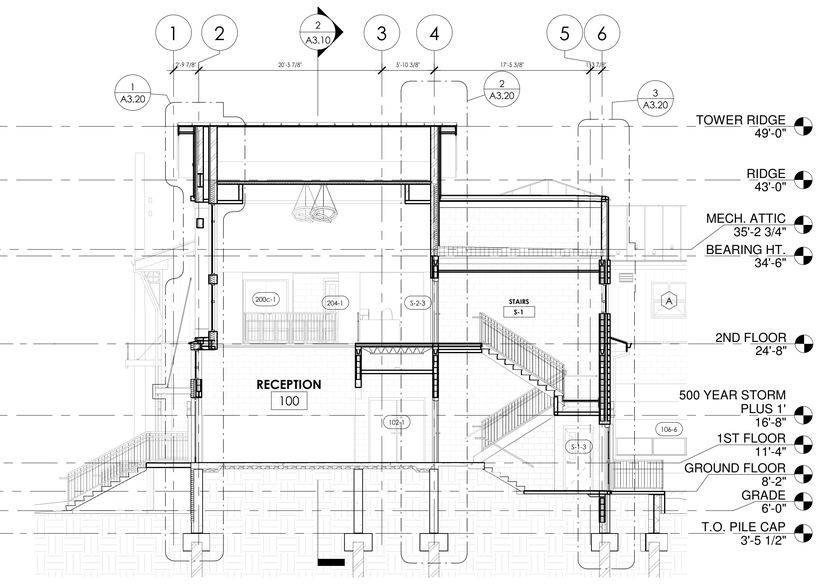


4 BUILDING SECTION N/S THROUGH GENERATOR PLATFORM
1/8" = 1'-0"



3 BUILDING SECTION - E/W THROUGH GARAGE
1/8" = 1'-0"





2 BUILDING SECTION - N/S
1/8" = 1'-0"

1 BUILDING SECTION - E/W THROUGH MAIN ENTRANCE
1/8" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE

NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

BUILDING SECTIONS

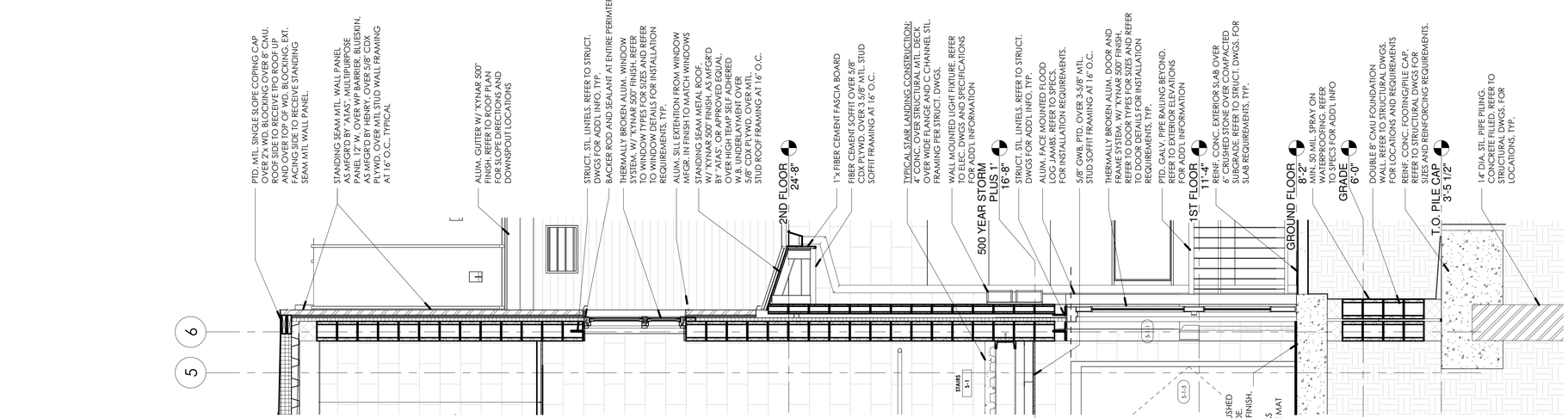
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Date	08.14.24

A3.10

Comission no. 24022M

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1 WALL SECTION - RECEPTION
1/2" = 1'-0"

2 WALL SECTION - A - STAIR S-1
1/2" = 1'-0"

3 WALL SECTION - B - STAIR S-1
1/2" = 1'-0"

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BLOCK 324.01
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No.	Description	Date
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WALL SECTIONS

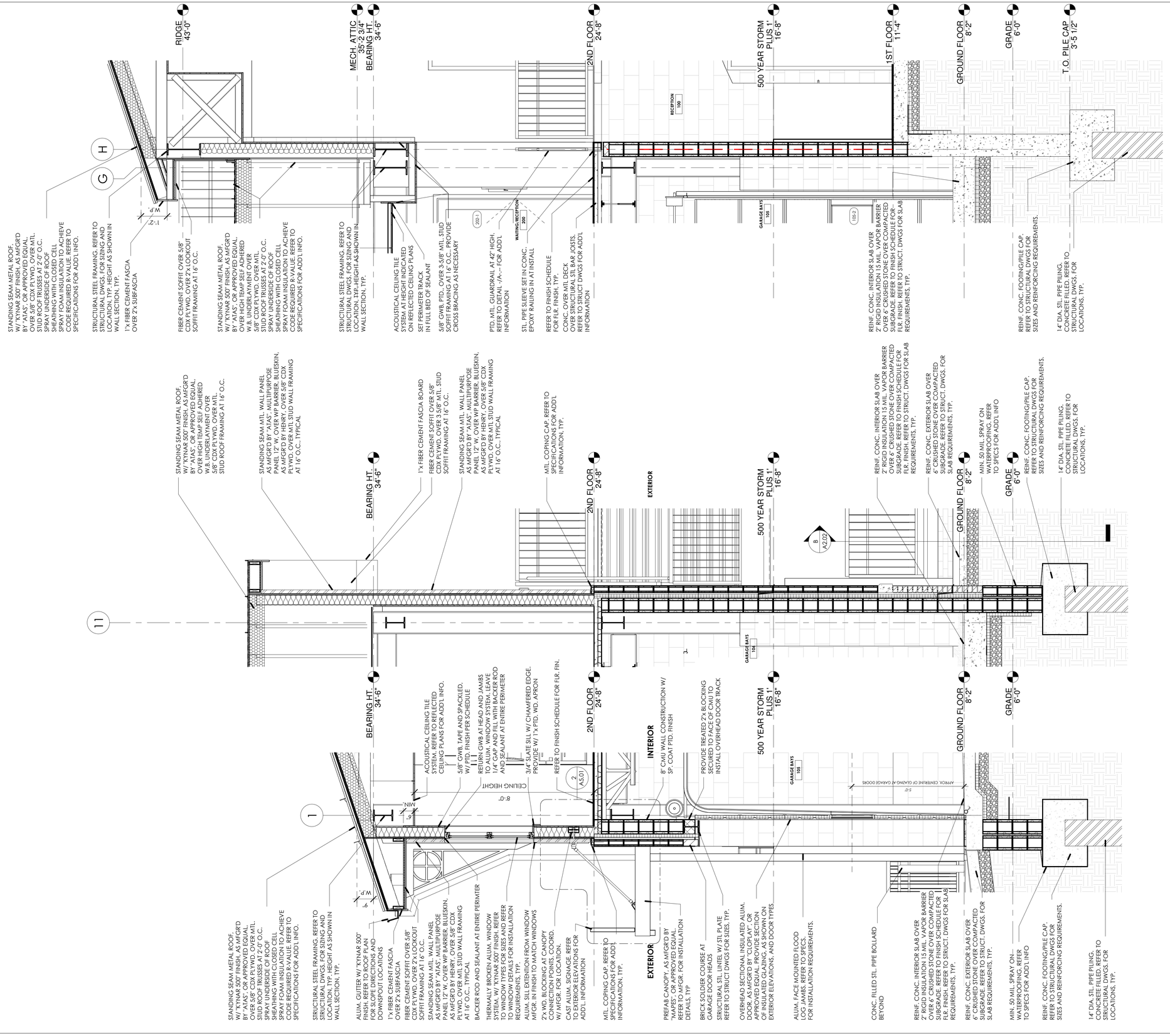
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Drawn by	DAD
Date	08.14.24

A3.20

Comission no. 24022M

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
NOT FOR CONSTRUCTION

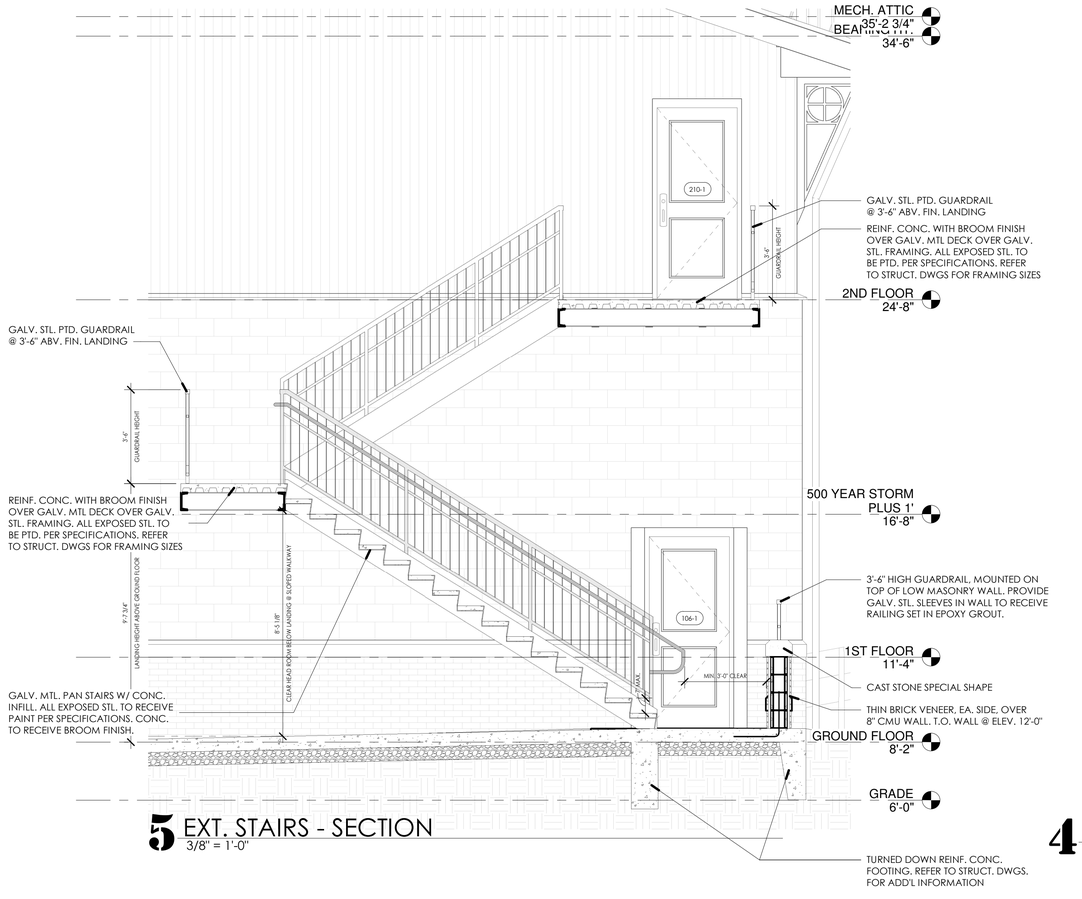
No.	Description	Date
1	RELEASED FOR BID	07.14.26

WALL SECTIONS

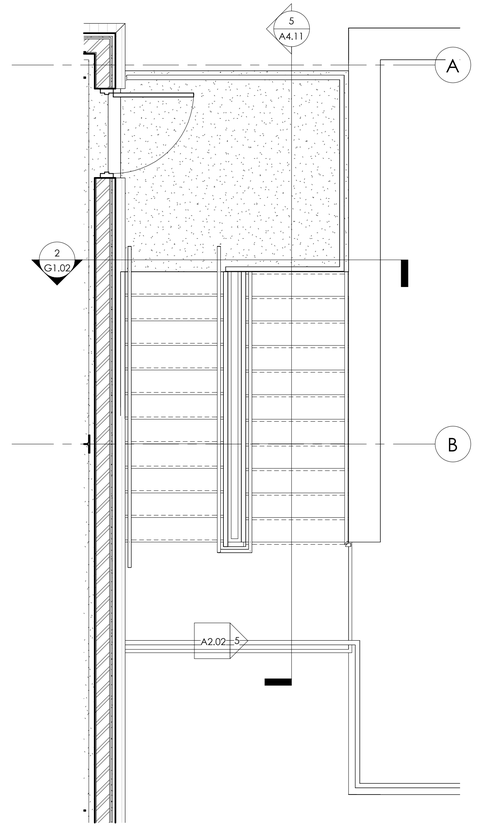
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Date	08.14.24

A3.21

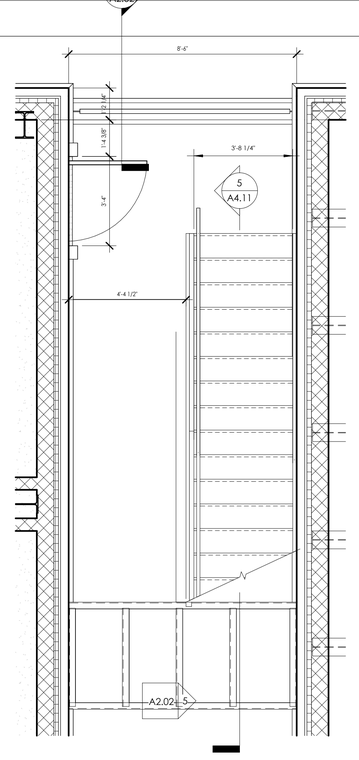
Comission no. 24022M



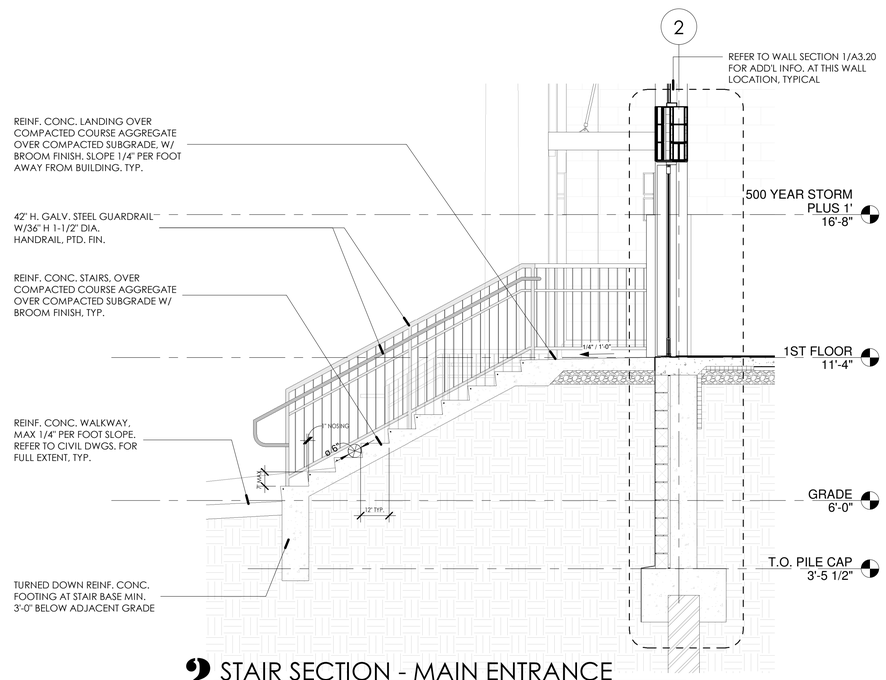
5 EXT. STAIRS - SECTION
3/8" = 1'-0"



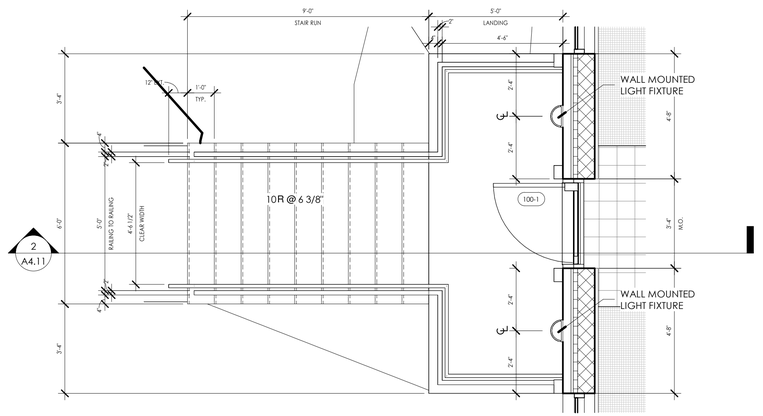
4 ENLARGED VIEW EXT. STAIRS - SECOND FLOOR
3/8" = 1'-0"



3 ENLARGED VIEW EXT. STAIRS - FIRST FLOOR
3/8" = 1'-0"



2 STAIR SECTION - MAIN ENTRANCE
3/8" = 1'-0"



1 ENLARGED VIEW - MAIN ENTRANCE
3/8" = 1'-0"

PLAN NORTH

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

ENLARGED STAIR PLANS AND SECTIONS

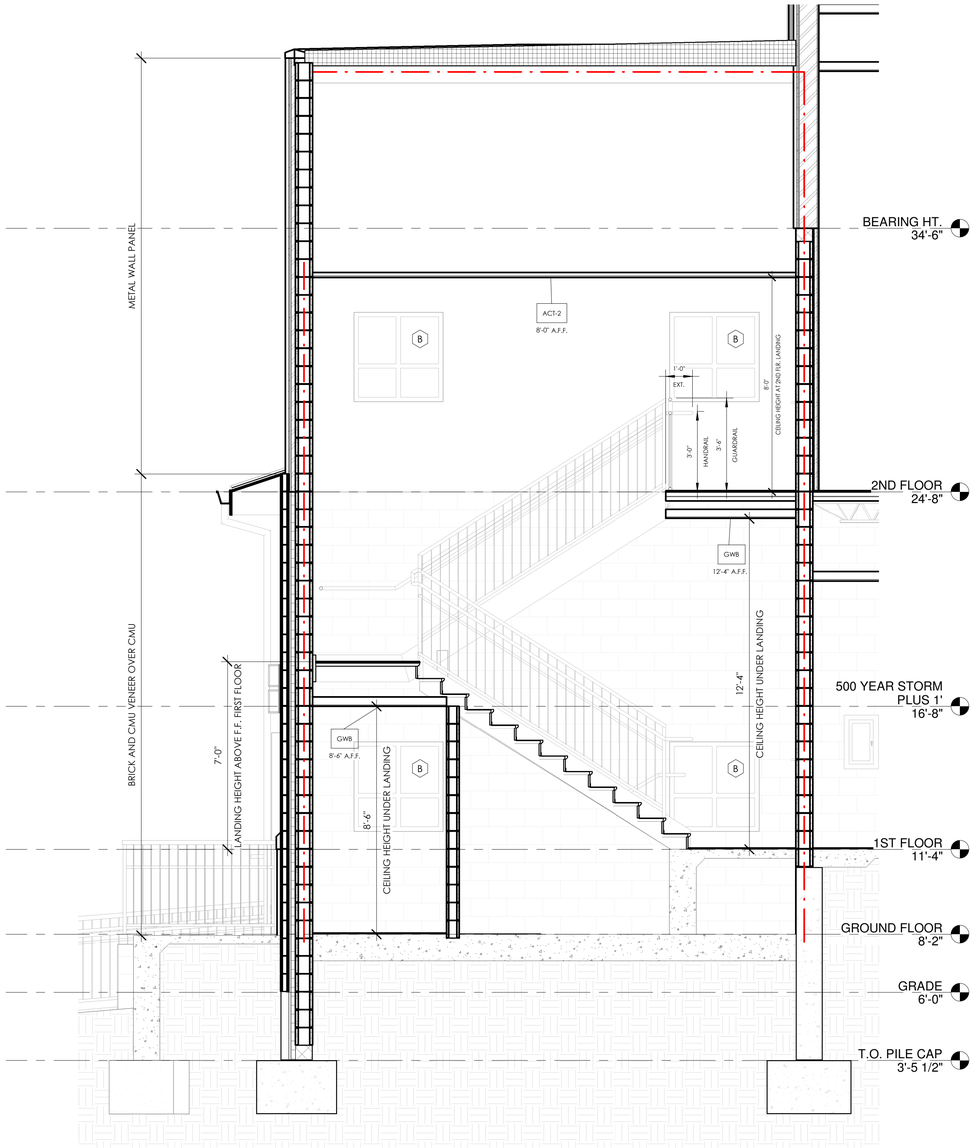
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Drawn by	DAD
Date	08.14.24

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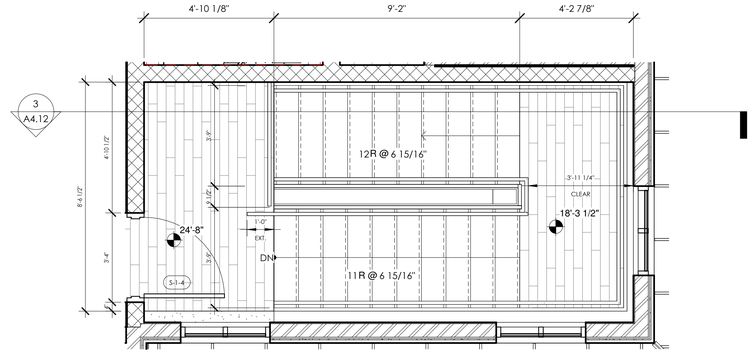
Comission no. 24022M

Autodesk Docs://Margate Public Works Building/0ZZM - model C.rvt

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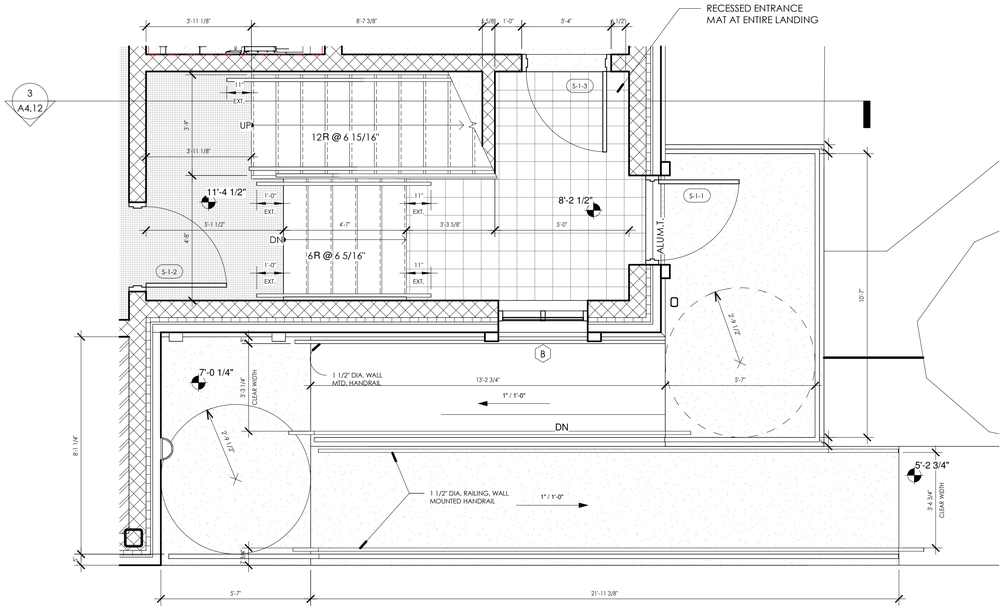


3 STAIR SECTION S-1
3/8" = 1'-0"



2 ENLARGED VIEW STAIRS S-1 - 2ND FLOOR
3/8" = 1'-0"

PLAN NORTH



1 ENLARGED VIEW STAIR S-1 - FIRST FLOOR
3/8" = 1'-0"

PLAN NORTH

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE

NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

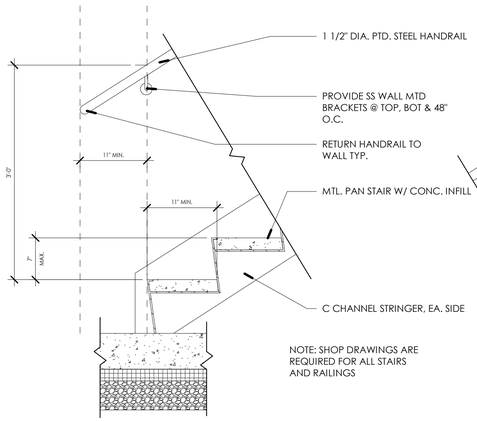
ENLARGED STAIR PLANS AND SECTIONS

Scale	3/8" = 1'-0"
Drawn by	DAD
Date	08.14.24

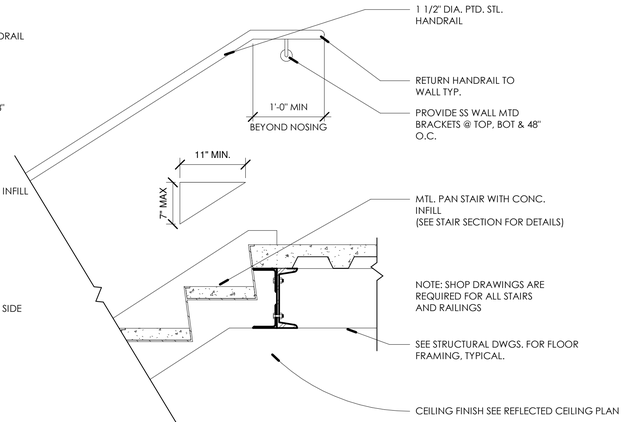
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Comission no. 24022M

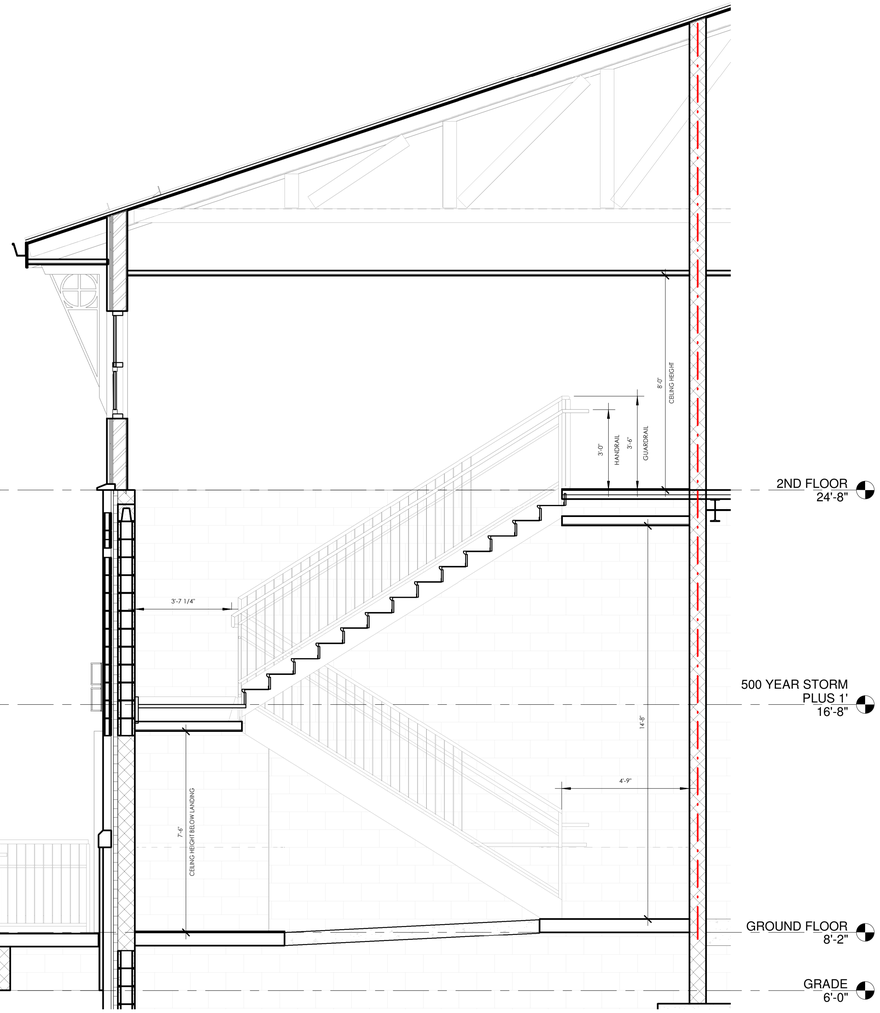
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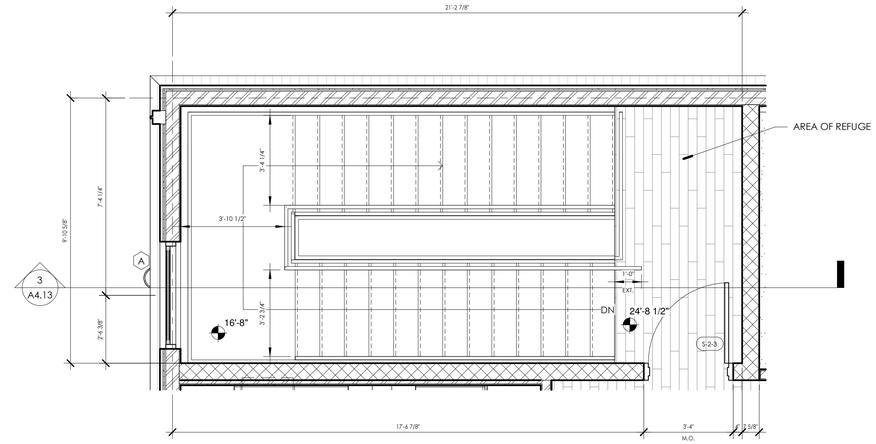
5 HANDRAIL DETAIL - B.O. STAIR
1" = 1'-0"



4 HANDRAIL DETAIL - T.O. STAIR
1" = 1'-0"

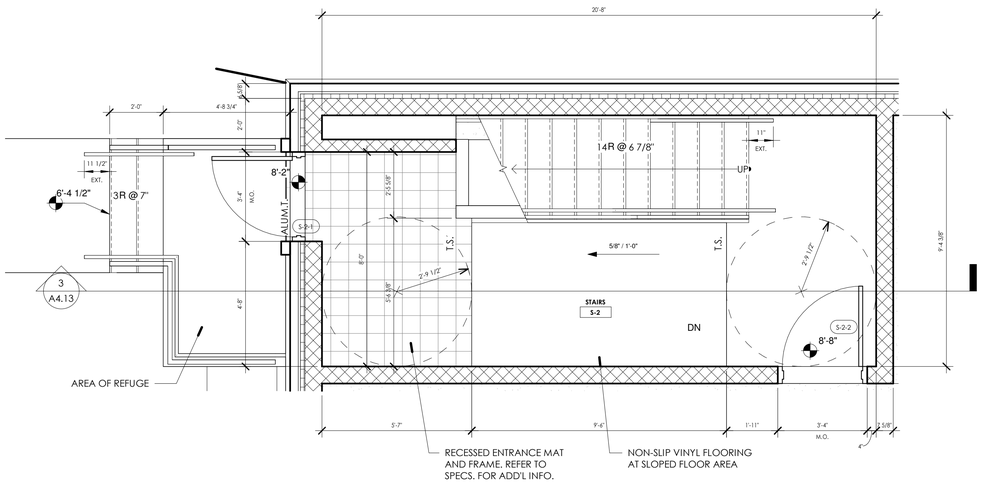


3 STAIR SECTION S-2
3/8" = 1'-0"



2 ENLARGED VIEW STAIRS S-2 - 2ND FLOOR
3/8" = 1'-0"

PLAN NORTH



1 ENLARGED VIEW STAIR S-2 - 1ST FLOOR
3/8" = 1'-0"

PLAN NORTH

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE

NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

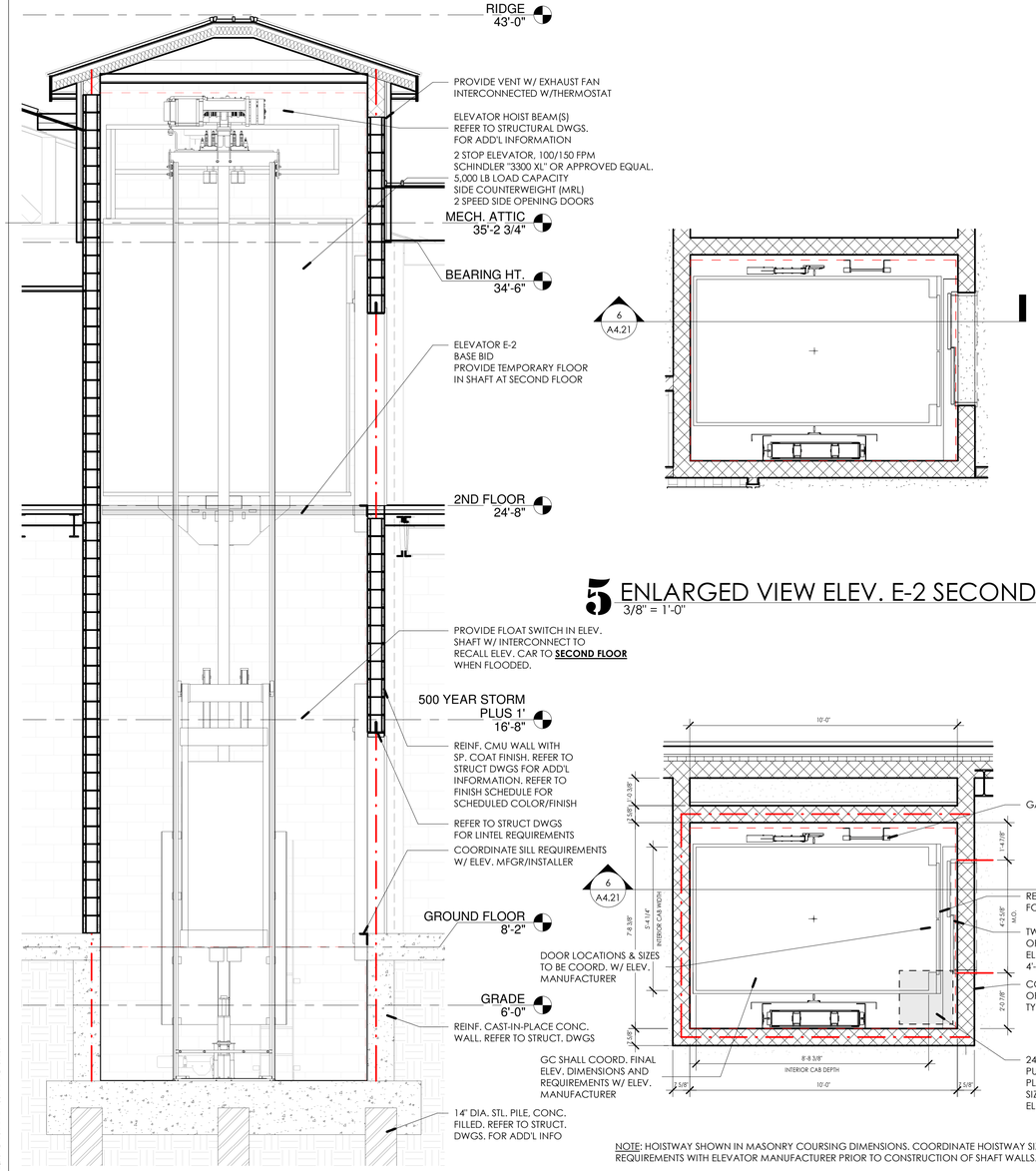
ENLARGED STAIR PLANS AND SECTIONS

Scale	As indicated
Drawn by	DAD
Date	08.14.24

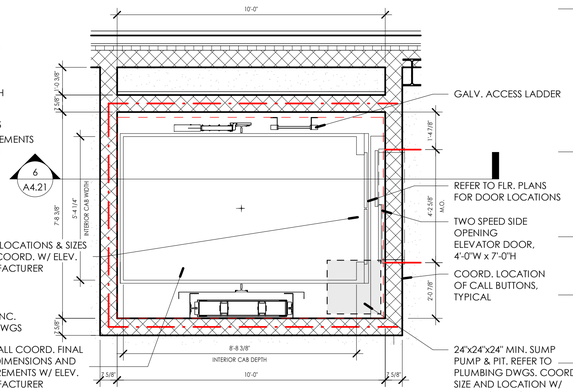
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Comission no. 24022M

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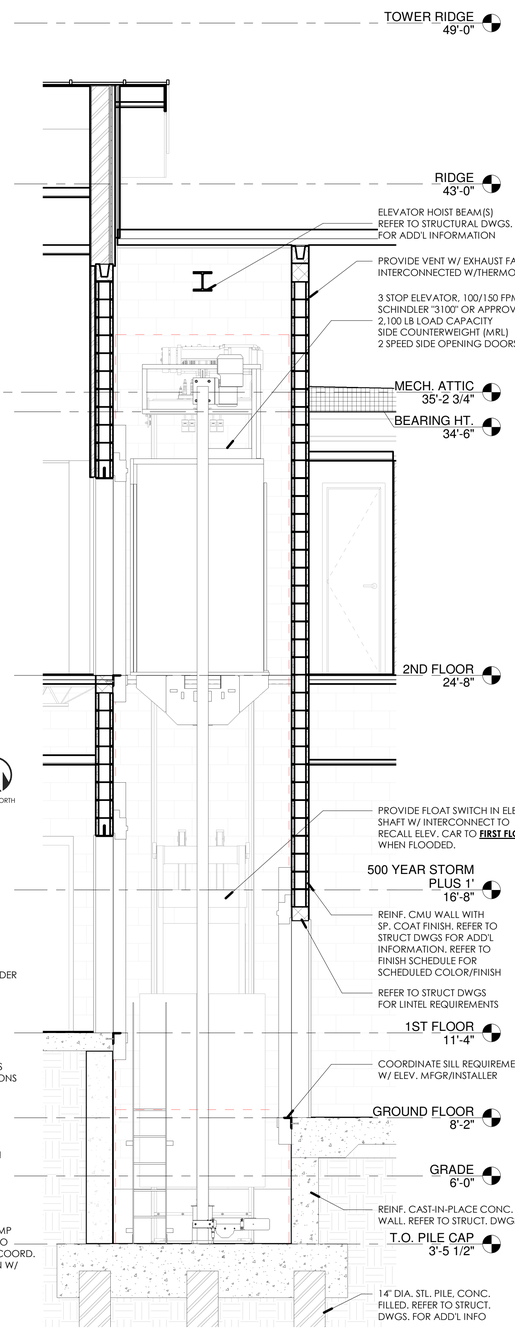


5 ENLARGED VIEW ELEV. E-2 SECOND FLR.
3/8" = 1'-0"



NOTE: HOISTWAY SHOWN IN MASONRY COURSING DIMENSIONS. COORDINATE HOISTWAY SIZE REQUIREMENTS WITH ELEVATOR MANUFACTURER PRIOR TO CONSTRUCTION OF SHAFT WALLS.

6 ELEVATOR SECTION - E-2
3/8" = 1'-0"



4 ENLARGED VIEW ELEV. E-2 FIRST FLR.
3/8" = 1'-0"

3 ELEVATOR SECTION E-1
3/8" = 1'-0"

ELEVATOR BASIS OF DESIGN:
SCHINDLER 3100 MRL TRACTION ELEVATOR, 3 STOPS

2100 LB. CAPACITY FRONT/REAR OPENING,

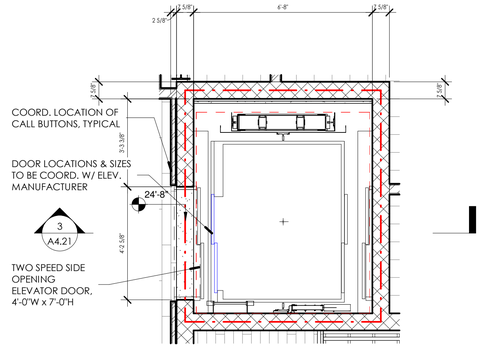
SPEED 150 FPM W/ 2-SPEED SIDE OPENING DOORS

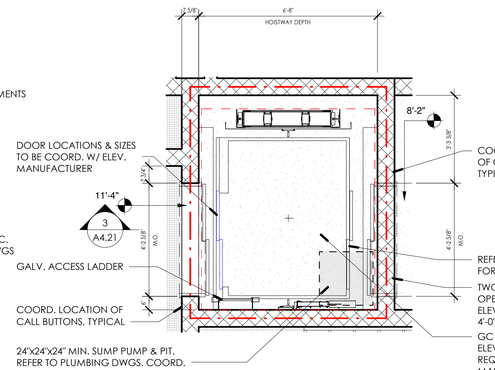
CAB INTERIOR 4'-4 7/8" D x 5'-9 3/8" W x 8'-0" H

MIN. CLR. OVERHEAD 14'-3" TO UNDERSIDE OF STRUCTURE

PROVIDE ELEVATOR PIT WITH SUMP PUMP,
REFER TO MFGR. FOR PIT DEPTH, TYP.

SPRINKLERED HOISTWAY, SEE FIRE PROTECTION DWGS.





NOTE: HOISTWAY SHOWN IN MASONRY COURSING DIMENSIONS. COORDINATE HOISTWAY SIZE REQUIREMENTS WITH ELEVATOR MANUFACTURER PRIOR TO CONSTRUCTION OF SHAFT WALLS.

2 ENLARGED VIEW ELEV. E-1 SECOND FLR.
3/8" = 1'-0"

1 ENLARGED VIEW ELEV. E-1 FIRST FLR.
3/8" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE

NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

ENLARGED ELEVATOR PLANS AND SECTIONS

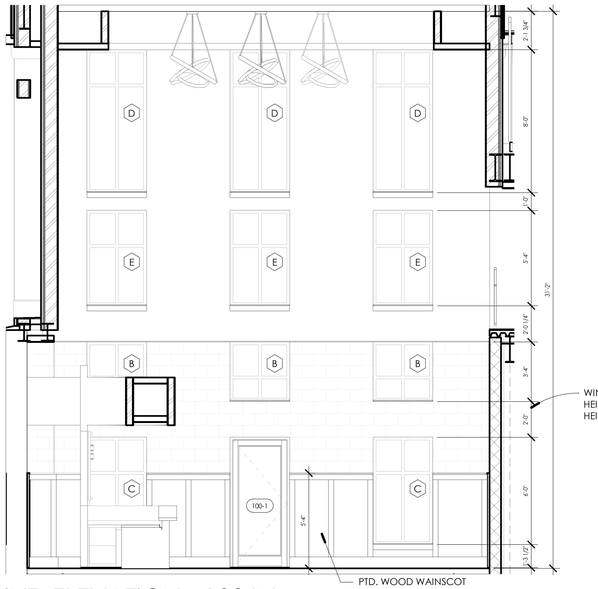
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Drawn by	DAD
Date	08.14.24

A4.21

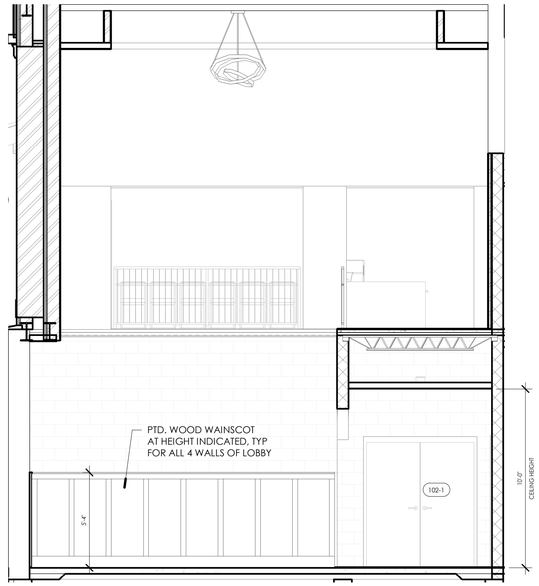
Comission no. 24022M

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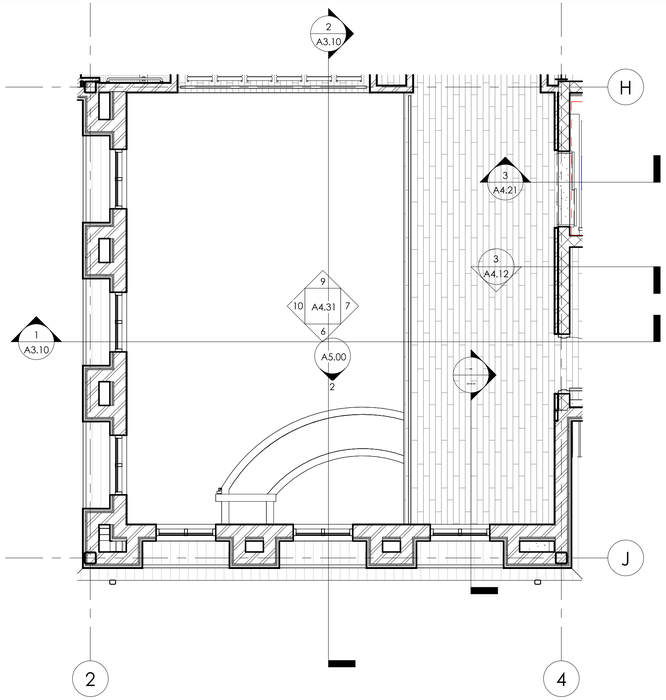
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10 INT. ELEVATION - 100 W
1/4" = 1'-0"



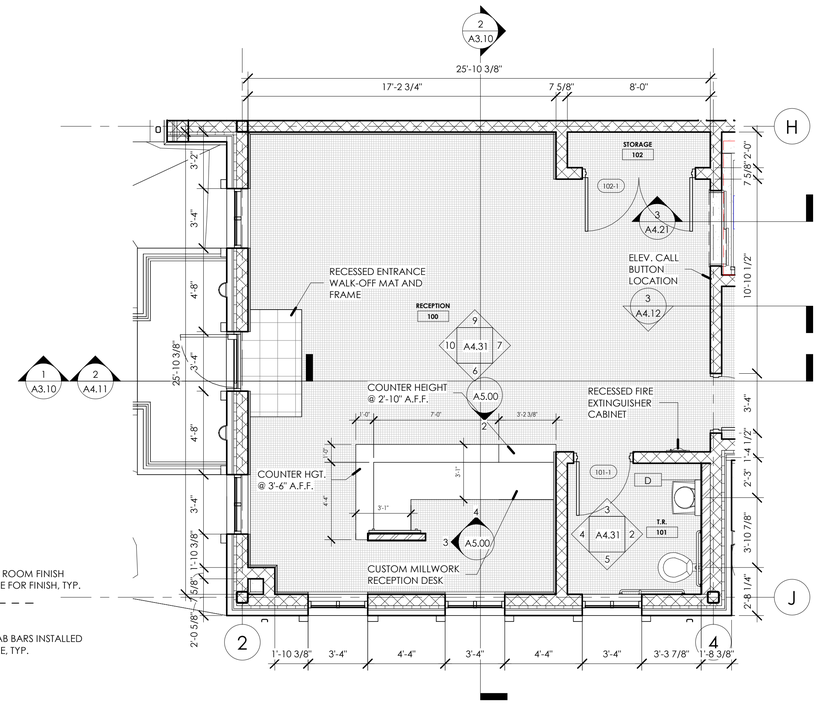
9 INT. ELEVATION - 100 N
1/4" = 1'-0"



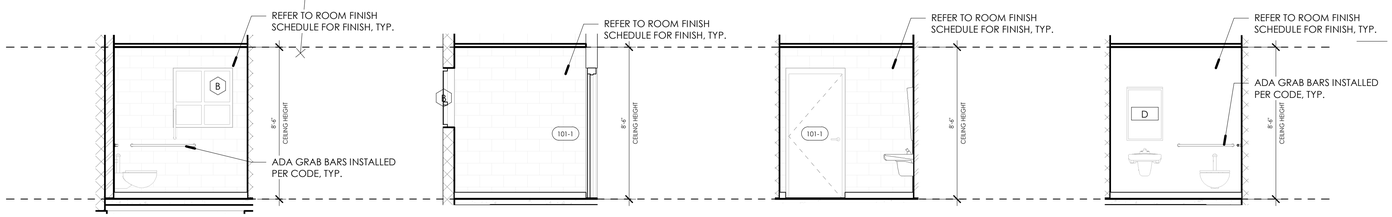
8 ENLARGED PLAN - RECEPTION 100 - SECOND FLR.
1/4" = 1'-0"

7 INT. ELEVATION - 100 E
1/4" = 1'-0"

6 INT. ELEVATION - 100 S
1/4" = 1'-0"



1 ENLARGED PLAN - RECEPTION 100
1/4" = 1'-0"



5 INT. ELEVATION - 101 S
1/4" = 1'-0"

4 INT. ELEVATION - 101 W
1/4" = 1'-0"

3 INT. ELEVATION - 101 N
1/4" = 1'-0"

2 INT. ELEVATION - 101 E
1/4" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE

NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

ENLARGED PLANS AND ELEVATIONS - RECEPTION 100 AND TOILET ROOM 101

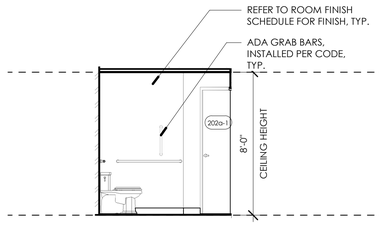
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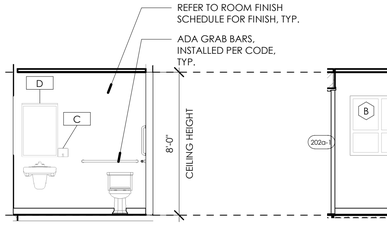
Comission no. 24022M

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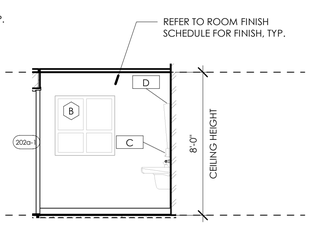
RESTROOM FIXTURES & ACCESSORIES SCHEDULE						
TAG	DESCRIPTION	MANUF.	MODEL	DIMENSIONS	MOUNTING HEIGHT	NOTES
C	SOAP DISPENSER	BOBRICK	'CONTURA' SERIES WALL-MOUNTED SOAP DISPENSER B-4112	7" X 6-1/8"H. X 2-9/16"D.	44" AFF TO OPERABLE	
D	MIRROR	BOBRICK	STAINLESS STEEL MIRROR B-290 2436	24" X 36"H.	40" AFF MAX.	TO BOTTOM OF REFL. SURFACE
E	TOILET TISSUE DISPENSER	BOBRICK	SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER B-2888	6" X 11"H. X 6"D.	15" AFF TO BOTTOM	
F	SANITARY WASTE	BOBRICK	'CONTURA' SERIES SURFACE MOUNTED SANITARY NAPKIN DISPOSAL B-270	7.5" X 10"H. X 3-13/16"D	30" AFF TO TOP	
G	COMBO PAPER TOWEL & WASTE RECEPTACLE	BOBRICK	'CLASSIC' SERIES RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE B-39617	17-3/16" X 56"H. X 8-1/8"D.	44" AFF TO OPERABLE	
H	BABY CHANGING STATION	KOALA KARE	BABY CHANGING STATION WITH DIAPER BAG HOOK KB300-00	36" X 20-3/4"H. X 4"D.	27" AFF TO BOTTOM	ADA COMPLIANT
J	GRAB BAR	BOBRICK	TWO-WALL STAINLESS STEEL HORIZONTAL GRAB BAR B-5897	1-1/4" X 42" X 54"	34" AFF TO CENTER	



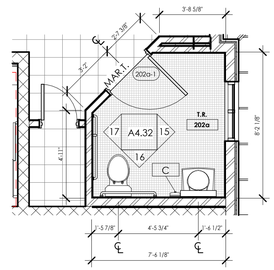
17 TOILET RM. 202a - W
1/4" = 1'-0"



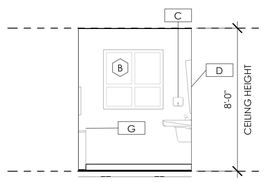
16 TOILET RM. 202a - S
1/4" = 1'-0"



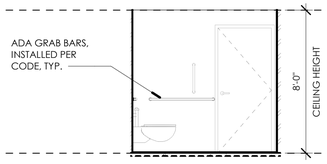
15 TOILET RM. 202a - E
1/4" = 1'-0"



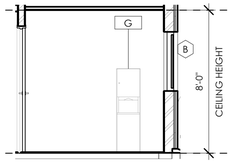
14 ENLARGED VIEW - T.R. 202a
1/4" = 1'-0"



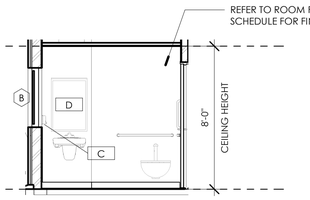
13 MEN'S T.R. 200a - ELEV. W
1/4" = 1'-0"



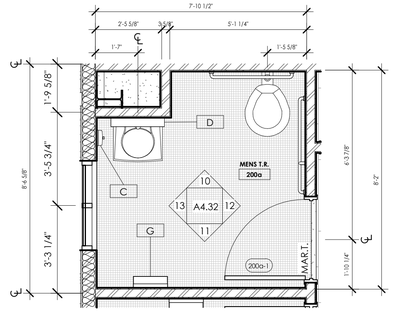
12 MEN'S T.R. 200a - ELEV. E
1/4" = 1'-0"



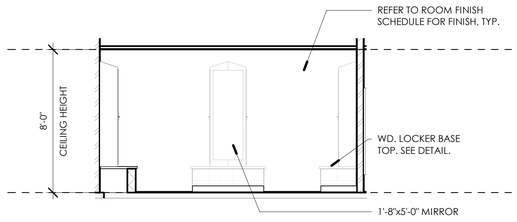
11 MEN'S T.R. 200a - ELEV. S
1/4" = 1'-0"



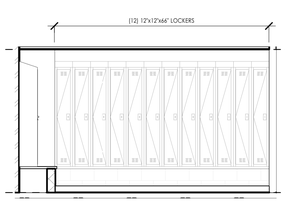
10 MEN'S T.R. 200a - ELEV. N
1/4" = 1'-0"



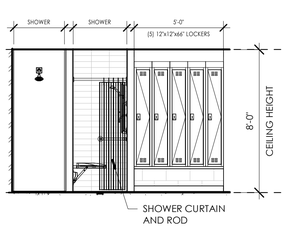
9 ENLARGED VIEW - MEN'S T.R. 200a
3/8" = 1'-0"



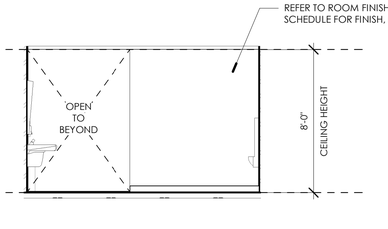
8 MENS' SHOWER/LOCKER - S
1/4" = 1'-0"



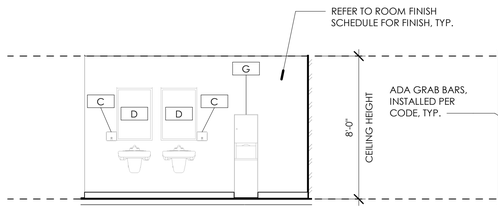
7 MEN'S SHOWER/LOCKER - E
1/4" = 1'-0"



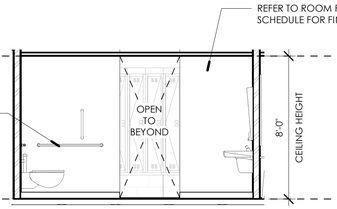
6 MEN'S SHOWER/LOCKER - N
1/4" = 1'-0"



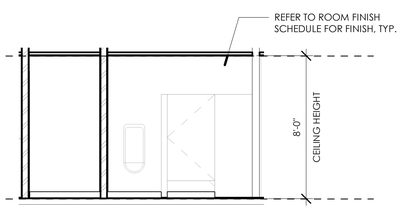
5 MEN'S LOCKER ROOM 206 - ELEV. W
1/4" = 1'-0"



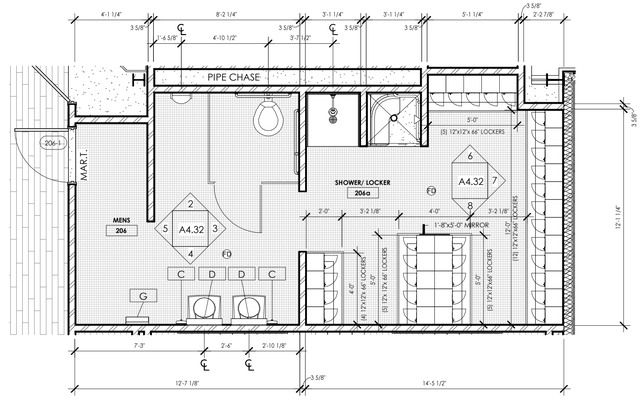
4 MEN'S LOCKER ROOM 206 - ELEV. S
1/4" = 1'-0"



3 MEN'S LOCKER ROOM 206 - ELEV. E
1/4" = 1'-0"



2 MEN'S LOCKER ROOM 206 - ELEV. N
1/4" = 1'-0"



1 ENLARGED VIEW - MEN'S LOCKER ROOM/SHOWERS 206
1/4" = 1'-0"

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New Jersey State Certificate of Authorization # 21AC00055500

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE

NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

ENLARGED FLOOR PLANS AND ELEVS - MENS LOCKER RM / RESTROOMS

Scale	As indicated
Drawn by	DAD
Date	08.14.24

A4.32

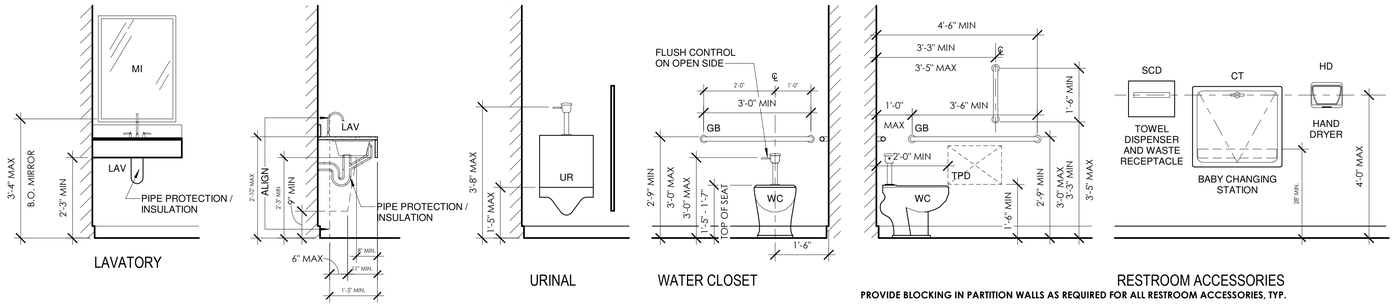
Comission no. 24022M

Autodesk Docs://Margate Public Works Building/0222M - model C.rvt

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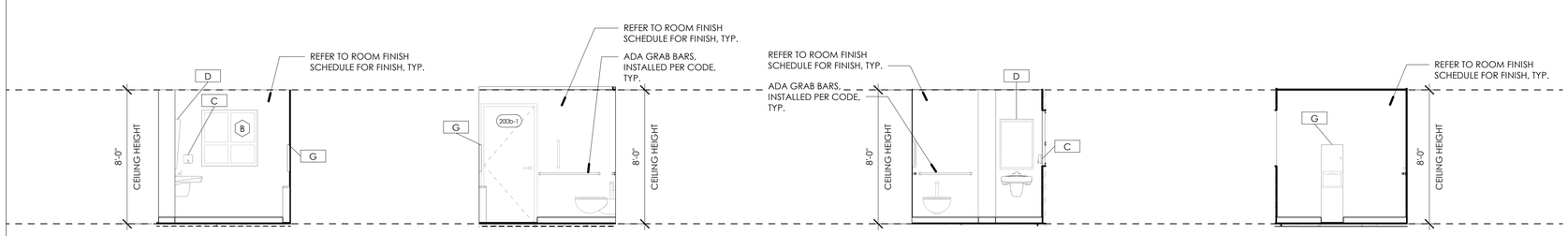
RESTROOM FIXTURES & ACCESSORIES SCHEDULE

TAG	DESCRIPTION	MANUF.	MODEL	DIMENSIONS	MOUNTING HEIGHT	NOTES
C	SOAP DISPENSER	BOBRICK	'CONTURA' SERIES WALL-MOUNTED SOAP DISPENSER B-4112	7" X 6-1/8"H. X 2-9/16"D.	44" AFF TO OPERABLE	
D	MIRROR	BOBRICK	STAINLESS STEEL MIRROR B-290 2436	24" X 36"H.	40" AFF MAX.	TO BOTTOM OF REFL. SURFACE
E	TOILET TISSUE DISPENSER	BOBRICK	SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER B-2888	6" X 11"H. X 6"D.	15" AFF TO BOTTOM	
F	SANITARY WASTE	BOBRICK	'CONTURA' SERIES SURFACE MOUNTED SANITARY NAPKIN DISPOSAL B-270	7.5" X 10"H. X 3-13/16"D	30" AFF TO TOP	
G	COMBO PAPER TOWEL & WASTE RECEPTACLE	BOBRICK	'CLASSIC' SERIES RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE B-39617	17-3/16" X 56"H. X 8-1/8"D.	44" AFF TO OPERABLE	
H	BABY CHANGING STATION	KOALA KARE	BABY CHANGING STATION WITH DIAPER BAG HOOK KB300-00	36" X 20-3/4"H. X 4"D.	27" AFF TO BOTTOM	ADA COMPLIANT
J	GRAB BAR	BOBRICK	TWO-WALL STAINLESS STEEL HORIZONTAL GRAB BAR B-5897	1-1/4" X 42" X 54"	34" AFF TO CENTER	



PROVIDE BLOCKING IN PARTITION WALLS AS REQUIRED FOR ALL RESTROOM ACCESSORIES, TYP.

RESTROOM FIXTURE AND ACCESSORIES MOUNTING HEIGHTS AND LOCATIONS

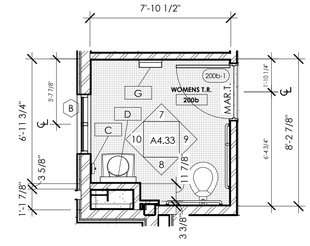


10 WOMEN'S T.R. 200b - ELEV. W
1/4" = 1'-0"

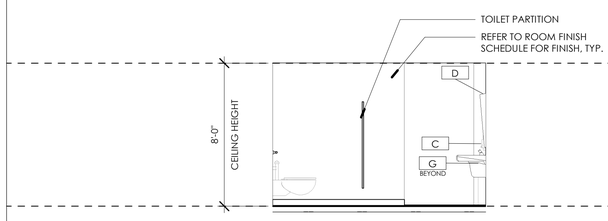
9 WOMEN'S T.R. 200b - ELEV. E
1/4" = 1'-0"

8 WOMEN'S T.R. 200b - ELEV. S
1/4" = 1'-0"

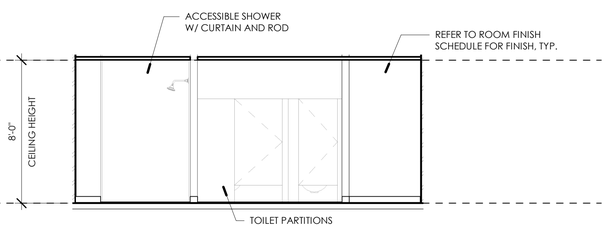
7 WOMEN'S T.R. 200b - ELEV. N
1/4" = 1'-0"



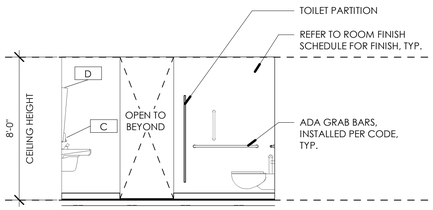
6 ENLARGED VIEW - WOMEN'S T.R. 200b
1/4" = 1'-0"



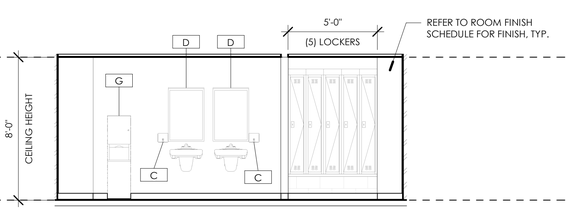
5 WOMEN'S LOCKER ROOM 207 - ELEV. W
1/4" = 1'-0"



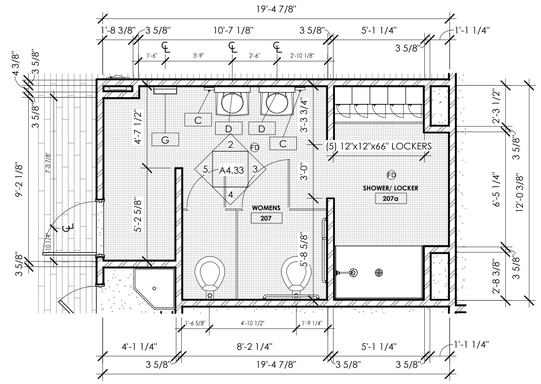
4 WOMEN'S LOCKER ROOM 207 - ELEV. S
1/4" = 1'-0"



3 WOMEN'S LOCKER ROOM 207 - ELEV. E
1/4" = 1'-0"



2 WOMEN'S LOCKER ROOM 207 - ELEV. N
1/4" = 1'-0"



1 ENLARGED VIEW - WOMEN'S LOCKER ROOM/SHOWERS 207
1/4" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

ENLARGED FLOOR PLANS AND ELEVS - WOMENS LOCKER RM / RESTROOMS

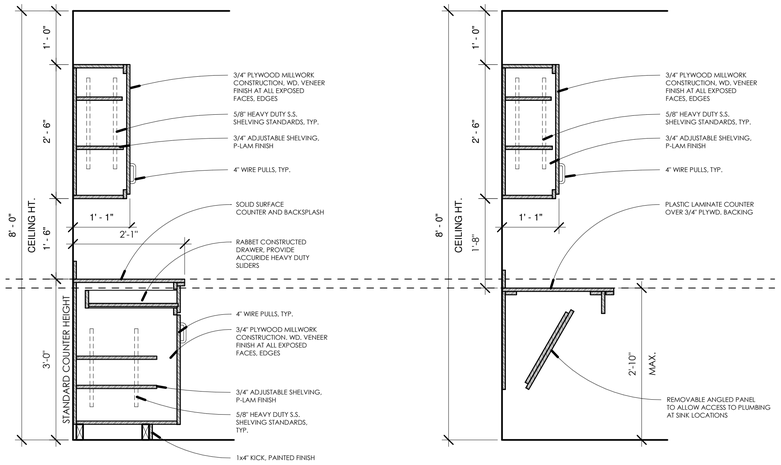
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Date	08.14.24

A4.33

Comission no. 24022M

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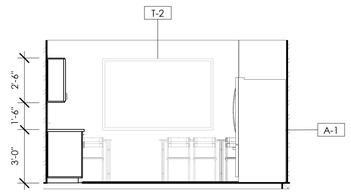
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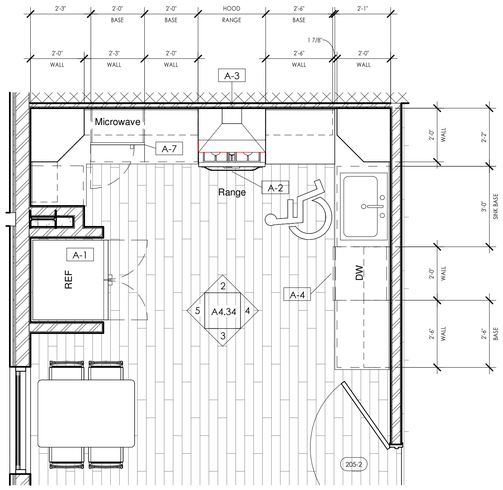
6 CASEWORK DETAILS
3/4" = 1'-0"



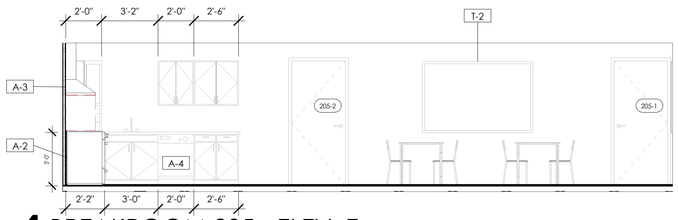
5 BREAKROOM 205 - ELEV. W
1/4" = 1'-0"



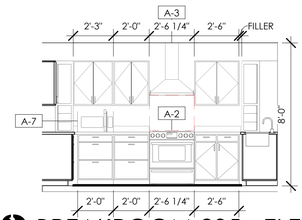
3 BREAKROOM 205 - ELEV. S
1/4" = 1'-0"



1 ENLARGED VIEW - BREAKROOM 205
3/8" = 1'-0"



4 BREAKROOM 205 - ELEV. E
1/4" = 1'-0"



2 BREAKROOM 205 - ELEV. N
1/4" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE

NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

ENLARGED FLOOR PLANS AND ELEVATIONS - BREAKROOM

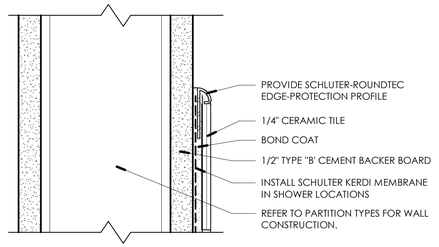
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Date	08.14.24

A4.34

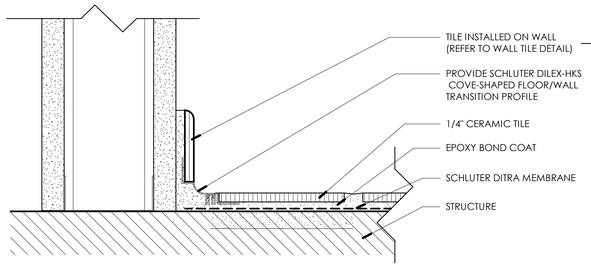
Comission no. 24022M

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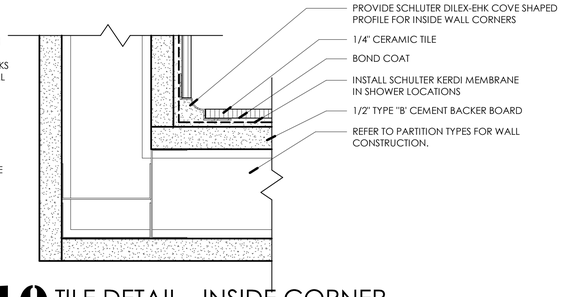
INTERIOR DETAILS



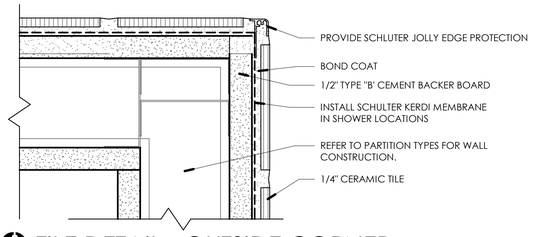
12 TILE DETAIL - WALL CAP
6" = 1'-0"



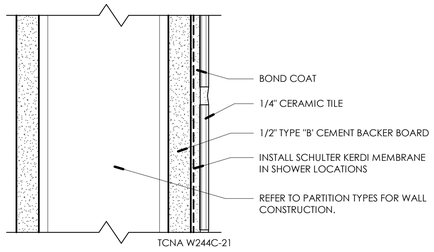
11 TILE DETAIL - FLOOR/WALL TRANSITION
6" = 1'-0"



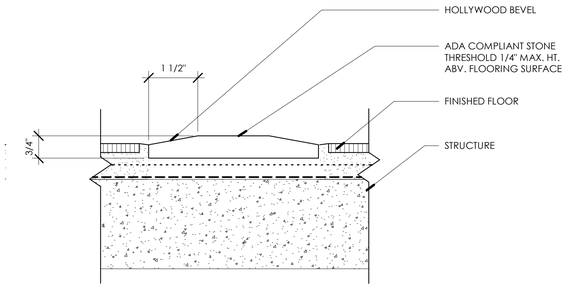
10 TILE DETAIL - INSIDE CORNER
6" = 1'-0"



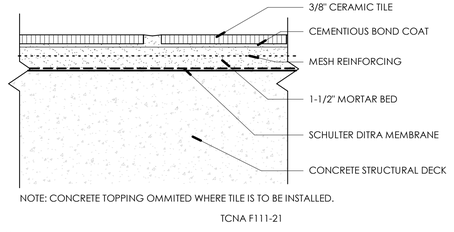
9 TILE DETAIL - OUTSIDE CORNER
6" = 1'-0"



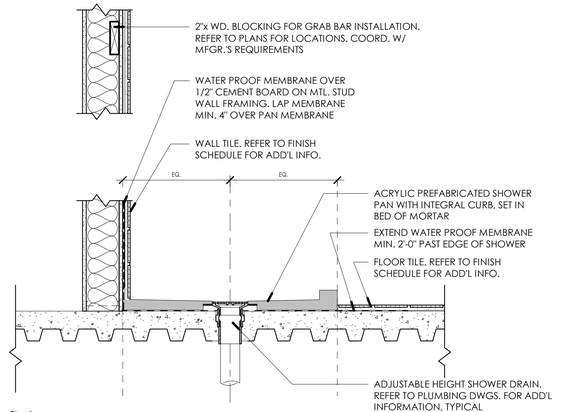
8 TILE DETAIL - WALL
6" = 1'-0"



7 TILE DETAIL - THRESHOLD
6" = 1'-0"

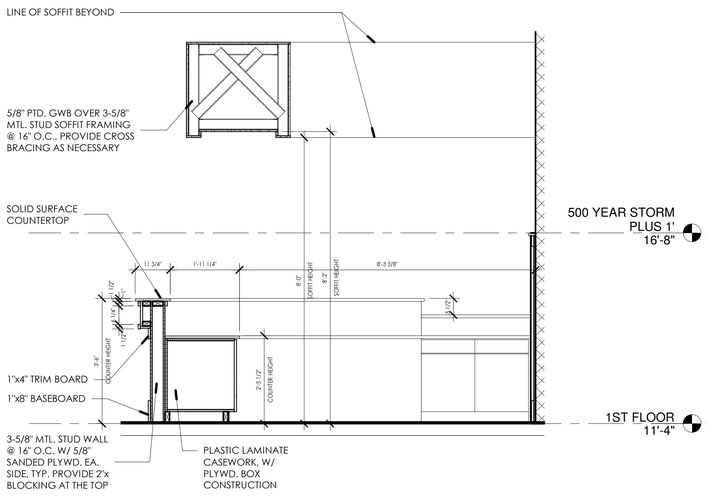


6 TILE DETAIL - TILE ON CONCRETE
6" = 1'-0"

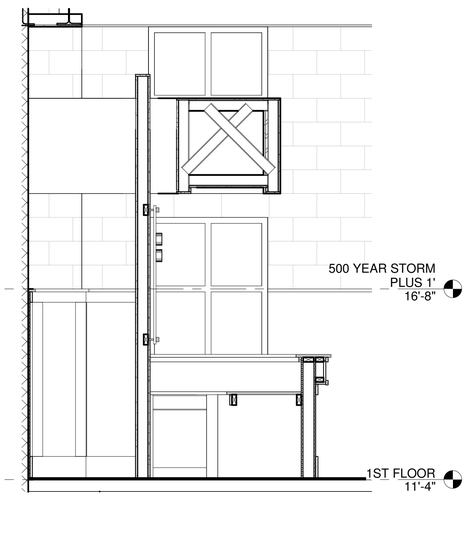


5 SHOWER PAN DETAIL
1" = 1'-0"

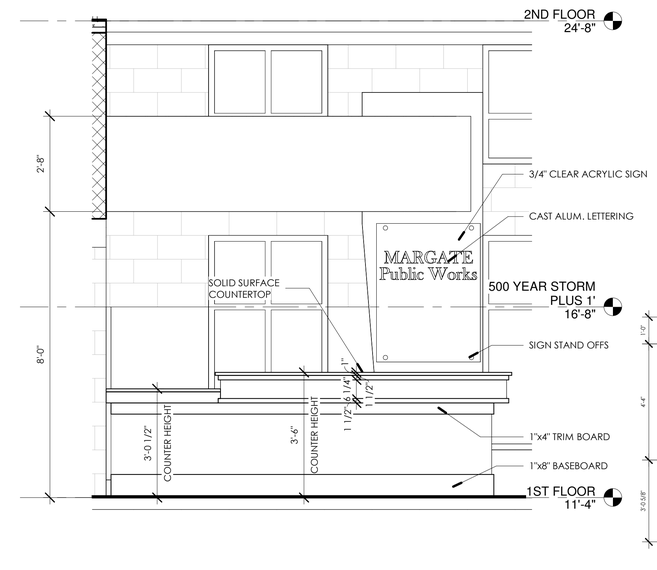
RECEPTION DESK DETAILS



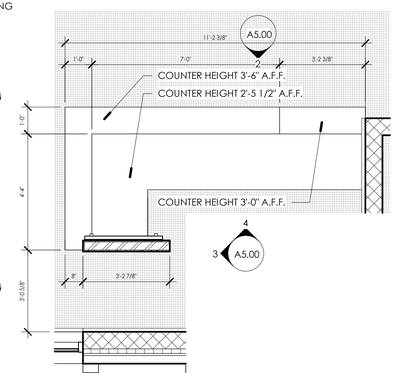
4 RECEPTION DESK ELEVATION/SECTION A
1/2" = 1'-0"



3 RECEPTION DESK ELEVATION/SECTION B
1/2" = 1'-0"



2 RECEPTION DESK ELEVATION
1/2" = 1'-0"



1 ENLARGED PLAN - RECEPTION DESK
3/8" = 1'-0"

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New Jersey State Certificate of Authorization # 21AC00055500

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

INTERIOR DETAILS

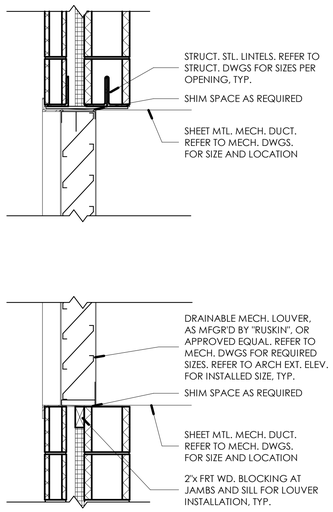
Scale	As indicated
Drawn by	DAD
Date	08.14.24

A5.00

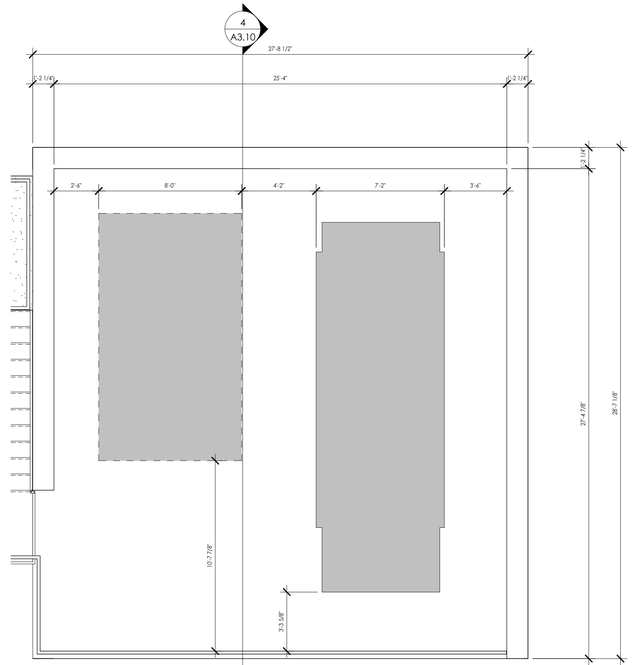
Comission no. 24022M

Autodesk Docs://Margate Public Works Building/0224M - mcclee C.rvt

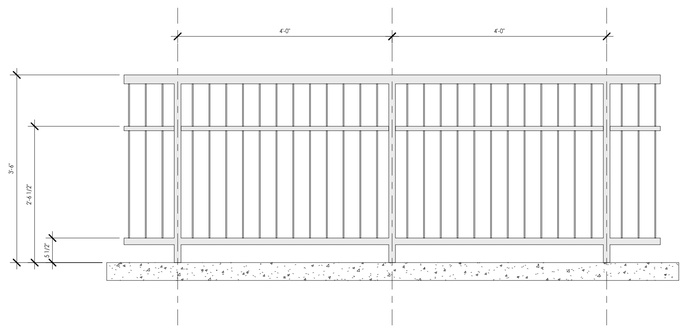
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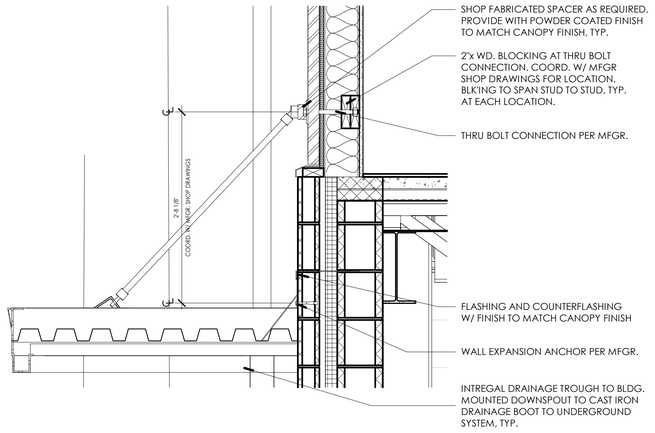
5 LOUVER DETAILS
1" = 1'-0"



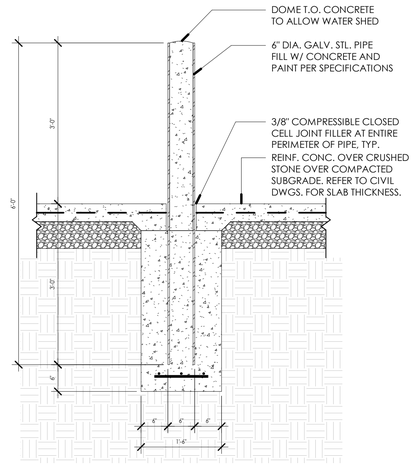
4 ENLARGED FLOOR PLAN - GENERATOR PLATFORM
1/4" = 1'-0"



3 EXTERIOR RAILING DETAIL
3/4" = 1'-0"



2 PREFABRICATED CANOPY DETAIL
1" = 1'-0"



1 BOLLARD DETAIL
3/4" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

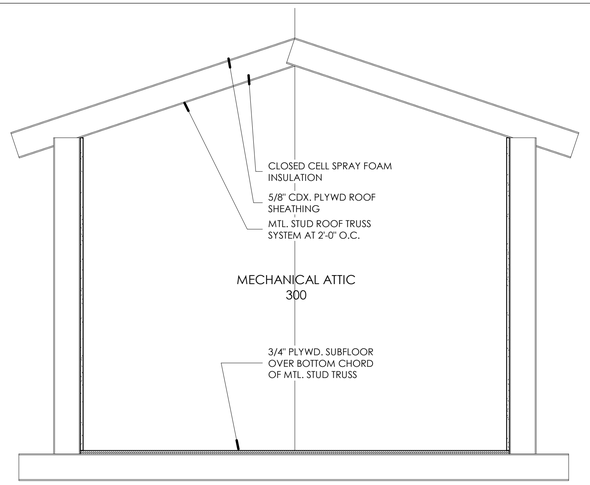
EXTERIOR DETAILS

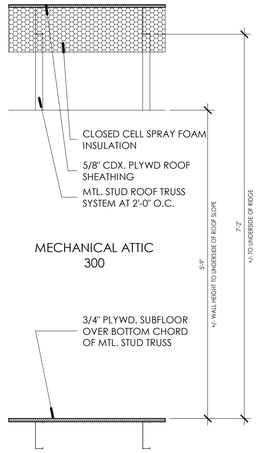
Scale	As indicated
Drawn by	DAD
Date	08.14.24

A5.01

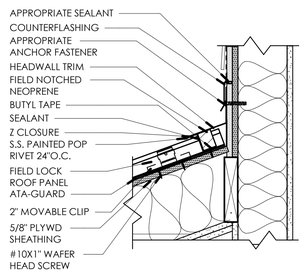
Comission no. 24022M

Autodesk Docs://Margate Public Works Building/22ZM - model C.rvt
7/14/2026 10:29:27 AM

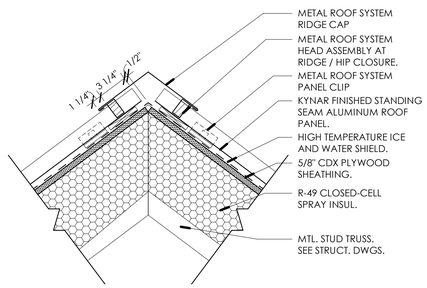




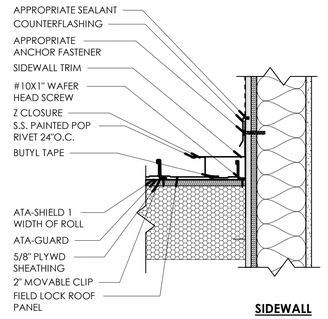
9 MECH. ATTIC FLOOR DETAIL
3/4" = 1'-0"



HEADWALL

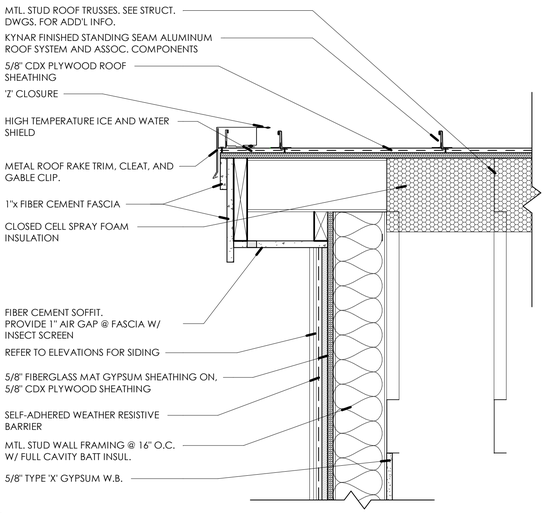


RIDGE

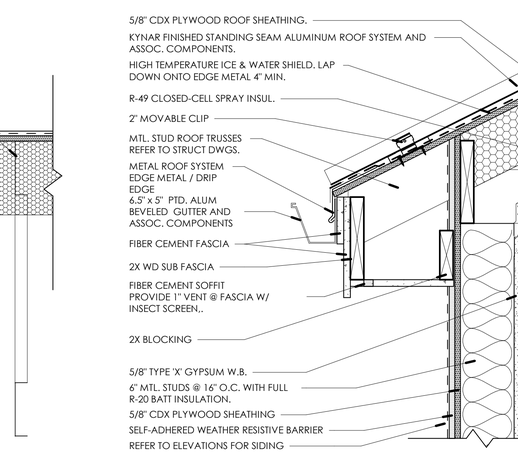


SIDEWALL

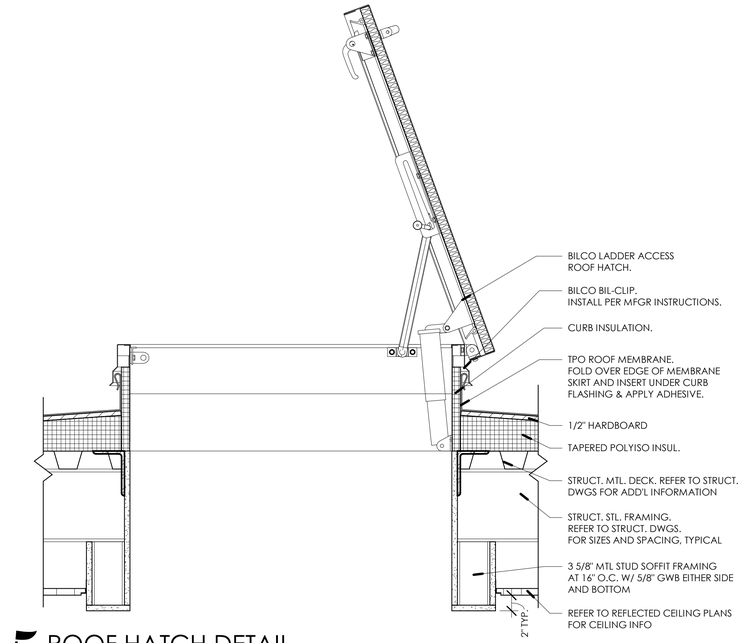
8 TYPICAL METAL ROOF DETAILS
1 1/2" = 1'-0"



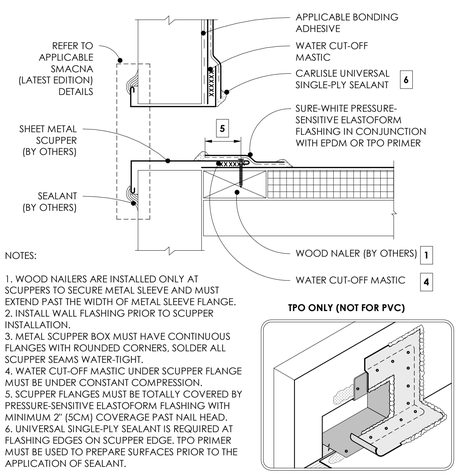
7 METAL ROOF DETAIL - GABLE END
1 1/2" = 1'-0"



6 METAL ROOF DETAIL - EAVE/GUTTER
1 1/2" = 1'-0"



5 ROOF HATCH DETAIL
1 1/2" = 1'-0"

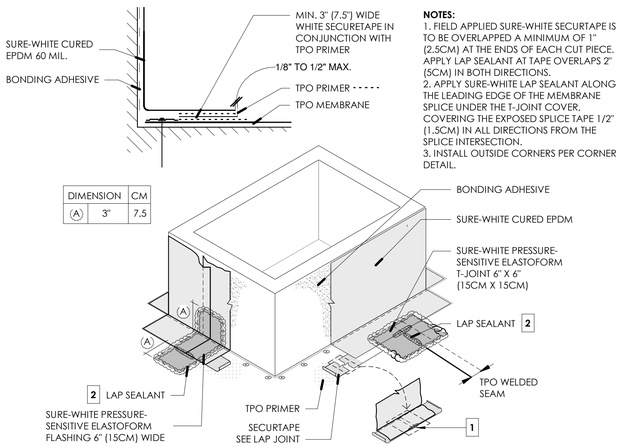


NOTES:

1. WOOD NAILERS ARE INSTALLED ONLY AT SCUPPERS TO SECURE METAL SLEEVE AND MUST EXTEND PAST THE WIDTH OF METAL SLEEVE FLANGE.
2. INSTALL WALL FLASHING PRIOR TO SCUPPER INSTALLATION.
3. METAL SCUPPER BOX MUST HAVE CONTINUOUS FLANGES WITH ROUNDED CORNERS. SOLDER ALL SCUPPER SEAMS WATER-TIGHT.
4. WATER CUT-OFF MASTIC UNDER SCUPPER FLANGE MUST BE UNDER CONSTANT COMPRESSION.
5. SCUPPER FLANGES MUST BE TOTALLY COVERED BY PRESSURE-SENSITIVE ELASTOFORM FLASHING WITH MINIMUM 2" (5CM) COVERAGE PAST NAIL HEAD.
6. UNIVERSAL SINGLE-PLY SEALANT IS REQUIRED AT FLASHING EDGES ON SCUPPER EDGE. TPO PRIMER MUST BE USED TO PREPARE SURFACES PRIOR TO THE APPLICATION OF SEALANT.

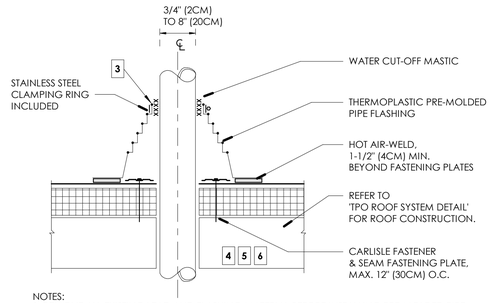
TPO ONLY (NOT FOR PVC)

4 TPO DETAIL AT SCUPPER
3" = 1'-0"



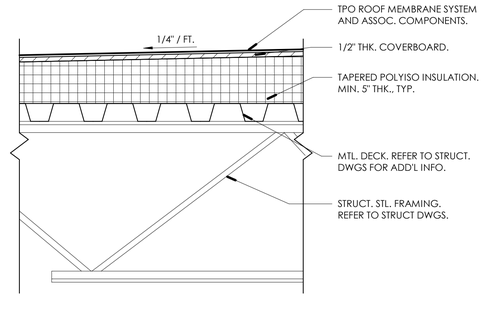
NOTES:
1. FIELD APPLIED SURE-WHITE SECURTAPE IS TO BE OVERLAPPED A MINIMUM OF 1" (2.5CM) AT THE ENDS OF EACH CUT PIECE. APPLY LAP SEALANT AT TAPE OVERLAPS 2" (5CM) IN BOTH DIRECTIONS.
2. APPLY SURE-WHITE LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE UNDER THE T-JOINT COVER, COVERING THE EXPOSED SPLICE TAPE 1/2" (1.5CM) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION.
3. INSTALL OUTSIDE CORNERS PER CORNER DETAIL.

3 TPO ROOF CURB DETAIL
1 1/2" = 1'-0"



NOTES:
1. REMOVE ALL EXISTING LEAD AND FLASHING MATERIAL BEFORE INSTALLING PRE-MOLDED PIPE FLASHING.
2. TEMPERATURE OF THE PIPE PENETRATION MUST NOT EXCEED 140° F (60° C) WHEN USING PVC AND 160° F (71° C) WHEN USING TPO FLASHING.
3. PRE-MOLDED PIPE FLASHING MUST HAVE INTACT RIB AT THE TOP EDGE REGARDLESS OF PIPE DIAMETER.
4. INSTALL A MINIMUM OF 4 FASTENERS AND PLATES AROUND THE PIPE, EQUALLY SPACED. IF FASTENERS AND PLATES CANNOT BE INSTALLED AS SHOWN, THEY MAY ALSO BE POSITIONED OUTSIDE THE PIPE MAXIMUM 12" (30 CM) O.C. AND FLASHED WITH THERMOPLASTIC REINFORCED MEMBRANE / TPO CUT-EDGE SEALANT.
5. FASTENERS AND PLATES ARE NOT REQUIRED ON ADHERED SYSTEMS UNLESS PIPE DIAMETER EXCEEDS 18" (46CM).
6. ON MECHANICALLY FASTENED SYSTEMS. HP-X FASTENERS AND PIRANHA PLATES OR HP-XTRA FASTENERS AND PIRANHA XTRA PLATES ARE REQUIRED OVER STEEL AND WOOD DECKS. ON CONCRETE DECKS, CD-10 OR HD 14-10 FASTENERS ARE USED WITH PIRANHA PLATES.

2 PIPE BOOT DETAIL
3" = 1'-0"



1 TPO ROOF SYSTEM DETAIL
1 1/2" = 1'-0"

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William McLees Architecture, LLC

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

ROOF DETAILS

Scale	As indicated
Drawn by	DAD
Date	08.14.24

A5.10

Comission no. 24022M

7/14/2026 10:29:28 AM

Autodesk Docs://Margate Public Works Building/022ZM - model C.rvt

DOOR SCHEDULE

DOOR NUMBER	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR MAT.	GLAZING TYPE	FRAME MATERIAL	FIRE RATING	THRESHOLD	HARDWARE	NOTES
100-1	3'-0"	7'-2"	1 3/4"	A	FRP	G-A	ALUM.	--	ALUM.	7	
101-1	3'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM	--	MARBLE	11	
102-1	6'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM	--		5	
104-1	3'-0"	7'-0"	1 3/4"	F	FRP	G-C	FIBERGLASS	1 HR		10	FRP DOOR, PEBBLED FINISH
105-1	12'-0"	12'-0"	2"	D	STEEL	G-B	N/A	--		1	
105-2	12'-0"	12'-0"	2"	D	STEEL	G-B	N/A	--		1	
105-3	12'-0"	12'-0"	2"	D	STEEL	G-B	N/A	--		1	
105-4	12'-0"	12'-0"	2"	D	STEEL	G-B	N/A	--		1	
105-5	12'-0"	12'-0"	2"	D	STEEL	G-B	N/A	--		1	
105-6	12'-0"	12'-0"	2"	D	STEEL	G-B	N/A	--		1	
105-7	12'-0"	12'-0"	2"	D	STEEL	G-B	N/A	--		1	
106-1	3'-0"	7'-2"	1 3/4"	A	FRP	G-A	ALUM.	--	ALUM.	7	
106-2	12'-0"	12'-0"	2"	D	STEEL	G-B	N/A	--		1	
106-3	12'-0"	12'-0"	2"	D	STEEL	G-B	N/A	--		1	
106-4	12'-0"	12'-0"	2"	D	STEEL	G-B	N/A	--		1	
106-5	12'-0"	12'-0"	2"	D	STEEL	G-B	N/A	--		1	
106-6	12'-0"	12'-0"	2"	D	STEEL	G-B	N/A	--		1	
200a-1	3'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM	--	MARBLE	11	
200b-1	3'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM	--	MARBLE	11	
200c-1	4'-8"	7'-0"	1 3/4"	E	SCWD	N/A	HM			5	
201a-1	6'-0"	7'-0"	1 3/4"	F	SCWD	N/A	HM	--		5	
201b-1	3'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM	--	MARBLE	4	
202-1	3'-0"	7'-0"	1 3/4"	G	SCWD	G-D	HM		T.S.	9	
202a-1	3'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM	--	MARBLE	11	
202b-1	2'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM			4	
203-1	3'-0"	7'-0"	1 3/4"	G	SCWD	G-D	HM			9	
204-1	3'-0"	7'-0"	1 3/4"	G	SCWD	G-D	HM			3	
204-2	2'-8"	7'-0"	1 3/4"	C	SCWD	N/A	HM			4	
205-1	3'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM	--		8	
205-2	3'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM	--		8	
206-1	3'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM	--	MARBLE	6	
207-1	3'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM	--	MARBLE	6	
208-1	3'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM	--	T.S.	4	
209-1	3'-0"	7'-0"	1 3/4"	C	SCWD	N/A	HM	1 HR	T.S.	4	
209-2	6'-0"	7'-0"	1 3/4"	H	SCWD	N/A	HM	--		2	
210-1	3'-0"	7'-2"	1 3/4"	A	FRP	G-A	ALUM.	--	ALUM.	7	
210-2	8'-0"	7'-0"		H	STEEL	N/A	GALV. STEEL				OVERHEAD COILING DOOR
300-1	3'-0"	5'-0"	1 3/4"	C	SCWD	N/A	HM	1 HR		4	ACCESS DOOR TO ATTIC SPACE
S-1-1	3'-0"	7'-2"	1 3/4"	A	FRP	G-A	ALUM.	1 HR	ALUM.	7	
S-1-2	3'-0"	7'-0"	1 3/4"	F	SCWD	G-C	HM	1 HR		10	
S-1-3	3'-0"	7'-0"	1 3/4"	F	FRP	G-C	FIBERGLASS	1 HR		10	FRP DOOR, PEBBLED FINISH
S-1-4	3'-0"	7'-0"	1 3/4"	F	SCWD	G-C	HM	1 HR		10	
S-2-1	3'-0"	7'-2"	1 3/4"	A	FRP	G-A	ALUM.	1 HR	ALUM.	7	
S-2-2	3'-0"	7'-0"	1 3/4"	F	FRP	G-C	FIBERGLASS	1 HR		10	FRP DOOR, PEBBLED FINISH
S-2-3	3'-0"	7'-0"	1 3/4"	F	SCWD	G-C	HM	1 HR		10	

WINDOW AND DOOR GLAZING SCHEDULE

G-A: 1" INSULATED
EXTERIOR LITE: 1/4" CLEAR TEMP. LOW-E #2 SURFACE
INTERIOR LITE: 1/4" CLEAR TEMP.

G-B: SINGLE PANE: 1/4" CLEAR TEMP.

G-C: SINGLE PANE: 5/16" "FIRELIGHT PLUS" 9AS DISTRIBUTED BY T.G.P. RATING 20 MIN. TO 90 MIN. TO MATCH DOOR RATING

G-D: 1/2" CLEAR LAMINATED

G-E: 1" INSULATED
EXTERIOR LITE: 1/4" CLEAR TEMP.
INTERIOR LITE: 1/2" LAMINATED, TRANSLUCENT

G-F: 1" INSULATED, NO COATINGS

WINDOW/GLAZING NOTES:

1. PROVIDE WIRE MESH SCREENS AT INTERIOR OF WINDOWS AT ALL OPERABLE UNITS.
2. WINDOWS SHOWN AS OPERABLE ARE PROJECT OUT WINDOWS.
3. REFER TO SPECIFICATIONS FOR TRUE DIVIDED LIGHT AND ADHESIVE BACKED MULLION LOCATIONS AT EXTERIOR WINDOW.
4. ALL INTERIOR GLAZING TO BE SAFETY GLAZING.

DOOR GENERAL NOTES

1. ALL EXTERIOR DOORS SHALL BE PROVIDED W/ ADA COMPLIANT THERMALLY BROKEN LATCHING SADDLE THRESHOLD.
2. ALL CLOSERS SHALL BE STOP FACE MOUNTED.
3. ALL FIRE RATED DOORS SHALL HAVE SMOKE SEALS AND SWEEPS UNLESS OTHERWISE NOTED.
4. ALL KEYING FOR LOCKETS SHALL BE COORDINATED WITH OWNER.
5. ALL EXTERIOR DOORS AND JAMB SHALL BE INSULATED.
6. ALL GLASS PRODUCTS INCLUDED IN DOORS AND FRAMES SHALL BE IMPACTED GLASS COMPLIANT WITH NJ IBC 1609.1.2 AT EXTERIOR LOCATIONS OR TEMPERED AT INTERIOR LOCATIONS
7. ALL MATERIALS INDICATED AS FIBERGLASS SHALL BE SOLID FILLED FIBERGLASS PANELS DOORS.
8. DOORS AND FIRE RATED ASSEMBLIES SHALL COMPLY WITH NJ IBC CHAPTER 7
9. ALL H.M. DOORS AND FRAMES TO BE PRIMED AND PAINTED TWO COATS, SEMI-GLOSS FINISH. COLOR TO BE SELECTED BY ARCHITECT.

HARDWARE SCHEDULE

1. TYPE 1- OH SECTIONAL *(GARAGE BAY AREA)*
CONTROL: POWER-OPERATED OH DOOR MOTOR w/ (2) PUSH BUTTON CONTROL PANELS PER OPENING
LOCKSET: JAMB MOUNTED SLIDE BOLT
SEALS: JAMB MTD SWEEPS W/ VINYL BULB DOOR BOTTOM, AS PROVIDED BY MANUFACTURER

2. TYPE 2- INTERIOR DOUBLE *(MECHANICAL)*
LOCKSET: SCHLAGE FULL MORTISE LOCKSET W/ ADA COMPLIANT 'MERANO' LEVER HANDLE. ENTRY FUNCTION
HINGES: FULL MORTISE BALL BEARING HINGES, FBB SERIES
CLOSER: LCN 4000 SERIES
KICK: HAGER 8X FULL WIDTH
DOOR COORDINATOR: ROCKWOOD 576
BOLTS: ROCKWOOD MORTISED LEVER EXT
ASTRAGAL: PEMKO 351 VINYL
STOPS: IVES CONCAVE WALL MTD
SEALS: VINYL BULB

3. TYPE 3- INTERIOR SINGLE *(TRAINING RM)*
LOCKSET: SCHLAGE FULL MORTISE LOCKSET WITH ADA COMPLIANT 'MERANO' LEVER HANDLE. ENTRY FUNCTION
HINGES: FULL MORTISE BALL BEARING HINGES, FBB SERIES BY STANLEY
CLOSER: LCN 4000 SERIES
KICK: HAGER 8X FULL WIDTH
STOPS: IVES CONCAVE WALL MTD
SEALS: CONT. VINYL BULB

4. TYPE 4- INTERIOR SINGLE CLOSET/UTILITY
LOCKSET: SCHLAGE FULL MORTISE LOCKSET WITH ADA COMPLIANT 'MERANO' LEVER HANDLE. STORAGE FUNCTION
HINGES: FULL MORTISE BALL BEARING HINGES, FBB SERIES BY STANLEY
CLOSER: LCN 4000 SERIES
KICK: HAGER 8X FULL WIDTH
STOPS: IVES CONCAVE WALL MTD
SEALS: CONT. VINYL BULB

5. TYPE 5- INTERIOR DOUBLE CLOSET/UTILITY
LOCKSET: SCHLAGE FULL MORTISE LOCKSET W/ ADA COMPLIANT 'MERANO' LEVER HANDLE. STORAGE FUNCTION
HINGES: FULL MORTISE BALL BEARING HINGES, FBB SERIES BY STANLEY
CLOSER: LCN 4000 SERIES
KICK: HAGER 8X FULL WIDTH
DOOR COORDINATOR: ROCKWOOD 576
BOLTS: ROCKWOOD MORTISED LEVER EXT
ASTRAGAL: PEMKO 351 VINYL
STOPS: IVES CONCAVE WALL MTD
SEALS: VINYL BULB

6. TYPE 6- INT. EMPLOYEE RESTROOMS AND SHOWERS/LOCKER RMS.
LOCKSET: SCHLAGE DEADBOLT K-K
PUSH/PULL: ASSA ABLOY APOP3100, APP 3100
HINGES: FULL MORTISE BALL BEARING HINGES, FBB SERIES BY STANLEY
CLOSER: LCN 4000 SERIES
KICK: HAGER 8X FULL WIDTH
STOPS: IVES CONCAVE WALL MTD
SEALS: CONT. VINYL BULB

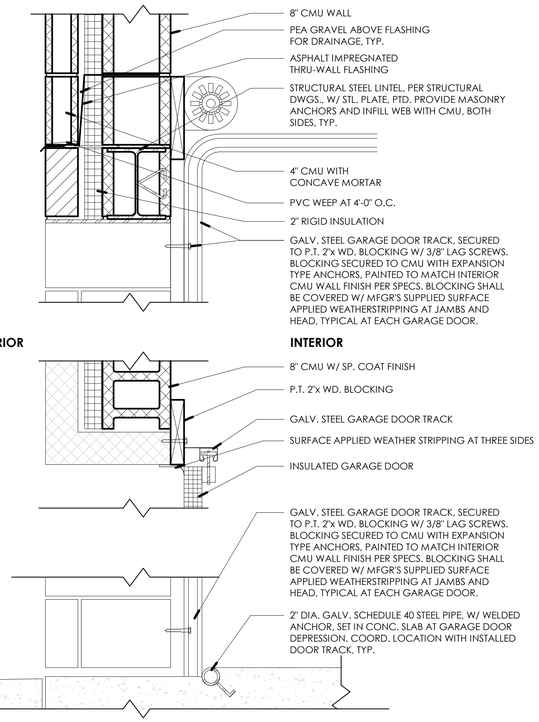
7. TYPE 7- EXTERIOR EXIT PANIC *(STAIRS AND EXIT)*
PANIC DEVICE: SARGENT SERIES 80 RIM MTD PANIC DEVICE WITH ADA COMPLIANT LEVER HANDLE. PROVIDE CARD READER AT EXTERIOR FACE
HINGES: FULL MORTISE BALL BEARING HINGES, FBB SERIES
CLOSER: LCN 4000 SERIES
STOPS: IVES FLOOR MTD
SEALS: CONT. VINYL BULB
THRESHOLD: PEMKO ADA COMPLIANT HALF-SADDLE W/ VINYL BULB INSERT

8. TYPE 8- INTERIOR SINGLE PASSAGE SERVICE
LOCKSET: SCHLAGE FULL MORTISE LOCKSET WITH ADA COMPLIANT 'MERANO' LEVER HANDLE. PASSAGE FUNCTION
HINGES: FULL MORTISE BALL BEARING HINGES, FBB SERIES BY STANLEY
CLOSER: LCN 4000 SERIES
KICK: HAGER 8X FULL WIDTH
STOPS: IVES CONCAVE WALL MTD
SEALS: CONT. VINYL BULB

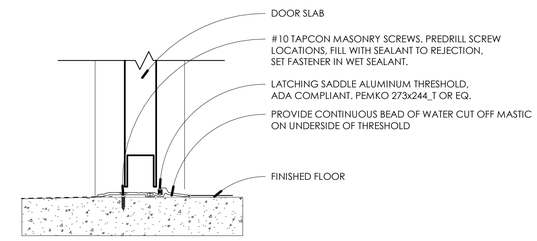
9. TYPE 9- INTERIOR SINGLE OFFICE
LOCKSET: SCHLAGE FULL MORTISE LOCKSET WITH ADA COMPLIANT 'MERANO' LEVER HANDLE. OFFICE FUNCTION
HINGES: FULL MORTISE BALL BEARING HINGES, FBB SERIES BY STANLEY
CLOSER: LCN 4000 SERIES
KICK: HAGER 8X FULL WIDTH
STOPS: IVES CONCAVE WALL MTD
SEALS: CONT. VINYL BULB

10. TYPE 10- INTERIOR EXIT PANIC *(STAIR AND CORRIDOR)*
LOCKSET: SARGENT SERIES 80 RIM MOUNT PANIC DEVICE WITH ADA COMPLIANT LEVER HANDLE
HINGES: FULL MORTISE BALL BEARING HINGES, FBB SERIES
CLOSER: LCN 4000 SERIES
KICK: HAGER 8X FULL WIDTH
STOPS: IVES CONCAVE WALL MTD
SEALS: VINYL BULB

11. TYPE 11- SINGLE TOILET ROOM
LOCKSET: SCHLAGE FULL MORTISE PRIVACY FUNCTION WITH ADA COMPLIANT 'MERANO' LEVER HANDLE
HINGES: FULL MORTISE BALL BEARING HINGES, FBB SERIES
STOPS: IVES CONCAVE WALL MTD
SEALS: VINYL BULB

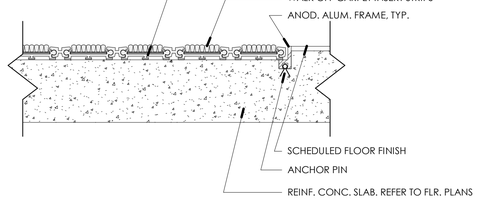


3 GARAGE DOOR DETAIL
1 1/2" = 1'-0"

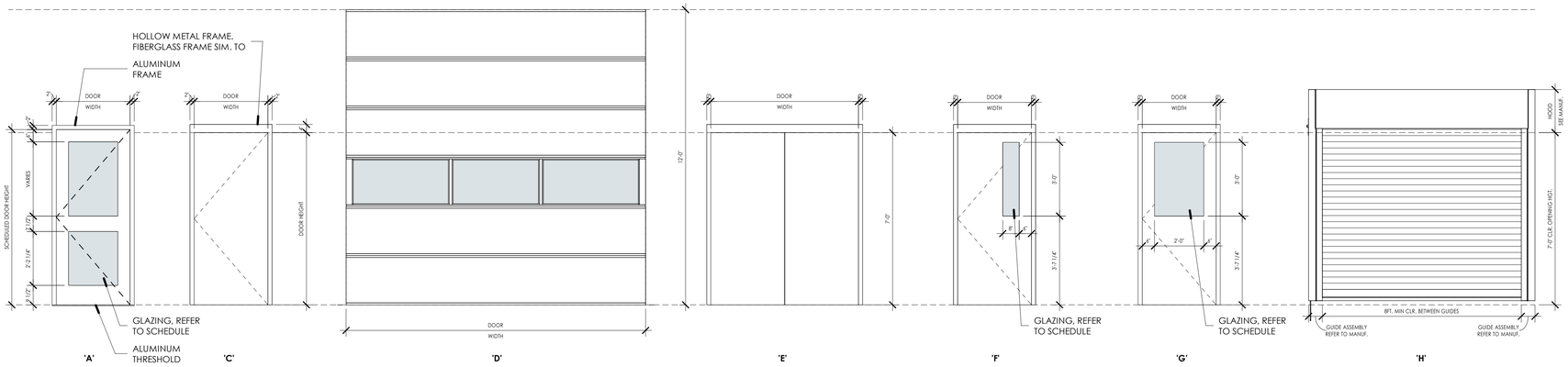


EXTERIOR INTERIOR

1 EXT. THRESHOLD DETAIL
3" = 1'-0"



2 RECESSED ENTRANCE MAT
3" = 1'-0"



DOOR LEGEND
3/8" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE

NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

DOOR SCHEDULE, DOOR TYPES AND DOOR DETAILS

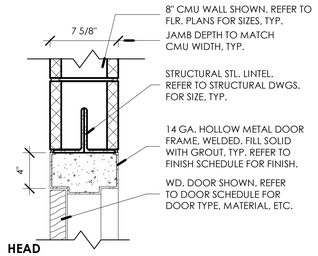
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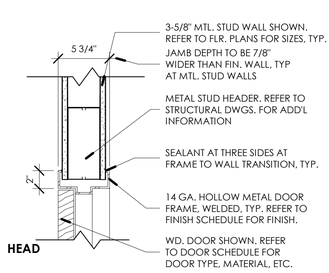
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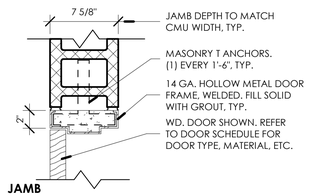
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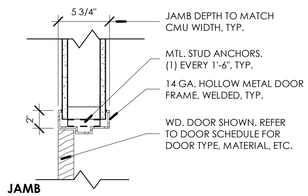
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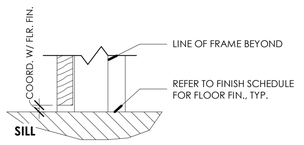
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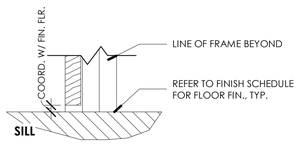








MASONRY WALL

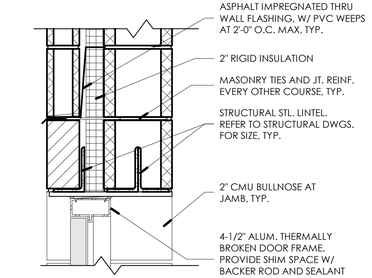


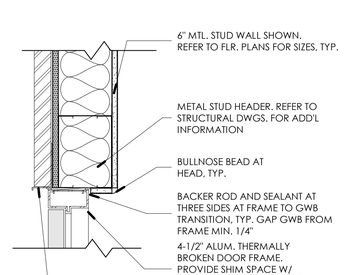
METAL STUD WALL

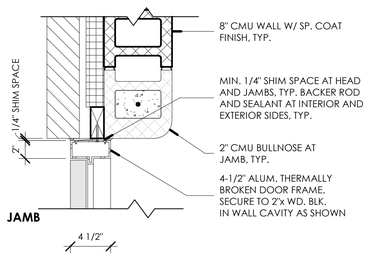
FIBERGLASS FRAMES SIM. TO

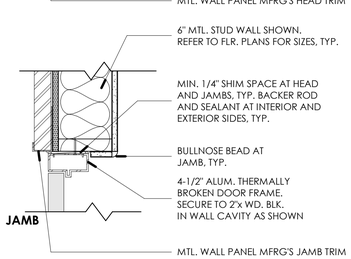
4 H.M. INTERIOR DOOR DETAIL

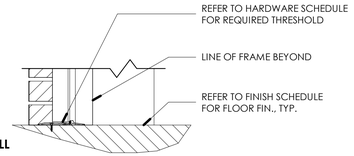
1 1/2" = 1'-0"



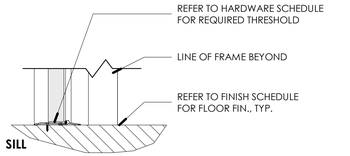








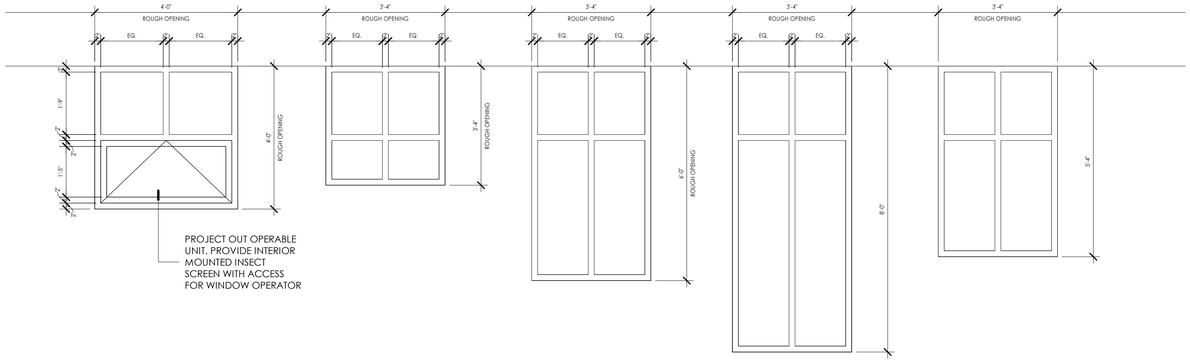
MASONRY WALL



METAL STUD WALL

3 ALUMINUM DOOR DETAIL

1 1/2" = 1'-0"



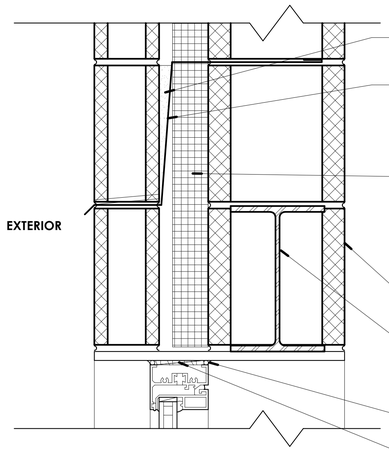
WINDOW TYPE A | WINDOW TYPE B | WINDOW TYPE C | WINDOW TYPE D | WINDOW TYPE E

WINDOW TYPES

1/2" = 1'-0"

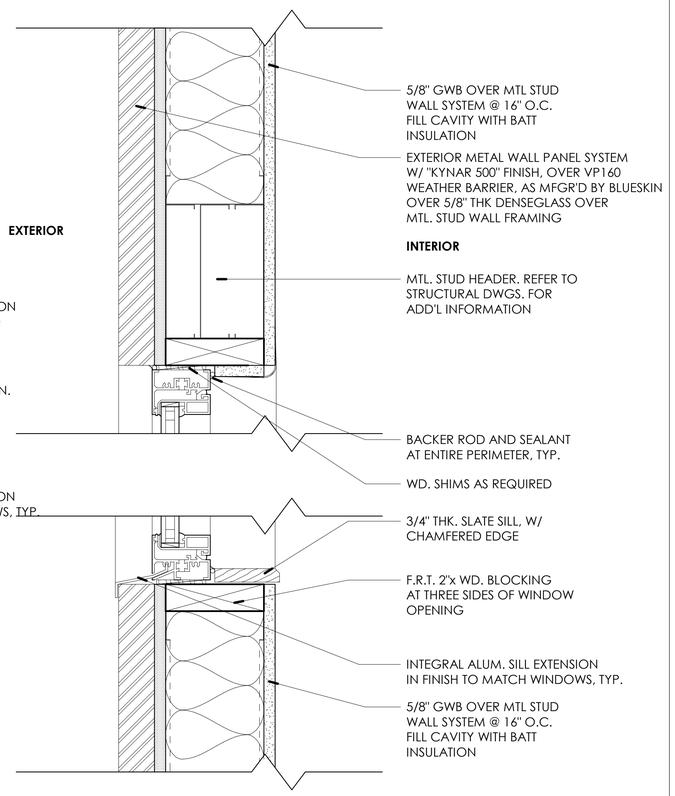
WINDOW NOTES:

1. ALL WINDOWS TO BE 1" CLEAR LOW-E INSULATED GLASS UNLESS OTHERWISE NOTED
2. PROVIDE JAMB EXTENSIONS FOR ALL WINDOWS
3. ALL EXTERIOR WINDOWS TO RECEIVE IMPACT GLAZING
4. ALL WINDOWS LOCATED IN RESTROOM/LOCKER AREAS SHALL BE PROVIDED W/ OBSCURING FRITTING @ ALL LOCATIONS. REFER TO SPECIFICATIONS FOR ADD'L INFORMATION



2 MASONRY WINDOW HEAD/SILL DETAIL

3" = 1'-0"



1 MTL. STUD WINDOW HEAD/SILL DETAIL

3" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE

NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

WINDOW TYPES
WINDOW DETAILS
DOOR DETAILS

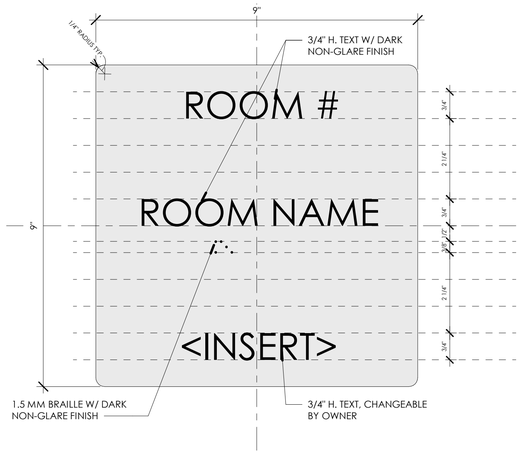
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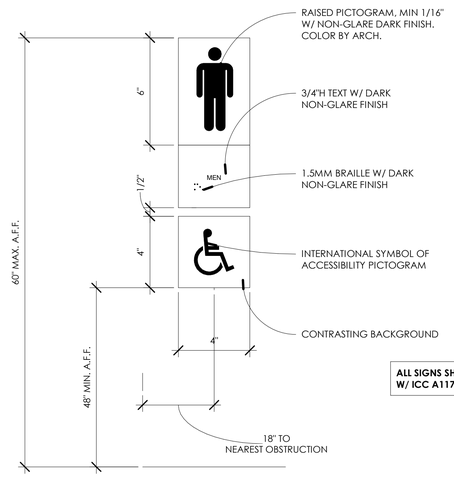
Comission no. 24022M

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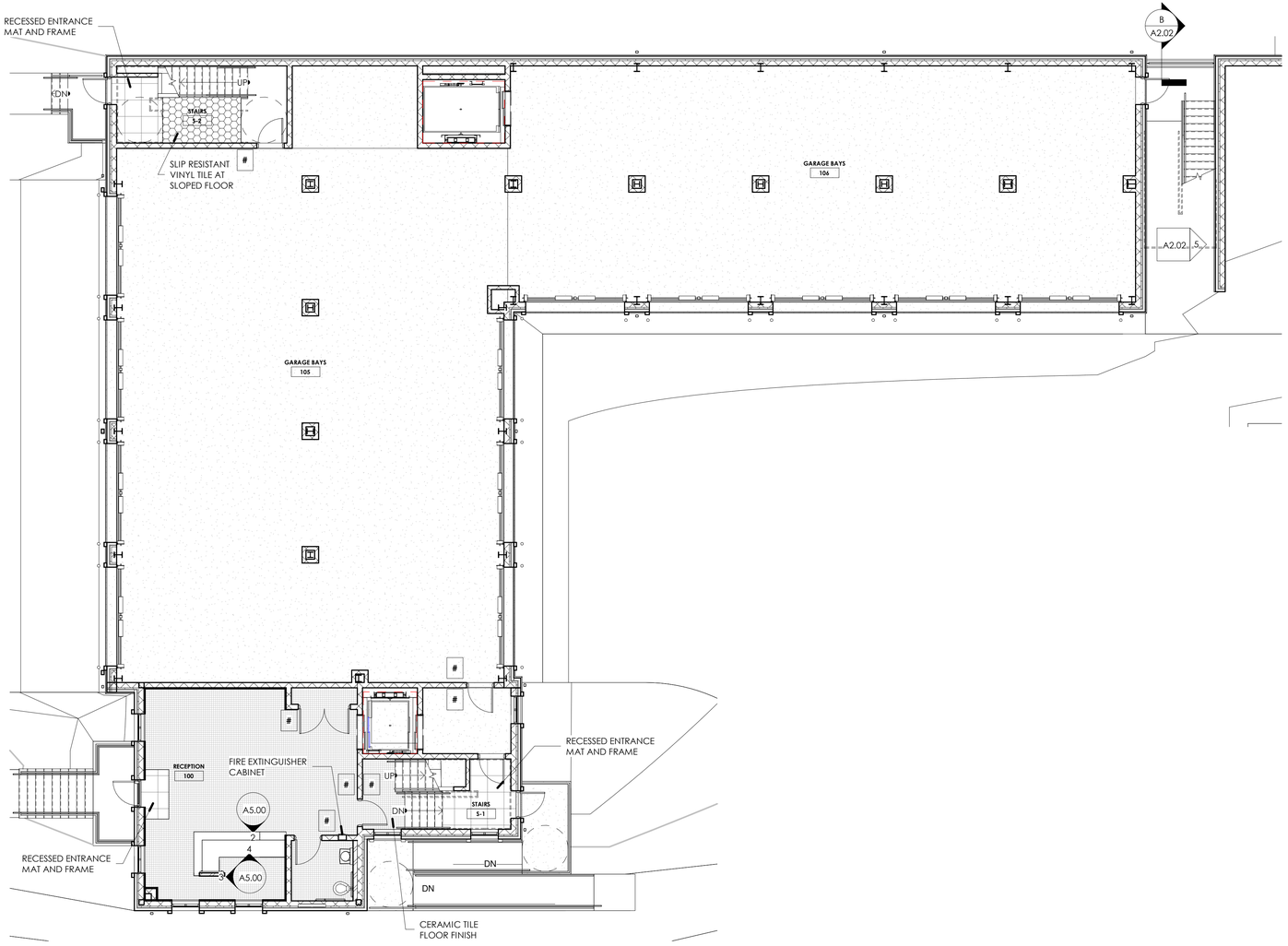


3 INTERIOR ROOM SIGNAGE
6" = 1'-0"



ALL SIGNS SHALL COMPLY W/ ICC A117.1-2024 STANDARDS

2 RESTROOM SIGNAGE DETAIL
3" = 1'-0"



1 FIRST FLOOR - FFE
1/8" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE
NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

FURNITURE, FIXTURES, AND EQUIPMENT FIRST FLOOR

Scale	As indicated
Drawn by	DAD
Date	08.14.24

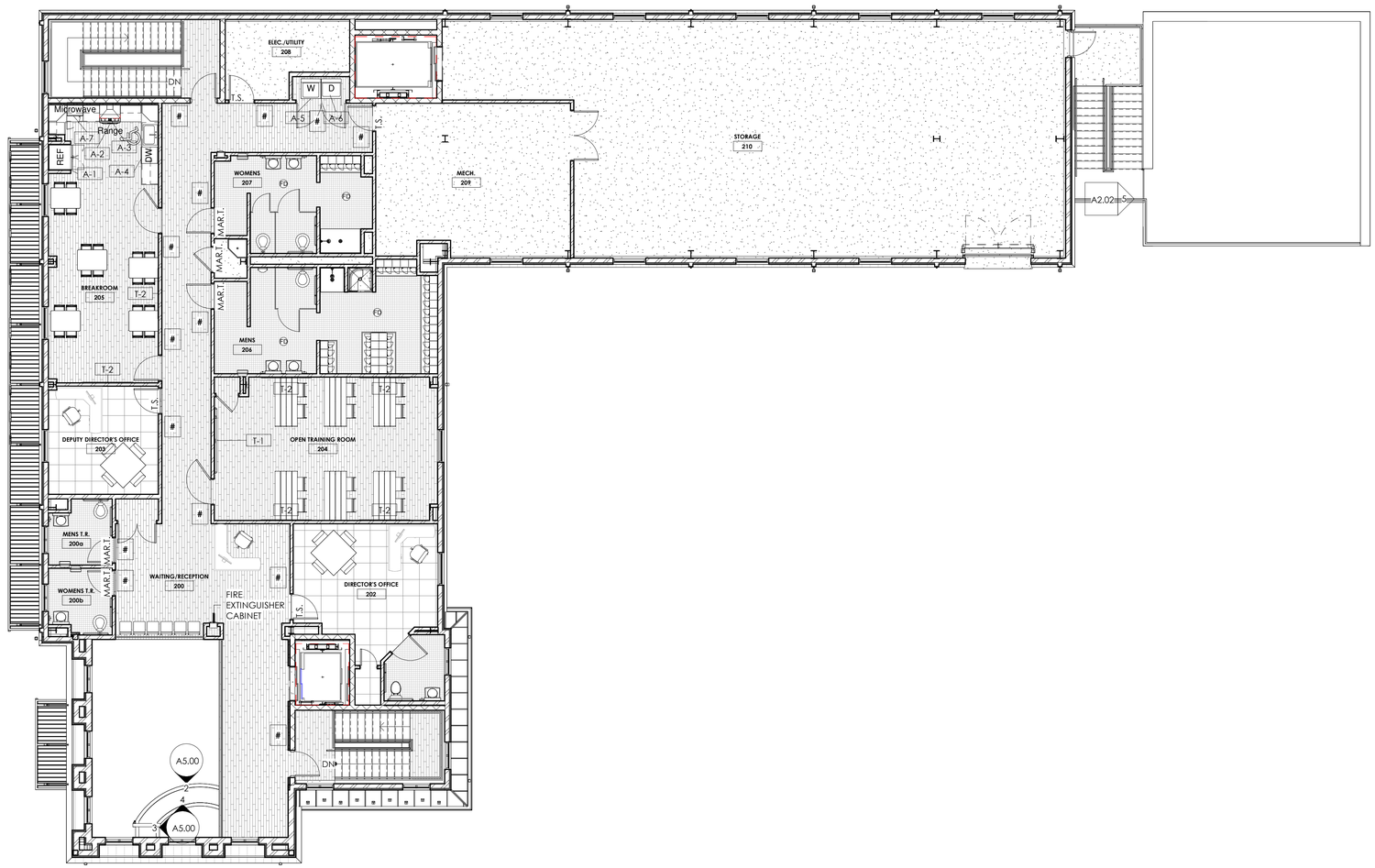
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Comission no. 24022M

Autodesk Docs://Margate Public Works Building/22M - model C_r.rvt
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SPECIALTY EQUIPMENT SCHEDULE

TYPE	ROOM NUMBER	COUNT	DIMENSIONS	DESCRIPTION	COMMENTS
T-1	204	1	4'H x 8'W	SMARTBOARD. REFER TO SPECS. FOR ADD'L INFO	
T-2	204	1	4'H x 6'W	BULLETIN BOARD. ALUM. FRAME. 1/2" CORK PANEL	
T-2	204	1	4'H x 6'W	BULLETIN BOARD. ALUM. FRAME. 1/2" CORK PANEL	
T-2	204	1	4'H x 6'W	BULLETIN BOARD. ALUM. FRAME. 1/2" CORK PANEL	
T-2	204	1	4'H x 6'W	BULLETIN BOARD. ALUM. FRAME. 1/2" CORK PANEL	
T-2	205	1	4'H x 6'W	BULLETIN BOARD. ALUM. FRAME. 1/2" CORK PANEL	
T-2	205	1	4'H x 6'W	BULLETIN BOARD. ALUM. FRAME. 1/2" CORK PANEL	



1 SECOND FLOOR - FFE
1/8" = 1'-0"

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NEW CONSTRUCTION

MARGATE PUBLIC WORKS BUILDING

BENSON AND MONMOUTH AVENUES
BLOCK 324.01
LOT 125

BID ISSUE

NOT FOR CONSTRUCTION

No.	Description	Date
1	RELEASED FOR BID	07.14.26

FURNITURE, FIXTURES, AND EQUIPMENT SECOND FLOOR

Scale	1/8" = 1'-0"
Drawn by	DAD
Date	08.14.24

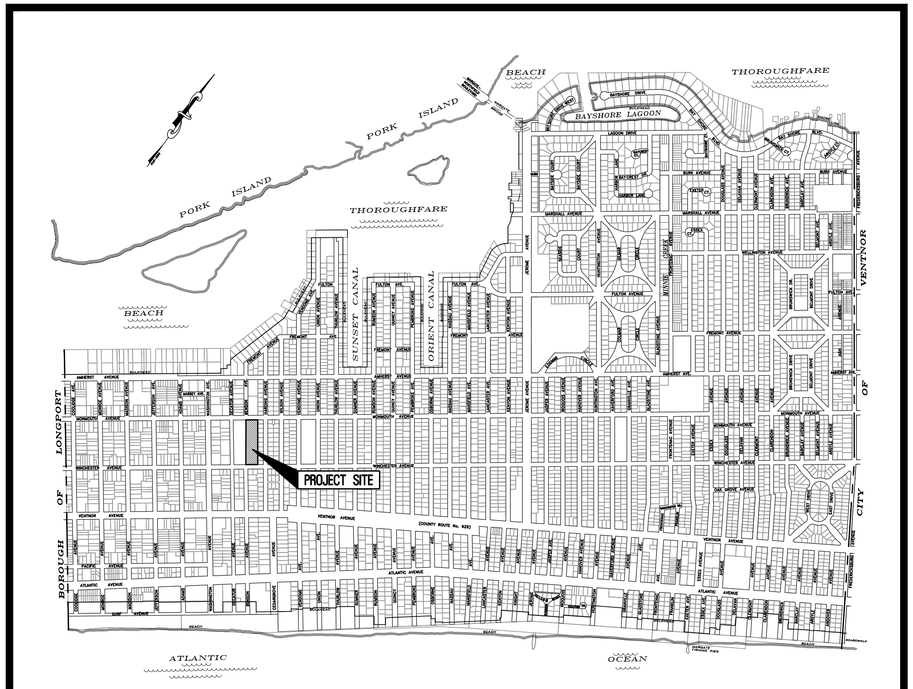
A8.11

Comission no. 24022M

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NEW PUBLIC WORKS BUILDING

LIST OF UTILITIES AND EMERGENCY CONTACT INFORMATION	
FIRE DEPARTMENT:	**MARGATE CITY FIRE DEPARTMENT** 1 S. WASHINGTON AVENUE MARGATE, NJ 08402 609-822-5562
POLICE DEPARTMENT:	**MARGATE CITY POLICE DEPARTMENT** 111 N. DECATUR AVENUE MARGATE, NJ 08402 609-822-1151
SANITARY SEWER AND WATER:	**MARGATE PUBLIC WORKS DEPARTMENT** BENSON & WINCHESTER AVENUES MARGATE, NJ 08402 609-822-5038
SANITARY SEWER:	**ATLANTIC COUNTY UTILITIES AUTHORITY** 6700 DELILAH ROAD EGG HARBOR TOWNSHIP, NJ 08234 609-272-6935
ELECTRIC:	**ATLANTIC CITY ELECTRIC** 2542 FIRE ROAD EGG HARBOR TOWNSHIP, NJ 08234 609-645-4780
CABLE:	**COMCAST CABLE** 1846 NW BOULEVARD VINELAND, NJ 08360 800-934-6489
GAS:	**SOUTH JERSEY GAS** 111 NORTH FRANKLIN AVENUE PLEASANTVILLE, NJ 08232 609-645-2690
TELEPHONE:	**VERIZON ENGINEERING** 10 TANSBORO ROAD BERLIN, NJ 08009 856-306-8611
COUNTY ROADS AND TRAFFIC SIGNALS:	**ATLANTIC COUNTY DEPARTMENT OF REGIONAL PLANNING AND DEVELOPMENT** PO BOX 719 - ROUTE 9 AND DOLPHIN AVENUE NORTHFIELD, NJ 08225 609-645-5898



PROJECT LOCATION MAP

SCALE: 1" = 800'

SHEET INDEX	
SHEET #	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	LEGEND
4	ESTIMATE AND DISTRIBUTION OF QUANTITIES
5	TOPOGRAPHIC OUTBOUND SURVEY
6	DEMO PLAN
7	SITE PLAN
8	GRADING & UTILITY PLAN
9	ADA CURB RAMP DETAILS
10	ADA CURB RAMP TABLES
11 - 13	CONSTRUCTION DETAILS
14	SOIL EROSION & SEDIMENT CONTROL PLAN
15	SOIL EROSION & SEDIMENT CONTROL DETAILS
16	TRAFFIC CONTROL DETAILS

THE ELECTRONIC VERSION OF THE 2019 NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, EFFECTIVE SEPTEMBER 1, 2019, AS REFERENCED IN BASELINE DOCUMENT CHANGE ANNOUNCEMENT BDC19S-01, UNLESS MODIFIED WITHIN THE TECHNICAL SPECIFICATIONS OF THIS CONTRACT, SHALL GOVERN.

THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION\TRAFFIC CONTROL\BRIDGE CONSTRUCTION DETAILS" BOOKLET DATED 2016 AND "ELECTRICAL BUREAU STANDARD DETAILS, 2007" AND ALL BASELINE DOCUMENT CHANGES MADE TO THESE CONSTRUCTION DETAILS, SHALL GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

New Jersey One Call
CALL BEFORE YOU DIG
811 or 1-800-272-1000
ITS THE LAW

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT NJ ONE CALL PRIOR TO THE START OF CONSTRUCTION. CALL FOR MARKOUTS THREE (3) FULL BUSINESS DAYS IN ADVANCE AND BEGIN EXCAVATION WITHIN 10 DAYS. ALL CONTRACTORS ON-SITE MUST HAVE THEIR OWN MARKOUT.

CITY OF MARGATE
ATLANTIC COUNTY, NEW JERSEY

REMINGTON & VERNICK **ENGINEERS**
2819 FIRE ROAD, 1ST FLOOR
EGG HARBOR TOWNSHIP, NJ 08234
(609) 645-7110, FAX (609) 645-7076
WEB ADDRESS : RVE.COM
Certification of Authorization: 24 GA 28003300
Excellence • Innovation • Service

DATE:
NICHOLAS R. DICOSMO
NJ PROFESSIONAL ENGINEER LIC. No. 57899

DATE:
JOSEPH E. JOHNSTON
NJ PROFESSIONAL ENGINEER LIC. No. 35729

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL OR DIGITAL SEAL ARE NOT VALID.

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

No.	REVISION	DATE	BY	CHK
1	REVISED BUILDING LOCATION	6-24-26	GR	JJ

TITLE SHEET

CITY OF MARGATE
NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE
ATLANTIC COUNTY
NEW JERSEY

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
G.E.R.	J.E.J.	N.R.D.	AS NOTED
DATE : 4-14-25		SHEET No. : 1 of 16	
JOB No. : 01-16-U-200			

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GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF THE CONSTRUCTION, ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
2. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. ALL PAVED AND CONCRETE AREAS DISTRIBUTED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION.
5. ALL GRASSED OR WOODED AREAS DISTRIBUTED DURING CONSTRUCTION SHALL BE BACKFILLED, TOPSOILED AND SODDED. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
6. ALL FILL SHALL BE PLACED IN 12" LAYERS AND THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER. IF BORROW FILL IS REQUIRED, IT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF THE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT HIS OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THAT HE DAMAGES. CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY MARKOUTS.
8. BASELINES HAVE BEEN PROVIDED ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE BASELINE AS SHOWN ON THE PLAN.
9. ALL CONSTRUCTION DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH N.J.D.O.T. STANDARDS AS DETAILED IN:
   - "STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS."
   - "ELECTRICAL BUREAU STANDARD DETAILS: 2007."

   INCLUDING ALL APPLICABLE BASELINE DOCUMENT CHANGES AND APPENDICES. THESE DETAILS MAY BE OBTAINED FROM THE N.J.D.O.T. AT: HTTPS://WWW.NJ.GOV/TRANSPORTATION/
10. SEPARATE PAYMENT WILL NOT BE MADE FOR SAW CUTTING OF ANY KIND, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
11. PAYMENT FOR JOINT MATERIAL FOR ALL CONCRETE WORK WILL NOT BE MEASURED BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EXISTING CONCRETE CURB NOT SHOWN TO BE REMOVED. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETE REMOVAL AND REPLACEMENT OF ANY DAMAGED CURB NOT DOCUMENTED PRIOR TO THE START OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
13. THE NEW JERSEY DEPARTMENT OF TRANSPORTATION (NJDOT) STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION EDITION 2019 ALONG WITH THE 2019 SPECIAL PROVISIONS AS MODIFIED SHALL GOVERN THIS PROJECT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED IN THE PLANS AND SPECIFICATIONS. SEPARATE PAYMENT FOR ALL ASSOCIATED COSTS WILL NOT BE MADE, BUT SHALL BE INCLUDED UNDER VARIOUS ITEMS OF THE PROPOSAL.
15. CONTRACTOR IS RESPONSIBLE TO ENSURE POSITIVE DRAINAGE ALONG ALL ROADWAYS TO BE RECONSTRUCTED. THE CONTRACTOR SHALL PROVIDE ELEVATIONS AT ALL DEPRESSED CURB LOCATIONS ASSOCIATED WITH THE ADA RAMPS TO ENSURE POSITIVE DRAINAGE ADJACENT TO THE RAMP AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. SEPARATE PAYMENT WILL NOT BE MADE FOR PROVIDING PROPOSED ELEVATIONS BUT ALL COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
16. CONTRACTOR SHALL RESTORE ALL EXISTING FEATURES DISTURBED DURING CONSTRUCTION (I.E. MAILBOXES, IRRIGATION SYSTEMS, LANDSCAPING, ETC.). ALL COSTS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR SITE WORK.
17. THE CONTRACTOR SHALL ANTICIPATE GROUND WATER INFILTRATION INTO ALL OF THE SEWER/STORM SEWER PIPES, INLETS AND MANHOLES WHEN PERFORMING THE VARIOUS TASKS ASSOCIATED WITH THIS PROJECT. ALL COSTS ASSOCIATED WITH THE TEMPORARY BYPASS PUMPING AND OR DEWATERING SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
18. ALL UTILITY WORK SHALL BE CONSTRUCTED TO ALLOW UNINTERRUPTED SERVICE TO ADJACENT PROPERTIES.
19. EXISTING WATER MAIN, SANITARY SEWER, GAS MAIN STORM SEWER AND ALL OTHER UTILITIES SHALL BE FULLY SUPPORTED AND MAINTAINED DURING INSTALLATION OF THE PROPOSED UTILITY WORK, SERVICES AND LATERALS.
20. THE CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING THE PAVED CARTWAY FREE AND CLEAR OF SEDIMENT EACH DAY THE WORK PROGRESSES AND AS OFTEN AS NECESSARY TO KEEP A CLEAN BROOM SWEPT CONDITION AND OR AS DIRECTED BE THE ENGINEER.
21. THE ELEVATION OF THE EXISTING WATER MAIN AS DEPICTED ON THE DRAWINGS IS ASSUMED. CONTRACTOR SHALL CONFIRM ELEVATION OF EXISTING WATER MAIN AND LOCATION OF ALL SERVICE CONNECTION DURING CONSTRUCTION.
22. PROVIDE A SEPARATE TRAFFIC CONTROL/DETOUR PLAN FOR WORK IN EACH ROAD SEGMENT AND INTERSECTION. ALL PLANS SHALL BE APPROVED BY OWNER AND COUNTY (FOR ANY WORK IN COUNTY R.O.W.) PRIOR TO IMPLEMENTATION.
23. PROPOSED FIRE HYDRANT LOCATIONS SHALL BE LOCATED IN FIELD AND LOCATION CONFIRMED WITH MARGATE CITY PUBLIC WORKS AND SUPERINTENDENT PRIOR TO INSTALLING PIPING AND OR ASSEMBLY.
24. ALL UTILITY CROSSINGS/OFFSETS SHALL INCLUDE COMPACTED STABILIZATION MATERIAL FOR FULL LENGTH OF CROSSING.
25. INSTALLATION OF ALL SANITARY SEWER AND MANHOLES SHALL INCLUDE TEMPORARY BY-PASS PUMPING. ALL COSTS ASSOCIATED WITH THE TEMPORARY PUMPING SHALL BE INCLUDED IN THE VARIOUS LINE ITEMS TO INSTALL SAID MATERIALS, COMPLETE.
26. TRAFFIC CONTROL INCLUDING ALL DEVICES SHALL BE PAID UNDER THE APPROPRIATE ITEMS, AND SHALL BE IN ACCORDANCE WITH THE MOST CURRENT M.U.T.C.D. AND N.J.D.O.T. DETAILS.
27. SEPARATE PAYMENT WILL NOT BE MADE FOR EXCAVATION, DEWATERING, FITTINGS, PIPE BEDDING, SHEETING, BRACING, SHORING, INLET CONNECTIONS, TRAPS, AND SUITABLE BACKFILL MATERIAL INVOLVED IN ALL PIPE AND ASSOCIATED STRUCTURES REMOVAL, RECONSTRUCTION AND INSTALLATION, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL REGARDLESS OF DEPTH.
28. THE CONTRACTOR SHALL EXERCISE PARTICULAR CARE, ESPECIALLY AT INTERSECTIONS AND GUTTER LINES, IN MILLING AND CONSTRUCTION OF PAVEMENT TO PROVIDE POSITIVE FLOWING STORMWATER. ANY AREAS WHERE WATER IS IMPOUNDED SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.
29. ALL WORK TO BE COORDINATED WITH SEPARATE CONTRACTORS FOR ONGOING WORK IN AREAS SURROUNDING THE SITES.
30. ALL PEDESTRIAN ACCESS TO SIDEWALKS AND STREETS, INCLUDING CROSSWALKS, CURB RAMP, STREET FURNISHINGS, PEDESTRIAN SIGNALS, PARKING AND OTHER COMPONENTS OF PEDESTRIAN ACCESS PROPOSED IN THE RIGHT-OF-WAY ARE TO BE IN ACCORDANCE WITH ADA & ABA ACCESSIBILITY GUIDELINES AND THE CURRENT PUBLIC RIGHTS-OF-WAY GUIDELINES PROPOSED BY THE ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD (ACCESS BOARD).
31. INLETS, AND ALL OTHER UTILITY ACCESS PANELS AND VAULTS, SHALL NOT BE LOCATED WITHIN PUBLIC SIDEWALK CURB RAMPS. CONTRACTOR SHALL ADJUST CURB RAMP LOCATIONS IN THE FIELD WITH THE APPROVAL OF THE ENGINEER TO ACCOMMODATE RECENT UTILITY RELOCATIONS.
32. PAYMENT FOR OBSTRUCTION REMOVAL SUCH AS TREE ROOTS AND EXISTING INFRASTRUCTURE WHICH MAY INTERFERE WITH THE PROPOSED CONSTRUCTION, SHALL BE INCLUDED IN THE ITEM SITE WORK.
33. A MINIMUM OF ONE (1) FOOT OF PAVING SHALL BE REMOVED AROUND THE PERIMETER OF ALL MANHOLE AND INLET CASTINGS TO ENSURE A MINIMUM OF TWO (2) INCHES OF SURFACE COURSE IS PROVIDED AROUND THEM. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR SITE WORK.
34. SEPARATE PAYMENT WILL NOT BE MADE FOR CONSTRUCTION LAYOUT, DUST CONTROL, CLEANING AND RESTORATIONS, SOIL EROSION AND SEDIMENT CONTROL, UNDER LAYER PREPARATION, RELOCATION OF SIGNS OR U.S. MAILBOXES, DEWATERING, CORE DRILLING MANHOLES AND INLETS, BY-PASS PUMPING, ELEVATIONAL ADJUSTMENTS OF CLEANOUTS, GAS VALVE BOXES, WATER METER PITS, OR SPRINKLER HEADS, CONDUCTORS OR CONDUITS DAMAGED DURING CONSTRUCTION, SOD USED FOR RESTORATIONS, OR ANY OTHER STRUCTURES ENCOUNTERED UNLESS OTHERWISE INDICTED ON THE PLAN.
35. AT ALL LIMITS OF PAVING (L.O.P.) THE CONTRACTOR SHALL SAWCUT, TACK COAT AND SEAL TO MATCH EXISTING PAVEMENT. SEPARATE MEASUREMENT AND PAYMENT FOR ALL THIS WORK SHALL NOT BE MADE AND ALL COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE BID.
36. ALL TREE REMOVALS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO REMOVAL. ALL TREE PLANTINGS ARE APPROXIMATE WITH FINAL LOCATIONS TO BE ESTABLISHED IN THE FIELD.
37. THE CONTRACTOR SHALL UTILIZE A QUALIFIED ARBORIST FOR ALL TREE TRIMMINGS.
38. INLET SEDIMENT PROTECTION SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED INLETS AND CATCH BASINS SHOWN ON THE PLANS. SEPARATE PAYMENT WILL NOT BE MADE FOR THIS WORK.
39. THE COUNTY, CITY ENGINEER AND UTILITY MUST BE GIVEN 48 HOURS ADVANCE NOTICE OF STORM/SANITARY SEWER/WATERMAIN WORK AND THE REPRESENTATIVES MUST WITNESS THE WORK AND CONNECTION.
40. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXCESS MATERIAL FROM THE PROJECT SITE AND DISPOSE OF THE MATERIAL IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK.
41. SEVEN DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT CUT SHEETS INDICATING THE PROPOSED CURB, GUTTER, DRIVEWAY AND SIDEWALK GRADES. IF ANY SUCH IS DETERMINED TO BE IMPROPERLY INSTALLED WITHOUT CUT SHEETS, THE CURB, GUTTER, DRIVEWAY AND/OR SIDEWALK SHALL BE REPLACED, BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
42. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SERVICE OF ALL SANITARY SEWER LATERALS AND WATER SERVICES DURING THE COURSE OF CONSTRUCTION.
43. WHERE PROPOSED CONCRETE CURB ABUTS PROPOSED CONCRETE GUTTER, SIDEWALK OR DRIVEWAY, THE CONSTRUCTION METHOD SHALL BE NON-MONOLITHIC EXCEPT AT ACCESSIBLE RAMPS.
44. CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS AS REQUIRED WITH THE APPLICABLE UTILITY COMPANIES. SEPARATE PAYMENT WILL NOT BE MADE FOR THE RELOCATIONS OR COORDINATION OF THE RELOCATIONS.
45. CONTRACTOR SHALL SET ALL MANHOLE CASTINGS AND VALVE BOXES TO BASE PAVING GRADE PRIOR TO THE HOT MIX ASPHALT BASE COURSE PAVING AND SHALL RESET THE MANHOLE CASTINGS AND VALVE BOXES TO FINAL PAVING GRADE A MAXIMUM OF ONE WEEK PRIOR TO THE SURFACE COURSE BEING PAVED. SEPARATE PAYMENT WILL NOT BE MADE FOR THIS WORK UNLESS INDICATED ON THE PLAN.
46. SEPARATE PAYMENT WILL NOT BE MADE FOR LOADING, HAULING AND PLACEMENT OF EXISTING MATERIALS.
47. EXISTING MATERIALS FROM THE WORK SHALL BE USED TO RAISE THE ROADWAYS AND PROVIDE FOR PROPOSED GRADES WHERE REQUIRED. THE MATERIAL TO BE USED SHALL BE INSPECTED BY THE ENGINEER PRIOR TO PLACEMENT. SEPARATE PAYMENT WILL NOT BE MADE FOR MOVING THE MATERIAL FROM ONE AREA OF A SITE TO OTHER AREAS OF THE SITE.
48. EXISTING ROOF DRAINS WHICH PROJECT THROUGH CURBS ARE TO REMAIN AND NEW CONCRETE CURB SHALL BE POURED AROUND THEM. ROOF DRAINS SHALL BE RESET BY THE CONTRACTOR SO THE INVERT MATCHES THE PROPOSED GUTTER. SEPARATE PAYMENT WILL NOT BE MADE FOR THE RESETTING OF ROOF DRAINS AND THE COST SHALL BE INCLUDED IN THE PRICE OF THE CONCRETE CURB.
49. SIDEWALK AND DRIVEWAYS AREAS THAT ARE REMOVED FOR ANY PORTIONS OF THE PROPOSED WORK SHALL BE MAINTAINED IN A PASSABLE CONDITION AT ALL TIMES.
50. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO COMPLETE THE PROPOSED WORK.
51. THE CONTRACTOR SHALL COORDINATE ALL UTILITY WORK. WATER AND SEWER MAIN SHUT DOWNS SHALL BE COORDINATED WITH THE MARGATE CITY PUBLIC WORKS.
52. THE CONTRACTOR IS ADVISED TO DIG THE NECESSARY TEST HOLES TO INSTALL AND CONNECT THE STORM AND SANITARY SEWER PIPING, WATER PIPING, AND THEIR APPURTENANCES. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK, UNLESS OTHERWISE INDICATED, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS IN THE PROPOSAL.
53. THE CASTINGS AND LIDS FROM INLETS AND MANHOLES THAT ARE SCHEDULED TO BE REMOVED SHALL BE RETURNED TO THE CITY'S PUBLIC WORKS SITE UPON REMOVAL, SHOULD THE CITY WISH TO RETAIN THE CASTINGS AND LIDS.
54. WHEN INSTALLING CONCRETE SIDEWALK OR DRIVEWAY BEHIND CONCRETE CURB, THE CONTRACTOR SHALL SAWCUT THE EXISTING CONCRETE SIDEWALK ALONG THE EXISTING JOINT OR IN LINE WITH THE LANDSCAPE STRIP OR TREE WELLS WHERE NO JOINT EXISTS.
55. THE CONTRACTOR CANNOT DISPOSE OF EXCESS EXCAVATED MATERIAL AT, STOCKPILE CONSTRUCTION MATERIAL AT, OR OBTAIN BORROWED MATERIAL FROM, PROPERTIES THAT ARE LISTED OR ELIGIBLE FOR LISTING ON THE NEW JERSEY OR NATIONAL REGISTERS OF HISTORIC PLACES.
56. NO SEPARATE PAYMENT WILL BE MADE FOR TRENCH EXCAVATION, BEDDING, BACKFILL, OR RESTORATION UNLESS OTHERWISE INDICATED, OR FOR CONNECTING PROPOSED SEWER FACILITIES TO EXISTING OR PROPOSED PIPES, MANHOLES OR OTHER STRUCTURES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE RELATED PAY ITEMS OF THE PROPOSAL.
57. CONTRACTOR SHALL VERIFY THE SIZES OF THE INLET GRATES AND HEAD PIECES PRIOR TO ORDERING NEW CAST IRON CURB PIECES AND BICYCLE SAFE GRATES.

ENVIRONMENTAL COMMITMENTS:

1. IMPLEMENT SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
2. IMPLEMENT STANDARD MEASURE FOR CONSTRUCTION RELATED NOISE AND AIR QUALITY IMPACT CONTROLS.
3. BEST MANAGEMENT PRACTICE WILL BE UTILIZED DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING STORM WATER INLETS AND ENVIRONMENTALLY SENSITIVE AREAS.
4. CONSTRUCTION STAGING ACTIVITIES (INCLUDING STORAGE OF EQUIPMENT, VEHICLES AND MATERIALS) ARE PROHIBITED IN THE ENVIRONMENTALLY SENSITIVE AREA OR GREEN ACRES ENCUMBERED PROPERTIES.

RVE 1901
REMINGTON & VERNICK **ENGINEERS**
2819 FIRE ROAD, 1ST FLOOR
EGG HARBOR TOWNSHIP, NJ 08234
(609) 645-7110, FAX (609) 645-7076
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No.	REVISION	DATE	BY	CHK
1	REVISED BUILDING LOCATION	6-24-26	GR	JJ

GENERAL NOTES

CITY OF MARGATE
NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE
ATLANTIC COUNTY NEW JERSEY

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
G.E.R.	J.E.J.	N.R.D.	AS NOTED
DATE : 4-14-25		SHEET No. :	2 of 16
JOB No. : 01-16-U-200			

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STANDARD LEGEND

NOTE: ALL SYMBOLS MAY NOT BE USED

UTILITIES

ITEM	DESCRIPTION	EXISTING	PROPOSED
	OVERHEAD WIRE	OHW	
	SANITARY FORCE MAIN PIPE	FM	FM
	STORM SEWER PIPE ≤12"	D	D
	STORM SEWER PIPE >12"	(SIZE & TYPE)	(SIZE & TYPE)
	GAS SERVICE	G	G
	SANITARY SEWER PIPE ≤12"	S	S
	SANITARY SEWER PIPE >12"	(SIZE & TYPE)	(SIZE & TYPE)
	ELECTRIC SERVICE	E	E
	FIBER OPTIC SERVICE	FO	FO
	TELEPHONE SERVICE	T	T
	COMMUNICATIONS SERVICE	C	C
	IRRIGATION PIPE	IRR	IRR
	WATER SERVICE	W	W
	WATER SHUT-OFF	WSO	
	WATER METER	WM	WM
	WATER VALVE	WV	NEW RESET
	WATER HYDRANT	HYD	NEW RESET
	WELL		
	YARD HYDRANT		
	METER PIT		
	GAS SHUT-OFF	GSO	
	GAS METER	GM	
	GAS VALVE	GV	NEW RESET
	GAS LINE MARKER		
	CLEANOUT	CO	
	SEWER VENT	SV	
	INLET TYPE A		NEW RESET/SET RECONSTRUCT
	INLET TYPE B		NEW RESET/SET RECONSTRUCT
	INLET TYPE E		NEW RESET/SET RECONSTRUCT
	AREA DRAIN	AD	
	MANHOLES	S SANITARY, D DRAINAGE, T TELEPHONE, W WATER, C CATV, UD UNDERDRAIN, E ELECTRIC, G GAS, U UNKNOWN	NEW RESET RECONSTRUCT
	IRRIGATION CONTROL VALVE	ICV	NEW RESET
	IRRIGATION BOX	IB	
	IRRIGATION CONTROL BOX	ICB	
	SPRINKLER HEAD	SH	
	UNKNOWN VALVE	UV	
	COMMUNICATIONS PEDESTAL	CP	
	COMMUNICATIONS LINE MARKER	CM	
	TELEPHONE PEDESTAL	TP	
	TELEPHONE LINE MARKER	TM	
	ELEC. BOX	EB	
	ELEC. METER	EM	
	ELEC. TRANSFORMER PAD	ETP	
	ELEC. VAULT	EV	
	ELEC. LINE MARKER	EM	
	UTILITY POLE	STANDARD, W/ LIGHT, W/ SOLAR	
	GUY ANCHOR	GA	
	ELEC. OUTLET	EO	
	LIGHTS	POLE, AREA	
	VENT	V	
	VENT PIPE	VP	

SURVEY

ITEM	DESCRIPTION	EXISTING	PROPOSED
	CROWS FOOT		
	AERIAL TARGET		
	CONCRETE MONUMENT		■ (SET)
	PK / MAG NAIL DRILL HOLE SPIKE		• (SET)
	DRILL HOLE W/ WINGS		
	STAKE		▲ (SET)
	HUB		△ (SET)
	PIN W/ CAP IRON PIPE IRON PIN		● (SET)
	CROSS CUT		✖ (SET)
	DISK		
	STONE		
	REBAR		
	BASELINE	7+00	8+00
	CENTERLINE		
	EASEMENT		
	RIGHT-OF-WAY		
	PROPERTY BOUNDARY		
	ADJACENT PROPERTY BOUNDARY		
	RAILROAD TRACKS		
	STATE BOUNDARY		
	MUNICIPAL / COUNTY BOUNDARY		

ENVIRONMENTAL

DESCRIPTION	EXISTING	PROPOSED
BORING LOCATION	B-#	B-#
MONITORING WELL LOCATION	MW-#	MW-#
TEST PIT LOCATION	TP-#	TP-#
FRESHWATER WETLAND FLAG	FW-#	
FRESHWATER WETLAND LINE		
FRESHWATER WETLAND BUFFER		
EDGE OF WATER		
STREAM CENTERLINE		

LANDSCAPING

DESCRIPTION	EXISTING	PROPOSED
DECIDUOUS TREE		SHADE, ORNAMENTAL
SHRUBS / BUSH		
EVERGREENS		
STUMP		
WOODS / TREE LINE		
WIRE FENCE		
SPLIT RAIL FENCE		
WOOD / VINYL FENCE		
CHAIN-LINK FENCE	X X X	X X X

GRADING

DESCRIPTION	EXISTING	PROPOSED
TOP OF BANK / DITCH	TB	
BOTTOM OF BANK / DITCH	BB	
CONTOUR (MAJOR)	5	5
CONTOUR (MINOR)	3	3
FLOW LINE / SWALE		
TIME OF CONCENTRATION		
SPOT GRADE	X 3.48	X 3.48
ROADWAY GRADE	TC5.45 GL4.95	TC5.45 GL4.95
DRAINAGE FLOW		

SITE & ROADWORK

DESCRIPTION	EXISTING	PROPOSED
EDGE OF PAVEMENT		
CURB		
PAVEMENT / CONC. / SIDEWALK	BITUMINOUS/ASPHALT, CONCRETE, BRICK/PAVERS, STONE	ASPHALT DRIVEWAY, CONCRETE, BRICK/PAVERS, STONE, MILLING
LIMIT OF EXCAVATION		
GUIDE RAIL		
BOLLARD		
MAILBOX		
SIGNS		
FLAG POLE		
BENCH		
PILE		
DETECTABLE WARNING SURFACE		
TYPICAL STRIPING		
ADA STRIPING		
TRAFFIC CONTROL BOX	TCB	
TRAFFIC LIGHT		(ARM TO SCALE)
DEPT. OF TRANSPORTATION MANHOLE	DOT	
STATE HIGHWAY DEPARTMENT	MANHOLE, BOX	
RAILROAD CROSSING BEACON		
CALL BOX	CB	
OIL FILL	OF	
UNDERGROUND STORAGE TANK LID	UST	
RISER PIPE		
RAISED PAVEMENT MARKER		

MISC.

DESCRIPTION	EXISTING	PROPOSED
BBQ GRILL		
WATER FOUNTAIN	WF	
KIOSK		
AIR CONDITIONER	AC	
PARKING METER		
FIRE CONTROL VALVE		
BARRICADE		

GENERAL

DESCRIPTION	EXISTING	PROPOSED
PHOTO LOCATION		#
BENCHMARK LOCATION	BM X	
TYPICAL SECTION ARROW		A
MATCH LINE		
TYPICAL NORTH ARROW	NAD-1983	

NORTH POINT TO BE USED ON STANDARD CONSTRUCTION SHEETS WHERE BEARINGS REFER TO STATE PLANE COORDINATE SYSTEM.

ABBREVIATIONS

APR.	APRON	E.B., W.B., N.B., S.B.	EASTBOUND, WESTBOUND, NORTHBOUND, SOUTHBOUND	PC	POINT OF CURVATURE	S.H.D.	STATE HIGHWAY DEPARTMENT
BL	BASELINE	G	GUTTER	PI	POINT OF INFLECTION	SHLD.	SHOULDER
BM	BENCH MARK	GR	GRATE	PT	POINT OF TANGENCY	STY.	STORY
BIT.	BITUMINOUS	HW	HEADWALL	PK	PARKER KAYLON MASONRY NAIL	T.B.A.	TO BE ABANDONED
BLDG.	BUILDING	H.D.P.E.	HIGH DENSITY POLYETHYLENE PIPE	PROP.	PROPOSED	T.B.R.	TO BE REMOVED
CL	CENTERLINE	INV.	INVERT	P.V.C.	POLYVINYL CHLORIDE PIPE	TC	TOP OF CURB
C.I.P.	CAST IRON PIPE	IP	IRON PIN	PVC	POINT OF VERTICAL CURVATURE	TEL	TELEPHONE
CONC.	CONCRETE	J.B.	JUNCTION BOX	PVI	POINT OF VERTICAL INTERSECTION	TEMP.	TEMPORARY
C.M.P.	CORRUGATED METAL PIPE	L.S.T.	LANDSCAPE TIE	PVT	POINT OF VERTICAL TANGENCY	TYP.	TYPICAL
CULV.	CULVERT	L.O.M.	LIMIT OF MILLING	R	RADIUS	U.D.	UNDERDRAIN
D.C.	DEPRESSED CURB	L.O.P.	LIMIT OF PAVING	R.C.P.	REINFORCED CONCRETE PIPE	U.P.	UTILITY POLE
DH	DRILL HOLE	MB	MAILBOX	RMC	RIGID METALLIC OCNDUIT	VAR.	VARIES
DIA.	DIAMETER	MAX.	MAXIMUM	R.O.W.	RIGHT OF WAY	WM	WATER METER
DWY	DRIVEWAY	MIN.	MINIMUM	R.R.	RAILROAD		
D.I.P.	DUCTILE IRON PIPE	NO.	NUMBER	RTE.	ROUTE		
EL.	ELEVATION	N.T.S.	NOT TO SCALE	SAN.	SANITARY		
EX.	EXISTING	PERF.	PERFORATED	SWK.	SIDEWALK		

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DATE:
NICHOLAS R. DICOSMO
NJ PROFESSIONAL ENGINEER LIC. No. 57899

DATE:
JOSEPH E. JOHNSTON
NJ PROFESSIONAL ENGINEER LIC. No. 35729

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No.	REVISION	DATE	BY	CHK
1	REVISED BUILDING LOCATION	6-24-25	GR	JJ

LEGEND

CITY OF MARGATE
NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE
ATLANTIC COUNTY
NEW JERSEY

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
G.E.R.	J.E.J.	N.R.D.	AS NOTED
DATE : 4-14-25		SHEET No. : 3 of 16	
JOB No. : 01-16-U-200			

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ESTIMATE/DISTRIBUTION OF QUANTITIES

BASE BID

ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	IF & WHERE DIRECTED	CONTRACT QUANTITY	AS-BUILT QUANTITY
1	NEW PUBLIC WORKS BUILDING, COMPLETE, AS SHOWN ON THE PLANS AND INDICATED IN THE SPECIFICATIONS	LUMP SUM	1	0	1	
2	ALLOWANCE	DOLLAR	100,000	0	100,000	
3	NEW PUBLIC WORKS BUILDING FREIGHT ELEVATOR, COMPLETE, AS SHOWN ON THE PLANS AND INDICATED IN THE SPECIFICATIONS	LUMP SUM	0	0	0	

ALTERNATE BID

ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	IF & WHERE DIRECTED	CONTRACT QUANTITY	AS-BUILT QUANTITY
1	NEW PUBLIC WORKS BUILDING, COMPLETE, AS SHOWN ON THE PLANS AND INDICATED IN THE SPECIFICATIONS	LUMP SUM	0	0	0	
2	ALLOWANCE	DOLLAR	100,000	0	100,000	
3	NEW PUBLIC WORKS BUILDING FREIGHT ELEVATOR, COMPLETE, AS SHOWN ON THE PLANS AND INDICATED IN THE SPECIFICATIONS	LUMP SUM	1	0	1	

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No.	REVISION	DATE	BY	CHK
1	REVISED BUILDING LOCATION	6-24-26	GR	JJ

ESTIMATE AND DISTRIBUTION OF QUANTITIES

CITY OF MARGATE

NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE

ATLANTIC COUNTY NEW JERSEY

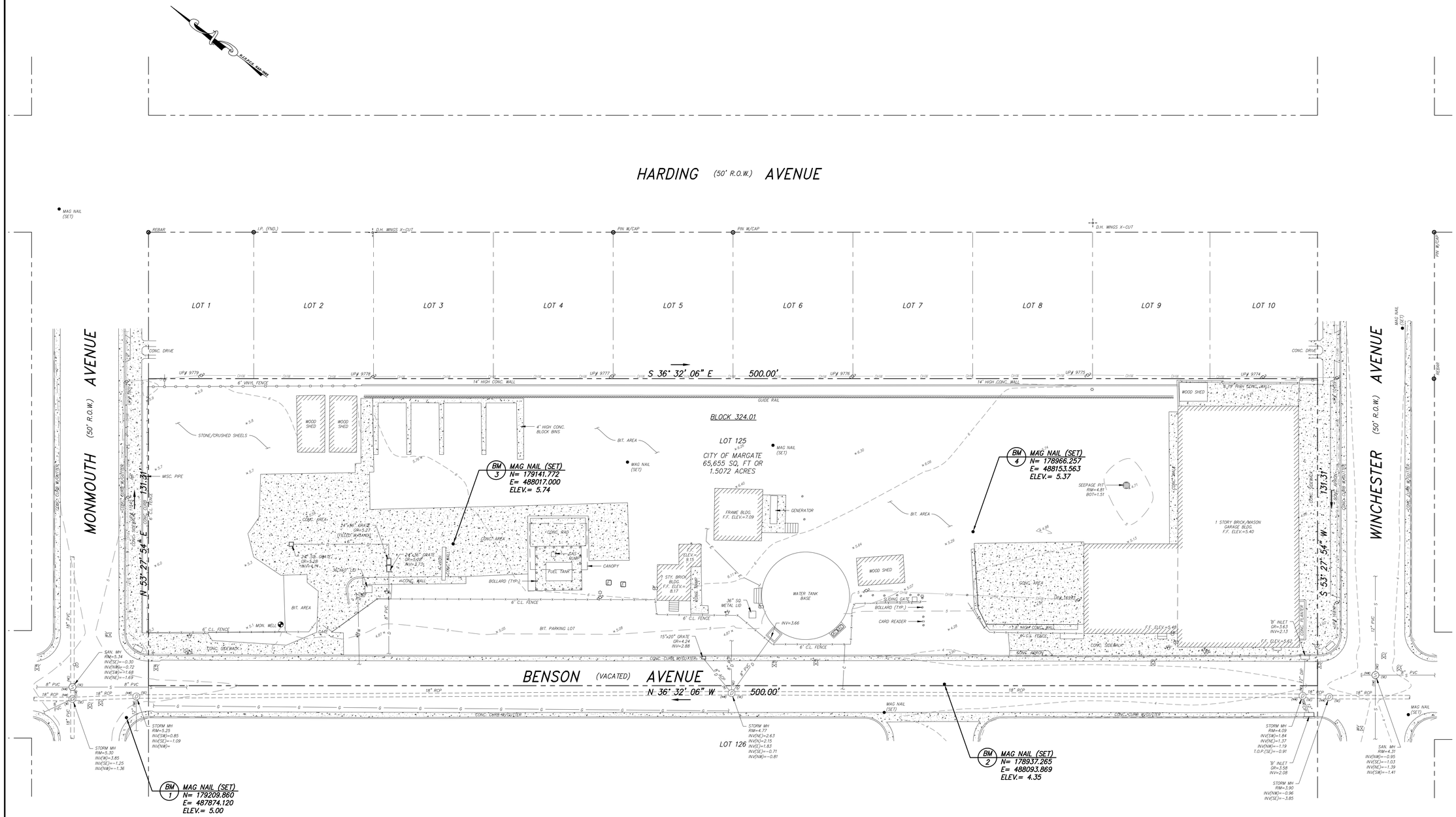
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DATE : 4-14-25

JOB No. : 01-16-U-200

SHEET No. : 4 of 16

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SURVEY NOTES:

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4. THIS PLAN AND SURVEY DOES NOT CERTIFY TO THE LOCATION, BOTH HORIZONTAL AND VERTICAL OF ANY UNDERGROUND UTILITY OR STRUCTURE THAT WAS NOT EXPOSED FOR DIRECT MEASUREMENT.
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TOPOGRAPHIC OUTBOUND SURVEY

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

REMINGTON & VERNICK **ENGINEERS**
2059 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
(856) 795-9595, FAX (856) 795-1882
WEB ADDRESS : RVE.COM
Certification of Authorization: 24 GA 28003300
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DATE

CHARLES E. ADAMSON
NJ PROFESSIONAL LAND SURVEYOR LIC. No. 42627

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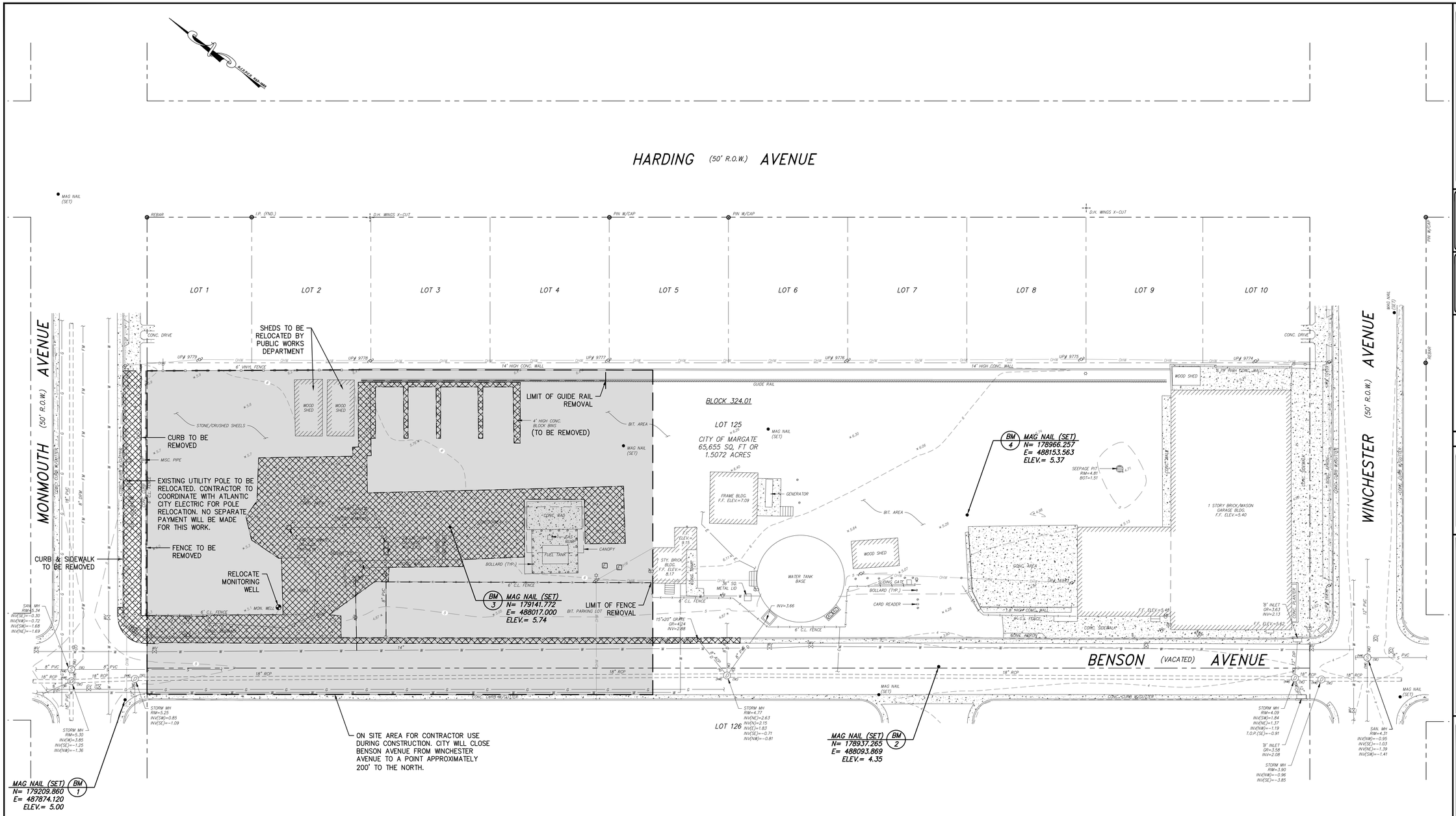
No.	REVISION	DATE	BY	CHK

TOPOGRAPHIC OUTBOUND SURVEY

CITY OF MARGATE
NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE
ATLANTIC COUNTY
NEW JERSEY

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
G.E.R.	C.E.A.	C.E.A.	AS NOTED
DATE : 4-14-25		SHEET No. :	5 of 16
JOB No. : 01-16-U-200			

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DEMO PLAN

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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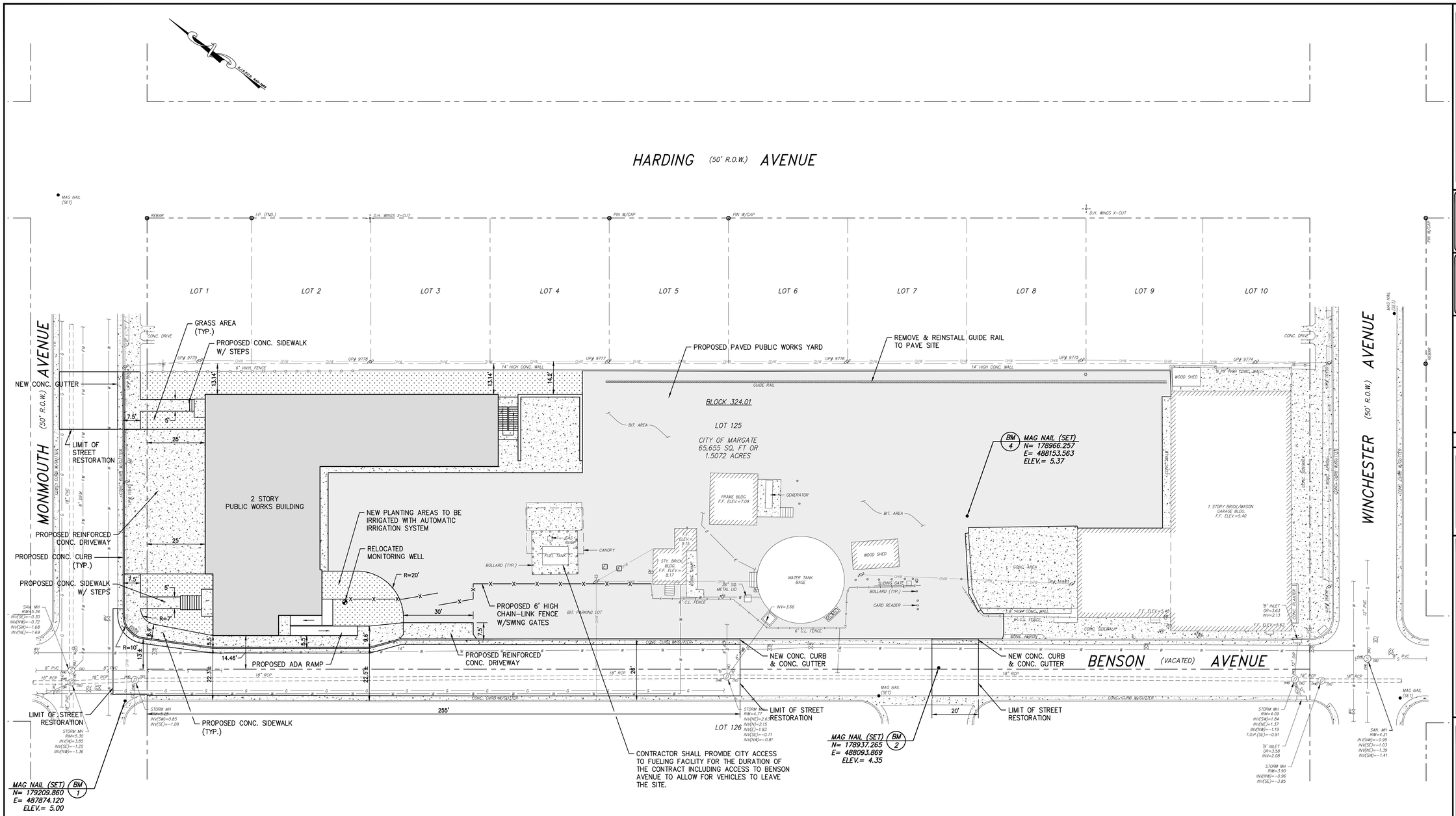
No.	REVISION	DATE	BY	CHK
1	REVISED BUILDING LOCATION	6-24-26	GR	JJ

DEMO PLAN

CITY OF MARGATE
NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE
ATLANTIC COUNTY NEW JERSEY

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
G.E.R.	J.E.J.	N.R.D.	AS NOTED
DATE : 4-14-25			SHEET No. : 6 of 16
JOB No. : 01-16-JI-200			

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SITE PLAN

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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1	REVISED BUILDING LOCATION	6-24-26	GR	JJ

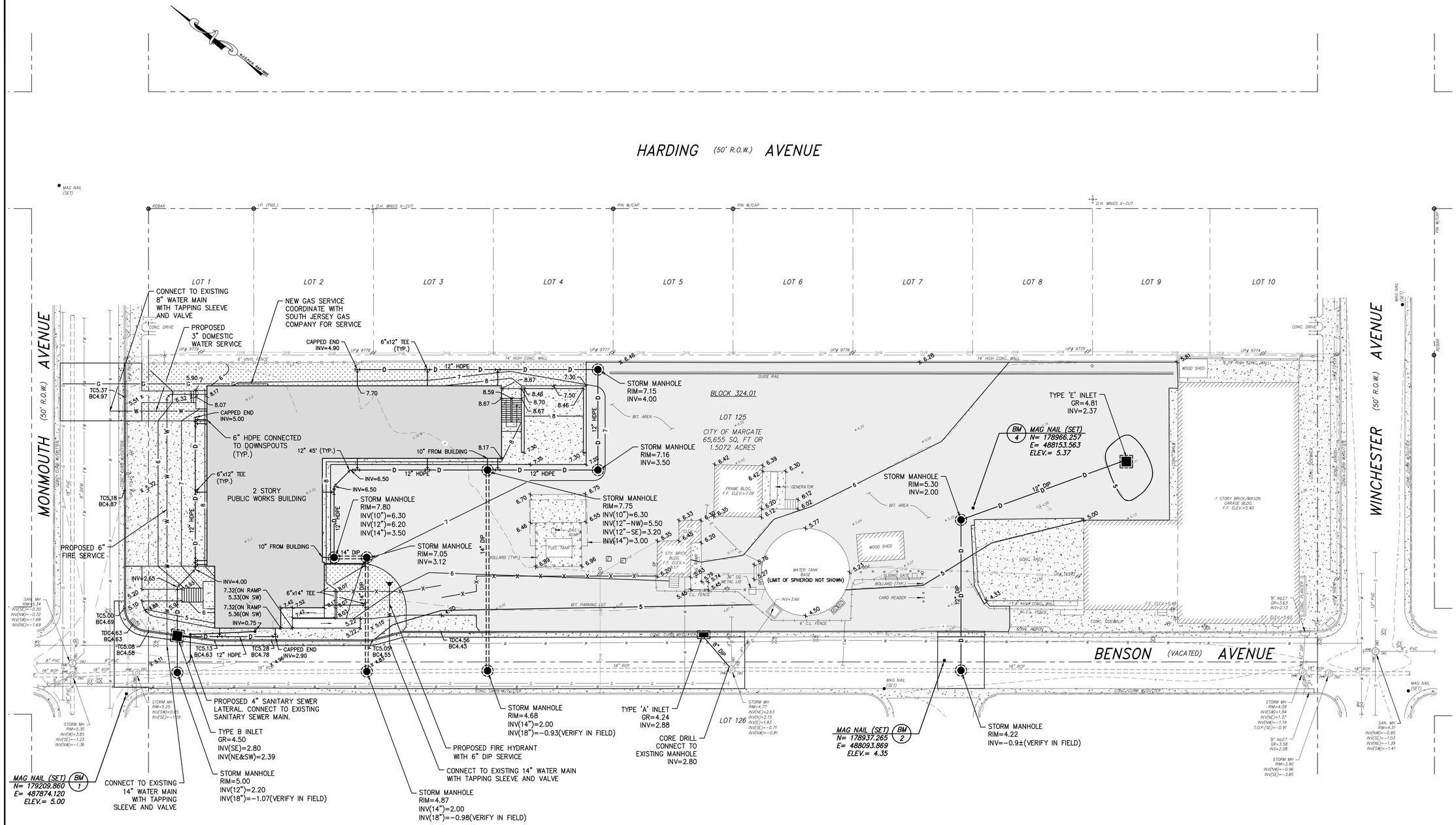
SITE PLAN

CITY OF MARGATE
NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE
ATLANTIC COUNTY NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
G.E.R.	J.E.J.	N.R.D.	AS NOTED

DATE: 4-14-25
JOB No.: 01-16-U-200
SHEET No.: 7 of 16

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GRADING & UTILITY PLAN

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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No.	REVISION	DATE	BY	CHK
1	REVISED BUILDING LOCATION	6-24-26	GR	JJ

GRADING & UTILITY PLAN

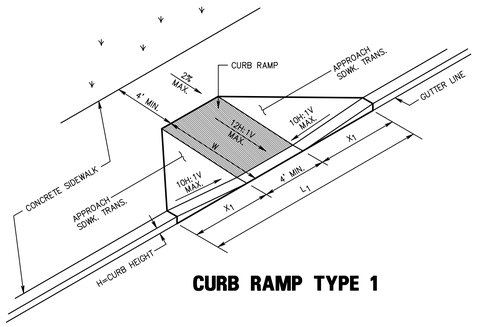
CITY OF MARGATE

NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE

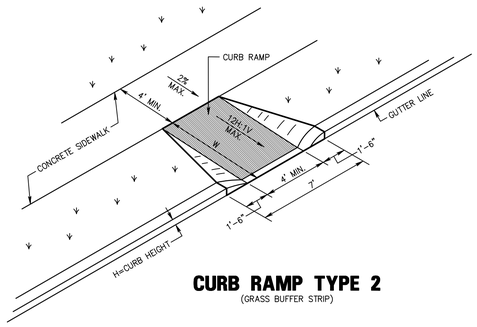
ATLANTIC COUNTY NEW JERSEY

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
G.E.R.	J.E.J.	N.R.D.	AS NOTED
DATE : 4-14-25		SHEET No. :	8 of 16
JOB No. : 01-16-U-200			

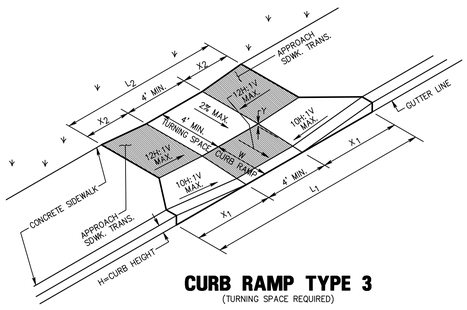
I:\Survey\2_Active Jobs\01-Engineering\01-16-U\01-16-U200\dwg\grading\01-16-U200-PUBLIC WORKS.dwg, 7/10/2025 1:11:29 AM



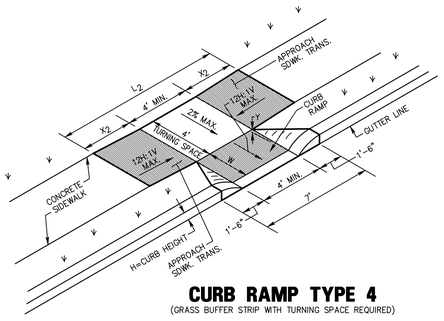
CURB RAMP TYPE 1



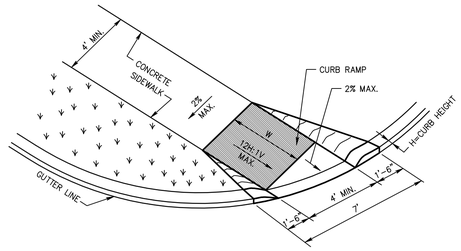
CURB RAMP TYPE 2
(GRASS BUFFER STRIP)

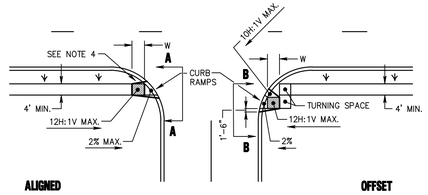


CURB RAMP TYPE 3
(TURNING SPACE REQUIRED)

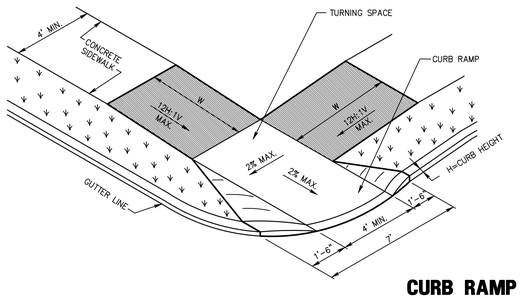


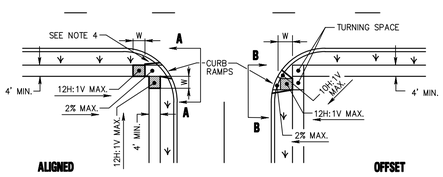
CURB RAMP TYPE 4
(GRASS BUFFER STRIP WITH TURNING SPACE REQUIRED)



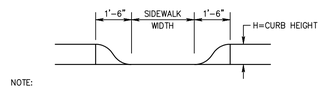


CURB RAMP TYPE 5



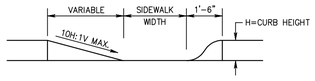


CURB RAMP TYPE 6

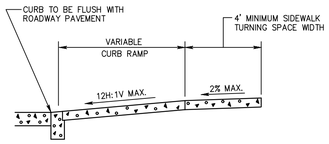


NOTE:
CURB RAMP OPENING TO BE FLUSH WITH ROADWAY PAVEMENT (CURB RAMP TYPES 5 & 6).

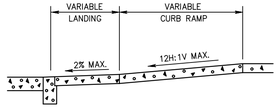
SECTION A–A



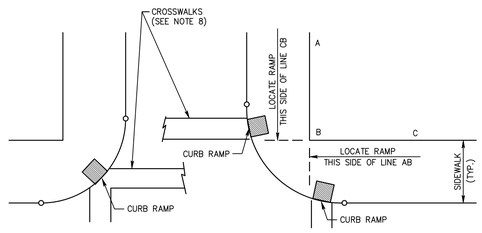
SECTION B–B



SECTION THROUGH CURB RAMPS 1 THROUGH 4



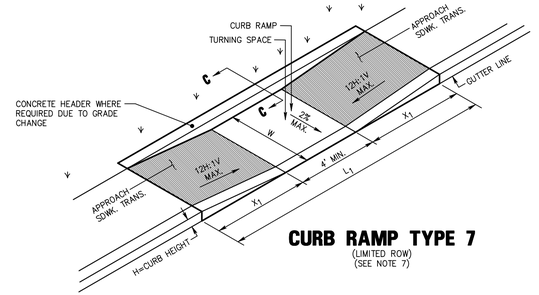
SECTION THROUGH CURB RAMPS 5 AND 6



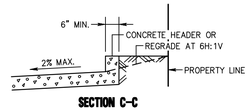
ALTERNATE TREATMENT
(SEE NOTE 11)

PREFERRED TREATMENT
(SEE NOTE 11)

LOCATION OF CURB RAMP TYPES 1, 2, 3, 4 & 7 FOR CROSSING PARALLEL AND PERPENDICULAR TO HIGHWAY



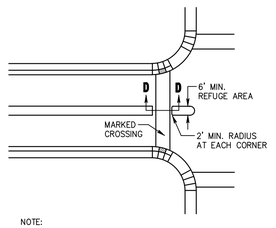
CURB RAMP TYPE 7
(LIMITED ROW)
(SEE NOTE 7)



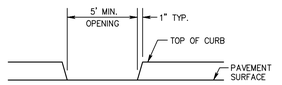
SECTION C–C

NOTES:

1. KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SIDEWALK.
2. FOR DIMENSIONS SEE ADA CURB RAMP TABLES.
3. CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT A MINIMUM OF 4 FEET AT ALL CURB RAMPS.
4. FOR CURB RAMP TYPES 5 AND 6, IF A GRASS BUFFER DOES NOT EXIST, SLOPE CURB TO EQUAL SLOPE OF ADJACENT CURB RAMP.
5. SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
6. CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS VERTICAL CURB OR HEADER CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
7. WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, CURB RAMP TYPE 7 SHOULD BE USED, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
8. CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
9. DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS. WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMPS WILL HAVE TO BE CALCULATED BASED ON CROSS SLOPES SHOWN.
10. THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS X2 IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS. ENSURE THE RUNNING SLOPE OF CURB RAMPS DOES NOT REQUIRE ITS LENGTH TO EXCEED 15 FEET. THE RUNNING SLOPE MAY EXCEED THE 12H:1V MAX SLOPE SO AS NOT TO EXCEED THE 15 FEET MAXIMUM LENGTH.
11. CONSTRUCT CURB RAMP TYPES 1,2,3,4 & 7 PERPENDICULAR TO CURBLINE, AS SHOWN.



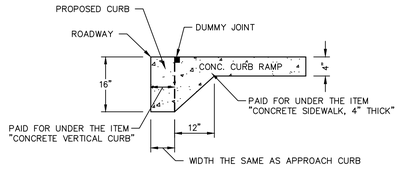
NOTE:
WHERE PRACTICAL, END LEFT TURN ISLAND OR DIVISIONAL ISLAND BEFORE CROSSWALK TO ELIMINATE CUT–THROUGH



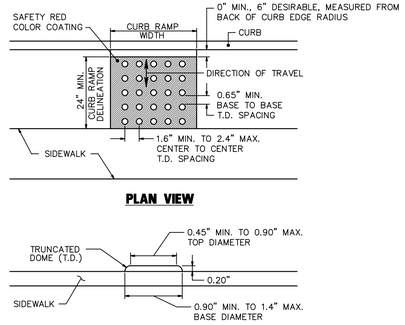
SECTION D–D

NOTE:
5' MIN. WIDE OPENING TO BE FLUSH WITH ROADWAY PAVEMENT

PEDESTRIAN REFUGE ISLAND WALKWAY OPENING AT INTERSECTIONS



MONOLITHIC CURB AND RAMP



DETECTABLE WARNING SURFACE

RVE 1901
REMINGTON & VERNICK **ENGINEERS**
2819 FIRE ROAD, 1ST FLOOR
EGG HARBOR TOWNSHIP, NJ 08234
(609) 645-7110, FAX (609) 645-7076
WEB ADDRESS : RVE.COM
Certification of Authorization: 24 GA 28003300
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DATE:
NICHOLAS R. DICOSMO
NJ PROFESSIONAL ENGINEER LIC. No. 57899

DATE:
JOSEPH E. JOHNSTON
NJ PROFESSIONAL ENGINEER LIC. No. 35729

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL OR DIGITAL SEAL ARE NOT VALID

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No.	REVISION	DATE	BY	CHK
1	REVISED BUILDING LOCATION	6-24-26	GR	JJ

ADA CURB RAMP DETAILS

CITY OF MARGATE
NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE
ATLANTIC COUNTY NEW JERSEY

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
G.E.R.	J.E.J.	N.R.D.	AS NOTED

DATE : 4-14-25
JOB No. : 01-16-LI-200
SHEET No. : 9 of 16

L:\Drawings\2_Active\Margate\Building\Working\Margate2016\2016-01-16-LI-200 - New Public Works Building\Drawings\2016-01-16-LI-200-ADA CURB RAMP DETAILS.dwg, 7/8/2026 1:11:19 AM

CURB RAMP TYPE 1

0.0% GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	2.50	2.50	9.00
4	4	3.33	3.33	10.67
5	5	4.17	4.17	12.33
6	6	5.00	5.00	14.00
7	7	5.83	5.83	15.67
8	8	6.67	6.67	17.33
9	9	7.50	7.50	19.00

1.0% GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	2.78	2.27	9.05
4	4	3.70	3.03	10.73
5	5	4.63	3.79	12.42
6	6	5.56	4.55	14.10
7	7	6.48	5.30	15.78
8	8	7.41	6.06	17.47
9	9	8.33	6.82	19.15

2.0% GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	3.13	2.08	9.21
4	4	4.17	2.78	10.94
5	5	5.21	3.47	12.68
6	6	6.25	4.17	14.42
7	7	7.29	4.86	16.15
8	8	8.33	5.56	17.89
9	9	9.38	6.25	19.63

3.0% GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	3.57	1.92	9.49
4	4	4.76	2.56	11.33
5	5	5.95	3.21	13.16
6	6	7.14	3.85	14.99
7	7	8.33	4.49	16.82
8	8	9.52	5.13	18.65
9	9	10.71	5.77	20.48

4.0% GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	4.17	1.79	9.95
4	4	5.56	2.38	11.94
5	5	6.94	2.98	13.92
6	6	8.33	3.57	15.90
7	7	9.72	4.17	17.89
8	8	11.11	4.76	19.87
9	9	12.50	5.36	21.86

5.0% GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	5.00	1.67	10.67
4	4	6.67	2.22	12.89
5	5	8.33	2.78	15.11
6	6	10.00	3.33	17.33
7	7	11.67	3.89	19.56
8	8	13.33	4.44	21.78
9	9	15.00	5.00	24.00

6.0% GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	6.25	1.56	11.81
4	4	8.33	2.08	14.42
5	5	10.42	2.60	17.02
6	6	12.50	3.13	19.63
7	7	14.58	3.65	22.23
8	8	15.00	4.17	23.17
9	9	15.00	4.69	23.69

7.0% GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	8.33	1.47	13.80
4	4	11.11	1.96	17.07
5	5	13.89	2.45	20.34
6	6	15.00	2.94	21.94
7	7	15.00	3.43	22.43
8	8	15.00	3.92	22.92
9	9	15.00	4.41	23.41

CURB RAMP TYPE 2

0-8% GUTTER LINE PROFILE				
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET
3	3	1.50	1.50	7.00
4	4	1.50	1.50	7.00
5	5	1.50	1.50	7.00
6	6	1.50	1.50	7.00
7	7	1.50	1.50	7.00
8	8	1.50	1.50	7.00
9	9	1.50	1.50	7.00

CURB RAMP TYPE 3

0.0% GUTTER LINE PROFILE								
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	2.50	2.50	9.00	2.5	1.10	1.10	6.20
4		3.33	3.33	10.67		2.10	2.10	8.20
5		4.17	4.17	12.33		3.10	3.10	10.20
6		5.00	5.00	14.00		4.10	4.10	12.21
7		5.83	5.83	15.67		5.10	5.10	14.21
8		6.67	6.67	17.33		6.10	6.10	16.21
9		7.50	7.50	19.00		7.10	7.10	18.21
3	3.0	*	*	*	3.0	*	*	*
4		3.33	3.33	10.67		1.72	1.72	7.44
5		4.17	4.17	12.33		2.72	2.72	9.44
6		5.00	5.00	14.00		3.72	3.72	11.45
7		5.83	5.83	15.67		4.72	4.72	13.45
8		6.67	6.67	17.33		5.72	5.72	15.45
9		7.50	7.50	19.00		6.72	6.72	17.45
3	3.5	*	*	*	3.5	*	*	*
4		3.33	3.33	10.67		1.34	1.34	6.68
5		4.17	4.17	12.33		2.34	2.34	8.68
6		5.00	5.00	14.00		3.34	3.34	10.69
7		5.83	5.83	15.67		4.34	4.34	12.69
8		6.67	6.67	17.33		5.34	5.34	14.69
9		7.50	7.50	19.00		6.34	6.34	16.69
3	4.0	*	*	*	4.0	*	*	*
4		*	*	*		*	*	*
5		4.17	4.17	12.33		1.96	1.96	7.92
6		5.00	5.00	14.00		2.96	2.96	9.93
7		5.83	5.83	15.67		3.96	3.96	11.93
8		6.67	6.67	17.33		4.96	4.96	13.93
9		7.50	7.50	19.00		5.96	5.96	15.93

1.0% GUTTER LINE PROFILE								
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	2.78	2.27	9.05	2.5	1.25	0.98	6.24
4		3.70	3.03	10.73		2.39	1.88	8.27
5		4.63	3.79	12.42		3.53	2.77	10.30
6		5.56	4.55	14.10		4.66	3.66	12.33
7		6.48	5.30	15.78		5.80	4.56	14.36
8		7.41	6.06	17.47		6.94	5.45	16.39
9		8.33	6.82	19.15		8.07	6.34	18.42
3	3.0	2.78	2.27	9.05	3.0	0.82	0.64	5.46
4		3.70	3.03	10.73		1.96	1.54	7.49
5		4.63	3.79	12.42		3.09	2.43	9.52
6		5.56	4.55	14.10		4.23	3.32	11.55
7		6.48	5.30	15.78		5.37	4.22	13.58
8		7.41	6.06	17.47		6.50	5.11	15.61
9		8.33	6.82	19.15		7.64	6.00	17.64
3	3.5	2.78	2.27	9.05	3.5	0.39	0.30	4.69
4		3.70	3.03	10.73		1.53	1.20	6.72
5		4.63	3.79	12.42		2.66	2.09	8.75
6		5.56	4.55	14.10		3.80	2.98	10.78
7		6.48	5.30	15.78		4.94	3.88	12.81
8		7.41	6.06	17.47		6.07	4.77	14.84
9		8.33	6.82	19.15		7.21	5.66	16.87
3	4.0	*	*	*	4.0	*	*	*
4		3.70	3.03	10.73		1.09	0.86	5.95
5		4.63	3.79	12.42		2.23	1.75	7.98
6		5.56	4.55	14.10		3.37	2.65	10.01
7		6.48	5.30	15.78		4.50	3.54	12.04
8		7.41	6.06	17.47		5.64	4.43	14.07
9		8.33	6.82	19.15		6.78	5.32	16.10

2.0% GUTTER LINE PROFILE								
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	3.13	2.08	9.21	2.5	1.45	0.89	6.34
4		4.17	2.78	10.94		2.77	1.69	8.46
5		5.21	3.47	12.68		4.08	2.50	10.58
6		6.25	4.17	14.42		5.40	3.31	12.71
7		7.29	4.86	16.15		6.72	4.12	14.83
8		8.33	5.56	17.86		8.03	4.92	16.95
9		9.38	6.25	19.63		9.35	5.73	19.08
3	3.0	3.13	2.08	9.21	3.0	0.95	0.58	5.53
4		4.17	2.78	10.94		2.27	1.39	7.65
5		5.21	3.47	12.68		3.58	2.20	9.78
6		6.25	4.17	14.42		4.90	3.00	11.90
7		7.29	4.86	16.15		6.22	3.81	14.02
8		8.33	5.56	17.89		7.53	4.62	16.15
9		9.38	6.25	19.63		8.85	5.42	18.27
3	3.5	3.13	2.08	9.21	3.5	0.45	0.28	4.72
4		4.17	2.78	10.94		1.77	1.08	6.85
5		5.21	3.47	12.68		3.08	1.89	8.97
6		6.25	4.17	14.42		4.40	2.70	11.09
7		7.29	4.86	16.15		5.72	3.50	13.22
8		8.33	5.56	17.89		7.03	4.31	15.34
9		9.38	6.25	19.63		8.35	5.12	17.46
3	4.0	*	*	*	4.0	*	*	*
4		4.17	2.78	10.94		1.27	0.78	6.04
5		5.21	3.47	12.68		2.58	1.58	8.16
6		6.25	4.17	14.42		3.90	2.39	10.29
7		7.29	4.86	16.15		5.22	3.20	12.41
8		8.33	5.56	17.89		6.53	4.00	14.53
9		9.38	6.25	19.63		7.85	4.81	16.66

3.0% GUTTER LINE PROFILE								
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	3.0	3.57	1.92	9.49	3.0	1.72	0.81	6.5.
4		4.76	2.56	11.33		3.28	1.55	8.83
5		5.95	3.21	13.16		4.85	2.28	11.13
6		7.14	3.85	14.99		6.41	3.02	13.43
7		8.33	4.49	16.82		7.98	3.75	15.73
8		9.52	5.13	18.65		9.54	4.49	18.03
9		10.71	5.77	20.48		11.10	5.22	20.33
3	3.5	3.57	1.92	9.49	3.5	1.13	0.53	5.66
4		4.76	2.56	11.33		2.69	1.27	7.96
5		5.95	3.21	13.16		4.25	2.00	10.26
6		7.14	3.85	14.99		5.82	2.74	12.55
7		8.33	4.49	16.82		7.38	3.47	14.85
8		9.52	5.13	18.65		8.94	4.21	17.15
9		10.71	5.77	20.48		10.51	4.94	19.45
3	4.0	3.57	1.92	9.49	4.0	0.53	0.25	4.78
4		4.76	2.56	11.33		2.10	0.99	7.08
5		5.95	3.21	13.16		3.66	1.72	9.35
6		7.14	3.85	14.99		5.22	2.46	11.67
7		8.33	4.49	16.82		6.79	3.19	13.98
8		9.52	5.13	18.65		8.35	3.93	16.28
9		10.71	5.77	20.48		9.91	4.66	18.58
3	4.0	*	*	*	4.0	*	*	*
4		4.76	2.56	11.33		1.50	0.71	6.21
5		5.95	3.21	13.16		3.07	1.44	8.51
6		7.14	3.85	14.99		4.63	2.18	10.81
7		8.33	4.49	16.82		6.19	2.91	13.11
8		9.52	5.13	18.65		7.76	3.65	15.41
9		10.71	5.77	20.48		9.32	4.38	17.71

4.0% GUTTER LINE PROFILE								
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	3.0	4.17	1.79	9.95	3.0	2.12	0.74	6.86
4		5.56	2.38	11.94		4.04	1.42	9.46
5		6.94	2.98	13.92		5.97	2.10	12.06
6		8.33	3.57	15.90		7.89	2.77	14.66
7		9.72	4.17	17.89		9.82	3.45	17.26
8		11.11	4.76	19.87		11.74	4.12	19.87
9		12.50	5.36	21.86		13.67	4.80	22.47
3	3.5	4.17	1.79	9.95	3.5	1.39	0.49	5.88
4		5.56	2.38	11.94		3.31	1.16	8.48
5		6.94	2.98	13.92		5.24	1.84	11.08
6		8.33	3.57	15.90		7.16	2.52	13.68
7		9.72	4.17	17.89		9.09	3.19	16.28
8		11.11	4.76	19.87		11.01	3.87	18.88
9		12.50	5.36	21.86		12.94	4.54	21.48
3	4.0	4.17	1.79	9.95	4.0	0.66	0.23	4.89
4		5.56	2.38	11.94		2.58	0.91	7.49
5		6.94	2.98	13.92		4.51	1.58	10.09
6		8.33	3.57	15.90		6.43	2.26	12.69
7		9.72	4.17	17.89		8.36	2.93	15.29
8		11.11	4.76	19.87		10.28	3.61	17.89
9		12.50	5.36	21.86		12.20	4.29	20.49
3	4.5	*	*	*	4.5	*	*	*
4		5.56	2.38	11.94		1.85	0.65	6.50
5		6.94	2.98	13.92		3.78	1.33	9.10
6		8.33	3.57	15.90		5.70	2.00	11.70
7		9.72	4.17	17.90		7.62	2.68	14.30
8		11.11	4.76	19.87		9.55	3.35	16.90
9		12.50	5.36	21.86		11.47	4.03	19.50

5.0% GUTTER LINE PROFILE								
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	3.5	5.00	1.67	10.67	3.5	2.76	0.69	7.44
4		6.67	2.22	12.89		5.26	1.31	10.57
5		8.33	2.78	15.11		7.76	1.94	13.70
6		10.00	3.33	17.33		10.26	2.56	16.83
7		11.67	3.89	19.56		12.77	3.19	19.95
8		13.33	4.44	21.78		15.00	3.81	22.81
9		15.00	5.00	24.00		15.00	4.44	23.44
3	4.0	5.00	1.67	10.67	4.0	1.80	0.45	6.26
4		6.67	2.22	12.89		4.31	1.08	9.38
5		8.33	2.78	15.11		6.81	1.70	12.51
6		10.00	3.33	17.33		9.31	2.33	15.64
7		11.67	3.89	19.56		11.81	2.95	18.77
8		13.33	4.44	21.78		14.32	3.58	21.89
9		15.00	5.00	24.00		15.00	4.20	23.20
3	4.5	5.00	1.67	10.67	4.5	0.85	0.21	5.07
4		6.67	2.22	12.89		3.36	0.84	8.20
5		8.33	2.78	15.11		5.83	1.46	11.32
6		10.00	3.33	17.33		8.36	2.09	14.45
7		11.67	3.89	19.56		10.83	2.71	17.58
8		13.33	4.44	21.78		13.37	3.34	20.71
9		15.00	5.00	24.00		15.00	3.96	22.96
3	5.0	*	*	*	5.0	*	*	*
4		6.67	2.22	12.89		2.41	0.60	7.01
5		8.33	2.78	15.11		4.91	1.23	10.14
6		10.00	3.33	17.33		7.41	1.85	13.26
7		11.67	3.89	19.56		9.91	2.48	16.39
8		13.33	4.44	21.78		12.42	3.10	19.52
9		15.00	5.00	24.00		14.92	3.73	22.65

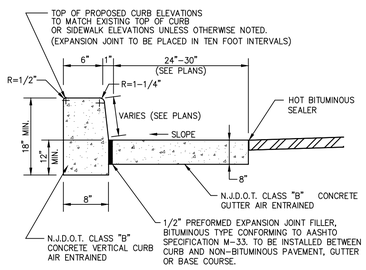
6.0% GUTTER LINE PROFILE								
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	4.0	6.25	1.56	11.81	4.0	3.94	0.64	8.58
4		8.33	2.08	14.42		7.51	1.22	12.74
5		10.42	2.60	17.02		11.09	1.80	16.89
6		12.50	3.13	19.63		14.67	2.38	21.05
7		14.58	3.65	22.23		15.00	2.97	21.97
8		15.00	4.17	23.17		15.00	3.55	22.55
9		15.00	4.69	23.69		15.00	4.13	23.13
3	4.5	6.25	1.56	11.81	4.5	2.58	0.42	7.00
4		8.33	2.08	14.42		6.16	1.00	11.16
5		10.42	2.60	17.02		9.73	1.58	15.31
6		12.50	3.13	19.63		13.31	2.16	19.47
7		14.58	3.65	22.23		15.00	2.75	21.75
8		15.00	4.17	23.17		15.00	3.33	22.33
9		15.00	4.69	23.69		15.00	3.91	22.91
3	5.0	6.25	1.56	11.81	5.0	1.22	0.20	5.42
4		8.33	2.08	14.42		4.80	0.78	9.58
5		10.42	2.60	17.02		8.37	1.36	13.74
6		12.50	3.13	19.63		11.95	1.94	17.89
7		14.58	3.65	22.23		15.00	2.52	21.52
8		15.00	4.17	23.17		15.00	3.11	22.11
9		15.00	4.69	23.69		15.00	3.69	22.69
3	5.5	*	*	*	5.5	*	*	*
4		8.33	2.08	14.42		3.44	0.56	8.00
5		10.42	2.60	17.02		7.02	1.14	12.16
6		12.50	3.13	19.63		10.59	1.72	16.31
7		14.58	3.65	22.23		14.17	2.30	20.47
8		15.00	4.17	23.17		15.00	2.89	21.89
9		15.00	4.69	23.69		15.00	3.47	22.47

7.0% GUTTER LINE PROFILE								
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	4.0	8.33	1.47	13.80	4.0	6.90	0.60	11.50
4		11.11	1.96	17.07		13.16	1.14	18.31
5		13.89	2.45	20.34		15.00	1.69	20.69
6		15.00	2.94	21.94		15.00	2.23	21.23
7		15.00	3.43	22.43		15.00	2.77	21.77
8		15.00	3.92	22.92		15.00	3.32	22.32
9		15.00	4.41	23.41		15.00	3.86	22.86
3	4.5	8.33	1.47	13.80	4.5	4.52	0.39	8.91
4		11.11	1.96	17.07		10.78	0.94	15.72
5		13.89	2.45	20.34		15.00	1.48	20.48
6		15.00	2.94	21.94		15.00	2.02	21.02
7		15.00	3.43	22.43		15.00	2.57	21.57
8		15.00	3.92	22.92		15.00	3.11	22.11
9		15.00	4.41	23.41		15.00	3.65	22.65
3	5.0	8.33	1.47	13.80	5.0	2.14	0.19	6.32
4		11.11	1.96	17.07		8.40	0.73	13.13
5		13.89	2.45	20.34		14.67	1.27	19.94
6		15.00	2.94	21.94		15.00	1.82	20.82
7		15.00	3.43	22.43		15.00	2.36	21.36
8		15.00	3.92	22.92		15.00	2.90	21.90
9		15.00	4.41	23.41		15.00	3.45	22.45
3	5.5	*	*	*	5.5	*	*	*
4		11.11	1.96	17.07		6.03	0.52	10.55
5		13.89	2.45	20.34		12.29	1.07	17.36
6		15.00	2.94	21.94		15.00	1.61	20.61
7		15.00	3.43	22.43		15.00	2.15	21.15
8		15.00	3.92	22.92		15.00	2.70	21.70
9		15.00	4.41	23.41		15.00	3.24	22.24

CURB RAMP TYPE 4

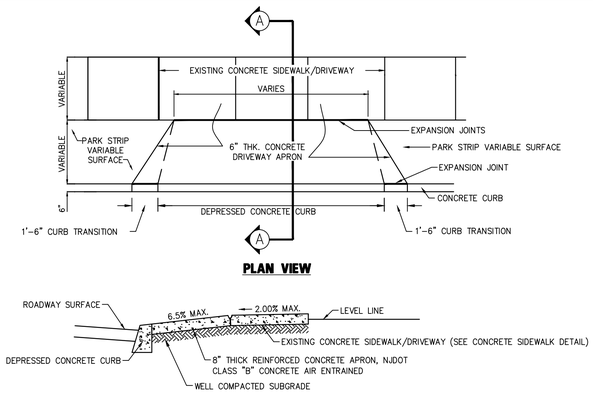
0.0% GUTTER LINE PROFILE								
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	2.50	2.50	9.00	2.5	1.10	1.10	6.20
4		3.33	3.33	10.67		2.10	2.10	8.20
5		4.17	4.17	12.33		3.10	3.10	10.20
6		5.00	5.00	14.00		4.10	4.10	12.21
7		5.83	5.83	15.67		5.10	5.10	14.21
8		6.67	6.67	17.33		6.10	6.10	16.21
9		7.50	7.50	19.00		7.10	7.10	18.21
3	3.0	*	*	*	3.0	**	**	**
4		3.33	3.33	10.67		1.72	1.72	7.44
5		4.17	4.17	12.33		2.72	2.72	9.44
6		5.00	5.00	14.00		3.72	3.72	11.45
7		5.83	5.83	15.67		4.72	4.72	13.45
8		6.67	6.67	17.33		5.72	5.72	15.45
9		7.50	7.50	19.00		6.72	6.72	17.45
3	3.5	*	*	*	3.5	**	**	**
4		3.33	3.33	10.67		1.34	1.34	6.68
5		4.17	4.17	12.33		2.34	2.34	8.68
6		5.00	5.00	14.00		3.34	3.34	10.69
7		5.83	5.83	15.67		4.34	4.34	12.69
8		6.67	6.67	17.33		5.34	5.34	14.69
9		7.50	7.50	19.00		6.34	6.34	16.69
3	4.0	*	*	*	4.0	**	**	**
4		*	*	*		**	**	**
5		4.17	4.17	12.33		1.96	1.96	7.92
6		5.00	5.00	14.00		2.96	2.96	9.93
7		5.83	5.83	15.67		3.96	3.96	11.93
8		6.67	6.67	17.33		4.96	4.96	13.93
9		7.50	7.50	19.00		5.96	5.96	15.93

1.0% GUTTER LINE PROFILE								
H INCHES	W FEET	X_{1U} FEET	X_{1L} FEET	L_1 FEET	Y INCHES	X_{2U} FEET	X_{2L} FEET	L_2 FEET
3	2.5	2.78	2.27	9.05	2.5	1.25	0.98	6.24
4		3.70	3.03	10.73		2.39	1.88	8.27
5		4.63	3.79	12.42		3.53	2.77	10.30
6		5.56	4.55	14.10		4.66	3.66	12.33
7		6.48	5.30	15.78		5.80	4.56	14.36
8		7.41	6.06	17.47		6.94	5.45	16.39
9		8.33	6.82	19.15		8.07	6.34	18.42
3	3.0	2.78	2.27	9.05	3.0	0.82	0.64	5.46
4		3.70	3.03	10.73		1.96	1.54	7.49
5		4.63	3.79	12.42		3.09	2.43	9.52
6		5.56	4.55	14.10		4.23	3.32	11.55
7		6.48	5.30	15.78		5.37	4.22	13.58
8		7.41	6.06	17.47		6.50	5.11	15.61
9		8.33	6.82	19.15		7.64	6.00	17.64
3	3.5	2.78	2.27	9.05	3.5	0.39	0.30	4.69
4		3.70	3.03	10.73		1.53	1.20	6.72
5		4.63	3.79	12.42		2.66	2.09	8.75
6		5.56	4.55	14.10		3.80	2.98	10.78
7		6.48	5.30	15.78		4.94	3.88	12.81
8		7.41	6.06	17.47	



CONCRETE CURB & CONCRETE GUTTER DETAIL

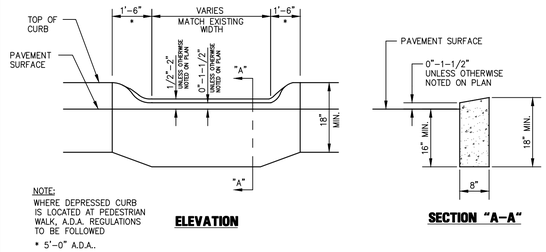
N.T.S.



DRIVEWAY APRON & CURB DEPRESSION

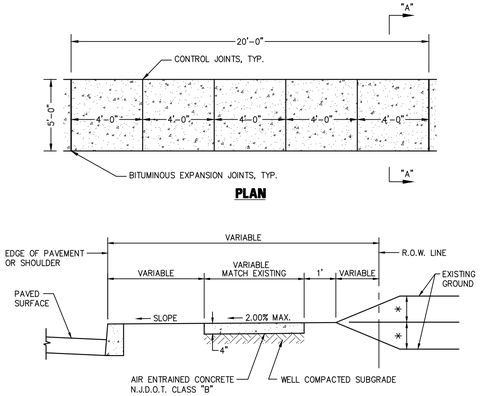
(APPLICABLE WITH STANDARD CURB)

N.T.S.



DEPRESSED CURB DETAIL

N.T.S.

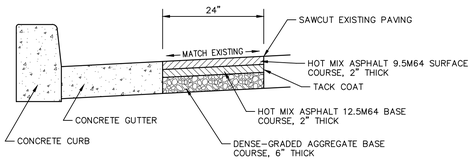


* MAXIMUM SLOPE = 3 HORIZONTAL TO 1 VERTICAL. MAXIMUM DESIRABLE HEIGHT OF CUT OR FILL = 1 FOOT. METHOD OF SLOPE STABILIZATION SHALL BE INDICATED ON PLANS.

NOTE:
2% MAXIMUM CROSS SLOPE REQUIRED FOR 5' WIDE PORTION OF THE SIDEWALK UTILIZED AS THE TRAVEL PATH. FRONT OF SIDEWALK MUST BE AT AN ELEVATION GREATER THAN THE TOP OF CURB ELEVATION.

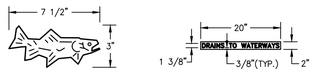
CONCRETE SIDEWALK DETAIL

N.T.S.



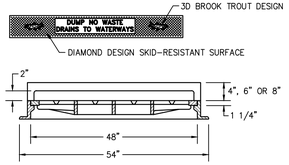
HMA PAVEMENT RESTORATION DETAIL

N.T.S.



3D BROOK TROUT DETAIL

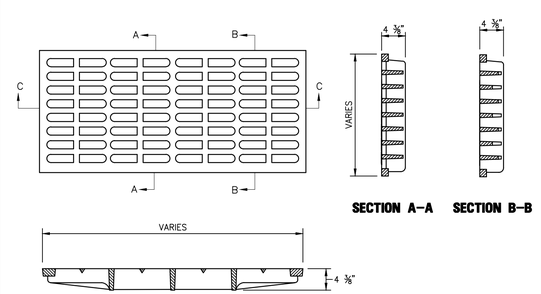
NAME PLATE



TYPE 'P–ECHO' CURB PIECE PHASE II

CURB PIECE DETAIL

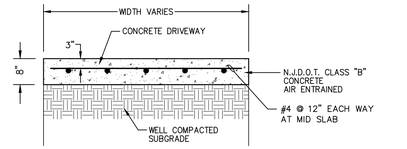
N.T.S.



NOTES:
1. MATERIAL – GRAY CAST IRON ASTM A48–83, CLASS 30B.
2. LOADING – AASHTO HS20–44 HIGHWAY LOADING.
3. CASTING SUPPLIED WITHOUT SURFACE COATING.
4. MIN. WEIGHT 325 LBS.

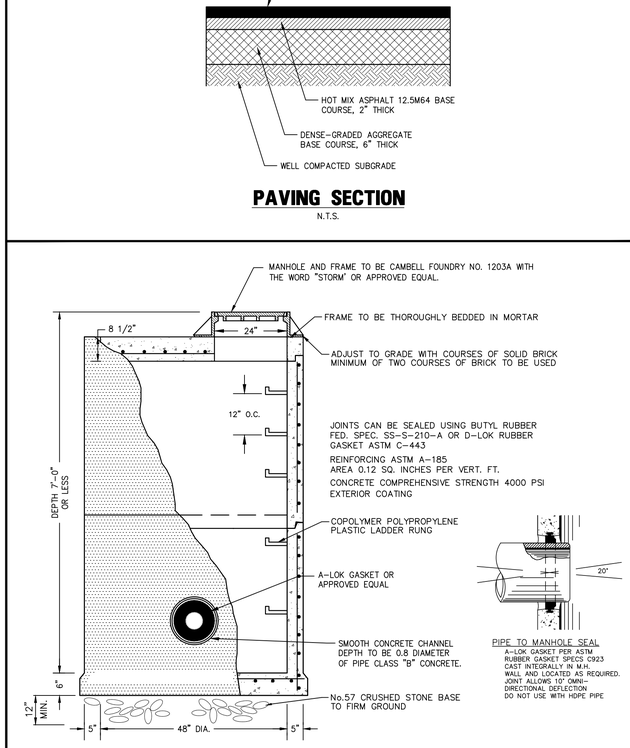
BICYCLE SAFE GRATE DETAIL

N.T.S.



TYPICAL SECTION REINFORCED CONCRETE DRIVEWAY

N.T.S.

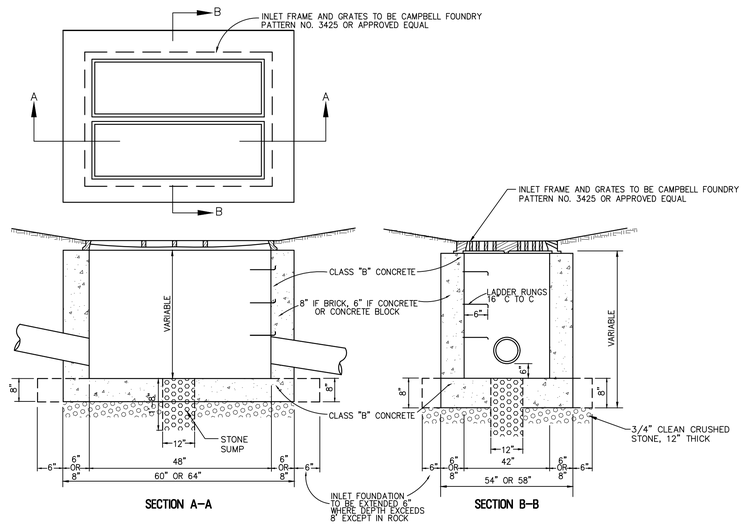


PAVING SECTION

N.T.S.

SHALLOW STORM SEWER MANHOLE DETAIL

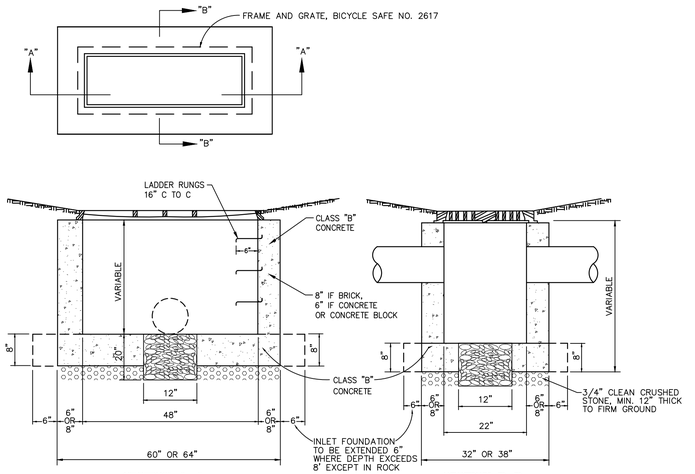
N.T.S.



NOTES:
INVERTS TO BE ELIMINATED IN BOTTOM OF TERMINAL INLETS. BOTTOM SHALL BE DISHED AND SLOPED TOWARDS THE OUTLET PIPE AT THE RATE OF 2" PER FOOT THIS INLET MAY BE CONSTRUCTED OF BRICK, CONCRETE OR CONCRETE BLOCK, IF BRICK OR CONCRETE BLOCK IS USED THE BOTTOM SHALL BE AS SHOWN FOR CONCRETE & THE OUTSIDE OF THE WALLS SHALL BE PLASTERED WITH 1/2" COAT BE DISHED AND SLOOF 1:2 CEMENT SAND MORTAR.
INLET GRATE TO BE SET TO MATCH CROSS SLOPE OF ROAD.

TYPE E INLET DETAIL

N.T.S.



NOTES:
THIS INLET MAY BE CONSTRUCTED OF BRICK, CONCRETE OR CONCRETE BLOCK. IF BRICK OR CONCRETE BLOCK IS USED THE BOTTOM SHALL BE SHOWN FOR CONCRETE.
INLET GRATE TO BE SET TO MATCH CROSS SLOPE OF ROAD.

TYPE A INLET DETAIL

N.T.S.

REMINGTON & VERNICK ENGINEERS
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EGG HARBOR TOWNSHIP, NJ 08234
(609) 645-7110, FAX (609) 645-7076
WEB ADDRESS : RVE.COM
Certification of Authorization: 24 GA 28003300
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DATE:
NICHOLAS R. DICOSMO
NJ PROFESSIONAL ENGINEER LIC. No. 57899

DATE:
JOSEPH E. JOHNSTON
NJ PROFESSIONAL ENGINEER LIC. No. 35729

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL OR DIGITAL SEAL ARE NOT VALID

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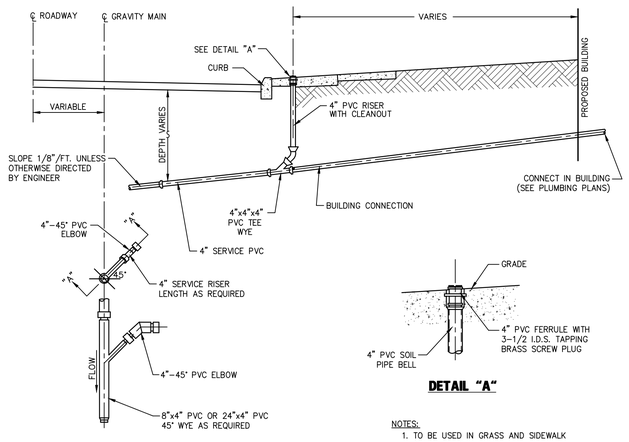
No.	REVISION	DATE	BY	CHK
1	REVISED BUILDING LOCATION	6-24-26	GR	JJ

CONSTRUCTION DETAILS

CITY OF MARGATE
NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE
ATLANTIC COUNTY
NEW JERSEY

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
G.E.R.	J.E.J.	N.R.D.	AS NOTED
DATE : 4-14-25		SHEET No. :	11 of 16
JOB No. : 01-16-U-200			

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SECTION A–A TYPICAL

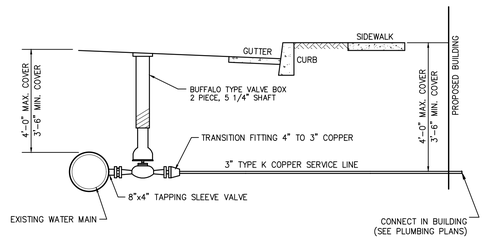
DETAIL "A"

NOTES:
1. TO BE USED IN GRASS AND SIDEWALK AREAS ONLY.
2. RECESSED NUT TYPE CLEANOUT SHALL BE USED IN CONCRETE SIDEWALK.

NOTE:
ALL SERVICES TO PVC PIPE SHALL BE SDR–26 CONFORMING TO ASTM–D–3034.

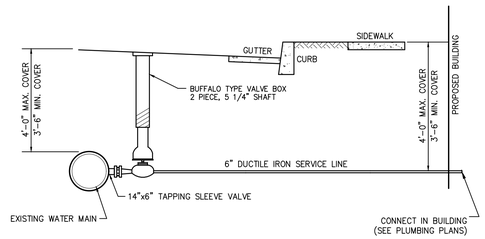
TYPICAL SEWER SERVICE CONNECTION (P.V.C. SERVICE)

N.T.S.



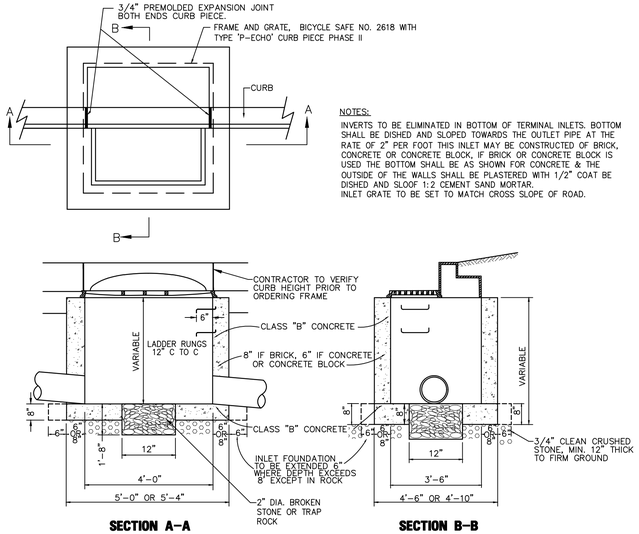
DOMESTIC WATER SERVICE CONNECTION DETAIL

N.T.S.



FIRE SERVICE CONNECTION DETAIL

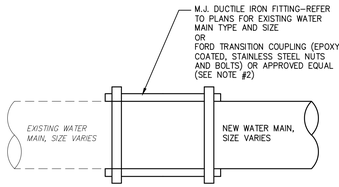
N.T.S.



SECTION A–A **SECTION B–B**

TYPE B INLET DETAIL

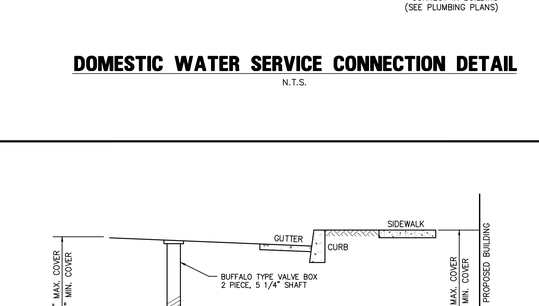
N.T.S.



NOTES:
1. THERE WILL BE NO SEPARATE PAYMENT FOR ANY ELEVATION ADJUSTMENTS, BOTH HORIZONTALLY OR VERTICALLY TO MAKE A COMPLETE CONNECTION BETWEEN THE PROPOSED WATER MAIN & EXISTING MAIN. ANY FITTINGS ASSOCIATED WITH SUCH ELEVATIONAL ADJUSTMENTS. SHALL BE DUCTILE IRON MECHANICAL JOINT AND TIE RODDED IN ALL CASES.
2. ANY REDUCERS NECESSARY TO CONNECT PIPES OF DIFFERENT SIZES SHALL BE INCLUDED IN THE PAY ITEM FOR "CONNECT TO EXISTING WATER MAIN."
3. IN THE EVENT A MECHANICAL JOINT DUCTILE IRON FITTING CANNOT BE UTILIZED TO CONNECT TO THE EXISTING WATER MAIN, THEN THE CONTRACTOR SHALL USE A FORD TRANSITION COUPLING OR APPROVED EQUAL.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING TEST PITS TO CONFIRM PIPE SIZE AND MATERIAL. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
5. PAYMENT, INCLUDING, BUT NOT LIMITED TO THE AFOREMENTIONED ITEMS, AND ALL ELSE NECESSARY TO MAKE A COMPLETE CONNECTION FROM THE EXISTING WATER MAIN TO THE PROPOSED WATER MAIN, SHALL BE INCLUDED IN THE PAY ITEM "CONNECT TO EXISTING WATER MAIN".

CONNECTION TO EXISTING WATER MAIN DETAIL

N.T.S.



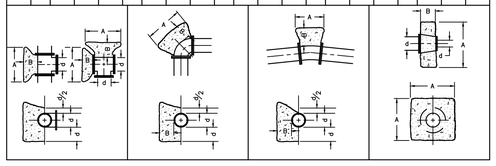
NOTES:
1. IF CURB IS NOT PRESENT THEN PROVIDE 3'x3'x4" CONCRETE PAD ON GRADE BUT BELOW BREAK AWAY FLANGE.
2. CONTRACTOR TO COORDINATE WITH DISTRIBUTOR/MANUFACTURER ON THE CORRECT HOSE NOZZLE NST(NATIONAL STANDARD THREAD) DESIGNATION FOR CITY FIRE HYDRANTS.
3. HYDRANT TO BE PROVIDED WITH STORZ PERMANENT HYDRANT ADAPTER WITH CAP, HARRINGTON, INC. MODEL HPHA50–45NH/CAP 5" STORZ 4–1/2" NH OR APPROVED EQUAL.

FIRE HYDRANT DETAIL

N.T.S.

MINIMUM SIZE OF CONCRETE THRUST BLOCKS

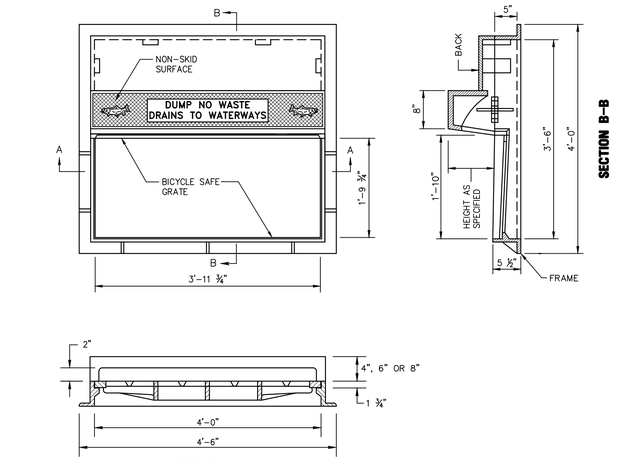
d	TEES & CROSSES A	B	C	90° BENDS A	B	C	45° BENDS A	B	C	22–1/2° & 11–1/4° BENDS A	B	C	REDUCERS dxd	A	B
6"	2'–0"	8"	1'–3"	2'–6"	8"	1'–3"	1'–6"	8"	1'–3"	1'–6"	8"	1'–3"	6"x4"	1'–6"	1'–0"
8"	2'–6"	8"	1'–6"	3'–0"	8"	1'–6"	1'–6"	8"	1'–9"	1'–6"	8"	1'–9"	8"x4"	2'–0"	1'–0"
10"	3'–0"	10"	2'–0"	3'–6"	10"	2'–0"	2'–3"	10"	2'–0"	1'–6"	10"	2'–0"	10"x6"	2'–4"	1'–3"
12"	3'–6"	10"	2'–6"	3'–9"	10"	2'–9"	2'–6"	10"	2'–6"	1'–6"	10"	2'–6"	10"x8"	2'–6"	1'–6"



1. THRUST BLOCKS TO BE USED FOR WATER MAIN AND FORCE MAINS AT ALL BENDS, TEES, REDUCERS AND PLUGS.
2. BEARING AREAS FOR THRUST BLOCKS ARE BASED ON THE UNDISTURBED SOIL WITH BEARING CAPACITY OF 1000 LBS. PER SQ. FT. FOR OTHER SOILS OF LESS BEARING CAPACITY, THE AREAS SHALL BE ADJUSTED ACCORDINGLY, (FIG. 14, ASCE "PIPELINE DESIGN FOR WATER AND WASTEWATER, 1975").
3. ALL CONCRETE FOR THRUST BLOCKS SHALL BE 3700 PSI COMPRESSIVE STRENGTH WITHIN 28 DAYS. (N.J.D.O.T. CLASS B)
4. THE THRUST BLOCKS SHALL BE POURED FROM FITTING SUCH THAT THEY BEAR ON THE UNDISTURBED WALL OF THE TRENCH.
5. THE TABULATED CONTACT BEARING AREAS LISTED ARE FOR HORIZONTAL AND DOWNWARD THRUST ONLY AND ARE NOT APPLICABLE FOR UPWARD THRUST.

THRUST BLOCK DETAILS

N.T.S.



SECTION A–A

FRAME–BACK–CURB PIECE FOR INLET TYPE "B"

N.T.S.

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REMINGTON & VERNICK **ENGINEERS**
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Certification of Authorization: 24 GA 28003300
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NJ PROFESSIONAL ENGINEER LIC. No. 57899

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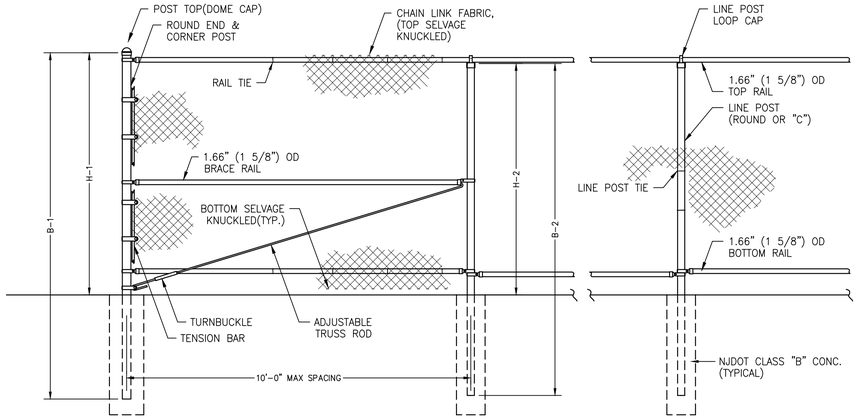
No.	REVISION	DATE	BY	CHK
1	REVISED BUILDING LOCATION	6-24-26	GR	JJ

CONSTRUCTION DETAILS

CITY OF MARGATE
NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE
ATLANTIC COUNTY NEW JERSEY

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
G.E.R.	J.E.J.	N.R.D.	AS NOTED
DATE : 4-14-25		SHEET No. : 12 of 16	
JOB No. : 01-16-LI-200			

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NOTES:
1. FOOTING WIDTH TO BE 4(x) POST WIDTH (MIN 12" DIA.). WITH A MINIMUM DEPTH OF 48", OR MIN. DEPTH OF 60" FOR 20' HIGH FENCE.
2. FENCE POSTS, RAILS, BRACES, AND ALL ACCESSORIES TO BE COATED TO MATCH CHAIN LINK FENCE FABRIC.

CHAIN-LINK FENCE DETAIL
N.T.S.

TERMINAL POSTS: END, CORNER, AND PULL			
NOM HEIGHT	OUTSIDE DIAMETER	WALL THICKNESS	WEIGHT
4'-0"	2.375"	0.154"	3.65 LBS/FT
5'-0"	2.375"	0.154"	3.65 LBS/FT
6'-0"	2.375"	0.154"	3.65 LBS/FT
8'-0"	2.875"	0.203"	5.79 LBS/FT
10'-0"	2.875"	0.226"	9.11 LBS/FT
12'-0"	4.000"	0.226"	9.11 LBS/FT

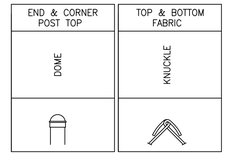
LINE POSTS			
NOM HEIGHT	OUTSIDE DIAMETER	WALL THICKNESS	WEIGHT
4'-0"	1.900"	0.145"	2.72 LBS/FT
5'-0"	1.900"	0.145"	2.72 LBS/FT
6'-0"	1.900"	0.145"	2.72 LBS/FT
8'-0"	2.375"	0.154"	3.65 LBS/FT
10'-0"	2.375"	0.203"	5.79 LBS/FT
12'-0"	2.875"	0.203"	5.79 LBS/FT
RAILS AND BRACES	1.660"	0.140"	2.27 LBS/FT

NOTES:
1. ALL DIMENSIONS BASED ON FABRIC HEIGHT.
2. ALL FRAMING MEMBERS ARE TO BE "TYPE 1" ROUND PIPE.

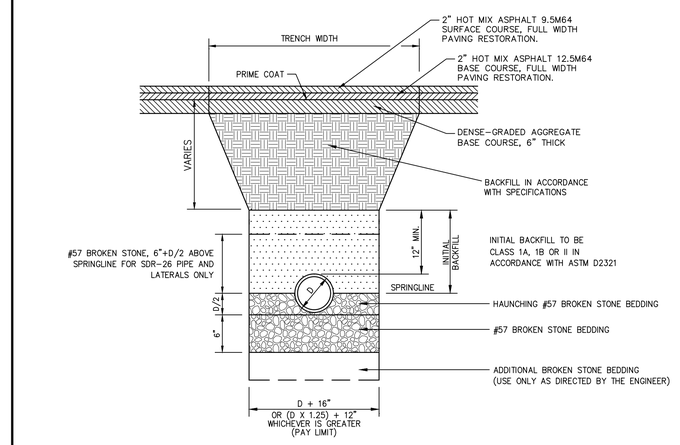
CHAIN LINK FENCE FRAMEWORK SELECTIONS
N.T.S.

FENCE HEIGHT	END & CORNER POSTS		LINE POSTS	
NOMINAL HEIGHT	B-1 BAR LENGTH	H-1 HEIGHT ABOVE GRADE	B-2 BAR LENGTH	H-2 HEIGHT ABOVE GRADE
4'-0"	8'-0"	4'-0 5/8"	7'-8"	3'-8 7/8"
5'-0"	9'-0"	5'-0 5/8"	8'-8"	4'-8 7/8"
6'-0"	10'-0"	6'-0 5/8"	9'-8"	5'-8 7/8"
8'-0"	12'-0"	8'-0 5/8"	11'-8"	7'-8 7/8"
10'-0"	14'-0"	10'-0 5/8"	13'-8"	9'-8 7/8"
12'-0"	16'-0"	12'-0 5/8"	15'-8"	11'-8 7/8"

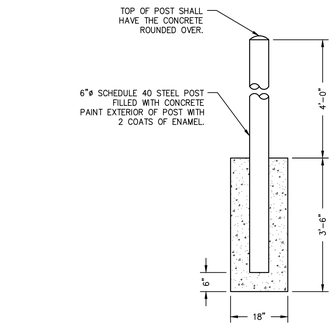
TYPICAL CHAIN LINK FENCE DETAIL
N.T.S.



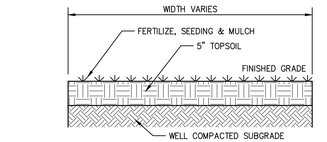
TYPICAL FENCE DETAILS
N.T.S.



TYPICAL TRENCH DETAIL IN AREAS OF RECONSTRUCTION D.I.P./H.D.P.E./P.V.C. PIPE
N.T.S.

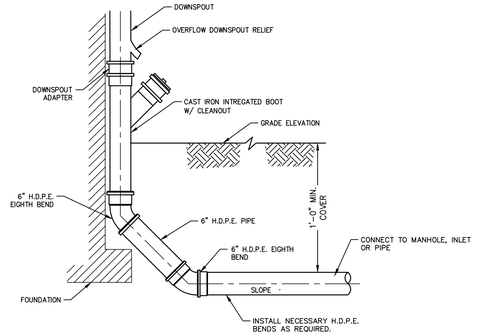


BOLLARD DETAIL
N.T.S.

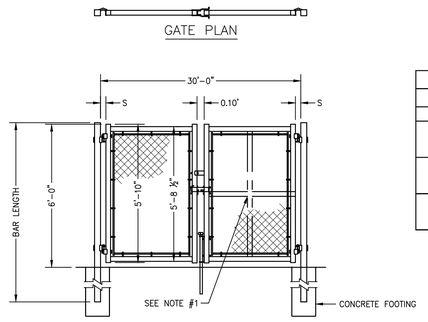


NOTE:
THE CONTRACTOR SHALL ENSURE THAT ALL GRASSED AREAS ARE CONSTRUCTED FREE FROM ROAD DEBRIS AND OTHER UNWANTED MATERIAL.

GRASS AREA SECTION
N.T.S.



DOWNSPOUT AND CLEANOUT DETAIL
N.T.S.



DOUBLE LEAF GATES		
OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	RND SIZES	POST TO UPRIGHT
8'-0" THROUGH 12'-0"	2.875" OD	ROUND GATE POSTS: 2 1/4"
14'-0" THROUGH 24'-0"	4" OD	ROUND GATE POSTS: 2 1/4"
30'-0"	6 5/8" OD	ROUND GATE POSTS: 2 1/4"

DOUBLE LEAF GATE

NOTES:
1. CENTER UPRIGHT REQUIRED ON GATE LEAVES 8'-0" & WIDER. CENTER RAIL REQUIRED ON GATE LEAVES 10'-0" & HIGHER.
2. FENCE POSTS, RAILS, BRACES, AND ALL ACCESSORIES TO BE COATED TO MATCH CHAIN LINK FENCE FABRIC.
3. FOOTING WIDTH TO BE 4(x) POST WIDTH (MIN. 12" DIA.). WITH A MINIMUM DEPTH OF 48", OR MIN. DEPTH OF 60" FOR 20' HIGH FENCE.
4. GATES TO HAVE SWIVEL SWING GATE WHEELS

TYPICAL CHAIN LINK GATE DETAILS
N.T.S.

REMINGTON & VERNICK ENGINEERS
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EGG HARBOR TOWNSHIP, NJ 08234
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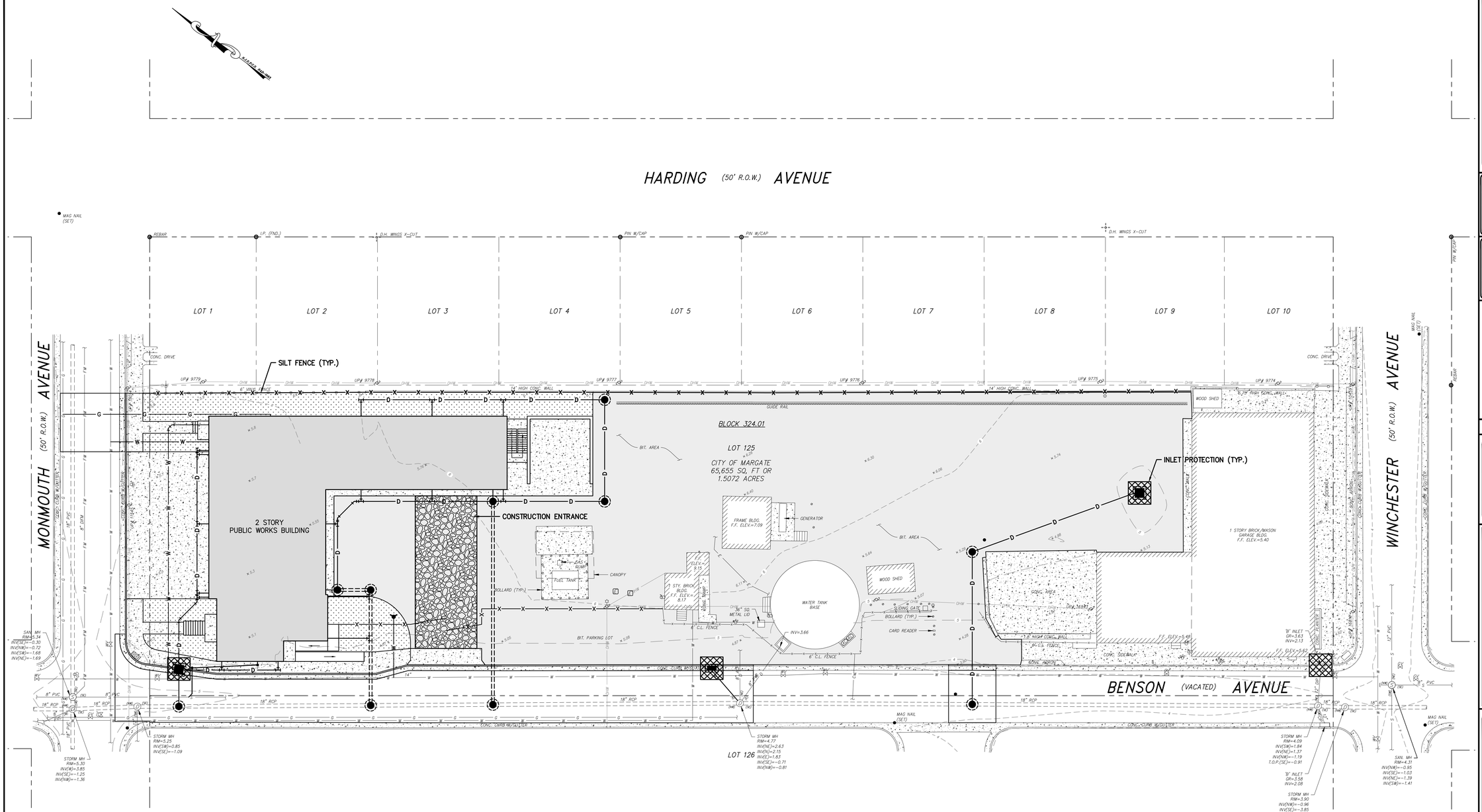
No.	REVISION	DATE	BY	CHK
1	REVISED BUILDING LOCATION	6-24-26	GR	JJ

CONSTRUCTION DETAILS

CITY OF MARGATE
NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE
ATLANTIC COUNTY
NEW JERSEY

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
G.E.R.	J.E.J.	N.R.D.	AS NOTED
DATE : 4-14-25		SHEET No. : 13 of 16	
JOB No. : 01-16-LI-200			

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SURVEY NOTES:

1. THE HORIZONTAL DATUM IS BASED ON THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD-83/2011 ADJ.) AND THE VERTICAL DATUM IS BASED ON NAVD-1988/GEOID 2018. (ADD 1.29 FEET TO THESE ELEVATIONS TO CONVERT TO NGVD-1929 DATUM).
2. PROPERTY AND RIGHT-OF-WAY LINES SHOWN ON THESE PLANS ARE BASED ON FIELD EVIDENCE FOUND AND MAPS AND DEEDS OF RECORDS AS WELL AS THE CURRENT ASSESSMENT RECORDS & TAX MAPS OF THE CITY OF MARGATE, ATLANTIC COUNTY , NEW JERSEY. ADJOINING PROPERTY AND RIGHT-OF-WAY LINES ARE SHOWN FOR GRAPHICAL INFORMATION ONLY AND HAVE NOT BEEN FIELD VERIFIED.
3. EXISTING TOPOGRAPHIC CONDITIONS WERE SURVEYED BY REMINGTON & VERNICK ENGINEERS UNDER THE SUPERVISION OF CHARLES E. ADAMSON, N.J.P.L.S. LICENSE NO. 42627. THE SURVEY WORK WAS COMPLETED ON SEPTEMBER 9, 2024.
4. THIS PLAN AND SURVEY DOES NOT CERTIFY TO THE LOCATION, BOTH HORIZONTAL AND VERTICAL OF ANY UNDERGROUND UTILITY OR STRUCTURE THAT WAS NOT EXPOSED FOR DIRECT MEASUREMENT.
5. THIS SURVEY AND PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. PROPERTY IS SUBJECT TO SUCH STATE OF FACT THAT AN ACCURATE TITLE REPORT MY REVEAL INCLUDING ANY EASEMENTS, RESTRICTIONS AND ENCUMBRANCES.
6. BEARINGS SHOWN ON THIS PLAN HAVE BEEN ROTATED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM AND MAY NOT MATCH ANY PREVIOUSLY RECORDED DEEDS OR PLANS.
7. OFFSET DIMENSIONS SHOWN HEREON ARE NOT TO BE USED FOR ESTABLISHING PROPERTY LINES, SETBACK LINES, FOR CONSTRUCTION OF ANY TYPE OR ANY OTHER PURPOSES OTHER THAN THE INTENDED USE OF THIS SURVEY.

SOIL EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"= 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

RVE 1901
REMINGTON & VERNICK **ENGINEERS**
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DATE:
NICHOLAS R. DICOSMO
NJ PROFESSIONAL ENGINEER LIC. No. 57899

DATE:
JOSEPH E. JOHNSTON
NJ PROFESSIONAL ENGINEER LIC. No. 35729

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL OR DIGITAL SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

No.	REVISION	DATE	BY	CHK
1	REVISED BUILDING LOCATION	6-24-25	GR	JJ

SOIL EROSION & SEDIMENT CONTROL PLAN

CITY OF MARGATE

NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE

ATLANTIC COUNTY NEW JERSEY

DRAWN BY :	DESIGN BY	CHECKED BY :	SCALE :
G.E.R.	J.E.J.	N.R.D.	AS NOTED

DATE : 4-14-25

JOB No : 01-16-U-200

SHEET No : 14 of 16

C:\Users\G_Eberwein\Remington & Vernick Engineers\01-16-U-200 Margate\01-16-U-200 - new public works building\DWG\C-3 SOIL EROSION & SEDIMENT CONTROL PLAN.dwg, 7/30/2025 11:13:13 AM

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, 7TH EDITION, JANUARY 2014, REVISED JULY 2017.
2. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
3. THE SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY LAND DISTURBANCE.
4. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
5. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
6. APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
7. THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
8. ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN SIXTY (60) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
9. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE SOIL CONSERVATION DISTRICT.
10. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
11. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL.
12. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
13. A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS.
14. ALL DRIVEWAYS MUST BE STABILIZED WITH CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
15. REMOVE ANY SEDIMENT THAT MAY BE SPILLED, DROPPED, OR TRACKED OFF THE PROJECT SITE. ALL PAVED RIGHTS-OF-WAY ADJACENT TO THE PROJECT SITE MUST BE MAINTAINED IN A CLEAN, SWEPT CONDITION THROUGHOUT CONSTRUCTION.
16. ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.
17. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
18. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC.
19. NJSA 4:24-39, ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
20. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
21. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
22. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL PILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER.
23. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
24. METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE STANDARDS. HIGH ACID PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A PH OF 4 OR LESS.
25. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
26. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND MAY INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.
27. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
28. USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
29. ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMEN AND IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
30. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPE PLAN.
31. THE PERMANENT VEGETATIVE COVER SUCH AS SEEDING OR SODDING ON ALL AREAS SHALL BE ACCOMPLISHED WITHIN 10 DAYS AFTER FINAL GRADING OPERATIONS HAVE BEEN COMPLETED.
32. EXCAVATED SOIL MATERIAL SHALL NOT BE PLACED ADJACENT TO RIVERS, STREAMS, OR BODIES OF WATER IN A MANNER THAT WILL CAUSE IT TO BE WASHED AWAY BY HIGH WATER OR RUNOFF. EXCESS BORROW MATERIAL REMOVED FROM THE CONSTRUCTION SITE SHALL BE STABILIZED AT THE SITE OF PLACEMENT.
33. THIS CERTIFICATION IS LIMITED TO THE CONTROLS SPECIFIED IN THIS PLAN. IT IS NOT AUTHORIZATION TO ENGAGE IN THE PROPOSED LAND USE UNLESS SUCH USE HAS BEEN PREVIOUSLY APPROVED BY THE MUNICIPALITY, COUNTY, STATE AGENCY OR OTHER CONTROLLING AGENCY.

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

DEFINITION: ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER ON SOILS EXPOSED FOR PERIODS OF TWO TO 6 MONTHS WHICH ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION OR NOT SCHEDULED FOR PERMANENT SEEDING WITHIN 60 DAYS.

PURPOSE: TO TEMPORARILY STABILIZE THE SOIL AND REDUCE DAMAGE FROM WIND AND WATER EROSION UNTIL PERMANENT STABILIZATION IS ACCOMPLISHED.

WATER QUALITY ENHANCEMENT: PROVIDES TEMPORARY PROTECTION AGAINST THE IMPACTS OF WIND AND RAIN, SLOWS THE OVER LAND MOVEMENT OF STORMWATER RUNOFF, INCREASES INFILTRATION AND RETAINS SOIL AND NUTRIENTS ON SITE, PROTECTING STREAMS OR OTHER STORMWATER CONVEYANCES.

WHERE APPLICABLE: ON EXPOSED SOILS THAT HAVE THE POTENTIAL FOR CAUSING OFF-SITE ENVIRONMENTAL DAMAGE.

METHODS AND MATERIALS

1. SITE PREPARATION

   A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.

   B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.

   C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).

2. SEEDBED PREPARATION

   A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE AT THE RATE OF 2 TONS/ACRE UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.

   B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.

   C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH THE ABOVE.

   D. SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, PG. 1-1.

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION (CONTINUED)

3. SEEDING

   A. SELECT SEED FROM RECOMMENDATIONS IN TABLE BELOW.

SEEDING SELECTIONS	SEEDING RATE (pounds)		OPTIMUM SEEDING DATE Based on Plant Hardiness Zone[3]			OPTIMUM SEED DEPTH[4] (inches)
	Per Acre	Per 1000 Sq. Ft.	ZONE 5b, 6a	ZONE 6b	ZONE 7a, b	
COOL SEASON GRASSES						
1. Perennial ryegrass	100	1.0	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15	0.5
2. Spring oats	86	2.0	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15	1.0
3. Winter Barley	96	2.2	8/1-9/15	8/15-10/1	8/15-10/15	1.0
4. Annual ryegrass	100	1.0	3/15-6/1 8/1-9/15	3/15-6/1 8/1-9/15	2/15-5/1 8/15-10/15	0.5
5. Winter Cereal Rye	112	2.8	8/1 - 11/1	8/1 - 11/15	8/1 - 12/15	1.0
WARM SEASON GRASSES						
6. Pearl millet	20	0.5	6/1-8/1	5/15-8/15	5/1 9/1	1.0
7. Millet (German or Hungarian)	30	0.7	6/1-8/1	5/15-8/15	5/1-9/1	1.0

   1. SEEDING RATE FOR WARM SEASON GRASS, SELECTIONS 5 - 7 SHALL BE ADJUSTED TO REFLECT THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.
   2. MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED.
   3. PLANT HARDINESS ZONE (SEE CHART)
   4. TWICE THE DEPTH FOR SANDY SOILS

   B. CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT PER DRILL (TO 10 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.

   C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION IV MULCHING) HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.

   D. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

4. MULCHING

   MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

   A. STRAW OR HAY. UNNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.

      APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

      ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.

   1. PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
   2. MULCH NETTINGS. STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
   3. CRIMPER (MULCH ANCHORING TOOL). A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
   4. LIQUID MULCH-BINDERS. - MAY BE USED TO ANCHOR HAY OR STRAW MULCH.
      a. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.
      b. USE ONE OF THE FOLLOWING:
         (1) ORGANIC AND VEGETABLE BASED BINDERS - NATURALLY OCCURRING, POWDER BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE.
         (2) SYNTHETIC BINDERS - HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

            NOTE: ALL NAMES GIVE ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A COMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.

   B. WOOD-FIBER OR PAPER-FIBER MULCH. SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 PONDS PER ACRE (OR AS RECOMMENDED BY THE PROJECT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

   C. PELLETIZED MULCH. COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORMA MULCH MAT. PELLETIZED MULCH SHALL BE APPLIES IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS./1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEE FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEED-SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE.

      APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

1. SITE PREPARATION

   A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MAINTENANCE.

   B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

2. SEEDBED PREPARATION

   A. APPLY LIMESTONE AND FERTILIZER. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE	LBS./1000 SQ. FT.
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	4	180
SANDY LOAM, LOAM, SILT LOAM	3	135
LOAMY SAND, SAND	2	90

   PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.

   B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COURSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.

   C. REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.

   D. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.

3. SEEDING

   A. SEE PERMANENT SEED MIXTURE FOR SPECIES AND APPLICATION RATES.

   B. APPLY SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDRO-SEEDER TANK WITH SEED, EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDING, SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COURSE TEXTURED SOIL.

   C. AFTER SEEDING, FIRMING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE.

4. MULCHING

   MULCHING IS REQUIRED ON ALL SEEDING.

   A. MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.

   B. SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

   C. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.

   1. PEG AND TWINE- DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
   2. MULCH NETTING- STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
   3. CRIMPER(MULCH ANCHORING TOOL)- A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.

   D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

5. IRRIGATION

   A. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE PERFORMED IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.

6. TOP DRESSING *

   A. SPRING SEEDING WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-10-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15.

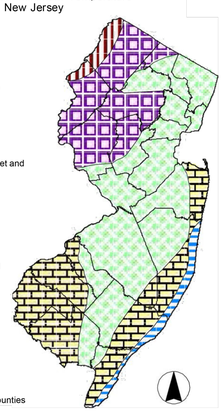
   B. FALL SEEDING WILL REQUIRE THE ABOVE BETWEEN MARCH 15 AND MAY 1.

   C. MIXTURES DOMINATED BY WEEPING LOVEGRASS OR LEGUMES MAY NOT NEED TOPDRESSING.

   * IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THIS FOLLOW-UP OF TOP DRESSING IS NOT MANDATORY.

USDA Plant Hardiness Zones

Average Annual Minimum Temperature
New Jersey



Hardiness Zones

Range of average annual minimum temperatures for each zone (degrees Fahrenheit)

- Zone 5b (-10 to -15) — Includes portions of Sussex and Warren counties
- Zone 6a (-5 to -10) — Includes portions of Sussex, Warren, Passaic, Morris, Somerset and Hunterdon counties
- Zone 6b (0 to -5) — Includes portions of Bergen, Passaic, Morris, Essex, Hudson, Union, Somerset, Middlesex, Mercer, Hunterdon, Monmouth, Ocean, Burlington, Camden, Gloucester, Atlantic, Cumberland and Cape May counties
- Zone 7a (5 to 0) — Includes portions of Camden, Gloucester, Salem, Cumberland, Cape May, Atlantic, Burlington, Ocean and Monmouth counties
- Zone 7b (10 to 5) — Includes portions of Cape May, Atlantic, Ocean and Monmouth counties

10 0 10 20 30 Miles
10 0 10 20 30 Kilometers

After USDA-ARS Misc. Publication 1475
NJDA State Soil Conservation Committee
April 1999

DUST CONTROL

1. THE PURPOSE OF DUST CONTROL MEASURES IS TO PREVENT THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-SITE AND OFF-SITE DAMAGE & HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

   A. MULCHES - REVIEW MULCHING NOTES ABOVE.

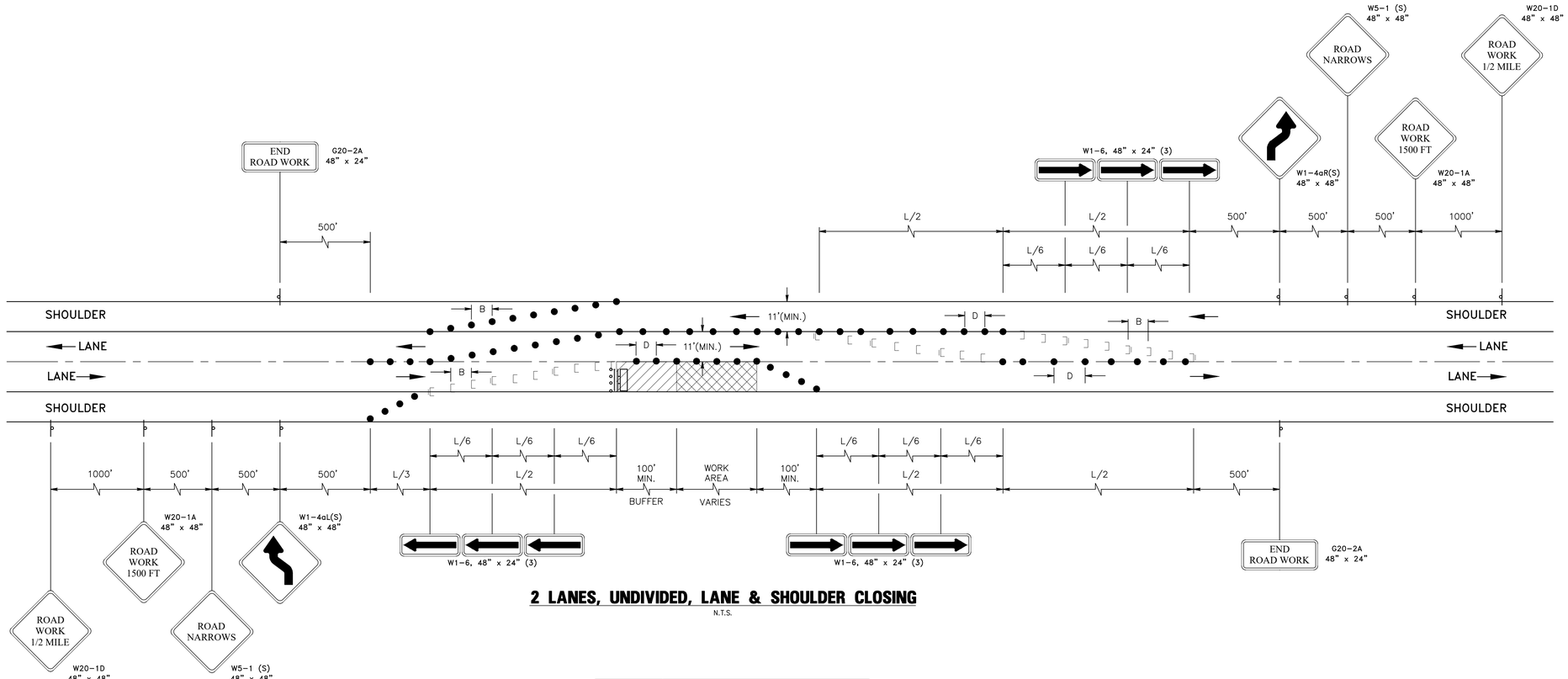
   B. VEGETATIVE COVER - REVIEW NOTES ON TEMPORARY COVER.

   C. SPRAY-ON ADHESIVES -

   D. MATERIAL

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLON/ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) - SPRAY ON	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD, PAGE 26-1.		
POLYACRYLAMIDE (PAM) - DRY SPREAD			
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200

   E. TILLAGE - TO ROUGHEN SURFACE AND BR



2 LANES, UNDIVIDED, LANE & SHOULDER CLOSING

N.T.S.

GENERAL NOTES:

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE 2007 N.J.D.O.T. STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION WITH LATEST AMENDMENT, PROJECT SPECIFICATIONS AND ATLANTIC COUNTY REQUIREMENTS. TRAFFIC SAFETY SERVICES SHALL BE USED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL, SECTION 617.
2. ALL SIGNS TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE M.U.T.C.D..
3. INSTALLATION, DIMENSIONS, COLORS AND DETAILS OF VARIOUS SIZE SIGNS, AND ACCESSORY PANELS TO FOLLOWS "STANDARD HIGHWAY SIGN PUBLICATION" STREETS AND HIGHWAYS".
4. (S) REPRESENTS A SPECIAL SIZE SIGN.
5. LETTERS AND NUMERALS SHALL CONFORM TO THE CURRENT MANUAL, "STANDARD ALPHABETS FOR HIGHWAY SIGNS" U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
6. THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE ENGINEER FOR THE DISTANCE TO BE USED ON THE ADVANCE WARNING SIGNS, AND FOR THE SPEED LIMIT TO BE USED ON THE R2-1 SIGN.
7. DISTANCE LEGEND

SIGN NUMBER FOLLOWED BY LETTER	DISTANCE
A	1500'
B	1000'
C	500'
D	MILE
E	MILES AHEAD
F	AHEAD

8. ADVANCE WARNING SIGNS, DISTANCES, AND TAPER LENGTHS MAY BE EXTENDED, AT DIRECTION OF THE ENGINEER, TO ADJUST FOR REDUCED VISIBILITY DUE TO HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY.
9. RAMPS AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEAST ONE W20-1F SIGN (ROAD WORK AHEAD) AS A MINIMUM.
10. CONSTRUCTION SIGN W99-2 (GIVE US A BRAKE) SHALL BE LOCATED 200 FEET IN ADVANCE OF PROJECT LIMITS.
11. CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE ENGINEER.

BACKING MATERIAL

1. ALUMINUM SHALL BE FLAT SHEET OF 6061-T6 ALLOY, 100 GAUGE.

TEMPORARY SIGN SUPPORTS

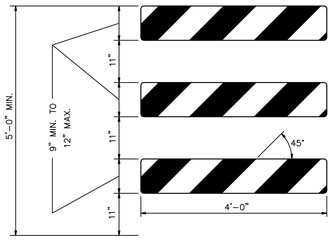
1. SIGN SUPPORTS SHALL BE OF WELL SEASONED LUMBER, S4S, FREE OF SPLITS, KNOTS AND WARPS OR OF STEEL OR ALUMINUM COMPONENTS.
2. WOOD POSTS SHALL HAVE A UNIFORM CROSS-SECTION AND SHALL NOT EXCEED THE FOLLOWING DIMENSIONS FOR:
   SINGLE POST - 4"x6";
   TWO POSTS - 3"x6", OR - 4"x5";
   TWO POSTS - 3"x5" OR - 4"x4"
3. NO BRACING IS PERMITTED. VERTICAL CLEARANCES FOR SIGNS MOUNTED ON WOOD SUPPORTS SHALL BE 7' DESIRABLE, 6' MINIMUM EMBEDMENT DEPTH FOR THE WOOD POST SHALL NOT EXCEED 3.5'.
4. STEEL OR ALUMINUM POSTS SHALL BE IN ACCORDANCE WITH THE STANDARD DETAIL FOR "SELECTING DIRECTIONAL SIGNS, CONSTRUCTION AND "M", "W" AND "R" BEND AWAY SIGN SUPPORTS".
5. TEMPORARY SIGN SUPPORTS NOT MEETING THIS CRITERIA SHALL BE SHIELDED BY A LONGITUDINAL BARRIER OR CRASH CUSHION.

SIGN FACES

1. SIGN FACES SHALL BE REFLECTIVE SHEETING CONFORMING TO SUBSECTION 916.06 TYPE 11 SHEETING.

FASTENING

1. SIGN FACES SHALL BE SECURELY FASTENED TO THEIR SUPPORTS WITH BOLTS, NUTS AND WASHERS OF ALUMINUM (2024-T4 ALLOY) OR HOT-DIP GALVANIZED STEEL (A.S.T.M. 153).



TYPE III BARRICADE - FRONT VIEW

NOTES:

1. THE 9" MIN. x 48", OR 12" MAX. x 48" BARRICADE RAILS SHALL BE FABRICATED FROM 0.125" MAX. PLASTIC SHEETING AND SHALL BE ATTACHED, 4 PER RAIL, WITH 1 INCH NO. 14 PAN HEAD METAL SCREWS OR PLASTIC RIVETS. ALL CORNERS SHALL BE ROUNDED.
2. ORANGE AND SILVER (WHITE) STRIPES SHALL BE RETROREFLECTIVE SHEETING, ASTM D 4956 TYPE III, AS SHOWN FOR CONSTRUCTION SIGNS. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.
3. IF NECESSARY, THE SANDBAGS SHALL BE FABRICATED AND PLACED ACCORDING TO THE MANUFACTURE'S RECOMMENDATION.
4. THE FRAMING FOR BARRICADE PANELS SHALL BE NCHRP-350 CRASHED TESTED AND FHWA APPROVED.

BREAKAWAY BARRICADES

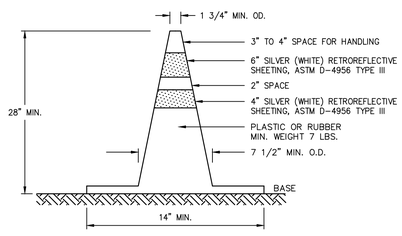
N.T.S.

REGULATORY APPROACH SPEED OF TRAFFIC MILES/HOUR	RECOMMENDED SIGHT DISTANCE TO BEGINNING OF CHANNELIZING TAPERS		
	DESIRABLE		MINIMUM
	RURAL FEET	URBAN FEET	RURAL AND URBAN FEET
25	375	525	150
30	450	625	200
35	525	725	250
40	600	825	325
45	675	925	400
50	750	1025	475
55	875	1150	550
60	1000	1275	650
65	1050		725

NOTE:

1. AVOIDANCE MANEUVER IS FOR A SPEED, PATH, AND/OR DIRECTION CHANGE PRIOR TO THE BEGINNING OF CHANNELIZING TAPERS.
2. RECOMMENDED DISTANCES BETWEEN TWO SEPARATE LANE CLOSURES SHALL BE DOUBLE THE VALUES SHOWN ABOVE.
3. RURAL AND URBAN ROAD DESIGNATIONS SHALL BE AS DEFINED IN THE NJDOT STATE HIGHWAY STRAIGHT LINE DIAGRAMS.
4. DESIRABLE VALUES SHALL BE PROVIDED WHEREVER POSSIBLE. IF IT IS NOT FEASIBLE OR PRACTICAL TO PROVIDE DESIRABLE VALUES BECAUSE OF HORIZONTAL OR VERTICAL CURVATURE OR IF RELOCATION OF THE TAPER IS NOT POSSIBLE, THEN MINIMUM VALUES CAN BE APPLIED. WHEN MINIMUM VALUES ARE USED, SPECIAL ATTENTION SHOULD BE GIVEN TO THE USE OF SUITABLE TRAFFIC CONTROL DEVICES FOR PROVIDING ADVANCED WARNING OF THE CONDITIONS THAT ARE LIKELY TO BE ENCOUNTERED.
5. TAPERS SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.

TRAFFIC CONES TO BE PREDOMINATELY ORANGE IN COLOR



BASES MAY BE OF THE BREAKAWAY BALLASTED TYPE. MINOR MANUFACTURERS VARIATIONS MAY BE ACCEPTED UPON APPROVAL OF THE ENGINEER.

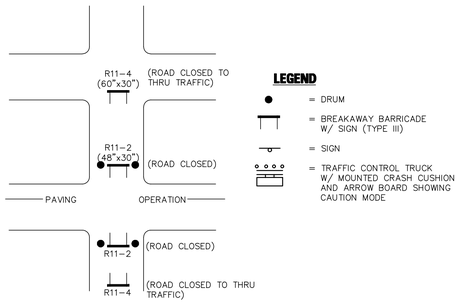
TYPICAL CONE DETAIL

N.T.S.

RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS					RECOMMENDED SPACING ALONG TANGENTS
REGULATORY APPROACH SPEED OF TRAFFIC MILES/HOUR	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	MINIMUM TAPER LENGTH L - FOR LANE WIDTHS 10'	11'	12'	MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET
25	10.5:1	105	115	125	25	50
30	15:1	150	165	180	30	60
35	20.5:1	205	225	245	35	70
40	27:1	270	300	325	40	80
45	45:1	450	495	540	45	90
50	50:1	500	550	600	50	100
55	55:1	550	605	660	55	110
60	60:1	600	660	720	60	120
65	65:1	650	715	780	65	130

NOTE:

THE MAXIMUM DEVICE SPACING ALONG CURVES SHALL BE AS DEFINED FOR TAPERS (B) IN THE ABOVE TABLE.



TRAFFIC CONTROL PLAN

N.T.S.

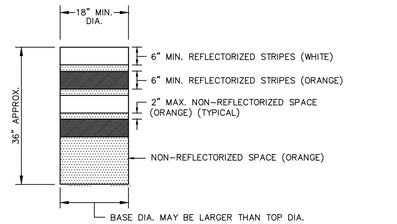
NOTES:

DRUMS SHALL BE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR ALTERNATE FLUORESCENT ORANGE AND SILVER (WHITE) RETROREFLECTIVE STRIPES. IF THERE ARE NON-REFLECTORIZED SPACES BETWEEN THE STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE. REFLECTIVE SHEETING FOR STRIPES SHALL CONFORM WITH ASTM D 4956 S2 REQUIREMENTS AND SHALL BE FROM THE APPROVED PRODUCTS LIST MAINTAINED BY THE BUREAU OF QUALITY MANAGEMENT SERVICES, NEW TECHNOLOGIES AND PRODUCTS SECTION.

THE TOP OF THE DRUM SHALL NOT BE OPEN. DRUMS SHALL BE CONSTRUCTED TO INHIBIT ROLLING IF KNOCKED OVER.

THE REFLECTORIZED AREA OF DRUMS SHALL BE ROUND EXCEPT THAT OTHER SHAPES, WHICH PROVIDE THE SAME VISIBILITY AS AN 18" DIAMETER ROUND DRUM REGARDLESS OF ORIENTATION, MAY BE USED IF APPROVED BY THE BUREAU OF MATERIALS.

WHEN BALLAST IS REQUIRED BY THE ENGINEER, SAND SHALL BE USED. THE MAXIMUM WEIGHT OF THE BALLAST SHALL BE 50 LBS. AND BE LOCATED APPROXIMATELY AT GROUND LEVEL. ALTERNATE TYPES OF BALLAST SHALL BE APPROVED BY THE ENGINEER.



DRUM DETAIL

N.T.S.

REMINGTON & VERNICK ENGINEERS
2819 FIRE ROAD, 1ST FLOOR
EGG HARBOR TOWNSHIP, NJ 08234
(609) 645-7110, FAX (609) 645-7076
WEB ADDRESS : RVE.COM
Certification of Authorization: 24 GA 28003300
Excellence • Innovation • Service

DATE:
NICHOLAS R. DICOSMO
NJ PROFESSIONAL ENGINEER LIC. No. 57899

DATE:
JOSEPH E. JOHNSTON
NJ PROFESSIONAL ENGINEER LIC. No. 35729

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL OR DIGITAL SEAL ARE NOT VALID

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No.	REVISION	DATE	BY	CHK
1	REVISED BUILDING LOCATION	6-24-26	GR	JJ

TRAFFIC CONTROL DETAILS

CITY OF MARGATE
NEW PUBLIC WORKS BUILDING - BLOCK 324.01, LOT 125
CITY OF MARGATE
ATLANTIC COUNTY
NEW JERSEY

DRAWN BY :	DESIGN BY :	CHECKED BY :	SCALE :
G.E.R.	J.E.J.	N.R.D.	AS NOTED
DATE : 4-14-25		SHEET No. : 16 of 16	
JOB No. : 01-16-U-200			

C:\Users\G_Rieker\AppData\Local\Temp\AcPublish_6240\[01-16-U-200 - new public works building(CONTRACT DOCUMENTS).dwg] 7/16/2026 11:12:31 AM

GENERAL NOTES

DESIGN CRITERIA

1. LIVE LOAD:
   - A. ROOF LIVE LOAD 20 PSF
   - B. FLOOR LIVE LOAD 100 PSF
   - C. SECOND FLOOR LIVE LOAD AT STORAGE 250 PSF
2. DEAD LOAD
   - A. STRUCTURAL AND BUILDING COMPONENTS SELF WEIGHT
   - B. COLLATERAL DEAD LOAD OVER SLOPED ROOF (SOLAR) 10 PSF
3. WIND LOADING PER IBC 2021:
   - A. BASIC WIND VELOCITY (V): 139 MPH
   - B. EXPOSURE CATEGORY: C
   - C. RISK CATEGORY: IV
4. SEISMIC LOADING PER IBC 2021:
   - A. RESPONSE ACCELERATOR:
     S/S = 0.119 S/DS = 0.127
     S/I = 0.040 S/DI = 0.063
   - B. SEISMIC DESIGN CATEGORY: A
   - C. SEISMIC SITE CLASSIFICATION: D
   - D. IMPORTANCE FACTOR I/E: 1.50
5. SNOW LOADING PER IBC 2021:
   - A. GROUND SNOW LOAD: 20 PSF
   - B. IMPORTANCE FACTOR: 1.20
6. SPECIAL LOADS:
   - A. HANDRAILS/GUARDRAILS: IN COMPLIANCE WITH THE PROVISIONS OF IBC 2021 SEE PROJECT SPECIFICATIONS.

FOUNDATIONS

1. ALL EXISTING FILL MATERIALS, CONSISTING OF GRAVEL, BRICK FRAGMENTS, CONCRETE CHIPS, WOOD CHIPS, AND DEMOLITION DEBRIS SHALL BE REMOVED IN THE REGIONS OF ALL FOUNDATIONS AND UNDER AREAS OF SLAB-ON-GRADE.
2. THE SLAB ON GRADE SHALL REST ON A MINIMUM OF 4 INCHES OF 3/4" CLEAN CRUSHED STONE OR A 12 INCH THICK LAYER (MINIMUM) OF WELL-GRADED SAND AND GRAVEL WITH NOT MORE THAN 5% NON-PLASTIC FINES.
3. PROOF ROLL SLAB SUBGRADE UNDER THE DIRECTION OF THE INSPECTION AGENCY. REMOVE ALL UNSUITABLE AREAS AND REPLACE WITH COMPACTED STRUCTURAL FILL MATERIALS. COMPACT FILL TO AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE ASTM D 1557 MODIFIED PROCTOR TEST.
4. EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION.
5. ALL ADJACENT COLUMN FOOTINGS THAT ABUT SHALL BE SEPARATED BY A PAPER JOINT.
6. BACKFILLING AGAINST WALLS SHALL NOT BE DONE UNTIL CONCRETE HAS BEEN CURED TO ATTAIN SUFFICIENT STRENGTH (7 DAYS MINIMUM) AND WALLS ARE PROPERLY SHORED AND/OR BRACED. BACKFILL FOUNDATION WALLS WITH EARTH ON BOTH SIDES OF THE WALL BY ALTERNATELY PLACING BACKFILL ON EACH SIDE SO THAT HEIGHT OF BACKFILL DOES NOT DIFFER BY MORE THAN 1'-6" FROM OTHER SIDE.
7. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS AND ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER.
8. NO HORIZONTAL JOINTS SHALL BE PLACED IN WALLS EXCEPT AS SHOWN ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS OF TRENCHES, PITS, CONDUITS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

PILE NOTES

1. ALL PILES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
2. THE PILES SHALL HAVE A NOMINAL CAPACITY OF 100 TONS AND A FACTORED CAPACITY OF 40 TONS.
3. THE PILE LENGTH IS ESTIMATED TO BE 35 FEET LONG.
4. STEEL PIPE FOR CAST-IN-PLACE PILES SHALL BE 14 INCH O.D. X 0.375 INCH WALL THICKNESS. THE PIPE SHALL MEET THE REQUIREMENTS OF ASTM A252 GRADE 3 MODIFIED, HAVING A YIELD STRESS OF AT LEAST 50 KSI.
5. THE PILE TIP SHALL BE CLOSED WITH A FLAT PLATE, 14 INCH DIAMETER AND A MINIMUM THICKNESS OF 1 INCH, WELDED FLUSH WITH THE OUTSIDE DIAMETER OF PILE (NO PROJECTION).
6. CONCRETE PLACED IN THE CAST-IN-PLACE PILES SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI.
7. THE LENGTH OF REINFORCEMENT EMBEDDED INTO THE PILE SHALL BE 9 FEET.
8. THE MINIMUM PILE SPACING SHALL BE 3'-6" CENTER-TO-CENTER.
9. AT LEAST TWO (2) "DRIVE TEST PILES" SHALL BE INSTALLED TO DETERMINE THE DRIVING CHARACTERISTICS AND THE REQUIRED PILE LENGTHS MORE ACCURATELY.
10. A WAVE EQUATION ANALYSIS (WEAP) SHALL BE PERFORMED AND SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR REVIEW PRIOR TO THE INSTALLATION OF THE TEST PILES. PDA AND CAPWAP ANALYSIS SHALL BE CONDUCTED DURING THE INSTALLATION OF THE TEST PILES TO DETERMINE THE REQUIRED DRIVING CRITERIA FOR THE PRODUCTION PILES AND TO VERIFY THAT THE DESIGN LOAD CAPACITY IS ACHIEVED.
11. DURING THE INSTALLATION OF PILES IN GROUPS, OBSERVATION SHALL BE MADE TO ANY HEAVE OR PILES PREVIOUSLY DRIVEN, WHICH MAY OCCUR DUE TO DISPLACEMENT CAUSED BY THE DRIVING OF ADJACENT PILES. ANY SUCH PILE WHICH SHOWS HEAVE SHOULD BE RETAPPED TO THE ORIGINAL DRIVING RESISTANCE.
12. ALL PILE INSTALLATION SHALL BE CONDUCTED IN THE FULL-TIME PRESENCE OF A GEOTECHNICAL ENGINEER, WHO SHALL EVALUATE AND CORRELATE THE DRIVING DATA AND DEPTH OF PENETRATION OF EACH PILE WITH THE RESULTS OF THE TEST PILES AND THE TEST BORING DATA. THE GEOTECHNICAL ENGINEER SHALL ENSURE THAT THE TIP ELEVATION OF EACH PILE IS SATISFACTORILY LOCATED IN THE PROPER BEARING STRATUM AND THE REQUIRED COMPRESSION LOAD CAPACITY OF EACH PILE IS ATTAINED, BASED ON THE DRIVING RESISTANCE.

FOUNDATION CONCRETE

1. ALL CONCRETE SHALL BE NORMAL WEIGHT STRUCTURAL CONCRETE HAVING A DESIGN COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
   - A. FOOTINGS 4,000 PSI
   - B. WALLS AND PIERS 4,000 PSI
   - C. SLAB-ON-GRADE 4,000 PSI
   - D. PILES 4,000 PSI
2. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN APPROVED BY THE ENGINEER.
3. REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A615, GRADE 60. LAP BARS 48 DIAMETER UNLESS OTHERWISE SHOWN. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
5. ALL MESH SHALL BE SPLICED SO THAT THE OVERLAP OF THE OUTERMOST CROSS WIRES OF EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2 INCHES, UNLESS NOTED OTHERWISE.
6. FOR ALL SLABS ON GRADE WHERE NOT OTHERWISE SPECIFIED, USE 6x6-W2.9xW2.9 W.W.F.
7. MINIMUM STEEL PROTECTION, UNLESS OTHERWISE SHOWN, SHALL BE 1-INCH FOR INTERIOR FACE OF WALLS, 2 INCHES FOR EXTERIOR FACE OF WALLS, 3 INCHES FOR FOOTINGS AND OTHER STRUCTURAL CONCRETE DEPOSITED AGAINST GROUND, 2 INCHES FOR CONCRETE PERMANENTLY EXPOSED TO EARTH OR WEATHER.
8. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS, SUCH AS DAY'S POUR JOINTS, SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN, MAIN REINFORCING TO RUN THROUGH THE JOINT, KEY AND ROUGHEN JOINTS TO EXPOSE AGGREGATE. CONTRACTOR SHALL SUBMIT DRAWING INDICATING CONSTRUCTION JOINT LOCATIONS FOR APPROVAL.
9. NO CONCRETE SHALL BE PLACED IN WATER.
10. ALL SLABS ON GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS SHOWN ON OR AS REQUIRED BY VARIOUS TRADES.
11. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR CONCRETE FINISHES.
12. FOR ADDITIONAL CONCRETE WORK NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
13. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB SLOPES.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS, LATEST EDITION:
   - A. STRUCTURAL STEEL SHAPES ASTM A992 HAVING A MINIMUM YIELD STRENGTH OF 50 KSI.
   - B. MISC SHAPES, BARS, AND PLATES - A36 HAVING A MINIMUM YIELD STRENGTH OF 36 KSI.
   - C. ROUND PIPE - A53, GRADE B HAVING A MINIMUM YIELD STRENGTH OF 35 KSI.
2. SQUARE AND RECTANGULAR TUBING - A500, GRADE C HAVING A MINIMUM YIELD STRENGTH OF 50 KSI.
3. BOLTS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS: HIGH STRENGTH BOLTS-A325 OR A490; ANCHOR BOLTS-F1554; STANDARD FASTENERS-A307.
4. ALL WELDING ELECTRODES SHALL CONFORM TO THE E-70 SERIES OF THE SPECIFICATION FOR MILD STEEL ARC WELDING ELECTRODES ASTM A233.
5. ALL BOLTS SHALL BE 3/4-INCH DIAMETER, OPEN HOLES 13/16-INCH DIAMETER, UNLESS OTHERWISE SHOWN OR NOTED.
6. ALL SHOP CONNECTIONS MAY BE HIGH STRENGTH BOLTED OR WELDED.
7. ALL FIELD CONNECTIONS MAY BE HIGH STRENGTH BOLTED EXCEPT WHERE DETAILS INDICATE WELDING.
8. ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
9. ALL HIGH STRENGTH BOLTED CONNECTIONS SHALL BE FULLY PRE-TENSIONED UNLESS NOTED OTHERWISE.
10. ALL HIGH STRENGTH BOLTS IN OVERSIZED HOLES SHALL BE SLIP CRITICAL.
11. ALL HIGH STRENGTH BOLTED CONNECTIONS USED FOR KICKERS AND BRACING MEMBERS WHICH ARE FABRICATED WITH SLOTTED HOLES SHALL USE SLIP-CRITICAL BOLTS. IF STANDARD HOLES ARE USED, BOLTS SHALL BE FULLY PRE-TENSIONED.
12. NO PENETRATIONS ARE PERMITTED THROUGH STRUCTURAL STEEL MEMBERS UNLESS INDICATED ON STRUCTURAL DRAWINGS OR APPROVED BY ENGINEER.
13. APPROVAL OF THE ENGINEER SHALL BE MANDATORY FOR THE USE OF CUTTING TORCH IN THE FIELD.
14. DURING ERECTION, STRUCTURAL STEEL FRAME SHALL BE ADEQUATELY BRACED IN ALL LINES, TWO WAYS.
15. CONNECTIONS SHALL BE DESIGNED PER AISC TO CARRY FULL CAPACITY OF UNIFORMLY LOADED MEMBER, UNLESS NOTED OTHERWISE. REACTIONS GREATER THAN FULL MEMBER CAPACITY ARE INDICATED THUS (60K) ON PLAN.
16. ALL GROUT UNDER STEEL PLATES SHALL BE NON-SHRINK "PRE-MIX" TYPE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
17. FOR ALL MISCELLANEOUS STEEL CONSTRUCTION NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
18. EXPANSION BOLTS SHALL BE 3/4-INCH DIAMETER KWIK BOLT ANCHORS AS MANUFACTURED BY HILTI OR APPROVED EQUIVALENT AS APPROVED BY THE ENGINEER, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
19. ALL STEEL COLUMN BASE PLATES SHALL INCLUDE LEVELING PLATES AS REQUIRED FOR CONSTRUCTION.
20. ALL EXPOSED / EXTERIOR STEEL SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL, UNLESS OTHERWISE NOTED. THE MANUFACTURER IS RESPONSIBLE FOR QUANTITY & LOCATION OF THEIR ITEMS.

SUPERSTRUCTURE CONCRETE (SUPPORTED BY METAL DECK)

1. ALL CONCRETE ON METAL DECK SHALL BE NORMAL WEIGHT CONCRETE HAVING A DESIGN COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
2. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE AND HAVE BEEN APPROVED BY THE ENGINEER.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
4. PROVIDE 6x6-W4.0xW4.0 WELDED WIRE FABRIC IN ALL CONCRETE SLABS ON METAL DECK UNLESS NOTED OTHERWISE.
5. ALL WELDED WIRE FABRIC SHALL BE SPLICED SO THAT THE OVERLAP BETWEEN OUTERMOST CROSS WIRES OF EACH SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2 INCHES, UNLESS OTHERWISE SHOWN ON DRAWINGS.
6. THE CONTRACTOR SHALL CALCULATE AND INCLUDE ALL ADDITIONAL CONCRETE THAT MAY BE REQUIRED DURING PLACING DUE TO DEFLECTION OF STRUCTURE.
7. THE CONTRACTOR SHALL DEPOSIT ALL CONCRETE, DURING PLACING, IN SUCH A MANNER AS NOT TO OVERLOAD THE METAL DECK.
8. CONCRETE THICKNESS INDICATED ARE MINIMUM THICKNESS OVER METAL DECK.

MASONRY

1. HOLLOW CONCRETE MASONRY UNITS ASTM C90, GRADE N, TYPE 1 NORMAL WEIGHT 1900 PSI NET AREA COMPRESSIVE.
2. MORTAR SHALL BE ASTM C270, TYPE S FOR ALL REINFORCED MASONRY, EXTERIOR WALLS AND WALLS BELOW GRADE.
3. GROUT SHALL BE ASTM C476, 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
4. REINFORCING STEEL GRADE 60 REINFORCING BARS.
5. HORIZONTAL JOINT REINFORCEMENT ASTM A951.
6. STRENGTH OF MASONRY ASSEMBLY f'm = 1,900 PSI.
7. CONSTRUCTION SHALL CONFORM TO SPECIFICATIONS FOR MASONRY STRUCTURES, ACI 530.1
8. REINFORCING METAL TIES AND ANCHORS SHALL BE PROTECTED FROM CONTACT WITH SOIL AND BEFORE BEING PLACED SHALL BE FREE FROM LOOSE RUST AND OTHER COATINGS THAT WILL DESTROY OR REDUCE THE BOND. MINIMUM LAP SHALL BE 48 BAR DIAMETERS FOR REBAR AND 6" FOR JOINT REINFORCEMENT.
9. SHOP DRAWINGS SHOWING ALL BAR REINFORCING IN ELEVATION (1/8" TO 1'-0" MINIMUM SCALE) SHALL BE SUBMITTED AND REVIEWED PRIOR TO CONSTRUCTION.
10. ALL MASONRY WALLS TO HAVE 9 GAGE TRUSS TYPE HORIZONTAL REINFORCEMENT AT 16 INCHES ON CENTER.
11. MASONRY UNITS SHALL BE STEAM CURED, A MINIMUM OF 28 DAYS AT THE TIME OF DELIVERY AND CONTINUOUSLY PROTECTED FROM EXPOSURE TO RAIN OR OTHER SOURCES OF WATER FROM TIME OF CASTING TO FINAL PLACEMENT IN WALL. MASONRY UNITS SHALL BE DRY, FREE FROM SOIL, ICE AND FROST WHEN LAID IN WALL. SEE ACI 530.1 FOR COLD AND HOT WEATHER CONSTRUCTION AND WALL PROTECTION REQUIREMENTS.

LIGHT GAGE METAL FRAMING

1. ALL GALVANIZED MATERIAL SHALL CONFORM TO THE FOLLOWING:
   - A. STUDS AND JOISTS OF 12, 14, AND 16 GAGE: ASTM A446, GRADE D, FY=50,000 PSI MINIMUM
   - B. STUDS AND JOISTS OF 18 AND 20 GAGE, TRACKS, BRIDGING, AND ACCESSORIES: ASTM A446, GRADE A, FY=33,000 PSI MINIMUM.
2. ALL GALVANIZED MATERIAL SHALL BE FORMED FROM STEEL HAVING A MINIMUM G-60 GALVANIZED COATING CONFORMING TO ASTM A525.

EXISTING CONSTRUCTION

1. ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS ARE OBTAINED FROM AVAILABLE SOURCES AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AND START OF WORK AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEER.

METAL DECKING

1. METAL DECKING SHALL BE MADE OF STEEL CONFORMING TO ASTM A446 FOR GALVANIZED DECK HAVING A MINIMUM YIELD STRENGTH OF 33,000 PSI. CORRUGATED METAL DECK FOR PERMANENT FORMWORK SHALL BE MADE OF STEEL CONFORMING TO ASTM A446, GRADE E WITH A MINIMUM YIELD STRENGTH OF 80,000 PSI.
2. METAL DECKING USED IN FLOOR CONSTRUCTION SHALL HAVE A PROTECTIVE ZINC COATING CONFORMING TO ASTM A525, G-90. METAL DECKING USED IN ROOF CONSTRUCTION SHALL HAVE A PROTECTIVE ZINC COATING CONFORMING TO ASTM A525, G-90.
3. ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER THREE SPANS MINIMUM, AND SHALL BEAR AT LEAST 2 INCHES ON STEEL SUPPORTS. FOR ONE OR TWO SPAN CONDITIONS, THE CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED, OR FURNISH HIGHER GAGE DECK AS REQUIRED TO SUPPORT ALL THE APPLICABLE LOADS.
4. DECK SHALL BE WELDED TO SUPPORTING STEEL AT ENDS OF UNITS AND AT ALL INTERMEDIATE SUPPORTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SIDE LAPS SHALL BE WELDED OR SCREWED AT 3'-0" ON CENTER MAXIMUM FOR SPANS OF 5'-0". USE WELDING WASHERS FOR ATTACHING METAL DECK OF 23 GAGE OR LIGHTER.
5. PROVIDE REINFORCING CHANNELS, STANDARD CLOSURES, CANT STRIPS, FINISH STRIPS, POUR STOPS AND OTHER ACCESSORIES AS SHOWN ON DRAWINGS OR AS REQUIRED.
6. METAL DECK SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES PER FOOT WIDTH:
   - A. 1 1/2" ROOF DECK, TYPE B, WIDE RIB 20 GAGE, I = 0.217 IN^4/FT
     (ROOF CONSTRUCTION) S = 0.229 IN^3/FT
   - B. 1 1/2" NON-COMPOSITE DECK, TYPE C, WIDE RIB 20 GAGE, I = 0.217 IN^4/FT
     (FLOOR CONSTRUCTION) S = 0.229 IN^3/FT

DEMOLITION NOTES

1. REMOVE EXISTING CONSTRUCTION AS SHOWN ON PLANS. SEE SECTIONS AND DETAILS FOR EXTENT OF STRUCTURE TO BE REMOVED.
2. EXISTING STRUCTURAL STEEL FRAMING SHALL REMAIN UNLESS SPECIFICALLY NOTED ON PLAN TO BE REMOVED.
3. CONCRETE ENCASEMENT AROUND REMAINING STEEL WILL REMAIN, UNLESS NOTED OTHERWISE.
4. IF FIELD CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, NOTIFY ENGINEER BEFORE PROCEEDING WITH DEMOLITION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY SUPPORTING STRUCTURAL FRAMING SYSTEMS DURING SELECTIVE DEMOLITION

MISCELLANEOUS

1. CONTRACTOR SHALL VERIFY CONDITIONS IN THE FIELD AND IMMEDIATELY NOTIFY ENGINEER OF ANY CONDITIONS NOT AS ASSUMED; HE SHALL TAKE FIELD MEASUREMENTS AS REQUIRED AND BE RESPONSIBLE FOR SAME.
2. CONTRACTOR SHALL COORDINATE WITH ALL RELATED TRADES FOR DETAILING, FABRICATION, AND ERECTION PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL.
3. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC. REQUIREMENTS. DISCREPANCIES AND/OR INTERFERENCE SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
4. GENERAL CONTRACTOR TO PROVIDE APPROPRIATE NUMBER OF COPIES OF ONE COMPLETE COORDINATED DRAWING SHOWING ALL SLEEVES, CONDUIT BOXOUT, DUCT OPENINGS, ETC. AS REQUIRED FOR ALL TRADES FOR ENGINEER'S APPROVAL. THIS SHALL BE DONE A MINIMUM OF TWO WEEKS PRIOR TO POURING AFFECTED SLABS, COLUMNS, OR FOOTINGS.
5. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS OR OTHER APPROVAL FROM THE ENGINEER.
6. SUPPORT DETAILS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT IS BASED UPON AVAILABLE INFORMATION OF MANUFACTURER. CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ACTUAL EQUIPMENT AND SHALL PROVIDE ANY ADDITIONAL REQUIRED FRAMING.

ABBREVIATIONS

E.F.	EACH FACE
WF1	WALL FOOTING
CMU	CONCRETE MASONRY UNIT
V.I.F.	VERIFY IN FIELD
O.C.	ON CENTER
E.W.	EACH WAY
T&B	TOP & BOTTOM
AL	ALUMINUM
CS	CARBON STEEL
SS	STAINLESS STEEL
CL	CENTER LINE
GALV.	GALVANIZED

STRUCTURAL DRAWING LIST

SHEET #	DESCRIPTION
S1.0	STRUCTURAL COVER SHEET
S1.1	PILE LOCATION PLAN
S1.2	FOUNDATION PLAN
S1.3	GROUND FLOOR AND FIRST FLOOR TOP OF SLAB AND LINTEL PLAN
S1.4	SECOND FLOOR STEEL FRAMING PLAN
S1.5	ROOF BEARING STEEL FRAMING PLAN
S1.6	ROOF TRUSS FRAMING PLAN
S1.7	STAIRWELLS AND GENERATOR STEEL FRAMING PLANS
S2.1	BUILDING SECTIONS
S2.2	BUILDING SECTIONS
S2.3	ELEVATOR PIT, STAIR SECTION, AND RAMP SECTION
S3.1	SECTIONS AND DETAILS
S3.2	SECTIONS AND DETAILS

SPECIAL INSPECTION AND TESTS

1	SPECIAL INSPECTIONS WILL BE CONDUCTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2021 NEW JERSEY EDITION. BY THE ENGINEER, INCLUDING BUT NOT LIMITED TO FOLLOWING BUILDING CONSTRUCTION AND OPERATIONS. CONTRACTOR SHALL COORDINATE WITH AND PROVIDE ACCESS FOR THE ENGINEER TO CONDUCT THE INSPECTION. - IBC CHAPTER 17
A	STEEL CONSTRUCTION - IBC 1705.2, 1705.2.1, 1705.2.2, 1705.2.3
B	CONCRETE CONSTRUCTION - IBC 1705.3, 1705.3.1, 1705.3.2
C	MASONRY CONSTRUCTION - IBC 1705.4, 1705.4.1
D	WOOD CONSTRUCTION - IBC 1705.5, 1705.5.1
E	SOILS - IBC 1705.6
F	CAST-IN-PLACE DEEP FOUNDATIONS - IBC 1705.8
G	WIND RESISTANCE - IBC 1705.12, 1705.12.2, 1705.12.3

100% CD DEVELOPMENT
NOT FOR CONSTRUCTION
03/13/2025

REMINGTON & VERNICK ENGINEERS
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Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

DATE: 03/13/2025
JACQUELINE D. TROVATO
NJ PROFESSIONAL ENGINEER LIC. No. 51944

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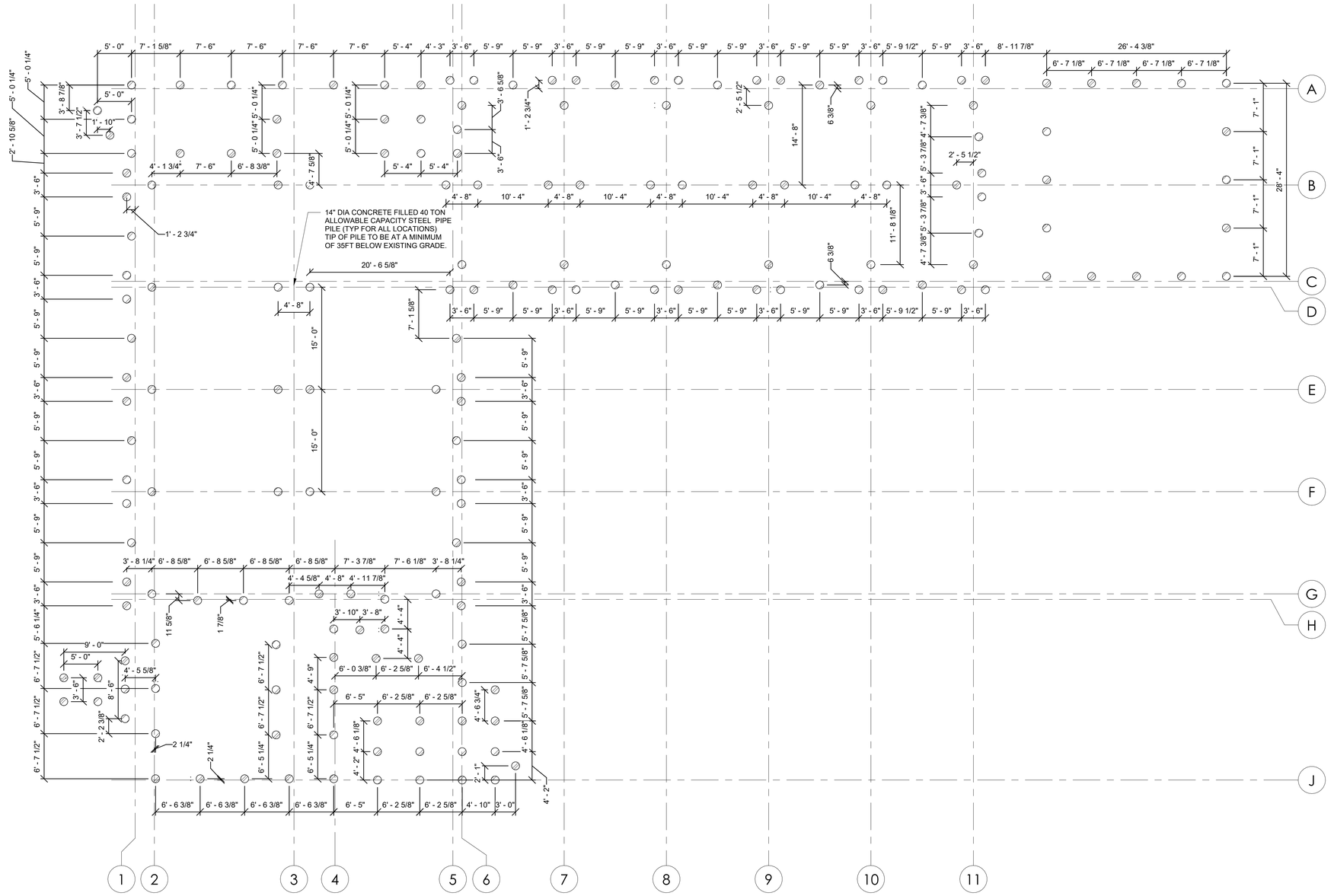
No.	REVISION	DATE	BY	CHK

STRUCTURAL COVER SHEET

MARGATE CITY
NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY NEW JERSEY
MARGATE CITY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
MLM	ZB	JDT	1" = 1'-0"
DATE: 12.01.2024		SHEET No.: S1.0	
JOB No.: 0116U200			

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A S1.1 PILE LOCATION PLAN

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

REFER TO CIVIL / SITE PLANS FOR FINISHED GRADES.

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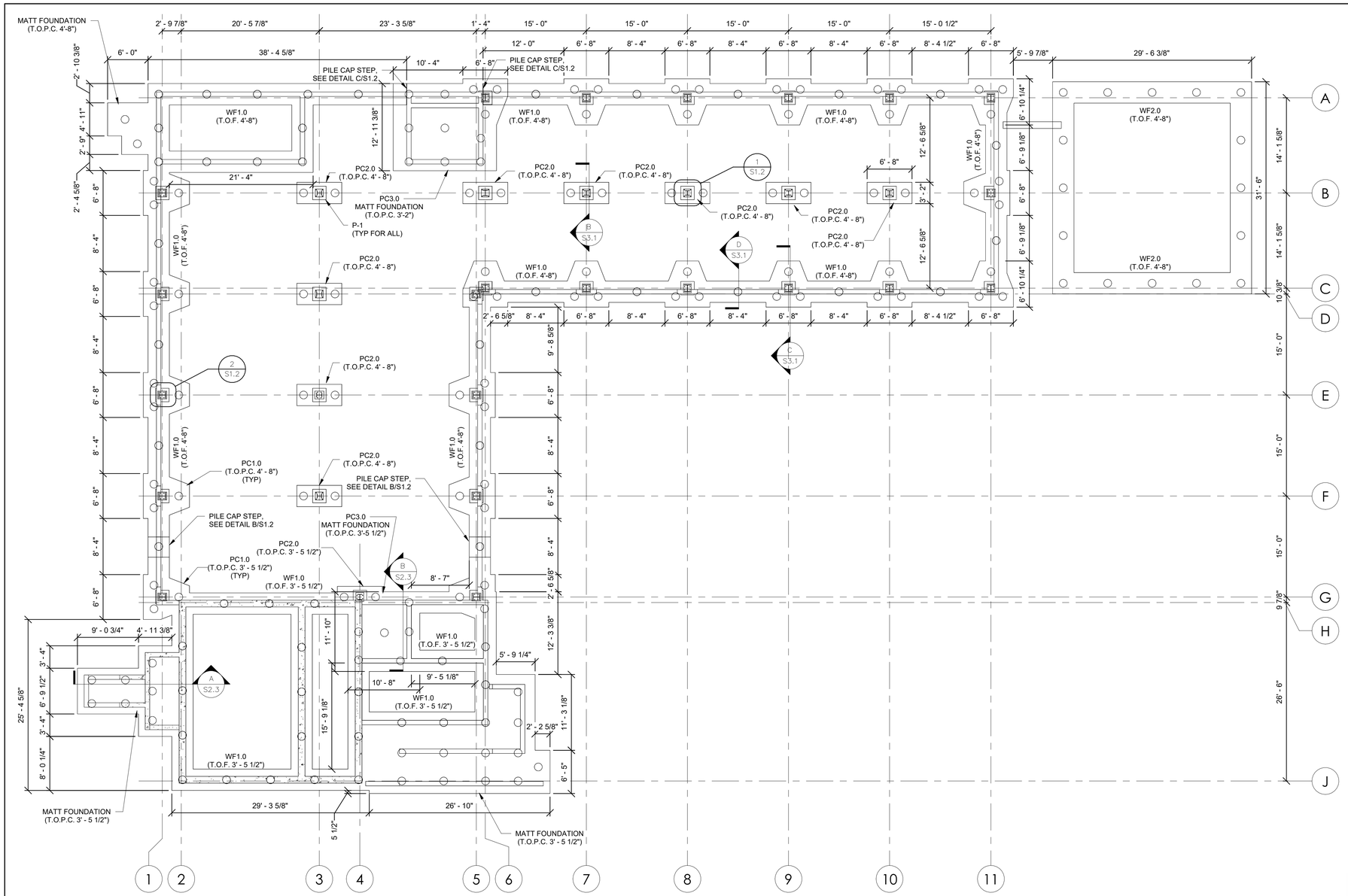
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PILE LOCATION PLAN

MARGATE CITY
NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY NEW JERSEY

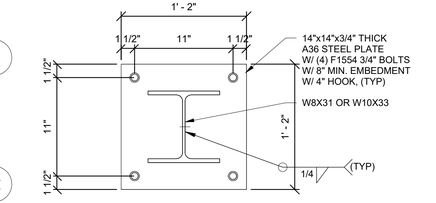
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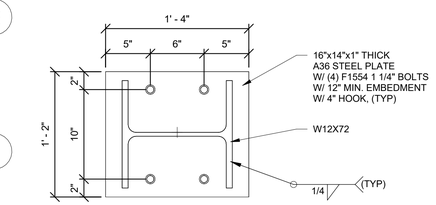


A S1.2 **FOUNDATION PLAN**
SCALE: 1/8" = 1'-0"

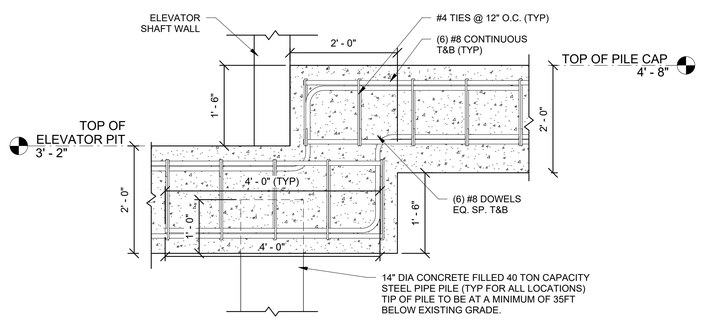
REFER TO CIVIL / SITE PLANS FOR FINISHED GRADES.



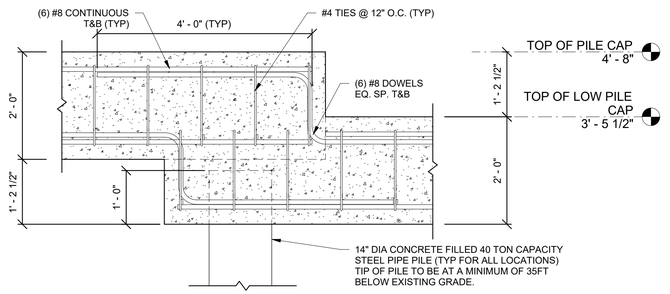
1 S1.2 **BP-1**
SCALE: 1 1/2" = 1'-0"



2 S1.2 **BP-2**
SCALE: 1 1/2" = 1'-0"



C S1.2 **PILE CAP STEP B**
SCALE: 3/4" = 1'-0"



B S1.2 **PILE CAP STEP A**
SCALE: 3/4" = 1'-0"

FOUNDATION WALL PILE CAP SCHEDULE

WF1.0	WF2.0
3'-2"W x 24" THICK W/ (6) #8 T&B, W/ #4 TIES @ 12" O.C., 3" COVER (TYP)	3'-2"W x 24" THICK W/ (6) #8 T&B, W/ #4 TIES @ 9" O.C., 3" COVER (TYP)

PILE CAP SCHEDULE

PC1.0	PC2.0	PC3.0
5'-4"x5'-6"x24" THICK TRIANGULAR W/ #8 @ 9" O.C. T&B, E.W.; 3" COVER (TYP)	6'-8"x3'-2"x24" THICK W/ #8 @ 9" O.C. T&B, E.W.; 3" COVER (TYP)	MATT FOUNDATION PER PLAN x 24" THICK W/ #8 @ 9" O.C. T&B, E.W.; 3" COVER (TYP)

PIER SCHEDULE

MARK	LENGTH	WIDTH	TOP OF PIER	REINFORCEMENT
P-1	2'-0"	2'-0"	7'-2"	(12) #7 VERTICAL BARS W/ #4 TIES @ 12" O.C.

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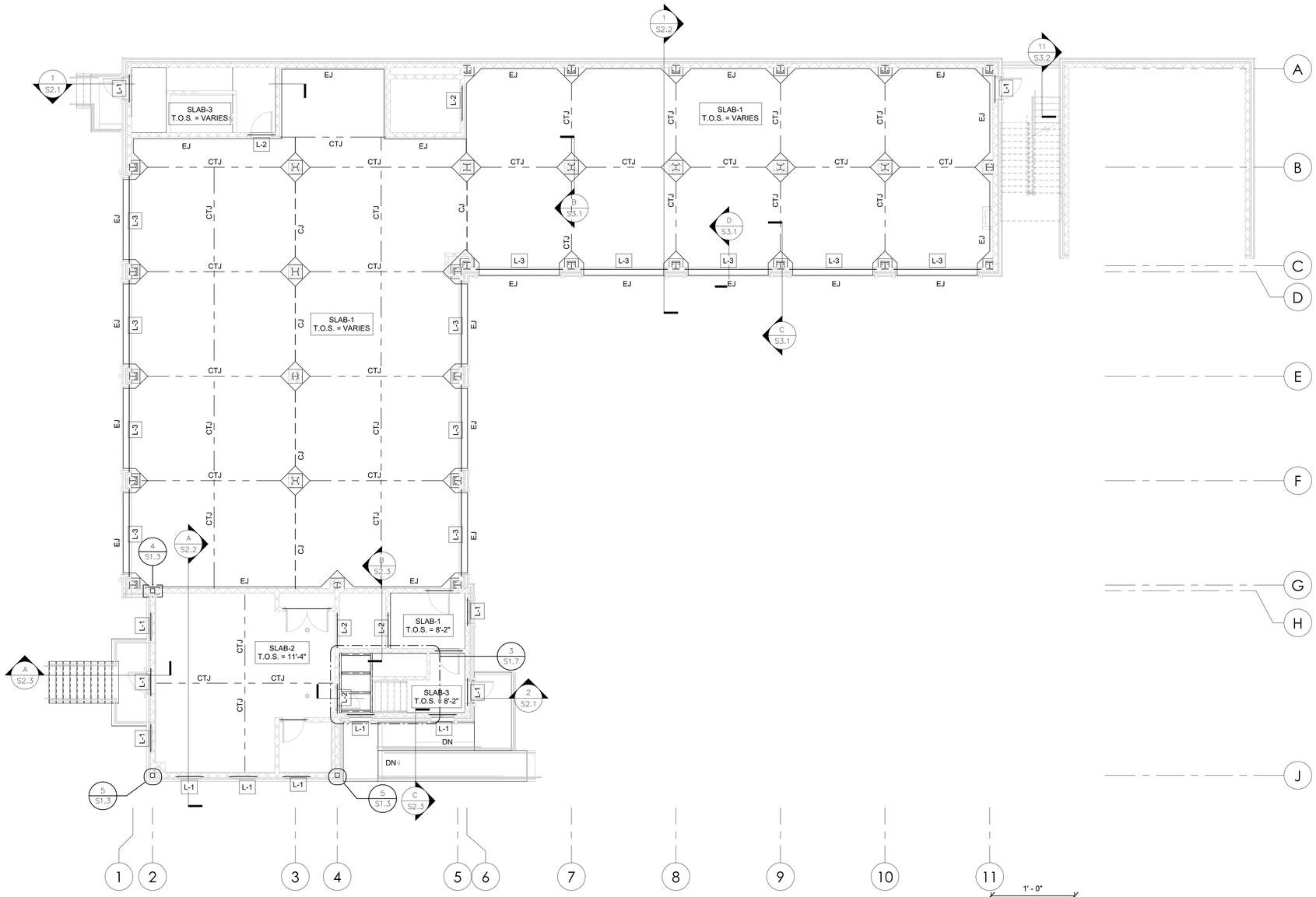
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FOUNDATION PLAN

NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING
MARGATE CITY — ATLANTIC COUNTY — NEW JERSEY

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MLM	ZB	JDT	As indicated
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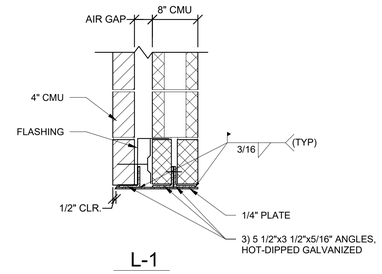


TOP OF SLAB AND LINTEL PLAN

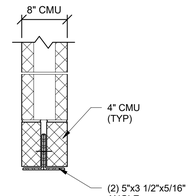
SCALE: 1/8" = 1'-0"

NOTE:

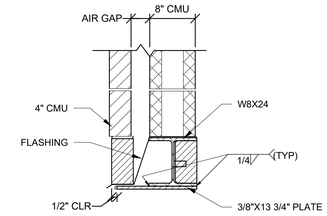
1. CONTRACTOR SHALL SUBMIT A JOINT LAYOUT PLAN FOR ENGINEERS APPROVAL PRIOR TO INSTALLMENT OF CONCRETE FLOOR.
2. CONTRACTOR SHALL VERIFY WALL COMPOSITION PRIOR TO FABRICATION OF LINTELS. PROPOSED LINTELS MAY HAVE TO BE MODIFIED.
3. SEE ARCHITECTURAL PLANS FOR ALL SLAB SLOPES AND DEPRESSIONS.
4. CONTRACTOR SHALL TURN DOWN SLAB FROM 12 INCHES INTO 18 INCHES AT FLOOD DOOR SUPPORT LOCATIONS TO ACCOMIDATE MID POS. FINAL DETAIL TO BE COORDINATED WITH THE MANUFACTURER AND DETAIL TO BE SUBMITTED TO ENGINEER FOR FINAL APPROVAL.



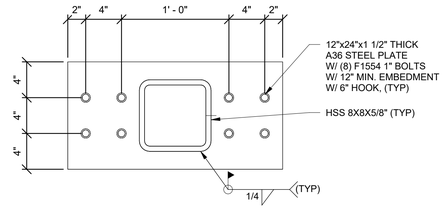
L-1



L-2

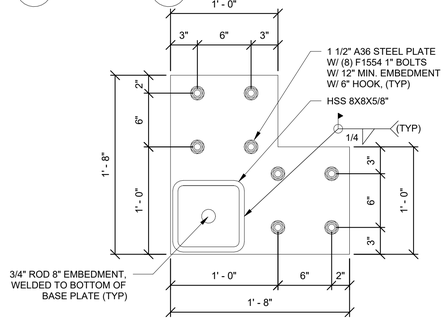


L-3



BP-3

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



BP-4

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

LEGEND

EXPANSION JOINT = EJ

CONTROL JOINT = CTJ

CONSTRUCTION = CJ

SLAB SCHEDULE

SLAB-1	SLAB-2	SLAB-3
12" THICK W/ #6@12" O.C. E.W. T&B ON 10 MIL VAPOR BARRIER AND 6" CRUSHED STONE	8" THICK W/ #6@12" O.C. E.W. T&B ON 10 MIL VAPOR BARRIER AND 6" CRUSHED STONE	12" THICK W/ #5@12" O.C. E.W. TOP AND #5@6" O.C. E.W. BOTTOM ON 10 MIL VAPOR BARRIER AND 6" CRUSHED STONE

100% CD DEVELOPMENT
NOT FOR CONSTRUCTION
03/13/2025

RVE 1901
REMINGTON & VERNICK **ENGINEERS**
2059 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS: WWW.RVE.COM
Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

DATE

JACQUELINE D. TROVATO
NJ PROFESSIONAL ENGINEER LIC. No. 51944

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No.	REVISION	DATE	BY	CHK

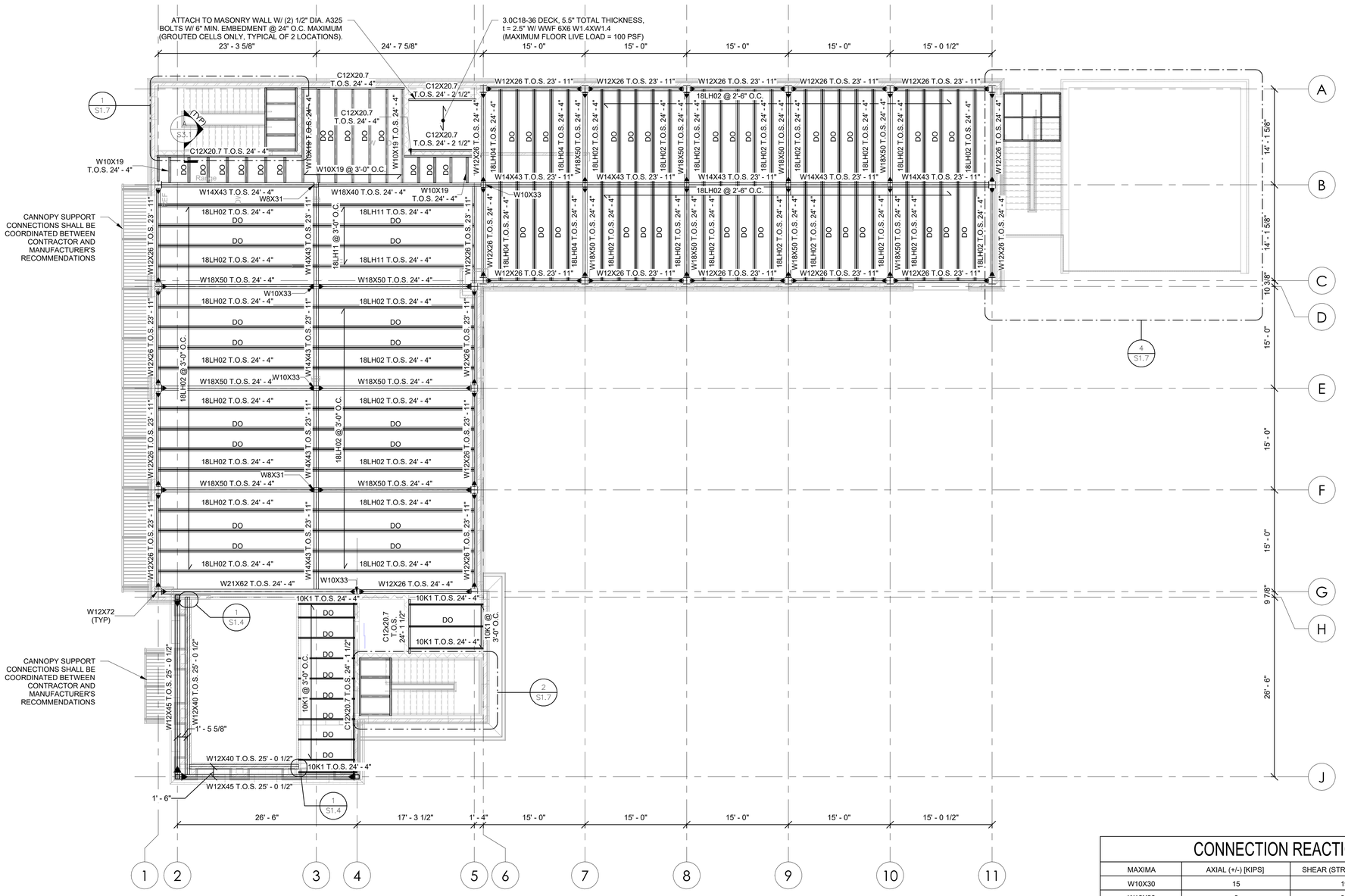
GROUND FLOOR AND FIRST FLOOR TOP OF SLAB AND LINTEL PLAN

NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING

MARGATE CITY — ATLANTIC COUNTY — NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
MLM	ZB	JDT	As indicated
DATE: 12.01.2024		SHEET No.: S1.3	
JOB No.: 0116U200			

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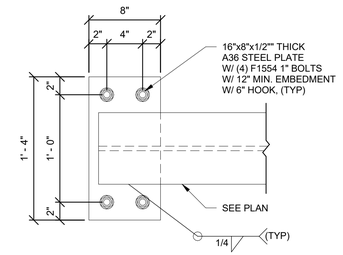


A S1.4 SECOND FLOOR STEEL FRAMING PLAN
SCALE: 1/8" = 1'-0"

FLOOR DECK D-1:

1.5C20 DECK 4" TOTAL THICKNESS, t=2.50" W/ WWF 6x6-W1.4xW1.4 U.N.O.

▲ - DENOTES MOMENT CONNECTION



1 S1.4 BEARING PLATE
SCALE: 1 1/2" = 1'-0"

CONNECTION REACTIONS IN COMBINATION

MAXIMA	AXIAL (+/-) [KIPS]	SHEAR (STRONG) [KIPS]	SHEAR (WEAK) [KIPS]	MOMENT (STRONG) [KIP-FT]
W10X30	15	19	1	60
W12X26	6	30	2	120
W12X45	6	13	4	170
W18X35	6	17	0	150
W18X40	16	6	3	60
W18X50	6	20	3	170
W18X65	18	13	4	90

COLUMN SCHEDULE

COLUMN	A-6, A-7, A-8, A-9, A-10, A-11, B-1, B-11, C-6, C-7, C-8, C-9, C-10, C-11, D-1, D-5, E-1, E-5, F-1, F-5, G-1, G-5	B-3, B-7, B-8, B-9, B-10, F-3	B-6, D-3, E-3, G-4	H-2, J-2, J-4
COLUMN SIZE	W12X72	W8X31	W10X33	HSS 8X8X5/8"
BASE PLATE	BP-2	BP-1	BP-1	BP-3 / BP-4

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03/13/2025

RVE 1901
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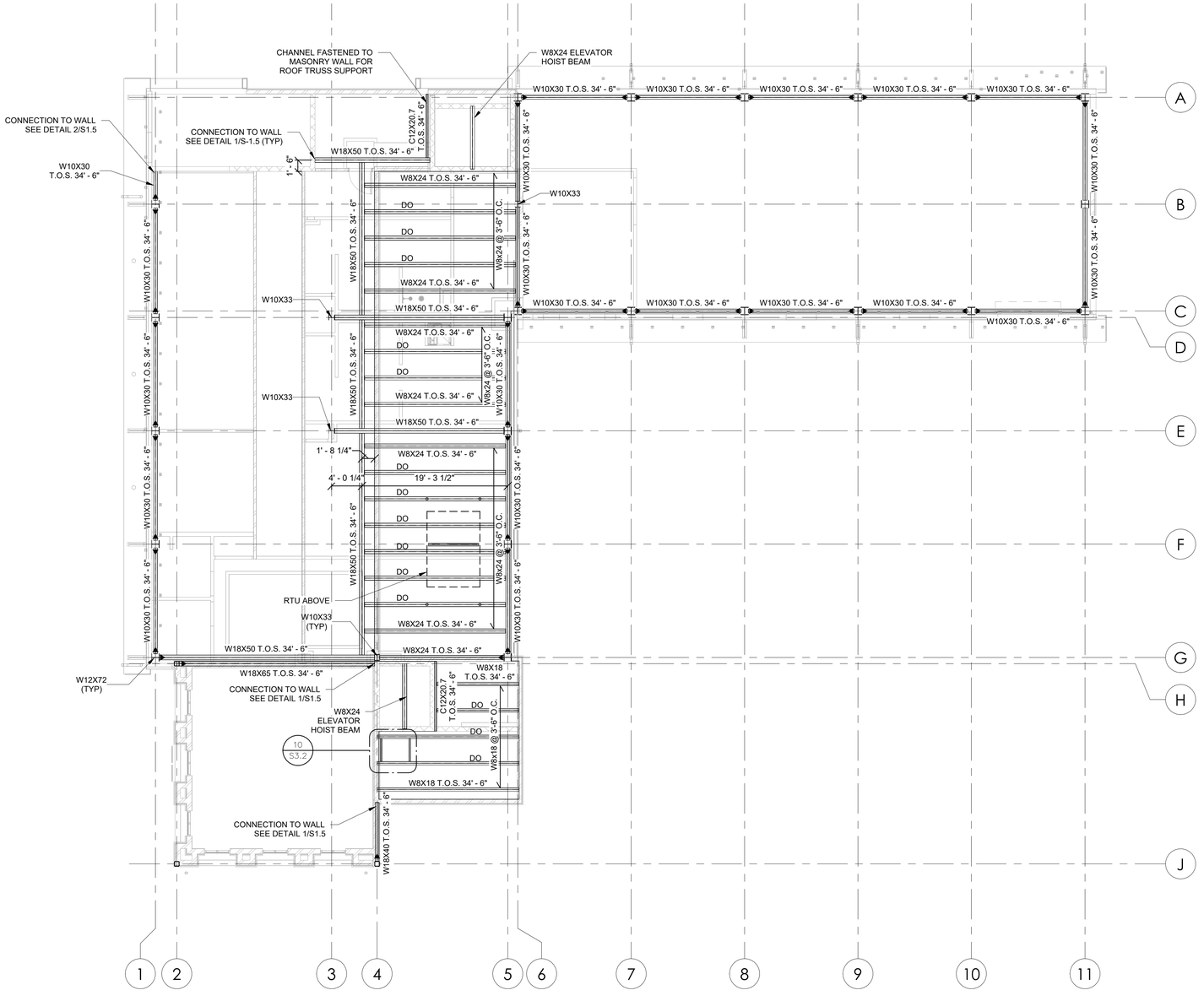
No.	REVISION	DATE	BY	CHK

SECOND FLOOR STEEL FRAMING PLAN

MARGATE CITY
NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING
MARGATE CITY
ATLANTIC COUNTY
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
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DATE: 12.01.2024		SHEET No.: S1.4	
JOB No.: 0116U200			

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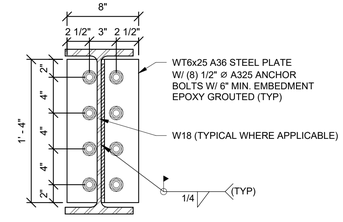
A S1.5 ROOF FRAMING (BEARING HT.)
SCALE: 1/8" = 1'-0"

ROOF DECK D-2:

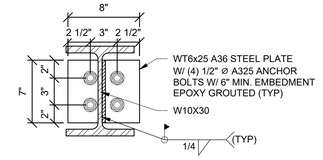
1.5B20 DECK W/ TAPERED INSULATION

▲ - DENOTES MOMENT CONNECTION

NO SOLAR LOAD FOR FLAT ROOF AREAS (TYPICAL)



1 S1.5 WALL FACE CONNECTION DETAIL A
SCALE: 1 1/2" = 1'-0"



2 S1.5 WALL FACE CONNECTION DETAIL B
SCALE: 1 1/2" = 1'-0"

COLUMN SCHEDULE

COLUMN	A-6, A-7, A-8, A-9, A-10, A-11, B-1, B-11, C-6, C-7, C-8, C-9, C-10, C-11, D-1, D-5, E-1, E-5, F-1, F-5, G-1, G-5	B-3, B-7, B-8, B-9, B-10, F-3	B-6, D-3, E-3, G-4	H-2, J-2, J-4
COLUMN SIZE	W12X72	W8X31	W10X33	HSS 8X8X5/8"
BASE PLATE	BP-2	BP-1	BP-1	BP-3 / BP-4

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03/13/2025

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DATE 12.01.2024
JACQUELINE D. TROVATO
NJ PROFESSIONAL ENGINEER LIC. No. 51944

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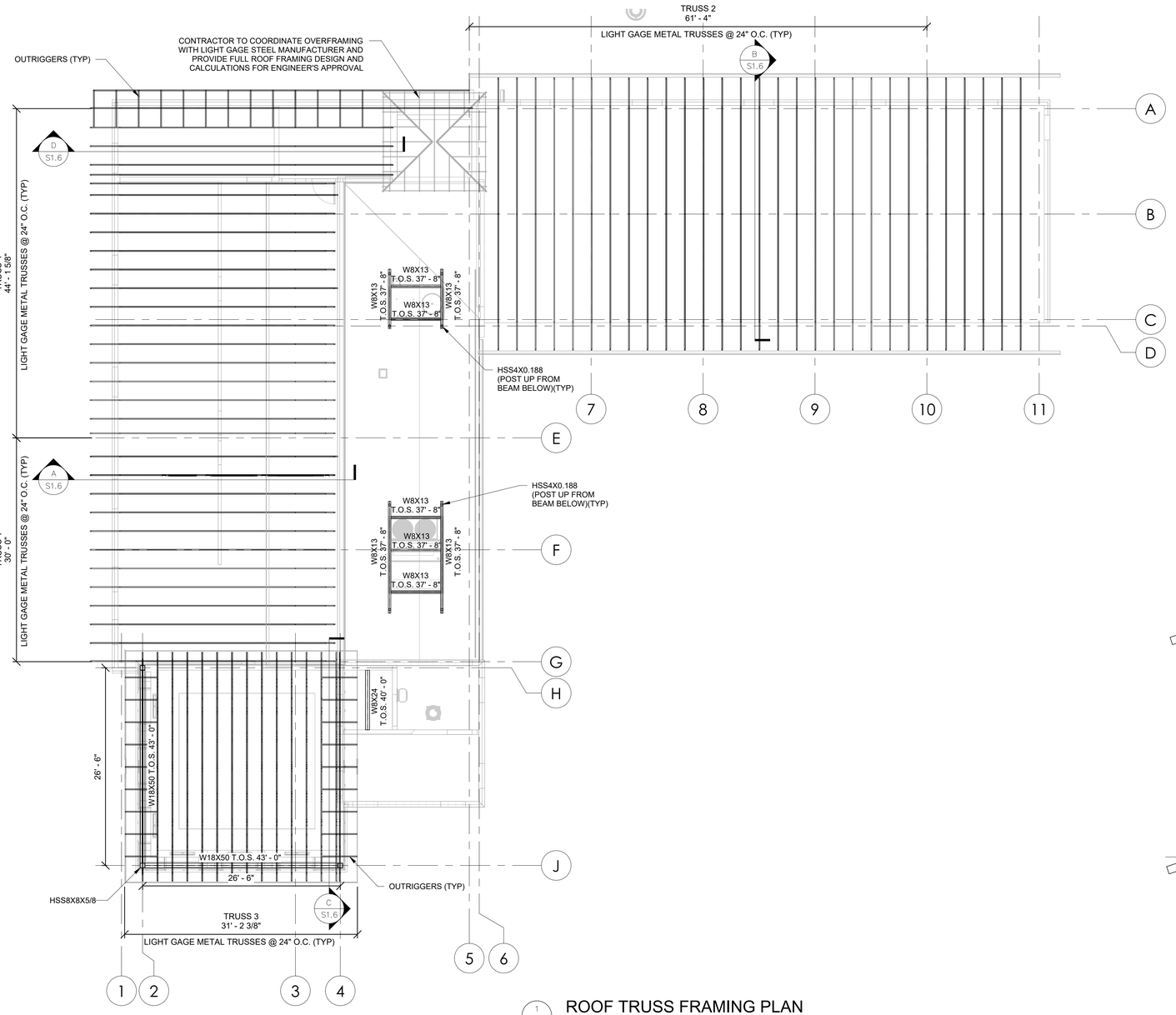
No.	REVISION	DATE	BY	CHK

ROOF BEARING STEEL FRAMING PLAN

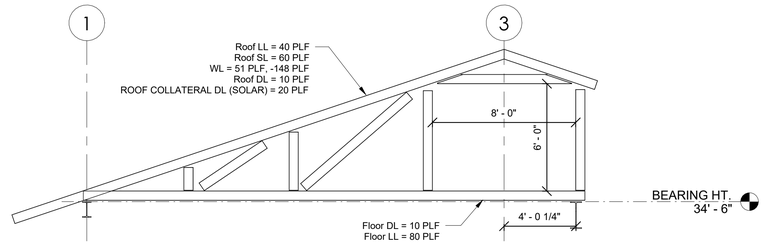
MARGATE CITY
NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
MARGATE CITY
NEW JERSEY

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DATE: 12.01.2024		SHEET No.: S1.5	
JOB No.: 0116U200			

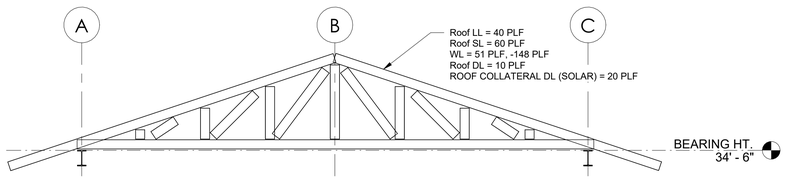
Autodesk Docs://Margate Public Works Building/0116U200_Structural_S25.rvt



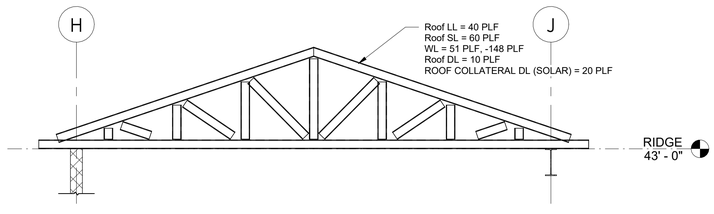
1 S1.6 **ROOF TRUSS FRAMING PLAN**
SCALE: 1/8" = 1'-0"



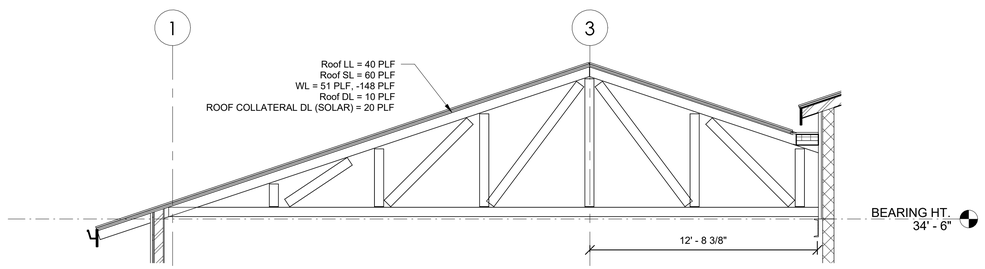
A S1.6 **TRUSS SECTION 1**
SCALE: 1/4" = 1'-0"



B S1.6 **TRUSS SECTION 2**
SCALE: 1/4" = 1'-0"



C S1.6 **TRUSS SECTION 3**
SCALE: 1/4" = 1'-0"



D S1.6 **TRUSS SECTION 4**
SCALE: 1/4" = 1'-0"

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DATE 12/20/24
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NJ PROFESSIONAL ENGINEER LIC. No. 51944

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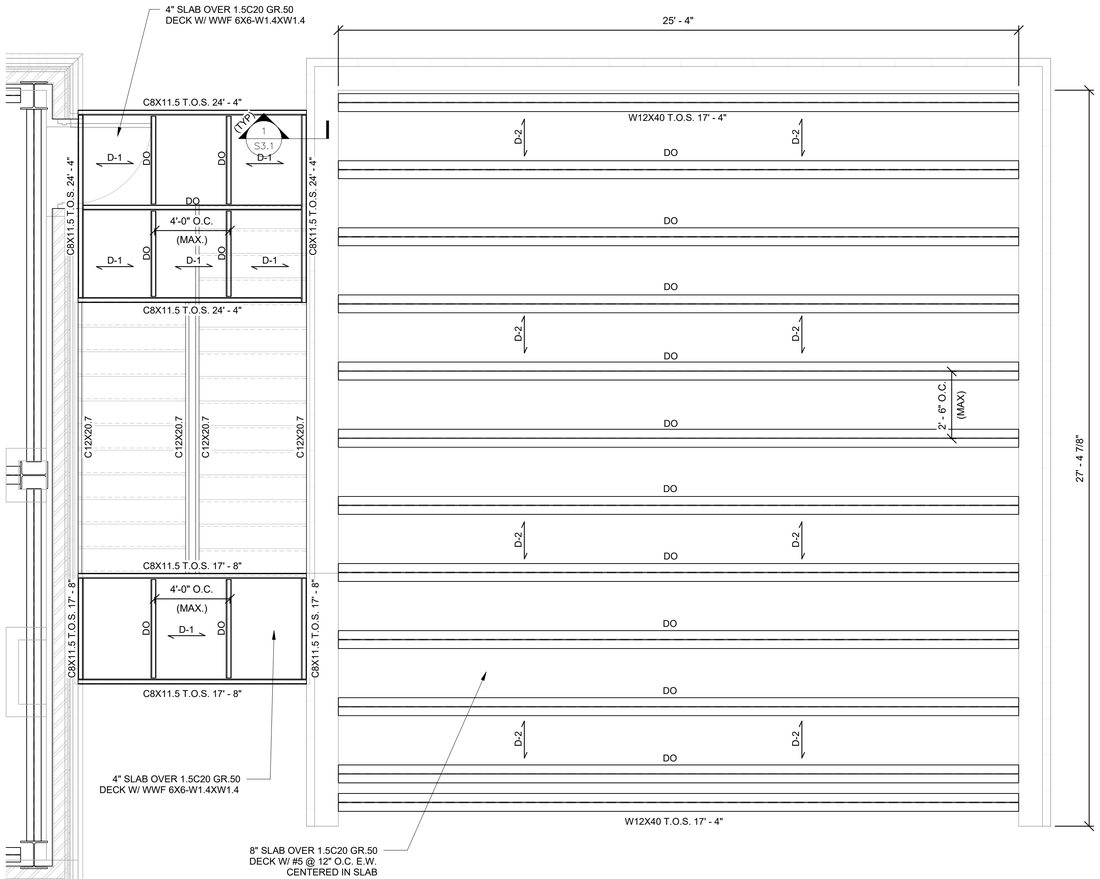
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ROOF TRUSS FRAMING PLAN

MARGATE CITY
NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING
MARGATE CITY ATLANTIC COUNTY NEW JERSEY

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JOB No.: 0116U200			

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4 S1.7 GENERATOR STEEL FRAMING PLAN

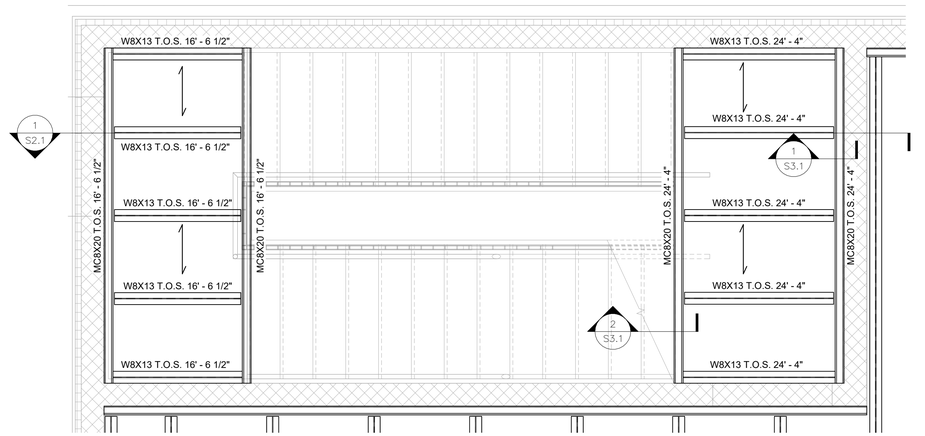
SCALE: 3/8" = 1'-0"

FLOOR DECK D-1:

1.5C20 DECK 4" TOTAL THICKNESS,
t=2.50" W/ WWF 6x6-W1.4xW1.4

FLOOR DECK D-2:

1.5C20 DECK 8" TOTAL THICKNESS,
t=6.50" W/ #5 @ 12" O.C. (TYP)

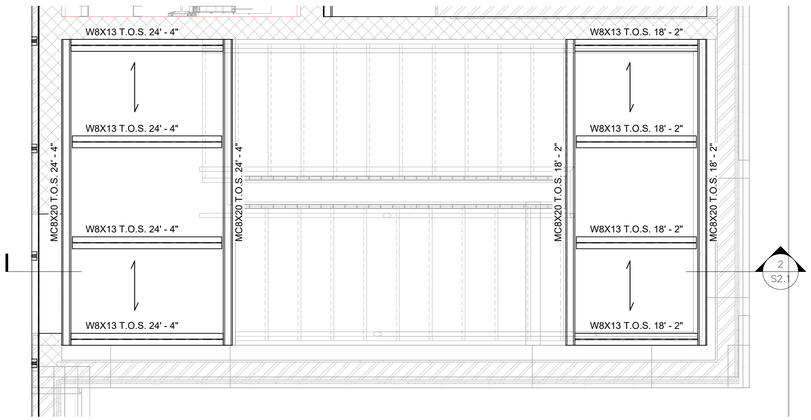


1 S1.7 GARAGE STAIRWELL STEEL FRAMING PLAN

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

FLOOR DECK D-1:

1.5C20 DECK 4" TOTAL THICKNESS,
t=2.50" W/ WWF 6x6-W1.4xW1.4

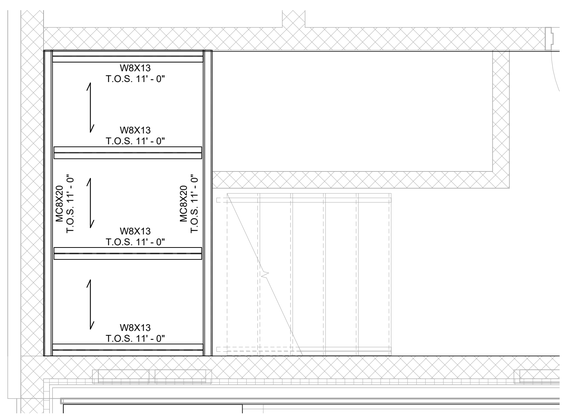


2 S1.7 LOBBY STAIRWELL STEEL FRAMING PLAN

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

FLOOR DECK D-1:

1.5C20 DECK 4" TOTAL THICKNESS,
t=2.50" W/ WWF 6x6-W1.4xW1.4



3 S1.7 FIRST FLOOR LOBBY STAIRWELL STEEL FRAMING PLAN

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

FLOOR DECK D-1:

1.5C20 DECK 4" TOTAL THICKNESS,
t=2.50" W/ WWF 6x6-W1.4xW1.4

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03/13/2025

RVE 1901
REMINGTON
& VERNICK
ENGINEERS
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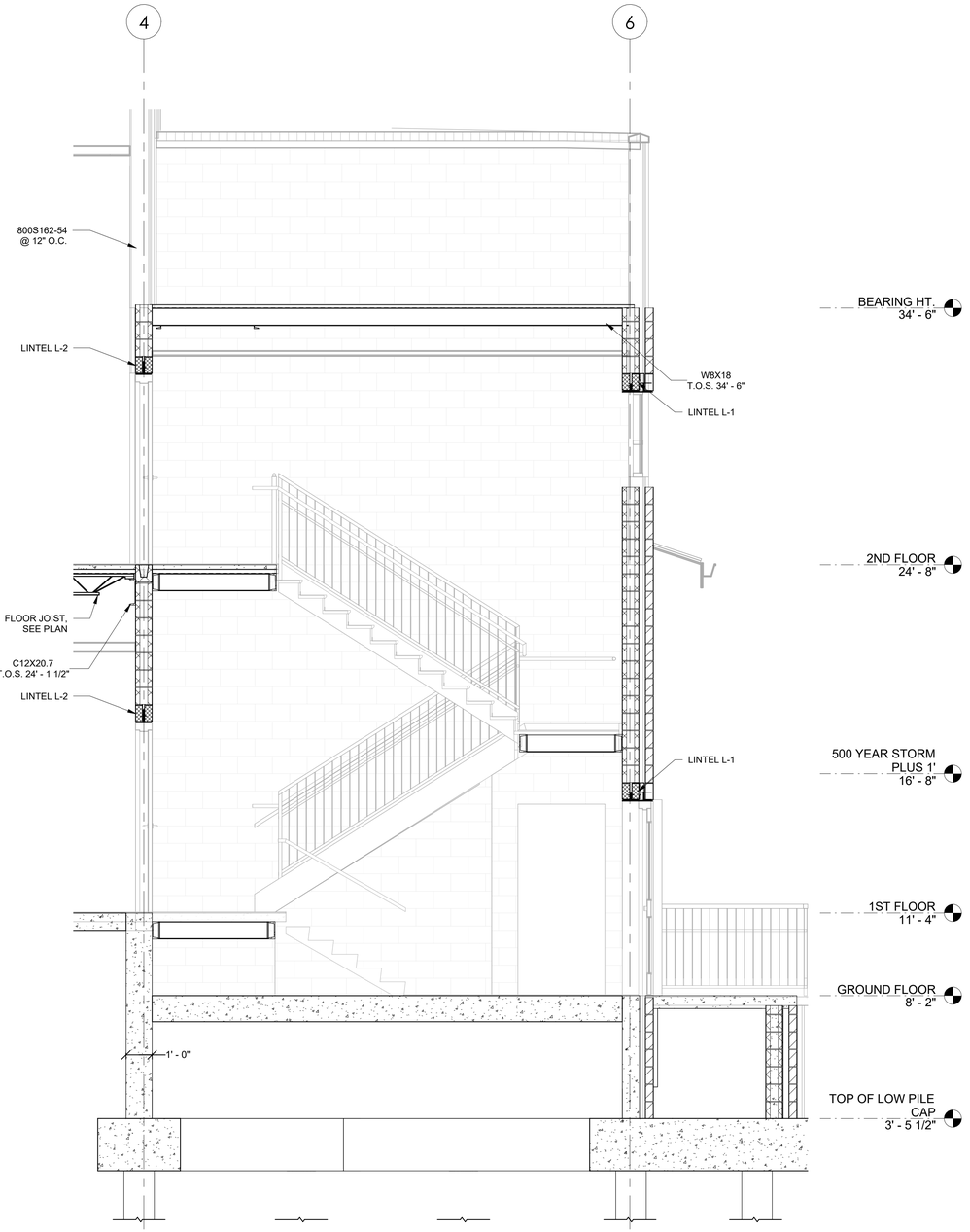
No.	REVISION	DATE	BY	CHK

STAIRWELLS AND GENERATOR STEEL FRAMING PLANS

MARGATE CITY
NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY
MARGATE CITY

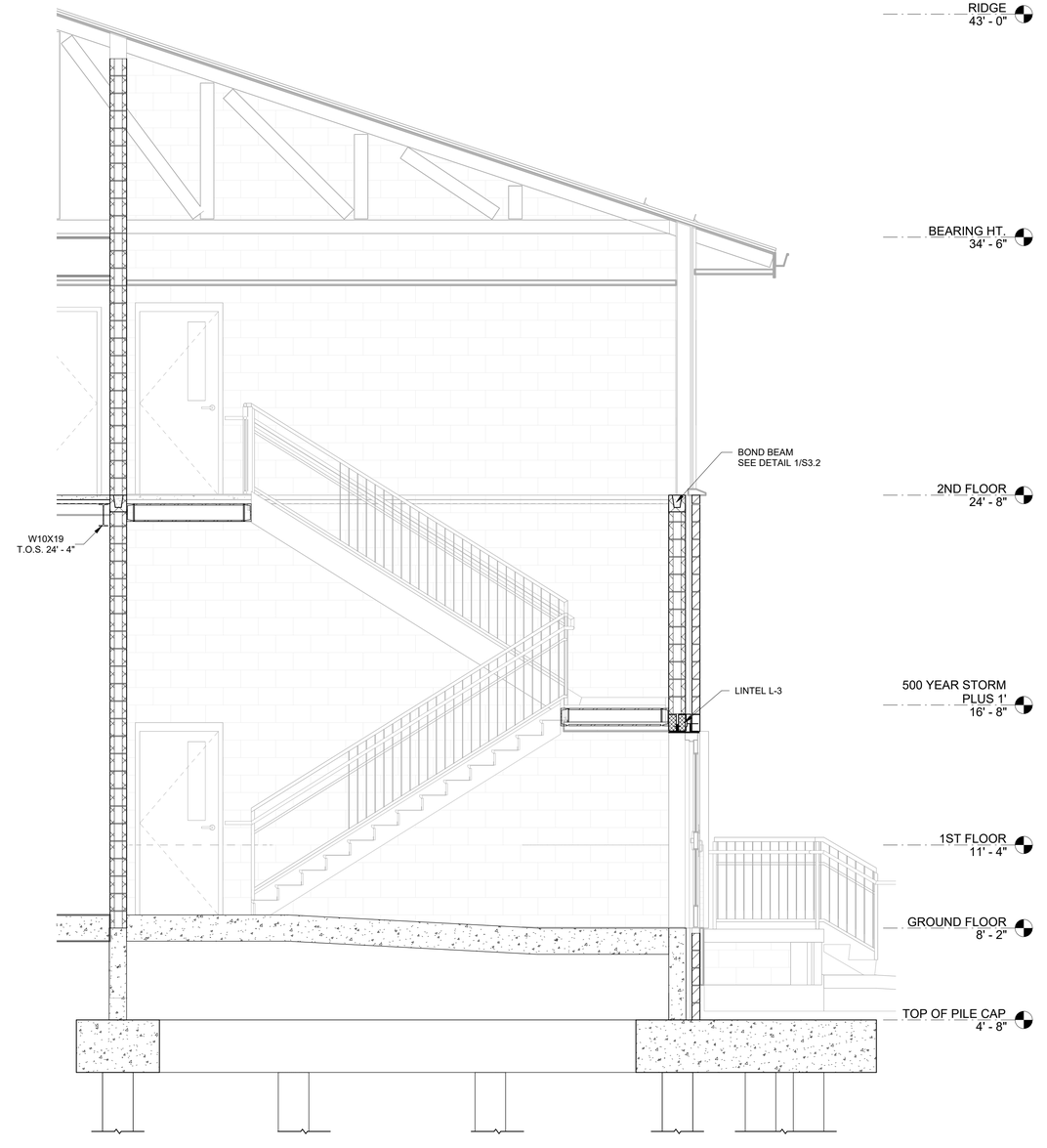
DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
MLM	ZB	JDT	As indicated
DATE: 12.01.2024		SHEET No.: S1.7	
JOB No.: 0116U200			

Architek Docs:Margate Public Works Building\116U200_Structural_R24.rvt



2 S2.1 LOBBY STAIRWELL SECTION

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



1 S2.1 GARAGE STAIRWELL SECTION

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

100% CD DEVELOPMENT
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03/13/2025

REMINGTON
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2059 SPRINGDALE ROAD
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No.	REVISION	DATE	BY	CHK

BUILDING SECTIONS

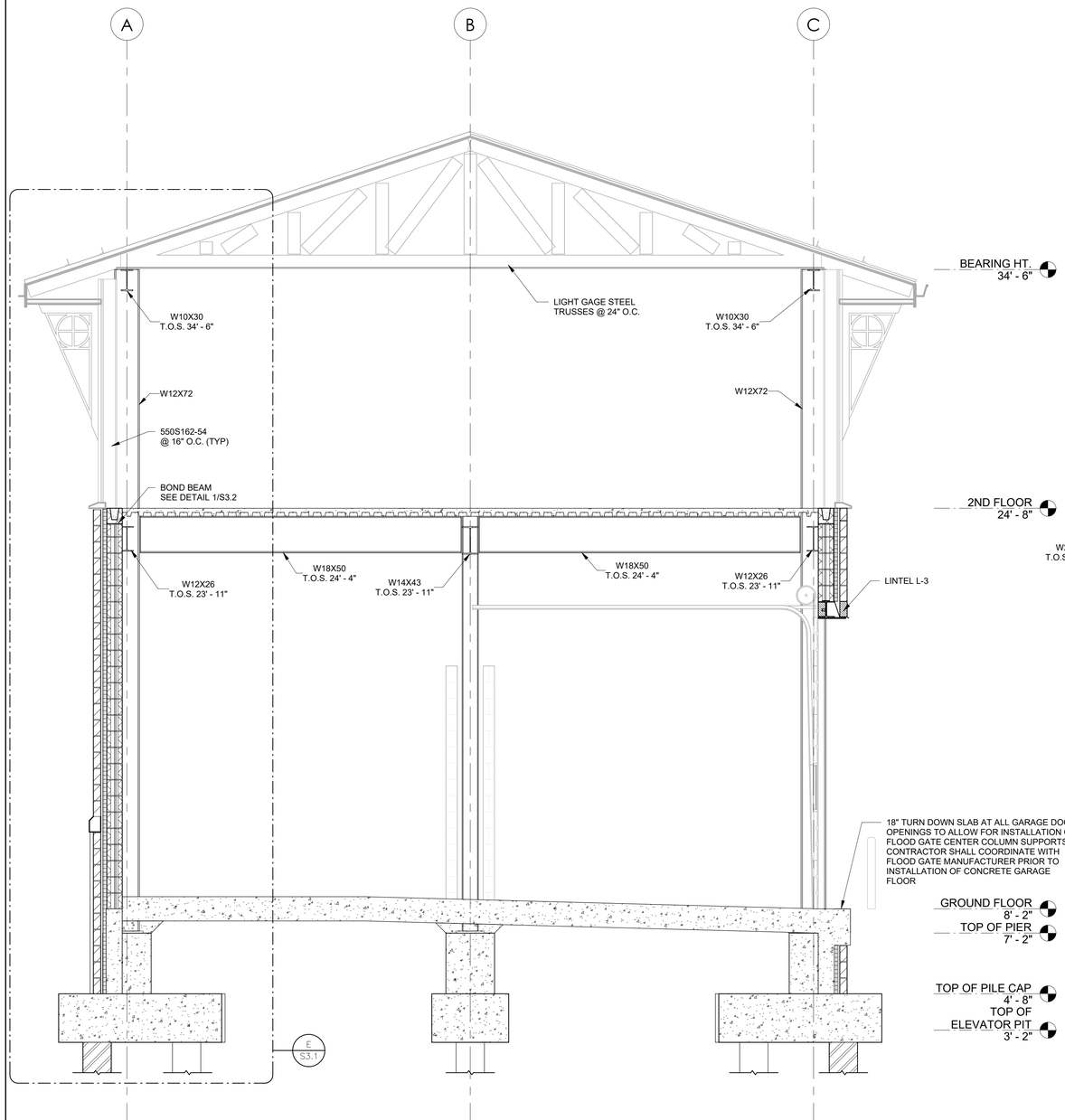
MARGATE CITY
NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY

MARGATE CITY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
MLM	ZB	JDT	3/8" = 1'-0"

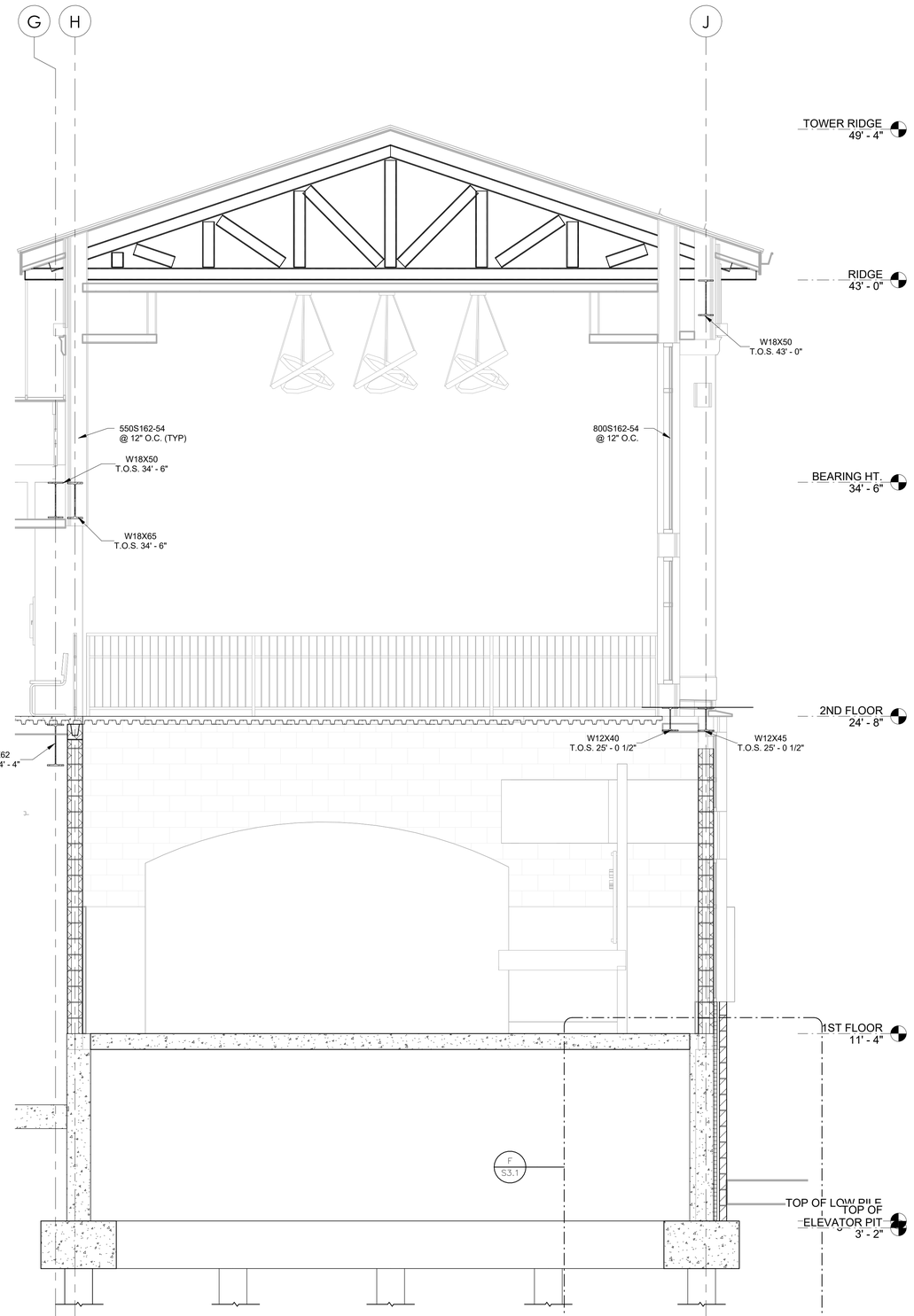
DATE: 12.01.2024
JOB No.: 0116U200
SHEET No.: S2.1

Architect Docs\Margate Public Works Building\01160200_Structural_R24.rvt



1 S2.2 GARAGE AND STORAGE WALL SECTION

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



A S2.2 LOBBY SECTION

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

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03/13/2025

REMINGTON
& VERNICK
ENGINEERS
2059 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS: WWW.RVE.COM
Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

DATE

JACQUELINE D. TROVATO
NJ PROFESSIONAL ENGINEER LIC. No. 51944

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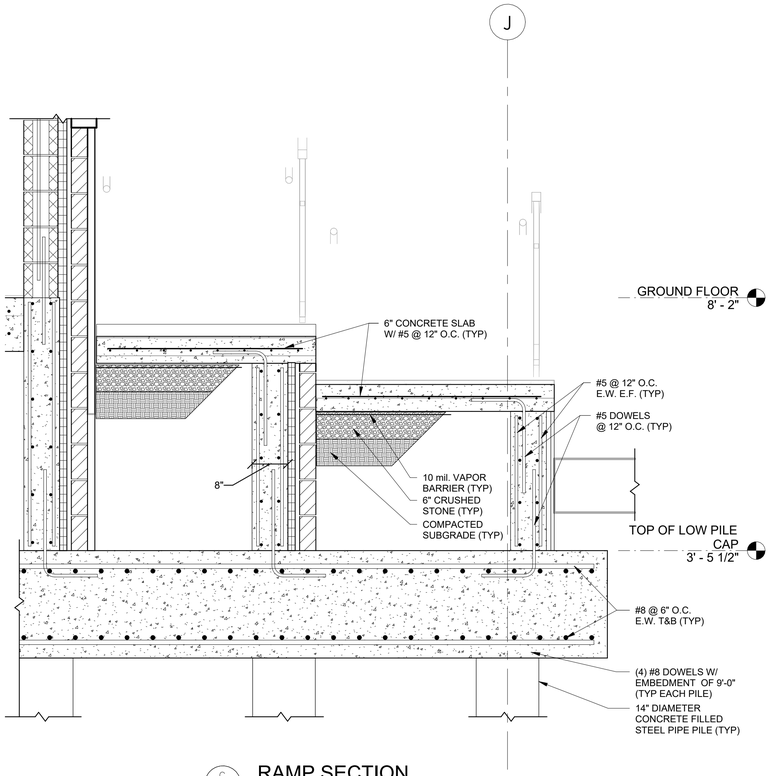
BUILDING SECTIONS

MARGATE CITY
NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY

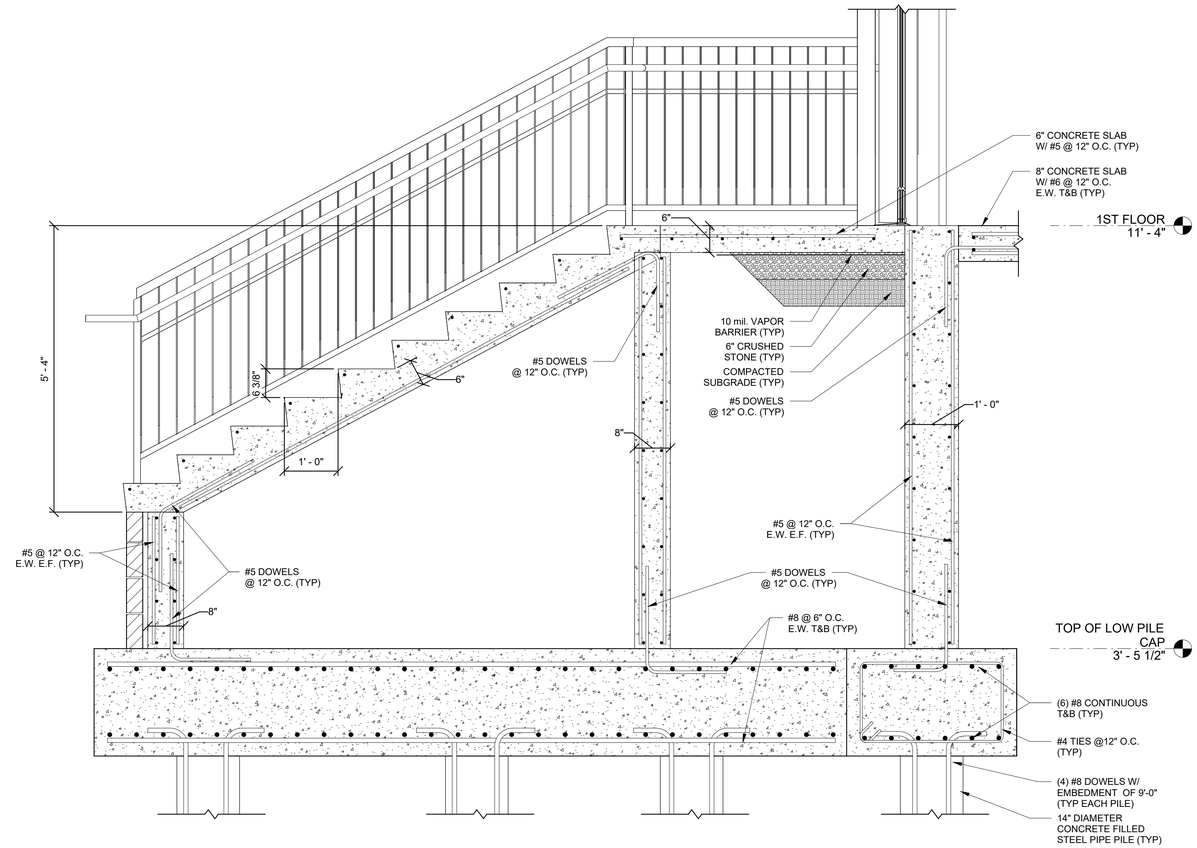
MARGATE CITY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
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DATE: 12.01.2024			SHEET No.: S2.2
JOB No.: 0116U200			

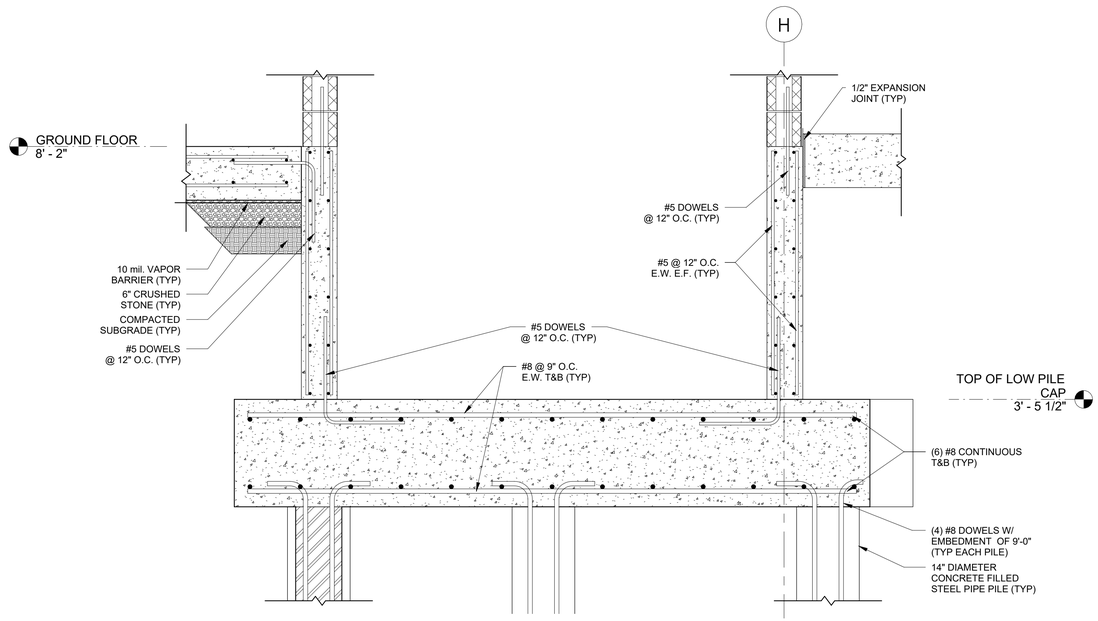
Archive Docs\Margate Public Works Building\0116U00_Structural_R24.rvt



C S2.3 **RAMP SECTION**
SCALE: 3/4" = 1'-0"



A S2.3 **LOBBY STAIRS SECTION**
SCALE: 3/4" = 1'-0"



B S2.3 **ELEVATOR PIT SECTION**
SCALE: 3/4" = 1'-0"

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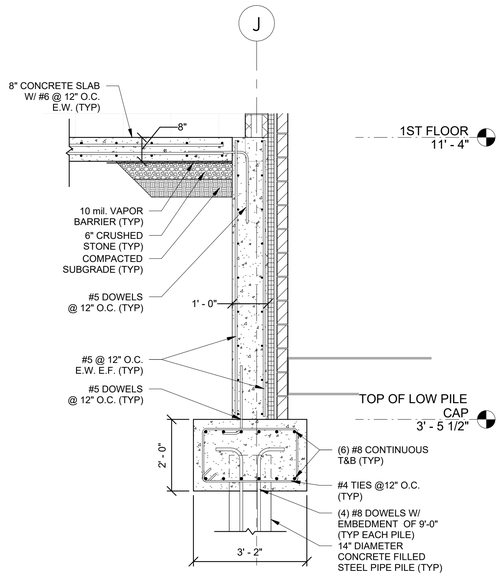
No.	REVISION	DATE	BY	CHK

ELEVATOR PIT, STAIR SECTION, AND RAMP SECTION

MARGATE CITY
NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING
MARGATE CITY ATLANTIC COUNTY NEW JERSEY

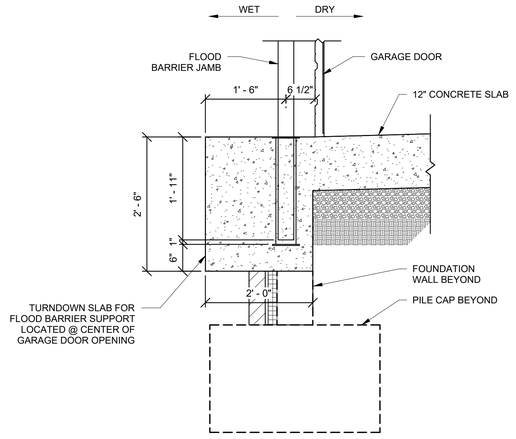
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MLM	ZB	JDT	3/4" = 1'-0"
DATE: 12.01.2024		SHEET No.: S2.3	
JOB No.: 0116U200			

Autodesk Docs://Margate Public Works Building/0116U00_Structural_R25.rvt



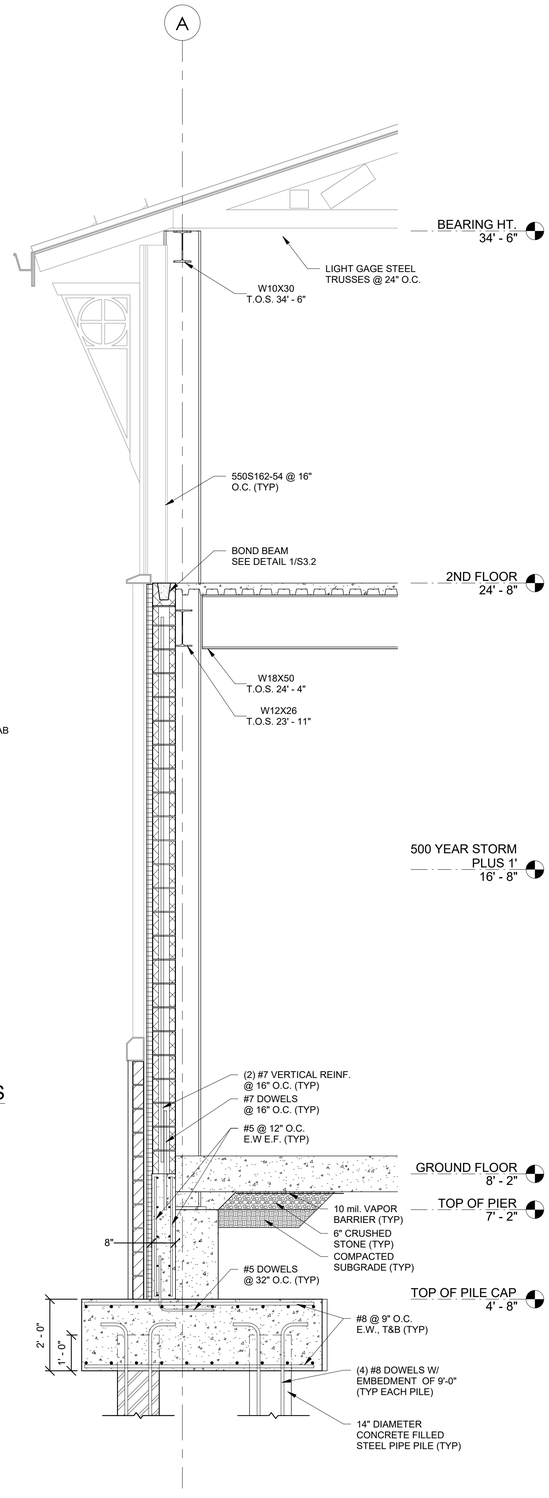
F S3.1 LOBBY WALL SECTION

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



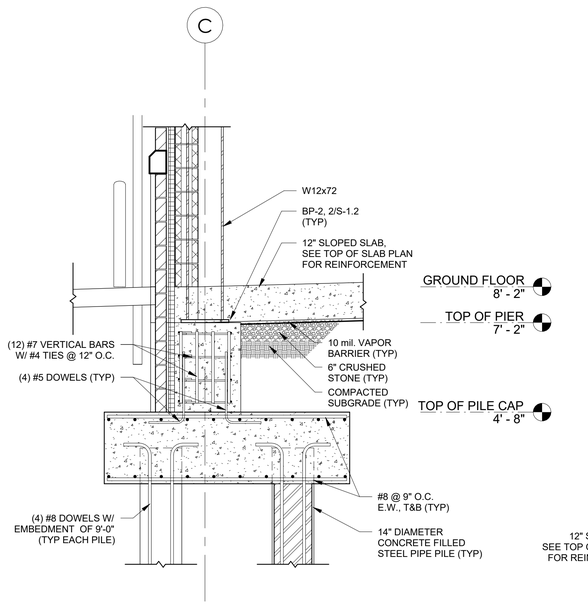
4 S3.1 PROPOSED THICKENED SLAB AT GARAGE DOORS

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



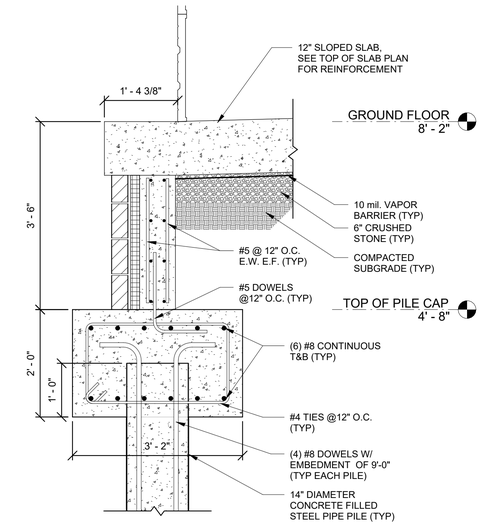
E S3.1 WALL SECTION

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



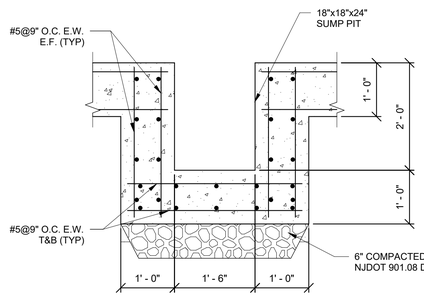
C S3.1 TRIANGULER PILE CAP FOUNDATION

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



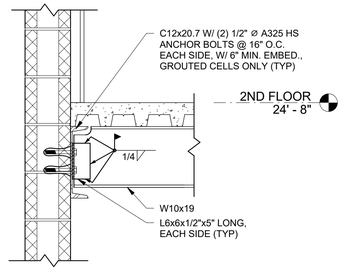
D S3.1 TYPICAL WALL FOUNDATION PLAN

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



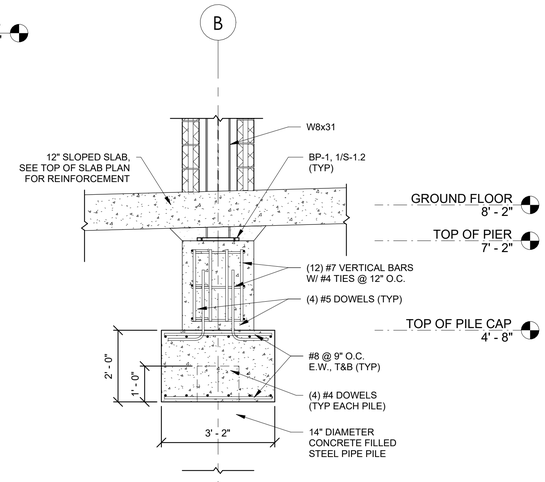
3 S3.1 ELEVATOR SUMP PIT DETAIL

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



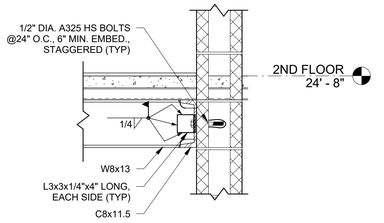
A S3.1 BEAM TO WALL CONNECTION DETAIL

SCALE: 1" = 1'-0"



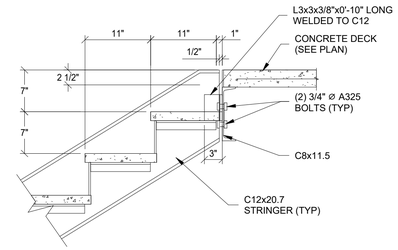
B S3.1 INTERIOR PILE CAP FOUNDATION SECTION

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



1 S3.1 STAIRWELL LANDING CONNECTION DETAIL

SCALE: 1" = 1'-0"



2 S3.1 STAIR CONNECTION DETAIL

SCALE: N.T.S.

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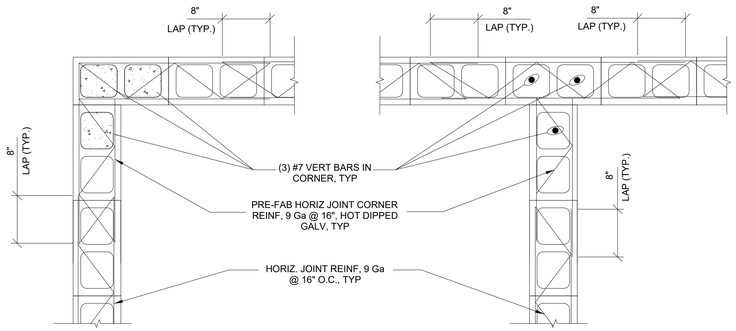
SECTIONS AND DETAILS

NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING
MARGATE CITY — ATLANTIC COUNTY — NEW JERSEY

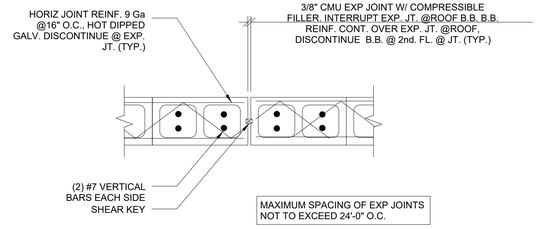
DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
MLM	ZB	JDT	As indicated

DATE: 12.01.2024
JOB No.: 0116U200
SHEET No.: S3.1

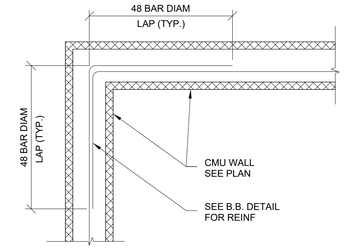
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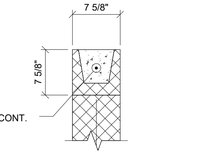
4 S3.2 TYPICAL CMU HORIZ REINF DETAIL
SC ALE: 1" = 1'-0"



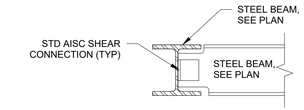
3 S3.2 TYPICAL CMU CONTRACTION JOINT
SC ALE: 1" = 1'-0"



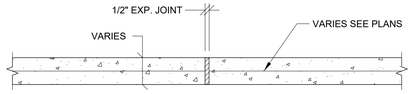
2 S3.2 BOND BEAM CORNER DETAIL
SC ALE: 1" = 1'-0"



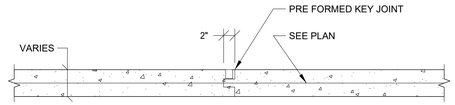
1 S3.2 BOND BEAM
SC ALE: 1" = 1'-0"



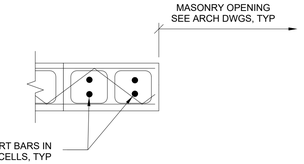
12 S3.2 BEAM TO BEAM CONNECTION DETAIL
SC ALE: 1" = 1'-0"



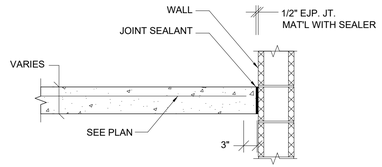
8 S3.2 SLAB EXPANSION JOINT
SC ALE: 3/4" = 1'-0"



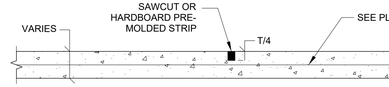
6 S3.2 SLAB CONSTRUCTION JOINT
SC ALE: 3/4" = 1'-0"



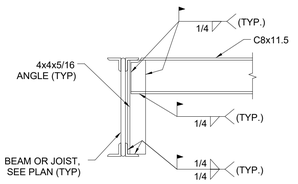
5 S3.2 TYPICAL CMU REINF @ OPENING
SC ALE: 1" = 1'-0"



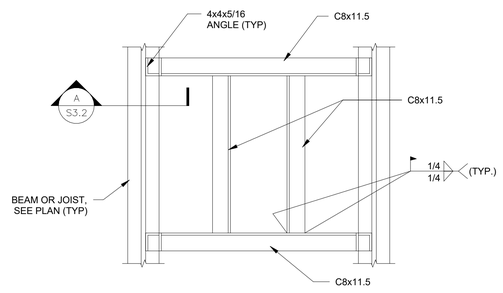
9 S3.2 SLAB EXPANSION JOINT AT WALL
SC ALE: 3/4" = 1'-0"



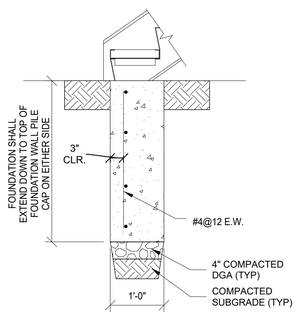
7 S3.2 SLAB CONTROL JOINT
SC ALE: 3/4" = 1'-0"



A S3.2 ROOF PENETRATION SECTION
SC ALE: 3/4" = 1'-0"



10 S3.2 ROOF PENETRATION DETAIL
SC ALE: 3/4" = 1'-0"



11 S3.2 BOTTOM OF STAIR FOUNDATION
SC ALE: 3/4" = 1'-0"

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REMINGTON & VERNICK ENGINEERS
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No.	REVISION	DATE	BY	CHK

SECTIONS AND DETAILS

MARGATE CITY
NEW CONSTRUCTION
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY
MARGATE CITY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
MLM	ZB	JDT	As indicated
DATE: 12.01.2024			SHEET No.: S3.2
JOB No.: 0116U200			

Architect Docs:Margate Public Works Building\01\0100_Structural_R24.rvt

GENERAL NOTES

(ALL GENERAL NOTES, SYMBOLS & ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT)

1. EXAMINE JOB SITE AND VERIFY ALL SITE CONDITIONS PRIOR TO SIGNING CONTRACT. BRING ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
2. THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES UNLESS OTHERWISE INDICATED.
3. THE DRAWINGS ARE DIAGRAMMATIC. COORDINATE IN THE FIELD, WITH THE ARCHITECT AND WITH ALL TRADES, THE EXACT LOCATION OF EQUIPMENT, FIXTURES, VALVES, THERMOSTATS, ETC. AND ROUTING OF PIPING, DUCTWORK, CONDUIT, ETC.
4. PERFORM WORK IN ACCORDANCE WITH RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES HAVING JURISDICTION AND BE RESPONSIBLE FOR COMPLIANCE THEREWITH.
5. OBTAIN ALL NECESSARY APPROVALS, PERMITS AND INSPECTIONS. PAY ALL ASSOCIATED FEES.
6. GUARANTEE ALL SYSTEMS AND WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. GUARANTEE REFRIGERATION COMPRESSORS FOR FIVE (5) YEARS.
7. BEFORE STARTING FABRICATION/ WORK SUBMIT TO ARCHITECT/ENGINEER FOR APPROVAL SIX (6) COMPLETE SETS OF SHOP DRAWINGS AND PRODUCT DATA FROM MANUFACTURERS, SUPPLIERS, ETC.
8. ALL MATERIALS SHALL BE NEW AND OF COMMERCIAL GRADE AND BEAR THE UNDERWRITER'S LABEL WHERE APPLICABLE.
9. LOCATE ALL EXISTING UTILITIES AND MAKE SERVICEABLE CONNECTIONS TO SAME.
10. OBTAIN APPROVAL FROM THE BUILDING OWNER'S REPRESENTATIVE PRIOR TO ANY INTERRUPTION OF BUILDING SYSTEMS. COORDINATE ACCEPTABLE WORKING HOURS WITH SAME.
11. REMOVE ALL ABANDONED EQUIPMENT, FIXTURES, DUCTWORK, PIPING, CONDUIT, ETC. CAP ALL PIPING ABANDONED IN WALLS.
12. ALL CUTTING AND PATCHING IS BY RESPECTIVE CONTRACTORS. CORE DRILL OR SAW CUT ALL MASONRY AND RESTORE ALL SURFACES TO ORIGINAL CONDITION. PAINTING AND FINISHING ARE BY THE GENERAL CONTRACTOR.
13. PIPING AND SPECIALTIES
    a. ALL PIPING SHALL CONFORM TO THE REQUIREMENTS OF THE ANSI SAFETY CODE AND BE FREE FROM ALL DEFECTS.
    b. PROVIDE SLEEVES FOR PIPING THROUGH MASONRY, FIRE RATED WALLS AND SMOKE PARTITIONS. SLEEVES SHALL BE 22 GAUGE OR HEAVIER STEEL, SCHEDULE 40 IN BEARING WALLS. SIZE SLEEVES TO ACCOMMODATE PIPE INSULATION WHERE APPLICABLE. PROVIDE UL LISTINGS FOR SLEEVE PACKING.
    c. PROVIDE PIPE HANGERS TO SUPPORT PIPING FROM BUILDING STRUCTURE TO MAINTAIN REQUIRED SLOPE, PROVIDE FOR EXPANSION AND CONTRACTION, ISOLATE VIBRATION AND RELIEVE EQUIPMENT AND SPECIALTIES FROM STRAIN. SPACE HANGERS ACCORDING TO APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
    d. IDENTIFY ALL PIPING WITH SEMIRIGID OR ADHESIVE PLASTIC INDICATION MARKERS, EXCEPT WITHIN INACCESSIBLE CHASES. MARKERS SHALL SHOW DIRECTION OF FLOW. MARKERS SHALL BE LOCATED NEXT TO EACH VALVE, AT EACH BRANCH, ON BOTH SIDES OF PIPE PASSAGE THROUGH WALLS AND ON ALL HORIZONTAL PIPING AT 20' MAXIMUM INTERVALS.
    e. ROUTE ALL PIPING CONCEALED IN WALLS, ABOVE CEILING AND BELOW FLOOR UNLESS OTHERWISE NOTED. RUN PARALLEL WITH BUILDING LINES.
    f. PROVIDE DRAIN VALVES & PLUGS AT ALL LOW POINTS SUCH THAT PIPING SYSTEMS CAN BE DRAINED. PROVIDE MANUAL AIR VENT VALVES AT ALL HIGH POINTS IN THE SYSTEM.
    g. PROVIDE BACKFLOW PREVENTION DEVICES AT ALL EQUIPMENT AS REQUIRED BY CODE. UNLESS STATED OTHERWISE PROVIDE CHECK VALVE AND SHUT-OFF VALVE BOTH RATED FOR 250°F DOWN STREAM OF BACKFLOW PREVENTER ON MAKE UP WATER LINE FOR HYDRONIC HEATING HOT WATER SYSTEMS.
    h. PROVIDE DIELECTRIC UNIONS AT ALL JUNCTIONS OF DISSIMILAR METALS.
    i. ALL SHUTOFF VALVES, CONTROL VALVES, ETC. ARE FULL LINE SIZE UNLESS OTHERWISE NOTED.
    j. INSTALL PIPING ON WARM SIDE OF BUILDING INSULATION. DO NOT INSTALL PIPING WHERE SUBJECT TO FREEZING.
    k. ALL PIPING INSULATION SHALL BE CONTINUOUS THROUGH WALLS AND CEILING OPENINGS, SLEEVES AND PIPE HANGERS.
    l. TEST ALL PIPING IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS, AND INSPECTOR'S REQUIREMENTS PRIOR TO INSULATION OR ENCLOSING.
    m. BALANCE ALL HYDRONIC DEVICES FOR FLOW RATES NOTED ON DRAWINGS. PROVIDE BALANCING REPORT TO ARCHITECT/ENGINEER.
    n. UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) ONE AND A HALF (1-1/2") INCH THICK LAYER OF PREFORMED MINERAL FIBER PIPE INSULATION WITH PREFORMED MINERAL FIBER FITTINGS ON ALL DOMESTIC HOT AND COLD WATER PIPING, HYDRONIC HEATING AND CHILLED WATER SUPPLY AND RETURN PIPING, REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING. INCLUDE A FIELD APPLIED FOIL AND PVC JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY.
    o. UNLESS STATED OTHERWISE ALL UNDERGROUND PIPING SHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT (PE) FOR CORROSION RESISTANCE.
    p. UNLESS STATED OTHERWISE ALL FUEL GAS VENT PIPING TO BE SA-53GrB CARBON STEEL. ALL VENT PIPING TO BE PRIMED AND FINISH PAINTED IN A COLOR ACCEPTABLE TO THE OWNER.
14. DUCTWORK AND SPECIALTIES
    a. ALL DUCTWORK TO BE IN ACCORDANCE WITH S.M.A.C.N.A. "H.V.A.C. DUCT CONSTRUCTION STANDARDS", LATEST EDITION. PRESSURE CLASS "B".
    b. ALL DUCTWORK TO BE CONSTRUCTED OF GALVANIZED SHEETMETAL.
    c. PROVIDE 45 DEGREE COLLARS TO ALL BRANCH CONNECTIONS. PROVIDE TURNING VANES AT ALL ELBOWS 12"x6" OR LARGER. PROVIDE STANDARD RADIUS ELBOWS AT ALL ELBOWS SMALLER THAN 12"x6".
    d. PROVIDE ALL VOLUME DAMPERS REQUIRED TO BALANCE THE SYSTEMS. INSTALL VOLUME DAMPERS AT BRANCH TAKE-OFFS FROM TRUNK.
    e. PROVIDE CURTAIN TYPE FIRE DAMPERS WHEREVER DUCT PENETRATES FIRE RATED PARTITIONS. UNITS SHALL PROVIDE NOT LESS THAN 90% FREE AREA. PROVIDE ACCESS DOORS AT ALL FIRE DAMPERS.
    f. TEST DUCT SYSTEMS FOR AIR TIGHTNESS AND ABSENCE OF AUDIBLE LEAKS BEFORE ENCLOSURE.
    g. BALANCE ALL AIR DEVICES FOR AIR QUANTITIES NOTED ON DRAWINGS. PROVIDE BALANCING REPORT TO ARCHITECT/ENGINEER.
    h. FLEXIBLE DUCTS: ALL FLEXIBLE DUCTS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE.
    i. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
    j. PROVIDE FIRE DAMPERS IN THE DUCTWORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND THE CONTRACT DOCUMENTS.
    k. UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) TWO AND ONE HALF (2-1/2 ") INCH THICK LAYER OF MINERAL FIBER BLANKET INSULATION ON ALL NEW INDOOR ROUND AND RECTANGULAR SUPPLY AIR, EXHAUST AIR, RETURN AIR AND OUTDOOR AIR DUCTWORK. INCLUDE A FIELD APPLIED PAPER AND FOIL JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY.
    l. UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) TWO (2") INCH THICK LAYER OF MINERAL FIBER BOARD INSULATION ON ALL NEW OUTDOOR ROUND AND RECTANGULAR SUPPLY AIR, EXHAUST AIR, RETURN AIR AND OUTDOOR AIR DUCTWORK. INCLUDE A WEATHERPROOF FIELD APPLIED 22 GAUGE ALUMINUM JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY. COORDINATE FINISH COLOR OF EXTERIOR JACKET WITH THE OWNER.
    m. UNLESS OTHERWISE NOTED ALL EXPOSED SUPPLY, RETURN AND EXHAUST AIR DUCTWORK SHALL BE PRIMED AND PAINTED. COLOR TO BE DETERMINED BY THE ENGINEER/ OWNER.
15. EQUIPMENT
    a. VERIFY ALL ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
    b. ALL MECHANICAL EQUIPMENT AND APPLIANCE INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE, AS WELL AS WITH MANUFACTURER'S RECOMMENDATIONS,
    c. ALL ELECTRICAL POWER WIRING IS BY ELECTRICAL CONTRACTOR. ALL CONTROL WIRING IS BY RESPECTIVE CONTRACTOR.
    d. PROVIDE OWNER WITH OPERATION AND MAINTENANCE MANUALS FOR INSTALLED EQUIPMENT. INCLUDE CONTRACTOR'S, SUPPLIER'S AND MANUFACTURER'S NAMES, ADDRESS AND TELEPHONE NUMBERS.
    e. SUPPLY STARTERS AND DISCONNECTS WITH EQUIPMENT.
    f. PROVIDE CONCRETE PADS FOR FLOOR MOUNTED EQUIPMENT. PADS SHALL BE A MINIMUM 4" HIGH AND SHALL EXTEND 6" BEYOND EQUIPMENT ON ALL SIDES.
    g. LABELING: ALL MECHANICAL EQUIPMENT AND APPLIANCES SHALL BEAR LABELING IN COMPLIANCE WITH THE LATEST VERSION OF THE INTERNATIONAL MECHANICAL CODE.
    h. UNLESS NOTED OTHERWISE, ALL HYDRONIC SYSTEMS BOILER/ CHILLED WATER SHALL BE PROVIDED WITH A NEW BLADDER TYPE EXPANSION TANK AS REQUIRED. TANK TO BE SIZED FOR EACH SYSTEM BASED UPON TANK MANUFACTURER'S RECOMMENDATIONS.
    i. UNLESS OTHERWISE NOTED CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL PROPYLENE GLYCOL ANTI FREEZE FOR ALL HYDRONIC HEATING AND COOLING SYSTEMS. THE CONTRACTOR SHALL SUPPLY A 35% CONCENTRATION OF PROPYLENE GLYCOL IN SOLUTION FOR CHILLED WATER COOLING SYSTEMS AND A 25% CONCENTRATION OF PROPYLENE GLYCOL IN SOLUTION FOR HOT WATER HEATING SYSTEMS. PROPYLENE GLYCOL ANTI FREEZE SHALL BE COMPATIBLE WITH ALL MATERIALS OF THE HYDRONIC SYSTEM (PIPING, VALVES, PUMPS, CHILLER, BOILER, ETC.) AS WELL AS ALL TERMINAL EQUIPMENT.
16. AUTOMATIC TEMPERATURE AND SAFETY CONTROLS
    a. PROVIDE ALL WIRING, RELAYS, CONTACTS, TRANSFORMERS, ETC. REQUIRED TO DELIVER A COMPLETE OPERABLE SYSTEM.
    b. THERMOSTATS SHALL BE 24 HOUR/7 DAY PROGRAMMABLE WITH FAN "OFF/ON/AUTO" AND SYSTEM "HEAT/COOL/AUTO/OFF" SWITCHES. VERIFY OPERATION OF ALL FUNCTIONS.
17. FIRE PROTECTION
    a. THE QUANTITY AND LOCATION OF SPRINKLERS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND INTENDED FOR SCHEMATIC PURPOSES ONLY. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING AND COMMISSIONING ALL NECESSARY SPRINKLERS, PIPE, EQUIPMENT AND APPURTENANCES NECESSARY, IN FULL ACCORDANCE WITH THE NFPA AND APPROVED BY THE ENGINEER AND ALL AUTHORITIES HAVING JURISDICTION.
    b. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE DETAILED DESIGN DRAWINGS, HYDRAULIC CALCULATIONS, PIPING, FITTINGS, SPRINKLERS, ALARM AND MONITORING DEVICES, SIGNAGE AND APPURTENANCES COMPLETE AND IN FULL ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND NFPA 13 & 14. ALL WIRING OF DEVICES SHALL BE DONE BY ELECTRICAL CONTRACTOR.
    c. ALL SPRINKLER HEADS SHALL BE LOCATED AT THE CENTER POINT OF ALL ACOUSTICAL CEILING TILES.
18. ALL EXISTING PLUMBING, HVAC AND ELECTRICAL EQUIPMENT AND MATERIALS THAT ARE EITHER EXPOSED OR CONCEALED AND THAT INTERFERE WITH ALTERED EXISTING BUILDING ARRANGEMENTS AND NEW SYSTEMS SHALL BE REMOVED, RELOCATED, REROUTED, OR ABANDONED. DRAWINGS GENERALLY INDICATE MAJOR ITEMS OF EXISTING MATERIALS AND EQUIPMENT THAT ARE AFFECTED. IT IS NOT POSSIBLE TO INDICATE ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS; HOWEVER, THEIR REMOVAL, RELOCATION, REROUTING AND ABANDONMENT SHALL ALSO BE INCLUDED IN THIS WORK.
19. EXISTING CONCEALED PLUMBING, HVAC AND ELECTRICAL EQUIPMENT AND MATERIALS THAT ARE TO REMAIN BUT BECOME EXPOSED DUE TO RENOVATION WORK, SHALL BE RELOCATED AND RECONNECTED AS PART OF THIS WORK.
20. PLUMBING DRAWINGS ARE DIAGRAMMATIC. ALL DEVICES & FITTINGS MAY NOT BE SHOWN ON THE DRAWINGS FOR CLARITY. PROVIDE CLEANOUTS NEAR THE BASE OF ALL VERTICAL WASTE & STORM WATER STACKS IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL STANDARD PLUMBING CODE.
21. GUARDS SHALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE AND ROOF HATCH OPENINGS ARE LOCATED WITHIN 12 FEET OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THEN 30 INCHES ABOVE THE FLOOR, ROOF OR GRADE BELOW. THE GUARD SHALL EXTEND NOT LESS THEN 30 INCHES BEYOND EACH END OF SUCH APPLIANCES, EQUIPMENT, FANS, COMPONENTS AND ROOF HATCH OPENINGS AND THE TOP OF THE GUARD SHALL BE LOCATED NOT LESS THEN 42 INCHES ABOVE THE ELEVATED SURFACE ADJACENT TO THE GUARD. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH-DIAMETER SPHERE AND SHALL COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE.
22. PROVIDE FOR ALL MECHANICAL EQUIPMENT - FAN AND MOTOR PULLEYS, SHEAVES, BELTS AND LABOR REQUIRED TO BALANCE THE NEW AND EXISTING MECHANICAL EQUIPMENT TO THE SPECIFIED SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR FLOWS SHOWN ON THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER. THE TESTING, ADJUSTING AND BALANCING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED PULLEYS, SHEAVES AND BELTS EVEN IF THEY ARE NOT PROVIDED WITH THE EQUIPMENT BY THE MANUFACTURER.
23. UNLESS OTHERWISE NOTED CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL CONNECTION/ TRANSITION DUCTS BETWEEN NEW HVAC EQUIPMENT (UNIT VENTILATORS, BLOWER COILS, FAN COILS, AIR HANDLERS, ETC.) AND NEW OR EXISTING OUTSIDE AIR LOUVERS. CONTRACTOR IS ALSO RESPONSIBLE FOR REINFORCING ANY OUTSIDE AIR LOUVER OPENING THAT IS CREATED OR ENLARGED TO ACCOMMODATE THE NEW INSTALLATION.
24. UNLESS SPECIFICALLY DIRECTED OTHERWISE THE CONTRACTOR SHALL SUBMIT PRE-DEMOLITION/ PRE-CONSTRUCTION VIDEOS AND/ OR PHOTOGRAPHS OF THE EXISTING CONDITIONS IN THE PROPOSED AREA OF WORK TO THE ENGINEER FOR REVIEW PRIOR TO START OF DEMOLITION/ CONSTRUCTION WORK.

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR
ADJ.	ADJACENT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLER UNIT
AP	ACCESS PANEL
B	BOILER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTOR
BOD	BOTTOM OF DUCT
BOL	BOTTOM OF LOUVER
C	CONDENSATE
CD	CEILING DIFFUSER
CEG	CEILING EXHAUST GRILLE
CER	CEILING EXHAUST REGISTER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEANOUT
COG	CLEANOUT ON GRADE
COND	CONDENSATE PIPING
CONT	CONTINUED
CRG	CEILING RETURN GRILLE
CRR	CEILING RETURN REGISTER
CSV	CIRCUIT SETTER VALVE
CT	COOLING TOWER
CTR	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CWS	COLD WATER SUPPLY
CWS/R	CONDENSER WATER SUPPLY/RETURN
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DN	DOWN
EA	EXHAUST AIR
EBBH	ELECTRIC BASEBOARD HEATER
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING
FC	FLEXIBLE CONNECTION/FAN COIL
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FRG	FLOOR RETURN GRILLE
FRR	FLOOR RETURN REGISTER
G	GAS PIPING
GV	GRAVITY VENTILATOR
HB	HOSE BIBB
HD	HAND DAMPER
HP	HEAT PUMP
HW	HOT WATER
HWC	HANDICAPPED WATER CLOSET
HWG	HOT WATER GENERATOR
HWH	HOT WATER HEATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
L	LOUVER
LAV	LAVATORY
LBG	LINEAR BAR GRILLE
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LRG	LINEAR RETURN GRILLE
LSR	LINEAR SUPPLY REGISTER
MD	MOTORIZED DAMPER
MH	MANHOLE
MSB	MOP SERVICE BASIN
MUA	MAKE-UP AIR UNIT
MV	MIXING VALVE (THERMOSTATIC)
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
P	PUMP
RA	RETURN AIR
RD	ROOF DRAIN
RH	RADIANT HEATER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
RWC	RAIN WATER CONDUCTOR
S	SINK/SANITARY PIPING
S=02'	SLOPE
SA	SUPPLY AIR
SD	SPLITTER DAMPER
SH	SHOWER
SP	SPRINKLER PIPING
SS	SOIL STACK
ST	STORM PIPING
STM	STEAM PIPING
SV	STACK VENT
SW	SAFEWASTE
T	TUB
TAG	TRANSFER AIR GRILLE
TOD	TOP OF DUCT
TP	TRAP PRIMER
TR	TRANSITION
TWR	TEMPERED WATER RETURN
TWS	TEMPERED WATER SUPPLY
TYP	TYPICAL
UH	UNIT HEATER
UR	URINAL
V	VENT PIPING
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VIF	VERIFY IN FIELD
VS	VENT STACK
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WEG	WALL EXHAUST GRILLE
WER	WALL EXHAUST REGISTER
WHA	WATER HAMMER ARRESTOR
WHY	WALL HYDRANT
WMS	WIREMESH SCREEN
WRG	WALL RETURN GRILLE
WRR	WALL RETURN REGISTER
WSFU	WALL SUPPLY FIXTURE UNIT
WSG	WALL SUPPLY GRILLE
WSR	WALL SUPPLY REGISTER

MECHANICAL SYMBOLS

- EQUIPMENT MARK (TYPE FC, NUMBER 1)
- SECTION INDICATOR (SECTION B2 ON DWG. --)
- DETAIL INDICATOR (DETAIL B2 ON DWG. --)
- KEY NOTE INDICATOR (REFERS TO NOTES ON SAME SHEET)
- REVISIONS INDICATOR
- PIPE RISER (RISER HWS-11 ON DWG. --)
- DUCT RISER (RISER E-1 ON DWG. --)
- DIFFUSER/REGISTER/GRILLE MARK (TYPE A, 150 CFM, DIRECTION)
- DOOR UNDERCUT
- TRANSFER AIR
- DIAMETER
- CONNECTION TO EXISTING
- POINT OF DISCONNECTION
- FLAT OVAL DUCT DIMENSION
- INSIDE DUCT DIMENSION (IN INCHES, FIRST DIMENSION IS AS VIEWED)
- SOUND LINED DUCTWORK
- SUPPLY DUCT TURNED UP
- SUPPLY DUCT TURNED DOWN
- RETURN/EXHAUST DUCT TURNED UP
- RETURN/EXHAUST DUCT TURNED DOWN
- SQUARE ELBOW (WITH TURNING VANES)
- ROUND ELBOW
- SPIN-IN WITH VOLUME DAMPER FOR ROUND DUCT
- TAKE OFF WITH VOLUME DAMPER FOR RECTANGULAR DUCT
- OPEN END DUCT WITH WMS
- DUCT WORK TO BE REMOVED & EXISTING DUCTWORK TO BE CAPPED
- EXISTING DUCTWORK TO BE RELOCATED
- FLEXIBLE DUCTWORK (SINGLE LINE)
- FLEXIBLE DUCTWORK (DOUBLE LINE)
- SUPPLY DIFFUSER
- SUPPLY AIR DIFFUSER WITH 3 DIRECTION DISCHARGE (BLACK TRIANGLE INDICATED BLANK REF.)
- RETURN/EXHAUST REGISTER OR GRILLE
- SLOT DIFFUSER WITH PLENUMS
- EXHAUST FAN
- ELECTRIC BASEBOARD
- VOLUME DAMPER (MANUAL)
- BACKDRAFT DAMPER
- FIRE DAMPER
- MOTORIZED DAMPER
- MOTORIZED SMOKE/FIRE DAMPER
- CARBON MONOXIDE SENSOR
- THERMOSTAT
- HUMIDISTAT
- SENSOR
- DUCT DETECTOR
- BALL VALVE
- BUTTERFLY VALVE
- GATE VALVE
- EMERGENCY BOILER SHUTOFF
- SOUND ATTENUATOR
- PRESSURE/TEMPERATURE TEST PLUG
- PRESSURE GAUGE
- GAUGECOCK
- THERMOMETER
- PRESSURE TEMPERATURE TAP
- EXISTING HYDRONIC CONTROL VALVE
- HOSE BIBB DRAIN VALVE
- INSULATED PIPE
- VERTICAL VALVE
- CIRCUIT SETTER
- FLOW METER (MAGNETIC)
- FLOW METER (VENTURI)
- BALL JOINT
- SUCTION DIFFUSER
- PIPE ANCHOR
- PIPE GUIDE
- UNION
- VACUUM BREAKER
- CAP AND VALVED
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER STRAIGHT INVERT
- ECCENTRIC REDUCER STRAIGHT CROWN
- METER (SEE CONNECTED PIPING FOR TYPE OF SERVICE)
- CHAIN OPERATOR
- MOTOR OPERATOR
- FLOAT
- PUMP
- CLEANOUT
- FLOOR DRAIN WITH P-TRAP
- FUNNEL DRAIN
- TRAP
- DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER WITH GATE VALVES
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH GATE VALVES
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH BALL VALVES
- DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER WITH BALL VALVES
- HOSE BIBB
- FPHB FROSTPROOF HOSE BIBB
- WATER HAMMER ARRESTOR
- PITCH PIPE DOWN IN DIRECTION OF ARROW
- TEE TURN UP
- TEE TURNED DOWN
- PIPE TURNED UP
- PIPE TURNED DOWN
- KEY SWITCH
- BUSHING
- FLEXIBLE PIPE CONNECTION
- MANUAL AIR VENT
- CONCEALED SPRINKLER HEAD
- PENDANT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- RS REFRIGERANT SUCTION ROUTE
- RL REFRIGERANT LIQUID ROUTE
- DOMESTIC COLD WATER PIPE
- BLIND FLANGE END CONNECTION
- LOCK SHIELD GATE VALVE
- GLOBE VALVE
- ANGLE GLOBE VALVE
- PLUG VALVE
- OS & Y GATE VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- PRESSURE RELIEF VALVE
- TEMPERATURE & PRESSURE RELIEF VALVE
- CALIBRATED BALANCE VALVE
- AUTOMATIC FLOW CONTROL VALVE
- COMBINATION CHECK/BALANCE/SHUT OFF VALVE
- SWING CHECK VALVE
- SPRING LOADED CHECK VALVE
- ALARM CHECK VALVE
- COMBINATION CHECK/BALANCE/SHUT OFF VALVE
- NEEDLE VALVE
- PRESSURE REGULATOR
- BACK PRESSURE REGULATOR
- DIAPHRAGM VALVE
- SOLENOID VALVE
- FLOW SWITCH
- PRESSURE SWITCH
- VALVE MONITOR SWITCH
- STRAINER
- BLOW-OFF STRAINER
- DOMESTIC HOT WATER PIPE
- DOMESTIC HOT WATER RETURN PIPE
- SAN SANITARY SEWER
- SAN SANITARY SEWER BELOW GRADE OR SLAB
- ST STORM SEWER
- ST STORM SEWER BELOW GRADE OR SLAB
- V PLUMBING VENT
- D DRAIN PIPE
- F FIRE PROTECTION PIPE
- CH CHEMICAL FEED PIPE
- EX EXPANSION TANK PIPE
- HHWS HEATING HOT WATER SUPPLY PIPE
- HHWR HEATING HOT WATER RETURN PIPE
- CHWS CHILLED WATER SUPPLY PIPE
- CHWR CHILLED WATER RETURN PIPE
- CWS CONDENSER WATER SUPPLY PIPE
- CWR CONDENSER WATER RETURN PIPE
- COND CONDENSATE WATER PIPING
- A COMPRESSED AIR PIPE
- VAC VACUUM PIPE
- G NATURAL GAS PIPING
- AW ACID WASTE PIPING
- FO FUEL OIL PIPING
- PIPING TO BE DEMOLISHED

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~ENGINEERING EXCELLENCE~

DATE: 07/16/2026

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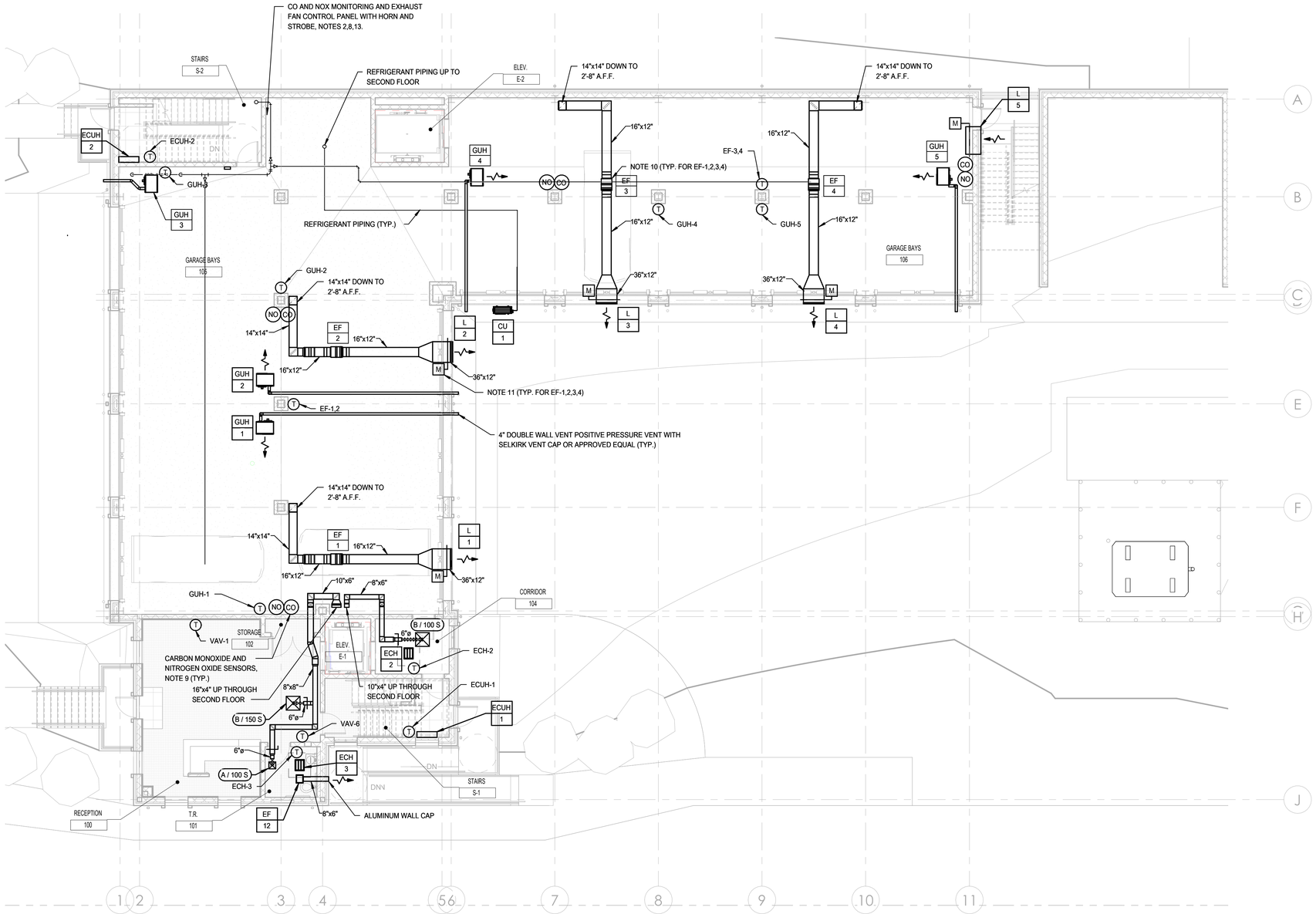
MECHANICAL COVER SHEET

CITY OF MARGATE — MARGATE PUBLIC WORKS BUILDING — NEW JERSEY

CITY OF MARGATE — ATLANTIC COUNTY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		12" = 1'-0"
DATE: 12/13/2024		SHEET No.: M-1.0	
JOB No.: 0116U200			

Autodesk Docs://Margate Public Works Building/0116U200 - MEP - 2025.rvt



1 MECHANICAL FIRST FLOOR PLAN

1/8" = 1'-0"

NOTES

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. ALL WORK REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
3. DUCTWORK ROUTINGS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL ROUTINGS IN THE FIELD TO AVOID INTERFERENCES. CONTRACTOR TO COORDINATE DUCTWORK/UNIT INSTALLATION WITH ALL STRUCTURAL STEEL, ELECTRICAL CONDUIT, SYSTEMS WIRING/CABLE, CLOCK SYSTEM, FIRE PROTECTION PIPING, PLUMBING PIPING (SANITARY DRAINAGE, ROOF DRAINAGE, DOMESTIC HOT/COLD WATER AND GAS PIPING), ETC. AS REQUIRED. ALL MODIFICATIONS MADE TO THE NEW DUCTWORK OR PIPING TO RESOLVE INTERFERENCES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. SEE DIVISION 26 DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. COORDINATE FINAL CEILING DIFFUSER LAYOUT WITH FINAL CEILING TILE LOCATIONS.
5. CONTRACTOR TO VERIFY EXACT DUCT RUN AND SIZE IN FIELD. ALL DUCTWORK SHOWN ON FLOOR PLANS IS SCHEMATIC AND EXACT LOCATIONS AND DIMENSIONS MUST BE VERIFIED IN FIELD.
6. CONTRACTOR TO PROVIDE FIRE STOPPING SLEEVES AS REQUIRED FOR ALL PROPOSED CORRIDOR/ FIREWALL/ FLOOR/ ROOF PENETRATIONS.
7. TRANSFER AIR DUCTWORK ABOVE CEILING. PROVIDE WIRE MESH SCREEN ON EACH SIDE OF THE OPENING. PROVIDE WITH 90 DEGREE ELBOW WHERE SPACE ALLOWS.
8. MACURCO DVP-120 AUTOMATIC CO AND NOX MONITORING EXHAUST FAN CONTROLLER . THE CONTROLLER SHALL ACTIVATE THE EXHAUST FANS, OUTDOOR AIR DAMPERS AND ALARM BELL ON A DETECTION OF CARBON MONOXIDE AND/OR NITROGEN DIOXIDE. CARBON MONOXIDE DETECTION AND/OR NITROGEN DIOXIDE LEVELS SHALL BE AS RECOMMENDED BY THE CONTROLLER MANUFACTURER. PROVIDE SYSTEM WITH A MANUAL OVERRIDE SWITCH SUCH THAT THE FANS CAN RUN CONTINUOUSLY.
9. COMBINATION CARBON MONOXIDE AND NITROGEN DIOXIDE DETECTOR MODEL CX-6 BY MACURCO OR APPROVED EQUAL. SENSOR SHALL BE APPROXIMATELY 5'-0" A.F.F. THE MINIMUM QUANTITY OF DETECTORS IS SHOWN ON THE DRAWING. PROVIDE FINAL QUANTITY AND LOCATION FOR DETECTION OVER THE ENTIRE GARAGE AREA IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL WIRING, CONDUIT, ETC. TO CONNECT DETECTORS TO THE CONTROL PANEL THAT CONTROLS THE EXHAUST FANS IN THE DETECTION AREA.
10. INTERLOCK EXHAUST FAN EF-1,2,3,4 WITH THE MOTORIZED DAMPER FOR LOUVER L-5.
11. INTERLOCK EXHAUST FAN WITH ASSOCIATED DISCHARGE LOUVER MOTORIZED DAMPER.
12. THE AUTOMATIC CO AND NOX MONITORING AND EXHAUST FAN CONTROLLER SHALL ACTIVATE THE EXHAUST FANS, MOTORIZED DAMPERS, ALARM BELL AND STROBE LIGHT ON A DETECTION OF CARBON MONOXIDE AND/OR NITROGEN DIOXIDE. CARBON MONOXIDE AND NITROGEN DIOXIDE LEVELS SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. PROVIDE SYSTEM WITH A MANUAL OVERRIDE SWITCH SUCH THAT THE FANS CAN RUN CONTINUOUSLY.

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Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

STATE OF NEW JERSEY — MICHAEL P. GELHARDT — LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

TIMOTHY D. KOLODY
NJ PROFESSIONAL ENGINEER LIC. No. 51529

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No.	REVISION	DATE	BY	CHK

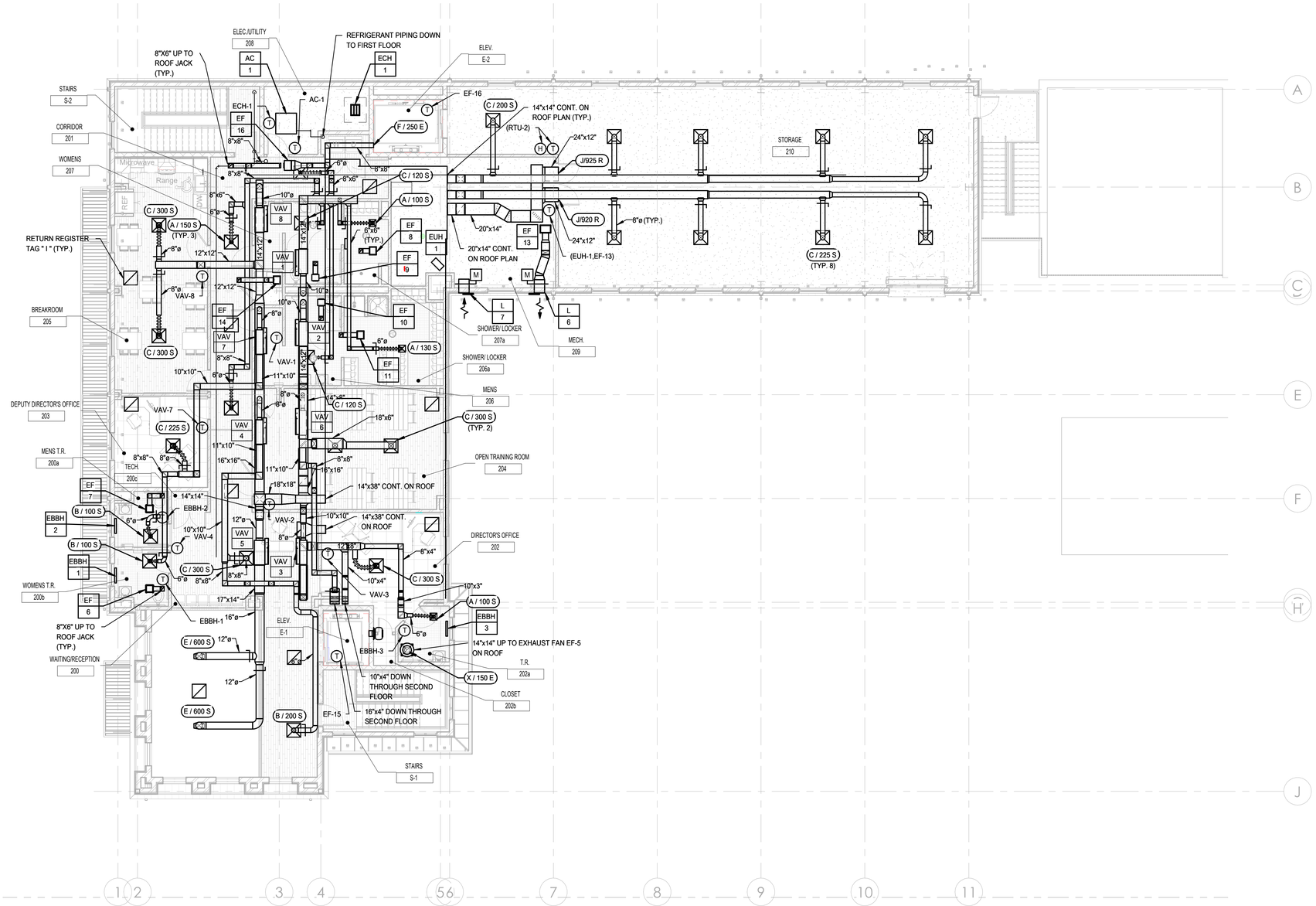
MECHANICAL FIRST FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE — ATLANTIC COUNTY — NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.	M.G.	1/8" = 1'-0"

DATE: 12/13/2024
JOB No.: 0116U200
SHEET No.: M-2.1

Assistant Docs:Margate Public Works Building\m116u200 - MEP - 2025.rvt



1 MECHANICAL SECOND FLOOR PLAN

1/8" = 1'-0"

NOTES

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. ALL WORK REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
3. DUCTWORK ROUTINGS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL ROUTINGS IN THE FIELD TO AVOID INTERFERENCES. CONTRACTOR TO COORDINATE DUCTWORK/UNIT INSTALLATION WITH ALL STRUCTURAL STEEL, ELECTRICAL CONDUIT, SYSTEMS WIRING/CABLE, CLOCK SYSTEM, FIRE PROTECTION PIPING, PLUMBING PIPING (SANITARY DRAINAGE, ROOF DRAINAGE, DOMESTIC HOT/COLD WATER AND GAS PIPING), ETC. AS REQUIRED. ALL MODIFICATIONS MADE TO THE NEW DUCTWORK OR PIPING TO RESOLVE INTERFERENCES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. SEE DIVISION 26 DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. COORDINATE FINAL CEILING DIFFUSER LAYOUT WITH FINAL CEILING TILE LOCATIONS.
5. CONTRACTOR TO VERIFY EXACT DUCT RUN AND SIZE IN FIELD. ALL DUCTWORK SHOWN ON FLOOR PLANS IS SCHEMATIC AND EXACT LOCATIONS AND DIMENSIONS MUST BE VERIFIED IN FIELD.
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24GE04705400
LICENSED
PROFESSIONAL ENGINEER

DATE: 07/16/2026

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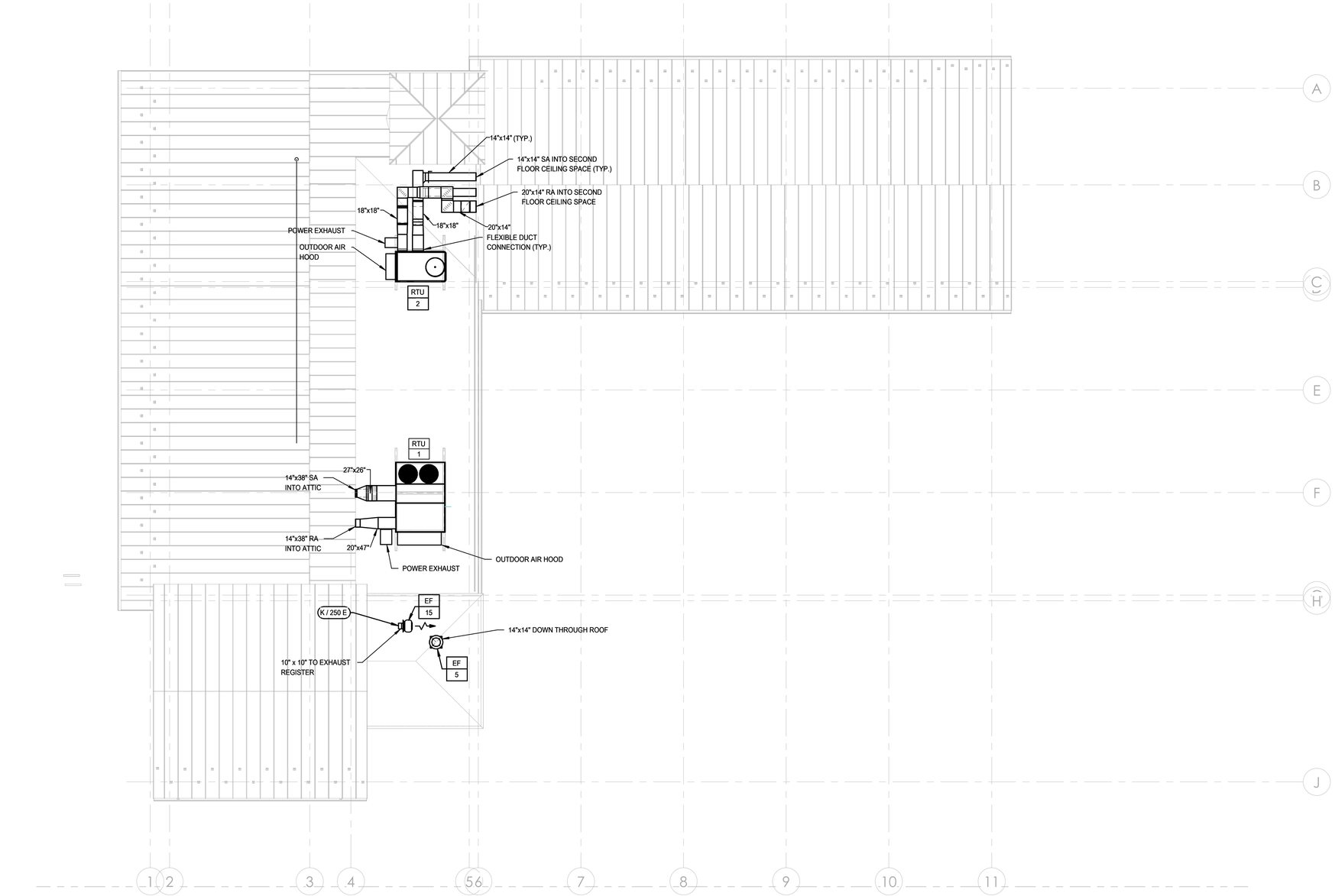
MECHANICAL SECOND FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY

CITY OF MARGATE

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.	M.G.	1/8" = 1'-0"
DATE: 12/13/2024			SHEET No.: M-2.2
JOB No.: 0116U200			

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1 MECHANICAL ROOF PLAN

1/8" = 1'-0"

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~ENGINEERING EXCELLENCE~

STATE OF NEW JERSEY · MICHAEL P. GELHARDT · 25847 · LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

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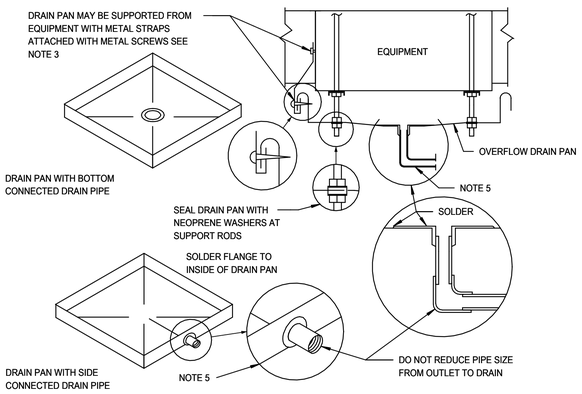
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MECHANICAL ROOF PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.	M.G.	1/8" = 1'-0"
DATE: 12/13/2024		SHEET No.: M-2.3	
JOB No.: 0116U200			

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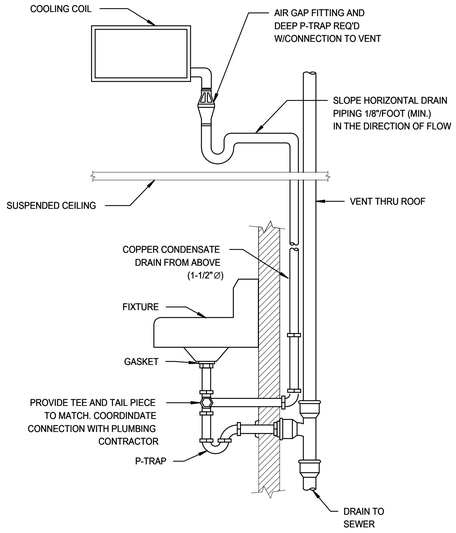


NOTES:

1. CROSS BREAK BOTTOM OF SHEET METAL DRAIN PAN TO PROVIDE SLOPED DRAINAGE TO OUTLET.
2. SOLDER OR OTHERWISE SEAL ALL JOINTS TO MAKE DRAIN PAN LEAK TIGHT.
3. SUSPEND DRAIN PAN WITH EQUIPMENT SUPPORT RODS WHEN POSSIBLE, OTHERWISE ATTACH WITH STRAPS TO EQUIPMENT.
4. FABRICATE DRAIN PAN FROM 24 GA GALVANIZED SHEET METAL.
5. ROUTE DRAIN TO CODE APPROVED CONSPICUOUS LOCATION AND PIPE SEPARATELY FROM CONDENSATE DRAIN PIPE.

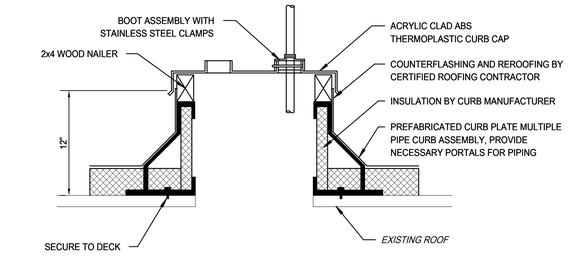
7 CONDENSATE OVERFLOW DRAIN PAN1

12" = 1'-0"



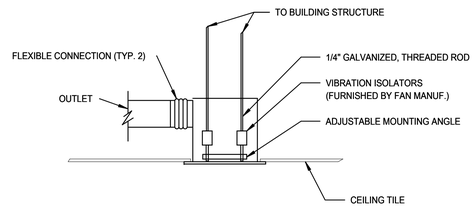
5 CONDENSATE DRAIN TO SINK DRAIN1

12" = 1'-0"



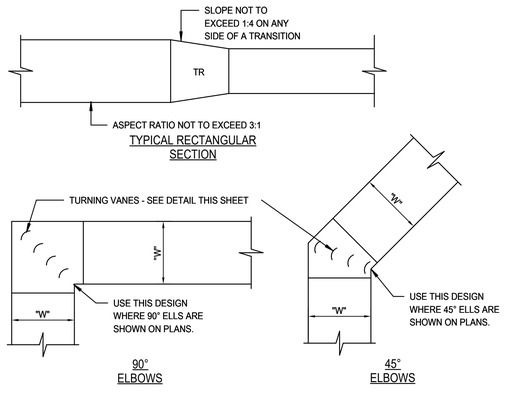
1 BOOT TYPE PIPE PENETRATION

12" = 1'-0"



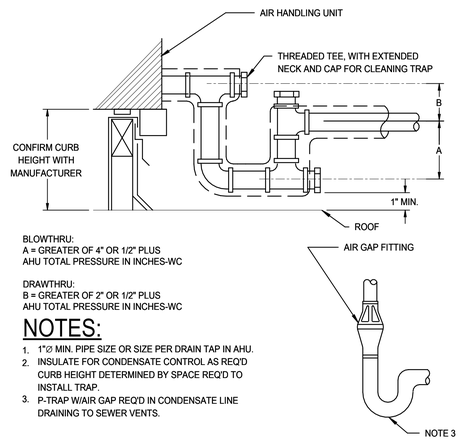
2 CEILING MOUNTED EXHAUST FAN

12" = 1'-0"



8 DUCT LAYOUT DETAILS

12" = 1'-0"

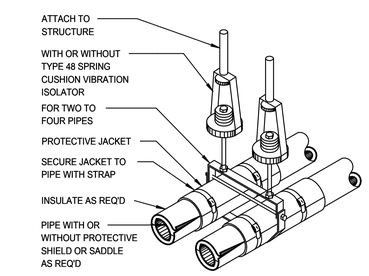


NOTES:

1. 1"Ø MIN. PIPE SIZE OR SIZE PER DRAIN TAP IN AHU.
2. INSULATE FOR CONDENSATE CONTROL AS REQ'D
3. CURB HEIGHT DETERMINED BY SPACE REQ'D TO INSTALL TRAP.
4. P-TRAP W/AIR GAP REQ'D IN CONDENSATE LINE DRAINING TO SEWER VENTS.

6 CONDENSATE DRAIN TRAP

12" = 1'-0"



3 CLEVIS HANGER - MULTIPLE PIPE TYPE 1

12" = 1'-0"

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~ENGINEERING EXCELLENCE~

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24GA50470400
LICENSED PROFESSIONAL ENGINEER

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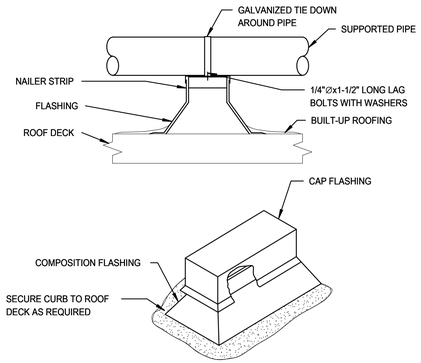
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MECHANICAL DETAILS

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY
CITY OF MARGATE

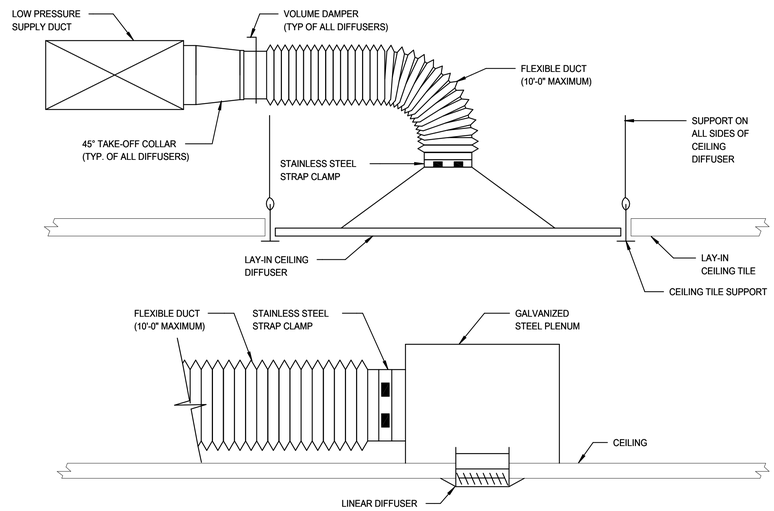
DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		12" = 1'-0"
DATE: 12/13/2024			SHEET No.: M-4.1
JOB No.: 0116U200			

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9 ROOF MOUNTED PIPE/DUCT SUPPORT

12" = 1'-0"

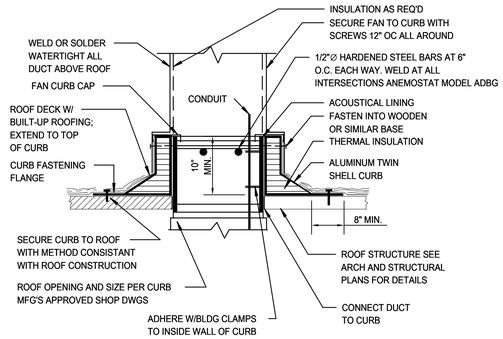


4 FLEXIBLE BRANCH DUCT WORK

12" = 1'-0"

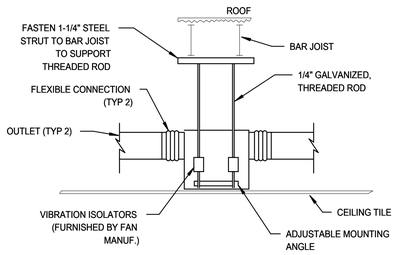
NOTES:

1. PUSH BACK GRAVEL A MIN. OF 30" IN ALL DIRECTIONS. FLASH WITH 90# MINERAL FACED BASE FLASHING. STRIP WITH 3 LAYERS OF ROOFING FELT EMBEDDED ASPHALT GRAVEL TO MATCH.
2. INSTALL LOUVER DAMPERS WHEN REQ'D W/OUT DEFORMATION TO LOUVER FRAME; INSURE LOUVER'S MOVEMENT IS FREE AND UNRESTRICTED AFTER FAN IS INSTALLED.
3. IF ELECTRICAL CONDUIT IS TO BE INSTALLED INSIDE DUCT, SECURE TO DUCT WALL W/CLAMPS AND SCREWS. BE SURE THAT CONDUIT DOES NOT INTERFERE W/BACK DRAFT DAMPER OPERATION IF INSTALLED.



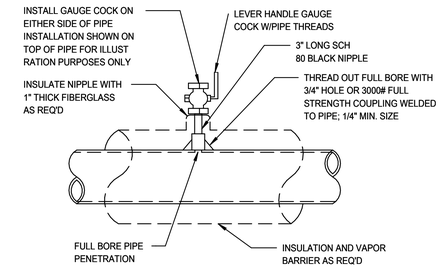
1 DUCT PENETRATION OR CURB INSTALLATION THRU MEMBRANE ROOF

12" = 1'-0"



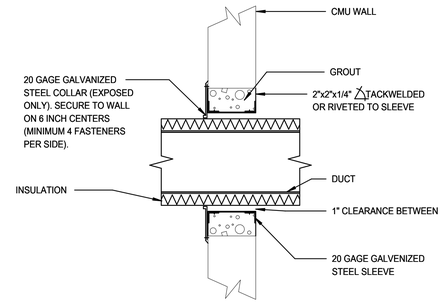
7 INLINE FAN DETAIL

12" = 1'-0"



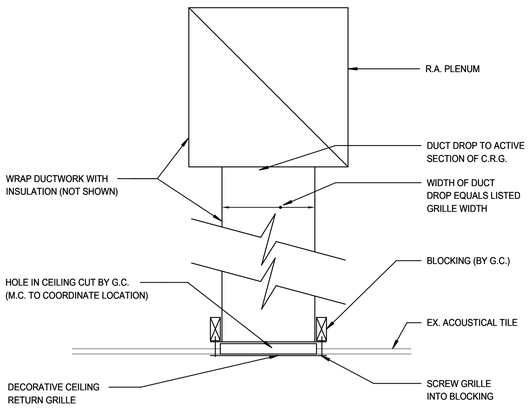
5 GAUGE COCK INSTALLATION1

12" = 1'-0"



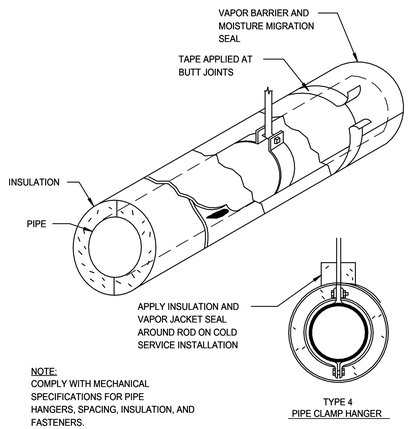
2 DUCT PENETRATION THROUGH WALL (NOT APPLICABLE TO FIRE-RATED WALLS)

12" = 1'-0"



8 RETURN AIR GRILLE - CEILING MOUNT

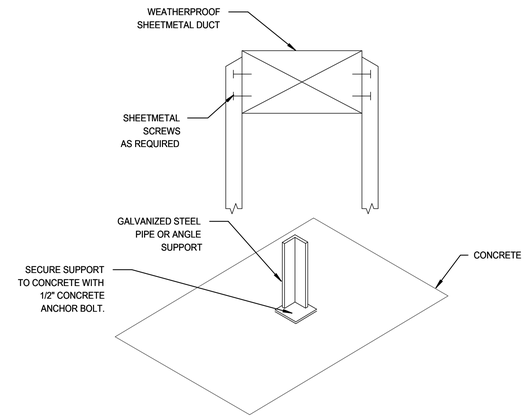
12" = 1'-0"



NOTE:
COMPLY WITH MECHANICAL SPECIFICATIONS FOR PIPE HANGERS, SPACING, INSULATION, AND FASTENERS.

6 HANGER, INSULATION AND VAPOR JACKET DETAIL

12" = 1'-0"



3 DUCT SUPPORT

12" = 1'-0"

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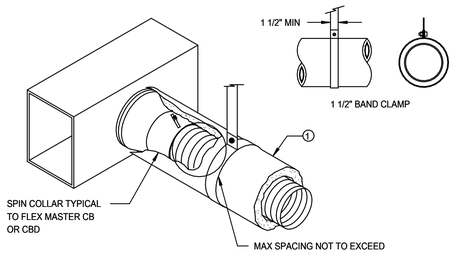
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CITY OF MARGATE

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.	M.G.	12" = 1'-0"

DATE: 12/13/2024
JOB No.: 0116U200
SHEET No.: M-4.2

Autodesk Docs://Margate Public Works Building/0116U200 - MEP - 2025.rvt



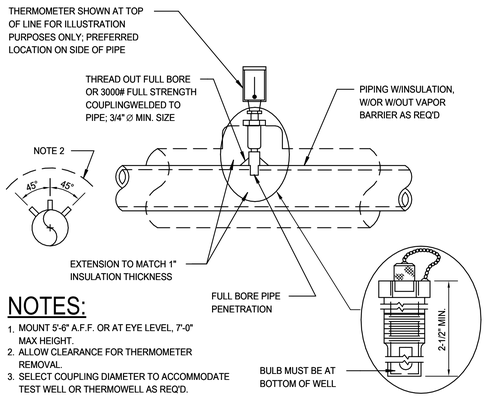
GAUGE	THK.	1" STRAP CAPABILITY	MAXIMUM LOAD
24	.028	840	168
22	.034	1070	216
20	.040	1298	259

* ELASTIC LIMIT ASSUMED 30ksi; RECOMMEND MAX LOAD (20% OF YIELD STRENGTH).

NOTES:
1. FLEX DUCT WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING.

4 SUGGEST SUPPORT REQUIREMENTS FOR FLEX & STRAIGHT RECTANGULAR DUCT

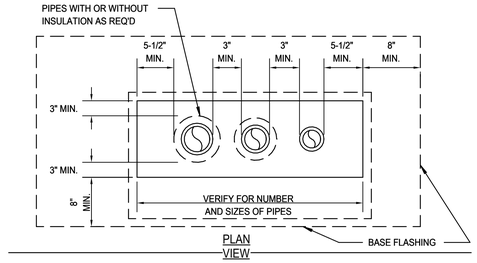
12" = 1'-0"

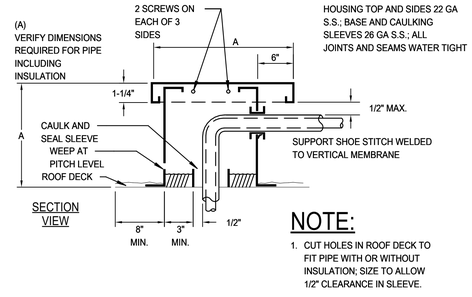


NOTES:
1. MOUNT 5'-6" A.F.F. OR AT EYE LEVEL, 7'-0" MAX HEIGHT.
2. ALLOW CLEARANCE FOR THERMOMETER REMOVAL.
3. SELECT COUPLING DIAMETER TO ACCOMMODATE TEST WELL OR THERMOWELL AS REQ'D.

5 THEMOMETER AND THEMOWELL INSTALLATION

12" = 1'-0"

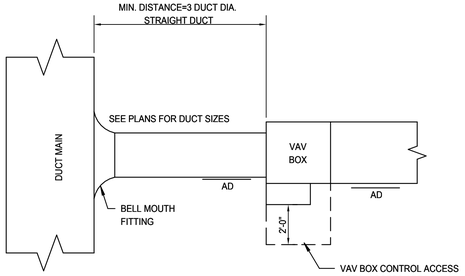




NOTE:
1. CUT HOLES IN ROOF DECK TO FIT PIPE WITH OR WITHOUT INSULATION; SIZE TO ALLOW 1/2" CLEARANCE IN SLEEVE.

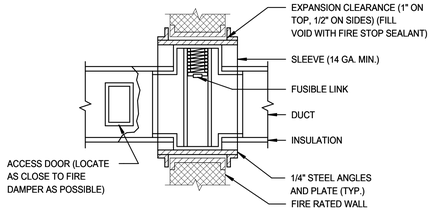
1 ROOF PENETRATIONS FOR MULTIPLE PIPES THRU MEMBRANE ROOF

12" = 1'-0"



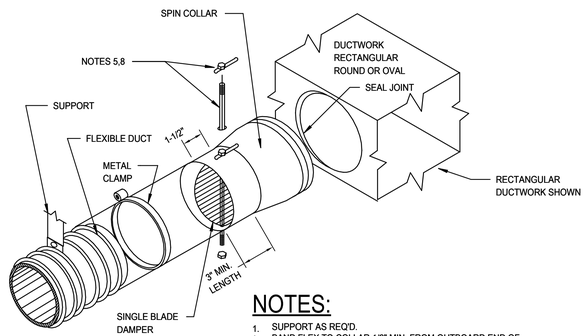
6 VAV BOX INSTALLLATION DETAIL

12" = 1'-0"



7 VERTICAL FIRE DAMPER DETAIL

12" = 1'-0"



NOTES:
1. SUPPORT AS REQ'D.
2. BAND FLEX TO COLLAR 1/2" MIN. FROM OUTBOARD END OF COLLAR.
3. INSTALL SPIN COLLAR DAMPER IN OPEN POSITION; FINAL ADJUSTMENT BY TAB CONTRACTOR.
4. PULL FLEXIBLE DUCTWORK INSULATION UP TO END OF SPIN COLLAR AT EDGE OF RECTANGULAR DUCTWORK; SEAL VAPOR BARRIER W/GREY TAPE TO PREVENT MOISTURE MIGRATION.
5. PROVIDE EXTENSION RODS TO ACCOMMODATE INSULATION, PULL TO EDGE OF DUCTWORK AS REQ'D AND SEAL TO EFFECT VAPOR BARRIER.
6. POP RIVET OR SHEET METAL SCREWS, MIN. 3 EA. AT 120° INTERVALS, CONNECTING STOVEPIPE TO COLLAR. ENSURE RIVETS OR SCREWS DO NOT INTERFERE WITH DAMPER.
7. TAPE AND SEAL ALL JOINTS TO PREVENT LEAKAGE.
8. INSTALL LOCKING QUADRANT AND HANDLE ON BOTTOM OF DUCT FOR EASY SERVICE (SHOWN ON TOP FOR EASE OF ILLUSTRATION ONLY).

3 SPIN COLLAR FLEXIBLE DUCT CONNECTOR WITH DAMPER

12" = 1'-0"

REMINGTON & VERNICK **ENGINEERS**
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~ENGINEERING EXCELLENCE~

STATE OF NEW JERSEY · MICHAEL P. GELHARDT · 24GA27047600 · LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

TIMOTHY D. KOLODY
NJ PROFESSIONAL ENGINEER LIC. No. 51529

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No.	REVISION	DATE	BY	CHK

MECHANICAL DETAILS

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY
CITY OF MARGATE

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
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NON-POWERED VAV BOX SCHEDULE

TAG	ROOMS SERVED	SYSTEM	WEIGHT (LBS.)	MAX. AIRFLOW SETTING (CFM)	MIN. AIRFLOW SETTING (CFM)	INLET SIZE	MAX. AIR PD (IN WC)	ELECTRIC REHEAT COIL									MAX. AIR PD. (IN WC)	MAXIMUM SOUND LEVELS		BASIS OF DESIGN	NOTES
								COIL E.A.T. (0F)	COIL L.A.T (0F)	DESIGN CAPACITY (MBH)	KW	ELECTRIC HEAT MODULATION	VOLTAGE (V-PH-HZ)	FULL LOAD AMPS	MINIMUM CIRCUIT AMPACITY	MAX. FUSE SIZE		DISCHARGE NC	RADIATED NC		
VAV-1	MEN'S TOILET ROOM 206, SHOWER/LOCKER 206A, WOMEN'S TOILET ROOM 207, SHOWER/LOCKER 207A, CORRIDOR 201	RTU-1	117	920	460	10"	0.5	60	96.8	36.6	10.7	SCR	208-3-60	24.98	31.23	35	0.15	16	17	TRANE VCEF10	SEE BELOW
VAV-2	OPEN TRAINING ROOM 204	RTU-1	117	600	300	10"	0.5	60	96.7	23.8	7.0	SCR	208-3-60	19.43	24.29	25	0.15	<15	<15	TRANE VCEF10	SEE BELOW
VAV-3	DIRECTOR'S OFFICE 202, TOILET ROOM 202A, CORRIDOR 104	RTU-1	97.9	500	250	8"	0.5	60	94.6	18.7	5.5	SCR	208-1-60	26.44	33.05	35	0.15	19	17	TRANE VCEF08	SEE BELOW
VAV-4	WAITING RECEPTION 200	RTU-1	97.9	500	250	8"	0.5	60	94.6	18.7	5.5	SCR	208-1-60	26.44	33.05	35	0.15	19	17	TRANE VCEF08	SEE BELOW
VAV-5	RECEPTION 100 (HIGH CEILING)	RTU-1	134.2	1200	600	12"	0.5	60	96.7	47.6	13.9	SCR	208-3-60	38.86	48.58	50	0.15	17	19	TRANE VCEF12	SEE BELOW
VAV-6	RECEPTION 100 (LOW CEILING), TOILET ROOM 101	RTU-1	94.9	250	130	6"	0.5	60	97.8	10.2	3.0	SCR	208-1-60	14.42	18.03	20	0.15	17	<15	TRANE VCEF06	SEE BELOW
VAV-7	DEPUTY DIRECTOR'S OFFICE 203, MEN'S TOILET ROOM 200A, WOMEN'S TOILET ROOM 200B,	RTU-1	97.9	425	220	8"	0.5	60	97.0	17.0	5.0	SCR	208-1-60	24.04	30.05	35	0.15	17	15	TRANE VCEF08	SEE BELOW
VAV-8	BREAKROOM 205	RTU-1	117	600	300	10"	0.5	60	94.1	22.1	6.5	SCR	208-3-60	18.04	22.55	25	0.15	<15	<15	TRANE VCEF10	SEE BELOW

NOTES:
1. PROVIDE 22 GAUGE GALVANIZED STEEL DOUBLE WALL INSULATED CASING WITH 1" INSULATION THICKNESS.
2. PROVIDE ELECTRIC REHEAT COIL WITH SCR CONTROL.
3. PROVIDE FOUR-POINT DUAL AVERAGING DISCHARGE AIR TEMP SENSOR AND ALL OTHER INSTRUMENTS AND CONTROL DEVICES REQUIRED TO OPERATE THE BOXES IN ACCORDANCE WITH THE DIVISION 15 SPECIFICATIONS. COORDINATE CONTROL INSTALLATION WITH THE HVAC CONTROL SYSTEM CONTRACTOR FOR FACTORY MOUNTING.
4. PROVIDE WITH 208 TO 24 VOLT TRANSFORMER.
5. PROVIDE WITH DISCONNECT SWITCH.
6. PROVIDE WITH BACNET MS/TP CONTROLLER WITH SCR HEAT CONTROL.
7. PROVIDE 24 VOLT SPRING RETURN ACTUATOR (NORMALLY CLOSED).
8. ALL CONNECTIONS TO PRIMARY INLETS TO BE HARD DUCTED IN SIZES INDICATED ON THE SCHEDULE DUCTWORK CONNECTIONS WITH REQUIRED AIR VALVE SIZES, EVEN IF SHOWN DIFFERENTLY ON DESIGN DRAWINGS.
9. PROVIDE ULTRA LOW LEAK CASING WITH A MAXIMUM LEAKAGE RATE OF 6 CFM AT 1" INLET PRESSURE..
10. PROVIDE ULTRA LOW LEAK DAMPER WITH A MAXIMUM LEAKAGE RATE OF 2.5 CFM AT 1" INLET PRESSURE.

VENTILATION SCHEDULE

ROOM NAME	EQUIPMENT TAG NUMBER	APPROX. AREA (SF)	OCCUPANT DENSITY # PEOPLE/ 1000 SF	NUMBER OF PEOPLE & / OR FIXTURES	VENTILATION AIR REQUIREMENTS (ASHRAE 62, INTERNATIONAL MECH CODE 2021)												OUTDOOR AIR	EXHAUST AIR	RETURN AIR	SUPPLY AIR
					PEOPLE OUTDOOR AIRFLOW RATE *Rp*	TOTAL PEOPLE OUTDOOR AIRFLOW (CFM)	AREA OUTDOOR AIRFLOW RATE *Ra*	TOTAL AREA OUTDOOR AIRFLOW (CFM)	BREATHING ZONE OUTDOOR AIRFLOW *(CFM) Vbz*	ZONE AIR DISTRIBUTION EFFECTIVENESS *(COOLING) Ez*	ZONE AIR DISTRIBUTION EFFECTIVENESS *(HEATING) Ez*	ZONE OUTDOOR AIRFLOW *(CFM) Voz*	PRIMARY OUTDOOR AIR FRACTION *Zp*	SYSTEM VENTILATION EFFICIENCY *Ev*	EXHAUST AIRFLOW RATE	TOTAL EXHAUST AIRFLOW (CFM)	CORRECTED DESIGN TOTAL *(CFM) Vot*	DESIGN TOTAL (CFM)	DESIGN TOTAL (CFM)	DESIGN TOTAL MAX/MIN (CFM)
RTU-1																				
MEN'S TOILET ROOM 206		160	N/A	2 FIXTURES	70 CFM/FIXTURE	N/A	N/A	N/A	N/A	1.0	0.8	0	0.0	1.0	70 CFM/FIXTURE	140	35	150	0	120
SHOWER/LOCKER 206A		170	N/A	2 SHOWERS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		50 CFM/FIXTURE	100	35	150	0	130
WOMEN'S TOILET ROOM 207	VAV-1	152	N/A	2 FIXTURES	70 CFM/FIXTURE	N/A	N/A	N/A	N/A	1.0	0.8	0	0.0	1.0	70 CFM/FIXTURE	140	35	150	0	120
SHOWER/LOCKER 207A		75	N/A	1 SHOWER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		50 CFM/FIXTURE	50	25	150	0	100
CORRIDOR 201		400	N/A	N/A	N/A	N/A	0.06 CFM/SQ.FT.	24	24	1.0	0.8	30	0.1	1.0	N/A	0	125	0	325	450
JANITOR CLOSET 206B		24	N/A	N/A	N/A	N/A	0.12 CFM/SQ.FT.	3	3	1.0	0.8	4	0.0	0.9	N/A	0	0	150	0	0
OPEN TRAINING ROOM 204	VAV-2	465	50	13 PEOPLE	5 CFM/PERSON	65	0.06 CFM/SQ.FT.	28	93	1.0	0.8	116	0.2	1.0	N/A	0	165	0	435	600
DIRECTOR'S OFFICE 202	VAV-3	253	5	2 PEOPLE	5 CFM/PERSON	10	0.06 CFM/SQ.FT.	15	25	1.0	0.8	31	0.1	1.0	N/A	0	80	0	220	300
TOILET ROOM 202A		50	N/A	1 FIXTURE	70 CFM/FIXTURE	N/A	N/A	N/A	N/A	1.0	0.8	0	0.0	1.0	70 CFM/FIXTURE	70	25	150	0	100
CORRIDOR 104		50	N/A	N/A	N/A	N/A	0.06 CFM/SQ.FT.	3	3	1.0	0.8	4	0.1	1.0	N/A	0	25	0	75	100
WAITING RECEPTION 200	VAV-4	490	10	5 PEOPLE	5 CFM/PERSON	25	0.06 CFM/SQ.FT.	29	54	1.0	0.8	68	0.1	1.0	N/A	0	135	0	365	500
RECEPTION 100 (HIGH CEILING)	VAV-5	442	10	5 PEOPLE	5 CFM/PERSON	25	0.06 CFM/SQ.FT.	27	52	1.0	0.8	64	0.1	1.0	N/A	0	325	0	875	1,200
RECEPTION 100 (LOW CEILING)	VAV-6	132	10	2 PEOPLE	5 CFM/PERSON	10	0.06 CFM/SQ.FT.	8	18	1.0	0.8	22	0.1	1.0	N/A	0	40	0	110	150
TOILET ROOM 101		60	N/A	1 FIXTURE	70 CFM/FIXTURE	0	N/A	N/A	N/A	1.0	0.8	N/A	N/A	1.0	70 CFM/FIXTURE	70	25	150	0	100
MEN'S TOILET ROOM 200A		60	N/A	1 FIXTURE	70 CFM/FIXTURE	N/A	N/A	N/A	N/A	1.0	0.8	0	0.0	1.0	70 CFM/FIXTURE	70	25	150	0	100
WOMEN'S TOILET ROOM 200B	VAV-7	60	N/A	1 FIXTURE	70 CFM/FIXTURE	N/A	N/A	N/A	N/A	1.0	0.8	0	0.0	1.0	70 CFM/FIXTURE	70	25	150	0	100
DEPUTY DIRECTOR'S OFFICE 203		175	5	1 PERSON	5 CFM/PERSON	5	0.06 CFM/SQ.FT.	11	16	1.0	0.8	19	0.1	1.0	N/A	0	60	0	165	225
BREAKROOM 205	VAV-8	450	30	14 PEOPLE	7.5 CFM/PERSON	105	0.18 CFM/SQ.FT.	81	186	1.0	0.8	233	0.4	1.0	N/A	0	165	0	435	600
		3668															1,350	1,350	3,005	4,995
RTU-2																				
STORAGE 209	RTU-2	1857	N/A	N/A	N/A	N/A	0.12 CFM/SQ.FT.	223	223	1.0	0.8	279	0.2	1.0	N/A	0	280	0	1,720	2,000
CORRIDOR		95	N/A	N/A	N/A	N/A	0.06 CFM/SQ.FT.	6	6	1.0	0.8	7	0.1	1.0	N/A	0	25	0	125	150
		1952															305	0	1,845	2,150

NOTES:
1. VENTILATION AIR QUANTITIES HAVE BEEN ADJUSTED BASED ON MULTIPLE ZONE RECIRCULATING SYSTEMS OF ASHRAE 62.1-2013.

VENTILATION SCHEDULE - GARAGE BAYS

ROOM NAME	EQUIPMENT TAG NUMBER	APPROX. AREA (SF)	OCCUPANT DENSITY # PEOPLE/ 1000 SF	NUMBER OF PEOPLE & / OR FIXTURES	VENTILATION AIR REQUIREMENTS (ASHRAE 62, INTERNATIONAL MECH CODE 2021)												OUTDOOR AIR	EXHAUST AIR	RETURN AIR	SUPPLY AIR
					PEOPLE OUTDOOR AIRFLOW RATE *Rp*	TOTAL PEOPLE OUTDOOR AIRFLOW (CFM)	AREA OUTDOOR AIRFLOW RATE *Ra*	TOTAL AREA OUTDOOR AIRFLOW (CFM)	BREATHING ZONE OUTDOOR AIRFLOW *(CFM) Vbz*	ZONE AIR DISTRIBUTION EFFECTIVENESS *(COOLING) Ez*	ZONE AIR DISTRIBUTION EFFECTIVENESS *(HEATING) Ez*	ZONE OUTDOOR AIRFLOW *(CFM) Voz*	PRIMARY OUTDOOR AIR FRACTION *Zp*	SYSTEM VENTILATION EFFICIENCY *Ev*	EXHAUST AIRFLOW RATE	TOTAL EXHAUST AIRFLOW (CFM)	CORRECTED DESIGN TOTAL *(CFM) Vot*	DESIGN TOTAL (CFM)	DESIGN TOTAL (CFM)	DESIGN TOTAL MAX/MIN (CFM)
GARAGE BAYS 105	EF-1,2	3,037	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0	0.8	0	0	1.0	0.75 CFM/SQ. FT.	2,278	0	2,500	0	0
GARAGE BAYS 106	EF-3,4	2,161	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.0	0.8	0	0	1.0	0.75 CFM/SQ. FT.	1,621	0	2,500	0	0
		5,198															0	5,000	0	0

ELECTRIC HEATER SCHEDULE

TAG	AREA(S) SERVED	DESCRIPTION	MOUNTING	CFM	WATTS	MBH	ELECTRICAL	AMPS	APPROX. DIMENSIONS	APPROX. UNIT WEIGHT (LBS)	BASIS OF DESIGN	NOTES
ECUH-1	STAIR S-1	CABINET UNIT HEATER	FLOOR / WALL	250	5000	17.1	208/3/60	15.0	35" L x 26-3/8" H x 9-3/4" D	120	QMARK CU93505203FF	2, 4
ECUH-2	STARI S-2	CABINET UNIT HEATER	FLOOR / WALL	250	5000	17.1	208/3/60	15.0	35" L x 26-3/8" H x 9-3/4" D	120	QMARK CU93505203FF	2, 4
ECH-1	ELEC. / UTILITY 208	FAN FORCED HEATER	CEILING	150	1500	5.1	120/1/60	12.5	15-3/8" L x 14-3/8" W x 3-3/4" H	25	QMARK EFF1500	1
ECH-2	CORRIDOR 104	FAN FORCED HEATER	CEILING	150	1500	5.1	120/1/60	12.5	15-3/8" L x 14-3/8" W x 3-3/4" H	25	QMARK EFF1500	1
ECH-3	TOILET ROOM 101	FAN FORCED HEATER	CEILING	150	1500	5.1	120/1/60	12.5	15-3/8" L x 14-3/8" W x 3-3/4" H	25	QMARK EFF1500	1
EUH-1	MECH. 210	HORIZONTAL FAN FORCED UNIT HEATER	HANGER RODS	575	7500	25.6	208/3/60	20.8	20" W x 13" H x 11" D	45	MARKEL F3FUH07C03	5

NOTES:
1. PROVIDE UNIT WITH ROUGH-IN BOX, T-BAR MOUNTING KIT AND UNIT MOUNTED DISCONNECT SWITCH.
2. PROVIDE UNIT WITH REPLACEABLE FILTERS.
3. PROVIDE UNIT WITH INTEGRAL FACTORY INSTALLED THERMOSTAT.
4. PROVIDE WITH FRONT INLET AND FRONT OUTLET.
5. PROVIDE WITH HANGER RODS AND DISCONNECT SWITCH.

ELECTRIC BASEBOARD HEATER SCHEDULE

TAG	LOCATION	LENGTH (IN)	OUTPUT (BTU/HR)	OUTPUT (WATTS)	ELECTRICAL (V/PH/HZ)	BASIS OF DESIGN	NOTES
EBBH-1	WOMEN'S TOILET ROOM 200b	36	2,040	600	208/1/60	MARKEL MODEL F2906-036SW	SEE BELOW
EBBH-2	MEN'S TOILET ROOM 200a	36	2,040	600	208/1/60	MARKEL MODEL F2906-036SW	SEE BELOW
EBBH-3	TOILET ROOM 202a	36	2,040	600	208/1/60	MARKEL MODEL F2906-036SW	SEE BELOW

NOTES:
1. HEATERS SHALL BE PROVIDED WITH INTEGRAL THERMOSTATS, OVERTEMPERATURE THERMAL LIMIT PROTECTION, AND WIREWAY COVERS.
2. COORDINATE FINISH TYPE AND COLOR WITH ARCHITECT/OWNER. PROVIDE BLANK SECTIONS AS REQUIRED.

DUCTLESS SPLIT SYSTEM SCHEDULE

TAG	ROOM SERVED	TYPE	TOTAL COOLING CAPACITY (BTU/HR)	DESIGN COOLING OUTDOOR TEMP DB (DEG. F.)	REFRIGERANT	INDOOR UNIT (SSAC)				OUTDOOR UNIT (SSCU)			ELECTRICAL V/PH/HZ	SEER2/EER2	BASIS OF DESIGN MANUFACTURER	NOTES
						CFM (High / Med High / Med / Low - Dry Coil)	APPROXIMATE UNIT DIMENSIONS (W x D x H)	WEIGHT (LBS)	MODEL NUMBER	APPROXIMATE UNIT DIMENSIONS (W x D x H)	WEIGHT (LBS)	MODEL NUMBER				
SSAC-1 / CU-1	ELECTRICAL ROOM	CEILING MOUNTED	18,000	95	R-454B	600 / 570 / 490 / 460	33-1/16" x 33-1/16" x 10-3/16"	46	PLA-AE18NL	34-19/646" x 11-13/16" x 24-13/16"	99	PUY-AK18NL	208-230/1/60	24.7/13.7	MITSUBISHI / TRANE	SEE BELOW

NOTES:
1. PROVIDE SYSTEM WITH WIRELESS REMOTE CONTROL, REFRIGERANT PIPING AND CHARGE, X87-721 CONDENSATE PUMP PACKAGE, ALL REQUIRED MOUNTING ACCESSORIES AND ALL OTHER ACCESSORIES REQUIRED TO INSTALL AND OPERATE UNITS.
2. PROVIDE SYSTEM WITH MLS141212T-100 LINESET, SERVICE VALVES, REFRIGERANT CHARGE AND FUSABLE DISCONNECT SWITCH.
3. NOMINAL COOLING CAPACITIES ARE BASED ON AN INDOOR COIL EAT OF 80/67 DB/WB (DEG. F.) AND AN OUTDOOR DB TEMP. OF 95 DEG. F.

REMINGTON & VERNICK ENGINEERS
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~ENGINEERING EXCELLENCE~

STATE OF NEW JERSEY — 24GA28047400 — LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

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CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY

CITY OF MARGATE

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		12" = 1'-0"
DATE: 12/13/2024			SHEET No.: M-6.1
JOB No.: 0116U200			

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ROOFTOP AIR CONDITIONER SCHEDULE 1 OF 2

TAG	LOCATION	TYPE	AREA(S) SERVED	DUCT CONNECTIONS	APPROX. UNIT DIM. (L" x W" x H")	APPROX. UNIT WEIGHT (LBS)	SUPPLY FAN SUPPLY AIR (CFM)	RETURN AIR (CFM)	OUTSIDE AIR (CFM)	SUPPLY FAN ESP (IN. W.C.)	MINIMUM MOTOR HP	DRIVE TYPE	DRIVE TYPE	DX COOLING (R-454B) NOMINAL TONNAGE	TOTAL CAPACITY (MBH) GROSS	SENSIBLE CAPACITY (MBH) GROSS	E.A.T. (DEG F DB)	E.A.T. (DEG F WB)	COIL L.A.T. (DEG F DB)	COIL L.A.T. (DEG F WB)	UNIT L.A.T. (DEG F DB)	UNIT L.A.T. (DEG F WB)	R-454 CHARGE (LBS)	COMPRESSOR STAGES	EER / IEER @ AHRI
RTU-1	ROOF	PACKAGED VAV, GAS HEAT	OFFICE AREAS	HORIZONTAL	123 x 87 x 66	2360	4,995	3,645	1,350	1.5	QTY. (2) X 3	ECM	VAV	15	174.7	131.6	78.5	65.5	54.0	53.6	56.2	54.5	12.8	VAR . 25% - 100%	12.4 / 23.4
RTU-2	ROOF	PACKAGED, GAS HEAT	STORAGE 209	HORIZONTAL	88.08 x 53.28 x 50.88	1115	2,150	1,845	305	1.5	3	ECM	SZVAV	5	60.1	49.2	76.8	64.2	54.0	53.9	56.1	54.8	7.9	2	16.4 SEER2

ROOFTOP AIR CONDITIONER SCHEDULE 2 OF 2

TAG	HOT GAS REHEAT E.A.T. (DEG F DB)	E.A.T. (DEG F WB)	DX COIL L.A.T. (DEG F DB)	DX COIL L.A.T. (DEG F WB)	HGRH L.A.T. (DEG F DB)	HGRH L.A.T. (DEG F WB)	LEAV. DEW PT (DEG F)	HGRH CAPACITY (MBH)	AMBIENT (DEG F DB)	INDIRECT GAS FIRED HEATER PERFORMANCE INPUT (MBH)	TOTAL OUTPUT CAPACITY (MBH)	EAT (DEG F)	LAT (DEG F)	MODULATING TURN DOWN	EFFICIENCY (%)	ELECTRICAL V / PH / HZ	MCA (AMPS)	MOP (AMPS)	BASIS OF DESIGN	NOTES
RTU-1	-	-	-	-	-	-	-	-	-	250	202.5	54.6	91.5	10:1	81%	208/3/60	95	125	TRANE YZK180A3SB	1, 2, 3, 4, 5, 6, 7 & 8
RTU-2	73	64	53.0	52.9	74.5	61.2	52.9	50.2	70	100	81	61.9	95.0	2 STG	81%	208/3/60	40	50	TRANE YHK060A3SA	1, 2, 3, 4, 5, 6, 7, 8, & 9

NOTES:
1. PROVIDE UNIT WITH 100% ENTHALPY CONTROLLED OUTSIDE AIR ECONOMIZER, DUCT MOUNTED POWER EXHAUST, HINGED ACCESS DOORS, THROW-AWAY FILTERS, OVERSIZED (HIGH STATIC) MOTOR, UNIT MOUNTED DISCONNECT SWITCH IN A NEMA 3R ENCLOSURE, AND CONVENTIONAL THERMOSTAT INTERFACE. CONTROLS TO INCLUDE ZONE SENSORS WITH PROGRAMMABLE NIGHT SETBACK, DIFFERENTIAL PRESSURE SWITCHES (FOR FAN STATUS AND "DIRTY" FILTER INDICATION), FREEZESTAT, AND ALL OTHER CONTROLLERS, DEVICES, ETC. AS REQUIRED TO OPERATE UNITS IN ACCORDANCE WITH THE DIVISION 15 SPECIFICATION "SEQUENCE OF OPERATIONS". COORDINATE CONTROLS WITH DIVISION 23 HVAC CONTROLS CONTRACTOR.
2. PROVIDE SOLID CORE LIQUID LINE FILTER DRIER.
3. PROVIDE WITH LOW AMBIENT COOLING DOWN TO ZERO DEGREES.
4. PROVIDE WITH 115V GFI CONVENIENCE OUTLET.
5. PROVIDE WITH CARBON DIOXIDE BASED DEMAND CONTROL VENTILATION OUTDOOR AIR CONTROL.
6. PROVIDE SLOPED ROOF CURB TO ACCOMMODATE PITCHED ROOF. COORDINATE THE ROOF SLOPE WITH THE ARCHITECTURAL DRAWINGS.
7. PROVIDE THE UNIT EXTERIOR WITH A 15,000 SALT SPRAY COATING. PROVIDE THE EVAPORATOR WITH A 23,000 HOUR SALT SPRAY COATING. PROVIDE THE CONDENSER COIL WITH A 5,000 HOUR SALT SPRAY COATING.
8. PROVIDE UNITS WITH R-454B AND LEAK DETECTION SYSTEMS AND MITIGATION SEQUENCES PER UL 60335-2-40.
9. PROVIDE WITH HOT GAS REHEAT FOR ACTIVE DEHUMIDIFICATION CONTROL.

DIFFUSER, REGISTER & GRILLE SCHEDULE

TAG	DESCRIPTION	FACE	NECK	DIRECTION	BASIS OF DESIGN MANUFACTURER	MODEL	NOTES
A	DIFFUSER	12" x 12"	6" DIA,	SUPPLY	TITUS	TMS-AA	1, 2, 3, 4 & 5
B	DIFFUSER	24" x 24"	6" DIA,	SUPPLY	TITUS	TMS-AA	1, 2, 3, 4 & 5
C	DIFFUSER	24" x 24"	8" DIA,	SUPPLY	TITUS	TMS-AA	1, 2, 3, 4 & 5
D	REGISTER	8" x 8"	8" x 8"	SUPPLY	TITUS	301FL	1, 2, 3, 4 & 5
E	REGISTER	18" x 8"	18" x 8"	SUPPLY	TITUS	301FL	1, 2, 3, 4 & 5
F	REGISTER	8" x 8"	8" x 8"	RETURN/EXHAUST	TITUS	350FL	1, 2, 3, 4 & 5
I	REGISTER	24" x 24"	22" x 22"	RETURN/EXHAUST	TITUS	350FL	1, 2, 3, 4 & 5
J	REGISTER	36" x 18"	36" x 18"	RETURN/EXHAUST	TITUS	350FL	1, 2, 3, 4 & 5
K	REGISTER	10" x 10"	10" x 10"	RETURN/EXHAUST	TITUS	350FL	1, 2, 3, 4 & 5

1. COORDINATE MOUNTING FRAME WITH CEILING/WALL TYPE.
2. COORDINATE COLOR & FINISH WITH OWNER.
3. NC (NOISE CRITERIA) LEVEL MAY BE NO GREATER THAN 25.
4. PROVIDE GRILLE WITH BORDER FLANGE FOR LAY-IN TYPE CEILINGS. SEE PLANS FOR LOCATIONS.
5. PROVIDE WITH ALUMINUM OPPOSED BLADE DAMPER.

LOUVER SCHEDULE

TAG	SERVICE	SYSTEM	AIRFLOW (CFM)	SIZE (W x H)	FREE AREA (SQ. FT.)	MATERIAL	FINISH	BASIS OF DESIGN	NOTES
L-1	EXHAUST	EF-1	1,250	36" x 12"	1.22	ALUMINUM	MILL	RUSKIN ELF6375DXH	SEE BELOW
L-2	EXHAUST	EF-2	1,250	36" x 12"	1.22	ALUMINUM	MILL	RUSKIN ELF6375DXH	SEE BELOW
L-3	EXHAUST	EF-3	1,250	36" x 12"	1.22	ALUMINUM	MILL	RUSKIN ELF6375DXH	SEE BELOW
L-4	EXHAUST	EF-4	1,250	36" x 12"	1.22	ALUMINUM	MILL	RUSKIN ELF6375DXH	SEE BELOW
L-5	O/A INTAKE	EF-1,2,3,4	5,000	48" x 40"	7.43	ALUMINUM	MILL	RUSKIN ELF6375DXH	SEE BELOW
L-6	EXHAUST	EF-13	400	18" x 12"	0.57	ALUMINUM	MILL	RUSKIN ELF6375DXH	SEE BELOW
L-7	O/A INTAKE	EF-13	400	18" x 12"	0.57	ALUMINUM	MILL	RUSKIN ELF6375DXH	SEE BELOW

NOTES:
1. PROVIDE WITH EXPANDED, FLATTENED ALUMINUM BIRD SCREEN (3/4" x 0.051") IN REMOVABLE FRAME.
2. PROVIDE LOUVER WITH MOTORIZED DAMPER AND ACTUATOR.
3. INTERLOCK LOUVER DAMPER ACTUATORS WITH ASSOCIATED EXHAUST FANS.
4. LOUVER SHALL BE HEAVY DUTY WITH A 0.125" NOMINAL FRAME AND BLADE THICKNESS.
5. PROVIDE LOUVER WITH BAKED ENAMEL FINISH. COORDINATE COLOR WITH OWNER.

EXHAUST FAN SCHEDULE

TAG	ROOM(S) SERVED	FAN TYPE	CFM	TOTAL S.P. (in. w.c.)	MOTOR HP OR WATTS	DRIVE TYPE	ELECTRICAL V/PH/HZ	SONES	ROOF / WALL OPENING SIZE	APPROXIMATE WEIGHT (LBS)	BASIS OF DESIGN	NOTES
EF-1	GARAGE BAYS 105	INLINE	1,250	0.5	1/3	DIRECT	208-1-60	9.4	NA	75	COOK 120SQN17D	1
EF-2	GARAGE BAYS 105	INLINE	1,250	0.5	1/3	DIRECT	208-1-60	9.4	NA	75	COOK 120SQN17D	1
EF-3	GARAGE BAYS 106	INLINE	1,250	0.5	1/3	DIRECT	208-1-60	9.4	NA	75	COOK 120SQN17D	1
EF-4	GARAGE BAYS 106	INLINE	1,250	0.5	1/3	DIRECT	208-1-60	9.4	NA	75	COOK 120SQN17D	1
EF-5	TOILET ROOM 202a	ROOF MOUNTED	150	0.25	1/6	BELT	120-1-60	4.6	13-1/2" x 13-1/2"	50	COOK 70C2B	3
EF-6	CEILING	WOMEN'S TOILET 200b	150	0.25	39.7	DIRECT	120-1-60	3.0	NA	20	COOK GC-322	2
EF-7	CEILING	MEN'S TOILET 200a	150	0.25	39.7	DIRECT	120-1-60	3.0	NA	20	COOK GC-322	2
EF-8	CEILING	SHOWER/LOKER 207a	150	0.25	39.7	DIRECT	120-1-60	3.0	NA	20	COOK GC-322	2
EF-9	CEILING	WOMENS 207	150	0.25	39.7	DIRECT	120-1-60	3.0	NA	20	COOK GC-322	2
EF-10	CEILING	MENS 206	150	0.25	39.7	DIRECT	120-1-60	3.0	NA	20	COOK GC-322	2
EF-11	CEILING	SHOWER/LOKER 206a	150	0.25	39.7	DIRECT	120-1-60	3.0	NA	20	COOK GC-322	2
EF-12	CEILING	TOILET ROOM 101	150	0.25	39.7	DIRECT	120-1-60	3.0	NA	20	COOK GC-322	2
EF-13	CEILING	MECH. 210	400	0.375	123	DIRECT	120-1-60	3.0	NA	30	COOK GC-622	2
EF-14	CEILING	JANITOR CLOSET 206b	150	0.25	39.7	DIRECT	120-1-60	3.0	NA	20	COOK GC-322	2
EF-15	ELEV E-1 SHAFT	WALL MOUNTED	250	0.25	1/3	DIRECT	208-1-60	9.4	NA	75	COOK 120SQN17D	1
EF-16	ELEV E-2 SHAFT	INLINE	250	0.25	1/3	DIRECT	208-1-60	9.4	NA	75	COOK GN422	1

NOTES:
1. PROVIDE FAN WITH UNIT MOUNTED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE (WITH INTEGRAL STARTER), INSULATED HOUSING, MOTOR COVER & BELT GUARD, ALUMINUM CONSTRUCTION, INLINE DISCHARGE CONFIGURATION, HANGING SPRING ISOLATORS AND RODS, FLEX DUCT CONNECTIONS, AND ALL OTHER ACCESSORIES REQUIRED TO INSTALL AND OPERATE THE EXHAUST FAN.
2. PROVIDE FAN WITH BACKDRAFT DAMPER, DISCONNECT SWITCH, FAN SPEED CONTROL, ALUMINUM GRILLE, VIBRATION ISOLATORS, ROOF JACK WITH INSECT SCREEN AND ALL OTHER ACCESSORIES REQUIRED TO INSTALL AND OPERATE THE EXHAUST FAN.
3. PROVIDE FAN WITH 14" HIGH ROOF CURB, BACKDRAFT DAMPER, AND UNIT MOUNTED DISCONNECT SWITCH WITH STARTER IN A NEMA 3R ENCLOSURE.

GAS-FIRED UNIT HEATER SCHEDULE

TAG	TYPE	LOCATION	APPROX. DIM (W x D x H)	WEIGHT (LBS)	FAN(S) AIRFLO (CFM)	FAN(S) MOTOR HP	ELECTRICAL MCA	ELECTRICAL FLA	ELECTRICAL V/Ph/Hz	NOMINAL OUTPUT (MBH)	NOMINAL INPUT (MBH)	EFFICIENCY	MIN GAS INLET (IN)	BASIS OF DESIGN	NOTES
GUH-1	VERTICAL	GARAGE BAYS 105	30" x 20-3/4" x 22-5/8"	110	1100	1/10	7.5	6.4	120/1/60	73.8	90	82%	1/2	TRANE GTNE009	SEE BELOW
GUH-2	VERTICAL	GARAGE BAYS 105	30" x 20-3/4" x 22-5/8"	110	1100	1/10	7.5	6.4	120/1/60	73.8	90	82%	1/2	TRANE GTNE009	SEE BELOW
GUH-3	VERTICAL	GARAGE BAYS 105	30" x 20-3/4" x 22-5/8"	110	1100	1/10	7.5	6.4	120/1/60	73.8	90	82%	1/2	TRANE GTNE009	SEE BELOW
GUH-4	VERTICAL	GARAGE BAYS 106	30" x 20-3/4" x 22-5/8"	110	1100	1/10	7.5	6.4	120/1/60	73.8	90	82%	1/2	TRANE GTNE009	SEE BELOW
GUH-5	VERTICAL	GARAGE BAYS 106	30" x 20-3/4" x 22-5/8"	110	1100	1/10	7.5	6.4	120/1/60	73.8	90	82%	1/2	TRANE GTNE009	SEE BELOW

NOTES:
1. PROVIDE WITH SUMMER-WINTER SWITCH, MOUNTING ACCESSORIES, THERMOSTAT AND ALL OTHER CONTROL DEVICES AND ACCESSORIES REQUIRED TO INSTALL AND OPERATE THE UNIT HEATERS.
2. PROVIDE WITH VENTING AS SHOWN ON THE CONTRACT DRAWINGS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES AND STANDARDS.
3. PROVIDE WITH LISTED VENT CAP.

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STATE OF NEW JERSEY · MICHAEL P. MELHARDT · 24GE04704500 · LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

TIMOTHY D. KOLODY
NJ PROFESSIONAL ENGINEER LIC. No. 51529

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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No.	REVISION	DATE	BY	CHK

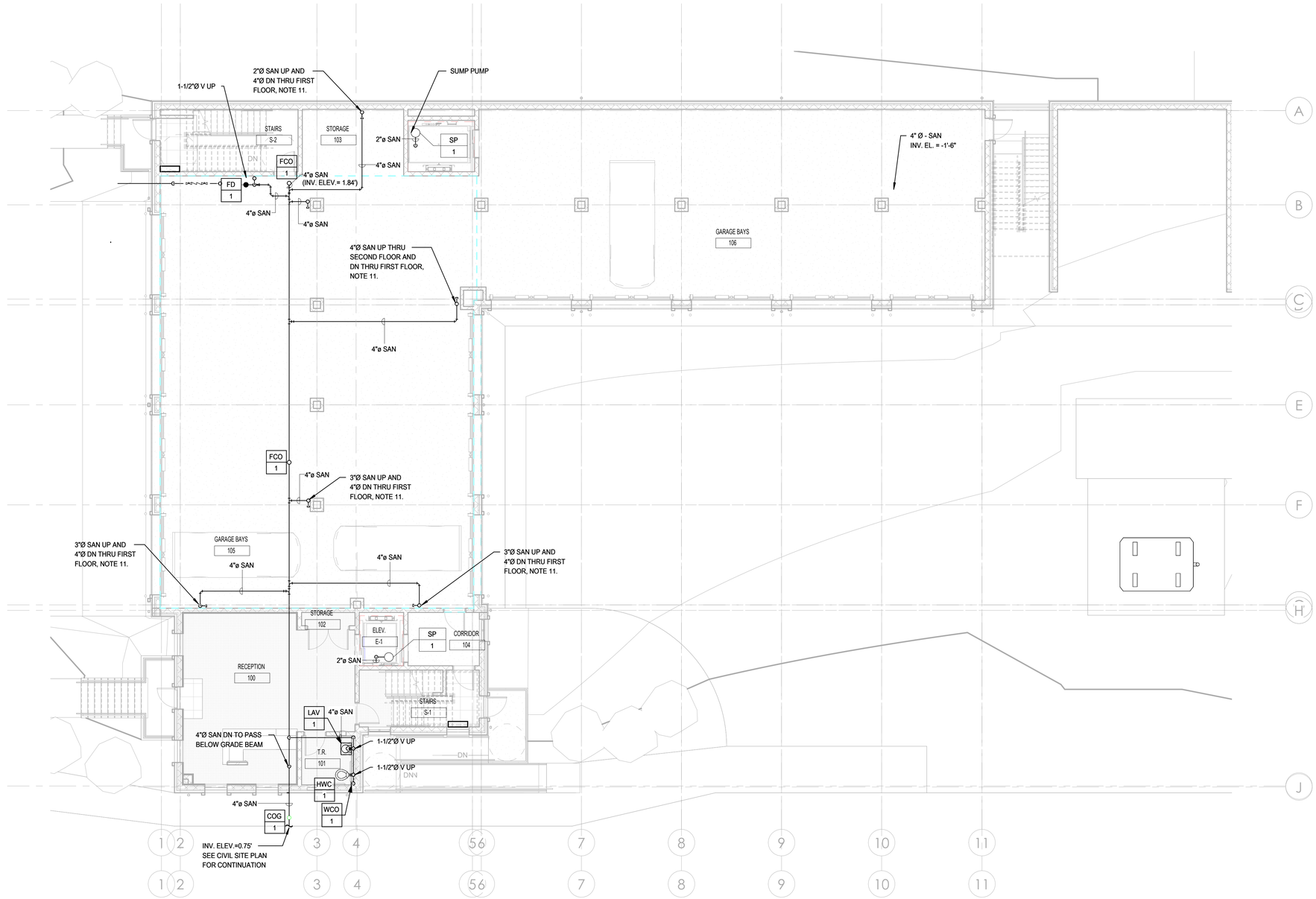
MECHANICAL SCHEDULES

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY

CITY OF MARGATE

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		12" = 1'-0"
DATE: 12/13/2024		SHEET No.:	
JOB No.: 0116U200		M-6.2	

Autodesk Docs://Margate Public Works Building/#0116U200 - MEP - 2026.rvt



1 PLUMBING DRAINAGE PIPING FIRST FLOOR PLAN

1/8" = 1'-0"

NOTES

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. ALL INVERTS SHOWN ARE APPROXIMATE. INVERT ELEVATION BASED AT GRADE ELEVATION OF 0.00'. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF THE BUILDING WITH RAISED FINISHED FLOOR ELEVATIONS. CONTRACTOR TO PROVIDE ALL WORK INCLUDING ALL SAWCUTTING, PIPING, AND ACCESSORIES, AS NECESSARY TO CORRECTLY INSTALL SANITARY PIPING.
3. ALL HORIZONTAL SANITARY PIPING LESS THAN 3 INCHES IN DIAMETER SHALL BE SLOPED A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL SANITARY PIPING 3 INCHES IN DIAMETER AND LARGER SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW.
4. INSULATE ALL EXPOSED NEW STORM, SANITARY, AND VENT PIPING. PAINT INSULATION JACKETING. COLOR TO BE APPROVED BY OWNER.
5. SANITARY DRAINAGE AND VENT PIPING SHALL BE CAST IRON, SEE SPECIFICATION SECTION 221316 FOR ADDITIONAL REQUIREMENTS.
6. CONTRACTOR SHALL ROUTE DRAINAGE RISERS AND VENT LINES IN THE WALLS WHERE SHOWN. WHERE PIPING CAN NOT BE LOCATED IN WALLS, AND FOR STORM AND SANITARY PIPING SHOWN EXPOSED IN THE SPACE, THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM VIEW. CHASE WALL AND FINISH TO MATCH SURROUNDING WALLS. COORDINATE ALL CHASE WALLS WITH ARCHITECT.
7. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES. RELOCATE PIPE TO ACCOMMODATE NEW DUCTWORK, CONDUIT, BUILDING STRUCTURE, ETC.
8. NOT ALL PIPE SIZES AND INLINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY PURPOSES. SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL REQUIREMENTS AND DETAILS. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, FITTINGS, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN OR RISER DIAGRAMS.
9. COORDINATE ALL INVERTS WITH SITE DRAWINGS, SITE CONTRACTOR, AND FIELD CONDITIONS PRIOR TO INSTALLING SANITARY PIPE.
10. PROVIDE WALL CLEANOUTS WITH ACCESS COVER AT FLOOR LEVEL FOR ALL STORM PIPING. PROVIDE CHASE TO CONCEAL STORM PIPING, NOTE 5.
11. PROVIDE A CLEANOUT AT THE BASE OF THE VERTICAL DRAIN.

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Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

STATE OF NEW JERSEY · MICHAEL P. GELHARDT · 24GA28047000 · LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

TIMOTHY D. KOLODY
NJ PROFESSIONAL ENGINEER LIC. No. 51529

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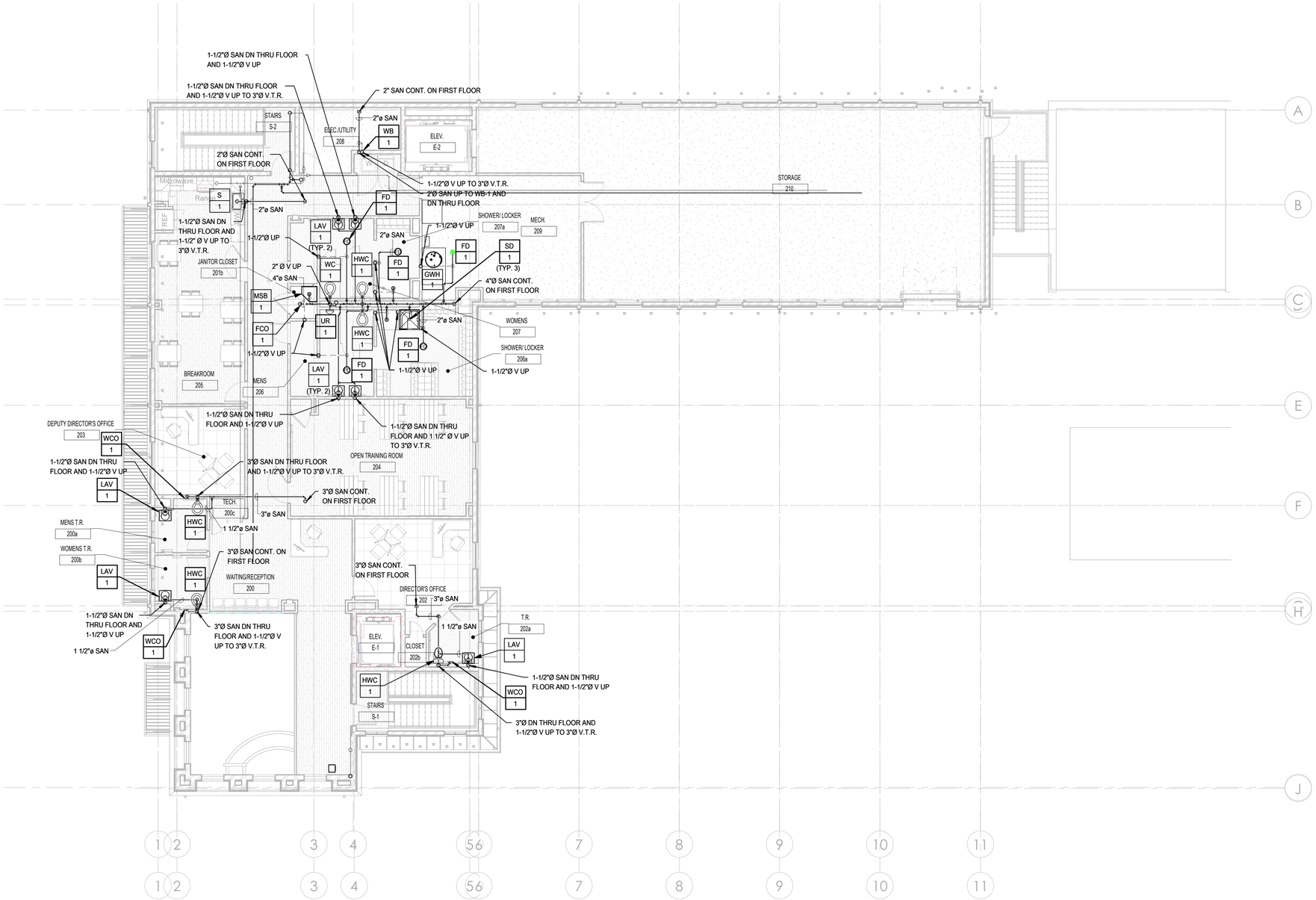
No.	REVISION	DATE	BY	CHK

PLUMBING DRAINAGE PIPING FIRST FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		1/8" = 1'-0"
DATE: 12/13/2024		SHEET No.: P-2.1	
JOB No.: 0116U200			

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1 PLUMBING DRAINAGE PIPING SECOND FLOOR PLAN

1/8" = 1'-0"

NOTES

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. ALL INVERTS SHOWN ARE APPROXIMATE. INVERT ELEVATION BASED ON FINISHED FLOOR ELEVATION OF 129.79'. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF THE BUILDING WITH RAISED FINISHED FLOOR ELEVATIONS. CONTRACTOR TO PROVIDE ALL WORK INCLUDING ALL SAWCUTTING, PIPING, AND ACCESSORIES, AS NECESSARY TO CORRECTLY INSTALL SANITARY PIPING.
3. ALL HORIZONTAL STORM AND SANITARY PIPING LESS THAN 3 INCHES IN DIAMETER SHALL BE SLOPED A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL STORM AND SANITARY PIPING 3 INCHES IN DIAMETER AND LARGER SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW.
4. INSULATE ALL EXPOSED NEW STORM, SANITARY, AND VENT PIPING. PAINT INSULATION JACKETING. COLOR TO BE APPROVED BY OWNER.
5. SANITARY DRAINAGE, VENT AND STORM PIPING SHALL BE CAST IRON, SEE SPECIFICATION SECTION 221422 AND 221316 FOR ADDITIONAL REQUIREMENTS.
6. CONTRACTOR SHALL ROUTE DRAINAGE RISERS AND VENT LINES IN THE WALLS WHERE SHOWN. WHERE PIPING CAN NOT BE LOCATED IN WALLS, AND FOR STORM AND SANITARY PIPING SHOWN EXPOSED IN THE SPACE, THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM VIEW. CHASE WALL AND FINISH TO MATCH SURROUNDING WALLS. COORDINATE ALL CHASE WALLS WITH ARCHITECT.
7. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES. RELOCATE PIPE TO ACCOMMODATE NEW DUCTWORK, CONDUIT, BUILDING STRUCTURE, ETC.
8. NOT ALL PIPE SIZES AND INLINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY PURPOSES. SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL REQUIREMENTS AND DETAILS. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, FITTINGS, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN OR RISER DIAGRAMS.
9. COORDINATE ALL INVERTS WITH SITE DRAWINGS, SITE CONTRACTOR, AND FIELD CONDITIONS PRIOR TO INSTALLING SANITARY PIPE.
10. PROVIDE WALL CLEANOUTS WITH ACCESS COVER AT FLOOR LEVEL FOR ALL STORM PIPING. PROVIDE CHASE TO CONCEAL STORM PIPING, NOTE 5.
11. WHERE A VERTICAL SECTION OF STORM PIPING IS SMALLER THAN THE PRECEDING HORIZONTAL PIPE SECTION, THE REDUCTION ON SIZE SHALL BE MADE IN THE VERTICAL PIPE SECTION.

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DATE: 07/16/2026

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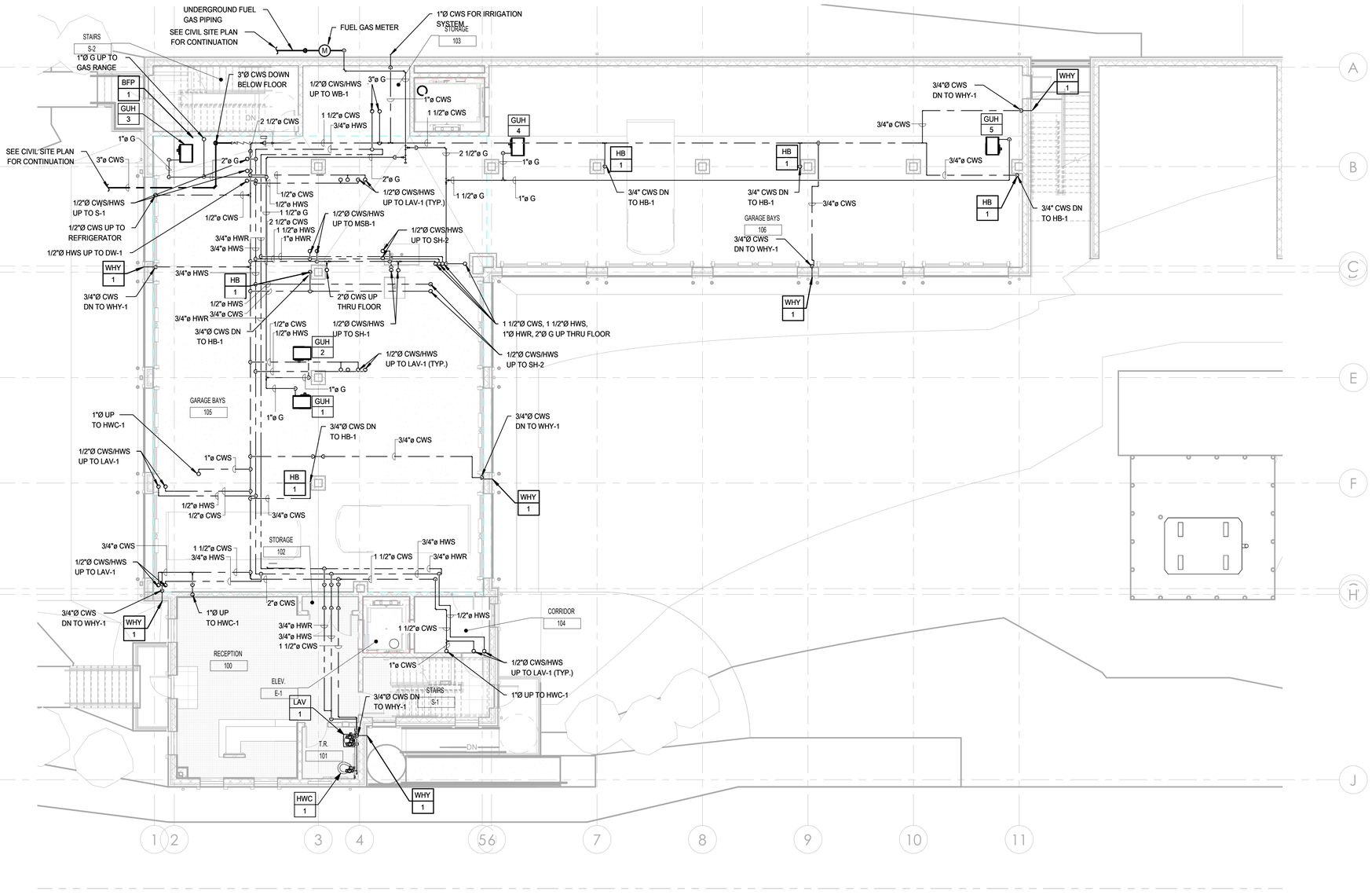
No.	REVISION	DATE	BY	CHK

PLUMBING DRAINAGE PIPING SECOND FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		1/8" = 1'-0"
DATE: 12/13/2024		SHEET No.: P-2.2	
JOB No.: 0116U200			

Associate Docs.Navigant Public Works Building\0116U200 - MEP - 2025.rvt



1 PLUMBING UTILITY PIPING FIRST FLOOR PLAN

1/8" = 1'-0"

NOTES

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES.
3. NOT ALL PIPE SIZES AND IN-LINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY, SEE THE RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, VALVES, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN, RISER, OR DETAIL DRAWINGS PROVIDE LINE SIZE SHUT-OFF VALVES IN BRANCH LINES WHERE BRANCH LINES CONNECT TO MAINS.
4. PROVIDE LINE SIZE SHUT-OFF VALVES IN BRANCH LINES WHERE BRANCH LINES CONNECT TO MAINS.
5. CONTRACTOR SHALL ROUTE UTILITY AND DRAINAGE PIPING ABOVE CEILINGS, BELOW FLOORS, AND IN WALLS AS SHOWN, UNLESS OTHERWISE NOTED. WHEN PIPING CAN NOT BE LOCATED IN WALLS, THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM VIEW. CHASE WALL MATERIAL AND FINISH TO MATCH THE SURROUNDING WALLS. COORDINATE CHASE WALLS WITH ARCHITECT. ROUTE UTILITY MAINS AS CLOSE TO THE ROOF DECK AS POSSIBLE. ROUTE PIPE THROUGH OPEN WEB JOIST WHERE POSSIBLE.
6. DOMESTIC WATER PIPING SHALL BE COPPER TUBE. SEE CONTRACT SPECIFICATION SECTION 221116.
7. PIPING IS SHOWN FOR CLARITY AND DIAGRAMMATICAL PURPOSES. CONTRACTOR SHALL COORDINATE FINAL LAYOUT AND INSTALLATION OF PIPING IN FIELD AND COORDINATE WITH OTHER TRADES AS REQUIRED. ALL PIPING INSTALLATIONS SHALL BE IN ACCORDANCE WITH APPLICABLE PLUMBING CODES AND STANDARDS.
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10. FUEL GAS PIPING SHALL BE STEEL PIPE. SEE CONTRACT SPECIFICATION SECTION 231123.
11. PROVIDE 1/2"Ø CWS PIPING WITH INLET ISOLATION VALVE TO TRAP PRIMER UNIT.

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Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

STATE OF NEW JERSEY · MICHAEL P. GELHARDT · 24GA28003300 · LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

TIMOTHY D. KOLODY
NJ PROFESSIONAL ENGINEER LIC. No. 51529

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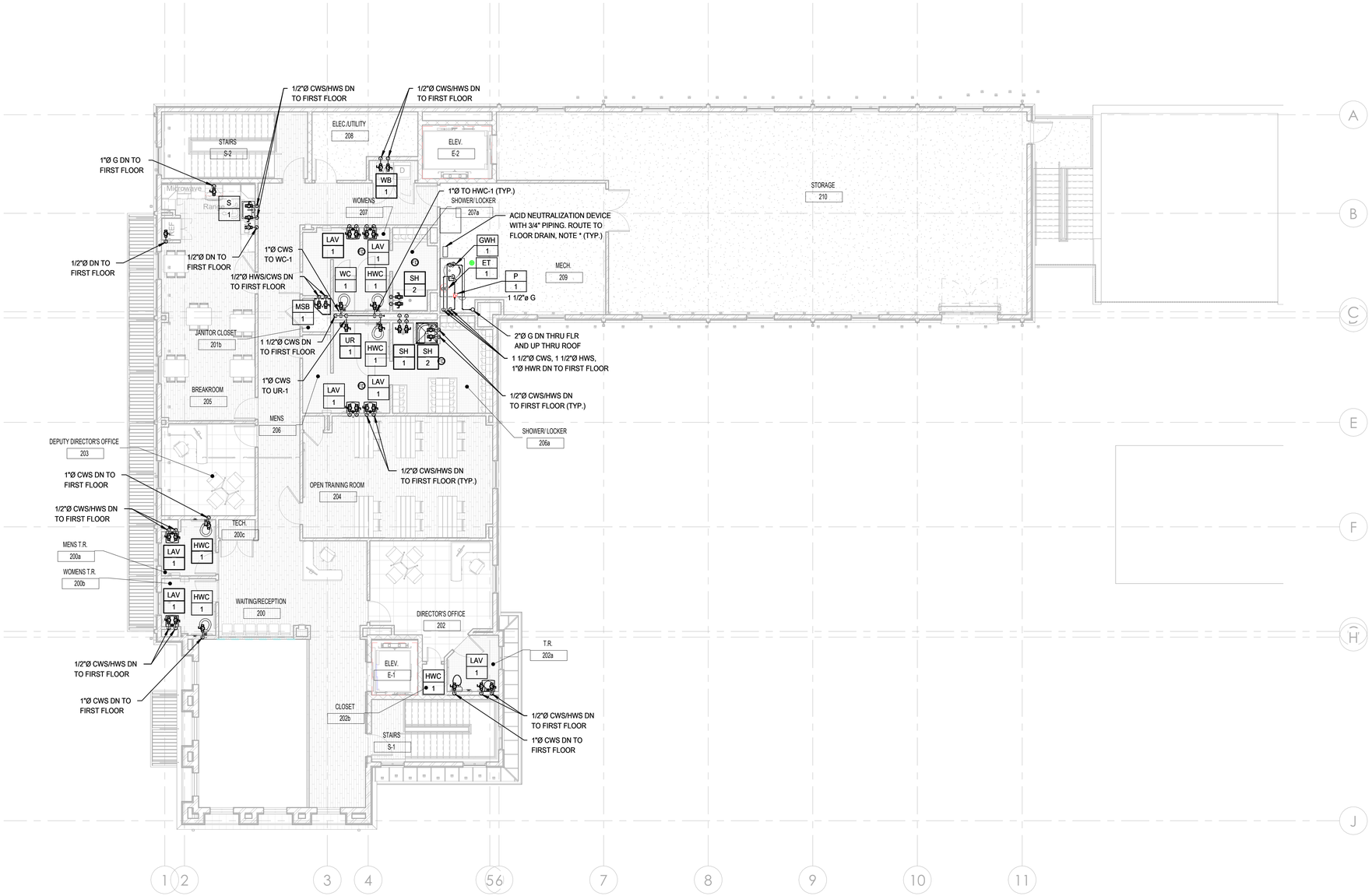
No.	REVISION	DATE	BY	CHK

PLUMBING UTILITY PIPING FIRST FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		1/8" = 1'-0"
DATE: 12/13/2024		SHEET No.: P-3.1	
JOB No.: 0116U200			

Autodesk Docs://Margate Public Works Building/0116U200 - MEP - 2025.rvt



1 PLUMBING UTILITY PIPING SECOND FLOOR PLAN

1/8" = 1'-0"

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DATE: 07/16/2026

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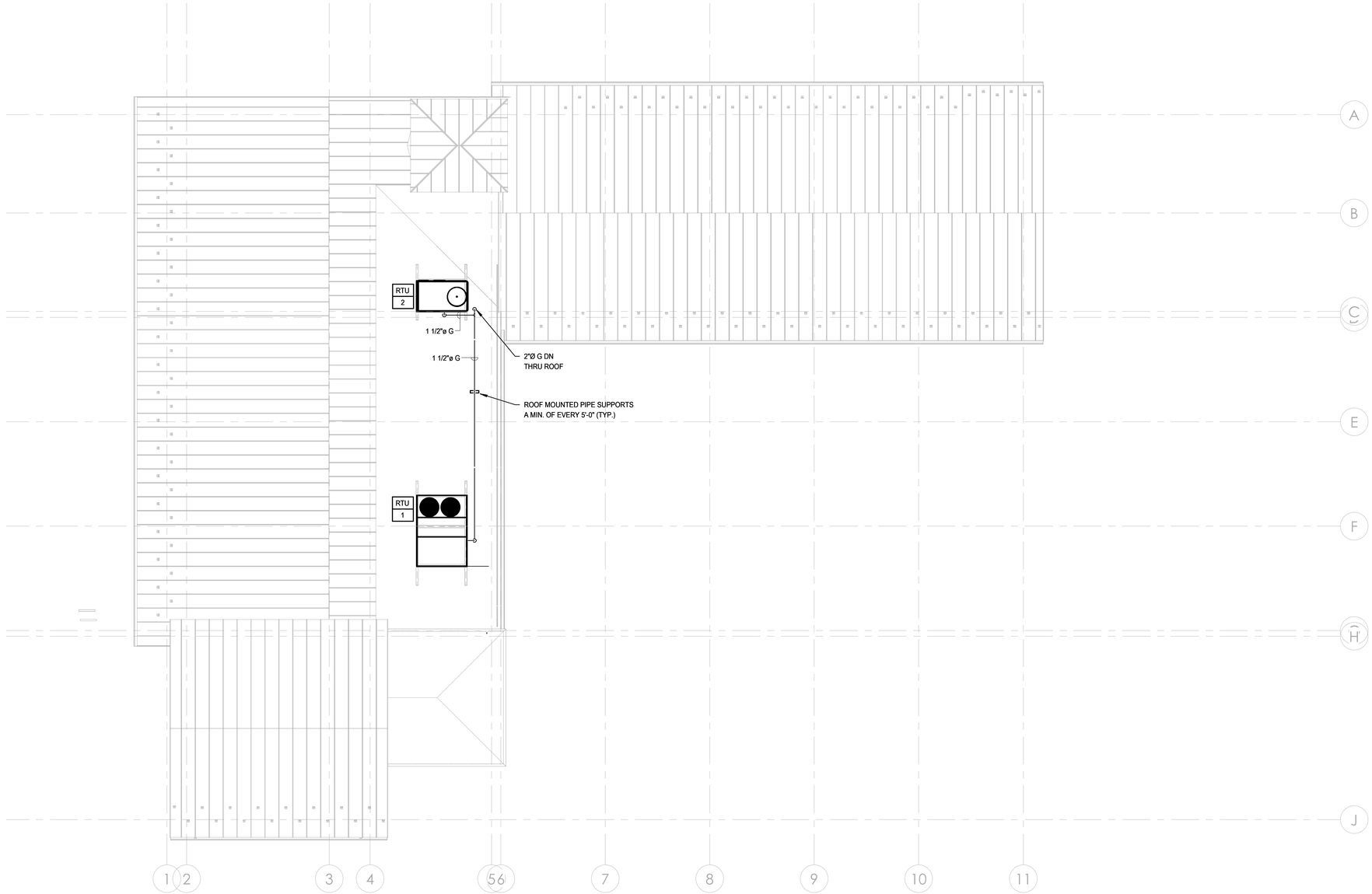
PLUMBING UTILITY PIPING SECOND FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		1/8" = 1'-0"

DATE: 12/13/2024
JOB No.: 0116U200
SHEET No.: P-3.2

Autodesk Docs://Margate Public Works Building/0116U200 - MEP - 2025.rvt



1 PLUMBING UTILITY PIPING ROOF PLAN

1/8" = 1'-0"

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DATE: 07/16/2026

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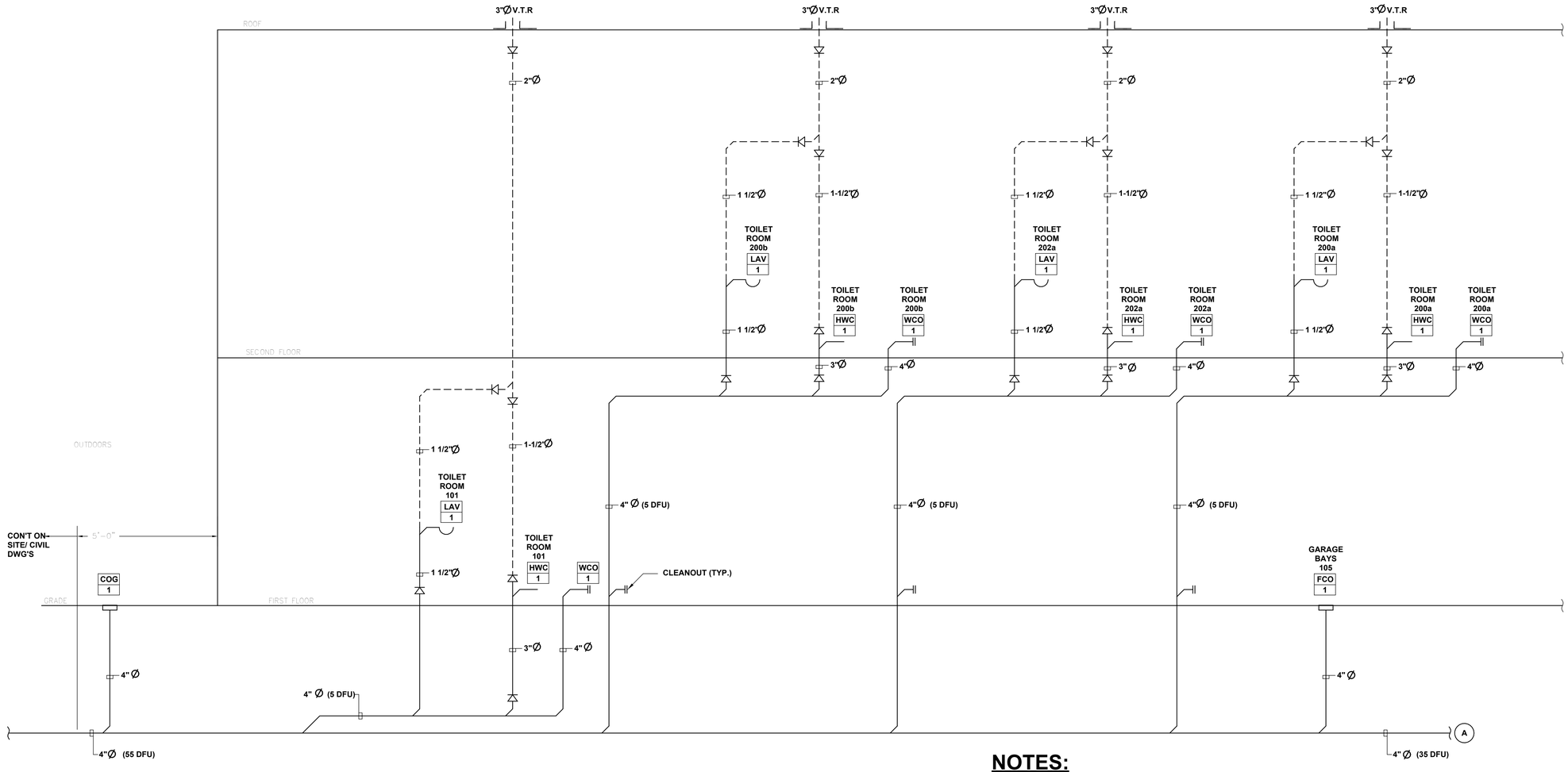
PLUMBING UTILITY PIPING ROOF PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		1/8" = 1'-0"

DATE: 12/13/2024
JOB No.: 0116U200
SHEET No.: P-3.3

Assistant Docs:Margate Public Works Building\0116U200 - M&P - 2025.rvt



1 PLUMBING SANITARY PIPING RISER DIAGRAM

SCALE: N.T.S.

NOTES:

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5. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND MODIFY PIPING LAYOUT AS NECESSARY TO AVOID INTERFERENCES. PROVIDE PLUMBING WORK IN ACCORDANCE WITH 2021 NATIONAL STANDARD PLUMBING CODE.
6. IF OFFSETS ARE REQUIRED IN VERTICAL PIPING TO AVOID INTERFERENCES. PROVIDE OFFSET USING 45° FITTINGS. 90° ELBOW FITTINGS SHALL NOT BE USED UNLESS PROVIDED IN ACCORDANCE WITH THE 2018 NATIONAL STANDARD PLUMBING CODE.
7. ALL HORIZONTAL DRAINAGE PIPING 3 INCHES IN DIAMETER AND SMALLER SHALL BE SLOPED A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL DRAINAGE PIPING 4 INCHES IN DIAMETER AND LARGER SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW.

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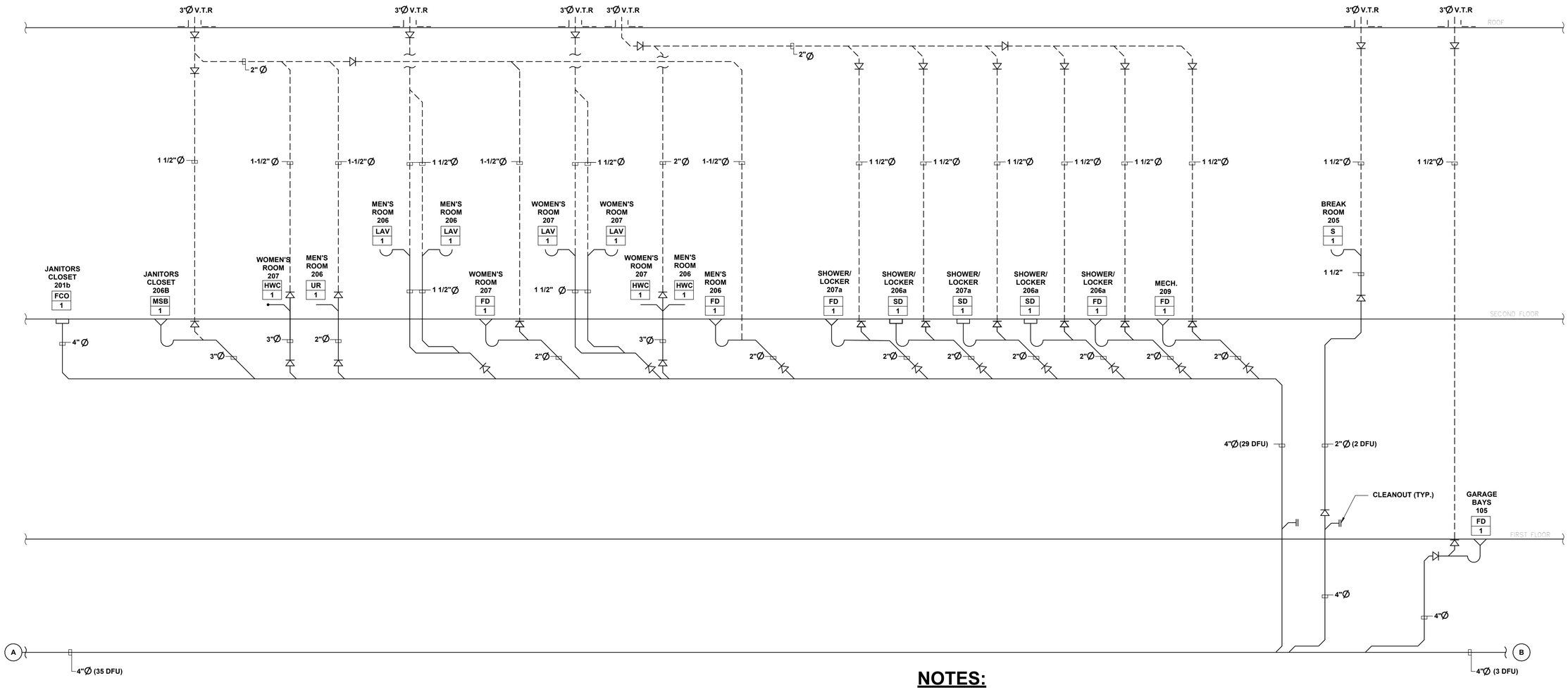
PLUMBING SANITARY RISER DIAGRAM

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY

CITY OF MARGATE

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		
DATE: 12/13/2024		SHEET No.: P-4.1	
JOB No.: 116U200			

Autodesk Docs://Margate Public Works Building/P1160200 - MEP - 2020.rvt



1 PLUMBING SANITARY PIPING RISER DIAGRAM

SCALE: N.T.S.

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RVE
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STATE OF NEW JERSEY — MICHAEL P. GELHARDT — 24GA28047000 — LICENSED PROFESSIONAL ENGINEER

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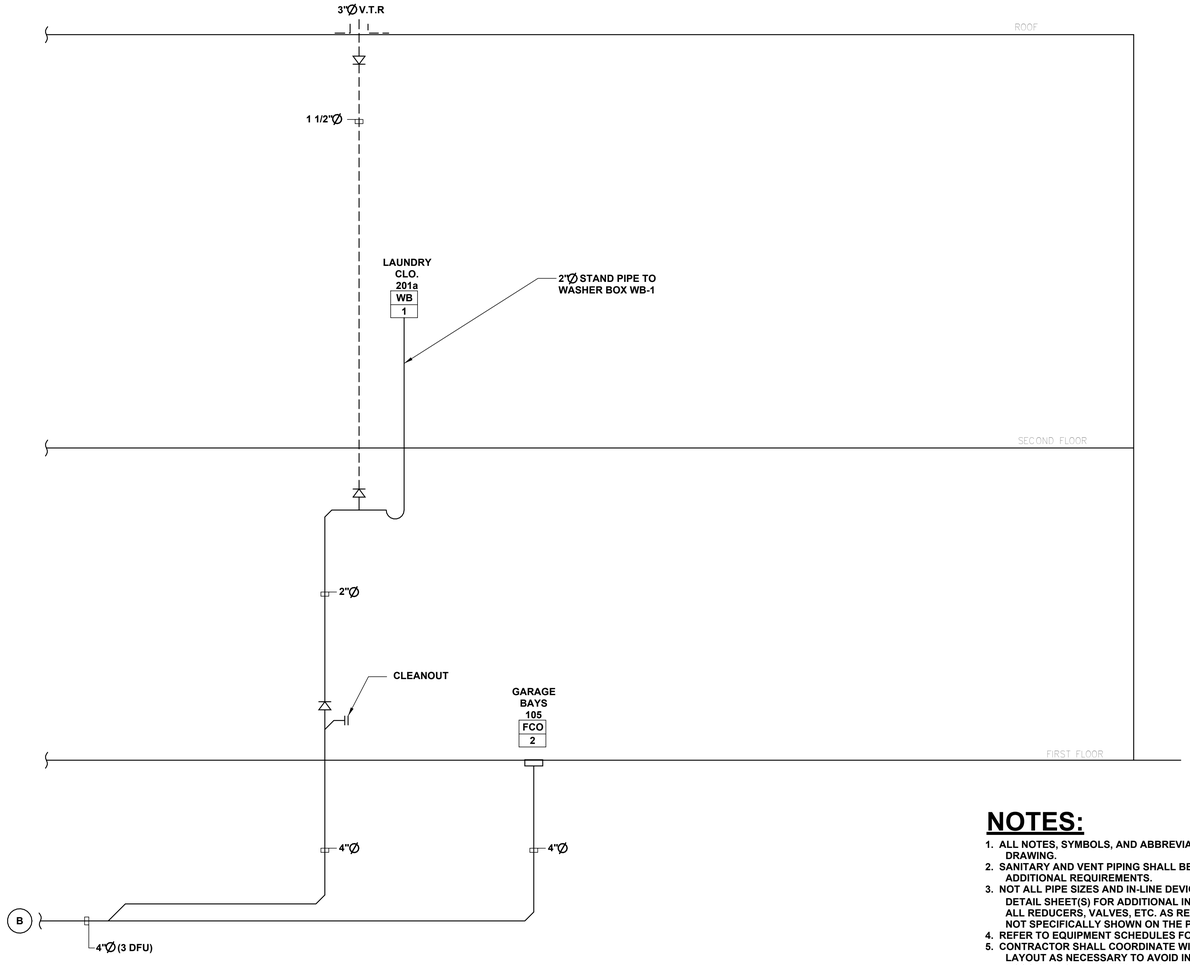
PLUMBING SANITARY RISER DIAGRAM

CITY OF MARGATE
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DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		

DATE: 12/13/2024
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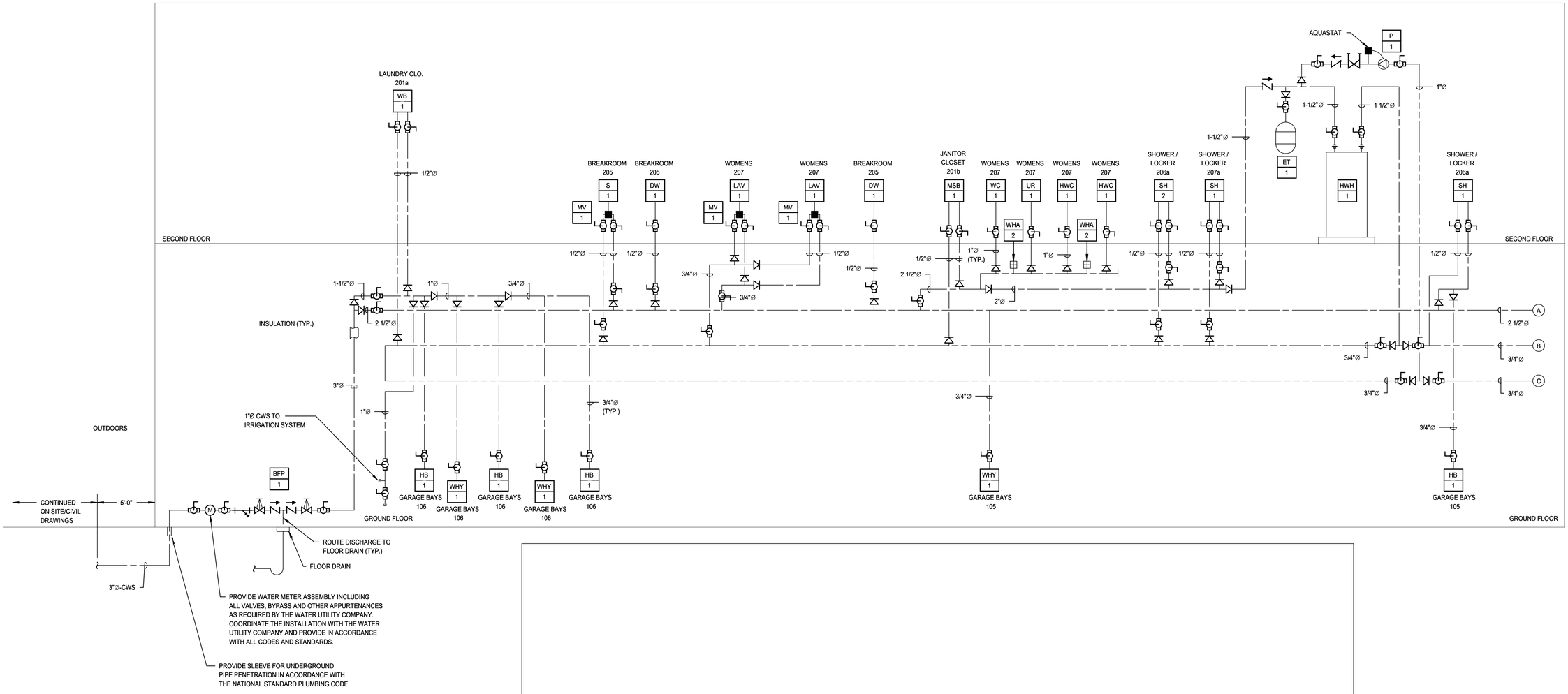
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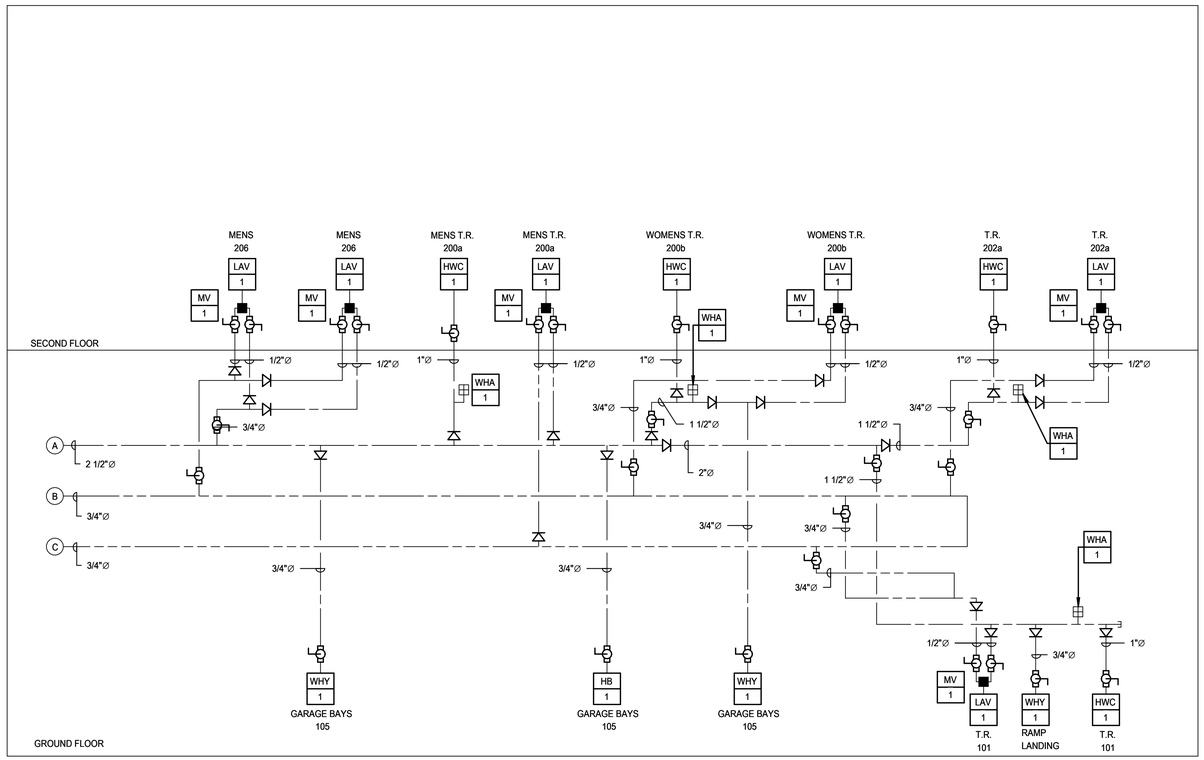
CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY
CITY OF MARGATE

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M.G.	M.G.		

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SHEET No.: P-4.3

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1 PLUMBING UTILITY PIPING RISER DIAGRAM

N.T.S.

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REMINGTON & VERNICK **ENGINEERS**
2059 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
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WEB SITE ADDRESS: WWW.RVE.COM
Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

STATE OF NEW JERSEY — MICHAEL P. MELHARDT — 24GA50470 — LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

TIMOTHY D. KOLODY
NJ PROFESSIONAL ENGINEER LIC. No. 51529

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No.	REVISION	DATE	BY	CHK

PLUMBING UTILITY RISER DIAGRAM

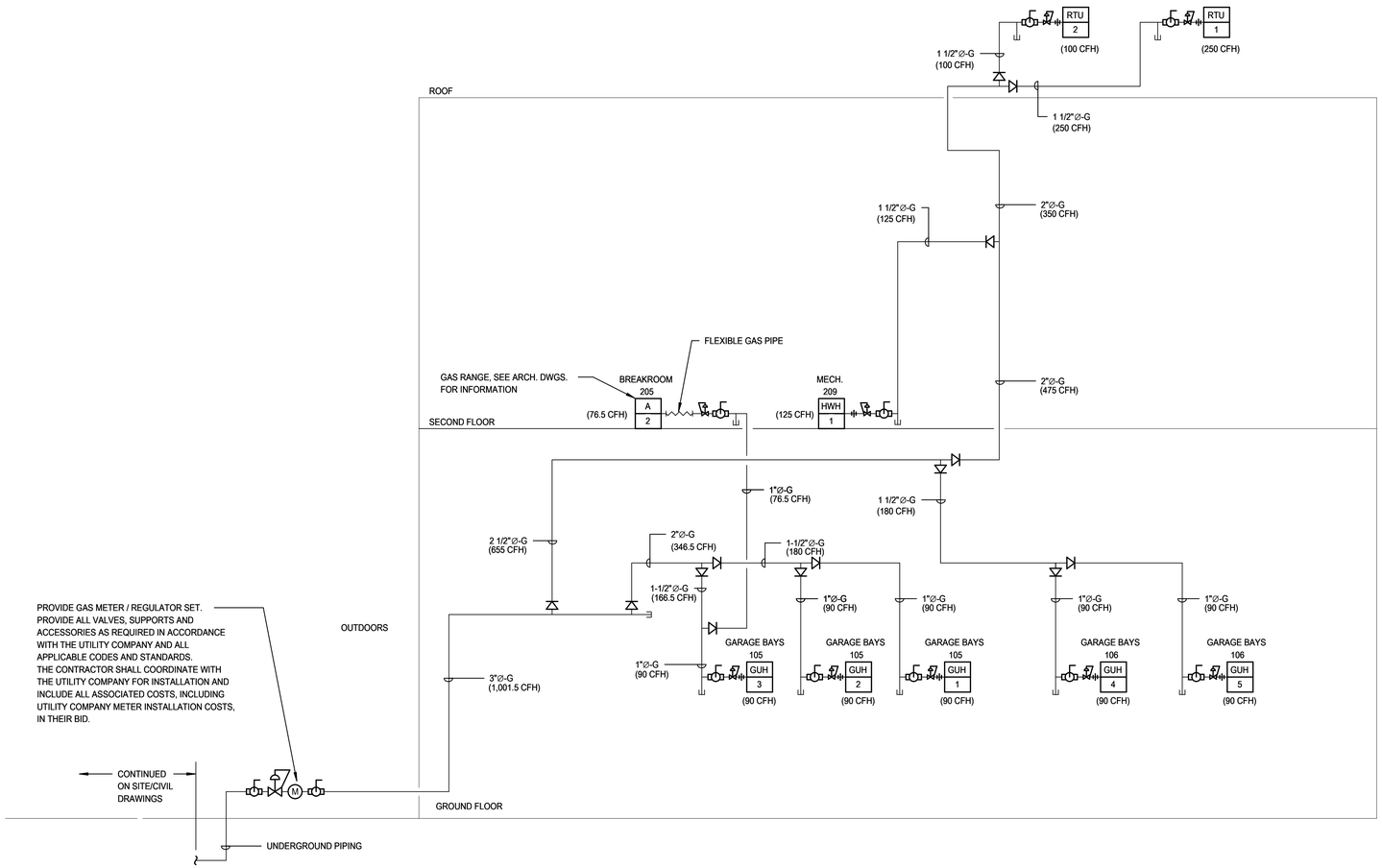
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NEW JERSEY

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1 PLUMBING FUEL GAS PIPING RISER DIAGRAM

N.T.S.

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. EQUIVALENT LENGTH TO THE FARTHEST FIXTURE = 250 FT.
3. NATURAL GAS PIPING DOWNSTREAM OF THE METER SIZED FOR AN INLET PRESSURE OF 2 PSI OR LESS WITH A 0.3" W.C. PRESSURE DROP IN ACCORDANCE WITH TABLE 402.4(1) IN THE 2021 INTERNATIONAL FUEL GAS CODE.
4. PROVIDE PRESSURE REGULATING VALVE TO REDUCE THE FUEL GAS PRESSURE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
5. FUEL GAS PIPING SHALL BE PAINTED STEEL PIPE. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.

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STATE OF NEW JERSEY · MICHAEL P. MELHARDT · 24GA27047600 · LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

TIMOTHY D. KOLODY
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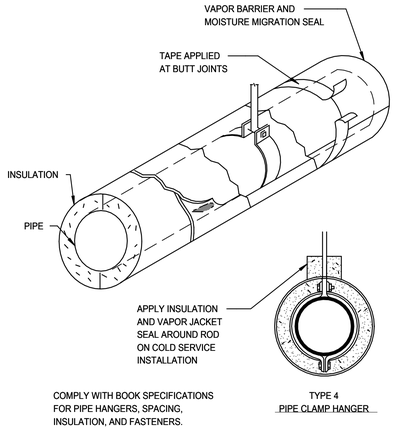
PLUMBING NATURAL GAS RISER DIAGRAM

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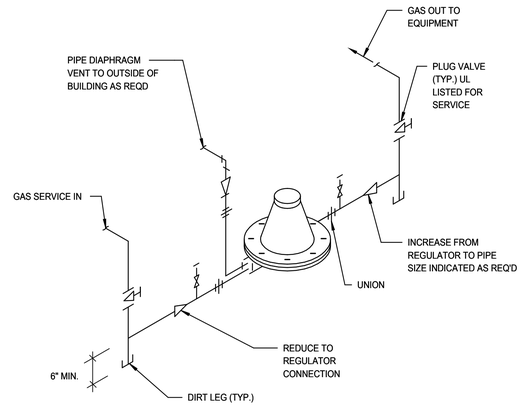
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SHEET No.: P-4.5

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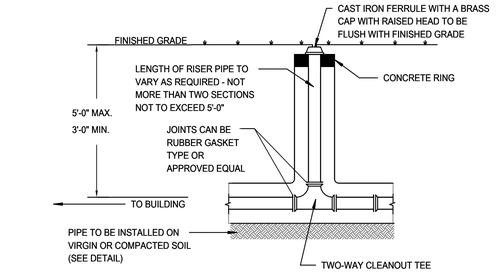
7 HANGER INSULATION AND VAPOR JACKET DETAIL

12" = 1'-0"



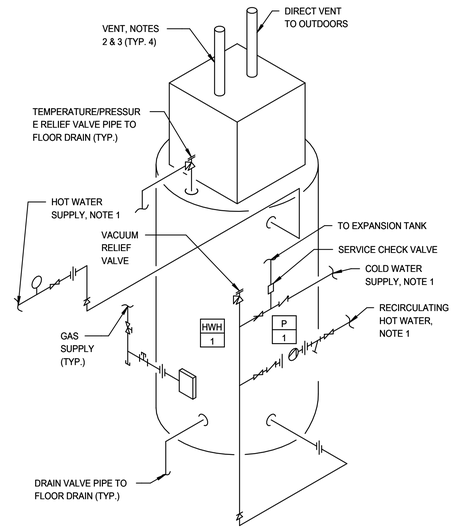
5 GAS PRESSURE REDUCING STATION

12" = 1'-0"



1 CLEANOUT TO GRADE DETAIL

12" = 1'-0"

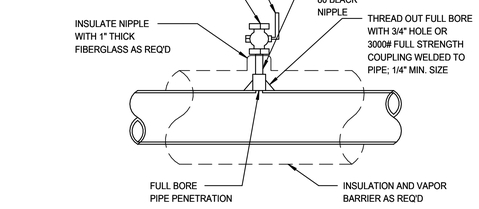


NOTES:

1. SEE PLANS AND RISER DIAGRAMS FOR CONTINUATION.
2. PROVIDE MANUFACTURER SUPPLIED VENT TERMINALS.
3. VENTING MATERIAL AS RECOMMENDED BY MANUFACTURER.

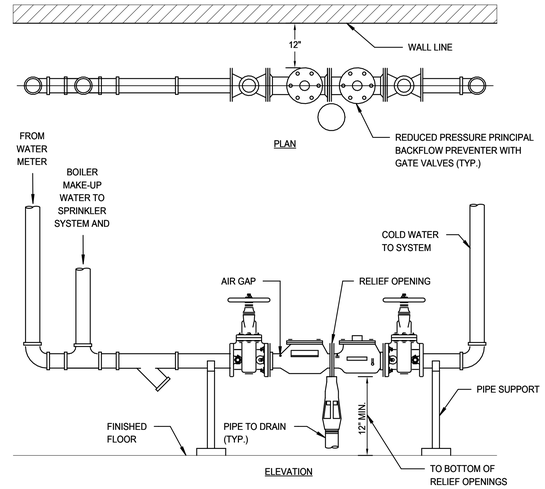
8 HOT WATER SYSTEM PIPING

12" = 1'-0"



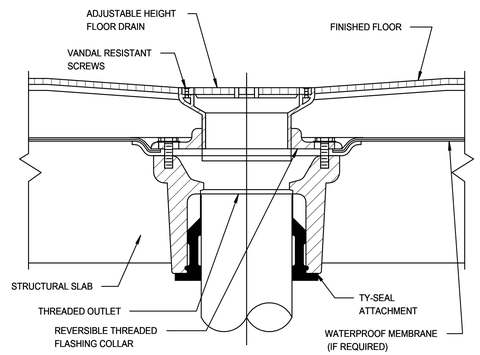
6 GAUGE COCK INSTALLATION

12" = 1'-0"



2 DOMESTIC WATER BACKFLOW PREVENTER DETAIL

12" = 1'-0"



3 FLOOR DRAIN DETAIL

12" = 1'-0"

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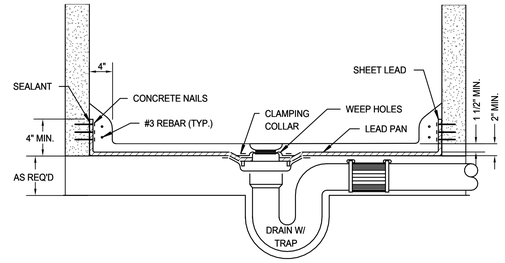
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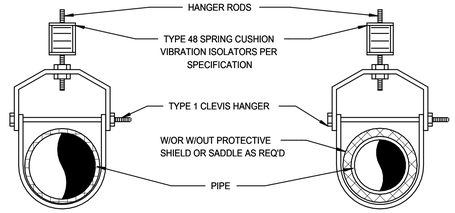
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JOB No.: 0116U200			

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7 SHOWER DRAIN PAN AND TRAP

12" = 1'-0"

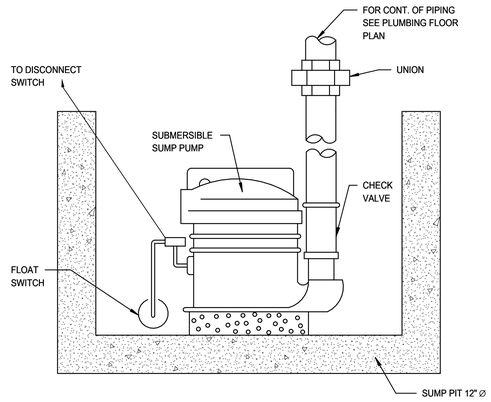


NOTES:

1. INSTALL PLUMB.
2. BORE OF WASHER OR SPRING RETAINER TO BE SAME SIZE AS ROD.
3. WELD WASHER OR SPRING RETAINER TO ROD.

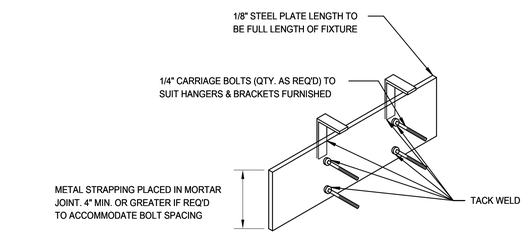
8 SINGLE PIPE TYPE 1 CLEVIS HANGER

12" = 1'-0"



9 SUMP PUMP DETAIL

12" = 1'-0"

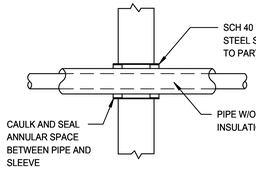


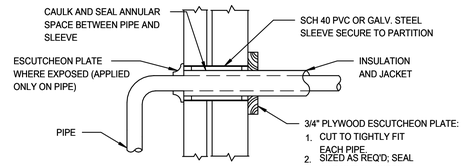
10 URINAL BACKUP PLATE

12" = 1'-0"

NOTE:

WHERE PIPING IS EXPOSED AT FINISH WALLS, FLUSH MOUNT SLEEVE AND PROVIDE ESCUTCHEON PLATE.



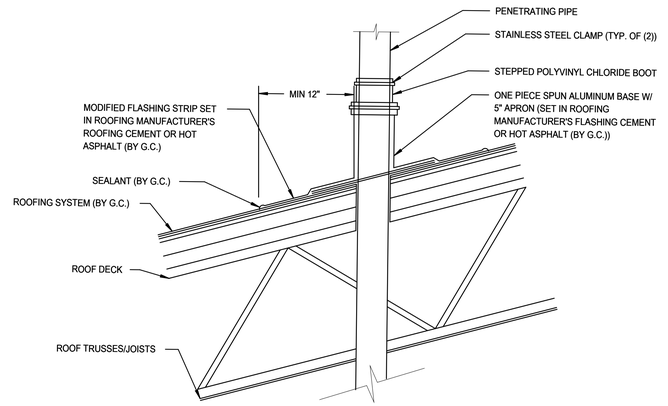


NOTES:

1. TYP. FOR NON-INSULATED PIPE AND CONDUIT.
2. TYP. FOR MASONRY OR CONCRETE WALL.
3. FIRE RATED WALLS MUST BE SEALED W/ APPROPRIATE FIRE RETARDED CAULKING.
4. ESCUTCHEONS ARE MADE TO FIT PIPE ONLY.

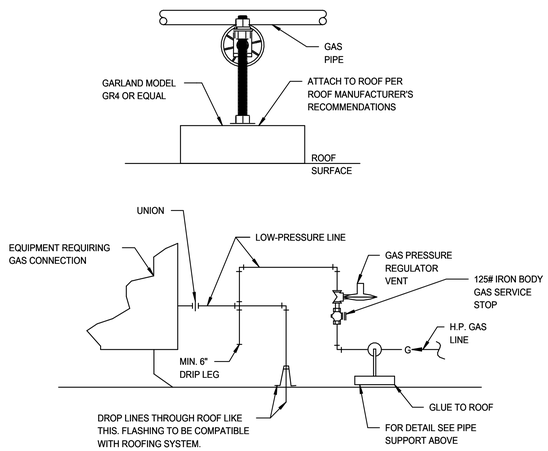
4 PIPE PENETRATION THUR WALLS

12" = 1'-0"



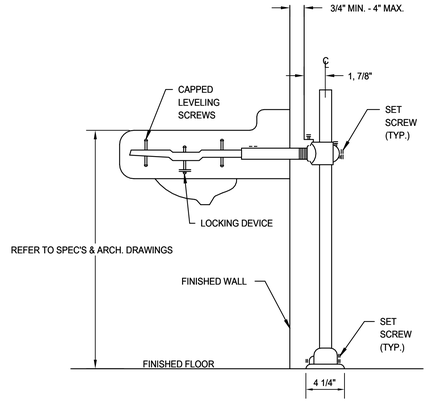
5 PIPING ROOF PENETRATION DETAIL

12" = 1'-0"



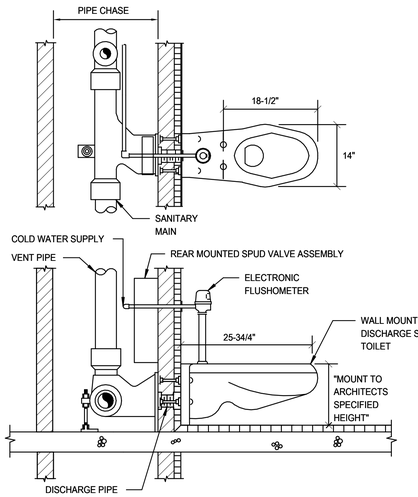
6 ROOF TOP GAS PIPING SUPPORT AT EQUIPMENT

12" = 1'-0"



1 LAVATORY MOUNTING DETAIL

12" = 1'-0"

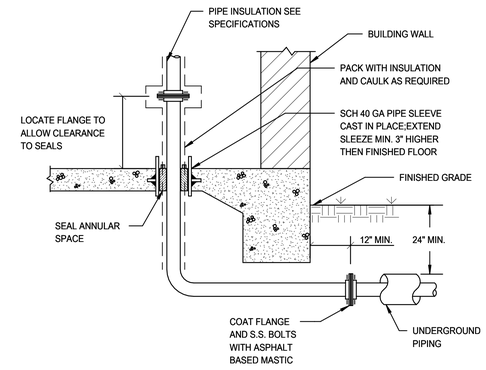


NOTE:

ALL PIPING FOR WC AND UR IS TO BE BEHIND WALL. FIXTURES ARE TO HAVE INFRARED HANDS FREE ACTUATION. SEE SPECIFICATIONS FOR WORK.

2 WALL MOUNTED WATER CLOSET

12" = 1'-0"



3 PIPE PENETRATION THRU CONCRETE FLOOR DETAIL

12" = 1'-0"

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PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	DESCRIPTION	MANUF.	MODEL	ACCESSORY	ACCESSORY	MINIMUM CONNECTION SIZE (in.)				WATER SUPPLY	DRAINAGE FIXTURE
							COLD	HOT	DRAIN	VENT	FIXTURE UNITS (WSFU's)	UNITS (DFU's)
BFP-1	BACKFLOW PREVENTER	REDUCED PRESSURE ZONE ASSEMBLY	WATTS	LF909	WATTS	QT, S (STRAINER)	3	N/A	N/A	N/A	N/A	N/A
COG-1	CLEANOUT	OUTDOOR, CLEANOUT ON GRADE	ZURN	Z1474	ZURN	G-VP	N/A	N/A	LINE	N/A	N/A	N/A
FCO-1	CLEANOUT	HEAVY DUTY ADJUSTABLE FLOOR CLEANOUT	ZURN	Z1400	ZURN	ZN, VP	N/A	N/A	LINE	N/A	N/A	N/A
FD-1	FLOOR DRAIN	SQUARE CAST IRON FLOOR DRAIN	ZURN	Z415B	ZURN	ZN, VP, 8" DIA. STRAINER, DEEP SEAL TRAP, TRAP SEAL PROTECTION DEVICE	N/A	N/A	2	1 1/2	N/A	0.0
HB-1	HOSE BIBB	NO-KINK COPPER ALLOY BRONZE HOSE BIBB	NIBCO	HOSE BIBB	WATTS	SERIES 8 VACUUM BREAKER	3/4	N/A	N/A	N/A	2.5	N/A
HWC-1	WATER CLOSET	ADA WALL MOUNTED WATER CLOSET W/ BATTERY SENSOR FLUSH VALVE	ZURN	Z5615-BWL	ZURN	Z5610-NUT-EXT-KIT, Z1201 CARRIER, Z5955SS-EL ELONGATED STANDARD WHITE OPEN FRONT SEAT ZURN ZER6000AV-TM FLUSH VALVE WITH BATTERY OPERATED SENSOR	1	N/A	3	1 1/2	5.0	4.0
LAV-1	LAVATORY SINK	WALL MOUNTED LAVATORY, 4" CENTER FAUCET HOLES	ZURN	Z5314	ZURN	Z8743-PC GRID STRAINER, Z8946-1-NT ADA TRAP- STOP-SUPPLY PROTECTORS, Z8800 FLEXIBLE SUPPLIES CONCEALED ARM CARRIER, ZURN Z6915-XL-W2 4" CENTERSET BATTERY POWERED SENSOR FAUCET	1/2	1/2	1 1/2	1 1/2	1.0	1.0
MSB-1	MOP SERVICE BASIN	PRECAST TERRAZZO W/6" DROP FRONT, CORNER CONFIGURATION	FIAT	TSBC1611	FIAT	FIAT 830-AA, 832-AA, & 889-CC; ZURN Z843M1-XL FAUCET	1/2	1/2	3	1 1/2	3.0	3.0
MV-1	MIXING VALVE	THERMOSTATIC POINT OF USE MIXING VALVE	LEONARD	MODEL 270-LF	N/A	N/A	1/2	1/2	N/A	N/A	N/A	N/A
UR-1	URINAL	1.0 GPF WALL HUNG URINAL W/ BATTERY SENSOR FLUSH VALVE	ZURN	Z5730	ZURN	ZURN ZTR6203-WS1 1.0 GPF BATTERY OPERATED SENSOR FLUSH VALVE W/OVERRIDE BUTTON, FLANGE AND STRAINER, MOUNTING BRACKET/CARRIER	1	N/A	2	1 1/2	4.0	4.0
S-1	SINK	STAINLESS STEEL UNDERMOUNT SINGLE BOWL SINK	ELKAY	ELUH231710	ELKAY	LK99 DRAIN, MOUNTING ACCESSORIES, LKD2433 FAUCET	1/2	1/2	1 1/2	1 1/2	1.5	2.0
SD-1	SHOWER DRAIN	CAST IRON SHOWER DRAIN	ZURN	FD2254-PV2-R5	ZURN	PB	N/A	N/A	1 1/2	1 1/2	N/A	2.0
SH-1	SHOWER	INDIVIDUAL FLUSH MOUNTED WALL SHOWER	ZURN	Z7301-SS-MT	ZURN	ZURN Z7000-S5 SHOWER HEAD	1/2	1/2	N/A	N/A	2.0	0.0
SH-2	SHOWER	INDIVIDUAL ADA WALL SHOWER	ZURN	Z7300-SS-MT	ZURN	IN-LINE VACUUM BREAKER, VB	1/2	1/2	N/A	N/A	2.0	0.0
SP-1	SUMP PUMP	CAST ALUMINUM, 1/4 HP MOTOR	LITTLE GIANT	5.5-ASPA	N/A	N/A	N/A	N/A	1 1/2	N/A	N/A	N/A
WB-1	WASHER BOX	WASHING MACHINE OUTLET BOX W/ WATER HAMMER ARRESTOR	GUY GRAY	WB200HA		G90 HOT DIPPED GALVANIZED STEEL CONSTRUCTION, 20 GAUGE BOX WITH 20 GAUGE FACEPLATE	1/2	1/2	2	1 1/2	4.0	3.0
WC-1	WATER CLOSET	WALL MOUNTED WATER CLOSET W/ BATTERY SENSOR FLUSH VALVE	ZURN	Z5615-BWL	ZURN	Z5610-NUT-EXT-KIT, Z1201 CARRIER, Z5955SS-EL ELONGATED STANDARD WHITE OPEN FRONT SEAT, ZURN ZER6000AV-TM FLUSH VALVE WITH BATTERY OPERATED SENSOR	1	N/A	3	1 1/2	5.0	4.0
WCO-1	WALL CLEAN OUT	WALL CLEAN OUT TEE AND COVER	ZURN	Z1441	ZURN	ZB-VP	N/A	N/A	LINE	N/A	N/A	N/A
WHA-1	WATER HAMMER ARRESTOR	INLINE WATER HAMMER ARRESTOR	WILKINS/ZURN	1250XL-B	N/A	N/A	3/4	N/A	N/A	N/A	N/A	N/A
WHA-2	WATER HAMMER ARRESTOR	INLINE WATER HAMMER ARRESTOR	WILKINS/ZURN	1250XL-C	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A
WHY-1	WALL HYDRANT	BOX TYPE NON-FREEZE WALL HYDRANT W/VACUUM BREAKER	ZURN	Z1300	ZURN	CL, PB, RK, (SEE DWGS. FOR WALL THICKNESS), EXTRA OPERATING KEY	1/2	N/A	N/A	N/A	2.5	N/A

NOTES
1. COLOR/FINISH TO BE AS APPROVED BY THE ARCHITECT/OWNER.
2. PROVIDE ALL ACCESSORIES REQUIRED TO OPERATE AND INSTALL FIXTURES. INSTALL FIXTURES IN ACCORDANCE WITH THE MANUFACTURES RECOMMENDATIONS AND ALL APPLICABLE CODES. COORDINATE FIXTURE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
3. PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTORS AS RECOMMENDED BY MANUFACTURER.
4. PROVIDE MIXING VALVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. LOCATE IN ACCESSIBLE LOCATION, PROVIDE ACCESS PANEL AS REQUIRED.

GAS DOMESTIC HOT WATER HEATER SCHEDULE

TAG	LOCATION	MANUF.	MODEL	GAS INPUT (BTU/HR)	CAPACITY (GALS.)	THERMAL EFFICIENCY	RECOVERY @ 100 °F (GAL/HR)	FLUE VENT SIZE (IN.)	COMB. AIR INLET SIZE (IN.)	COLD WATER INLET (IN.)	HOT WATER OUTLET (IN.)	GAS CONN. (IN.)	NOTES
GWH-1	MECH/JAN.	LOCHINVAR	SWR125 N	125,000	65	96%	145	3	3	1-1/2	1-1/2	1	1

NOTES: 1. PROVIDE WITH LOW-WATER CUT-OFF, INTEGRATED CONTROL WITH LCD DISPLAY, ALARM CONTACTS, MANUAL RESET HIGH LIMIT, DIRECT VENT SYSTEM, CONDENSATE NEUTRALIZATION KIT AND ALL OTHER ACESSORIES REQUIRED BY THE MANUFACTURER.

RECIRCULATION PUMP SCHEDULE

TAG	SERVICE	TYPE	FLUID TYPE	FLOW (gpm)	TDH (ft)	MOTOR HP	MOTOR RPM	ELEC. (V/Hz/ph)	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	NOTES
RP-1	DOMESTIC HOT WATER	CIRCULATOR	WATER	10	50	1/2	3700	208-230/60/1	BELL & GOSSETT	ECOCIRC XL 55-45	1

NOTES: 1. PROVIDE WITH BALANCING VALVE, CONTROLS, DISCONNECT SWITCH AND STARTER.

EXPANSION TANKS

TAG	TANK VOLUME (GAL)	MAX. ACCEP. FACTOR	MAX. WORKING PRESSURE (PSIG)	TANK DIA. (IN)	TANK LENGTH (IN)	APPROX. TANK WEIGHT (100% FULL) (LBS)	MANUFACTURER & MODEL NUMBER	NOTES
ET-1	8	0.64	150	12	19	41	AMTROL ST-20VC	1

NOTES:
1. FINAL TANK SIZE TO BE AS APPROVED BY THE MANUFACTURER.

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Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

STATE OF NEW JERSEY — 24GA51529 — LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

TIMOTHY D. KOLODY
NJ PROFESSIONAL ENGINEER LIC. No. 51529

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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No.	REVISION	DATE	BY	CHK

PLUMBING SCHEDULES

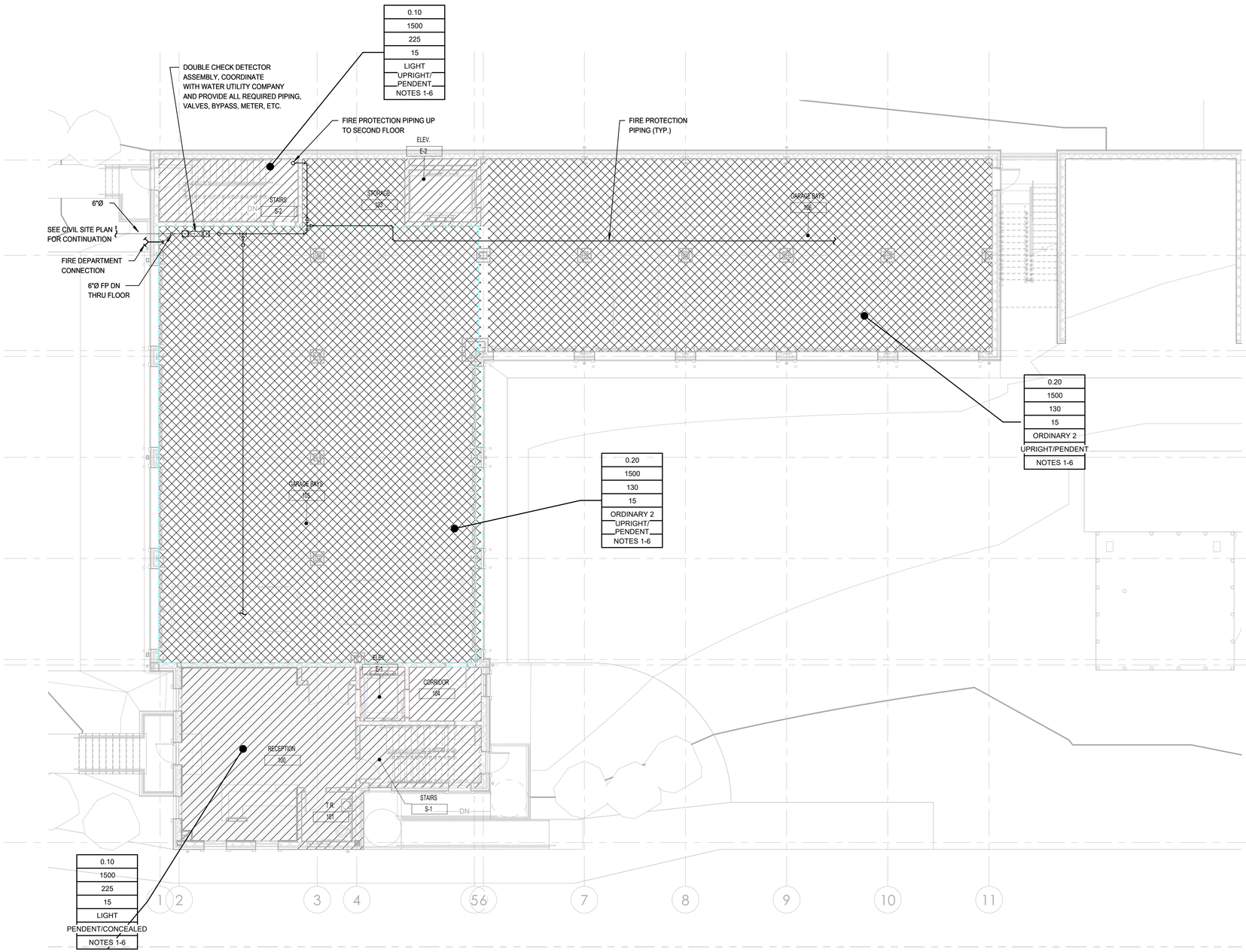
CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY

CITY OF MARGATE

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		12" = 1'-0"

DATE: 12/13/2024
JOB No.: 0116U200
SHEET No.: P-6.1

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1 FIRE PROTECTION FIRST FLOOR PLAN

1/8" = 1'-0"

LEGEND

XXX	SPRINKLER DENSITY-(GPM/FT2)
XXX	AREA OF SPRINKLER OPERATION (FT2)
XXX	MAX COVERAGE AREA PER SPRINKLER (FT)
XXX	MAX SPACING (FT)
XXX	NFPA CLASSIFICATION
XXX	SPRINKLER TYPE
XXX	NOTES

LIGHT HAZARD

ORDINARY 1 HAZARD

ORDINARY 2 HAZARD

EXTRA HAZARD 1

FIRE PROTECTION - LEGEND

1/8" = 1'-0"

NOTES

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. ALL PIPE SIZES SHOWN ON THE DRAWING ARE MINIMUM PIPE SIZES. FIRE PROTECTION CONTRACTOR SHALL SIZE PIPING BASED ON HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA AND SPECIFICATIONS. PRIOR TO PERFORMING HYDRAULIC CALCULATIONS, THE CONTRACTOR SHALL PERFORM A FLOW TEST IN ACCORDANCE WITH NFPA TO DETERMINE STATIC AND RESIDUAL PRESSURES AND CAPACITIES. COORDINATE FLOW TEST WITH LOCAL AUTHORITIES.
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6. FIRE DEPARTMENT LOCATION AND THREAD TYPE SHALL BE AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION. COORDINATE BFP, VALVES, ALARMS, ETC INSTALLATION WITH LOCAL AUTHORITY HAVING JURISDICTION.
7. PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS IN IDF/ SERVER ROOM.

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~ENGINEERING EXCELLENCE~

STATE OF NEW JERSEY · MICHAEL P. GELHARDT · 25470 · LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

TIMOTHY D. KOLODY
NJ PROFESSIONAL ENGINEER LIC. No. 51529

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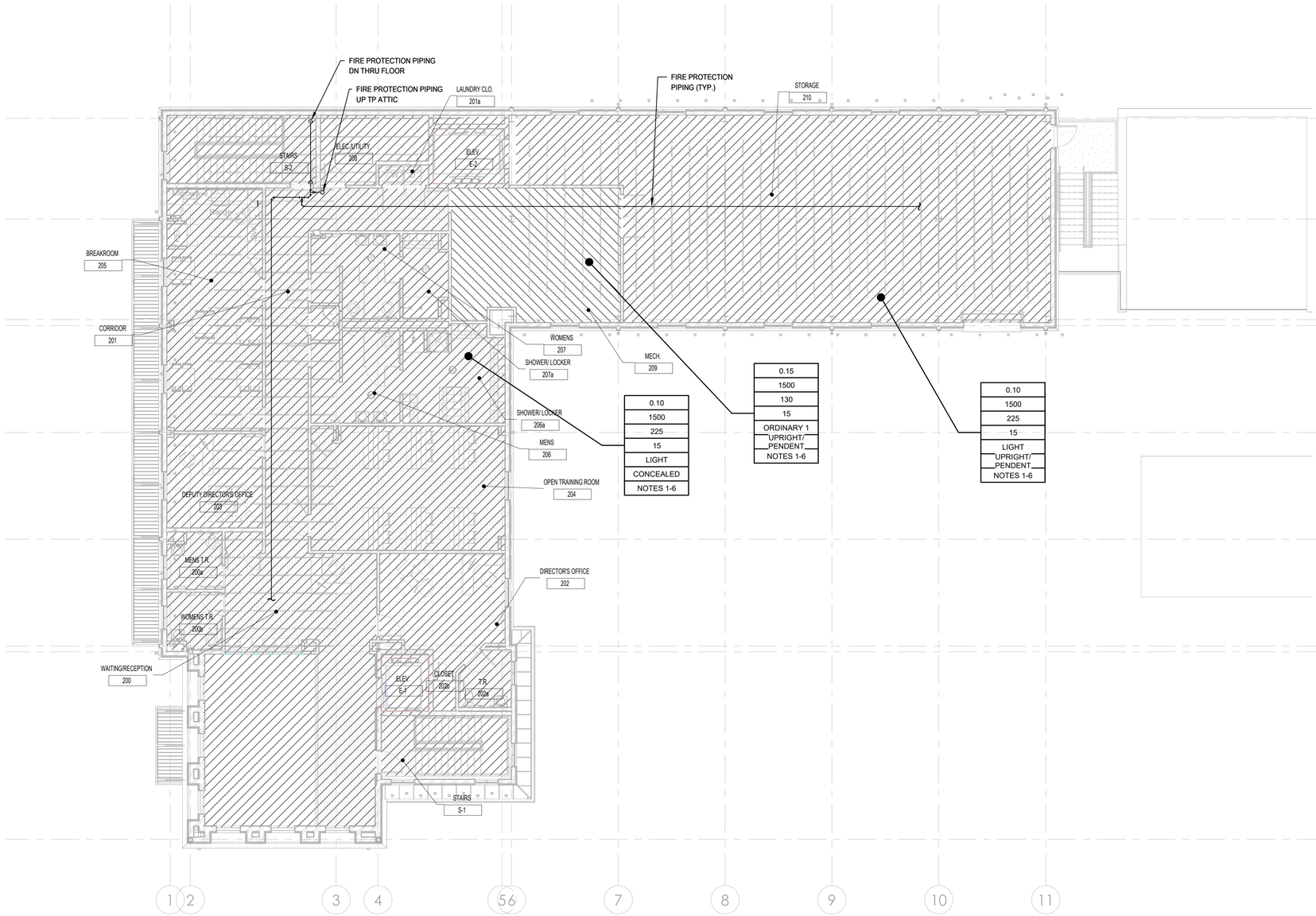
FIRE PROTECTION FIRST FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		As indicated

DATE: 12/13/2024
JOB No.: 0116U200
SHEET No.: FP-2.1

Assistant Docs.Margate Public Works Building\01160200 - MEP - 2025.rvt



1 FIRE PROTECTION SECOND FLOOR PLAN

1/8" = 1'-0"

LEGEND

XXX	SPRINKLER DENSITY-(GPM/FT2)
XXX	AREA OF SPRINKLER OPERATION (FT2)
XXX	MAX COVERAGE AREA PER SPRINKLER (FT)
XXX	MAX SPACING (FT)
XXX	NFPA CLASSIFICATION
XXX	SPRINKLER TYPE
XXX	NOTES

LIGHT HAZARD

ORDINARY 1 HAZARD

ORDINARY 2 HAZARD

EXTRA HAZARD 1

FIRE PROTECTION - LEGEND

1/8" = 1'-0"

NOTES

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
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~ENGINEERING EXCELLENCE~

DATE: 07/16/2026

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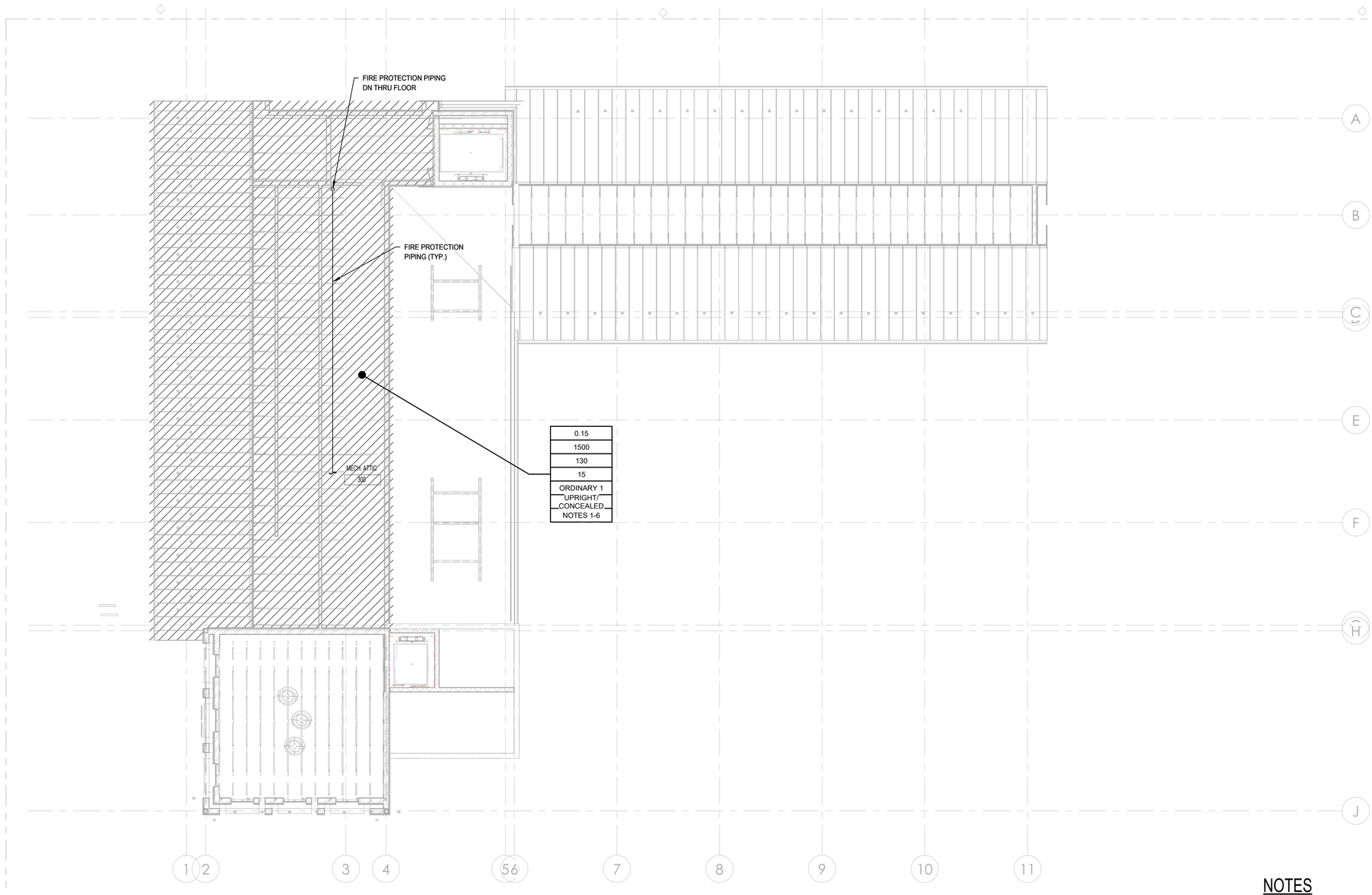
FIRE PROTECTION SECOND FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		As indicated

DATE: 12/13/2024
JOB No.: 0116U200
SHEET No.: FP-2.2

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1 FIRE PROTECTION ATTIC FLOOR PLAN

1/8" = 1'-0"

LEGEND

XXX	SPRINKLER DENSITY-(GPM/FT2)
XXX	AREA OF SPRINKLER OPERATION (FT2)
XXX	MAX COVERAGE AREA PER SPRINKLER (FT)
XXX	MAX SPACING (FT)
XXX	NFPA CLASSIFICATION
XXX	SPRINKLER TYPE
XXX	NOTES

LIGHT HAZARD

ORDINARY 1 HAZARD

ORDINARY 2 HAZARD

EXTRA HAZARD 1

FIRE PROTECTION - LEGEND

1/8" = 1'-0"

NOTES

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Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

STATE OF NEW JERSEY · MICHAEL P. GELHARDT · LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

TIMOTHY D. KOLODY
NJ PROFESSIONAL ENGINEER LIC. No. 51529

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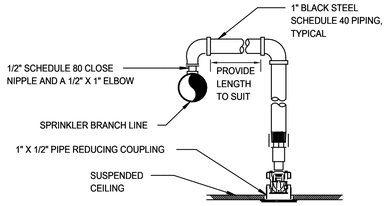
FIRE PROTECTION ATTIC FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		As indicated

DATE: 12/13/2024
JOB No.: 0116U200
SHEET No.: FP-2.3

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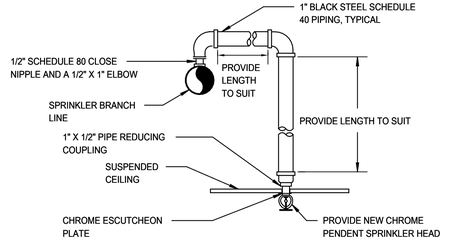


NOTES:

1. ADJUST SPRINKLER DROPS AS NECESSARY TO CLEAR OBSTRUCTIONS SUCH AS THE CEILING "T" BAR SUSPENSION SYSTEM, LIGHT FIXTURES, ETC. PROVIDE A PIPE HANGER IF THE HORIZONTAL OFFSET LENGTH EXCEEDS 24 INCHES.
2. THIS SPRINKLER HEAD DROP IS APPLICABLE ONLY WHERE IT IS NOT NECESSARY TO RETAIN AN UPRIGHT SPRINKLER FOR PROTECTION OF COMBUSTIBLE CONSTRUCTION ABOVE THE CEILING.

3 NEW SPRINKLER HEAD DROP WITH RECESSED SPRINKLER HEAD1

12" = 1'-0"

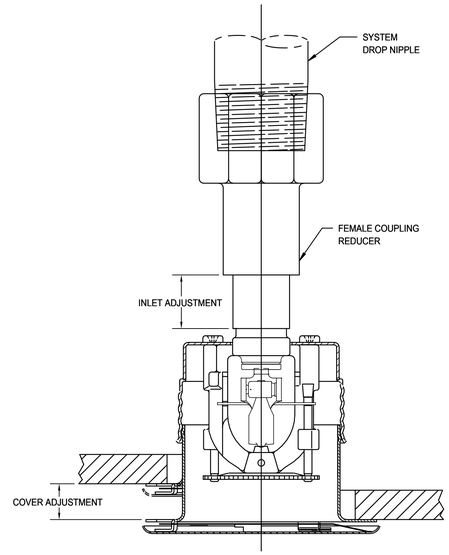


NOTES:

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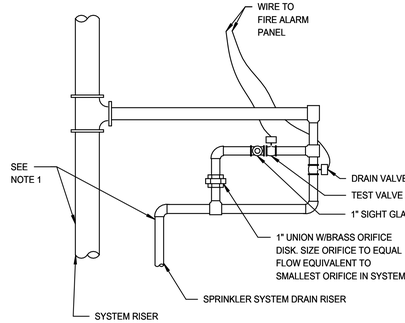
2 TYPICAL NEW SPRINKLER HEAD DROP

12" = 1'-0"



1 RECESSED SPRINKLER HEAD1

12" = 1'-0"

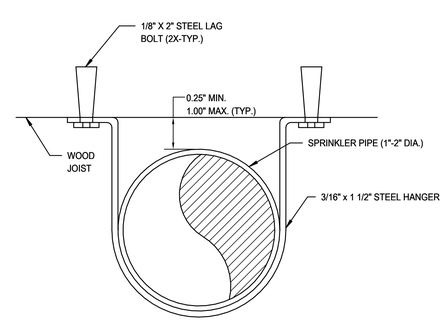


NOTES:

1. SIZE PER LATEST EDITION OF NFPA 13.

5 FIRE SPRINKLER CONNECTION

12" = 1'-0"



4 TYPICAL PIPE HANGER

12" = 1'-0"

RVE
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~ENGINEERING EXCELLENCE~

STATE OF NEW JERSEY — TIMOTHY D. KOLODY — 51529 — LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

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NJ PROFESSIONAL ENGINEER LIC. No. 51529

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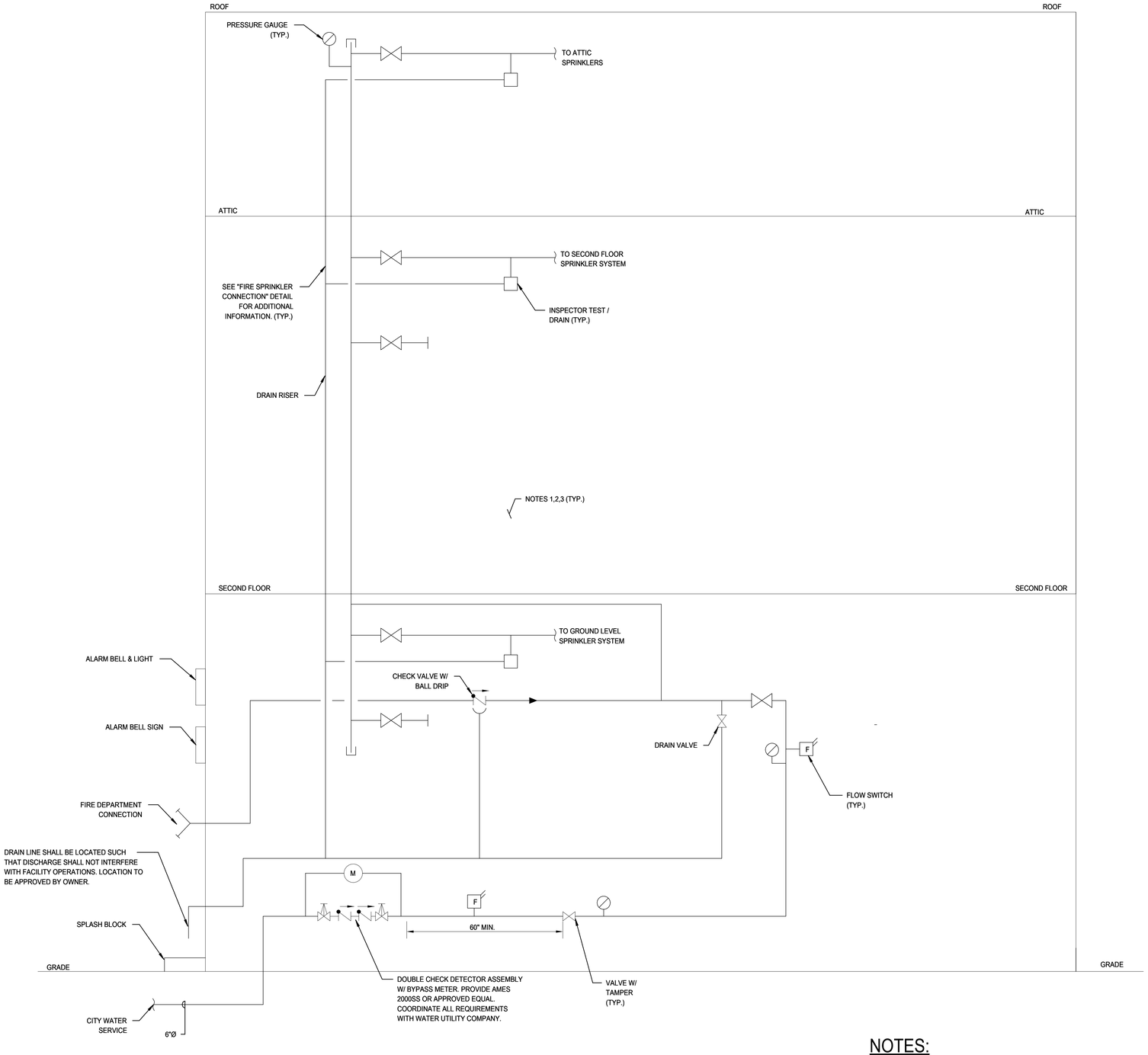
No.	REVISION	DATE	BY	CHK

FIRE PROTECTION DETAILS

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE — ATLANTIC COUNTY — NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		12" = 1'-0"
DATE: 12/13/2024		SHEET No.:	FP-3.1
JOB No.: 0116U200			

Autodesk Docs://Margate Public Works Building/0116U200 - MEP - 2025.rvt



NOTES:

1. FINAL PIPE SIZES SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS.
2. PIPING ARRANGEMENT SHOWS FOR DIAGRAMMATICAL PURPOSES ONLY. FINAL PIPING LAYOUT SHALL BE DETERMINED BY FIRE PROTECTION CONTRACTOR IN ACCORDANCE WITH NFPA REQUIREMENTS TO AVOID FIELD INTERFERNECES.

1 **FIRE PROTECTION RISER DIAGRAM**
N.T.S.

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STATE OF NEW JERSEY · TIMOTHY D. KOLODY · GE47029 · LICENSED PROFESSIONAL ENGINEER

DATE: 07/16/2026

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FIRE PROTECTION DETAILS

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY

CITY OF MARGATE

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
M.G.	M.G.		N.T.S.

DATE: 12/13/2024
JOB No.: 0116U200
SHEET No.: FP-3.2

Assistant Docs:Margate Public Works Building\01\6U200 - MEP - 2025.rvt

ELECTRICAL SYMBOLS

(ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT)

- 2'x4' LED LIGHT FIXTURE (A - INDICATES FIXTURE TYPE)
- 2'x4' EMERGENCY LED LIGHT FIXTURE (AE -INDICATES FIXTURE TYPE)
- 2'x2' LED LIGHT FIXTURE
- 2'x2' EMERGENCY LED LIGHT FIXTURE
- 5"x4' LED LIGHT FIXTURE
- 5"x4' EMERGENCY LED LIGHT FIXTURE
- DOWNLIGHT LIGHT FIXTURE
- EMERGENCY DOWNLIGHT LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- WALL MOUNTED EMERGENCY LIGHT FIXTURE
- EXIT SIGN (SHADED AREA INDICATES FACE) (ARROW INDICATES DIRECTION) (XW - WALL MOUNTED) (XC - CEILING MOUTED)
- DUAL HEAD EMERGENCY BATTERY BACKUP
- DUAL REMOTE HEADS
- SMART SWITCH
- S_D SWITCH, DIMMER
- S_3 SWITCH, 3-WAY TOGGLE
- S_4 SWITCH, 4-WAY TOGGLE
- S_P SWITCH, PILOT LIGHT
- S_K SWITCH, KEYED
- S_{OC} SWITCH, OCCUPANCY SENSOR
- OCCUPANCY SENSOR - P - PASSIVE INFRARED; U - ULTRASONIC; D - DUAL TECHNOLOGY
- LIMIT SWITCH IN DOOR FRAME
- SITE POLE LIGHT
- DAYLIGHT SENSOR
- RECEPTACLE, DUPLEX - (L - KEY LOCKING STEEL COVER) (S - SURGE PROTECTOR) (+ - MOUNT 8" COUNTERTOP / TABLE) (T - TAMPER PROOF) (U - DUPLEX WITH USB PORT)
- RECEPTACLE, QUAD
- RECEPTACLE, SINGLE
- RECEPTACLE, GFI - (WP-WEATHERPROOF IN-USE COVER)
- RECEPTACLE, SPECIAL (NEMA CONFIGURATION INDICATED)
- RECEPTACLE, DUPLEX FLOOR MOUNT (POKE-THRU)
- RECEPTACLE, CEILING
- FLOOR BOX WITH (2) DUPLEX RECEPTACLES
- RECESSED TELEVISION BOX WITH DUPLEX RECEPTACLE
- JUNCTION BOX
- JUNCTION BOX, FLOOR MOUNTED
- JUNCTION BOX, TELEPHONE
- JUNCTION BOX, DATA
- JUNCTION BOX, TELEPHONE/DATA
- JUNCTION BOX, POWER
- JUNCTION BOX, WEATHER PROOF
- ELECTRIC FLUSH VALVE TRANSFORMER
- JUNCTION BOX - ABOVE CEILING
- PROPOSED PANELBOARD - SURFACE MOUNTED
- PROPOSED PANELBOARD - FLUSH MOUNTED
- EXISTING PANELBOARD - SURFACE MOUNTED
- EXISTING PANELBOARD - FLUSH MOUNTED
- CIRCUIT BREAKER IN ENCLOSURE
- CIRCUIT BREAKER
- ELECTRIC UTILITY METER
- IDF INTERMEDIATE DISTRIBUTION FRAME
- MDF MAIN DISTRIBUTION FRAME
- CURRENT TRANSFORMER
- GENERATOR
- TRANSFORMER
- COMBINATION MOTOR / STARTER DISCONNECT SWITCH WITH MOTOR
- POTENTIAL TRANSFORMER
- MV SWITCH GEAR
- GROUND ROD (10' x 3/4")
- MOTOR
- XX/XX/XX NON-FUSED DISCONNECT SWITCH - (XX/XX/XX - INDICATES RATED AMPS / VOLTS / PHASE) 30A, 3P UNLESS OTHERWISE NOTED
- FUSED DISCONNECT SWITCH
- COMBINATION MOTOR STARTER / DISCONNECT SWITCH

- MAGNETIC STARTER
- K KEY OPERATED CONTROL STATION
- C MAGNETIC CONTACTOR
- PC PHOTOCELL
- TC TIME CLOCK SWITCH
- R RELAY
- D HAND DRYER
- XX / X EQUIPMENT DESIGNATION TAG
- WIRELESS COMMUNICATION ANTENNA
- R CONTROL RELAY
- GROUNDING ELECTRODE
- NON FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- FUSED POTENTIAL TRANSFORMER
- AUTOMATIC TRANSFER SWITCH (N, L, E) L - LOAD; N - NORMAL POWER; E - EMERGENCY POWER
- SPD SURGE PROTECTIVE DEVICE WITH DISCONNECT
- HEAT TRACE CABLING
- EXPOSED RACEWAY
- LOW VOLTAGE WIRING
- CONDUIT CONCEALED IN WALLS OR CEILING
- EM EMERGENCY CIRCUIT
- CONDUIT CONCEALED IN OR UNDER FLOOR OR UNDERGROUND
- HOMERUN - CIRCUIT & PANEL AS INDICATED (2#12 + 1#12G, 3/4"C, UNLESS OTHERWISE NOTED)
- CT CABLE TRAY
- W SURFACE RACEWAY, WIREMOLD
- FIRE ALARM LOUDSPEAKER
- F FIRE ALARM PULL STATION
- 30cd / F FIRE ALARM STROBE LIGHT - (XXcd - CANDELA RATING)
- F FIRE ALARM SPEAKER
- F FIRE ALARM / BELL
- 30cd / C COMBINATION FIRE ALARM SPEAKER / STROBE - (XXcd - CANDELA RATING)
- COMBINATION FIRE ALARM SPEAKER / STROBE - CEILING MOUNTED
- B FIRE ALARM CODE BLUE
- S PHOTO-ELECTRIC TYPE SMOKE DETECTOR
- H / AC HEAT DETECTOR (COMBINATION FT/RR U.O.N., AC-ABOVE CEILING.)
- HS COMBINATION HEAT/SMOKE DETECTOR
- S / D PHOTO-ELECTRIC TYPE DUCT SMOKE DETECTOR
- STR SHUNT TRIP RELAY
- FACP FIRE ALARM CONTROL PANEL
- RAP REMOTE ANNUNICATOR PANEL
- FS SPRINKLER FLOW SWITCH
- TS SPRINKLER TAMPER SWITCH
- FAA FIRE ALARM ANNUNCIATION PANEL
- CO / D CARBON MONOXIDE TYPE DUCT DETECTOR (WP - WEATHERPROOF)
- CO CARBON MONOXIDE DETECTOR
- N02 NITROGEN DIOXIDE DETECTOR
- C02 CARBON DIOXIDE DETECTOR
- G EMERGENCY GAS SHUTOFF
- B EMERGENCY BOILER SHUTOFF
- EMERGENCY ELECTRIC SHUTOFF
- R RESCUE ASSISTANCE CALL STATION
- RAS RESCUE ASSISTANCE SYSTEM PANEL
- DIALER OFF-SITE CELLULAR DIALER
- SECURITY/VIDEO CAMERA (WP - WEATHERPROOF) (PTZ - PAN, TILT, ZOOM)
- DUAL CCTV CAMERA ASSEMBLY W/ DOME COVER
- SECURITY MOTION SENSOR
- MOTOR STARTER WITH THERMAL OVERLOAD RELAY
- S_M SINGLE PHASE MOTOR OVERLOAD TOGGLE SWITCH
- INDICATES EXISTING TO BE DEMOLISHED
- DENOTES POINT OF CONNECTION OF EXISTING TO NEW

ABBREVIATIONS

%	PERCENT
&	AND
Ø, PH	PHASE
°C.	CENTIGRADE DEGREES
°F.	FAHRENHEIT DEGREES
1/C	SINGLE CONDUCTOR
A.I.C.	AMPERES INTERRUPTING CAPACITY
A.T.C.	AUTOMATIC TEMPERATURE CONTROL
A.T.S.	AUTOMATIC TRANSFER SWITCH
A/C.	AIR CONDITION
AC	ALTERNATING CURRENT
ADDL.	ADDITIONAL
AF	AMPERE FRAME
A-F	AMPERE FUSE
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF/A.F.F.	ABOVE FINISHED FLOOR
AFG/A.F.G.	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL.	ALUMINUM
AMP., A.	AMPERE
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
AT	AMPERE TRIP
ASY.	ASYMMETRICAL
AUX.	AUXILIARY
B.F.C.	BELOW FINISHED CEILING
BKR.	BREAKER
BLDG.	BUILDING
BSMT.	BASEMENT
C/C.	CONDUIT
C OF U/CFU	COEFFICIENT OF UTILIZATION
C.T., CT	CURRENT TRANSFORMER
CB, CIR. BKR., C/B	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT., CIR, CIRC.	CIRCUIT
CL.	CLOSET
CLG.	CEILING
CO./Co.	COMPANY
COAX.	COAXIAL CABLE
COL.	COLUMN
COMP.	COMPLETE
CONC.	CONCRETE
CONDR.	CONDUCTOR
CONN	CONNECTED, CONNECTOR
CONST.	CONSTRUCTION
CONT.	CONTINUATION
CONTR.	CONTRACTOR
COORD.	COORDINATE
CORR.	CORRIDOR
CPU	CENTRAL PROCESSING UNIT
Cu	COPPER
CU	CONDENSING UNIT
CU. FT.	CUBIC FEET
CW	CLOCKWISE
D	DEPTH
DEM	DEMAND
DIA.	DIAMETER
DISC.	DISCONNECT SWITCH
DIV.	DIVISION
DN.	DOWN
DPST	DOUBLE POLE SINGLE THROW
DRAW., DWG.	DRAWING
E.C.	ELECTRICAL CONTRACTOR
E.F., EF	EXHAUST FAN
E.H.	ELECTRIC HEATER
E.P.R.	ETHYLENE PROPYLENE RUBBER
E.W.	EACH WAY
EA.	EACH
EHT	ELECTRICAL HEAT TRACING CABLE
ELEC. CLO.	ELECTRICAL CLOSET
ELEC./ELECT.	ELECTRIC
ELEV./EL.	ELEVATION/ELEVATOR
EM	EMERGENCY POWER PACK COMPLETE
EMT	ELECTRICAL METALLIC TUBING
ENCL.	ENCLOSURE
ENT.	ENTRANCE
EMERG.	EMERGENCY
EQUIP.	EQUIPMENT
EST.	ESTIMATE
EX./E	EXISTING
EXT.	EXTERNAL/EXTERIOR
F.A.	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
F.E.	FIRE EXTINGUISHER
F.O.	FIBER OPTIC
FDN.	FOUNDATION
FIG.	FIGURE
FIN.	FINISH/FINISHED
FIXT.	FIXTURE
FL.	FLOOR
FLA	FULL LOAD AMPERES
FLEX.	FLEXIBLE
F.L.M.C.	FLEXIBLE LIQUIDTIGHT METALLIC CONDUIT
FLUOR.	FLUORESCENT
FC	FOOTCANDLE
FT	FAULT TRIP
FT.	FEET
FU.	FUSE/FUSED
G.C.	GENERAL CONTRACTOR
GA.	GAGE/GAUGE
GALV.	GALVANIZED
GEN.	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRD, GND., G	GROUND
GTD	GENERATOR TRANSFER DEVICE
H.I.D.	HIGH INTENSITY DISCHARGE
H.O.A.	HAND OFF AUTO
H.P.S.	HIGH PRESSURE SODIUM
HEX.	HEXAGON
HH	HANDHOLE
HORIZ.	HORIZONTAL
H.P./HP.	HORSEPOWER
HPF	HIGH POWER FACTOR
HT.	HEIGHT
HWH	HOT WATER HEATER
HZ.	HERTZ
IMC	INTERMEDIATE CONDUIT
INC.	INCANDESCENT
INSUL.	INSULATION/INSULATED
ISOL.	ISOLATED
IAP	INTRUSION ALARM PANEL
IAKP	INTRUSION ALARM KEYPAD
JB, J	JUNCTION BOX
KAIC	THOUSAND AMPERES INTERRUPTING CAPACITY
KVAR	KILOVAR
KO	KNOCKOUT
kW	KILOWATT
kCMIL	THOUSAND CIRCULAR MILS
KWH	KILOWATT HOUR
KHZ	KILOHERTZ
kV	KILOVOLT
kVA	KILOVOLT-AMPERE
LG.	LENGTH
LF.	LINEAR FEET
LG.	LONG
LRA	LOCKED ROTOR AMPERES
LT.	LIGHT
LTG.	LIGHTING
M.L.O.	MAIN LUGS ONLY
M/C	MULTI-CONDUCTOR
MANUF., MFR.	MANUFACTURER
MAX.	MAXIMUM
M.B./MB	MAIN BREAKER
M.C.B./MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILLS
MDS	MAIN DISTRIBUTION SWITCHBOARD
MDP	MAIN DISTRIBUTION PANEL
MECH.	MECHANICAL
MET.	METALLIC
MF	MAINTENANCE FACTOR
MG	MOTOR GENERATOR
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MTG.	MOUNTING
N	NEUTRAL
NC	NORMAL CLOSED
NEC/N.E.C.	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
N.I.C./NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
No., #	NUMBER
N.T.S./NTS	NOT TO SCALE
NL	NIGHT LIGHT CIRCUT
N.F.	NON FUSED
P	POLE
PC	PHOTOCELL
P.I.L.C.	PAPER INSULATED LEAD COVERED
PB, P	PULL BOX, BREAKER OR SWITCH POLE
PNL.	PANELBOARD
PORC.	PORCELAIN
PRI.	PRIMARY
POE	POWER OVER ETHERNET
PTD.	PAINTED
PVC	POLYVINYLCHLORIDE
R	RADIUS
RAP	REMOTE ANNUNCIATOR PANEL
R.C.SW.	REMOTE CONTROL SWITCH
REBAR.	REINFORCING BAR
REC.	RECESSED, RECEPTACLE
RECEPT.	RECEPTACLES
REQ'D	REQUIRED
REV.	REVISE/REVISION
RF	RADIO FREQUENCY
RGA	REMOTE GENERATOR ANNUNCIATOR
RGS	RIGID GALVANIZED STEEL CONDUIT
RM.	ROOM
RT	ROOFTOP
S.F.	SQUARE FEET
S.S./SS	STAINLESS STEEL
SEC.	SECONDARY
SECT.	SECTION
SEP.	SEPARATE
SERV.	SERVICE
SHT.	SHEET
SIG.	SIGNAL
SK.	SKETCH
SPECS.	SPECIFICATIONS
SPD	SURGE PROTECTIVE DEVICE
SQ.	SQUARE
SSRV	SOLID STATE REDUCED VOLTAGE STARTER
SURF.	SURFACE
SUSP.	SUSPENDED
SW.	SWITCH
SWBD.	SWITCHBOARD
SYM.	SYMMETRICAL
T.C./TC	TIME CLOCK
TRANS./XFMR	TRANSFORMER
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UH	UNIT HEATER
UL	UNDERWRITING LABORATORIES
V	VOLTAGE, VOLTS
VD	VOLTAGE DROP
V.I.F./VIF	VERIFY IN FIELD
VS.	VERSUS
W	WIRE
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF

WIRE & CONDUIT SIZING SCHEDULE

	WIRE SIZE (AWG/KCMIL)			NO. OF WIRES & CONDUIT SIZE IN INCHES		
CKT. TYPE	CONDUCTOR & NEUTRAL	EQUIPMENT GROUND	SUPPLY SIDE BONDING JUMPER	A 2W+G	B 3W+G	C 4W+G
1	14	14	8	3/4	3/4	3/4
2	12	12	8	3/4	3/4	3/4
3	10	10	8	3/4	3/4	3/4
4	8	10	8	3/4	3/4	3/4
5	6	10	8	3/4	1	1
6	4	10	8	1	1-1/4	1-1/4
7	4	8	8	1	1-1/4	1-1/4
8	3	8	8	1-1/4	1-1/4	1-1/4
9	2	8	8	1-1/4	1-1/4	1-1/2
10	1	6	6	1-1/4	1-1/2	2
11	1	6	6	1-1/4	1-1/2	2
12	1/0	6	6	1-1/2	2	2
13	2/0	6	4	2	2	2
14	3/0	6	4	2	2	2-1/2
15	4/0	2	2	2	2-1/2	2-1/2
16	250 KCMIL	2	2	2	2-1/2	2-1/2
17	300 KCMIL	2	2	2	2-1/2	2-1/2
18	350 KCMIL	2	2	2	2-1/2	3
19	400 KCMIL	1/0	1/0	2	2-1/2	3
20	500 KCMIL	1/0	1/0	2-1/2	3	3-1/2
21	(2) 4/0	(2) 2	(2) 1/0	---	(2) 2	(2) 2-1/2
22	(2) 250 KCMIL	(2) 2	(2) 1/0	---	(2) 2	(2) 2-1/2
23	(2) 350 KCMIL	(2) 1	(2) 2/0	---	(2) 2-1/2	(2) 3
24	(2) 500 KCMIL	(2) 1/0	(2) 2/0	---	(2) 3	(2) 3-1/2
25	(3) 300 KCMIL	(3) 1/0	(3) 2/0	---	(3) 2-1/2	(3) 3
26	(3) 400 KCMIL	(3) 2/0	(3) 2/0	---	(3) 3	(3) 3
27	(3) 500 KCMIL	(3) 3/0	(3) 2/0	---	(3) 3	(3) 3-1/2
28	(4) 350 KCMIL	(4) 3/0	(4) 2/0	---	(4) 2-1/2	(4) 3
29	(4) 500 KCMIL	(4) 4/0	(4) 2/0	---	(4) 3	(4) 3-1/2
30	(5) 400 KCMIL	(5) 4/0	(5) 2/0	---	(5) 3	(5) 3
31	(5) 500 KCMIL	(5) 250	(5) 2/0	---	(5) 3	(5) 3-1/2
32	(6) 400 KCMIL	(6) 250	(6) 2/0	---	(6) 3	(6) 3-1/2
33	(7) 500 KCMIL	(7) 350	(7) 2/0	---	(7) 3	(7) 3-1/2
34	(8) 500 KCMIL	(8) 400	(8) 2/0	---	(8) 3	(8) 3-1/2

THE ABOVE SCHEDULE IS BASED ON 600 VOLT WIRE TYPE 90°C THHN/THWN/XHHW. THE FOLLOWING IS A SAMPLE OF WIRE AND CONDUIT READOUT FROM ABOVE SCHEDULE:

2A = (2)#12AWG, (1)#12GRD IN 3/4" C.

GENERAL NOTES

1. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, THE SPECIFICATIONS FOR GROUNDING, THE CONTRACT DRAWINGS, FEDERAL, STATE AND LOCAL CODES AND TO THE SATISFACTION OF THE ENGINEER. ALL GROUNDING CONNECTIONS TO BE MADE BY THE CADWELD PROCESS OR EQUAL.
2. ALL CONDUITS AND ELECTRICAL EQUIPMENT ARE SHOWN DIAGRAMMATICALLY AND MAY BE ALTERED TO SUIT FIELD CONDITIONS PENDING ENGINEER'S APPROVAL.
3. ALL PLANS ELEVATIONS AND CLEARANCES SHALL BE CHECKED IN THE FIELD PRIOR TO INSTALLATION TO AVOID ALL OBSTRUCTIONS.
4. ALL JUNCTION BOXES SHALL BE OF SUFFICIENT SIZE TO PROVIDE FREE SPACE FOR ALL CONDUCTORS ENCLOSED IN THE BOX AND SHALL BE SIZED WITH THE LATEST N.E.C. ARTICLE 314.
5. ALL DIMENSIONS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
6. CONTRACTOR SHALL CHECK FOR OBSTRUCTIONS AND CLEAN OUT ALL CONDUITS PRIOR TO PULLING IN CABLES.
7. PHASING OF ALL ELECTRICAL CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE MADE IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY REQUIREMENTS.
8. ALL HOLES THROUGH STRUCTURE TO ACCOMMODATE ELECTRICAL CONDUITS SHALL BE CORE DRILLED AND SEALED WITH NON-SHRINK GROUTING COMPOUND. WHERE RACEWAYS PASS THROUGH FLOORS AND FIRE RATED WALLS AND/OR PARTITIONS, CONTRACTOR SHALL FURNISH UL RATED FIREPROOFING MATERIAL TO BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND RESTORE ORIGINAL FIRE RATING.
9. THE CONTRACTOR SHALL FURNISH STRUCTURAL SUPPORT FOR ALL EQUIPMENT. FOR SURFACE MOUNTED EQUIPMENT, SUCH AS PANELBOARDS, STARTERS, SAFETY SWITCHES AND THE LIKE, PROVIDE "UNISTRUT" WITH CORROSION RESISTANT MOUNTING HARDWARE.
10. NO CONDUIT SMALLER THAN 3/4" SHALL BE USED UNLESS OTHERWISE SPECIFIED.
11. ALL JOINTS BETWEEN DISSIMILAR METALS SHALL BE COATED WITH A LITHIUM BASED THREAD LUBRICANT.
12. RACEWAYS SHALL BE PROVIDED WITH AN APPROVED EXPANSION-DEFLECTION FITTINGS WHERE CROSSING BUILDING CONSTRUCTION EXPANSION JOINTS AND WHERE NECESSARY TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.
13. FURNISH AND INSTALL CONCRETE PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
14. PRIOR TO SUBMITTING PROPOSALS, BIDDERS ARE INSTRUCTED TO REVIEW PLANS AND SPECIFICATIONS OF ALL CONCURRENT WORK TO DETERMINE QUANTITIES OF LABOR AND MATERIAL NECESSARY TO INSTALL, CONNECT, AND TEST MATERIAL FURNISHED UNDER THESE SPECIFICATIONS. ANY ADDITIONAL LABOR AND MATERIAL REQUIRED DUE TO FAILURE OF THE CONTRACTOR TO FOLLOW THESE INSTRUCTIONS, SHALL BE FURNISHED AT NO ADDITIONAL COST TO THE OWNER.
15. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER CONTRACTORS EMPLOYED ON THIS PROJECT PRIOR TO ROUGHING IN. THE CONTRACTOR SHALL OBTAIN AND REVIEW APPROVED SHOP DRAWINGS OF ALL OTHER TRADES AFFECTING ALL ELECTRICAL WORK.
16. THE CONTRACTOR SHALL CHECK AND TORQUE TIGHTEN ALL CONNECTIONS, WHETHER FACTORY MADE OR MADE UNDER THIS CONTRACT, USING ACCURATELY CALIBRATED TOOLS. TORQUE SETTINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIC RECOMMENDATIONS.
17. INSTALL AN 1/8" INCH POLY PROPYLENE (PULL STRING) IN ALL SPARE CONDUITS.
18. INSULATED COPPER CONDUCTORS FOR EQUIPMENT GROUNDING SHALL BE ROUTED WITH ALL POWER CONDUCTORS.
19. CONDUCTORS USED FOR CONTROL WIRING SHALL BE AT LEAST #14AWG AND ALL POWER CONDUCTORS SHALL BE AT LEAST #12AWG UNLESS OTHERWISE SPECIFIED.
20. CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY EQUIPMENT AND EXERCISE PRECAUTIONARY PROCEDURES WHEN WORKING WITH OR NEAR ENERGIZED EQUIPMENT.
21. CONTRACTOR SHALL REMOVE ALL OBSOLETE EQUIPMENT, CONDUITS AND WIRING, EXCEPT WHERE OTHERWISE NOTED.
22. INTERRUPTION OF SERVICE SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER AND HELD TO MINIMUM IN ORDER TO MAINTAIN THE PROPER OPERATION OF THE FACILITY.
23. WHEN CONDUIT OR CABLE RUNS FOR POWER AND LIGHTING EXCEED 60FT. FOR 120VOLT OR 120FT. FOR 277VOLT TO CENTER OF LOAD, #10AWG WIRE OR LARGER SHALL BE USED AS REQUIRED FOR A MAXIMUM 3% VOLTAGE DROP AT FULL CIRCUIT CAPACITY.
24. HEAVIER LINE WEIGHT SYMBOLS AND TEXT INDICATE NEW WORK UNLESS OTHERWISE NOTED. LIGHT LINE WEIGHT SYMBOLS AND ITALICIZED TEXT INDICATE EXISTING CONDITIONS TO REMAIN UNLESS OTHERWISE NOTED.
25. CONTRACTOR SHALL SALVAGE ALL DEMOLISHED EQUIPMENT AND VERIFY WITH OWNER PRIOR TO DISPOSING OF THE DEMOLISHED EQUIPMENT.
26. CONTRACTOR SHALL COORDINATE THE REMOVAL AND INSTALLATION OF ALL DEVICES ASSOCIATED WITH SURVEILLANCE, COMMUNICATIONS, AND CONTROL OF THE FACILITY WITH THE OWNER.
27. THE CONTRACTOR SHALL PROVIDE A THOROUGH EVALUATION OF THE EXISTING PROJECT SITE AND BUILDING CONDITIONS. WHERE EXISTING CONDITIONS WARRANT CHANGES TO ACCOMMODATE THE NEW WORK PLANNED, THE CONTRACTOR SHALL PROVIDE THE REQUIRED WORK AND MATERIALS TO INCLUDE ANY AND ALL ALTERATIONS, DEMOLITION, PATCHING, AND REPAIRING OF THE EXISTING CONDITIONS TO ACCOMMODATE THE NEW CONSTRUCTION WORK AS A COMPLETE INSTALLATION.

STANDARD MOUNTING HEIGHTS

MOUNTING HEIGHTS FOR EQUIPMENT SHALL BE AS LISTED BELOW UNLESS OTHERWISE SPECIFICALLY LABELED. (UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO THE CENTERLINE OF BOXES.)

SWITCHES	3'-8" A.F.F.
TELEPHONE - WALL TYPE	3'-8" A.F.F.
TELEPHONE - DESK TYPE	1'-6" A.F.F.
RECEPTACLE - GENERAL OFFICE	1'-6" A.F.F.
RECEPTACLE - MECHANICAL ROOMS	3'-0" A.F.F.
FIRE ALARM GONG OR SPEAKER	6'-8" TO BOTTOM OF GONG OR SPEAKER
FIRE ALARM PULL STATION	3'-8" A.F.F. TO CENTER OF PULL
FIRE ALARM STROBE LIGHT	6'-8" A.F.F. TO BOTTOM OF STROBE
MOTION SENSOR	6'-5" A.F.F.
PANELBOARDS	6'-0" TO TOP OF CIRCUIT BREAKER MAX.
EXIT LIGHT	ABOVE DOORS (MIN. 7'-6" A.F.F. CLEAR)
KEY PAD (REMOTE)	3'-8" A.F.F.
DATA OUTLET	1'-6" A.F.F.
VOLUME CONTROL/CALL SWITCH	3'-8" A.F.F.
TIMER (NON-ADA)	4'-6" A.F.F.

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~ENGINEERING EXCELLENCE~

DATE: 07/16/2026

BRIAN B. GREGG
NJ PROFESSIONAL ENGINEER LIC. No. 46577

DATE: 07/16/2026

KAVANA R. SMITH
NJ PROFESSIONAL ENGINEER LIC. No. 56794

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

No.	REVISION	DATE	BY	CHK

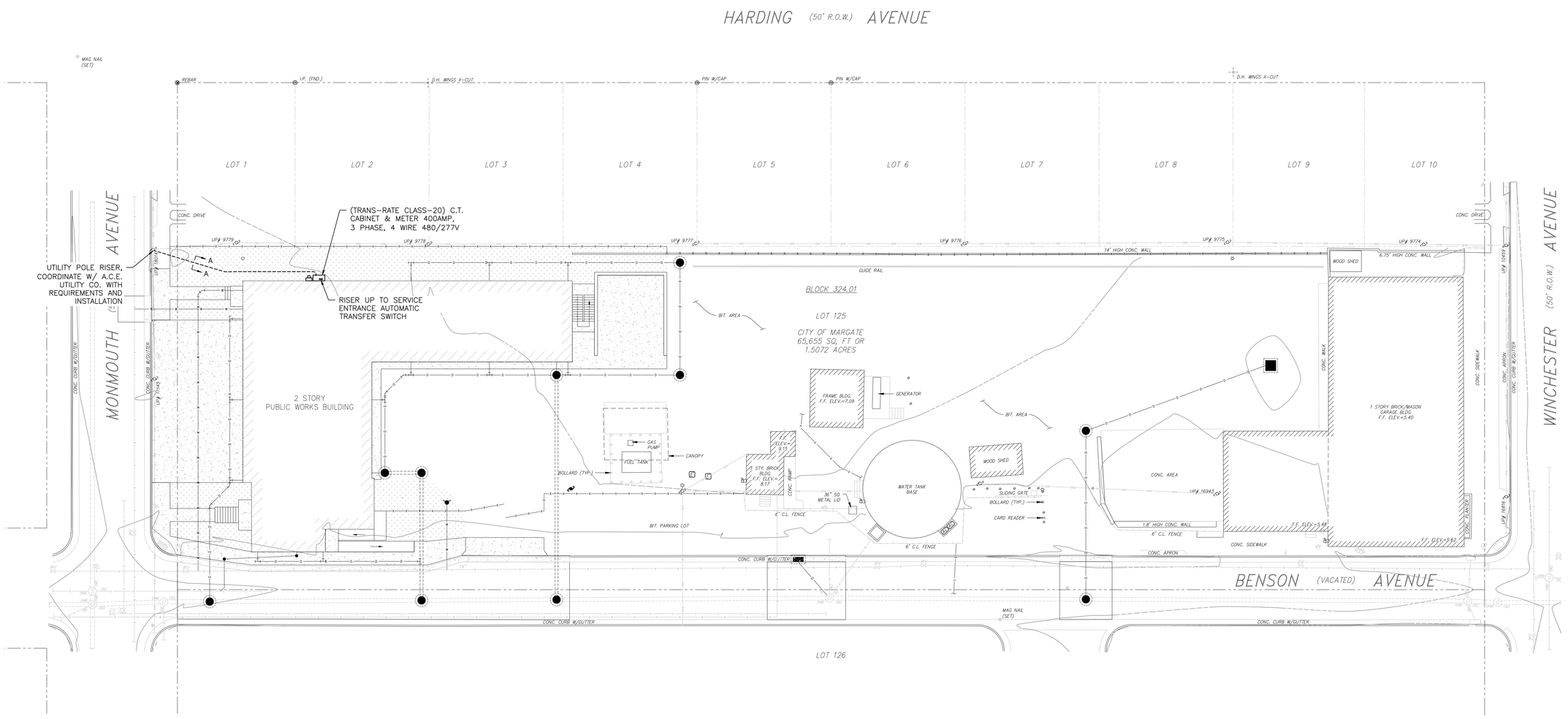
ELECTRICAL COVER SHEET

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE
ATLANTIC COUNTY
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
D.M.	K.M.	K.M.	

DATE: 12/13/2024
JOB No.: 0116U200
SHEET No.: E-1.0

Autodesk Docs://Margate Public Works Building/0116U200 - MEP - 2025.rvt



1 ELECTRICAL SITE PLAN

1" = 20'

GRAPHIC SCALE

0 20' 40' 60'

1 INCH = 20 FT.

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
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Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

DATE: 07/16/2026
BRIAN B. GREGG
NJ PROFESSIONAL ENGINEER LIC. No. 46577

DATE: 07/16/2026
KAYLA R. SMITH
NJ PROFESSIONAL ENGINEER LIC. No. 56794

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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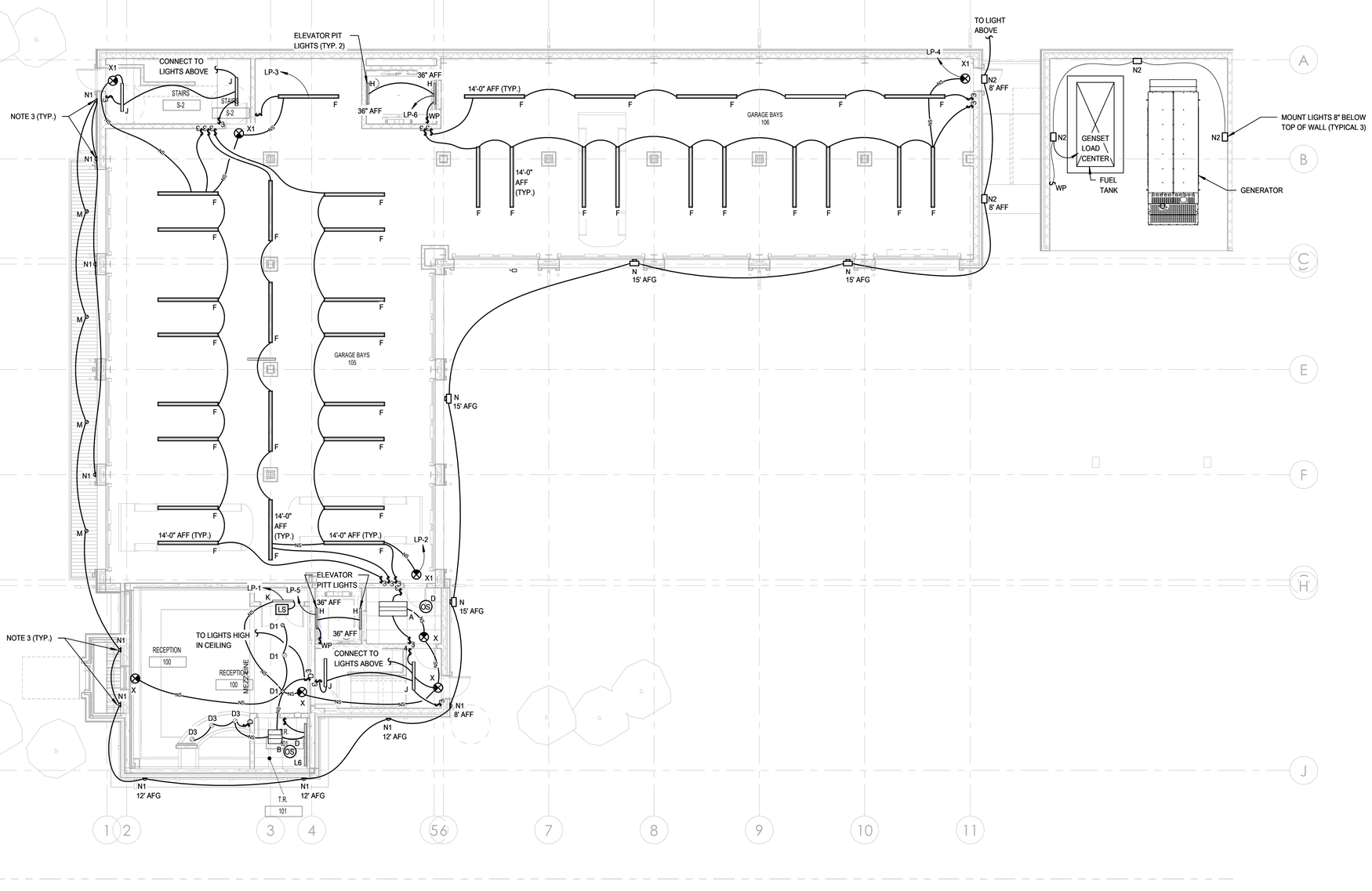
ELECTRICAL SITE PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

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D.M.	K.M.	K.M.	AS NOTED

DATE: 12/13/2024
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SHEET No.: ES-2.1

Z:\Share\2_Civil\Current\HOPKINS\11-MAE\Projects\Margate\01160200\Sheets\ES-2.1 Electrical Site Plan.dwg 7/16/2026 3:45:57 PM



1 ELECTRICAL LIGHTING FIRST FLOOR PLAN

1/8" = 1'-0"

NOTES

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3. SEE ARCHITECTS DRAWINGS FOR ELEVATION OF EXTERIOR LIGHT FIXTURES UNLESS NOTED OTHERWISE

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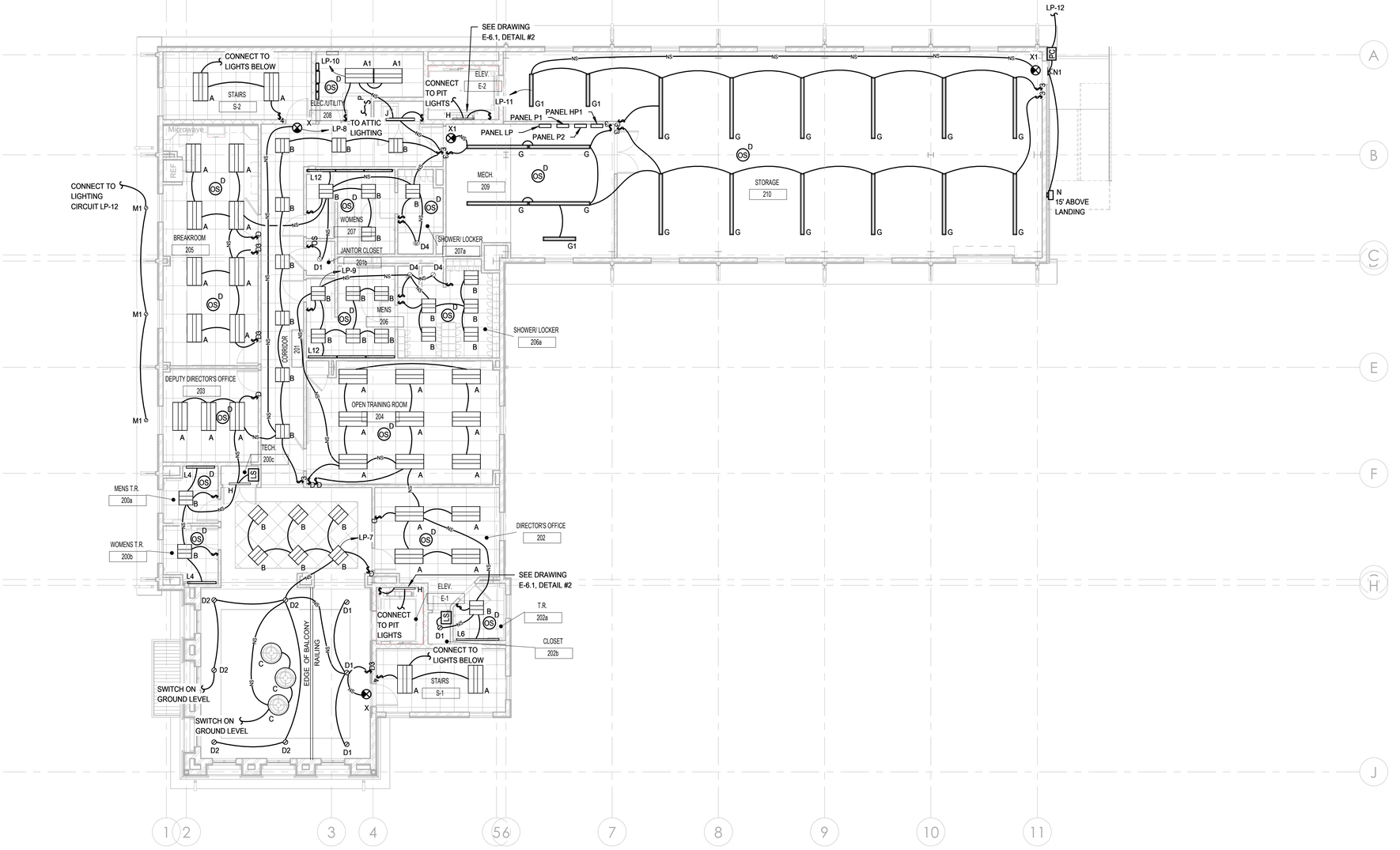
ELECTRICAL LIGHTING FIRST FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

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D.M.	K.M.	K.M.	1/8" = 1'-0"

DATE: 12/13/2024
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SHEET No.: E-2.1

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1 ELECTRICAL LIGHTING SECOND FLOOR PLAN

1/8" = 1'-0"

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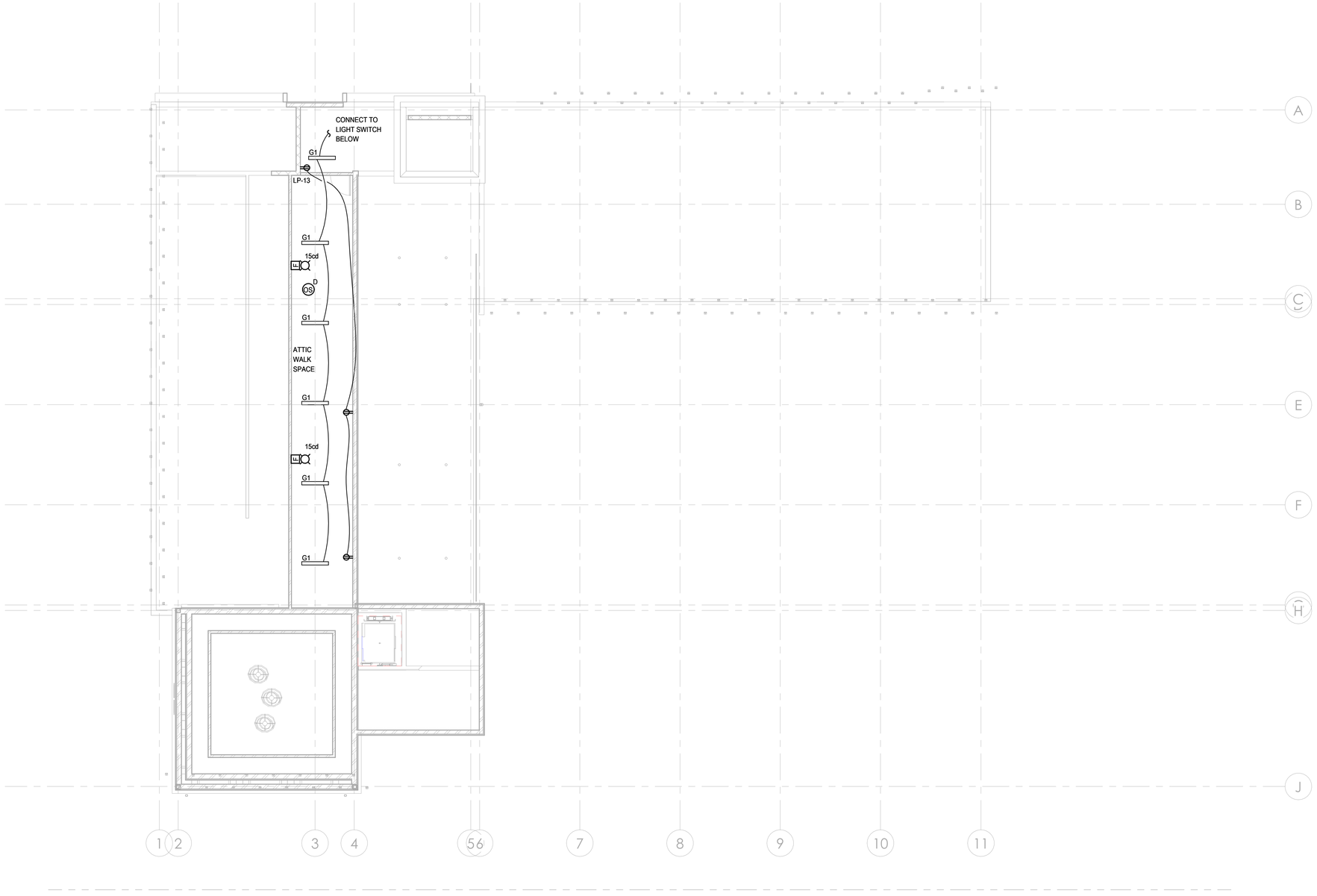
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ELECTRICAL LIGHTING SECOND FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

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JOB No.: 0116U200			

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1 ELECTRICAL LIGHTING/CONVENIENCE POWER/SYSTEMS ATTIC PLAN

1/8" = 1'-0"

NOTES

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ELECTRICAL LIGHTING ATTIC PLAN

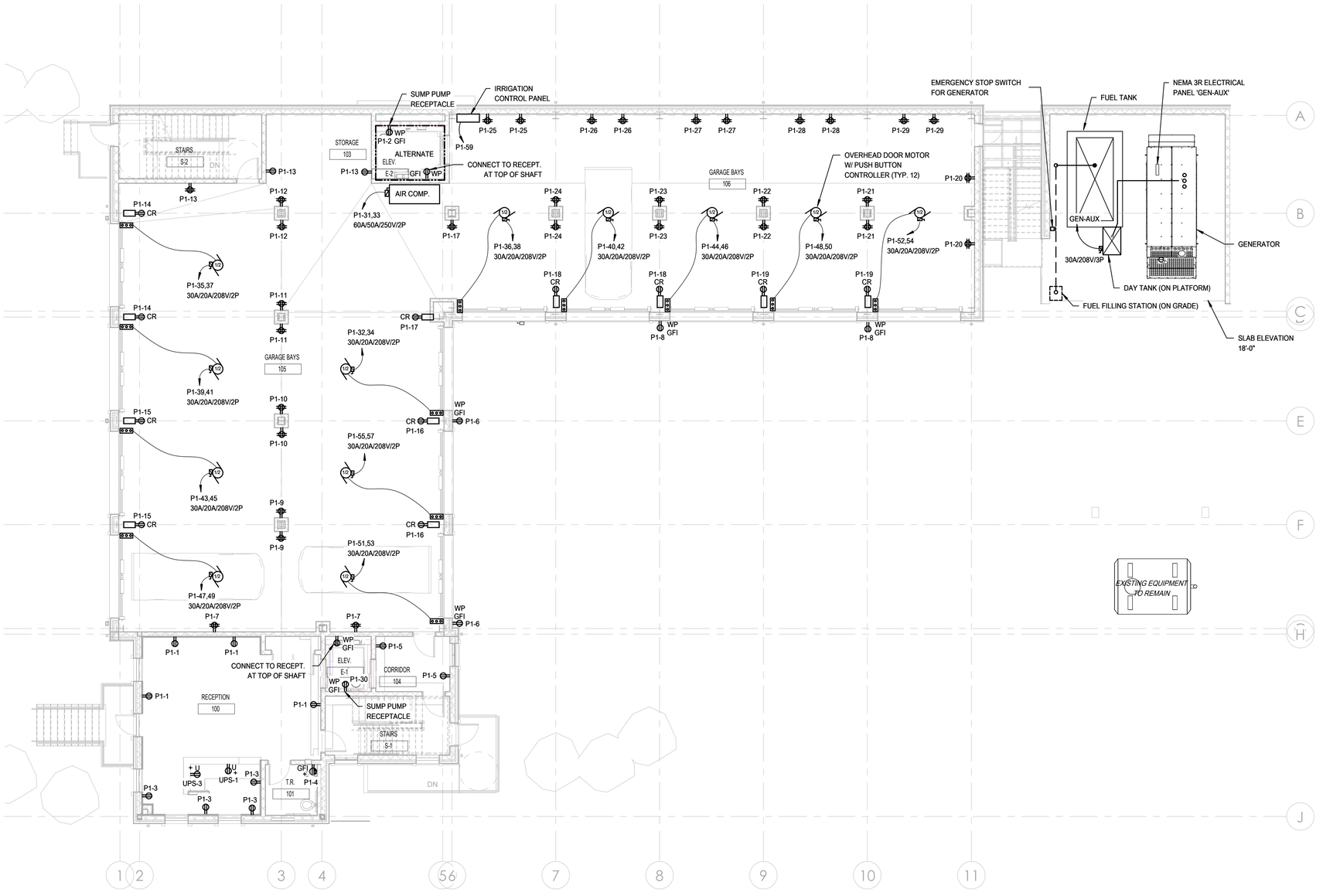
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CITY OF MARGATE

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SHEET No.: E-2.3

Attached Docs:Margate Public Works Building\0116U200 - MEP - 2025.rvt



1 ELECTRICAL POWER FIRST FLOOR PLAN

1/8" = 1'-0"

NOTES

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ELECTRICAL POWER FIRST FLOOR PLAN

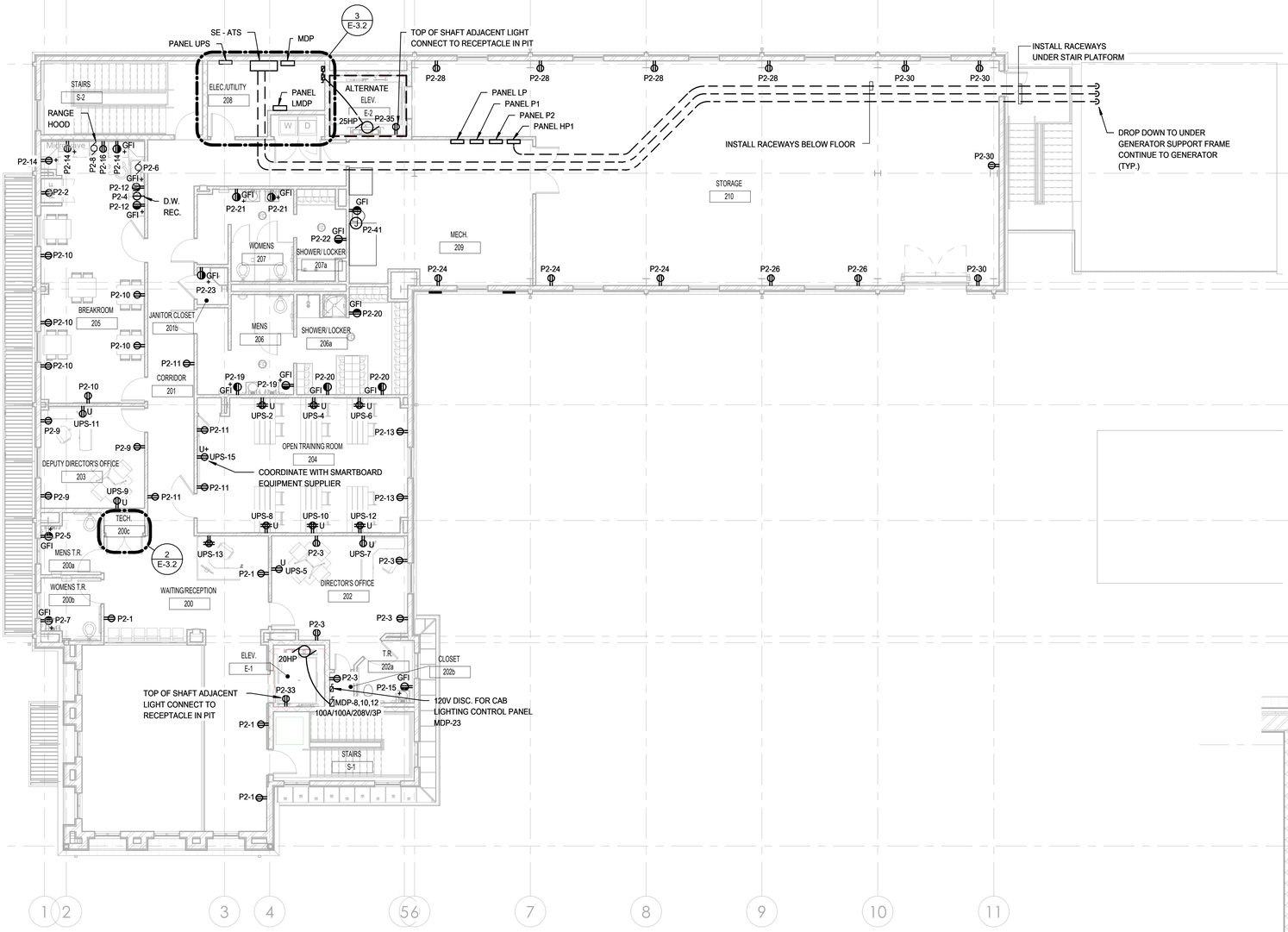
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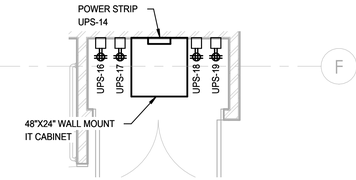
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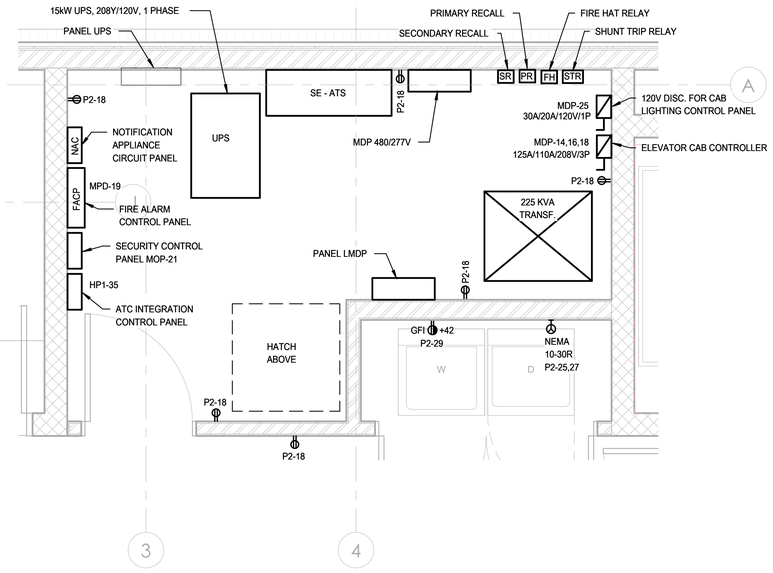
1 ELECTRICAL POWER SECOND FLOOR PLAN

1/8" = 1'-0"



2 ELECTRICAL ENLARGED VIEW ROOM 200C

3/8" = 1'-0"



3 ELECTRICAL ENLARGED UTILITY ROOM POWER PLAN

1/2" = 1'-0"

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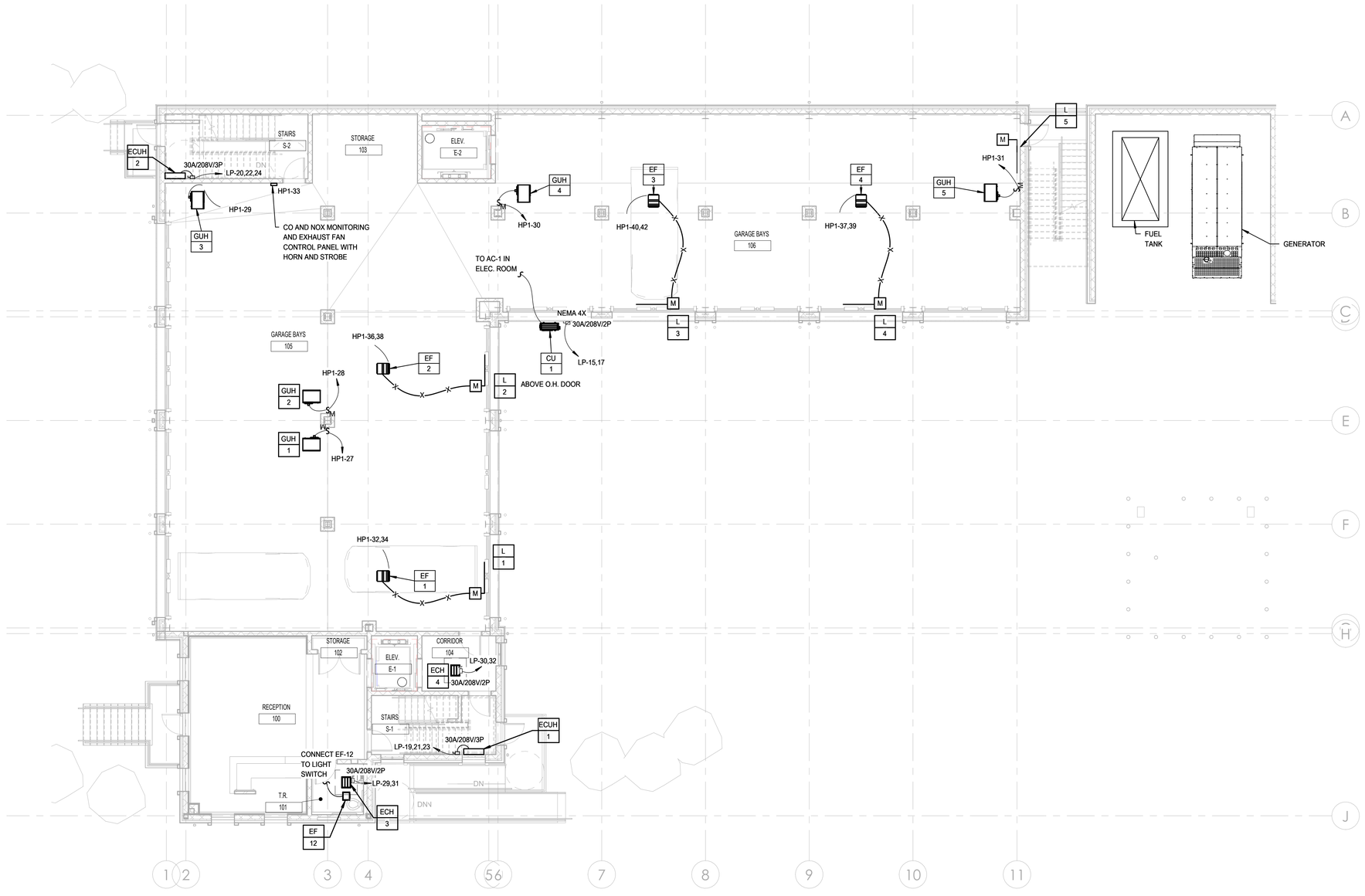
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ELECTRICAL POWER SECOND FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE — ATLANTIC COUNTY — NEW JERSEY

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JOB No.: 0116U200			

Autodesk Docs://Margate Public Works Building/0116U200 - MDP - 2025.rvt



1 ELECTRICAL HVAC POWER FIRST FLOOR PLAN

1/8" = 1'-0"

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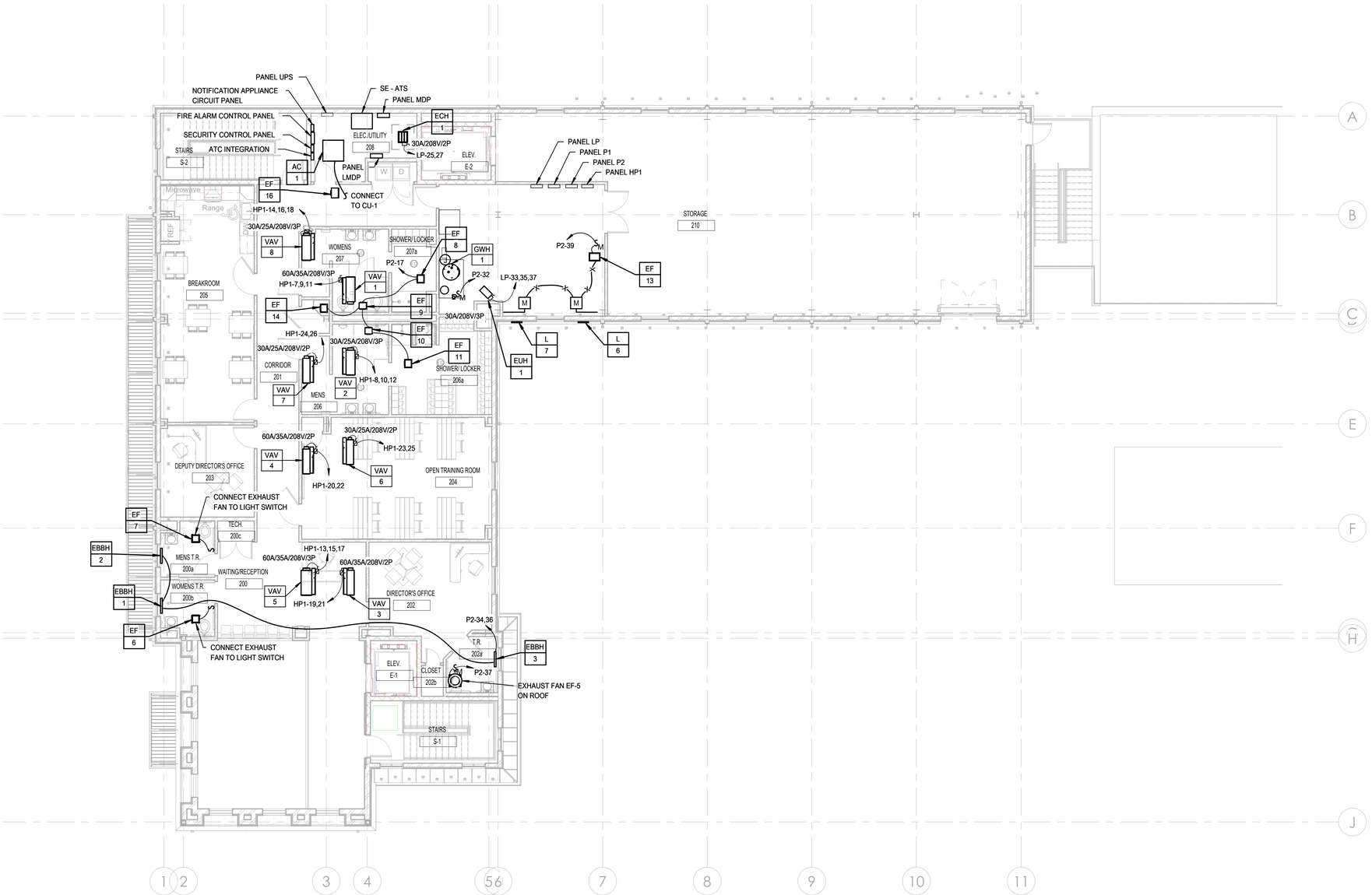
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ELECTRICAL HVAC POWER FIRST FLOOR PLAN

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Attached Docs:Margate Public Works Building\0116U200 - MEP - 2025.rvt



1 ELECTRICAL HVAC POWER SECOND FLOOR PLAN

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1 ELECTRICAL HVAC POWER ROOF PLAN

1/8" = 1'-0"

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RVE 1901
REMINGTON & VERNICK
ENGINEERS
2059 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS: WWW.RVE.COM
Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

DATE: 07/16/2026
BRIAN B. GREGG
NJ PROFESSIONAL ENGINEER LIC. No. 46577

DATE: 07/16/2026
KAVAN K. SMITH
NJ PROFESSIONAL ENGINEER LIC. No. 56794

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No.	REVISION	DATE	BY	CHK

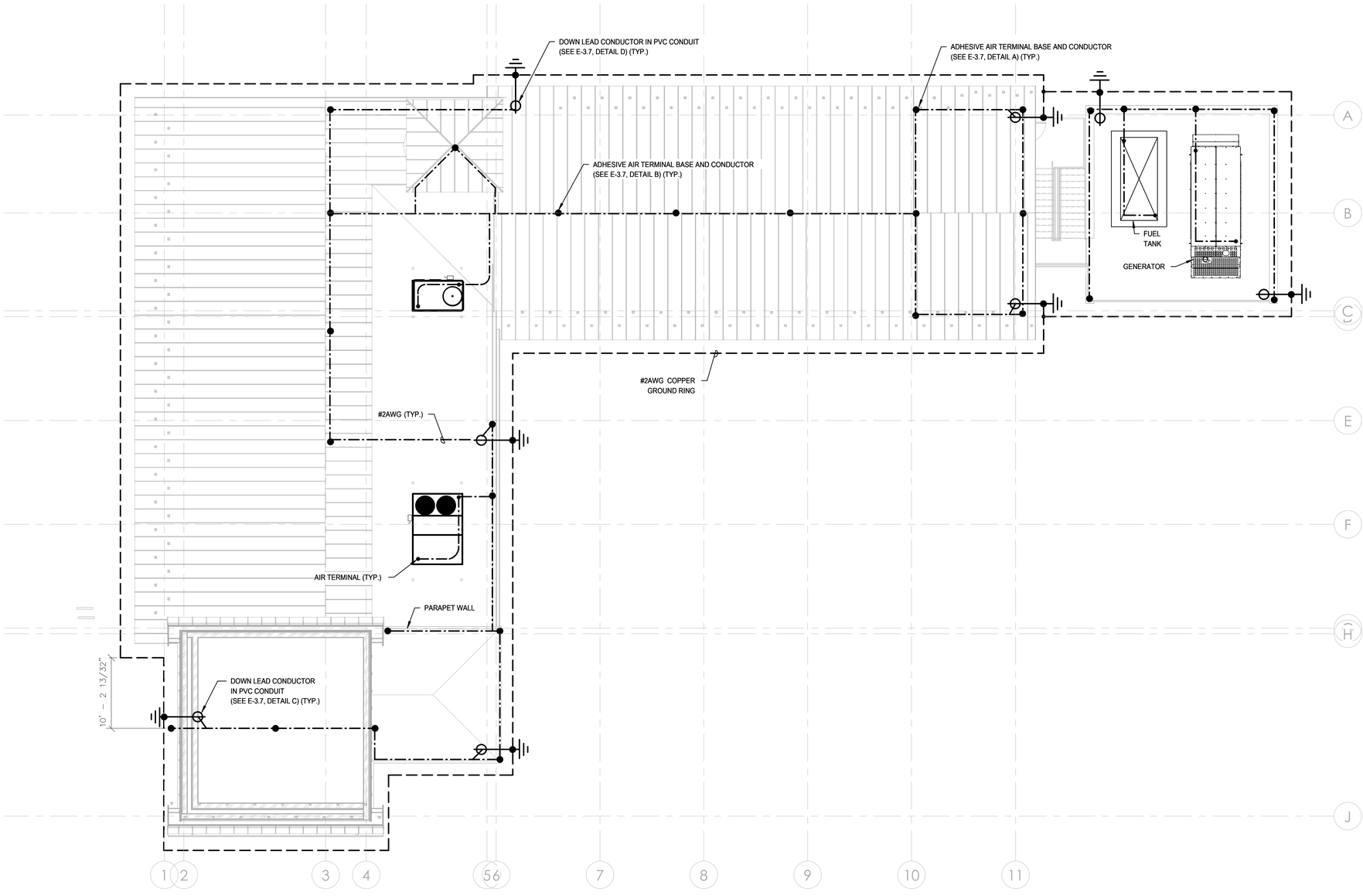
ELECTRICAL HVAC POWER ROOF PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY
CITY OF MARGATE

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
D.M.	K.M.	K.M.	1/8" = 1'-0"

DATE: 12/13/2024
JOB No.: 0116U200
SHEET No.: E-3.5

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1 ELECTRICAL LIGHTNING ROOF PLAN

1/8" = 1'-0"

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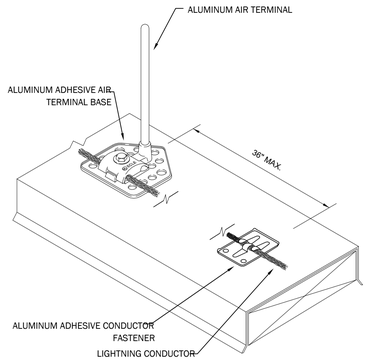
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ELECTRICAL LIGHTNING ROOF PLAN

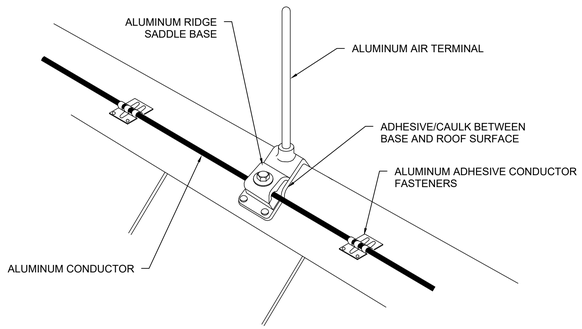
CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
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DATE: 12/13/2024		SHEET No.: E-3.6	
JOB No.: 0116U200			

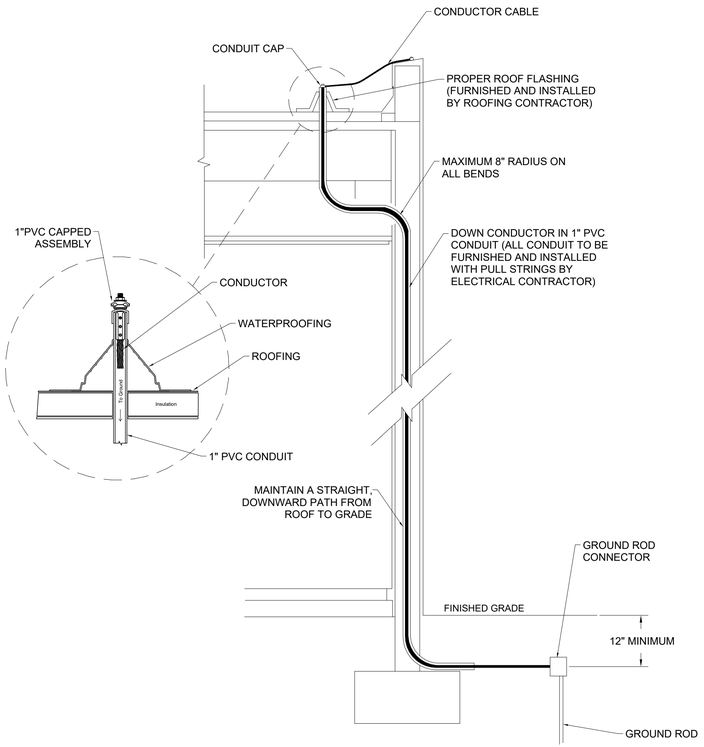
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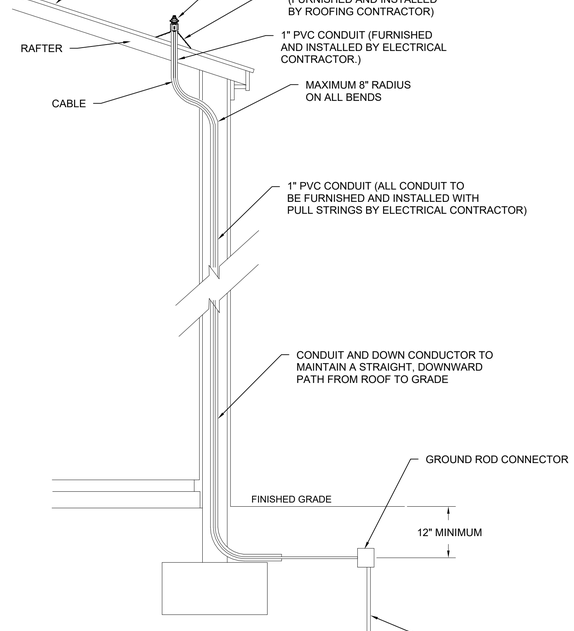
DETAIL A
(NO SCALE)



DETAIL B
(NO SCALE)



DETAIL C
(NO SCALE)



DETAIL D
(NO SCALE)

GENERAL NOTES

1. ALL MATERIALS AND INSTALLATION WILL CONFORM TO THE CODE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION 780, LIGHTNING PROTECTION INSTITUTE 175 AND UNDERWRITERS LABORATORIES 96 AND 96A.
   1.1. FINAL DESIGN/LAYOUT TO BE FIELD COORDINATED AT THE TIME OF INSTALLATION IN ORDER TO ENSURE THE LIGHTNING PROTECTION SYSTEM (LPS) IS IN COMPLIANCE WITH THE LPS STANDARDS LISTED ABOVE.
2. COPPER MATERIALS WILL BE USEDFOR CONTACT WITHCOPPER SURFACES, THE EARTH, ALKALINE-BASE PAINT, CONCRETE OR MASONRY, OR EXCESSIVE MOISTURE SUCH AS AT ROOFS; LEAD OR TIN COATED COPPER WILL BE USED WITHIN 2 FEET OF THE TOP OF A CHIMNEY; AND ALUMINUM MATERIALS WILL BE USED ON ALUMINUM, GALVANIZED STEEL, OR PAINTED METAL SURFACES; IN ACCORDANCE WITH NFPA 780 4.2, UL 96A 7, AND LPI 175 35-40.
3. SOME METAL PARTS OF THE STRUCTURE THAT HAVE A METAL THICKNESS OF 3/16" OR GREATER MAY BE USED AS STRIKE TERMINATION DEVICES AND CONDUCTORS IN ACCORDANCE WITH NFPA 780 4.6.1.4, UL 96A 8.8.2, AND LPI 175 65.
4. CHEMLINK M-1, DURACIL, OR DURALINK ADHESIVE WILL BE USED FOR SECURING TO METAL SURFACES. AN APPROVED ADHESIVE WILL BE USED ON MEMBRANE ROOF AREAS TO SECURE THE CABLES AND BASES IN POSITION. NO MECHANICAL FASTENERS WILL BE DRIVEN INTO MEMBRANE ROOFING.
5. CABLE FASTENERS WILL BE SPACED NO MORE THAN 3' O.C.
6. DUE TO SAFETY CONCERNS, EXOTHERMIC WELDING ABOVE GRADE IS NOT PERMITTED. IN LIEU OF EXOTHERMIC WELD, U.L. LISTED BOLT PRESSURE FITTINGS WILL BE USED IN ACCORDANCE WITH NFPA 780 4.12.3, UL 96A 12.13--14, AND LPI 175 43.
7. DOWN CONDUCTOR WILL BE ROUTED IN CONDUIT (CONDUIT BY OTHERS) CONCEALED INSIDE EXTERIOR WALLS.
8. UNDERGROUND METALLIC PIPING SYSTEMS WILL BE BONDED AS REQUIRED BY NFPA 780 4.14.4, UL 96A 10.4.1, AND LPI 148.
9. METAL BODIES WITHIN 6 FEET OF LPS CONDUCTORS WILL BE BONDED AS REQUIRED BY NFPA 780 4.16, UL 96A 11, AND LPI 175 151.
10. INSTALLATION SHALL BE PERFORMED UNDER THE ONSITE SUPERVISION OF A LPI CERTIFIED MASTER INSTALLER.
11. INSTALLATION SHALL BE PERFORMED BY THE WARREN LIGHTNING ROD COMPANY (BASIS OF DESIGN) 856-854-7000 OR APPROVED EQUAL.

MATERIALS (IN ACCORDANCE WITH UL 96)

CLASS I (≤ 75' IN HEIGHT)

COPPER:

AIR TERMINALS: 3/8" X 12" SOLID COPPER SCREWED ONTO SOLID BRONZE BASES WITH SCREW-PRESSURE CABLE CONNECTORS. NOTE: AIR TERMINAL SHALL EXTEND NOT LESS THAN 10" ABOVE THE OBJECT IT PROTECTS.

CABLE: 29 STRAND, 17 GAUGE SOLID COPPER WEIGHING 192 POUNDS PER 1000'. EXCEEDS CLASS I REQUIREMENTS

ALUMINUM:

AIR TERMINALS: 1/2" X 12" SOLID ALUMINUM SCREWED ONTO SOLID ALUMINUM BASES WITH SCREW-PRESSURE CABLE CONNECTORS. NOTE: AIR TERMINAL SHALL EXTEND NOT LESS THAN 10" ABOVE THE OBJECT IT PROTECTS.

CABLE: 24 STRANDS, 14 GAUGE SOLID ALUMINUM WEIGHING 102 POUNDS PER 1000.'

GROUNDING

GROUND RODS: 1/2" X 9' COPPERCLAD STEEL DRIVEN VERTICALLY AS POSSIBLE INTO THE EARTH. CONNECT CABLES TO TOP OF GROUND RODS BELOW GRADE USING SOLID BRONZE CLAMPS WITH 2 STAINLESS STEEL BOLTS.

LEGEND	
●	AIR TERMINAL
— · —	CABLE, CLASS I
▲	BOND
	DOWN LEAD CONDUCTOR IN PVC CONDUIT, ROOF TO GRADE
	GROUND ELECTRODE

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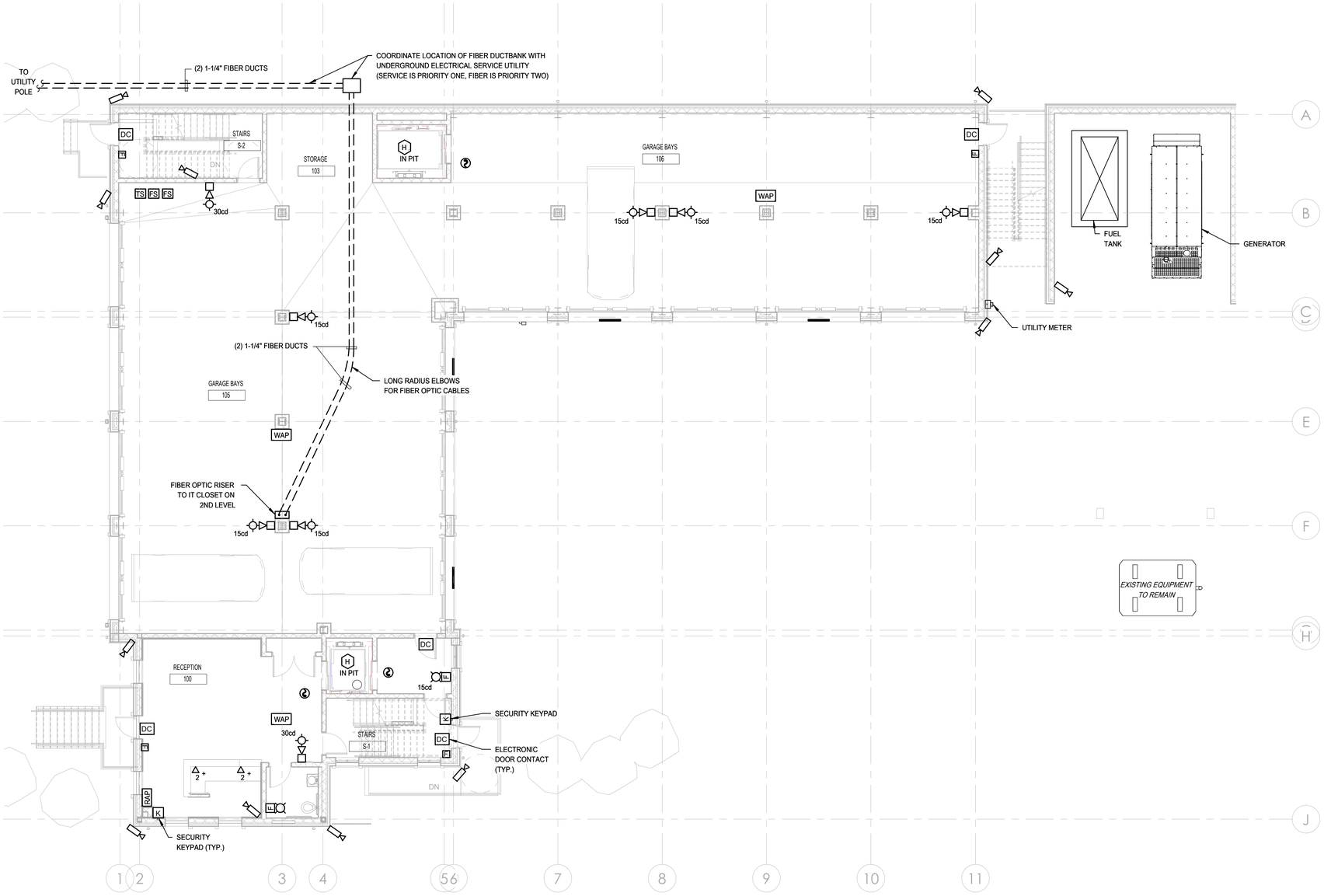
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LIGHTNING PROTECTION DETAILS

CITY OF MARGATE
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NEW JERSEY
CITY OF MARGATE

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D.M.	K.M.	K.M.	
DATE: 12/13/2024		SHEET No.: E-3.7	
JOB No.: 0116U200			

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1 ELECTRICAL SYSTEMS FIRST FLOOR PLAN

1/8" = 1'-0"

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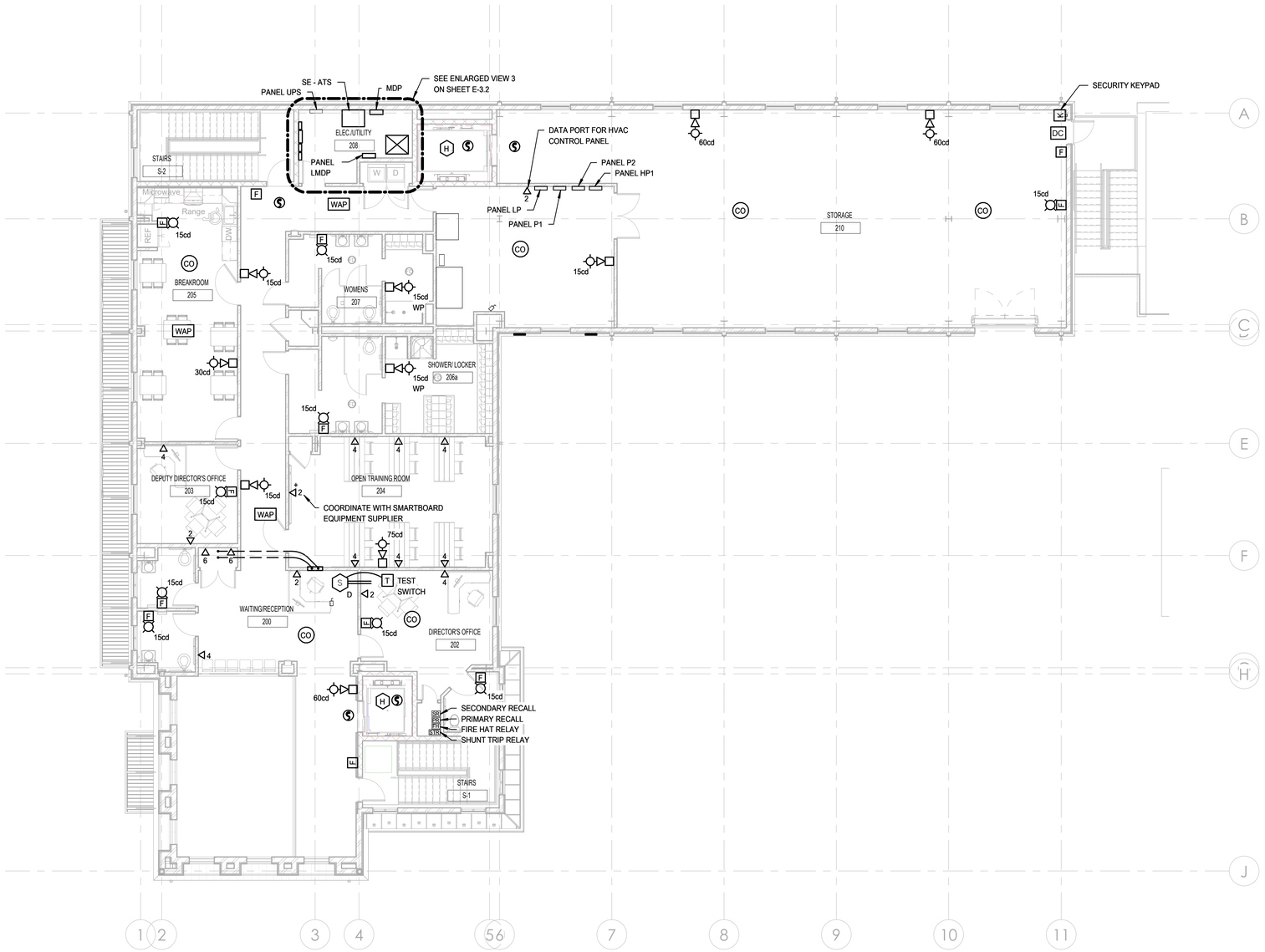
ELECTRICAL SYSTEMS FIRST FLOOR PLAN

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
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SHEET No.: E-4.1

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1 ELECTRICAL SYSTEMS SECOND FLOOR PLAN

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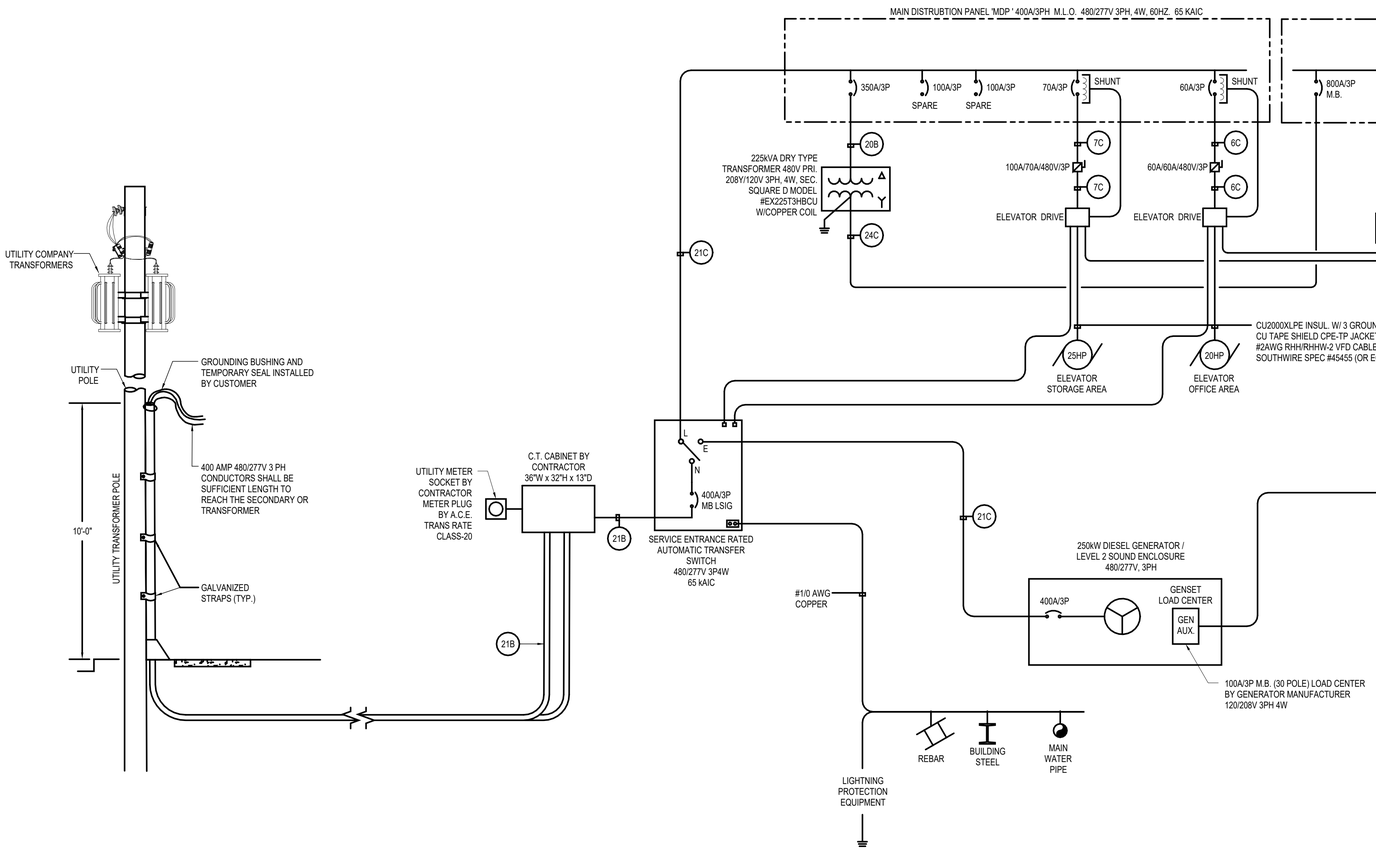
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ELECTRICAL SYSTEMS SECOND FLOOR PLAN

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MARGATE PUBLIC WORKS BUILDING
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CITY OF MARGATE
NEW JERSEY

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JOB No.: 0116U200			

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1 **SINGLE LINE DIAGRAM**
N.T.S.

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ELECTRICAL SINGLE LINE DIAGRAM

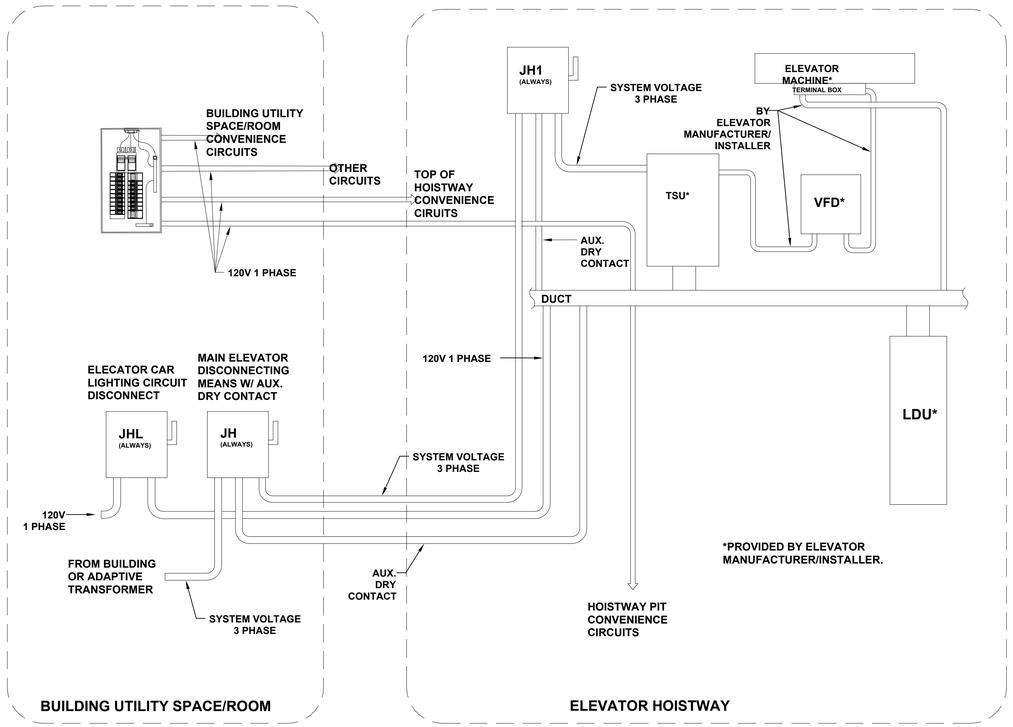
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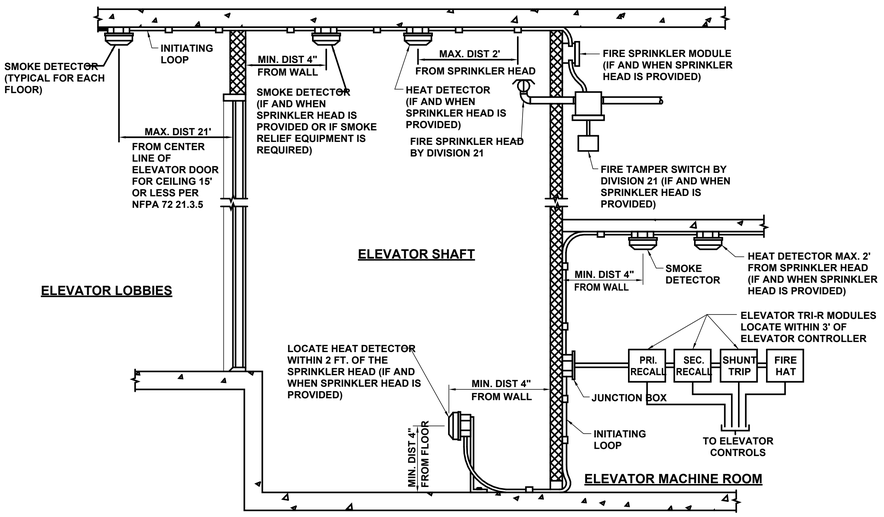
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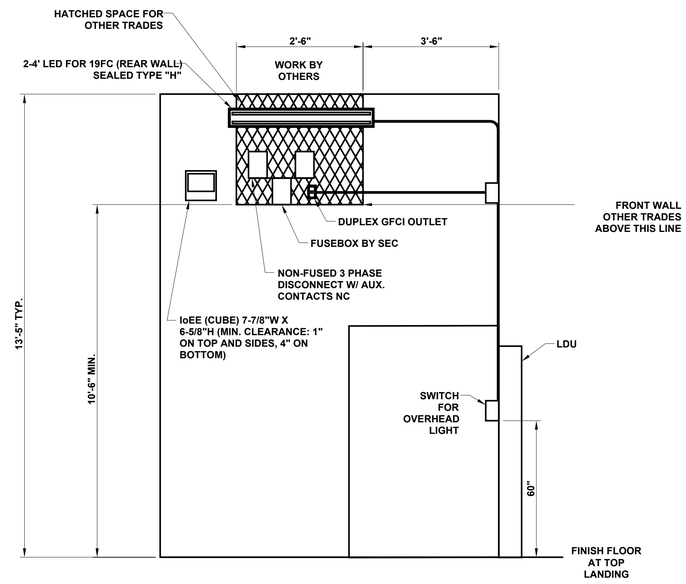
CONTRACTOR RESPONSIBILITY FOR POWER DISTRIBUTION MACHINE ROOM LESS (MRL.) CONFIGURATION

1 N.T.S.



ELEVATOR DEVICE MOUNTING FOR RECALL AND SHUNT TRIP DETAIL

3 N.T.S.



INSIDE SHAFT LOOKING OUT

TOP OF ELEVATOR SHAFT

2 N.T.S.

LOW VOLTAGE SURGE PROTECTION NOTES:

MODULAR SURGE PROTECTOR FOR FIRE ALARM NETWORK COMMUNICATIONS, CONVENTIONAL IDC, ADDRESSABLE SLC, AND 24VDC NAC CIRCUITS. MAX SURGE CURRENT 20KA, SERVICE VOLTAGE OF 24VDC. THE SURGE MODULE IS DESIGNED TO BE SELF-RESTORING DURING SMALL SURGE EVENTS, BUT WILL SELF-SACRIFICE DURING A CATASTROPHIC ELECTRICAL EVENT.

THE SURGE PROTECTION DEVICE DOES NOT REQUIRE AN ADDRESS OR AUXILIARY 24VDC POWER.

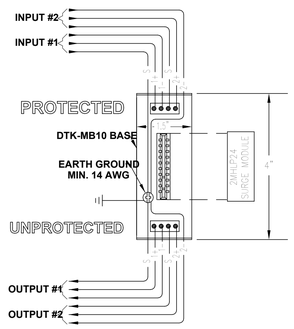
THE SURGE PROTECTION DEVICE MUST BE ACCESSIBLE FOR FUTURE MAINTENANCE. IF NOT INSTALLED NEAR THE FACP, THAN NOTE LOCATION AT THE PANEL FOR FUTURE TROUBLESHOOTING. INSTALL THE SURGE PROTECTION DEVICE WITHIN A PROTECTIVE ENCLOSURE AND LABEL IT 'FIRE ALARM SURGE PROTECTION.'

UNDERGROUND FIRE ALARM CIRCUITS

WHEN FIRE ALARM CABLE IS INSTALLED WITHIN PLASTIC CONDUIT IT MUST BE MIN. 18" DEEP AND INSTALLED WITH SCHEDULE 80 PVC. THIS IS A MORE DURABLE PLASTIC CONDUIT (GREY COLOR). SURGE PROTECTION IS REQUIRED WHEN THE CIRCUIT LEAVES THE BUILDING AS IT TRANSITIONS INTO THE RACEWAY AND THEN AGAIN IF IT IS ROUTED BACK INSIDE.

THE INTERIOR OF ENCLOSURES OR RACEWAYS INSTALLED UNDERGROUND ARE CONSIDERED A WET LOCATION [NEC 300.5(B). FPLP AND FPLR ARE NOT RATED FOR DAMP OR WET LOCATIONS AND DO NOT COMPLY WITH NEC 310.8(C). ONLY DIRECT BURIAL CABLE FOR FIRE ALARMS IS SUITABLE FOR UNDERGROUND APPLICATIONS. THE WIRES THEMSELVES ARE ENCASED IN A SPECIAL THERMOPLASTIC SHEATH THAT SEALS OUT MOISTURE. IT IS ALSO REFERRED TO AS UF CABLE AND COMMONLY IDENTIFIED BY ITS GREY OR BLACK COATING. DIRECT BURIAL FIRE ALARM CABLE NOT PROTECTED IN CONDUIT MUST BE INSTALLED AT A DEPTH OF 24" BELOW GRADE WITH EITHER SCHEDULE 80 PVC OR RIGID CONDUIT STUBS UP TO YOUR BOX. WHEN FIRE ALARM CABLE IS INSTALLED WITHIN PLASTIC CONDUIT IT MUST BE 18" DEEP AND INSTALLED WITH SCHEDULE 80 PVC PLASTIC CONDUIT (GREY COLOR).
RUN DIRECT BURIAL FIRE ALARM CABLE AFTER THE SURGE SUPPRESSOR THEY ARE POWER-LIMITED WATERRESISTANT CABLES DESIGNED TO BE USED FOR INDOOR/OUTDOOR FIRE ALARM SYSTEMS. SIEMENS SYSTEMS ARE COMPATIBLE WITH ANY UL LISTED DIRECT BURIAL POWER-LIMITED FIRE ALARM CABLE, SUCH AS WEST PENN AQUASEAL, HONEYWELL GENESIS 4100 SERIES, 1X TECHNOLOGIES 1XTECH AND ANIXTER WATERDOG SERIES.

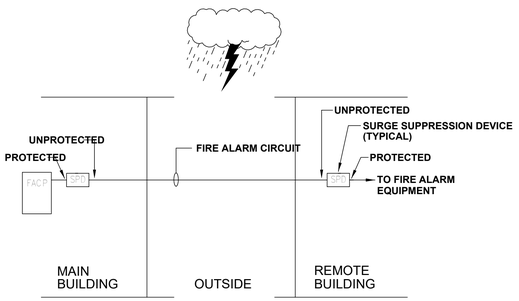
OMIT SHIELD TERMINATIONS IF NOT APPLICABLE



TRANSIENT SURGE PROTECTION NOTE:

EACH FIRE ALARM CIRCUIT WHICH EXTENDS BEYOND THE BOUNDARIES OF A BUILDING TO ANOTHER BUILDING REQUIRES A A SURGE PROTECTION DEVICE AS THE CIRCUIT EXITS THE BUILDING AND WHEN IT ENTERS THE BUILDING, PER NFPA 72 AND NEC. THE SURGE SUPPRESSION DEVICE(S) MUST BE MOUNTED INSIDE.
THIS DESIGN WILL PROTECT THE CIRCUITS AND EQUIPMENT IN EACH BUILDING FROM AN OUTSIDE ELECTRICAL SURGE.

THESE SURGE PROTECTION PRODUCTS ARE INTENDED FOR USE ONLY ON FIRE ALARM CIRCUITS, DO NOT SHARE WITH OTHER TRADES.



24VDC SURGE PROTECTION WIRING AND PERFORMANCE INFORMATION

4 N.T.S. - FOR INSTALLER'S REFERENCE

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Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

DATE: 07/16/2026
BRIAN B. GREGG
NJ PROFESSIONAL ENGINEER LIC. No. 46577

DATE: 07/16/2026
KAVANA SMITH
NJ PROFESSIONAL ENGINEER LIC. No. 56794

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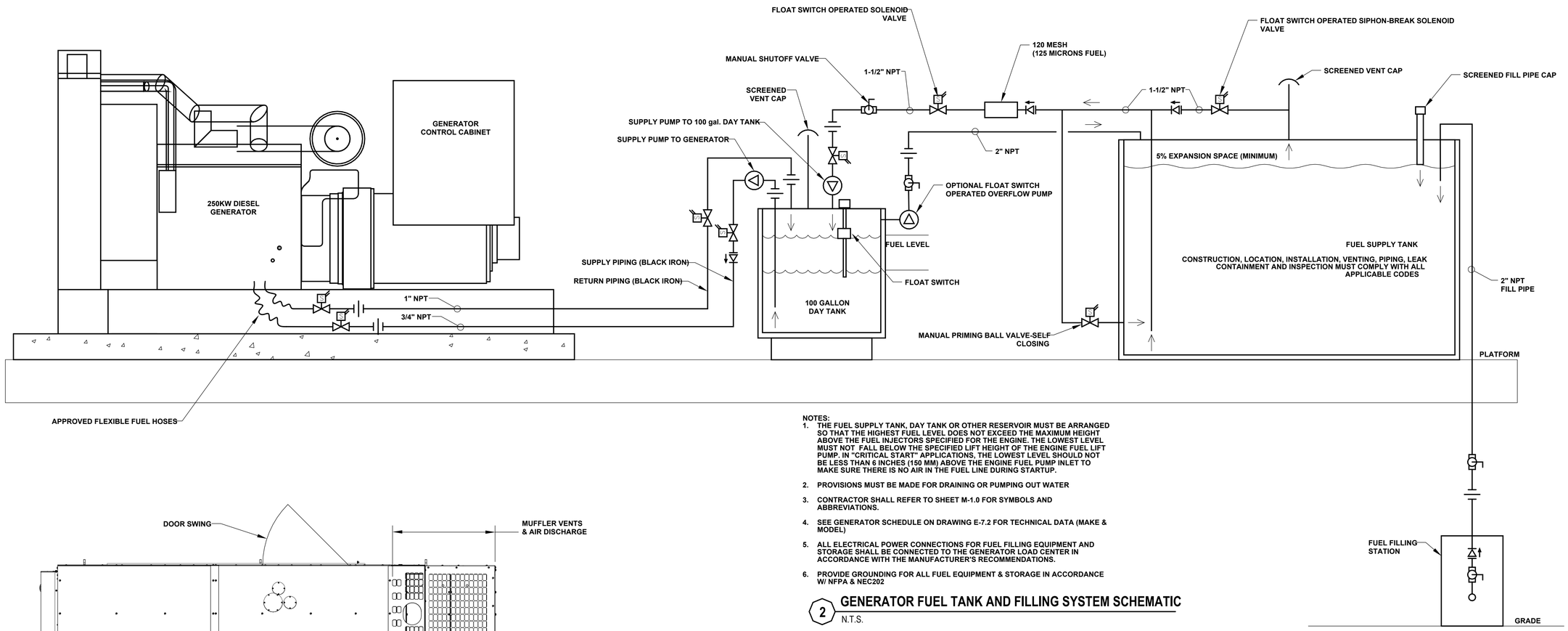
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ELECTRICAL DETAILS

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE
ATLANTIC COUNTY
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
D.M.	K.M.	K.M.	
DATE: 12/13/2024		SHEET No.: E-6.1	
JOB No.: 0116U200			

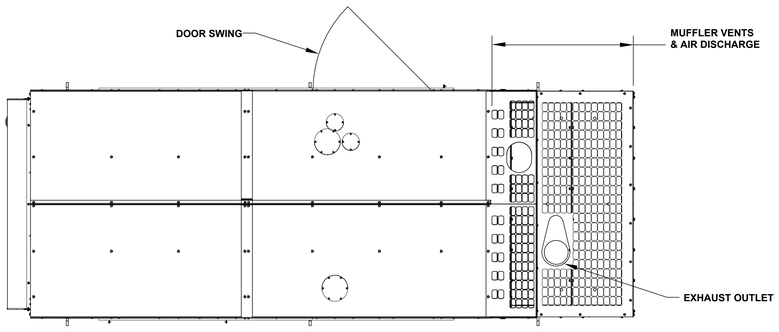
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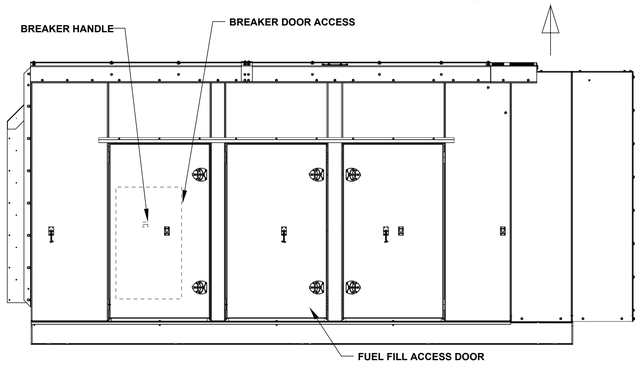


NOTES:

1. THE FUEL SUPPLY TANK, DAY TANK OR OTHER RESERVOIR MUST BE ARRANGED SO THAT THE HIGHEST FUEL LEVEL DOES NOT EXCEED THE MAXIMUM HEIGHT ABOVE THE FUEL INJECTORS SPECIFIED FOR THE ENGINE. THE LOWEST LEVEL MUST NOT FALL BELOW THE SPECIFIED LIFT HEIGHT OF THE ENGINE FUEL LIFT PUMP. IN "CRITICAL START" APPLICATIONS, THE LOWEST LEVEL SHOULD NOT BE LESS THAN 6 INCHES (150 MM) ABOVE THE ENGINE FUEL PUMP INLET TO MAKE SURE THERE IS NO AIR IN THE FUEL LINE DURING STARTUP.
2. PROVISIONS MUST BE MADE FOR DRAINING OR PUMPING OUT WATER
3. CONTRACTOR SHALL REFER TO SHEET M-1.0 FOR SYMBOLS AND ABBREVIATIONS.
4. SEE GENERATOR SCHEDULE ON DRAWING E-7.2 FOR TECHNICAL DATA (MAKE & MODEL)
5. ALL ELECTRICAL POWER CONNECTIONS FOR FUEL FILLING EQUIPMENT AND STORAGE SHALL BE CONNECTED TO THE GENERATOR LOAD CENTER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE GROUNDING FOR ALL FUEL EQUIPMENT & STORAGE IN ACCORDANCE W/ NFPA & NEC202

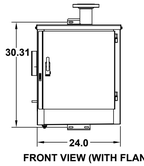
2 GENERATOR FUEL TANK AND FILLING SYSTEM SCHEMATIC
N.T.S.





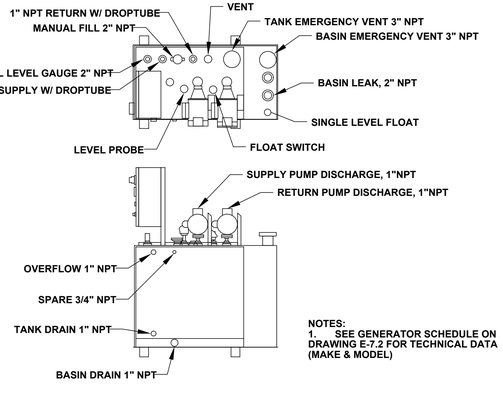
NOTES:
1. SEE GENERATOR SCHEDULE ON DRAWING E-7.2 FOR TECHNICAL DATA (MAKE & MODEL)

1 GENERATOR DETAIL
N.T.S.



NOTES:
1. SEE GENERATOR SCHEDULE ON DRAWING E-7.2 FOR TECHNICAL DATA (MAKE & MODEL)

3 FUEL FILLING STATION DETAIL
N.T.S.



NOTES:
1. SEE GENERATOR SCHEDULE ON DRAWING E-7.2 FOR TECHNICAL DATA (MAKE & MODEL)

4 DAY TANK DETAIL
N.T.S.

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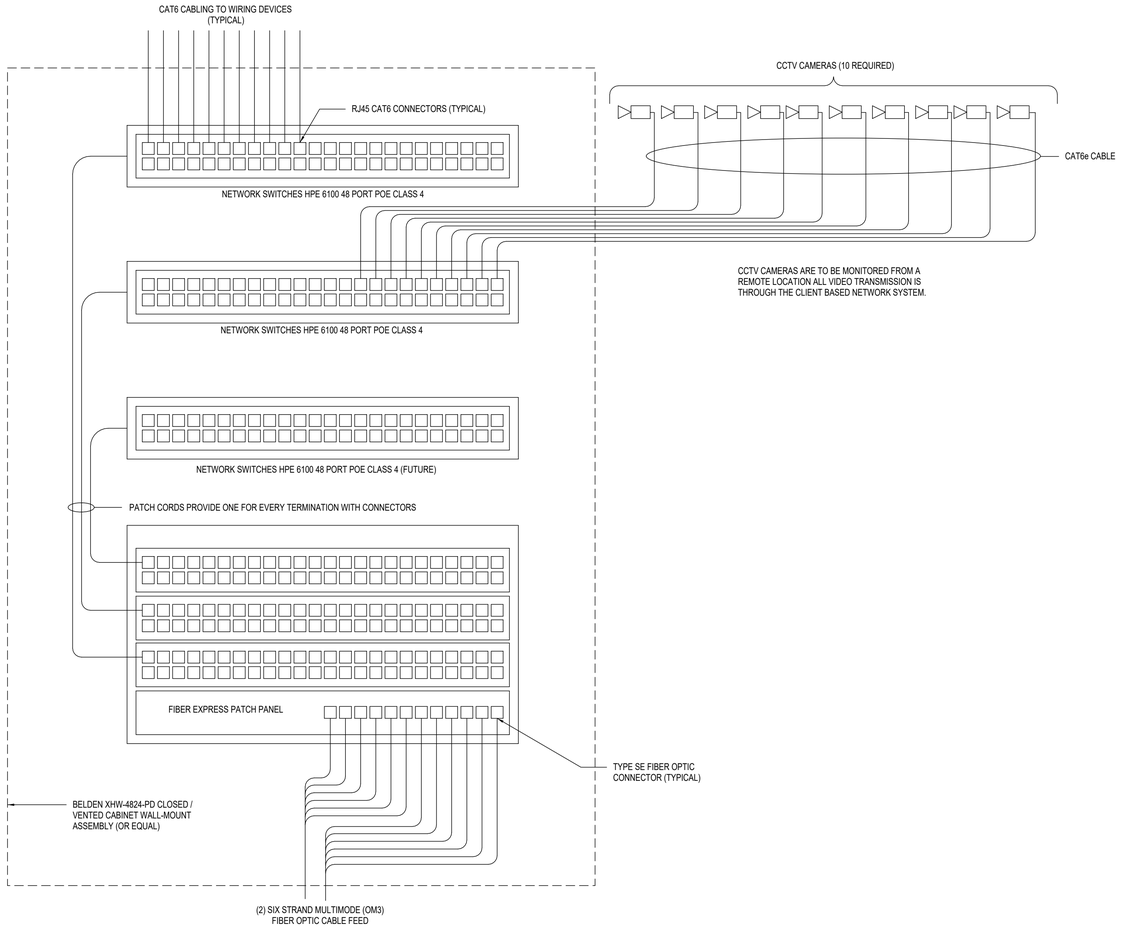
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MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY
CITY OF MARGATE

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
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DATE: 12/13/2024		SHEET No.: E-6.2	
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FIBER OPTIC / DATA DEMARCATION CABINET SINGLE LINE DIAGRAM

1 N.T.S.

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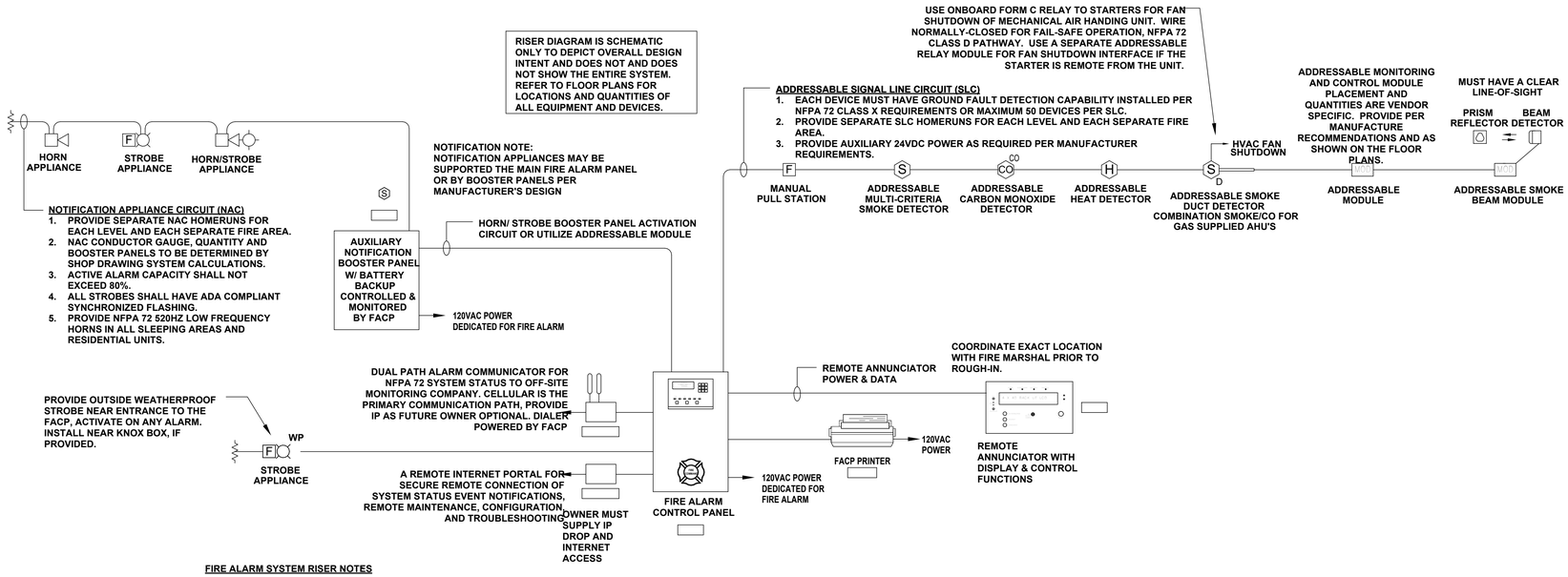
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IT / DATA CABINET DETAIL

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
CITY OF MARGATE ATLANTIC COUNTY NEW JERSEY

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FIRE ALARM SYSTEM RISER NOTES

1. THIS RISER DIAGRAM IS BASED ON SIEMENS BUILDING TECHNOLOGIES DESIGO FIRE ALARM CONTROL PANEL WITH HORN & STROBE EVACUATION APPLIANCES. IT IS A REPRESENTATION OF THE INTENDED SYSTEM DESIGN FOR THIS PROJECT. SEE THE FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF FIELD EQUIPMENT. SEE THE PROJECT SPECIFICATIONS FOR PERFORMANCE, CAPACITY AND CODE COMPLIANCE REQUIREMENTS. THIS DRAWING DEPICTS SCHEMATIC INTERCONNECTIONS OF WIRING. EXACT ROUTING OF CONDUITS AND WIRING SHALL BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR TO SUIT FIELD CONDITIONS AND AS SUBMITTED IN THE SHOP DRAWINGS. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS. QUANTITY AND SIZE OF CONDUCTORS TO BE DETERMINED BY SIEMENS.
2. THE MAIN FIRE ALARM CONTROL PANEL WILL PROVIDE THE PRIMARY OPERATOR'S INTERFACE WITH LCD DISPLAY, FOR COMPLETE SYSTEM ANNUNCIATION/ CONTROL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
3. THE SEQUENCE OF EVACUATION FOR THIS PROJECT IS 100% OCCUPANT EVACUATION UPON ANY GENERAL ALARM. NFPA 72 CHAPTER 24 NOTIFICATION APPLIANCE CIRCUIT AND EQUIPMENT SURVIVABILITY REQUIREMENTS DO NOT APPLY.
4. PROVIDE AUXILIARY FIRE ALARM SIGNAL PANEL(S) W/ BATTERY BACKUP AS REQUIRED TO SUPPORT NOTIFICATION APPLIANCE LOADS, PER MANUFACTURER'S RECOMMENDATIONS. INSTALL A SMOKE DETECTOR WITHIN 5FT OF A NAC BOOSTER IF AREA COVERAGE NOT PROVIDED.
5. CONTROL UNITS, POWER SUPPLIES AND BATTERY CABINETS SHALL BE INSTALLED SO THAT WORKING CLEARANCES ARE MAINTAINED AROUND UNITS IN ACCORDANCE WITH NFPA 70 NATIONAL ELECTRIC CODE (NEC) AND MANUFACTURER'S ALLOWANCES. PANEL MOUNTING SHALL BE SUCH THAT ALL SWITCHES AND OPERATOR CONTROLS ARE NO LESS THAN 36 INCHES AND NO MORE THAN 72 INCHES ABOVE THE FINISHED FLOOR.
6. WIRING SHALL BE INSTALLED SO THAT EQUIPMENT CAN BE SERVICED OR REMOVED WITHOUT DISCONNECTING OR MOVING UNRELATED CIRCUITS. ALL WIRING WITHIN CONTROL UNITS, JUNCTION BOXES, AND TERMINAL CABINETS SHALL BE NEATLY TRIMMED, DRESSED, LABELED, AND INSTALLED IN GUTTERS OR CHANNELS. SEE SPECIFICATIONS FOR MAXIMUM ALLOWABLE CIRCUIT LOADING AND WIRE SIZE REQUIREMENTS. COORDINATE FINAL CIRCUIT QUANTITIES. AND CABLE TYPES WITH THE SYSTEM SUPPLIER'S SHOP DRAWINGS.
7. CONNECT PRIMARY 120VAC POWER TO 20A/1P CIRCUIT BREAKER DEDICATED FOR FIRE ALARM. SECONDARY POWER BATTERY BACKUP (STANDBY & ALARM) SHALL BE SIZED PER NFPA 72 REQUIREMENTS.
8. PANEL NETWORK WIRING, INCLUDING DATA COMMUNICATIONS AND AUDIO COMMUNICATIONS, SHALL BE WIRED CLASS X (FORMER CLASS A, STYLE 7) WITH SEPARATE OUTGOING AND RETURN LOOPS.
9. ADDRESSABLE DEVICE SLC'S SHALL BE NFPA 72 CLASS B. PROVIDE PROVIDE GROUND FAULT ISOLATION DETECTION BETWEEN EACH ADDRESSABLE DEVICE AND NFPA 72 CLASS X CIRCUITS IF QUANTITY OF DEVICES PER SLC EXCEED 50 FOR NFPA 72 DETECTION SURVIVABILITY AND REDUCED TROUBLE SHOOTING TIME.
10. NOTIFICATION APPLIANCE NAC'S SHALL BE NFPA 72 CLASS B. INDIVIDUALLY ISOLATED SO THAT A SINGLE WIRING FAULT WILL NOT EFFECT THE OPERATION OF CIRCUIT(S) SERVING ANY OTHER FLOOR OR EVACUATION SIGNALING ZONE.
11. STROBE CANDELAS SETTINGS MUST BE SIZED PER NFPA 72 REQUIREMENTS BY THE FIRE ALARM VENDOR AND SHOWN ON THE SHOP DRAWINGS.
12. A COMPLETE SET FOR FIRE ALARM PRODUCT CUTSHEETS, FIRE ALARM INSTALLATION SHOP DRAWINGS, AND BATTERY/ VOLTAGE/ LOAD CALCULATIONS MUST BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION.
13. THE OFF-SITE COMMUNICATOR SHALL PROVIDE GENERAL (ALARM/ TROUBLE/ SUPERVISORY) AND ABILITY FOR CONTACT/ GROUPED EVENT ID REPORTING FROM THE FIRE ALARM CONTROL PANEL (FACP) TO A CENTRAL OR REMOVE RECEIVING STATION. IT SHALL OFFER THREE SELECTABLE REPORTING PATHS WHICH INCLUDE: CELLULAR ONLY, IP ONLY, OR IP PRIMARY/CELLULAR BACKUP. FOR THIS PROJECT, UTILIZE CELLULAR COMMUNICATIONS AS THE PRIMARY MEANS OF COMMUNICATION, PER NFPA 72 REQUIREMENTS. IP COMMUNICATIONS FOR OWNER SELECTED/PROVIDED FUTURE OPTION. THE COMMUNICATOR SHALL RECEIVE ITS POWER AND SUPERVISION FROM THE FACP AND BE SUPPLIED WITH A LOCAL CELLULAR ANTENNA. WHEN THE MINIMUM CELLULAR SIGNAL STRENGTH PER THE MANUFACTURE'S INSTALLATION INSTRUCTIONS CANNOT BE MET, PROVIDE AN EXTERNAL ANTENNA LOCATED AND INSTALLED PER FIELD CONDITIONS, WITH THE OWNERS APPROVAL. FOR UNSUPERVISED COMMUNICATIONS BETWEEN THE OFF-PREMISES TRANSMITTER AND THE FACP, THE WIRING MUST BE INSTALLED IN CONDUIT AND HAVE A MAXIMUM DISTANCE OF 20 FEET PER UL.
14. COORDINATE EXACT DEVICE LOCATIONS AND BACKBOX/MOUNTING REQUIREMENTS WITH THE ARCHITECTURAL ELEVATIONS, MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE SYSTEM SUPPLIER'S SHOP DRAWINGS, AND THE WORK OF RELATED TRADES. INSTALL ALL CEILING-MOUNTED EQUIPMENT IN THE CENTER OF A LAY-IN TILE.

ADDRESSABLE NON-VOICE FIRE ALARM RISER DIAGRAM

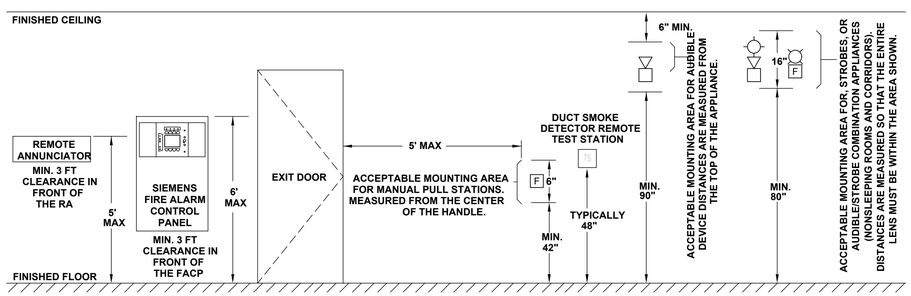
NOT SCALE

NFPA 72 - 2016 DOCUMENTATION REQUIREMENTS

THE DOCUMENTATION CABINET SHALL BE SIZED SO THAT IT CAN CONTAIN THE FOLLOWING DOCUMENTATION:

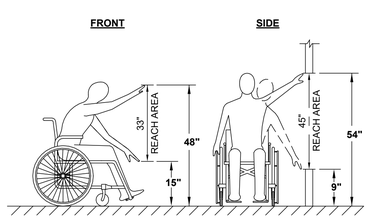
- SITE-SPECIFIC SOFTWARE
- OWNER'S MANUAL
- AS-BUILT PLANS AND SYSTEM CALCULATIONS

THE BUILDING OWNER OR THE BUILDING OWNER'S REPRESENTATIVE SHALL, ON AN ANNUAL BASIS, REVIEW ANY ELECTRONIC DOCUMENTATION MEDIA FORMATS AND ASSOCIATED INTERFACING HARDWARE FOR COMPATIBILITY AND UPDATE IF NECESSARY.



FIRE ALARM EQUIPMENT MOUNTING HEIGHTS DIMENSIONS

NOTE: THIS FIGURE IS BASED ON THE THE ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG)



ADA WHEELCHAIR ACCESSIBILITY DIMENSIONS

MANUAL PULL STATION MOUNTING HEIGHT REFERENCES

CODE	MINIMUM	MAXIMUM
NFPA-72	39"	54"
IBC	42"	48"
ADAAG	-	[1] 48"

[1] THE MOST RESTRICTIVE FRONT REACH DISTANCE

HARMONIZED FIRE ALARM EQUIPMENT MOUNTING DISTANCE REQUIREMENTS - IBC/ADA/NFPA/ANSI

NOT TO SCALE--FOR INSTALLER'S REFERENCE

TYPICAL FIRE ALARM EQUIPMENT MOUNTING NOTES:

THESE MOUNTING DIMENSIONS COMPLY WITH THE FOLLOWING:
- NFPA 72 CHAPTER 5 & 7
- CABO/ANSI A117.1
- IBC CHAPTER 9
- ADA PARAGRAPH 4.2.5 & 4.2.6
- THE ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS & FACILITIES (ADAAG)

FOR LOW CEILINGS WHERE THE PRESCRIBED MOUNTING HEIGHTS FOR THE SIGNALING APPLIANCES CAN NOT BE MET, INSTALL THE APPLIANCE 6" FROM THE CEILING.

ALL DEVICE & APPLIANCE HEIGHTS SHOULD BE CONSISTENT FOR THE ENTIRE PROJECT.

FOR COMBINATION AUDIO/ VISUAL APPLIANCES, THE STROBE PLACEMENT TAKES PRECEDENCE.

SPECIAL ADA/HEARING IMPAIRED SLEEPING AREAS NOTIFICATION NOTES:

A VISUAL APPLIANCE USED TO AWAKEN A SLEEPING, HEARING IMPAIRED PERSON SHALL BE PERMANENTLY INSTALLED AND LOCATED 16 FEET MAXIMUM FROM THE PILLOW OR HEAD OF THE BED LOCATION, MEASURED HORIZONTALLY. WALL MOUNTED APPLIANCES LOCATED AT LEAST 24 INCHES BELOW THE CEILING SHALL HAVE A MINIMUM EFFECTIVE INTENSITY OF 110 CANDELA. CEILING MOUNTED APPLIANCES AND WALL MOUNTED APPLIANCES LOCATED LESS THAN 24 INCHES BELOW THE CEILING ARE TO HAVE A MINIMUM EFFECTIVE INTENSITY OF 177 CANDELA.

IF A SUITE CONTAINS MORE THAN ONE BEDROOM, A STROBE APPLIANCE SHALL BE PROVIDED IN EACH SLEEPING AREA. LOCATE ADDITIONAL STROBE LIGHTS IN ANY LIVED-IN ROOM WHERE HEARING IMPAIRED INDIVIDUALS WOULD NEED TO BE NOTIFIED OF AN ALARM. THE CANDELA IN THESE AREAS ARE SIZED PER STANDARD NFPA 72 ROOM SPACING REQUIREMENTS.

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CITY OF MARGATE

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D.M.	K.M.	K.M.	

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SHEET No.: E-6.4

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	ALARM SIGNAL	TROUBLE SIGNAL	SUPERVISORY SIGNAL	ANNUNCIATE @ FACP	ANNUNCIATE @ RA	OFF-SITE SIGNAL SENT TO SUPERVISING STATION	ACTIVATE EVACUATION APPLIANCES	ACTIVATION OF ASSOCIATED HVAC UNIT	RELEASE SMOKE DOOR HOLDERS	RELEASE DOOR LOCKS	RELEASE EGRESS MAG LOCKS	LOCAL NFPA 72 TEMP/PRI. TONE	LOCAL NFPA 72 TEMP/SEC. TONE	LOCAL NFPA TONE TEMPORAL 4 TONE
MANUAL PULL STATION	●			●	●	●	●		●	●				
AREA DETECTOR (SMOKE, HEAT, OR BEAM)	●			●	●	●	●		●	●				
FIRE SPRINKLER WATERFLOW	●			●	●	●	●		●	●				
FIRE EXTINGUISHING SYSTEM AGENT RELEASE				●	●	●	●		●	●				
FACP, NAC BOOSTER OR DACT FAULT		●		●	●	●								
SLC/NAC EQUIPMENT OR CIRCUIT FAULT		●		●	●	●								
SLC/NAC OPEN-CIRCUIT		●		●	●	●								
HVAC DUCT SMOKE DETECTOR			●	●	●	●		●						
SPRINKLER TAMPER SWITCH	●		●	●	●	●			●					
CARBON MONOXIDE DETECTOR	●		●	●	●	●		●				●		
FIRE PUMP RUNNING			●	●	●	●								
AREA SMOKE W/ LOCAL SOUNDER BASE			●	●	●	●					●			

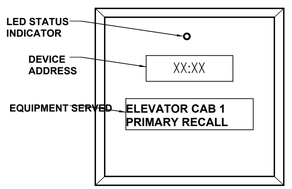
GENERAL FIRE ALARM RESPONSE CATEGORIES
NFPA 72 [2016] 3.3.58 AND [2021] 3.3.61 DEFINES FOUR TYPES OF FIRE ALARM SYSTEM SIGNAL CATEGORIES WHICH ARE IN RESPONSE TO ENVIRONMENTAL OR EQUIPMENT CONDITIONS.

- **PRE-ALARM - A SIGNAL CATEGORY INDICATING A POTENTIAL FIRE HAZARD, WITH AVAILABLE TIME FOR INVESTIGATION.**
- **ALARM - A SIGNAL CATEGORY INDICATING AN IMMEDIATE FIRE HAZARD WITH THREAT TO LIFE AND PROPERTY.**
- **TROUBLE - A SIGNAL CATEGORY INDICATING A FAULT WITHIN THE FIRE ALARM SYSTEM WHICH MAY PREVENT ITS PROPER OPERATION.**
- **SUPERVISORY - A SIGNAL CATEGORY INDICATING A PROBLEM OR ABNORMAL SITUATION WITH LIFE SAFETY EQUIPMENT THAT IS MONITORED BY THE FIRE ALARM SYSTEM.**

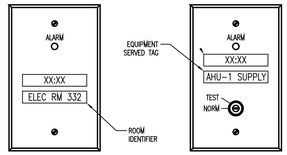
FIRE ALARM SYSTEM OPERATION NOTES:

1. **THIS NFPA 72 OPERATIONAL MATRIX IS BASED ON A SIEMENS FIRE ALARM SYSTEM. THE CONTRACTOR SHALL SUBMIT A COMPREHENSIVE SEQUENCE OF OPERATIONS INCUDED WITH THE INSTALLATION SHOP DRAWINGS.**
4. **IN NORMAL STANDBY OPERATION, A GREEN POWER ON LED SHOULD BE ILLUMINATED ON THE FACP. THE LCD DISPLAY WILL SHOW THE SYSTEM NAME, "SYSTEM NORMAL" ANNOUNCEMENT AND THE CURRENT DATE, DAY, AND TIME.**
5. **ALL SYSTEM STATUS CONDITIONS SHALL BE MIRRORED AT REMOTE ANNUCIATOR(S), AS PROVIDED.**
6. **LOW FREQUENCY 520HZ AUDIBLE NOTIFICATION TONES SHALL BE USED IN ALL SLEEPING ROOMS AND RESIDENTIAL UNITS.**
7. **CARBON MONOXIDE DETECTORS SHALL INITIATE A GENERAL ALARM IF REQUIRED BY THE AHJ.**
8. **ALL ADDRESSABLE DETECTORS, MANUAL PULLS, MONITORING MODULES AND REMOTE LAMPS SHALL PROVIDE VISIBLE INDICATION FOR STATUS:**
   - **8.1. NORMAL: GREEN, LED FLASHES**
   - **8.2. ALARM: RED, LED FLASHES**
   - **8.3. TROUBLE: AMBER, LED FLASHES**

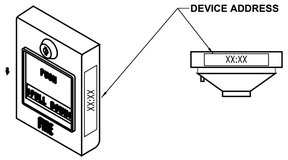
FIRE ALARM SEQUENCE OF OPERATIONS MATRIX



ADDRESSABLE MODULE



REMOTE STATUS INDICATORS AND TEST SWITCHES



MANUAL PULL STATION



DETECTOR

APPLIANCE CIRCUIT IDENTIFICATION AND POSITION ON THE CIRCUIT LABELED ON THE BOTTOM OF THE APPLIANCE

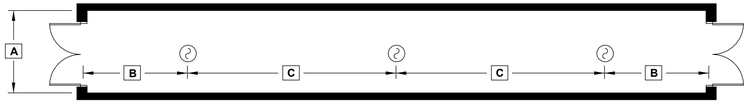
NOTIFICATION APPLINACE

IDENTIFICATION NOTES:

1. **ALL PRE-PRINTED LABELS SHALL BE PERMANENT WITH ADHESIVE BACKING: BRADY, 3M, BROTHER P-TOUCH OR EQUAL. DYMO TAPE OR HAND-WRITTEN LABELS ARE NOT ALLOWED.**
2. **ALL LABELS SHALL BE WHITE LABEL WITH BLACK TEXT.**
3. **LABEL DESIGNATIONS SHALL BE CLOSELY COORDINATED AND CONSISTENT FOR THE ENTIRE PROJECT. THEY MUST MATCH BOTH THE FIRE ALARM CONTROL PANEL PROGRAM AND THE AS-BUILT SHOP DRAWINGS DOCUMENTS.**
4. **AFTER INSTALLATION, PLACE ALL LABELS ON THE EQUIPMENT AND IN CLEAR VIEW AND RECOGNITION FROM THE FLOOR LEVEL.**
5. **FOR HOSPITALS THAT USE JOINT COMMISSION ACCREDITATION, FOLLOW THE SITE STANDARDS AND SUBMIT LABEL NAMING CONVENTION FOR APPROVAL PRIOR TO INSTALLATION.**

FIRE ALARM FIELD EQUIPMENT LABELING REQUIREMENTS

NOT TO SCALE--FOR INSTALLER'S REFERENCE



SMOKE DETECTOR SPACING IN CORRIDORS PER NFPA 72			
CORRIDOR WIDTH [A]	MAX. DISTANCE FROM DETECTOR AND END OF CORRIDOR [B]	MAX. DISTANCE BETWEEN DETECTORS [C]	AREA COVERAGE PER DETECTOR
8'	20' - 7"	41' - 2"	330 SQ. FT
10'	20' - 4"	40' - 8"	406 SQ. FT
12'	20' - 1"	40' - 2"	482 SQ. FT
14'	19' - 9"	39' - 6"	553 SQ. FT
16'	19' - 5"	38' - 10"	621 SQ. FT
18'	18' - 11"	37' - 10"	681 SQ. FT
20'	18' - 5"	36' - 10"	737 SQ FT

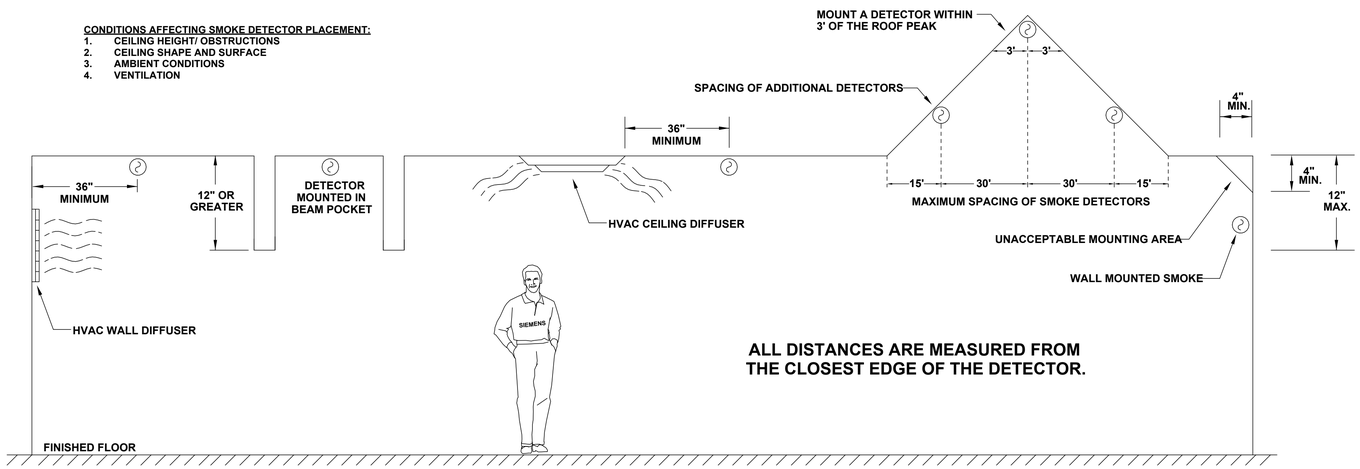
THIS TABLE IS BASED ON THE UL LISTED SPACING OF A SIEMENS ADDRESSABLE SMOKE DETECTOR OF 30', 900 SQ FT OF COVERAGE. NFPA 72 PERMITS THE 30' CENTER-TO-CENTER SPACING TO BE MODIFIED IN HALLWAYS AND OTHER IRREGULAR SHAPES DUE TO THE UNIQUE SMOKE CHARACTERISTICS EXPERIENCED IN A CORRIDOR. THE SPACES LISTED ABOVE HAVE BEEN CALCULATED AS MAXIMUM DISTANCES PER NFPA 72 CHAPTER 17. THE NFPA 72 APPENDIX RECOMMENDS ±5% ACCURACY DEVIATION FOR THESE MEASUREMENTS.

CORRIDOR SMOKE DOOR DETECTOR MOUNTING

THIS DIAGRAM IS FOR INFORMATION PURPOSES, NOT DRAWN TO SCALE

CONDITIONS AFFECTING SMOKE DETECTOR PLACEMENT:

1. **CEILING HEIGHT/ OBSTRUCTIONS**
2. **CEILING SHAPE AND SURFACE**
3. **AMBIENT CONDITIONS**
4. **VENTILATION**



SMOKE DETECTOR MOUNTING GUIDELINES

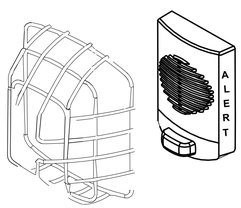
NOT TO SCALE, REFERENCE NFPA 72

DETECTOR PLACEMENT NOTES:

1. **SMOKE DETECTORS ARE UL LISTED FOR ENVIRONMENTS BETWEEN 32° TO 100° F AND HUMIDITY LESS THAN 93%.**
2. **ALL MEASUREMENTS SHOWN ARE TO THE CLOSEST EDGE OF THE DETECTOR.**
3. **SMOKE DETECTORS SHOULD NOT BE LOCATED IN DIRECT AIR FLOW OR CLOSER THAN 3 FT (36 IN) FROM AN AIR SUPPLY DIFFUSER.**
4. **DO NO MOUNT DETECTORS WITHIN 4" OF ANY CORNER DUE TO THE DEAD AIR SPACE.**
5. **AVOID LOCATING SMOKE DETECTORS IN CLOSE PROXIMITY TO DOMESTIC SMOKE SOURCES SUCH AS KITCHENS, AND AREAS OF RELATIVELY HIGH HUMIDITY WHERE CONDENSATION MAY OCCUR.**
6. **AVOID LOCATING HEAT DETECTORS IN CLOSE PROXIMITY TO DOMESTIC HEAT SOURCES SUCH AS KITCHENS, HEATERS, BURNERS, AND OTHER AREAS OF SUDDEN. TEMPERATURE CHANGES.**
7. **DO NOT INSTALL SMOKE DETECTORS UNTIL ALL CONSTRUCTION IS FINAL AND COMPLETE. DETECTORS INSTALLED PRIOR TO FINAL CLEANUP BY ALL TRADES SHALL BE CLEANED OR REPLACED IN ACCORDANCE WITH NFPA 72.**
8. **INSTALL ALL SMOKE DETECTORS ON THE CEILING, UNLESS OTHERWISE NOTED. DO NOT INSTALL ON THE BOTTOM OF OPEN BAR JOISTS.**
9. **DO NOT MOUNT DETECTORS DIRECTLY ADJACENT TO FLUORESCENT LIGHTS. A MINIMUM SEPARATION DISTANCE OF 1 FT IS RECOMMENDED TO AVOID INTERFERENCE.**
10. **MOUNT SMOKE DETECTORS A MINIMUM OF 3 FT OUTSIDE BATHROOMS WHICH HAVE SHOWERS.**
11. **FOR BEAMS WITH DEPTHS EXCEEDING 1' OR CEILING OVER 12' IN HEIGHT, DETECTORS MUST BE INSTALLED IN EVERY BEAM POCKET.**
12. **FOR ROOMS LESS THAN 900 FT2 WITH DEEP BEAMS, ONLY ONE SMOKE DETECTOR REQUIRED AND SMOOTH CEILING SPACING SHALL APPLY. THE SMOKE DETECTOR SHALL BE MOUNTED ON THE CEILING. [REF NFPA 72 5.7.3.2.4.2 (5)].**



MANUAL PULL NOTE:
PROVIDE A MANUAL PULL STATION PROTECTIVE COVER WITH AN INTERNAL SOUNDER, WHERE DESIGNATED ON THE FLOORPLANS



NOTIFICATION APPLIANCE NOTE:
PROVIDE A MANUAL PULL STATION PROTECTIVE COVER, WHERE DESIGNATED ON THE FLOORPLANS.

FIRE ALARM FIELD EQUIPMENT DAMAGE PROTECTION

NOT TO SCALE--FOR INSTALLER'S REFERENCE

REMINGTON & VERNICK **ENGINEERS**
2059 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS: WWW.RVE.COM
Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

DATE: 07/16/2026
BRIAN B. GREGG
NJ PROFESSIONAL ENGINEER LIC. No. 46577

DATE: 07/16/2026
KAYANE SMITH
NJ PROFESSIONAL ENGINEER LIC. No. 56794

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

No.	REVISION	DATE	BY	CHK

ELECTRICAL DETAILS

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY
CITY OF MARGATE

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
D.M.	K.M.	K.M.	
DATE: 12/13/2024		SHEET No.: E-6.5	
JOB No.: 0116U200			

Autodesk Docs://Margate Public Works Building/0116U200 - MEP - 2025.rvt

PANEL: MDP

VOLTAGE: 208Y/120V, 3ø, 4W+G | X | MCB 800A/3P | POLES: 30 | AIC RATING: 42,000
MAIN BUS: 800A | MLO | MTG: SURFACE | LOCATION: 2ND FLR. ELECT. RM.

CKT #	CIRCUIT TRIP	BREAKER POLE	BRANCH CIRCUIT	DESCRIPTION	kVA PER PHASE A	B	C	REMARKS	REMARKS	kVA PER PHASE A	B	C	DESCRIPTION	BRANCH CIRCUIT	CIRCUIT BREAKER POLE	TRIP	CKT #
1					41.08					2.11							2
3	400	3	21C	PANEL HP1		37.85		MAIN ELECTRIC RM.	MAIN ELECTRIC RM.		2.22		PANEL LP	5C	3	60	4
5							35.56					1.34					6
7					13.29					7.49							8
9	250	3	16C	PANEL P1		13.83		MAIN ELECTRIC RM.			7.49		ELEVATOR 1 - LOBBY	10C	3	100	10
11							9.79					7.49	20HP			SHUNT	12
13					7.31					9.41							14
15	200	3	14C	PANEL P2		6.82		MAIN ELECTRIC RM.			9.41		ELEVATOR - STORAGE	11C	3	110	16
17							5.12					9.41	25HP			SHUNT	18
19	20	1	2A	FIRE ALARM PANEL	0.85			MAIN ELECTRIC RM.		2.25							20
21	20	1	2A	SECURITY CONTROL PNL		0.85		MAIN ELECTRIC RM.	IN GENRATOR		2.25		GEN. AUX. PANEL	10C	3	100	22
23	20	1	3A	ELEVATOR CAB CONTROL			1.80	LOBBY ELEV.	ENCLOSURE			2.25					24
25	20	1	3A	ELEVATOR CAB CONTROL	1.80			STOR. ELEV.									26
27	60	2	5B	PANEL UPS		3.24		MAIN ELECTRIC RM.					SPACE				28
29							3.24										30
					64.33	62.59	55.51			21.26	21.37	20.49					

682 TOTAL CONNECTED LOAD (AMPS) — TOTAL CONNECTED LOAD (kVA) 245.55

NOTES:

PANEL: P1

VOLTAGE: 208Y/120V, 3ø, 4W+G | X | MCB 200A/3P | POLES:60 | AIC RATING: 22,000
MAIN BUS: 225A | MLO | MTG: SURFACE | LOCATION: RM 208 ELEC/UTILITY

CKT #	CIRCUIT TRIP	BREAKER POLE	BRANCH CIRCUIT	DESCRIPTION	kVA PER PHASE A	B	C	REMARKS	REMARKS	kVA PER PHASE A	B	C	DESCRIPTION	BRANCH CIRCUIT	CIRCUIT BREAKER POLE	TRIP	CKT #
1	20	1	2A	GENERAL RECEPTACLES	0.72			RM 100	ELEV. E-2	0.70			ELEV 2 SUMP PUMP	2A	1	20	2
3	20	1	2A	GENERAL RECEPTACLES		0.72		RM 100	RM 101		0.18		GENERAL RECEPTACLES	2A	1	20	4
5	20	1	2A	GENERAL RECEPTACLES			0.36	RM 104	EXTERIOR			0.36	GENERAL RECEPTACLES	2A	1	20	6
7	20	1	2A	GENERAL RECEPTACLES	0.72			RM 105	EXTERIOR	0.36			GENERAL RECEPTACLES	2A	1	20	8
9	20	1	2A	GENERAL RECEPTACLES		0.72		RM 105	RM 105		0.72		GENERAL RECEPTACLES	2A	1	20	10
11	20	1	2A	GENERAL RECEPTACLES			0.72	RM 105	RM 105			0.72	GENERAL RECEPTACLES	2A	1	20	12
13	20	1	2A	GENERAL RECEPTACLES	0.72			RM 103, 105	RM 105	0.36			CORD REEL RECEPTACLE	2A	1	20	14
15	20	1	2A	CORD REEL RECEPTACLE		0.36		RM 105	RM 105		0.36		CORD REEL RECEPTACLE	2A	1	20	16
17	20	1	2A	CORD REEL & GEN. REC.			0.54	RM 105,106	RM 106			0.36	CORD REEL RECEPTACLE	2A	1	20	18
19	20	1	2A	CORD REEL RECEPTACLE	0.36			RM 106	RM 106	0.72			GENERAL RECEPTACLES	2A	1	20	20
21	20	1	2A	GENERAL RECEPTACLES		0.72		RM 106	RM 106		0.72		GENERAL RECEPTACLES	2A	1	20	22
23	20	1	2A	GENERAL RECEPTACLES			0.72	RM 106	RM 106			0.72	GENERAL RECEPTACLES	2A	1	20	24
25	20	1	2A	GENERAL RECEPTACLES	0.72			RM 106	RM 106	0.72			GENERAL RECEPTACLES	2A	1	20	26
27	20	1	2A	GENERAL RECEPTACLES		0.72		RM 106	RM 106		0.72		GENERAL RECEPTACLES	2A	1	20	28
29	20	1	2A	GENERAL RECEPTACLES			0.72	RM 106	ELEV. E-1			0.70	ELEV 1 SUMP PUMP	2A	1	20	30
31	50	2	5A	AIR COMPRESSOR	3.33			EXISTING EQUIPMENT	GARAGE AREA	0.57			OVERHEAD DOOR	2B	2	20	32
33				7.5 HP		3.33					0.57		1/2 HP				34
35	20	2	2B	OVERHEAD DOOR			0.57	GARAGE AREA	GARAGE AREA			0.57	OVERHEAD DOOR	2B	2	20	36
37				1/2 HP	0.57					0.57			1/2 HP				38
39	20	2	2B	OVERHEAD DOOR		0.57		GARAGE AREA	GARAGE AREA		0.57		OVERHEAD DOOR	2B	2	20	40
41				1/2 HP			0.57					0.57	1/2 HP				42
43	20	2	2B	OVERHEAD DOOR	0.57			GARAGE AREA	GARAGE AREA	0.57			OVERHEAD DOOR	2B	2	20	44
45				1/2 HP		0.57					0.57		1/2 HP				46
47	20	2	2B	OVERHEAD DOOR			0.57	GARAGE AREA	GARAGE AREA		0.57		OVERHEAD DOOR	2B	2	20	48
49				1/2 HP	0.57					0.57			1/2 HP				50
51	20	2	2B	OVERHEAD DOOR		0.57		GARAGE AREA	GARAGE AREA		0.57		OVERHEAD DOOR	2B	2	20	52
53				1/2 HP			0.57					0.57	1/2 HP				54
55	20	2	2B	OVERHEAD DOOR	0.57			GARAGE AREA					SPARE		1	20	56
57				1/2 HP		0.57							SPARE		1	20	58
59	20	1	2A	IRRIGATION SYSTEM			0.50	GARAGE AREA					SPARE		1	20	60
					8.85	8.85	5.84			5.14	4.98	5.14					

108 TOTAL CONNECTED LOAD (AMPS) — TOTAL CONNECTED LOAD (kVA) 38.80

NOTES:

PANEL: P2

VOLTAGE: 208Y/120V, 3ø, 4W+G | X | MCB 200A | POLES:42 | AIC RATING:
MAIN BUS: 225A | MLO | MTG: SURFACE | LOCATION: RM 208 ELEC/UTILITY

CKT #	CIRCUIT TRIP	BREAKER POLE	BRANCH CIRCUIT	DESCRIPTION	kVA PER PHASE A	B	C	REMARKS	REMARKS	kVA PER PHASE A	B	C	DESCRIPTION	BRANCH CIRCUIT	CIRCUIT BREAKER POLE	TRIP	CKT #
1	20	1	2A	GENERAL RECEPTACLES	0.72			RM 200	RM 205	0.80			REFRIGERATOR	2A	1	20	2
3	20	1	2A	GENERAL RECEPTACLES		0.90		RM 202, 202B	RM 205		1.20		DISH WASHER	2A	1	20	4
5	20	1	2A	GENERAL RECEPTACLES			0.18	RM 200A	RM 205			0.86	SINK DISPOSAL	2A	1	20	6
7	20	1	2A	GENERAL RECEPTACLES	0.18			RM 200B	RM 205	0.53			RANGE HOOD	2A	1	20	8
9	20	1	2A	GENERAL RECEPTACLES		0.54		RM 203	RM 205		1.08		GENERAL RECEPTACLES	2A	1	20	10
11	20	1	2A	GENERAL RECEPTACLES			0.72	RM 201, 204	RM 205			0.36	GENERAL RECEPTACLES	2A	1	20	12
13	20	1	2A	GENERAL RECEPTACLES	0.36			RM 204	RM 205	0.54			GENERAL RECEPTACLES	2A	1	20	14
15	20	1	2A	GENERAL RECEPTACLES		0.18		RM 202A	RM 205		0.18		GAS RANGE RECEPTACLE	2A	1	20	16
17	20	1	2A	EXHAUST FANS			0.20	EF-8, 9, 10, 11, 14	RM 201, 208			0.72	GENERAL RECEPTACLES	2A	1	20	18
19	20	1	2A	GENERAL RECEPTACLES	0.36			RM 206	RM 206A	0.54			GENERAL RECEPTACLES	2A	1	20	20
21	20	1	2A	GENERAL RECEPTACLES		0.36		RM 207	RM 207A		0.18		GENERAL RECEPTACLES	2A	1	20	22
23	20	1	2A	GENERAL RECEPTACLES			0.18	RM 206B	RM 210			0.90	GENERAL RECEPTACLES	2A	1	20	24
25	30	2	3A	CLOTHES	2.20			LAUNDRY CLOSET	RM 210	1.08			GENERAL RECEPTACLES	2A	1	20	26
27				DRYER		2.20			RM 210		0.72		GENERAL RECEPTACLES	2A	1	20	28
29	20	1	2A	WASHING MACHINE			1.20	LAUNDRY CLOSET	RM 210			0.72	GENERAL RECEPTACLES	2A	1	20	30
31	20	1	2A	ROOF TOP RECEPTACLES	0.36				RM 209	0.20			HWH CIRC. PUMP	2A	1	20	32
33	20	1	2A	ELEVATOR PIT-1 RECPT		0.36		ELEVATOR SHAFT	RH 200a, 200b, 202b		0.90		EBBH 13		2	20	34
35	20	1	2A	ELEVATOR PIT-2 RECPT			0.36	ELEVATOR SHAFT				0.90	600 WATT EACH				36
37	20	1	2A	EXHAUST FAN EF-5	0.53			TOILET ROOM 202A					SPARE		1	20	38
39	20	1	2A	EXHAUST FAN EF-13		0.13		MECHANICAL RM. 209					SPARE		1	20	40
41	20	1	2A	WATER HEATER			0.10	MECHANICAL RM. 209					SPARE		1	20	42
					4.71	4.67	2.94			3.69	4.26	4.46					

69 TOTAL CONNECTED LOAD (AMPS) — TOTAL CONNECTED LOAD (kVA) 24.73

NOTES:

PANEL: HP1

VOLTAGE: 208Y/120V, 3ø, 4W+G | X | MCB 400A/3P | POLES:42 | AIC RATING: 36,000
MAIN BUS: 400A | MLO | MTG: SURFACE | LOCATION: 2ND FLR. ELECT. RM.

CKT #	CIRCUIT TRIP	BREAKER POLE	BRANCH CIRCUIT	DESCRIPTION	kVA PER PHASE A	B	C	REMARKS	REMARKS	kVA PER PHASE A	B	C	DESCRIPTION	BRANCH CIRCUIT	CIRCUIT BREAKER POLE	TRIP	CKT #
1					9.75					4.82							2
3	110	3	11C	RTU-1		9.75		ROOFTOP	ROOFTOP		4.82		RTU-2	5C	3	50	4
5							9.75					4.82					6
7					3.00					2.34							8
9	35	3	4C	NON-POWERED		3.00		ELECTRIC HEAT	ELECTRIC HEAT		2.34		NON-POWERED	3C	3	25	10
11				VAV-1			3.00					2.34	VAV-2				12
13					4.68					2.17							14
15	50	3	5C	NON-POWERED		4.68		ELECTRIC HEAT	ELECTRIC HEAT		2.17		NON-POERED	3C	3	25	16
17				VAV-5			4.68					2.17	VAV-8				18
19	35	2	4B	NON-POWERED	2.75			ELECTRIC HEAT	ELECTRIC HEAT	2.75			NON-POWERED	4B	2	35	20
21				VAV-3		2.75					2.75		VAV-4				22
23	20	2	2B	NON-POWERED			1.50	ELECTRIC HEAT	ELECTRIC HEAT			2.50	NON-POWERED	4B	2	35	24
25				VAV-6	1.50					2.50			VAV-7				26
27	15	1	2A	UNIT HEATER #1		0.77		GUH-1	GUH-2		0.77		UNIT HEATER #2	2A	1	15	28
29	15	1	2A	UNIT HEATER #3			0.77	GUH-3	GUH-4			0.77	UNIT HEATER #4	2A	1	15	30
31	15	1	2A	UNIT HEATER #5	0.77			GUH-5		0.79			EXHAUST FAN #1	2B	2	15	32
33	15	1	2A	CO/NOX PANEL		0.50		MAIN ELECTRIC RM			0.79		3/4 HP				34
35	15	1	2A	ATC PANEL			0.50	MAIN ELECTRIC RM				0.79	EXHAUST FAN #2	2B	2	15	36
37	15	2	2B	EXHAUST FAN #4	0.79					0.79			3/4 HP				38
39				3/4 HP		0.79					0.79		EXHAUST FAN #3	2B	2	15	40
41	20	1		SPARE								0.79	3/4 HP				42
					23.24	22.24	20.20			16.16	14.43	14.18					

307 TOTAL CONNECTED LOAD (AMPS) — TOTAL CONNECTED LOAD (kVA) 110.45

NOTES:

PANEL: UPS

VOLTAGE: 120/240V, 1ø, 3W+G | X | MCB 60A/2P | POLES: 30 | AIC RATING: 10,000
MAIN BUS: 60A | MLO | MTG: | LOCATION: ROOM 200C TECH.

CKT #	CIRCUIT TRIP	BREAKER POLE	BRANCH CIRCUIT	DESCRIPTION	kVA PER PHASE A	B	REMARKS	REMARKS	kVA PER PHASE A	B	DESCRIPTION	BRANCH CIRCUIT	CIRCUIT BREAKER POLE	TRIP	CKT #
1	20	1	2A	RECEPTACLES	0.36		RM 100	RM 204	0.72		RECEPTACLES	2A	1	20	2
3	20	1	2A	RECEPTACLES		0.36	RM 100	RM 204		0.72	RECEPTACLES	2A	1	20	4
5	20	1	2A	RECEPTACLES	0.36		RM 202	RM 204	0.72		RECEPTACLES	2A	1	20	6
7	20	1	2A	RECEPTACLES		0.36	RM 202	RM 204		0.72	RECEPTACLES	2A	1	20	8
9	20	1	2A	RECEPTACLES	0.36		RM 203	RM 204	0.72		RECEPTACLES	2A	1	20	10
11	20	1	2A	RECEPTACLES		0.36	RM 203	RM 204		0.72	RECEPTACLES	2A	1	20	12
13	20	1	2A	RECEPTACLES	0.36		2ND FLOOR RECEPT.	PLUG STRIP	1.50		SERVER RACK	2A	1	20	14
15	20	1	2A	RECEPTACLE-SMARTBOARD		0.18	RM 204	IT CLOSET		0.72	RECEPTACLES	2A	1	20	16
17	20	1	2A	RECEPTACLES	0.72		IT CLOSET	IT CLOSET	0.72		RECEPTACLES	2A	1	20	18
19	20	1	2A	RECEPTACLES		0.72	IT CLOSET								20
21															22
23															24
25															26
27															28
29															30
					2.16	1.98			4.38	2.88					

48 TOTAL CONNECTED LOAD (AMPS) — TOTAL CONNECTED LOAD (kVA) 11.40

NOTES: 1

PANEL: LP

VOLTAGE: 208Y/120V, 3ø, 4W+G | X | MCB 125A/3P | POLES:42 | AIC RATING: 22,000
MAIN BUS: 125A | MLO | MTG: SURFACE | LOCATION: ELECTRIC ROOM 2ND FLOOR

CKT #	CIRCUIT TRIP	BREAKER POLE	BRANCH CIRCUIT	DESCRIPTION	kVA PER PHASE A	B	C	REMARKS	REMARKS	kVA PER PHASE A	B	C	DESCRIPTION	BRANCH CIRCUIT	CIRCUIT BREAKER POLE	TRIP	CKT #
1	20	1	2A	1ST FLR RECPT LTG & EF-12	0.33			LIGHTING 1ST FLOOR	LIGHTING 1ST FLOOR	0.80			GARAGE LIGHTING 105	2A	1	20	2
3	20	1	2A	GARAGE LIGHTING 105		0.61		LIGHTING 1ST FLOOR	LIGHTING 1ST FLOOR		0.50		GARAGE LIGHTING 106	2A	1	20	4
5	20	1	2A	ELEVATOR LIGHTING			0.12	ELEVATOR SHAFT LIGHTS	ELEVATOR SHAFT LIGHTS			0.12	ELEVATOR LIGHTING 2	2A	1	20	6
7	20	1	2A	2ND FLR LIGHTING RECPT	0.65			LIGHTING 2ND FLOOR	LIGHTING 2ND FLOOR	0.33			LIGHTING & EF-6 & EF-7	2A	1	20	8
9	20	1	2A	2ND FLR LIGHTING		0.65		LIGHTING 2ND FLOOR	LIGHTING 2ND FLOOR		0.46		ELECTRICAL LIGHTING ROOM	2A	1	20	10
11	20	1	2A	STROAGE LIGHTING ROOM			0.57	LIGHTING 2ND FLOOR			0.53		EXTERIOR PERIMETER LIGHTS	2A	1	20	12
13	20	1	2A	LIGHTS & RECEPT.	0.80			ATTIC AREA	1/3 HP	0.64			EF-16	2B	2	15	14
15	30	2	3B	CU-1/AC-1		2.80		AC UNIT FOR ELEC. RM			0.64						16
17							2.80						SPARE		1	20	18
19				ECUH-1	1.67					1.67			ECUH-2				20
21	20	3	2C	CABINET UNIT HEATER		1.67		STAIR #1	STAIR #2		1.67		CABINET UNIT HEATER	2C	3	20	22
23				5000 WATT			1.67					1.67	5000 WATT				24
25	20	2	2B	ECH-1	0.75			ELECT./UTIL	STORAGE	0.75			ECH-2	2B	2	20	26
27						0.75			CORRIDOR		0.75						28
29	20	2	2B	ECH-3			0.75	TOILET RM. 101	CORRIDOR 104			0.75	ECH-4	2B	2	20	30
31					0.75					0.75							32
33						2.50							SPACE				34
35	30	3	3C	EUH-1			2.50	MECH. RM. 209					SPACE				36
37					2.50								SPACE				38
39	15	2	2B	EF-15		0.64		1/3 HP					SPACE				40
41							0.64						SPACE				42
					7.45	9.62	9.05			4.94	4.02	3.07					

106 TOTAL CONNECTED LOAD (AMPS) — TOTAL CONNECTED LOAD (kVA) 38.15

NOTES:

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~ENGINEERING EXCELLENCE~

DATE: 07/16/2026
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No.	REVISION	DATE	BY	CHK

ELECTRICAL SCHEDULES

CITY OF MARGATE
MARGATE PUBLIC WORKS BUILDING
ATLANTIC COUNTY
NEW JERSEY
CITY OF MARGATE

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
D.M.	K.M.	K.M.	

DATE: 12/13/2024
JOB No.: 0116U200
SHEET No.: E-7.1

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GENERATOR SCHEDULE - (MINIMUM CRITERIA)			
	DESCRIPTION	MODEL NO.	NOTES
MANUFACTURER (BASIS OF DESIGN)	CUMMINS POWER ONAN, 250kW	250DQDAA	
PROJECT USE	USE: MUNICIPAL DEPARTMENT OF PUBLIC WORKS		CRITICAL USE BUILDING CLASSIFICATION
VOLTAGE OUTPUT	480 / 277 VOLT		
PHASE	THREE		
CYCLE	60HZ.		
FUEL TYPE	DIESEL (#2 DIESEL FUEL)		
EPA	STATIONARY EMERGENCY APPLICATION		
PARALLEL	ONE		
DUTY	STANDBY		
SITE ALTITUDE	361 FT.		
SITE TEMP.	25 C		
MAX. ALTR. TEMP RISE	125 C		
VOLTAGE DISORTION LIMIT	10%		
RUNNING kW	169.8		
RUNNING kVA	188.9		
POWER FACTOR (PF)	0.9		
MAX STEP kW	178.0 (IN ONE STEP)		
MAX. STEP kVA	199.1 (IN ONE STEP)		
RUNNING CAPACITY	68.00%		
MAX. VOLTAGE DIP	16%		
MAXIMUM FREQUENCY DIP	9%		
PEAK VOLTAGE DIP	25%		
PEAK FREQUENCY DIP	10%		
SITE RATED STANDBY kW/kVA	250 / 313		
SITE RATED SkW	323.00		
MAX. SkW	904		
NON-LINEAR LOAD	98		
FULL LOAD TEMP. RISE	125 C		
ALTERNATOR kW / kVA	300 / 375	HCI434C	BRUSHLESS, 4 POLE, DRIP PROOF REVOLVING FIELD
ALTERNATOR MOTOR STARTING	1028 (BROAD RANGE)		STRATOR = 2/3 PITCH
EXCITER TYPE	PERMANENT MAGNET GENERATOR		1210
ALTERNATOR ANTI-COND. HEATER	120/240V (100 WATT)		
BCODE	B252		
ENGINE	CUMMINS	QSL9-G7	IN-LINE 6 CYLINDER
ENGINE BORE	114.0 mm (4.49 in)		
ENGINE STROKE	145 mm (5.69 in)		
ENGINE CYLINDERS	CAST IRON IN-LINE 6 CYLINDER		
DISPLACEMENT	543.0 CU. IN. (8.0 LITRE)		
MIN. BREAK HORSEPOWER	464		
VOLTAGE RANGE	LIMR 480		
DIESEL FUEL SYSTEM	DIRECT INJECTION FOR #2 DIESEL FUEL)		WITH FUEL FILTER, AUTOMATIC ELECTRIC SHUT OFF
FUEL FILTER	DUAL ELEMENT WITH WATER SEPARATOR		
AIR CLEANER	NORMAL DUTY		
LUBE OIL FILTERS	SINGLE SPIN ON, COMBINATION FULL FLOW & BYPASS		
COOLING SYSTEM	HIGH AMBIENT RADIATOR		NON REMOTE (ATTACHED TO GENERATOR BASE)
BATTERY CAPACITY	750 AMPS (MIN.) AT 18 C		
BATTERY CHARGER ALTERNATOR	70 AMPS		STARTING VOLTAGE = 24 VOLTS, NEG. GROUND
NUMBER OF LEADS	12		
RECONNECTABLE	YES		
FULL SINGLE PHASE OUTPUT	NO		
INCREASE MOTOR STARTING	NO		
GENERATOR EXHAUST	GENSET MOUNTED MUFFLER		
EXTENDED STACK	NOT APPLICABLE		
ALTITUDE KNEE	4900 FT.		
ALTITUDE SLOPE	7%/1000FT.		
TEMPERATURE KNEE	104 F (40 C)		
TEMP. SLOPE	12%/18 C		
EMISSIONS	EPA TIER 3		
COOLING PACKAGE	HIGH AMBIENT		
MAIN LINE CIRCUIT BREAKER	400 AMP / 3 POLE 480V ADJ. TRIP		
COMMUNICATION	POWER COMMAND NETWORK (NCM)	PCC 3300	COM. MODULE EXISTING SCADA COMPATIBLE
FUEL STORAGE	REMOTE 1500 GALLON WITH SPILL CONTAINMENT AND WEATHER SHIELDS		FULL LOAD / W. ALL NFPA, EPA, DEP REQUIREMENTS EMERG. TANK & RUPTURE BASIS VENTS, LEAK DETECTION LOW & HIGH LEVEL FUEL SWITCHES & ALARMS, TANK HEATER
DAY TANK / TRANSFER PUMPS	PHILLIPS FUEL SYSTEMS 100 GAL. DAY TANK PACKAGE	PDWTSR100	3/4HP SUPPLY & 1 HP RETURN PUMPS, CONTROL PANEL, 10GA. STEEL TANK W/ CORROSION RESIST. PAINT
REMOTE FUEL FILLING STATION	MORRISON BROS. CO. REMOTE FILL BOX (SERIES 715)	715S-TT2-2QSS	STAINLESS STEEL CABINET W/ 10 GALLON CAPACITY WITH STAINLESS STEEL HAND PUMP ASSEMBLY
ENCLOSURE EXTERIOR W/ RAINHOODS	QUIETSITE LEVEL 2 SOUND ATTENUATED ALUMINUM dB 72 AT 7 METERS	F202,F205	WITH PREWIRED 100A / 3 PHASE LOAD CENTER 208-120V (30 POLE) INCLUDE REMOTE FUELING SYSTEM CIRCUITS INCLUDE CIRCUITS FOR LIGHTS & CONV. RECEPT.

LIGHT FIXTURE SCHEDULE

TYPE	STYLE	MOUNTING	MANUFACTURER	CATALOG NO.	LAMPS	VOLTS	REMARKS
A	2X4 RECESSED TROFFER, 3400 LUMENS	RECESSED	COLUMBIA LIGHTING	LCAT24-35MWG-R-EDU	LED 26.5 WATTS	UNIV	
B	2X2 RECESSED TROFFER, 2738 LUMENS	RECESSED	COLUMBIA LIGHTING	LCAT22-35LWG-R-EDU	LED 20.6 WATTS	UNIV	
C	48" ROUND DIRECT INDIRECT CLUSTER RING	PENDANT	OCL - ORIG. CAST LIGHTING INC.	AO2-P2DB-48-MW-SWP-LED2/35K-UNV-XX-DM1	LED 121 WATTS	UNIV	PROVIDE 60" PENDANT ASSEMBLY
D1	4" DOWNLIGHT, WIDE BEAM 1500 LUMENS	RECESSED	PRESCOLITE	LTR-4RD-H-SL15L-DM1/LTR-4RD-T-ML35K8WDSWT	LED 27.8 WATTS	UNIV	
D2	4" DOWNLIGHT, WIDE BEAM 3500 LUMENS	RECESSED	PRESCOLITE	LTR-4RD-H-HL35L-DM1/LTR-4RD-T-ML35K8WDSWT	LED 12 WATTS	UNIV	
D3	4" DOWNLIGHT, NARROW BEAM 600 LUMENS	RECESSED	PRESCOLITE	LTR-4RD-H-SL06L-DM1/LTR-4RD-T-SL35K8NRS	LED 7.8 WATTS	UNIV	
D4	4" DOWNLIGHT, MEDIUM BEAM 600 LUM.- WITH SHOWER TRIM	RECESSED	PRESCOLITE	LTR-4RD-H-SL06L-DM1/LTR-4RD-T-SH-SL35K8WTPML	LED 7.8 WATTS	UNIV	
F	8' ENCLOSED LINEAR, LLF USED TO MAKE LW OUTPUT	RECESSED	COLUMBIA LIGHTING	LXEM8-40LW-RFA-EDU	LED 66.6 WATTS	UNIV	PROVIDE GASKETED LENS
G	8' LENSED STRIP LIGHT	SURFACE	COLUMBIA LIGHTING	LCL8-35KLW-EDU	LED 38 WATTS	UNIV	MOUNT TO BOTTOM OF ROOF STRUCTURE OR CEILING SYSTEM
G1	4' LENSED STRIP LIGHT	SURFACE	COLUMBIA LIGHTING	LCL4-35KLW-EDU	LED 38 WATTS	UNIV	MOUNT TO BOTTOM OF ROOF STRUCTURE OR CEILING SYSTEM
H	3' LENSED STRIP LIGHT	SURFACE WALL	KENALL LIGHTING	MLHA3-36-F-MW-PP-88LF-30K8-DIM1-DV	LED 18 WATTS	UNIV	COORDINATE WITH ELEVATOR INSTALLATION WHERE USED IN ELEVATOR SHAFT
J	4' LENSED STRIP LIGHT STAIRWELLS	SURFACE	KENALL LIGHTING	MLHA5-48-R-MW-PP-45L35K-DCC-DV-LEL	LED 45 WATTS	UNIV	PROVIDE BATTERY BACKUP
K	4' LENSED STRIP LIGHT	SURFACE WALL	KENALL LIGHTING	MLHA3-48-F-MW-PP-88LF-30K8-DIM1-DV	LED 24 WATTS	UNIV	COORDINATE WITH ELEVATOR INSTALLATION WHERE USED IN ELEVATOR SHAFT
L4	3" SLOT LIGHT	RECESSED GRID	LITECONTROL	3L-LG-D-_-_-_-SOF-C1-30K9-DO30-DO1-1C-UNV	LED 10.4 WATTS	UNIV	MIN. 4FT LAMPING WITHIN TOTAL LENGTH OF SLOT (WALL TO WALL) CONTRACTOR TO VERIFY TOTAL LENGTH OF FIXT. TO COMP. MODEL #
L6	3" SLOT LIGHT	RECESSED GRID	LITECONTROL	3L-LG-D-_-_-_-SOF-C1-30K9-DO30-DO1-1C-UNV	LED 15.6 WATTS	UNIV	MIN. 6FT LAMPING WITHIN TOTAL LENGTH OF SLOT (WALL TO WALL) CONTRACTOR TO VERIFY TOTAL LENGTH OF FIXT. TO COMP. MODEL #
L12	3" SLOT LIGHT	RECESSED GRID	LITECONTROL	3L-LG-D-_-_-_-SOF-C1-30K9-DO30-DO1-1C-UNV	LED 31.2 WATTS	UNIV	MIN. 12FT LAMPING WITHIN TOTAL LENGTH OF SLOT (WALL TO WALL) CONTRACTOR TO VERIFY TOTAL LENGTH OF FIXT. TO COMP. MODEL #
M	EXTERIOR DOWNLIGHT SOFFIT	RECESSED SOFFIT	KENALL LIGHTING	DFDL6-R-XFW-18L-35K8-W-CS-G-RID6-DV-D1M1	LED 20 WATTS	UNIV	
M1	EXTERIOR DOWNLIGHT SOFFIT	RECESSED SOFFIT	KENALL LIGHTING	HADL4-FF-XFW-11L-35K8-CS-G-RIG4-DIM1	LED 13 WATTS	120	
N	EXTERIOR DECORATIVE 8"W X 23"H WALL SCONCE	SURFACE WALL	KENALL LIGHTING	FS518R-3E-PIA-CC-18L35K-1-DV	LED 21 WATTS	UNIV	
N1	EXTERIOR DECORATIVE MILLENIUM FINITE	SURFACE WALL	KENALL LIGHTING	FN9-3-7-CC-16L-40K8-DV	LED 16 WATTS	UNIV	LIGHT TO BE ABOVE DOOR HEADER
P	EXTERIOR WALL PACK	SURFACE WALL	KENALL LIGHTING	FN15-3-7-CC-36L-40K8-DV	LED 41 WATTS	UNIV	
X	DECORATIVE LED EXIT SIGN SINGLE FACE - MIRROR BACK	SURFACE WALL	DUAL LITE	LESWSRXNA-M	LED 2.2 WATTS	UNIV	MOUNT 16" ABOVE DOOR HEADER UNLESS NOTED AC-ONLY
X1	LED EXIT SIGN SINGLE FACE	SURFACE WALL	DUAL LITE	SESRW	LED 2.6 WATTS	UNIV	MOUNT 16" ABOVE DOOR HEADER UNLESS NOTED AC-ONLY

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