

NJ STATE POLICE TROOP A PORT NORRIS

2007 HIGHLAND ST, PORT NORRIS COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183



RELEASE / REVISION		
No.	Date	Description
1	12/14/23	RELEASED FOR REVIEW
2	1/16/24	RELEASED FOR BIDDING

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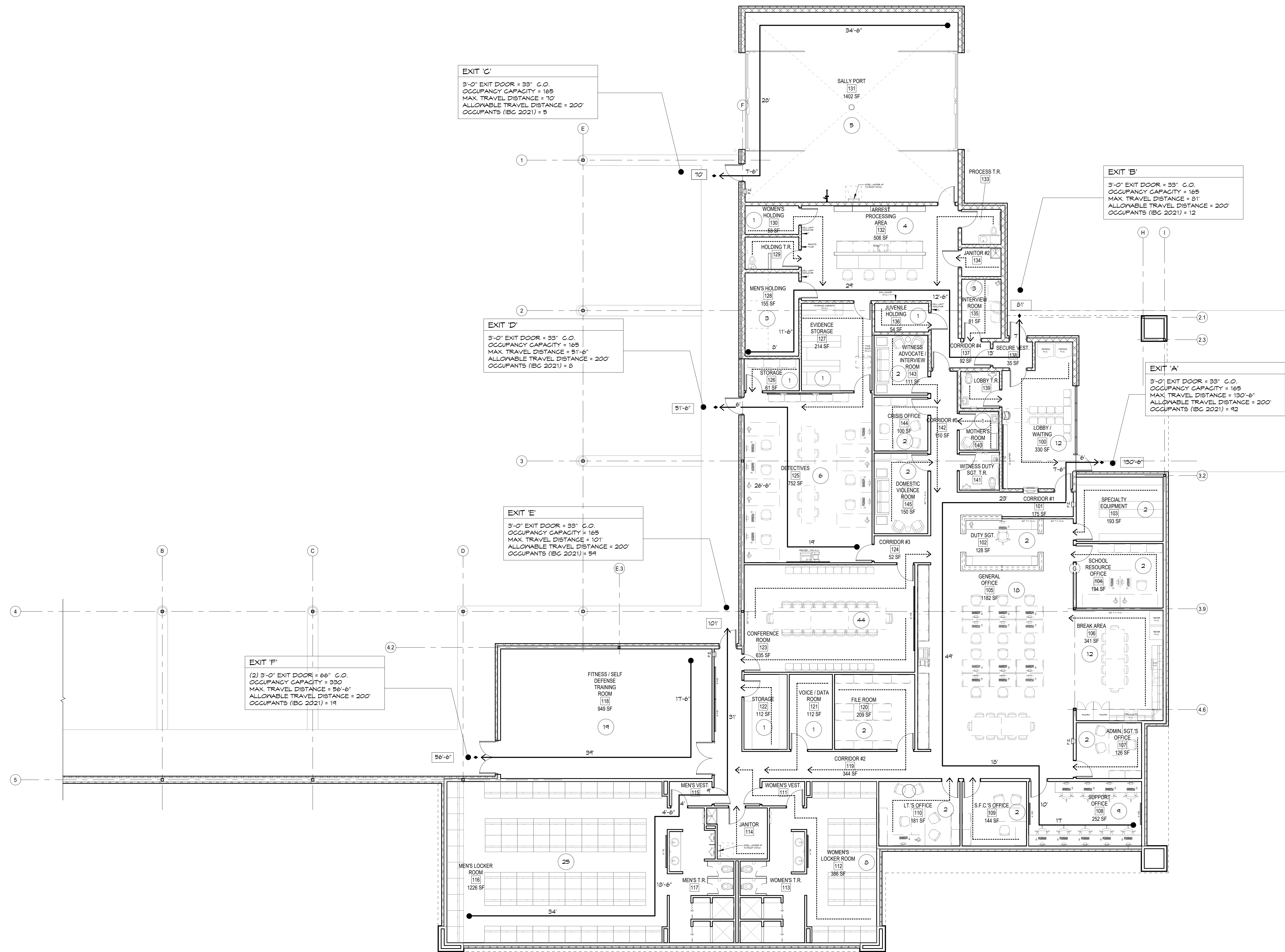
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Project
NJ STATE POLICE
TROOP A
PORT NORRIS
2007 HIGHLAND ST, PORT NORRIS
COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183

Drawing COVER		
Scale 1 1/2" = 1'-0"	Job 21.124	
Drawn GB, AA	Date 12/14/2023	Sheet C1.0



APPLICABLE CODES	
2021 INTERNATIONAL BUILDING CODE - NJ EDITION 2021 NATIONAL STANDARD PLUMBING CODE 2020 NATIONAL ELECTRIC CODE, NFPA TO 2021 ECG WITH REFERENCE TO ASHRAE 90.1-2013 2021 INTERNATIONAL MECHANICAL CODE 2021 INTERNATIONAL FUEL GAS CODE BARRIER FREE SUBCODE, ICC/ANSI A117.1 2017	
BUILDING DATA	
PROJECT LOCATION	
BLOCK(S): 13B LOT(S): 14 MUNICIPALITY: COMMERCIAL TOWNSHIP	
USE GROUP(S)	
A-1 H-1 R-1 S-1 A-2 H-2 R-2 S-2 A-3 H-3 R-3 U A-4 H-4 R-4 A-5 I-1 E I-2 MIXED USE (SEPARATED) F-1 I-3 MIXED USE (NON-SEPARATED) F-2 I-4 N	
CONSTRUCTION CLASSIFICATION	
1A (PROTECTED) 3A (PROTECTED) 1B (PROTECTED) 3B (UNPROTECTED) 2A (PROTECTED) 4 (HEAVY TIMBER) 2B (UNPROTECTED) 5A (PROTECTED) 5B (UNPROTECTED)	
GENERAL BUILDING LIMITATIONS	
ALLOWABLE AREA/TABLE 503: 9,000 SF STREET FRONTAGE INCREASE: 8,750 SF SPRINKLER SYSTEM INCREASE: N/A SF MULTISTORY REDUCTION: N/A SF TOTAL ALLOWABLE AREA: 15,750 SF TOTAL BUILDING AREA: 15,307 SF ALLOWABLE STORIES: 3 SPRINKLER SYSTEM INCREASE: N/A TOTAL ALLOWABLE STORIES: 3 ACTUAL STORIES: 1 ALLOWABLE BUILDING HEIGHT: 35 FT ACTUAL BUILDING HEIGHT: 47-20.5 FT	
UNLIMITED AREA BUILDINGS	
FIRE PROTECTION SYSTEM	
LIMITED AREA SPRINKLER SYSTEM COMPLETE FIRE SUPPRESSION SYSTEM	
LIFE SAFETY LEGEND	
SCHEMATIC PATH OF EGRESS	
LONGEST TRAVEL DISTANCE	
IBC OCCUPANT LOAD FOR EGRESS CALCULATIONS	
1 HOUR RATED PARTITION	
2 HOUR RATED PARTITION	
PROJECT NARRATIVE	
THE NJ STATE POLICE TROOP A BARRACKS IS A TEMPORARY PROCESSING FACILITY WITH HOLDING AREAS FOR A MAXIMUM OF 5 OCCUPANTS AND NO PROVISIONS FOR OVERNIGHT ACCOMMODATION. IN ADDITION TO PROCESSING AREAS, THE BUILDING CONTAINS PRIVATE OFFICE SPACE, GENERAL OFFICE SPACE, A CONFERENCE ROOM, DETECTIVE AREA, FITNESS ROOM, LOCKER ROOMS, TOILET ROOMS, STORAGE AREAS AND A SALLY PORT.	

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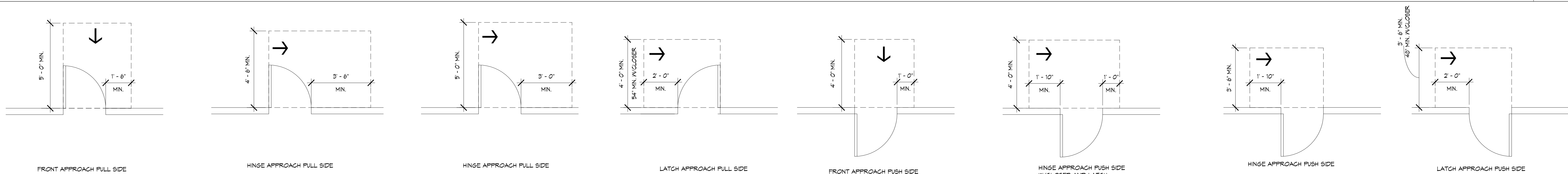


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EGRESS PLAN

SCALE
1/8" = 1'-0"

1



TYPICAL DOOR CLEARANCES

SCALE
3/8" = 1'-0"

2

Project

NJ STATE POLICE
TROOP A
PORT NORRIS

2007 HIGHLAND ST, PORT NORRIS
COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183

Drawing

BUILDING DATA &
EGRESS PLANS

Scale

As indicated

Job

21.124

Sheet

EG1.0

Drawn

AA

Date

12/14/2023

NJ STATE POLICE TROOP A
PORT NORRIS BARRACKS
PLATE 7 , BLOCK 183 , LOT 14
COMMERCIAL TOWNSHIP, CUMBERLAND COUNTY, NEW JERSEY
FINAL SITE PLAN

PROPERTY OWNERS LIST
COMMERCIAL TOWNSHIP
(09/26/2023)

BLOCK	LOT	NAME/ADDRESS
177	12.01	DRUMMOND, CHRISTOPHER 8888 HIGHLAND ST PORT NORRIS, NJ 08349
181	8.01	BAGLIO, SR JOHN A. & REBA F. P.O. BOX 144 MAURICETOWN, NJ 08329
181	10	MYERS, WILLIAM JOSEPH ET ALS 704 MAIN ST DIVIDING CREEK NJ 08315
181	11	DAY, CRAIG & KIMBERLY 8790 HIGHLAND ST PORT NORRIS, NJ 08349
183	11	KLAUDI, JOSEPH E & NADINE 8765 HIGHLAND ST PORT NORRIS NJ 08349
183	12	STILES, RODNEY 8773 HIGHLAND ST PORT NORRIS, NJ 08349
183	13	O'BRIEN, PATRICK 8775 HIGHLAND ST PORT NORRIS NJ 08349
183	14	TOWNSHIP OF COMMERCIAL 1768 MAIN ST PORT NORRIS, NJ 08349
183	14.01	BERRY, JOANN & LESLIE C SR. P.O. BOX 62 MAURICETOWN, NJ 08329
195	1	TOWNSHIP OF COMMERCIAL 1768 MAIN ST PORT NORRIS, NJ 08349
196	3	US SILICA CO P.O. BOX 187 BERKELEY SPRINGS, WV 25411
198	9	US SILICA CO P.O. BOX 187 BERKELEY SPRINGS, WV 25411

UTILITY COMPANIES

ELECTRIC
ATLANTIC CITY ELECTRIC
REAL ESTATE RIGHT OF WAY DEPARTMENT
5100 HARDING HIGHWAY
MAYS LANDING, NJ 08330

GAS COMPANY
SOUTH JERSEY GAS COMPANY
1 SOUTH JERSEY PLAZA
FOLSOM, NJ 08037

CABLE
COMCAST HEADQUARTERS
ONE COMCAST CENTER
PHILADELPHIA, PA 19103-2838

TELEPHONE
VERIZON
1045 AVENUE OF THE AMERICAS
NEW YORK, NY 10018

PLANNING BOARD
CUMBERLAND COUNTY DEPARTMENT OF
PLANNING & DEVELOPMENT
ATTN: MATTHEW E. PISARSKI, ACP, P.P.
164 WEST BROAD STREET
BRIDGETON, NJ 08302

HIGHWAYS
NJ DEPT OF TRANSPORTATION COMMISSIONER
1035 PARKWAY AVENUE
TRENTON, NJ 08618

MUNICIPAL ROADS
COMMERCIAL TOWNSHIP
ATTN: TWP CLERK
1768 MAIN STREET
PORT NORRIS, NJ 08349

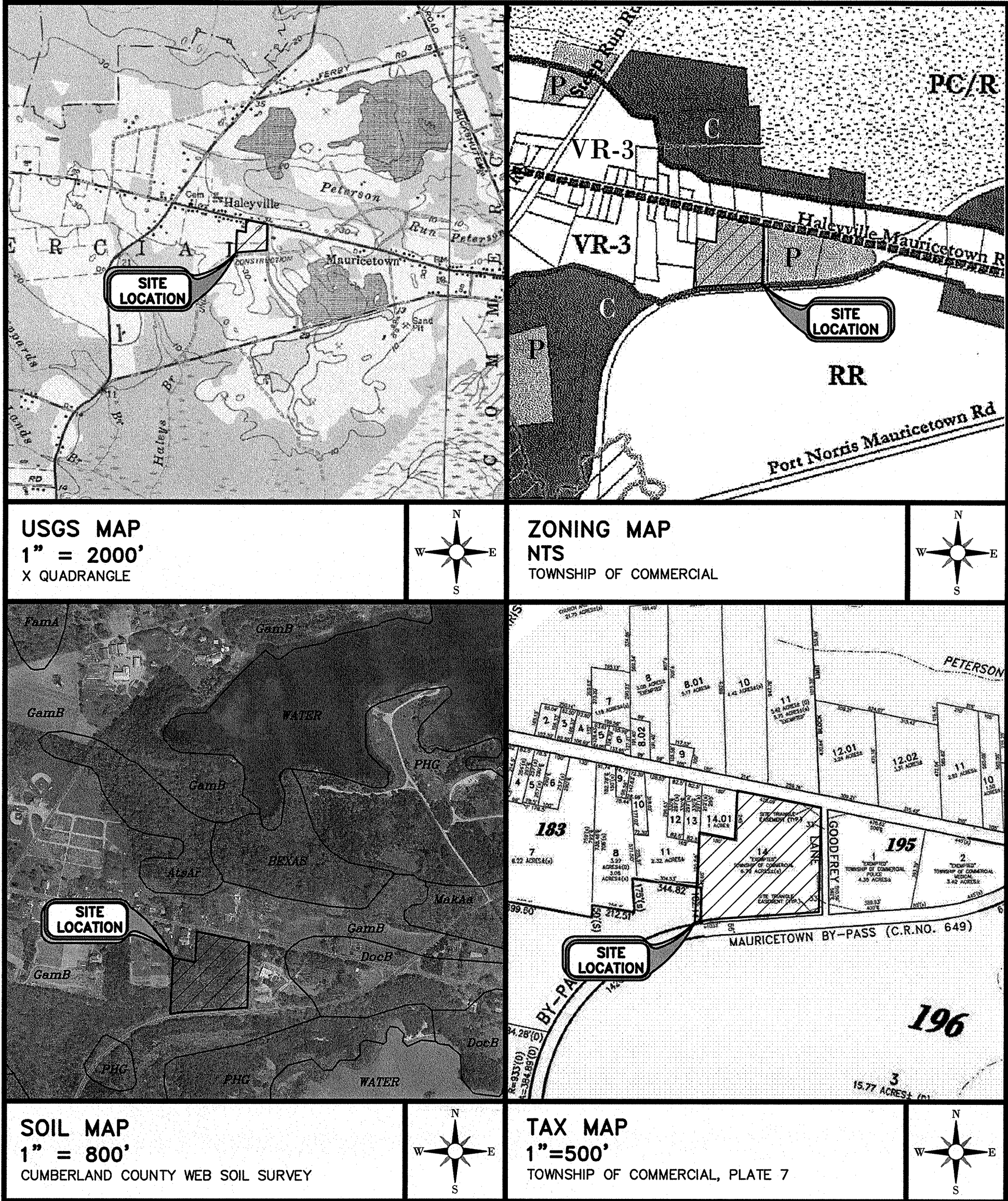
COUNTY ROADS
CUMBERLAND COUNTY PLANNING BOARD
CUMBERLAND COUNTY ADMINISTRATIVE BLDG
ATTN: MATT PISARSKI, PLANNING BOARD DIRECTOR
164 WEST BROAD STREET
BRIDGETON, NJ 08302

SITE DATA

- PROPERTY IN QUESTION KNOWN AS PLATE 7, BLOCK 183, LOT 14 AS SHOWN ON THE OFFICIAL TAX MAP OF COMMERCIAL TOWNSHIP, CUMBERLAND COUNTY, NEW JERSEY.
- PROPERTY IN QUESTION CONTAINS: 7.425± AC
- PROPERTY IN QUESTION IS ZONED: (P) - PUBLIC ZONING DISTRICT
- OWNER/APPLICANT: CUMBERLAND COUNTY IMPROVEMENTS AUTHORITY
745 LEBANON ROAD
MILLVILLE, NJ 08332
- PRESENT LAND USE: VACANT
- PROPOSED LAND USE: STATE POLICE BARRACKS
- EXISTING LOTS : 1 PROPOSED LOTS: 2
- OUTBOUND IS BASED UPON PLAN ENTITLED, "PLAN OF SURVEY NEW JERSEY STATE POLICE FACILITY BLOCK 183, LOT 14" PREPARED BY CONSULTING ENGINEER SERVICES DATED 05/14/22 LAST REVISED 09/28/23.
- VERTICAL DATUM IS NAVD88 BASED ON GPS OBSERVATIONS.
- HORIZONTAL DATUM IS NAD83(2011), BASED ON GPS OBSERVATIONS.
- SAID DESCRIBED PROPERTY IS LOCATED WITHIN AREAS HAVING A ZONE DESIGNATION "X" AREAS DETERMINED TO BE OUTSIDE THE 2% ANNUAL CHANCE FLOOD AND SHADED "X" (0.2% ANNUAL CHANCE FLOOD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN ONE SQUARE MILE) ON FLOOD INSURANCE RATE MAP NO. 34011C0342E, WITH EFFECTIVE DATE OF JUNE 16, 2016 FOR COMMUNITY NO. 340166 IN THE COMMERCIAL TOWNSHIP, CUMBERLAND COUNTY, STATE OF NEW JERSEY WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PREMISES IS SITUATED.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND THE DEPTH OF ALL EXISTING UTILITIES UNDERGROUND PER THE UNDERGROUND FACILITY PROTECTION ACT, BETTER KNOWN AS THE "ONE CALL LAW," OCTOBER 1994. THIS LAW REQUIRES THAT ANYONE DIGGING MUST CALL 1-800-272-1000 OR 811, 72 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR DEMOLITION SO THAT OPERATORS CAN MARKOUT THEIR UNDERGROUND UTILITIES IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS.
- BULK REQUIREMENTS:

DESCRIPTION	REQUIRED USE OFFICE BLDG	EXISTING LOT 14	PROPOSED LOT 14
MINIMUM LOT SIZE	5.0 AC	7.425 AC	5.039 AC
MINIMUM LOT WIDTH	300 FT	245.70 FT	290.74 FT*
MINIMUM LOT DEPTH	500 FT	N/A	610.48 FT
MINIMUM FRONT YARD	50 FT	50 FT	50 FT
MINIMUM REAR YARD	50 FT	50 FT	50 FT
MINIMUM SIDE YARD	50 FT	50 FT	50 FT
HEIGHT	40 FT	0 FT	<40 FT
MAX BLDG COVERAGE	25%	0%	6.0%
MAX LOT COVERAGE	35%	0%	21.4%
* VARIANCE REQUESTED			

- PARKING
61 PARKING SPACES PROVIDED



INDEX OF SHEETS

SHT. NO.	DESCRIPTION	ORIG. DATE	LAST REV.
1.	COVER SHEET	09/28/2023	01/10/2024
2.	EXISTING CONDITIONS & DEMOLITION PLAN	12/14/2023	01/10/2024
3.	SITE PLAN	09/28/2023	01/10/2024
4.	GRADING & DRAINAGE PLAN	09/28/2023	01/10/2024
5.	UTILITY PLAN	09/28/2023	01/10/2024
6.	LANDSCAPING PLAN	09/28/2023	01/10/2024
7.	LIGHTING PLAN	12/14/2023	01/10/2024
8.	CONSTRUCTION DETAILS	09/28/2023	01/10/2024
9.	STORM SEWER DETAILS	12/14/2023	01/10/2024
10.	SOIL EROSION & SEDIMENT CONTROL PLAN	12/14/2023	01/10/2024
11.	SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS	12/14/2023	01/10/2024

"I HEREBY CERTIFY THAT I AM THE OWNER AND APPLICANT OF RECORD OF THE SITE HEREIN DEPICTED AND THAT I CONCUR WITH THE PLAN".

OWNER/APPLICANT NAME DATE

APPLICANT/OWNER:
CUMBERLAND COUNTY
IMPROVEMENT AUTHORITY
745 LEBANON ROAD, MILLVILLE, NJ 08332
856-825-3700

COMMERCIAL TWP PLANNING BOARD CHAIRPERSON DATE

COMMERCIAL TWP PLANNING BOARD SECRETARY DATE

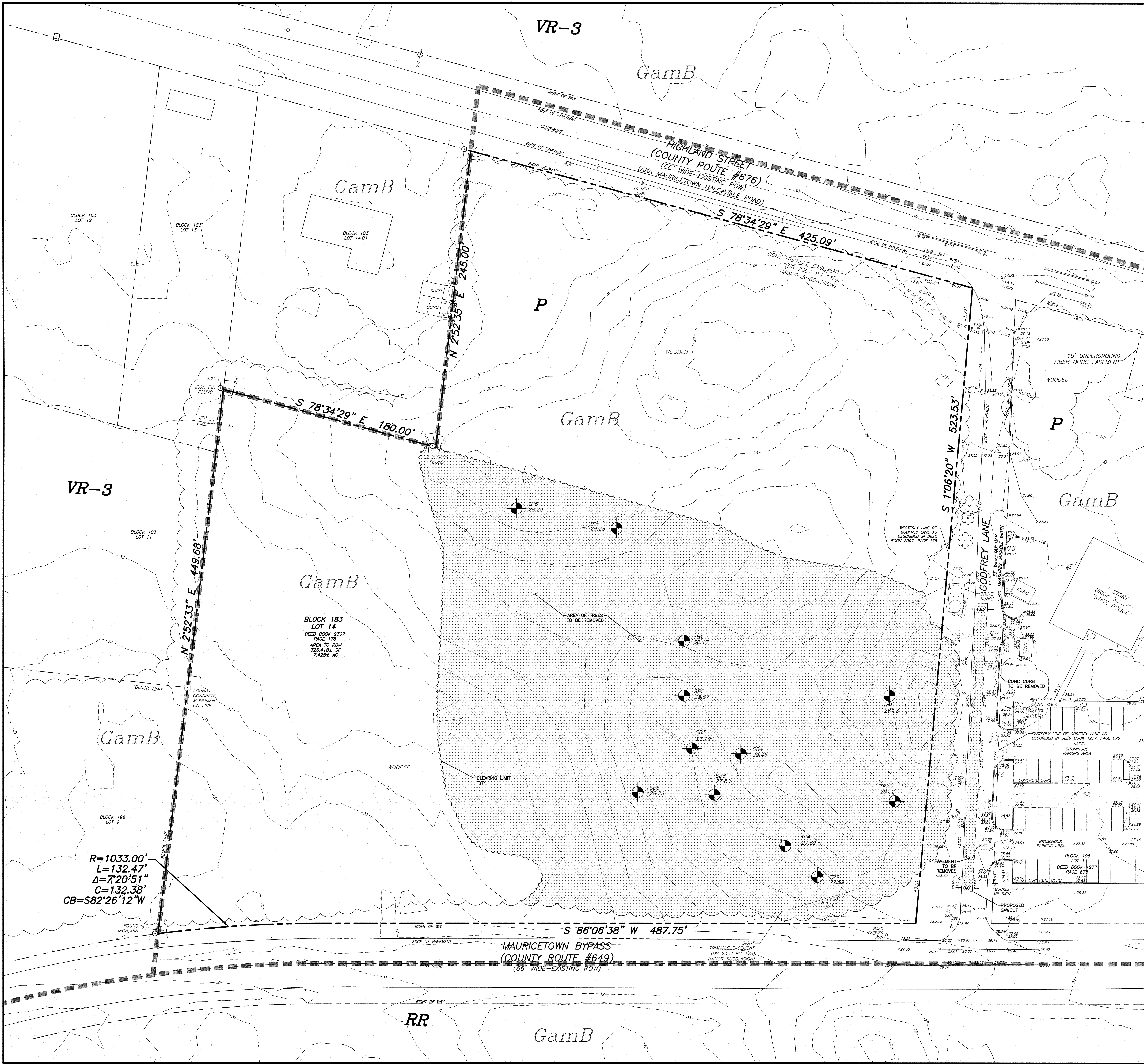
COMMERCIAL TWP ENGINEER DATE

CUMBERLAND COUNTY PLANNING BOARD CHAIRMAN DATE

COVER SHEET
NEW JERSEY STATE POLICE TROOP A - PORT NORRIS BARRACKS
2007 HIGHLAND ST, PORT NORRIS COMMERCIAL TWP. NJ 08349
PLATE 7, BLOCK 183, LOT 14

PREPARED BY
CONSULTING ENGINEER SERVICES
PROFESSOR OF CIVIL ENGINEERING
645 BERLIN-CROSS KEYS ROAD SUITE 300 MILLVILLE, NEW JERSEY 08301
PHONE (856) 228-2200 - FAX (856) 232-2346 - EMAIL design@ces-1.com
NJ CERTIFICATE OF AUTHORIZATION No. 2 24607957700, 21M000154
3856-04-0501
DATE: 09/28/23 SCALE: AS NOTED CES No. 3856-04 FILE No. 3856-04-0501
DRAWN BY: JML

CS



DEMOLITION NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION AND THE DEPTH OF ALL EXISTING UTILITIES UNDERGROUND PER THE UNDERGROUND FACILITY PROTECTION ACT, BETTER KNOWN AS THE "ONE CALL LAW," OCTOBER 1994. THIS LAW REQUIRES THAT ANYONE DIGGING MUST CALL 1-800-272-1000 OR 811, 72 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR DEMOLITION SO THAT OPERATORS CAN MARKOUT THEIR UNDERGROUND UTILITIES IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS.
2. ALL ELECTRICAL FACILITIES SCHEDULED FOR DEMOLITION SHALL BE DISCONNECTED AND REMOVED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY APPLICABLE STATE OR LOCAL REGULATIONS. ALL WORK AT UTILITY POLES SHALL BE COORDINATED WITH PROPER ELECTRIC COMPANY.
3. THE CONTRACTOR SHALL PROTECT ALL STRUCTURES AND OBJECTS THAT ARE TO REMAIN SO AS TO AVOID DAMAGE DUE TO DEMOLITION ACTIVITIES. ANY AND ALL DAMAGE TO ADJACENT FACILITIES CAUSED BY CONTRACTOR OPERATIONS SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST.
4. APPLICABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO DEMOLITION. SUCH MEASURES SHALL BE LEFT IN PLACE UNTIL THE PROJECT IS COMPLETED OR THE AREA IS STABILIZED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE COUNTY SOIL CONSERVATION DISTRICT.
5. NO DISTURBANCES NOR PLACEMENT OF MATERIALS SHALL BE PERMITTED BEYOND THE PROJECT PROPERTY LINES WITHOUT THE WRITTEN CONSENT OF THE PROPERTY OWNER(S) INVOLVED. ANY AND ALL DAMAGE CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS AND/OR STORAGE OF MATERIALS OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.
6. ANY TRENCH REPLACEMENT AND RESTORATION DONE WITHIN THE COUNTY ROAD RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE COUNTY STANDARDS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING PAVING AND CONCRETE, AS WELL AS TOPSOILING, SOODING, FERTILIZING AND SEEDING ALL AREAS DISTURBED BY HIS ACTIVITIES. ROAD PAVEMENT REPLACEMENT AND ALL RESTORATION IN STATE ROADS SHALL MEET THE REQUIREMENTS OF THE STATE ENGINEER.
8. THE USE OF EXPLOSIVES FOR DEMOLITION WILL NOT BE PERMITTED.
9. THE CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
10. THE AREAS OF DEMOLITION SHALL BE PROTECTED TO ENSURE THE SAFE PASSAGE OF PERSONS IN THE RESPECTIVE AREAS.
11. ALL DEBRIS, TRASH, BUILDING REMAINS, RUBBISH, INCLUDING HAZARDOUS WASTE, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS AND/OR FOUND ON THE SITE DURING DEMOLITION OR CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
12. IN LOCATIONS WHERE CONCRETE AND PAVEMENT, TO BE REMOVED, ABUT SURFACES OF LIKE MATERIALS, THE CONCRETE AND PAVEMENT SHALL BE SAW CUT ALONG THE LIMITS OF REMOVAL TO LEAVE A CLEAN, EVEN EDGE. REMAINING WHERE SUCH MATERIALS ARE TO REMAIN IN PLACE. AT ALL LOCATIONS WHERE EXISTING BUILDINGS AND FOUNDATIONS ARE TO BE REMOVED, THE EXPOSED SUBGRADE SHALL BE PROOF ROLLED AND DENSIFIED WITH A 15 TON SELF-PROPELLED VIBRATORY COMPACTOR. THE DENSITY OF 95% OF MODIFIED PROCTOR SHALL BE ACHIEVED PRIOR TO ANY PROPOSED CONSTRUCTION.
13. THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.21 (a) OF THE N.J. UNIFORM CONSTRUCTION CODE AND CFR 1926.32 (f) (OSHA COMPETENT PERSON).
14. THE CONTRACTOR SHALL PAY ALL STREET OPENING FEES AND GIVE THE NOTICES NECESSARY FOR AND INCIDENTAL TO THE DUE AND LAWFUL EXECUTION OF THE PROJECT.
15. THE INSPECTION OF, OR FAILURE TO INSPECT, ANY MATERIALS OR WORKMANSHIP BY STATE, COUNTY, OR CITY OFFICIALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS, SPECIFICATIONS, AND LAWS.
16. IF ENCOUNTERED, DEMOLITION PERMIT AND WELL/SEPTIC SYSTEM CLOSURE PERMITS ARE REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
17. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE AND SHOULD NOT BE RELIED UPON BY THE CONTRACTOR. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATION OF ALL EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE PROCEEDING TO COMMENCE THE WORK OR ORDERING OF MATERIALS. EXISTING UTILITIES SHALL BE ABANDONED OR REMOVED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
18. THE CONTRACTOR SHALL NOT PROCEED WITH ANY EXCAVATION OPERATIONS UNTIL HE HAS DETERMINED THE EXACT LOCATION OF THE EXISTING UTILITY FACILITIES WITHIN THE PROJECT FROM SUBSURFACE SITE INVESTIGATIONS, INCLUDING TEST PITS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THEIR EXAMINATIONS DETERMINE ANY CONFLICTS TO COMPLETING THE WORK.
19. THE CONTRACTOR SHALL PROTECT, SUPPORT, AND SECURE ALL IN-PLACE UTILITY FACILITIES SO AS TO AVOID DAMAGE TO THEM AND ANY INTERRUPTION OF SERVICE. THE CONTRACTOR SHALL NOT TEMPORARILY MOVE EXISTING OR COMPLETED UTILITY FACILITIES WITHOUT THE UTILITY(S) WRITTEN CONSENT, AND THE FACILITIES SHALL BE AS SAFE AND PERMANENT AT COMPLETION AS THEY WERE BEFORE THE CONTRACTOR'S INVOLVEMENT. IN THE EVENT THE CONTRACTOR DAMAGES A UTILITY FACILITY, INCLUDING PROPERTY SERVICE CONNECTIONS, THE CONTRACTOR SHALL NOTIFY THE UTILITY(S) IMMEDIATELY. THE UTILITY(S) MAY COMPLETE THE REPAIRS OR ALLOW THE CONTRACTOR TO COMPLETE THE REPAIRS, WITH THE CONTRACTOR RESPONSIBLE FOR ANY APPLICABLE TIME AND EXPENSE.
20. EXCAVATIONS SHALL BE SHORED, BRACED, AND SHEATHED AS CONDITIONS WARRANT. IF CLOSE TO EXISTING PAVEMENT, SIDEWALKS, CURBS, PIPES, RAILROADS, OR STRUCTURES OF ANY KIND, THE EXCAVATION SHALL BE SECURED BY SHEET PILING OR OTHER METHODS SO THAT SUCH FACILITIES AND STRUCTURES ARE PROTECTED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SHORING, BRACING OR SHEATHING.

SOILS LEGEND

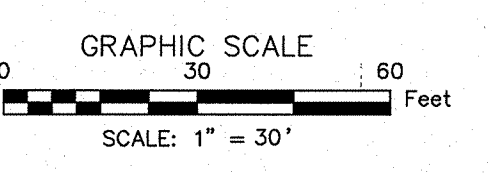
DESIGNATION	NAME	SLOPES	SOIL CLASS
GamB	GALLOWAY LOAMY SAND	0-5%	A/D

ZONING LEGEND

P PUBLIC
RR RURAL RESOURCE
VR-3 VILLAGE RESIDENTIAL

LEGEND

- PROPERTY OUTBOUND
- EXISTING CENTERLINE
- EXISTING LOT LINE
- EXISTING TREELINE
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE
- EXISTING BLOCK NUMBER
- EXISTING LOT NUMBER
- EXISTING 1' INTERVAL CONTOUR LINE
- EXISTING 5' INTERVAL CONTOUR LINE
- EXISTING SOIL LINE
- EXISTING SOIL TYPE
- TEST PIT LOCATION
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE W/LIGHT
- EXISTING UTILITY POLE W/LIGHT & SOLAR PANEL
- EXISTING UTILITY POLE W/SOLAR PANEL
- EXISTING UTILITY GUY POLE
- EXISTING LIGHT
- EXISTING MONITORING WELL
- EXISTING GAS MAIN
- EXISTING GAS VALVE
- EXISTING SIGN
- ZONING LIMIT LINE
- ZONING DESIGNATION
- EXISTING TREE TO BE REMOVED
- TO BE DEMOLISHED OR REMOVED



EXISTING CONDITIONS & DEMOLITION PLAN

NEW JERSEY STATE POLICE TROOP A - PORT NORRIS BARRACKS
2007 HIGHLAND ST, PORT NORRIS COMMERCIAL TWP. NJ 08349
PLATE 7, BLOCK 183, LOT 14

PREPARED BY:
CONSULTING ENGINEER SERVICES
PROFESSOR OF CIVIL ENGINEERING
645 BERLIN-CROSS KEY ROAD, SUITE 200, SICKLEVILLE, NEW JERSEY 08081
PHONE (860) 238-2200 - FAX (860) 232-2346 - EMAIL design@cs-engineers.com
NJ CERTIFICATE OF AUTHORIZATION No. 24G07975700, 21W000134

DATE: 12/12/23 SCALE: 1"=30' GCS No. 39656-04 FILE No. 39656-04 E001 DRAWN BY: JAL



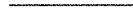























O. ANDREW SIMKINS
PROFESSIONAL ENGINEER, NEW JERSEY LIC. NO. 24GE03022300


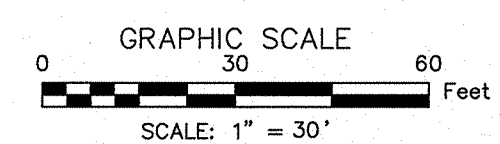
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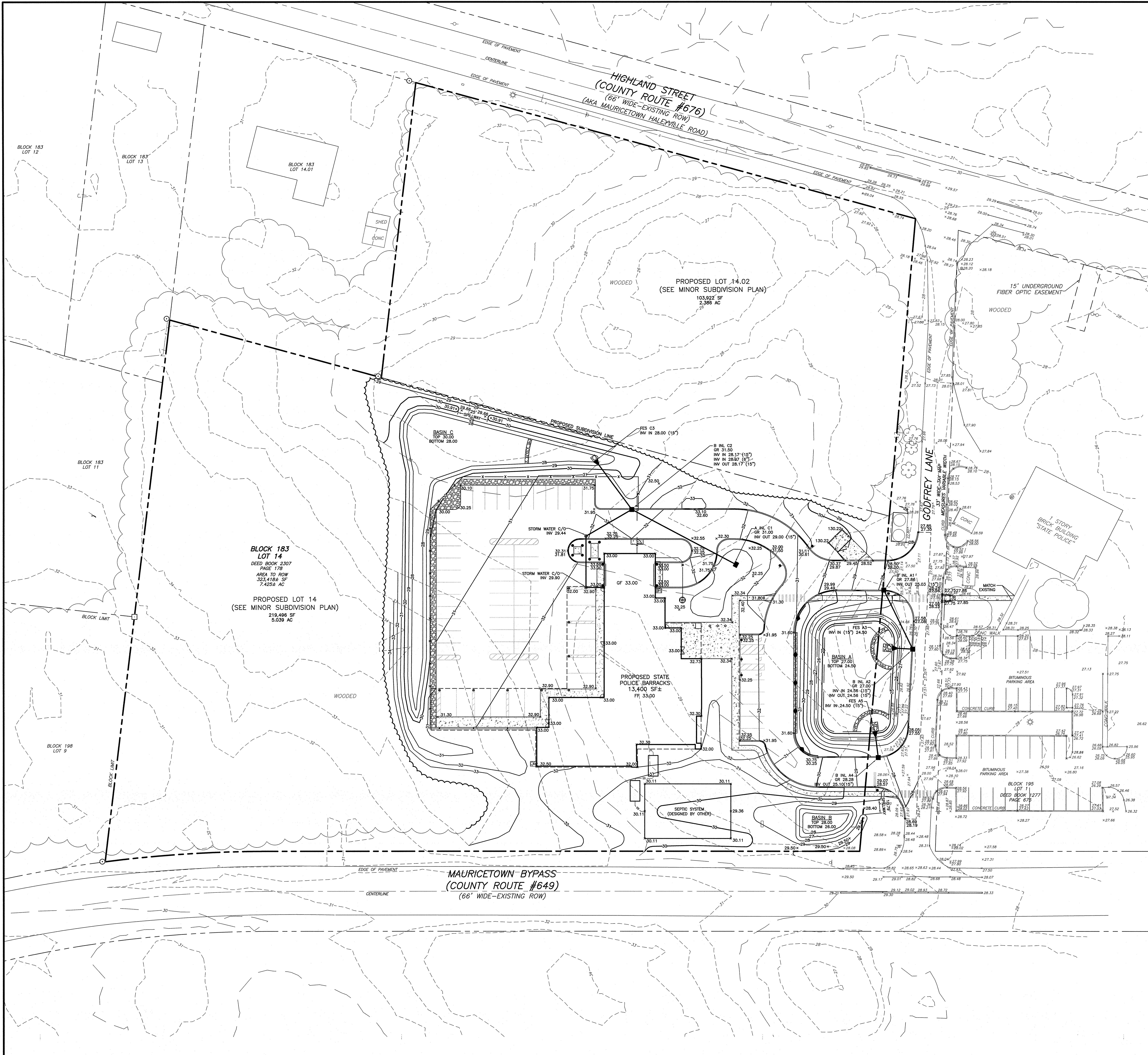


1. ALL DISTURBED AREAS NOT COVERED BY PAVEMENT, SIDEWALK, OR BUILDINGS ARE TO BE COVERED WITH SIX INCHES OF COMPACT TOPSOIL, HYDRO-SEED AND MULCH.
2. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO NJDOT SPECIFICATIONS.
3. SIGHT TRIANGLE EASEMENTS SHALL BE GRANTED TO CUMBERLAND COUNTY FOR THE PURPOSES PROVIDED FOR AND EXPRESSED IN THE LOCAL ORDINANCE.
4. UTILITY EASEMENTS SHALL BE DEDICATED TO THE PROVIDER OF SERVICE.
5. ALL TRAFFIC CONTROL SIGNS ARE TO BE AS PER THE LATEST EDITION OF THE MUTCD DESIGN STANDARDS.
6. DETENTION/RETENTION BASINS AND STORMWATER PIPING OUTSIDE OF DEDICATED ROADWAY RIGHT OF WAY WILL BE THE RESPONSIBILITY OF THE CUMBERLAND COUNTY IMPROVEMENT AUTHORITY.

	PROPERTY OUTBOUND
	EXISTING RIGHT OF WAY
	EXISTING CENTERLINE
	EXISTING LOT LINE
	PROPOSED LOT LINE
	EXISTING TREELINE
	PROPOSED TREELINE
	EXISTING CURB
	PROPOSED CURB
	EXISTING EDGE OF PAVEMENT
	PROPOSED EDGE OF PAVEMENT
	EXISTING FENCE
	PROPOSED FENCE
	EXISTING BLOCK NUMBER
	EXISTING LOT NUMBER
	PROPOSED LOT NUMBER
	EXISTING SIGN
	PROPOSED SIGN
	PROPOSED HC RAMP TYPE I
	EXISTING LIGHT
	PROPOSED UTILITY POLE
	PROPOSED PARKING COUNT
	PROPOSED PARKING BUMPER
	PROPOSED HC PARKING SYMBOL



PROFESSIONAL ENGINEER, NEW JERSEY LIC. NO. 24GE03022300



FILL NOTES

- SITE PREPARATION: ALL STRUCTURAL AREAS SHALL BE STRIPPED OF ALL EXISTING TOPSOIL. ANY UNSTABLE OR DELETERIOUS MATERIALS ENCOUNTERED BELOW THE SURFACE SHALL ALSO BE REMOVED FROM ALL STRUCTURAL AREAS. STRUCTURAL AREAS ARE DEFINED AS THOSE AREAS PROPOSED TO CONTAIN STRUCTURES, EXTENDING TO A MINIMUM OF FIVE (5) FEET BEYOND THE PROPOSED BUILDING LINES (WHERE FEASIBLE) AND THOSE PORTIONS OF THE SITE TO BE COVERED BY CONCRETE OR ASPHALT PAVEMENTS. ANY UNSTABLE MATERIALS ENCOUNTERED BELOW THE SURFACE SHALL BE REMOVED. REMOVAL OF ALL MATERIALS SHALL CONTINUE UNTIL STABLE SOILS ARE ENCOUNTERED. IN NO CASE SHALL THE STRUCTURAL AREAS BE SUPPORTED ON UNSUITABLE MATERIALS.
- PROOF-ROLLING: FOLLOWING REMOVAL OF THE SURFICIAL TOPSOIL, AND ANY UNSTABLE OR DELETERIOUS MATERIALS, ALL STRUCTURAL AREAS SHALL BE PROOF-ROLLED AND COMPACTED USING A STEEL-DRUM, VIBRATORY ROLLER, HAVING A MINIMUM STATIC WEIGHT OF 10-TONS, PRIOR TO THE PLACEMENT OF ANY STRUCTURAL FILL AT THE PROJECT SITE. PROOF-ROLLING AND COMPACTION PROCEDURES ARE NECESSARY TO COMPACT AND VERIFY THE INTEGRITY OF THE UPPER ZONES OF THE SOILS AND ALLOW FOR UNIFORM DISTRIBUTION OF LOADS. ANY LOOSE OR UNSTABLE AREAS ENCOUNTERED DURING PROOF-ROLLING SHALL BE COMPACTED IN PLACE OR REMOVED AND REPLACED WITH STRUCTURAL FILL. IN AREAS OF THE SITE WHERE A CUT OR REMOVAL OF SOIL IS NECESSARY TO ACHIEVE THE REQUIRED SOIL SUBGRADE ELEVATION, PROOF-ROLLING OF THE SURFACE MAY BE WAIVED UNTIL THE PROPOSED SUBGRADE ELEVATION IS ACHIEVED.
- BACKFILL & COMPACTION: IMPORTED STRUCTURAL OR LOAD BEARING FILL, REQUIRED TO RAISE SITE GRADES OR REPLACE DELETERIOUS FILL LAYER MATERIALS SHALL MEET THE FOLLOWING CRITERIA:
 - FREE OF ORGANIC MATTER, ASH, CINDERS, AND DEMOLITION DEBRIS.
 - PARTICLE SIZE DISTRIBUTION THAT IS WELL-GRADED, PLASTICITY INDEX LESS THAN 10, AND LIQUID LIMIT LESS THAN 30.
 - LESS THAN 15% BY WEIGHT ROCK FRAGMENTS LARGER THAN 3", LESS THAN 30% BY WEIGHT LARGER THAN THE 3/4" AND LESS THAN 5% SMALLER THAN THE NO. 200 SIEVE.
 - THE DISTRIBUTION AND GRADATION OF MATERIALS SHALL BE SUCH THAT NO LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL SHALL DIFFER SUBSTANTIALLY IN TEXTURE OR GRADATION FROM THE SURROUNDING MATERIAL. IF IT IS NECESSARY TO USE MATERIALS OF VARYING TEXTURE AND GRADATION, THE MORE IMPERVIOUS MATERIAL SHALL BE PLACED IN THE CENTER AND UPSTREAM PARTS OF THE FILL. IF ZONED FILLS OF SUBSTANTIALLY DIFFERING MATERIALS ARE SPECIFIED, THE ZONES SHALL BE PLACED ACCORDING TO LINES AND GRADES SHOWN ON THE DRAWINGS. THE COMPLETE WORK SHALL CONFORM TO THE LINES, GRADES, AND ELEVATIONS SHOWN IN THE DRAWINGS OR AS STAKED IN THE FIELD.
 - FILL ADJACENT TO STRUCTURES, PIPE CONDUITS, AND DRAIN FILL OR ANTI-SEEP COLLARS SHALL BE COMPACTED TO A DENSITY EQUIVALENT TO THAT OF THE SURROUNDING FILL BY HAND TAMPING, OR BY USING MANUALLY DIRECTED POWER TAMPERS OR VIBRATORS. FILL ADJACENT TO CONCRETE STRUCTURES SHALL NOT BE COMPACTED UNTIL THE CONCRETE HAS HAD TIME TO GAIN ENOUGH STRENGTH TO SUPPORT THE LOAD.
- ALTERNATE SOILS PROPOSED FOR USE WHICH DIFFER FROM THOSE SPECIFIED ABOVE SHALL BE EVALUATED BY A LICENSED GEOTECHNICAL ENGINEER REGARDING THEIR SUITABILITY FOR ADEQUATE SUPPORT OF THE PROPOSED STRUCTURE PRIOR TO PLACEMENT AT THE SITE.
- A LICENSED GEOTECHNICAL ENGINEERS SHALL CERTIFY THAT ONSITE SOILS ARE SUITABLE FOR USE AS STRUCTURAL FILL.
- STRUCTURAL FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING TEN (10) INCHES IN LOOSE THICKNESS AND COMPACTED WITH A SMOOTH-DRUM VIBRATORY ROLLER HAVING A MINIMUM STATIC WEIGHT OF TEN (10) TONS. THE OPTIMUM LIFT THICKNESS AND NUMBER OF REPETITIVE PASSES WITH COMPACTION EQUIPMENT NECESSARY TO ACHIEVE THE REQUIRED PERCENTAGE COMPACTION VALUES SHALL BE DETERMINED IN THE FIELD WITH TEST PASSES OF THE CHOSEN COMPACTION EQUIPMENT. ALL FILL SHALL BE PLACED AT, OR DEViate NOMINALLY FROM, THE OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH ASTM D1557 AND COMPACTED TO A MINIMUM 95% OF THE SOILS MAXIMUM MODIFIED DRY DENSITY.
- PRIOR TO THE PLACEMENT OF CONCRETE, ALL FOUNDATION BOTTOMS SHALL BE DENSIFIED AND COMPACTED USING A WALK-BEHIND VIBRATORY ROLLER, GAS-POWERED AUTOMATIC TAMPER, OR SIMILAR EQUIPMENT. DENSIFICATION IS REQUIRED TO PROVIDE UNIFORM DENSITY OF THE FOUNDATION. THE DENSITY OF THE FOUNDATION FOR PROPER DISTRIBUTION OF LOADS, PROPER COMPACTION AND DENSIFICATION OF THE FOUNDATION SOILS SHALL BE VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
- IT IS EMPHASIZED THAT CAUTION SHALL BE EXERCISED TO NOT DISTURB FOUNDATION SUBGRADE SOILS. IF THE SUBGRADE IS DISTURBED, THE SOIL SHALL BE COMPACTED IN PLACE OR REMOVED UNTIL FIRM SOIL IS ENCOUNTERED AND THE RESULTING EXCAVATION BACKFILLED WITH CONCRETE OR CONTROLLED STRUCTURAL FILL AS DESCRIBED ABOVE. EVERY EFFORT SHALL BE MADE TO PREVENT WATER FROM ENTERING OPEN FOUNDATION EXCAVATIONS. ANY WATER WHICH MAY ACCUMULATE IN THE BOTTOMS OF THE EXCAVATION SHALL BE REMOVED IMMEDIATELY. IT IS RECOMMENDED THAT FOOTING EXCAVATION AND PLACEMENT OF CONCRETE BE PERFORMED ON THE SAME DAY AND DURING FAIR WEATHER CONDITIONS. INSTALLATION OF THE FOUNDATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH APPLICABLE ACI GUIDELINES, UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.
- GEOTECHNICAL ENGINEERING CONSTRUCTION OBSERVATION SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED GEOTECHNICAL ENGINEER.

CONSTRUCTION TOLERANCE NOTES

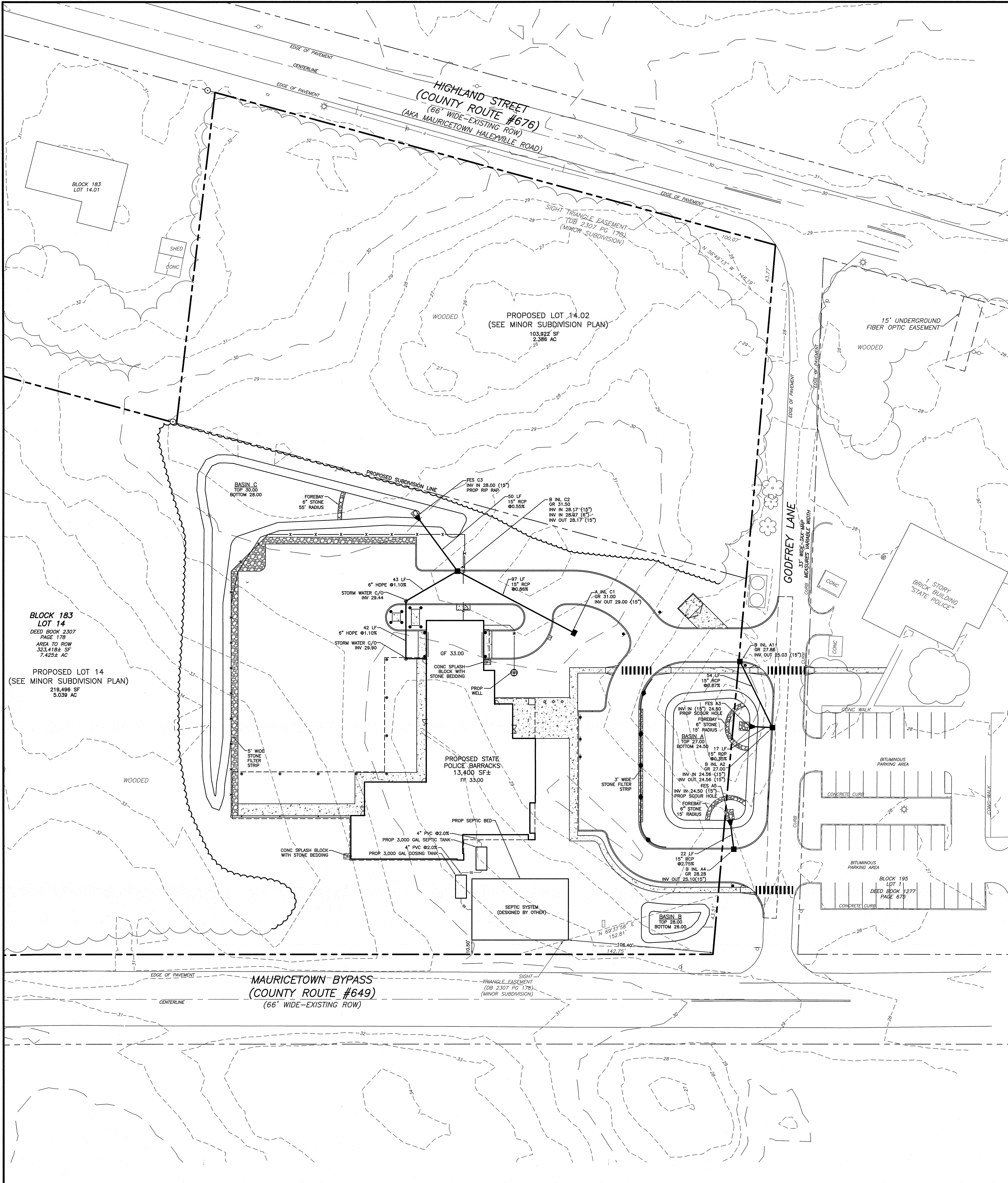
- VERTICAL TOLERANCE SHALL NOT EXCEED THOSE SPECIFIED BY THE AMERICAN CONCRETE INSTITUTE (ACI) PUBLICATION NO. 117.
- WHERE SLOPE IS DIRECTLY AFFECTED BY SEPARATE COMPONENTS (I.E. BUILDING PAD AND CONCRETE CURBING) THE TOLERANCE FOR SLOPE SHALL GOVERN. IN NO CASE SHALL THE SLOPE OF CONCRETE SIDEWALK EXCEED 0.2% DEVIATION THAN DESIGNED.
- IN ALL INSTANCES WHERE HANDICAP ACCESSIBILITY IS REQUIRED, THE MINIMUM AND MAXIMUM VALUES NOTED IN THE CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN SHALL BE STRICTLY ADHERED TO AND NO DEVIATION WILL BE PERMITTED.
- AS-BUILT ELEVATION OF THE BUILDING PAD SHALL BE PERFORMED PRIOR TO CONSTRUCTION OF THE OTHER SITE COMPONENTS. THIS AS-BUILT ELEVATION SHALL ACT AS THE NEW SITE BENCHMARK AND THE REMAINDER OF THE SITE SHALL BE ADJUSTED ACCORDINGLY TO MAINTAIN THE DESIGN INTENT.

LEGEND

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| --- | EXISTING LOT LINE |
| --- | EXISTING TREELINE |
| --- | PROPOSED TREELINE |
| --- | EXISTING CURB |
| --- | PROPOSED CURB |
| --- | EXISTING EDGE OF PAVEMENT |
| --- | PROPOSED EDGE OF PAVEMENT |
| --- | EXISTING FENCE |
| --- | PROPOSED FENCE |
| --- | EXISTING BLOCK NUMBER |
| --- | EXISTING LOT NUMBER |
| --- | PROPOSED LOT NUMBER |
| --- | EXISTING CONTOUR 1' INTERVAL |
| --- | EXISTING CONTOUR 5' INTERVAL |
| --- | EXISTING CONTOUR 1' INTERVAL |
| --- | PROPOSED CONTOUR 5' INTERVAL |
| --- | PROPOSED FINISHED FLOOR ELEVATION |
| --- | PROPOSED SPOT ELEVATION |
| --- | PROPOSED TOP OF CURB ELEVATION |
| --- | PROPOSED BOTTOM OF CURB ELEVATION |
| --- | PROPOSED STORM SEWER & INLET |
| --- | PROPOSED ROOF DRAIN |
| --- | PROPOSED STORM CLEAN OUT |

BLOCK 183
LOT 14
LOT 14.02

GRAPHIC SCALE
0 30 60 Feet
SCALE: 1" = 30'



CONSTRUCTION NOTES

1. ALL CONSTRUCTION, MATERIALS, RESTORATIONS AND METHODS OF INSTALLATION IN COUNTY ROADS SHALL BE SUBJECT TO THE REQUIREMENTS AND APPROVAL OF THE COUNTY ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE EXACT LOCATION OF THE FOLLOWING UTILITIES WITH EACH RESPECTIVE UTILITY COMPANY: LIGHTING POLES, ELECTRICAL TRANSFORMERS, ELECTRICAL SERVICE TO BUILDING(S), TELEPHONE AND CABLE TELEVISION BOXES AND DISTRIBUTION SERVICES TO BUILDING(S), GAS MAINS, GAS SERVICE TO BUILDING(S), AS NEEDED FOR THE PROJECT. IF THERE ARE CONFLICTS, NOTIFY THE ENGINEER, IN WRITING, PRIOR TO INSTALLATION.
3. WHEREVER THE TRENCH BOTTOM DOES NOT AFFORD SUFFICIENT BEARING STRENGTH TO SUSTAIN THE WEIGHT OF THE PIPE AND SUPERIMPOSED LOADS, IT SHALL BE OVER EXCAVATED AND STABILIZED WITH A 12 INCH THICK MINIMUM LAYER OF DENSE GRADED AGGREGATE (DGA).
4. THE CONTRACTOR SHALL VERIFY THE LOCATION AND THE DEPTH OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND PROPOSED UTILITIES AND SHALL UTILIZE THE MANDATORY NOTIFICATION SYSTEM PER LAWS, RULES AND REGULATIONS AT 1-800-272-1000. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE EXCAVATION.
5. CONTRACTOR EFFORTS SHALL BE MADE TO RETAIN EXISTING TREES, VEGETATION AND NATURAL CHARACTERISTICS OF THE TRACT.
6. THE CONTRACTOR SHALL PAY ALL STREET OPENING FEES AND GIVE NOTICES NECESSARY FOR AND INCIDENTAL TO THE DUE AND LAWFUL EXECUTION OF THE PROJECT.
7. NO MATERIALS SHALL BE PLACED NOR ANY DISTURBANCE PERMITTED BEYOND THE PROJECT PROPERTY LINE WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER DIRECTLY INVOLVED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING, PAVING, TOPSOILING, SODDING, FERTILIZING AND SEEDING ALL AREAS DISTURBED BY HIS ACTIVITIES. ROAD PAVEMENT, REPLACEMENT, AND ALL RESTORATION IN MUNICIPAL AND/OR COUNTY ROADS SHALL MEET THE REQUIREMENTS OF THE TOWNSHIP AND/OR COUNTY ENGINEER.
9. INSPECTION OF, OR FAILURE TO INSPECT ANY MATERIALS OR WORKMANSHIP BY STATE, COUNTY OR TOWNSHIP OFFICIALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS, SPECIFICATIONS AND LAWS.
10. PRIOR TO CONSTRUCTION, ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE APPROVED BY THE SOIL CONSERVATION DISTRICT IN COMPLIANCE WITH CHAPTER 251 OF THE PUBLIC LAWS OF 1975. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED OR THE AREA IS STABILIZED IN ACCORDANCE WITH THE SOIL CONSERVATION DISTRICT'S RECOMMENDATIONS.
11. ALL UTILITIES INCLUDING ELECTRIC, TELEPHONE AND CABLE TELEVISION SHALL BE UNDERGROUND.
12. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE AND SHOULD NOT BE RELIED UPON BY THE CONTRACTOR. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATION OF ALL UTILITIES, BOTH UNDERGROUND, ABOVE GROUND AND OVERHEAD, BEFORE THE ORDERING OF MATERIALS OR COMMENCEMENT OF CONSTRUCTION.
13. ALL WATER PIPING 4" AND LARGER SHALL BE CLASS 52 CEMENT UNED DUCTILE IRON PIPE WITH PUSH-ON JOINTS. MEGA LUG RETAINER GLANDS SHALL BE PROVIDED FOR DIP. FITTINGS: PIPING SMALLER THAN 3" SHALL BE TYPE "K" SOFT TEMPER COPPER TUBING WITH FLARED FITTINGS. WATER PIPING SHALL BE DISINFECTED BY CONTACT WITH A CHLORINE SOLUTION NOT LESS THAN 50 PPM FOR NOT LESS THAN 24 HOURS. ALL WATER PIPING AND APPURTENANCES SHALL BE APPROVED BY THE UTILITY COMPANY PRIOR TO INSTALLATION.
14. ALL WATER PIPING TO BE PLACED AT A MINIMUM FINAL COVERAGE DEPTH OF 42", MAXIMUM 48", UNLESS A WATER MAIN OFFSET IS REQUIRED.
15. ALL WATER MAINS AND SANITARY OR INDUSTRIAL SEWER LINES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 10 FEET. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE WATER AND SEWER LINES SHALL BE IN SEPARATE TRENCHES (STEP TRENCHES ARE PROHIBITED) WITH THE TOP OF THE SEWER LINE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN OR WITH SUCH OTHER SEPARATION EXPRESSLY APPROVED BY THE DEPARTMENT. AT CROSSINGS OF SEWER LINES AND WATER MAINS, THE TOP OF THE SEWER LINES SHALL BE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN (SEWER SERVICE LATERALS ARE NOT SUBJECT TO THIS REQUIREMENT). IF SUCH VERTICAL SEPARATION IS NOT POSSIBLE, THE SEWER LINE SHALL BE OF WATER TIGHT CONSTRUCTION (THAT IS, DUCTILE IRON OR REINFORCED CONCRETE PIPE), WITH WATERTIGHT JOINTS THAT ARE A MINIMUM OF 10 FEET FROM THE WATER MAIN.
16. THRUST BLOCKS ARE TO BE INSTALLED AT ALL WATER MAIN BENDS.
17. PVC SANITARY SEWER PIPE SHALL BE SDR-35 FOR PIPE DEPTHS OF 0'-12' (FEET), FOR DEPTHS OF 12'-20' (FEET), SDR-26 SHALL BE USED AND FOR DEPTHS GREATER THAN 20' (FEET) DUCTILE IRON PIPE (DIP) SHALL BE USED. ALL SANITARY SEWER MAINS SHALL BE TAMPED AND TESTED FOR LOW PRESSURE EXFILTRATION.
18. NO SANITARY SEWER LATERALS SHALL BE CONNECTED DIRECTLY TO ANY MANHOLES.
19. TV INSPECTION, IF REQUIRED BY THE UTILITY AUTHORITY FOR THE SANITARY SEWER SYSTEM, SHALL BE COMPLETED TO THE SATISFACTION OF THE UTILITY COMPANY ENGINEER PRIOR TO FINAL APPROVAL.
20. ALL STORM SEWER PIPE TO BE RCP CLASS III WITH OPEN JOINTS, UNLESS NOTED OTHERWISE. ALL PIPE JOINTS ARE TO BE GROUTED AND WRAPPED WITH A 30 INCH STRIP OF FILTER FABRIC TO PREVENT SEDIMENT FROM ENTERING THE PIPE IN THE EVENT OF JOINT FAILURE.
21. ALL ROOF DRAIN PIPING REFER TO ARCHITECTURAL PLAN.
22. TRENCH BACKFILL SHALL BE COMPACTED TO 95% OF DRY DENSITY PER D-1557.
23. AT THE END OF EACH WORKING DAY THE CONTRACTOR SHALL COMPLETELY BACKFILL TRENCH.
24. THE ROADWAY SHALL BE SWEEP CLEAN AT THE END OF EACH WORKING DAY.
25. MANHOLE CASTINGS THAT MUST BE RAISED SHALL BE USING A MAXIMUM OF 3 PRE-CAST CONCRETE GRADE RINGS THAT COMPLY WITH C-478-90B.

INITIAL STORMWATER INFILTRATION BASIN CONSTRUCTION NOTES

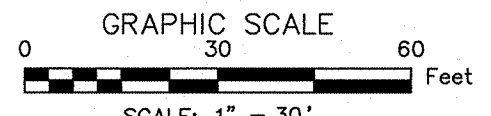
1. DURING THE EXCAVATION OF THE BASIN A NJ LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER MUST WITNESS AND CERTIFY THAT ALL EXCAVATION OPERATION WERE COMPLETED IN COMPLIANCE WITH THE PLANS.
2. A POST EXCAVATION PERCOLATION TEST MUST BE PERFORMED TO CONFIRM THE DESIGN INFILTRATION RATE OF K-4 (6-20 IN/HR) AND CERTIFIED BY A NJ LICENSED PROFESSIONAL ENGINEER. SOIL BELOW THE BASIN MUST BE REPLACED AS DIRECTED BY A NJ LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER IF REQUIRED TO ACHIEVE THE DESIGN INFILTRATION RATE OF K-4 (6 TO 20 IN/HR).
3. IF ANY CLAY/SILT AND/OR RESTRICTIVE LAYERS ARE ENCOUNTERED DURING THE BASIN EXCAVATION OPERATION CES MUST BE NOTIFIED AT THE INITIAL TIME OF ENCOUNTER. ALL CLAY/SILT AND RESTRICTIVE LAYERS ENCOUNTERED UNDER THE BASIN SHALL BE REMOVED AND REPLACED TO OBTAIN THE INFILTRATION DESIGN RATE (K-4, 6-20 IN/HR) AND COMPLIANCE WITH THE INTENT OF THE DESIGN WITHIN 72 HOURS.
4. ALL CERTIFICATIONS FOR BASIN CONSTRUCTION/EXCAVATION AND POST EXCAVATION PERCOLATION TEST MUST BE SUBMITTED TO CES IMMEDIATELY AFTER INITIAL BASIN EXCAVATION IS COMPLETE.
5. THE BOTTOM OF THE STORMWATER BASIN IS NOT TO BE EXCAVATED UNTIL THE PROJECT SITE IS COMPLETELY STABILIZED.
6. THE STORMWATER BASIN DURING INTIAL CONSTRUCTION SHALL BE EXCAVATED TO AN ELEVATION 1.5 FEET ABOVE THE BOTTOM OF BASIN ELEVATION TO PROVIDE A MEANS FOR REMOVAL OF COLLECTED SEDIMENT AT THE BOTTOM OF BASIN WHEN THE ENTIRE PROJECT IS STABILIZED AND NEARLY COMPLETE.
7. ALL HEADWALLS SHALL BE INSTALLED AT THE FINAL INVERTS AS SHOWN ON THE DRAWING. INTERIM STABILIZATION FOR THE HEADWALL SHALL BE PROVIDED AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN. STONE RIP RAP SHALL BE INSTALLED AFTER THE BOTTOM OF THE BASIN IS CONSTRUCTED WITH THE REQUIRED SAND BOTTOM.
8. CLEAN STORM WATER INLETS AND PIPING PRIOR TO THE EXCAVATION OF THE FINAL BASIN BOTTOM.
9. WHEN THE PROJECT IS STABILIZED AND NEARLY COMPLETE AND WITH APPROVAL OF THE TOWNSHIP PLANNING BOARD ENGINEER THE STORM WATER BASIN BOTTOM WILL BE EXCAVATED TO THE FINAL DEPTH AS SHOWN ON THE DRAWINGS. A 6 INCH THICK LAYER OF SAND MATERIAL WILL BE PLACED WITHIN THE ENTIRE AREA OF THE BASIN BOTTOM. THE SAND MATERIAL SHALL HAVE A MINIMUM PERMEABILITY OF 20 INCHES PER HOUR (K-5) WITH 15% FINES (MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER TO HAVE A VALUE OF K5 OR BETTER).
10. LIGHT WEIGHT EQUIPMENT SHALL BE USED IN THE CONSTRUCTION OF THE BASIN TO PREVENT COMPACTION OF THE BASIN BOTTOM.

HDPE DRAINAGE PIPE NOTES AND SPECIFICATIONS

1. UNLESS OTHERWISE NOTED STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE SMOOTH INTERIOR/CORRUGATED EXTERIOR PIPE, OR APPROVED EQUAL, JOINED WITH BELL AND SPIGOT JOINTS CONFORMING TO THE FOLLOWING SPECIFICATIONS:
 - A. THE PIPE SHALL BE HIGH DENSITY POLYETHYLENE, WITH A CORRUGATED EXTERIOR AND SMOOTH INTERIOR, CONFORMING TO AASHTO M294 TYPE "S", MANNINGS "N" VALUE SHALL NOT EXCEED 0.010. PIPE MATERIALS SHALL MEET ASTM D1248, TYPE II, CATEGORY 4, GRADE P33, 12 INCH DIAMETER.
 - B. THE PIPE SHALL BE JOINED WITH "SURE-LOCK" BELL AND SPIGOT JOINTS MEETING THE REQUIREMENT OF AASHTO M294. THE JOINT SHALL BE SOIL TIGHT WITH GASKETS AND SHALL MEET THE REQUIREMENTS OF ASTM F477. GASKETS SHALL BE PROVIDED BY THE MANUFACTURER AND COVERED WITH REMOVABLE WRAP TO INSURE THE GASKET IS FREE FROM DEBRIS.
 - C. FITTINGS SHALL CONFORM TO AASHTO M252, M294, OR ASTM F2306.
 - D. ALL PIPE, FITTINGS, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE FOLLOWING REFERENCE STANDARDS:
 - AASHTO M552, TYPE S- SPECIFICATION FOR CORRUGATED POLYETHYLENE DRAINAGE PIPE, 4 TO 10 INCH DIAMETER.
 - AASHTO M294, TYPE S - SPECIFICATION FOR CORRUGATED POLYETHYLENE DRAINAGE PIPE, 12 TO 36 INCH DIAMETER.
 - ASTM D1058 - SPECIFICATION FOR FLEXIBLE CELLULAR MATERIALS, SPONGE OR EXPANDED RUBBER.
 - ASTM D1248 - SPECIFICATION FOR POLYETHYLENE PLASTICS MOLDING AND EXTRUSION MATERIAL.
 - ASTM D2321 - STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE.
 - ASTM D3350 - STANDARD SPECIFICATIONS FOR POLYETHYLENE PLASTIC PIPE AND FITTINGS MATERIALS.
2. ALL PIPE SHALL BE INSTALLED WITH A MINIMUM OF TWO FEET (2.0') OF COVER, AS INDICATED ON THE PLANS, AND SHALL MEET THE STRENGTH REQUIREMENTS FOR INSTALLATION IN AREAS SUBJECT TO VEHICULAR TRAFFIC, BASED UPON HS-20 AASHTO LOADING.
3. ALL PIPE JOINTS SHALL BE WRAPPED WITH A THIRTY INCH (30") WIDE STRIP OF FILTER FABRIC, EQUALLY SPACED AROUND THE JOINT, TO PREVENT SEDIMENT FROM ENTERING THE PIPE IN THE EVENT OF JOINT FAILURE.
4. ALL PIPE DELIVERED TO THE PROJECT SITE SHALL BE MARKED WITH THE MANUFACTURER'S NAME AND THE CLASS AND TYPE OF PIPE.
5. PIPE INSTALLATION SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 - A. THE TRENCH SHALL BE EXCAVATED WIDE ENOUGH TO ADEQUATELY PLACE AND COMPACT BACKFILL MATERIAL, BUT SHOULD NOT BE MORE THAN THE WIDTH OF THE PIPE PLUS TWO FEET.
 - B. BACKFILL MATERIALS SHALL CONFORM TO THE ASTM D2321 CLASS I, II OR III. NATIVE SOIL MAY BE USED AS BACKFILL PROVIDED IT MEETS THE REQUIREMENTS OF ASTM D2321 FOR THE RESPECTIVE CLASS OF MATERIAL. EXCAVATED MATERIALS NOT CONFORMING WITH THIS REQUIREMENT MUST BE REPLACED WITH SUITABLE MATERIAL APPROVED BY TOWNSHIP ENGINEER.
 - C. BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING EIGHT INCHES (8") IN COMPACTED THICKNESS. THE INITIAL LAYER OF BACKFILL MATERIAL SHOULD BE PLACED EVENLY ON BOTH SIDES OF THE PIPE UNDER THE HANDBENCHES OF THE PIPE TO ENSURE EVEN LOAD DISTRIBUTION OVER THE PIPE.
 - D. BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE STANDARD PROCTOR DENSITY. HAND-OPERATED RAMMER TYPE COMPACTORS AND VIBRATING COMPACTORS MAY BE USED FOR COMPACTING BACKFILL. CAUTION SHOULD BE USED TO ENSURE THAT DAMAGE IS NOT DONE TO THE PIPE AS A RESULT OF DIRECT IMPACT OF THE COMPACTION EQUIPMENT ON THE PIPING MATERIALS.

LEGEND

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| | PROPERTY OUTBOUND |
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| | EXISTING TREELINE |
| | PROPOSED TREE LINE |
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| | PROPOSED CURB |
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| | PROPOSED EDGE OF PAVEMENT |
| | EXISTING FENCE |
| | PROPOSED FENCE |
| | EXISTING UTILITY POLE |
| | EXISTING UTILITY POLE W/LIGHT |
| | EXISTING UTILITY POLE W/GUY |
| | EXISTING LIGHT |
| | PROPOSED STORM SEWER & INLET/MANHOLE |
| | PROPOSED CLEAN OUT |
| | PROPOSED STORM ROOF DRAIN |



PREPARED BY
CONSULTING ENGINEER SERVICES
PROFESSOR OF CIVIL ENGINEERING
645 BERLIN-CROSS KEY ROAD, SUITE 300
NEW JERSEY 08081
PHONE (609) 238-2200 - FAX (609) 232-2346 - EMAIL design@ces-1.com
NJ CERTIFICATE OF AUTHORIZATION No. 2 26927975700, 21W000154

UTILITY PLAN

NEW JERSEY STATE POLICE TROOP A - PORT NORRIS BARRACKS
2007 HIGHLAND ST, PORT NORRIS COMMERCIAL TWP. NJ 08349
PLATE 7, BLOCK 183, LOT 14

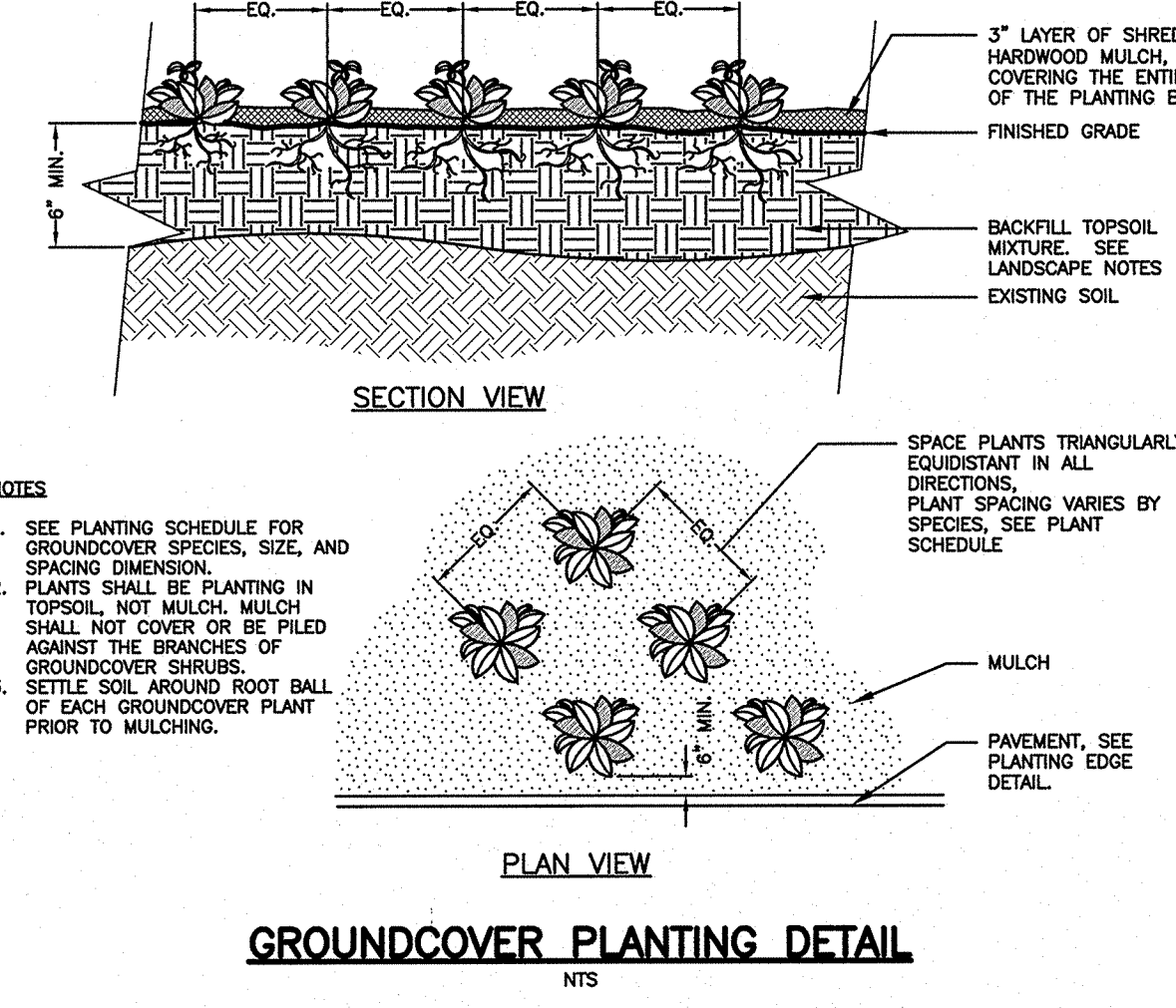
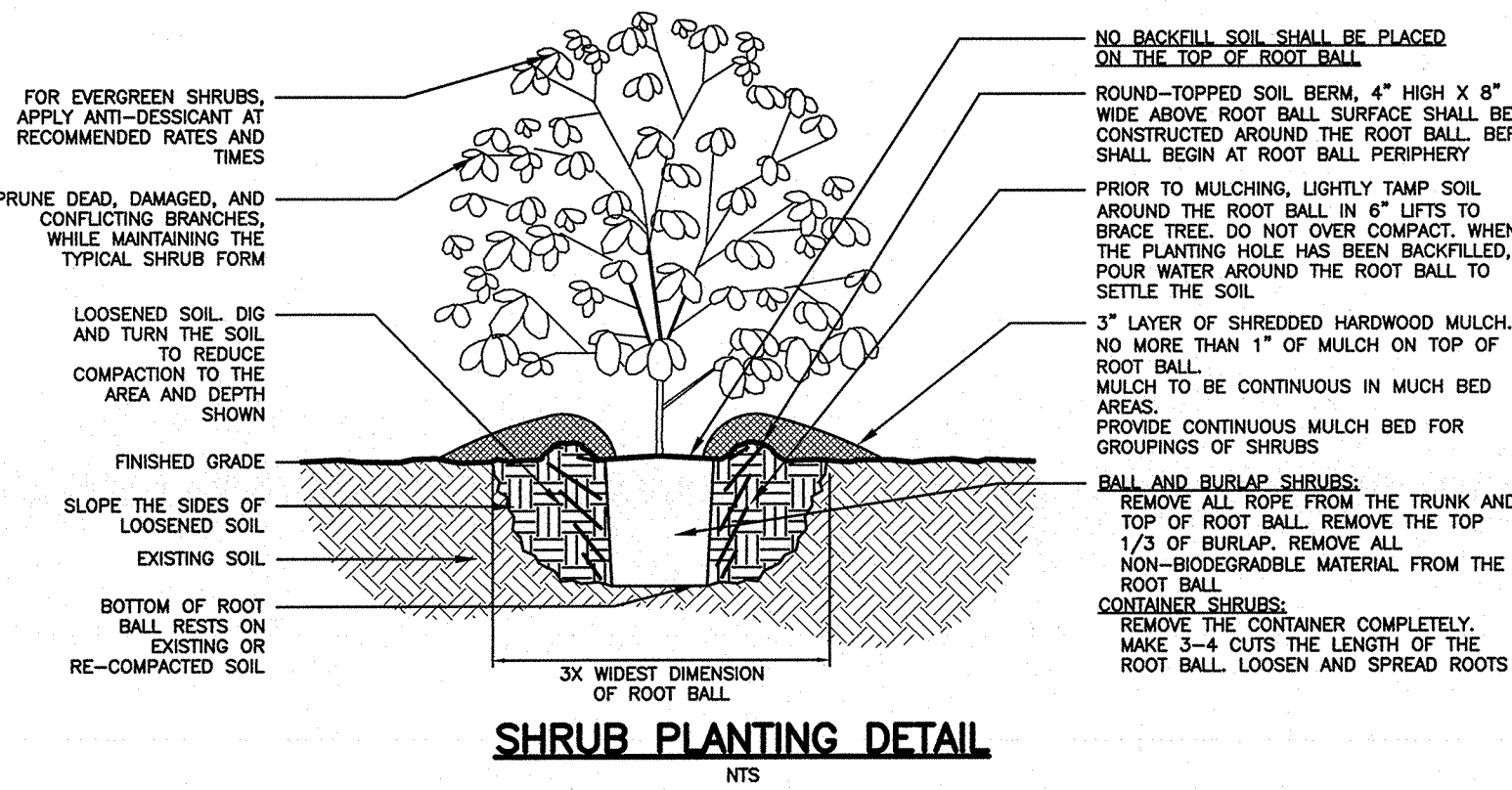
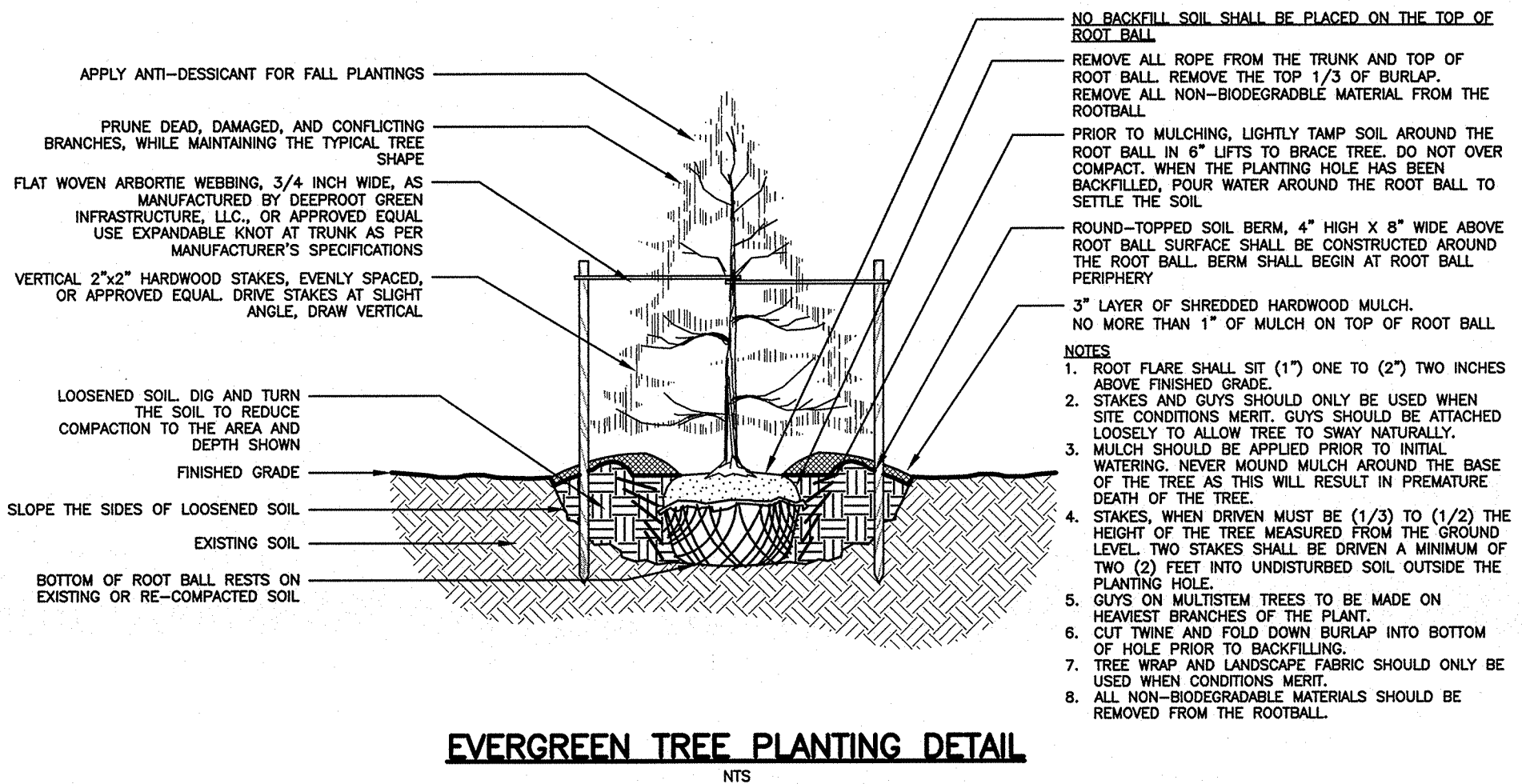
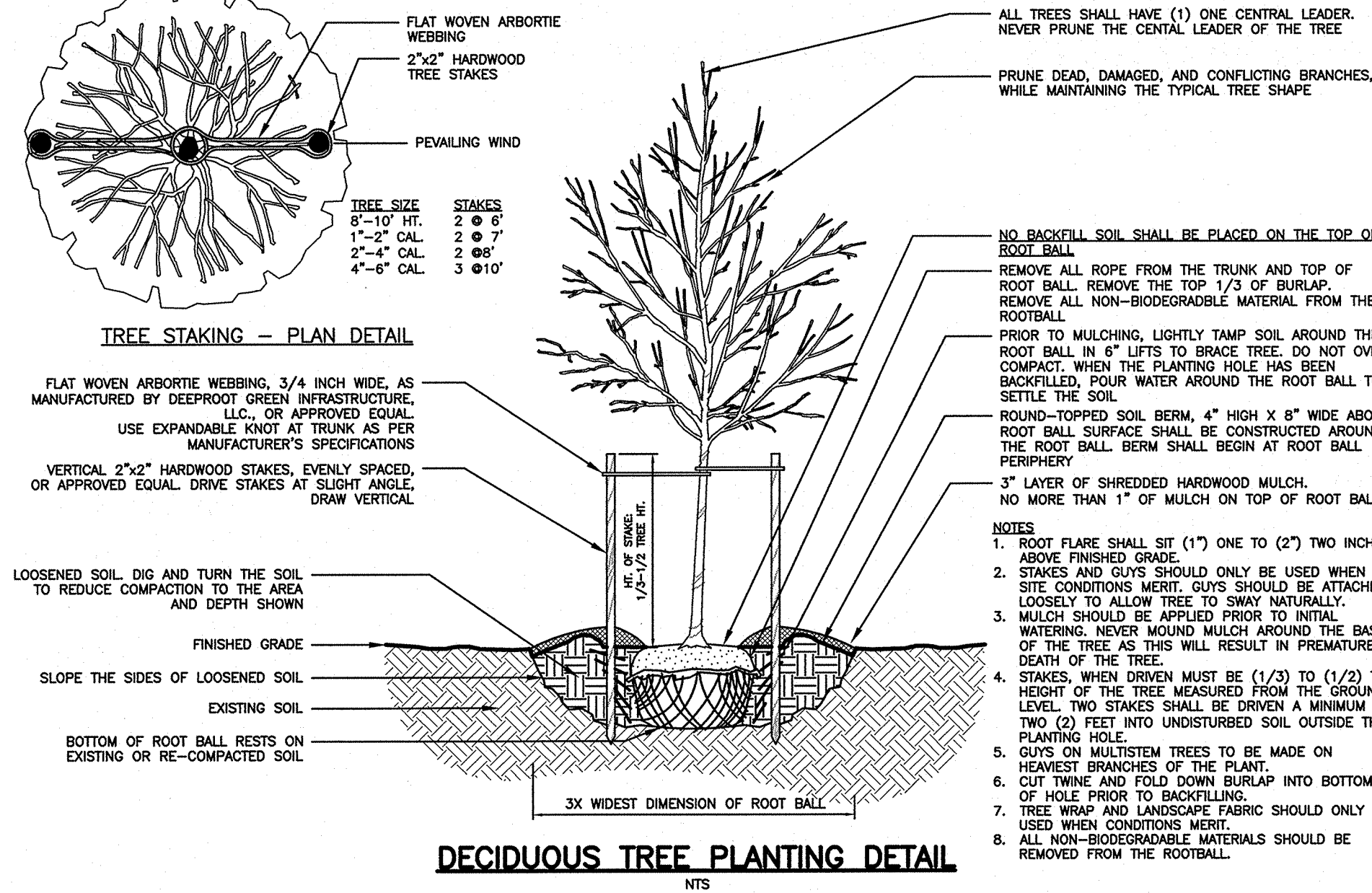
DATE	RELEASED FOR BIDDING	REVISIONS
JAN 01/17/24	RELEASED FOR BIDDING	
JAN 01/17/24	REVISED FOR REVIEW	
DATE	DATE	REVISIONS
DOWN	DOWN	DOWN

O. ANDREW SIMKINS
PROFESSIONAL ENGINEER, NEW JERSEY LIC. NO. 24GE03022300

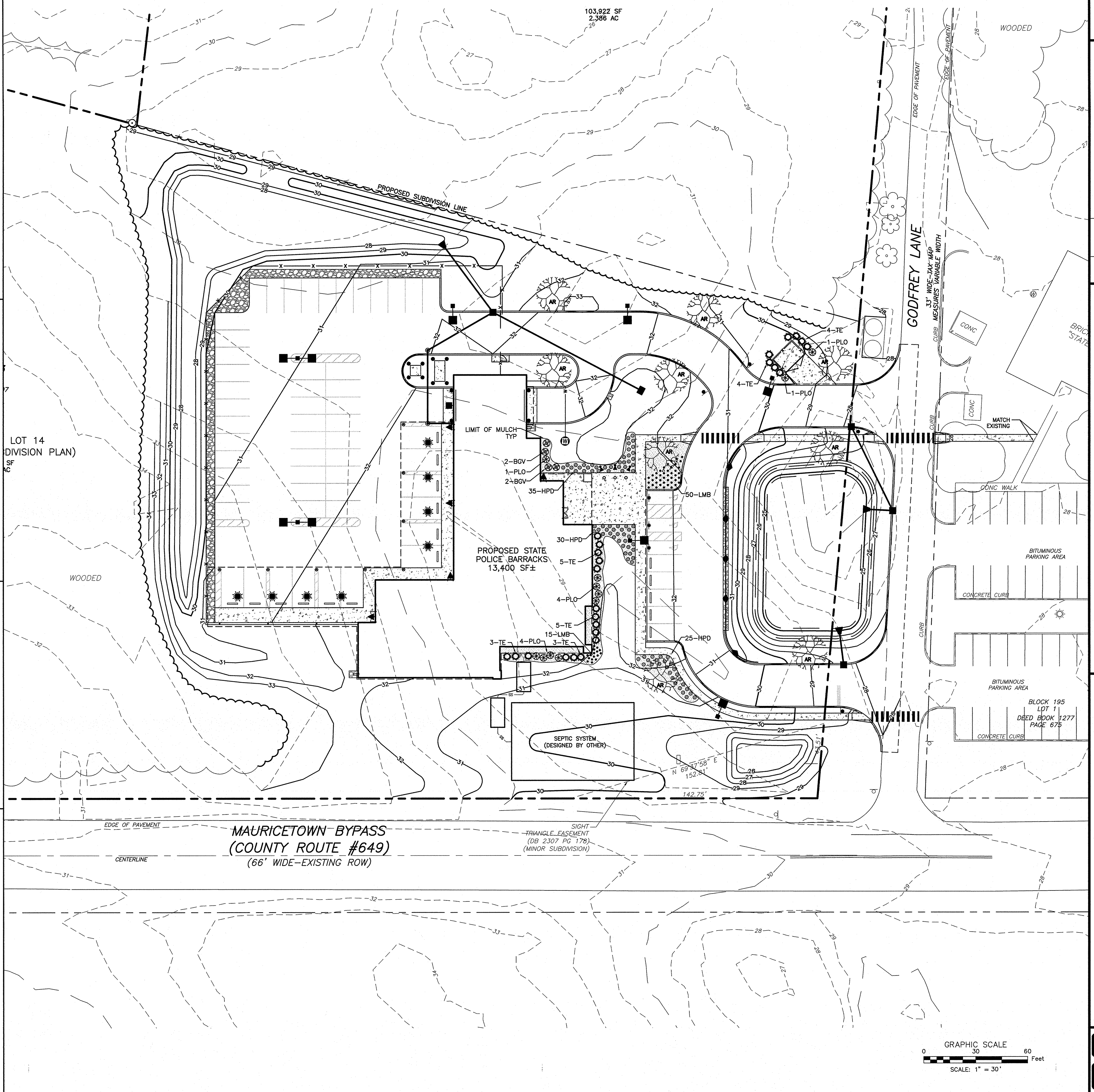
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01/14/24

LANDSCAPING NOTES

- TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL TOPSOIL OF A LOAMY CHARACTER WITHOUT ADMIXTURE OF CLAY, HARDPAN, MULCH, MARL, SHELL, OR FINE SAND AND CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHALL BE FREE OF STONES, LUMPS, PLANTS OR THEIR ROOTS OR SEEDS, STICKS, AND OTHER EXTRANEEOUS MATTER AND SHALL CONTAIN NO SUBSTANCE OR MATERIAL INHIBITORY TO PLANT GROWTH.
- BARK MULCH SHALL BE SPLINTERED DECORATIVE PINE BARK INSTALLED AND MAINTAINED AS A MAXIMUM 4 INCH (4") TOP DRESSING AROUND THE BASES OF ALL TREES IN LAWN AREAS. DO NOT MOUND MULCH AROUND THE BASE OF ANY WOODY PLANTS AS THIS WILL RESULT IN THE PREMATURE DEATH OF THE PLANT.
- MULCH SHOULD BE APPLIED PRIOR TO INITIAL WATERING TO PREVENT ANY UNNECESSARY SETTLING OF BACKFILL MATERIAL, AND ANY MOISTURE LOSS DUE TO EVAPORATION.
- ALL DISTURBED AREAS NOT CONTAINING BUILDINGS, PAVEMENT, SIDEWALK, OR LANDSCAPING SHALL BE TOPSOILED, FERTILIZED, AND SEEDED OR SODDED IN ACCORDANCE WITH THE SPECIFICATIONS FOR PERMANENT VEGETATIVE COVER IN THE NOTES FOR SOIL EROSION AND SEDIMENT CONTROL.
- NURSERY GROWN SOD IS ACCEPTABLE AS AN OPTION TO SEEDED LAWN. SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF ONE-HALF INCH (1/2"), PLUS OR MINUS ONE QUARTER INCH (1/4"), AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH. SOD SHALL BE IN ROLLS NO LESS THAN TWELVE INCHES (12") WIDE AND FOUR FEET (4') LONG AND NOT MORE THAN SIX FEET (6') LONG. GRASS BLADES WILL BE CUT TO A UNIFORM LENGTH. THE GRASS SHALL BE WELL ESTABLISHED (AT LEAST ONE YEAR OLD), VIGOROUS, HEALTHY, AND GROWING. IT SHALL BE FREE OF DISEASE AND NOXIOUS PERENNIAL WEEDS. SOD SHALL BE OF GOOD AND HEALTHY COLOR WHEN DELIVERED. ROLLS AND SOLID SHOULD NOT CRUMBLING OR TEARING. SOD SHALL BE HARVESTED AND DELIVERED WITHIN A 36 HOUR PERIOD, AND ALL PRECAUTIONS MUST BE TAKEN TO PREVENT THE SOD FROM DRYING WHILE IN TRANSIT TO THE SITE.
- GRASS SEED SHALL MEET THE REQUIREMENTS OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, AND NO "BELOW STANDARD" SEED WILL BE ACCEPTED. SEED SHALL BEAR THE GROWER'S GUARANTEE OF ANALYSIS. WET, MOLDY, OR OTHERWISE CONTAMINATED SEED SHALL BE REJECTED.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES UNDERGROUND PER THE UNDERGROUND FACILITY PROTECTION ACT, BETTER KNOWN AS THE "ONE CALL LAW," OCTOBER 1994. THIS LAW REQUIRES THAT ANYONE DIGGING MUST CALL 1-800-272-1000 OR 811, 72 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR DEMOLITION SO THAT OPERATORS CAN MARKOUT THEIR UNDERGROUND UTILITIES IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS.
- PLANTINGS SHALL BE INSTALLED ONLY DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH LOCAL ACCEPTED PRACTICES.
- ALL PLANTINGS SHALL CONFORM TO THE MOST RECENT EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK," AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
- ALL TREES MUST BE GUARANTEED FOR A PERIOD OF TWO (2) FULL GROWING SEASONS FROM THE TIME OF FINAL ACCEPTANCE BY THE TOWNSHIP. ALL TREES NOT SURVIVING TWO (2) YEARS SHALL BE REPLACED IN KIND. THE CONTRACTOR SHALL REMOVE STAKING, GUYING, AND WRAP AT THE END OF THE GUARANTEED PERIOD.
- ALL PLANT MATERIAL NOT SURVIVING FOR A PERIOD OF TWO (2) YEARS SHALL BE REPLACED WITH THE SAME OR EQUIVALENT SPECIES.
- ALL SHADE TREES PROPOSED ALONG STREETS SHALL BE LOCATED SIX FEET (6') BACK FROM THE INSIDE EDGE OF THE SIDEWALK UNLESS NOTED OTHERWISE. NO TREES SHALL BE PLANTED BETWEEN THE CURB AND SIDEWALK.
- ALL TREES SHALL BE TYPICAL OF THEIR SPECIES AND/OR VARIETY, HAVING WELL-DEVELOPED BRANCHES AND HEALTHY ROOT SYSTEMS. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, AND FREE FROM DEFECTS, DISFIGURING KNOTS, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT EGGS, BORERS, AND ALL OTHER FORMS OF INFECTION.
- ALL TREES AND PLANTS SHALL BE NURSERY GROWN AND SHALL BE TAGGED WITH NURSERY LABELS INDICATING THE SPECIES AND VARIETY.
- ALL NON-BIODEGRADABLE MATERIAL SHALL BE REMOVED FROM THE ROOTBALLS AT TIME OF INSTALLATION.
- GUY WIRES AND STAKES WILL ONLY BE UTILIZED IF CONDITIONS MERIT AND WILL BE REMOVED BY THE DEVELOPER AT THE END OF THE GUARANTEE PERIOD.



PLANTING LIST						
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	HEIGHT	CALIPER	COMMENT
DECIDUOUS TREES						
AR	9	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	10-12 FEET	2-2 1/2 INCHES	B&B
SHRUBS						
BOV	4	BUXUS var 'GREEN VELVET'	GREEN VELVET BOXWOOD	24-36 INCHES	N/A	B&B
PLO	11	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN CHERRY LAUREL	24-36 INCHES	N/A	B&B
TE	24	THUJA OCCIDENTALIS 'EMERALD GREEN'	EMERALD GREEN ARBORVITAE	3-4 FEET	N/A	B&B
PERENNIALS						
HPD	90	HEMEROCALLIS 'PARDON ME'	PARDON ME DAYLILY	12 INCHES	N/A	#2 CAN
LMB	65	LIRIOPE MUSCATA 'BIG BLUE'	BIG BLUE LIRIOPE	12 INCHES	N/A	#2 CAN



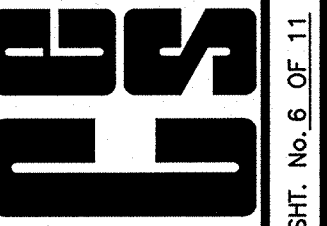
LANDSCAPING PLAN

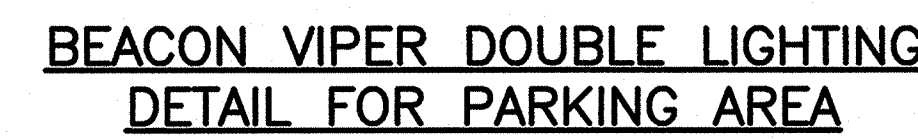
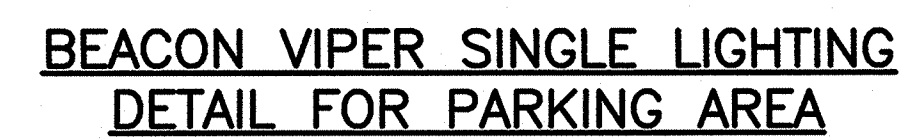
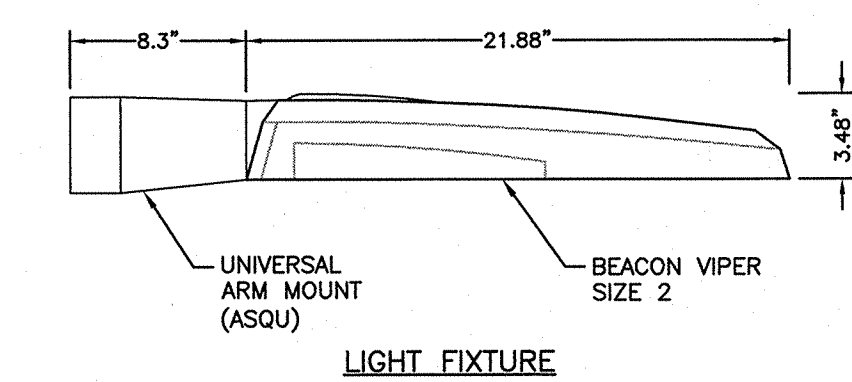
NEW JERSEY STATE POLICE TROOP A - PORT NORRIS BARRACKS
2007 HIGHLAND ST, PORT NORRIS COMMERCIAL TWP. NJ 08349
PLATE 7, BLOCK 183, LOT 14

PREPARED BY
CONSULTING ENGINEER SERVICES
PROFESSIONAL ENGINEER
645 BERLIN-CROSS KEYS ROAD, SUITE 11, SICKLEVILLE, NEW JERSEY 08081
PHONE (609) 228-2200 - FAX (609) 232-2348 - EMAIL design@ces-1.com
NJ CERTIFICATE OF AUTHORIZATION NO. 2460275700, 2140000134

DATE 01/14/24
SCALE 1"=30'
DATE 09/28/23
FILE NO. 3955-04-1101
DRAWN BY JMS

O. ANDREW SIMKINS
PROFESSIONAL ENGINEER, NEW JERSEY LIC. NO. 246030292300

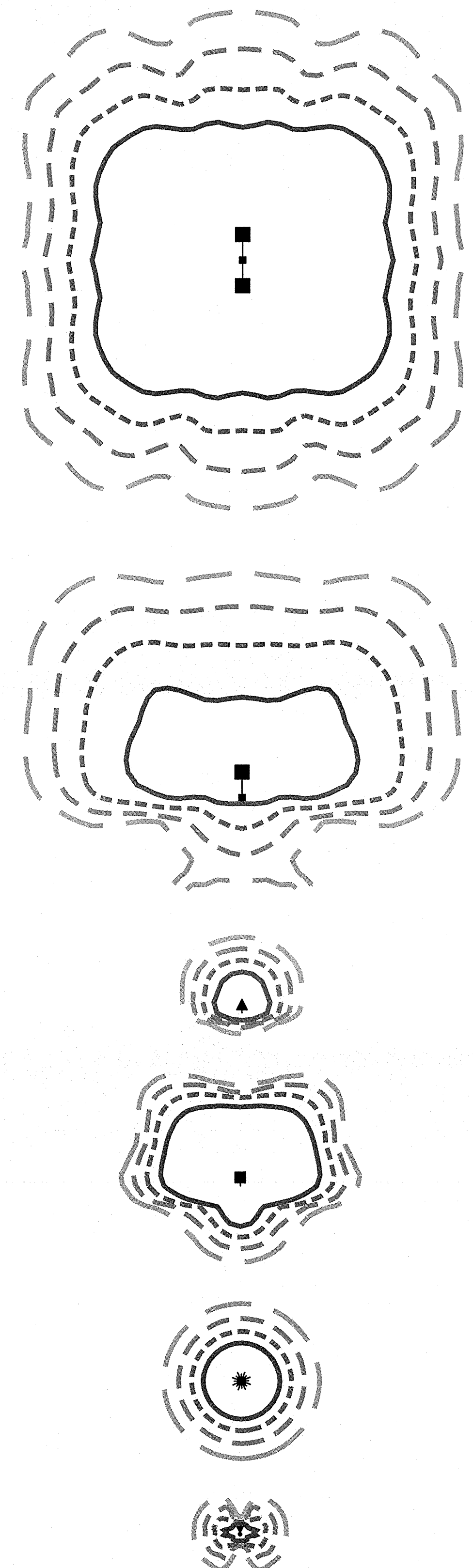
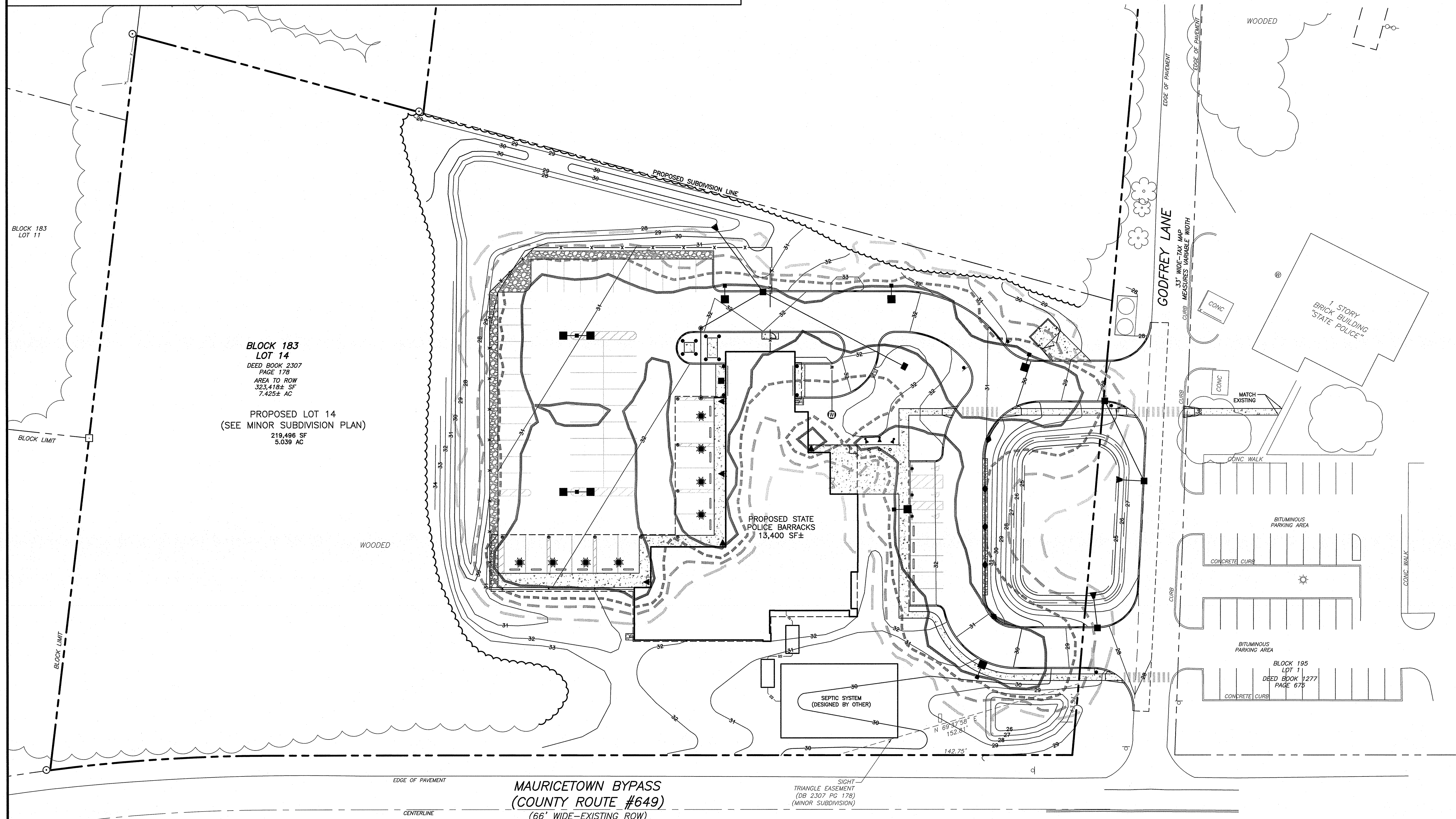




NOTE: POLE, MOUNTING ACCESSORIES AND CONTROL ACCESSORIES TO BE SELECTED. ADDITIONAL FIXTURE OPTIONS MAY CHANGE ILLUMINATIONS PATTERNS

NOTES:

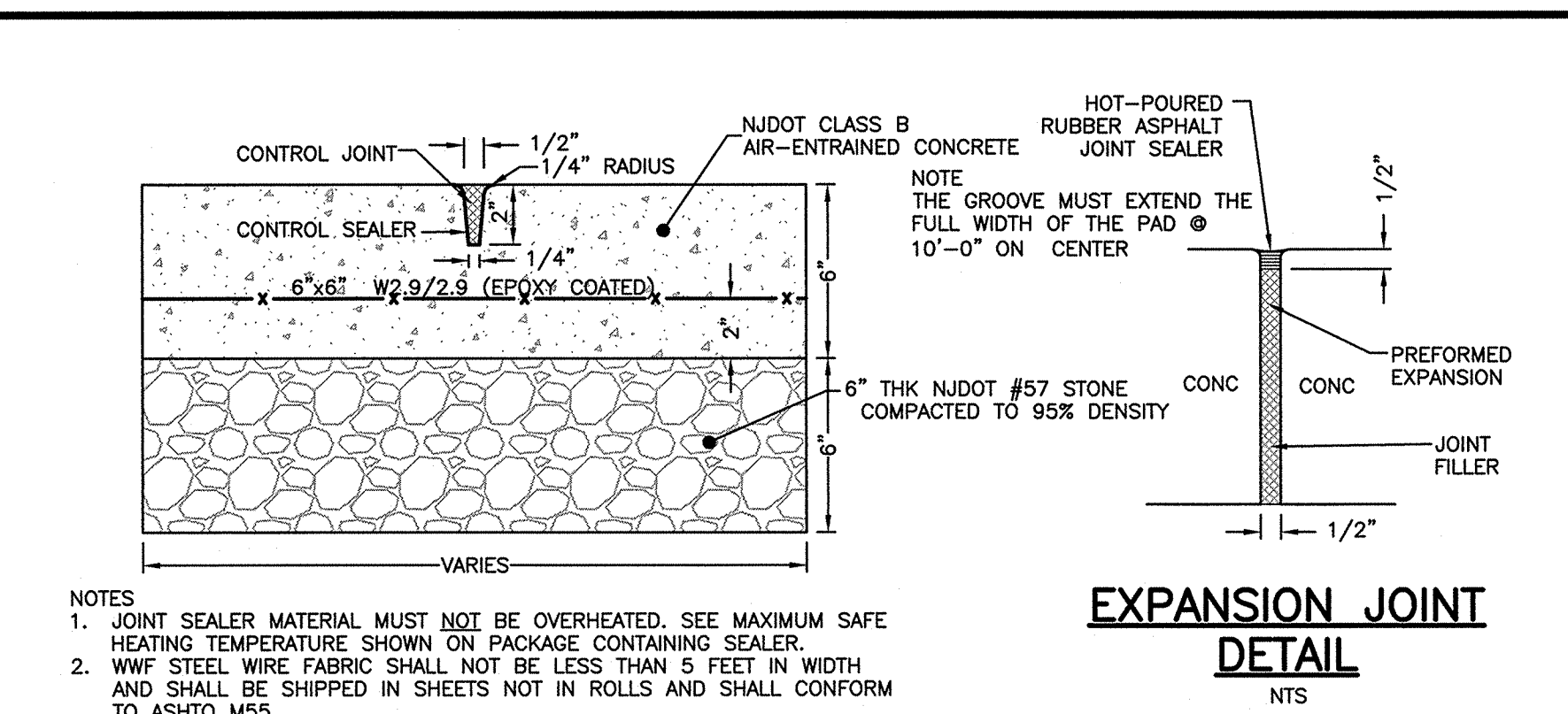
1. FIXTURES MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL, STATE AND/OR LOCAL ELECTRICAL CODES. FAILURE TO DO SO MAY RESULT IN SERIOUS PERSONAL INJURY.
2. ADDITIONAL MOUNTING HARDWARE MAY BE NECESSARY FOR COMPLETE ASSEMBLY.
3. PRODUCT SPECIFIC INFORMATION AND ASSEMBLY INSTRUCTIONS CAN BE OBTAINED THROUGH CONTACTING MANUFACTURER AND/OR DISTRIBUTOR.



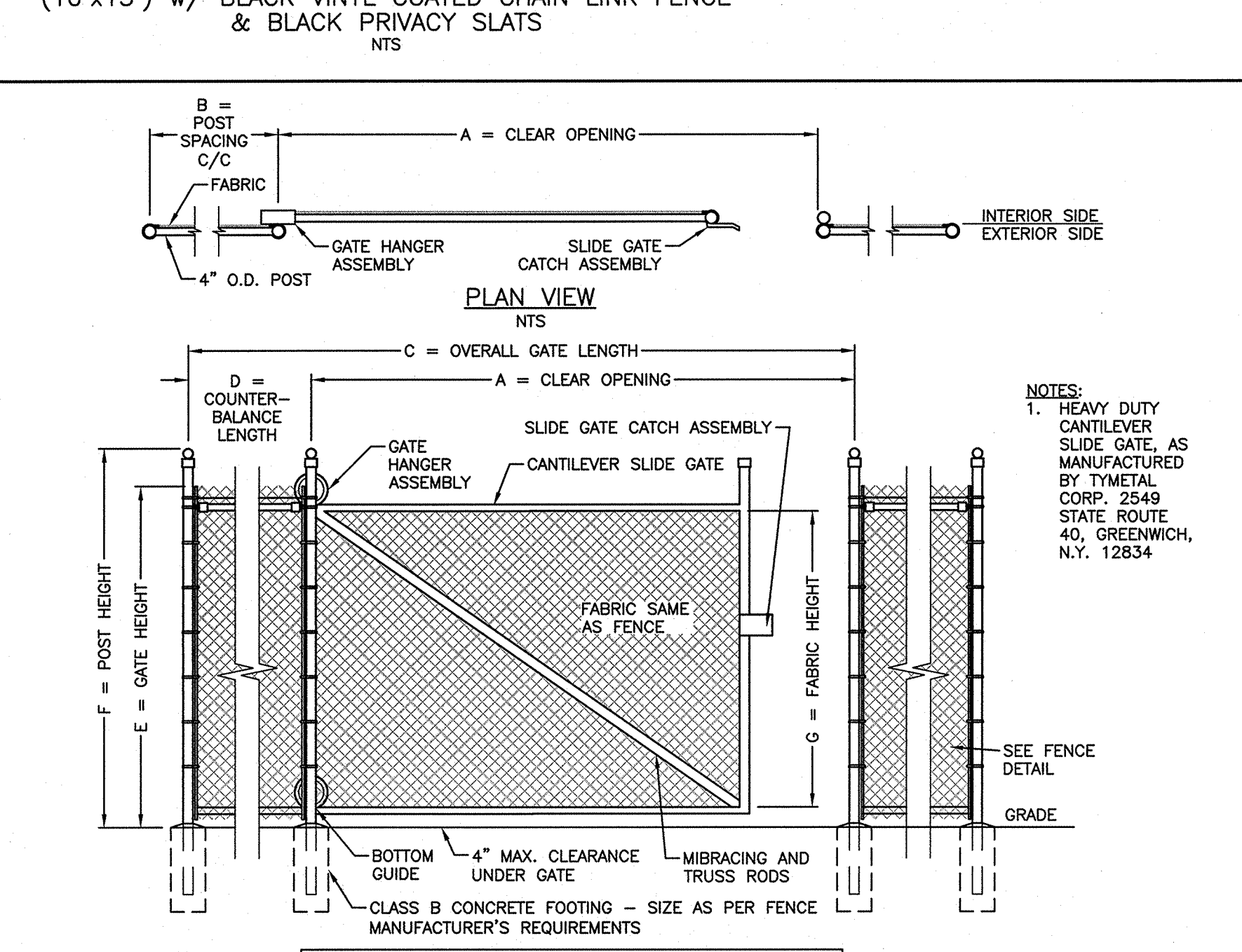
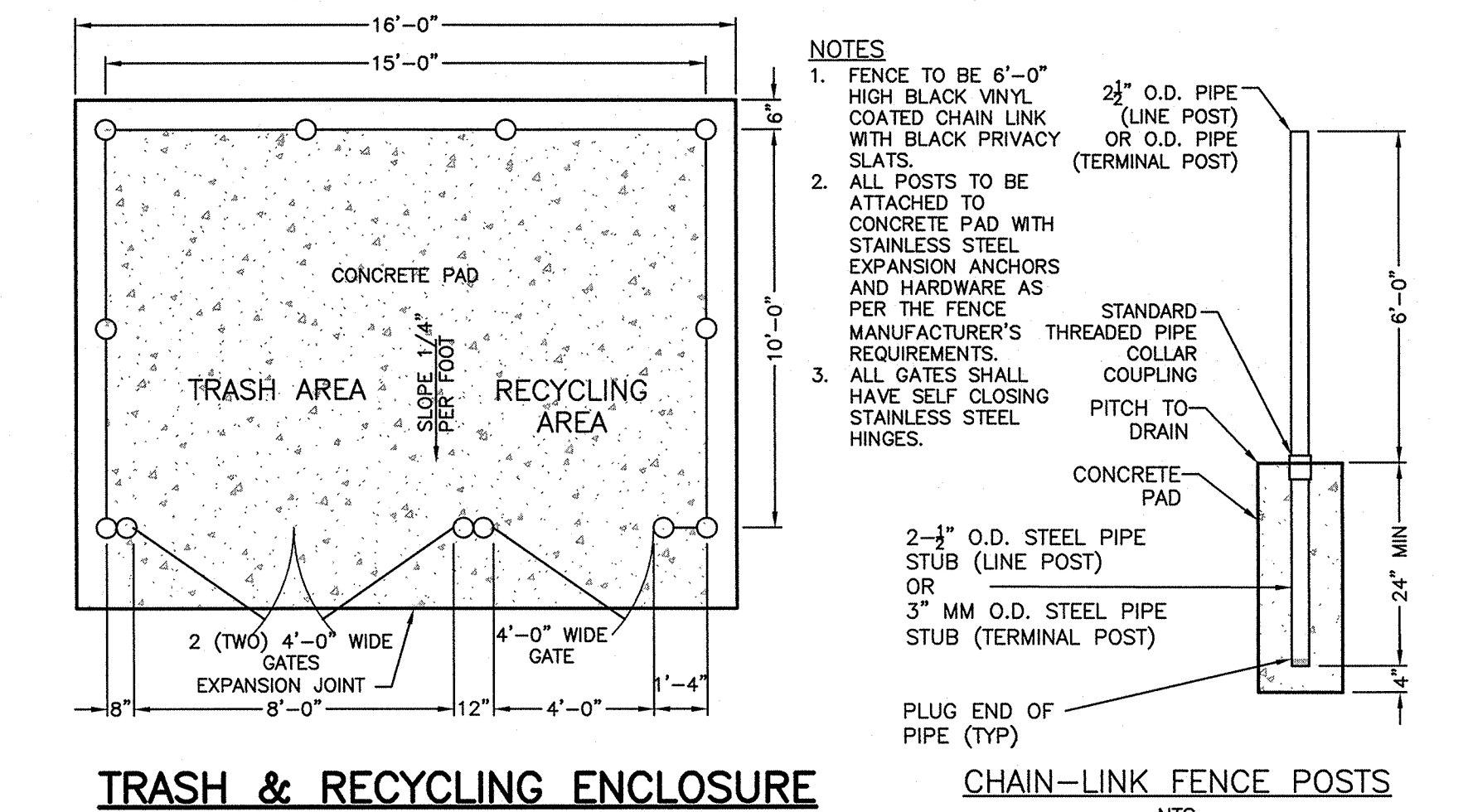
GRAPHIC SCALE

0 30 60 Feet

SCALE: 1" = 30'

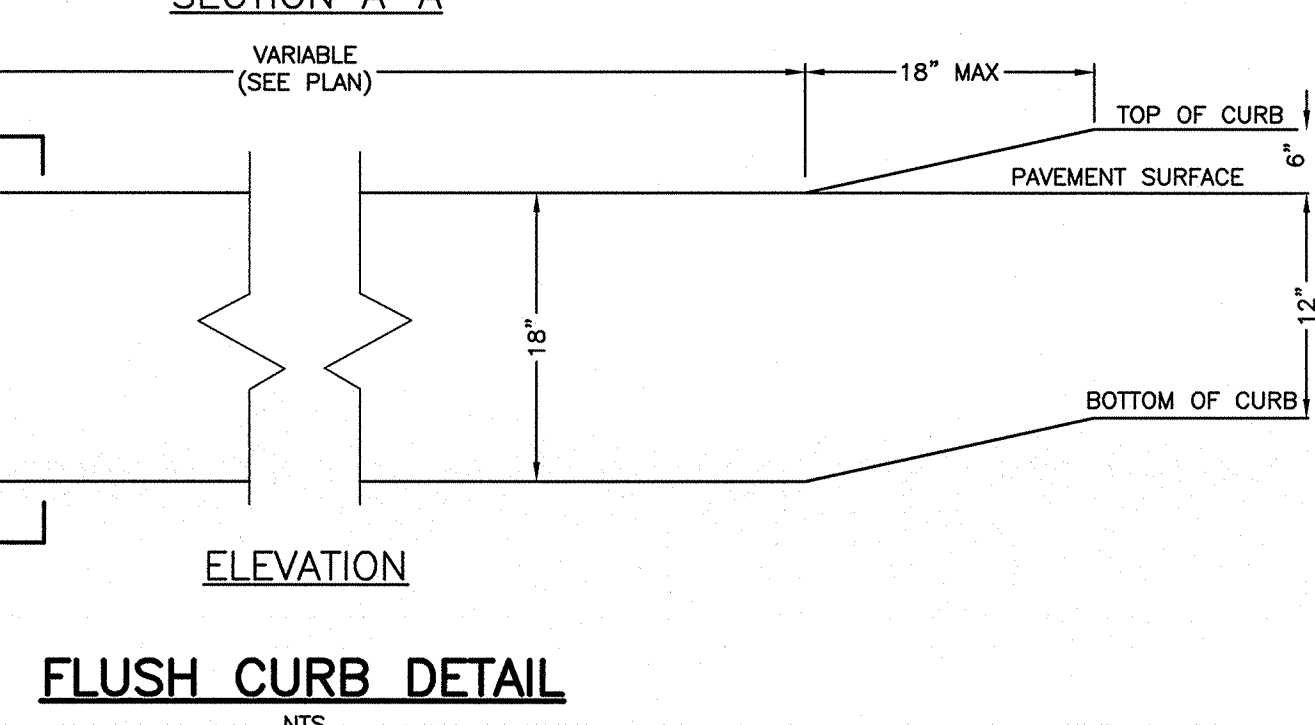
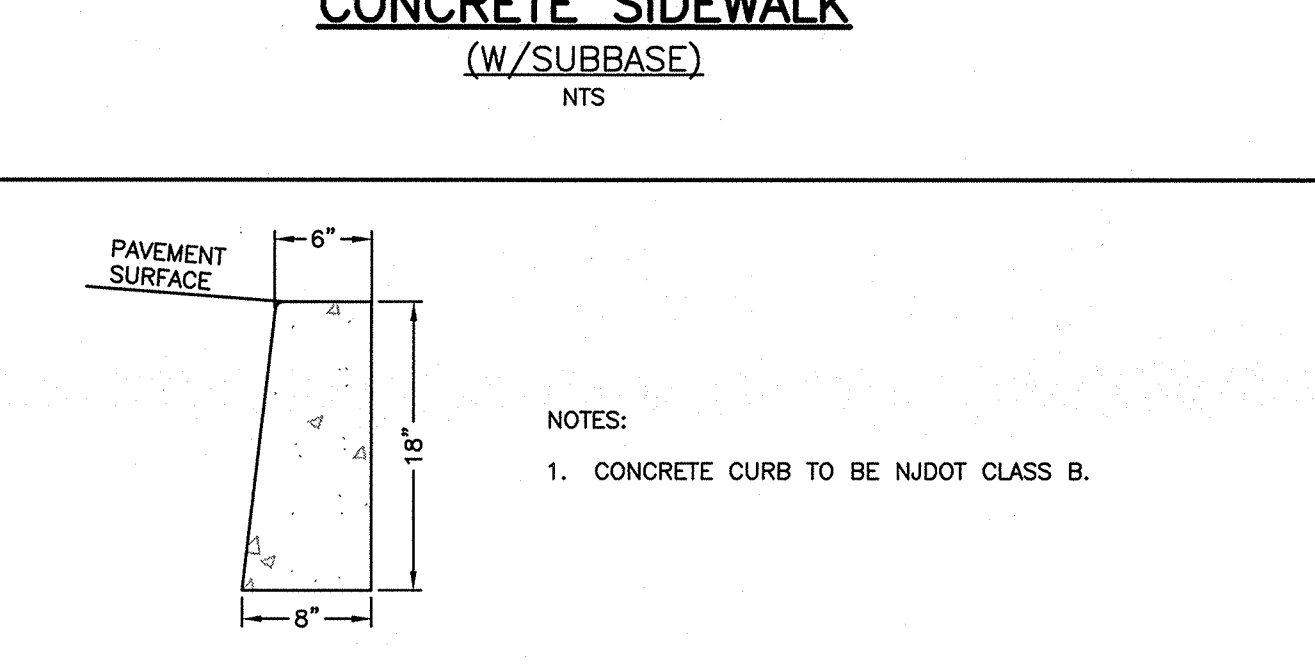
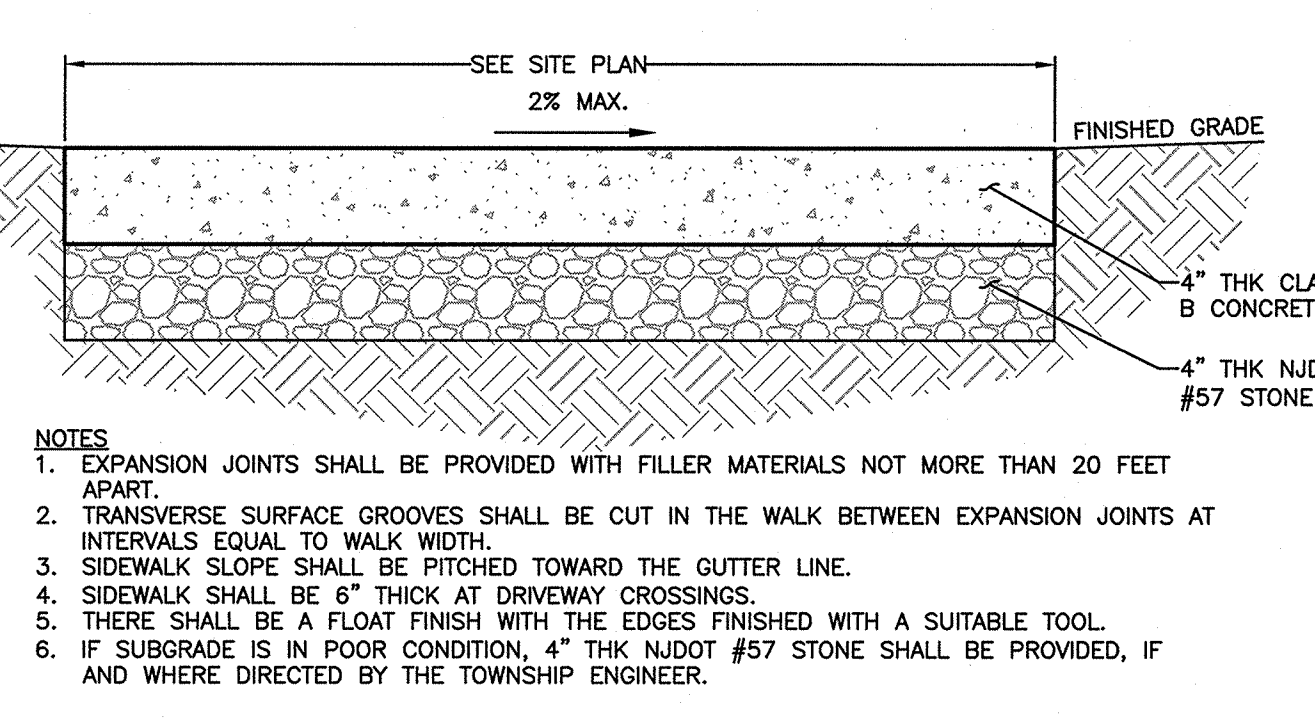
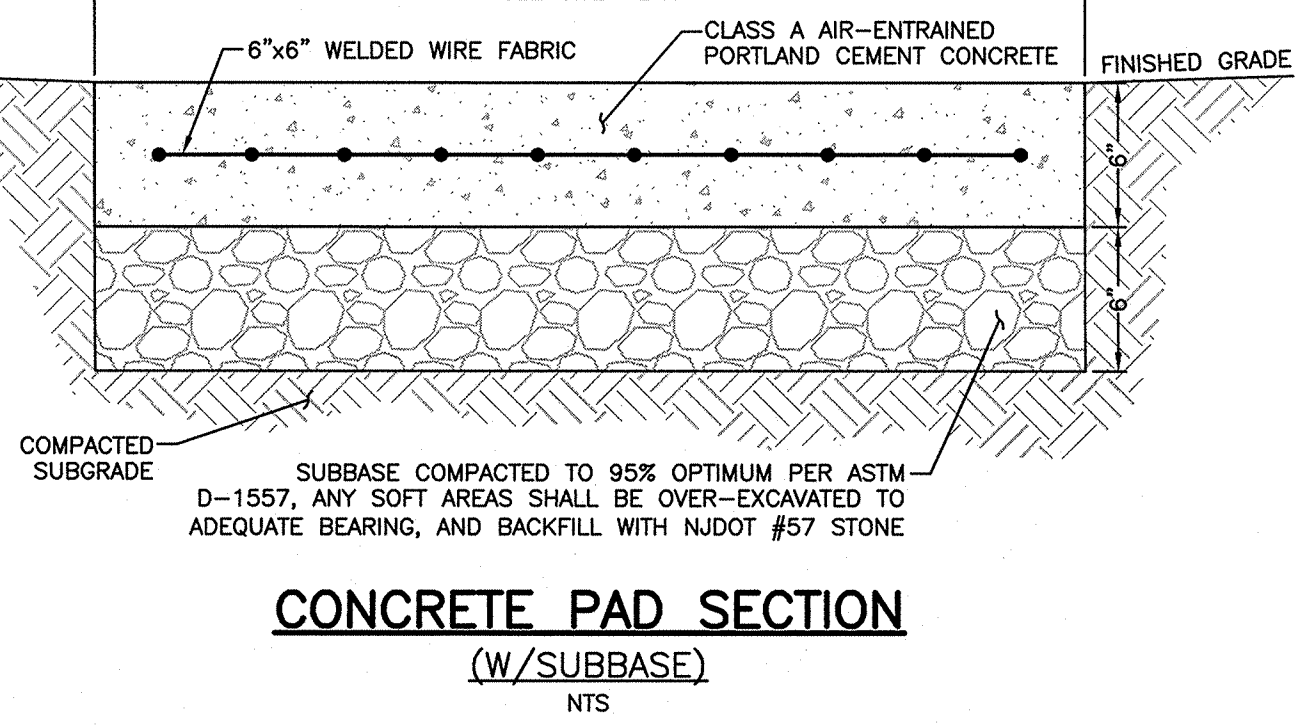
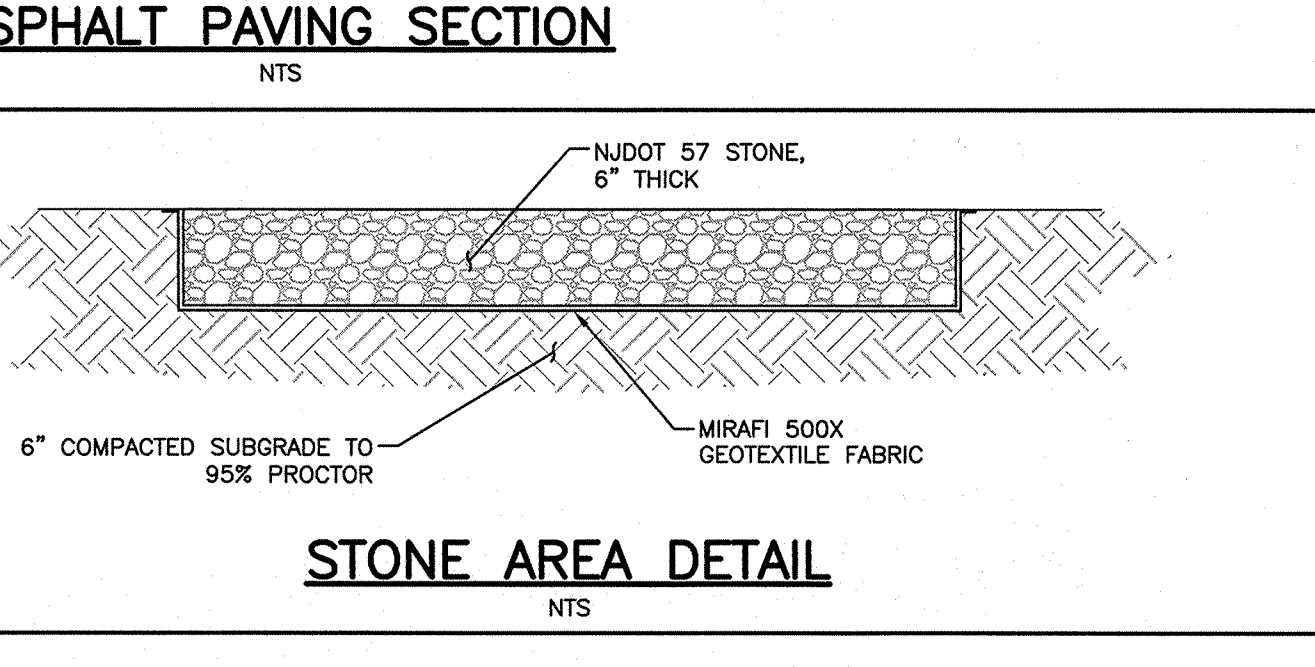
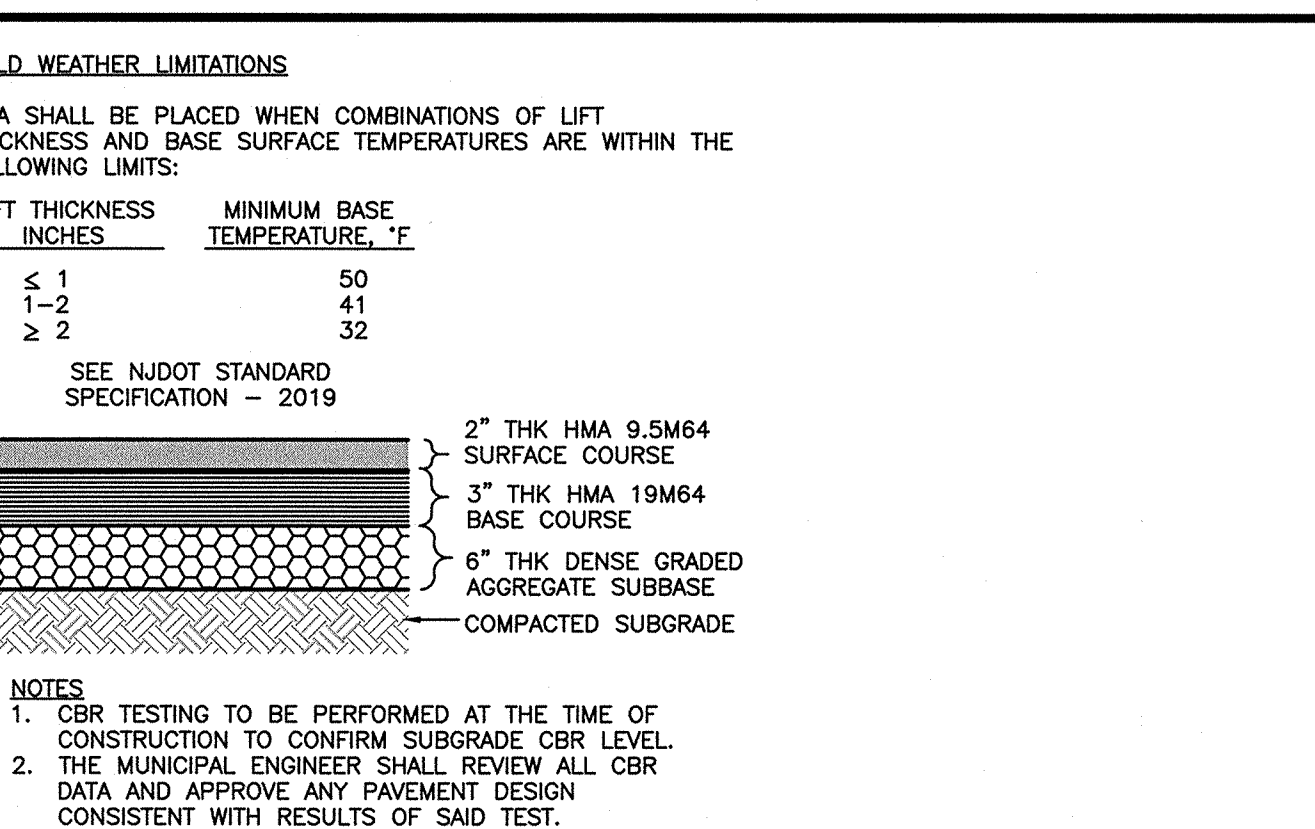
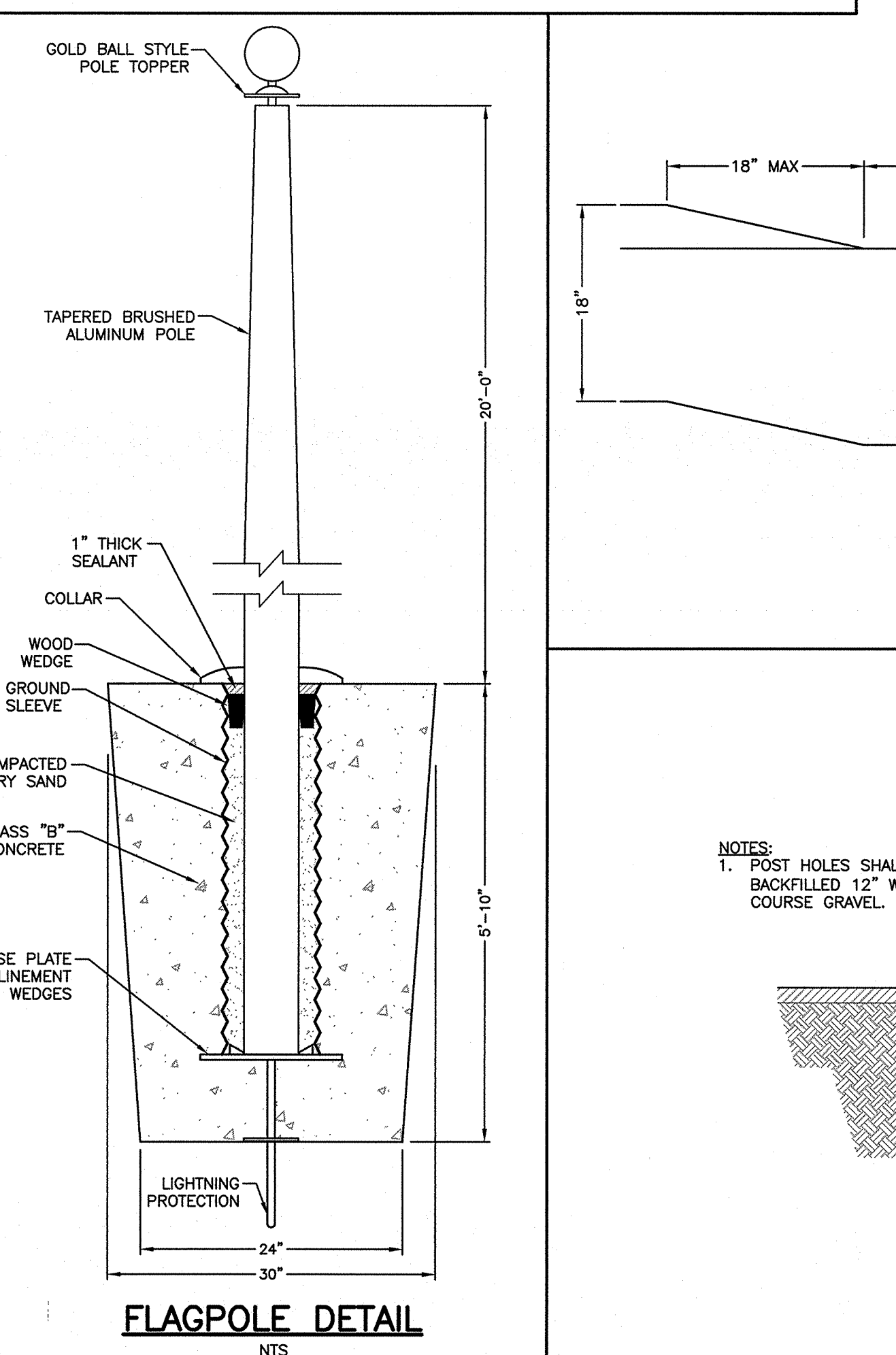
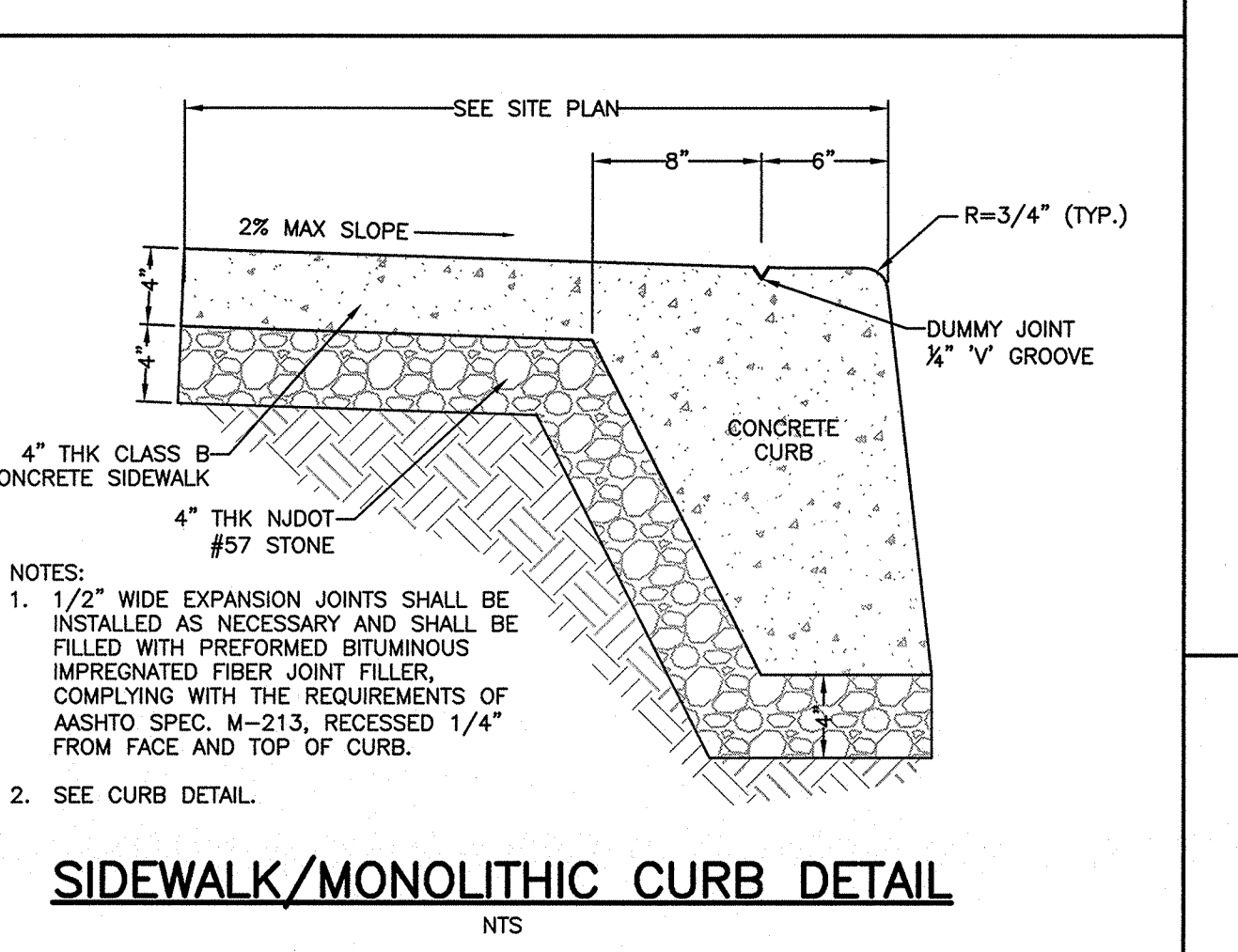
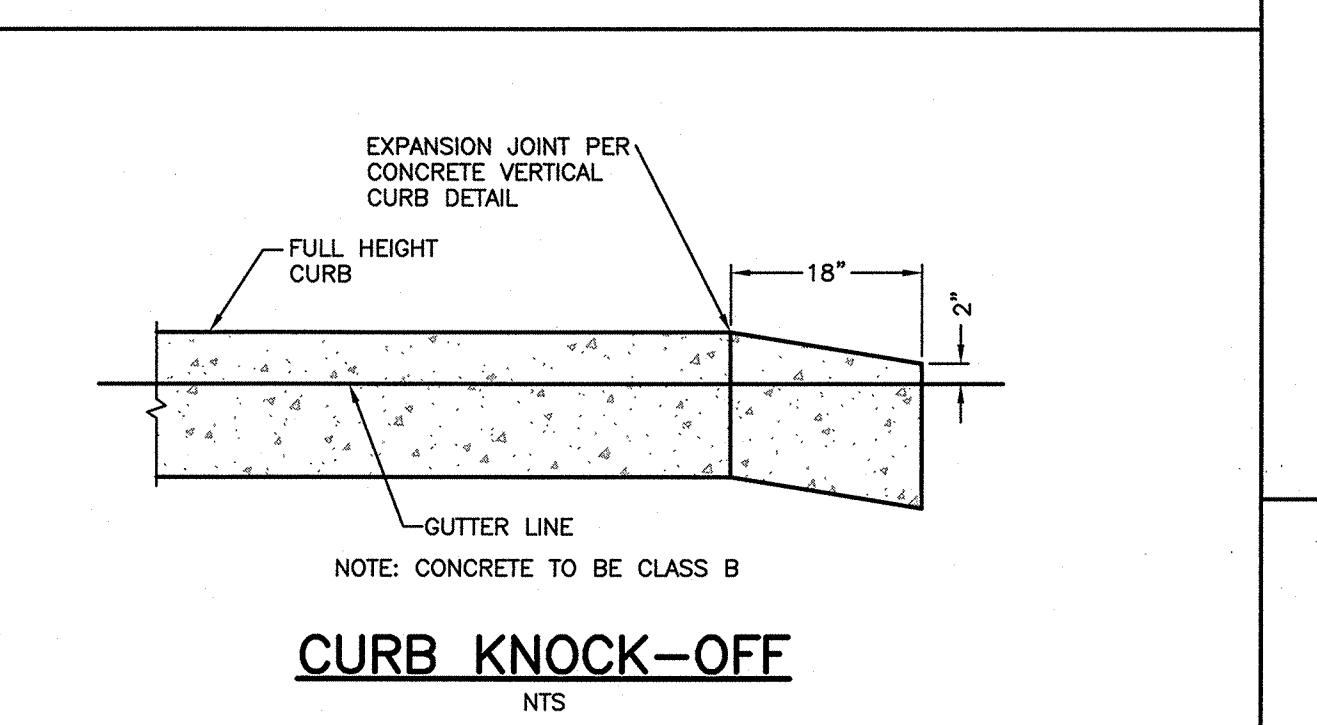
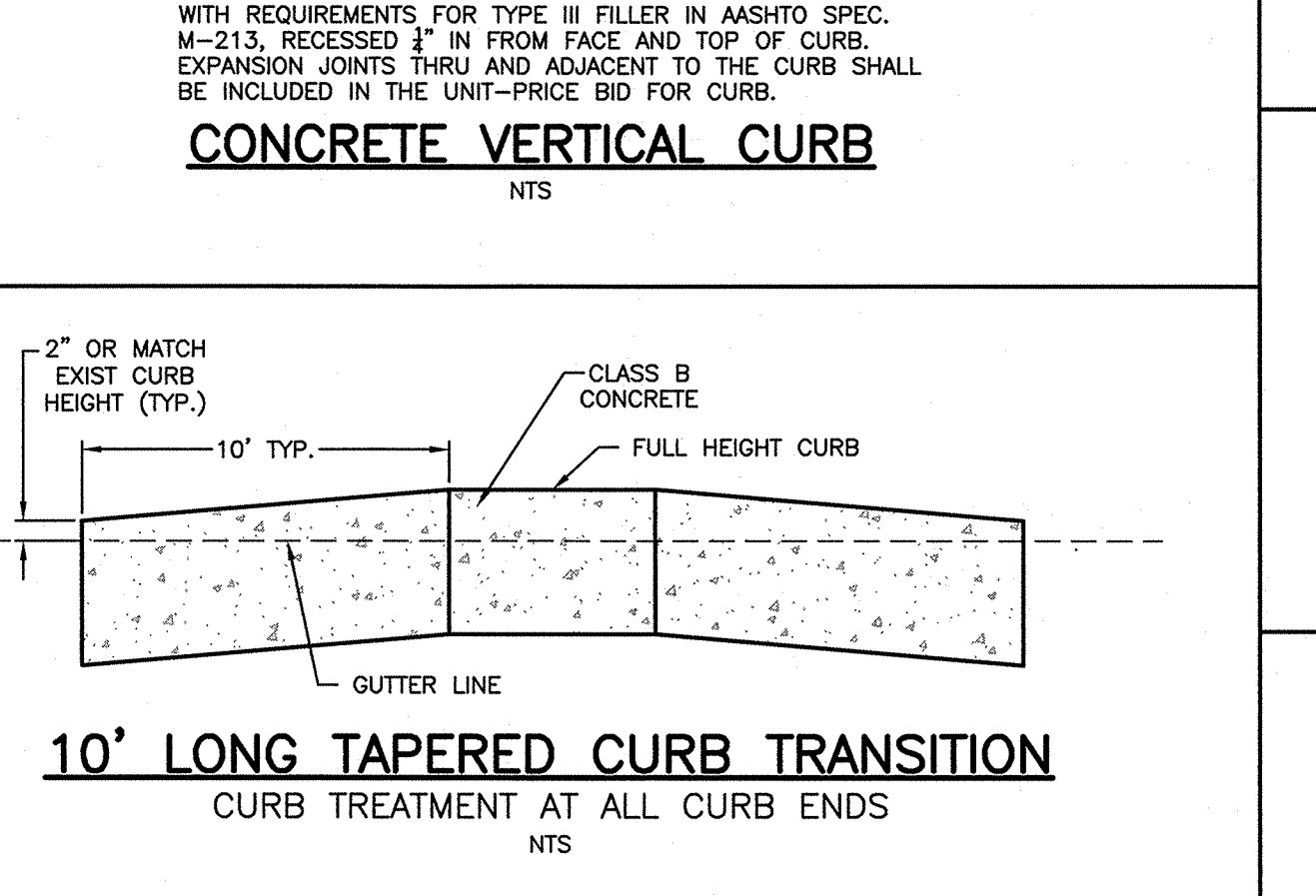
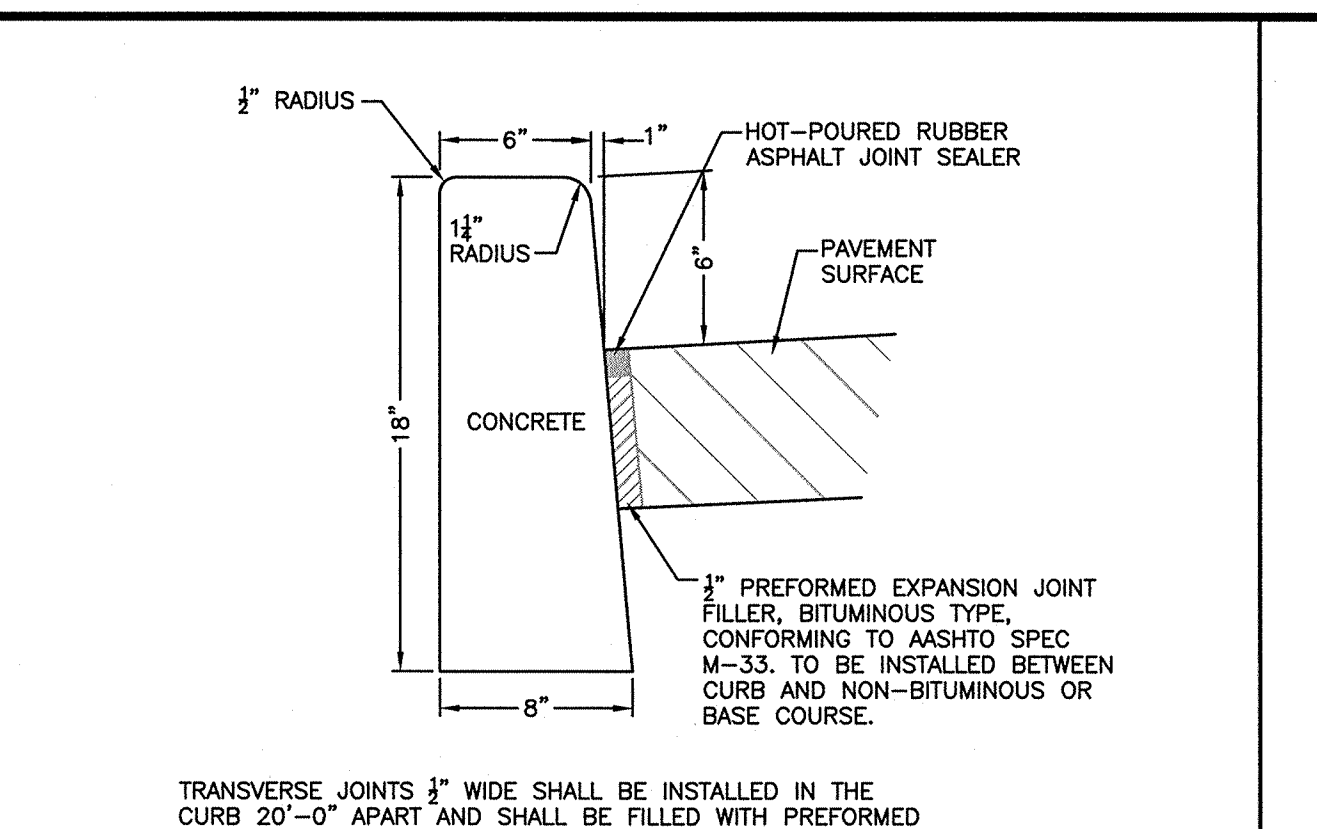
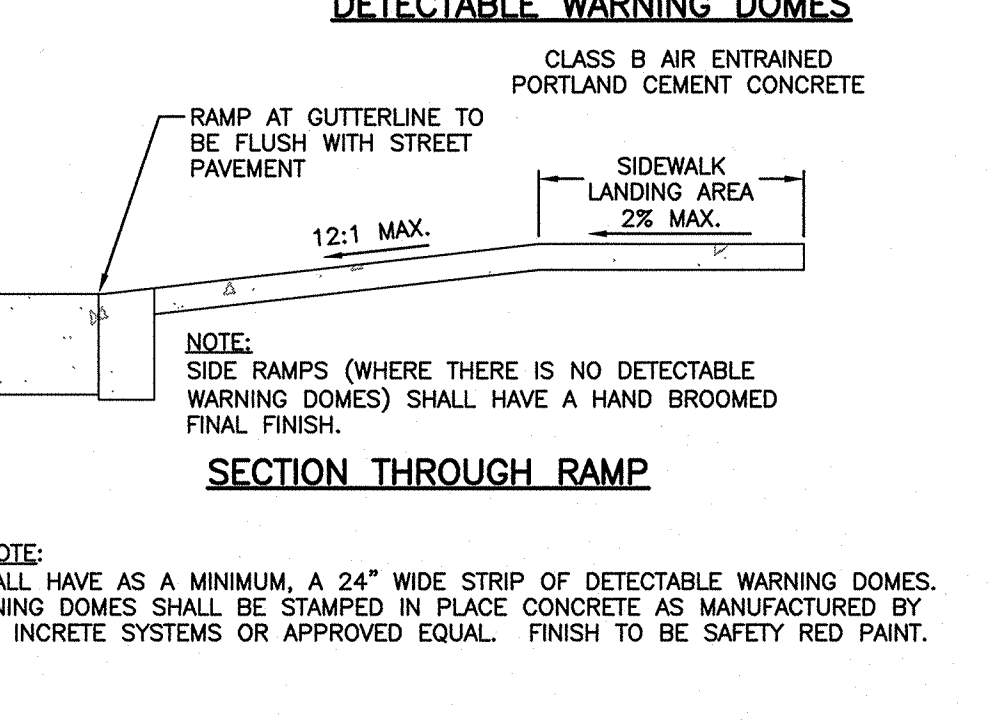
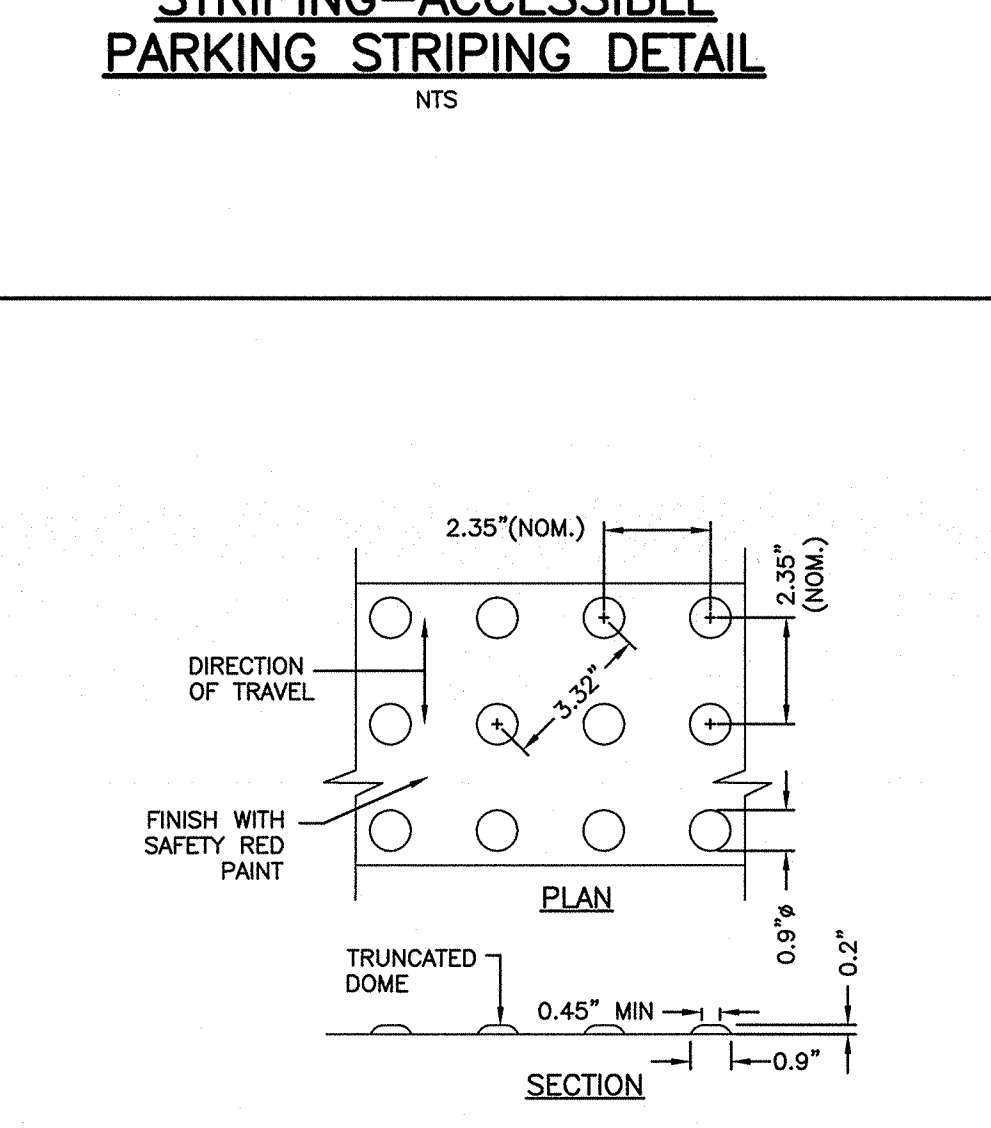
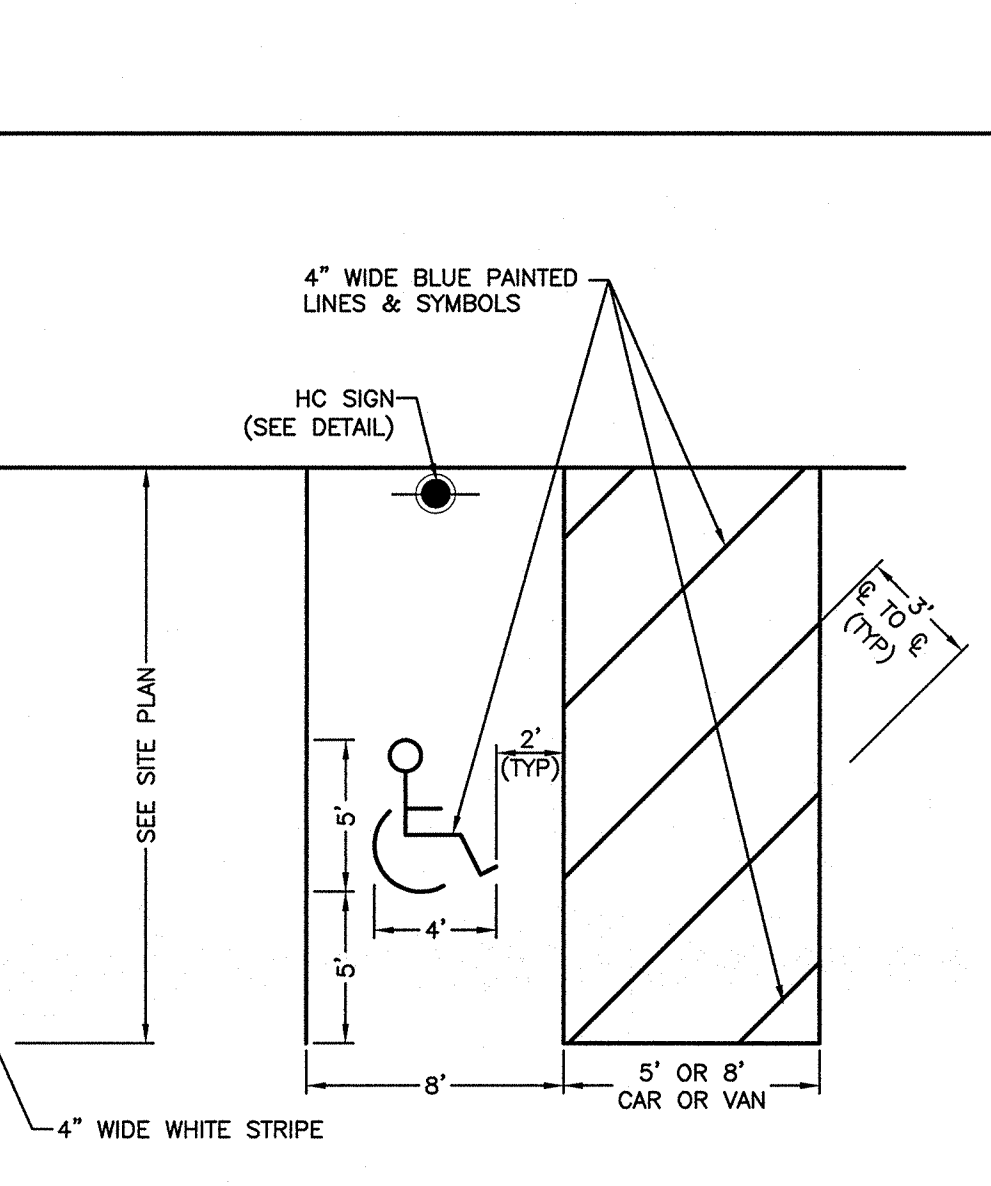
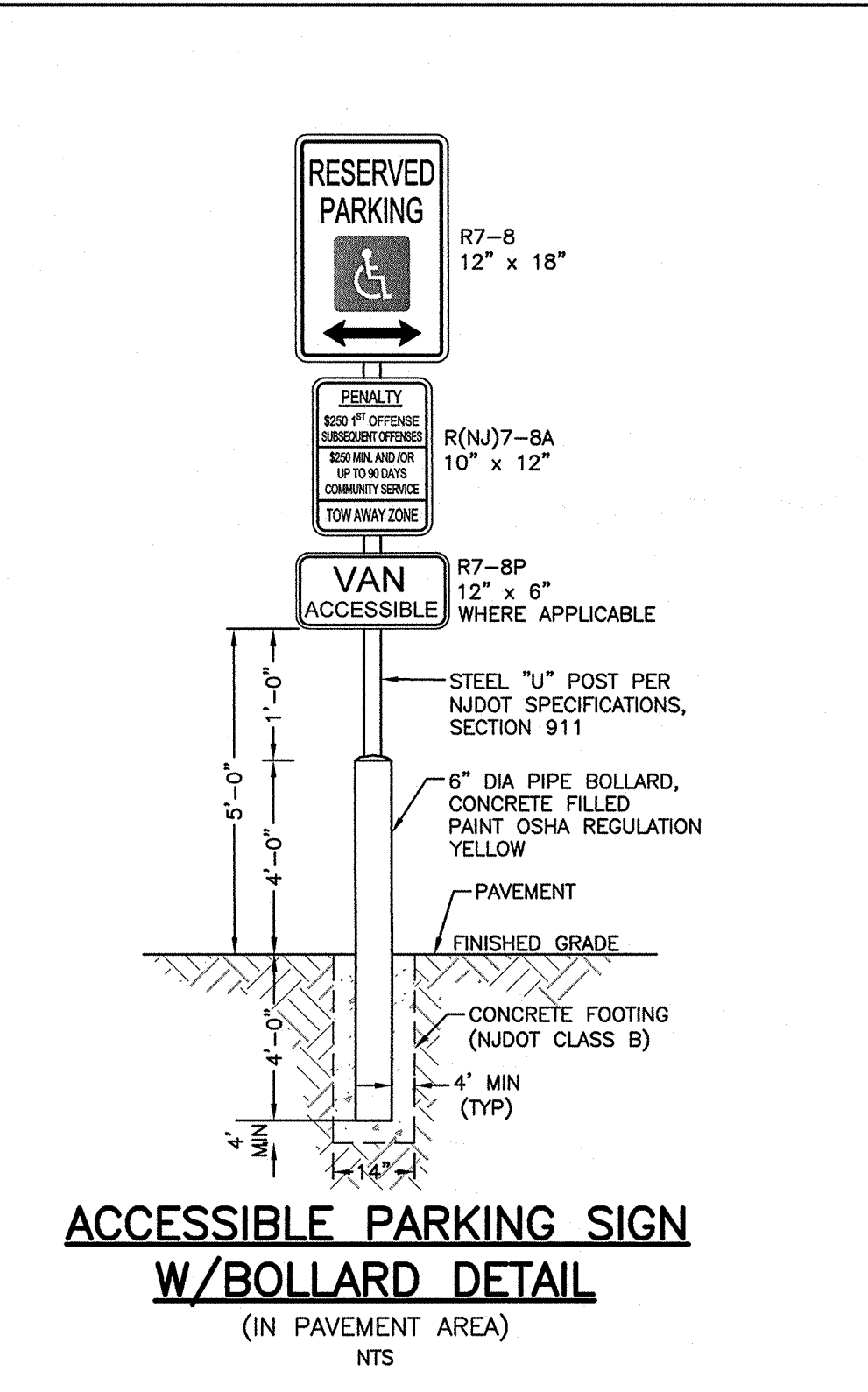
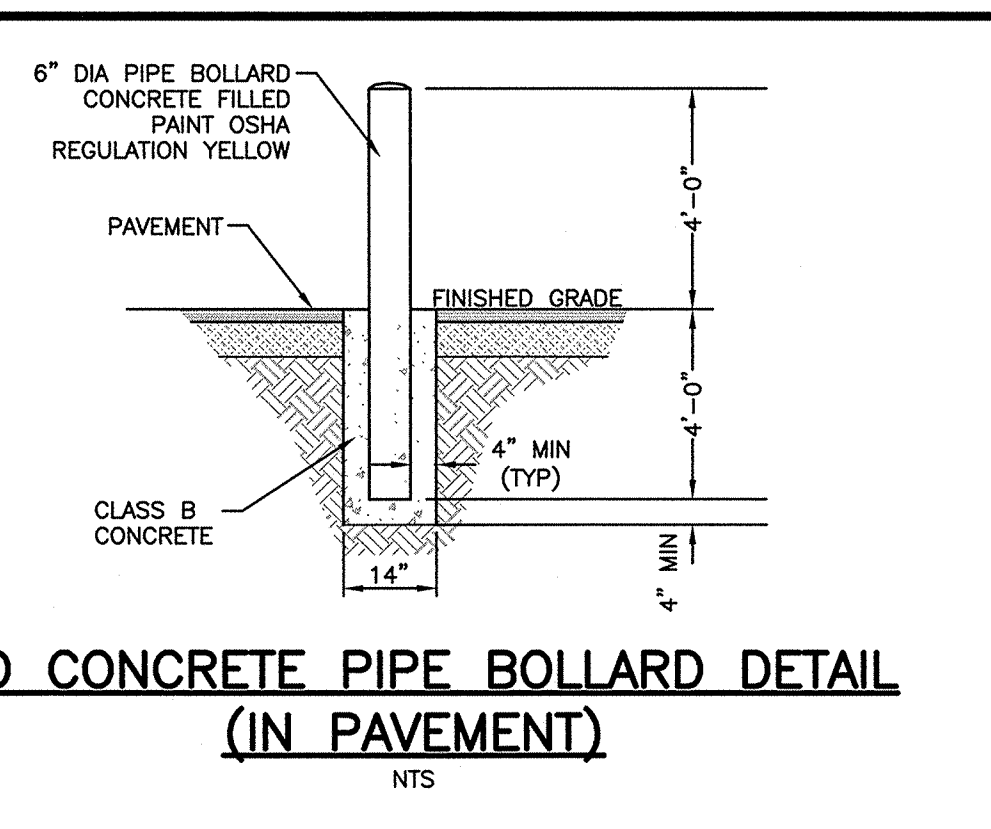
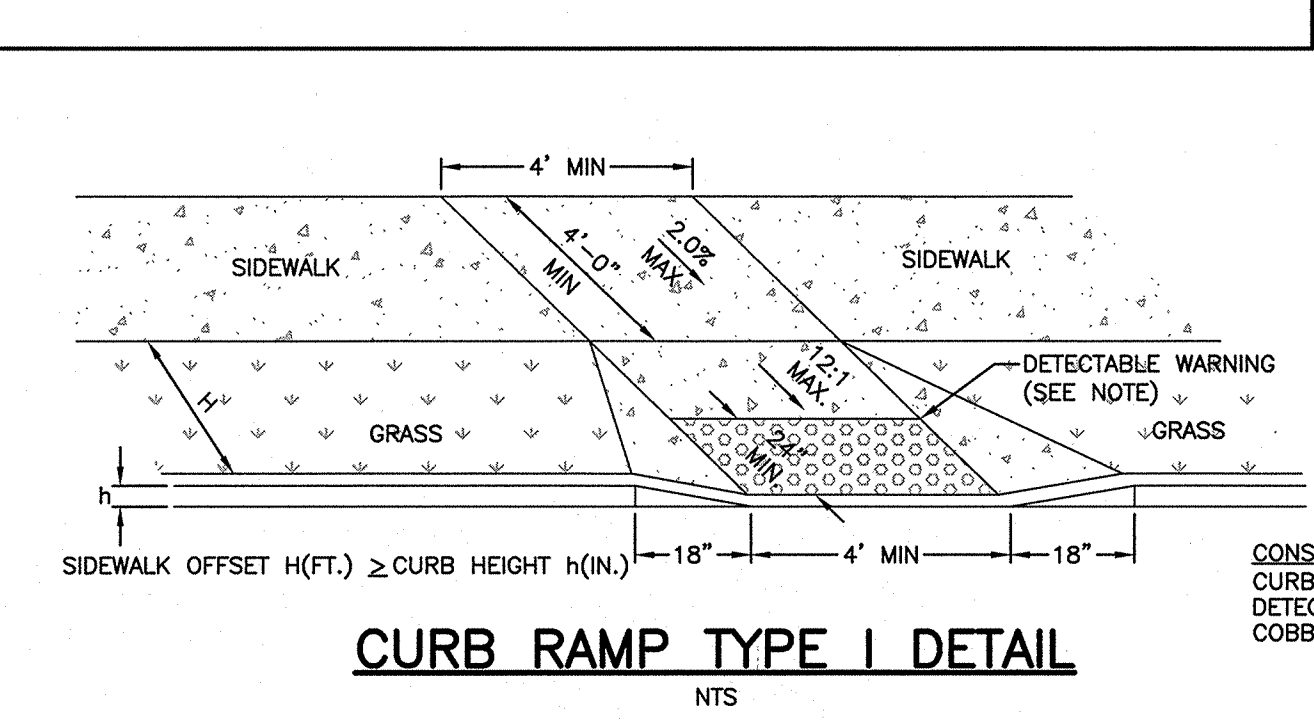
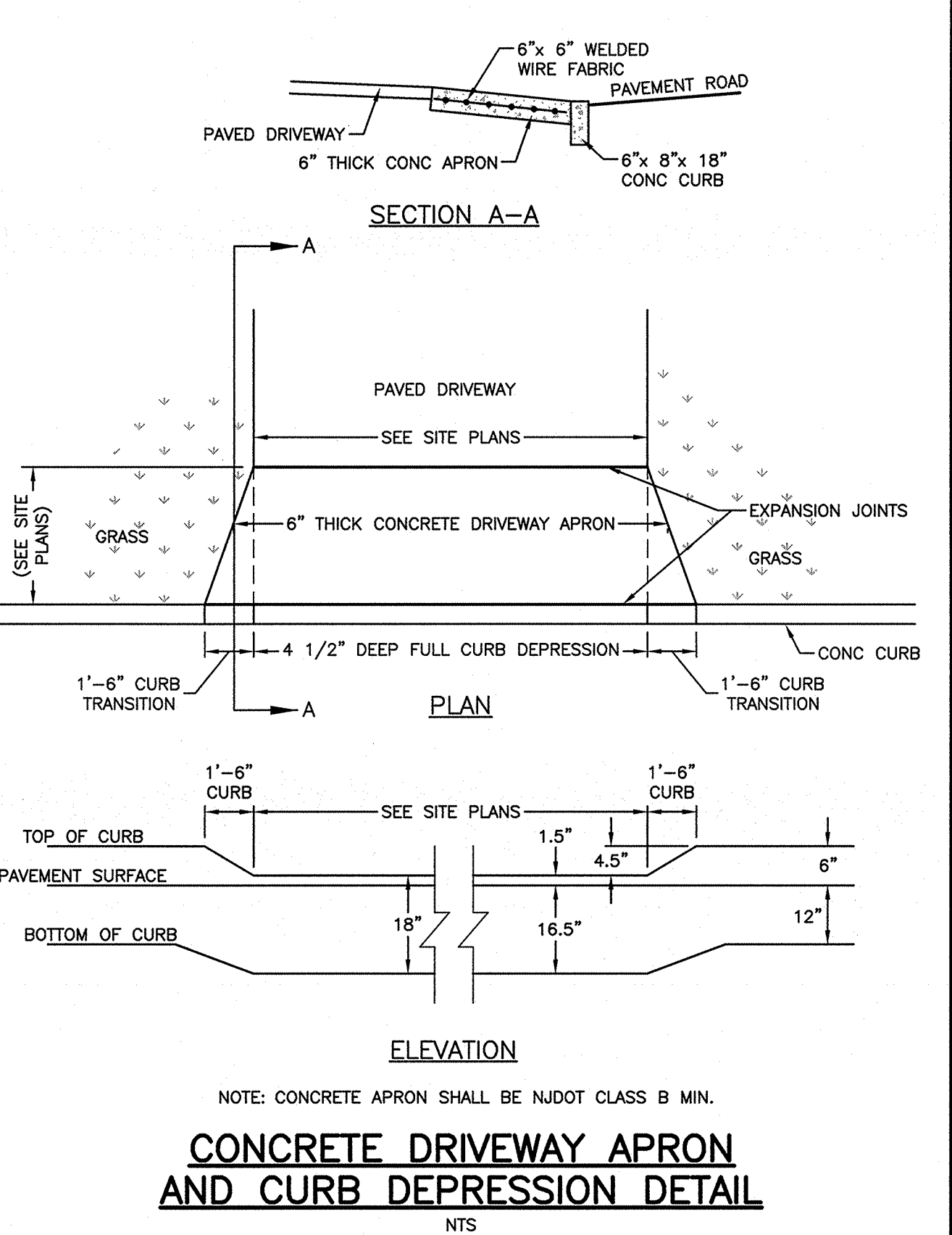
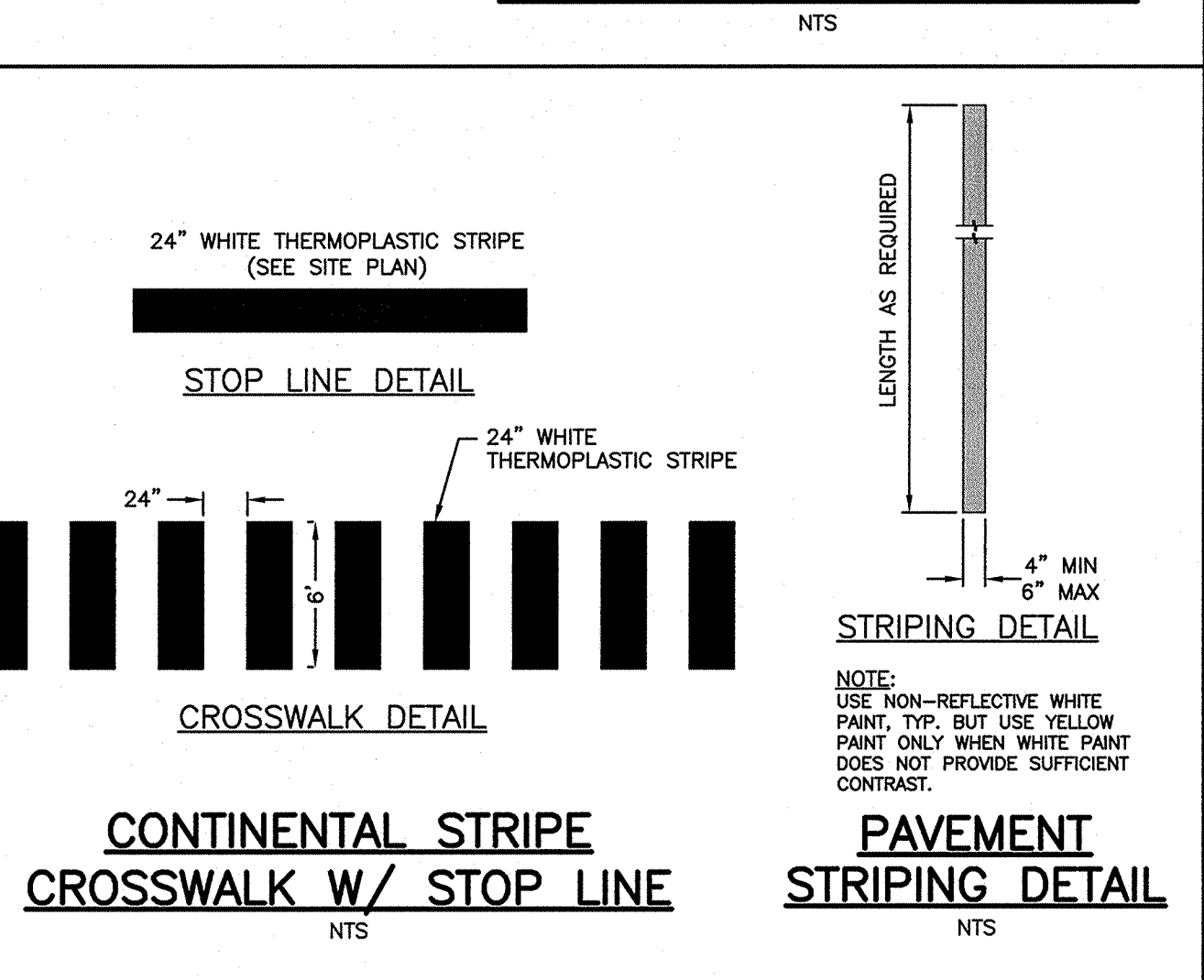
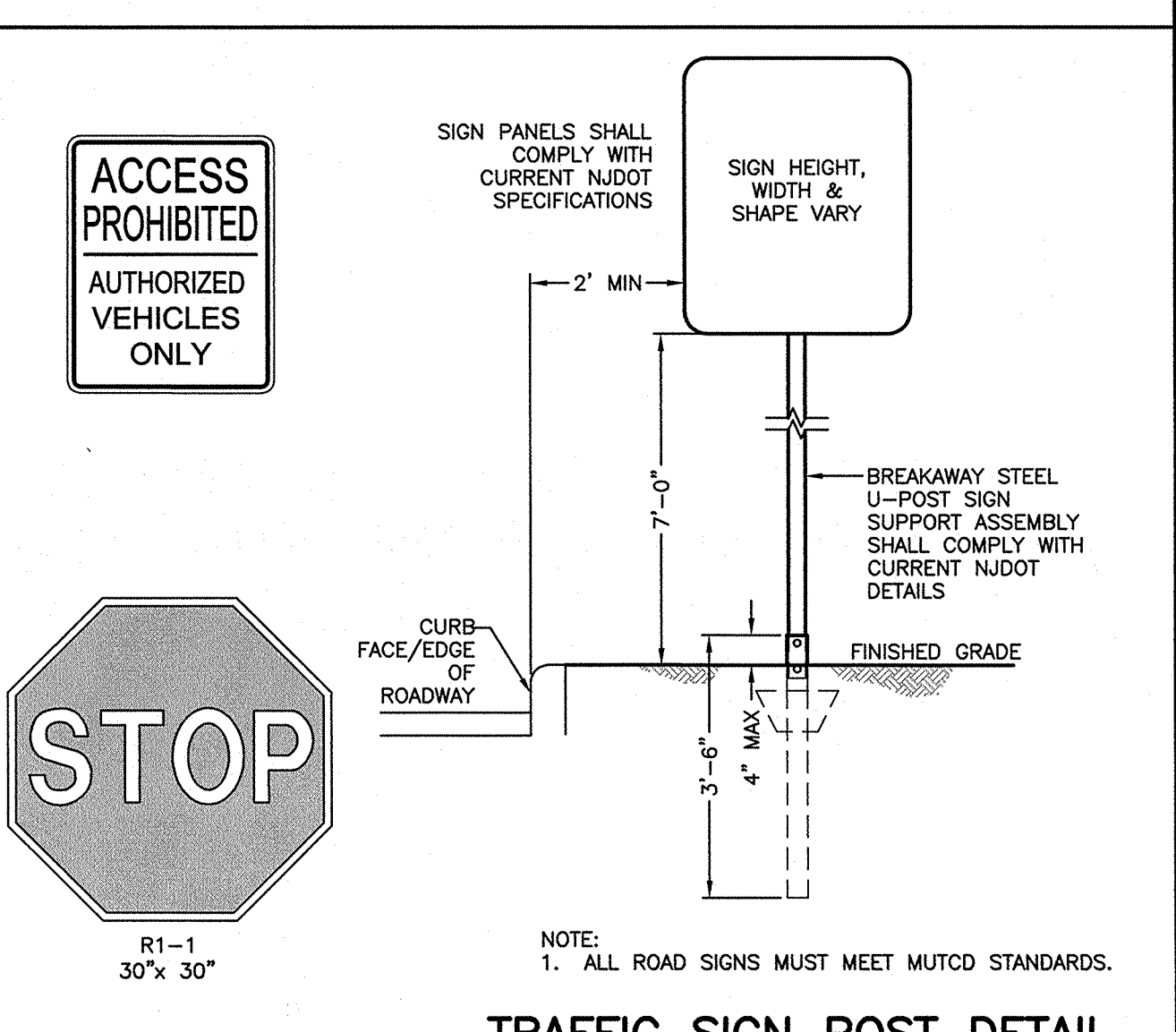
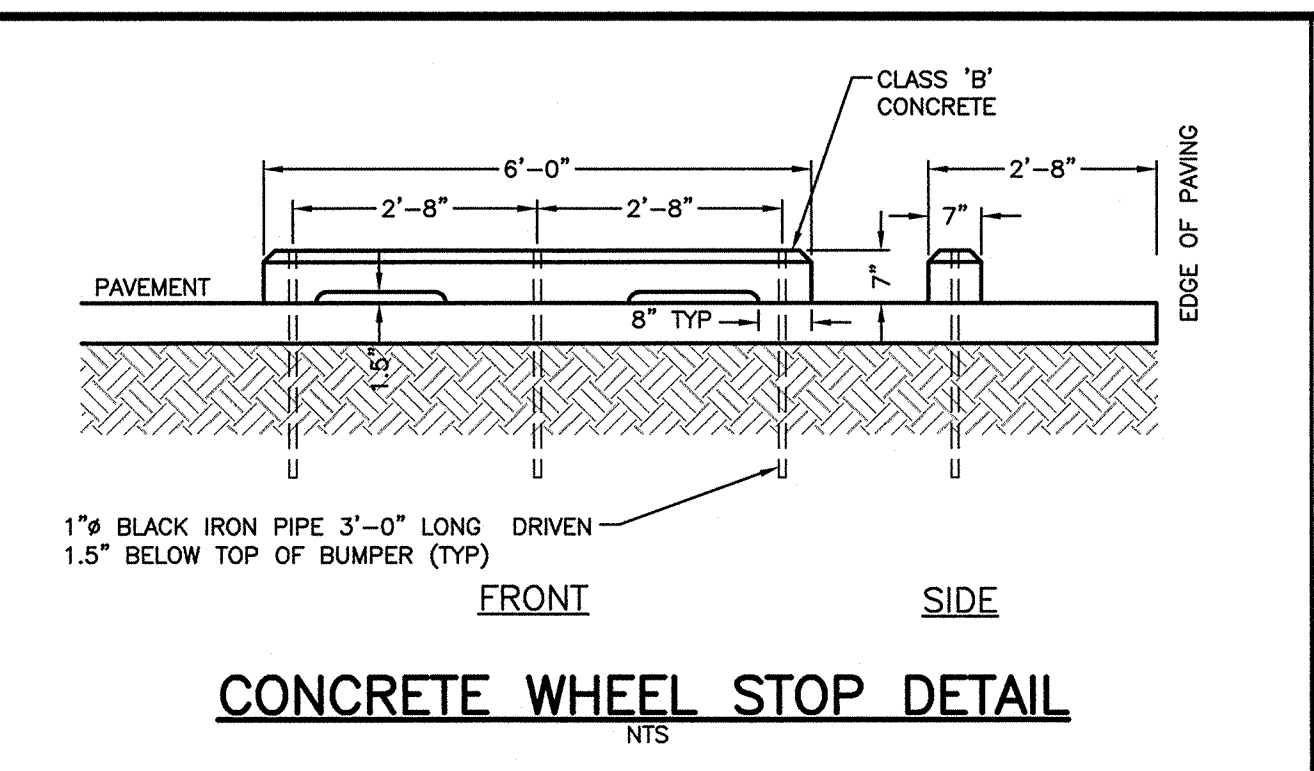
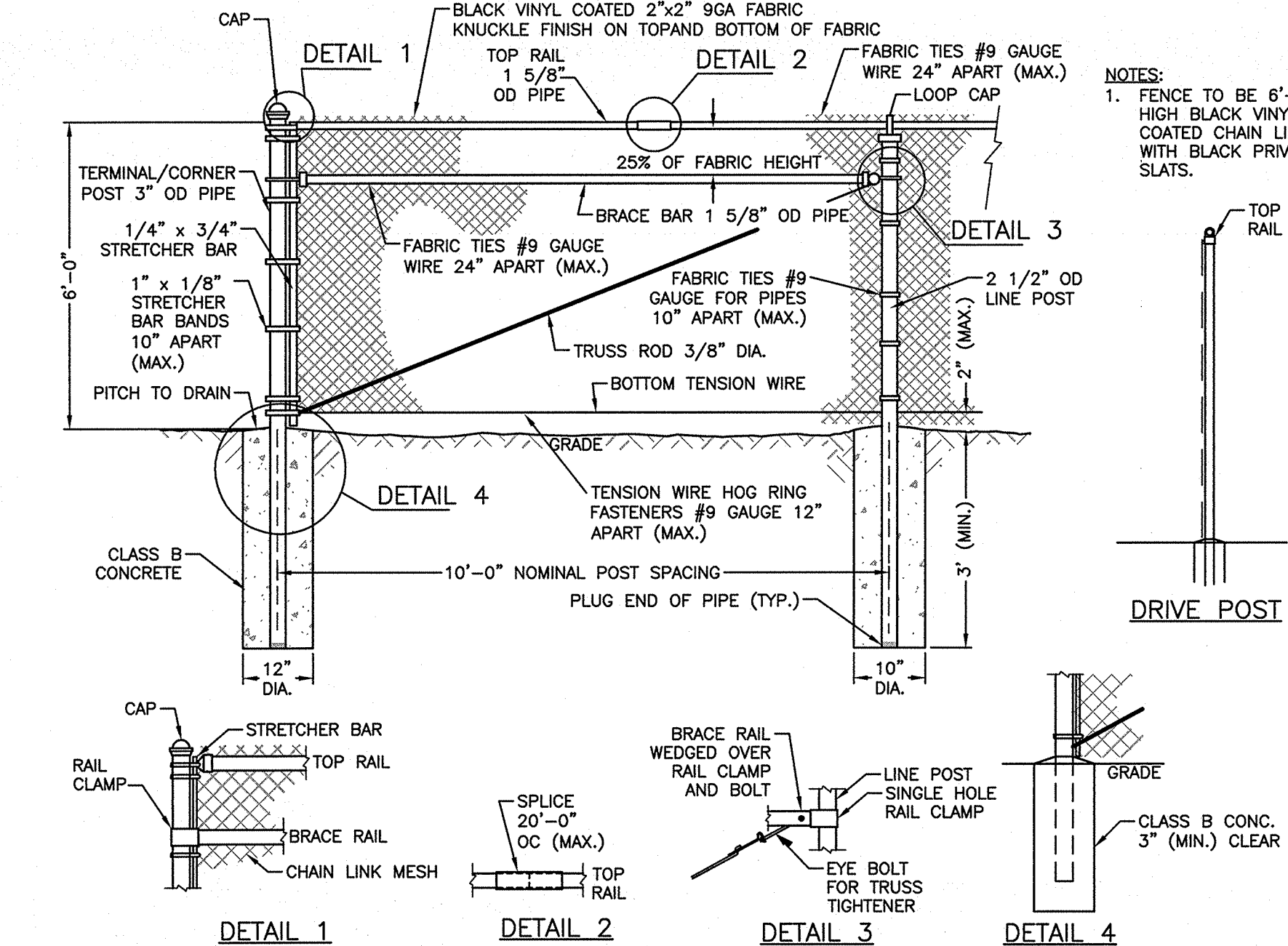


TRASH ENCLOSURE CONCRETE PAD DETAIL
NTS



MARK	DESCRIPTION	FORMULA	DIM
A	CLEAR OPENING	A	
B	COUNTERBALANCE POST SPACING C/C	(A/2) - 11"	
C	OVERALL GATE LENGTH	A x 1.5	
D	COUNTERBALANCE LENGTH	A x 0.5	
E	NOMINAL GATE HEIGHT	E	
F	POST HEIGHT (W BARB ARMS)	E + 1'-6"	
G	FABRIC HEIGHT	E - 1'-0"	

SLIDING GATE DETAIL
NTS

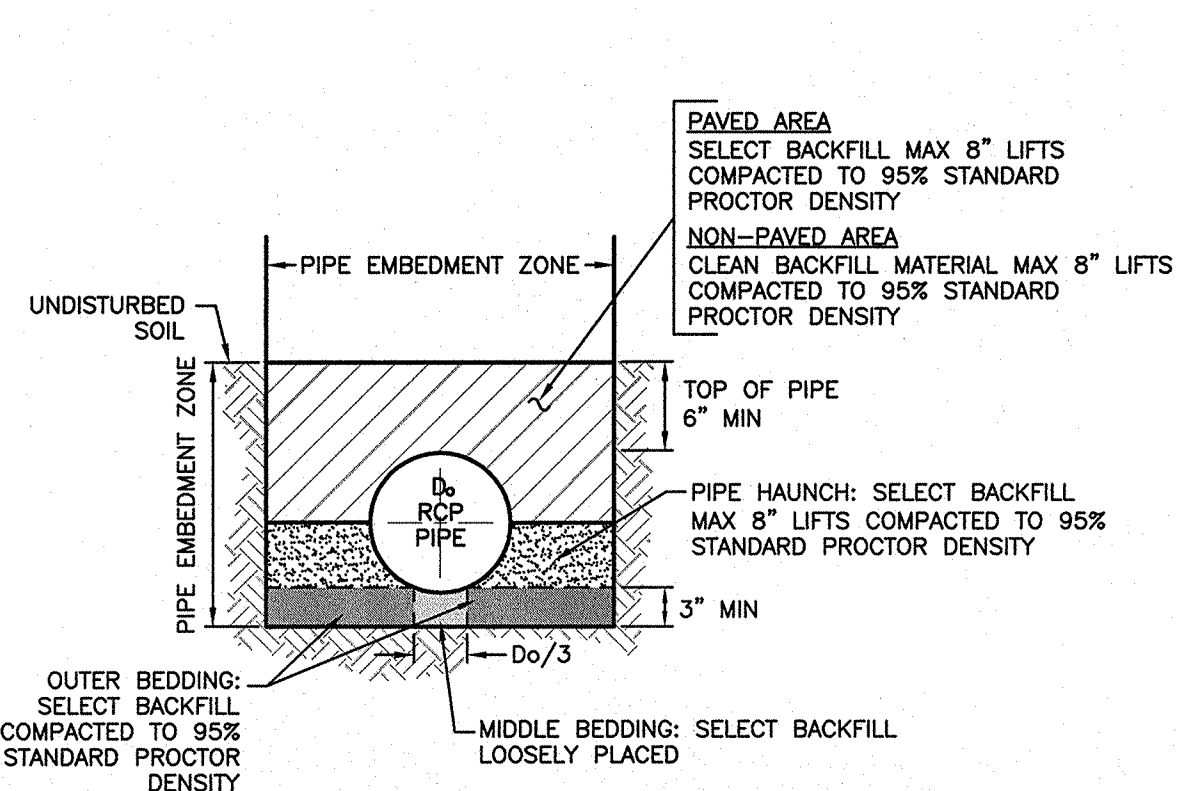




	A	B	C	D	E	F	G	I
BASIN	TOP OF BASIN ELEV	BOTTOM OF BASIN ELEV	BOTTOM OF SAND LAYER ELEV	SHWT ELEV	WQ W.S.E.	2 YR. W.S.E.	10 YR. W.S.E.	100 YR. W.S.E.
A CURRENT	27.50	24.50	24.00	18.30	24.56	24.63	24.90	25.60
A FUTURE	27.50	24.50	24.00	18.30	24.56	24.70	25.06	26.42
B CURRENT	29.50	26.00	25.50	16.70	26.00	26.00	26.00	26.62
B FUTURE	29.50	26.00	25.50	16.70	26.00	26.00	26.01	27.76
C CURRENT	30.91	28.00	27.50	18.30	28.15	28.21	28.46	29.04
C FUTURE	30.91	28.00	27.50	18.30	28.15	28.28	28.59	29.65

BASIN EXCAVATION/CONSTRUCTION NOTES:

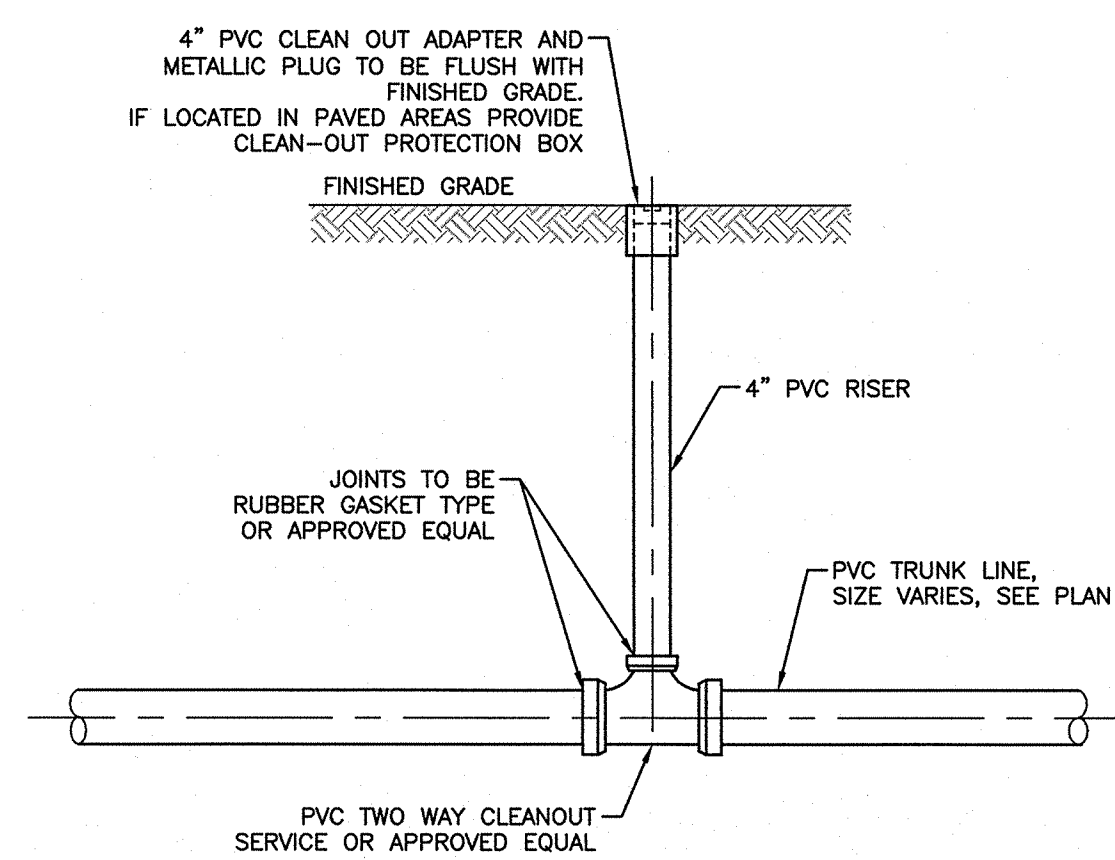
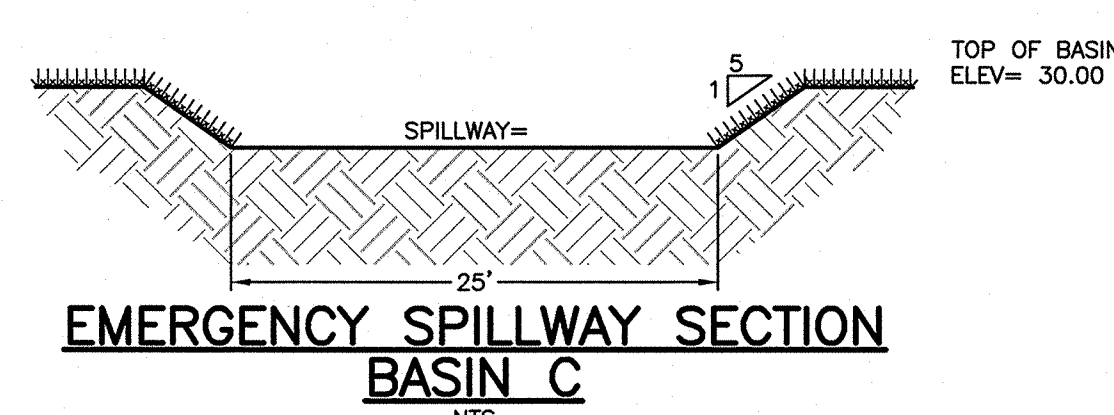
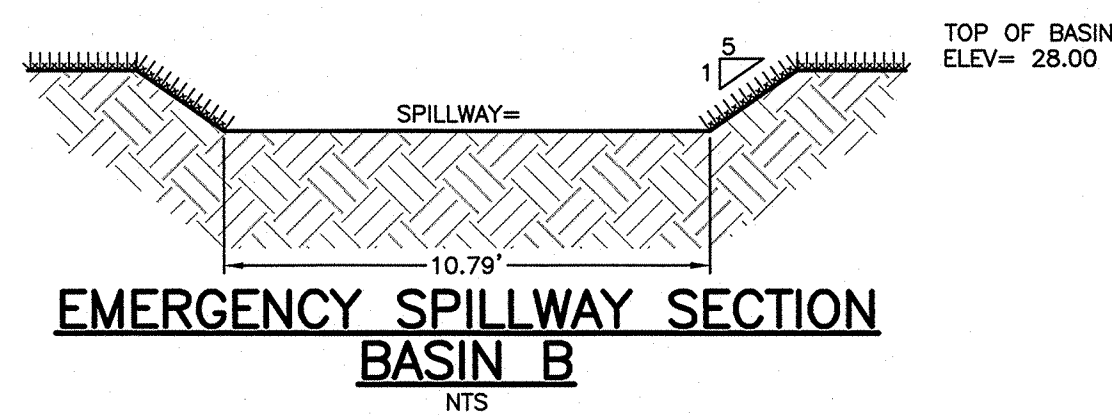
1. DURING THE EXCAVATION OF THE BASIN A NJ LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER MUST WITNESS AND CERTIFY THAT ALL EXCAVATION OPERATION WERE COMPLETED IN COMPLIANCE WITH THE PLANS.
2. A POST EXCAVATION PERCOLATION TEST MUST BE PERFORMED TO CONFIRM THE DESIGN INFILTRATION RATE OF K=4 (6-20 in/HR) AND CERTIFIED BY A NJ LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER. SOL BELOW THE BASIN MUST BE REPLACED AS GRANTED BY A NJ LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER. THE DESIGN INFILTRATION RATE OF K=4 (6 to 20 in/HR).
3. IF ANY CLAY/SILT AND/OR RESTRICTIVE LAYERS ARE ENCOUNTERED DURING THE BASIN EXCAVATION OPERATION CES MUST BE NOTIFIED AT THE INITIAL TIME OF EXCAVATION OPERATION, AT THE DIRECTION OF A NJ LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER ALL CLAY/SILT AND RESTRICTIVE LAYERS ENCOUNTERED UNDER THE BASIN SHALL BE REMOVED AND REPLACED TO OBTAIN THE INFILTRATION RATE OF K=4, 6-20 in/HR. THE INFILTRATION TEST SHALL BE DESIGNED TO ACHIEVE THE INFILTRATION RATE OF 6 TO 20 in/HR.
4. ALL CERTIFICATIONS FOR BASIN CONSTRUCTION/EXCAVATION AND POST EXCAVATION PERCOLATION TEST MUST BE SUBMITTED TO CES IMMEDIATELY AFTER INITIAL BASIN EXCAVATION IS COMPLETE.
5. INSTALL SAND LAYER ONLY AFTER ALL PROJECT CONSTRUCTION IS COMPLETED AND PROJECT SITE IS STABILIZED.



- NOTES:
1. BACKFILL AND BEDDING STANDARDS SHALL CONFIRM TO THE LATEST VERSION OF THE AMERICAN CONCRETE PIPE ASSOCIATION DESIGN MANUAL.
 2. SELECT BACKFILL SHALL BE ON-SITE GRANULAR SOIL, NJDOT CLASS C BEDDING AND FREE FROM ORGANIC MATTER.
 3. D_0 = OUTSIDE PIPE DIAMETER.

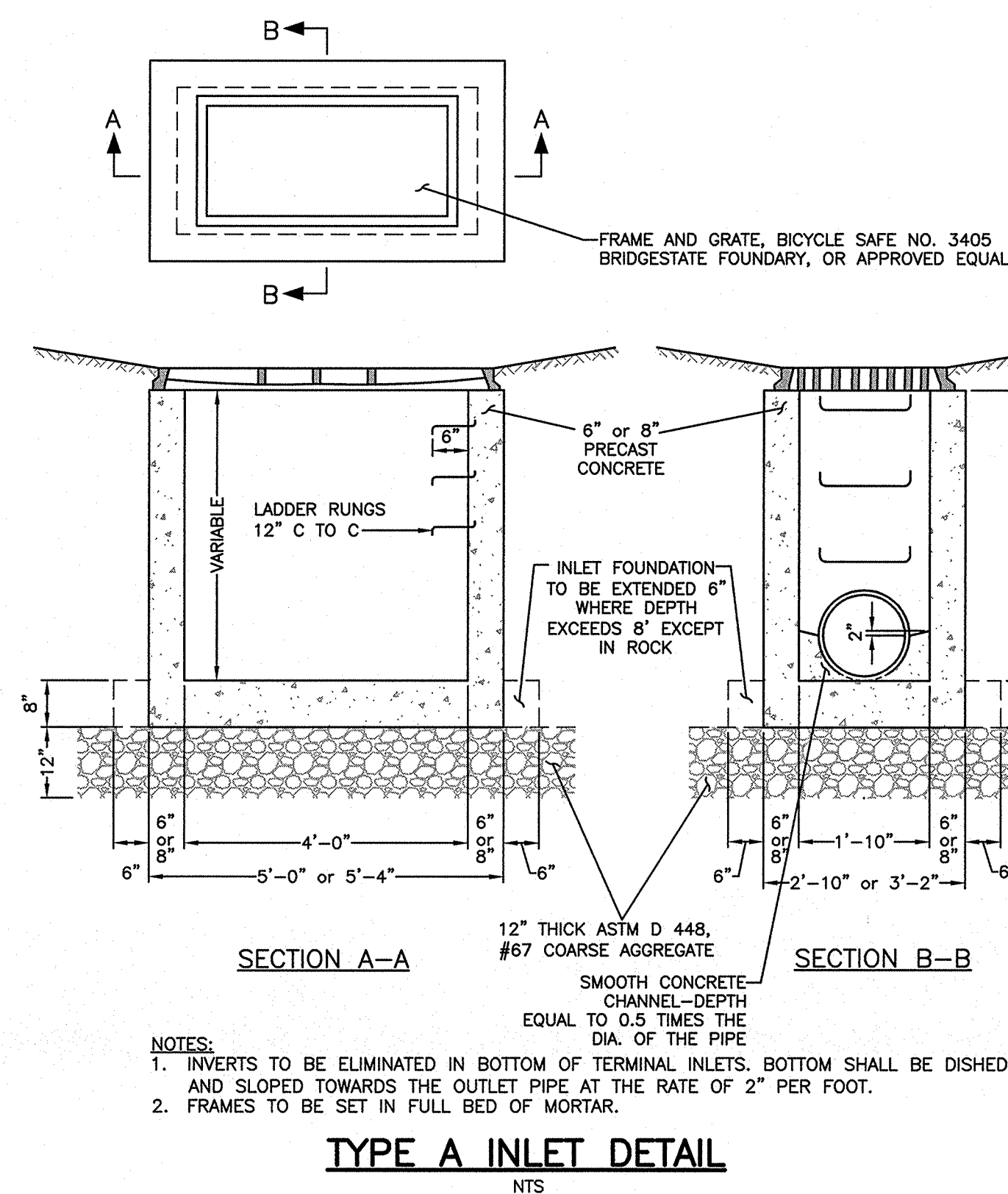
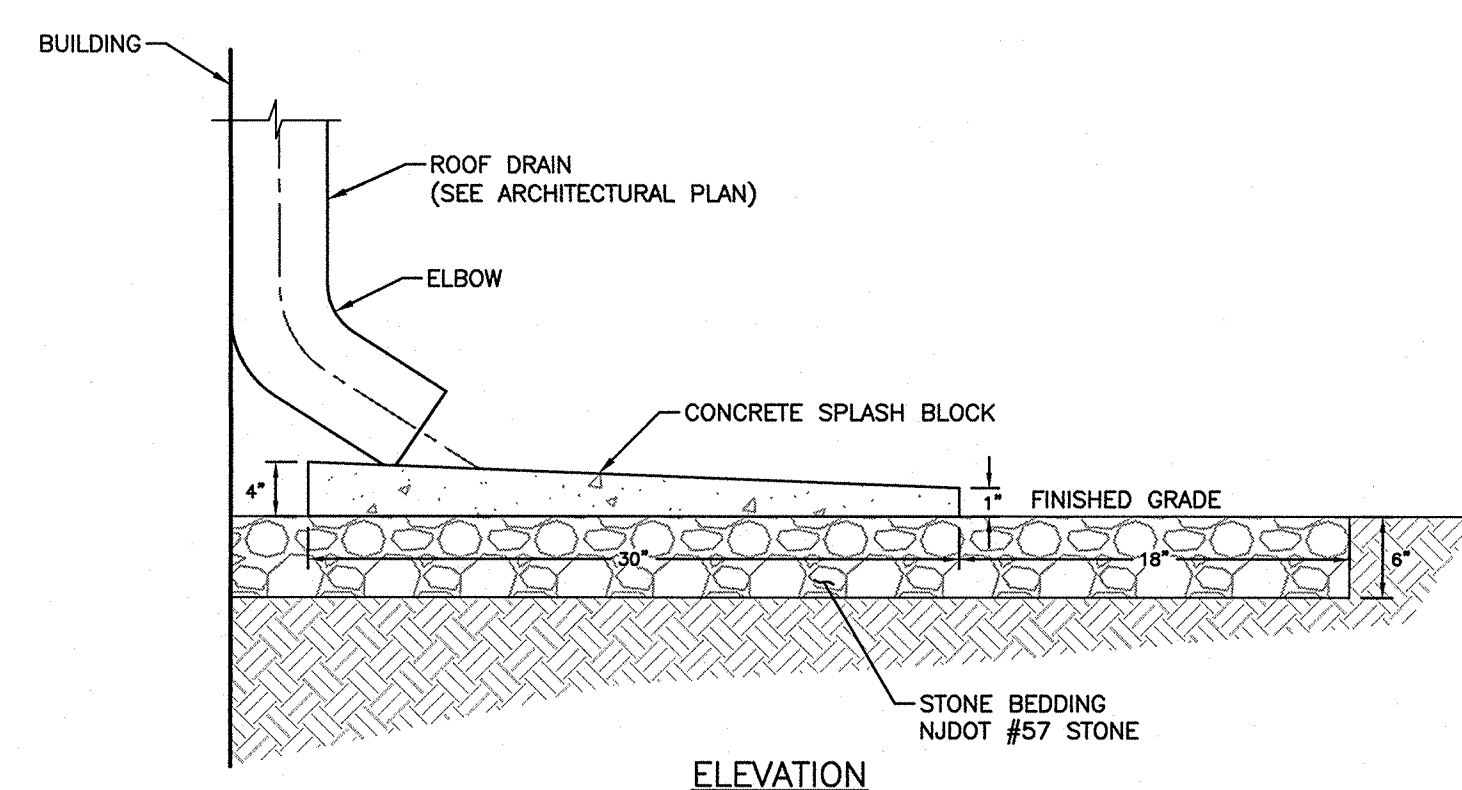
TRENCH DETAIL FOR RCP PIPE

NTS



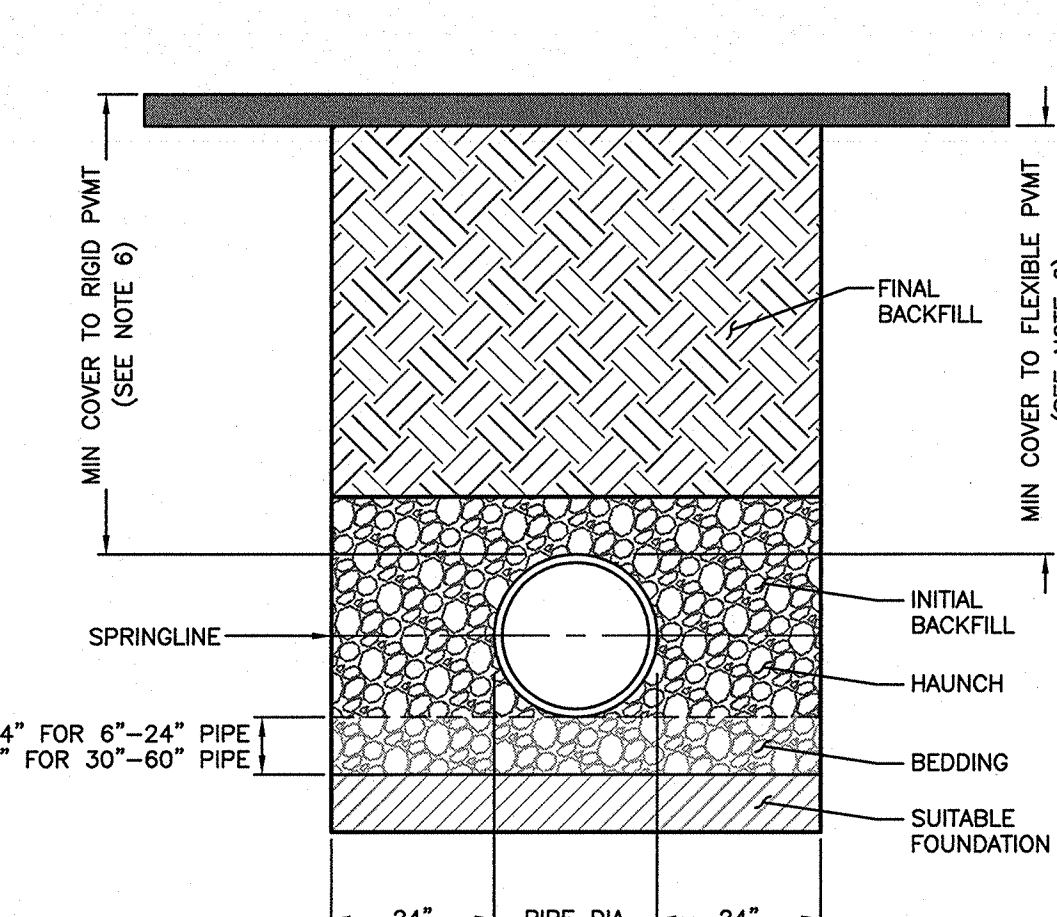
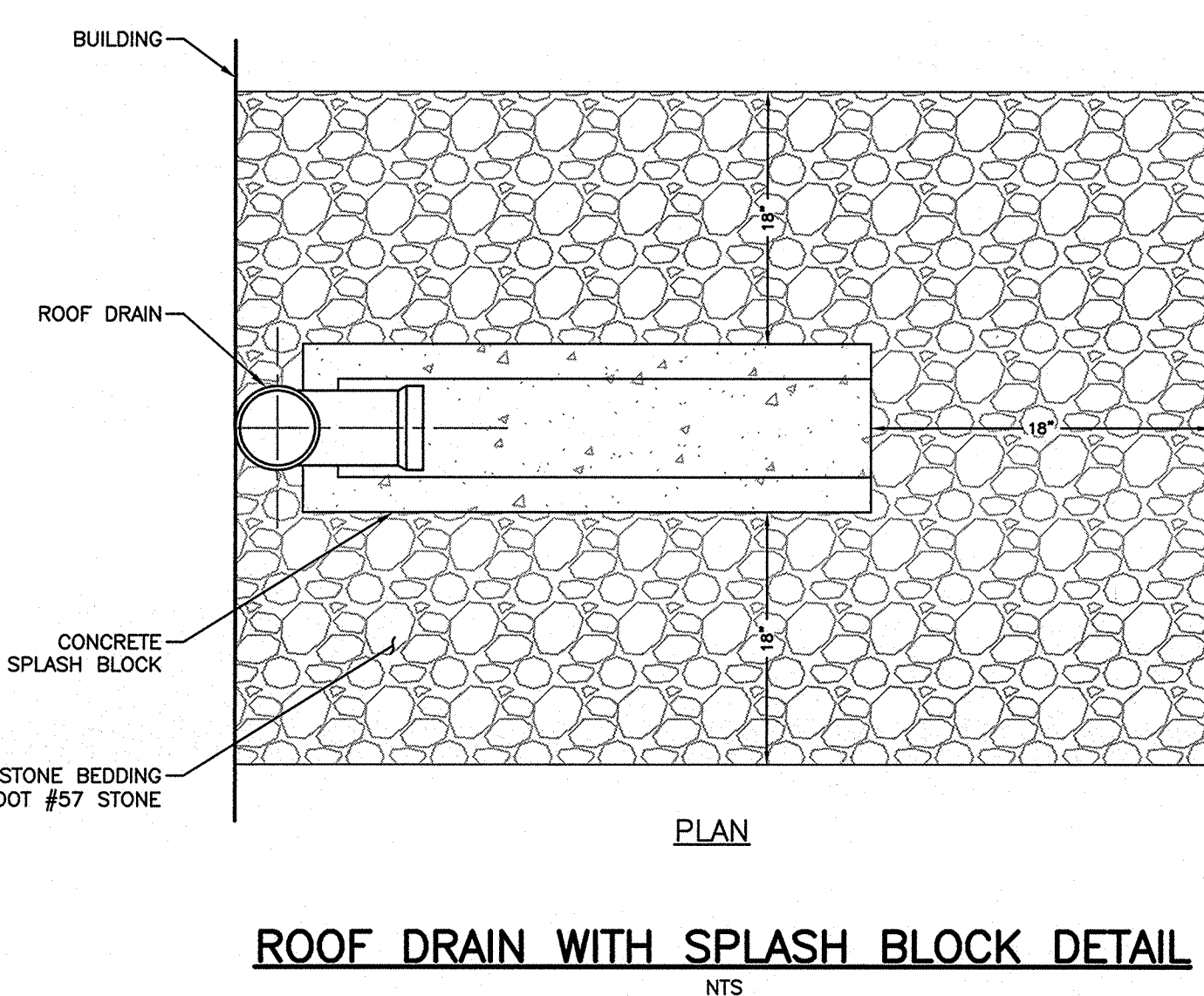
ROOF DRAIN CLEAN-OUT DETAIL

NTS



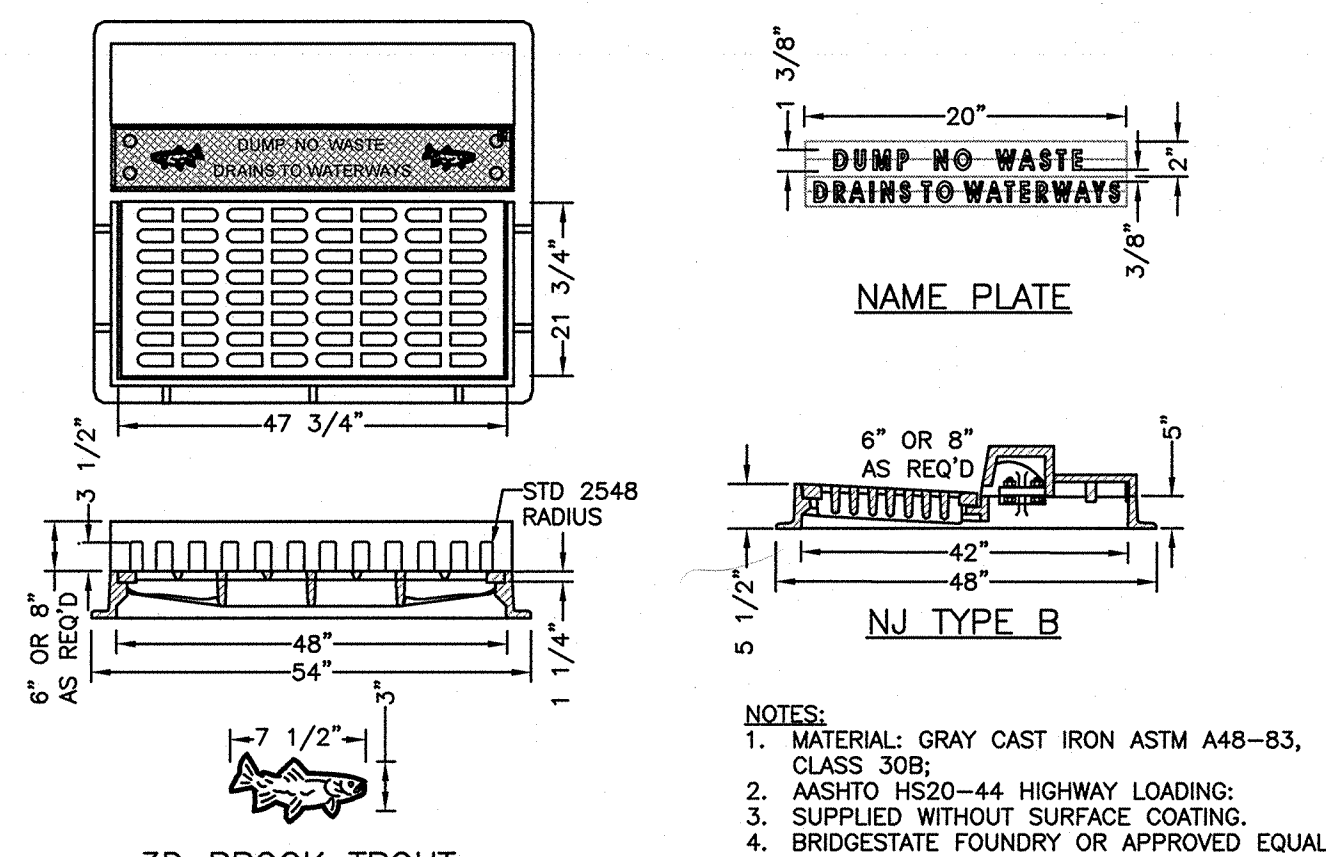
TYPE A INLET DETAIL

NTS



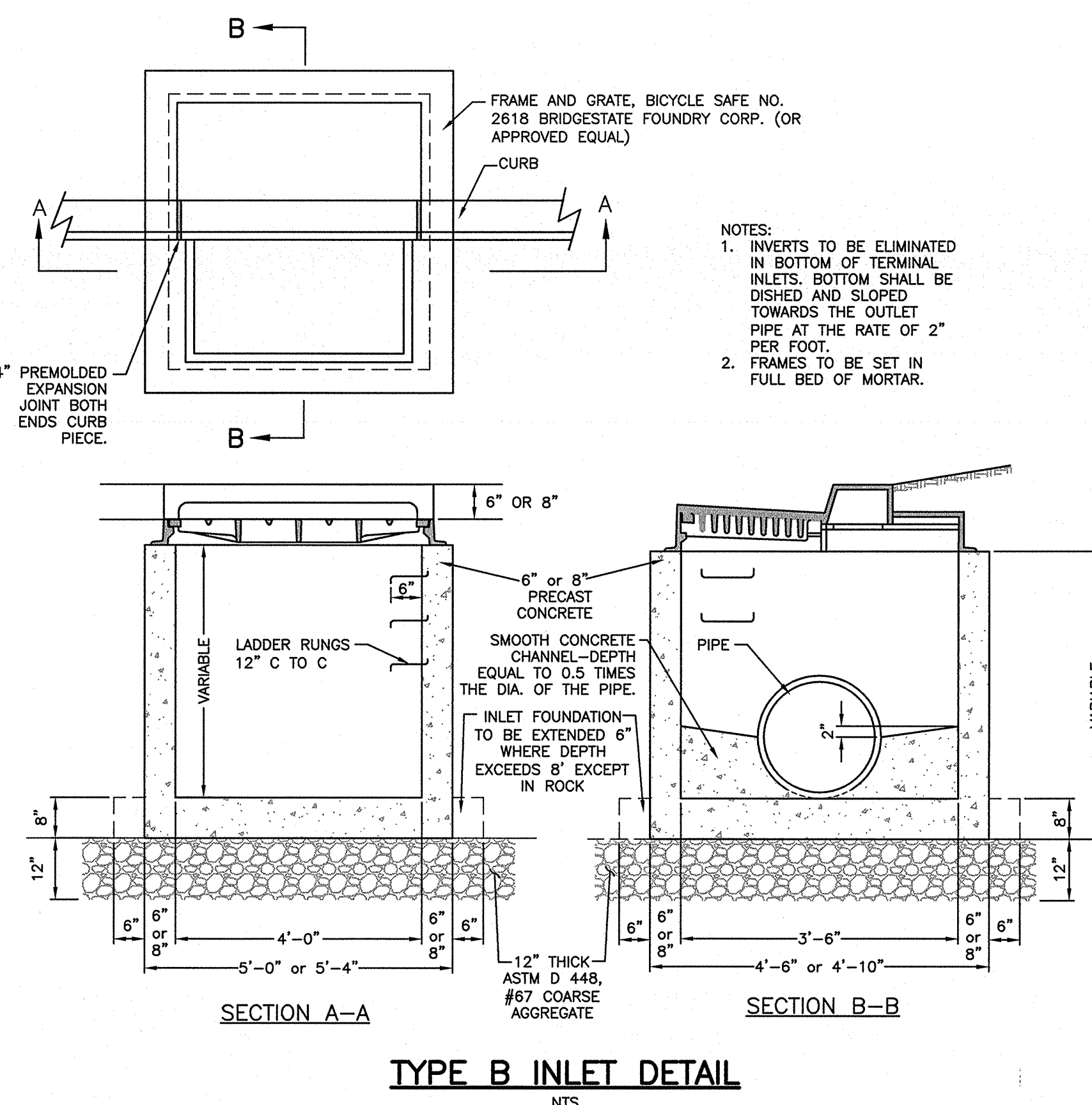
TYPICAL TRENCH DETAIL
HDPE PIPE BEDDING

NTS



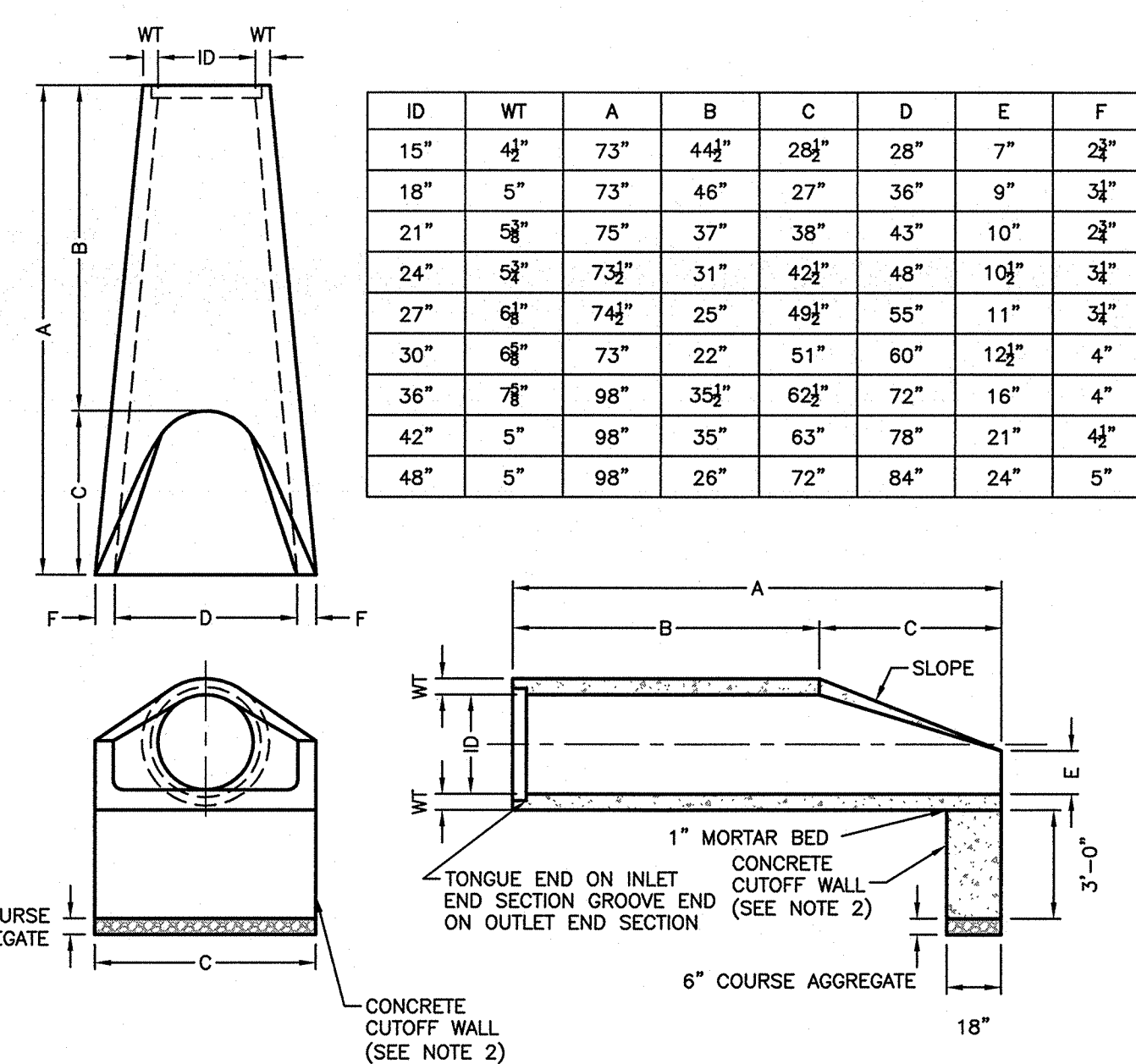
CURB INLET WITH BICYCLE SAFE GRATE
AND TYPE J-ECO CURB PIECE

NTS



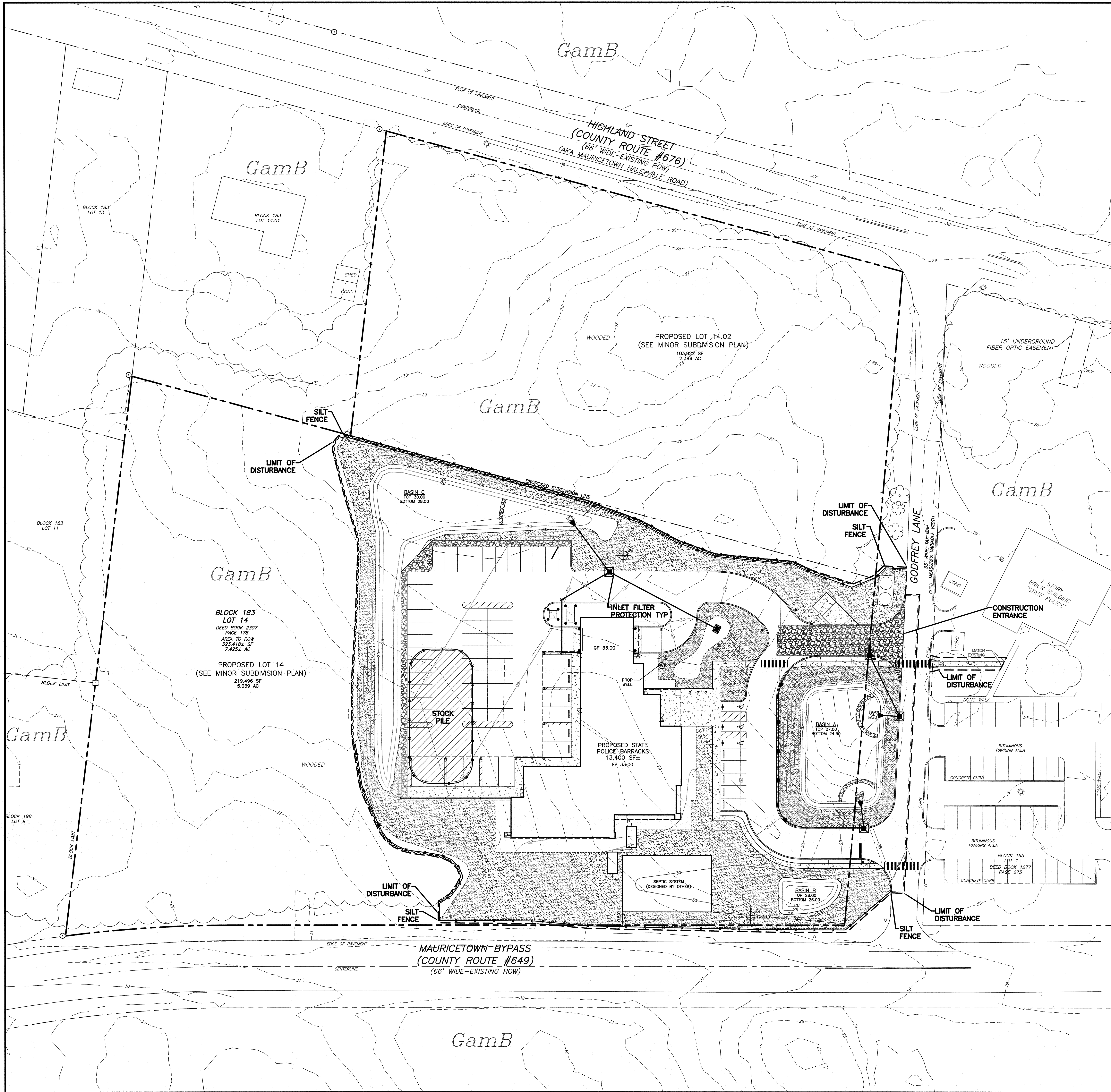
TYPE B INLET DETAIL

NTS



CONCRETE PIPE FLARED END SECTION

NTS



LEGEND

[Symbol]	PROPERTY OUTBOUND
[Symbol]	EXISTING RIGHT OF WAY
[Symbol]	EXISTING CENTERLINE
[Symbol]	EXISTING LOT LINE
[Symbol]	EXISTING TREELINE
[Symbol]	EXISTING CURB
[Symbol]	PROPOSED CURB
[Symbol]	EXISTING EDGE OF PAVEMENT
[Symbol]	PROPOSED EDGE OF PAVEMENT
[Symbol]	EXISTING FENCE
[Symbol]	PROPOSED FENCE
[Symbol]	EXISTING CONTOUR 1' INTERVAL
[Symbol]	EXISTING CONTOUR 5' INTERVAL
[Symbol]	PROPOSED CONTOUR 1' INTERVAL
[Symbol]	PROPOSED CONTOUR 5' INTERVAL
[Symbol]	PROPOSED FINISHED FLOOR ELEVATION
[Symbol]	PROPOSED SPOT ELEVATION
[Symbol]	PROPOSED TOP OF CURB ELEVATION
[Symbol]	PROPOSED BOTTOM OF CURB ELEVATION
[Symbol]	EXISTING STORM SEWER AND INLET
[Symbol]	PROPOSED STORM SEWER & INLET
[Symbol]	PROPOSED CLEAN OUT
[Symbol]	PROPOSED STORM MANHOLE
[Symbol]	TEST PIT LOCATION
[Symbol]	RECOMMENDED SOIL COMPACTION TEST LOCATION (APPROX 1 PER .5 ACRE)
[Symbol]	SOIL COMPACTION TESTING AREAS
[Symbol]	LIMIT OF SOIL COMPACTION TESTING
[Symbol]	LIMIT OF DISTURBANCE
[Symbol]	SILT FENCE
[Symbol]	REINFORCED SILT FENCE
[Symbol]	SUPER SILT FENCE
[Symbol]	SNOW FENCE
[Symbol]	INLET PROTECTION
[Symbol]	EROSION MATTING SLOPE PROTECTION
[Symbol]	SOIL LIMIT LINE
[Symbol]	SOIL TYPE

0 30 60 Feet
SCALE: 1" = 30'

SOIL EROSION & SEDIMENT CONTROL PLAN	
NEW JERSEY STATE POLICE TROOP A - PORT NORRIS BARRACKS	
2007 HIGHLAND ST, PORT NORRIS COMMERCIAL TWP. NJ 08349	
PLATE 7, BLOCK 183, LOT 14	
PREPARED BY CONSULTING ENGINEER SERVICES PROJECT ENGINEER: JAMES J. SIMKINS 645 BERLIN-CROSS KEY DRIVE SUITE 200 PORT NORRIS, NJ 08061 PHONE (609) 228-2200 - FAX (609) 232-2346 - EMAIL design@ces-1.com NJ CERTIFICATE OF AUTHORIZATION No. 24607987700, 21M000134	DATE: 01/16/24 BY: O. ANDREW SIMKINS PROFESSIONAL ENGINEER, NEW JERSEY LIC. NO. 24GE03022300

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THE PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, IN NEW JERSEY.
3. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
4. ANY DISTURBED AREA THAT WILL 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 NEW JERSEY STANDARDS AND APPLICATION RATES SHALL BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH MATTING OR LIQUID MULCH BINDER).
5. 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.
6. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
7. ALL SOIL EROSION AND SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
8. SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE. PROPOSED LOCATIONS MUST BE DELINEATED ON THE PLAN.
9. A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ENTRANCE EXISTS. THE RIP-RAP PAD MUST BE 100 FEET IN LENGTH AND THE STONE MUST BE 1.5" - 4" IN SIZE, PLACED 1.2" THICK AND THE FULL WIDTH OF THE ENTRANCE. IT SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED. (THE STRUCTURE MUST BE DELINEATED AND DETAIL INCLUDED ON THE PLANS.)
10. IF A STONE CONSTRUCTION ENTRANCE IS TO BE USED AS AN EXIT ON TO A MAJOR HIGHWAY, A THIRTY (30) FOOT PAVED TRANSITION AREA SHALL BE INSTALLED.
11. ALL DRIVEWAYS MUST BE STABILIZED WITH 2 1/2" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
13. ALL CATCH BASIN INLETS WILL BE PROTECTED DURING CONSTRUCTION (FILTER DETAILS APPEAR ON PLAN).
14. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
15. ALL DRAINAGE OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTRATION DEVICE. THE SEDIMENT FILTER MUST BE CAPABLE OF FILTERING THE SEDIMENT AND BE PLACED SO AS NOT TO CAUSE EROSION OF THE DOWNSIDE AREA. DETAILS AND MAINTENANCE OF THE DEVICE MUST BE INCLUDED ON THE PLANS. FIELD PLACEMENT AND USE OF THE STRUCTURE MUST BE APPROVED BY THE DISTRICT EROSION CONTROL INSPECTOR PRIOR TO COMMENCEMENT OF DRAINAGE ACTIVITIES.
16. THE CUMBERLAND/SALEM SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING, 72 HOURS PRIOR TO ANY LAND DISTURBANCE.
17. TOPSOIL: A STANDARD UNIFORM APPLICATION OF 5 INCHES OF CLEAN TOPSOIL IS RECOMMENDED. SOILS HAVING A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE MUST BE COVERED WITH A MINIMUM OF 2 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE BEFORE SEEDBED PREPARATION.
18. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION RATES AT THE REQUEST OF THE CUMBERLAND/SALEM SOIL CONSERVATION DISTRICT.
19. N.J.S.A. 4:24-39, ET SEQ., REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES.
20. N.J.S.A. 4:24-39, ET SEQ., REQUIRES THAT UPON PERMANENT SITE STABILIZATION AND COMPLETION OF THE CONTRACTOR SHALL APPLY TO THE SOIL CONSERVATION DISTRICT FOR A FINAL COMPLIANCE INSPECTION TO CHECK THAT ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES.
21. OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
22. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
23. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ALL SUBSEQUENT OWNERS.
24. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, SEED THE STOCKPILE WITH ANNUAL RYE GRASS, STABILIZE TOPSOIL STOCKPILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING.
25. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE CUMBERLAND/SALEM SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
26. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
27. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.

GENERAL MAINTENANCE NOTES

1. MAINTENANCE SHALL OCCUR ON A REGULAR BASIS CONSISTENT WITH FAVORABLE PLANT GROWTH SOIL AND CLIMATE CONDITIONS.
2. ALL PROPOSED SEDIMENT BASINS SHALL BE REMOVED OF SILT AND SEDIMENT SO THAT PROPER CONTACT TIME IS ACHIEVED TO OBTAIN PROPER SEDIMENT REQUIREMENTS.
3. ALL RIP RAP AND CONSTRUCTION ENTRANCE SHALL BE RAKED AS REQUIRED TO MAINTAIN INTENDED USE
4. WHEN IT BECOMES NECESSARY, THE OWNER SHALL INFORM THE CONTRACTORS OF UNSATISFACTORY CONDITION OR EROSION AND SEDIMENT DEVICES. AT SUCH TIME THE CONTRACTOR SHALL IMPROVE THE CONDITIONS OF SAID DEVICES TO MEET WITH THE APPROVAL OF THE OWNER.
5. SHOULD UNFORESEEN EROSION CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT DISPLACEMENT
6. SEEDED AREAS THAT HAVE BEEN WASHED AWAY SHALL BE FILLED AND GRADED AS NECESSARY AND THEN RESEED. THE PROCEDURE SHALL BE REPEATED AFTER EACH STORM OR UNTIL NO MORE SIGNS OF EROSION ARE EVIDENT
7. CONTROL MEASURES SHALL APPLY TO SUBSEQUENT OWNERS IF TITLE IS CONVEYED.
8. THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING AND AFTER CONSTRUCTION.

SCHEDULE OF SEED MIXTURE FOR SOIL STABILIZATION

TEMPORARY SEED MIX	RATE (LBS./ACRE)	PERENNIAL SEED MIX	RATE (LBS./ACRE)
WINTER RYE	55	PERENNIAL RYE	55
WEeping LOVEGRASS	10	CHEWINGS RED FESQUE	40
ANNUAL RYE	55	CREeping RED FESQUE	40
SERICEA LESPEDEZA	55	KENTUCKY BLUE GRASS	40
175 LBS. MIN.		175 LBS MIN	

1. ALL SEEDING, STABILIZATION, ETC. SHALL BE AS SPECIFIED IN THE CURRENT EDITION OF THE NEW JERSEY DEPARTMENT OF AGRICULTURE'S "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY."
2. FERTILIZER TO BE 10-6-4 OR 10-5-5 APPLIED AT 800 TO 1000 LBS/ACRE, OR 5-10-10 OR 5-10-5 APPLIED AT 500-600 LBS/ACRE. EXACT APPLICATION RATE TO BE DETERMINED BY SOIL TESTING.
3. GROUND LIMESTONE TO BE SPREAD AT VARYING RATES TO CORRECT EXISTING PH VALUES TO A LEVEL OF 6.5.

TEMPORARY SOIL STABILIZATION COVER

PRIOR TO HALTING CONSTRUCTION FOR PERIODS LONGER THAN 30 DAYS AND DURING THE OFF SEASON, THE CONTRACTOR SHALL STABILIZE WITH TEMPORARY VEGETATIVE COVER AND ALL EXPOSED SOILS. TEMPORARY VEGETATIVE COVER SHALL BE ACCOMPLISHED BY THE FOLLOWING METHODS AND MATERIALS.

1. FERTILIZER SHALL BE APPLIED AT A RATE OF 500 LBS/ACRES OR 11 LBS/1000 SF OF 10-20-10 OR EQUIVALENT. IF SEED IS DRILLED OVER BANDED FERTILIZED, THE RATE OF FERTILIZER MAY BE REDUCED BY 50%.
2. LIMESTONE SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE OR 90 LBS/1000 SF LIMESTONE EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES SHALL BE USED
3. LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT.
4. MULCHING SHALL BE APPLIED AFTER SEEDING. MULCH MATERIALS SHALL BE UNROTTED, SMALL GRAIN STRAW, HALF FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 S.F.) EXCEPT THAT WHERE INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION SHALL BE DOUBLED. MULCH SHALL BE SPREAD UNIFORMLY SO THAT APPROXIMATELY 75% TO 95% OF THE SOIL SURFACE WILL BE COVERED.
5. MULCH SHALL BE ANCHORED IMMEDIATELY AFTER PLACEMENT BY: LIQUID MULCH BINDERS--MAY BE USED TO ANCHOR SALT HAY OR STRAW MULCHES.
A. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS AND AT CRESTS OF BANKS. REMAINDER OF 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 GET AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GET SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOXIC EFFECT OR IMPIDE 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, MISCIABLE 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.
3) 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.
ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.
6. MULCH MAY BE USED IN PLACE OF TEMPORARY SEEDING IF SPREAD AT A RATE OF 2.0 TO 2.5 TONS PER ACRE AND ANCHORED AS DISCUSSED ABOVE. A MULCH ANCHORING TOOL MAY BE USED WHERE CONDITIONS PERMIT. TOOL PENETRATION SHALL BE DONE ABOUT 3 TO 4 INCHES. ON SLOPING LAND, THE OPERATION SHALL BE DONE ON THE CONTOUR.
7. TEMPORARY SEED MIX SHALL BE PERENNIAL RYEGRASS AT A RATE OF 40 LBS/ACRE OR 1 LB/1000 S.F. SEED MIX SHALL BE APPLIED UNIFORMLY. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH THE SEED. EXCEPT FOR DRILLED, HYDROSEEDER OR CULT PACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH BY RAKING OR DRAGGING.
8. SEEDING MIX SHALL BE APPLIED BETWEEN 3/1 - 5/15 OR 8/15 - 10/1 WHEN REQUIRED. IF STABILIZATION IS REQUIRED OUTSIDE THESE SEEDING DATES, MULCH SHALL BE USED AS DEFINED ITEM NO. 6.

PERMANENT VEGETATIVE COVER

IMMEDIATELY FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES AT THE SITE, THE CONTRACTOR SHALL STABILIZE WITH PERMANENT VEGETATIVE COVER, ALL EXPOSED AND DISTURBED SOILS. PERMANENT VEGETATIVE COVER SHALL BE ACCOMPLISHED AS SPECIFIED BELOW.

1. TOPSOILING: THE CONTRACTOR SHALL PREPARE AREAS TO BE STABILIZED WITH PERMANENT VEGETATIVE COVER BY APPLYING TOPSOIL TO A UNIFORM DEPTH OF 5 INCHES. TOPSOIL SHALL BE FERTILE AND LOAMY AND OF GOOD QUALITY.
2. FERTILIZER: SHALL BE APPLIED AT A RATE OF 500 LB/ACRE OF 11 LBS/1000 S.F. OF 10-20-20 OR EQUIVALENT. IN ADDITION, 300 LBS OR 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOPDRESSING.
3. LIMESTONE: SHALL BE APPLIED AT A RATE OF 3 TONS/ACRE 135 LBS/1000 S.F. LIMESTONE EQUIVALENT OF 50% CALCIUM PLUS MAGNESIUM OXIDES SHALL BE USED.
4. LIME AND FERTILIZER: SHALL BE WORKED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 5 INCHES UNTIL A REASONABLE UNIFORM, FINE SEEDBED PREPARED.
5. MULCHING: SHALL BE APPLIED AFTER SEEDING. MULCH MATERIALS SHALL BE UNROTTED, SMALL GRAIN STRAW, HALF FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT A RATE OF 1 1/2 TO 2 TONS PER ACRE (70 LBS TO 90 LBS/1000 S.F.), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION SHALL BE 3 TONS/ACRE
6. MULCHING SHALL BE ANCHORED IMMEDIATELY AFTER PLACEMENT BY THE FOLLOWING METHOD: LIQUID MULCH BINDERS
7. TOPDRESSING: AN APPLICATION OF FERTILIZER SUCH AS 10-10-10 OR EQUIVALENT AT 400 LBS/ACRE OR 10 LBS/1000 S.F. BETWEEN SEPTEMBER AND OCTOBER 15 SHALL BE REQUIRED FOR SPRING SEEDING UNLESS A SLOW RELEASE NITROGEN IS AS STATED ABOVE.

STANDARDS FOR DUST CONTROL

DURING CONSTRUCTION ACTIVITY THE FOLLOWING METHODS SHOULD BE CONSIDERED

- A. CALCIUM CHLORIDE -- SHALL BE IN A LOOSE, DRY GRANULAR FORM FINE ENOUGH TO USE IN A STANDARD SEED SPREADER, AT A RATE THAT WILL KEEP THE SUBJECT SURFACE MOIST, BUT NOT CAUSE PLANT DAMAGE OR POLLUTION BY SATURATION IF USED ON STEEP SLOPES OTHER MEASURES SHALL BE TAKEN TO INSURE PROTECTION FROM CONTAMINATION INTO STREAMS, STORM SEWERS OR ACCUMULATING AROUND PLANT LIFE.
- B. SPRINKLING -- SHALL BE OF NON-CONTAMINATED WATER SPRINKLED AT A RATE TO WET THE SUBJECT SURFACE, BUT NOT TO CAUSE EROSION OR PONDING -- IMPOUNDMENT.

OTHER METHODS ACCEPTABLE ARE LISTED IN THE CURRENT EDITION OF THE NEW JERSEY DEPARTMENT OF AGRICULTURE'S "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY."

SOIL DE-COMPACTION AND TESTING REQUIREMENTS

SOIL COMPACTION TESTING REQUIREMENTS

1. SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
2. AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION CONTROL PLAN.
3. COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN OR PORTION OF THE PLAN SHALL BE USED TO MARK LOCATIONS OF TESTS, AND ATTACHED TO THE COMPACTION MITIGATION VERIFICATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.
4. IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE SHAPFURD TESTING METHODS (SEE DETAILS), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION. WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

COMPACTION TESTING METHODS

- A. PROBING WIRE TEST (SEE DETAIL)
- B. HAND-HELD PENETROMETER TEST (SEE DETAIL)
- C. TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- D. NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)

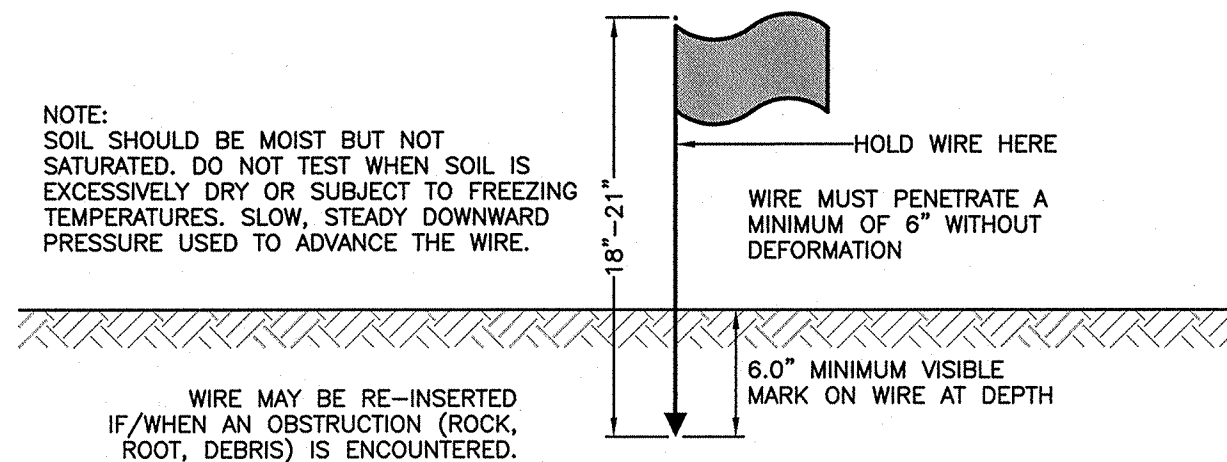
NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.

SOIL COMPACTION TESTING IS NOT REQUIRED IF WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

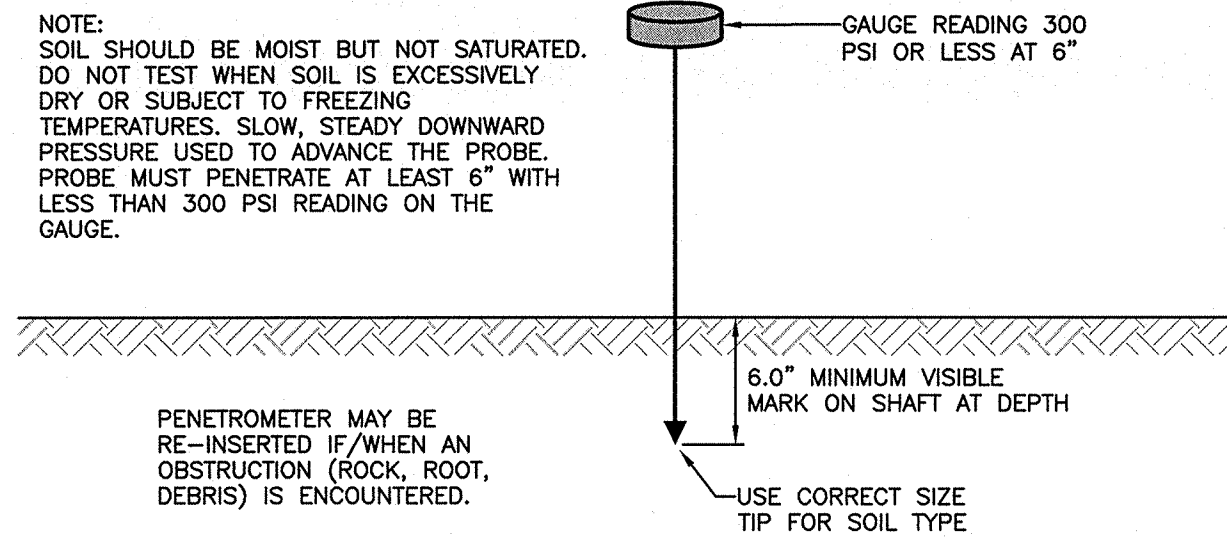
PROCEDURES FOR SOIL COMPACTION MITIGATION

PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAYBE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.



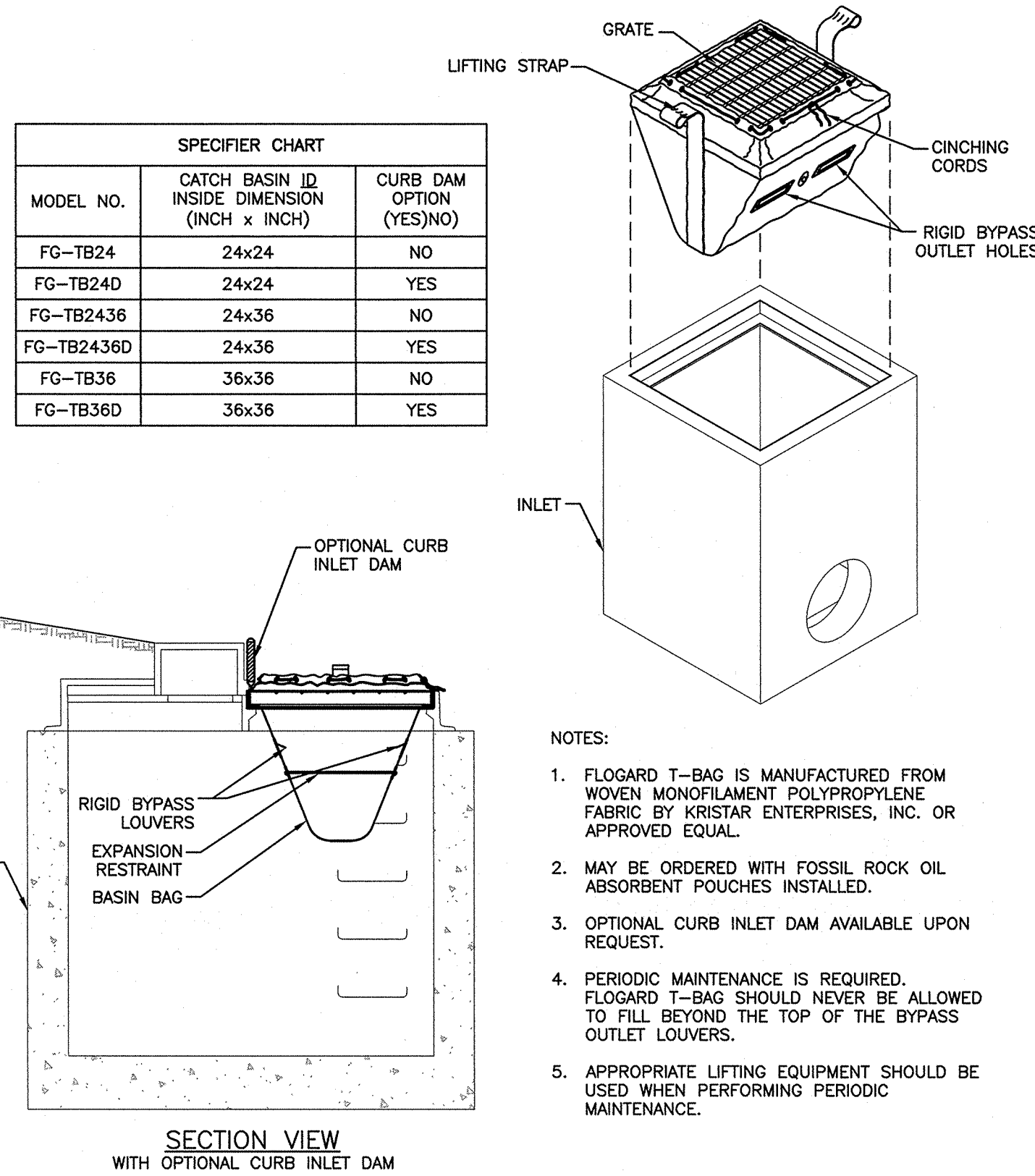
PROBING WIRE TEST -- 15.5 GAUGE STEEL WIRE (SURVEY FLAG)



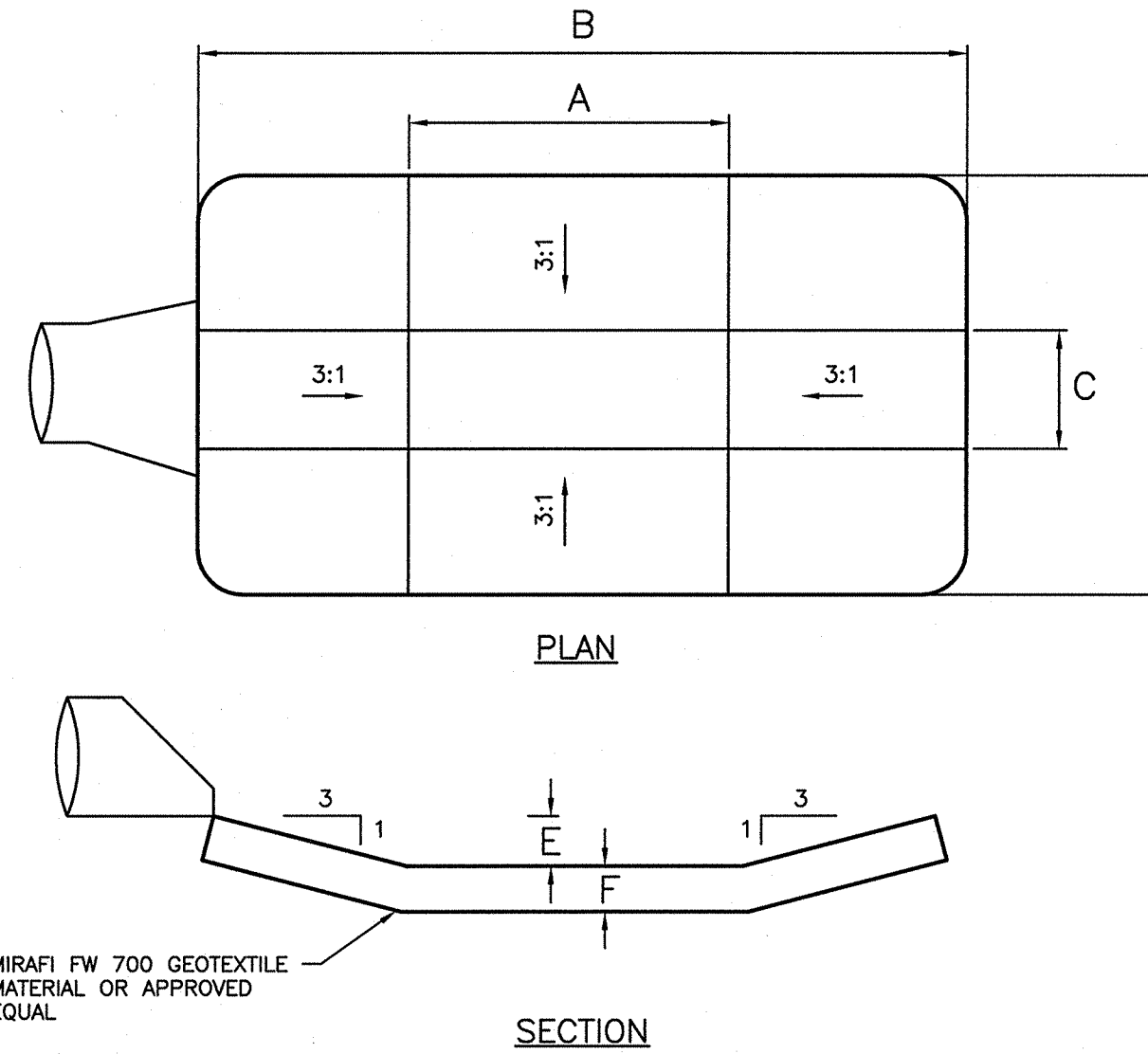
HANDHELD SOIL PENETROMETER TEST

CONSTRUCTION SEQUENCE

- | | |
|--|-------------|
| 1. MOBILIZATION | |
| 2. CONSTRUCT TEMPORARY SOIL EROSION & SEDIMENT CONTROL FACILITIES | 3 DAYS |
| 3. CLEAR AND GRUB SITE AND ROUGH GRADING | 2 WEEKS |
| 4. CONSTRUCT AND STABILIZE BASIN | 4 WEEKS |
| 5. CONSTRUCT AND MAINTAIN TEMPORARY COVER TO STABILIZE DISTURBED AREAS | 2 DAYS |
| 6. CONSTRUCT STORM SEWER AND UTILITIES | 2 WEEKS |
| 7. CONSTRUCT CURBING AND SIDEWALK | 2 WEEKS |
| 8. CONSTRUCT BASE COURSE FOR ROADWAYS | 1 WEEK |
| 9. CONSTRUCT DWELLINGS AND PERMANENT SEEDING AS COMPLETED | 10 MONTHS |
| 10. COLLECT SILT & SEDIMENT AND PLACE ON SITE | 2 DAYS |
| 11. ESTABLISH PERMANENT COVER AND LANDSCAPE | 2 WEEKS |
| 12. REMOVE TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES | 2 DAYS |
| TOTAL ESTIMATED TIME OF CONSTRUCTION | 12 MONTHS ± |



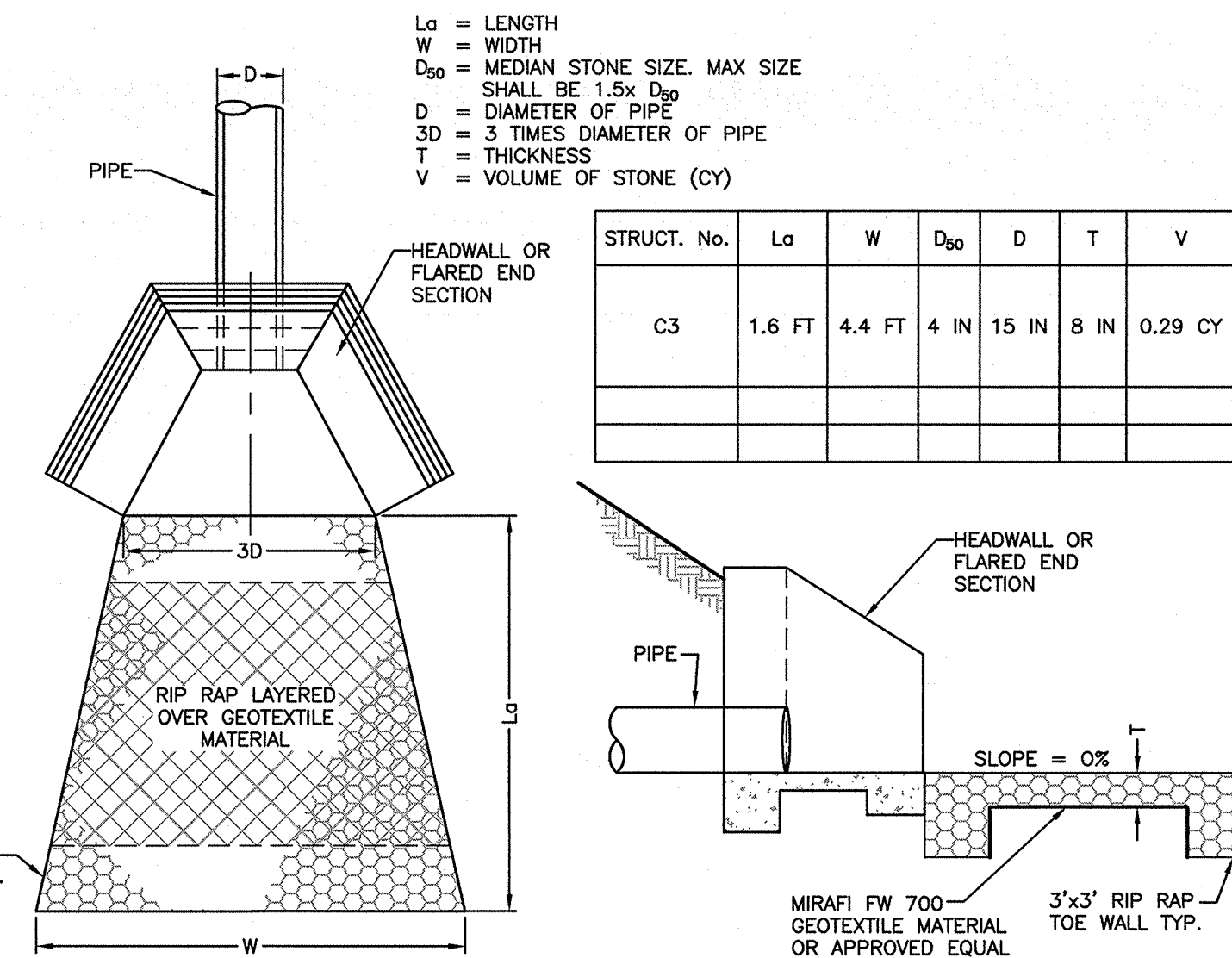
TEMPORARY INLET PROTECTION DEVICE



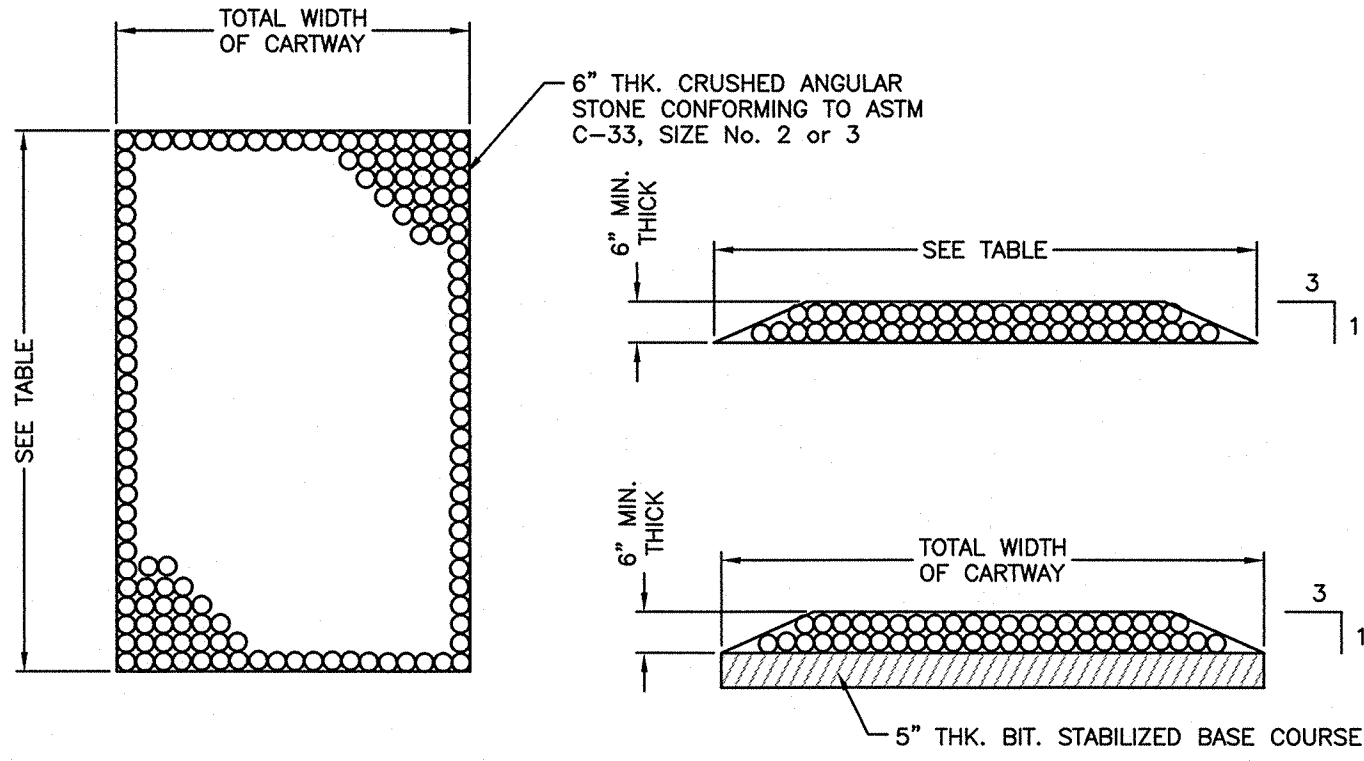
STRUCT. NO.	PIPE SIZE	A	B	C	D	E	F	RIP RAP d50	RIP RAP VOLUME*
A3	15 IN	3.8 FT	7.5 FT	2.5 FT	6.3 FT	0.6 FT	8 IN	4 IN	1.16 CY
A5	15 IN	3.8 FT	7.5 FT	2.5 FT	6.3 FT	0.6 FT	8 IN	4 IN	1.16 CY

- NOTES
1. RIP RAP VOLUME CANNOT EXCEED 10.0 CY IN WETLANDS AREA.

PREFORMED SCOUR HOLE DETAIL



RIP RAP DETAIL



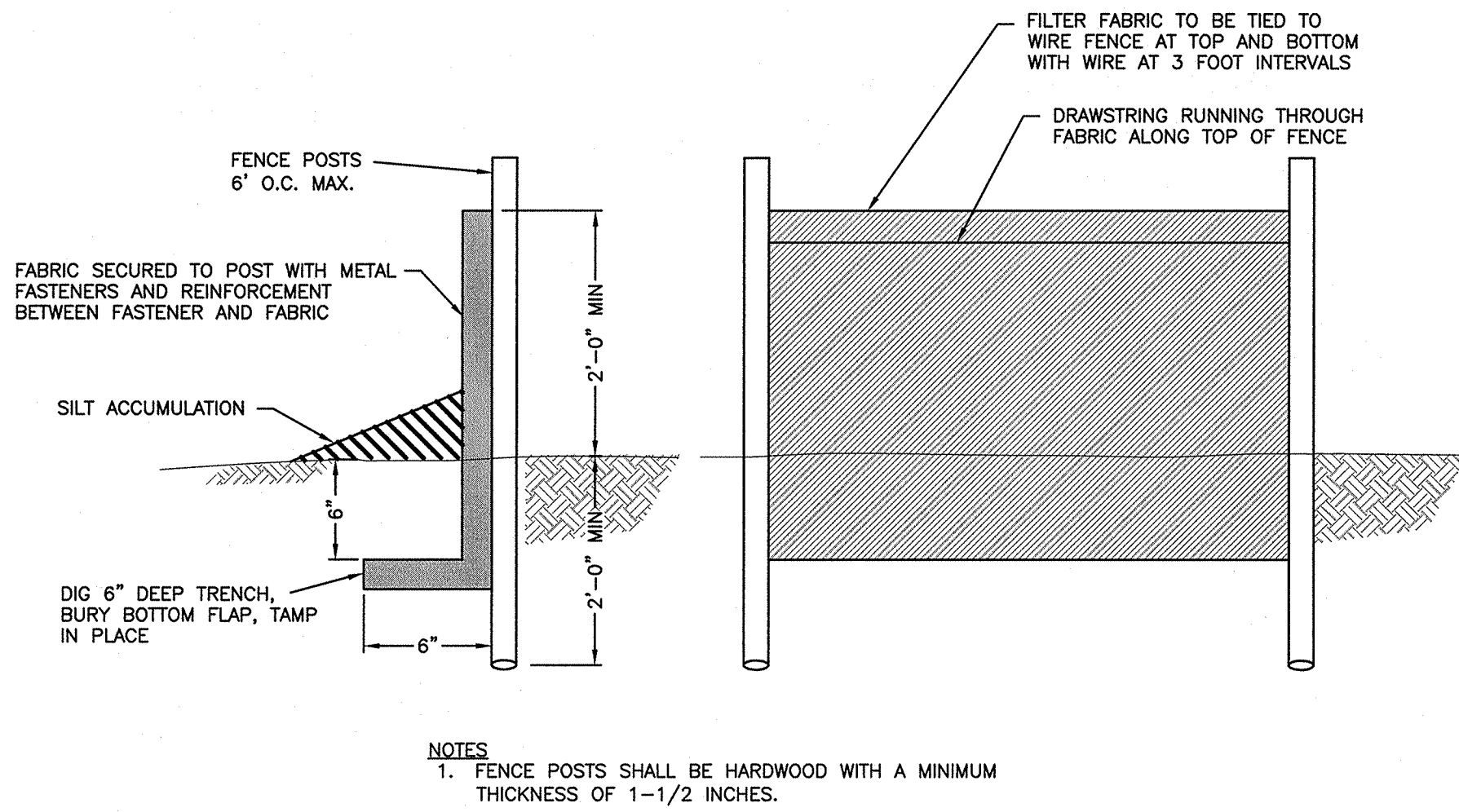
PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOILS	FINE GRAINED SOILS
0 to 2%	100 FEET	100 FEET
2 to 5%	100 FEET	200 FEET

NOTE: WHERE NEW ROAD ABUTS EXISTING MUNICIPAL ROAD OR COUNTY ROAD, A MINIMUM 100 FOOT LONG CONSTRUCTION ENTRANCE SHALL BE USED.

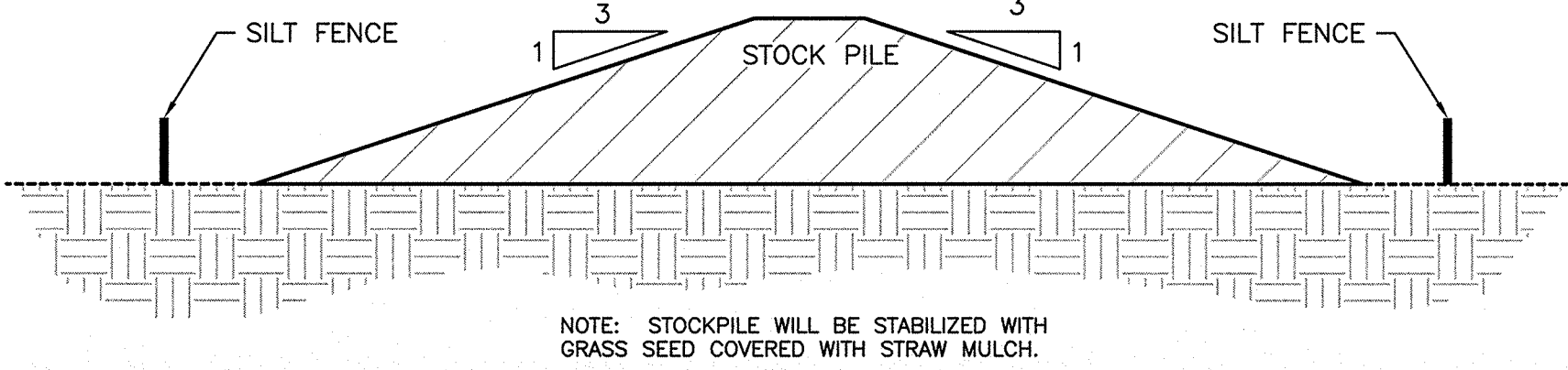
MAINTENANCE

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.

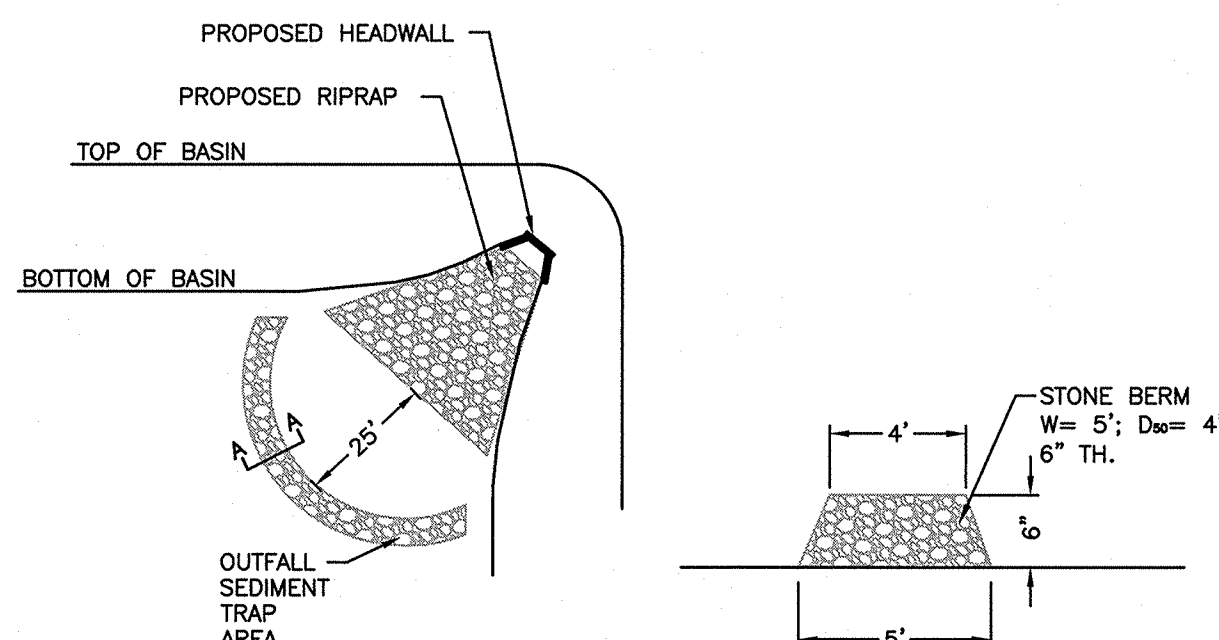
STABILIZED CONSTRUCTION ENTRANCE DETAIL



SILT FENCE DETAIL



STOCKPILE DETAIL



OUTFALL SEDIMENT TRAP AREA

SOIL EROSION & SEDIMENT CONTROL PLAN NOTES & DETAILS

PREPARED BY: CONSULTING ENGINEER
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NJ CERTIFICATE OF AUTHORIZATION NO. 24607875700, 2140000154

DATE: 12/1/2023 SCALE: AS SHOWN CES No. 3895-04-0555001 DRAWN BY: JAL

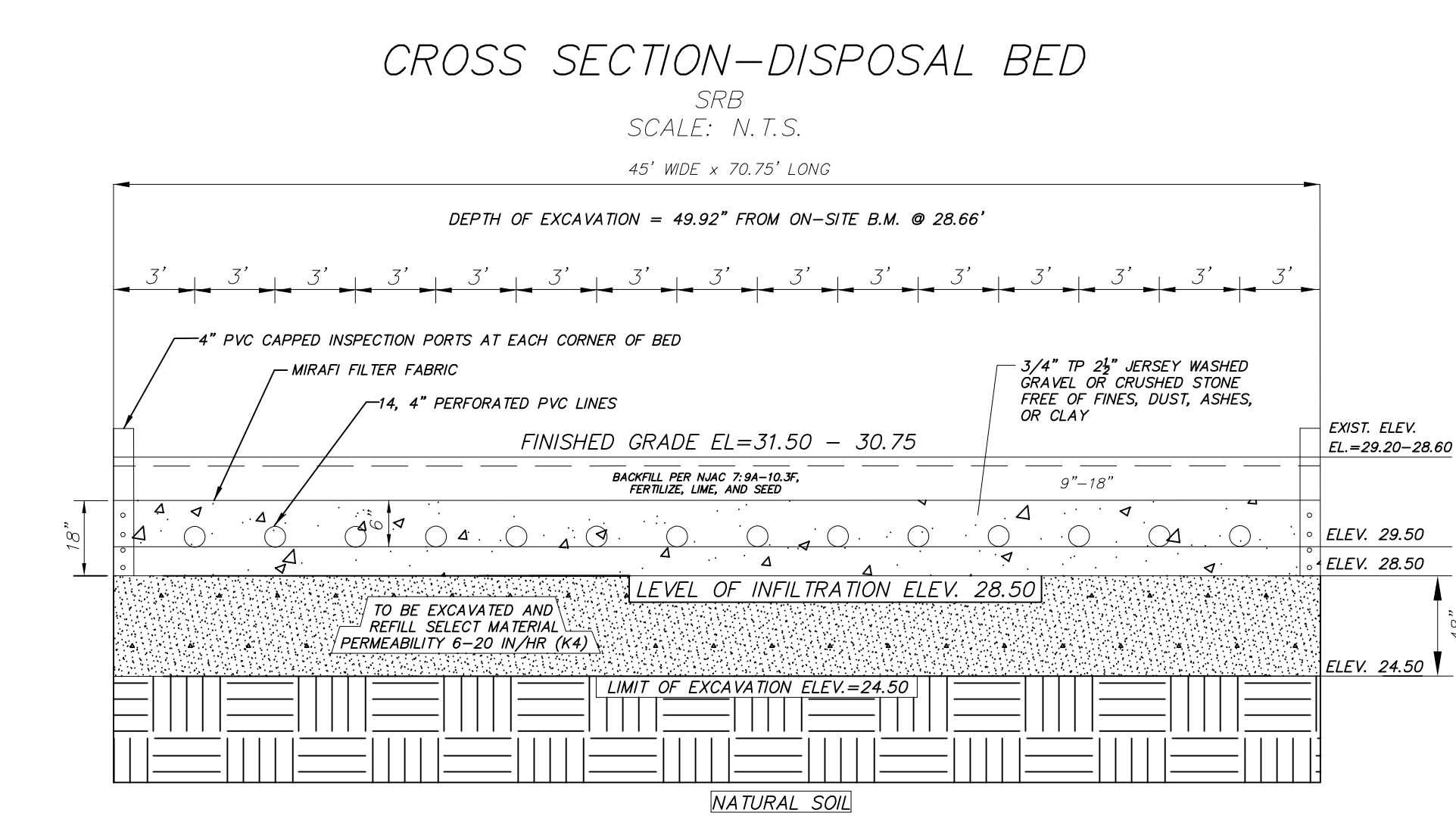
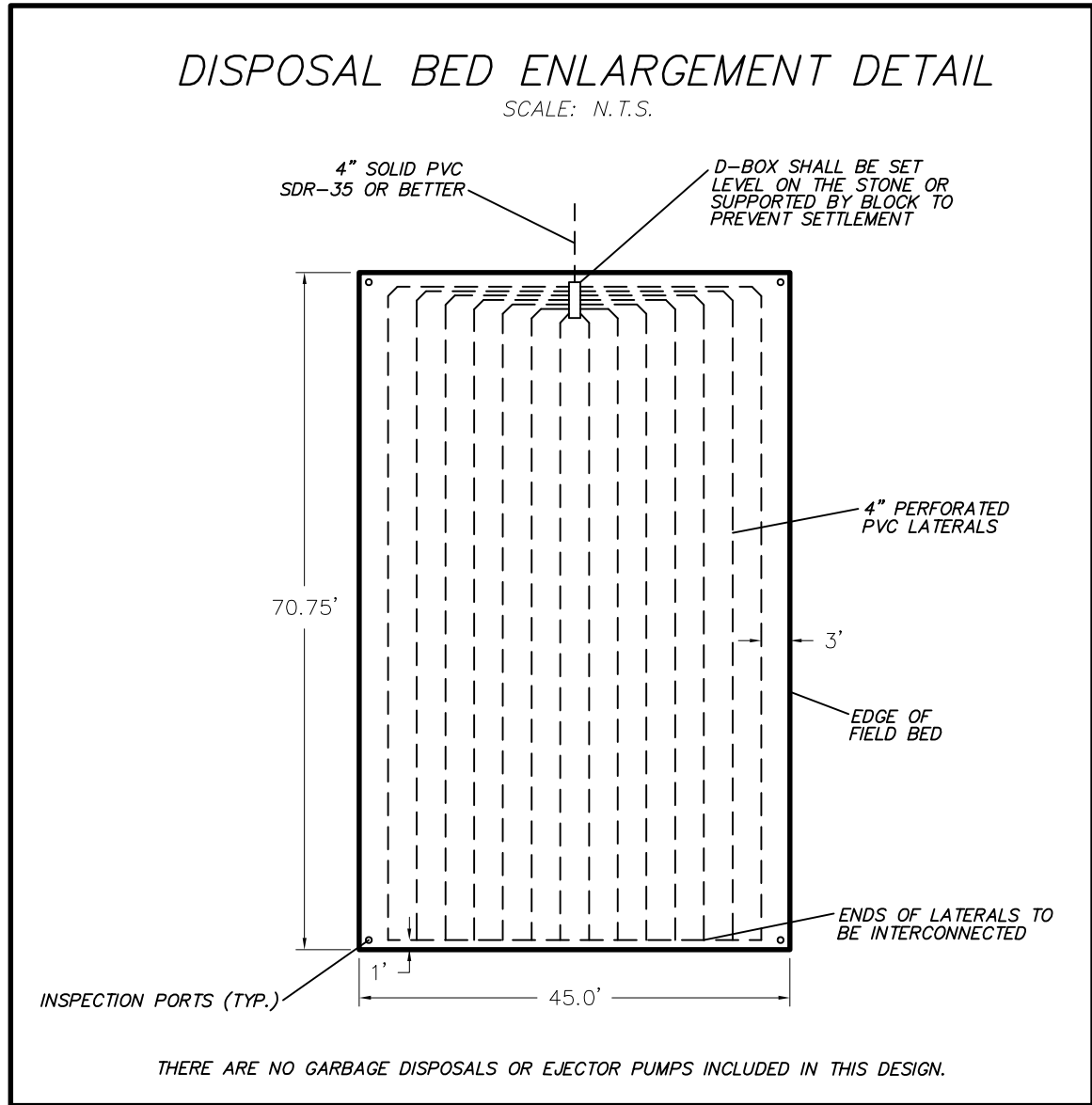
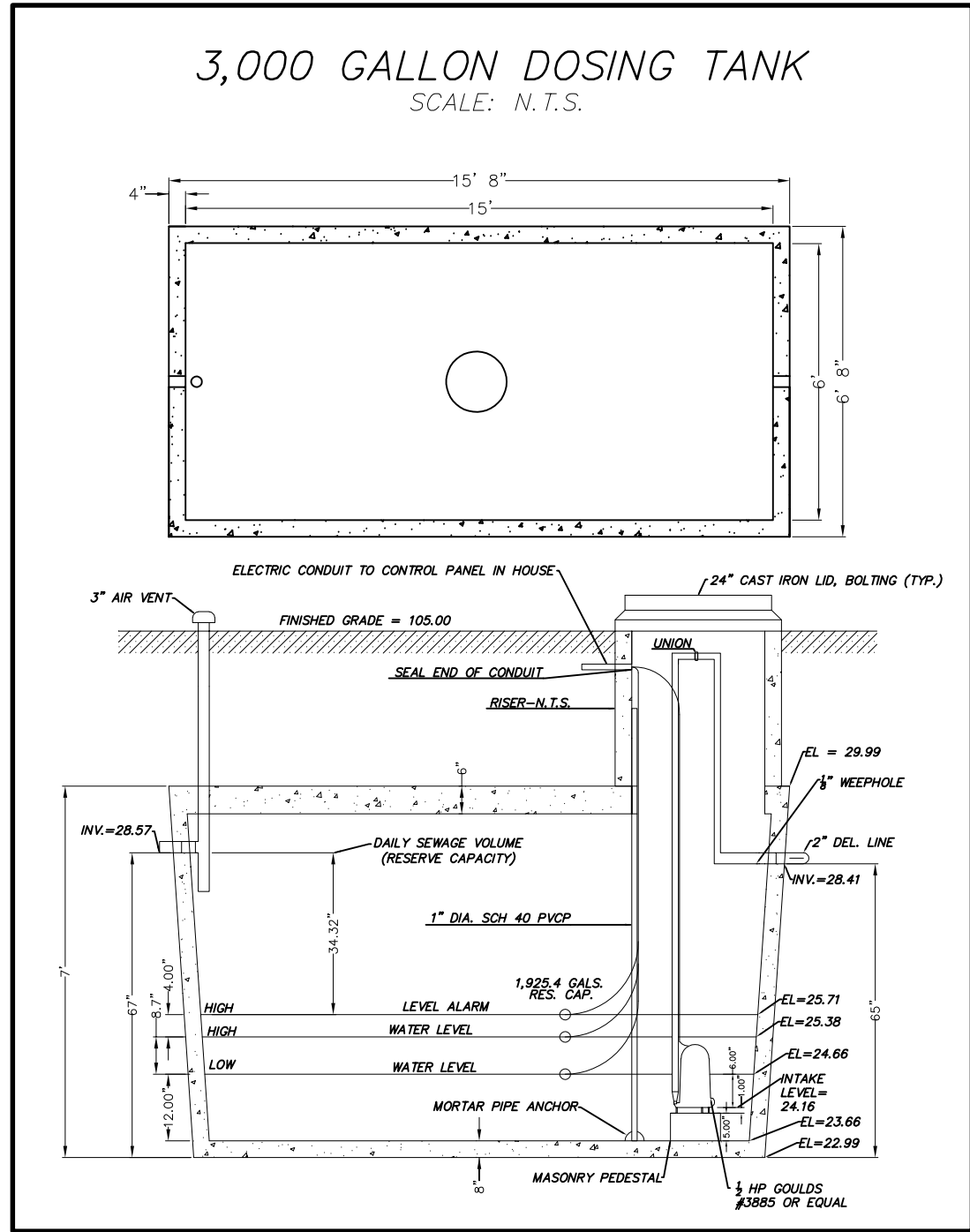
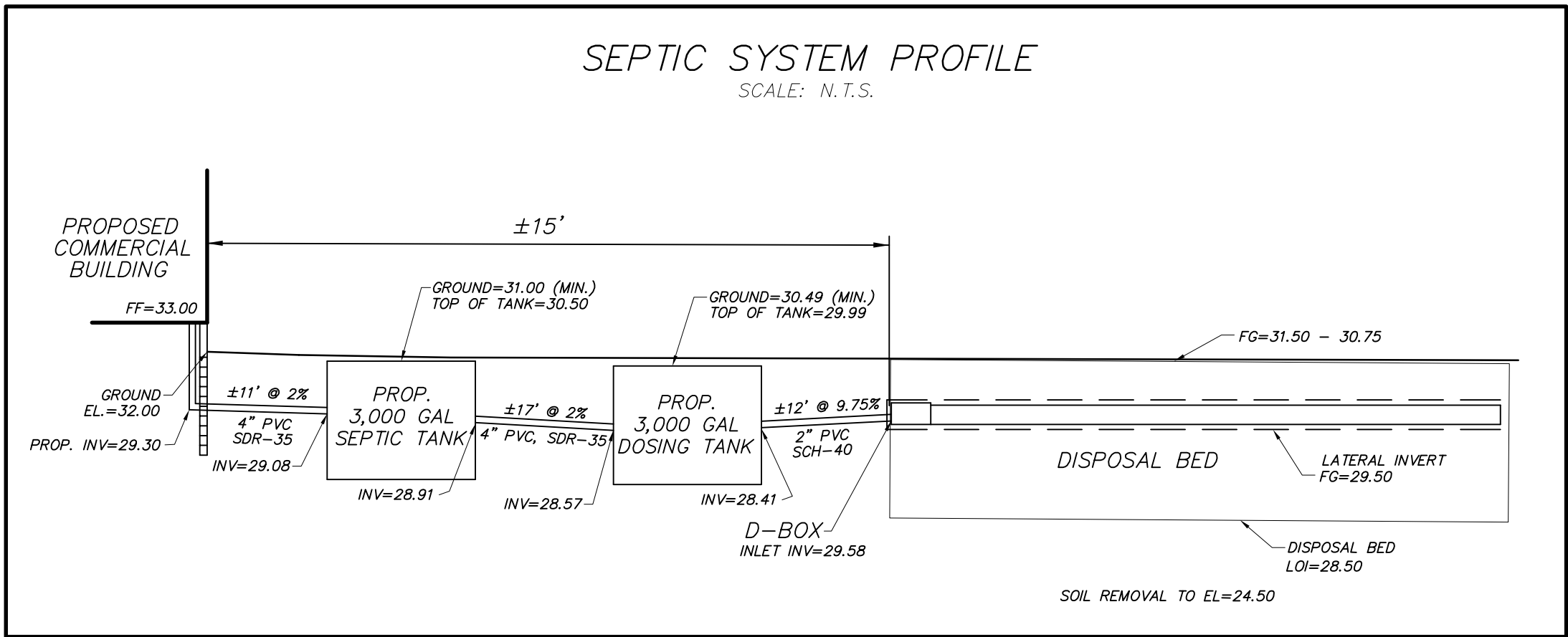
PROFESSIONAL ENGINEER, NEW JERSEY LIC. NO. 24607875700

O. ANDREW SIMKINS

01/16/24

NEW JERSEY STATE POLICE TROOP A - PORT NORRIS BARRACKS
2007 HIGHLAND ST, PORT NORRIS COMMERCIAL TWP, NJ 08349
PLATE 7, BLOCK 183, LOT 14

ES



- GENERAL NOTES:
- OUTBOUND & TOPOGRAPHIC INFORMATION TAKEN FROM "PLAN OF SURVEY & PARTIAL TOPOGRAPHY, NEW JERSEY STATE POLICE - PORT NORRIS, PLATE 7, BLOCK 183, LOT 14, COMMERCIAL TOWNSHIP, CUMBERLAND COUNTY, NEW JERSEY" DATED 6/14/22 AND PREPARED BY CONSULTING ENGINEER SERVICES.
 - SITE PLAN INFORMATION TAKEN FROM "SITE CONCEPT 1, NEW JERSEY STATE POLICE FACILITY, BLOCK 183, LOT 14, COMMERCIAL TOWNSHIP, CUMBERLAND COUNTY, NEW JERSEY" DATED 8/28/23 AND PREPARED BY CONSULTING ENGINEER SERVICES.
 - NO OTHER WELLS FOUND OR PROPOSED WITHIN 100' OF PROPOSED SEPTIC
 - ALL TREES WITHIN 10' OF THE EDGE OF SEPTIC BED SHALL BE REMOVED
 - CONTRACTOR TO CALL "ONE DIG" FOR UTILITY LOCATION PRIOR TO BEGINNING WORK
 - DISPOSAL FIELD: 45' WIDE x 70.75' LONG
14 - 4" PERFORATED PVC LINES
4" SOLID PVC BUILDING TO SEPTIC TANK, 2% MIN. SLOPE
4" SOLID PVC SEPTIC TANK TO DOSING TANK, 2% MIN. SLOPE
2" SOLID PVC DOSING TANK TO D-BOX
 - DASHED LINE = EXISTING ELEVATION
 - SOLID LINE = PROPOSED ELEVATION
 - 4" PVC CAPPED INSPECTION PORTS @ EACH CORNER OF DISPOSAL FIELD
 - SEPTIC DESIGN IS CALCULATED AS FOLLOWS:
- COMMERCIAL USE: 0.125 GAL. PER GSF OF BUILDING
0.125 GAL. x 12,186.4 GSF (EXCLUDING SALLY PORT)
= 1,523.3 GPD

NOTES:

SITE NOT WITHIN FLOOD PLAIN AREA.

NO PARKING OR DRIVING WITHIN DISPOSAL AREA.

DISPOSAL BED NOT WITHIN WETLANDS OR WETLANDS BUFFER.

DISTANCE FROM SEPTIC SYSTEM TO WELL TO BE MIN. 100'

ALL TREES & STUMPS TO BE REMOVED WITHIN A 10 FT. RADIUS OF PROPOSED DISPOSAL FIELD.

ELEVATION OF SEWER LINE AT BUILDING HOLDS TRUE ONLY IF BUILDING IS BUILT IN LOCATION SHOWN ON THIS PLAN.

THIS MAP DOES NOT REPRESENT A LAND SURVEY AS DEFINED BY N.J.S.A. 45:8-28(e).

ALL CONSTRUCTION OF PROPOSED DISPOSAL MUST BE DONE IN COMPLIANCE WITH THE STANDARDS FOR INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEMS N.J.A.C. 7:9a AND ALL RULES AND REGULATIONS THERE TO APPURTENANT.

ANY MODIFICATION TO PLANS OR SPECIFICATIONS MADE WITHOUT APPROVAL OF THE ADMINISTRATIVE AUTHORITY SHALL RENDER THE ORIGINAL APPROVAL NULL AND VOID AND NEW APPLICATION SHALL BE REQUIRED.

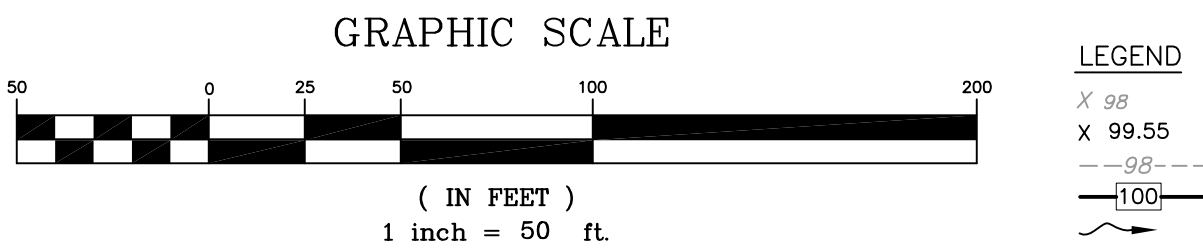
THE ADMINISTRATIVE AUTHORITY OR ITS AUTHORIZED AGENT MAY REQUIRE THE REVISION OF PLANS OR SPECIFICATIONS AS IT DEEMS NECESSARY IF CONDITIONS FOUND PRIOR TO OR DURING CONSTRUCTION WARRANT SUCH CHANGE IN ORDER TO OBTAIN CONFORMANCE WITH THE PROVISIONS OF N.J.A.C. 7:9a

BEFORE EXCAVATING IN PROJECT AREA, THE CONTRACTOR IS TO VERIFY THE LOCATION OF ANY UNDERGROUND UTILITY FACILITIES (GAS MAINS, ELECTRIC LINES, TELEPHONE LINES OR WATER MAINS, ETC.) SHOULD UNDERGROUND STRUCTURES OR FACILITIES INTERFERE WITH PROJECT CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY SUPERSNOOPER (1-800-272-1000) AT LEAST 72 HOURS BEFORE PROCEEDING WITH WORK.

SOIL LOGS AND INTERPRETATION PROVIDED WITH THIS APPLICATION WERE USED FOR THE DESIGN OF THE INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM SHOWN HEREON AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE.

IF SOIL CONDITIONS OR GROUND WATER DISCOVERED DURING CONSTRUCTION ARE DIFFERENT FROM FIELD TESTS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND ALL WORK SHALL STOP UNTIL THE ENGINEER AUTHORIZES WORK TO RESUME.

THE ENGINEER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY WORK ON THE SEPTIC SYSTEM.



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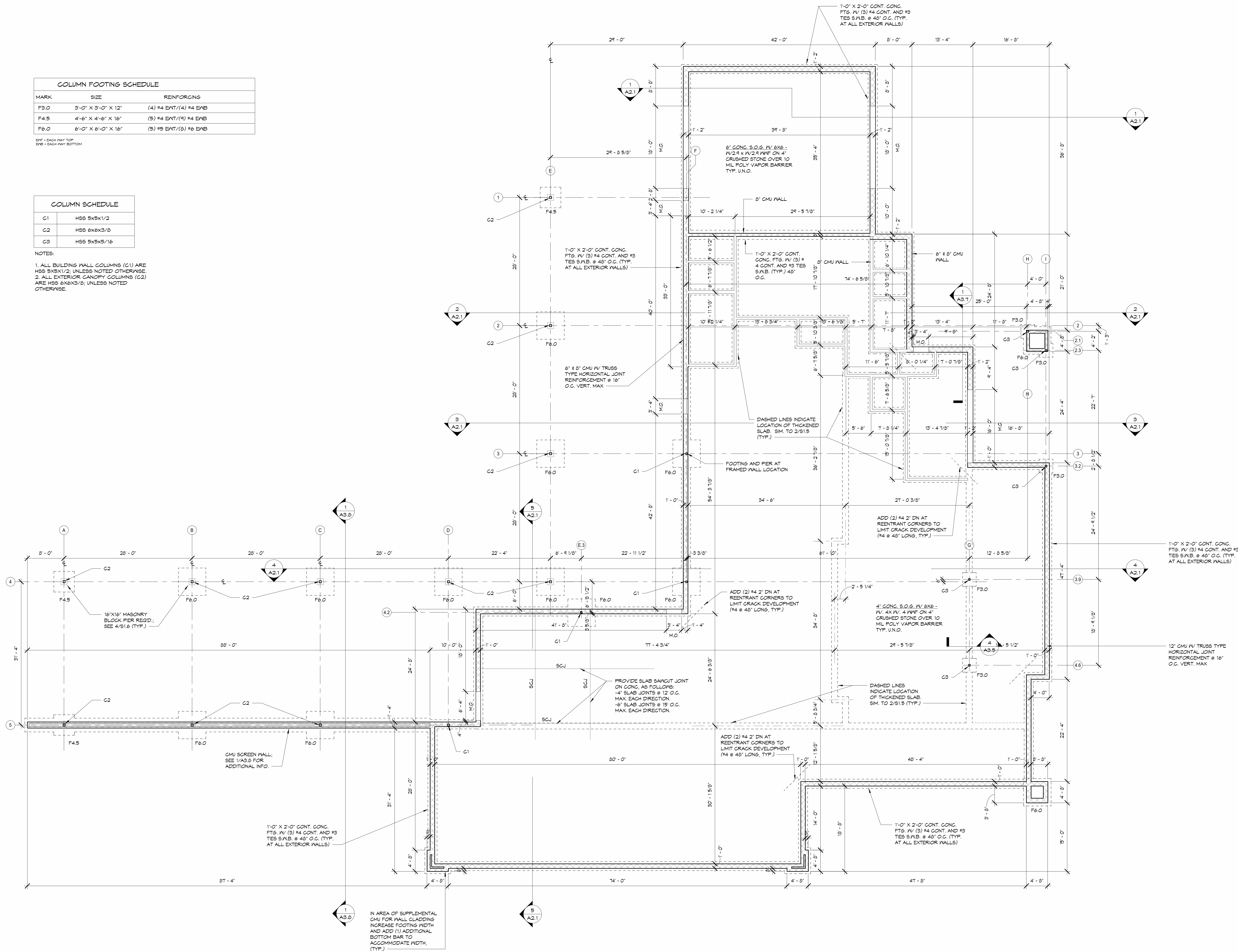
COLUMN FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F3.0	3'-0" X 3'-0" X 12"	(4) #4 EXT./ (4) #4 ENB
F4.5	4'-6" X 4'-6" X 16"	(3) #4 EXT./ (3) #4 ENB
F6.0	6'-0" X 6'-0" X 16"	(5) #5 EXT./ (5) #6 ENB

ENT - EACH WAY TOP
ENB - EACH WAY BOTTOM

COLUMN SCHEDULE	
C1	HSS 5x5x1/2
C2	HSS 6x6x3/8
C3	HSS 5x5x5/16

NOTES:

- ALL BUILDING WALL COLUMNS (C1) ARE HSS 5x5x1/2, UNLESS NOTED OTHERWISE.
- ALL EXTERIOR CANOPY COLUMNS (C2) ARE HSS 6x6x3/8, UNLESS NOTED OTHERWISE.



RELEASE / REVISION		
No.	Date	Description
1	12/14/23	RELEASED FOR REVIEW
2	1/16/24	RELEASED FOR BIDDING

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Peter W. Farrell AIA AI-13618

Project

**NJ STATE POLICE
TROOP A
PORT NORRIS**

2007 HIGHLAND ST, PORT NORRIS
COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183

Drawing

FOUNDATION PLAN

Scale	Job	Sheet
1/8" = 1'-0"	21.124	S1.0
Drawn	Date	
AA	12/14/2023	

FOUNDATION PLAN

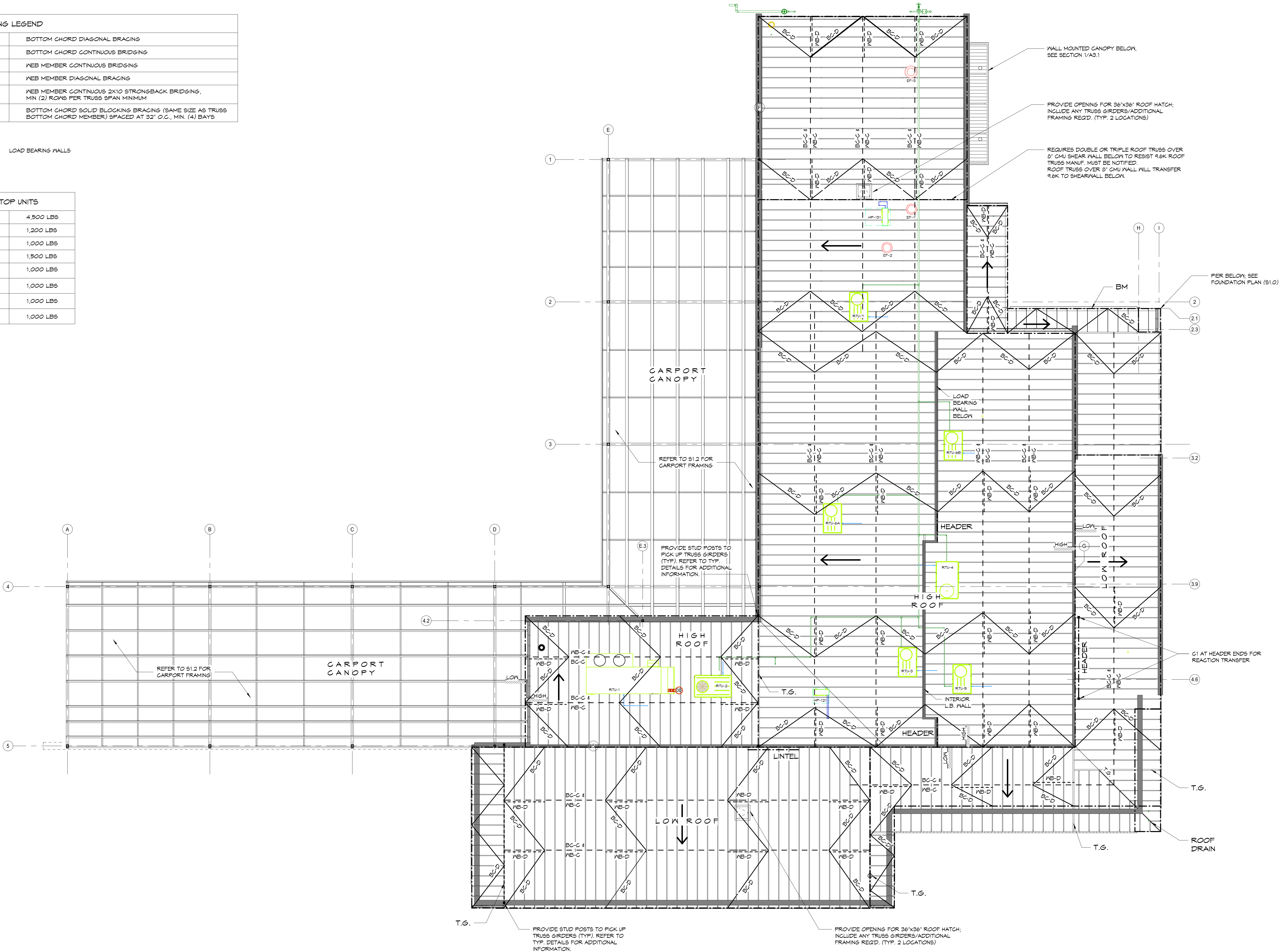
SCALE
1/8" = 1'-0"

1

BRACING LEGEND	
BC - D	BOTTOM CHORD DIAGONAL BRACING
BC - C	BOTTOM CHORD CONTINUOUS BRIDGING
MB - C	MEMBER CONTINUOUS BRIDGING
MB - D	MEMBER DIAGONAL BRACING
MB - S	MEMBER CONTINUOUS 2X10 STRONGBACK BRIDGING, MIN (2) ROWS PER TRUSS SPAN MINIMUM
SBB	BOTTOM CHORD SOLID BLOCKING BRACING (SAME SIZE AS TRUSS BOTTOM CHORD MEMBER) SPACED AT 32" O.C., MIN. (4) BAYS

LOAD BEARING WALLS

ROOF TOP UNITS	
RTU-1	4,500 LBS
RTU-2	1,200 LBS
RTU-3	1,000 LBS
RTU-4	1,500 LBS
RTU-5	1,000 LBS
RTU-6A	1,000 LBS
RTU-6B	1,000 LBS
RTU-7	1,000 LBS



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- NOTES:
- ADJUST ROOF TRUSS SPACING AND PROVIDE TRUSS GIRDERS AS REQ'D. AT ROOF HATCH OPENINGS (TYP. 2 LOCATIONS)
 - SEE ROOF PLAN DIVS A1.5 FOR ADDITIONAL INFORMATION.
 - GROUT CMU SOLID AT OVERHEAD DOOR TRACK LOCATIONS IN ACCORDANCE WITH OVERHEAD DOOR MANUFACTURERS RECOMMENDATIONS. (TYP)
 - GROUT SOLID REINFORCED CELLS IN CMU WALLS AT FOUNDATION LEVEL, WHERE WE TRANSITION BETWEEN DIFFERENT WIDTHS OF CMU FOUNDATION WALL MUST BE GROUTED SOLID. ALSO GROUT SOLID FULL HEIGHT AT BEAM AND LINTEL BEARING LOCATIONS.

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Drawing
**ROOF TRUSS FRAMING
PLAN**

Scale	Job	Sheet
1/8" = 1'-0"	21.124	S1.1
Drawn	Date	
AA	12/14/2023	1

ROOF TRUSS FRAMING PLAN

SCALE
1/8" = 1'-0"

1

RELEASE / REVISION

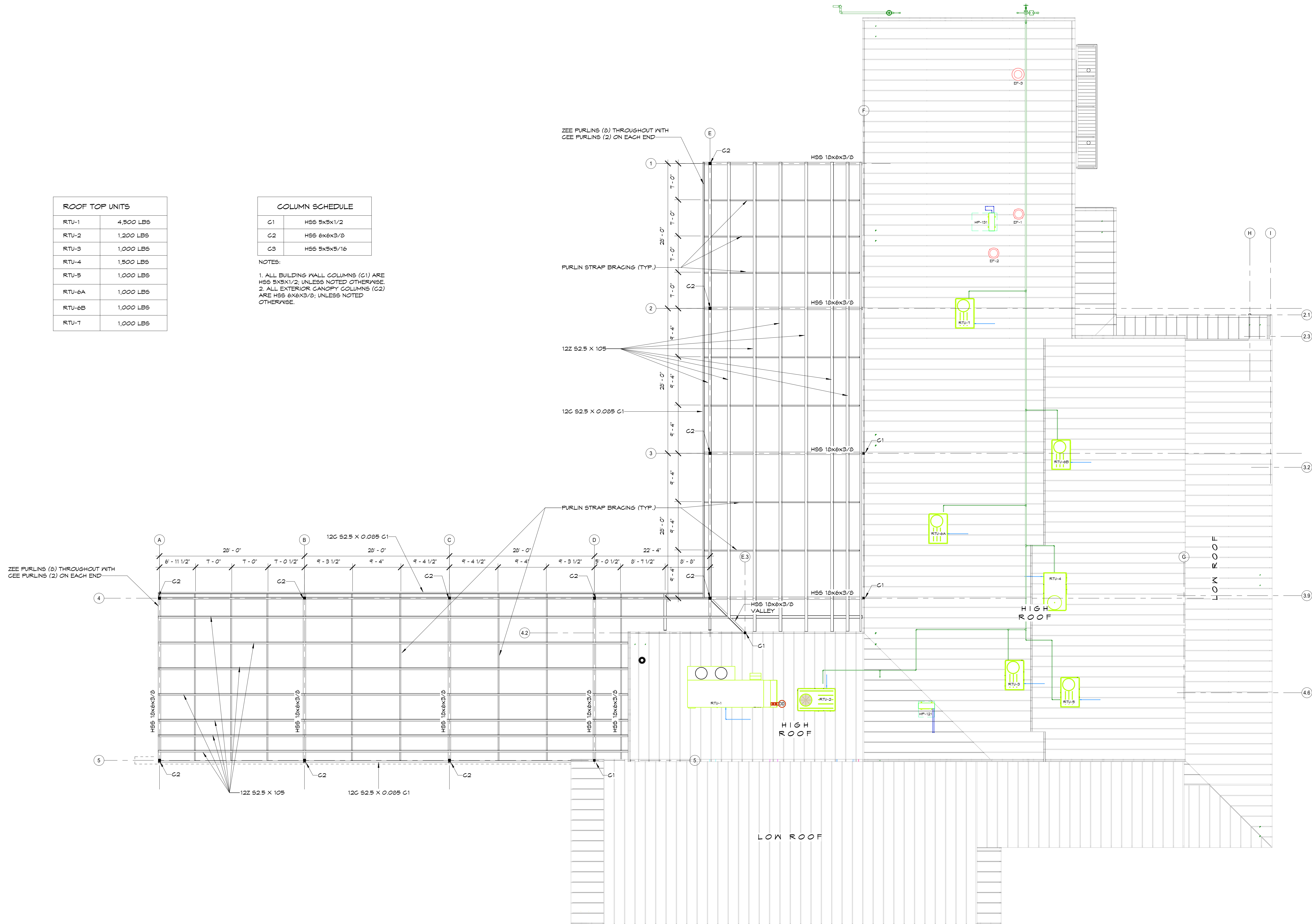
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ROOF TOP UNITS	
RTU-1	4,500 LBS
RTU-2	1,200 LBS
RTU-3	1,000 LBS
RTU-4	1,500 LBS
RTU-5	1,000 LBS
RTU-6A	1,000 LBS
RTU-6B	1,000 LBS
RTU-7	1,000 LBS

COLUMN SCHEDULE	
C1	HSS 5X5X1/2
C2	HSS 6X6X3/8
C3	HSS 5X5X5/16

NOTES:

1. ALL BUILDING WALL COLUMNS (C1) ARE HSS 5X5X1/2, UNLESS NOTED OTHERWISE.
2. ALL EXTERIOR CANOPY COLUMNS (C2) ARE HSS 6X6X3/8, UNLESS NOTED OTHERWISE.



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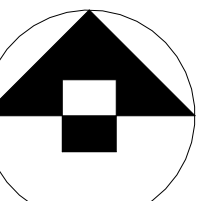
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Drawing

ROOF STRUCTURAL
PLAN



Scale

1/8" = 1'-0"

Job

21.124

Sheet

S1.2

Drawn

AA

Date

12/14/2023

ROOF STRUCTURAL PLAN

SCALE
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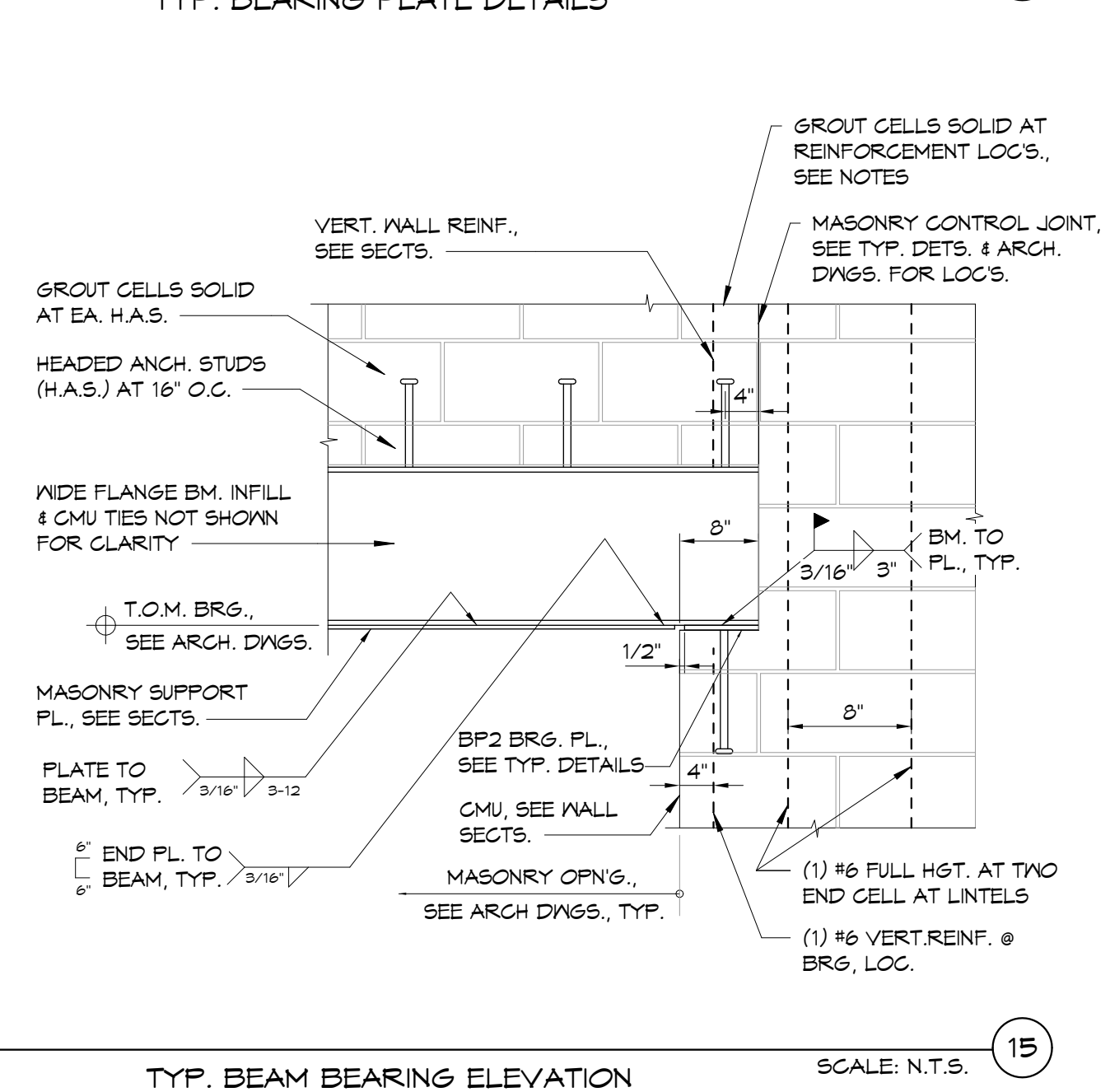
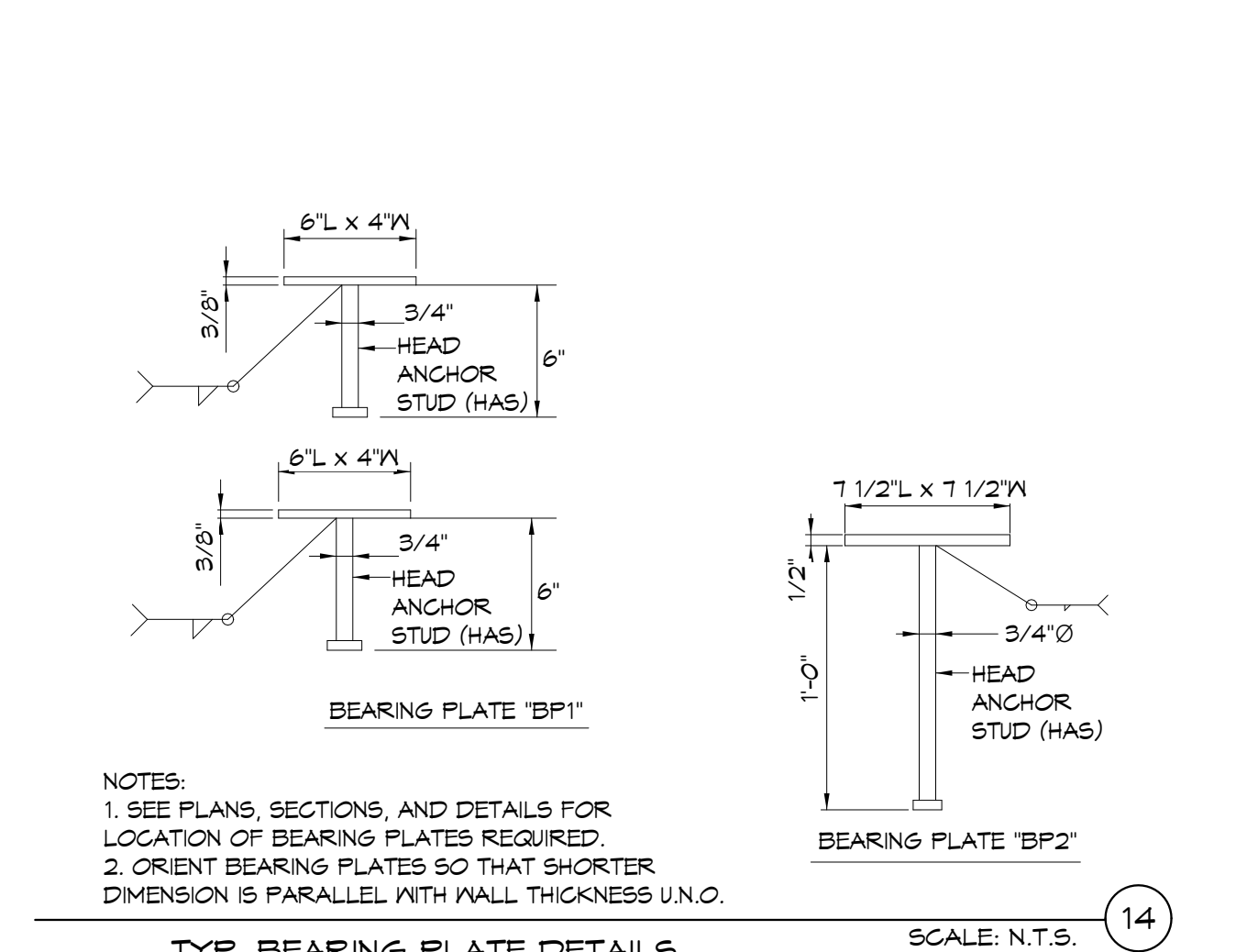
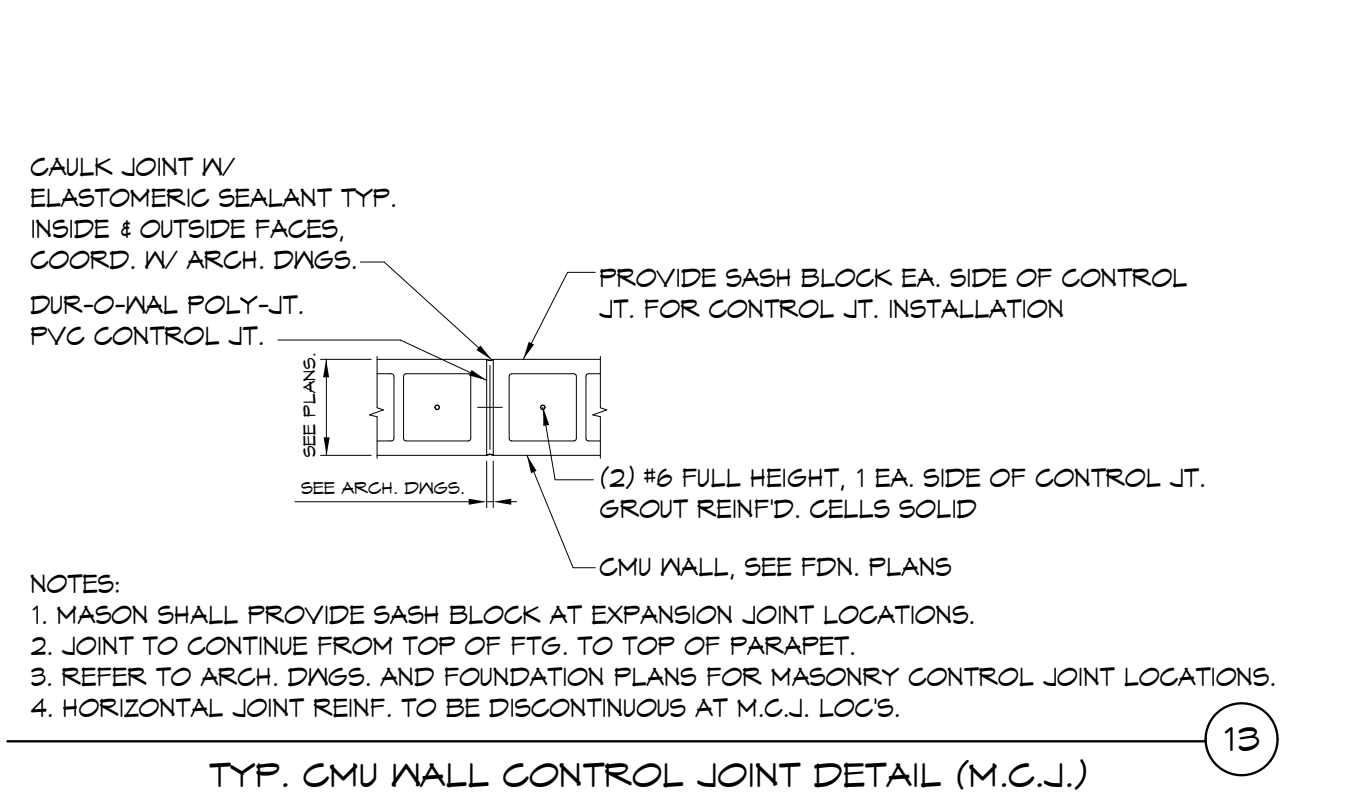
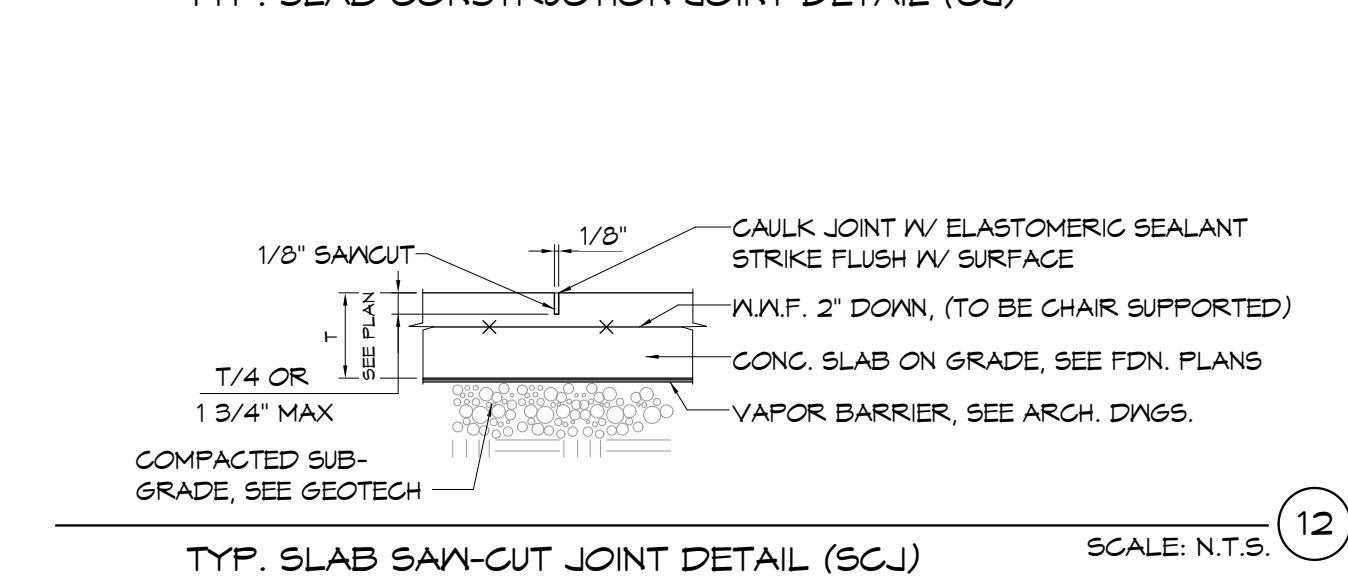
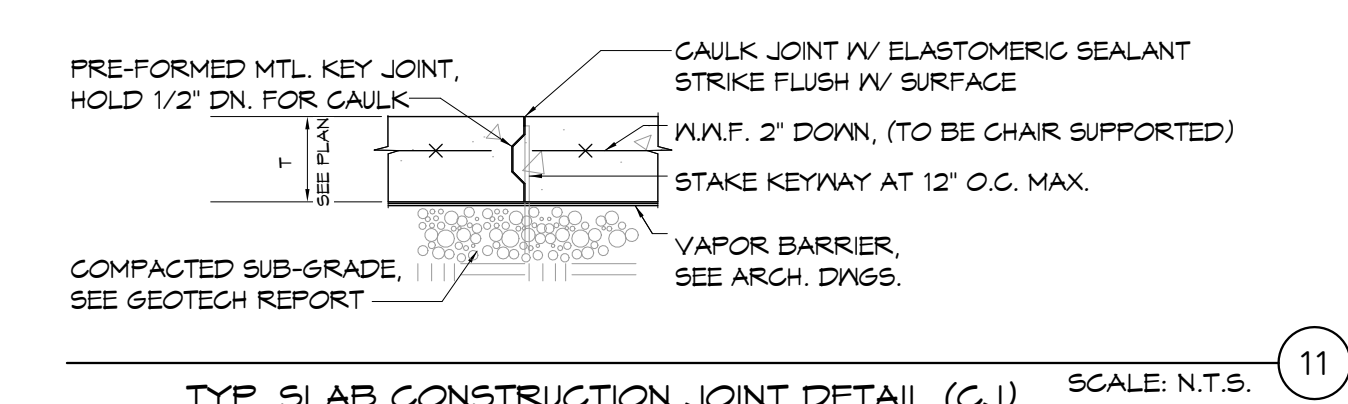
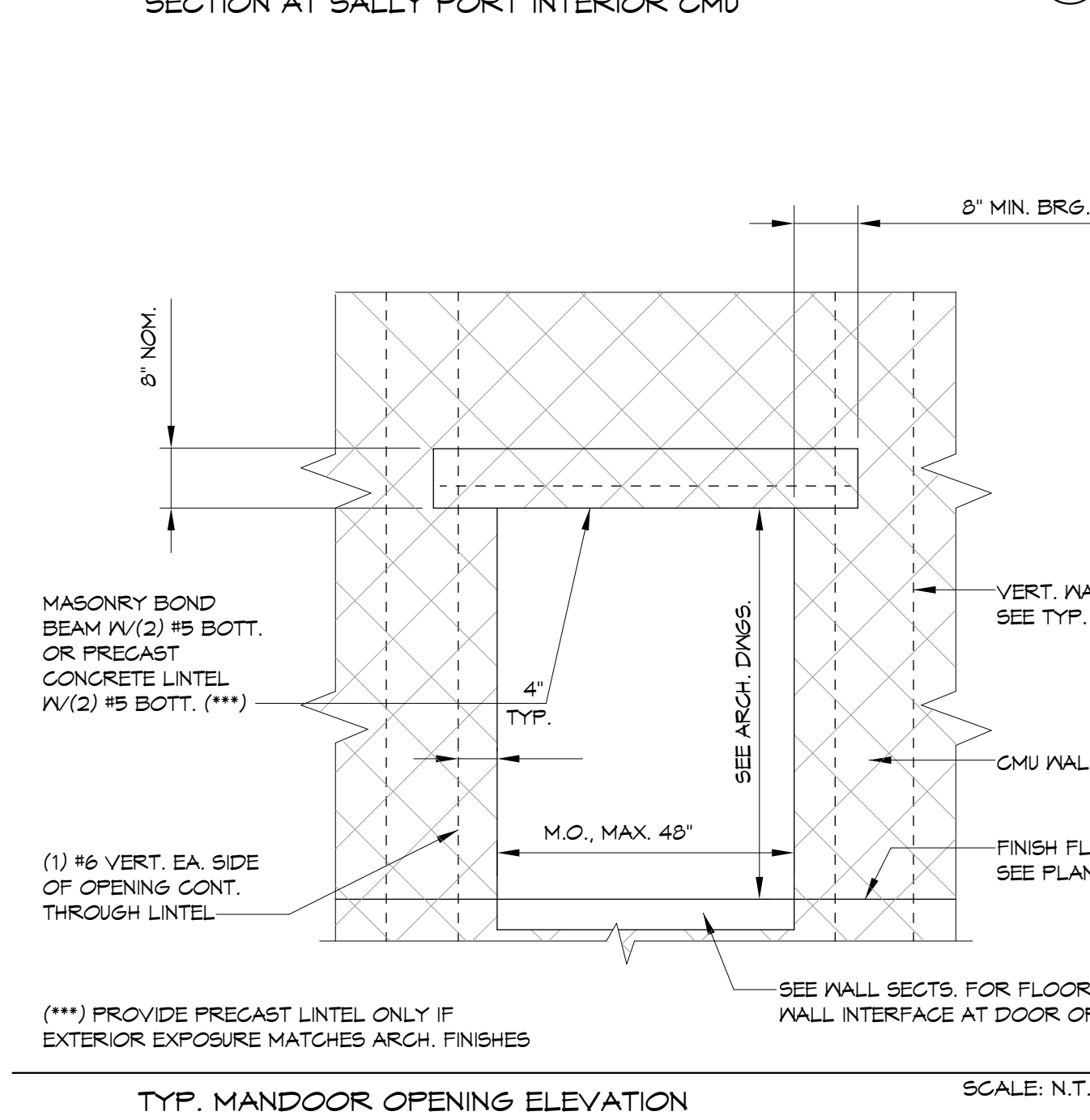
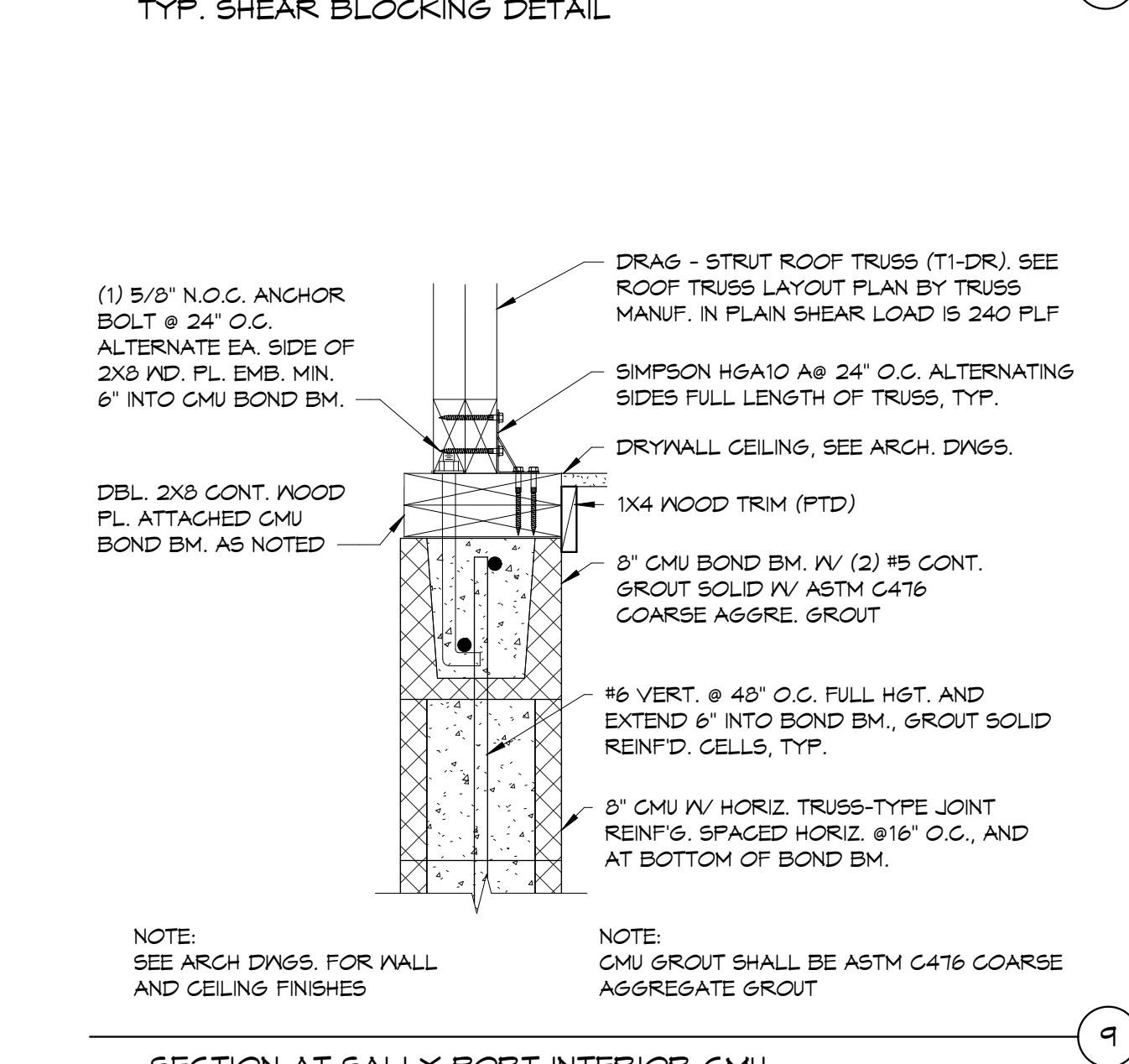
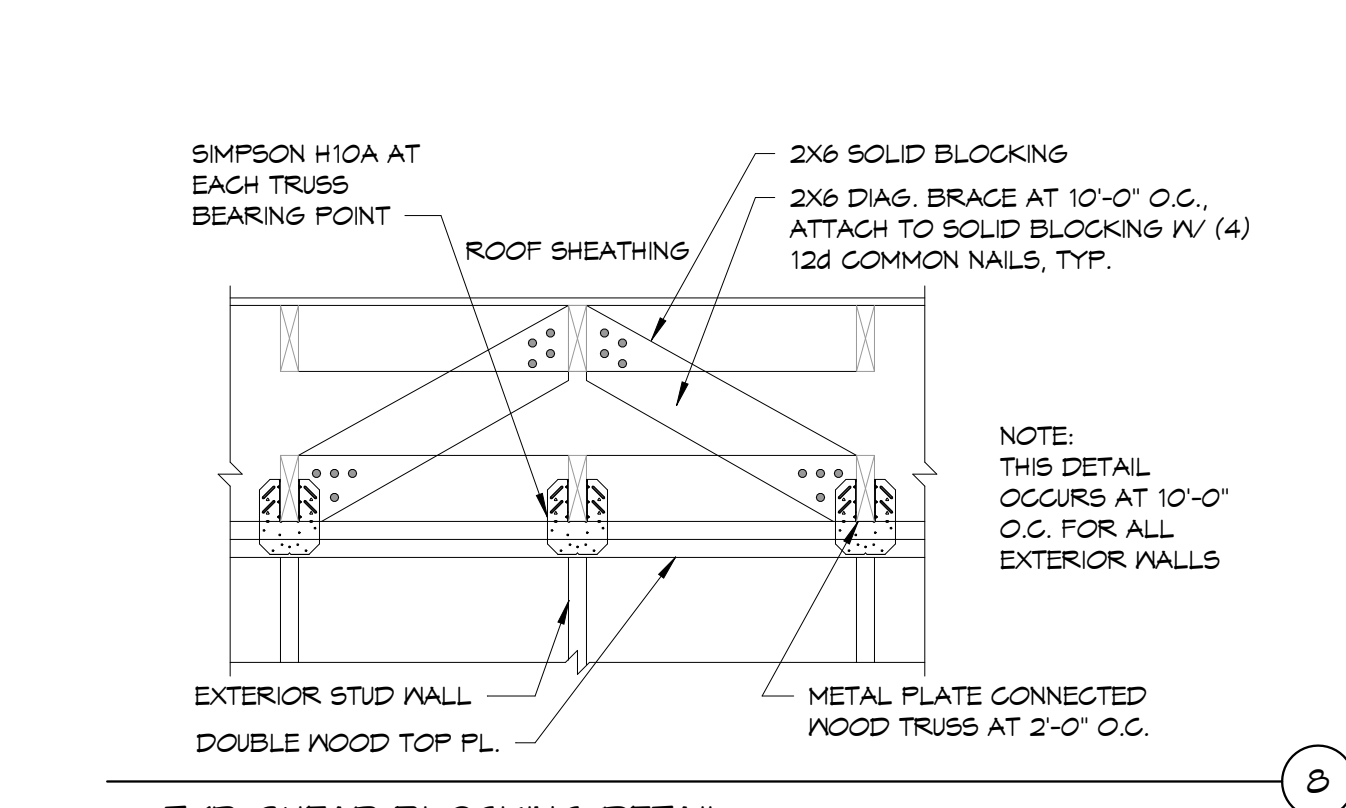
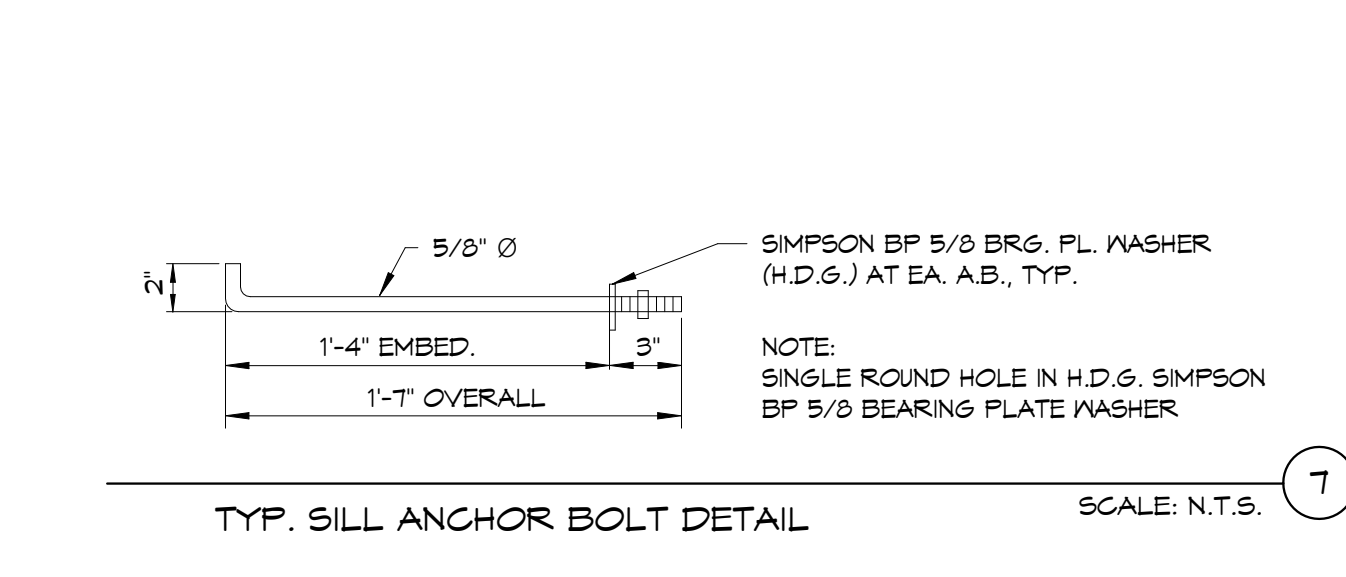
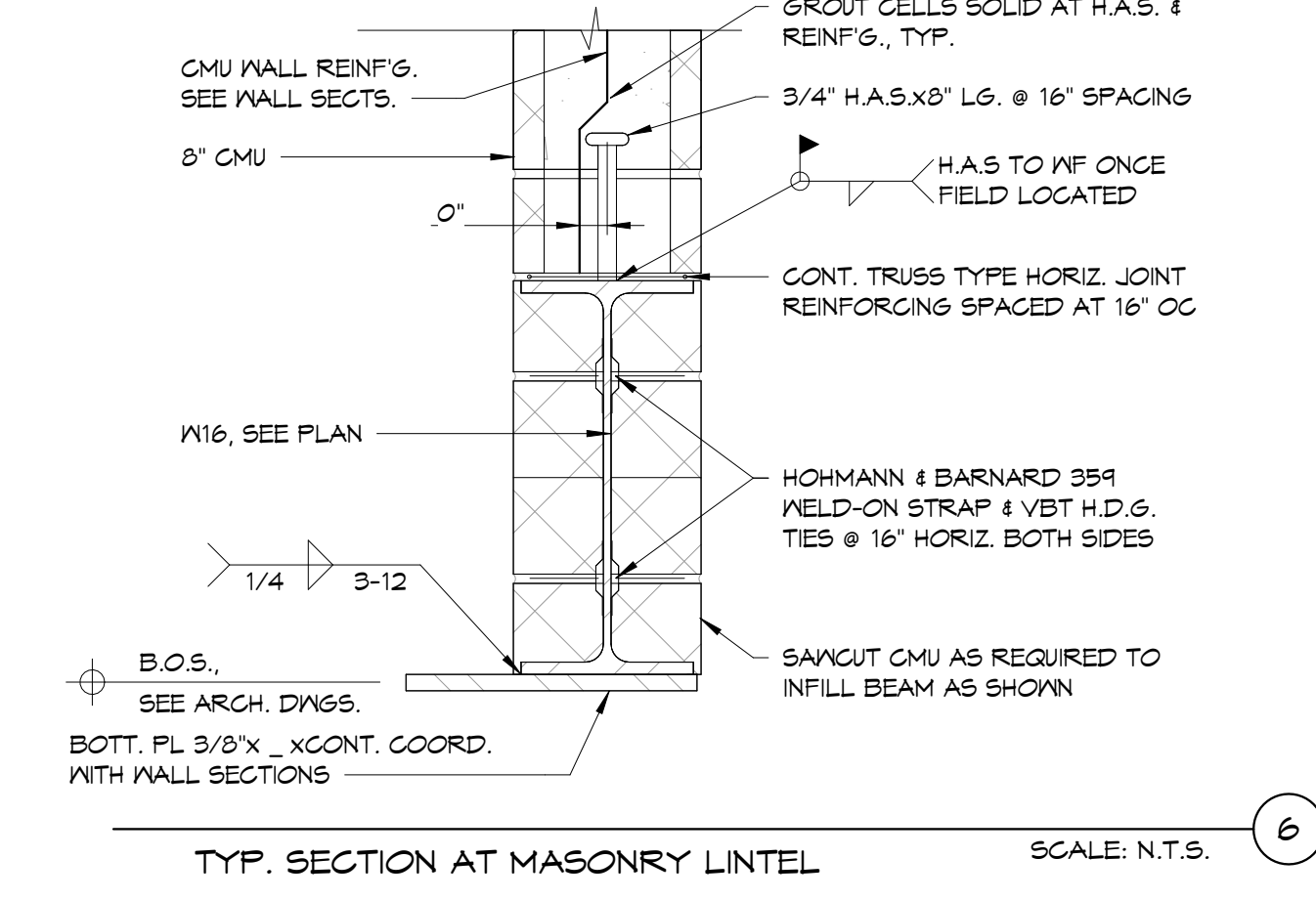
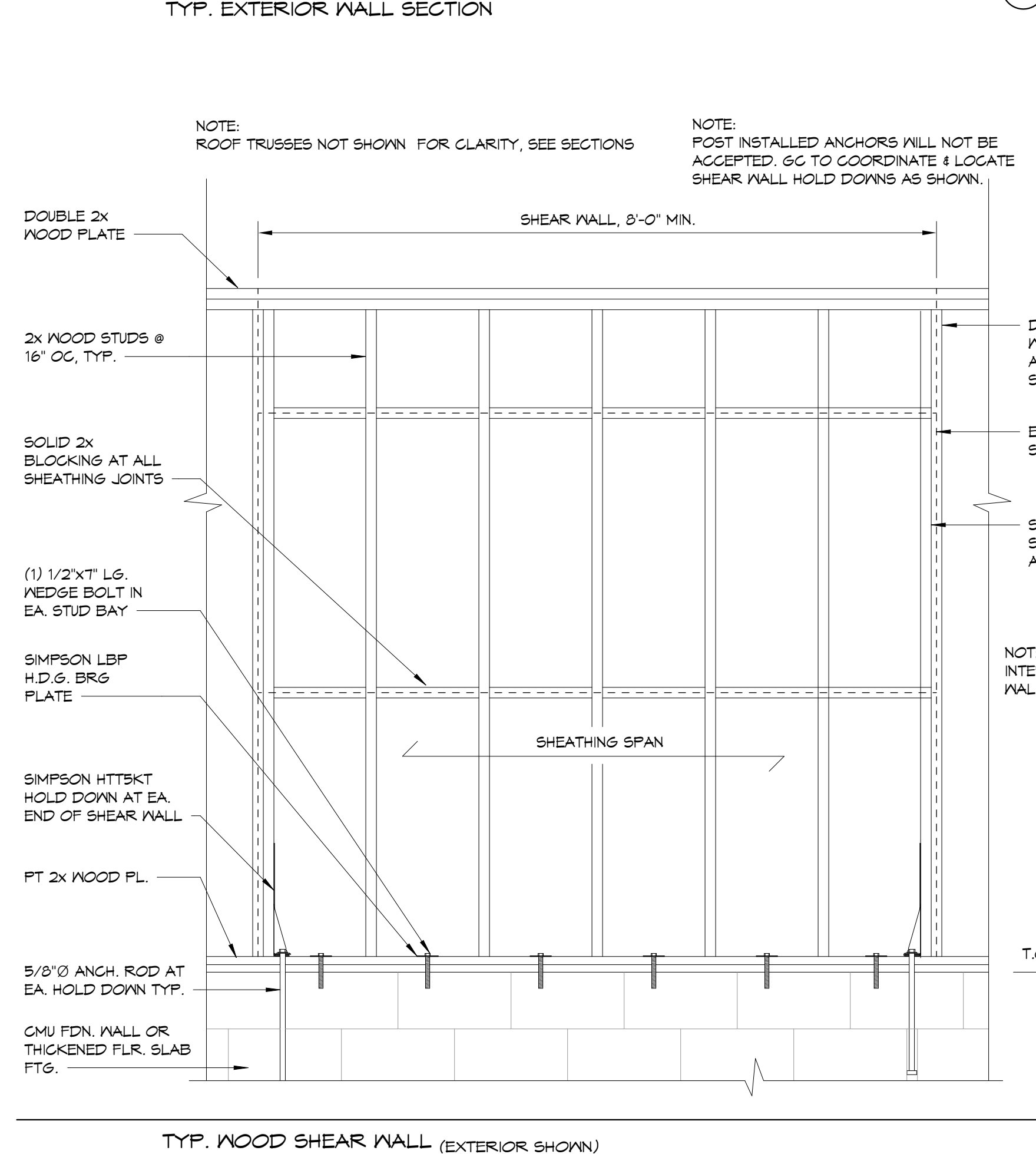
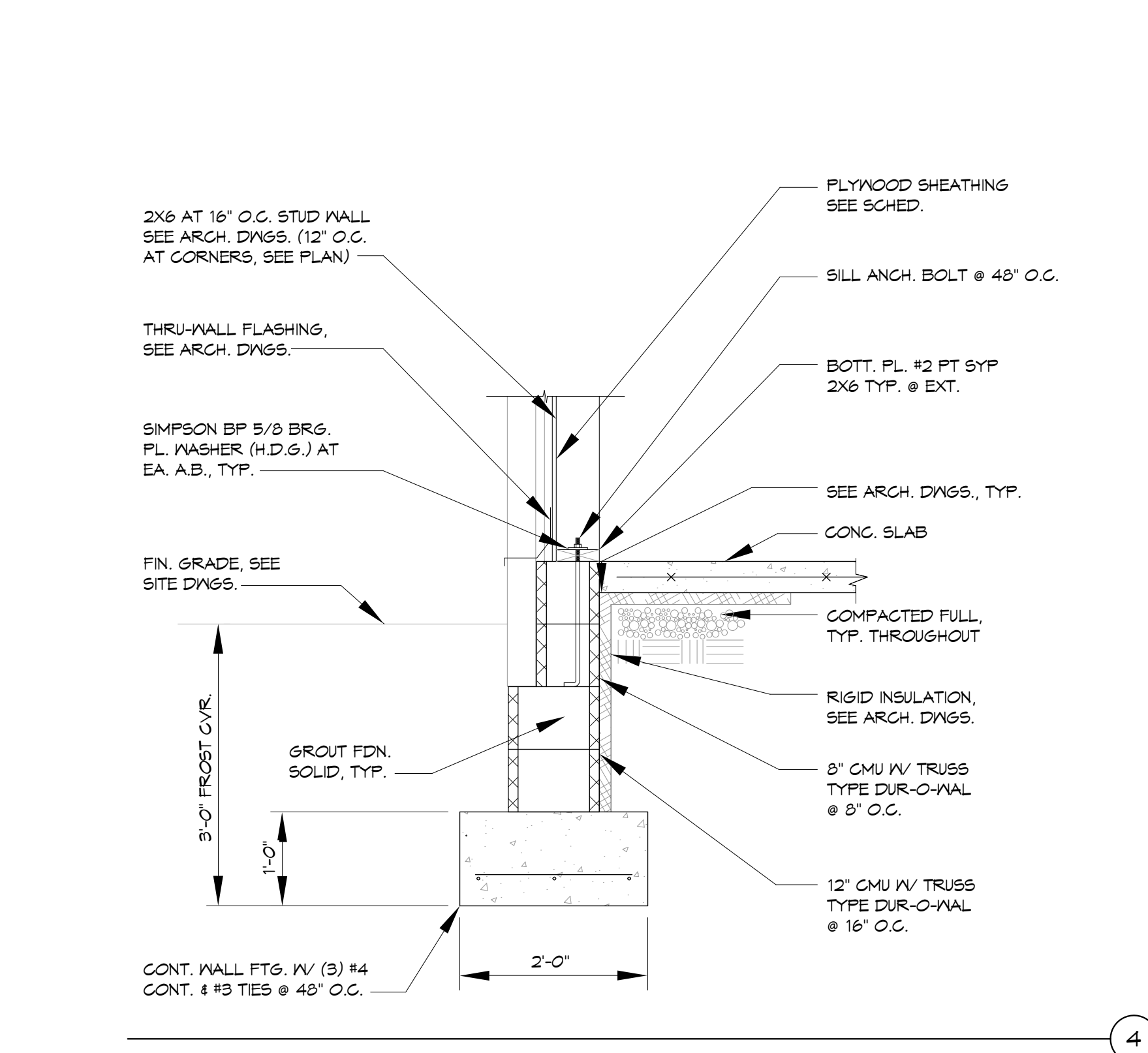
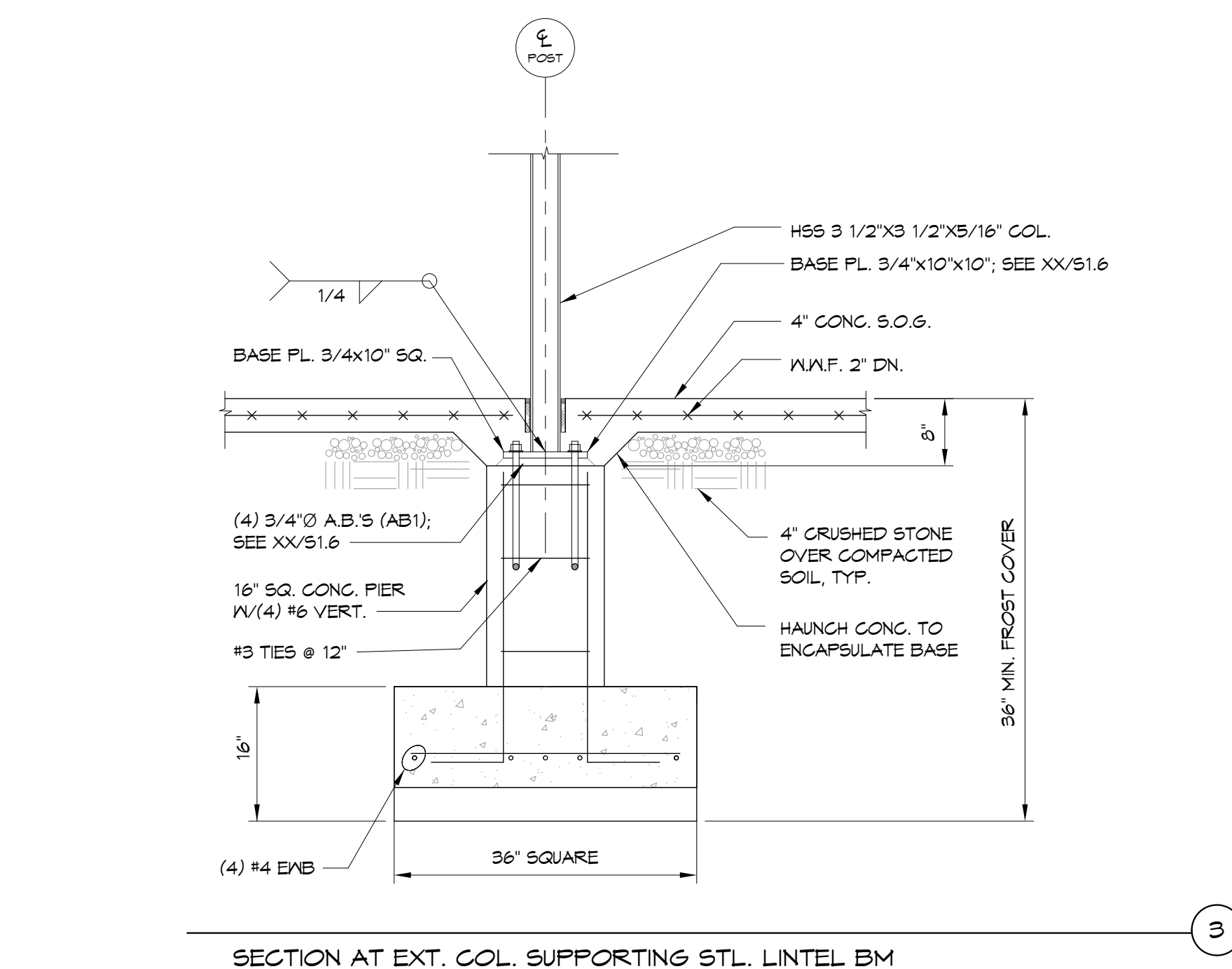
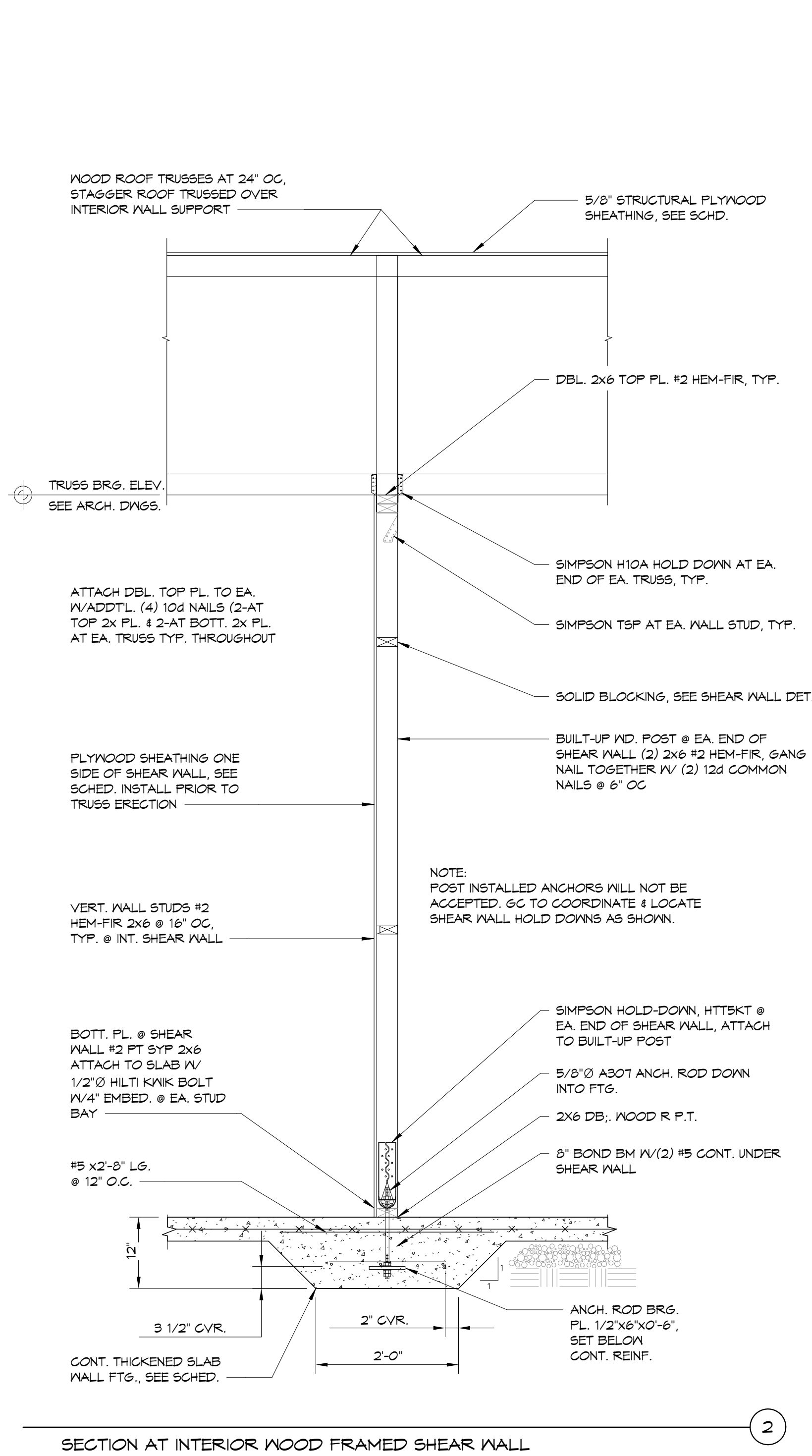
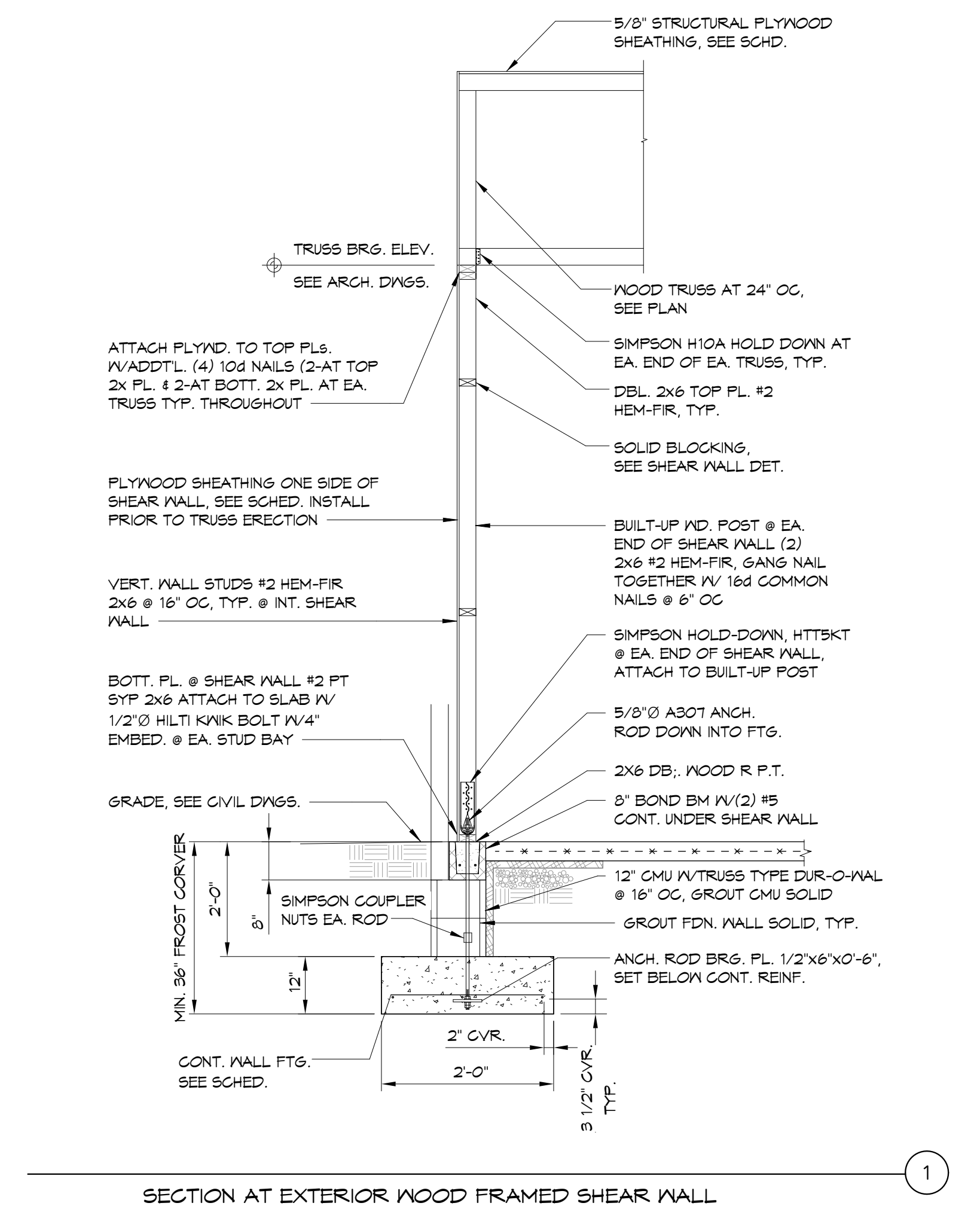
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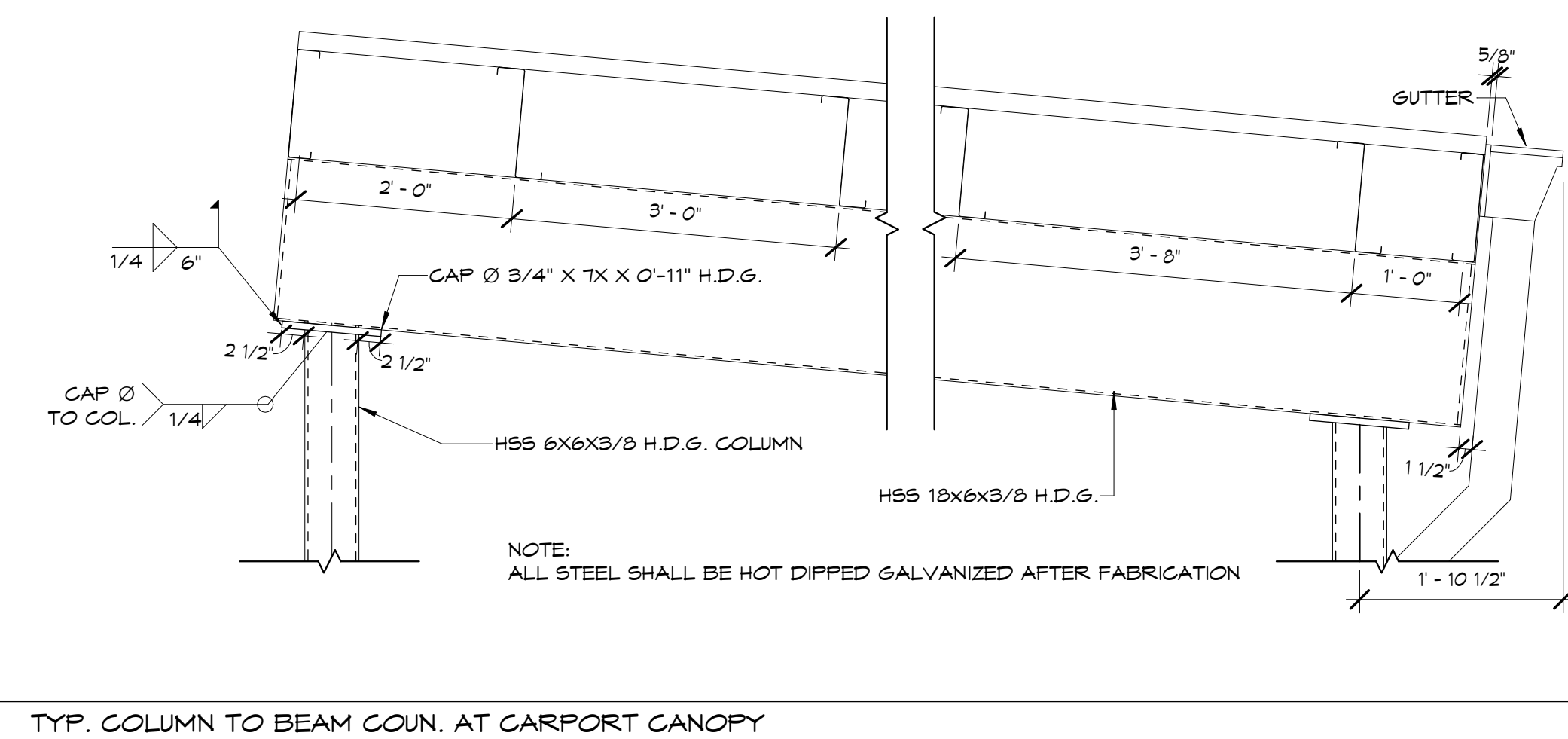
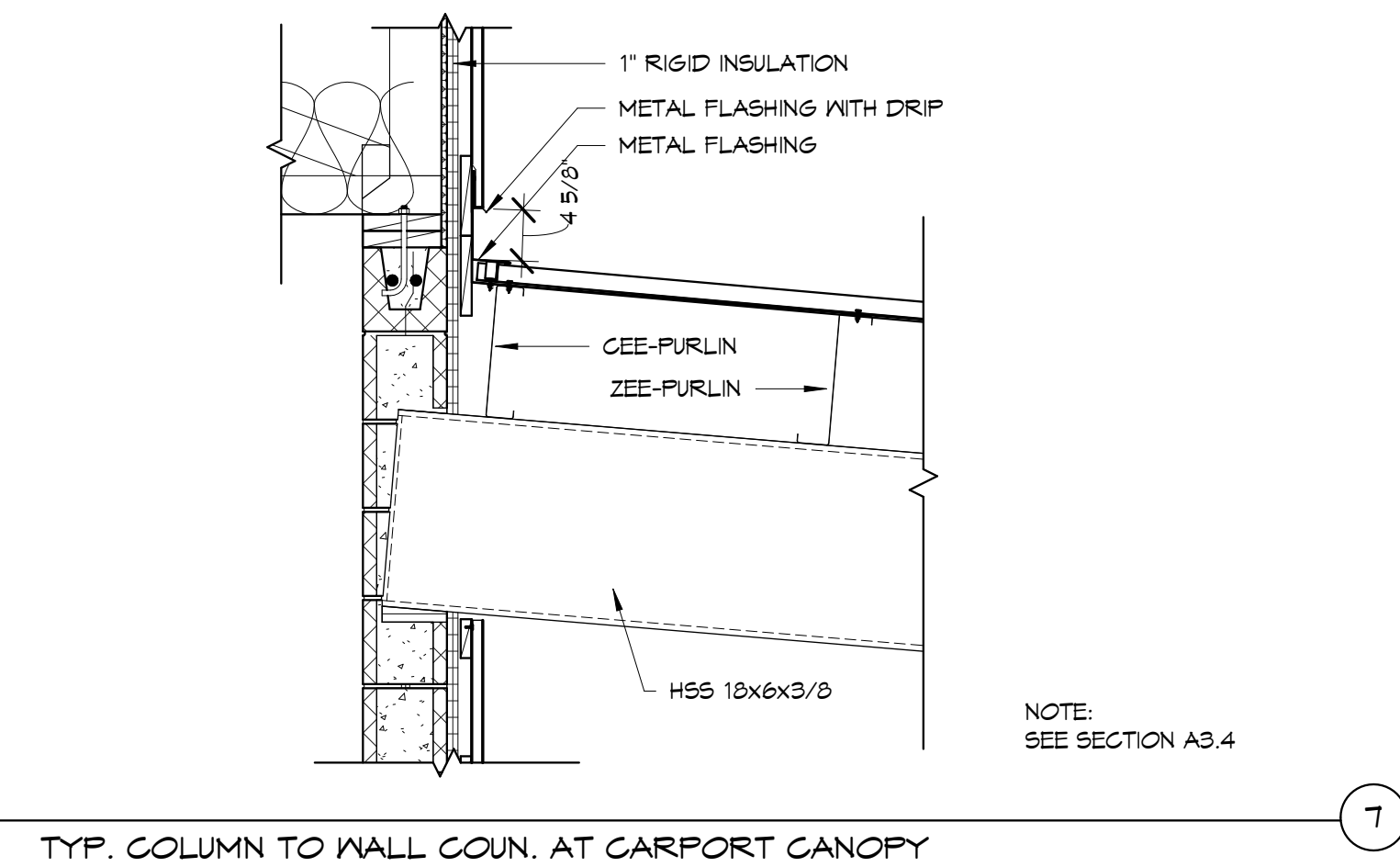
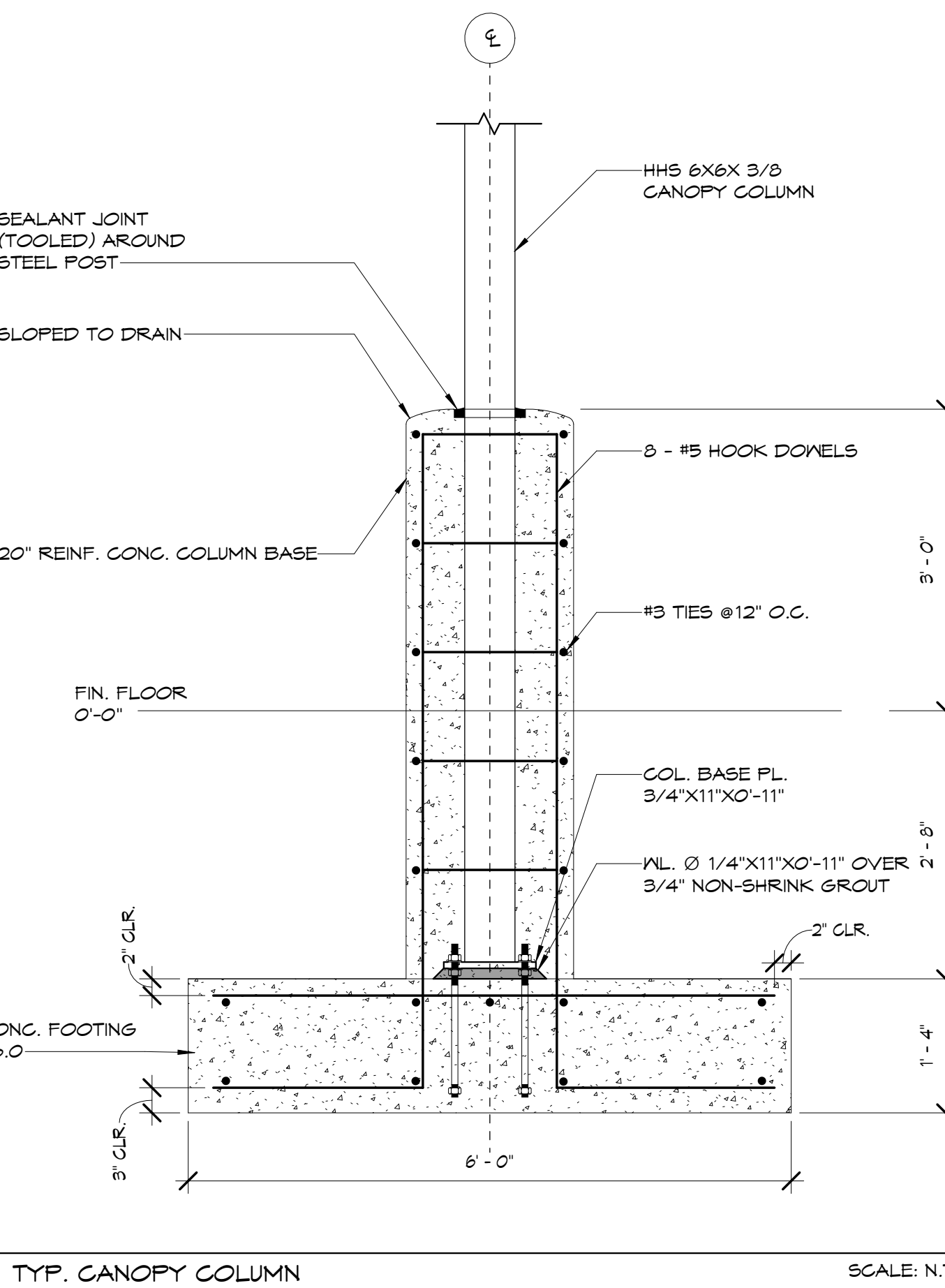
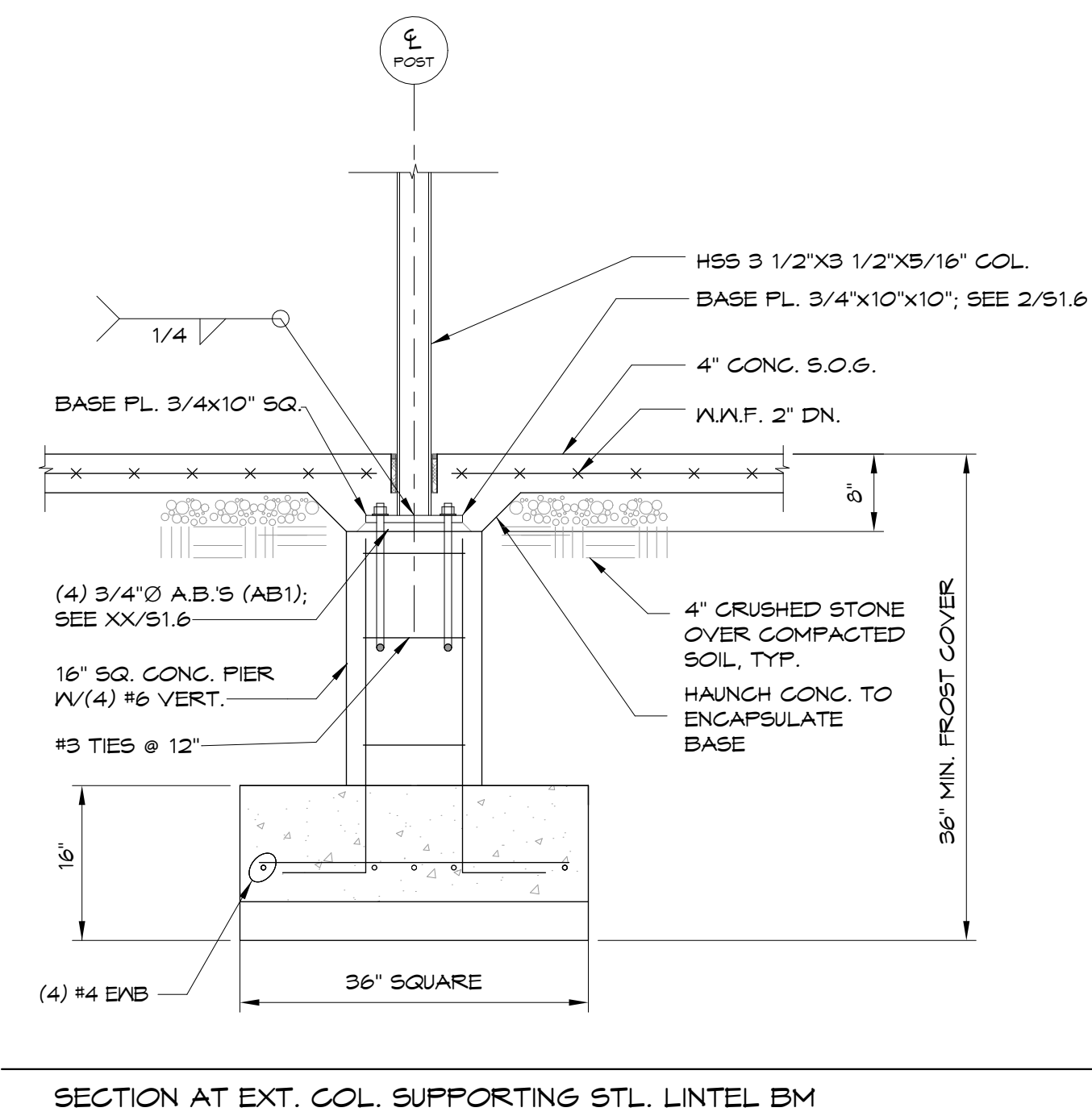
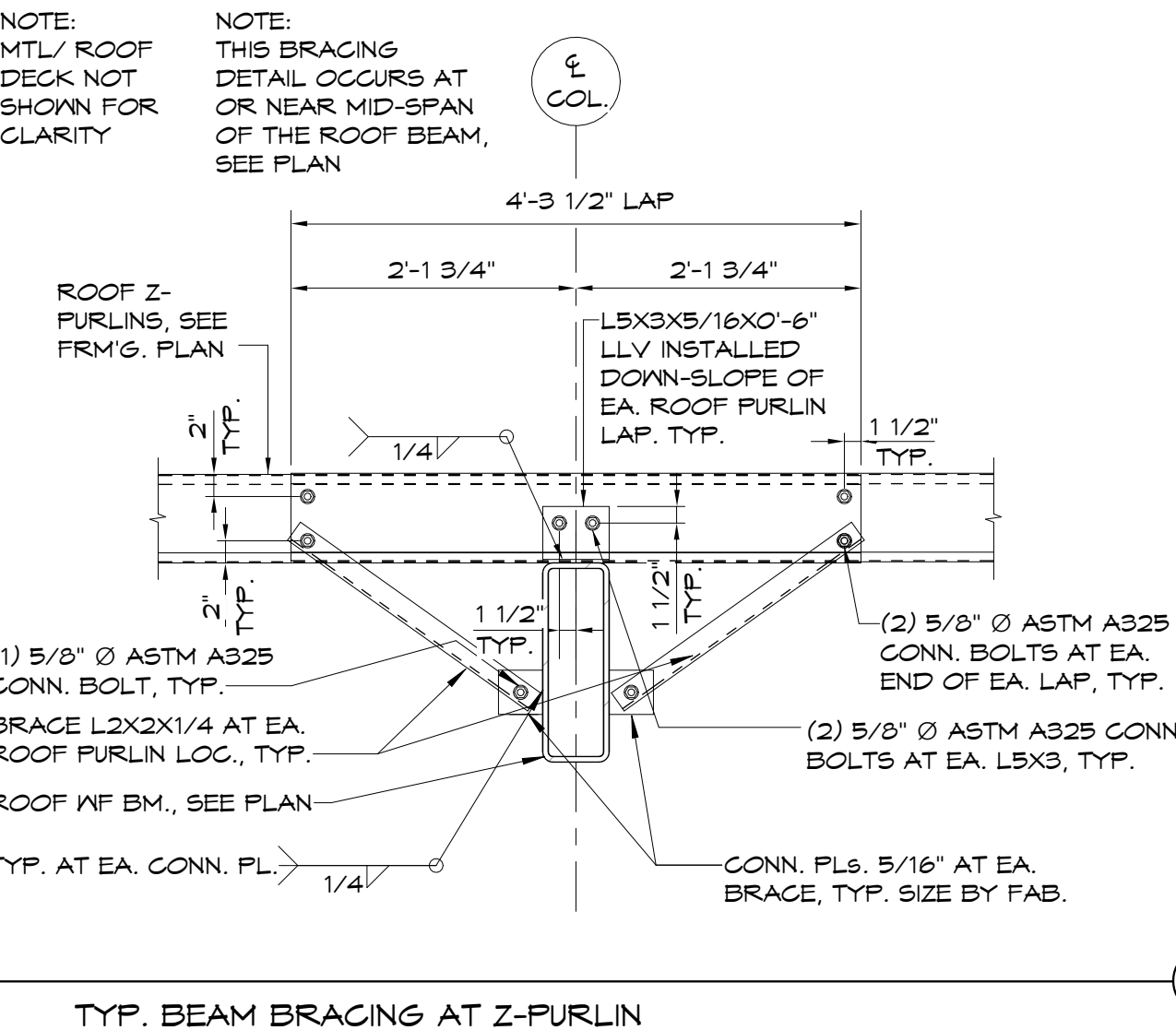
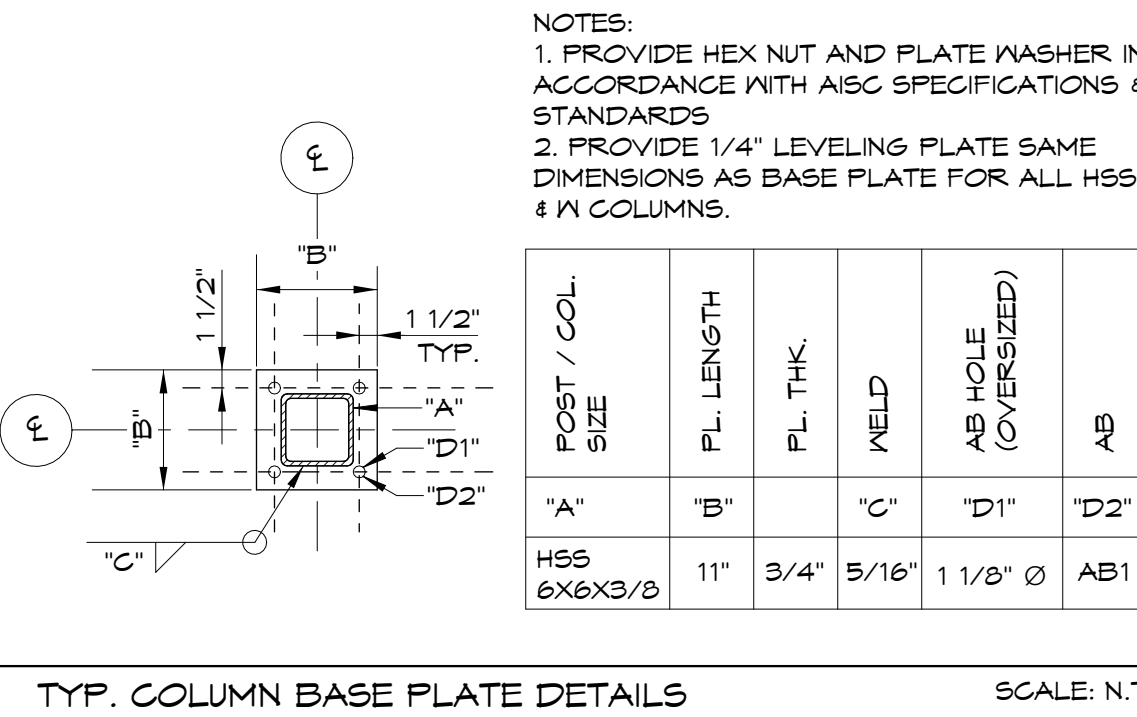
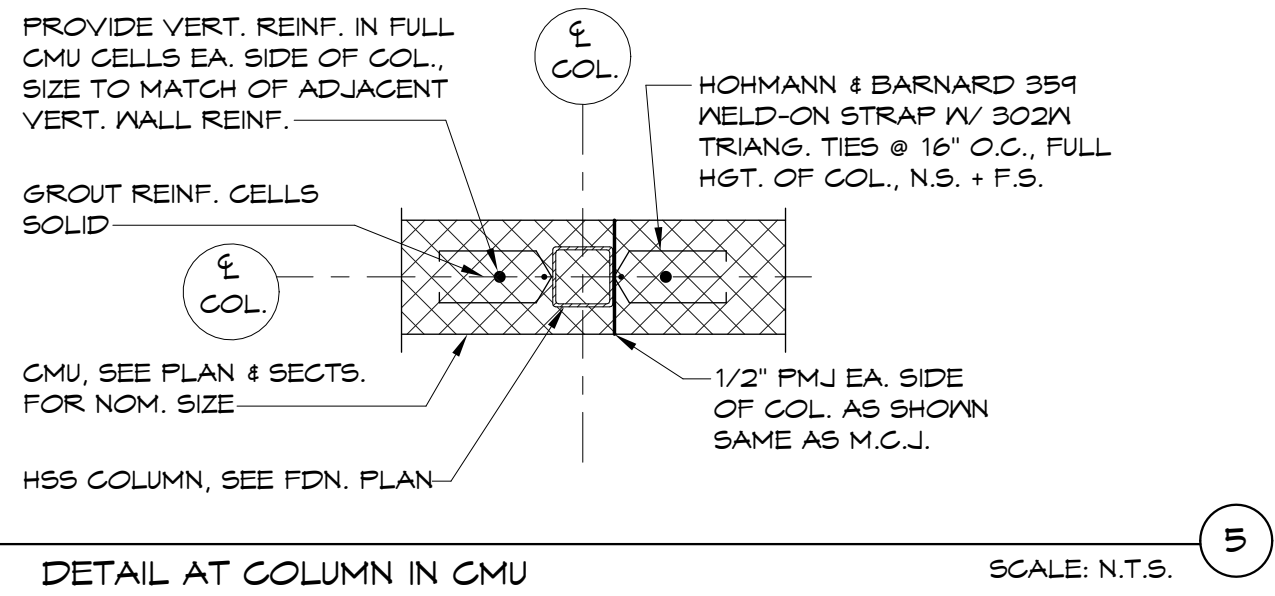
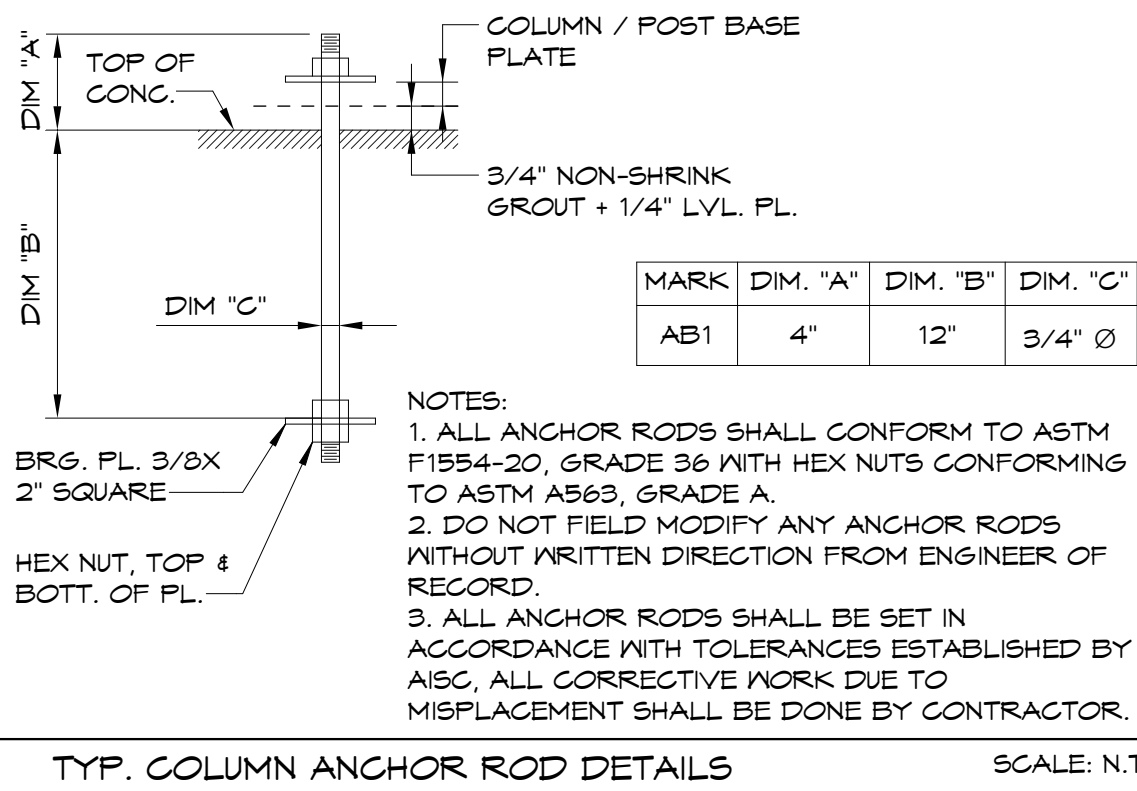
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LOT: 14 BLOCK: 183

Drawing

STRUCTURAL DETAILS

Scale	Job	Sheet
3/4" = 1'-0"	21.124	S1.5
Drawn	Date	
AA	12/14/2023	

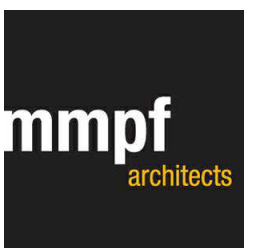


CODE INFORMATION - CARPORT CANOPY	
CODE: 2021 INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION 4 THE UNIFORM CONSTRUCTION CODE OF THE STATE OF NEW JERSEY	
1. PROPOSED OPEN CARPORT CANOPY STRUCTURE	
2. LIVE LOADS	
A. MINIMUM ROOF LIVE LOAD	20 PSF
3. SNOW LOADS	
A. GROUND SNOW LOAD	20 PSF
B. SURFACE ROUGHNESS CATEGORY	B
C. RISK CATEGORY	IV
D. SNOW IMPORTANCE FACTOR	1.2
E. EXPOSURE FACTOR (C _e)	1.2
F. THERMAL FACTOR (C _t)	1.2
G. FLAT ROOF SNOW LOAD (P _f)	25 PSF
H. RAIN-ON-SNOW SURCHARGE	5 PSF
I. SNOW DRIFT (MAXIMUM SURCHARGE)	60 PSF
J. SNOW DRIFT LENGTH	15'-0"
4. WIND LOADS	
A. BASIC WIND SPEED (V _W)	130 MPH
B. RISK CATEGORY	IV
C. SURFACE ROUGHNESS CATEGORY	C
D. EXPOSURE CATEGORY	C
E. DESIGN WIND PRESSURES (LIMIT STATE LEVEL VALUES LISTED BELOW)	
MAIN WIND FORCE RESISTING SYSTEM (CARPORT CANOPY)	
1. ROOF POSITIVE WIND (DOWNWARD)	32 PSF
2. ROOF NEGATIVE WIND (UPLIFT)	-32 PSF
COMPONENTS & CLADDING (CARPORT CANOPY)	
1. ROOF	
ZONE 1 - FIELD	-30, -30 PSF
ZONE 2 - PERIMETERS	-34, -36 PSF
ZONE 3 - CORNERS	-34, -36 PSF
5. EARTHQUAKE LOADS (CARPORT CANOPY)	
A. SEISMIC SITE CLASS	1C
B. HAPPED SPECTRAL ACCELERATION (S _{0.1})	0.10/0.128
C. HAPPED SPECTRAL ACCELERATION (1 sec)	0.10/0.041
D. ACCELERATION BASED SITE COEFFICIENT	1.0/1.0
E. VELOCITY BASED SITE COEFFICIENT	1.0/1.0
F. MCEP SPECTRAL RESPONSE ACCEL. (short period)	0.10/0.207
G. MCEP SPECTRAL RESPONSE ACCEL. (1 sec. period)	0.10/0.040
H. DESIGN SPECTRAL RESPONSE ACCEL. (short period)	0.20/0.130
I. DESIGN SPECTRAL RESPONSE ACCEL. (1 sec. period)	0.20/0.028
J. SEISMIC DESIGN CATEGORY (short period)	SDC3-A
K. SEISMIC DESIGN CATEGORY (1 sec. period)	SDC3-A
L. BASIC STRUCTURAL SYSTEM: STEEL FRAMED CANOPY STRUCTURE	
M. SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE	
N. RESPONSE MODIFICATION COEFFICIENT (R)	3.0
O. OVER STRENGTH FACTOR	3.0
P. DEFLECTION AMPLIFICATION FACTOR (C _d)	3.0
Q. SEISMIC RESPONSE COEFFICIENT (C _s)	0.048
R. SEISMIC IMPORTANCE FACTOR (I _e)	1.50
S. ANALYSIS METHOD: EQUIVALENT LATERAL FORCE (Section 12.0)	

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Drawing		
STRUCTURAL DETAILS		
Scale	Job	Sheet
3/4" = 1'-0"	21.124	S1.6
Drawn	Date	
AA	12/14/2023	

NOTES:

1. GO TO PROVIDE / INSTALL SOLID WOOD BLOCKING FOR THE SUPPORT OF ALL ACCESSORIES, MONITORS, TACKBOARDS, TELEVISIONS, SHELVING, ETC. AS REQUIRED.
2. SEE SITE PLAN DRAWINGS FOR ADDITIONAL INFORMATION ON ALL SIDEWALKS, CURBS, PADS, ETC.
3. PROVIDE WOOD BLOCKING FOR THE SUPPORT OF OWNER SUPPLIED SHELVING IN THE FOLLOWING ROOMS:
 - (a) SPECIALTY EQUIPMENT - 103
 - (b) STORAGE - 122
 - (c.) EVIDENCE STORAGE - 121

COORDINATE FINAL LOCATION WITH OWNER.

3. IN ALL HOLDING AND INTERVIEW ROOMS
 PROVIDE / INSTALL TITEBOND, SOUND SEALANT
 ADHESIVE AT FLOOR GAPS AND WALL
 PENETRATIONS ABOVE A.C.T. TILE AS REQUIRED.
 ALSO, INSTALL METACALK PUTTY AND PUTTY PADS
 AROUND ALL LIGHT SWITCHES AND OUTLET COVERS
 TO LIMIT SOUND TRANSFER. IN ROOMS WITH G.V.E.I.,
 PROVIDE / INSTALL QUIET ROCK - 5/8" (EZ SNAP)
 SOUND REDUCING DRYWALL PANELS, TAPE AND
 FINISH IS REQUIRED AND EXTENDED TO UNDERSIDE
 OF ROOF TRUSSES ABOVE.

7. GENERAL CONTRACTOR TO PROVIDE SURFACE MOUNTED REMOTE KEYPAD OPERATOR AT THE INTERIOR AND EXTERIOR OF EACH OVERHEAD DOOR LOCATED AT THE SALLY PORT AND AT THE SLIDING ACCESS GATE TO THE REAR PARKING AREA. OPERATOR TO BE MANUFACTURED BY LIFTMASTER, MODEL NO. KPR 2000 OR APPROVED EQUAL. COORDINATE ELECTRICAL REQUIREMENTS AND COMPATIBILITY WITH OVERHEAD DOOR AND GATE MANUFACTURER. SEE SITE PLAN DRAWINGS AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION FOR EACH OPERATOR WITH OWNER.

B. PROVIDE TACKBOARDS AND MARKER BOARDS
IN THE FOLLOWING LOCATIONS:

- A. LOBBY/WAITING - 100: 12 TB
- B. SUPPORT OFFICE - 108: (2) 4' MB
- C. WOMEN'S LOCKER ROOM - 112: 6' TB
- D. MEN'S LOCKER ROOM - 116: 6' TB
- E. CORRIDOR #2 - 119: (2) 6' MB
- F. CONFERENCE RM - 123: 12' MB
- G. DETECTIVES - 125: (2) 6' TB, (1) 8' TB

9. GROUT CMU SOLID AT OVERHEAD DOOR TRACK LOCATIONS IN ACCORDANCE WITH OVERHEAD DOOR MANUFACTURERS RECOMMENDATIONS. (TYP)

10. GROUT SOLID REINFORCED CELLS IN CMU WALLS. AT FOUNDATION LEVEL, WHERE WE TRANSITION BETWEEN DIFFERENT WIDTHS OF CMU FOUNDATION WALL MUST BE GROUTED SOLID. ALSO GROUT SOLID FULL HEIGHT AT BEAM AND LINTEL BEARING LOCATIONS.

11. G.C. TO PROVIDE/INSTALL A 4'X8'X3/4" THICK PAINTED PLYWOOD PHOTO BOARD, COLOR SELECTIONS AND FINAL LOCATION BY OWNER IN ARREST PROCESSING AREA - 132.

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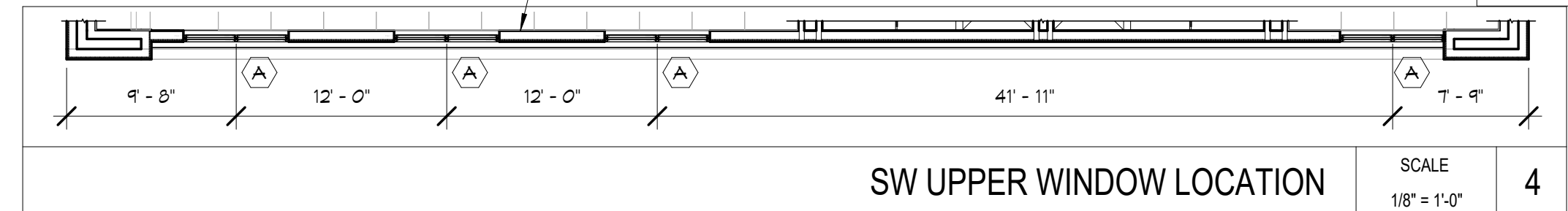


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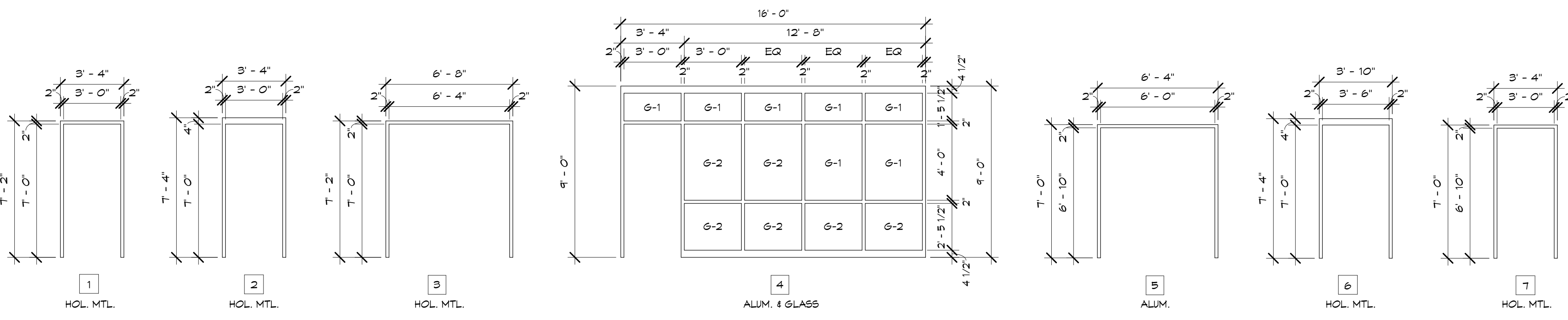
Drawing	
FLOOR PLAN	

		
Scale 1/8" = 1'-0"	Job 21.124	Sheet A1.0
Drawn AA, GB	Date 12/14/2023	



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DOOR SCHEDULE												
NO.	DOOR				FINISH	TYPE	FRAME			HARDWARE SET	COMMENTS	
	WIDTH	HEIGHT	THICKNESS	TYPE			FRAME MATERIAL	FRAME FINISH				
100-1	3' - 0"	7' - 0"	1 3/4"	AG	ALUM 3 GLASS	MFR	4	ALUM 4 GLASS	MFR	5	LEVEL 4 BULLET RESISTANT DOOR 4 FRAME	
101-1	3' - 0"	7' - 0"	1 3/4"	BR	HOL. MTL.	FTD	2	HOL. MTL.	PTD	11		
103-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	13		
104-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	1		
107-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	1		
103-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	1		
104-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	1		
110-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	1		
111-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	4		
113-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	4		
114-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	2	HOL. MTL.	PTD	3.1		
115-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	4		
117-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	4		
118-1	6' - 0"	7' - 0"	1 3/4"	NL	S.G. WOOD	MFR	3	HOL. MTL.	PTD	6		
118-2	6' - 0"	6' - 10"	1 3/4"	NL	HOL. MTL.	FTD	5	HOL. MTL.	PTD	6.1		
114-1	3' - 0"	6' - 10"	1 3/4"	NL	HOL. MTL.	FTD	7	HOL. MTL.	PTD	11		
120-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	3		
121-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	11.1		
122-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	3		
123-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	2		
123-2	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	2		
125-1	3' - 0"	6' - 10"	1 3/4"	NL	HOL. MTL.	FTD	7	HOL. MTL.	PTD	11		
125-2	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	4		
126-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	3		
127-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	3		
127-2	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	FTD	2	HOL. MTL.	PTD	11.1		
128-1	3' - 0"	7' - 0"	1 3/4"	VP	HOL. MTL.	FTD	2	HOL. MTL.	PTD	12.2		
124-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	FTD	2	HOL. MTL.	PTD	5		
130-1	3' - 0"	7' - 0"	1 3/4"	VP	HOL. MTL.	FTD	2	HOL. MTL.	PTD	12.2		
131-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	FTD	6	HOL. MTL.	PTD	10.1		
131-2	3' - 0"	6' - 10"	1 3/4"	NL	HOL. MTL.	FTD	7	HOL. MTL.	PTD	11.1		
131-3	18' - 0"	9' - 0"	2"	OH	INSUL. STL.	MFR	MFR	MFR	MFR	OVERHEAD DOOR OVERHEAD DOOR		
131-4	18' - 0"	9' - 0"	2"	OH	INSUL. STL.	MFR	MFR	MFR	MFR			
133-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	FTD	2	HOL. MTL.	PTD	5		
134-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	FTD	2	HOL. MTL.	PTD	3.1		
135-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	2	HOL. MTL.	PTD	12		
136-1	3' - 0"	7' - 0"	1 3/4"	VP	HOL. MTL.	FTD	2	HOL. MTL.	PTD	12.2		
137-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	FTD	2	HOL. MTL.	PTD	11.1		
138-1	3' - 0"	6' - 10"	1 3/4"	F	HOL. MTL.	FTD	2	HOL. MTL.	PTD	10.2		
138-2	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	FTD	2	HOL. MTL.	PTD	11		
138-3	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	FTD	2	HOL. MTL.	PTD	10		
134-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	FTD	2	HOL. MTL.	PTD	5		
140-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	5		
141-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	5		
143-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	12		
144-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	1		
145-1	3' - 0"	7' - 0"	1 3/4"	F	HOL. MTL.	MFR	1	HOL. MTL.	PTD	12.1		
											SOUND PROOF DOOR	

[illegible]

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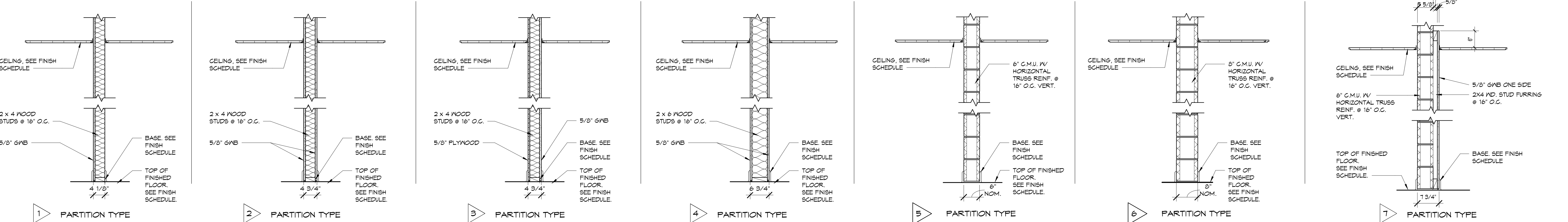
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TROOP A
PORT NORRIS**

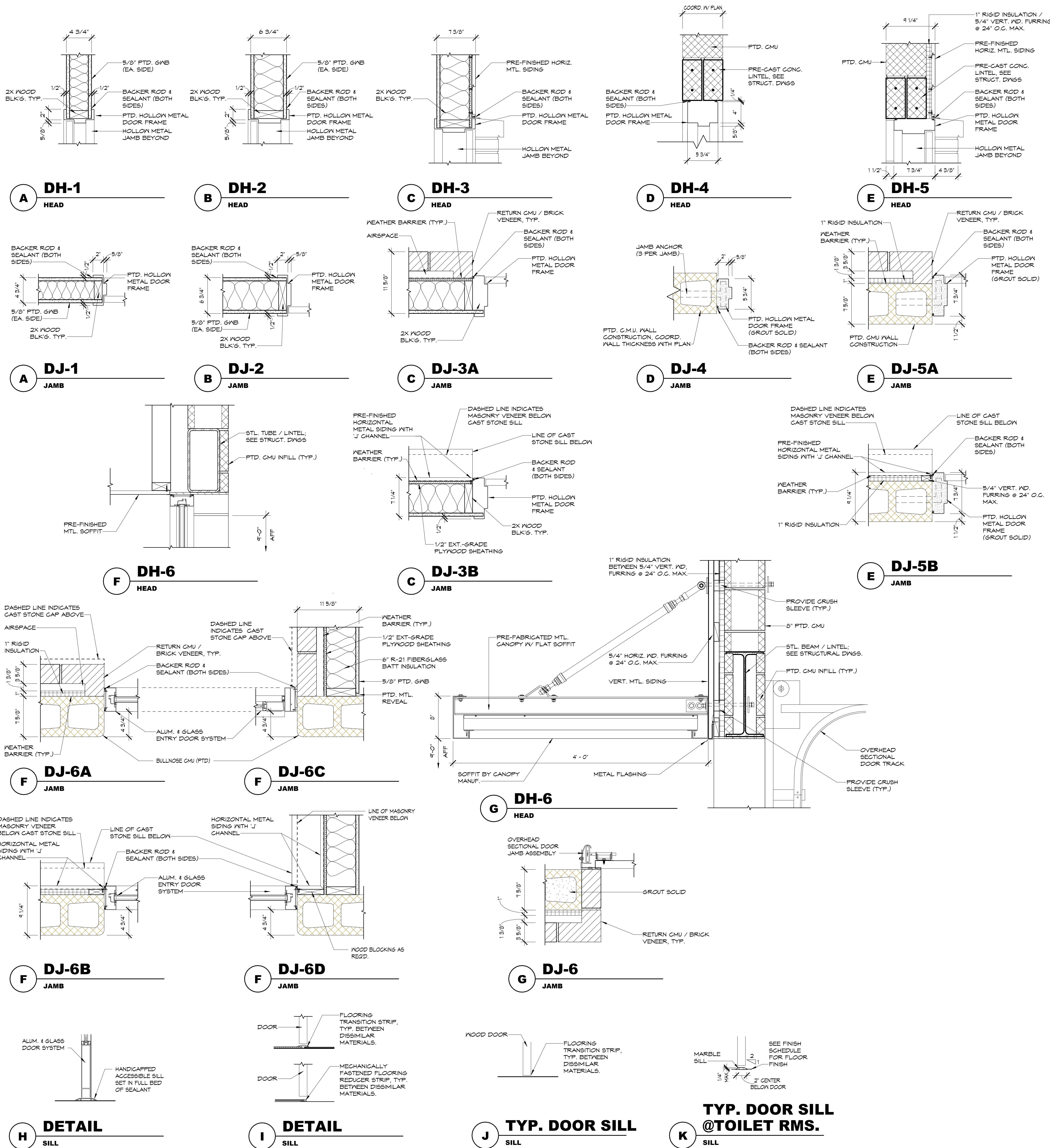
2007 HIGHLAND ST, PORT NORRIS
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LOT: 14 BLOCK: 183

Drawing DOOR/FRAME/WINDOW & PARTITION TYPES, & SCHEDULES	
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Scale As Indicated	Job 21.124	Sheet A1.1
Drawn AA	Date 12/14/2023	



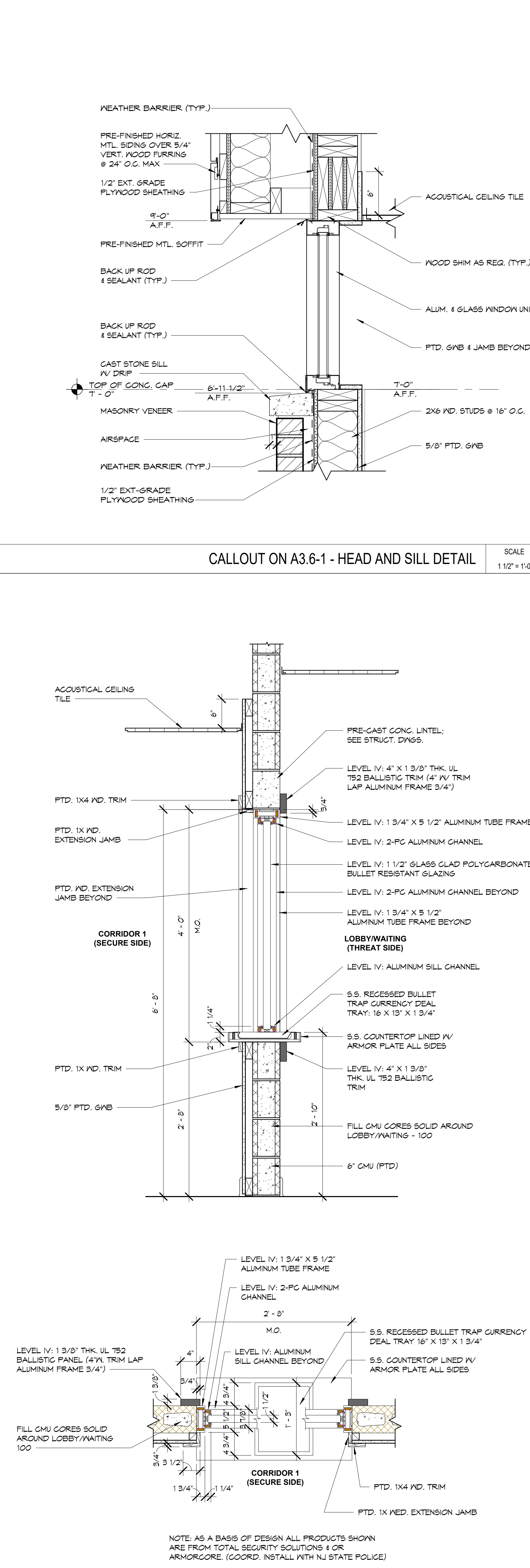
PARTITION TYPES	SCALE 3/4" = 1'-0"	2
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DOOR, HEAD, JAMB, AND SILL DETAILS

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

1



TRANSACTION WINDOW

SCALE
1" = 1'-0"

3

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Drawing
DOOR & WINDOW
DETAILS

Scale	Job	Sheet
As Indicated	21.124	A1.2
Drawn	Date	
GB	12/14/2023	

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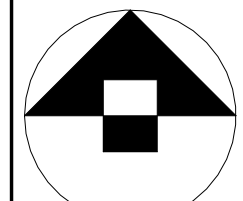
Project

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LOT: 14 BLOCK: 183

Drawing

ROOF PLAN



Scale

As indicated

Job

21.124

Sheet

A1.4

Drawn

AA

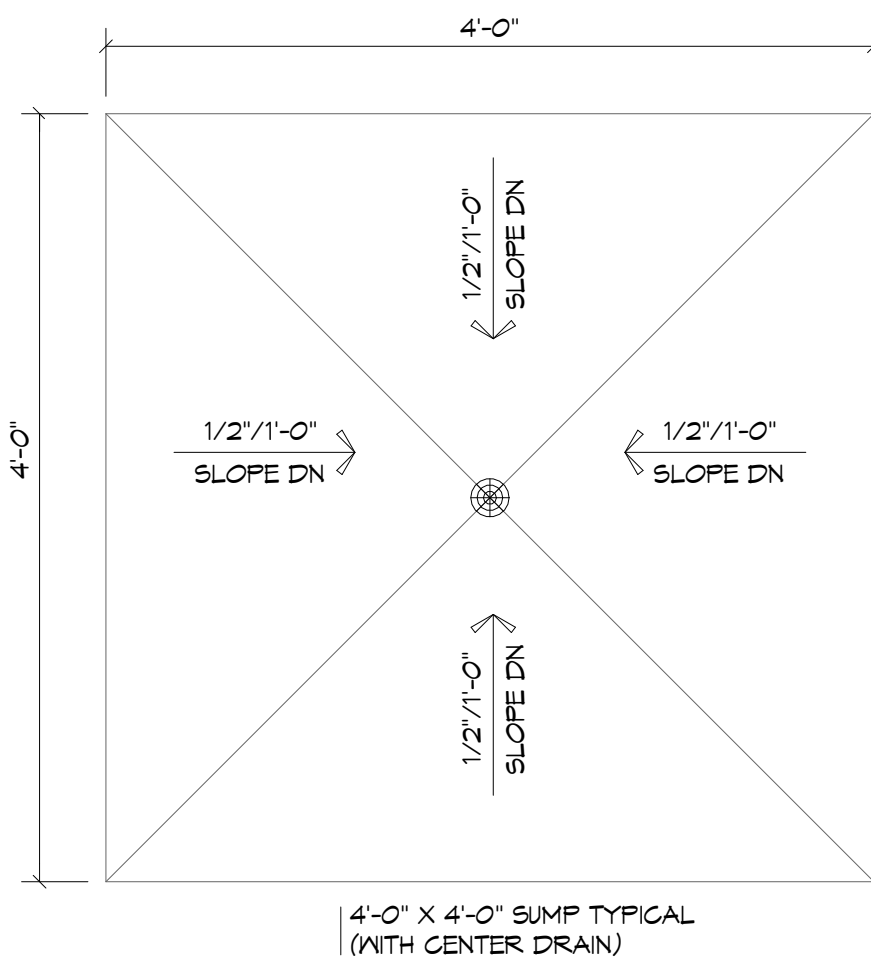
Date

12/14/2023

ROOF PLAN

SCALE
1/8" = 1'-0"

1



OVERSIZED SUMP DETAIL

SCALE
1/4" = 1'-0"

2

ROOF PLAN GENERAL NOTES:

1. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL PENETRATIONS REQUIRING ROOF FLASHING WORK. ALL ROOF PENETRATIONS FOR MINOR ROOF VENTS AND SIMILAR ITEMS MAY NOT BE INDICATED ON THIS ROOF PLAN. HOWEVER, ROOF FLASHING WORK SHALL BE PROVIDED BY THE ROOFING CONTRACTOR SO AS TO OBTAIN OR MAINTAIN ROOFING WARRANTIES.
2. ALL ROOFING FULLY ADHERED SINGLE PLY ROOF MEMBRANE OVER RIGID INSULATION, U.N.O. SEE SPECS.
3. REFER TO WALL SECTIONS FOR TYPICAL PARAPET DETAILS.
4. ALL ROOF MOUNTED EQUIPMENT THAT REQUIRES SERVICE SHALL BE LOCATED 10'-0" MIN. FROM ALL ROOF EDGES.
5. CONTRACTOR SHALL KEEP ROOF CLEAN OF ALL DEBRIS DURING ALL CONSTRUCTION WORK.
6. PROVIDE PIPE FLASHINGS, CONDUIT FLASHINGS AND MANUFACTURED GAS PIPING SUPPORTS AS SPECIFIED.
7. ALL ROOF SLOPES TO BE 1/4" PER FOOT U.N.O.
8. PROVIDE CRICKETS AT ALL MECHANICAL EQUIPMENT AS REQUIRED TO ENSURE POSITIVE DRAINAGE.

ROOF PLAN GENERAL NOTES

SCALE
1:1

3

PROVIDE (2) STAGGERED ROWS OF MTL. SNOW GUARDS MECHANICALLY FASTENED DIRECTLY TO ROOF PURLIN IN ROOF PANEL FLAT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.

SNOW GUARD LAYOUT IS FOR GRAPHICAL REPRESENTATION ONLY. COORDINATE W/ MANUFACTURER FOR INSTALLATION REQUIREMENTS.

DIRECT SCREW DOWN PRE-FINISHED METAL ROOF PANEL

PRE-FINISHED MTL. GUTTER

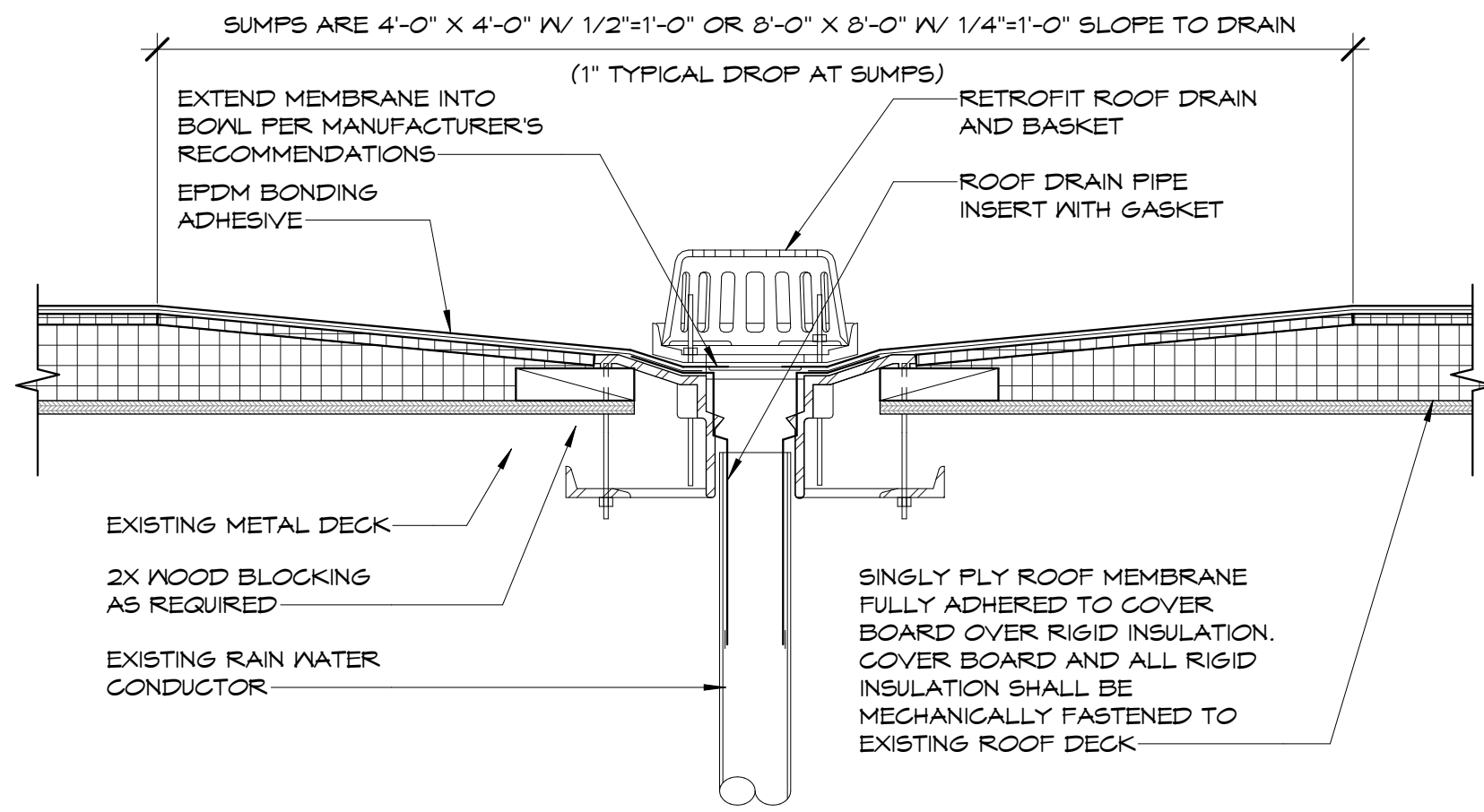
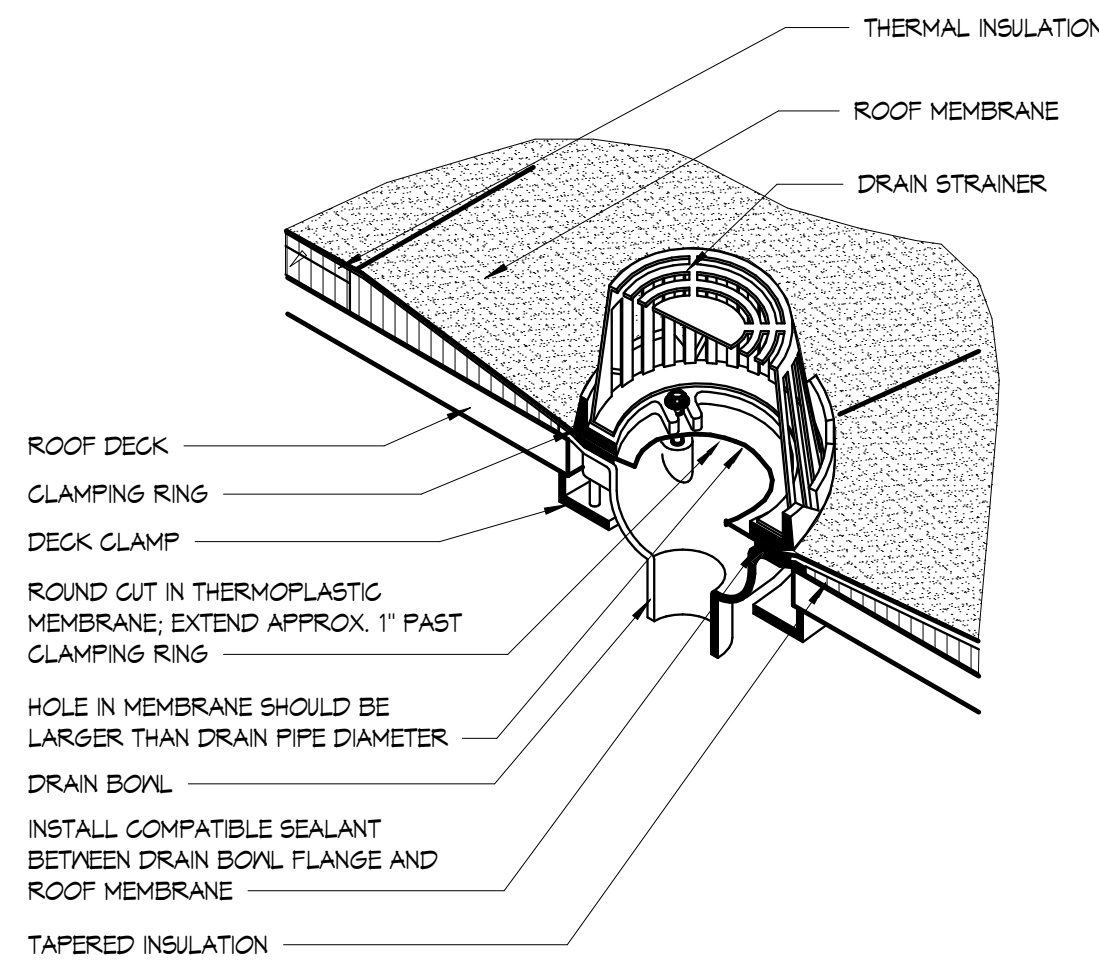
HIGH

LOW

T.O. PARAPET - ELEV. 22'-6"

T.O. PARAPET ELEV. 18'-11"

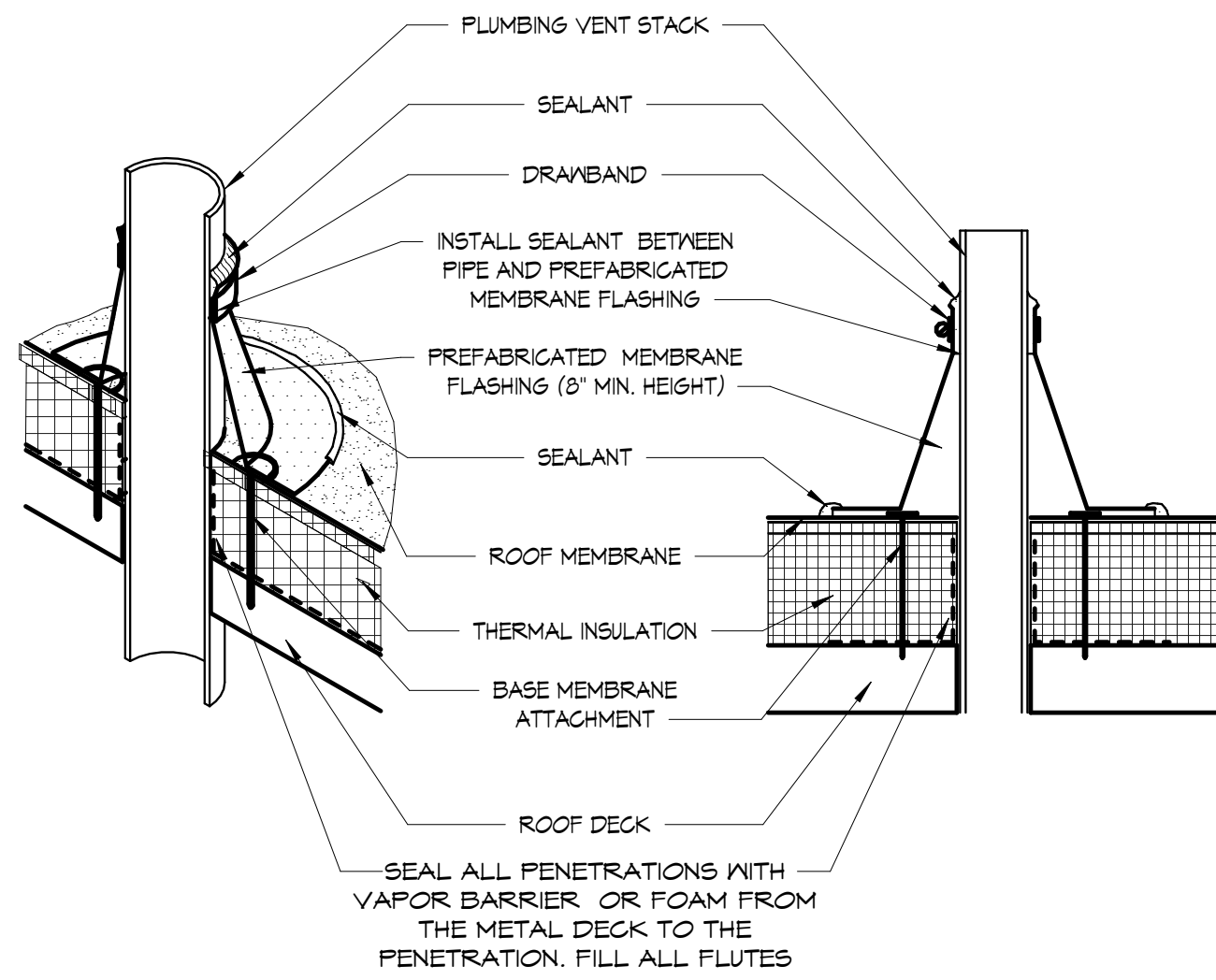
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ROOF DRAIN DETAIL

SCALE
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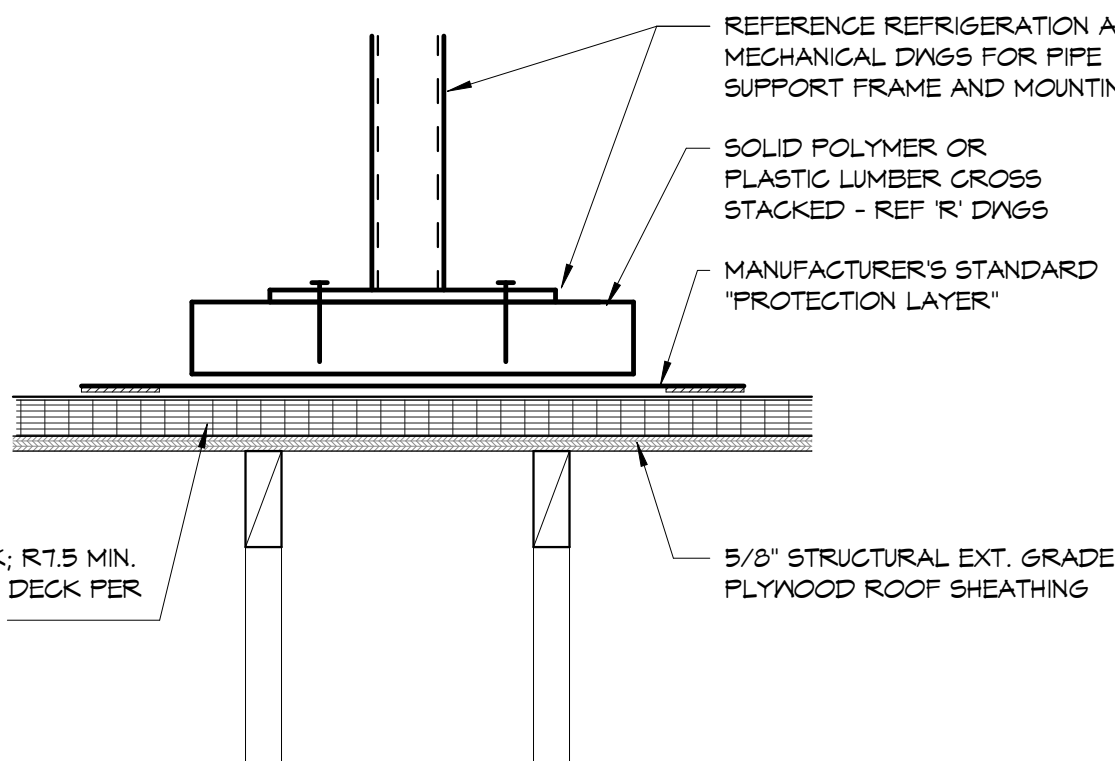
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VENT PIPE DETAIL

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

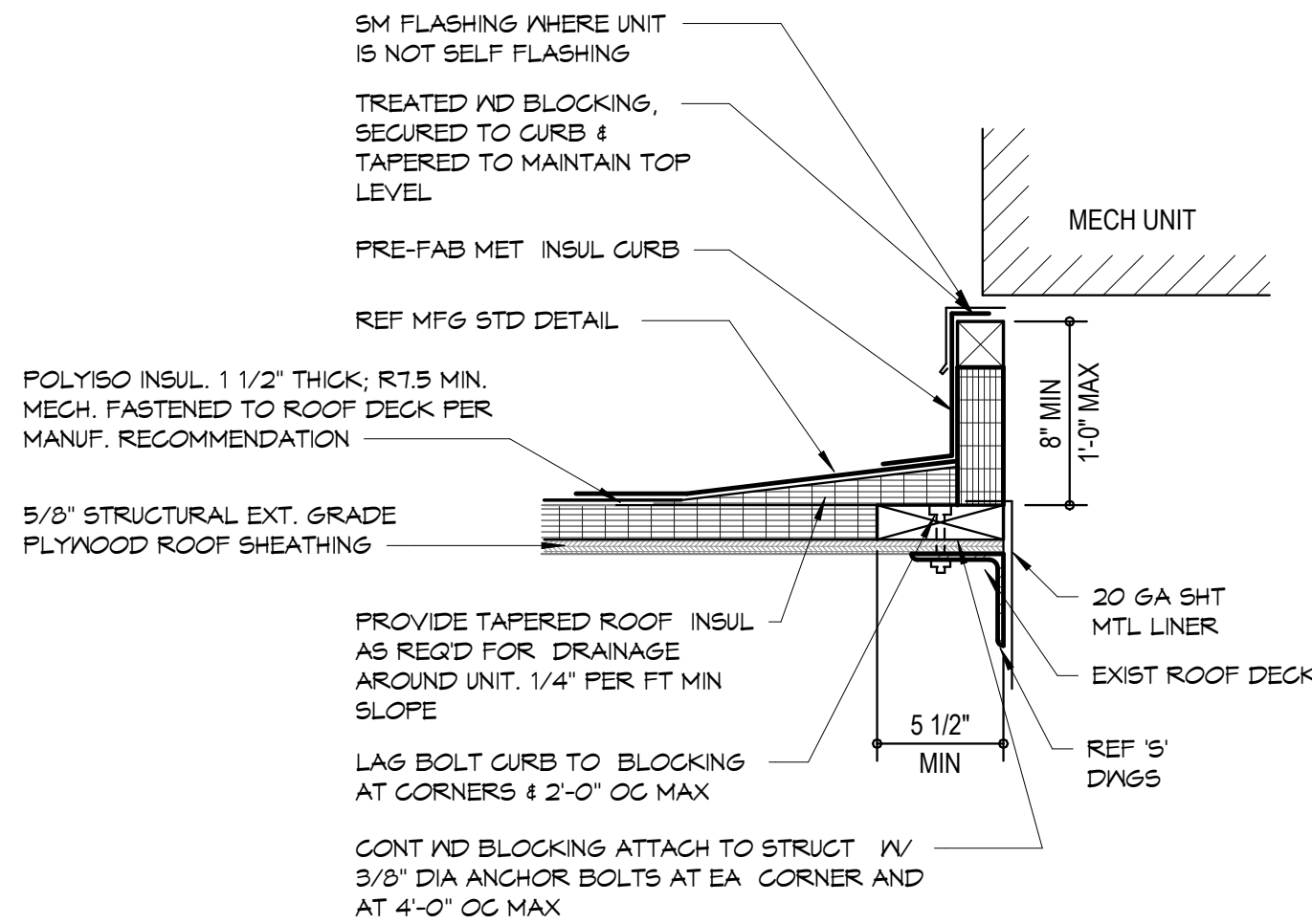
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PIPE/EQUIPMENT SUPPORT ABOVE ROOF

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

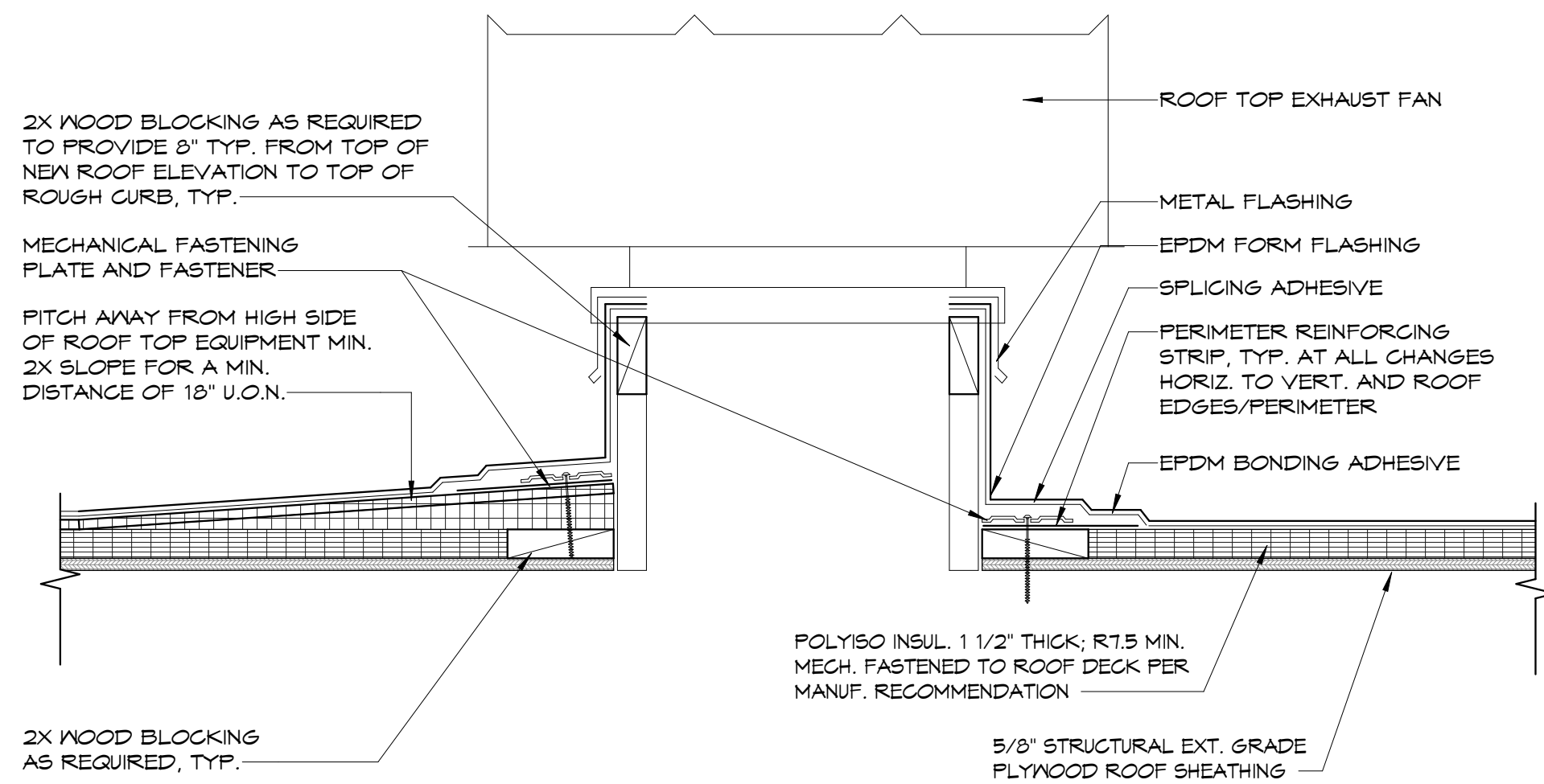
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PRE-FAB CURB

SCALE
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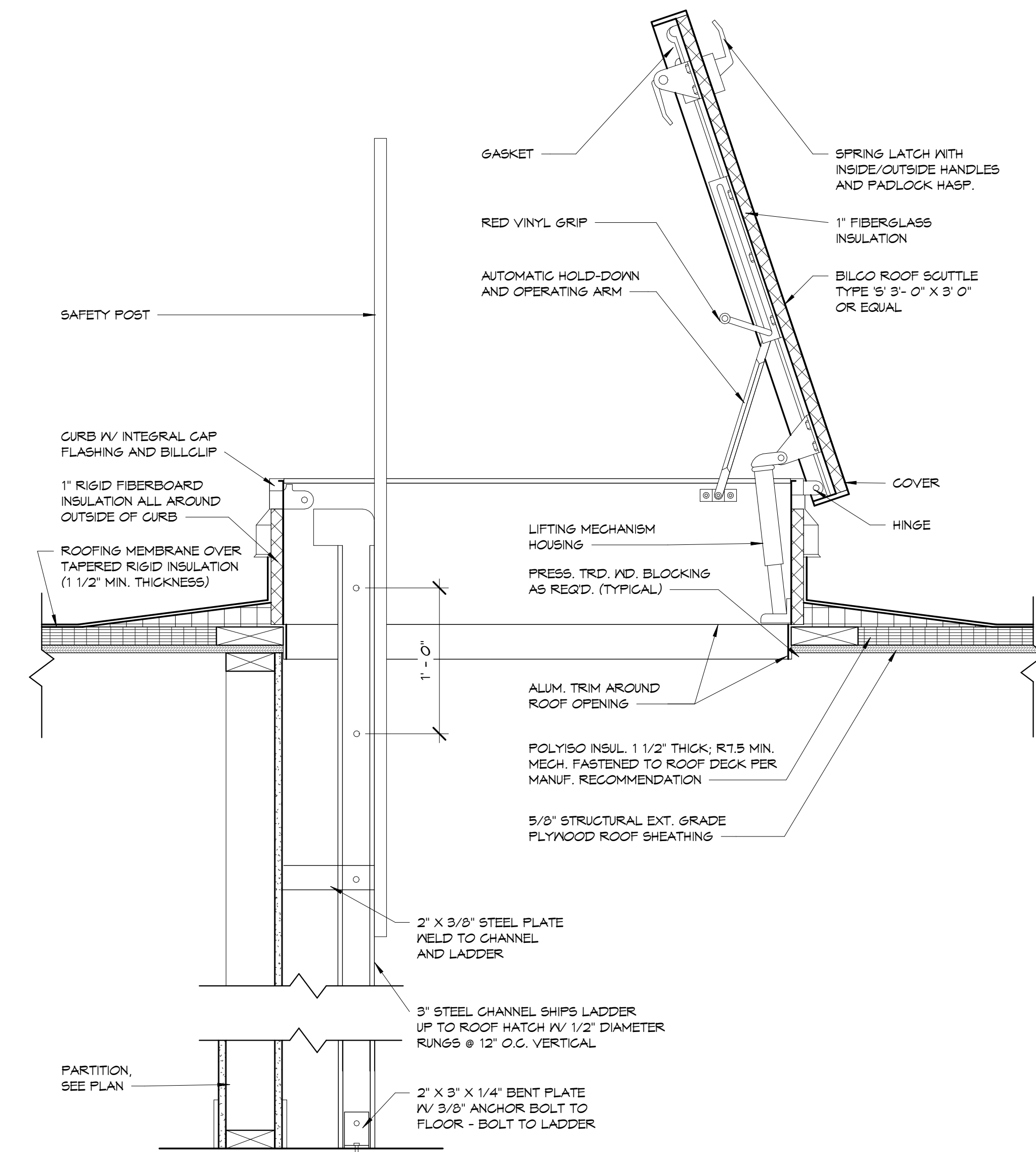
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EXHAUST HOOD/CURB DETAIL

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

3



ROOF HATCH DETAIL

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

4

NOTE: ADJUST ROOF TRUSS SPACING AND PROVIDE TRUSS GIRDER AS REQ'D. AT ROOF HATCH OPENING (TYP. 2 LOCATIONS)

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Drawing

ROOF DETAILS

Scale

1 1/2" = 1'-0"

Job

21.124

Sheet

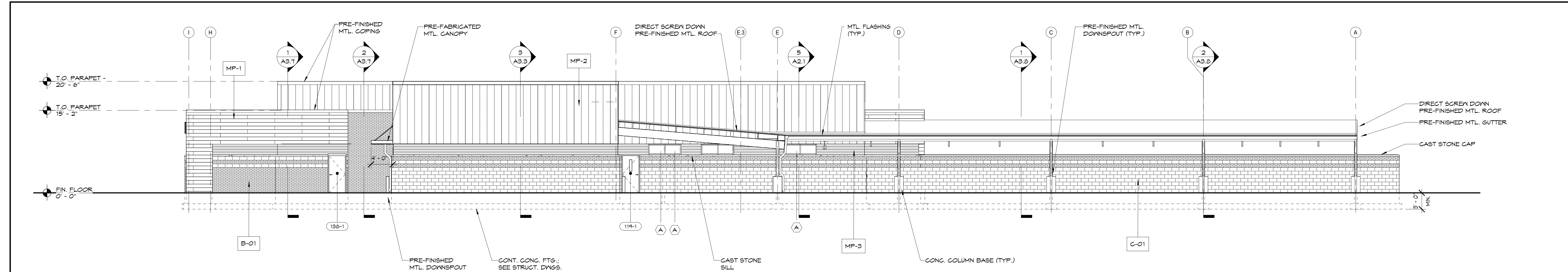
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Drawn

GB

Date

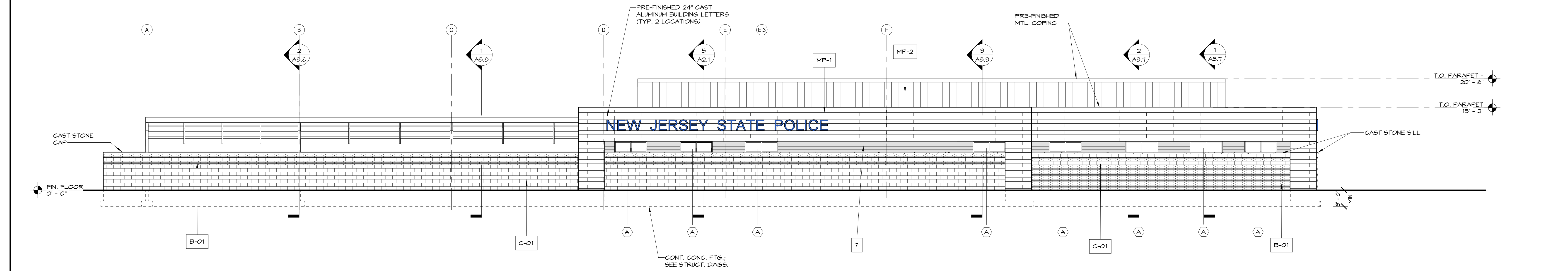
12/14/2023



BUILDING ELEVATION - N

SCALE
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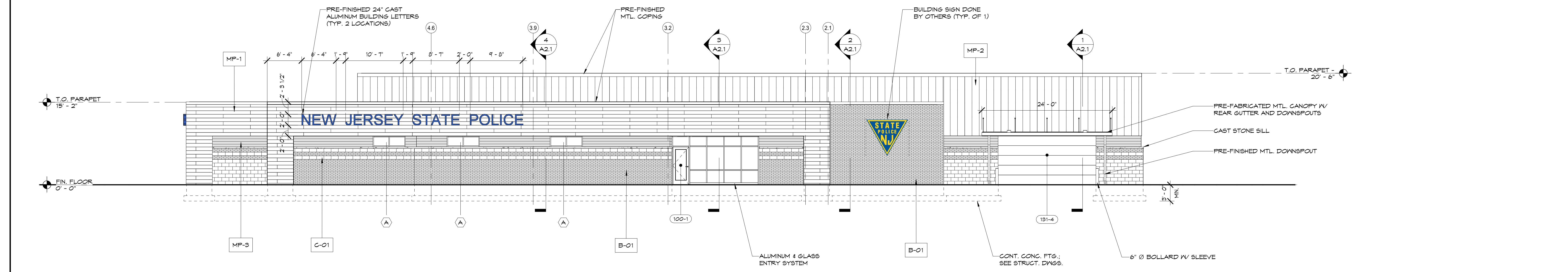
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BUILDING ELEVATION - S

SCALE
1/8" = 1'-0"

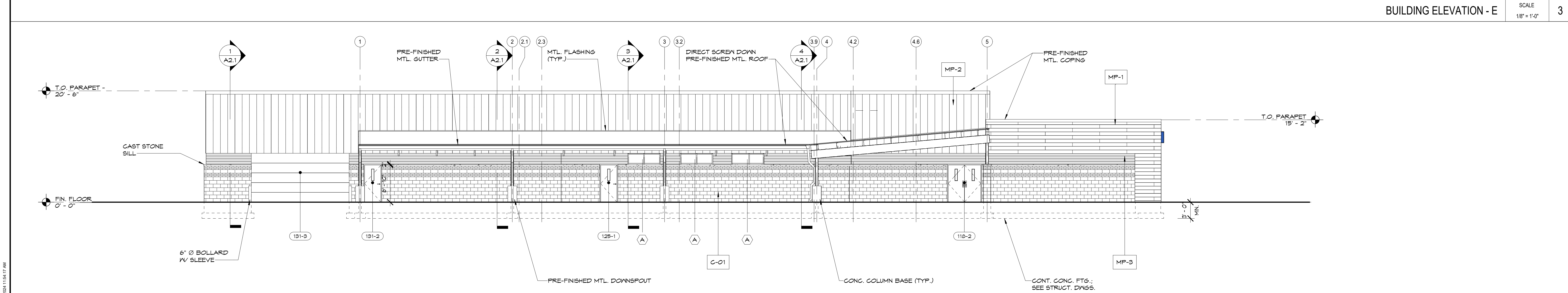
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BUILDING ELEVATION - E

SCALE
1/8" = 1'-0"

3



BUILDING ELEVATION - W

SCALE
1/8" = 1'-0"

4

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MATERIAL LEGEND	
MP-1:	ATAS VERSA-SEAM VSS000 IV 1/4" REVEAL (HORIZ. & VERT.); PRE-FINISHED KYNAR 500; COLOR TO BE SELECTED.
MP-2:	ATAS DESIGN WALL DYNF 12" WIDE PANEL WITH NO STIFFENING RIBS; PRE-FINISHED KYNAR 500; COLOR TO BE SELECTED.
MP-3:	ATAS OPALINE OFF 6" WIDE PANEL U.N.O.; PRE-FINISHED KYNAR 500; COLOR TO BE SELECTED. VERTICAL JOINTS / SEAMS TO BE STAGGERED A MINIMUM OF 2'-0" AND SHOULD NOT ALIGN.
C-01:	DECORATIVE CMU VENEER; SPLIT FACE.
B-01:	BRICK VENEER.
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON ALL EXTERIOR MATERIALS UTILIZED.	

NOTES:
1. ALL EXPOSED STRUCTURE AT COVERED PARKING AREA TO BE PAINTED.

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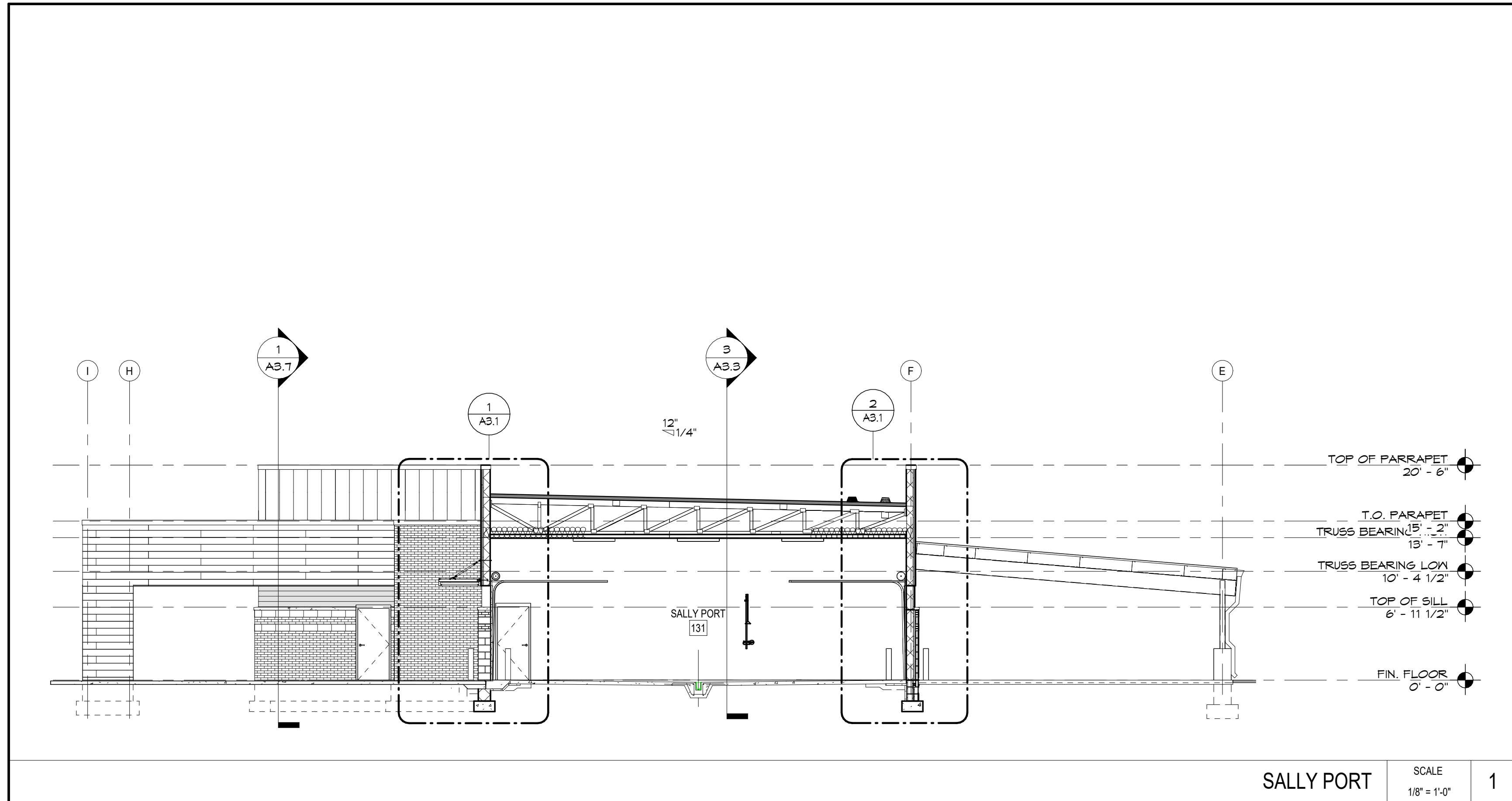


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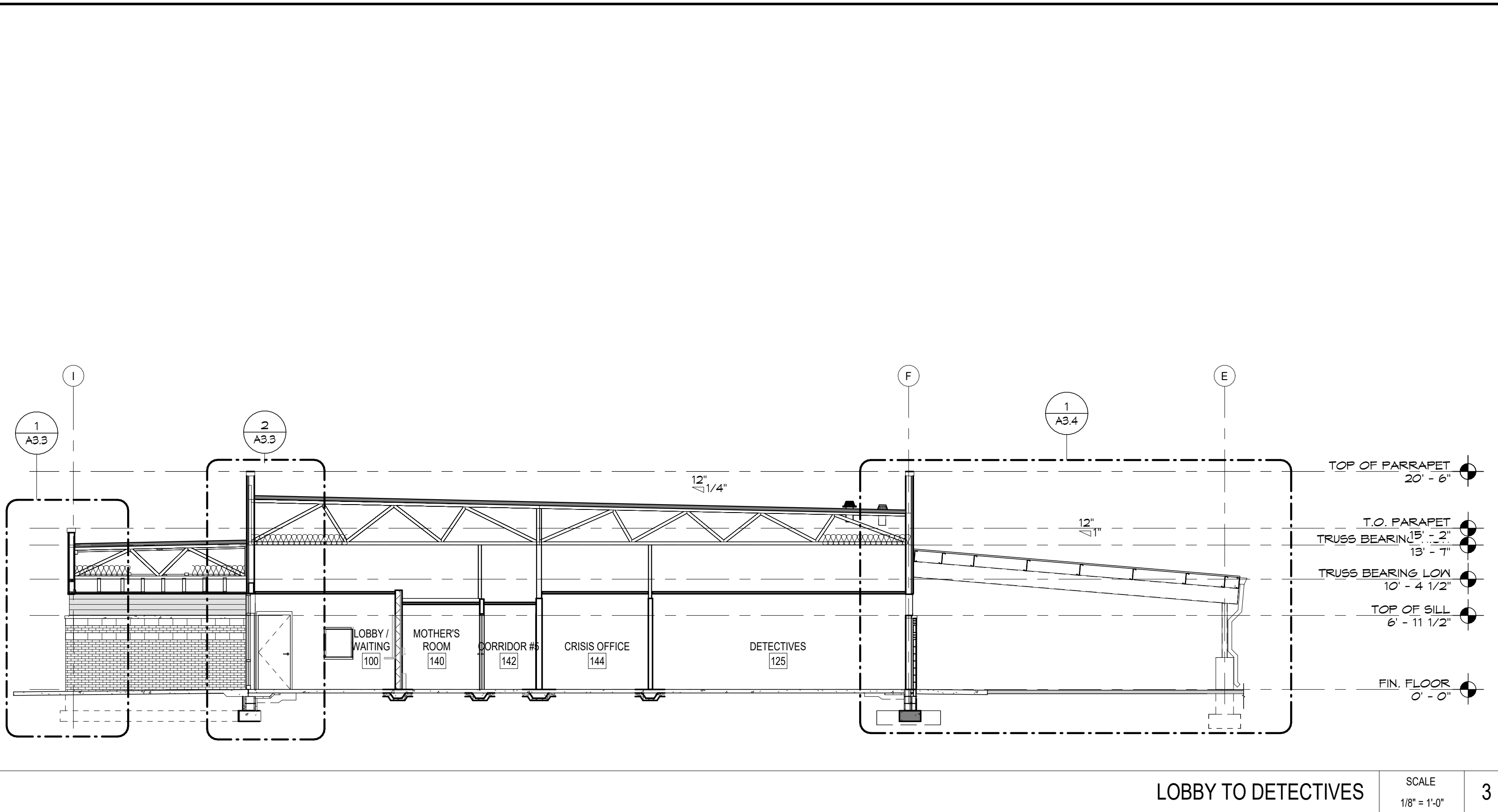
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Drawing
BUILDING ELEVATIONS

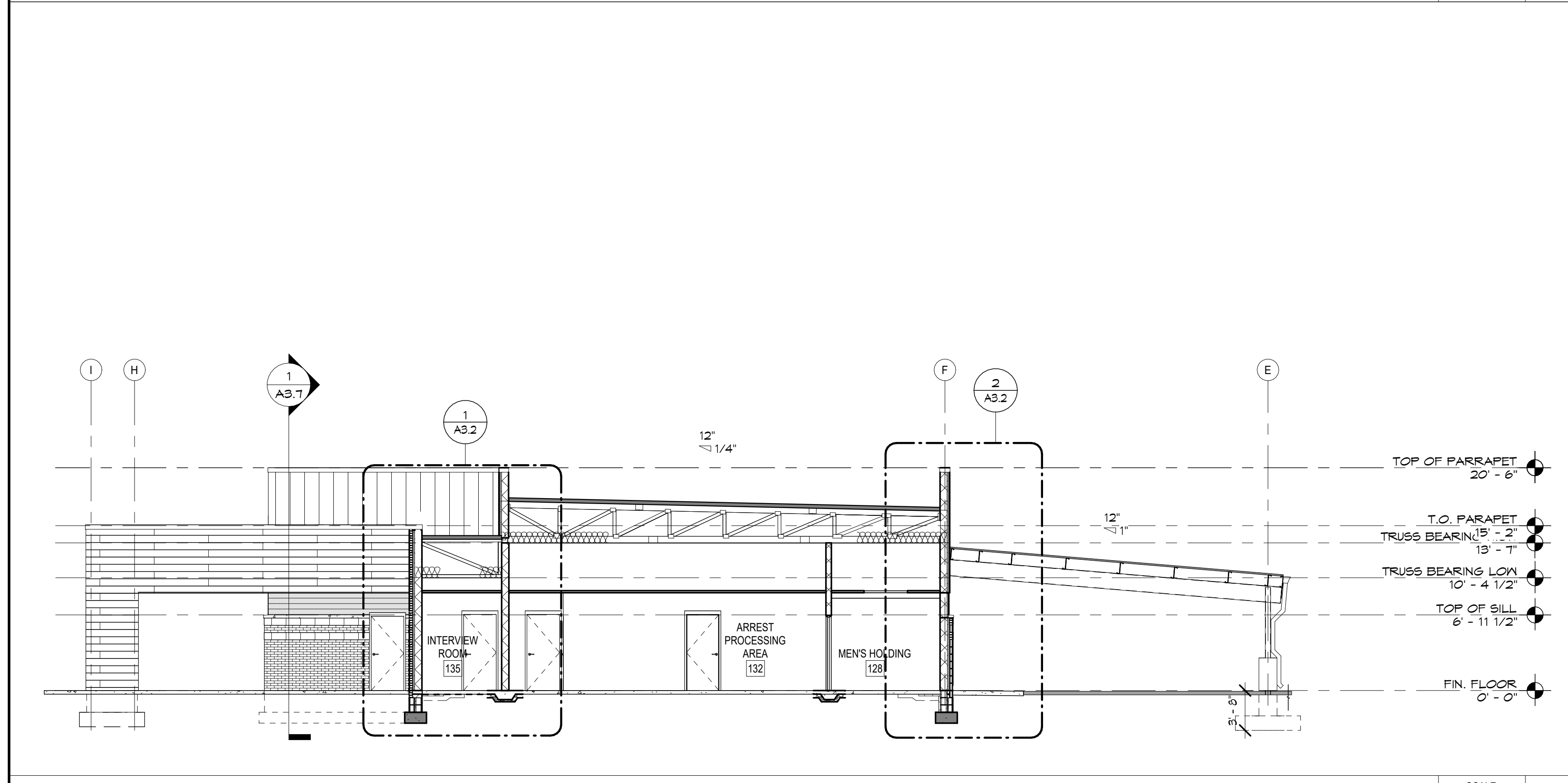
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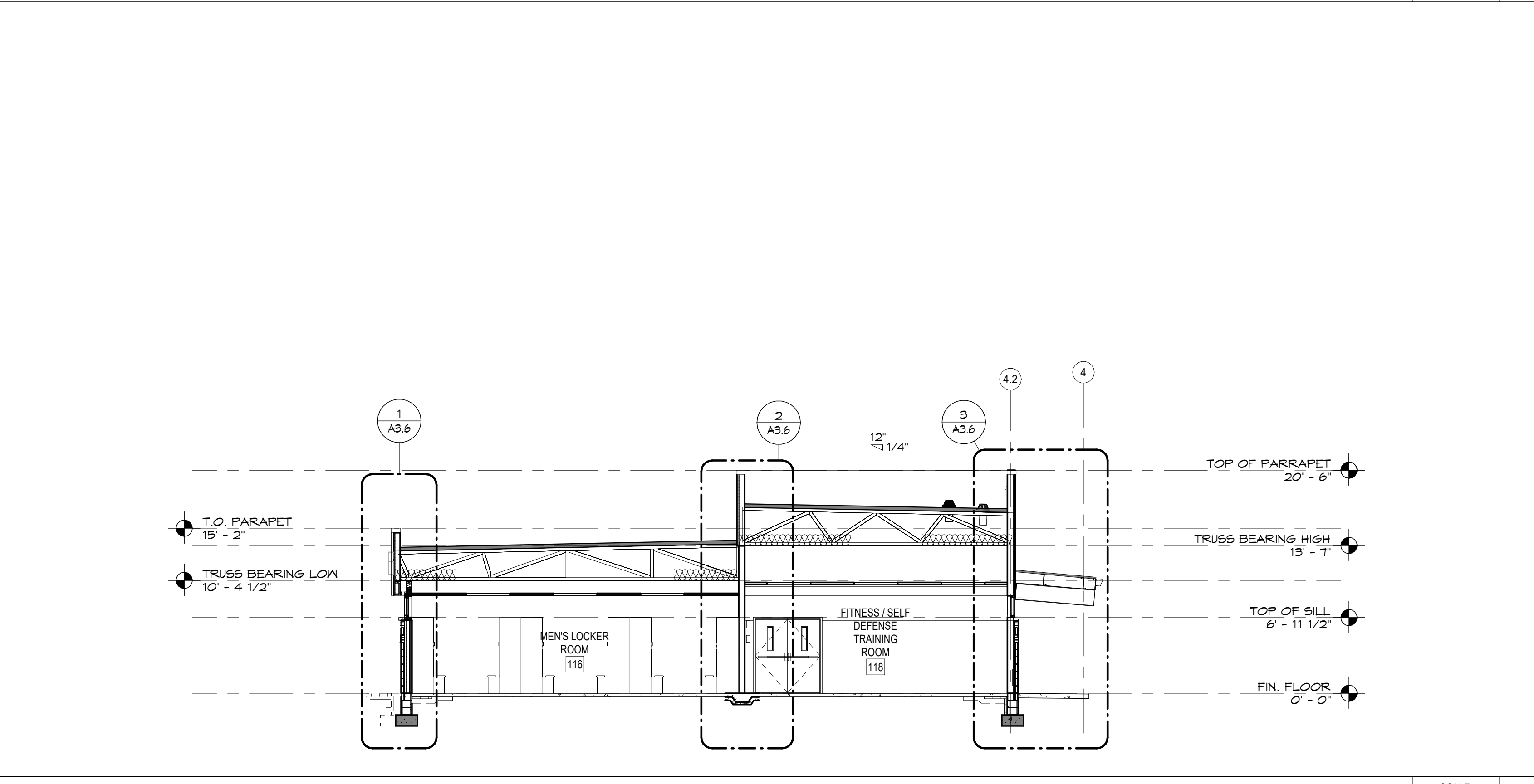
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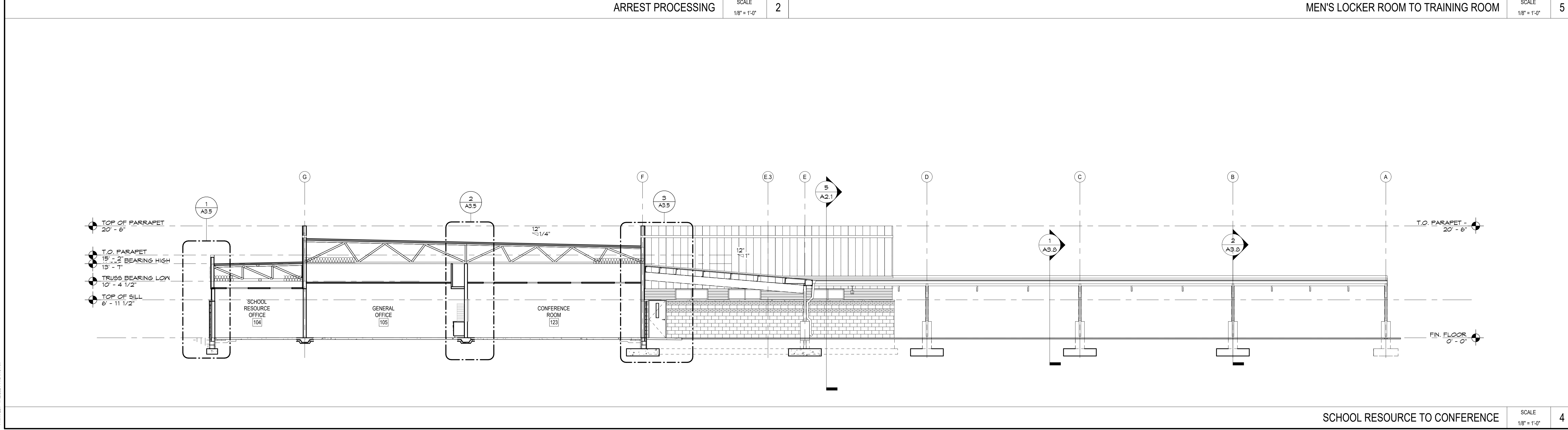
LOBBY TO DETECTIVES SCALE 1/8" = 1'-0" 3



ARREST PROCESSING SCALE 1/8" = 1'-0" 2




MEN'S LOCKER ROOM TO TRAINING ROOM SCALE 1/8" = 1'-0" 5



SCHOOL RESOURCE TO CONFERENCE SCALE 1/8" = 1'-0" 4

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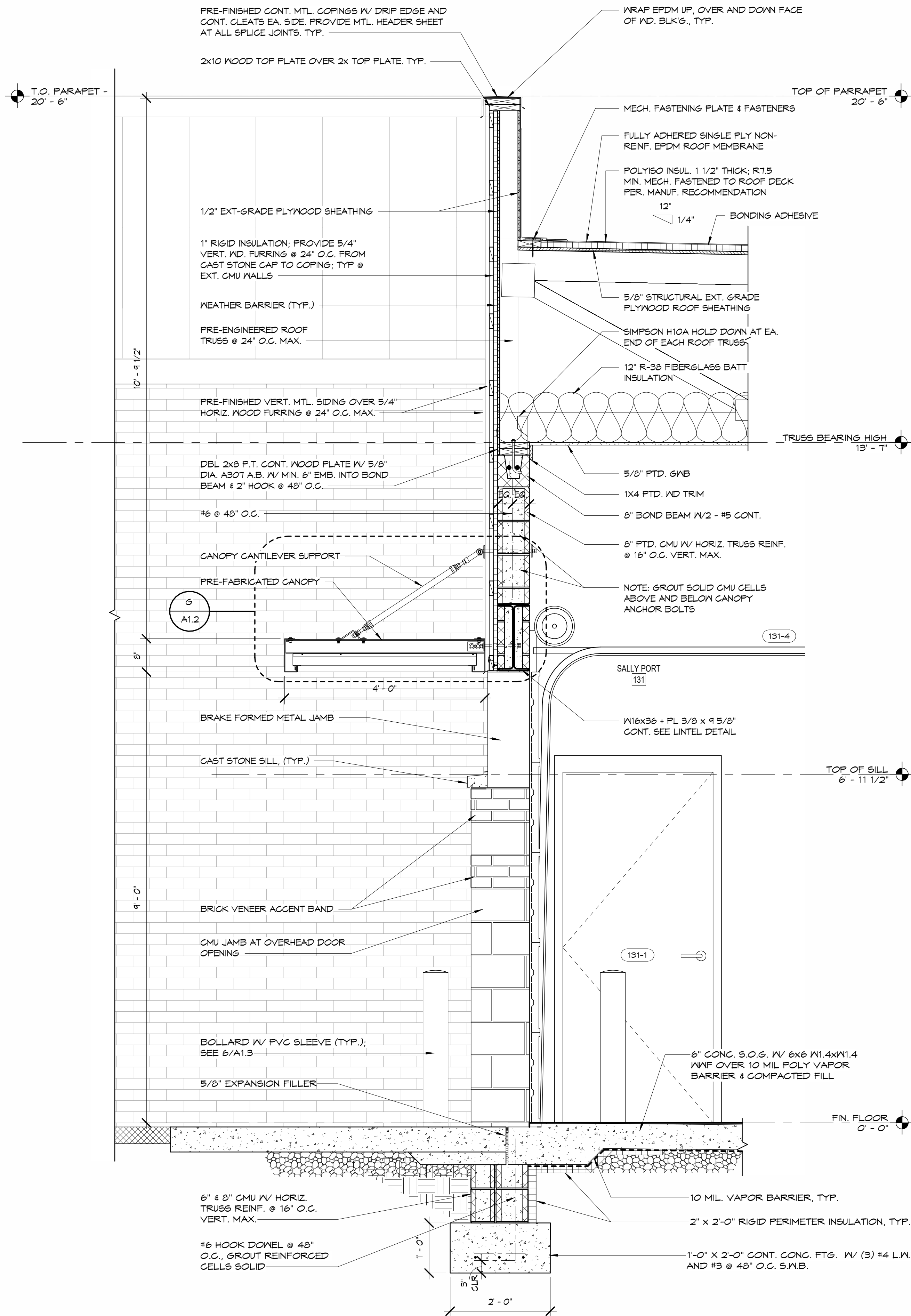
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Drawing		
BUILDING SECTIONS		
Scale	Job	Sheet
1/8" = 1'-0"	21.124	A2.1
Drawn	Date	
AA	12/14/2023	

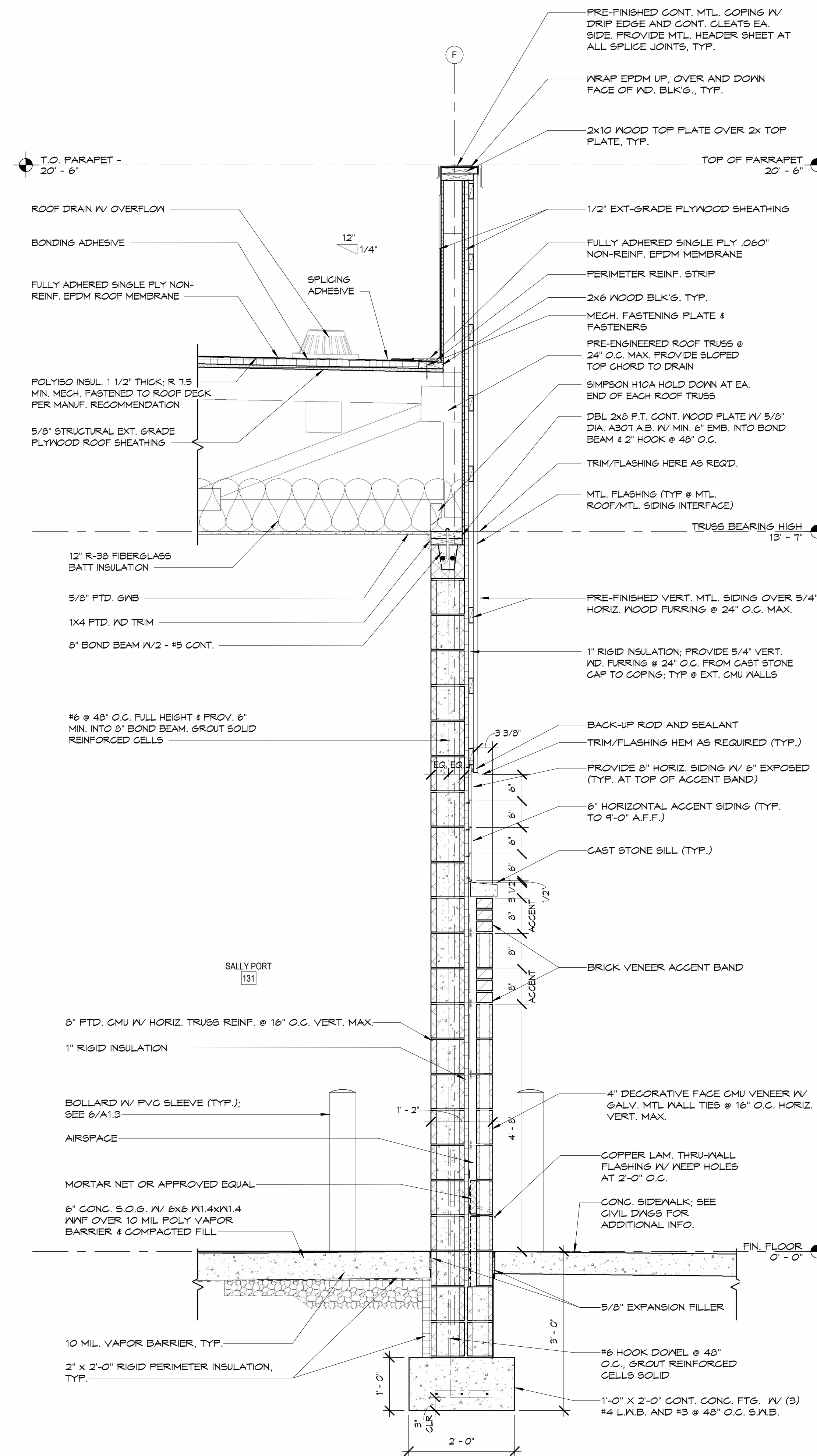
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BUILDING SECTION 1 - CALLOUT 1

SCALE
3/4\"/>

1



BUILDING SECTION 1 - CALLOUT 2

SCALE
3/4\"/>

2

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GENERAL NOTE:
SEE STRUCTURAL DWG. S1.9 FOR ADDITIONAL
INFORMATION ON WOOD STUD SPACING AND
BRACINGS / BLOCKING REQUIREMENTS. IN SOME
AREAS, WOOD STUDS ARE INSTALLED AT 12\"/>

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Project

NJ STATE POLICE
TROOP A
PORT NORRIS

2007 HIGHLAND ST, PORT NORRIS
COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183

Drawing

WALL SECTIONS 1

Scale

3/4\"/>

Job

21.124

Sheet

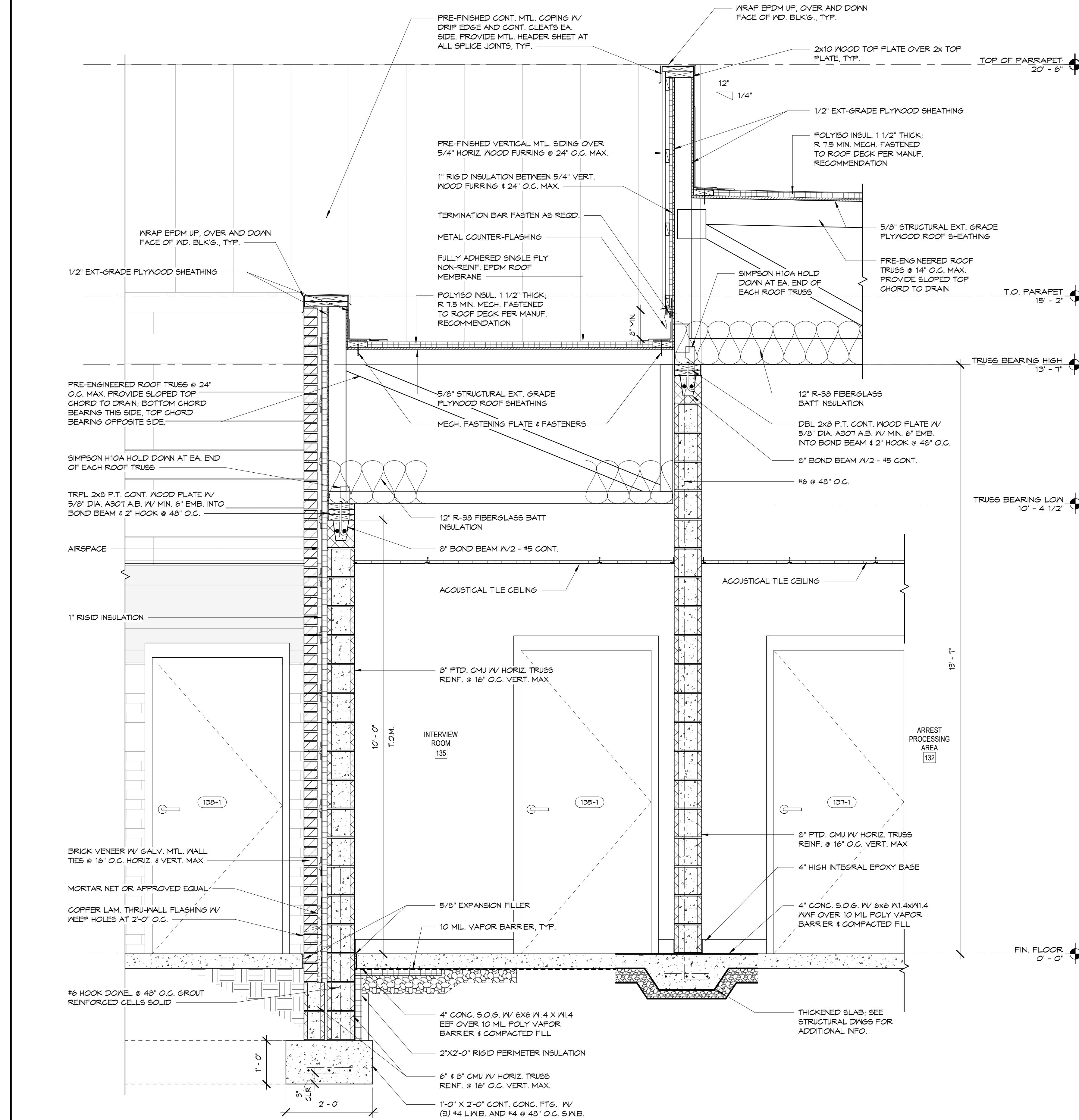
A3.1

Drawn

AA

Date

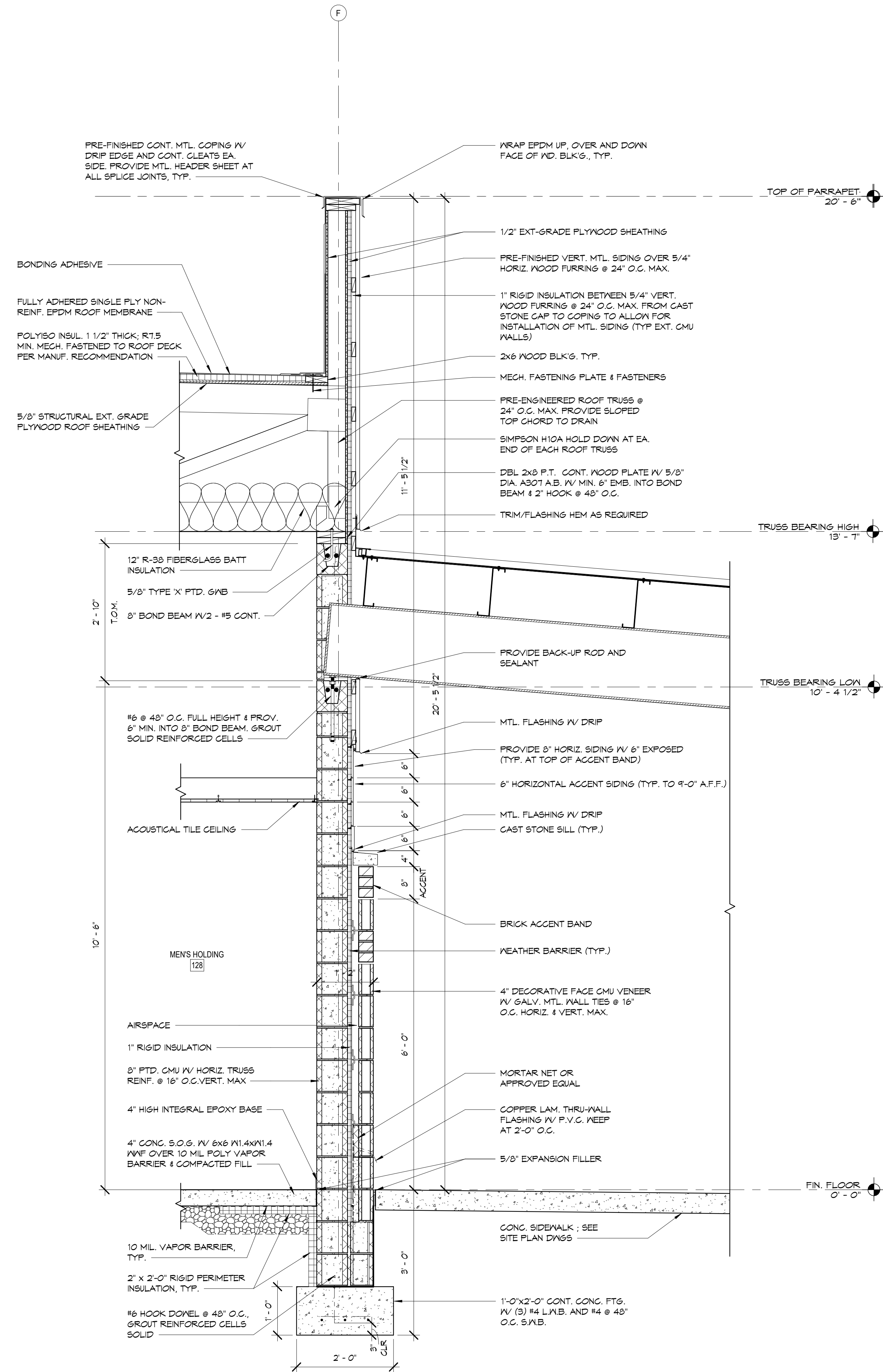
12/14/2023



BUILDING SECTION 2 - CALLOUT 1

SCALE
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1



BUILDING SECTION 2 - CALLOUT 2

SCALE
3/4" = 1'-0"

2

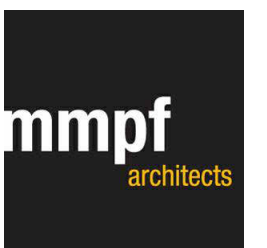
RELEASE / REVISION

No.	Date	Description
1	12/14/23	RELEASED FOR REVIEW
2	1/16/24	RELEASED FOR BIDDING

GENERAL NOTE:
SEE STRUCTURAL DWG. S1.5 FOR ADDITIONAL
INFORMATION ON WOOD STUD SPACING AND
BRACING / BLOCKING REQUIREMENTS. IN SOME
AREAS, WOOD STUDS ARE INSTALLED AT 12" O.C.

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**NJ STATE POLICE
TROOP A
PORT NORRIS**
2007 HIGHLAND ST, PORT NORRIS
COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183

Drawing

WALL SECTIONS 2

Scale

3/4" = 1'-0"

Job

21.124

Sheet

A3.2

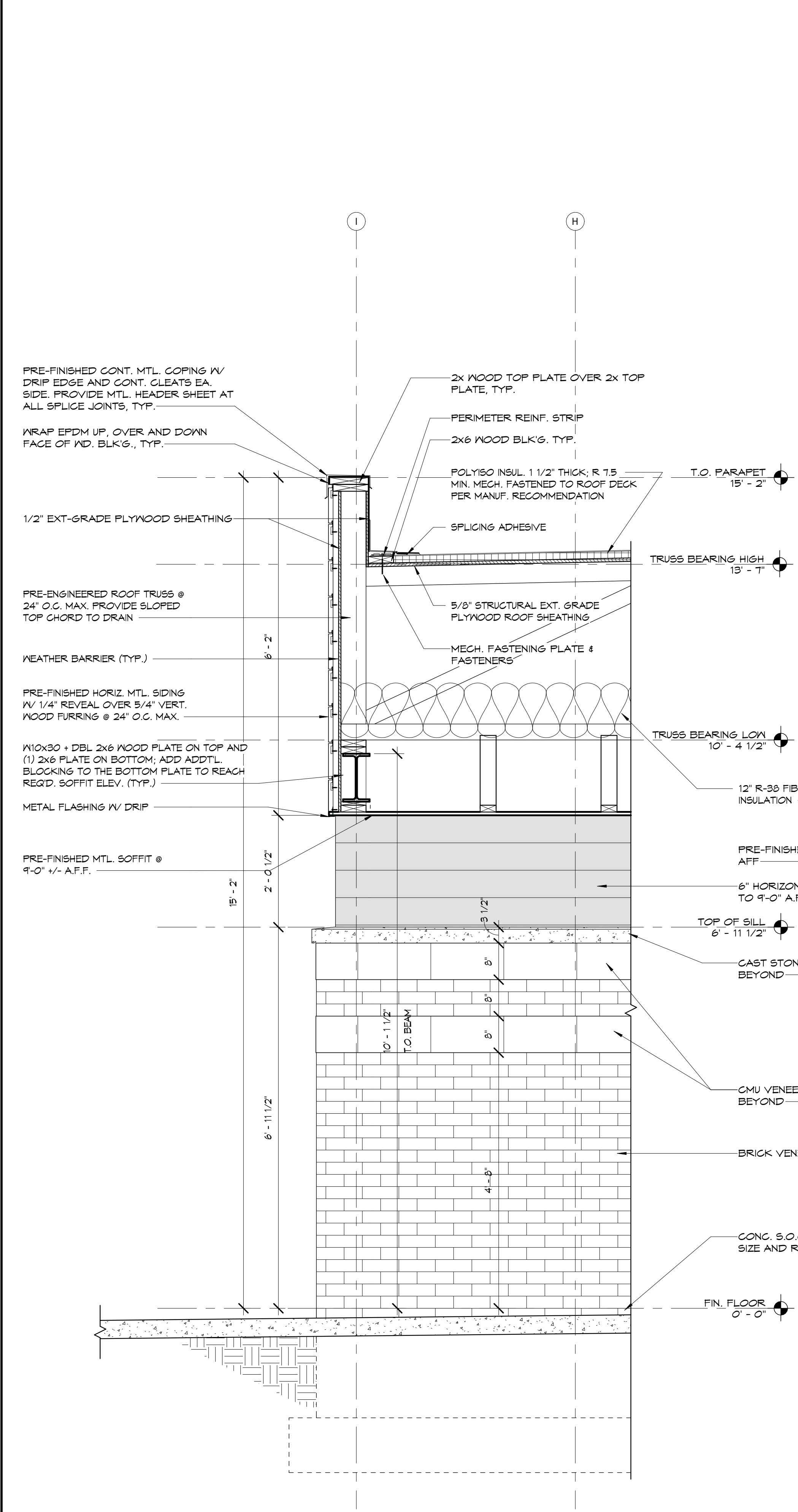
Drawn

AA

Date

12/14/2023

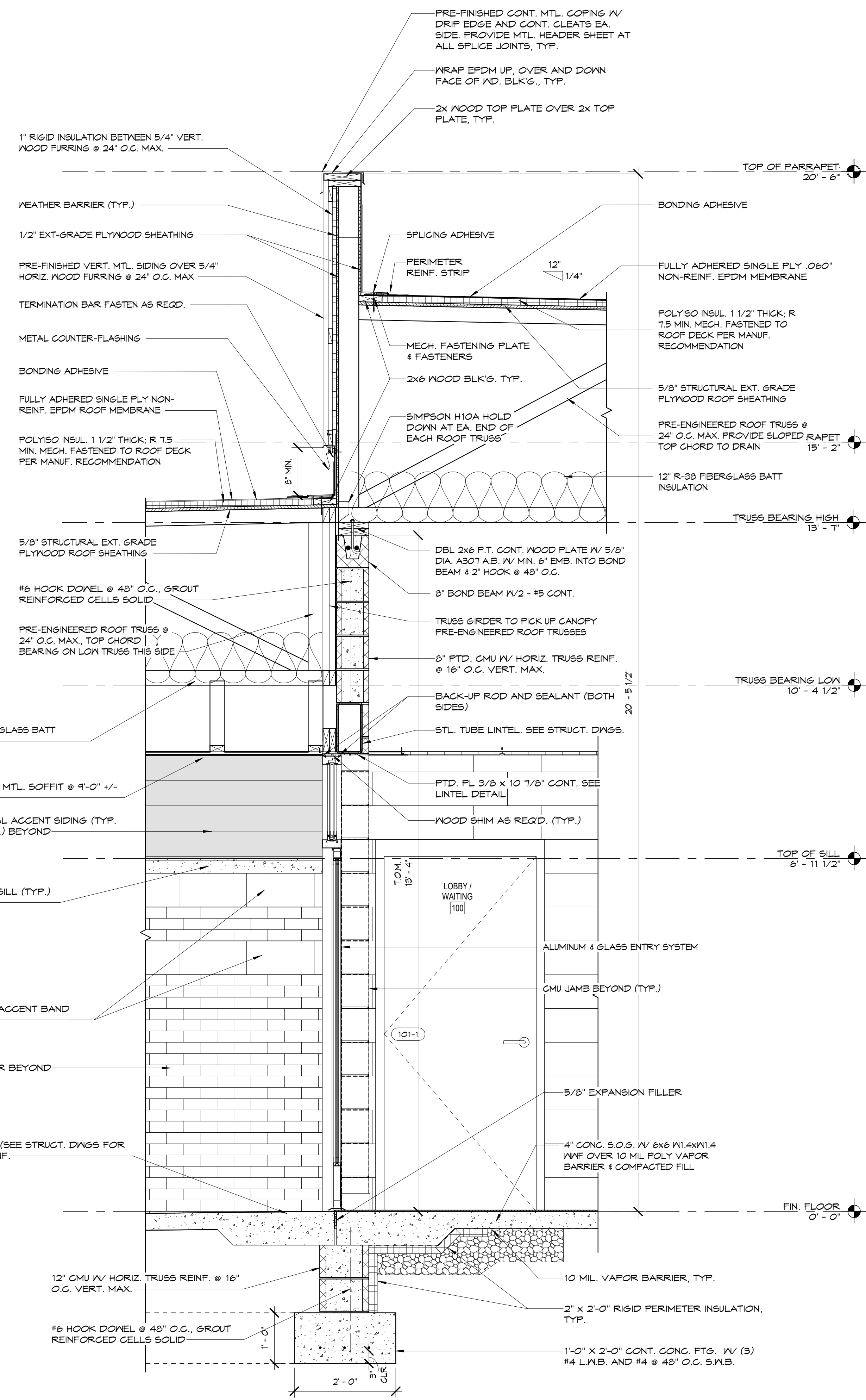
PRINTED: 12/20/24 11:56:04 AM



BUILDING SECTION 3 - CALLOUT 1

SCALE
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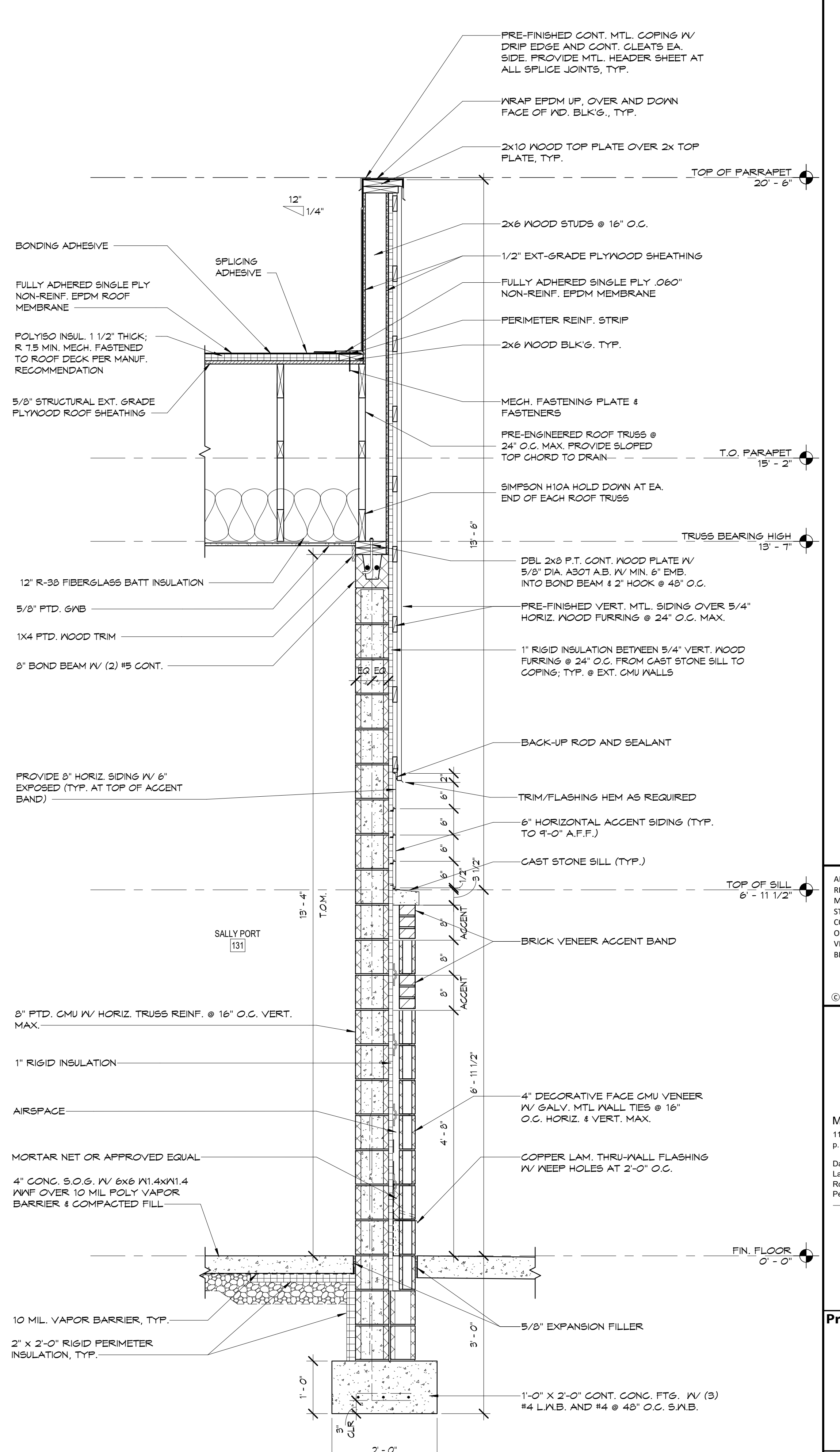
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BUILDING SECTION 3 - CALLOUT 2

SCALE
3/4" = 1'-0"

2



WALL SECTION - CMU

SCALE
3/4" = 1'-0"

3

RELEASE / REVISION		
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GENERAL NOTE:
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INFORMATION ON WOOD STUD SPACING AND
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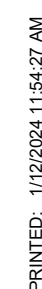


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Project
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TROOP A
PORT NORRIS
2007 HIGHLAND ST, PORT NORRIS
COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183

Drawing		
WALL SECTIONS 3		
Scale	Job	Sheet
3/4" = 1'-0"	21.124	A3.3
Drawn	Date	
AA	12/14/2023	

GENERAL NOTE:
SEE STRUCTURAL DWG. S1.3 FOR ADDITIONAL
INFORMATION ON WOOD STUD SPACING AND
BRACING / BLOCKING REQUIREMENTS. IN SOME
AREAS, WOOD STUDS ARE INSTALLED AT 12" O.C.





GENERAL NOTE:
SEE STRUCTURAL DWG. 51.3 FOR ADDITIONAL
INFORMATION ON WOOD STUD SPACING AND
BRACING / BLOCKING REQUIREMENTS. IN SOME
AREAS, WOOD STUDS ARE INSTALLED AT 12" O.C.

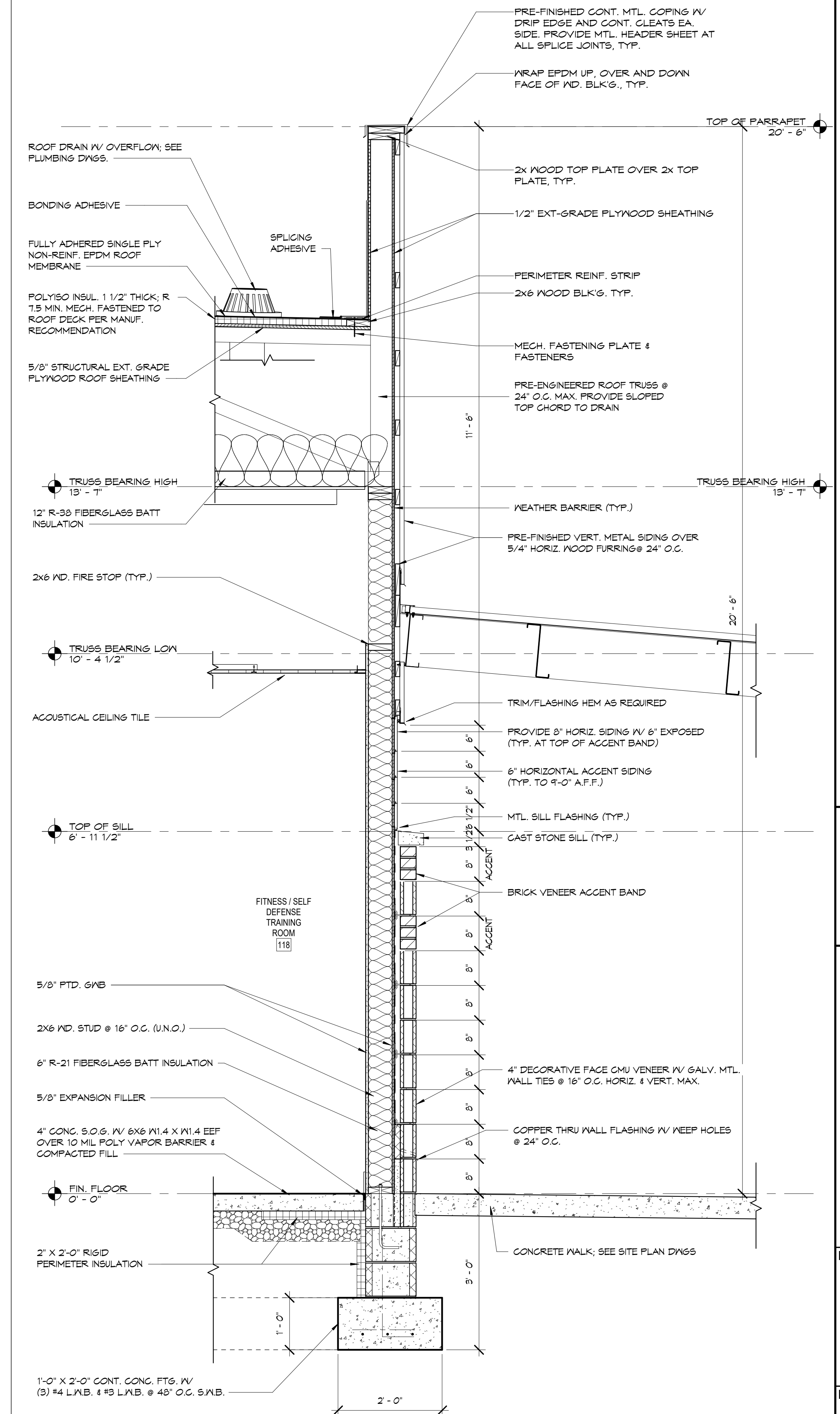
Project

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COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183

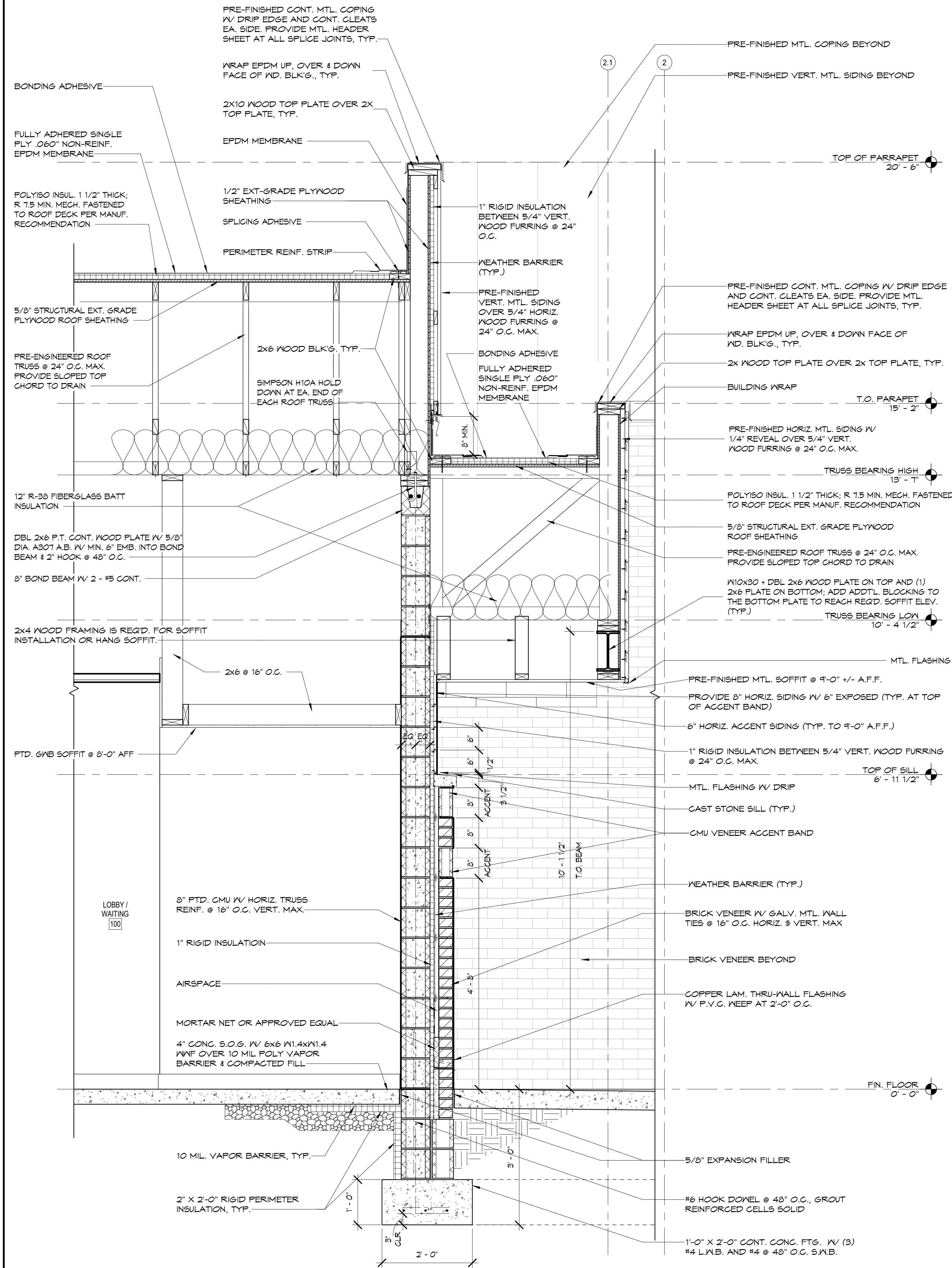
Drawing		
WALL SECTIONS 5		
Scale	Job	Sheet A3.5
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Drawn	Date	
AA	12/14/2023	

GENERAL NOTE:
SEE STRUCTURAL DWG. 51.3 FOR ADDITIONAL
INFORMATION ON WOOD STUD SPACING AND
BRACING / BLOCKING REQUIREMENTS. IN SOME
AREAS, WOOD STUDS ARE INSTALLED AT 12" O.C.



Drawing		
WALL SECTIONS 6		
Scale 3/4" = 1'-0"	Job 21.124	Sheet
Drawn AA	Date 12/14/2023	A3.6

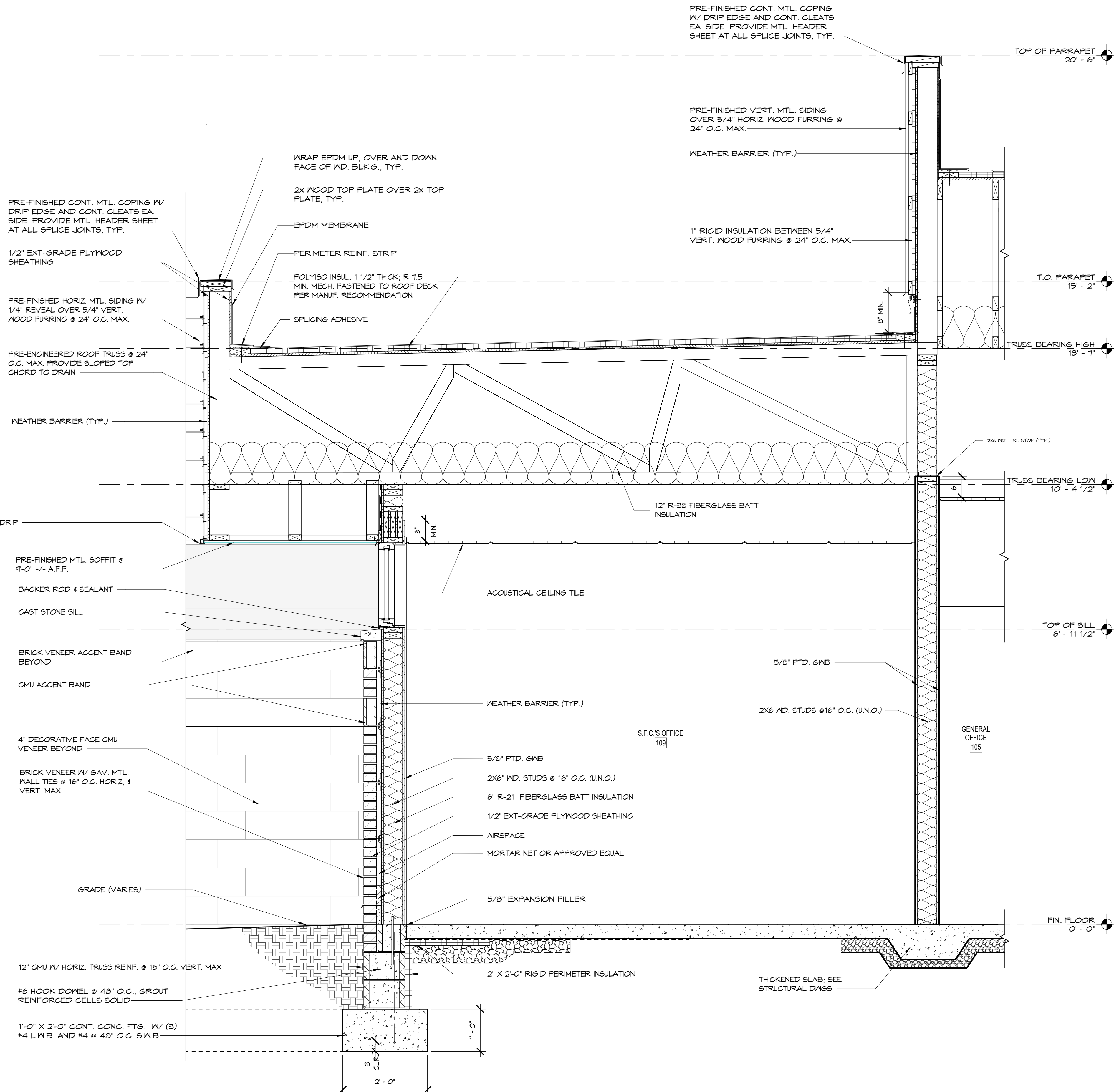
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LOBBY / WAITING ROOM

SCALE
3/4" = 1'-0"

1



S.F.C.'S OFFICE

SCALE
3/4" = 1'-0"

2

RELEASE / REVISION

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GENERAL NOTE:
SEE STRUCTURAL DWG. S1.9 FOR ADDITIONAL
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**NJ STATE POLICE
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COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183

Drawing

WALL SECTIONS 7

Scale

3/4" = 1'-0"

Job

21.124

Sheet

A3.7

Drawn

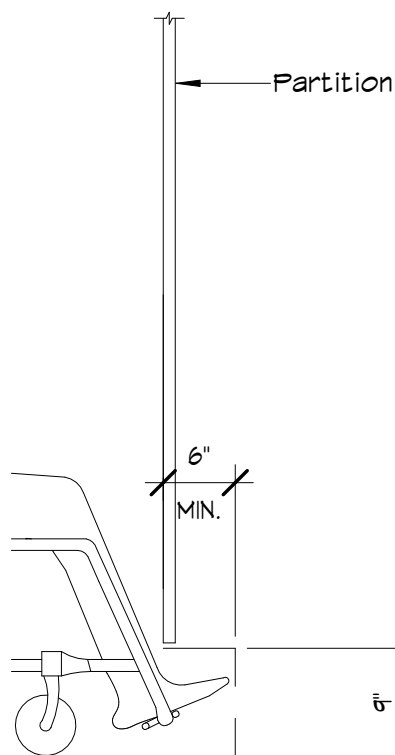
AA

Date

12/14/2023



Drawing		
WALL SECTIONS 8		
Scale	Job	Sheet A3.8
3/4" = 1'-0"	21.124	
Drawn	Date	
AA	12/14/2023	



TYPICAL TOILET ROOM ELEVATIONS



THE ACCESSIBLE DRINKING FOUNTAIN MEETS ALL OF THE REQUIREMENTS PER ANSI A117.1 SECTION 602.

- 1) AT THE LOW ACCESSIBLE DRINKING FOUNTAIN, A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305, POSITIONED FOR A FORWARD APPROACH, SHALL BE PROVIDED. KNEE AND TOE SPACE COMPLYING WITH SECTION 306 SHALL BE PROVIDED. THE CLEAR FLOOR SPACE SHALL BE CENTERED ON THE DRINKING FOUNTAIN.
- A) THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHED MAXIMUM FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN, INCLUDING BUMPERS.
- B) THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES MAXIMUM FROM THE WATER STREAM FROM THE SPROUTS WITHIN 3 INCHES OF THE FRONT OF THE DRINKING FOUNTAIN SHALL BE 30 DEGREES MAXIMUM, AND FROM THE SPOUTS BETWEEN 3 INCHES AND 5 INCHES FROM THE FRONT OF THE DRINKING FOUNTAIN SHALL BE 15 DEGREES MAXIMUM.



TYPICAL TOILET ROOM FIXTURE MOUNTING HEIGHTS

SCALE
1/4" = 1' 0"

RELEASE / REVISIONNOTES

1. NOT ALL TOILET ROOM ACCESSORIES
INDICATED ARE UTILIZED ON THIS PROJECT

2. THE FOLLOWING ACCESSORIES ARE PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR:

- a. TOILET TISSUE DISPENSERS
- b. PAPER TOWEL DISPENSERS
- c. SOAP DISPENSERS

ALL OTHER ACCESSORIES ARE PROVIDED AND
INSTALLED BY GC.

1. AS A BASIS OF DESIGN ALL TILE WALLS ARE TO BE 3" X 6" CERAMIC TILE IV 6" X 6" COVE BASE, ALL TILE FLOORS ARE TO BE 2" X 2" MOSAIC PORCELAIN TILE.
2. PROVIDE INTEGRAL CERAMIC TILE COVE BASE THROUGH SHOWER STALL AND ALL TOILET ROOMS.
3. PROVIDE 5/8" CEMENTITIOUS BOARD IN LIEU OF 5/8" MOISTURE RESISTANT GWS IN ALL SHOWER AREAS.
4. FOR A COMPLETE AND PROPER INSTALLATION OF THE KERDI SHEET APPLIED, BONDED WATERPROOF MEMBRANE USE ALL COMPONENTS AS DIRECTED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDING BUT NOT LIMITED TO WATERPROOF CORNERS, PIPE SLEEVES, MIXING VALVE SEAL, SEALING BONDING COMPOUND, ETC.
5. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE SCHÜTLER KERDI-SYSTEM INSTALLATIONS (BASIS OF DESIGN) OR APPROVED EQUAL.



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



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

TR DETAILS

SCALE
1" = 1' 0"

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Peter W. Farrell AIA	AI-1361

TR DETAILS

SCALE
1" = 1' 0"

Project

NJ STATE POLICE
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PORT NORRIS

2007 HIGHLAND ST, PORT NORRIS
COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183

Drawing

TYP. TOILET ROOM
PLANS & ELEVATIONS
DETAILS

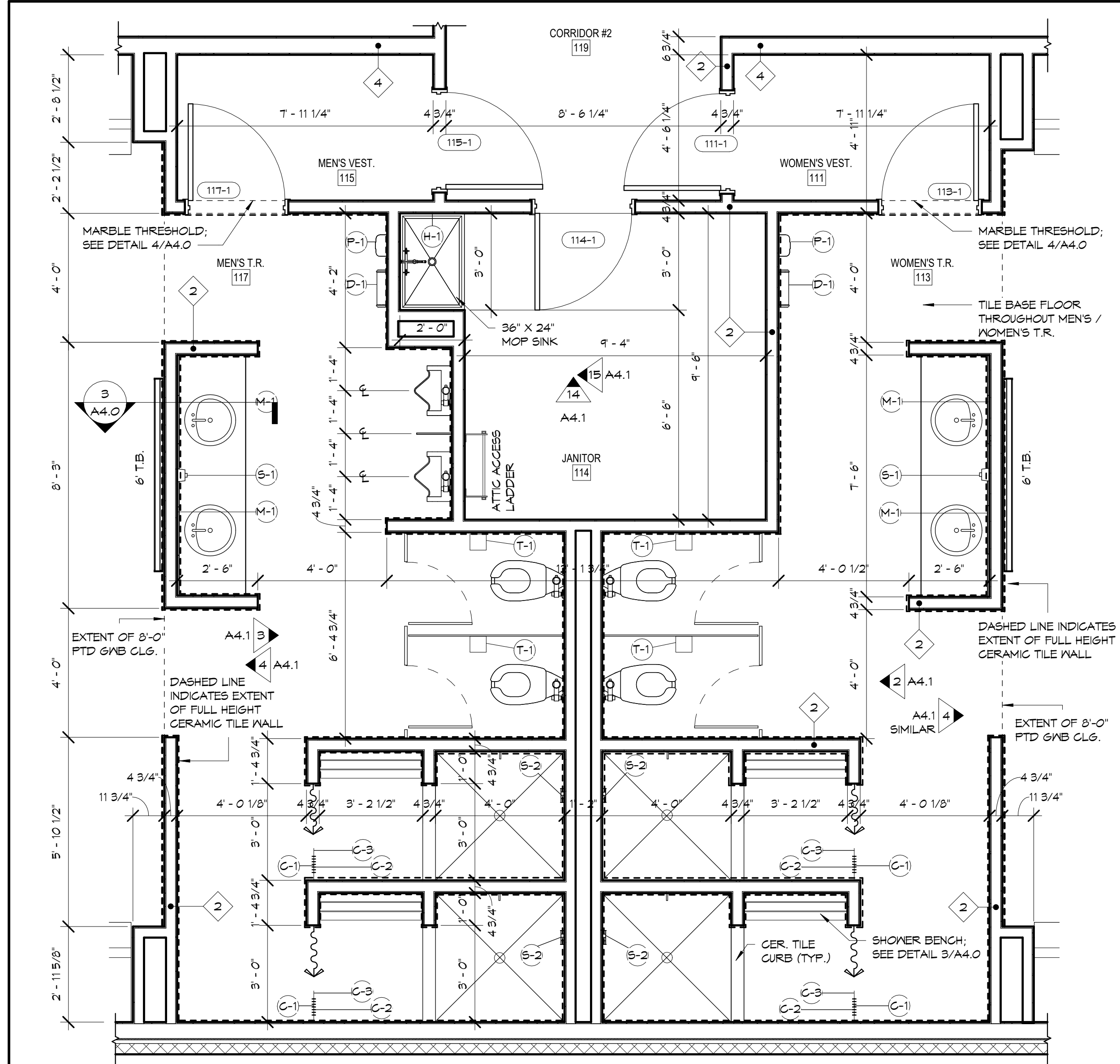
Scale

Job

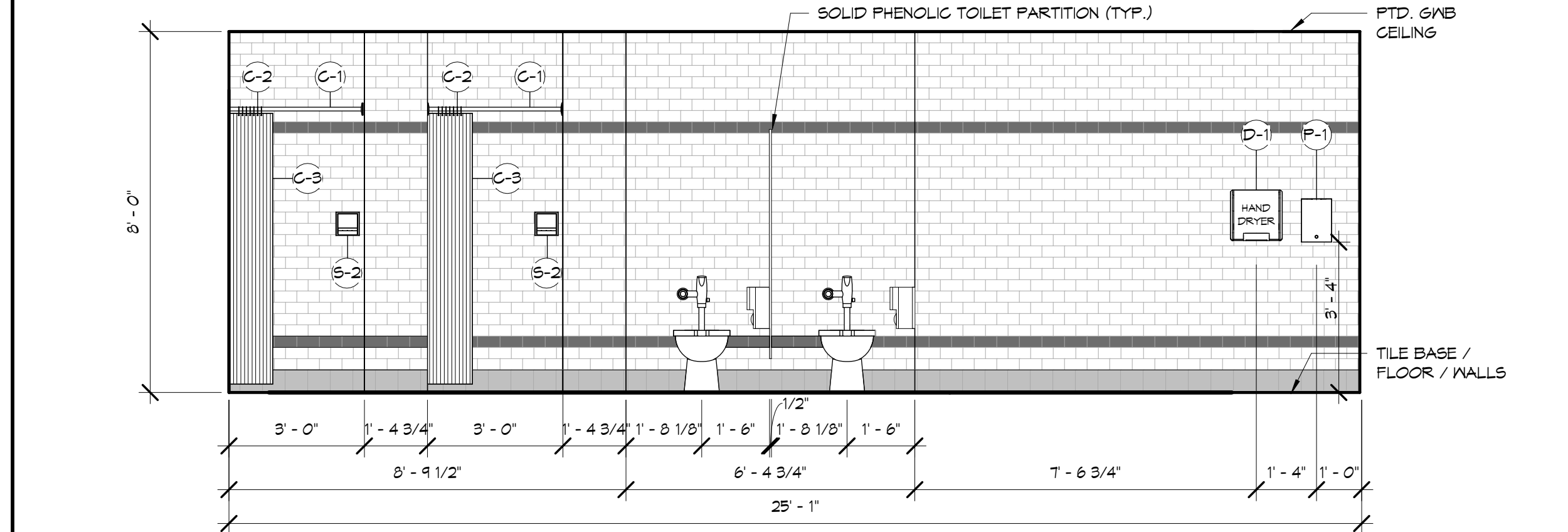
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A4.0

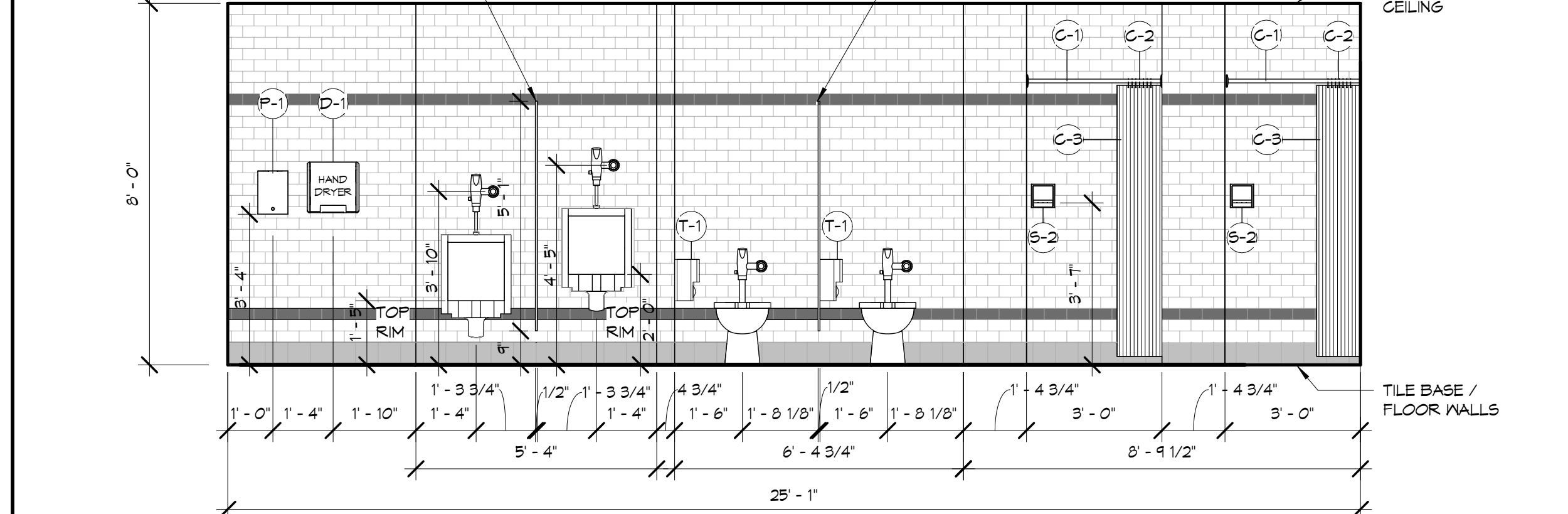
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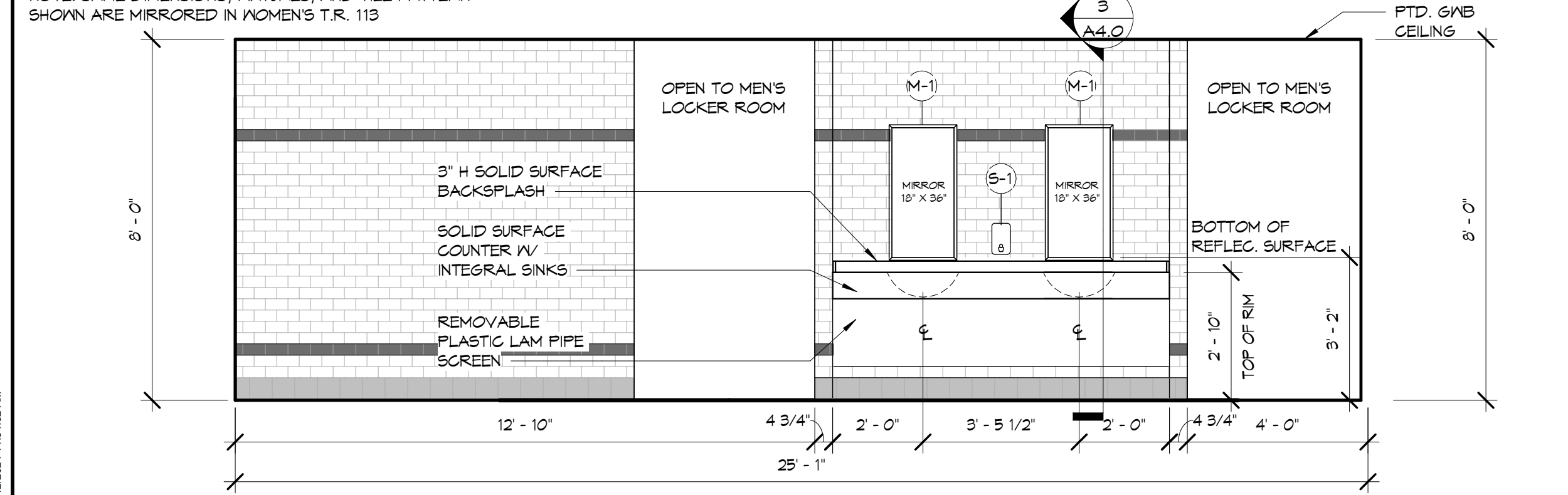
MEN'S AND WOMEN'S T.R. SCALE 3/8" = 1'-0" 1



WOMEN'S T.R. 113 - W SCALE 3/8" = 1'-0" 2



MEN'S T.R. 117 - E SCALE 3/8" = 1'-0" 3



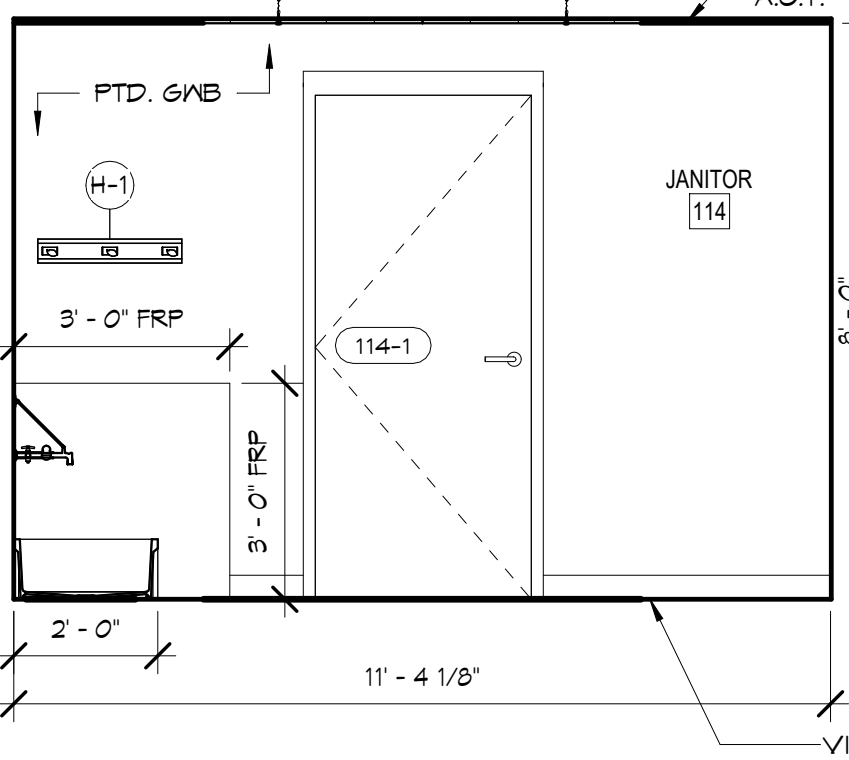
MEN'S T.R. 117 - W SCALE 3/8" = 1'-0" 4

PRINTED: 1/20/2024 11:50:30 AM

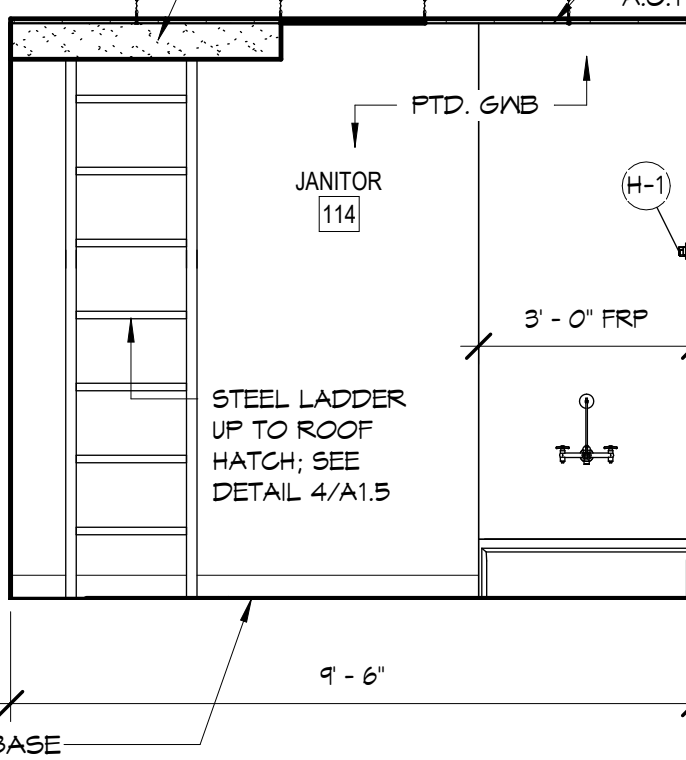
		(B-1)	(B-2)	(B-3)	(C-1)	(C-2)	(C-3)	(CH-1)	(D-1)	(H-1)	(M-1)	(M-2)	(P-1)	(S-1)	(S-2)	(T-1)
ROOM NUMBER	ROOM NAME	GRAB BARS UG3X-A	GRAB BARS UG3X-A	GRAB BARS UG3X-A	CURTAIN ROD 1" DIA UNIK-K36	CURTAIN ROD HOOKS UNIK-11	CURTAIN U250A-4812	SURFACE MOUNTED BABY CHANGING TABLE KB500-01	XLERATOR HAND DRYER XL-55-EGO	MOP HOLDING STRIP U112A	MIRROR U700SB-10 36	STAINLESS STEEL MIRROR U5140	PAPER TOWEL (BY OWNER)	SOAP DISPENSER (BY OWNER)	SOAP DISH (BY OWNER)	TOILET TISSUE DISPENSER (BY OWNER)
113	WOMEN'S TOILET ROOM	18'	36'	42'	2	18	2				2		1	1	2	2
114	JANITOR CLOSET															
117	MEN'S TOILET ROOM				2	18	2		1	1	2		1	1	2	2
129	HOLDING TOILET ROOM															
133	PROCESS TOILET ROOM	1		1								1		1		1
134	JANITOR CLOSET #2									1						
139	LOBBY TOILET ROOM								1		1			1		1
140	MOTHER'S ROOM							1			1			1		
141	WITNESS DUTY SGT. TOILET ROOM	1	1	1					1				1	1		1

- NOTES:
1. ALL ACCESSORIES N.I.C.
2. LISTED ACCESSORIES MODEL NO.'S ARE BY A.J.W. STAINLESS STEEL IV SATIN FINISH (GRAB BARS FEENED), UNLESS NOTED OTHERWISE.
3. CONTRACTOR TO PROVIDE SOLID POND BLOCKS WITH WALLS AS REQUIRED TO MOUNT ALL ACCESSORIES AS PER THE MANUFACTURER'S SPECIFICATIONS.
4. ACCESSORIES PROVIDED BY OWNER ARE TO BE INSTALLED BY S.C.
5. COORDINATE FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES WITH OWNER.
6. EMPTY CHANGING STATION TO BE MANUFACTURED BY KOLMA KANE.

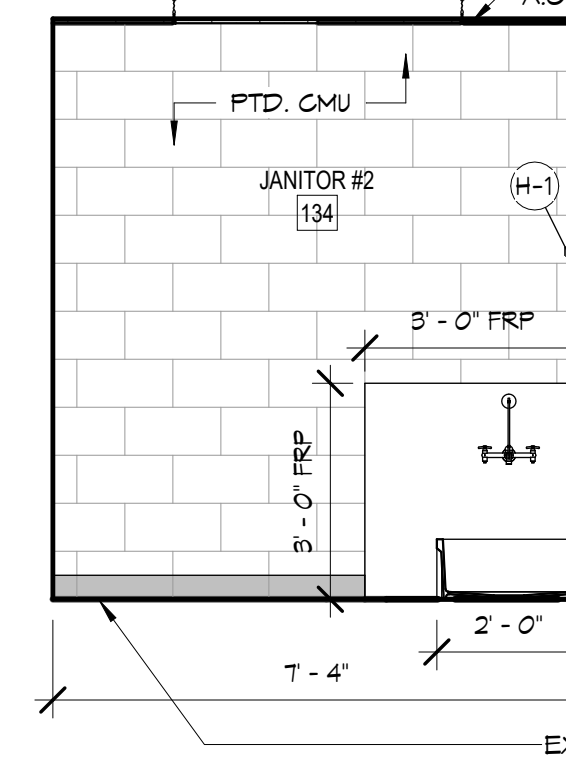
NOTE: PARTIAL FRP IS ON THE THREE WALLS SURROUNDING THE MOP SINK WITH 3'-0" AS THE HEIGHT.



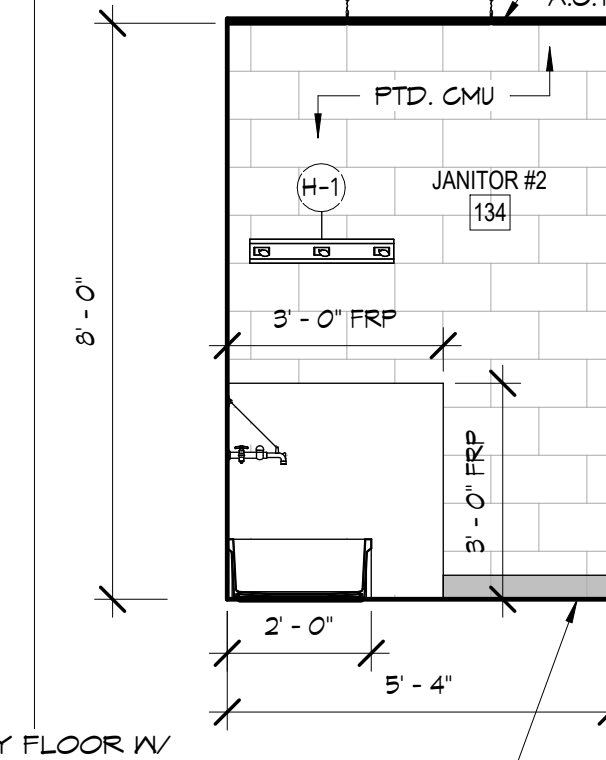
JANITOR 114 - N SCALE 3/8" = 1'-0" 14



JANITOR 114 - W SCALE 3/8" = 1'-0" 15

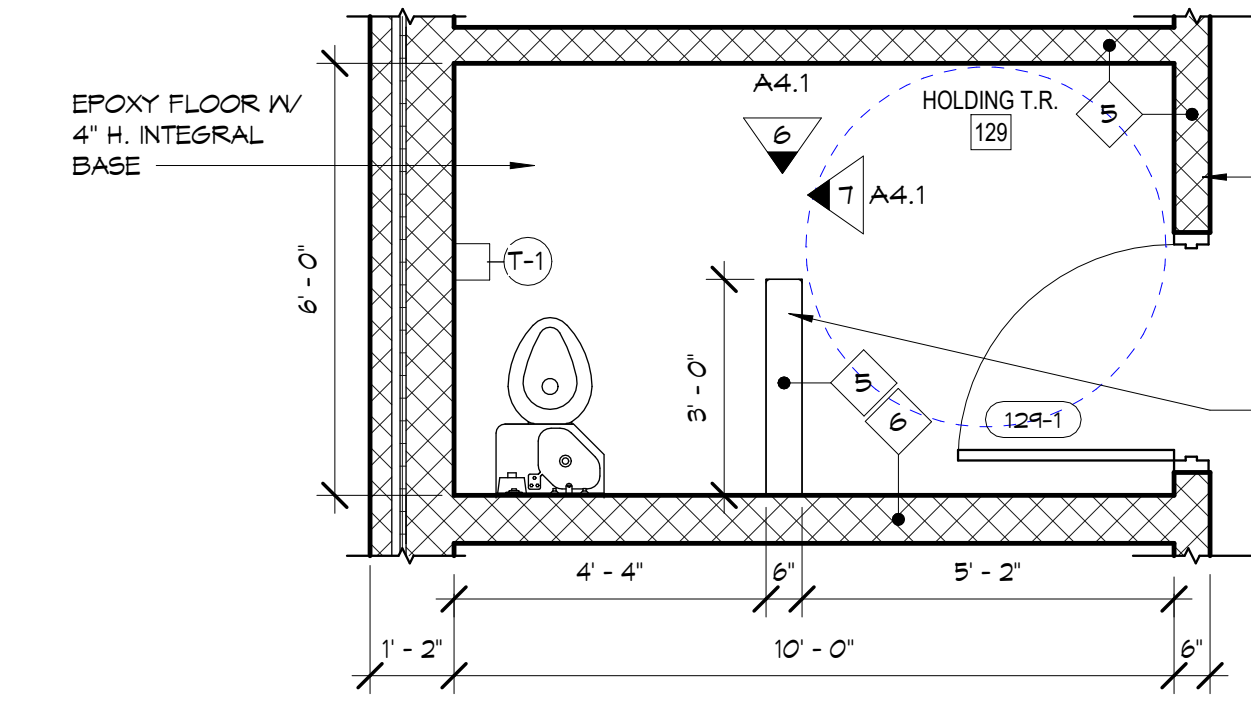


JANITOR #2 134 - N SCALE 3/8" = 1'-0" 16

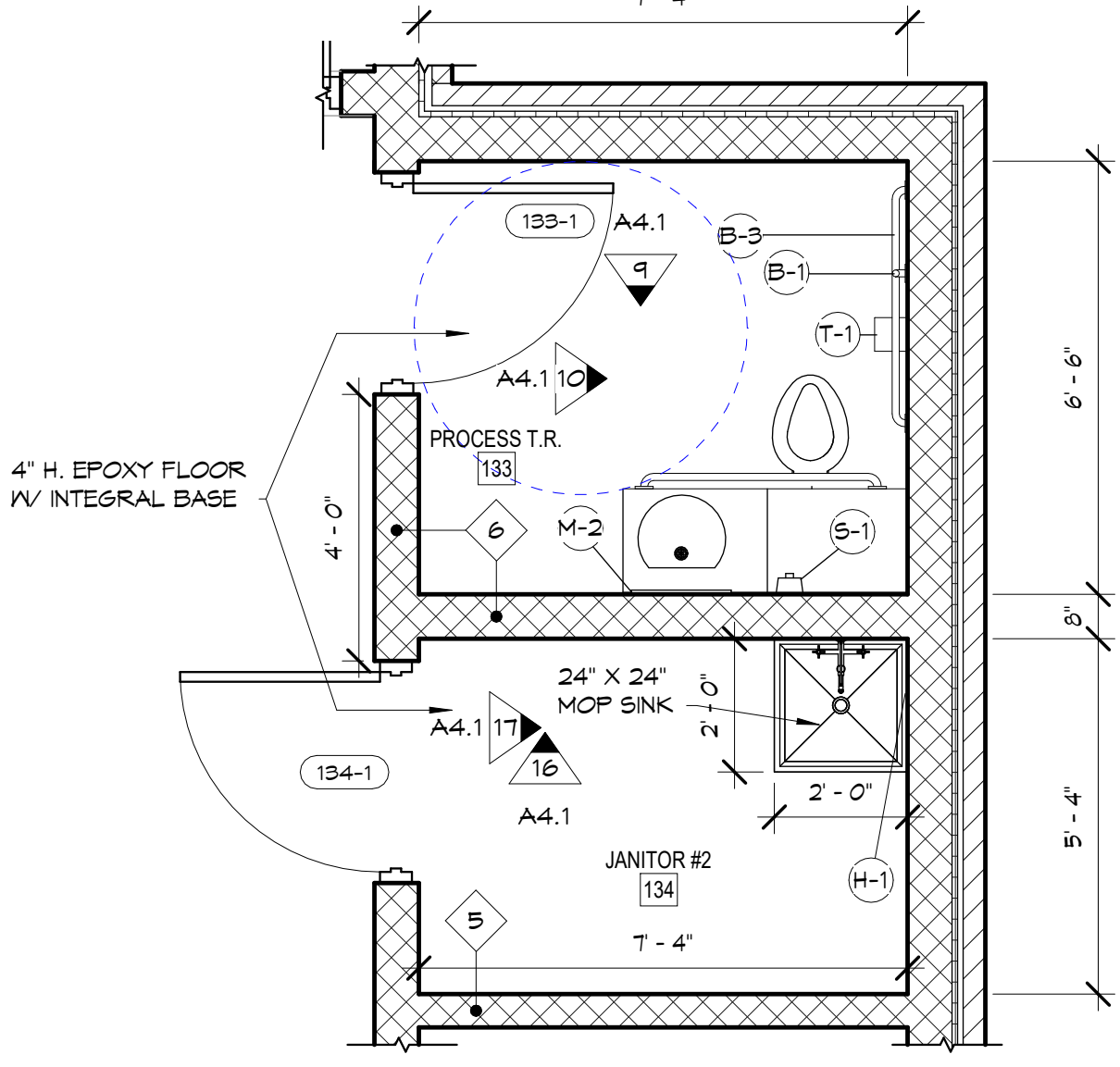


JANITOR #2 134 - E SCALE 3/8" = 1'-0" 17

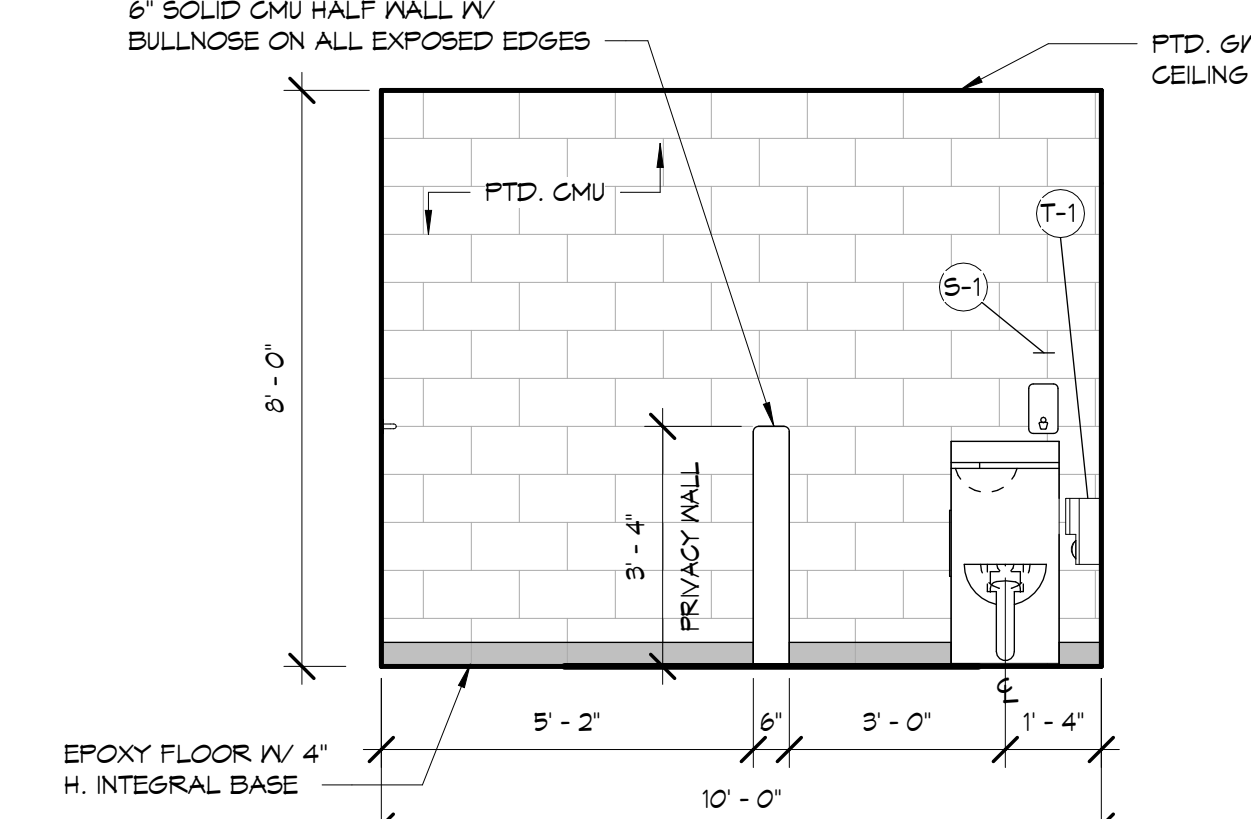
NOTE: COORDINATE INSTALLATION OF REMOTE FLUSH AND ALL FIXTURE OPTIONS WITH M.P.E. DRAWINGS.



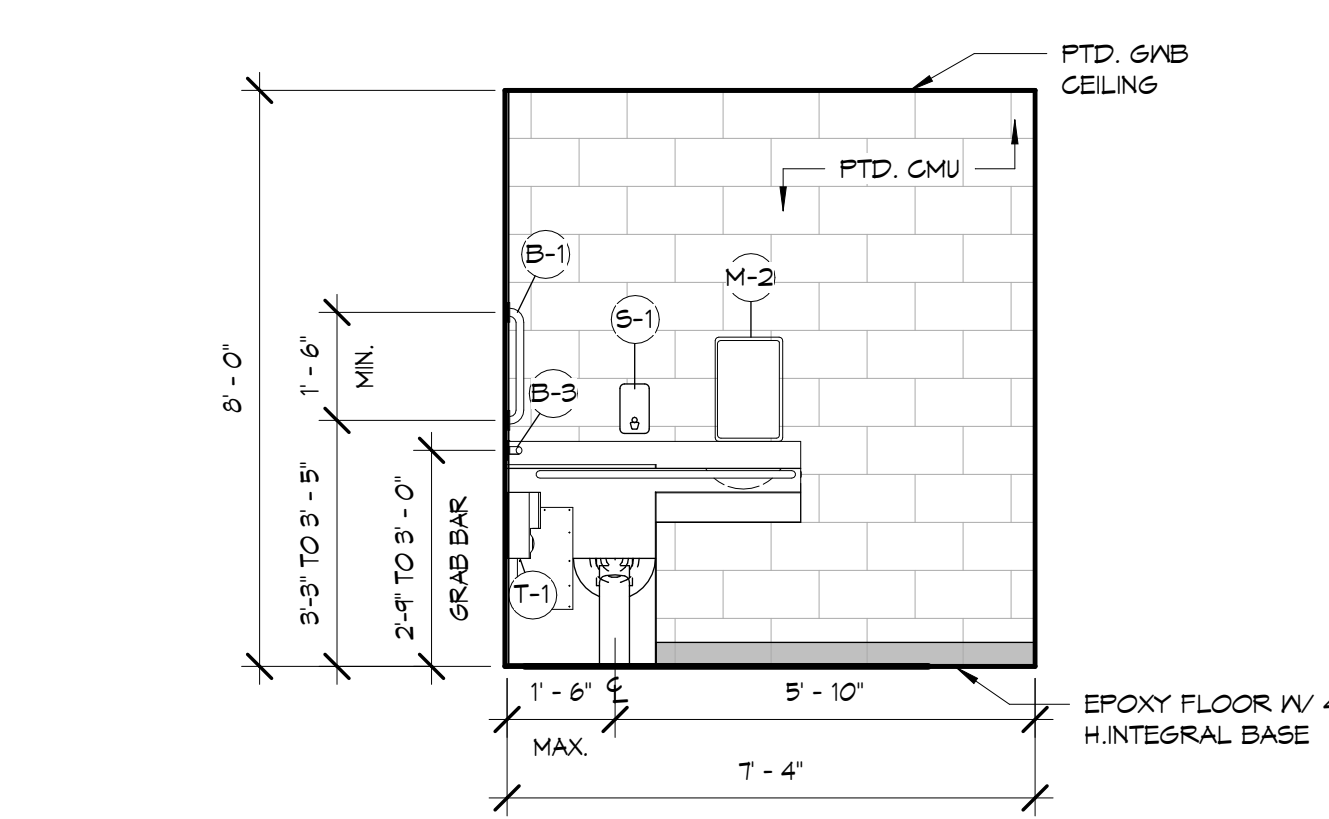
HOLDING T.R. SCALE 3/8" = 1'-0" 5



PROCESS T.R. AND JANITOR'S ROOM SCALE 3/8" = 1'-0" 8

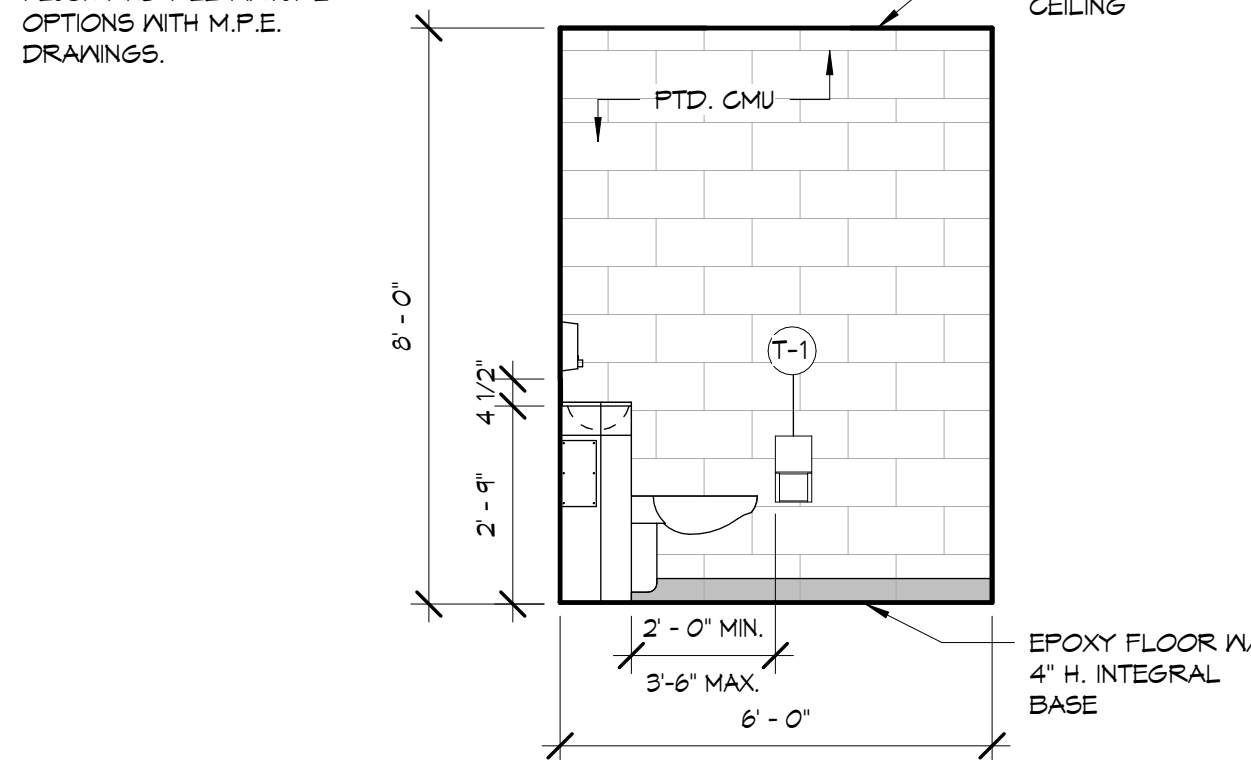


HOLDING T.R. 129 - S SCALE 3/8" = 1'-0" 6

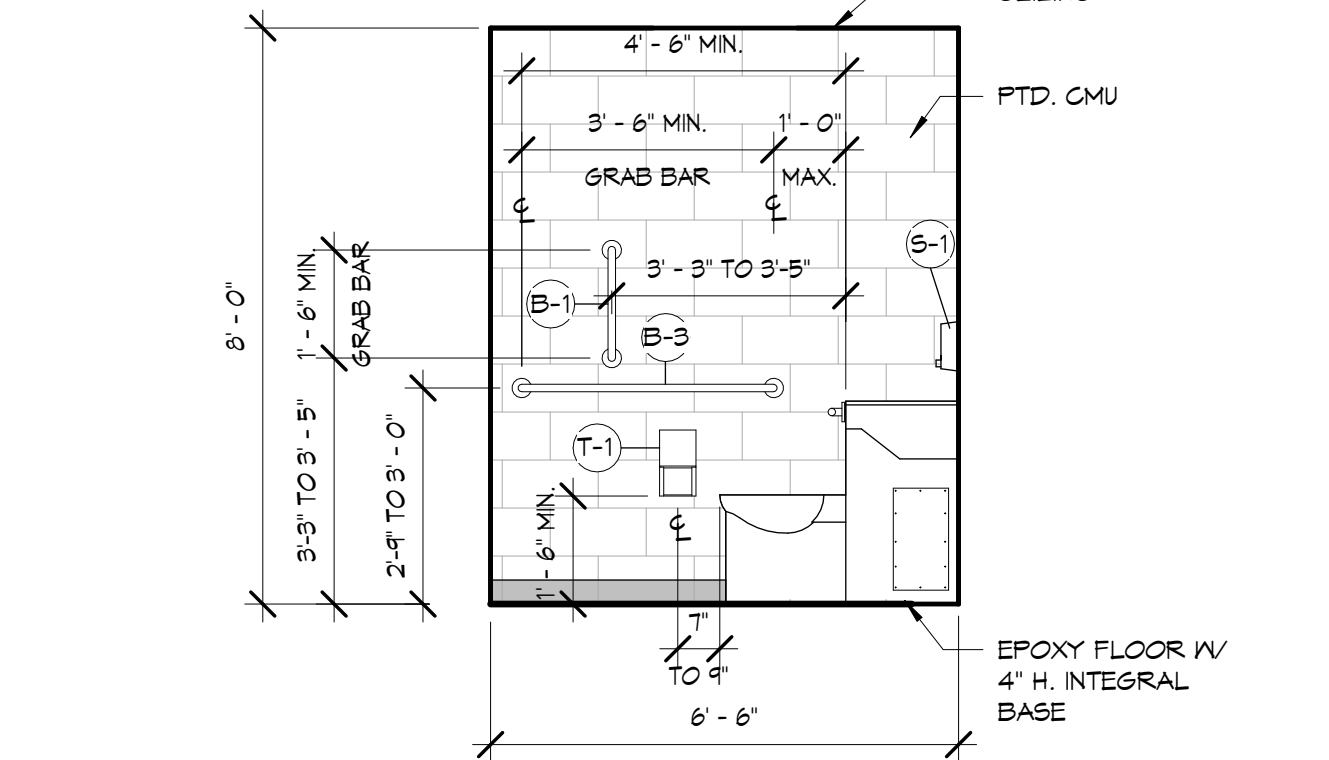


PROCESS T.R. 133 - S SCALE 3/8" = 1'-0" 9

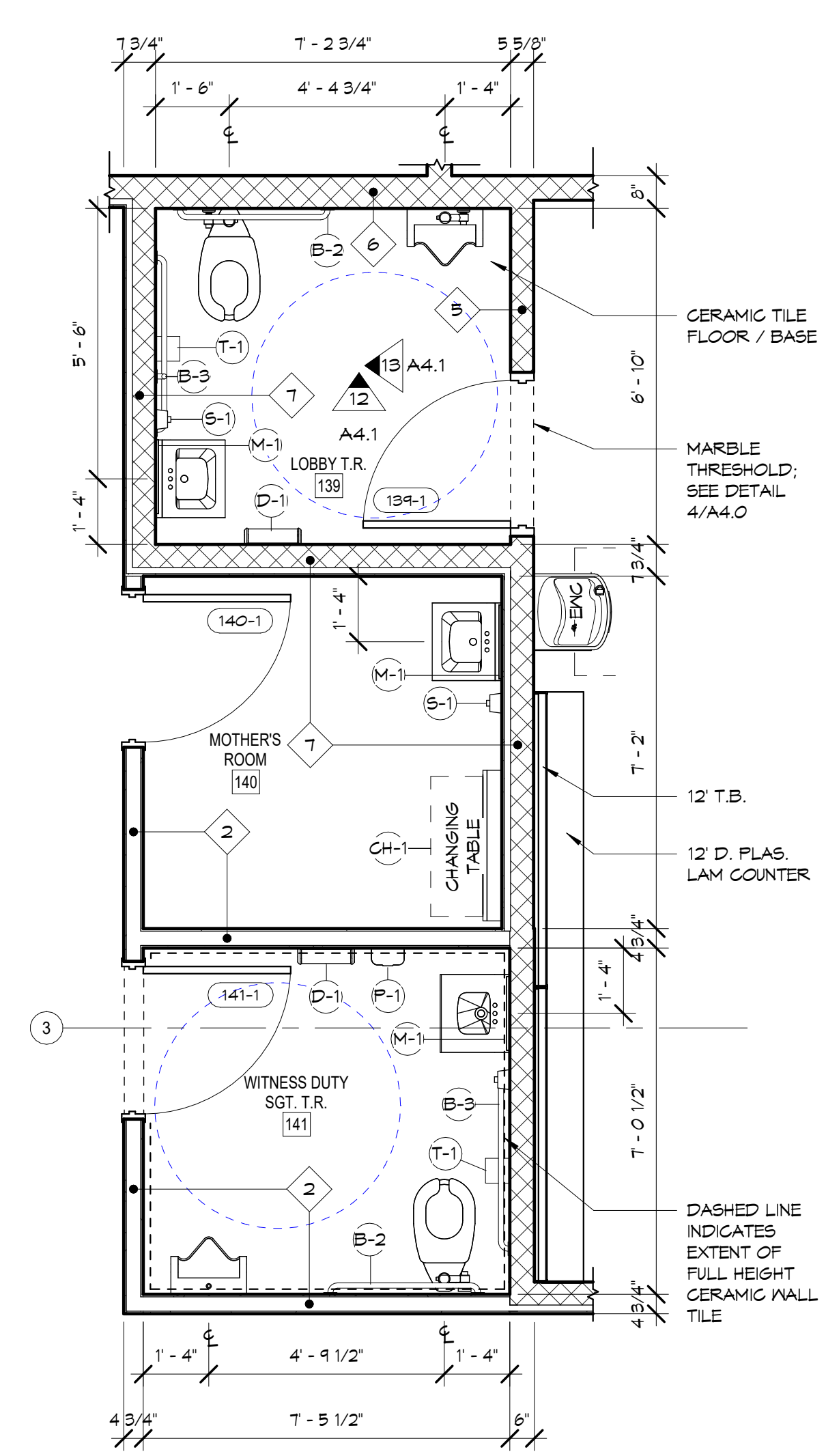
NOTE: COORDINATE INSTALLATION OF REMOTE FLUSH AND ALL FIXTURE OPTIONS WITH M.P.E. DRAWINGS.



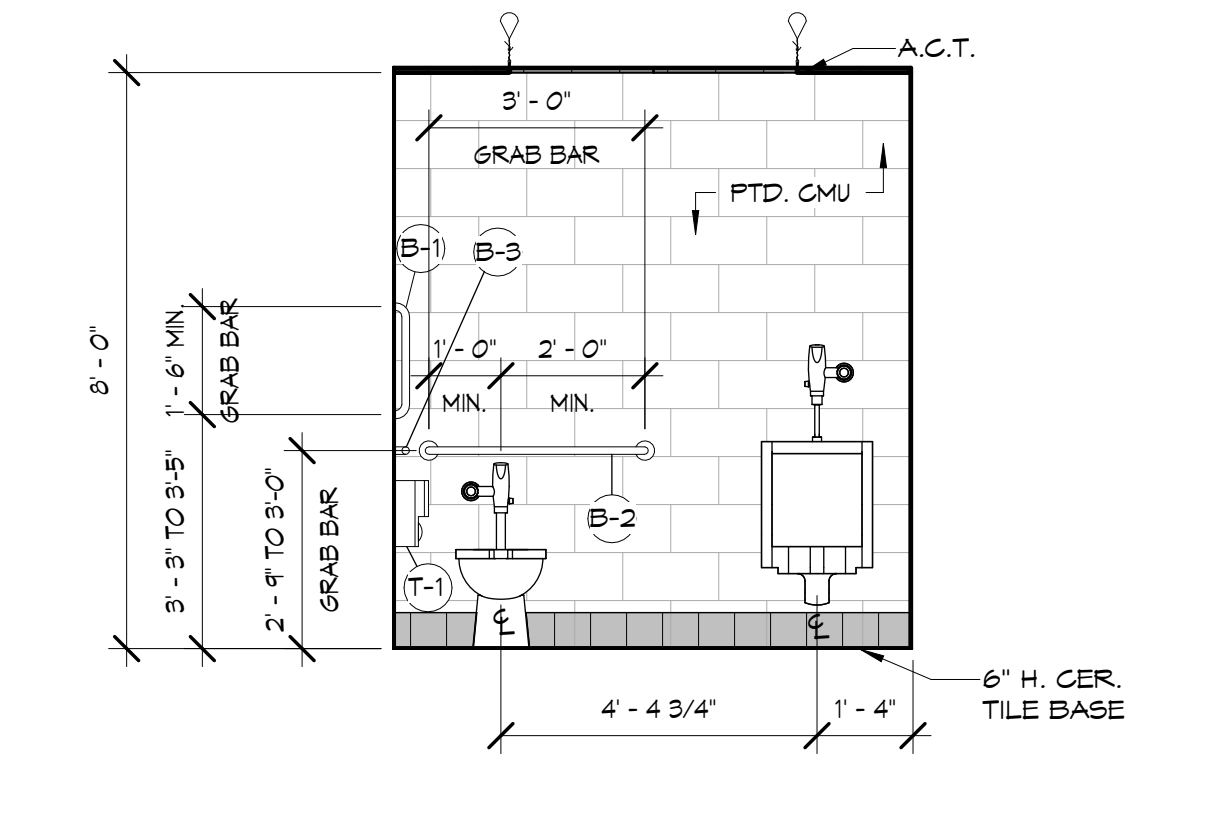
HOLDING T.R. 129 - W SCALE 3/8" = 1'-0" 7



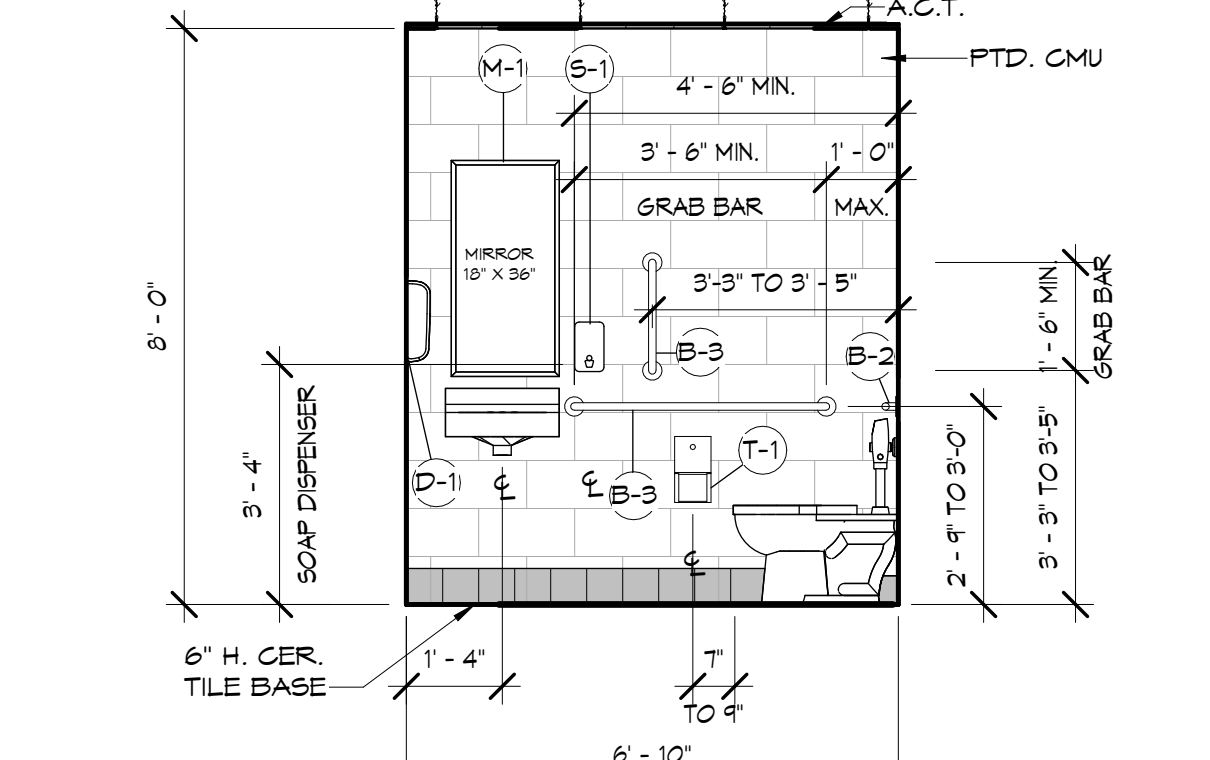
PROCESS T.R. 133 - E SCALE 3/8" = 1'-0" 10



LOBBY T.R., MOTHER'S ROOM, AND SGT. T.R. SCALE 3/8" = 1'-0" 11



LOBBY T.R. 139 - N SCALE 3/8" = 1'-0" 12



LOBBY T.R. 139 - W SCALE 3/8" = 1'-0" 13

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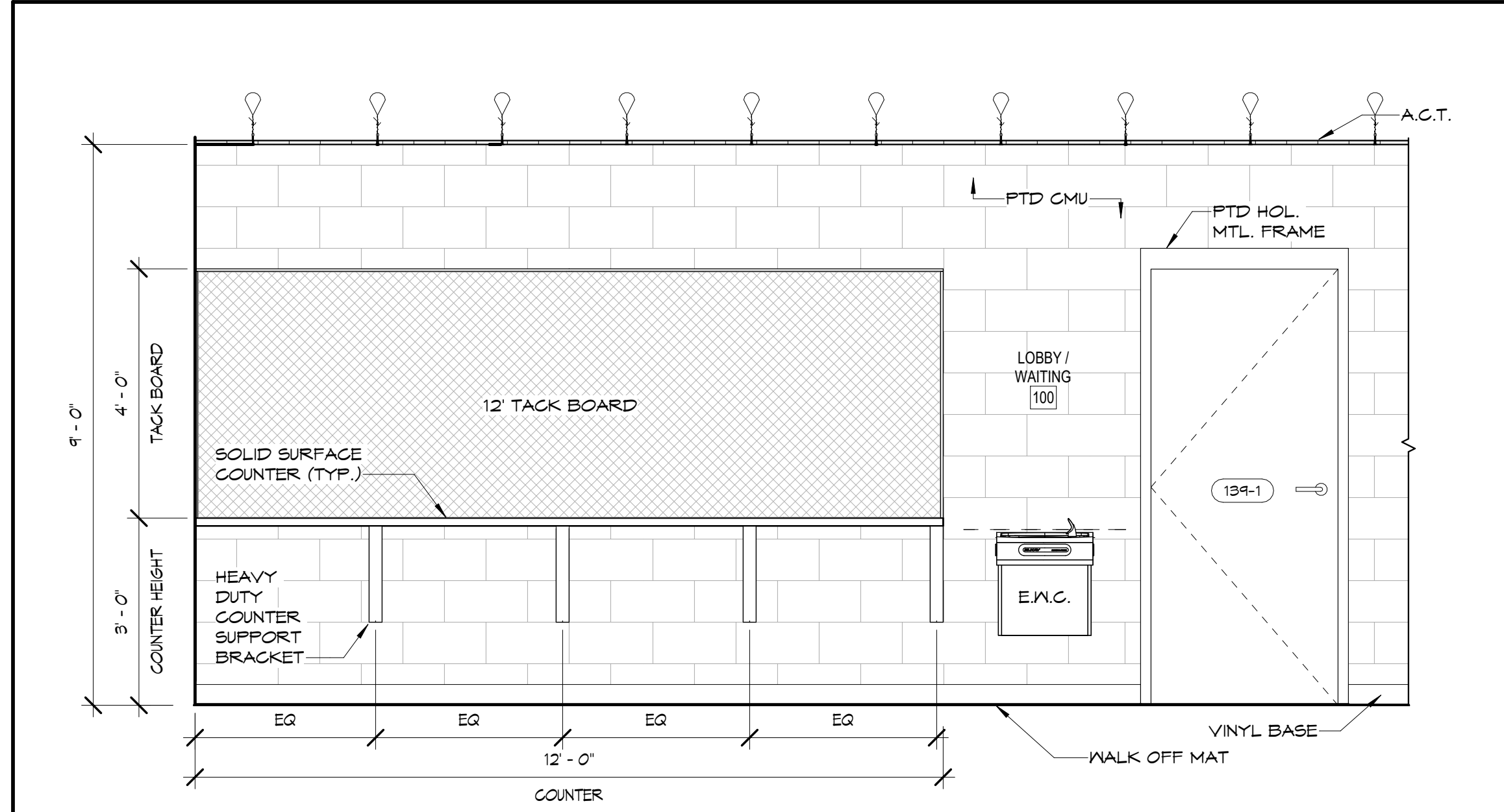
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Peter W. Farrell AIA AI-13618

Project
NJ STATE POLICE TROOP A PORT NORRIS
2007 HIGHLAND ST, PORT NORRIS COMMERCIAL TOWNSHIP, NJ 08349 LOT: 14 BLOCK: 183

Drawing
ENLARGED TOILET ROOM PLANS & ELEVATIONS TOILET ACCESSORIES SCHEDULE

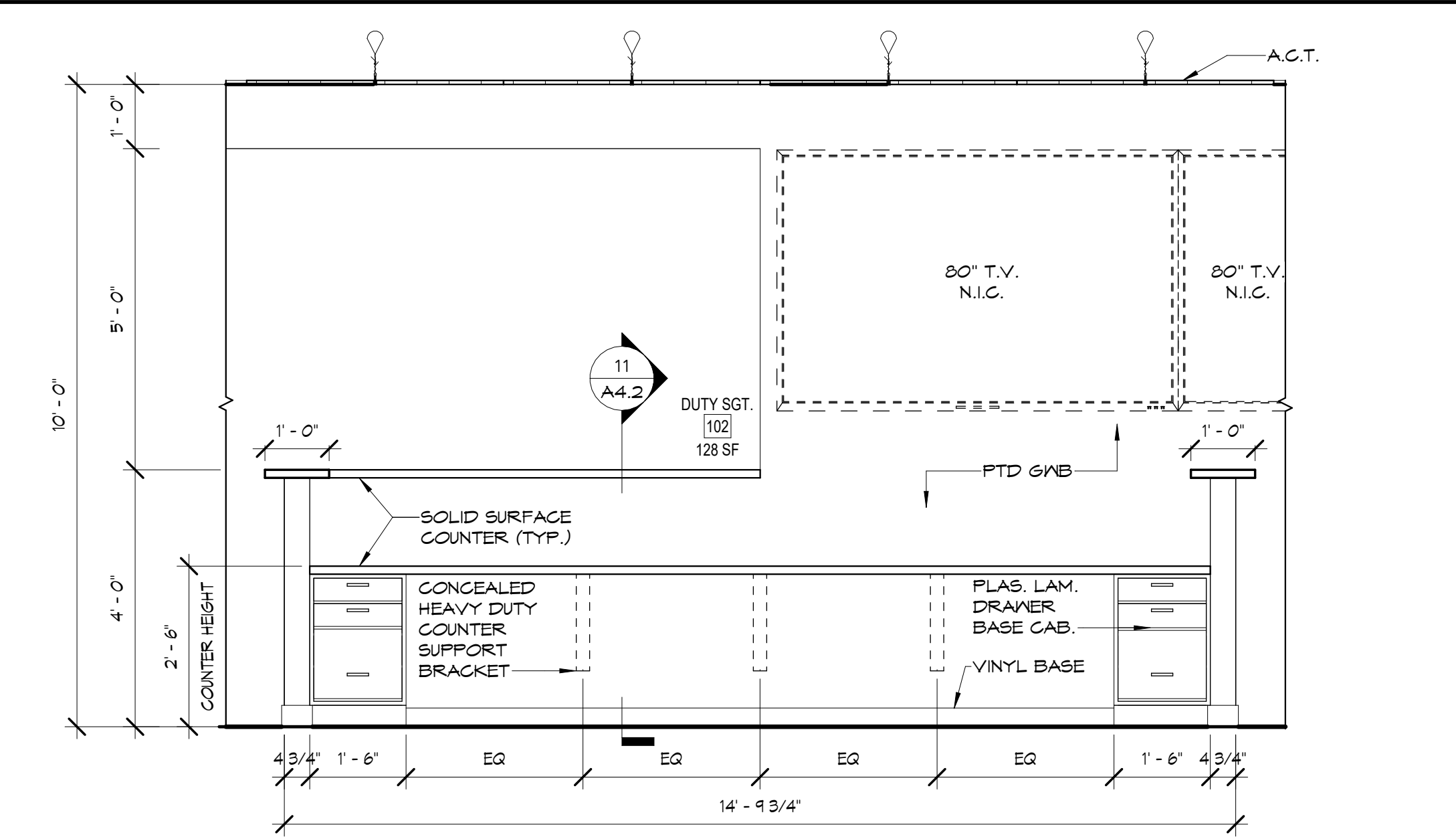
Scale	Job	Sheet
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Drawn AA	Date 12/14/2023	



LOBBY 100

SCALE
1/2" = 1'-0"

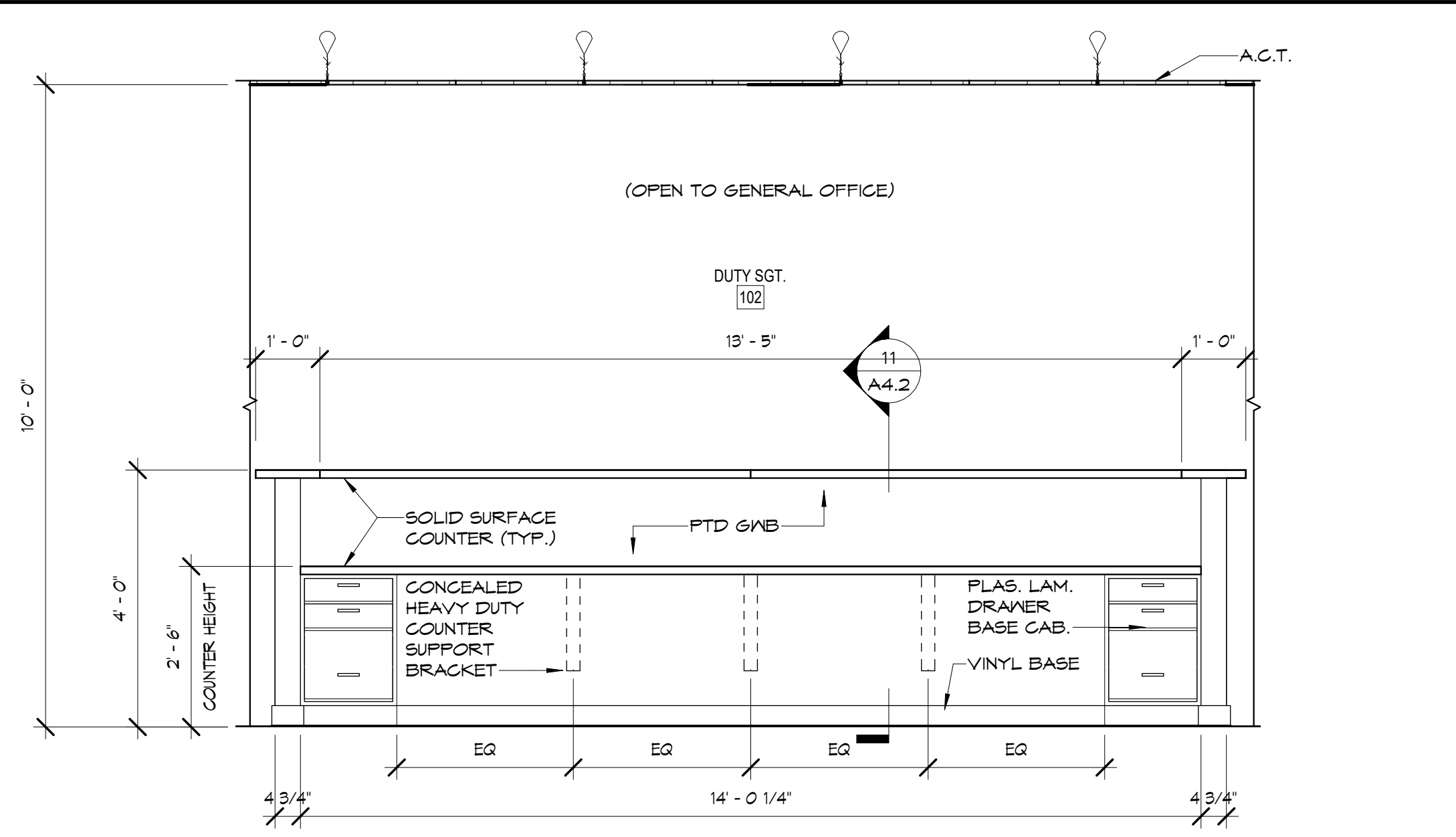
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DUTY SGT. 102-N

SCALE
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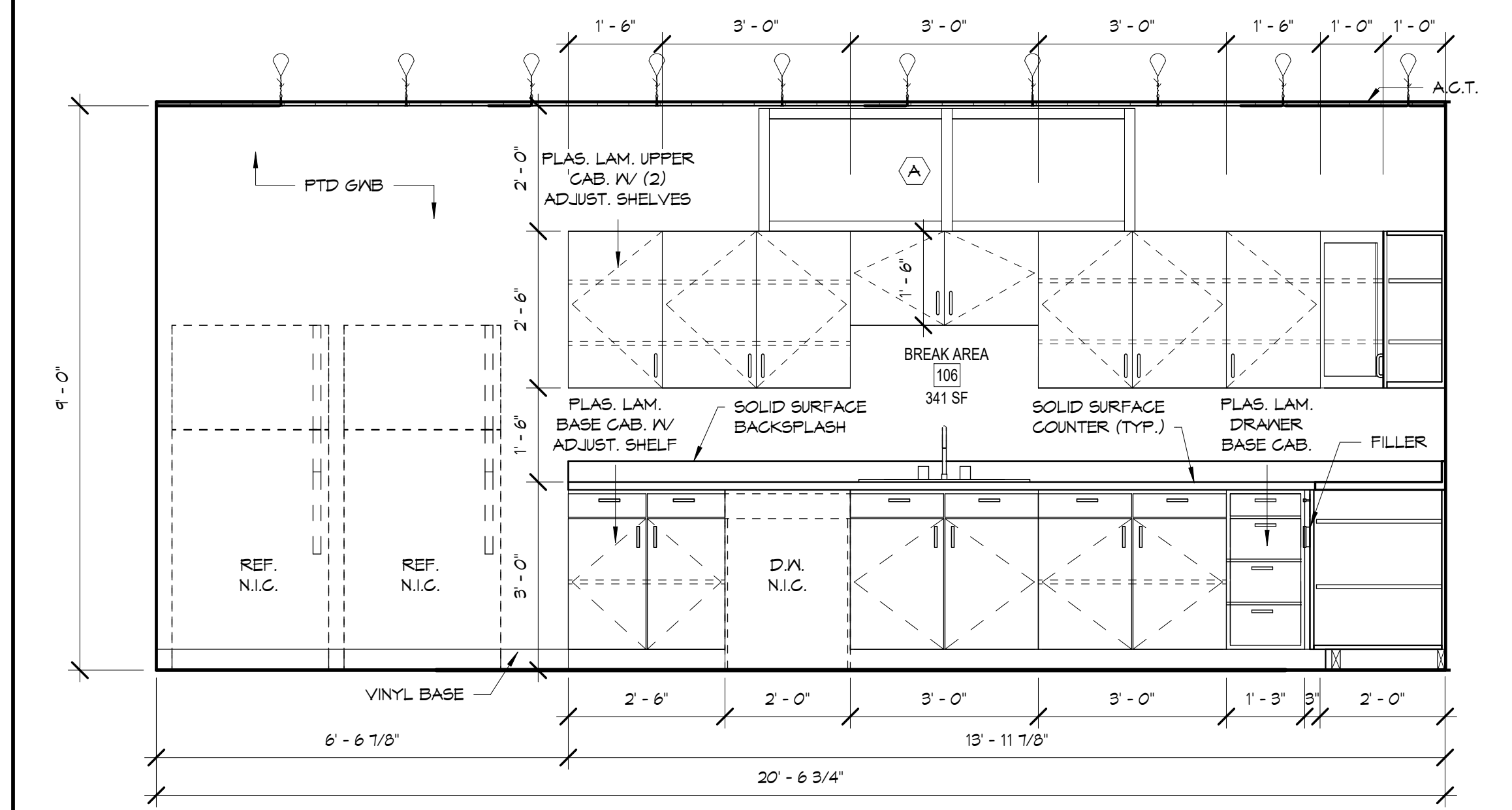
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DUTY SGT. 102-S

SCALE
1/2" = 1'-0"

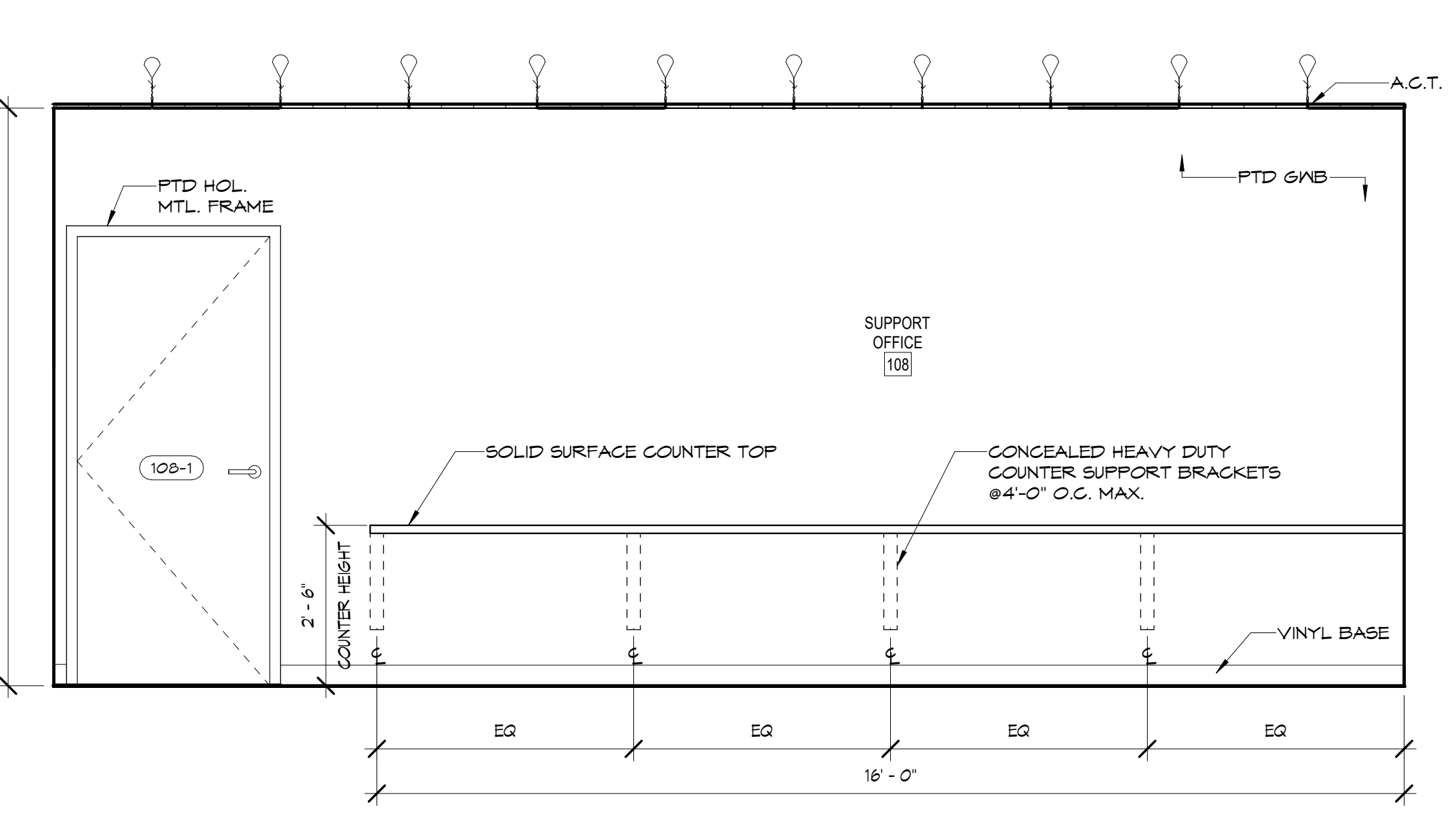
3



BREAK AREA 106-E

SCALE
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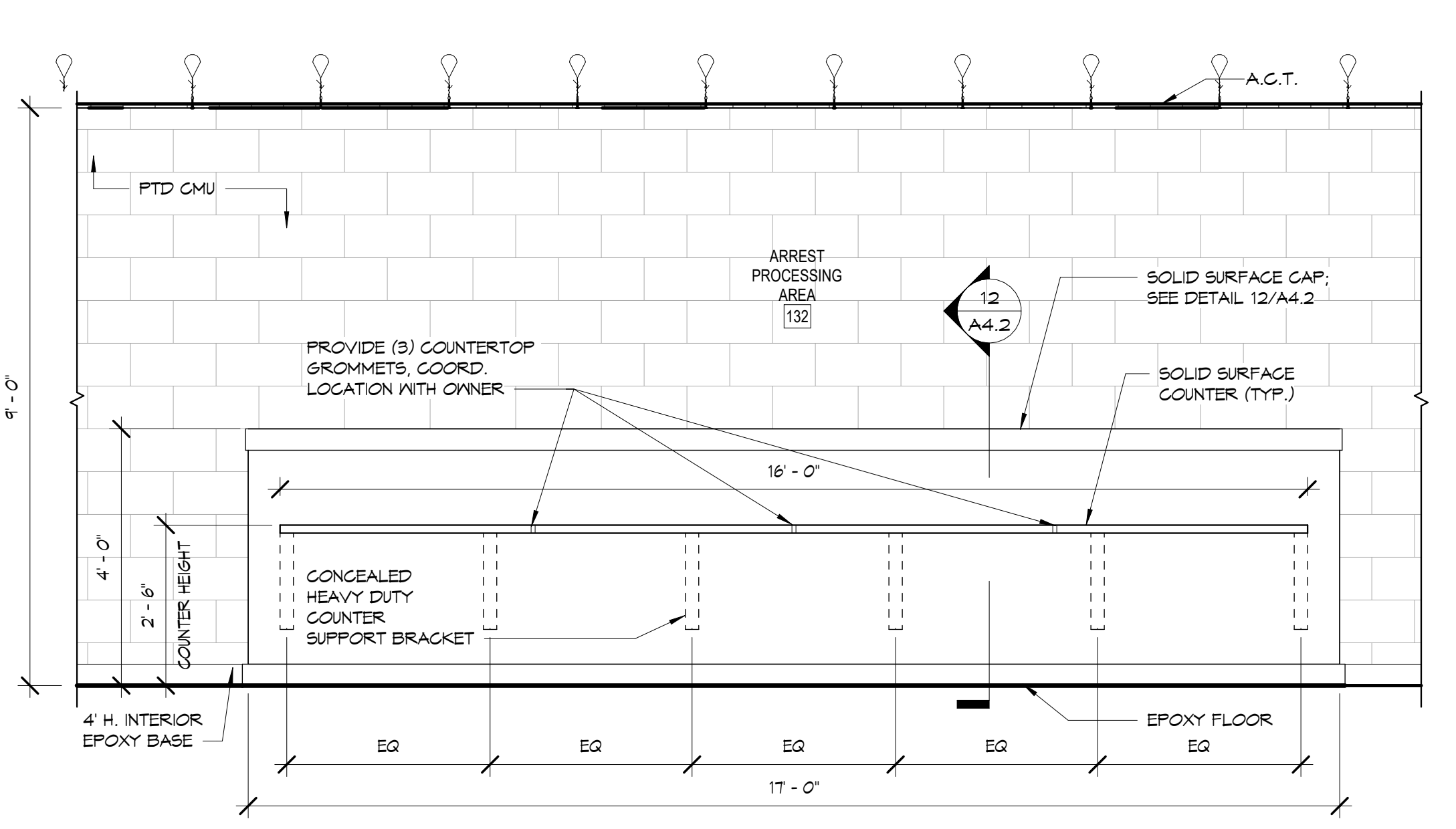
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SUPPORT OFFICE 108-N

SCALE
1/2" = 1'-0"

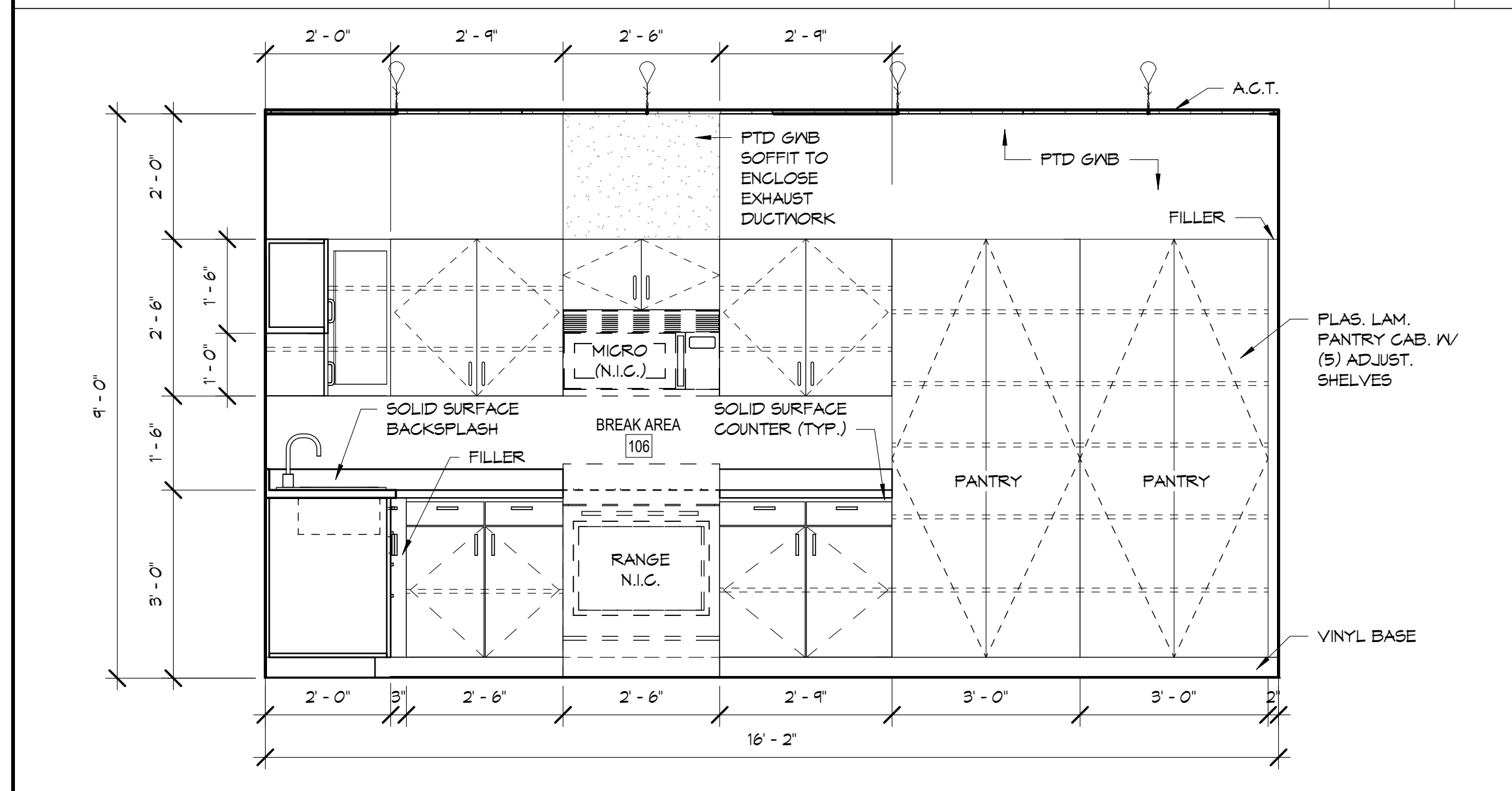
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ARREST PROCESS 132-N

SCALE
1/2" = 1'-0"

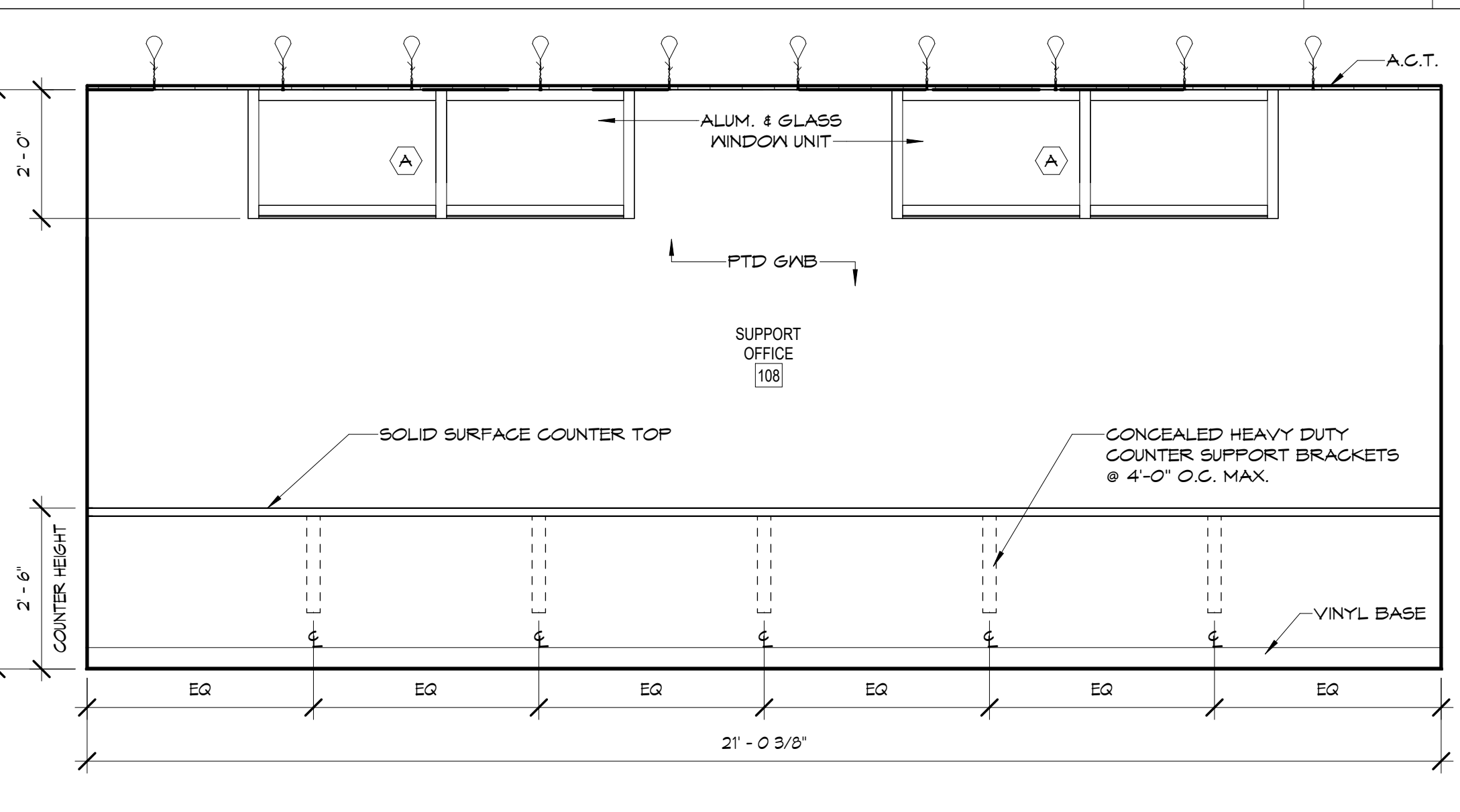
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BREAK AREA 106-S

SCALE
1/2" = 1'-0"

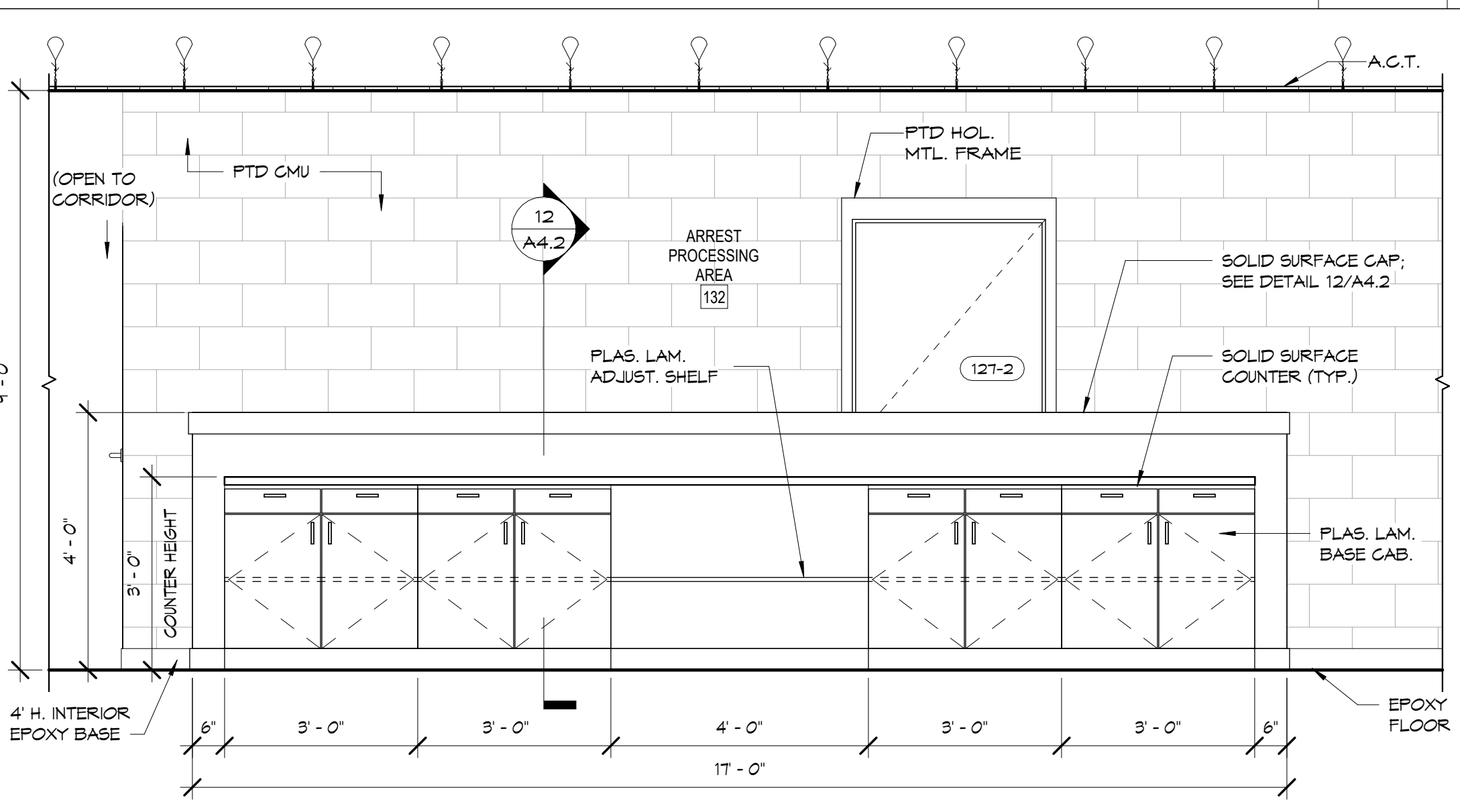
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SUPPORT OFFICE 108-S

SCALE
1/2" = 1'-0"

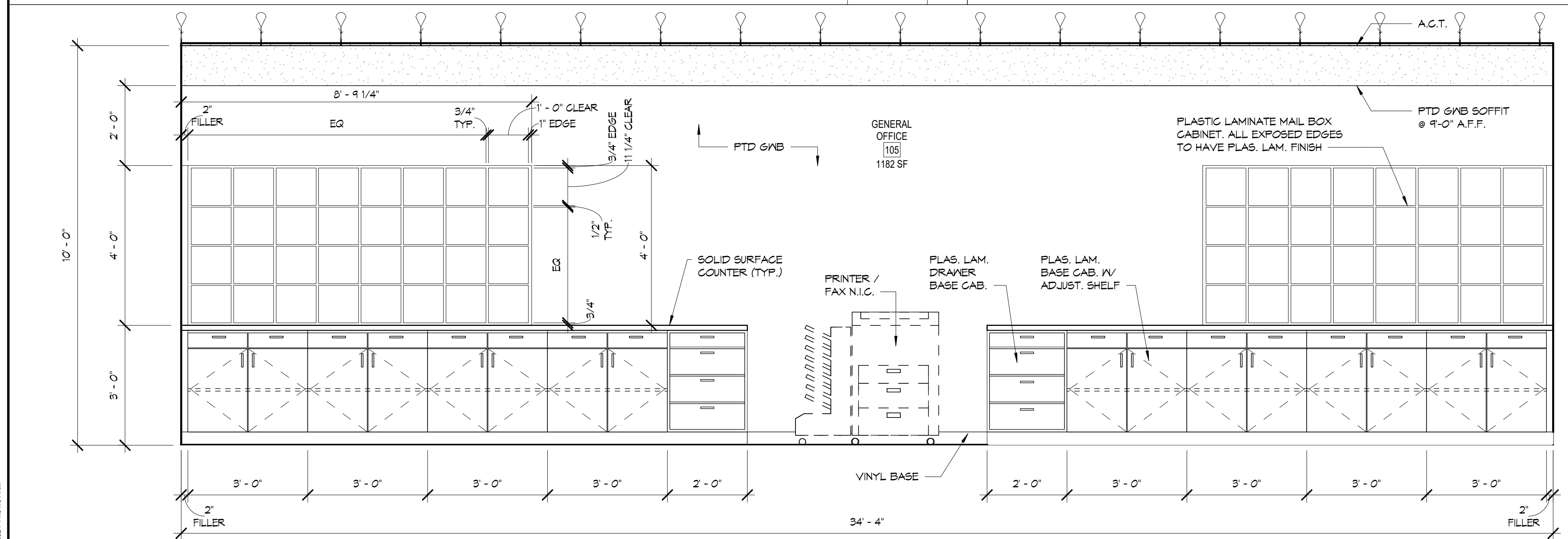
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ARREST PROCESS 132-S

SCALE
1/2" = 1'-0"

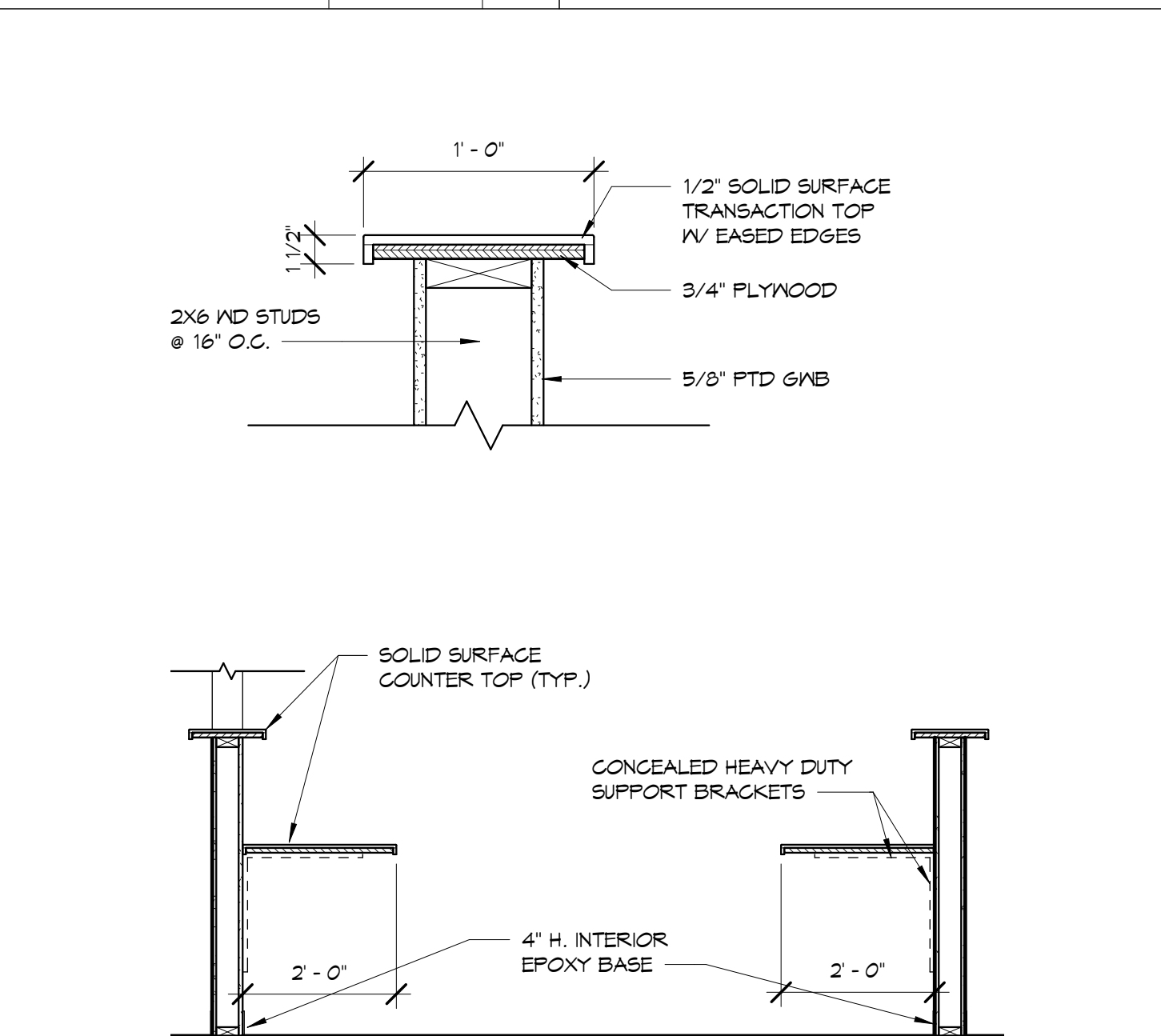
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GENERAL OFFICE 105-W

SCALE
1/2" = 1'-0"

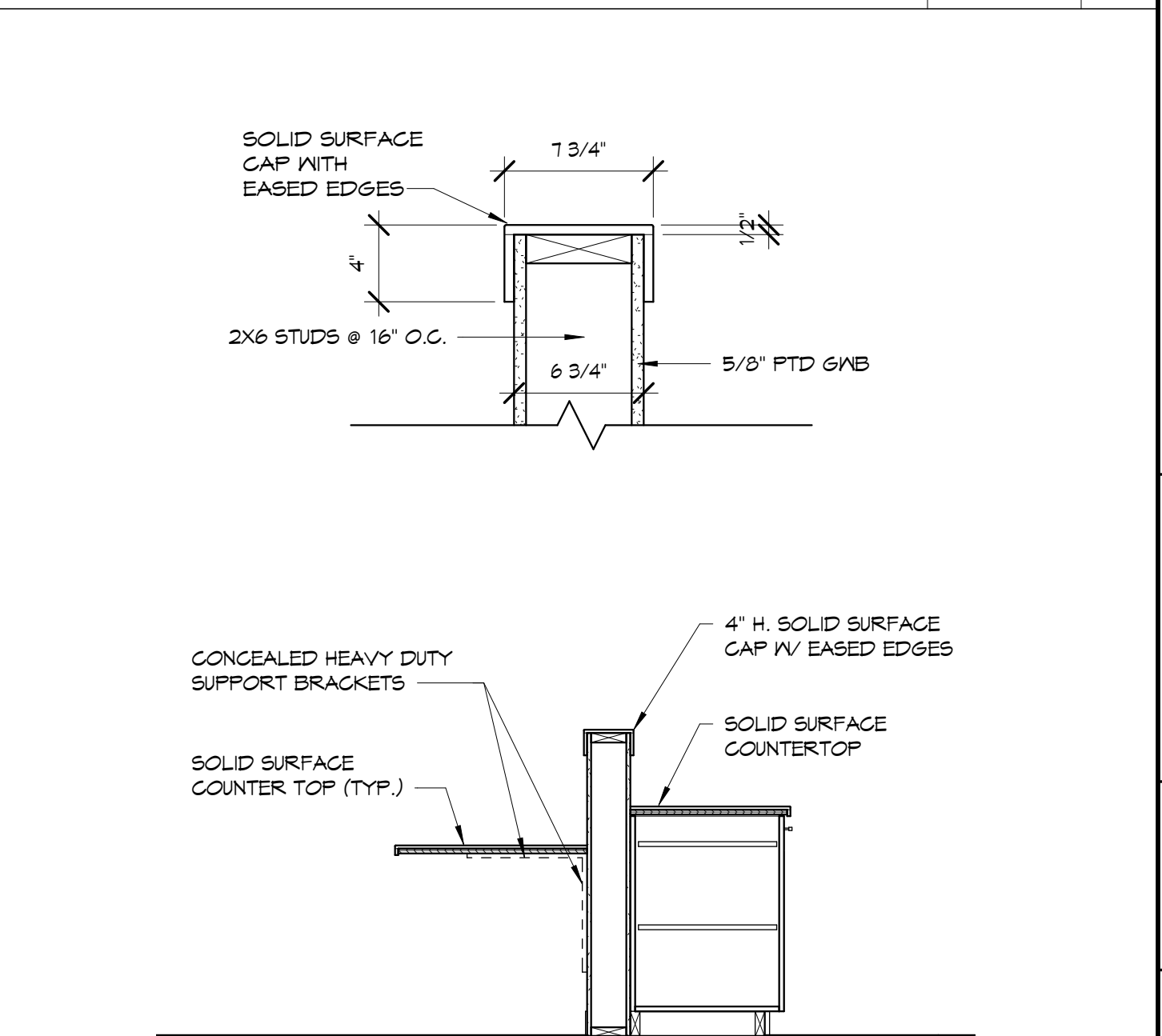
10



DUTY SGT. COUNTER DETAIL

SCALE
1/2" = 1'-0"

11



ARREST PROCESS COUNTER DETAIL

SCALE
1/2" = 1'-0"

12

RELEASE / REVISION		
No.	Date	Description
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Peter W. Farrell AIA AI-13618

Project
**NJ STATE POLICE
TROOP A
PORT NORRIS**
2007 HIGHLAND ST, PORT NORRIS
COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183

Drawing
**INTERIOR ELEVATIONS
& DETAILS**

Scale	Job	Sheet
As indicated	21.124	A4.2
Drawn	Date	
AA	12/14/2023	

RCP NOTES

- A. REFERENCE ROOM FINISH SCHEDULE FOR CEILING HEIGHTS, UNLESS NOTED OTHERWISE (UNO).
- B. COORDINATE QUANTITY, SIZE, AND LOCATION OF CEILING PENETRATIONS WITH OWNER'S FINAL EQUIPMENT LAYOUT.
- C. COORDINATE QUANTITY, SIZE, AND LOCATION OF SPRINKLER HEADS WITH FINAL APPROVED SPRINKLER SHOP DRAWINGS.
- D. COORDINATE QUANTITY, SIZE, AND LOCATION OF CEILING PENETRATIONS FOR UTILITIES WITH MECHANICAL, FIRE PROTECTION, PLUMBING, REFRIGERATION, AND ELECTRICAL DRAWINGS.

REFLECTED CEILING LEGEND

- LINE OF WALL BELOW CEILING
- GRID STARTING FROM CENTERLINE OF SPLINE
- GWB CEILING OR SOFFIT
- 2 X 2 ACOUSTICAL CEILING TILE
- 2 X 4 ACOUSTICAL CEILING TILE
- RECESSED LIGHT FIXTURE (REF. ELECTRICAL DWGS)
- RECESSED LIGHT FIXTURE (REF. ELECTRICAL DWGS)
- PENDANT MOUNTED LIGHT FIXTURE (REF. ELECTRICAL DWGS)
- HVAC SUPPLY (REF. MECHANICAL DWGS)
- HVAC RETURN OR EXHAUST (REF. MECHANICAL DWGS)
- RECESSED LIGHT FIXTURE (REF. ELECTRICAL DWGS)
- RECESSED LINEAR
- PENDENT FABRIC LAMP

RELEASE / REVISION

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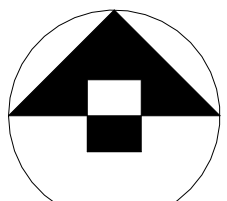
Project

NJ STATE POLICE
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LOT: 14 BLOCK: 183

Drawing

REFLECTED CEILING
PLAN



Scale
1/8" = 1'-0"

Job
21.124

Sheet

A5.0

Drawn
AA

Date
12/14/2023

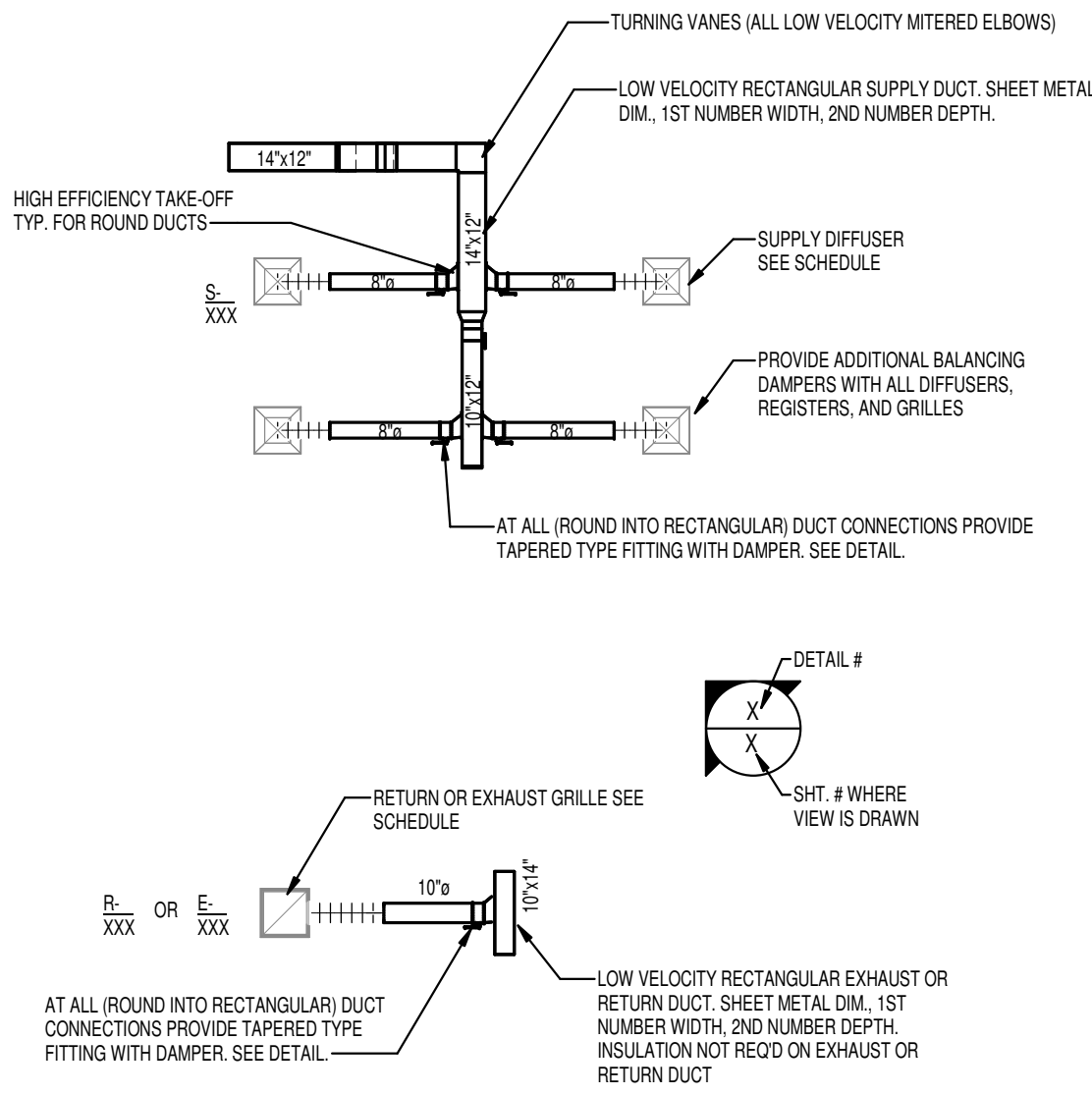
LEVEL 1 REFLECTED CEILING PLAN

SCALE
1/8" = 1'-0"

1

ASHRAE 62.1											
#	DESCRIPTION	Area (SF)	Dens. /1000	OCC Person	OA SF	OA CFM	SF CFM	TOTAL OA	SA (CFM)	RA (CFM)	EA (CFM)
RTU-1											
111	Women's Vestibule	36	15	1	5	0.06	2	5	50	0	0
112	Women's Locker Room	398	-	-	-	-	-	340	340	0	390
113	Women's T.R.	239	-	-	-	-	-	280	280	0	280
114	Janitor	95	-	-	-	-	-	100	100	0	100
115	Men's Vestibule	36	15	1	5	0.06	2	5	50	0	0
116	Men's Locker Room	1,230	-	-	-	-	-	1200	1200	0	1220
117	Men's T.R.	249	15	-	-	-	-	280	280	0	290
System Total								2210	2300	0	2280
RTU-2											
118	Fitness/Self Defense Training Room	950	15	14	20	0.12	114	399	2000	1601	0
RTU-3											
120	File Room	208	-	-	-	0.12	25	25	150	0	0
122	Storage	112	-	-	-	0.12	13	13	50	0	0
123	Conference Room	637	50	32	5	0.06	38	197	1075	1075	0
System Total								236	1275	839	0
RTU-4											
102	Duty Sgt Desk	128	5	1	5	0.06	8	11	100	100	0
103	Specialty Equipment	198	-	-	-	-	-	170	170	0	0
104	School Resource Office	197	5	2	5	0.06	12	22	200	200	0
105	General Office	1,173	20	23	5	0.06	70	188	1200	1200	0
106	Break Area	342	50	17	5	0.12	41	127	400	400	0
119	Corridor #2	343	-	-	-	0.06	21	21	200	0	0
System Total								368	2270	1703	0
RTU-5											
107	Admin Sgt Office	128	5	1	5	0.06	8	11	210	210	0
108	Support Office	254	35	9	5	0.06	15	60	220	220	0
109	S.F.C. Office	145	5	2	5	0.06	9	19	200	200	0
110	Lieutenant Office	182	5	2	5	0.06	11	21	1200	1200	0
System Total								110	1830	1720	0
RTU-6a											
125	Detective Area	755	20	15	5	0.06	45	121	1100	1200	0
126	Storage	82	35	2	5	0.06	4	15	100	0	0
System Total								135	1200	1065	0
RTU-6b											
100	Lobby/Waiting	336	10	3	5	0.06	20	37	420	470	0
101	Corridor #1	175	-	-	-	0.06	11	11	100	0	0

ASHRAE 62.1											
#	DESCRIPTION	Area (SF)	Dens. /1000	OCC Person	OA SF	OA CFM	SF CFM	TOTAL OA	SA (CFM)	RA (CFM)	EA (CFM)
137	Corridor #4	92	-	-	5	0.06	6	6	0	110	0
138	Secure Vestibule	36	15	1	5	0.06	2	5	50	0	0
139	Lobby T.R.	51	-	-	-	-	-	75	0	0	75
140	Mother's Room	53	-	2	5	0.06	3	13	50	0	0
141	Witness Duty Sgt. T.R.	51	-	-	-	-	-	75	0	0	75
142	Corridor #5	115	-	-	-	0.06	7	7	220	220	0
143	Interview Room	111	-	3	5	0.06	7	22	110	110	0
144	Crisis Office	100	-	3	5	0.06	6	21	100	100	0
145	Domestic Violence Room	150	-	4	5	0.06	9	29	150	150	0
System Total								300	1200	860	150
RTU-7											
127	Evidence Storage	216	-	-	-	0.12	26	26	100	100	0
128	Men's Holding	155	25	4	5	0.12	19	38	140	140	0
129	Holding T.R.	59	-	-	5	0.06	4	4	0	0	75
130	Women's Holding	53	25	1	5	0.12	6	13	75	75	0
132	Arrest Processing	509	10	5	5	0.06	31	56	710	620	0
133	Process T.R.	48	-	-	-	-	-	75	0	0	75
134	Jan/Storage	40	-	-	-	-	-	75	0	0	75
135	Interview Room	81	15	1	5	0.06	5	11	100	100	0
System Total								297	1125	1035	225



PLAN VIEW

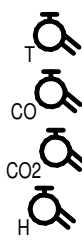
HVAC DUCT LEGEND

SCALE: NONE

- NOTES:
- ALL DUCTWORK DIMENSIONS ARE EXTERIOR DIMENSIONS OF DUCT.
 - ALL MEDIUM PRESSURE TAKEOFFS TO HAVE 45° LATERAL OR SIMILAR EVEN IF NOT SPECIFICALLY SHOWN IN DRAWINGS.
 - PROVIDE ADDITIONAL BALANCING DAMPERS IN TAKEOFF TO ALL GRILLES/DIFFUSERS AND AT ALL GRILLES/DIFFUSERS.
 - DUCTWORK INSTALLATION SHALL MEET ALL REQUIREMENTS OF NFPA 90A/SMACNA.
 - ALL DUCTWORK SHALL BE INSULATED PER SPECIFICATIONS AND THE REQUIREMENTS OF ASHRAE 90.1-2019.

HVAC SYMBOLS AND ABBREVIATIONS LEGEND

SYMBOLS



- ADJUSTABLE ROOM THERMOSTAT
CARBON MONOXIDE SENSOR
CARBON DIOXIDE SENSOR
HUMIDITY SENSOR

- O.A. OUTSIDE AIR
S.A. SUPPLY AIR
R.A. RETURN AIR
CAP. CAPACITY
PRESS. PRESSURE
TEMP. TEMPERATURE
MIN. MINIMUM
MAX. MAXIMUM
SIM. SIMILAR
AUTO. AUTOMATIC
EX EXISTING
CONC. CONCRETE
GPM GALLONS PER MINUTE
SF SUPPLY FAN
RF RETURN FAN
BTUH BTUH
A.F.F. ABOVE FINISHED FLOOR
EF EXHAUST FAN
TYP. TYPICAL
CONN. CONNECTION
F.D. FLOOR DRAIN
HTR HEATER
CLG. CEILING
T.C. TEMPERATURE CONTROL
DN. DOWN
MECH. MECHANICAL
RM ROOM
S.P. STATIC PRESSURE
SHT. SHEET
ASSOC. ASSOCIATED
REF. REFERENCE
EAT ENTERING AIR TEMPERATURE
LAT LEAVING AIR TEMPERATURE
UH UNIT HEATER
SP SETPOINT

GENERAL NOTES:

- A. CONTRACTOR SHALL PROVIDE MANUFACTURER'S RECOMMENDED ACCESS TO ALL EQUIPMENT, TERMINAL UNITS AND VALVES. ACCESS SHALL BE REMOVABLE CEILING TILES OR CEILING ACCESS PANELS. COORDINATE LOCATION OF MECHANICAL EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICT.
- B. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF GRILLES AND DIFFUSERS.
- C. FOR ALL WALLS THAT ARE EXTENDED TO STRUCTURE PROVIDE SLEEVES FOR PIPING AND DUCTWORK PENETRATING WALLS (REFERENCE SPECIFICATIONS).
- D. DRAWINGS ARE DIAGRAMMATIC. PROVIDE ADDITIONAL OFFSETS, TRANSITIONS, ETC. AS REQUIRED TO AVOID INTERFERENCE'S ENCOUNTERED. FULL COORDINATION DRAWINGS WITH OTHER TRADES ARE REQUIRED.
- E. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT SURE OF THEIR MEANING, HE SHOULD OBTAIN THE ARCHITECT'S WRITTEN EXPLANATION AND INTERPRETATION PRIOR TO SUBMITTING HIS BID, SINCE THE CONTRACTORS WILL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ARCHITECT.
- F. CUT, PATCH, REPAIR AND RESTORE TO ORIGINAL CONDITION ALL OPENINGS IN NEW WALLS, FLOORS, CEILINGS, ETC. WHERE REQUIRED. COORDINATE ALL PATCHING AND FINISHES WITH ARCHITECT.
- G. PROVIDE BALANCING DAMPERS FOR ALL S.A., R.A. AND E.A. DUCT BRANCH TAKEOFFS AND RUNOUTS TO GRILLES, DIFFUSERS, ETC.
- H. USE RADIUS ELBOWS. IF SPACE IS/NT AVAILABLE, MITERED ELBOWS ARE ACCEPTABLE. PROVIDE TURNING VANES IN ALL RECTANGULAR MITERED ELBOWS. SUPPLY AND RETURN DUCTWORK.
- I. INSTALL FLEX DUCTS FULLY EXTENDED. DO NOT BEND DUCTS ACROSS SHARP CORNERS. BENDS OF FLEX DUCTS SHALL NOT EXCEED A MINIMUM OF 1 DUCT DIAMETER. AVOID CONTACT OF FLEX DUCT WITH METAL FIXTURES, WATER LINES, PIPES, OR CONDUITS.

Revisions

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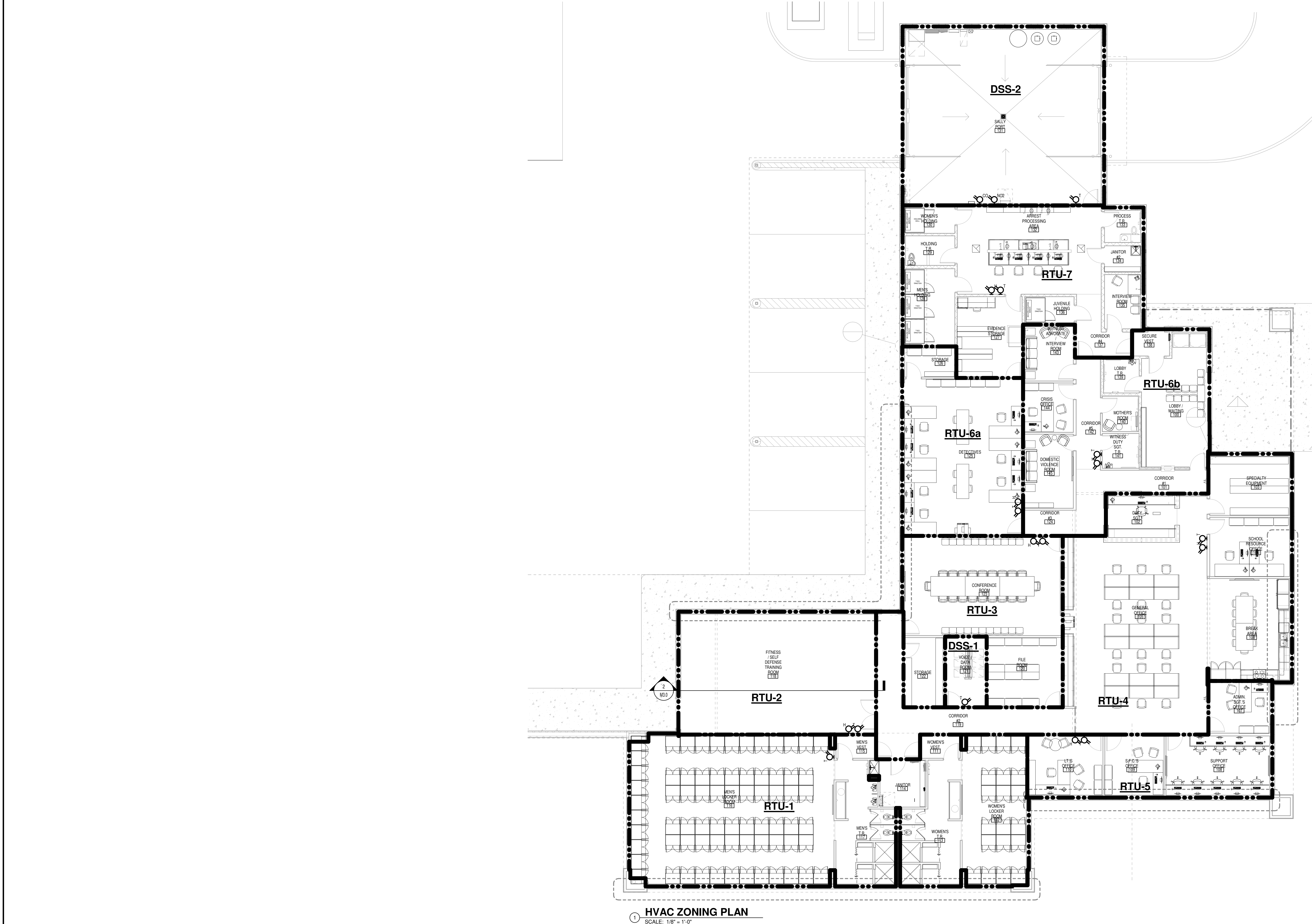
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Drawing

HVAC LEGEND

Scale	Job	Sheet
1/8" = 1'-0"	21.124	M0.1
Drawn	Date	
NDG	01/16/24	

PRINTED: 1/16/24 2:51 PM



1 HVAC ZONING PLAN
SCALE: 1/8" = 1'-0"

Revisions		
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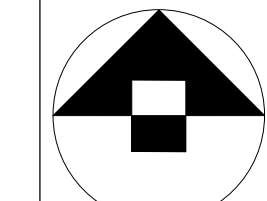
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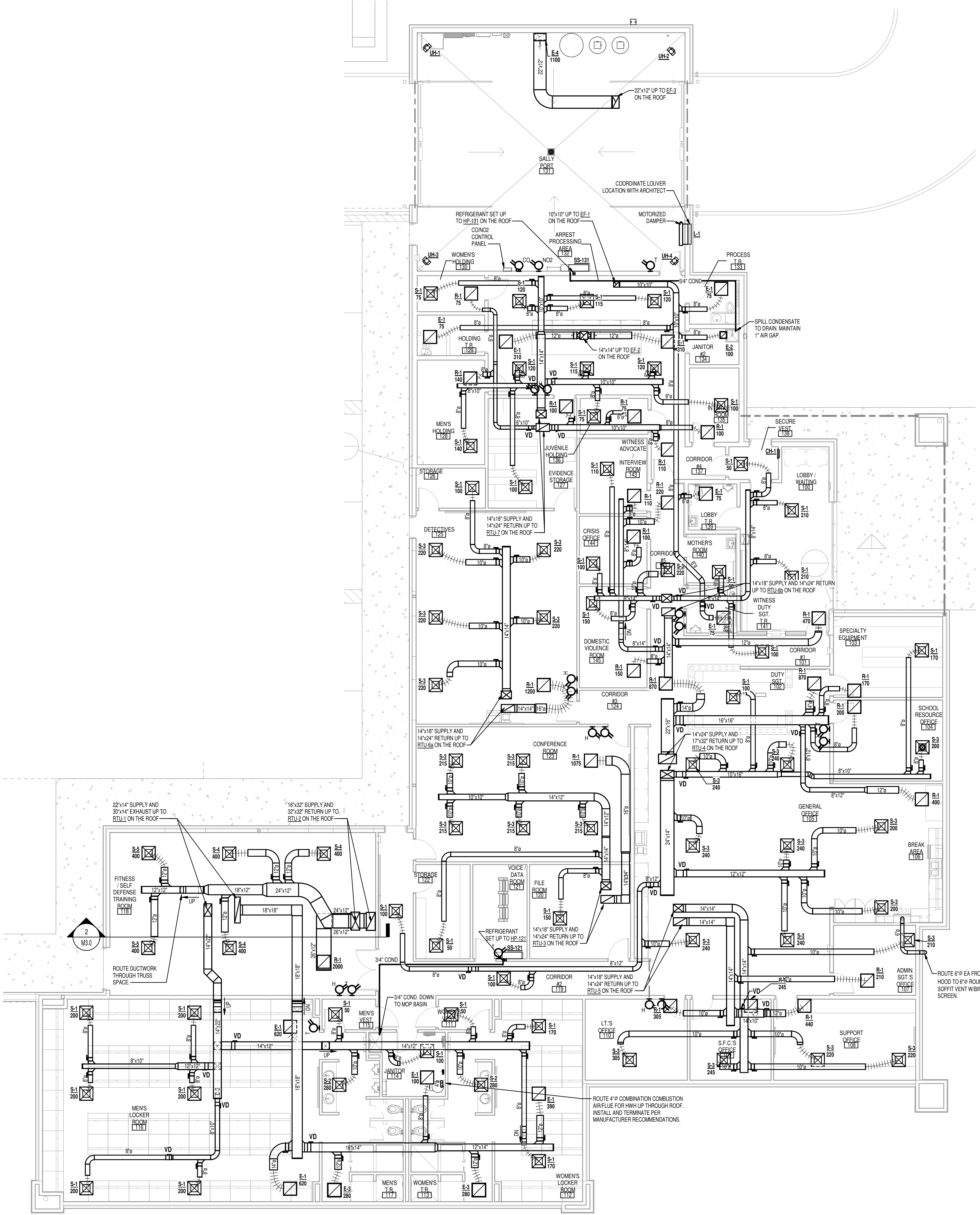
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Drawing
HVAC ZONING PLAN



Scale	Job	Sheet
1/8" = 1'-0"	21.124	M1.0
Drawn	Date	
NDG	01/16/24	



1 FIRST FLOOR HVAC PLAN
SCALE: 1/8" = 1'-0"

Revisions		
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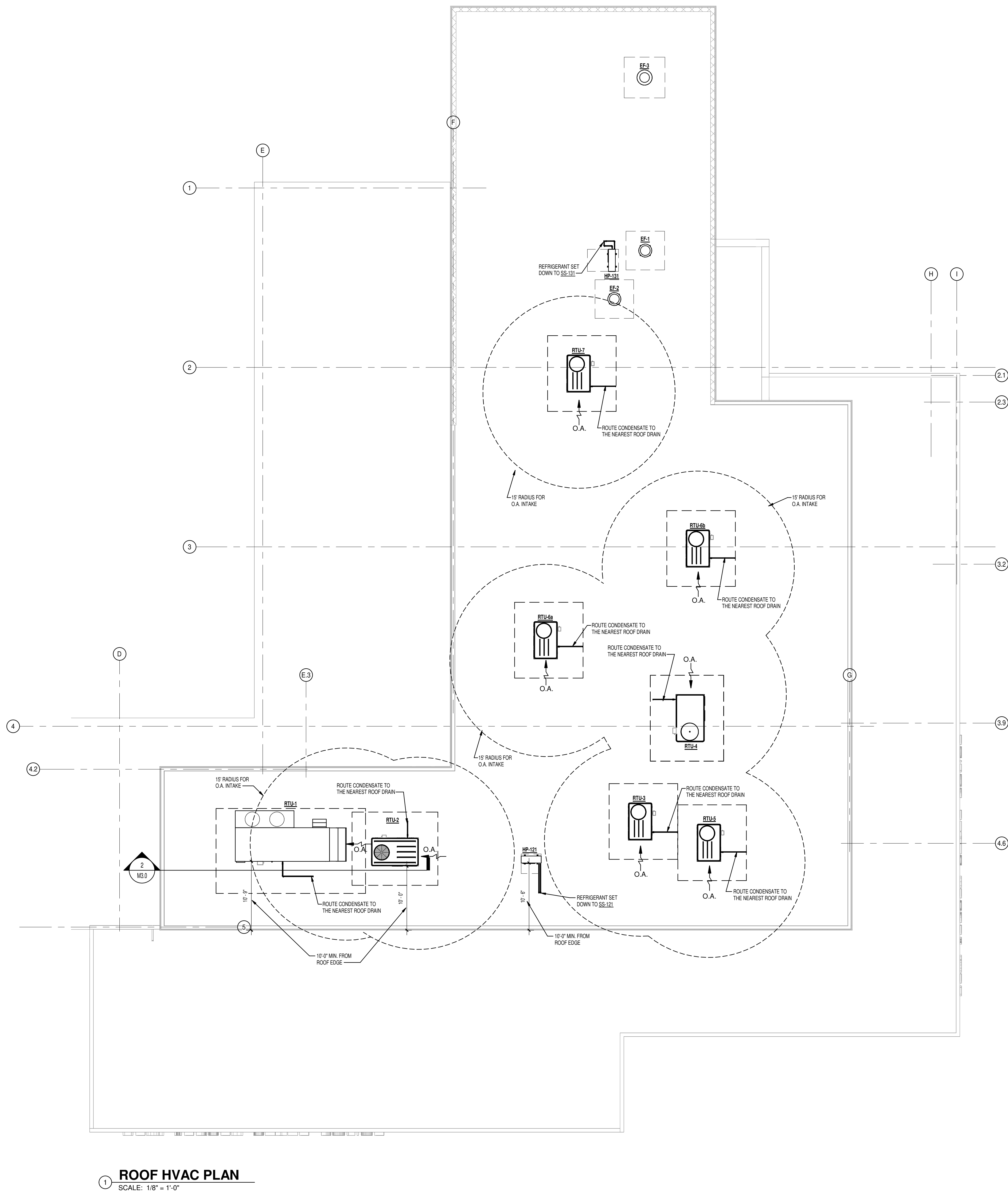


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Drawing		
FIRST FLOOR HVAC PLAN		
Scale 1/8" = 1'-0"	Job 21.124	Sheet M1.1
Drawn NDG	Date 01/16/24	

PRINTED: 1/16/24 10:22 PM



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

Revisions		
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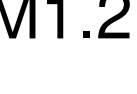
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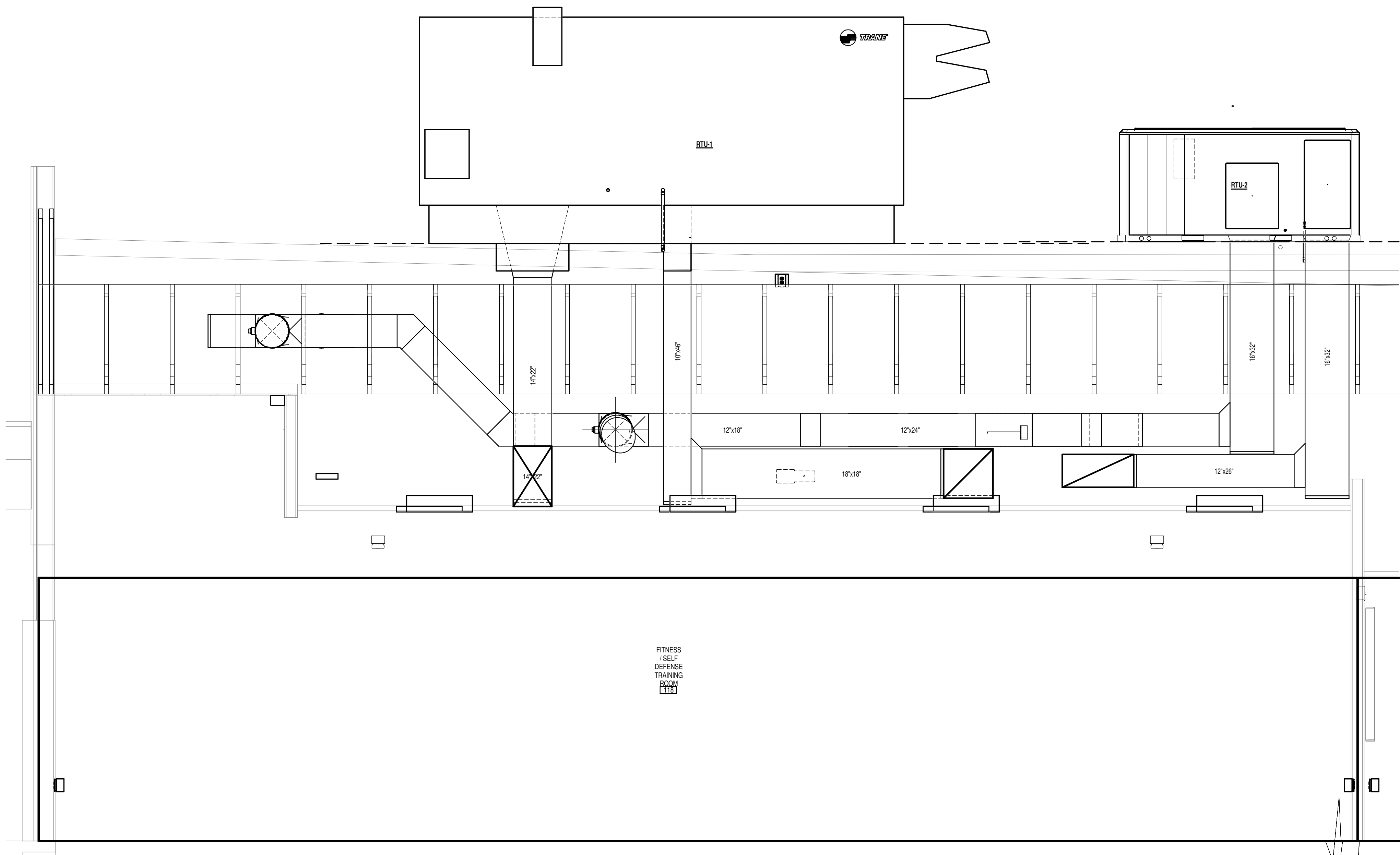
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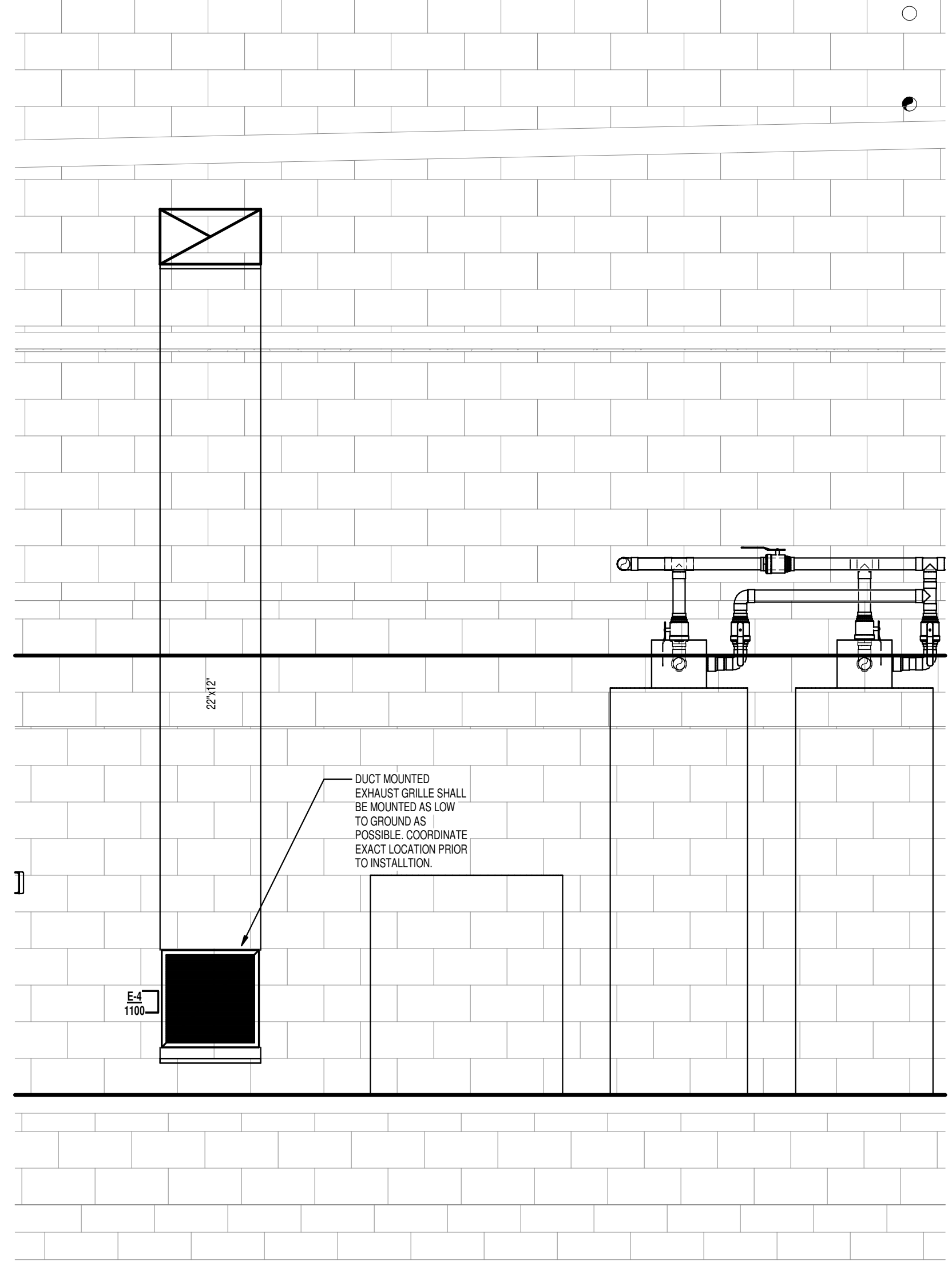
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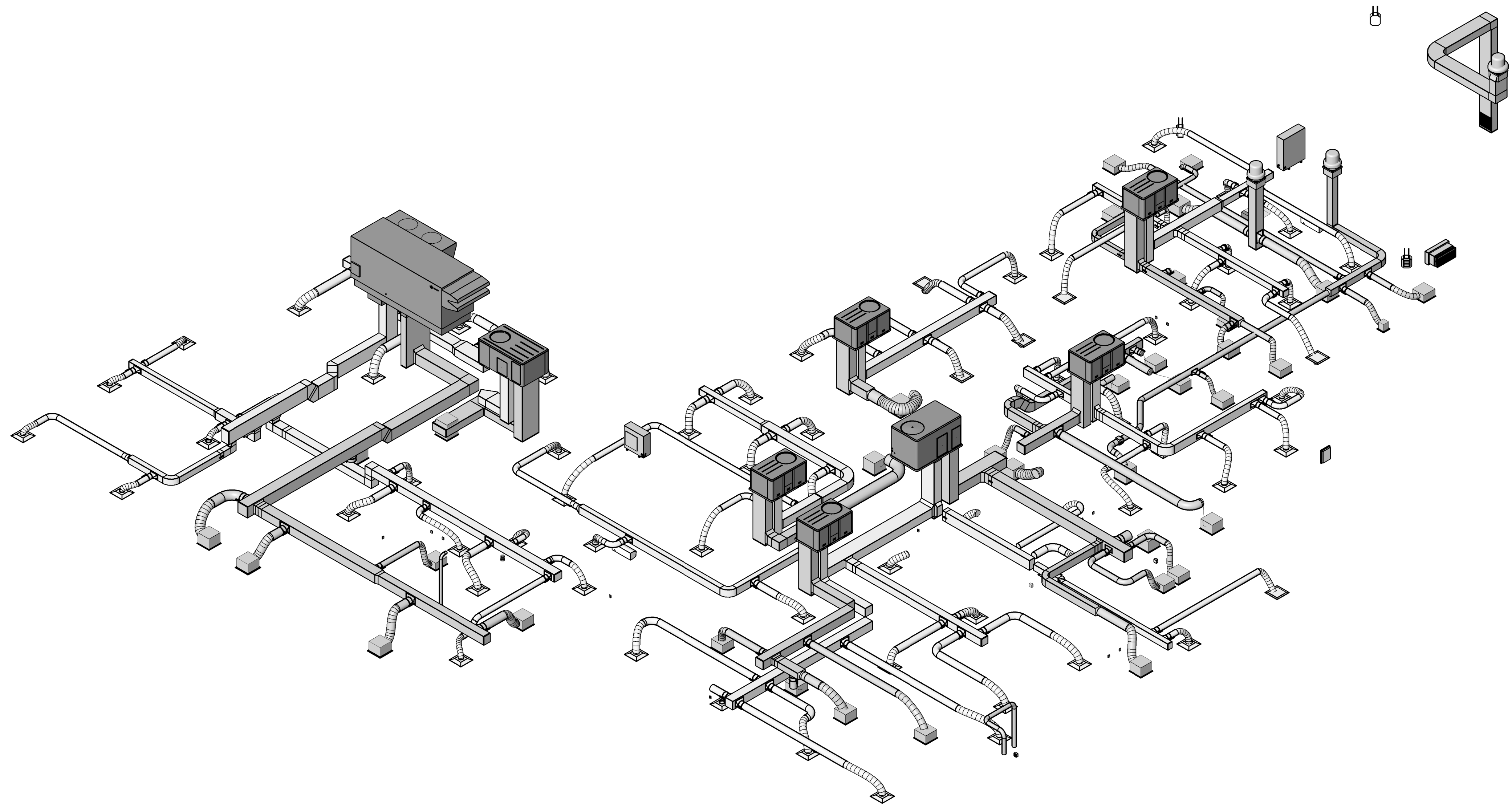
Drawing		
ROOF HVAC PLAN		
Scale 1/8" = 1'-0"	Job 21.124	Sheet M1.2
Drawn NDG	Date 01/16/24	



2 RTUS OVER TRAINING ROOM SECTION
SCALE: NONE



1 SALLY PORT EXHAUST DUCT SECTION
SCALE: 1/2" = 1'-0"



3 ISOMETRIC VIEW
SCALE:

Revisions		
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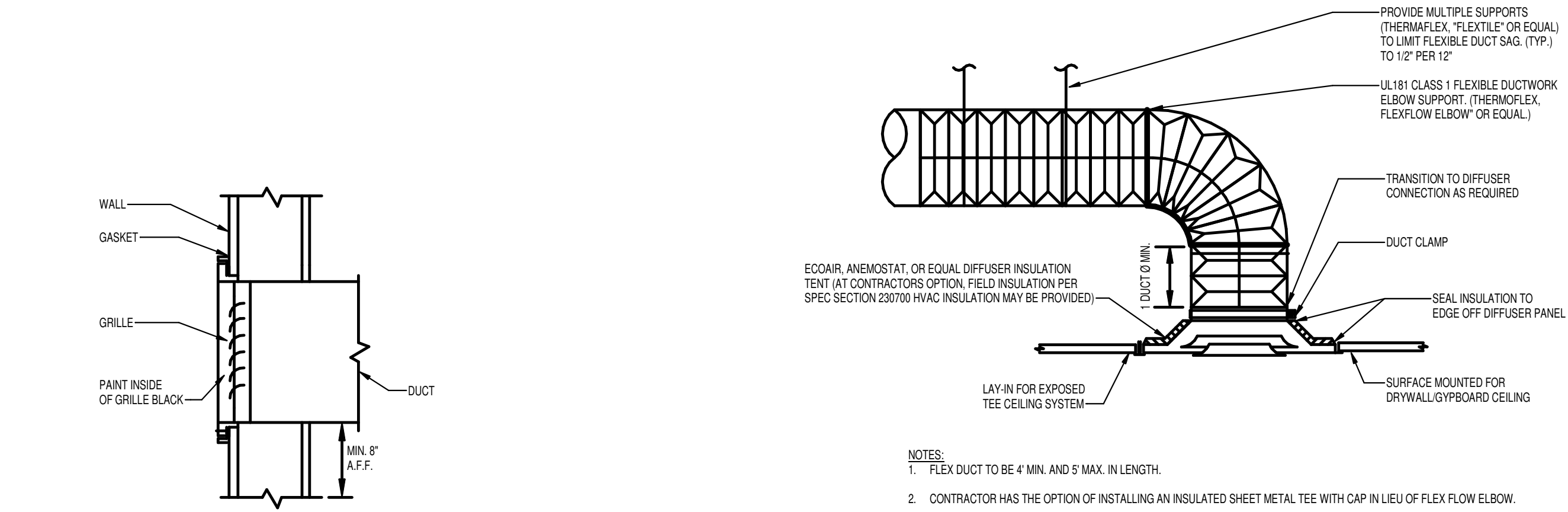
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LOT: 14 BLOCK: 183

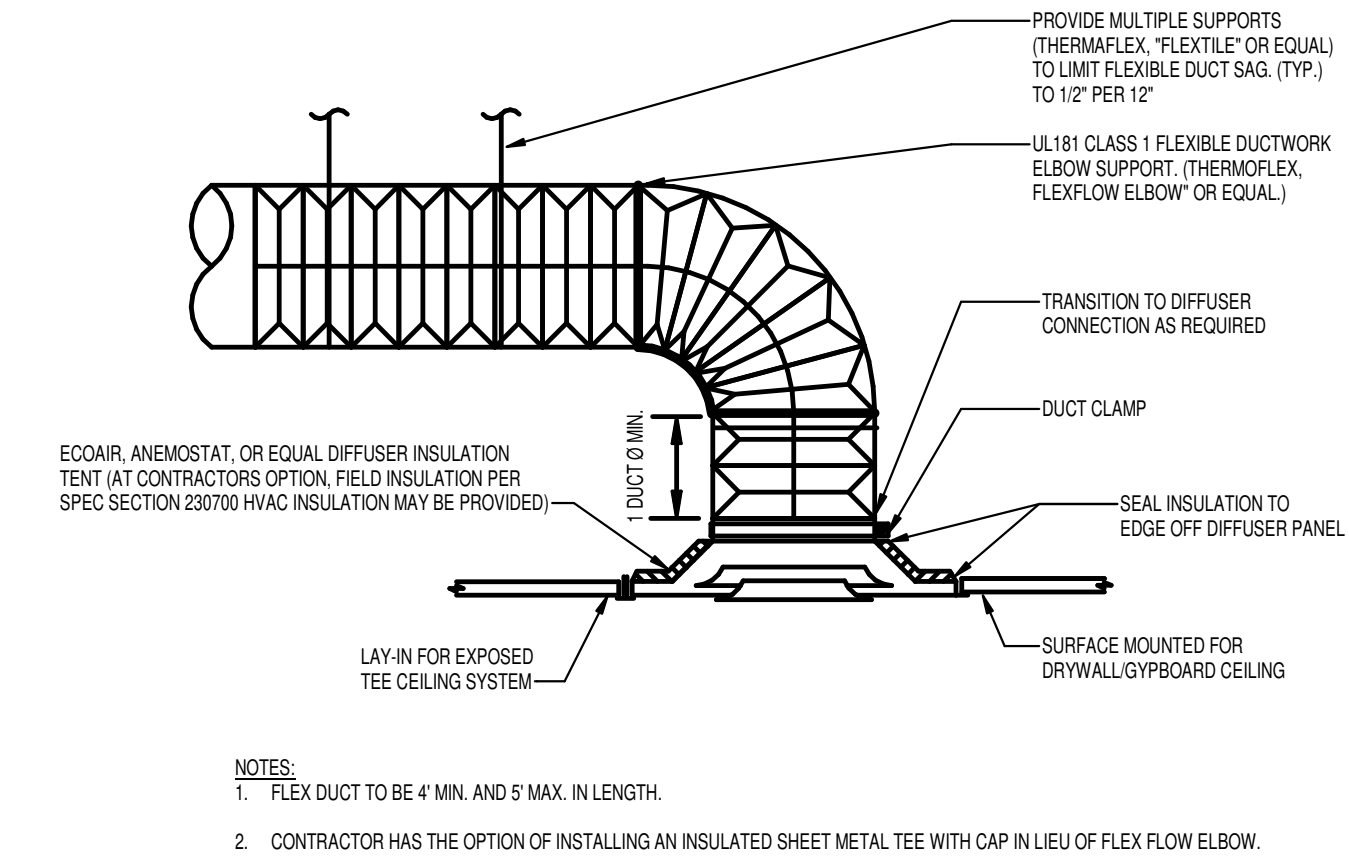
Drawing
HVAC SECTIONS

Scale	Job	Sheet
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Drawn	Date	
NDG	01/16/24	

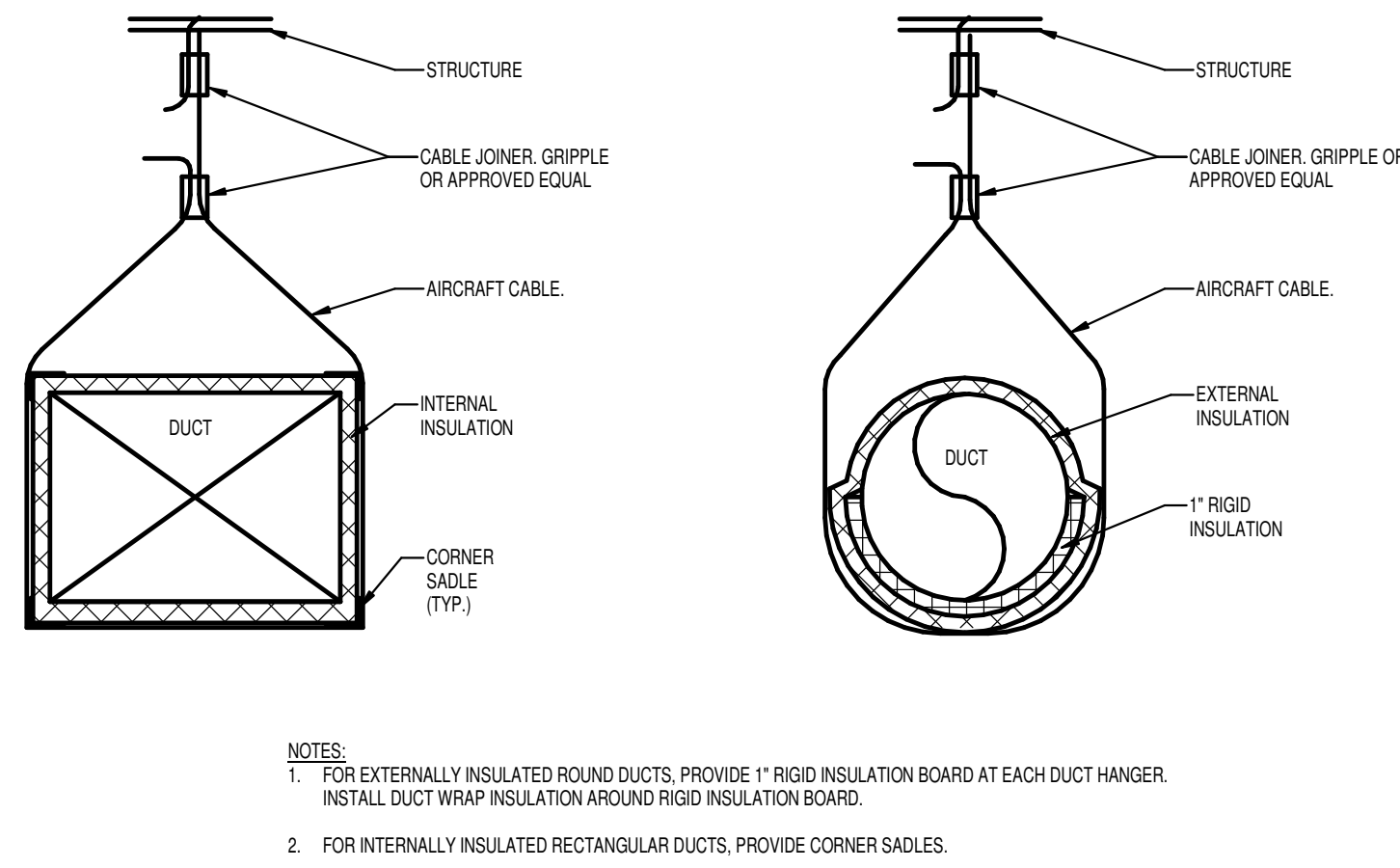
Revisions		
No.	Date	Description
1	12/14/23	RELEASED FOR REVIEW
2	1/16/24	RELEASED FOR BIDDING



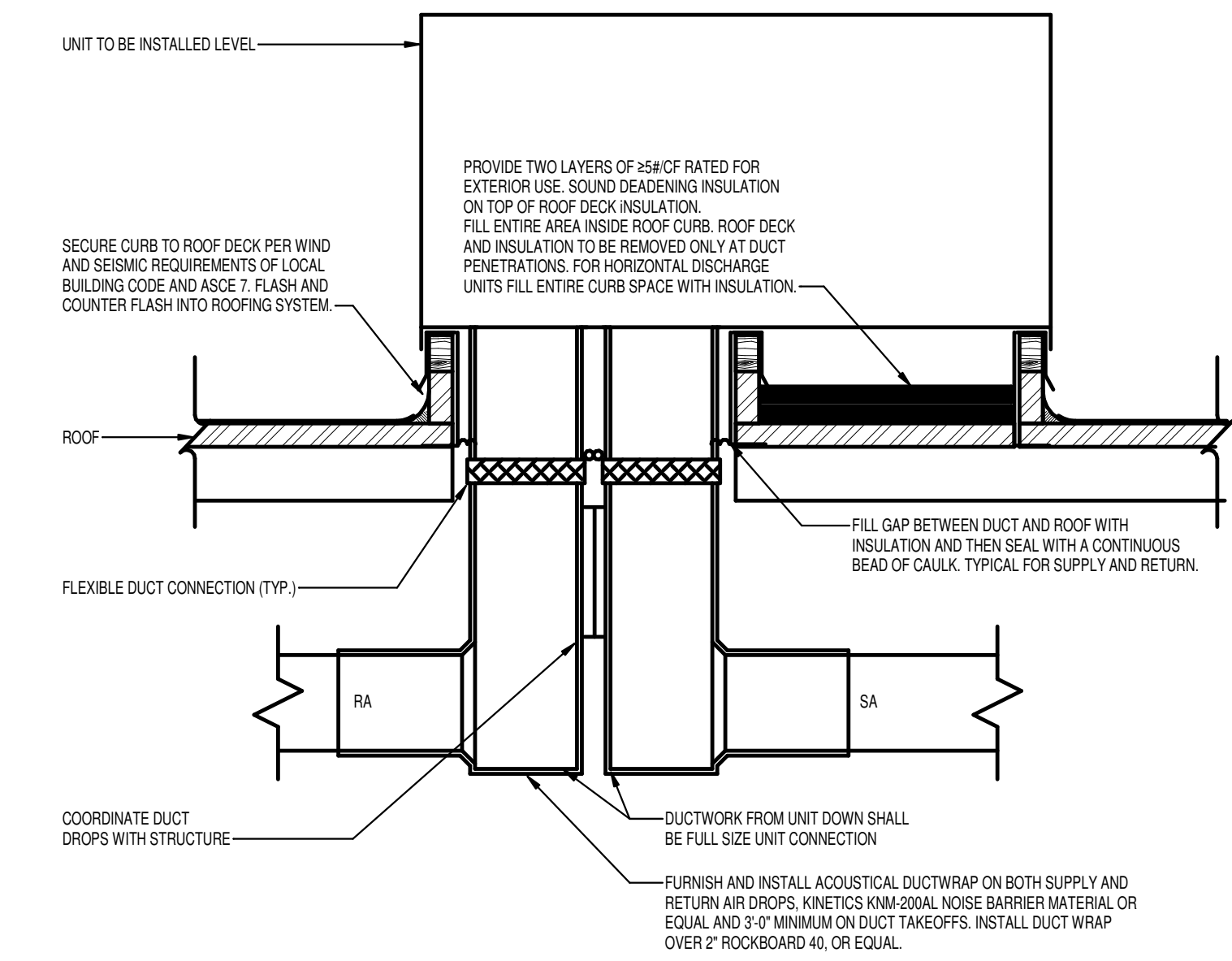
14 SIDEWALL GRILLE MOUNTING DETAIL
SCALE: NONE



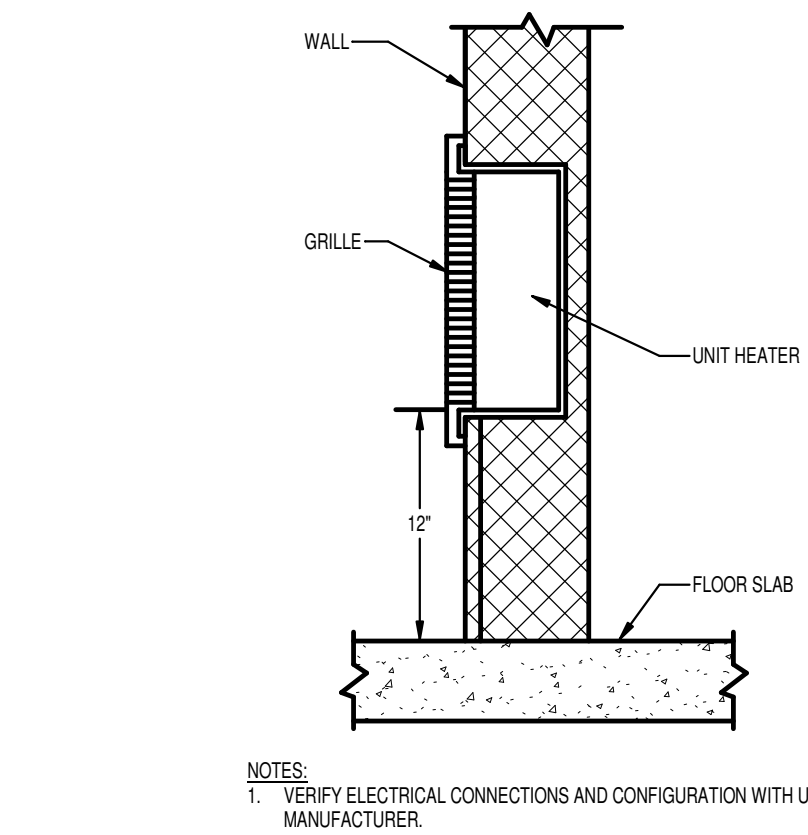
15 SUPPLY DIFFUSER CONNECTION DETAIL
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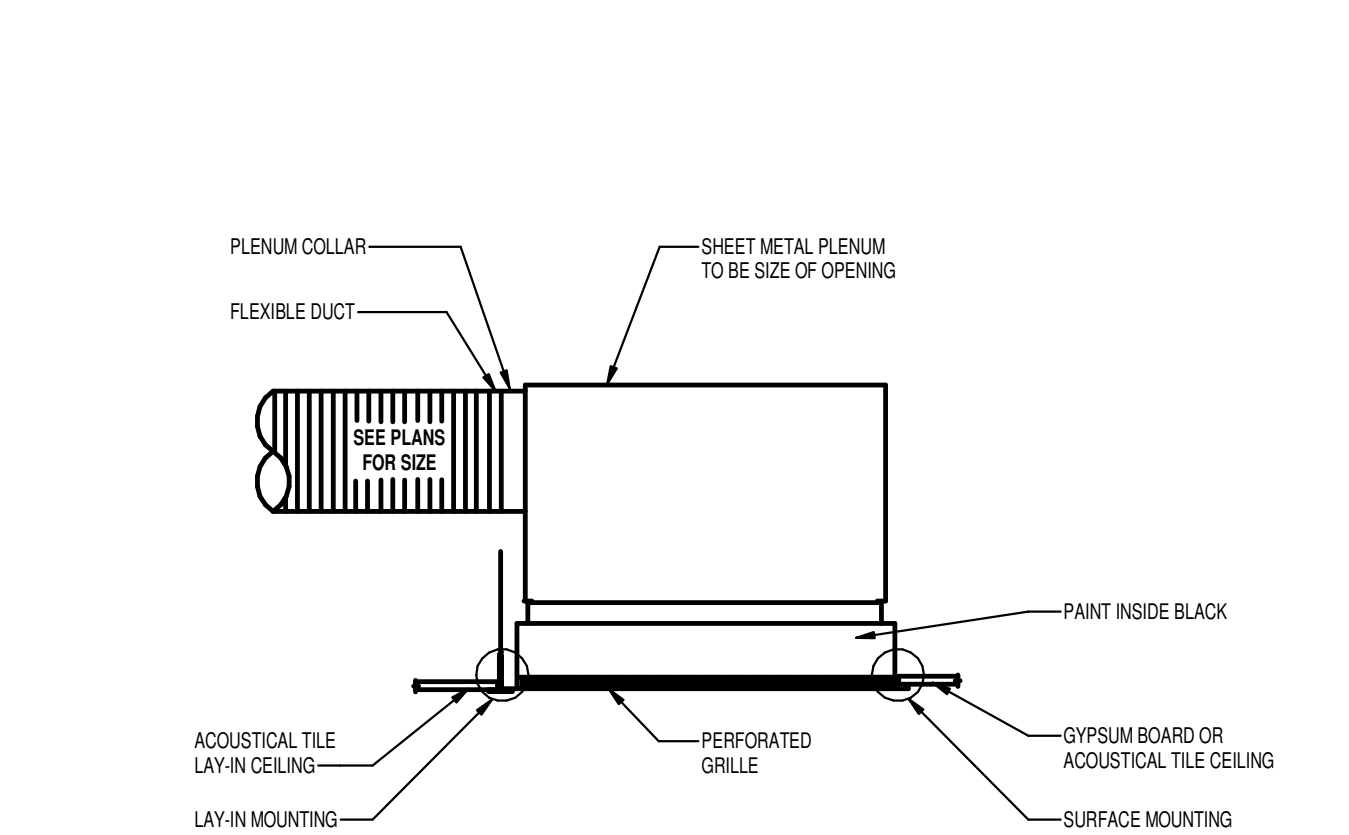
6 DUCT HANGER - AIRCRAFT CABLE DETAIL
SCALE: NONE



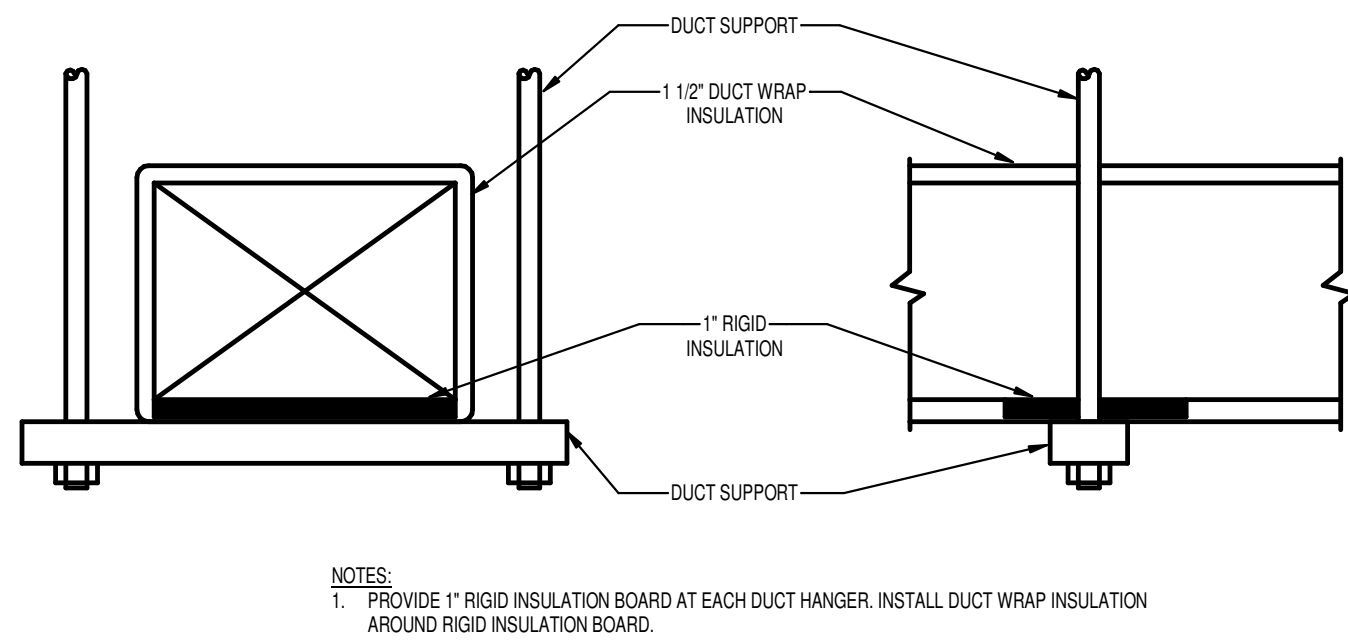
1 RTU DETAIL
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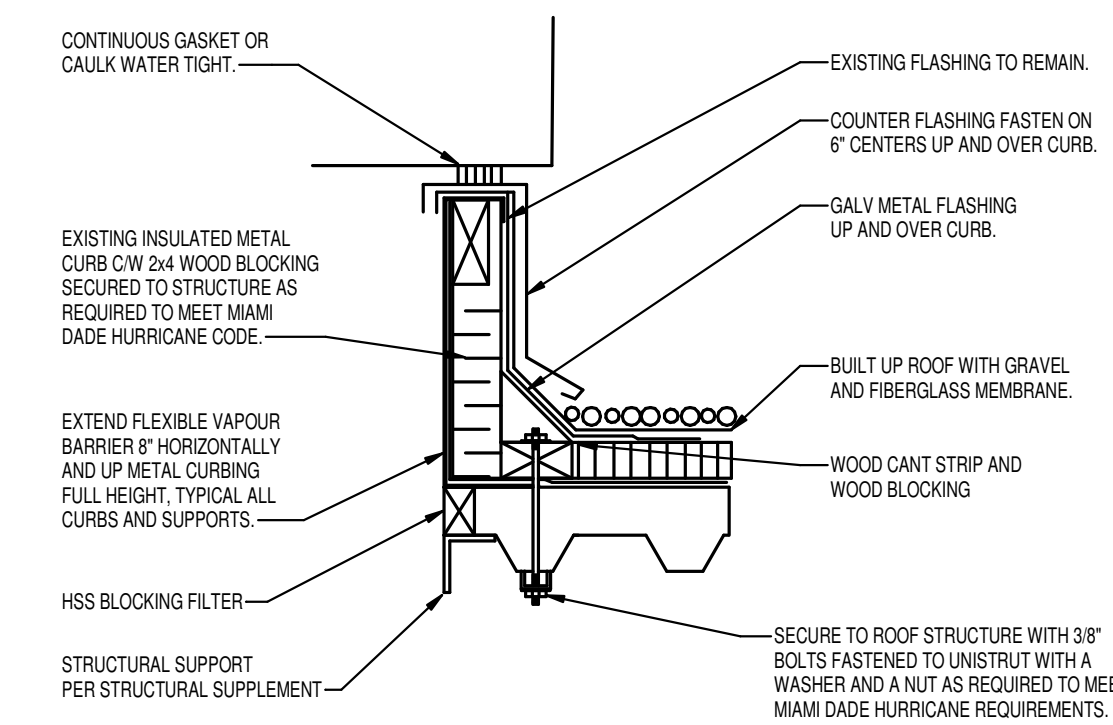
16 UNIT HEATER MOUNTING DETAIL (recessed)
SCALE: NONE



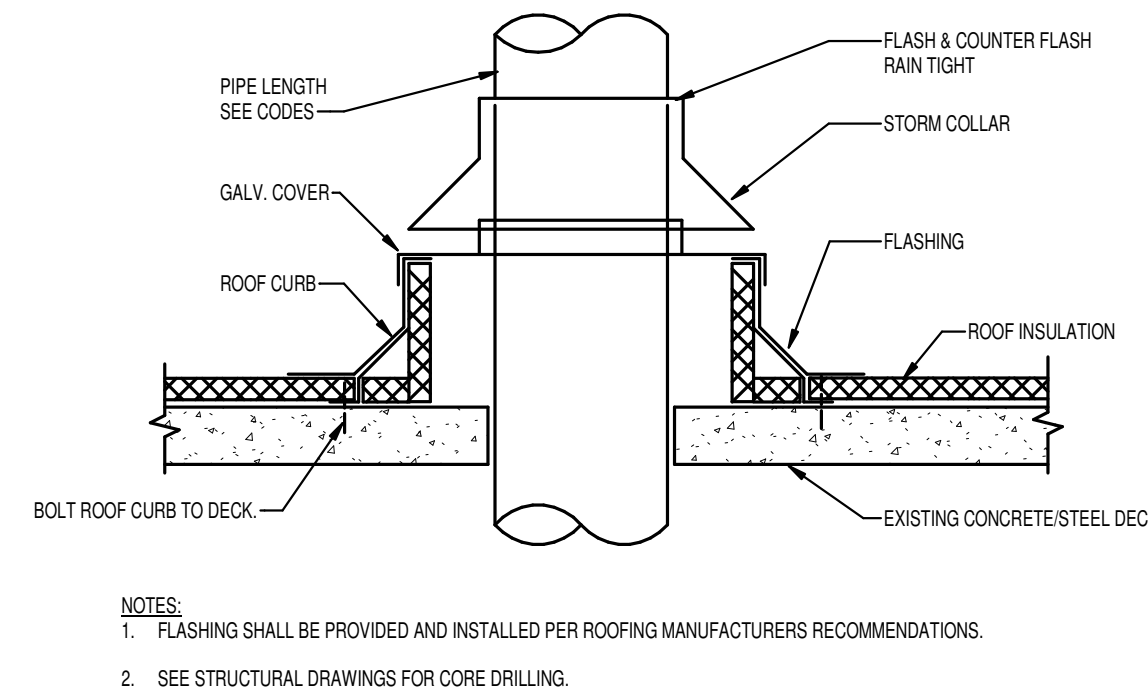
13 RETURN/EXHAUST GRILLE 22x22 CONNECTION DETAIL
SCALE: NONE



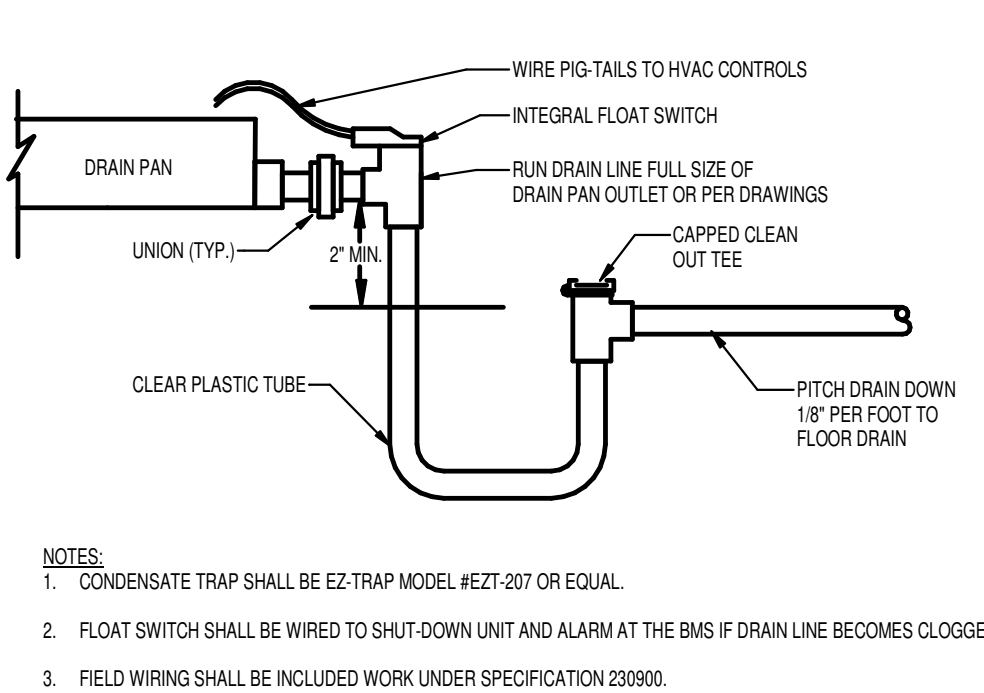
5 DUCT HANGER DETAIL
SCALE: NONE



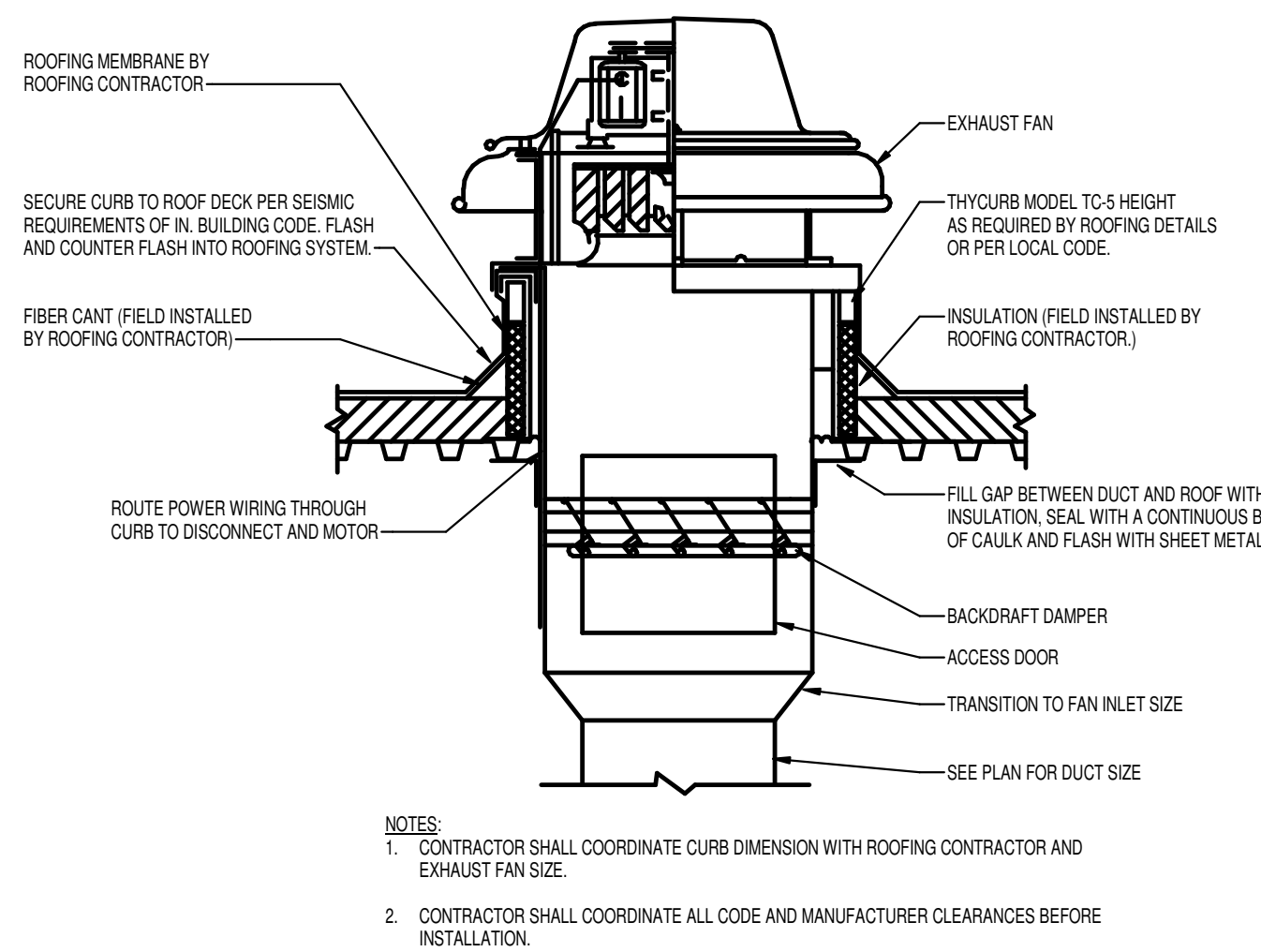
2 ROOF CURB DETAIL
SCALE: NONE



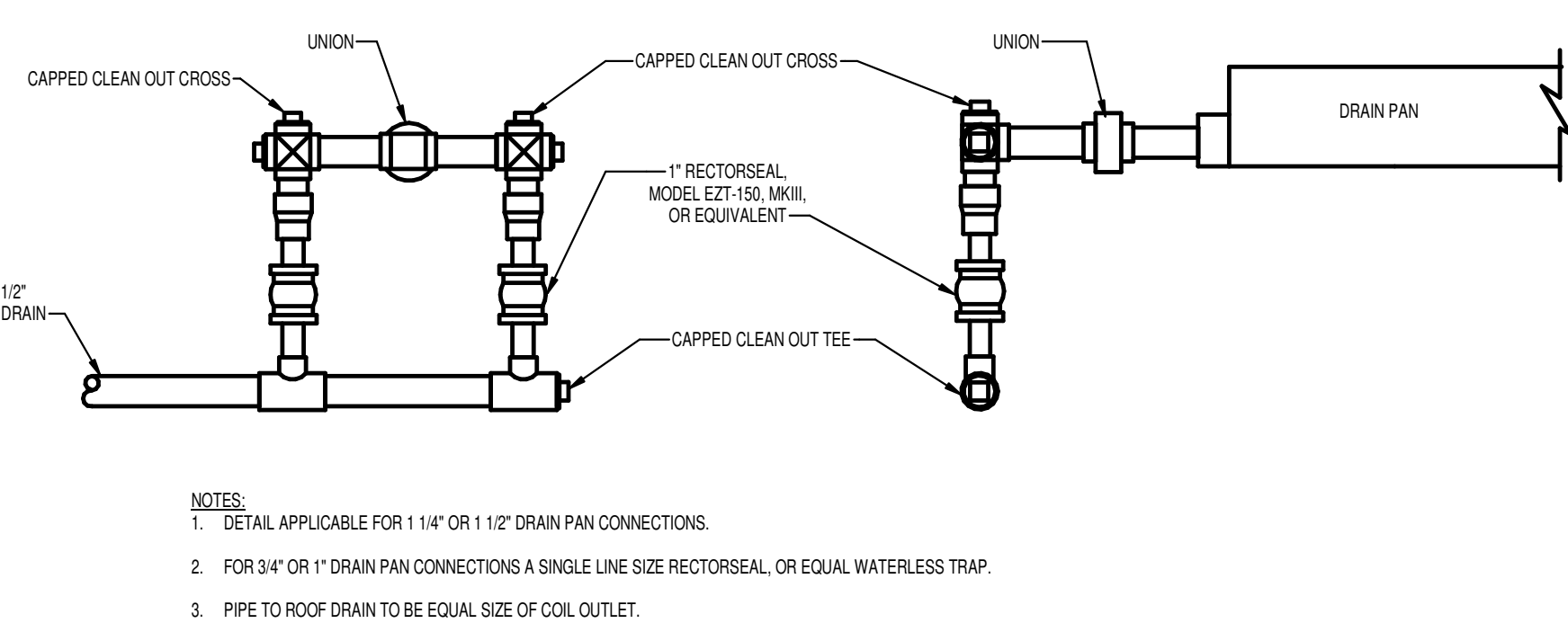
12 PIPE ROOF PENETRATION DETAIL
SCALE: NONE



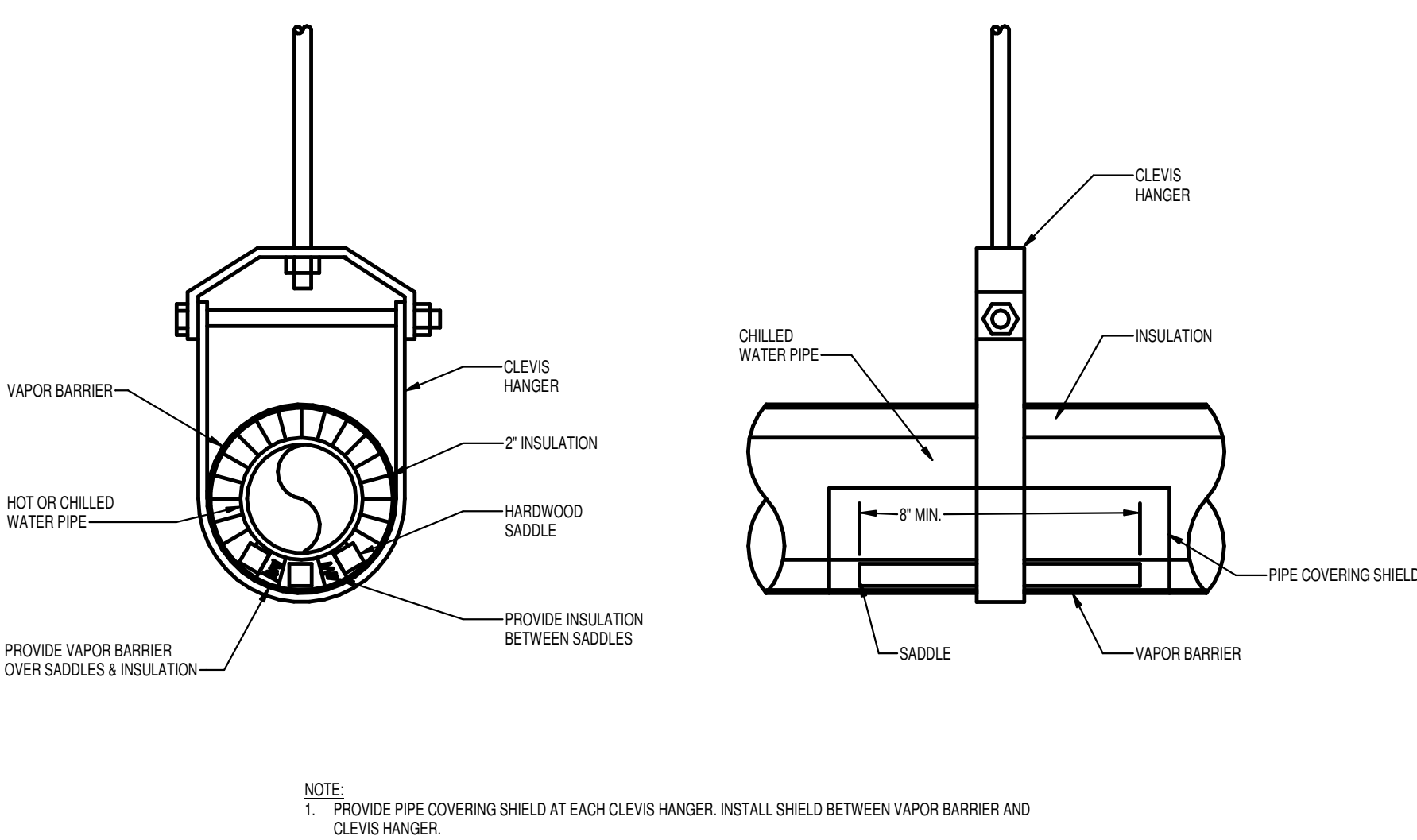
10 CONDENSATE DRAIN WITH FLOAT SWITCH DETAIL
SCALE: NONE



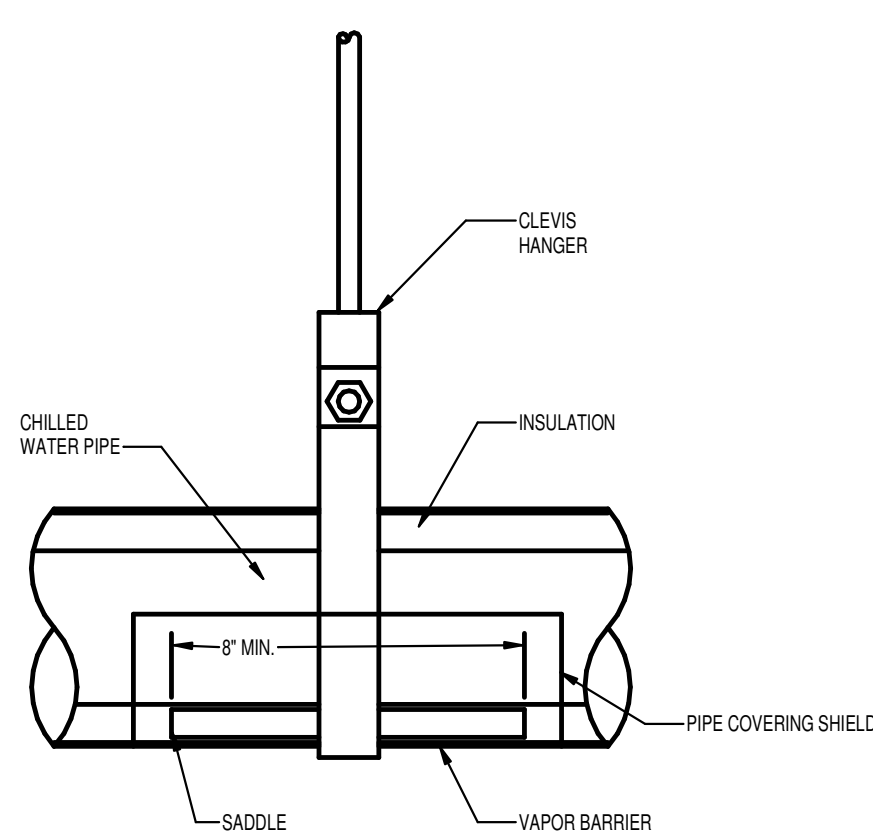
7 EXHAUST FAN DETAIL (DOWNBLAST)
SCALE: NONE



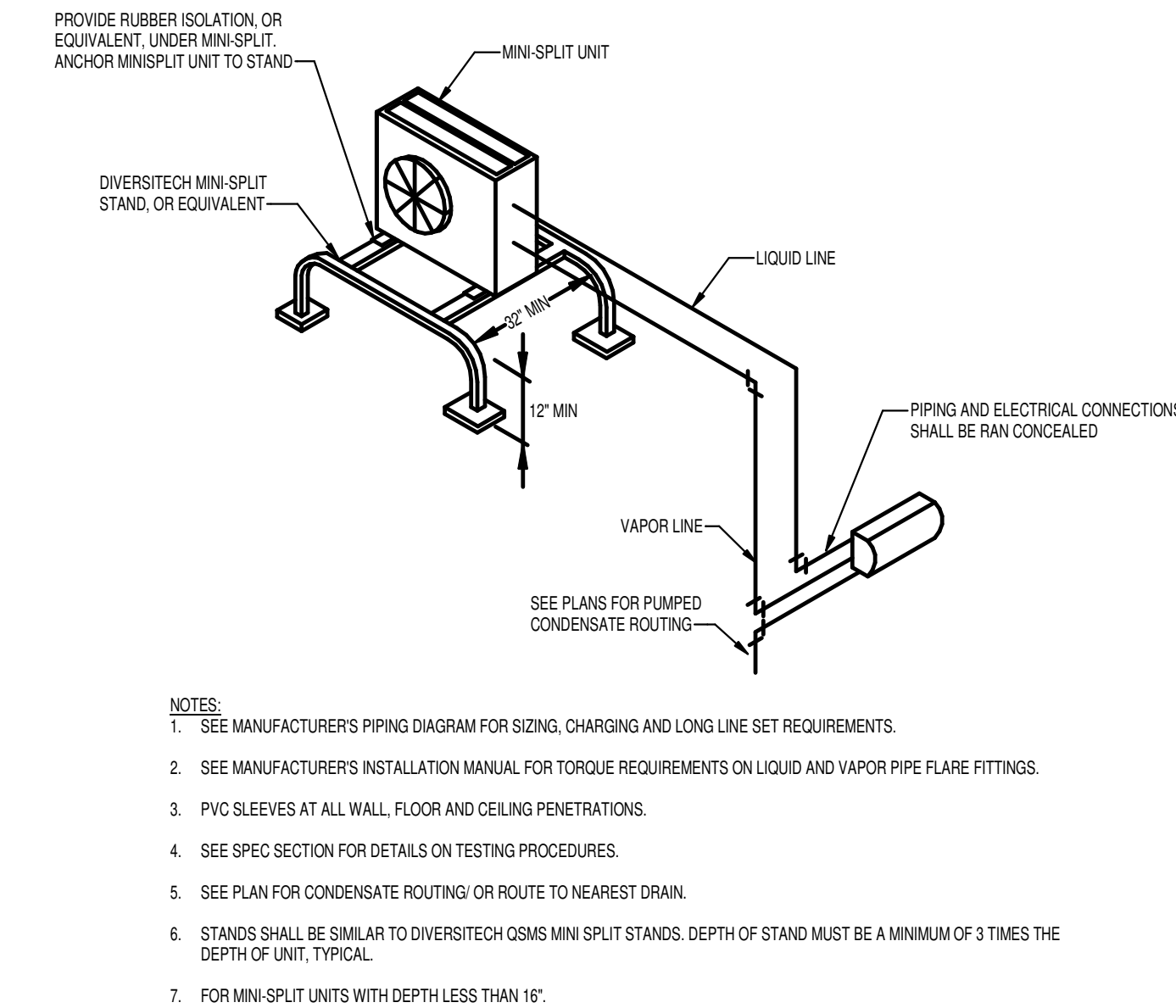
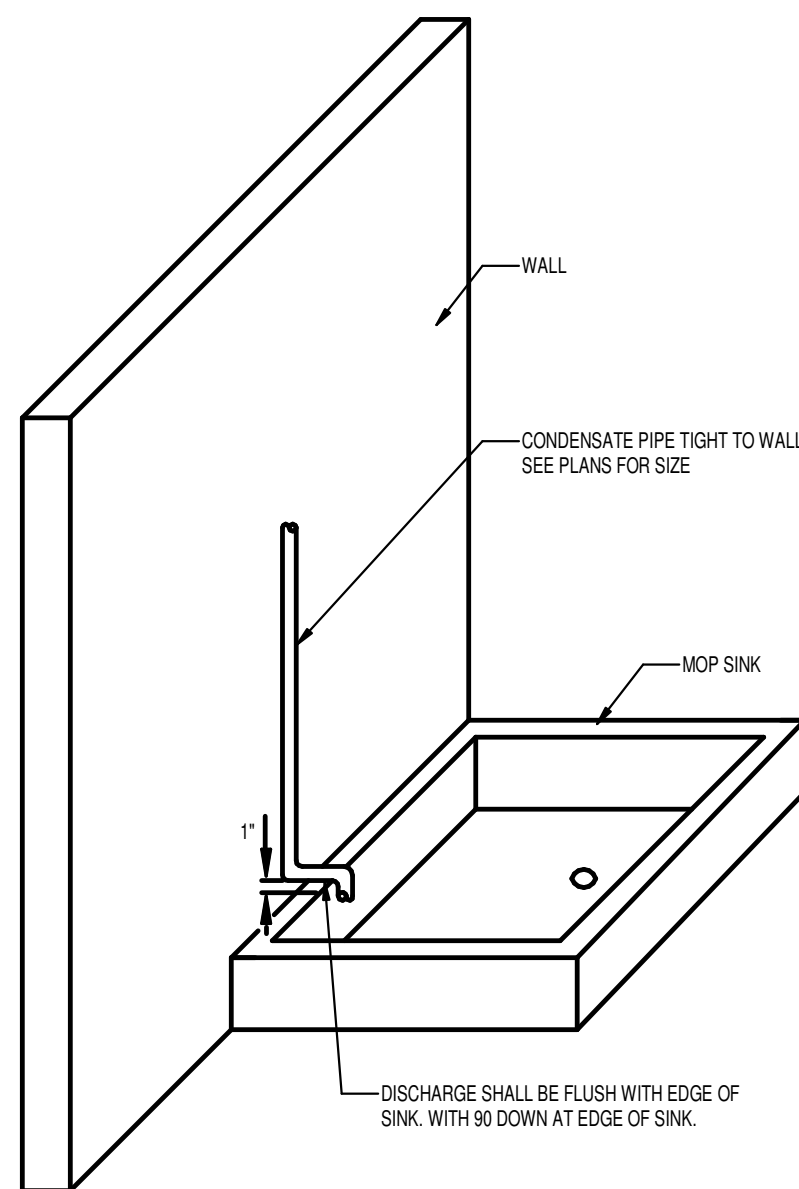
3 CONDENSATE DRAIN DETAIL - DRAW-THRU UNITS (w/ valve)
SCALE: NONE



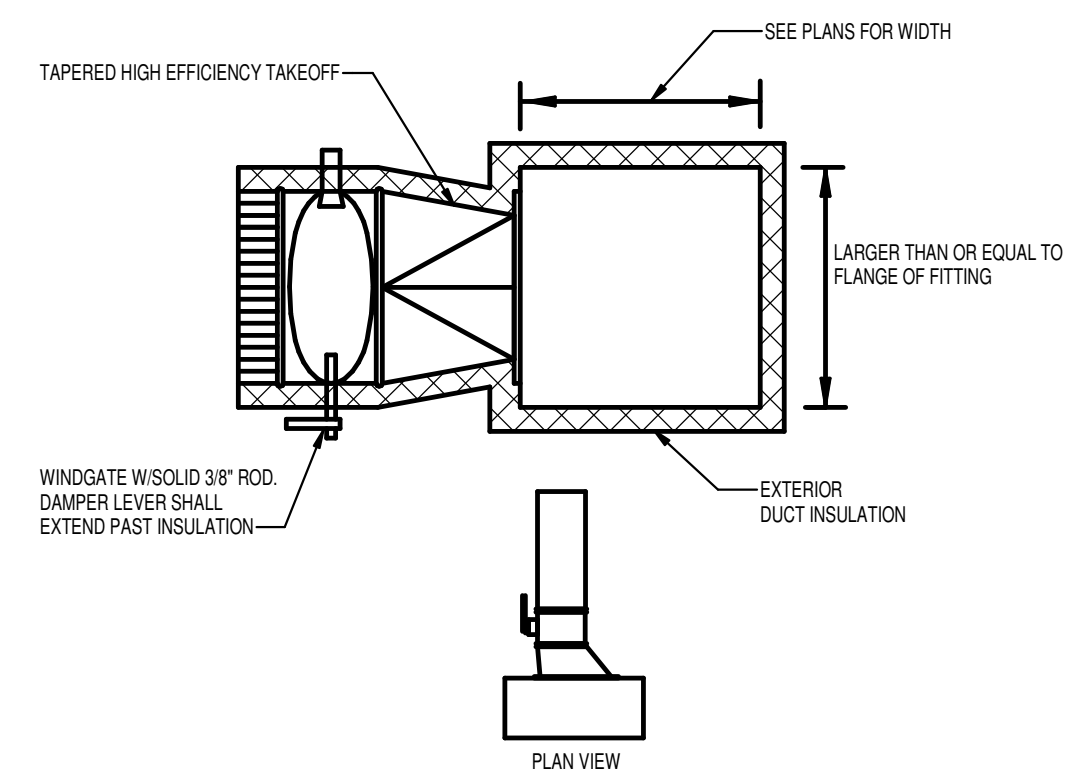
11 PIPE HANGER DETAIL
SCALE: NONE



9 CONDENSATE DRAIN DISCHARGE DETAIL
SCALE: NONE



8 MINISPLIT/HEAT PUMP PIPING (STAND)
SCALE: NONE



4 VOLUME DAMPER TAPERED FITTING W/ DAMPER DETAIL
SCALE: NONE

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Project
NJ STATE POLICE
TROOP A
PORT NORRIS
2007 HIGHLAND ST, PORT NORRIS
COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183

Drawing
HVAC DETAILS

Scale	Job	Sheet
As indicated	21.124	M4.0
Drawn	Date	
NDG	01/16/24	

SCHEDULE OF ROOF TOP UNITS																								
NOTES:																								
1. PROVIDE UNIT WITH POWERED EXHAUST FAN AND 100% ECONOMIZER WITH REFERENCE ENTHALPY CONTROLS, AND FACTORY INSTALLED SUPPLY FAN VFD.																								
2. PROVIDE UNIT WITH MERV-13 FILTERS.																								
3a. PROVIDE UNIT WITH 2 STAGE GAS HEAT.																								
3b. PROVIDE UNIT WITH MODULATING GAS HEAT WITH 5:1 (MINIMUM) TURNDOWN.																								
4. PROVIDE UNIT WITH MODULATING HOT GAS REHEAT (HGRH) FOR HUMIDITY CONTROL.																								
5. PROVIDE UNIT WITH ENERGY RECOVERY WHEEL																								
6. PROVIDE MIN. OF 7" WC AND MAX OF 14" WC GAS PRESSURE AT INLET OF UNIT.																								
7. PROVIDE UNIT WITH A METHOD OF MEASURING OA AIRFLOW, SCHEDULED OA CFM IS MINIMUM REQUIRED DURING OCCUPIED HOURS.																								
8. PROVIDE UNIT WITH 110V CONVENIENCE RECEPTACLE.																								
9. PROVIDE ROOF CURB THAT EXTENDS 18" ABOVE FINISHED ROOF SURFACE.																								
10. PROVIDE UNIT WITH NON-FUSED DISCONNECT SWITCH.																								
11. O.A. INTAKE SHALL BE DRAINABLE AND DESIGNED TO PREVENT ENTRAINMENT OF WIND DRIVEN RAIN.																								
12. PROVIDE UNIT WITH FLEE VENT(S)NOVEL.																								
13. PROVIDE UNIT WITH BACNET CAPABILITY OF COMMUNICATING WITH DDC WITH BACNET FOR FUTURE INTEGRATION.																								
14. PROVIDE UNIT WITH VAPORREPRESSORS.																								
15. PROVIDE 7-DAY FULLY PROGRAMMABLE WALL-MOUNTED THERMOSTAT/HUMIDISTAT WITH WIFI CAPABILITIES.																								
16. PROVIDE DUCT MOUNTED CO2 SENSOR FOR DEMAND-CONTROL VENTILATION, REFER TO CONTROLS SEQUENCE.																								
17. SHOP DRAWINGS MUST INCLUDE PERFORMANCE DATA OR THEY WILL BE REJECTED.																								
MARK	MANUFACTURER	MODEL No.	SENSIBLE (Mbh)	TOTAL (Mbh)	NET HEATING CAPACITY (Mbh)	NET GAS CAPACITY (CFH)	CFM	OA CFM	CLG. DB E.A.T.	CLG. WB E.A.T.	CLG. DB L.A.T.	CLG. WB L.A.T.	HTG. E.A.T.	HTG. L.A.T.	SUPPLY MOTOR H.P.	FRPM	EXHAUST MOTOR H.P.	FRPM	T.S.P. (IN H2O)	E.S.P. (IN H2O)	VOLTAGE	PHASE	MCA	NOTES
RTU-1	TRANE	YH03G0D10	72.40	112.40	120.00	150.0	2300	2300	79.30 °F	66.40 °F	48.70 °F	54.90 °F	54.90 °F	103.00 °F	2	2312	1.5	1651	2.50 in-wg	0.75 in-wg	208	3	61.7	1,2,3b,4,5,6,7,8,9,10,11,12,13,14,15,17
RTU-2	TRANE	YH03G0E3R2A	45.10	80.20	104.00	80.0	2000	400	79.25 °F	66.03 °F</														

SCHEDULE OF GRILLES & DIFFUSERS											
NOTES: 1. FINISH SHALL BE AS DIRECTED BY ARCHITECT FROM MANUFACTURER STANDARD OPTIONS FOR MATERIALS DENOTED BY MODEL NUMBER. 2. CONTRACTOR SHALL CONFIRM CEILING TYPE AND QUANTITY PRIOR TO ORDER, PROVIDE ALL NECESSARY ACCESSORIES NEEDED FOR INSTALLATION. 3. PROVIDE WITH ECOAIR, ANEMOSTAT, OR EQUAL DIFFUSER INSULATION TENT (AT CONTRACTORS OPTION, FIELD INSULATION PER SPEC SECTION 230700 HVAC INSULATION MAY BE PROVIDED). 4. SHOP DRAWINGS MUST INCLUDE PERFORMANCE DATA OR THEY WILL BE REJECTED. 5. HEIGHT A.F.F. SHALL BE COORDINATED WITH G.C. AND ARCHITECT AS REQUIRED.											
MARK	MANUFACTURER	MODEL NO.	CORE TYPE	PANEL SIZE	INLET DIMENSION	NOMINAL CFM	THROW (FT)	PRESSURE DROP (IN.)	SOUND N.C.	MOUNTING	NOTES
E-1	TITUS	PAR	PERFORATED	24" x 24"	22" x 22"	1681	0	0.09	26	LAY-IN	1.2,4
E-2	TITUS	PAR	PERFORATED	12" x 12"	10" x 10"	347	0	0.09	29	SURFACE	1.2,4
E-3	TITUS	PAR	PERFORATED	24" x 24"	22" x 22"	1681	0	0.09	26	SURFACE	1.2,4
E-4	TITUS	355RL	LOUVER	20" x 20"	18"x18"	1285	0	0.07	19	SURFACE	1.2,4,5
R-1	TITUS	PAR	PERFORATED	24" x 24"	22" x 22"	1681	0	0.09	26	LAY-IN	1.2,3,4
S-1	TITUS	OMNI	PLAQUE	24" x 24"	8"Ø	209	4	0.04	< 10	LAY-IN	1.2,3,4
S-2	TITUS	OMNI	PLAQUE	24" x 24"	10"Ø	382	7	0.08	15	SURFACE	1.2,3,4
S-3	TITUS	OMNI	PLAQUE	24" x 24"	10"Ø	382	7	0.08	15	LAY-IN	1.2,3,4
S-4	TITUS	OMNI	PLAQUE	24" x 24"	12"Ø	471	8	0.09	12	LAY-IN	1.2,3,4
S-5	TITUS	OMNI	PLAQUE	24" x 24"	12"Ø	471	8	0.09	12	SURFACE	1.2,3,4

SCHEDULE OF EXHAUST FANS											
NOTES: 1. PROVIDE WITH BACKDRAFT DAMPER AND DISCONNECT. 2. SHOP DRAWINGS MUST INCLUDE PERFORMANCE DATA OR THEY WILL BE REJECTED.											
MARK	AREA SERVED	MANUFACTURER	MODEL No.	HP	FRPM	CFM	STATIC PRESSURE	ELECTRICAL CHARACTERISTICS		FAN MOUNTING	NOTES
EF-1	GENERAL	GREENHECK	G-098-VG	1/4	1222	375	0.50 in-wg	115	1	ROOF	1.2
EF-2	GENERAL - AS REQUIRED	GREENHECK	G-098-VG	1/4	1413	620	0.25 in-wg	115	1	ROOF	1.2
EF-3	GENERAL	GREENHECK	G-130-VG	1/2	1028	1100	0.40 in-wg	115	1	ROOF	1.2

SCHEDULE OF MINI SPLIT SYSTEMS									
NOTES:									
1. PROVIDE WITH REMOTE MOUNTED LCD DISPLAY WITH TEMPERATURE SETTING AND FAN SPEED CONTROL.									
2. PROVIDE UNIT WITH CONDENSATE PUMP POWERED BY UNIT.									
3. CONTRACTOR SHALL ROUTE REFRIGERANT PIPING PER MANUFACTURER RECOMMENDATIONS.									
4. INDOOR UNIT SHALL BE ELECTRICALLY FED FROM THE OUTDOOR UNIT PER MANUFACTURER RECOMMENDATIONS.									
5. SHOP DRAWINGS MUST INCLUDE PERFORMANCE DATA OR THEY WILL BE REJECTED.									
MARK	MANUFACTURER	MODEL NO.	TOTAL COOLING CAPACITY TON	HEATING CAPACITY TON	CFM	ELECTRICAL CHARACTERISTICS			NOTES
						VOLTAGE	PHASE	MCA	
SS-121	MITSUBISHI ELECTRIC	MSZ-GE12NA	22400.0 Btu/h	27600.0 Btu/h	456	208	1	1.2,3,4,5	
SS-131	MITSUBISHI ELECTRIC	MSZ-GE13NA	32000.0 Btu/h	39300.0 Btu/h	656	208	1	1,2,3,4,5	

SCHEDULE OF CONDENSING UNITS / HEAT PUMPS									
<p>NOTES:</p> <p>1. DIVISION 26 SHALL PROVIDE DISCONNECT SWITCH.</p> <p>2. PROVIDE SINGLE POINT WIRING KIT AND ALL DAMPERS, SENSORS, AND CONTROL COMPONENTS AS REQUIRED FOR SPECIFICATION OF OPERATION INDICATED.</p> <p>3. FLOOR OR UNIT SHALL BE ELECTRICALLY CONNECTED TO THE OUTDOOR UNIT PER MANUFACTURER RECOMMENDATIONS.</p> <p>4. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS WITH LONG LINE KITS AND OTHER ACCESSORIES AS REQUIRED.</p> <p>5. MAINTAIN 24" (MIN.) BETWEEN UNITS TO ALLOW PROPER AIRFLOW.</p> <p>6. INDOOR UNIT SHALL BE ELECTRICALLY CONNECTED TO THE OUTDOOR UNIT PER MANUFACTURER RECOMMENDATIONS.</p> <p>7. SHOP DRAWINGS MUST INCLUDE PERFORMANCE DATA OR THEY WILL BE REJECTED.</p>									
MARK	MANUFACTURER	MODEL NO	COOLING CAPACITY	HEATING CAPACITY	SEER	VOLTAGE	PHASE	MCA	NOTES
HP-121	MITSUBISHI ELECTRIC	MUZ-GS24NA	22400 Btu/h	27600 Btu/h	20.5	208		18	ALL
HP-131	MITSUBISHI ELECTRIC	MUZ-GS36NA	32400 Btu/h	35200 Btu/h	18.4	208	1	22	ALL

SCHEDULE OF ELECTRIC CABINET HEATER						
NOTES: 1. COLOR OR AS SELECTED BY ARCHITECT FROM MANUFACTURER STANDARD COLORS. 2. CONTRACTOR TO FIELD VERIFY LENGTH OF MOUNTING WALL WITH SHOP DRAWING SUBMITTAL. 3. PROVIDE WITH DISCONNECT SWITCH, THERMOSTAT, RELAYS, AND ALL ACCESSORIES FOR SINGLE POINT OF ELECTRIC CONNECTION UTILIZATION. 4. PROVIDE WITH SEMI-RECESSED MOUNTING SLEEVE. 5. SHOP DRAWINGS MUST INCLUDE PERFORMANCE DATA OR THEY WILL BE REJECTED.						
MARK	MANUFACTURER	MODEL NO.	HEATING CAPACITY	WATTS	ELECTRICAL CHARACTERISTICS	NOTES
					VOLTAGE PHASE	
CH-1	MARKLE	E305ST2DWB	5120 0 BluH	1500 W	120 1	WALL 1,2,3,4,5,6

SCHEDULE OF ELECTRIC UNIT HEATERS											
NOTES: 1. PROVIDE UNITS WITH INTEGRAL THERMOSTAT. 2. PROVIDE UNIT WITH DISCONNECT SWITCH AND OVERLOAD PROTECTION. 3. SHOP DRAWINGS MUST INCLUDE PERFORMANCE DATA OR THEY WILL BE REJECTED.											
MARK	MANUFACTURER	MODEL NO.	HEATING CAPACITY	CFM	KW	MOTOR H.P.	RPM	ELECTRICAL CHARACTERISTICS			NOTES
								VOLTAGE	PHASE	MCA	
UH-1	QMARK	UJH-1020	34100.0 Btu/h	500	9.6	1/10	1550	208	3	28	ALL
UH-2	QMARK	UJH-1020	34100.0 Btu/h	500	9.6	1/10	1550	208	3	28	ALL
UH-3	QMARK	UJH-1020	34100.0 Btu/h	500	9.6	1/10	1550	208	3	28	ALL
UH-4	QMARK	UJH-1020	34100.0 Btu/h	500	9.6	1/10	1550	208	3	28	ALL

SCHEDULE OF LOUVER									
NOTES: 1. DESIGN SHALL BE DRAINABLE PREVENT INFILTRATION OF WIND DRIVEN RAIN. 2. PROVIDE WITH BIRDSCREEN. 3. PROVIDE WITH 120V MOTORIZED DAMPER. REFER TO GAS SENSOR MODULE DETAIL FOR SEQUENCE. 4. SHOP DRAWINGS MUST INCLUDE PERFORMANCE DATA OR THEY WILL BE REJECTED.									
MARK	MANUFACTURER	MODEL No.	TYPE	CFM	PRESSURE DROP	VELOCITY	FREE AREA	MOUNTING	NOTES
L-1	GREENHECK	ESD-635	INTAKE	1100	0.08 in-wg	770 FPM	1 SF	WALL	ALL

[illegible]

SCALE: NONE

EF-1
FAN SHALL RUN CONTINUOUSLY.

EF-2
FAN SHALL BE OPERATED OFF OF AN EMERGENCY PUSH BUTTON, LOCATION AS SHOWN ON PLANS.

EF-3
REFER TO GAS SENSOR MODULE DETAIL FOR SEQUENCE.

1. THE RTU SHALL BE CONTROLLED BY LOCAL SENSORS (THERMOSTAT AND HUMIDISTAT) FOR OCCUPIED AND UNOCCUPIED OPERATION AND RUN TIME SEQUENCES. THE RTU SHALL START AS REQUIRED TO ACHIEVE ZONE SETPOINTS DURING UNOCCUPIED CYCLE AS DESCRIBED BELOW. DURING OCCUPIED OPERATION, RTU FAN SHALL RUN CONTINUOUSLY.
2. **OCCUPIED MODE**
THE RTU SHALL VARY THE SUPPLY FAN ECONOMICALLY AND MODULATE (OR CYCLE) COMPRESSORS, MODULATE (OR STAGE) HEAT, AND/OR ENABLE AIRSIDE ECONOMIZING TO MAINTAIN ZONE TEMPERATURE AT SETPOINT. THE OA DAMPER SHALL OPEN TO BRING IN THE REQUIRED AMOUNT OF VENTILATION.
3. **UNOCCUPIED MODE**
THE RTU SHALL CYCLE TO MAINTAIN ROOM TEMPERATURE AND HUMIDITY, AND THE OUTSIDE AIR DAMPERS SHALL CYCLE TO MAINTAIN OUTSIDE AIR ENTHALPY BELOW THE INDOOR ENTHALPY AND THE OUTDOOR TEMPERATURE IS BELOW 70°F AND THE DISCHARGE AIR RISES ABOVE SETPOINT, THE OUTSIDE AIR DAMPER SHALL MODULATE IN ECONOMIZER OPERATION. THE DDC SHALL CONTINUE TO MONITOR THE SPACE STAT21 READINGS.
4. **DEHUMIDIFICATION**
DEHUMIDIFICATION SHALL BE ACHIEVED BY ROUTING (AND MODULATING) HOT REFRIGERANT GAS FROM THE DISCHARGE LINE OF THE COMPRESSOR THROUGH THE REHEAT COIL.
5. HUMIDISTAT SHALL MAINTAIN SETPOINT (50% ADJ.) BY ENERGIZING RTU/FAN DURING NIGHT SETBACK PERIODS.
6. THERMOSTAT SHALL MAINTAIN 68°F TO 78°F RANGE BY ENERGIZING RTU/FAN DURING NIGHT SETBACK PERIODS.
7. **ECONOMIZER**
THIS ACCESSORY SHALL BE AVAILABLE WITH POWERED EXHAUST FAN. THE ASSEMBLY INCLUDES FULLY MODULATING EXHAUST MOTOR AND DAMPERS, MINIMUM POSITION SETTING, PRESET LINEAR, WINDING HARNESS WITH FLG-3, SPRING RETURN ACTUATOR AND DIFFERENTIAL ENTHALPY CONTROL. IN ADDITION TO FIXED DRY BULB CONTROL, THE ECONOMIZER ARRIVES IN THE SHIPPING POSITION AND SHALL BE MOVED TO THE OPERATION POSITION BY THE CONTRACTOR.

CARBON DIOXIDE (CO2) CONTROL (RTU-2 & 3)
 THE CO2 SENSOR LOCATED IN THE RETURN AIR DUCT (WHERE NOTED) SHALL MONITOR THE SPACE CO2 CONCENTRATION (ZIN-Q) AND THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN IN SMALL INCREMENTS UNTIL THE CO2 LEVEL IS SATISFIED OR THE OUTSIDE AIR DAMPER REACHES THE FULL OPEN POSITION. IF THE MEASURED CO2 CONCENTRATION FALLS, THE OUTSIDE AIR DAMPER SHALL MODULATE TOWARD MINIMUM OUTDOOR AIR POSITION SETPOINT. DEMAND CONTROL VENTILATION (DCV) PROGRAMMING SHALL RESET THE FLOW VOLUME OF THE RTU FROM MINIMUM OCCUPIED FLOW VALUE TO FULL ECONOMIZER OCCUPIED FLOW VALUE TO MEET SETPOINT (ADJ.).

Energy Recovery Wheel for RTU-1			
Summer Conditions		Winter Conditions	
Ventilation Supply	Outside	Ventilation Supply	Outside
Airflow: 2,300 CFM	Airflow: 2,432 CFM**	Airflow: 2,300 CFM	Airflow: 2,432 CFM**
DB: 79.3 F	DB: 92.0 F	DB: 54.9 F	DB: 18.0 F
WB: 66.4 F	WB: 75.0 F	WB: 47.5 F	WB: 13.0 F
PD: 1.19 in H ₂ O		PD: 1.19 in H ₂ O	
Return	Exhaust	Return	Exhaust
Airflow: 2,300 CFM	Airflow: 2,432 CFM	Airflow: 2,300 CFM	Airflow: 2,432 CFM
DB: 75.0 F	DB: 87.4 F	DB: 70.0 F	DB: 29.3 F
WB: 75.6 F	WB: 71.5 F	WB: 55.0 F	WB: 28.4 F
ESP: 0.75 in H ₂ O	ERV PD: 1.01 in H ₂ O	ESP: 0.75 in H ₂ O	ERV PD: 1.01 in H ₂ O
Total Capacity: 73.56 MBH		Total Capacity: 150.76 MBH	
Sensible Capacity: 30.38 MBH	Eff: 0.74	Sensible Capacity: 106.53 MBH	Eff: 0.74
Latent Capacity: 43.18 MBH	Eff: 0.7	Latent Capacity: 50.23 MBH	Eff: 0.7

SCALE: NONE

1. PROVIDE CO/NO₂ SENSORS AS INDICATED ON DRAWINGS.
2. WHEN ANY SENSOR DETECTS CO LEVELS ABOVE 25ppm, OR IF A FAULT IS DETECTED, THE CORRESPONDING ALARM STATUS INDICATOR SHALL LIGHT, AND THE FAN RELAY DE-ENERGIZE, CAUSING THE CORRESPONDING FANS) TO RUN PER SEQUENCE BELOW.
3. WHEN CO/NO₂ RETURNS TO SAFE LEVELS, AND TEMPERATURE DROPS BELOW SPACE SET POINT, EXHAUST FAN SHALL DENERGIZE.

1. THRESHOLD #1: ABOVE 25 PPM CO OR 1 PPM NO2 (ADJ). THE EXHAUST FAN SHALL RUN TO BRING IN FRESH AIR AND MAINTAIN SATISFACTORY CO/NO₂ LEVEL.
2. THRESHOLD #2: HIGH ALARM LEVEL TRIP AT 150 PPM CO OR 3 PPM NO2 (ADJ). THE CONTROLLER SHALL TURN ON HORNS/BUZZER AND ALARM LED LOCATED ON CONTROLLER OF HIGH PPM CO/NO₂ CONCENTRATIONS.
3. INTERLOCK MOTOR OPERATED DAMPERS ON OUTDOOR AIR LOUVER TO FULLY OPEN.

LIGHTING	
	CEILING MOUNTED LIGHTING FIXTURE AS SCHEDULED.
	WALL MOUNTED LIGHTING FIXTURE AS SCHEDULED.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	CEILING OUTLET AND LIGHTING FIXTURE ON EMERGENCY POWER AS SCHEDULED.
	CEILING OUTLET AND EXIT LIGHT FIXTURE AS SCHEDULED.
	WALL OUTLET AND EXIT LIGHT FIXTURE AS SCHEDULED.
	ARROWS INDICATE EGRESS EXIT SIGNAGE CHEVRON(S) REQUIRED.
	SYMBOL INDICATES FIXTURE TYPE WHEN SHOWN ON LIGHTING PLANS ADJACENT TO FIXTURE.
	LOWER CASE LETTERS AT OUTLETS INDICATES SWITCHING ARRANGEMENT.
	SINGLE POLE 20A, 120V/277V SWITCH, MOUNT 48" A.F.F. TO TOP, UNLESS NOTED OTHERWISE. SUBSCRIPT: 3 = THREEWAY 2P = TWO POLE MS = VACANCY SENSOR LV = LOW VOLTAGE, ACUITY nPDM OR APPROVED EQUAL.
	OUTLET BOX IN WALL AT 44" TO BOTTOM AND DIMMER SWITCH WITH DUAL TECHNOLOGY VACANCY SENSOR SWITCH, ACUITY WXS PDT1 OR APPROVED SIMILAR.
	OUTLET BOX IN WALL AT 44" TO BOTTOM AND LOW VOLTAGE DIMMER SWITCH WITH DUAL TECHNOLOGY VACANCY SENSOR SWITCH, ACUITY NWSX PDT LV OR APPROVED SIMILAR.
	CEILING OUTLET AND DUAL TECHNOLOGY MOTION SENSOR FOR LIGHTING CONTROL, ACUITY nCM PDT 9 OR APPROVED SIMILAR.
	OUTLET BOX MOUNTED MOTION LOW VOLTAGE SENSOR POWER PACK WITH DIMMING OUTPUT, ACUITY nPP16 D EPF OR APPROVED SIMILAR.
	LIGHTING CONTROL DAYLIGHT SENSOR, SUBSCRIPT INDICATES THE LIGHTING SWITCH LEG LETTER OF THE FIXTURES THAT IT SHALL CONTROL, ACUITY nCM ADOX OR APPROVED SIMILAR.
	SITE LIGHTING FIXTURE AS SCHEDULES COMPLETE WITH REINFORCED CONCRETE BASE AND ALL REQUIRED MOUNTING ACCESSORIES.
	FLOODLIGHT TYPE LIGHTING FIXTURE AS SCHEDULED. PROVIDE COMPLETE WITH ALL MOUNTING HARDWARE AND CONCRETE BASE.
	EMERGENCY BATTERY INVERTER IIS 550 I, RATED FOR 550W EMERGENCY POWER.
	WALL OUTLET AND DUAL TECHNOLOGY MOTION SENSOR FOR LIGHTING CONTROL, ACUITY nCM PDT 9 OR APPROVED SIMILAR.
GENERAL DEVICE SUBSCRIPTS	
	NUMBER AT OUTLET INDICATES CIRCUIT ARRANGEMENT.
	SUBSCRIPT INDICATED LIGHTING FIXTURE IS NON-SWITCHED AND SERVES AS NIGHTLIGHT.
	INDICATES GROUND FAULT CURRENT INTERRUPTER DEVICE.
	INDICATES SURFACE MOUNTED DEVICE WHEN INDICATED ON POWER & SYSTEMS PLANS.
	INDICATES WEATHER PROOF WHEN SHOWN ADJACENT TO SYMBOLS ON LIGHTING, POWER, OR SYSTEMS PLANS. PROVIDE APPROPRIATE ENCLOSURES AND/OR COVERS.
	INDICATES DEVICE FOR ELECTRIC WATER COOLER WHEN INDICATED ON POWER & SYSTEMS PLANS.
	INDICATES RECEPTACLE IS DEDICATED FOR MICROWAVE WHEN SHOWN ON POWER PLANS.
	INDICATES RECEPTACLE IS DEDICATED FOR TELEVISION WHEN SHOWN ON POWER OR SYSTEMS PLANS. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS BEFORE ROUGH-IN.
	INDICATES REFRIGERATOR.
	INDICATES RECEPTABLES IS DEDICATED FOR UNDERCOUNTER REFRIGERATOR WHEN SHOWN ON POWER PLANS.
	INDICATES COFFEE MAKER.
	INDICATES RECEPTACLE IS DEDICATED FOR VENDING MACHINE WHEN SHOWN ON POWER PLANS.
	INDICATES COPIER RECEPTACLE WITH INTEGRAL SURGE SUPPRESSION.
	INDICATES TWO-PIECE SURFACE METAL RUNWAY.
RACEWAYS	
	CIRCUIT BURIED UNDERGROUND OR CONCEALED BENEATH FLOOR.
	CIRCUIT EXPOSED.
	CIRCUIT CONCEALED IN CEILING OR WALL. CROSSBARS INDICATE NUMBER OF CONDUCTORS REQUIRED. CONDUIT NOT SIZED IS 1/2". CONDUCTORS NOT SIZED ARE NO. 12.
	HOMERUN TO PANELBOARD INDICATED. NUMBER OF ARROWHEADS INDICATES CIRCUIT NUMBERS. PREFIX INDICATES PANEL NUMBER.
	EQUIPMENT POINT OF CONNECTION. VERIFY WITH EQUIPMENT PROVIDER AND/OR INSTALLER.
	J-HOOK CABLE SUPPORTING SYSTEM MOUNTED IN ACCESSIBLE CEILING CAVITY.
	UTILITY UNDERGROUND ELECTRIC LINE.
	UTILITY OVERHEAD ELECTRIC LINE.
	UTILITY UNDERGROUND COMMUNICATIONS LINE.

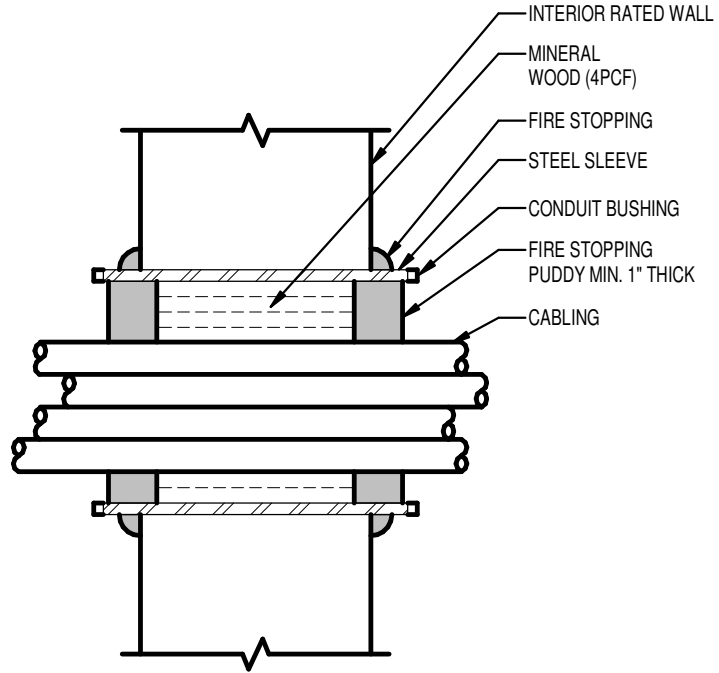
POWER	
	WALL MOUNTED JUNCTION BOX, MOUNT AT 18" A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE.
	CEILING OR FLOOR MOUNTED JUNCTION BOX.
	FLOORBOX WITH TWO RECESSED 20 A, 125V DUPLEX RECEPTACLES WITH FEATURES AS SPECIFIED. SUBSCRIPT INDICATES TYPE. REFER TO DETAIL.
	MULTISERVICE FLOORBOX WITH RECESSED OUTLETS WITH FEATURES AS SPECIFIED. SUBSCRIPT INDICATES TYPE. REFER TO DETAIL.
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 18" A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 125V DOUBLE DUPLEX (QUADRUPLEX) RECEPTACLE. MOUNT AT 18" A.F.F. TO BOTTOM UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE FOR TV DISPLAY. VERIFY MOUNTING HEIGHT WITH A/V PROVIDER BEFORE ROUGH-IN.
	SPECIAL OUTLET AS NOTED. MOUNT 18" A.F.F. TO BOTTOM UNLESS NOTED OTHERWISE.
	DOOR HARDWARE POWER SUPPLY.
	208V/120V SURFACE MOUNTED PANELBOARD. DASH LINE INDICATES N.E.C. CLEARANCE.
	FUSIBLE DISCONNECT SWITCH, MOUNT 4'-6" A.F.F. TO CENTER, UNLESS NOTED OTHERWISE. DASH LINE INDICATES N.E.C. CLEARANCE.
	MOTOR CONTROLLER AND FUSIBLE DISCONNECT SWITCH TO SUIT MOTOR, MOUNT 4'-6" A.F.F. TO CENTER, UNLESS NOTED OTHERWISE.
	POLYMER CONCRETE HANDHOLE AS INDICATED.
	MOTOR.
	MANUAL MOTOR CONTROLLER WITH PILOT LIGHT TO SUIT MOTOR, MOUNT 44" A.F.P TP BOTTOM, UNLESS NOTED OTHERWISE.
	POWER POLE.
FIRE ALARM SYSTEM	
	FIRE ALARM SYSTEM VISUAL UNIT. WALL MOUNT AT 80" A.F.F. TO STROBE.
	FIRE ALARM AUDIO UNIT. MOUNT 80" A.F.F. TO BOTTOM, OR 6" BELOW CEILING TO TOP, WHICHEVER IS LOWER. SUBSCRIPT C: CEILING MOUNT.
	FIRE ALARM SYSTEM AUDIO/VISUAL UNIT. MOUNT 80" A.F.F. TO STROBE.
	MANUAL FIRE ALARM ADDRESSABLE PULL STATION. MOUNT 48" A.F.F. TO TOP.
	FIRE ALARM ADDRESSABLE CONTROL MODULE.
	FIRE ALARM ADDRESSABLE MONITOR MODULE.
	CEILING MOUNTED SMOKE DETECTOR. SUBSCRIPT R = WITH RELAY BASE. SUBSCRIPT C=COMBINATION SMOKE DETECTOR WITH CARBON MONOXIDE DETECTOR AND TEMPORAL SOUNDER BASE
	CEILING MOUNTED FIRE ALARM HEAT DETECTOR.
	CEILING MOUNTED CARBON MONOXIDE DETECTOR WITH A TEMPORAL 4 SOUNDER BASE.
	ADDRESSABLE SMOKE DETECTOR, DUCT TYPE. PROVIDE REMOTE TEST SWITCH IN READILY ACCESSIBLE LOCATION. ACTIVATION OF DETECTOR SHALL CAUSE FAN TO SHUT-DOWN.
	DUCT SMOKE DETECTOR REMOTE STATUS LAMP INDICATOR FLUSH MOUNTED IN CEILING.
ONE-LINE DIAGRAM	
	TRANSFORMER.
	CIRCUIT BREAKER.
	POINT OF CONNECTION TO GROUND POTENTIAL.
	NON-FUSED DISCONNECT SAFETY SWITCH.
	FUSE.
	FUSED SAFETY SWITCH.
	POINT OF CONNECTION TO EXISTING.
	NORMALLY OPEN CONTACT.
	NORMALLY CLOSED CONTACT.
	SOLIDLY GROUNDED WYE CONNECTION.
	DELTA CONNECTION.

SECURITY AND COMMUNICATIONS	
	CARD FOB READER. MOUNT AT 44" A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE. READER PROVIDED BY OWNER.
	KEYPAD, MOUNT AT 44" A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE. KEYPAD PROVIDED BY OWNER.
	ACCESS CONTROL DOOR RELEASE BUTTON. MOUNT AT 44" A.F.F. TO BOTTOM, UNLESS STATED OTHERWISE.
	ACCESS CONTROLLED DOOR. SUBSCRIPT INDICATES TYPE. COORDINATE REQUIREMENTS WITH DOOR HARDWARE PROVIDER. REFER TO RACEWAY DETAILS.
	CCTV SECURITY CAMERA. PROVIDE SINGLE DATA JACK WITH CABLE BACK TO IT ROOM AND TERMINATE. CAMERA PROVIDED BE OWNER.
	INTERCOM STATION WITH VIDEO CAMERA. MOUNT AT 44" A.F.F TO BOTTOM, UNLESS NOTED OTHERWISE. SUBSCRIPT M INDICATES MASTER STATION WITH VIDEO MONITOR.
	OUTLET BOX IN WALL WITH DATA JACKS AND DEVICE PLATE. PROVIDE 1" CONDUIT FROM OUTLET BOX TO ACCESSIBLE CEILING AND BUSH END. PROVIDE CABLE FROM EACH JACK IN OUTLET BOX TO TELECOMMUNICATIONS SYTEM EQUIPMENT AT RACK IN IT ROOM AND TERMINATE. MOUNT 18" A.F.F TO BOTTOM, UNLESS NOTED OTHERWISE.
	#V: NO. OF VOICE JACKS #D: NO. OF DATA JACKS
	OUTLET BOX WITH (1) DATA JACK AND DEVICE PLATE FOR WIRELESS ACCESS POINT. PROVIDE 1" CONDUIT FROM OUTLET TO J-HOOK SYSTEM IN CORRIDOR. PROVIDE CABLE FROM JACK IN OUTLET BOX TO TELECOMMUNICATIONS SYTEM EQUIPMENT AT RACK IN IT ROOM AND TERMINATE. WIRELESS ACCESS POINT DEVICE SHALL BE PROVIDED BY THE OWNER.
	WALL OUTLET AND TELEVISION SIGNAL JACK. COORDINATE LOCATION AND MOUNTING HEIGHT WITH TELEVISION PROVIDER BEFORE ROUGH-IN. PROVIDE 1" CONDUIT FROM OUTLET BOX TO ACCESSIBLE CEILING CAVITY AND BUSH END.

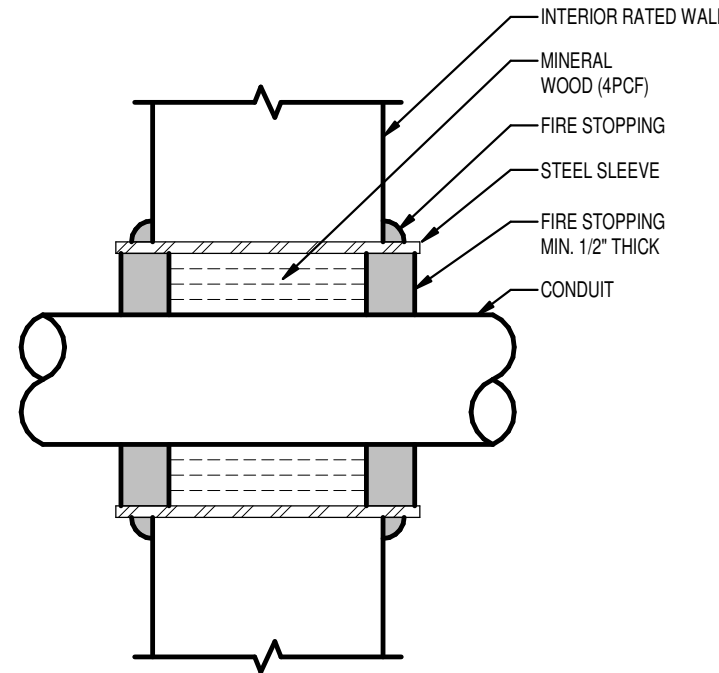
BRANCH CIRCUIT VOLTAGE DROP TABLE	
WIRE SIZE	MAXIMUM CIRCUIT LENGTH
20A, 120V, 1P	
#12 AWG	61 FEET
#10 AWG	102 FEET
#8 AWG	154 FEET
#6 AWG	240 FEET
<div><div><div>• LENGTHS REPRESENT THE MAXIMUM CIRCUIT LENGTH BASED ON THE WIRE SIZE AND COPPER CONDUCTORS FOR A MINIMUM VOLTAGE DROP OF 3%.</div><div>• LENGTHS SHALL BE MEASURED FROM PANELBOARD TO THE FARTHEST DEVICE CONNECT TO CIRCUIT.</div><div>• THE PHASE AND NEUTRAL CONDUCTORS SHALL BE SIZED AS INDICATED FOR THE ENTIRE LENGTH OF RUN</div><div>• IF CONDUCTORS ARE UPSED FOR VOLTAGE DROP, GROUND CONDUCTORS SHALL ALSO BE UPSIZED PER NEC 250.122.</div></div></div>	

ELECTRICAL GENERAL NOTES:

- A. PROVIDE ALL TEMPORARY EGRESS EXIT LIGHTING FIXTURES AS REQUIRED DURING CONSTRUCTION.
- B. COORDINATE CONDUIT ROUTING WITH MECHANICAL CONTRACTOR TO AVOID CONFLICTS WITH EQUIPMENT AND EQUIPMENT CLEARANCES.
- C. SEAL AROUND ALL NEW AND EXISTING PENETRATIONS THROUGH RATED WALLS WITH FIRE STOPPING. REFER TO ARCHITECTURAL RATINGS DETAIL KEY PLAN FOR RATED WALL LOCATIONS.
- D. FINAL CONNECTION TO ALL CEILING MOUNTED DEVICES SHALL BE MADE WITH FLEX CONDUIT.
- E. FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONDUIT. FIRE ALARM WIRING SHALL COMPLY WITH NEC 760.
- F. COORDINATE LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- G. PROVIDE FIRE INTUMESCENT PUTTY PAD BEHIND AROUND ALL ELECTRICAL BACKBOXES INSTALLED WITHIN FIRE RATED WALLS. PUTTY PADS SHALL BE SPECIFIED TECHNOLOGIES, INC. SERIES 589. INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFERENCE ARCHITECTURAL RATINGS DETAIL KEY PLAN FOR RATED WALL LOCATIONS.
- H. EACH BRANCH CIRCUIT SHALL INCORPORATE A DEDICATED NEUTRAL CONDUCTOR WHERE NEUTRAL IS REQUIRED. THE NEUTRAL CONDUCTOR SHALL NOT BE SHARED BETWEEN CIRCUITS, UNLESS SPECIFICALLY INDICATED FOR CIRCUITS SERVING SYSTEMS FURNITURE.
- I. EACH CONDUIT CONTAINING BRANCH CIRCUITS SHALL CONTAIN A GREEN EQUIPMENT GROUND CONDUCTOR.
- J. CONDUIT SHALL BE RUN WITH SMOOTH, EASY BENDS. EXPOSED CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO WALLS, CEILINGS, BEAMS, AND COLUMNS. CONCEALED CONDUIT MAY BE RUN AT ANGLES OTHER THAN PARALLEL OR PERPENDICULAR TO BUILDING LINES BUT SHALL BE GROUPED IN A NEAT AND WORKMANLIKE MANNER. DISSIMILAR ANGLES AND CROSSCROSS ARRANGEMENT WILL NOT BE ACCEPTABLE.
- K. EXPOSED PARALLEL OR BANKED RACEWAYS SHALL BE RUN TOGETHER TO PROVIDE A NEAT APPEARANCE. BENDS IN PARALLEL OR BANKED RUNS SHALL BE MADE FROM THE SAME CENTER LINE SO THAT THE BENDS ARE PARALLEL. STANDARD MANUFACTURERS BENDS ARE ALLOWED FOR GROUPS OF 90 DEGREE BENDS IF THE CONDUITS ARE CLOSE TO THE SAME SIZES. THIS SHALL REQUIRE THAT THERE BE A CHANGE IN THE PLANE OF THE RUN, SUCH AS FROM WALL TO CEILING, AND THE RACEWAYS OF THE SAME SIZE. IN OTHER CASES, PARALLEL RACEWAYS SHALL BE FIELD-BENT.
- L. ALL RECEPTABLES LOCATED WITHIN 6 FEET OF A SINK OR WATER SOURCE SHALL INCLUDE INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER, (GFI).
- M. CONDUITS SHALL NOT BE EMBEDDED IN FLOOR SLABS.
- N. THE ELECTRICAL INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE 2020 NATIONAL ELECTRICAL CODE (NEC) AND THE NEW JERSEY UNIFORM CONSTRUCTION CODE.



1 FIRESTOP DETAIL - CABLING WITH SLEEVE
SCALE: NONE



2 FIRESTOP DETAIL - CONDUIT WITH SLEEVE
SCALE: NONE

Revisions		
No.	Date	Description
1	12/14/23	RELEASED FOR REVIEW
2	1/16/24	RELEASED FOR BIDDING



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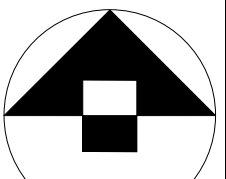
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Project
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Drawing
ELECTRICAL LEGEND,
GENERAL NOTES &
DETAILS



Scale	Job	Sheet
NONE	21.124	
Drawn	Date	E0.1
KA	01/16/24	



PROVIDE (2) 1/2" CONDUITS FOR THE SITE LIGHTING. ONE SHALL BE SPARE
PROVIDE A PULL STRING IN THE CONDUIT.

COORDINATE TRANSFORMER ORIENTATION, LOCATION, AND REQUIREMENTS
WITH ELECTRICAL UTILITY CO.

VERIFY ELECTRICAL REQUIREMENTS WITH GATE PROVIDER BEFORE ROUGH
IN. PROVIDE ALL REQUIRED WIRING, RACEWAYS, AND CIRCUIT PROTECTION.
PROVIDE ALL REQUIRED CONDUITS AND REQUIREMENTS

CONDUITS SHALL SLOPE TO HANDHOLE.

PROVIDE CARD HEADER AND VIDEO INTERCOM SYSTEM FOR PEDESTRIAN
GATE. COORDINATE REQUIREMENTS WITH GATE PROVIDER

COORDINATION OF GATE REQUIREMENTS WITH PEDESTRIAN, COORDINATE AND
PROVIDE ALL ELECTRICAL COMMUNICATIONS, CONTROL, AND SECURITY
REQUIREMENTS WITH CIVIL ENGINEER AND WITH THE OWNER BEFORE
ROUGH IN.

PROVIDE VIDEO INTERCOM SYSTEM FOR VEHICLE ENTRANCE GATE AT
CONDUIT OF GATE AT DUTY SGT. 102.

ROUTE (2) 1/2" INCH CONDUIT TO ROOM 121 AND (1) 2" INCH CONDUIT TO
DUTY SARGENT 102.

VERIFY EXISTING LOCATION IN FIELD PRIOR TO ROUGH IN.

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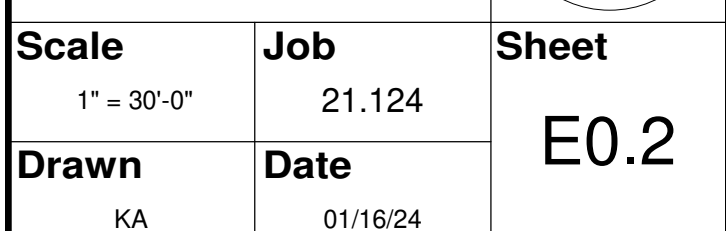
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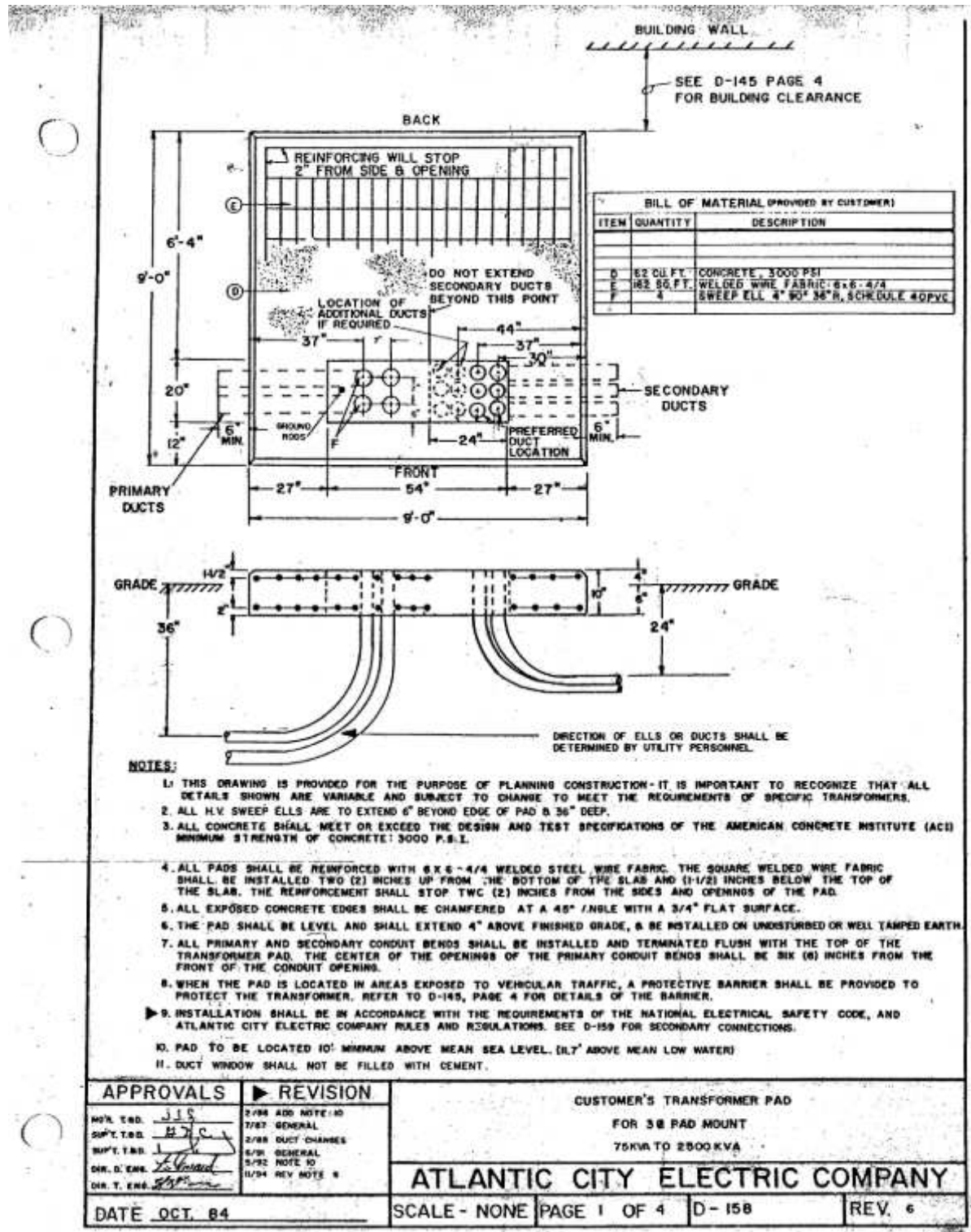
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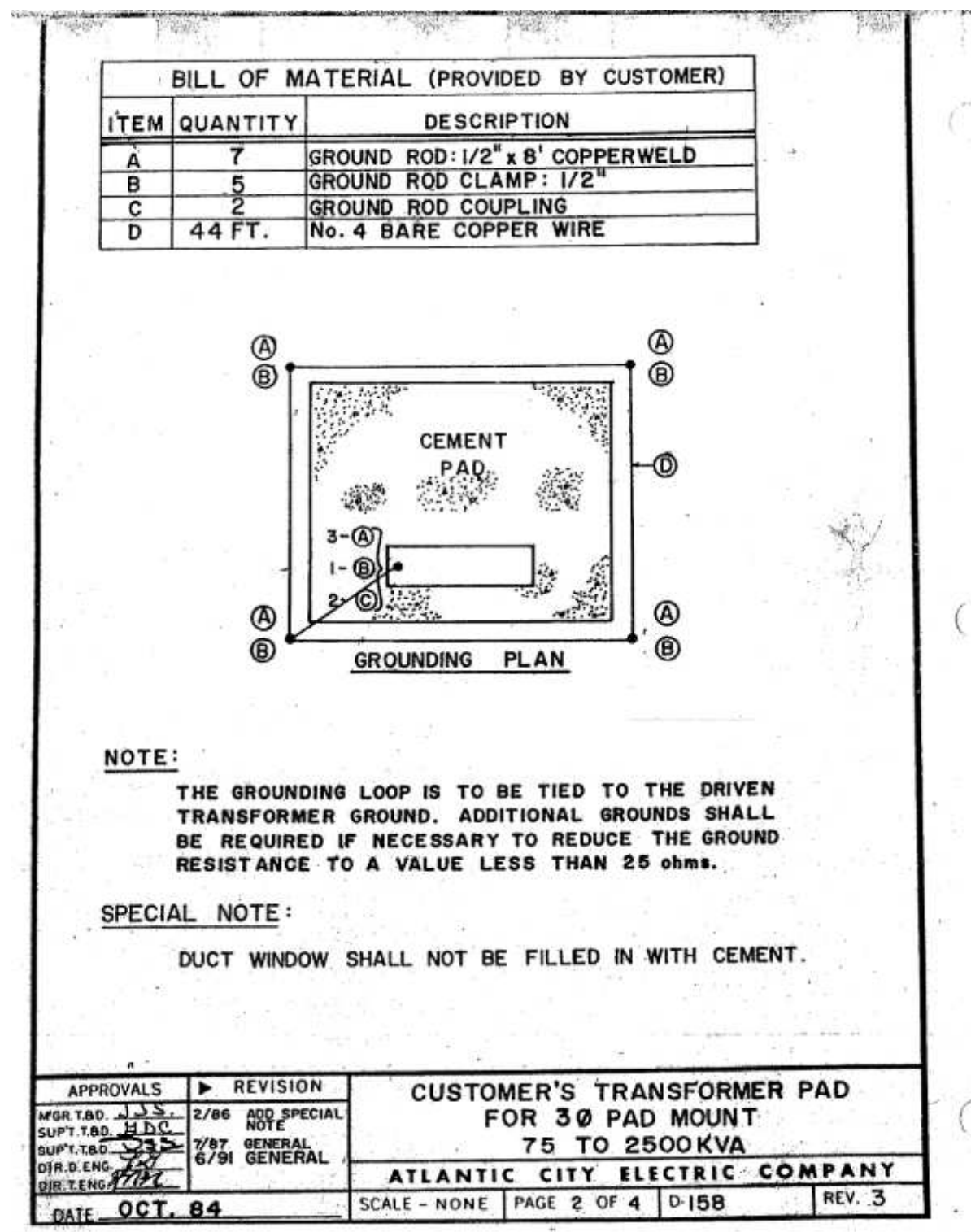
Drawing

SITE ELECTRICAL PLAN

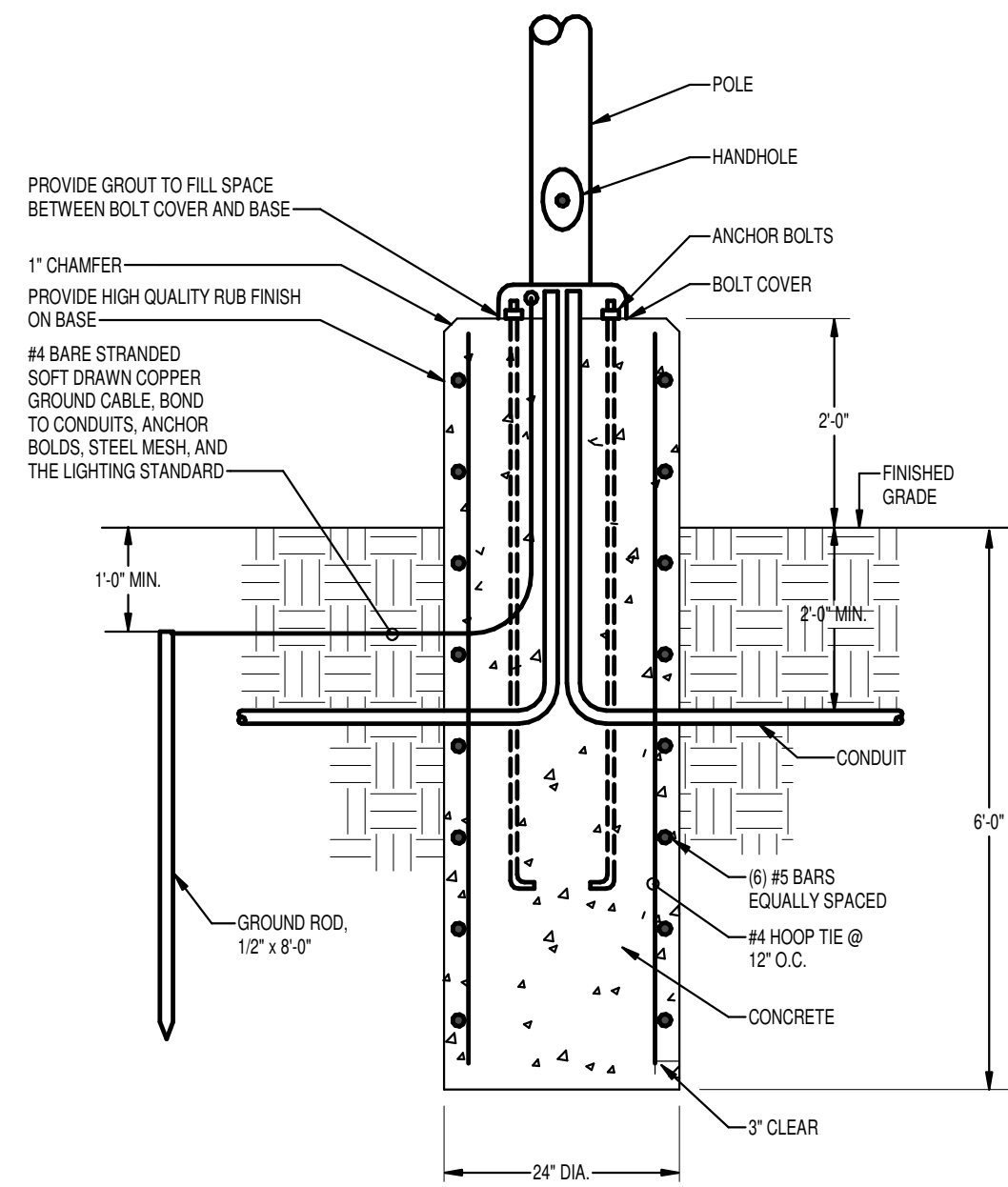




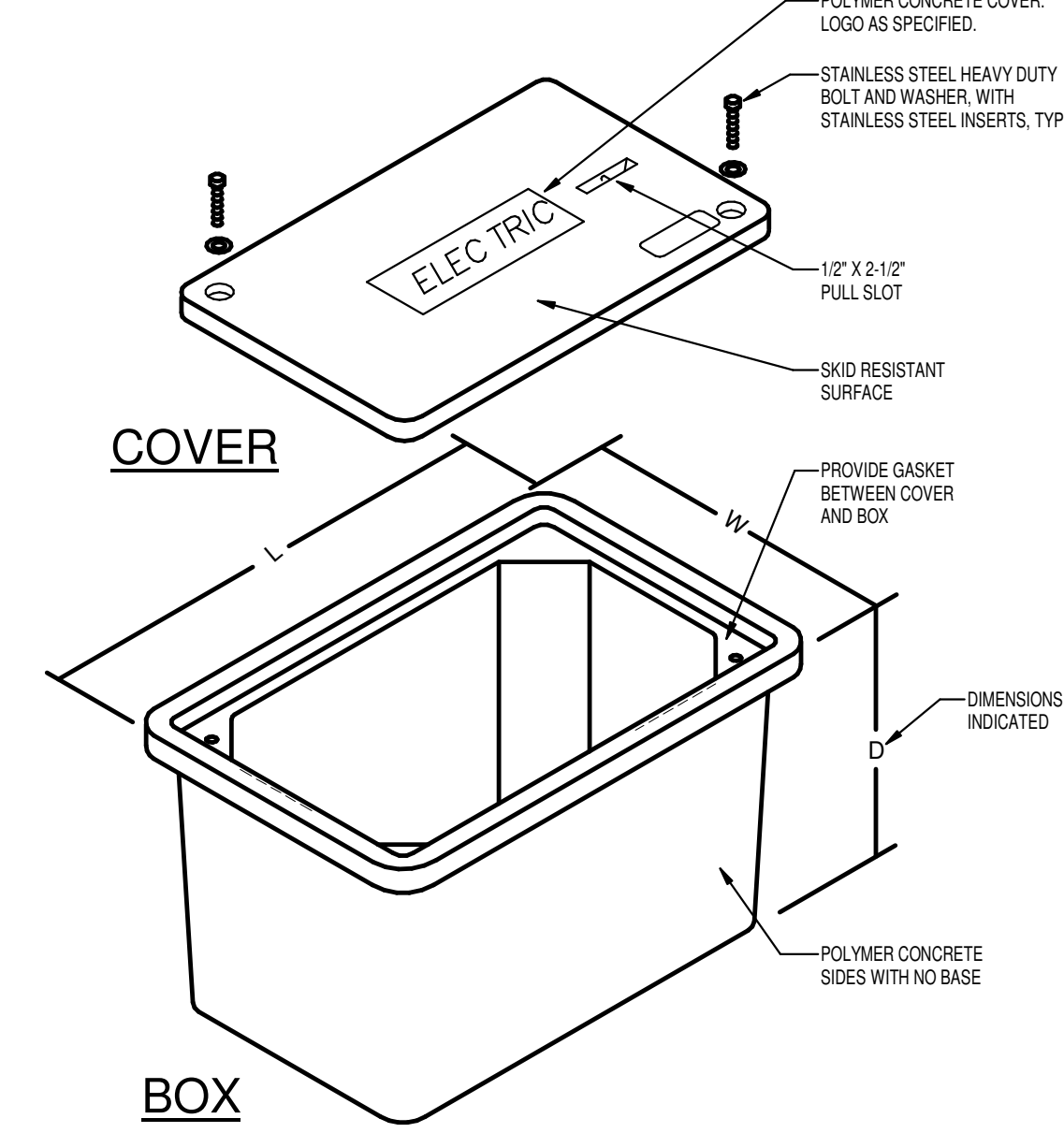
1 UTILITY TRANSFORMER CONCRETE PAD DETAIL
SCALE: NONE



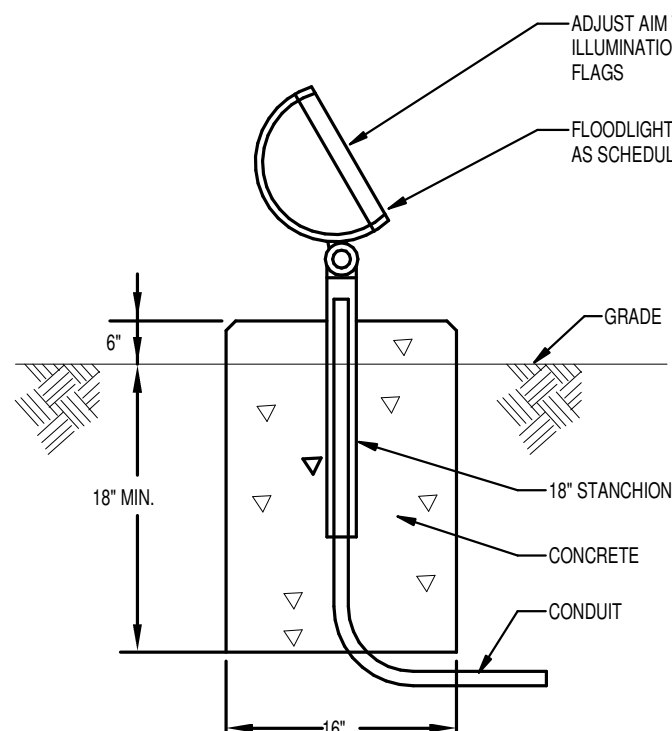
2 UTILITY TRANSFORMER GROUNDING PLAN
SCALE: NONE



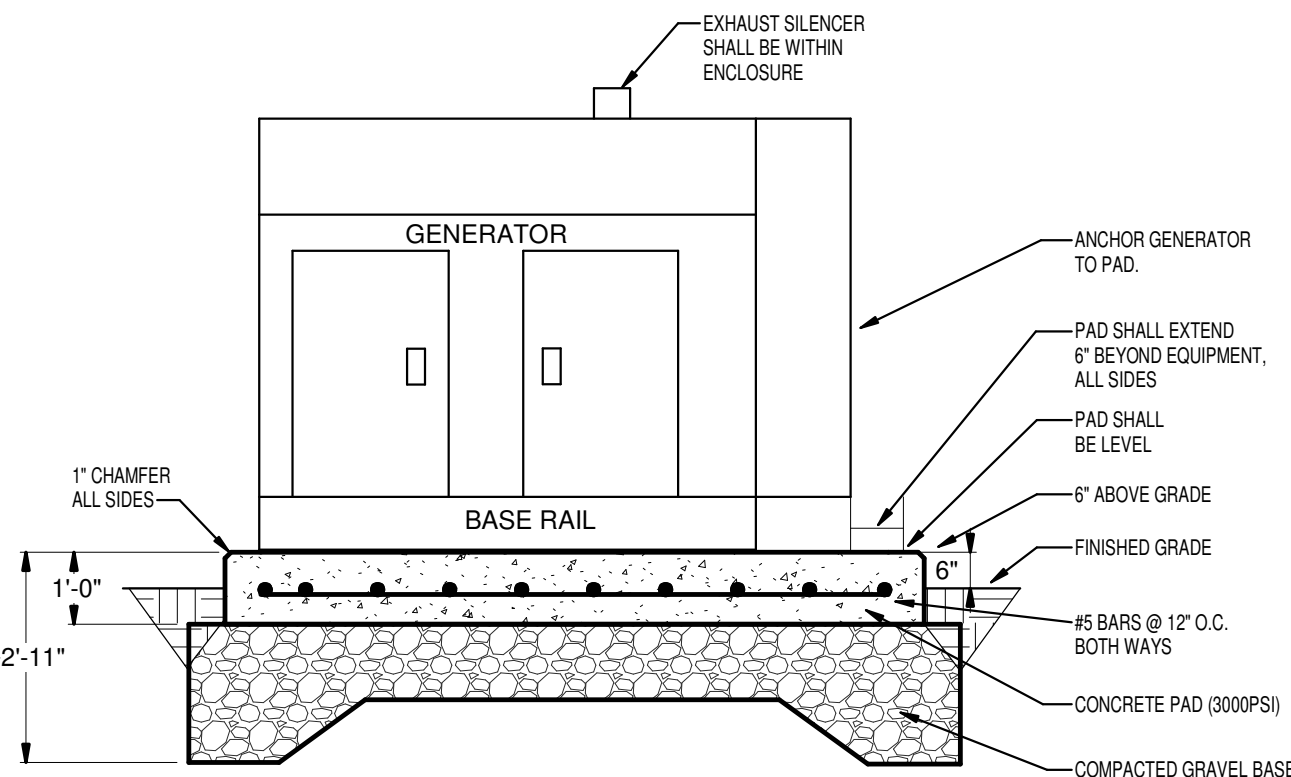
3 SITE LIGHTING POLE BASE DETAIL
SCALE: NONE



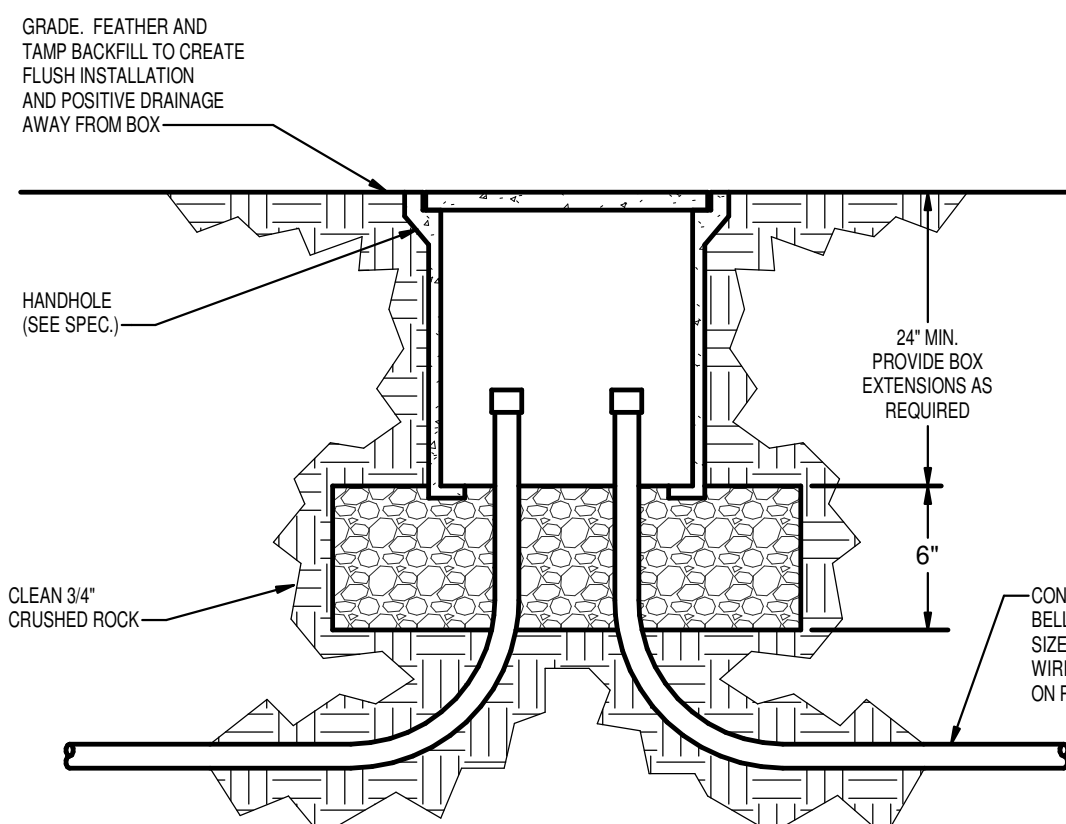
4 ELECTRICAL HANDHOLE DETAIL
SCALE: NONE



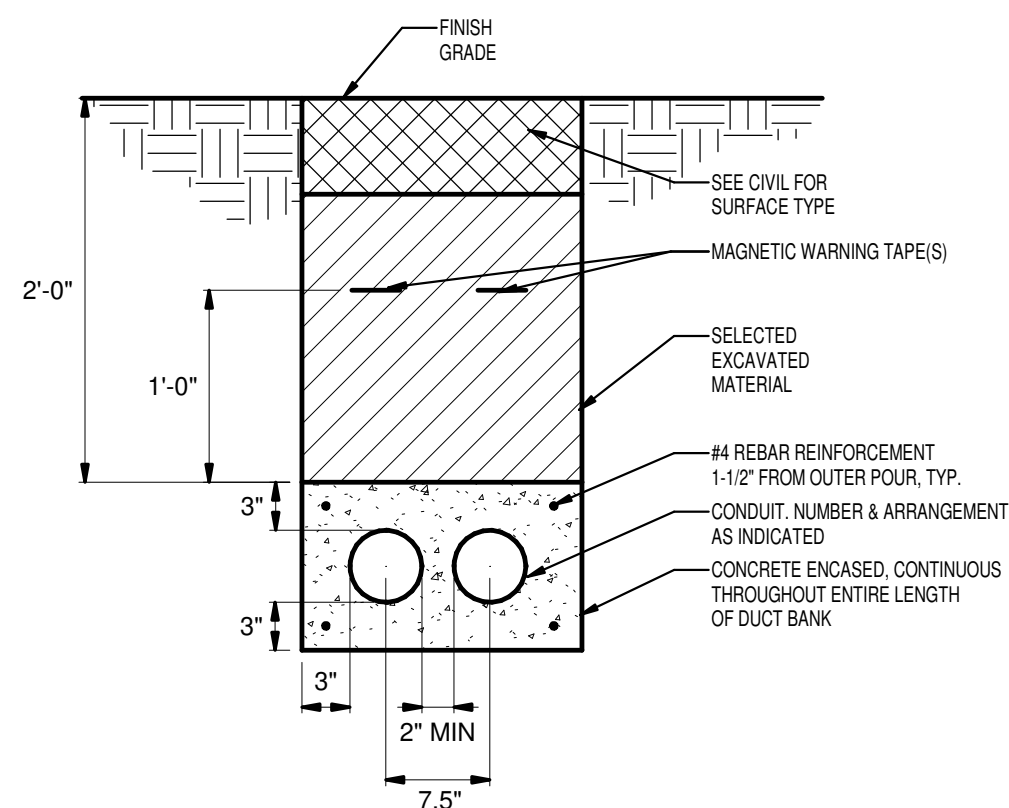
5 FLOODLIGHT FIXTURE FOUNDATION DETAIL
SCALE: NONE



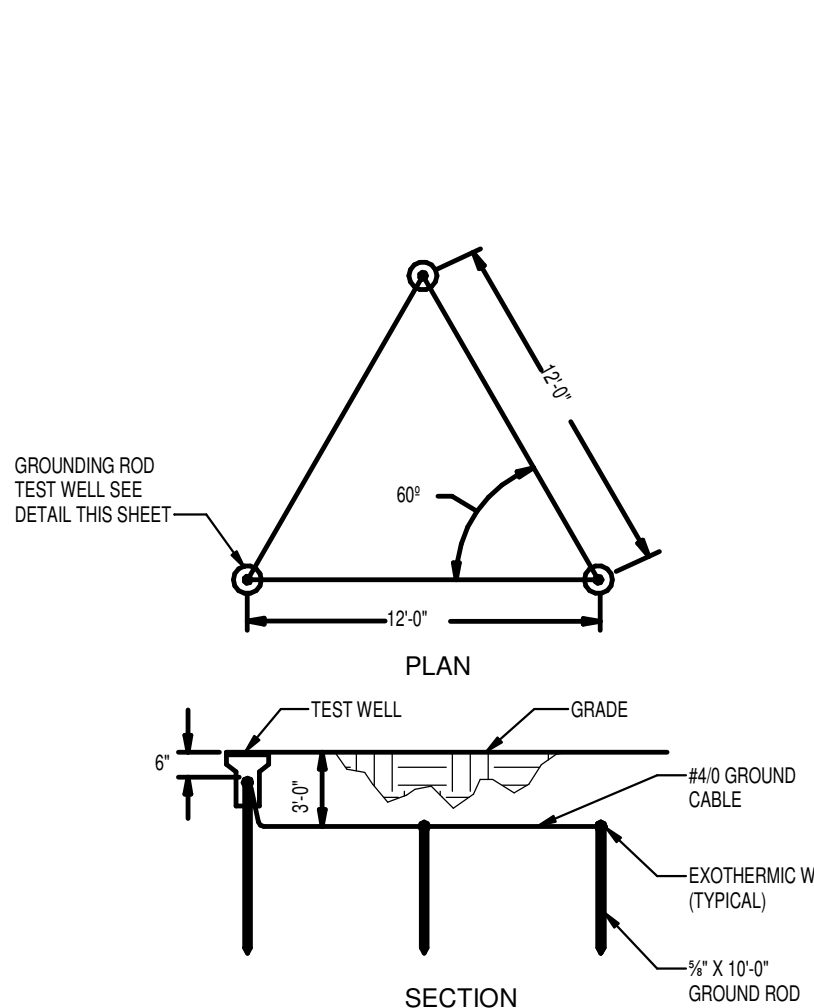
6 GENERATOR CONCRETE PAD DETAIL
SCALE: NONE



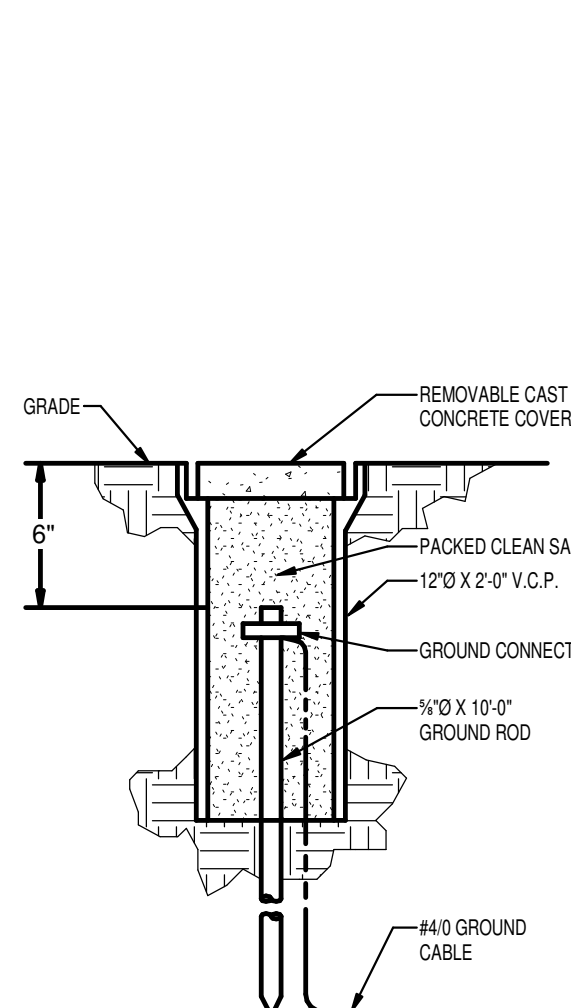
7 HANDHOLE DETAIL INSTALLATION IN TURF AREAS
SCALE: NONE



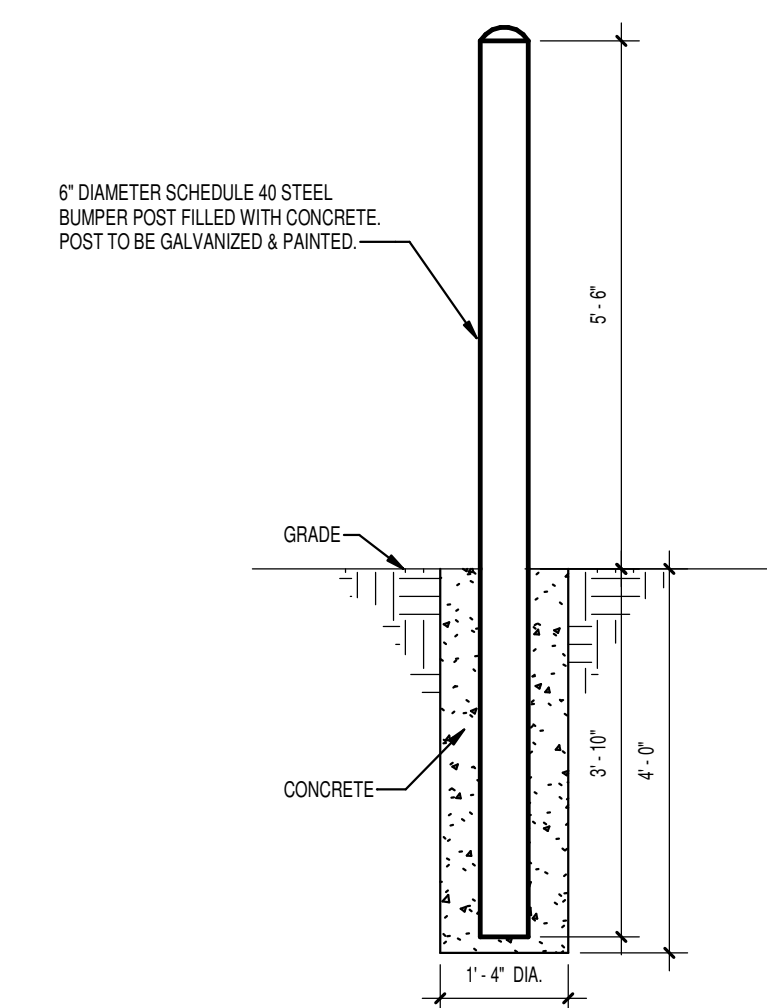
13 SECONDARY ELECTRIC DUCTBANK DETAIL
SCALE: NONE



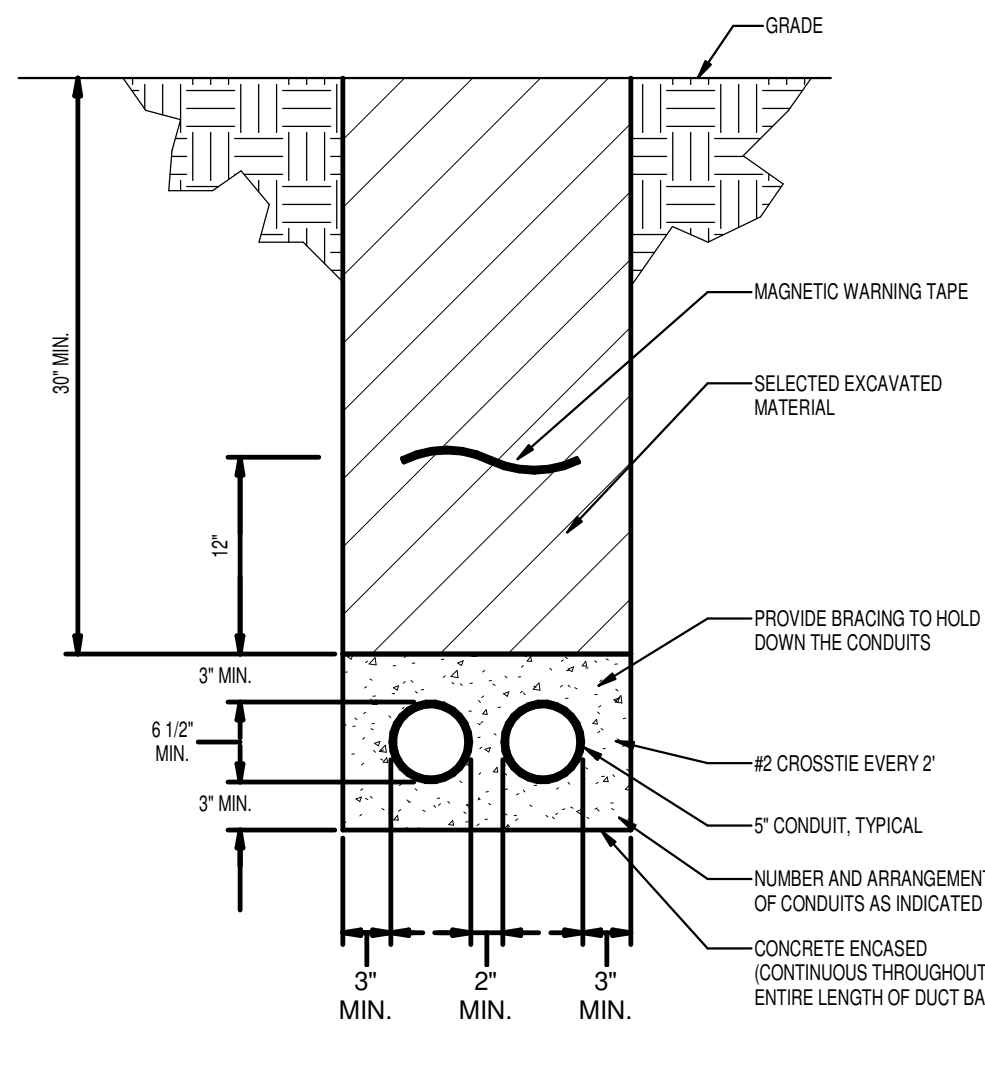
9 GROUNDING GRID DETAIL
SCALE: NONE



10 GROUNDING ROD TEST WELL
SCALE: NONE



11 PROTECTION BOLLARD DETAIL
SCALE: NONE



12 PRIMARY ELECTRICAL DUCTBANK DETAIL
SCALE: NONE

Revisions		
No.	Date	Description
1	12/14/23	RELEASED FOR REVIEW
2	1/16/24	RELEASED FOR BIDDING



GENERAL NOTES:
A. CONTRACTOR TO PROVIDE THE TRANSFORMER CONCRETE PAD, TRANSFORMER GROUNDING, AND THE PRIMARY DUCTBANK IN ACCORDANCE WITH THE UTILITY COMPANY SPECIFICATIONS.
B. ATLANTIC CITY ELECTRIC TO FURNISH THE CT CABINET, METER BASE, AND THE METER FOR THE CONTRACTOR TO INSTALL.

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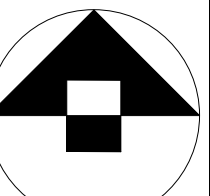
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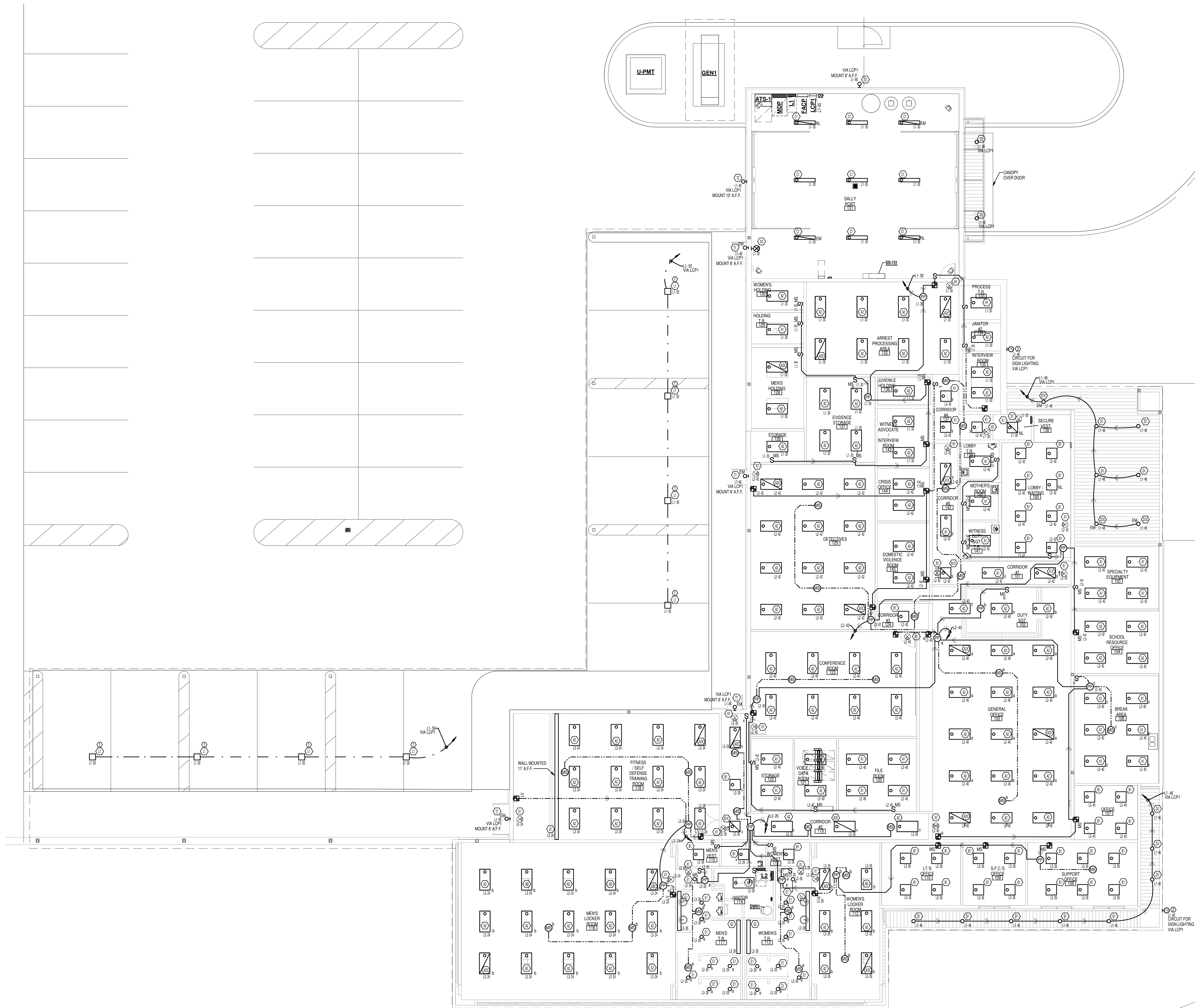
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Drawing
SITE DETAILS



Scale	Job	Sheet
As indicated	21.124	E0.3
Drawn	Date	
KA	01/16/24	



1 1ST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

12' 0" 5' 10' 15'
SCALE: 1/8" = 1'-0"

Revisions		
No.	Date	Description
1	12/14/23	RELEASED FOR REVIEW
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GENERAL NOTES:
A. REFER TO GENERAL ELECTRICAL NOTES ON SHEET E0.1 FOR ADDITIONAL INFORMATION.

KEYNOTES
1. RUN CONDUIT PARALLEL WITH PURLIN UNDER THE CANOPY AT THE TOP. ADD STRUT MATERIAL BETWEEN PURLIN FOR FUTURE SUPPORT AND ATTACH FIXTURE TO STRUT. STRUT SHALL BE GALVANIZED STEEL. ANY CUT EDGES SHALL BE TREATED WITH COLO GALVANIZED SPRAY.
2. VERIFY EXACT LOCATION AND REQUIREMENTS WITH SIGN PROVIDER BEFORE ROUGH IN.

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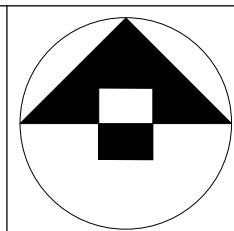
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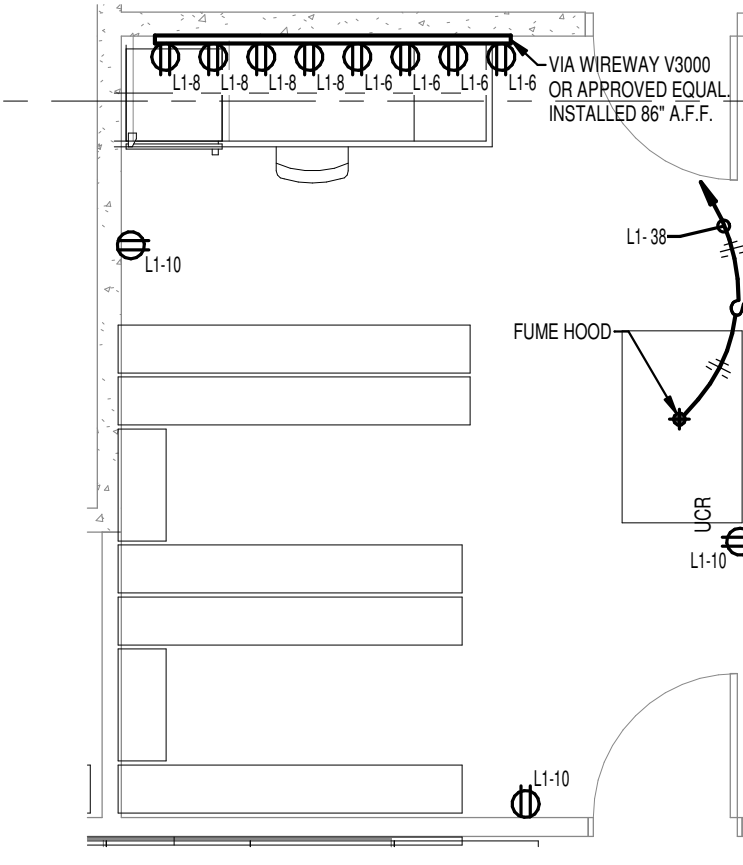
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Drawing
FIRST FLOOR LIGHTING
PLAN



Scale	Job	Sheet
As indicated	21.124	E2.0
Drawn	Date	
KA	01/16/24	



Scale As indicated	Job 21.124	Sheet E3.0
Drawn Author	Date 01/16/24	

PRINTED: 11/1/2024 9:03:22 AM



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

[illegible]

KEYNOTES

1 CONNECT TO UNIT MOUNTED DISCONNECT SWITCH

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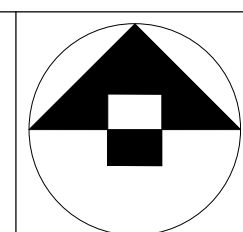


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ROOF ELECTRICAL PLAN



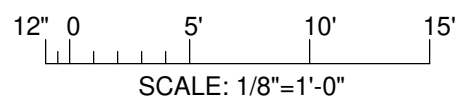
Sheet

E3.1

E3.1



1 1ST FLOOR SYSTEMS PLAN
SCALE: 1/8" = 1'-0"



Revisions		
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2	1/16/24	RELEASED FOR BIDDING



GENERAL NOTES:
A. REFER TO GENERAL ELECTRICAL NOTES ON SHEET E0.1 FOR ADDITIONAL INFORMATION.
B. COORDINATE LOCATIONS OF ALL SECURITY CAMERAS WITH THE OWNER BEFORE ROUGH-IN.

KEYNOTES
1. MOUNT DUCT DETECTOR IN RETURN AIR DUCT.
2. PROVIDE 3/4" HX 1/2" COCKOUT SLEEVES THROUGH WALL ABOVE CEILING FOR PASSAGE OF COMMUNICATION CABLEING.
3. VERIFY EXACT LOCATION AND REQUIREMENTS WITH OWNER BEFORE ROUGH-IN.

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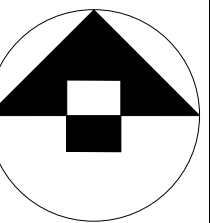
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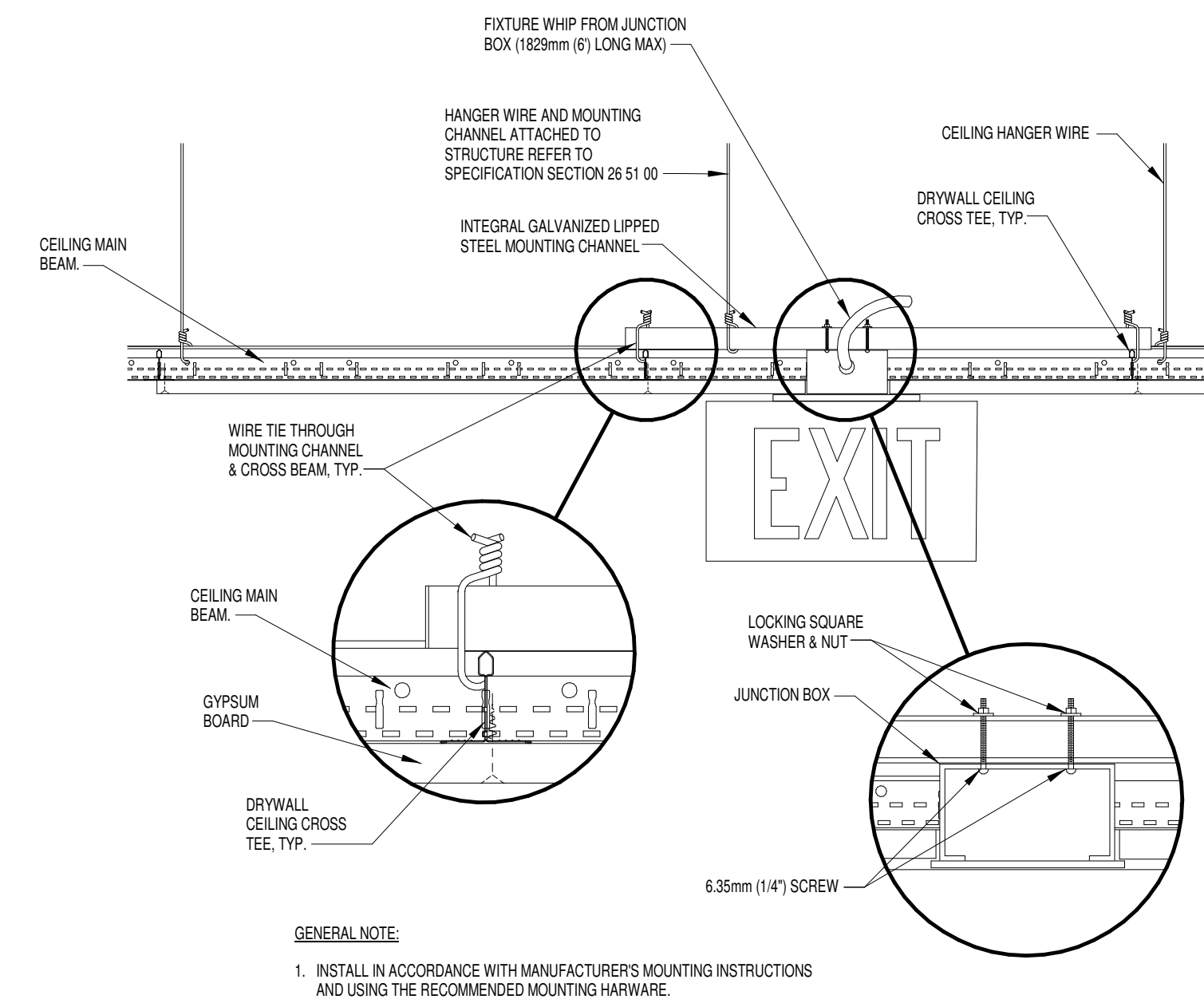
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Drawing
FIRST FLOOR SYSTEMS
PLAN

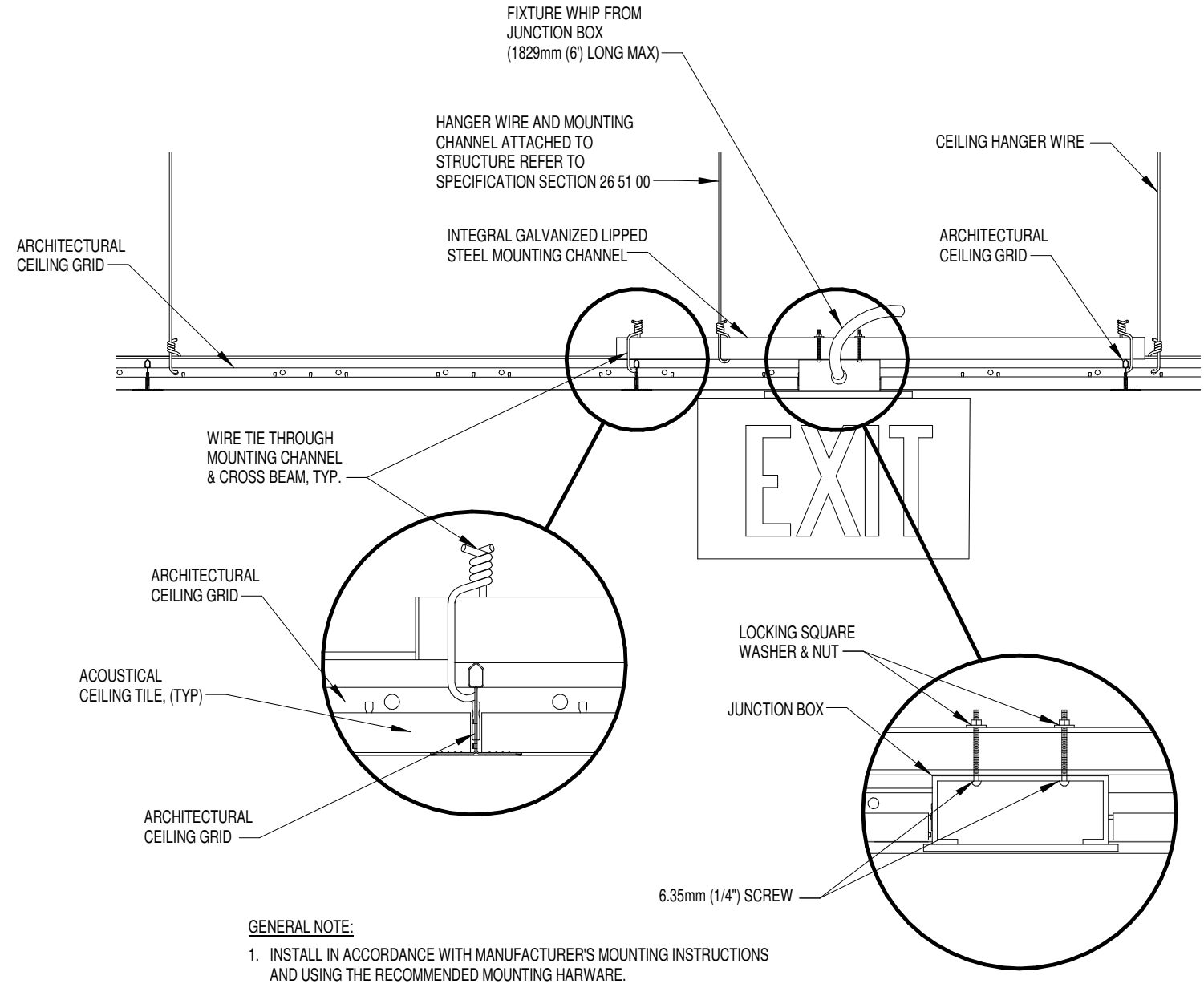


Scale	Job	Sheet E4.0
As indicated	21.124	
Drawn	Date	
KA	01/16/24	

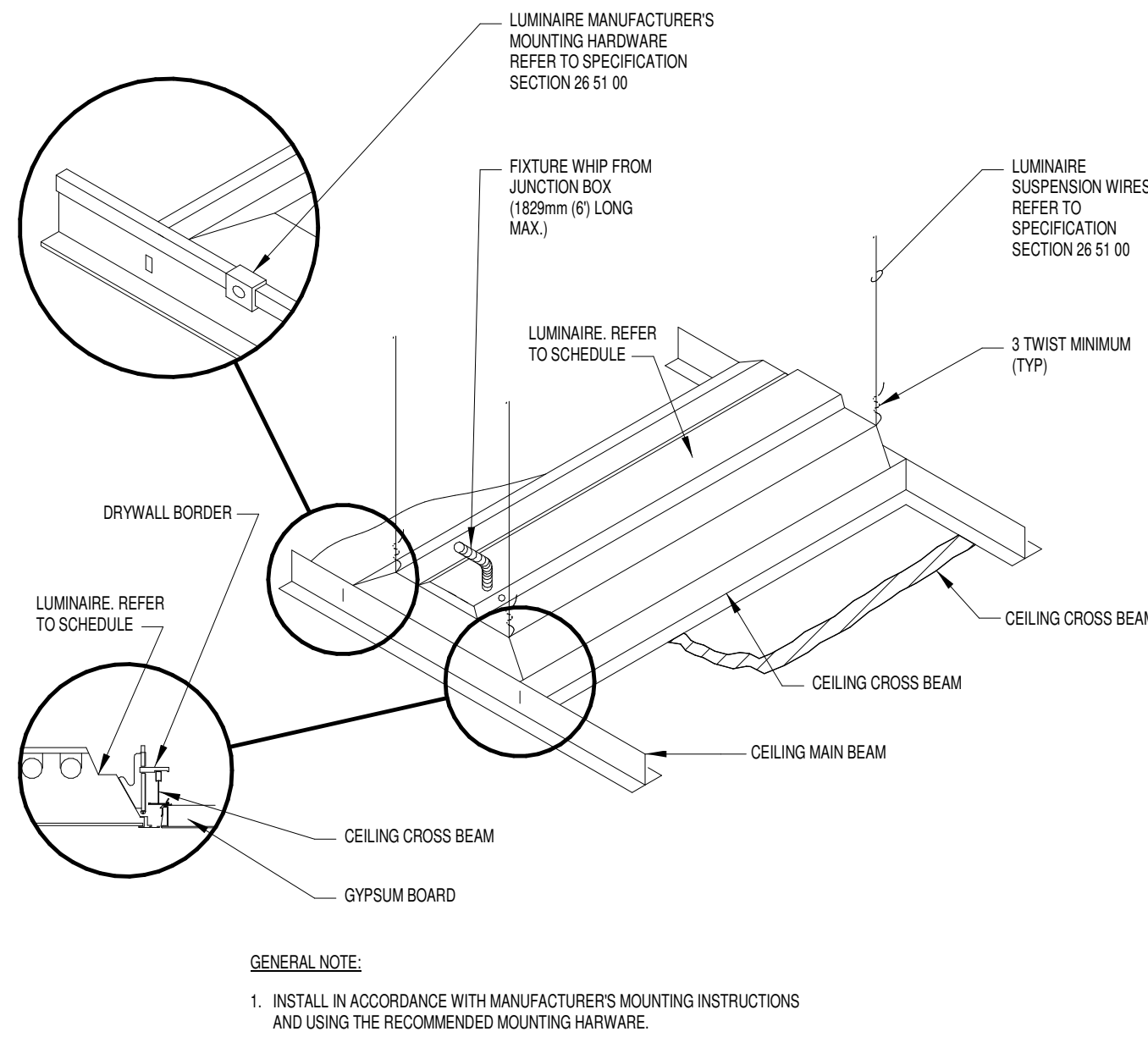
LIGHTING FIXTURE SCHEDULE											
TYPE	DESCRIPTION	MANUFACTURER	SERIES	LAMP				BALLAST / DRIVER	VOLTAGE	MOUNTING	
				TYPE	NO.	LUMENS	WATTS				
A1	2x4 LED EDGE LIT FLAT PANEL WITH NARROW ALUMINUM TRIM/FRAME, SEAMLESS CORNERS, AND WHITE FROSTED SMOOTH ACRYLIC SCRATCH & IMPACT RESISTANT LENS.	LITHONIA	EPANL-2X4-4000LM-80CRI-35K-MIN1-ZT-MVOLT	LED 3500K	--	4000	45	0-10V, DIMMING TO 1%	120/277V	RECESSED	
A1X	2x4 LED EDGE LIT FLAT PANEL WITH NARROW ALUMINUM TRIM/FRAME, SEAMLESS CORNERS, AND WHITE FROSTED SMOOTH ACRYLIC SCRATCH & IMPACT RESISTANT LENS WITH EMERGENCY BATTERY BACK-UP.	LITHONIA	EPANL-2X4-4000LM-80CRI-35K-MIN1-ZT-MVOLT	LED 3500K	--	4000	45	0-10V, DIMMING TO 1%	120/277V	RECESSED	
A2	2x4 LED EDGE LIT FLAT PANEL WITH NARROW ALUMINUM TRIM/FRAME, SEAMLESS CORNERS, AND WHITE FROSTED SMOOTH ACRYLIC SCRATCH & IMPACT RESISTANT LENS.	LITHONIA	EPANL-2X4-4800LM-80CRI-35K-MIN1-ZT-MVOLT	LED 3500K	--	4800	45	0-10V, DIMMING TO 1%	120/277V	RECESSED	
A2X	2x4 LED EDGE LIT FLAT PANEL WITH NARROW ALUMINUM TRIM/FRAME, SEAMLESS CORNERS, AND WHITE FROSTED SMOOTH ACRYLIC SCRATCH & IMPACT RESISTANT LENS WITH EMERGENCY BACK-UP BATTERY.	LITHONIA	EPANL-2X4-4800LM-80CRI-35K-MIN1-ZT-MVOLT	LED 3500K	--	4800	45	0-10V, DIMMING TO 1%	120/277V	RECESSED	
B1	2x2 LED EDGE LIT FLAT PANEL WITH NARROW ALUMINUM TRIM/FRAME, SEAMLESS CORNERS, AND WHITE FROSTED SMOOTH ACRYLIC SCRATCH & IMPACT RESISTANT LENS.	LITHONIA	EPANL-2X2-4800LM-80CRI-35K-MIN1-ZT-MVOLT	LED 3500K	--	4800	45	0-10V, DIMMING TO 1%	120/277V	RECESSED	
B1X	2x2 LED EDGE LIT FLAT PANEL WITH NARROW ALUMINUM TRIM/FRAME, SEAMLESS CORNERS, AND WHITE FROSTED SMOOTH ACRYLIC SCRATCH & IMPACT RESISTANT LENS WITH EMERGENCY BATTERY BACK-UP.	LITHONIA	EPANL-2X2-4800LM-80CRI-35K-MIN1-ZT-MVOLT	LED 3500K	--	4800	45	0-10V, DIMMING TO 1%	120/277V	RECESSED	
C1	4"W x 48"L VAPORTIGHT LED STRIP LIGHT WITH IMPACT RESISTANT HOUSING, CLEAR POLYCARBONATE LENS, AND WIDE DISTRIBUTION, AND FUSE.	LITHONIA	VAP 6000LM PCL WD MVOLT GZ10 35K 80CRI	LED 3500K	--	6000	62	0-10VDC DIMMING TO 1%	120/277V	SURFACE	
D1	6" DIA. NOMINAL LENSED (FLUSH TEXTURED) LED RECESSED DOWNLIGHT WITH CLEAR POLYCARBONATE LENS AND ANTI-MICROBIAL WHITE PAINTED FINISH WITH 1% DIMMING.	DESIGNPLAN	RDD-3040-1-W-25-C-11-0	LED 4000K	--	1520	30	0-10V, DIMMING TO 1%	120/277V	RECESSED	
D1X	6" DIA. NOMINAL LENSED (FLUSH TEXTURED) LED RECESSED DOWNLIGHT WITH CLEAR POLYCARBONATE LENS AND ANTI-MICROBIAL WHITE PAINTED FINISH WITH 1% DIMMING.	DESIGNPLAN	RDD-3040-1-W-25-C-11-0	LED 4000K	--	1520	30	0-10V, DIMMING TO 1%	120/277V	RECESSED	
D2	7" DIA. CAST ALUM. TRIM RING AND GALVANIZED STEEL HOUSING COMPONENTS. VANDAL RESISTANT AND IP65 WET LABEL WITH 1% DIMMING.	DESIGNPLAN	RDD-3040-4-1-W-45-C-0	LED 4000K	--	1520	30	0-10V, DIMMING TO 1%	120/277V	RECESSED	
E1	6" DIA. x 8.5" RECESSED DOWNLIGHT WITH CLEAR POLYCARBONATE LENS AND ANTI-MICROBIAL WHITE PAINTED FINISH WITH 1% DIMMING. SUITABLE FOR WET LOCATIONS	GOTHAM	EV0-35/20-6AR-MD-LSS-EZ1	LED 3500K	--	2000	31.6	0-10V, DIMMING TO 1%	120/277V	RECESSED	
F1	13"W x 13"H x 5"D LED FLOODLIGHT WITH CURVED BACK DESIGN, DIE-CAST ALUMINUM CONSTRUCTION, SEALED LENS, FULL VISOR, VANDAL GUARD, AND ALL REQUIRED MOUNTING HARDWARE.	LITHONIA	DSXF3LED 6 P1 40K MSP MVOLT THK PE FV VG DOBXD	LED 4000K	--	13442	107	HIGH POWER FACTOR	120/277V	STANCHION	
G1	6"W. LED PERIMETER LINEAR LIGHT WITH WHITE HOUSING AND FLUSH SATIN LENS. PROVIDE LENGTH OF FIXTURE TO FILL INDICATED SPACE. PROVIDE ADJUSTIBLE HOUSINGS AS REQUIRED.	LITECONTROL	SAE202-G-7.5"-08-S/SQL-C1-35K-D050-D01-1C-UNV	LED 3500K	--	500LM/FT	--	0-10V, DIMMING TO 1%	120/277V	RECESSED	
G2	6"W. LED PERIMETER LINEAR LIGHT WITH WHITE HOUSING AND FLUSH SATIN LENS. PROVIDE LENGTH OF FIXTURE TO FILL INDICATED SPACE. PROVIDE ADJUSTIBLE HOUSINGS AS REQUIRED.	LITECONTROL	SAE202-G-6.4"-08-S/SQL-C1-35K-D050-D01-1C-UNV	LED 3500K	--	500LM/FT	--	0-10V, DIMMING TO 1%	120/277V	RECESSED	
H1	2x4 VANDAL RESISTANT LIGHTING FIXTURE, WHITE POLYESTER PAINT, AND .25 INCH ACRYLIC FROSTED SMOOTH IMPACT RESISTANT LENS.	LITHONIA	2VTRL-F-L48-5000LM-ICW-AP250FL-MVOLT-GZ1-35 K-80CRI-WH	LED 3500K	--	4321	38.7	0-10V, DIMMING TO 1%	120/277V	RECESSED	
J1	6"W x 288"L INDIRECT/ASYMMETRIC DIRECT LED LINEAR LIGHT WITH CARBON BLACK FINISH AND 1% DIMMING.	LITECONTROL	4L-W-IAD-LPAD-24"-08-SOF-C5-35K-I030-D030-D01-1C-UNV	LED 3500K	--	600LM/FT	--	0-10V, DIMMING TO 1%	120/277V	WALL	
K1	2x2 VANDAL RESISTANT LIGHTING FIXTURE, WHITE POLYESTER PAINT, AND .25 INCH ACRYLIC FROSTED SMOOTH IMPACT RESISTANT LENS.	LITHONIA	2VRTL-F-L24-5000LM-ICW-AP250FL-MVOLT-GZ1-35 K-80CRI-WH	LED 3500K	--	4223	41.8	0-10V, DIMMING TO 1%	120/277V	RECESSED	
L1	SQUARE LED SURFACE MOUNT LIGHTING FIXTURE, FROSTED LENS, CAST ALUMINUM CORROSION RESISTENT HOUSING WITH POLYESTER POWDER COAT FINISH, ONE PIECE GASKET, RATED FOR OUTDOOR INSTALLATION.	LITHONIA	CNY-LED-P1-40K-MVOLT-DOB	LED 3500K	--	4500	35	0-10VDC DIMMING TO 1%	120/277V	SURFACE	
S1	SITE LIGHTING SINGLE HEAD FIXTURE, BY OTHERS. SEE CIVIL DRAWINGS.	--	--	--	--	--	54	--	--	POLE	
T1	ARCHITECTURAL LED WALL SCENE WITH TRAPIZOIDAL ALUMINUM HOUSING, FORWARD THROW LIGHT DISTRIBUTION, POWDER-COAT FINISH, AND WET LOCATION IP66 RATING. PROVIDE WITH BLACK COLOR, AND EMERGENCY BATTERY PACK.	LITHONIA	WST-LED-P1-40K-VF-MVOLT-E7WC-DBLXD	LED 4000K	--	1500	14	0-10V, DIMMING TO 1%	120	WALL	
T2	25" x 9" ARCHITECTURAL LED WALL SCENE WITH TRAPIZOIDAL ALUMINUM HOUSING, TYPE 4 LIGHT DISTRIBUTION, POWDER COAT FINISH, AND WET LOCATION IP66 RATING. PROVIDE WITH BLACK COLOR.	LITHONIA	WDG4-LED-P1-40K-80CRI-R4-MVOLT-DBLXD	LED	--	12000	77	0-10V, DIMMING TO 1%	120	WALL	
X1	LED SINGLE FACED CEILING MOUNTED EXIT LIGHT WITH WHITE ALUMINUM HOUSING WHITE FACE AND RED STENCIL LETTERS WITH BATTERY BACK-UP.	LITHONIA	LESW1R EL N SD	LED	--	--	1.5	--	120/277V	UNIVERSAL	
X2	LED DOUBLE FACED CEILING MOUNTED EXIT LIGHT WITH WHITE ALUMINUM HOUSING WHITE FACE AND RED STENCIL LETTERS WITH BATTERY BACK-UP.	LITHONIA	LESW2R EL N SD	LED	--	--	1.5	--	120/277V	UNIVERSAL	
X3	LED SINGLE FACED WALL MOUNTED EXIT LIGHT WITH WHITE ALUMINUM HOUSING WHITE FACE AND RED STENCIL LETTERS WITH BATTERY BACK-UP.	LITHONIA	LESW1R EL N SD	LED	--	--	0.8	--	120/277V	WALL	



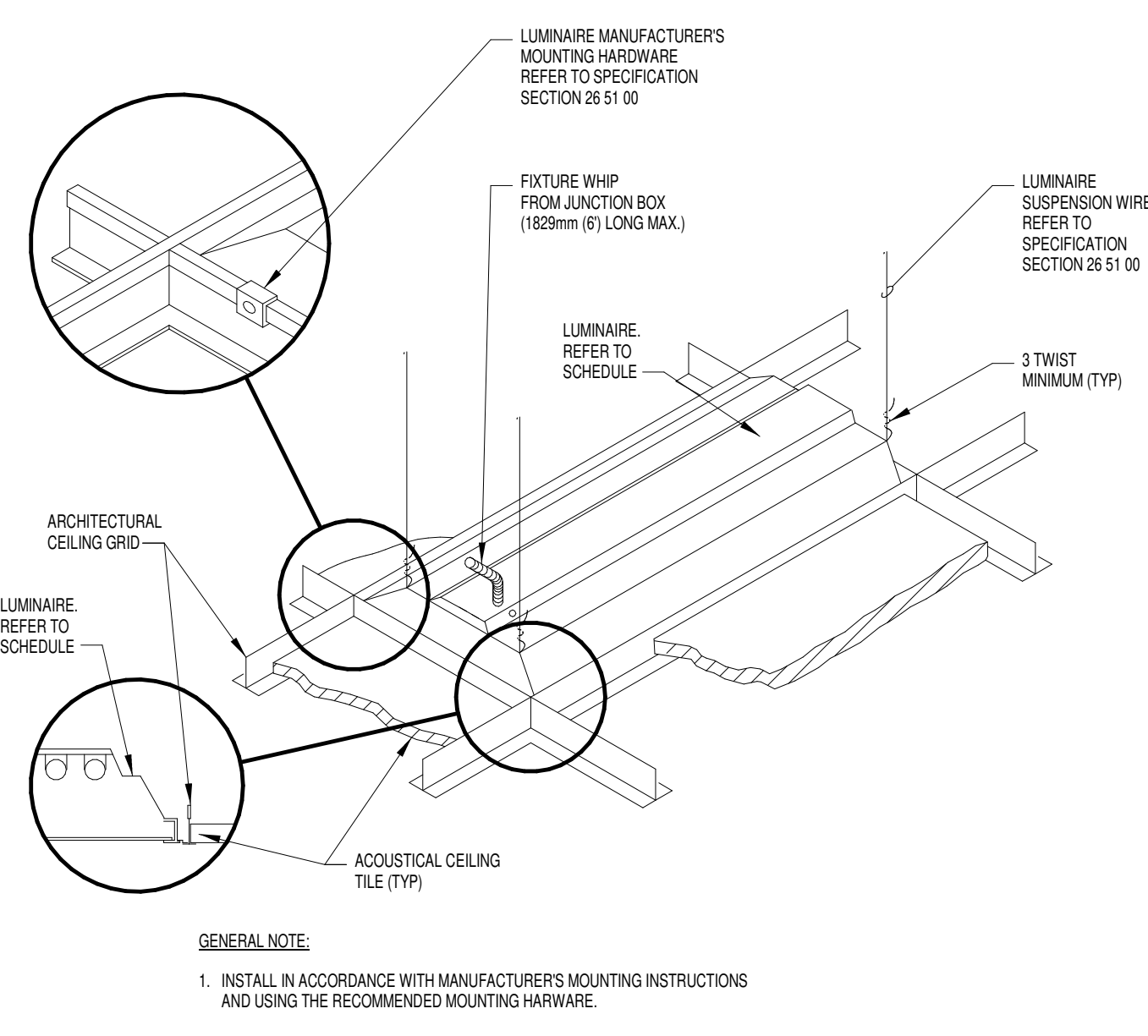
1 EXIT SIGN MOUNTING - GYPBOARD CEILING DETAIL
SCALE: NONE



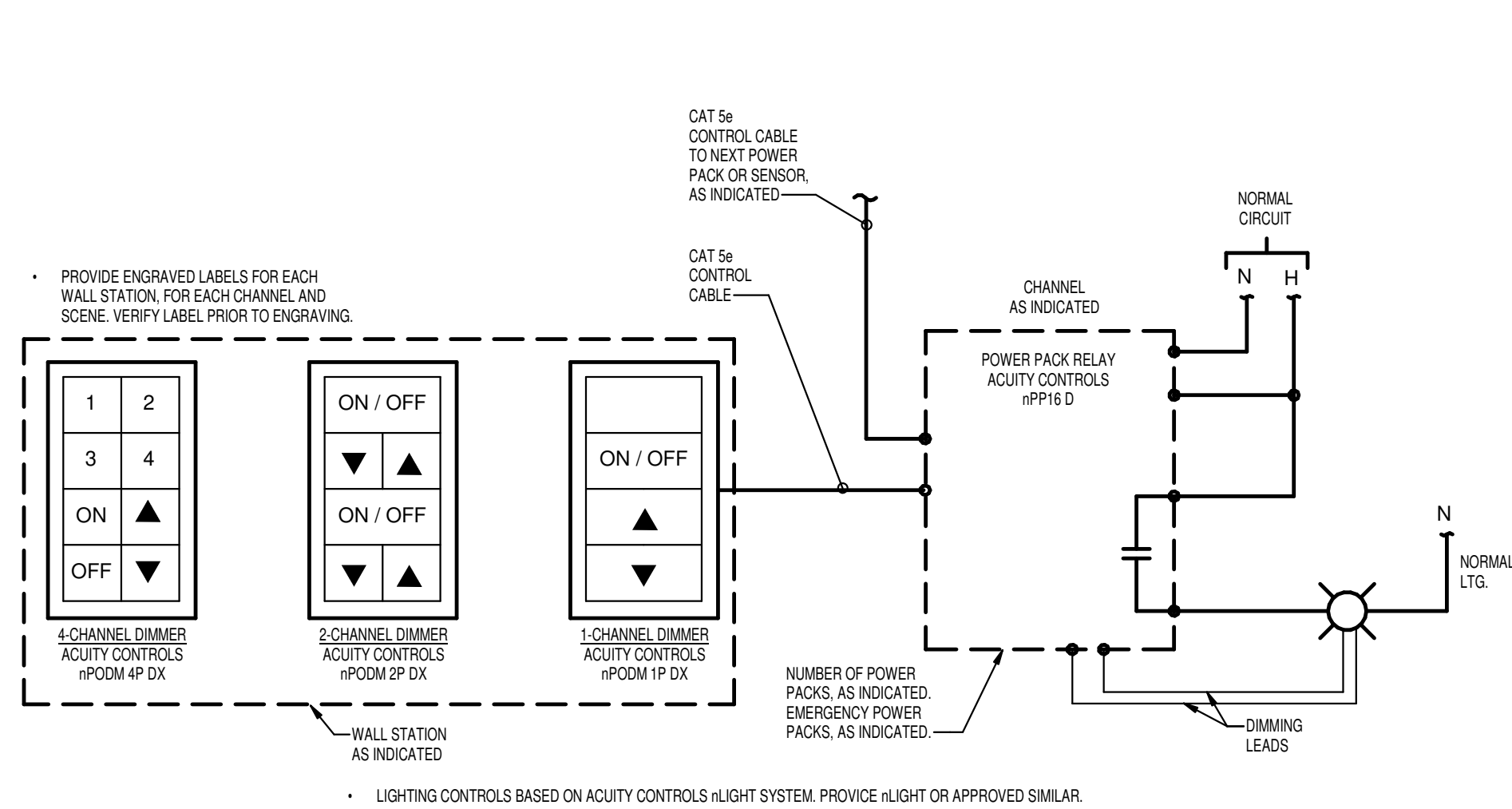
2 EXIT SIGN MOUNTING - LAY-IN CEILING DETAIL
SCALE: NONE



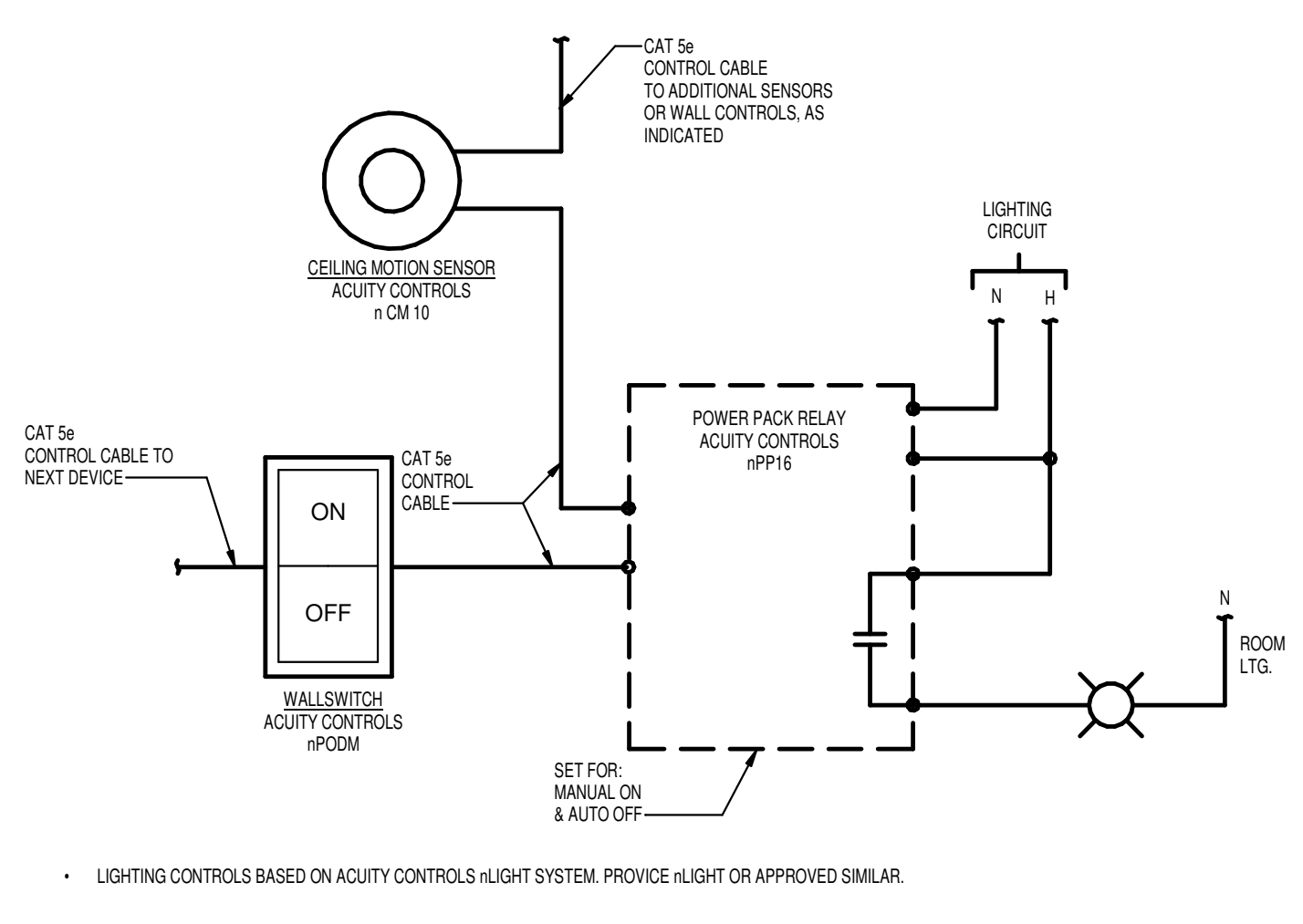
3 LUMINAIRE MOUNTING - GYPBOARD CEILING DETAIL
SCALE: NONE



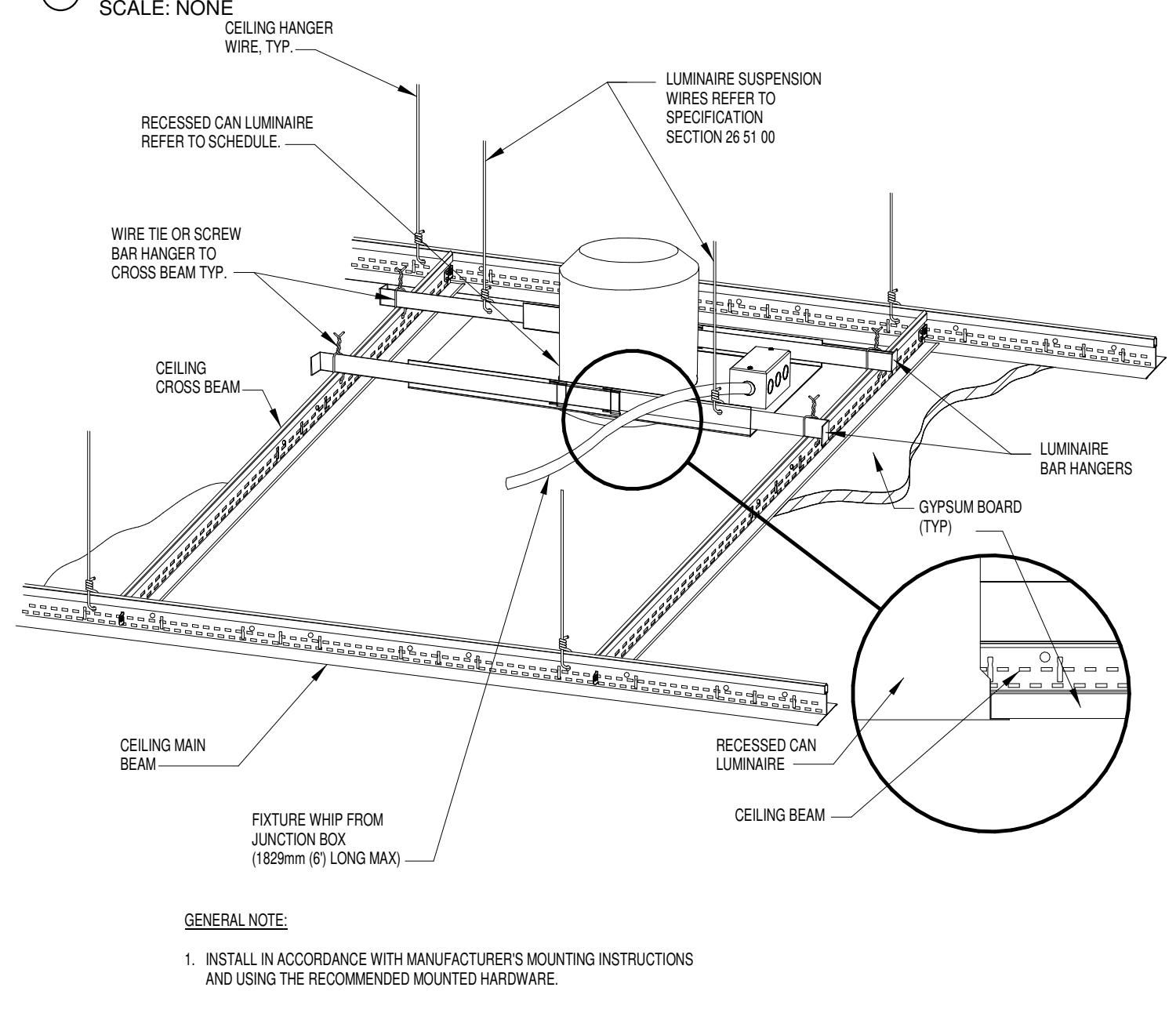
4 LUMINAIRE MOUNTING - LAY-IN CEILING DETAIL
SCALE: NONE



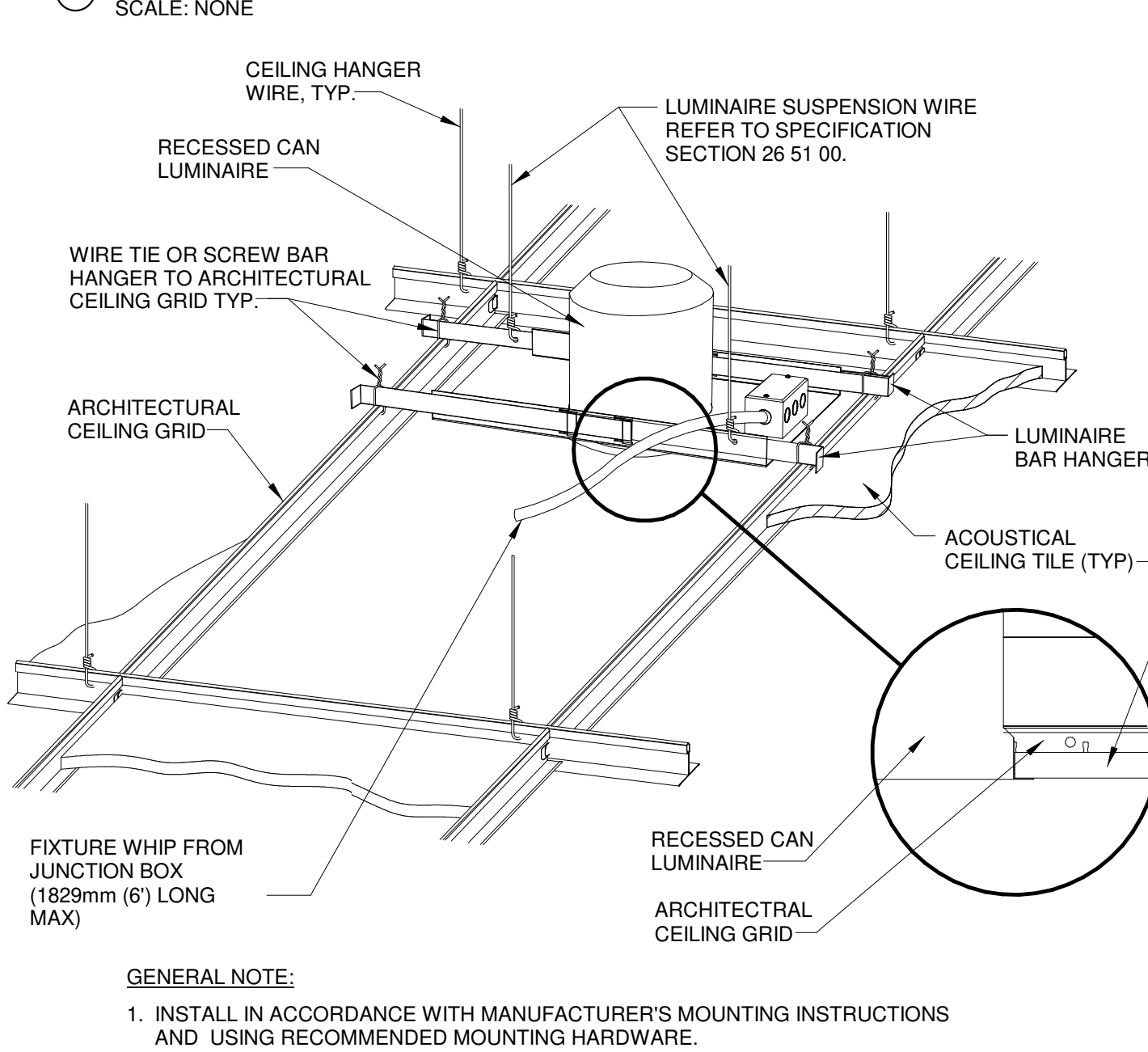
5 LOW VOLTAGE DIMMING & POWER PACKS
SCALE: NONE



6 LOW VOLTAGE SWITCH & MOTION SENSOR
SCALE: NONE



7 DOWNLIGHT MOUNTING - GYPBOARD CEILING DETAIL
SCALE: NONE



8 DOWNLIGHT MOUNTING - LAY-IN CEILING DETAIL
SCALE: NONE

Revisions		
No.	Date	Description
1	12/14/23	RELEASED FOR REVIEW
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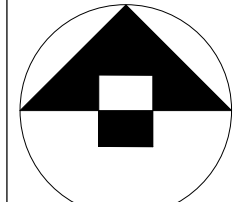
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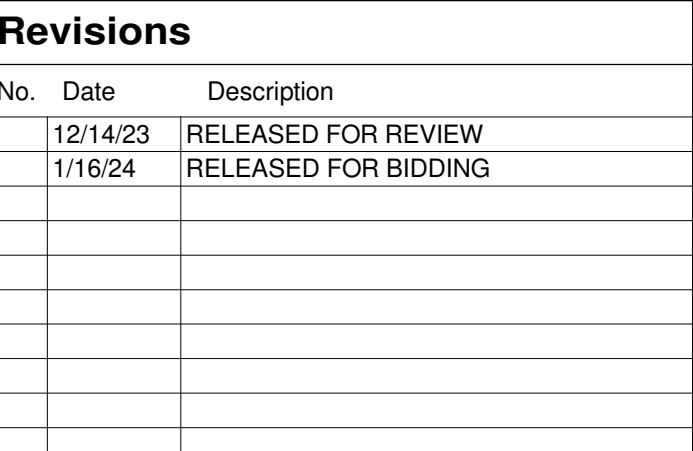
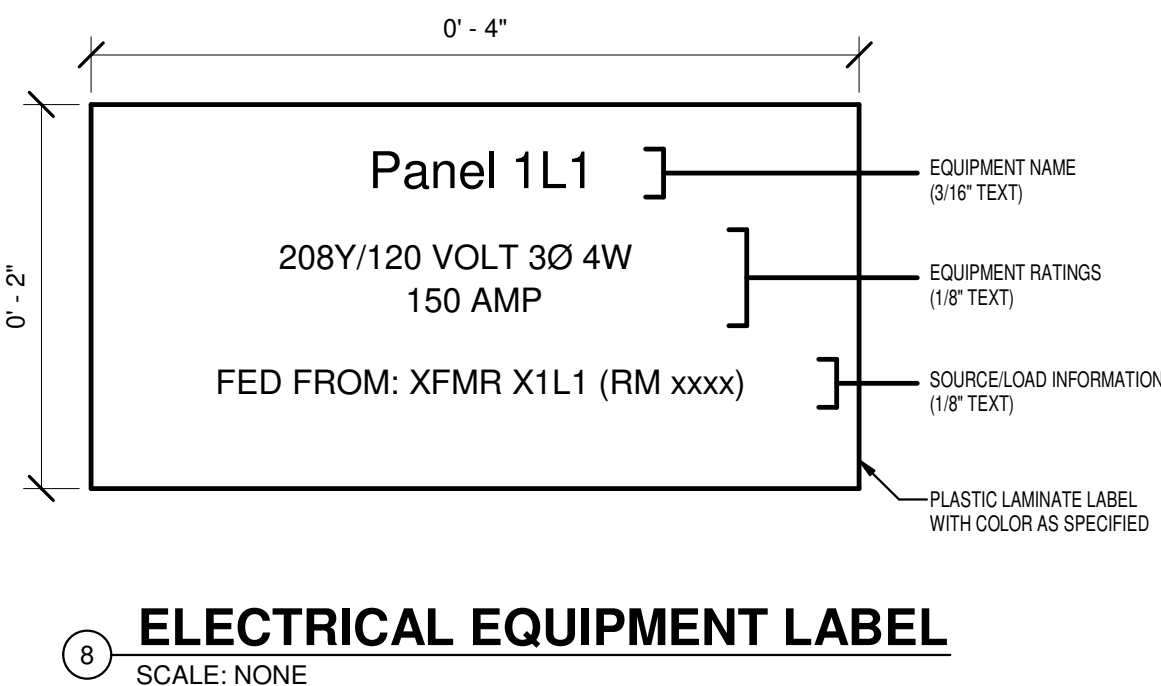
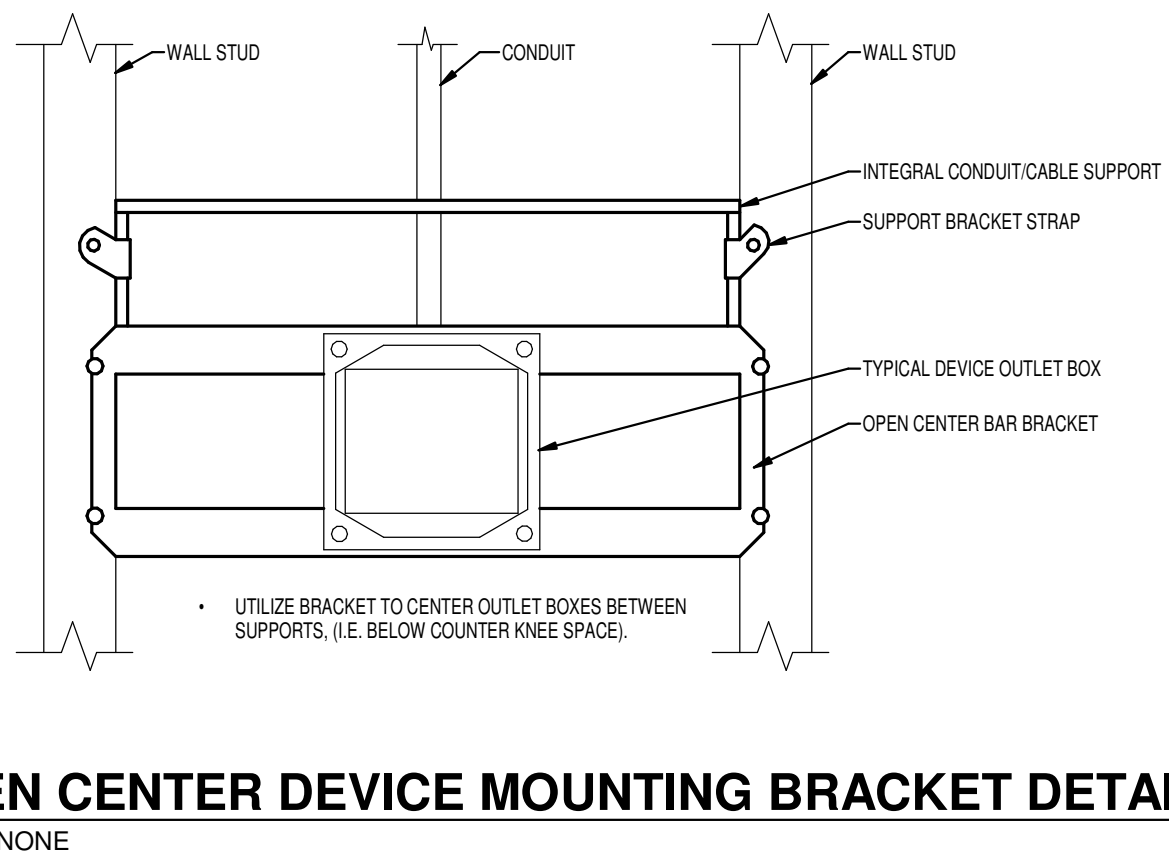
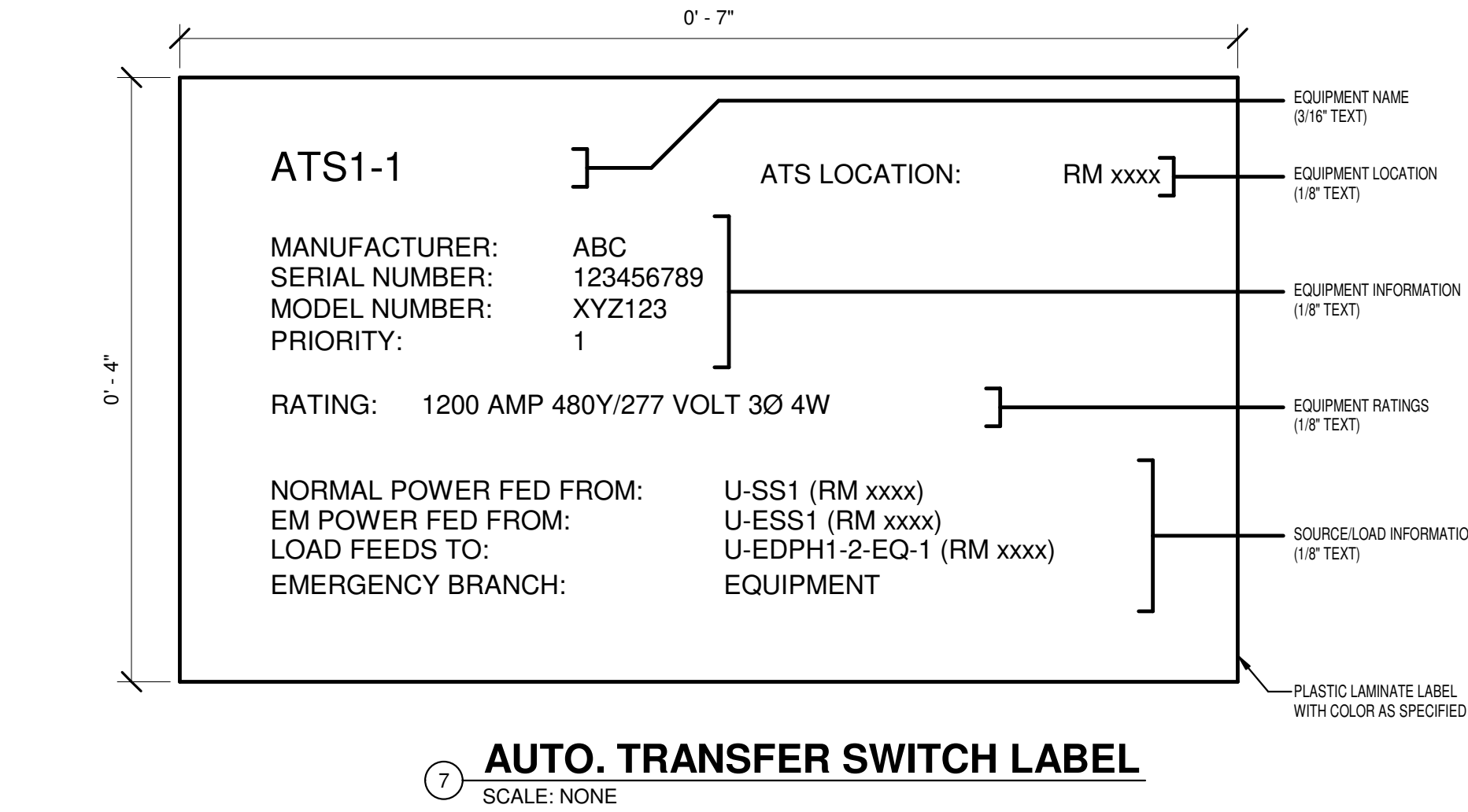
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Drawing
LIGHTING SCHEDULE AND
DETAILS



Scale	Job	Sheet
As indicated	21.124	E6.0
Drawn	Date	
KA	01/16/24	

MOTOR CONTROL SCHEDULE													
MOTOR CONTROLLER LEGEND													
TYPE		DESCRIPTION											
VFD		VARIABLE FREQUENCY DRIVE FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.											
MMC		COMBINATION MAGNETIC MOTOR CONTROLLER AND FUSIBLE SWITCH TO SUIT MOTOR.											
MAN		MANUAL MOTOR CONTROLLER.											
MOTOR TAG	MOTOR USE	MOTOR LOCATION	MOTOR RATING			MOTOR CONTROLLER					AUXILIARY CONTROL DEVICES		CONTROL WIRING DIAGRAM
			HP (KW)	SYSTEM VOLTAGE	PHASE	TYPE	LOCATION	STR SIZE	SW SIZE	FUSE	DEVICE	LOCATION	
CP1	CIRCULATION PUMP	JANITOR CLOSET 114	--	120 V	1	MAN	JANITORS CLOSET 114	--	--	--	PILOT LIGHT	STR COVER	#1
EF-1	EXHAUST FAN	ROOF	1/4	120 V	1	MMC	SALLY PORT 131	0	30A	40A	H.O.A. SWITCH AND PILOT LIGHT	STR COVER	#2
EF-2	EXHAUST FAN	ROOF	1/4	120 V	1	MAN	PROCESSING AREA 132	--	--	--	PILOT LIGHT	STR COVER	#1
EF-3	EXHAUST FAN	ROOF	1/4	120 V	1	MMC	JANITORS CLOSET 114	0	30A	40A	H.O.A. SWITCH AND PILOT LIGHT	STR COVER	#2



A. REFER TO GENERAL ELECTRICAL NOTES ON SHEET E0.1 FOR ADDITIONAL INFORMATION.

1. PROVIDE GENERATOR START/STOP WIRING. PROVIDE #10, 3/4" CONDUIT. PROVIDE TERMINATION FOR UNUSED CONDUCTORS AND MARK AS SPARE.
2. PROVIDE INTERCONNECTION TO LOAD BANK CONTROLS. THE LOAD BANK SHALL TRIP OFF-LINE WHEN ATS DEMANDS POWER FROM GENERATOR.

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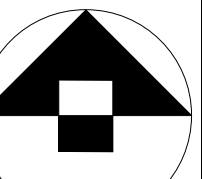
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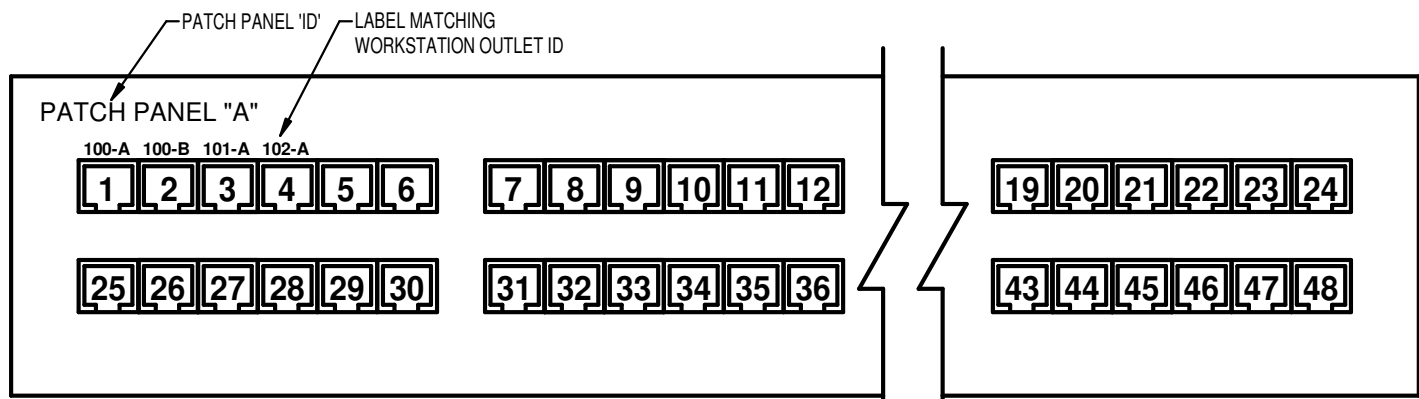
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ONE-LINE DIAGRAM, MOTOR SCHEDULE AND DETAILS

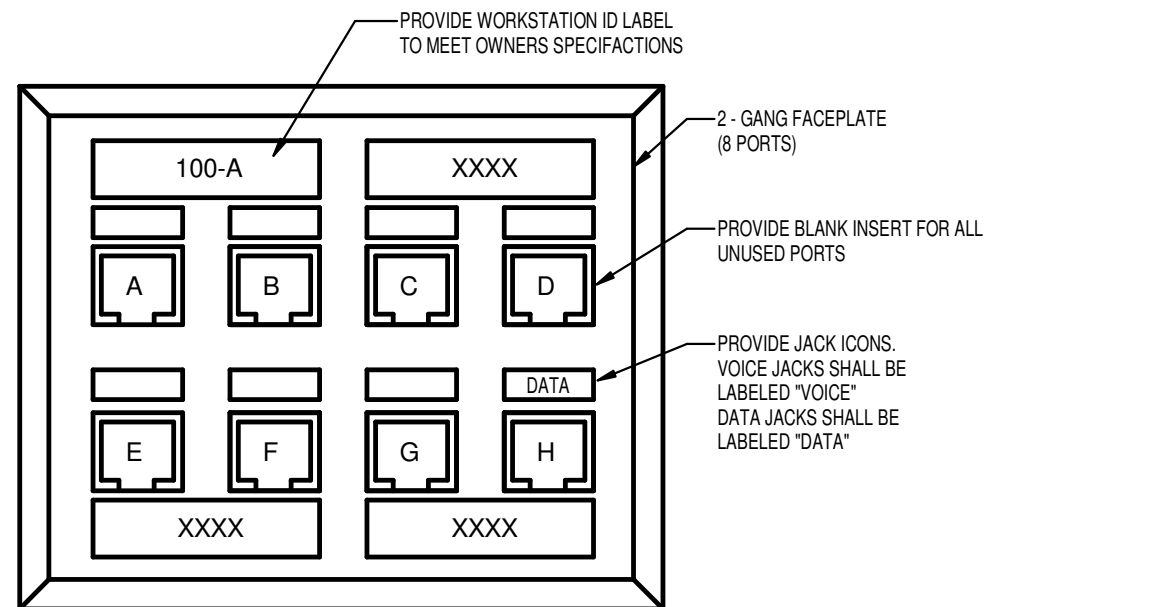


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Drawn KA	Date 01/16/24	



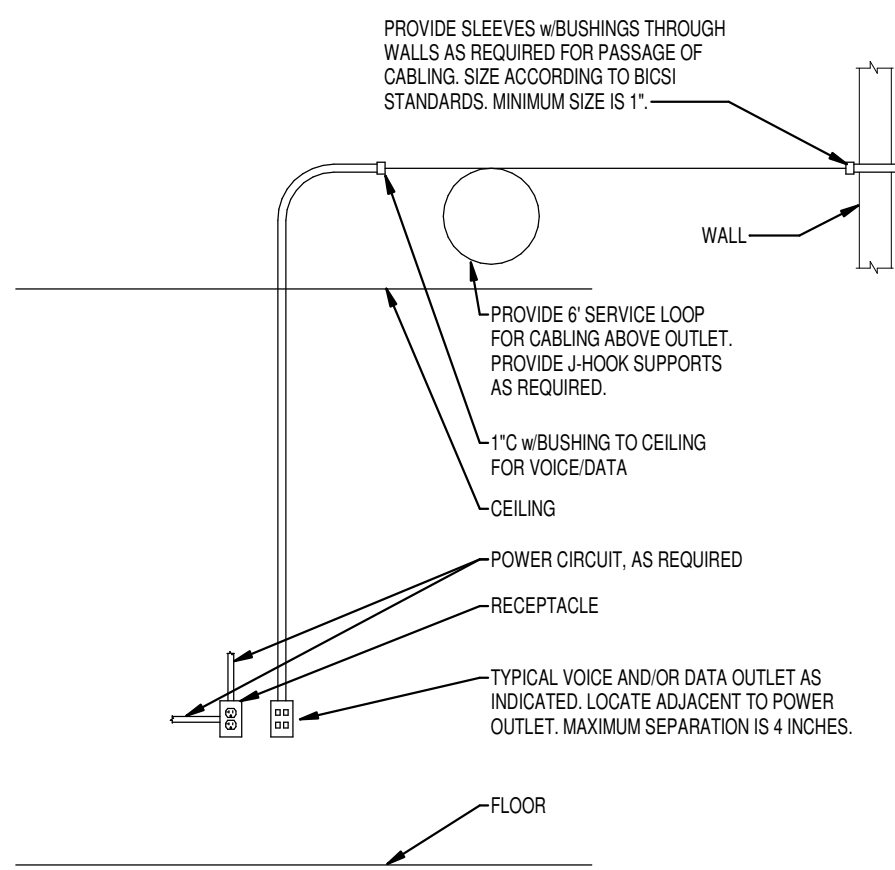
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL LABELING REQUIREMENTS FOR STRUCTURED VOICE & DATA CABLING SYSTEMS
- COORDINATE LABELING WITH OWNER'S REQUIREMENTS

1 **TYPICAL PATCH PANEL LABELING**
SCALE: NONE

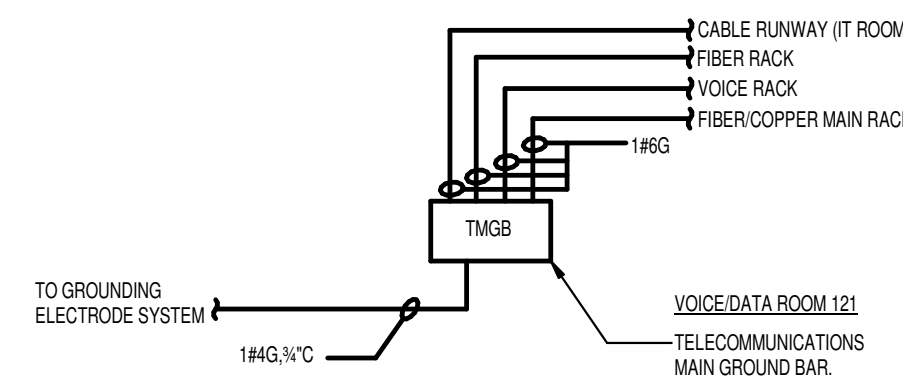


- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL LABELING REQUIREMENTS FOR STRUCTURED VOICE & DATA CABLING SYSTEMS
- COORDINATE LABELING WITH OWNER'S REQUIREMENTS

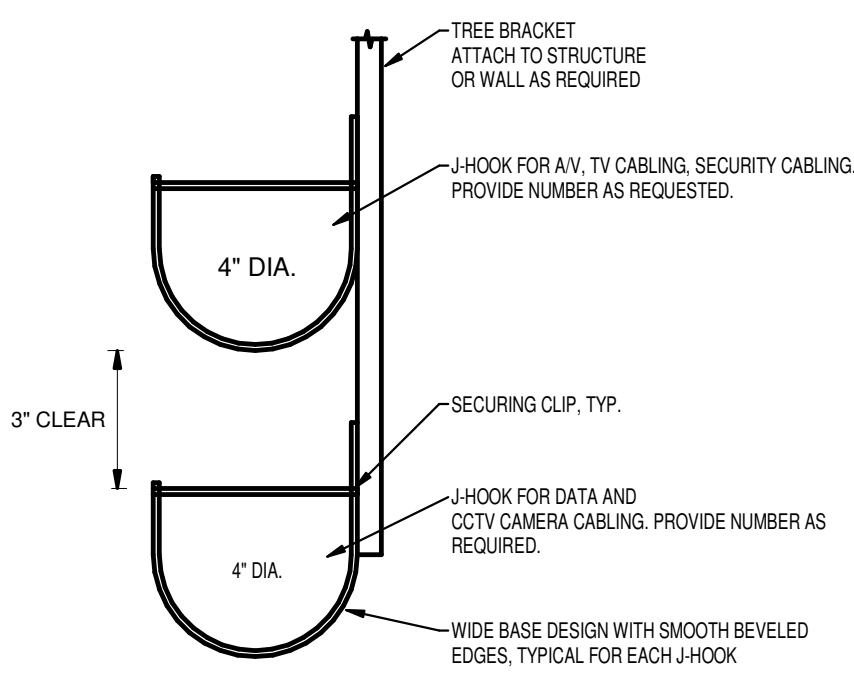
2 **TYPICAL COMMUNICATION WALL OUTLET LABELING DETAIL**
SCALE: NONE



3 **TYPICAL VOICE/DATA OUTLET DETAIL**
SCALE: NONE

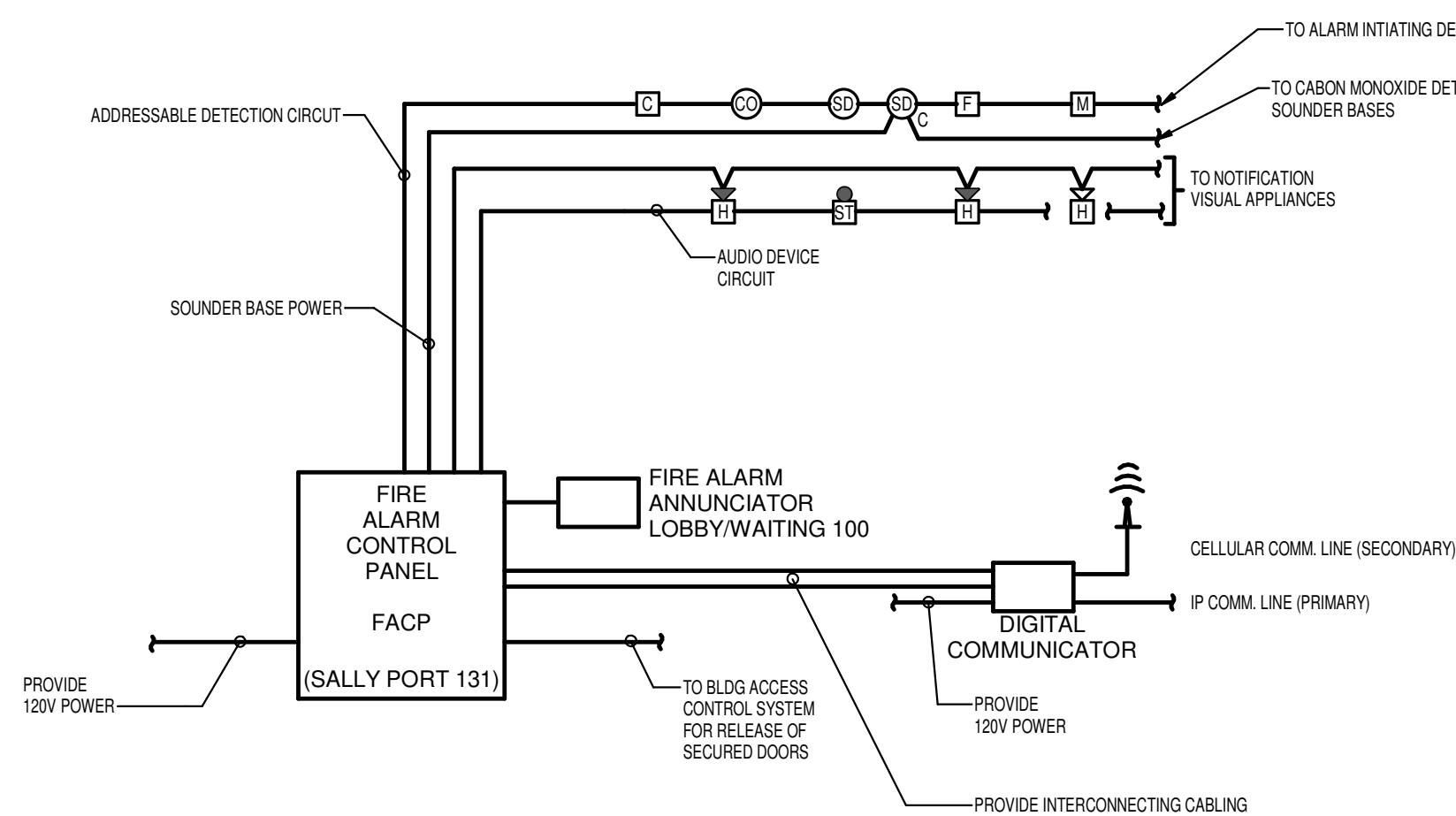


4 **TELECOM GROUNDING DIAGRAM**
SCALE: NONE

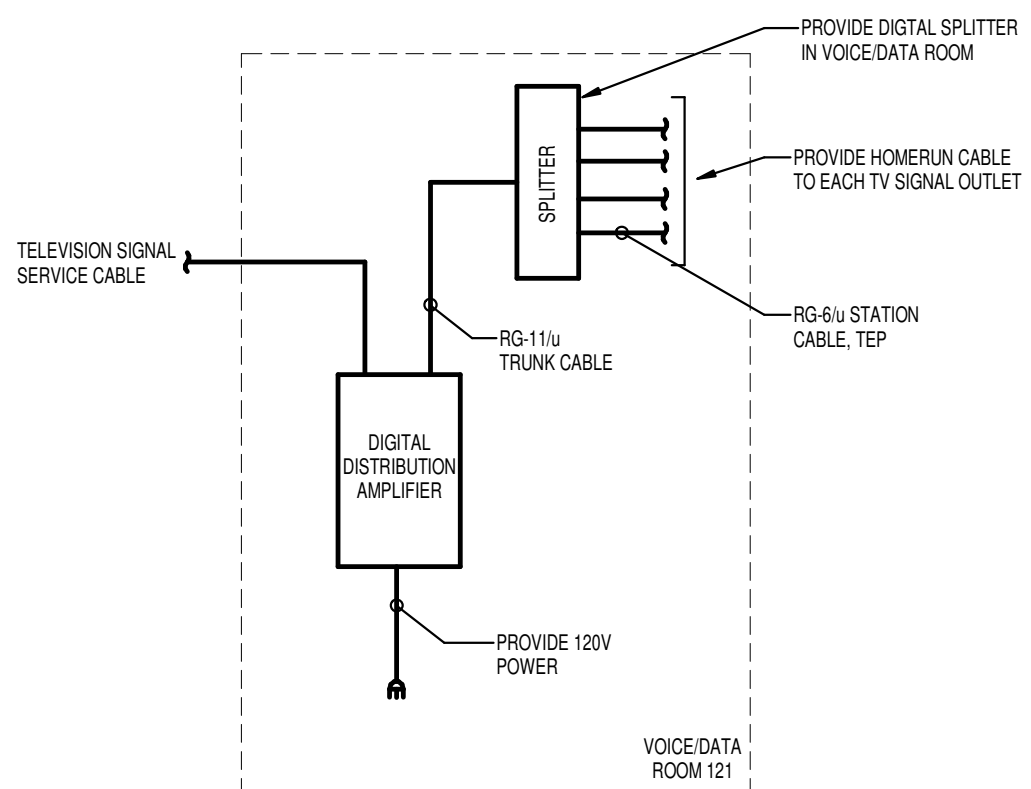


- J-HOOK SYSTEM SHALL BE CADDY CAT W/ OR APPROVED EQUAL
- WHERE J-HOOK ONLY ENCOUNTERS AN OBSTACLE (I.E. DUCTWORK) PROVIDE A J-HOOK ON EITHER SIDE AND ROUTE CABLING OVER THE OBSTACLE
- J-HOOK SYSTEM MAY BE HORIZONTAL OR VERTICAL
- MINIMUM HEIGHT OF CABLING ABOVE CEILING CAVITY IS SIX INCHES
- PROVIDE A MINIMUM OF 12 INCHES OF SEPARATION BETWEEN CABLING AND ELECTRICAL JUNCTION BOXES, LIGHT FIXTURES, AND HVAC EQUIPMENT

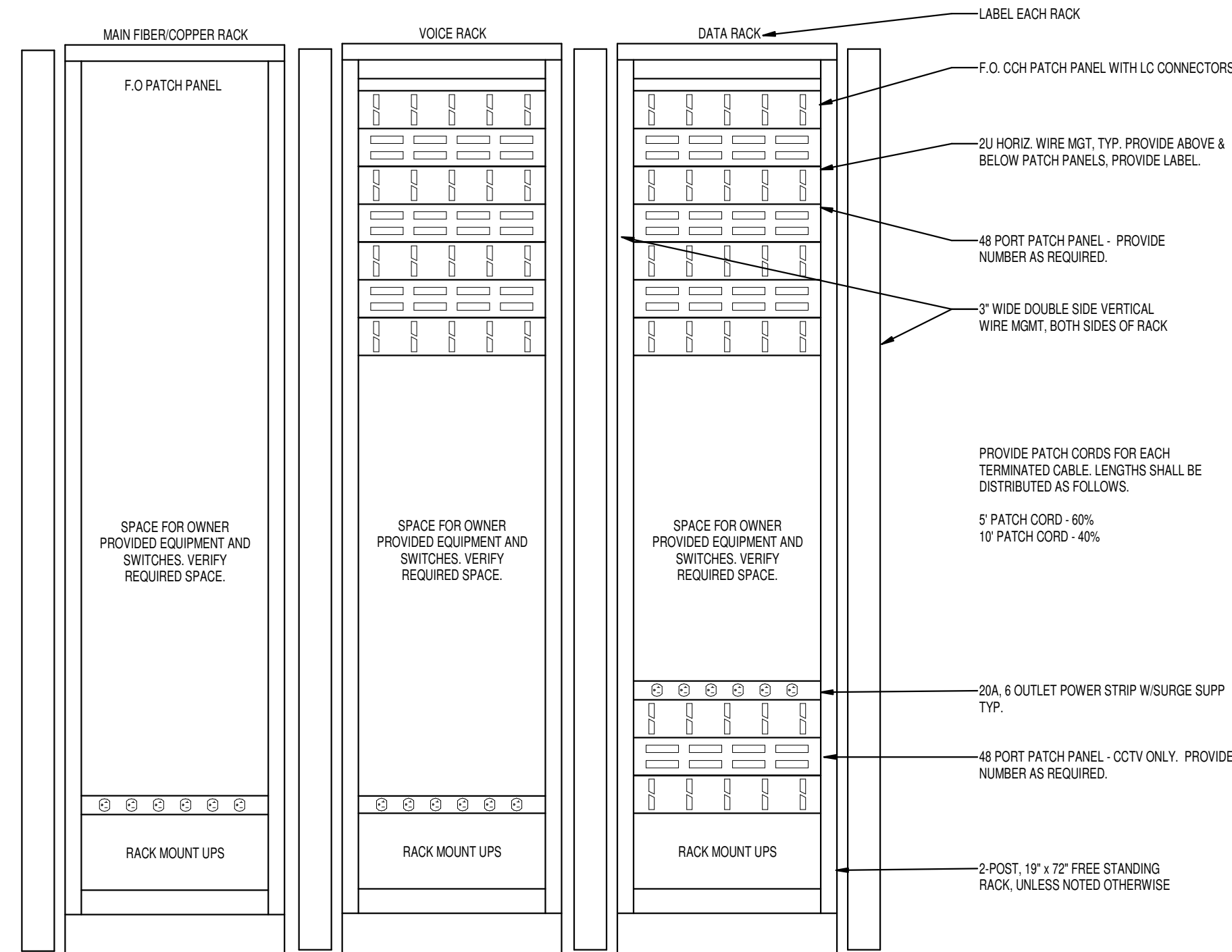
5 **TIERED J-HOOK SYSTEM DETAIL**
SCALE: NONE



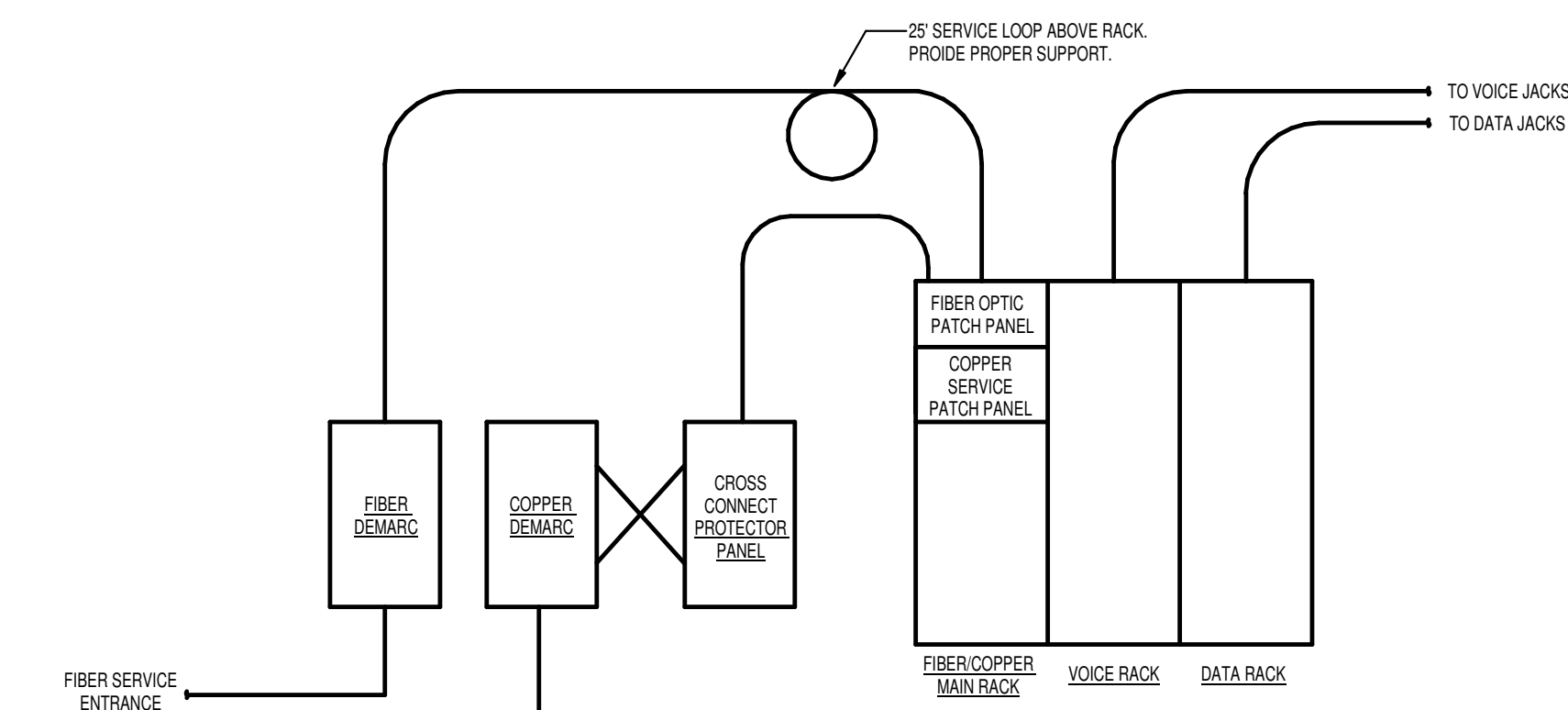
6 **FIRE ALARM SYSTEM DIAGRAM**
SCALE: NONE



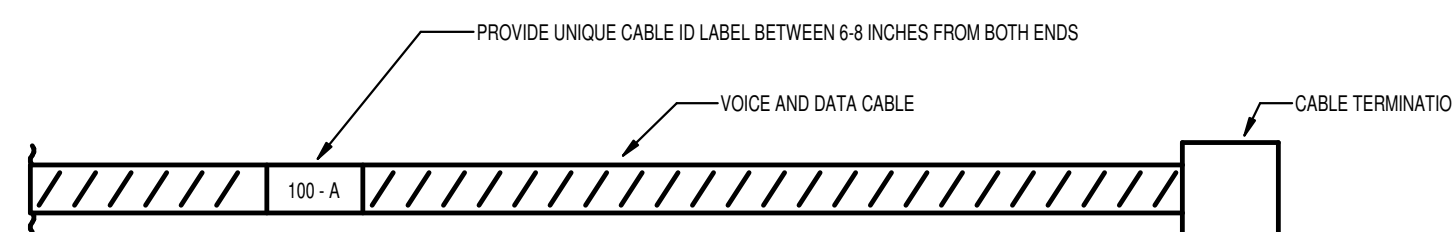
7 **TV SIGNAL WIRING DIAGRAM**
SCALE: NONE



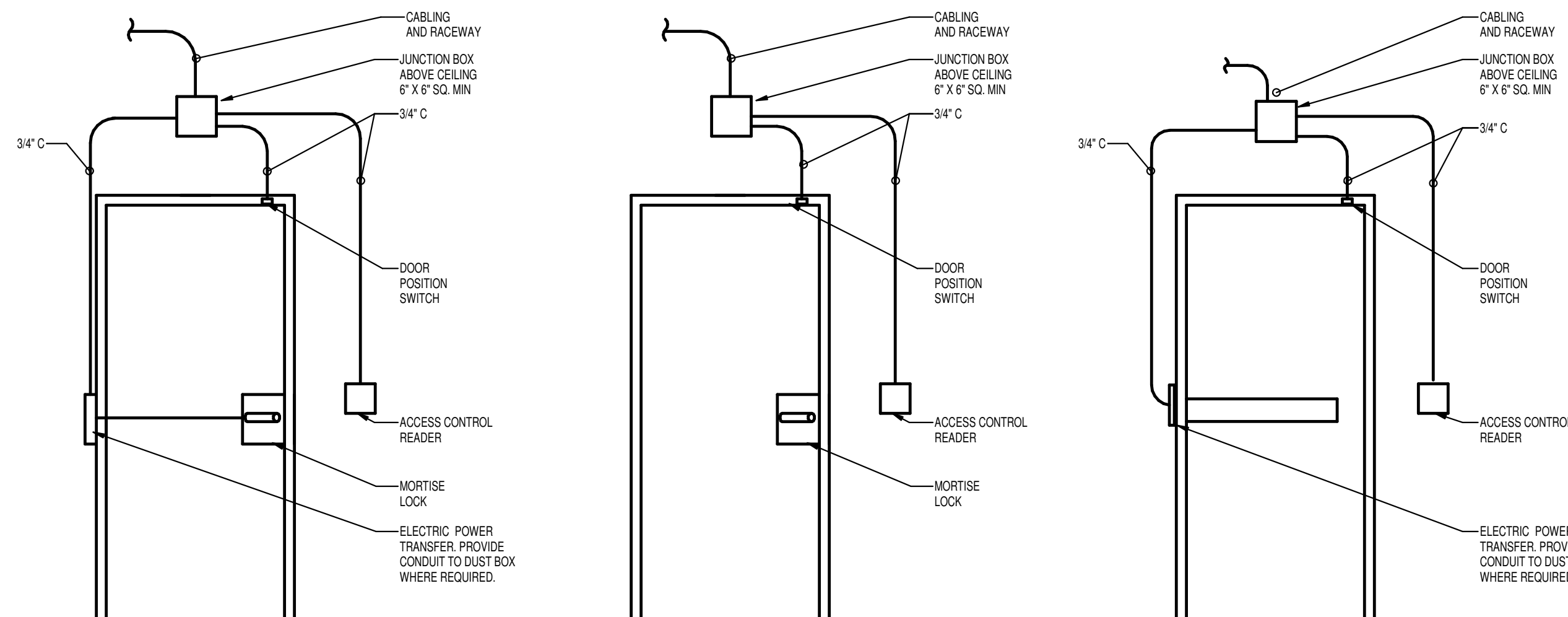
8 **TYPICAL TELECOM RACK ELEVATION**
SCALE: NONE



9 **FIBER/COPPER BACKBONE DIAGRAM**
SCALE: NONE



10 **TYPICAL VOICE/DATA CABLE LABEL**
SCALE: NONE



11 **ACCESS CONTROL RACEWAY DIAGRAMS**
SCALE: NONE

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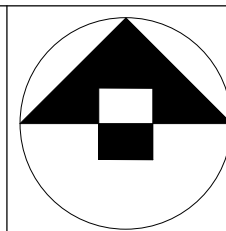


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PORT NORRIS**
2007 HIGHLAND ST, PORT NORRIS
COMMERCIAL TOWNSHIP, NJ 08349
LOT: 14 BLOCK: 183

Drawing
ELECTRICAL DETAILS



Scale As indicated	Job 21.124	Sheet E6.2
Drawn KA	Date 01/16/24	

Branch Panel: L1											
Location: SALLY PORT 131				Volts: 120/208 Wye				Mains Type: Main Lugs Only			
Supply From: MDP				Phases: 3				Mains Rating: 225 A			
Mounting: Surface				Wires: 4							
Enclosure:				A.I.C. Rating: 25 KAIC							
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	RTU-7 on Roof	20 A	3	2100... 800 VA	2100... 800 VA		1	20 A	GFI/WP Outdoor Receptacles	2	
3	--	--	--				1	20 A	Receptacles Rooms 128 and 126	4	
5	--	--	--			2100... 800 VA	1	20 A	Receptacle Above Cabinets Room 127	6	
7	UH-1 Sally Port 131	20 A	3	3200... 800 VA	3200... 1360...		1	20 A	Receptacle Above Cabinets Room 127	8	
9	--	--	--		3200... 1360...		1	20 A	Receptacle Room 127	10	
11	--	--	--			3200... 600 VA	1	20 A	Receptacles Rooms129, 133, and 134	12	
13	UH-2 Sally Port 131	20 A	3	3200... 1200...			1	20 A	Receptacles Sally Port 131	14	
15	--	--	--		3200... 1000...		1	20 A	Receptacles Arrest Processing 132	16	
17	--	--	--			3200... 1000...	1	20 A	Receptacles Arrest Processing 132	18	
19	UH-3 Sally Port 131	20 A	3	3200... 1000...			1	20 A	Receptacles Rooms 135 and 137	20	
21	--	--	--		3200... 800 VA		1	20 A	Receptacles Interview Room 143	22	
23	--	--	--			3200... 200 VA	1	20 A	WP/GFI Receptacles Roof	24	
25	UH-4 Sally Port 131	20 A	3	3200... 1511...			2	30 A	Heat Pump HP-131, on Roof	26	
27	--	--	--		3200... 1511...		--	--	--	28	
29	--	--	--			3200... 1459...	1	20 A	Ltg. Rms. 126, Thru,138, and 143	30	
31	Exhaust Fan EF-1, on Roof	20 A	1	437 VA 500 VA			1	20 A	Gas Detection Panel, Sally Port 131	32	
33	Exhaust Fan EF-2, on Roof	20 A	1		437 VA 500 VA		1	20 A	Roll Up Door in Sally Port 131	34	
35	Exhaust Fan EF-3, on Roof	20 A	1			437 VA 500 VA	1	20 A	Roll Up Door in Sally Port 131	36	
37	Lights & Recept. for Generator Gen 1	20 A	1	500 VA 0 VA			1	20 A	Fume Hood, Evidence Storage Room127	38	
39	Battery Charger, Generator Gen 1	20 A	1		1200... 900 VA		1	20 A	Site Pole Lighting	40	
41	Block heater, Generator Gen 1	20 A	2			1250... 321 VA	1	20 A	Site Flood Lighting	42	
43	--	--	--	1250... 0 VA			1	20 A	CH-1 Secure Vest. 138	44	
45	LCP1	20 A	1		0 VA 495 VA		1	20 A	Lighting under canopy	46	
47	Gate Power	20 A	1			2100... 666 VA	1	20 A	Lighting on Exterior Walls and Under...	48	
49	Door Power Supply	20 A	1	1200... 1128...			1	20 A	Lighting above parking spaces	50	
51	Water Well Pump	20 A	3		900 VA 100 VA		1	20 A	Master-Trol in Arrest Processing 132	52	
53	--	--	--			900 VA 0 VA	1	20 A	Spare	54	
55	--	--	--	900 VA 0 VA			1	20 A	Spare	56	
57	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	58	
59	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	60	
61	Spare	20 A	1	0 VA 0 VA	0 VA		1	20 A	Spare	62	
63	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	64	
65	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	66	
Total Load:				26126 VA	24903 VA	25133 VA					
Total Amps:				218 A	208 A	210 A					
Legend:											
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals			
HVAC		0 VA		0.00%		0 VA					
Heating		40900 VA		80.00%		32720 VA		Total Conn. Load: 76162 VA			
Lighting		3507 VA		100.00%		3507 VA		Total Est. Demand: 64156 VA			
Motor		13733 VA		80.00%		10987 VA		Total Conn. Current: 211 A			
Other		5863 VA		100.00%		5863 VA		Total Est. Demand... 178 A			
Receptacle		12160 VA		91.12%		11080 VA					

Dist. Panel MDP						
Location: SALLY PORT 131			Volts: 120/208 Wye		A.I.C. Rating:	
Supply From: ATS-1			Phases: 3		Mains Type: Main Lugs Only	
Mounting: Surface			Wires: 4		Mains Rating:	
Enclosure:						
Notes:						
CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	Panel L1, Sally Port	3	200 A	200 A	76162 VA	
2	Panel L2, Janitor's Closet 114	3	200 A	200 A	59306 VA	
3	Panel L3, Janitor's Closet 114	3	200 A	200 A	51820 VA	
4	RTU-2, on Roof	3	60 A	30 A	10071 VA	
5	RTU-4, on Roof	3	60 A	50 A	12060 VA	
6	RTU-1, on Roof	3	125 A	125 A	32976 VA	
7						
8						
9						
10						
11						
12						
13						
14						
Total Conn. Load:					242395 VA	
Total Amps:					673 A	
Legend:						
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC		0 VA	0.00%	0 VA		
Heating		40900 VA	80.00%	32720 VA	Total Conn. Load: 242395 VA	
Lighting		10618 VA	100.00%	10618 VA	Total Est. Demand: 176124 VA	
Motor		98054 VA	80.00%	78444 VA	Total Conn. Current: 673 A	
Other		5863 VA	100.00%	5863 VA	Total Est. Demand Current: 499 A	
Receptacle		86960 VA	55.75%	48480 VA		

Branch Panel: L2											
Location: JANITOR 114				Volts: 120/208 Wye				Mains Type: Main Lugs Only			
Supply From: MDP				Phases: 3				Mains Rating: 200 A			
Mounting: Surface				Wires: 4							
Enclosure:				A.I.C. Rating: 10 KAIC							
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	Receptacle Vending Machine	20 A	1	1640... 800 VA			1	20 A	Receptacle Data Room 121	2	
3	Receptacle Vending Machine	20 A	1		1440... 800 VA		1	20 A	Receptacle Space 139, 140, 141 and 142	4	
5	EWG Receptacle Waiting/Lobby 100	20 A	1			400 VA 1000...	1	20 A	Receptacle Corridor 101 and Duty SGT...	6	
7	Receptacle Crisis Office 144	20 A	1	1000... 1400...			1	20 A	Receptacle Duty SGT. 102	8	
9	Receptacle Domestic Violence Room 145	20 A	1		1000... 1800...		1	20 A	Receptacle Detectives 125	10	
11	RTU-6a on Roof	30 A	3			2100... 1600...	1	20 A	Receptacle Detectives 125	12	
13	--	--	--	2100... 1000...			1	20 A	Receptacle Conference Room123	14	
15	--	--	--		2100... 1200...		1	20 A	Receptacle Conference Room 123	16	
17	RTU-6b on Roof	30 A	3			2100... 1000...	1	20 A	Receptacle File Room 120	18	
19	--	--	--	2100... 800 VA			1	20 A	Receptacle Data Room 121	20	
21	--	--	--		2100... 1600...		1	20 A	Receptacle Specialty Equipment 103	22	
23	Floor Box General Office 105	20 A	3			800 VA 960 VA	1	20 A	Receptacle Refrigerator 106	24	
25	--	--	--	800 VA 960 VA			1	20 A	Receptacle Refrigerator 106	26	
27	--	--	--		800 VA 600 VA		1	20 A	GFI Receptacle Break Area 106	28	
29	Receptacle Under Conference Table in...	20 A	1			800 VA 4000...	2	50 A	Receptacle Stove 106	30	
31	Floor Box General Office 105	20 A	3	800 VA 4000...			--	--	--	32	
33	--	--	--		800 VA 1200...		1	20 A	Receptacle	34	
35	--	--	--			800 VA 800 VA	1	20 A	Receptacles Office 107	36	
37	Receptacles General Office 105	20 A	1	1000... 400 VA			1	20 A	Receptacle on Roof	38	
39	Quad Receptacle Data Room 121 Middl...	20 A	1		400 VA 1949...		1	20 A	Lighting Space 104, 105, 106, 107, 120...	40	
41	Receptacle	20 A	1			200 VA 1958...	1	20 A	Lighting Space 100, 101, 102, 103, 124...	42	
43	Receptacle and Range Hood Break Roo...	20 A	1	400 VA 400 VA			1	20 A	Quad Receptacle Data Room 121 Top...	44	
45	Other Space 109	20 A	1		0 VA 400 VA		1	20 A	Quad Receptacle Data Room 121 Botto...	46	
47	Hand Dryer in Witness Duty SGT. T.R...	20 A	1			1200... 400 VA	1	20 A	GFI Receptacle Break Area 106	48	
49	Spare	20 A	1	0 VA 0 VA			1	20 A	Split System in Sally Port 131	50	
51	Spare	20 A	1		0 VA 1200...		1	20 A	Door Power Supply	52	
53	Spare	20 A	1			0 VA 200 VA	1	20 A	Security Panels	54	
55	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	56	
57	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	58	
59	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	60	
61	Spare	20 A	1	0 VA 0 VA			1	20 A	Spare	62	
63	Spare	20 A	1		0 VA 0 VA		1	20 A	Spare	64	
65	Spare	20 A	1			0 VA 0 VA	1	20 A	Spare	66	
Total Load:				19600 VA	19389 VA	20318 VA					
Total Amps:				164 A	162 A	170 A					
Legend:											
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals			
Lighting		3906 VA		100.00%		3906 VA					
Motor		12600 VA		80.00%		10080 VA		Total Conn. Load: 43906 VA			
Other		0 VA		0.00%		0 VA		Total Est. Demand: 40396 VA			
Receptacle		42800 VA		61.68%		26400 VA		Total Conn. Current: 165 A			
								Total Est. Demand... 112 A			

SCHEDULE OF PLUMBING FIXTURES AND CONNECTIONS																								
MARK	FIXTURE	MANUFACTURER	MODEL NO.	TYPE	MATERIAL	STYLE	FAUCET / VALVE				SUPPLY STOPS MANUFACTURER AND MODEL	DRAIN				DOMESTIC CW	DOMESTIC HW	DOMESTIC TW	SANITARY WASTE	SANITARY VENT	REMARKS	MARK		
							MANUFACTURER & MODEL	SPOUT	HANDLES	CENTERS		TYPE	SIZE	P-TRAP	TAILPIECE									
<u>WC1</u> <u>(ADA)</u>	WATER CLOSET	ZURN	Z5665-BWL	FLOOR MOUNT FLUSH VALVE	VITREOUS CHINA	A.D.A. ELONGATED SIPHON-JET	ZURN MODEL ZER600-CPM-WS1	---	BATTERY SENSOR	---	---	---	---	---	1"	---	---	4"	2"	1½" TOP SPUD, 1.6 GALLON FLUSH, ZURN Z5955SS-EL-AM-STS SEAT. TOILET FLANGE BOLTS SHALL BE DOUBLE NUTTED.	<u>WC1</u> <u>(ADA)</u>			
<u>WC2</u>	WATER CLOSET	ZURN	Z5665-BWL	FLOOR MOUNT FLUSH VALVE	VITREOUS CHINA	ELONGATED SIPHON-JET	ZURN MODEL ZER600-CPM-WS1	---	BATTERY SENSOR	---	---	---	---	---	1"	---	---	4"	2"	1½" TOP SPUD, 1.6 GALLON FLUSH, ZURN Z5955SS-EL-AM-STS SEAT. MOUNT AT ADA HEIGHT.	<u>WC2</u>			
<u>U1</u> <u>(ADA)</u>	URINAL	ZURN	Z5755-U	WALL HUNG FLUSH VALVE	VITREOUS CHINA	A.D.A. HEIGHT WASH-OUT FLUSH	ZURN MODEL ZER6003AV-CP-WS1	---	BATTERY SENSOR	---	---	---	---	---	¾"	---	---	2"	1½"	¾" TOP SPUD W/1.0 GALLON FLUSH, ZURN 1222 FULLY ADJUSTABLE CARRIER, MODEL Z5978-STR STRAINER. URINAL TO BE MOUNTED AT ADA HEIGHT.	<u>U1</u> <u>(ADA)</u>			
<u>U2</u>	URINAL	ZURN	Z5755-U	WALL HUNG FLUSH VALVE	VITREOUS CHINA	WASH-OUT FLUSH	ZURN MODEL ZER6003AV-CP-WS1	---	BATTERY SENSOR	---	---	---	---	---	¾"	---	---	2"	1½"	¾" TOP SPUD W/1.0 GALLON FLUSH, ZURN 1222 FULLY ADJUSTABLE CARRIER, MODEL Z5978-STR STRAINER.	<u>U2</u>			
<u>L1</u> <u>(ADA)</u>	LAVATORY	---	---	INTEGRAL BOWL	---	---	ZURN MODEL Z6915-XL-E-TMV-1	INTEGRAL WITH FAUCET	BATTERY SENSOR	4"	ZURN Z8804-XL-LK-Q-PC	ZURN Z8746-PC	1¼"	17 GAUGE 1¼" X 1½"	OFFSET	½"	½"	---	1½"	1½"	P-TRAP SHALL BE ADJUSTABLE CAST BRASS WITH CLEANOUT. PROVIDE ZURN Z8946-3-NT PROTECTIVE COVERINGS FOR ALL TAILPIECES, TRAP, SUPPLIES. PROVIDE THERMOSTATIC MIXING VALVE.	<u>L1</u> <u>(ADA)</u>		
<u>L2</u> <u>(ADA)</u>	LAVATORY	ZURN	Z5344	WALL MOUNT AT ADA HEIGHT	VITREOUS CHINA	20" x 18"	ZURN MODEL Z6915-XL-E-TMV-1	INTEGRAL WITH FAUCET	BATTERY SENSOR	4"	ZURN Z8804-XL-LK-Q-PC	ZURN Z8746-PC	1¼"	17 GAUGE 1¼" X 1½"	OFFSET	½"	½"	---	1½"	1½"	PROVIDE CONCEALED ARM WALL CARRIER. P-TRAP SHALL BE ADJUSTABLE CAST BRASS WITH CLEANOUT. PROVIDE ZURN Z8946-3-NT PROTECTIVE COVERINGS. PROVIDE THERMOSTATIC MIXING VALVE.	<u>L2</u> <u>(ADA)</u>		
<u>S1</u> <u>(ADA)</u>	SINK	ELKAY	LRAD2918	DOUBLE BOWL DROP IN	STAINLESS STEEL	SELF-RIMMING OFF-CENTERED DRAIN	ZURN MODEL Z871G1-XL-HCT	INTEGRAL WITH FAUCET	LEVERS	8"	ZURN Z8804-XL-LK-Q-PC	ZURN Z8739-17-PC	1½"	17 GAUGE 1½" X 1½"	OFFSET	½"	½"	---	1½"	1½"	P-TRAP SHALL BE ADJUSTABLE CAST BRASS WITH CLEANOUT. BOWL SHALL BE 6" DEEP. PROVIDE THERMOSTATIC MIXING VALVE.	<u>S1</u> <u>(ADA)</u>		
<u>SH1</u>	SHOWER	---	---	---	TILE	---	ZURN Z7301-SS-MT	ZURN Z7000-S5 ZURN Z7000-A2	SINGLE LEVER	---	---	---	---	---	---	½"	½"	---	2"	1½"	PROVIDE WITH SCHLUTER KERDI-DRAIN WITH STAINLESS STEEL FLANGE WITH 4" STAINLESS STEEL GRATE.	<u>SH1</u>		
<u>MB1</u>	JANITOR SINK	ZURN	Z1996-24-MH-WG	FLOOR SET	HIGH DENSITY COMPOSITE BASIN	24"x24"x10"	ZURN MODEL Z843M1-XL-CS-HCT-WHK-SH	¾" HOSE SPOUT WITH VACUUM BREAKER	INDEXED HANDLES	8"	---	STAINLESS STEEL STRAINER	3"	---	---	¾"	¾"	---	3"	1½"	WITH 60" VINYL HOSE, HOSE BRACKET, VINYL BUMPER GUARD, 24"x24" WALL GUARDS, COMPLETE WITH PAIL HOOK AND WALL BRACE.	<u>MB1</u>		
<u>MB2</u>	JANITOR SINK	ZURN	Z1996-36-MH-WG	FLOOR SET	HIGH DENSITY COMPOSITE BASIN	36"x24"x10"	ZURN MODEL Z843M1-XL-CS-HCT-WHK-SH	¾" HOSE SPOUT WITH VACUUM BREAKER	INDEXED HANDLES	8"	---	STAINLESS STEEL STRAINER	3"	---	---	¾"	¾"	---	3"	1½"	WITH 60" VINYL HOSE, HOSE BRACKET, VINYL BUMPER GUARD, 36"x24" & (2) 24"x24" WALL GUARDS, COMPLETE WITH PAIL HOOK AND WALL BRACE.	<u>MB2</u>		
<u>EW1</u> <u>ADA</u>	ELECTRIC WATER COOLER	OASIS	PGFBAC	WALL MOUNT	BRUSHED STAINLESS STEEL	BARRIER FREE	---	---	---	---	ZURN Z8804-XL-LK-Q-PC	---	---	---	---	17 GAUGE 1¼" X 1½"	---	½"	---	---	1½"	1½"	P-TRAP SHALL BE ADJUSTABLE CAST BRASS WITH CLEANOUT.	<u>EW1</u>
HB1	HOSE BIBB	ZURN	Z875L7	WALL MOUNT	CHROME PLATED SOLID BRASS	LOOSE KEY	---	---	---	---	---	---	---	---	---	¾"	---	---	---	---	CERAMIC 1/4 TURN OPERATING CARTRIDGE. PROVIDE VACUUM BREAKER. MOUNT 18" ABOVE FINISHED FLOOR.	HB1		
<u>TS1</u>	COMB. TOILET LAVATORY	ACORN	1418-AR-3-BPH-04-M-EVS2-PBH-EVS12-EVS3PV	FLOOR SET	STAINLESS STEEL COUNTERTOP	---	---	---	---	---	ZURN Z8804-XL-LK-Q-PC	---	---	---	---	17 GAUGE 1¼" X 1½"	---	1"	½"	---	4" / 1½"	2" / 1½"	SEE FLOOR PLANS FOR RIGHT OR LEFT HAND UNIT. REFER TO MANUFACTURERS INSTALLATION MANUAL FOR INSTALLATION REQUIREMENTS. COLOR BY ARCHITECT.	<u>TS1</u>
<u>TS2</u>	COMB. TOILET LAVATORY	ACORN	1449FA-LO-3-BPH-PBH-04-DMB-BPH-EVS12-EVS3PV	FLOOR SET	STAINLESS STEEL COUNTERTOP	---	---	---	---	---	ZURN Z8804-XL-LK-Q-PC	---	---	---	---	17 GAUGE 1¼" X 1½"	---	1"	½"	---	4" / 1½"	2" / 1½"	SEE FLOOR PLANS FOR RIGHT OR LEFT HAND UNIT. REFER TO MANUFACTURERS INSTALLATION MANUAL FOR INSTALLATION REQUIREMENTS. COLOR BY ARCHITECT.	<u>TS2</u>
<u>WH1</u>	WALL HYDRANT	ZURN	Z1320-NB	NON-FREEZE	NICKEL BRONZE BOX NICKEL BRONZE FACE	ENCASED	---	---	---	---	---	---	---	---	---	¾"	---	---	---	---	ANTI-SIPHON, AUTOMATIC DRAINING, NON FREEZE w/INTEGRAL BACKFLOW PREVENTER, INCLUDE OPERATING KEY. MOUNT 18" ABOVE FINISHED GRADE.	<u>WH1</u>		

SCHEDULE OF PLUMBING DRAINS AND CLEANOUTS									
MARK	FIXTURE	MANUFACTURER	MODEL NUMBER	TYPE	MATERIAL	STYLE	DRAIN SIZE	REMARKS	MARK
<u>FD1</u>	FLOOR DRAIN	ZURN	ZN415B-P-13	NO HUB OR NEO-LOCK	CAST IRON / NICKEL BRONZE TOP	6" ROUND	PER DWGS.	PROVIDE WITH DEEP SEAL P-TRAP.	<u>FD1</u>
<u>FD2</u>	FLOOR DRAIN	ZURN	Z507-P	NO HUB OR NEO-LOCK	CAST IRON/ CAST IRON TOP	7" ROUND	PER DWGS.	PROVIDE WITH DEEP SEAL P-TRAP.	<u>FD2</u>
<u>FCQ</u>	CLEANOUT	ZURN	ZN1400-VP	NO HUB OR NEO-LOCK	CAST IRON / NICKEL BRONZE TOP	SCORLATED ROUND TOP	PER DWGS.	VANDAL RESISTANT SECURED TOP. PROVIDE NICKEL BRONZE TOP IN FINISHED AREAS, BRONZE TOP IN UNFINISHED.	<u>FCQ</u>
<u>FS1</u>	FLOOR SINK	ZURN	ZS1902-33	NO HUB OR NEO-LOCK	CAST IRON / STAINLESS STEEL TOP	12"x12"x10" WITH SQUARE TOP	PER DWGS.	PROVIDE WITH WHITE A.R.E. INTERIOR AND N.B. ANTI-SPLASH BOTTOM DOME STRAINER.	<u>FS1</u>
<u>QD1</u>	OVERFLOW DRAIN	ZURN	ZC100-AW	NO HUB OR NEO-LOCK	DURA-COATED CAST IRON	LOW SILHOUETTE DOME	PER DWGS.	COMPLETE WITH FLASHING CLAMP, GRAVEL GUARD AND CAST IRON DOME.	<u>QD1</u>
<u>RD1</u>	ROOF DRAIN	ZURN	ZC100	NO HUB OR NEO-LOCK	DURA-COATED CAST IRON	LOW SILHOUETTE DOME	PER DWGS.	COMPLETE WITH FLASHING CLAMP, GRAVEL GUARD AND CAST IRON DOME.	<u>RD1</u>
<u>WCO</u>	WALL CLEANOUT	ZURN	Z1446	NO HUB OR NEO-LOCK	CAST IRON / STAINLESS STEEL COVER	ROUND COVER	PER DWGS.		<u>WCO</u>

SCHEDULE OF TEMPERATURE REGULATING VALVES									
MARK	MANUFACTURER	MODEL NO.	SERVICE	FLOW @ 20 PSI PRESSURE DROP	MINIMUM FLOW	FINISH	INLET WATER CONNECTION	REMARKS	MARK
<u>TMV1</u>	LEONARD	TM-520B-LF-DT	HOT WATER	45 GPM	1 GPM	ROUGH BRONZE	¾" w/INTEGRAL CHECK STOPS	SET HOT WATER OUTPUT @ 120°F MAX. PROVIDE w/ 140° HW & CW INLET SUPPLY STRAINERS.	<u>TMV1</u>

SCHEDULE OF DOMESTIC WATER HEATERS										
MARK	MANUFACTURER	MODEL NO.	TANK CAPACITY (GALLONS)	RECOVERY @ 100 °F TEMPERATURE RISE	BTUH INPUT	HOT WATER TEMP OUT	EFFICIENCY	ELECTRIC	REMARKS	MARK
<u>DWH1</u>	A.O. SMITH	BTX-80	50	86	76000	140	94%	120/1/60	SEE BELOW	<u>DWH1</u>
NOTES: 1. FUEL SOURCE SHALL BE NATURAL GAS. 2. PROVIDE ASME RATED RELIEF VALVE AND CONDENSATE NEUTRALIZATION KIT FOR EACH WATER HEATER. 3. PROVIDE ALL REQUIRED CLEARANCES AROUND WATER HEATER. CONTRACTOR SHALL VERIFY WATER HEATER WILL FIT IN ALLOTTED SPACE. 4. FURNISH AND INSTALL OUTSIDE AIR PIPE, EXHAUST PIPE, AND COMPLETE SYSTEM FOR WATER HEATER COMBUSTION AND VENTING REQUIREMENTS. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STATE FORMS, SUBMITTALS, FEES, PERMITS, ETC. AS REQUIRED FOR WATER HEATER INSTALLATION. 6. BASIS OF DESIGN IS INDICATED IN SCHEDULE. OTHER APPROVED MFG WATER HEATERS MUST MEET ALL THE PERFORMANCE REQUIREMENTS INDICATED.										

SCHEDULE OF PUMPS											
MARK	MANUFACTURER	MODEL	SERVICE	SIZE	IMPELLER	GPM	HEAD	MOTOR H.P.	RPM	INLET SIZE	DISCHARGE SIZE
<u>CP1</u>	BELL & GOSSETT	NBF-18S	DOMESTIC HOT WATER RECIRCULATION	---	---	2	14	90 WATTS	3000	½"	½"
REMARKS: BRONZE BODY, CERAMIC SHAFT, CARBON BEARINGS, NORYL IMPELLER, MAXIMUM WORKING PRESSURE 150 PSI, 230° F MAXIMUM OPERATING TEMPERATURE, PROVIDE WITH TIME CLOCK.											

PLUMBING LEGEND

ABBREVIATION	3D	SYMBOLS	
		3D	2D
AD AREA DRAIN			SANITARY WASTE
BP BOOSTER PUMP			SANITARY VENT
CO CLEANOUT			SD STORM DRAINAGE
CP CIRCULATOR PUMP			SSD SECONDARY STORM DRAINAGE
CW DOMESTIC COLD WATER			G NATURAL GAS
DB DRAIN BOX			CW DOMESTIC COLD WATER
DWH DOMESTIC WATER HEATER			HW DOMESTIC HOT WATER
EW1 ELECTRIC WATER COOLER			HR DOMESTIC HOT WATER RETURN
EX EXISTING			GATE VALVE
FCO FLOOR CLEANOUT			PRV PRESSURE REDUCING VALVE
FD FLOOR DRAIN			BLV BALL VALVE
G NATURAL GAS			CHKV CHECK VALVE
HB HOSE BIBB			CS CIRCUIT SETTER
HR DOMESTIC HOT WATER RETURN			STR STRAINER
HW DOMESTIC HOT WATER			BALANCING STATION (SEE DETAIL)
L LAVATORY			RBP REDUCED PRESSURE BACKFLOW PREVENTER
MB MOP BASIN			WHA WATER HAMMER ARRESTOR
OD OVERFLOW DRAIN			TP TRAP PRIMER
OI OIL INTERCEPTOR			GV GAS VALVE
OR OPEN RECEPTOR			UNION
RD ROOF DRAIN			FID FLOW-IN DIRECTION OF ARROW
RBP REDUCED PRESSURE BACKFLOW PREVENTER			VALV VALVE IN VERTICAL
S COMMERCIAL SINK			ROD RISE OR DROP
SB SUPPLY BOX			BC BRANCH CONNECTION
SD STORM DRAINAGE			RDW RISER DOWN
SH SHOWER			RU RISE UP
SSD SECONDARY STORM DRAINAGE			HB HOSE BIBB
TMV THERMOSTATIC MIXING VALVE			WH WALL HYDRANT
TW TEMPERED WATER			HS HOSE STATION
U URINAL			TMV THERMOMETER
V SANITARY VENT			PG PRESSURE GAUGE
VTR VENT THRU ROOF			CP CIRCULATOR PUMP
W SANITARY WASTE			MAO MEDICAL AIR OUTLET
WC WATER CLOSET			MOO MEDICAL OXYGEN OUTLET
WCO WALL CLEANOUT			MVO MEDICAL VACUUM OUTLET
WS WATER SOFTENER			WAGDI WASTE ANESTHESIA GAS DISPOSAL INLET
YCO YARD CLEANOUT			NOO NITROUS OXIDE OUTLET
			COO CARBON DIOXIDE OUTLET
			NO NITROGEN OUTLET
			ZV ZONE VALVE
			AGA AREA GAS ALARM
			MGA MASTER GAS ALARM
			NCP NITROGEN CONTROL PANEL
			TRN TRANSDUCER
			HAO HOUSE AIR OUTLET
			EC END CAP
			CPN CONNECTION POINT - NEW TO EXISTING
			IR INDICATES REMOVAL
			KEYNOTE

Revisions		
No.	Date	Description
1	12/14/23	RELEASED FOR REVIEW
2	1/16/24	RELEASED FOR BIDDING



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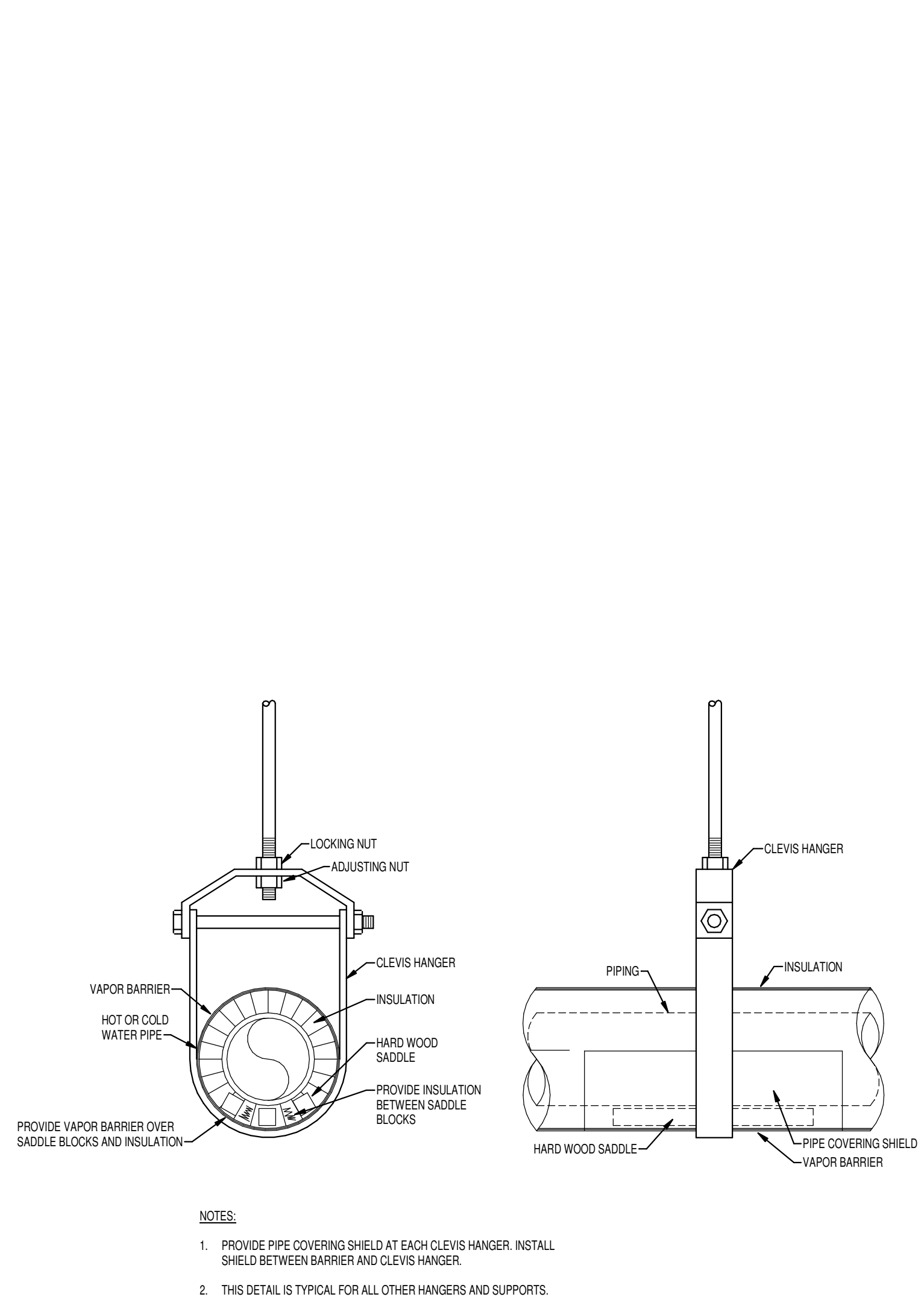
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LOT: 14 BLOCK: 183

Drawing

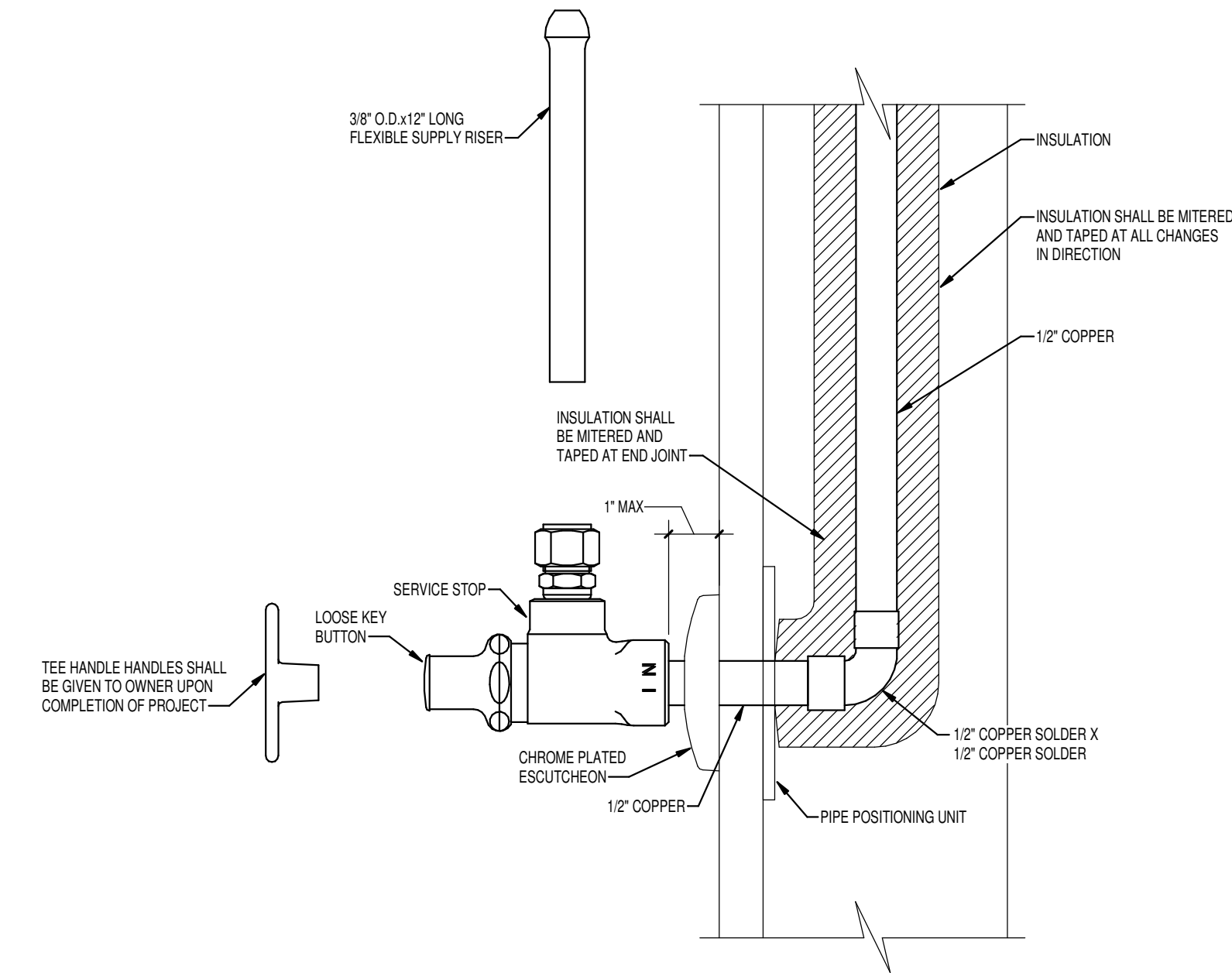
PLUMBING LEGEND AND SCHEDULES

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Drawn	Date	
PTB	01/16/24	

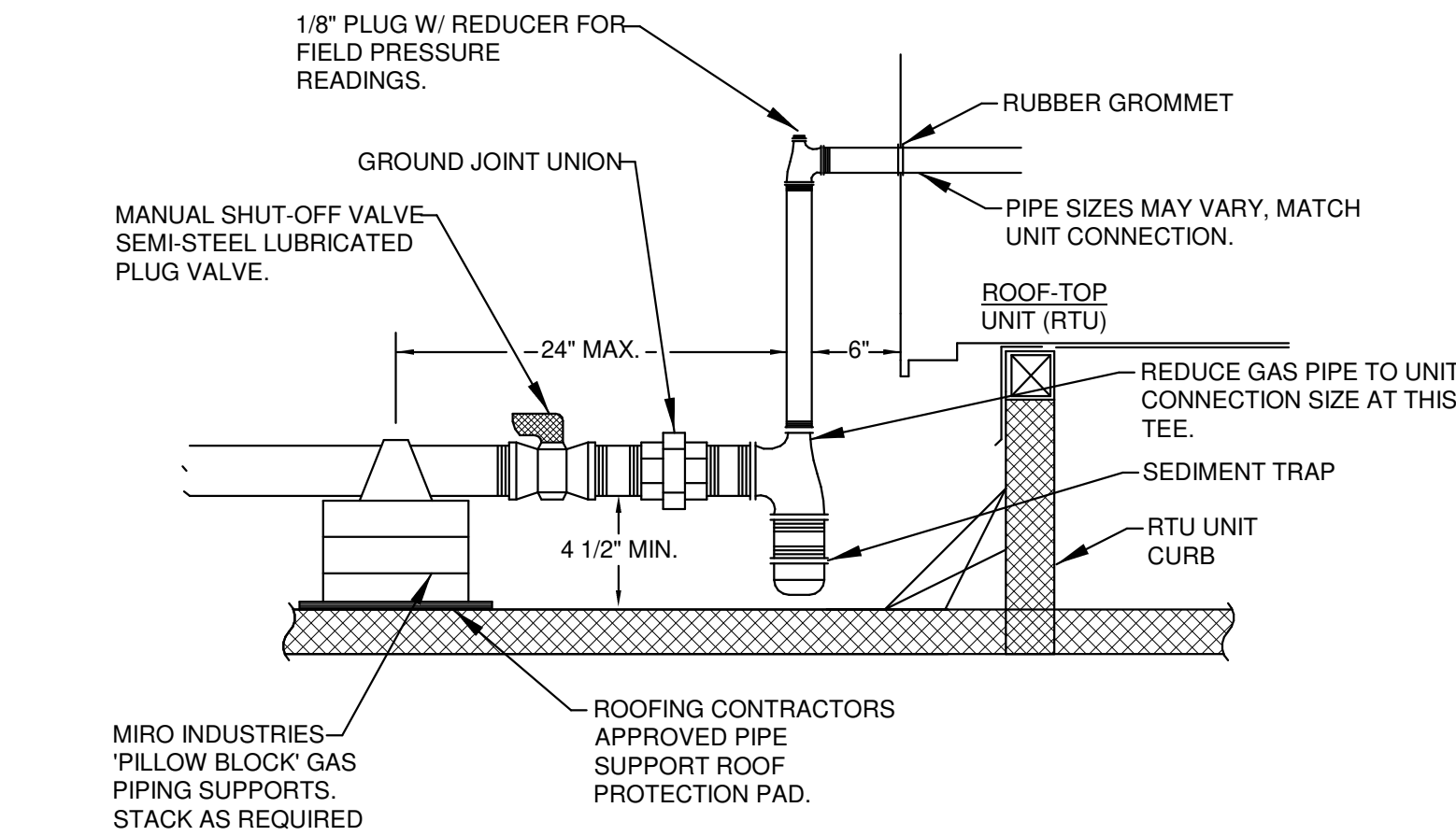
Revisions		
No.	Date	Description
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2	1/16/24	RELEASED FOR BIDDING



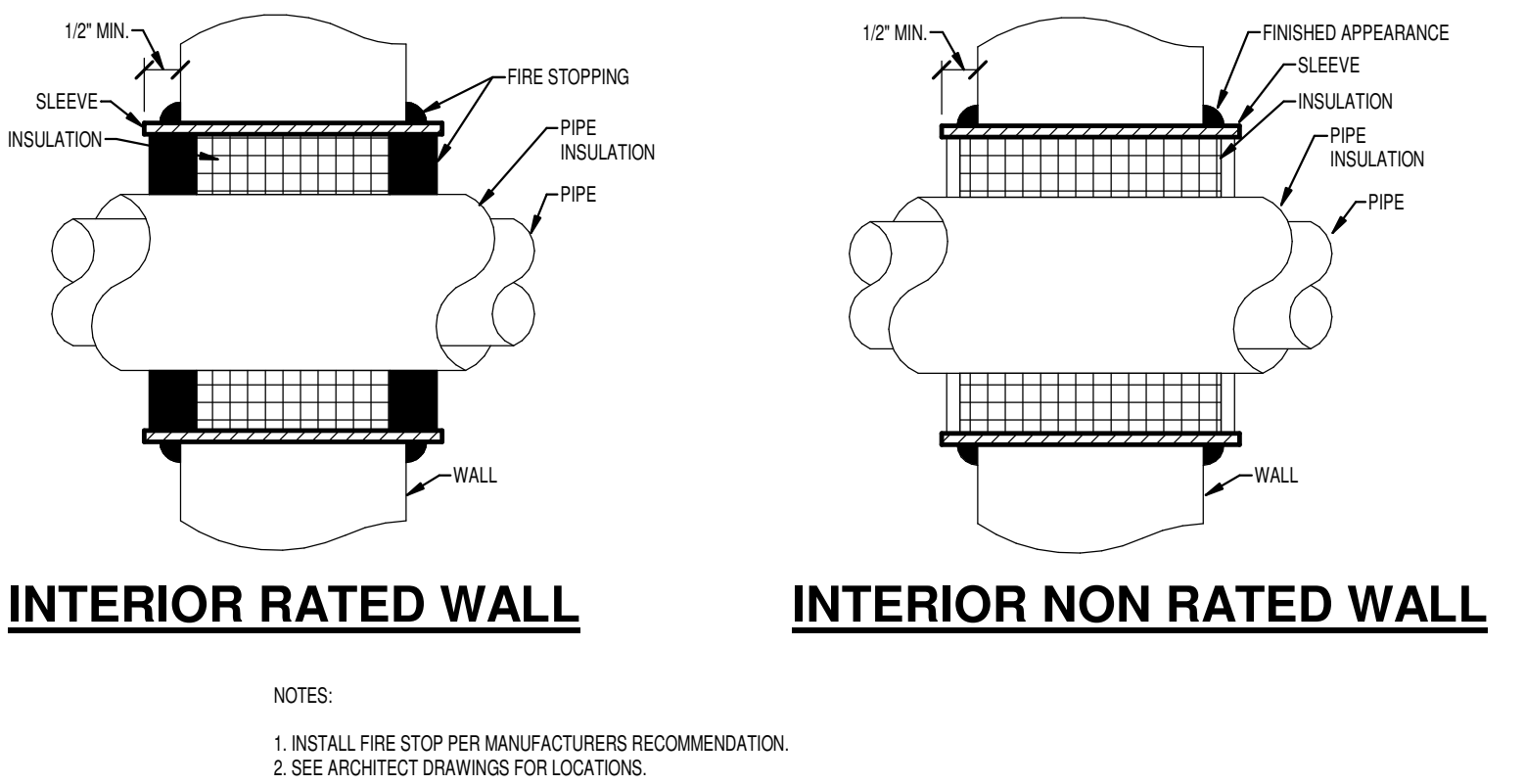
2 **TYPICAL INSULATED PIPE HANGER DETAIL**
SCALE: NONE



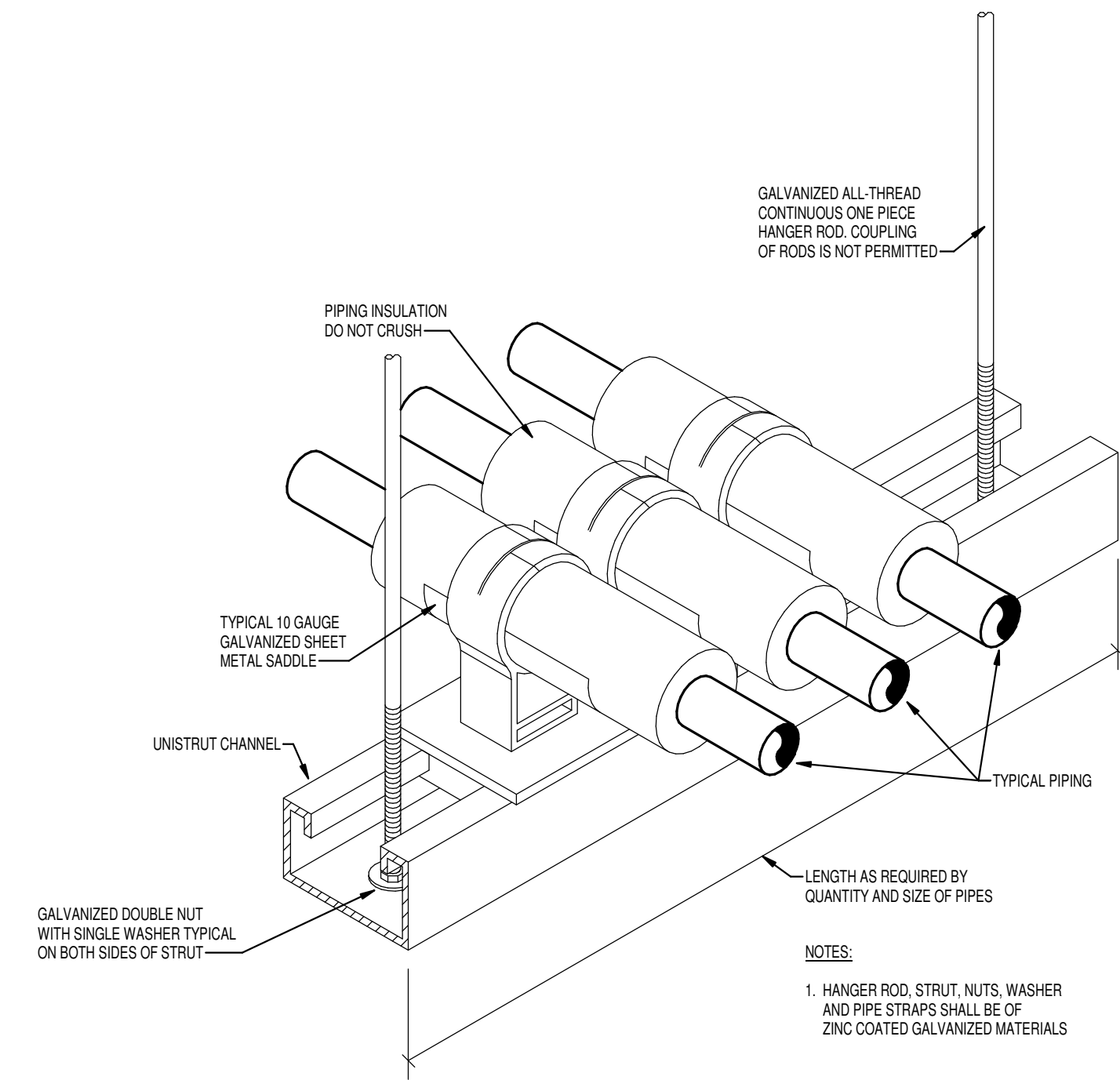
5 **TYPICAL SERVICE STOP INSTALLATION**
SCALE: NONE



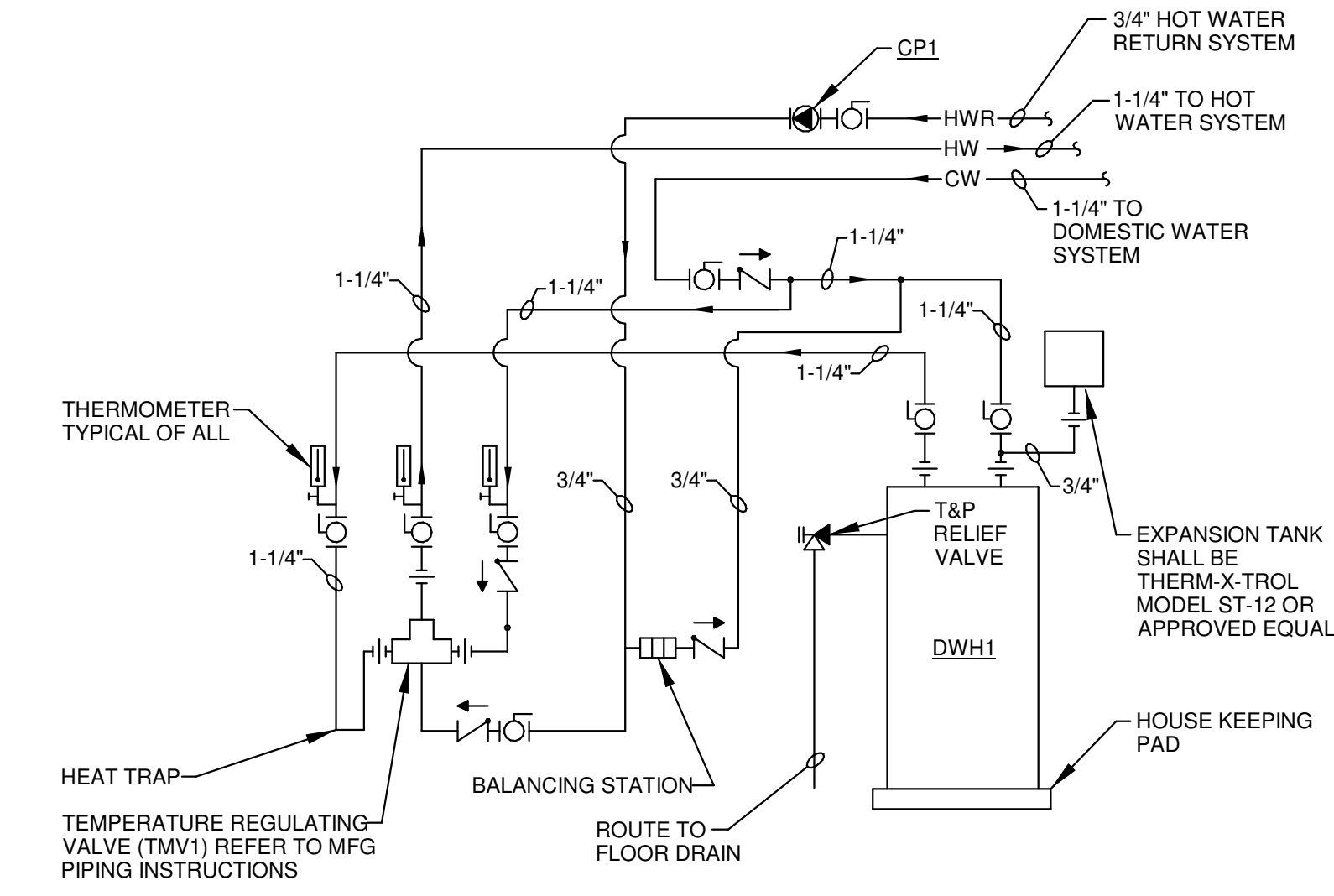
1 **TYPICAL GAS PIPING CONNECTION DETAIL**
SCALE: NONE



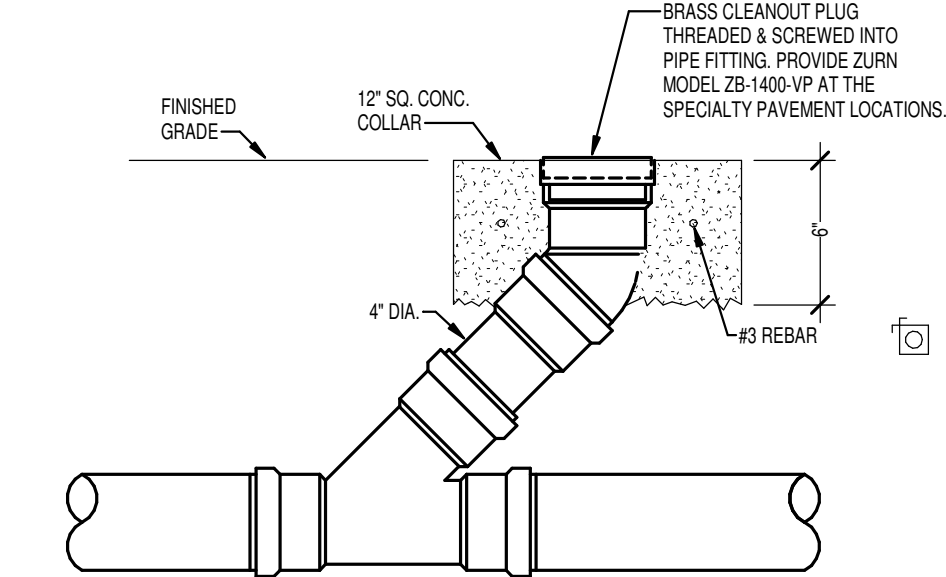
3 **INTERIOR PIPE SLEEVE DETAIL**
SCALE: NONE



4 **TRAPEZE PIPE HANGER DETAIL**
SCALE: NONE



7 **DOMESTIC WATER HEATER PIPING DIAGRAM**
SCALE: NONE



6 **TYPICAL YARD CLEANOUT**
SCALE: NONE

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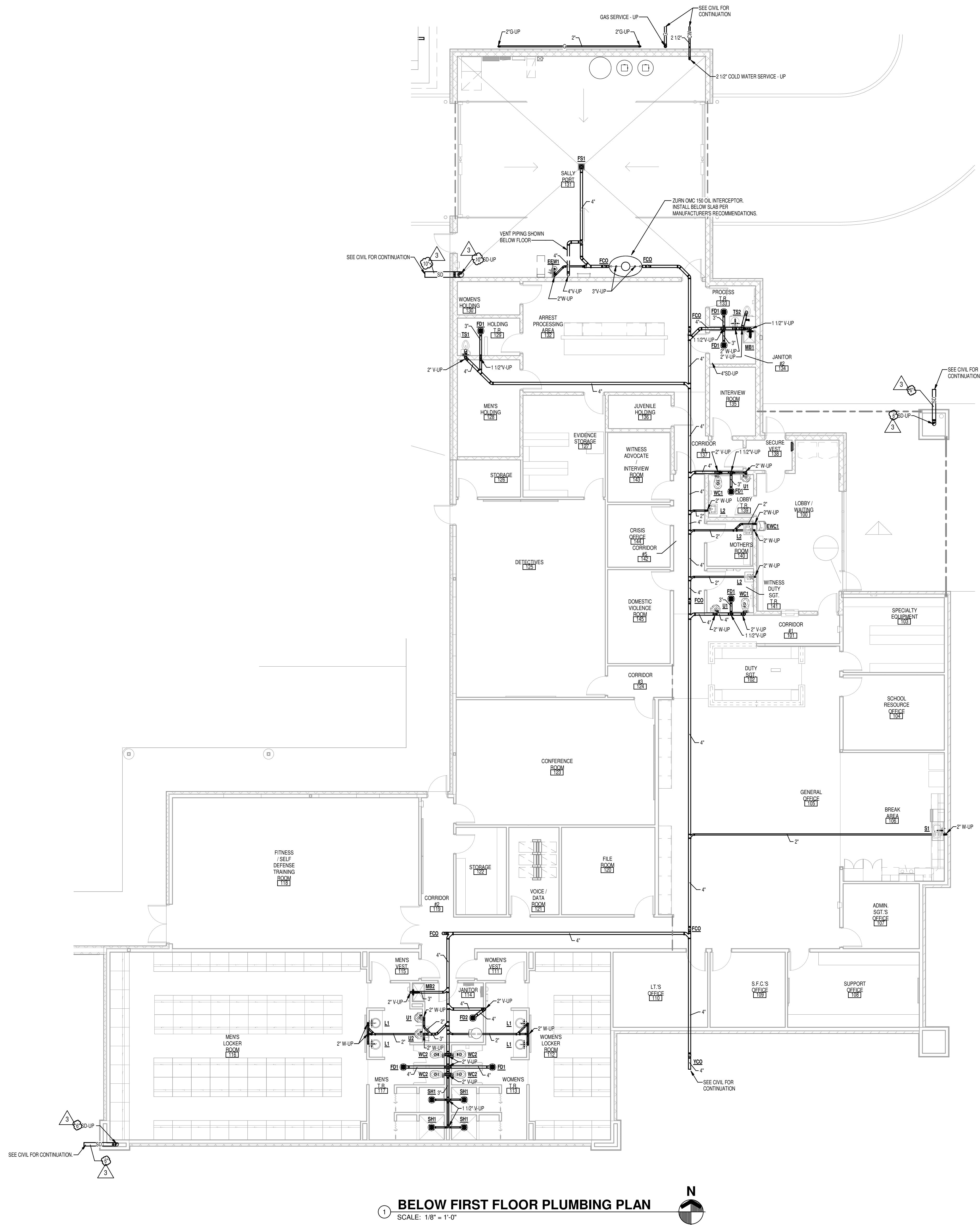
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Drawing		
PLUMBING DETAILS		
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Scale	Job	Sheet
12" = 1'-0"	21.124	P0.2
Drawn	Date	
PTB	01/16/24	



Revisions		
No.	Date	Description
1	12/14/23	RELEASED FOR REVIEW
2	1/16/24	RELEASED FOR BIDDING
3	2/1/24	ROOF DRAIN PIPING REVISIONS



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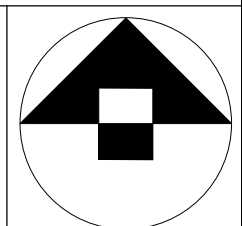
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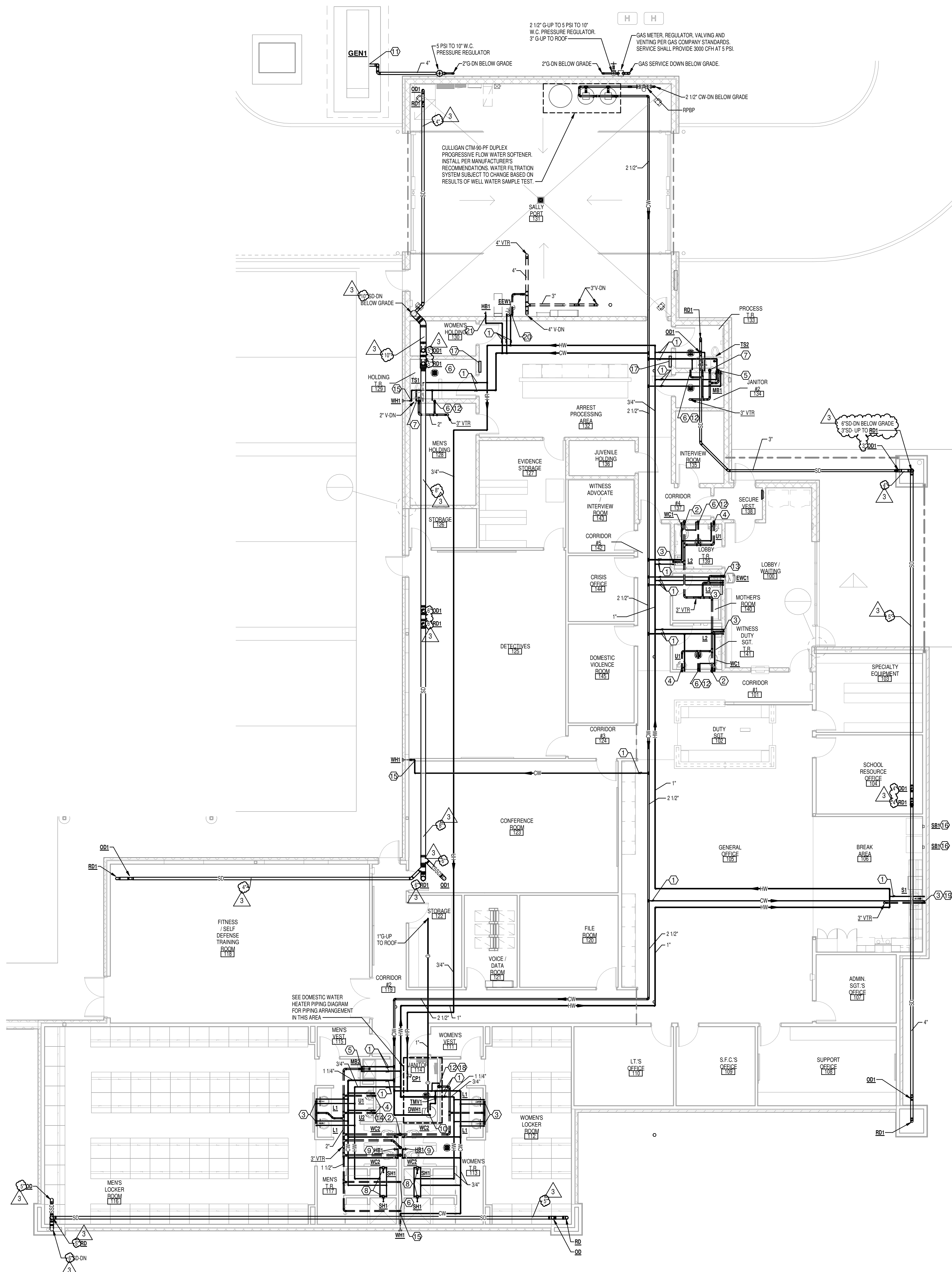
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Drawing
**BELOW FIRST FLOOR
PLUMBING PLAN**



Scale	Job	Sheet
1/8" = 1'-0"	21.124	P1.0
Drawn	Date	
PTB	01/16/24	



FIRST FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF CMU WALLS. COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION OF PLUMBING FIXTURES IN CMU WALLS.

KEYED NOTES:

- ISOLATION VALVE(S).
- 2" VENT, 1" COLD WATER DOWN TO FIXTURE. PROVIDE WATER HAMMER ARRESTOR. TYPICAL FOR WATER CLOSETS.
- 1 1/2" VENT, 1/2" HOT AND COLD WATER DOWN TO FIXTURE.
- 1 1/2" VENT, 3/4" COLD WATER DOWN TO FIXTURE.
- 2" VENT, 3/4" HOT AND COLD WATER DOWN TO FIXTURE.
- 1 1/2" VENT DOWN.
- 2" VENT, 1 1/2" VENT, 1/2" HOT AND COLD WATER, AND 1" COLD WATER DOWN TO COMBINATION TOILET LAVATORY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR MASTER TROL REMOTE FLUSH SYSTEM INSTALLATION.
- 1/2" HOT AND COLD WATER DOWN TO SHOWER.
- EXTEND AND CONNECT 1/2" COLD WATER TO HOSE BIBB.
- 1" NATURAL GAS DOWN TO WATER HEATER. PROVIDE GAS COCK, UNION, AND DIRT LEG.
- EXTEND AND CONNECT NATURAL GAS TO GENERATOR PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE GAS COCK, UNION, AND DIRT LEG. SEE FLOOR PLAN FOR PIPE SIZE. 5 PSI TO 10" W.C. PRESSURE REGULATOR MUST BE AT LEAST 10' UPSTREAM OF GENERATOR GAS CONNECTION.
- 1/2" COLD WATER DOWN IN WALL. EXTEND AND CONNECT TO FLOOR DRAIN TRAP PRIMER CONNECTION(S).
- 1 1/2" VENT, 1/2" COLD WATER DOWN TO FIXTURE.
- EXTEND AND CONNECT 1/2" COLD WATER FROM WATER CLOSET TO FLOOR DRAIN TRAP PRIMER CONNECTION(S).
- 3/4" COLD WATER DOWN TO WALL HYDRANT.
- EXTEND AND CONNECT 1/2" COLD WATER FROM SINK TO **SB1** TO SERVE REFRIGERATOR.
- MASTER TROL EVS2 CONTROLLER. COORDINATE WITH ELECTRICAL CONTRACTOR TO INSTALL WITH **TS1/TS2**.
- 2" VENT DOWN.
- EXTEND AND CONNECT 1/2" HOT WATER TO DISHWASHER. PROVIDE DISHWASHER WYE FOR DISHWASHER DISCHARGE.
- 1 1/2" VENT DOWN TO FIXTURE. 3/4" HOT AND COLD WATER DOWN TO THERMOSTATIC MIXING VALVE. EXTEND AND CONNECT 1/2" TEPID WATER FROM THERMOSTATIC MIXING VALVE TO EYEWASH.
- 3/4" COLD WATER DOWN TO HOSE BIBB.

Revisions		
No.	Date	Description
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3	2/1/24	ROOF DRAIN PIPING REVISIONS




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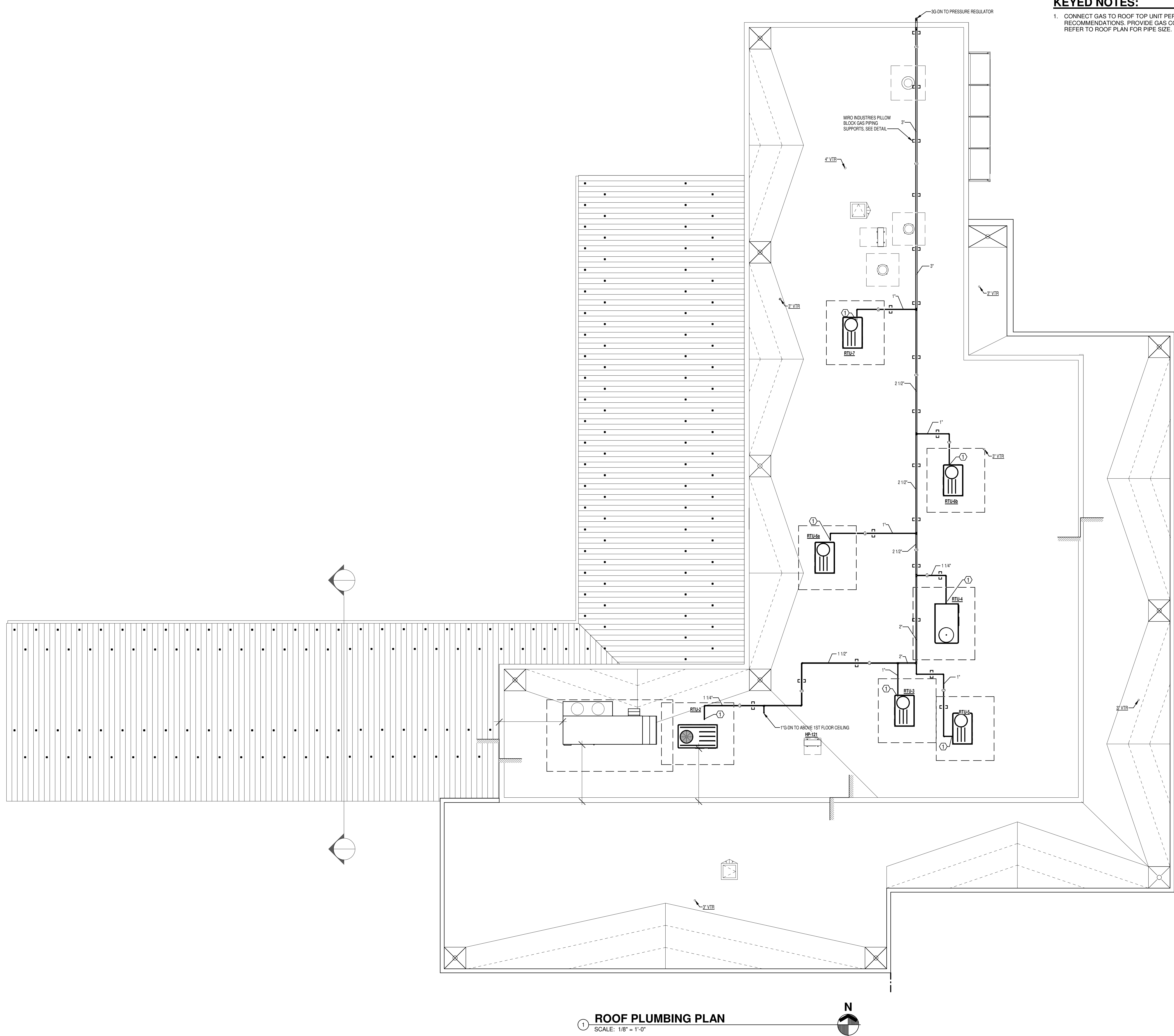
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Drawing		
FIRST FLOOR PLUMBING PLAN		
Scale As indicated	Job 21.124	Sheet P2.0
Drawn PTB	Date 01/16/24	



KEYED NOTES:

1. CONNECT GAS TO ROOF TOP UNIT PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE GAS COCK, UNION AND DIRT LEG. REFER TO ROOF PLAN FOR PIPE SIZE.

Revisions		
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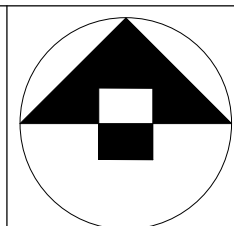
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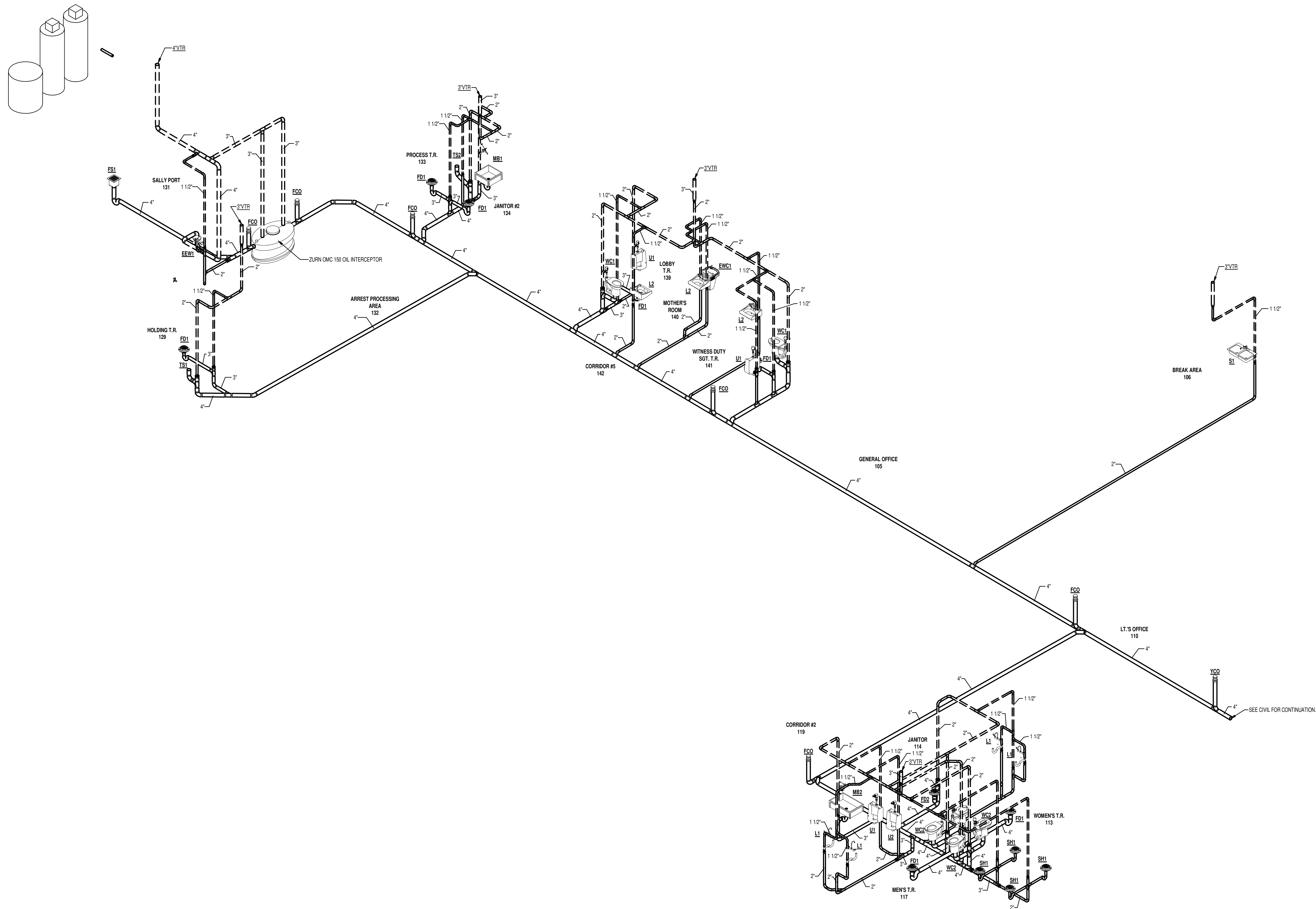
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Drawing

PLUMBING ROOF PLAN



Scale	Job	Sheet
As indicated	21.124	P3.0
Drawn	Date	
PTB	01/16/24	



1 WASTE AND VENT RISER DIAGRAM
SCALE: NONE

Revisions		
No.	Date	Description
1	12/14/23	RELEASED FOR REVIEW
2	1/16/24	RELEASED FOR BIDDING



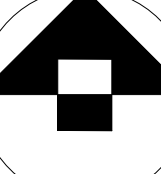
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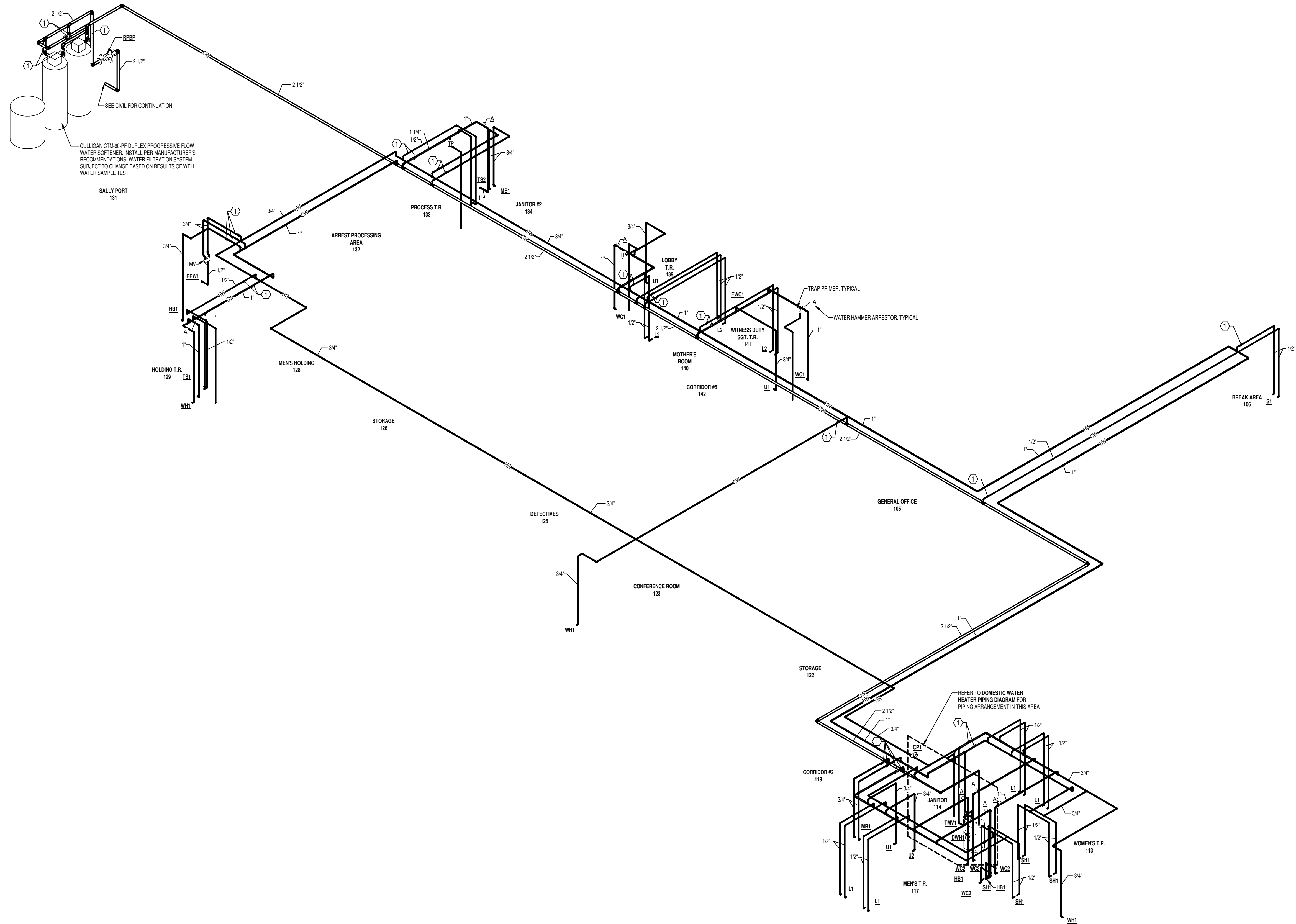


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Drawing		
WASTE AND VENT RISER DIAGRAM		
Scale	Job 21.124	Sheet P4.0
Drawn Author	Date 01/16/24	

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1 DOMESTIC WATER RISER DIAGRAM
SCALE: NONE

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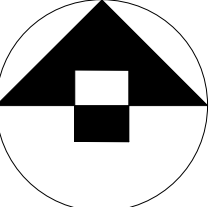
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DOMESTIC WATER RISER DIAGRAM		
Scale	Job 21.124	Sheet P5.0
Drawn Author	Date 01/16/24	