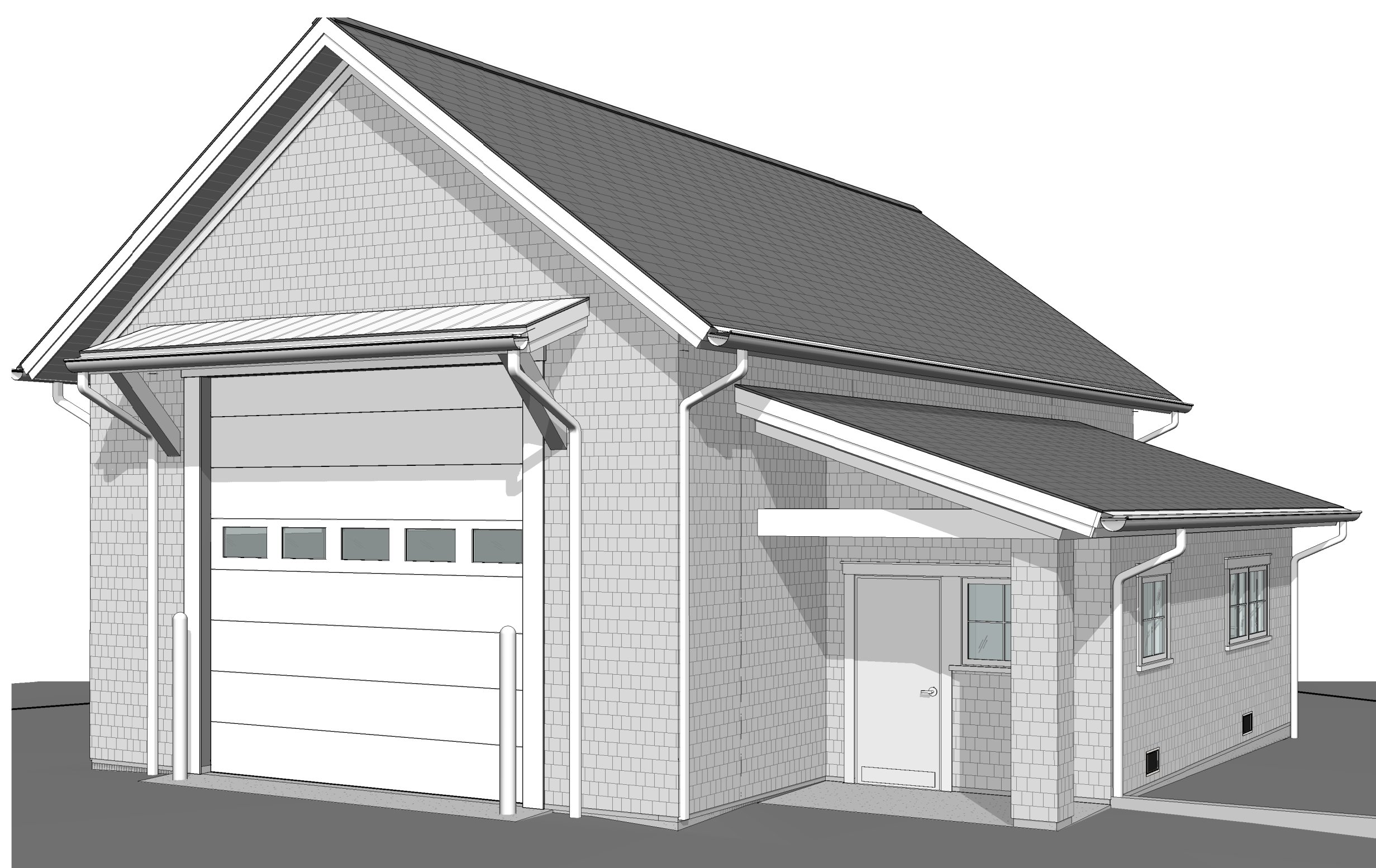


# SESUIT HARBOR IMPROVEMENTS

## TOWN OF DENNIS

351 SESUIT HARBOR ROAD  
DENNIS, MA 02660



② HARBORMASTER GARAGE - 3D VIEW



① HARBORMASTER OFFICE - 3D VIEW

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08 . 01 . 2025

STAMP:

### Harbormaster Office & Garage Drawing List

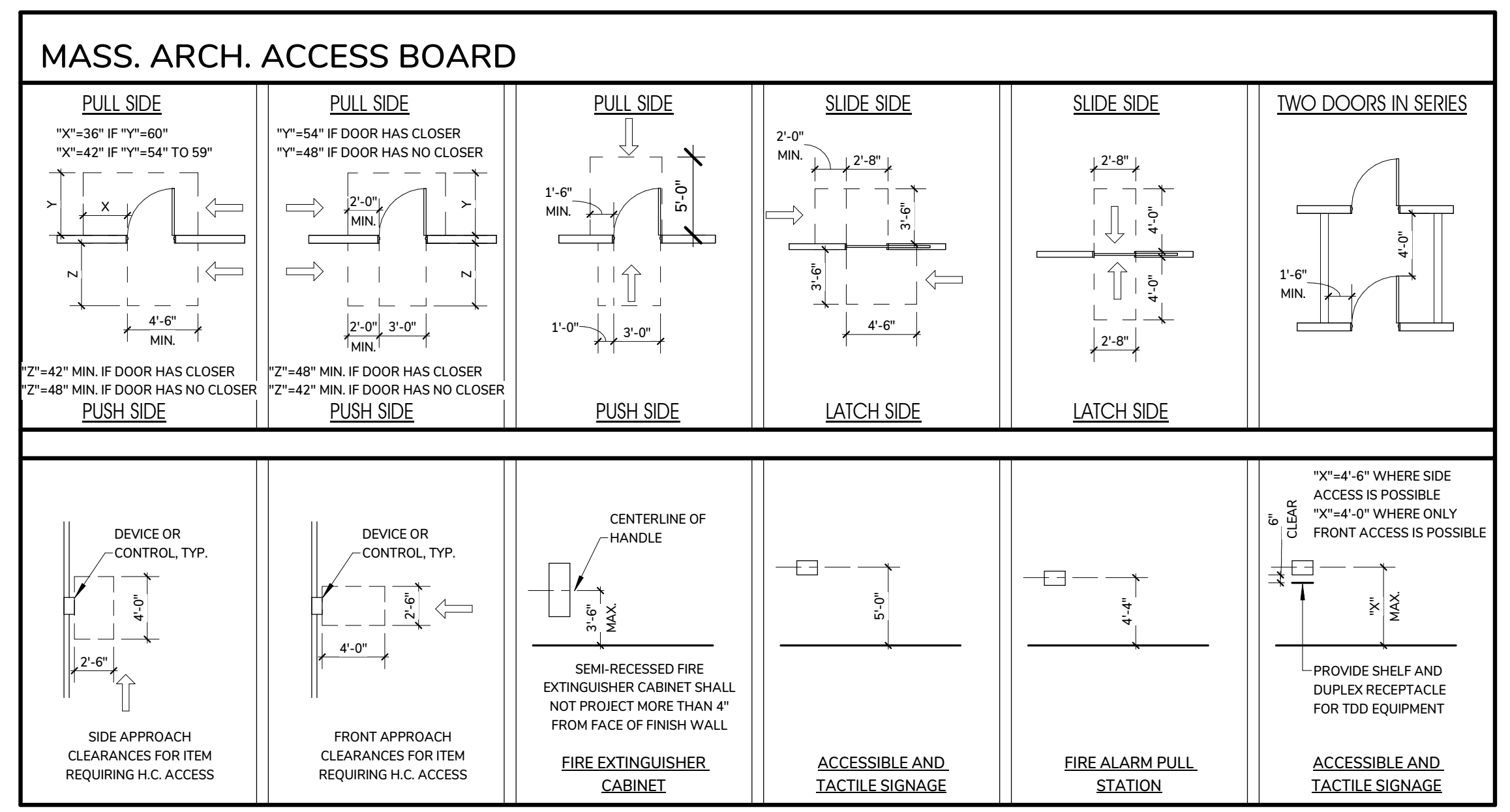
NO.	Sheet Name
1-DATA	
A0.0	HARBORMASTER OFFICE - COVER SHEET
A0.1	HARBORMASTER OFFICE - ABBREVIATIONS, DRAWING INDEX, SCOPE OF WORK
2-CIVIL	
G-001	COVER SHEET
G-002	LEGEND, ABBREVIATIONS AND GENERAL NOTES
C1.2.1	PLAN SHOWING A PORTION OF EXISTING SITE CONDITIONS
C-101	DEMOLITION & EROSION CONTROL PLAN
C-102	LAYOUT & MATERIALS PLAN
C-103	GRADING & DRAINAGE PLAN
C-104	UTILITIES PLAN
C-501	SITE DETAILS
C-502	UTILITY DETAILS
C503	DRAINAGE DETAILS
C504	UTILITY DETAILS
3-ARCHITECTURAL SITE PLANS	
L.1	HARBORMASTER - ARCHITECTURAL SITE PLAN
L.2	HARBORMASTER - LANDSCAPE PLAN
L.3	CHEMICAL STORAGE SHED PLANS
4-ARCHITECTURAL	
A1.0	HARBORMASTER OFFICE GRADE LEVEL PLAN
A1.1	HARBORMASTER OFFICE - FLOOR PLAN
A1.2	HARBORMASTER OFFICE ROOF PLAN
A1.3	HARBORMASTER OFFICE - REFLECTED CEILING PLAN
A1.4	HARBORMASTER OFFICE - ATTIC LEVEL PLAN
A1.5	HARBORMASTER GARAGE GRADE & FLOOR PLANS
A1.6	HARBORMASTER GARAGE ROOF & REFLECTED CEILING PLAN
A2.1	HARBORMASTER OFFICE - BUILDING ELEVATIONS
A2.2	HARBORMASTER OFFICE - BUILDING ELEVATIONS
A2.3	HARBORMASTER GARAGE - BUILDING ELEVATIONS
A3.1	HARBORMASTER OFFICE - BUILDING SECTIONS
A3.2	HARBORMASTER OFFICE - BUILDING SECTIONS
A3.3	HARBORMASTER OFFICE - BUILDING SECTIONS
A3.4	HARBORMASTER OFFICE - BUILDING SECTIONS
A4.1	HARBORMASTER OFFICE - EXTERIOR WALL SECTIONS & DETAILS
A4.2	HARBORMASTER GARAGE EXTERIOR WALL SECTIONS
A5.1	HARBORMASTER OFFICE FLOOR, WALL, CEILING & ROOF TYPICAL ASSEMBLY
A5.2	HARBORMASTER GARAGE - DETAILS
A6.1	HARBORMASTER OFFICE - EXTERIOR RAMP DETAILS
A6.2	HARBORMASTER OFFICE - EXTERIOR STAIRS DETAIL
A7.0	HARBORMASTER OFFICE - ELEVATED DECK ELEVATIONS
A7.1	HARBORMASTER OFFICE - ENLARGED PLANS & INTERIOR ELEVATIONS
A7.2	HARBORMASTER OFFICE - INTERIOR ELEVATIONS
A8.1	HARBORMASTER OFFICE - CASEWORK DETAIL
A9.1	ROOM FINISH SCHEDULE & CASEWORK DETAILS
A9.2	HARBORMASTER OFFICE - DOOR SCHEDULE & DOOR DETAILS
A9.3	HARBORMASTER OFFICE - WINDOW SCHEDULE & WINDOW DETAILS
A9.4	HARBORMASTER GARAGE OPENING SCHEDULES & DETAILS
A9.5	HARBORMASTER GARAGE WINDOW SCHEDULE & WINDOW DETAILS
A9.6	HARBORMASTER OFFICE - 3D VIEWS
5-STRUCTURAL	
S0.1	GENERAL NOTES
S0.2	GENERAL NOTES
S1.0	HARBORMASTER HELICAL FOUNDATION PLAN
S1.0A	HARBORMASTER MAIN FLOOR DROP BEAM PLAN
S1.1	HARBORMASTER MAIN FLOOR FRAMING PLAN
S1.2	HARBORMASTER ROOF FRAMING PLAN
S1.3	HARBORMASTER GARAGE FOUNDATION PLAN
S1.4	HARBORMASTER GARAGE SLAB PLAN
S1.5	HARBORMASTER GARAGE HOIST & CEILING FRAMING PLAN
S1.6	HARBORMASTER GARAGE ATTIC AND ROOF FRAMING PLAN
S1.7	HARBORMASTER GARAGE ROOF FRAMING PLAN
S2.0	FOUNDATION DETAILS - HELICAL
S3.0	STRUCTURAL DETAILS
S3.1	STRUCTURAL DETAILS II
S4.0	ROOF FRAMING SECTIONS
6-MECHANICAL	
M0.01	MECHANICAL LEGEND & GENERAL NOTES
MG1.1	MECHANICAL HARBORMASTER GARAGE - DUCTWORK FLOOR PLAN
M1.1	MECHANICAL HARBORMASTER OFFICE - DUCTWORK FLOOR PLAN
M1.2	MECHANICAL HARBORMASTER OFFICE - ROOF PLAN
M2.1	MECHANICAL HARBORMASTER OFFICE - PIPING FLOOR PLAN
M5.01	MECHANICAL SCHEDULES & DETAILS
7-ELECTRICAL	
E0.01	ELECTRICAL LEGEND
E0.02	ELECTRICAL SITE
E0.03	ELECTRICAL SITE
E1.1	ELECTRICAL HARBORMASTER OFFICE - LIGHTING FLOOR PLAN
E2.1	ELECTRICAL HARBORMASTER OFFICE - POWER FLOOR PLAN
EF1.1	ELECTRICAL HARBORMASTER OFFICE - FIRE ALARM FLOOR PLAN
E2.2	ELECTRICAL HARBORMASTER OFFICE - ROOF PLAN
EG 1.1	ELECTRICAL HARBORMASTER GARAGE - LIGHTING FLOOR PLAN
EG 2.1	ELECTRICAL HARBORMASTER GARAGE - POWER FLOOR PLAN
EF1.1	ELECTRICAL HARBORMASTER GARAGE - FIRE ALARM FLOOR PLAN
E4.01	RISER DIAGRAM
E5.01	ELECTRICAL LEGEND
E6.01	ELECTRICAL DETAILS
8-PLUMBING	
P0.01	PLUMBING LEGEND & GENERAL NOTES
PG 1.0	PLUMBING HARBORMASTER GARAGE - UNDERGROUND PLAN
PG 1.1	PLUMBING HARBORMASTER GARAGE - WASTE & VENT FLOOR PLAN
PG 2.1	PLUMBING HARBORMASTER GARAGE - WATER PIPING FLOOR PLAN
P1.0	PLUMBING HARBORMASTER OFFICE - UNDERGROUND PLAN
P1.1	PLUMBING HARBORMASTER OFFICE - WASTE & VENT FLOOR PLAN
P1.2	PLUMBING HARBORMASTER OFFICE - ROOF PLAN
P2.1	PLUMBING HARBORMASTER OFFICE - WATER PIPING FLOOR PLAN
P5.01	PLUMBING SCHEDULES
P6.01	PLUMBING DETAILS

ABBREVIATIONS		SYMBOLS	
AB. ANCHOR BOLT	HGT. HEIGHT		NORTH ARROW
A.F.F. ABOVE FINISH FLOOR	H.M. HOLLOW METAL		SECTION INDICATOR
ACT. ACOUSTICAL TILE	INSUL. INSULATION		LETTER IN TOP HALF OF CIRCLE
ALUM ALUMINUM	INT. INTERIOR		INDICATES THE SPECIFIC SECTION. THE NUMBER AND LETTER IN THE BOTTOM HALF INDICATES THE DWG. NO. WHICH THE SECTION APPEARS
ANOD ANODIZED	JOINT		LEVEL ELEVATION
@ AT	LAG. LAG BOLT		INTERIOR ELEVATION NUMBERS INDICATE ELEVATION NUMBER & LETTER INDICATES THE DRAWING WHERE THE ELEVATIONS ARE LOCATED
BSMT BASEMENT	LAM. LAMINATE		REF VIEW NAME
BIT BITUMINOUS	LAV. LAVATORY		ROOM NAME
BLK BLOCK	L. LENGTH		DOOR TAG
BLKG BLOCKING	MFR. MANUFACTURER		WINDOW TAG
BOTT BOTTOM	M.O. MASONRY OPENING		WALL TYPE
B.O.W BOTTOM OF WALL	MAX. MAXIMUM		PROPERTY LINE TAG
BM BEAM	MECH. MECHANICAL		PROPERTY TAG / ACRES
BLDG BUILDING	MIN. MINIMUM		CONCRETE
CPT CARPET	MTD. MOUNTED		BRICK
CSMT CASEMENT	NO. NUMBER		CONCRETE BLOCK
CK CAULKING	NOM. NOMINAL		PLYWOOD
CLG CEILING	N.I.C. NOT IN CONTRACT		GYPSUM WALL BOARD
CLOS CLOSET	N.T.S. NOT TO SCALE		ROUGH LUMBER
COL COLUMN	O.C. ON CENTER		FINISH LUMBER
CONC CONCRETE	OH. OVERHEAD		RIGID INSULATION
CMU CONCRETE MASONRY UNIT	OPNG. OPENING		EARTH
CONST CONSTRUCTION	PNT. PAINT		GRAVEL
CONT CONTINUOUS	PTD. PAINTED		COMPACTED FILL
CJ CONTROL/CONSTR. JOINT	PART. PARTITION		
CSK COUNTERSUNK	PL. PLATE		
DET DETAIL	PLAS. PLASTER		
DIA DIAMETER	P.I.A.M. PLASTIC LAMINATE		
DIM DIMENSION	PLYWD PLYWOOD		
DR DOOR	P.T. PRESSURE TREATED		
DH DOUBLEHUNG	Q.T. QUARRY TILE		
DWG(S) DRAWING(S)	REQ'D REQUIRED		
DF DRINKING FOUNTAIN	REF. REFRIGERATOR		
DW DISHWASHER	REV. REVISIONS		
ELEC ELECTRIC(AL)	R. RISER		
EL. ELEVATION	R.D. ROOF DRAIN		
ELEV. ELEVATOR	RM. ROOM		
EMER. EMERGENCY	R.O. ROUGH OPENING		
EQ. EQUAL	SECT. SECTION		
EXIST EXISTING OR EX.	SCHED. SCHEDULE		
E.J. EXPANSION JOINT	SPEC. SPECIFICATIONS		
EXP. EXPOSED	STD. STANDARD		
EXT. EXTERIOR	S&P SHELF&POLE		
FIN. FINISHED	STL. STEEL		
F.A. FIRE ALARM	SUSP. SUSPENDED		
F.B.O. FURNISHED BY OWNER	THK. THICK		
F.E. FIRE EXTINGUISHER	T&B. TOP&BOTTOM		
F.D. FLOOR DRAIN	T&G. TONGUE&GROOVE		
FL. FLOORING	T.O.F. TOP OF FOUNDATION		
FLUOR. FLUORESCENT	T.O.S. TOP OF SLAB		
FT. FOOT	T.O.SH. TOP OF SHELVE		
FTG. FOOTING	T.O.W. TOP OF WALL		
FND. FOUNDATION	T. TREAD		
FURR. FURRED(IN)G	TYP. TYPICAL		
GAS GAS	UNFIN. UNFINISHED		
GALV. GALVANIZED	V.I.F. VERIFY IN FIELD		
G.C. GENERAL CONTRACTOR	VIN. VINYL		
GL. GLASS / GLAZING	VCT. VINYL COMPOSITION TILE		
GR. GRADING	WVC. VINYL WALL COVERING		
GWB. GYPSUM BOARD	WC. WATER CLOSET		
HDBD HARDBOARD	W. WIDE/WIDTH		
HDWD. HARDWOOD	W/ WITH		
HVAC. HEATING, VENTILATING, & AIR CONDITIONING	W/O WITHOUT		
HDWR. HARDWARE	W.W.M. WELDED WIRE MESH		
	WD. WOOD		

### DRAWINGS ARE REPRESENTATIONAL ONLY DO NOT SCALE DRAWINGS

- SCOPE OF WORK:**  
**1.02 WORK UNDER THIS CONTRACT:**  
 A. The work to be done under this Contract, shall include Construction of a Harbormaster Office Building with Public Restrooms, a separate Garage/workshop Building. Site improvement include a complete site renovation for improved parking and circulation, naturalization of current paved area, new and modified curb-cuts and a new IA on site septic system. The buildings and site improvements will be consistent with current design standards within a high hazard flood zone, and modern methods and protocols will be adhered to. All areas disturbed will be returned to preconstruction conditions or better upon project completion. Scope of work includes but is not limited to furnishing all labor, materials, tools, equipment, appliances, transportation and other necessary facilities for the performance and completion of all work as indicated on the drawings and specifications, generally including but not limited to, the following major work:
1. Site layout, clearing, grading, excavation, back filling within the work area (limits of work as noted on the drawings).
  2. Demolition/Removal of Site Elements within the work area (limits of work as noted on the drawings)
  3. Building Demolition
  4. Site Demolition
  5. New IA on site septic system
  6. Site drainage and other improvements
  7. Flood zone compliant foundation systems
  8. Reinforced concrete floor slabs, foundations, footings, and misc. pads.
  9. Rough carpentry and framing, plywood and fasteners.
  10. Finish carpentry.
  11. Insulation Systems
  12. Cedar Shingle Siding, and Cellular PVC trim.
  13. Damp proofing and caulking.
  14. Miscellaneous Stair / ramp, Handrails, and Guardrails
  15. Roofing, flashing, gutters.
  16. Exterior windows.
  17. Fiberglass Exterior Doors.
  18. Solid core interior doors.
  19. Door Hardware.
  20. Toilet Accessories.
  21. Resilient Flooring and Base
  22. Cabinets and Counters
  23. Painting
  24. Plumbing Systems
  25. Heating & Ventilation Systems
  26. Electrical work
  27. Fire Alarm/Life Safety Systems

- 1.03 WORK UNDER SEPARATE CONTRACTS:**  
 A. As provided in Article 6 of the General Conditions, the following items shall be provided by the Owner or by others under a separate agreement with the Owner for which the Owner has responsibility.  
 Coordination with these vendors or sub-contractors, General Contractors is required of the selected General Contractor.
1. Utility Company "Backcharges" or connection charges
  2. Construction materials testing
- Close attention and coordination is to be paid where different contracts Scope of Work intersect.



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SESUIT HARBOR IMPROVEMENTS  
 TOWN OF DENNIS  
 351 SESUIT HARBOR ROAD  
 DENNIS, MA 02660

TITLE:  
 HARBORMASTER  
 OFFICE -  
 ABBREVIATIONS,  
 DRAWING INDEX,  
 SCOPE OF WORK

DATE ISSUED: 08 . 01 . 2025

Revisions

DRAWN BY: Author

PROJECT #:

DRAWING NO.:

A0.1

PREPARED BY:

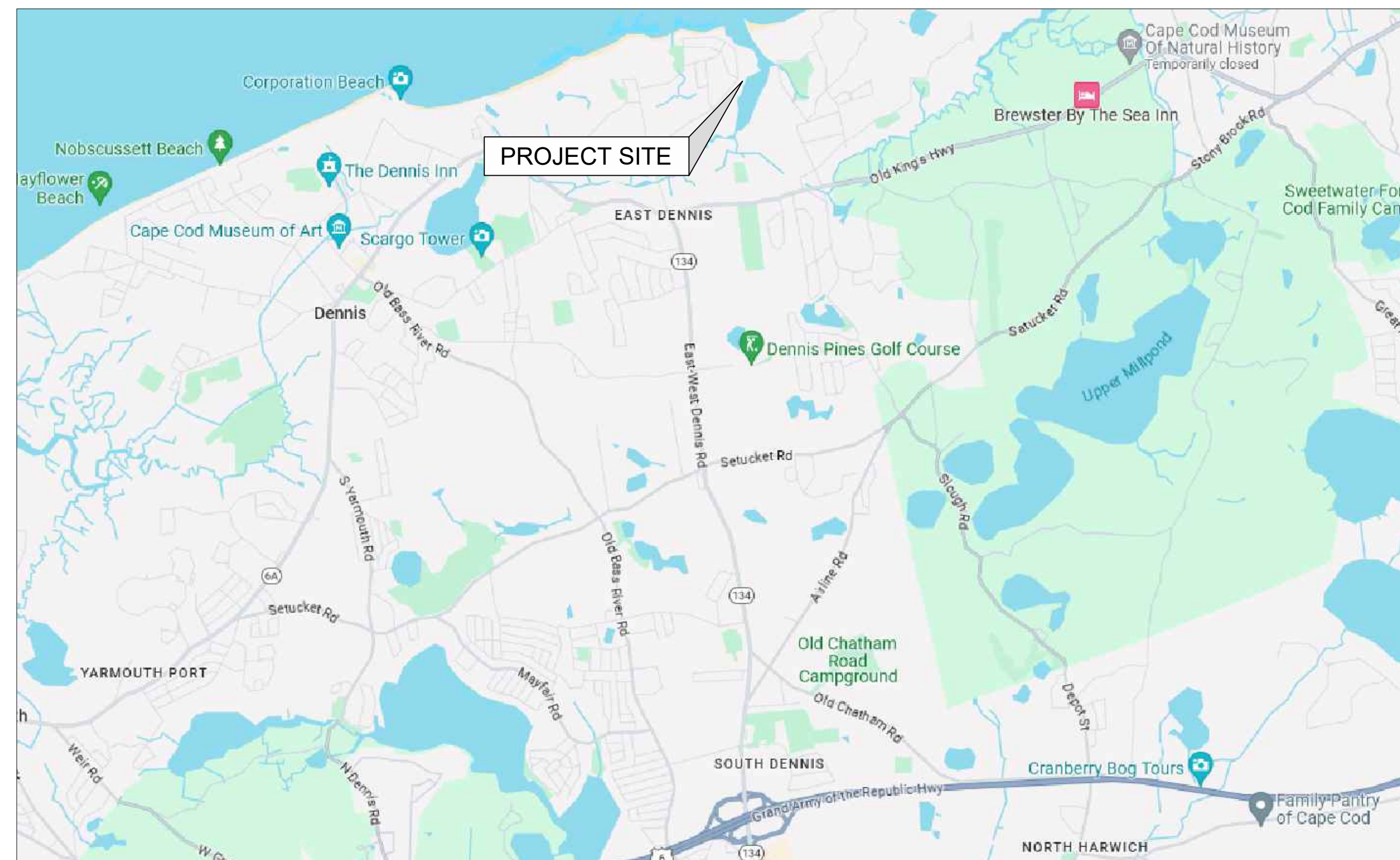


PROJECT NAME:

# CATALYST ARCHITECTURE / INTERIORS SESUIT HARBOR IMPROVEMENTS

PROJECT ADDRESS:

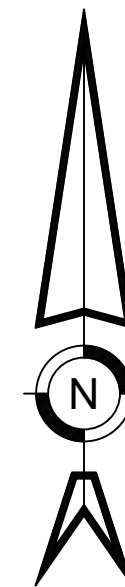
351 SESUIT NECK ROAD  
DENNIS, MA 02660



SITE VICINITY MAP  
SCALE: NTS



SITE LOCATION MAP  
SCALE: NTS



SHEET INDEX			
SHEET #	SHEET TITLE	SHEET DESCRIPTION	DATE
01	G-001	COVER SHEET	2025-09-02
02	G-002	LEGEND, ABBREVIATIONS, AND GENERAL NOTES	2025-09-02
03	C1-2.1	EXISTING CONDITIONS PLAN	2021-08-24
04	C-101	DEMOLITION & EROSION CONTROL PLAN	2025-09-02
05	C-102	LAYOUT & MATERIALS PLAN	2025-09-02
06	C-103	GRADING & DRAINAGE PLAN	2025-09-02
07	C-104	UTILITIES PLAN	2025-09-02
08	C-501	SITE DETAILS	2025-09-02
09	C-502	UTILITY DETAILS	2025-09-02
10	C-503	DRAINAGE DETAILS	2025-09-02
11	C-504	UTILITY DETAILS	2025-09-02

THIS DRAWING IS PREPARED FOR PERMITTING PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION. CONTRACTOR SHALL OBTAIN FINAL CONSTRUCTION DETAILS FROM THE ENGINEER PRIOR TO PREPARATION OF CONSTRUCTION BID AND BEFORE BEGINNING ANY WORK.

REV	DATE	DESCRIPTION	DWN	CHK

PROJECT/CLIENT NAME	<b>CATALYST ARCHITECTURE / INTERIORS SESUIT HARBOR IMPROVEMENTS</b>
ADDRESS	351 SESUIT NECK ROAD DENNIS, MA 02660

SEAL

SHEET DESCRIPTION		COVER SHEET	
PROJECT STATUS	PROJECT NUMBER	SHEET TITLE	<b>G-001</b>
DATE	C19676.00	SHEET NUMBER	
DRAWN BY	2025-09-02		
CHECKED BY	DAP / MDC	SMR / TLM	SHEET 01 OF 11

ABBREVIATIONS

Table of abbreviations including ABDN(D), ABUT, ACC, ADDL, ADJ, APPROX, ASPH, BFP, BL, BSMT, BE, BM, BIT, BOT, BC, BS, BW, BND, BLDG, CATV, CIP, CI, CB, CEM, C-C, CL, CLF, CO, CLR, COL, CONC, CP, CSP, COND, CJ, CMP, CPP, CY, C&G, D, DIA, DR, DMH, DA, DH, DIP, EF, EW, ESMT, E, EC, EOP, ELEC, ELMH, EL/ELEV, ENTR, EX/EXIST, EG, EJ, FF, FH, FES, FLR, FC, FM, FDN, GALV, G, GG, GMH, GRAN, GRV, GRL, HH, HC, HDPE, HP, HMA, HYD, IN, INV, IP, K, LA, L, LVC, LTP.

EXISTING

Table of existing symbols and their corresponding abbreviations, including symbols for accessible parking, baseline offset, baseline station, bottom of bank, boulder, bound, cable box, catch basin, chain link fence, clean-out, concrete, confiner tree, deciduous tree, drain manhole, drainage line, earth, electric line, electric manhole, electric meter, electric service, fire protection, flood light, force main, gas meter, guard rail, guy pole, guy wire, hydrant, iron pipe, irrigation valve, landscaped area, light pole, limit of work, mailbox, major contour, minor contour, miscellaneous manhole, and miscellaneous shrub.

LEGEND

PROPOSED

Table of proposed symbols and their corresponding abbreviations, including symbols for overhead cable line, overhead electric line, overhead telephone line, overhead wire, post, post rail fence, pull box, railroad tracks, rod iron rail, septic manhole, septic vent, sewer force main, sewer main, sign, silt barrier, spot elevation, stone, stone wall, survey control point, telephone box, telephone line, telephone manhole, test pit, top of bank, tree line, underground cable line, underground electrical service, underground gas service, underground line, underground telecom service, utility pole, water main, water service, water surface, water valve, well, wood fence, and wood post.

GENERAL NOTES

- 1. THE SITE IS LOCATED IN DENNIS, MASSACHUSETTS.
2. STANDARD SPECIFICATIONS, WHEN REFERENCED IN THESE DRAWINGS, SHALL MEAN THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION).
3. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE DESIGN PLANS, SPECIFICATIONS, AND THE ORDER OF CONDITIONS ISSUED FOR THE PROJECT.
4. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE MAINTAINED WITHIN THE LIMITS OF THE PROJECT AS SHOWN ON SHEET C-101.
5. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK.
6. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE ORDERING ANY MATERIALS, COMMENCING ANY FABRICATION, OR PERFORMING ANY WORK.
7. THE CONTRACTOR SHALL NOTIFY DIGSAFE AT 1-888-344-7233 AND OTHER UTILITY OWNERS IN THE AREA NOT ON THE DIGSAFE LIST AT LEAST 3 BUSINESS DAYS PRIOR TO ANY DIGGING, TRENCHING, ROCK REMOVAL, DEMOLITION, BORING, BACKFILLING, GRADING, LANDSCAPING, PILE DRIVING, DRILLING, OR ANY OTHER BELOW GRADE OPERATIONS.
8. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IN ADDITION, SOME UTILITIES MAY NOT BE SHOWN.
9. NO OPEN TRENCHES WILL BE ALLOWED OVER NIGHT. THE USE OF ROAD PLATES TO PROTECT THE EXCAVATION WILL BE CONSIDERED UPON REQUEST, BUT BACKFILLING IS PREFERRED.
10. MAINTAIN EMERGENCY ACCESS TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES DURING CONSTRUCTION.
11. ALL PROPOSED WORK MAY BE ADJUSTED IN THE FIELD BY THE OWNER'S PROJECT REPRESENTATIVE TO MEET EXISTING CONDITIONS.
12. CONTRACTOR TO OBTAIN, PAY FOR AND COMPLY WITH PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK.
13. BOLD TEXT AND LINES INDICATE PROPOSED WORK. LIGHT TEXT AND LINES INDICATE APPROXIMATE EXISTING CONDITIONS.
SUBMITTALS
1. THE CONTRACTOR SHALL SUBMIT ALL REQUIRED SUBMITTALS PER THE STANDARD SPECIFICATIONS FOR MATERIALS, TRAFFIC CONTROL PLAN, AND SUPPORT OF EXCAVATIONS, TEST REPORTS AS REQUIRED AND SHALL BE REVIEWED AND APPROVED BY THE TOWN ARCHITECT AND/OR ENGINEER.
PRIOR TO CONSTRUCTION
1. CONTRACTOR TO VERIFY ALL EXISTING UTILITIES. ANY DISCREPANCIES WITH THE DESIGN PLAN TO BE REPORTED TO THE DESIGN ENGINEER PRIOR TO START OF WORK.
2. SILT BARRIER TO BE INSTALLED ON THE LIMIT OF WORK, NO WORK IS TO BE DONE OUTSIDE OF THE SPECIFIED AREA.
LAYOUT
1. THIS PROJECT IS REFERENCED HORIZONTALLY TO THE MASSACHUSETTS STATE PLAN COORDINATE SYSTEM, MAINLAND ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83 (2011) (MYCS2) Epoch 2010.00) AND VERTICALLY TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVVD 88) BY RTK GPS OBSERVATIONS ON 2020-10-28.
2. THE SURVEY CONTROL SHOWN HEREON WAS ESTABLISHED ON 2021-08-24 BY COASTAL ENGINEERING COMPANY, INC.
3. THE CONTRACTOR SHALL VERIFY THE SURVEY CONTROL SHOWN HEREON BY APPROPRIATE LAND SURVEYING METHODS. ANY DISCREPANCIES AND THE METHOD OF VERIFICATION USED MUST BE REPORTED TO COASTAL ENGINEERING COMPANY, INC.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL LAYOUT WORK FROM THE SURVEY CONTROL SHOWN.
EROSION & SEDIMENT CONTROL NOTES
1. PRIOR TO SITE DISTURBANCE, CONTRACTOR TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND FILE WITH EPA FOR A NPDES CONSTRUCTION GENERAL PERMIT (CGP). A COPY OF THE SWPPP AND CGP SHALL BE SUBMITTED TO THE DENNIS CONSERVATION DEPARTMENT.
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL AND PROTECTION OF DRAINAGE STRUCTURES UNTIL COMPLETION OF SITEWORK AND ESTABLISHMENT OF VEGETATIVE GROUND COVER.
3. THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING MEASURES DURING THE DAY-TO-DAY OPERATION AT THE SITE. THE SITE SHOULD BE POLICED DAILY TO REMOVE ANY LITTER OR DEBRIS.
4. TEMPORARY SOIL MATERIAL STOCKPILES SHALL BE SURROUNDED WITH SILTATION BARRIER ON THE DOWNGRADIENT SIDE TO PREVENT DISCHARGE OF SEDIMENT FROM SITE. MATERIAL STOCKPILES THAT ARE IN PLACE FOR AN EXTENDED PERIOD OF TIME SHALL BE STABILIZED WITH VEGETATION, MULCHING, EROSION CONTROL BLANKETS, AND OTHER MEASURES THAT ARE NECESSARY TO PREVENT THE DISCHARGE OF SEDIMENT FROM THE PROJECT SITE.
5. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
6. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
7. PROVIDE ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN, SPECIFIED, REQUIRED BY PERMIT, AND/OR REQUIRED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION OR IMMEDIATELY UPON REQUEST. MAINTAIN SUCH CONTROL MEASURES UNTIL FINAL SURFACE TREATMENTS ARE IN PLACE AND/OR UNTIL PERMANENT VEGETATION IS ESTABLISHED. INSPECT AFTER EACH RAINSTORM AND DURING MAJOR STORM EVENTS TO CONFIRM THAT ALL SEDIMENTATION AND EROSION CONTROL MEASURES REQUIRED ARE IN PLACE AND EFFECTIVE.
8. PRIOR TO STARTING WORK, CLEARLY MARK WORK LIMITS. DO NOT DISTURB THE AREA BEYOND THE PROPOSED LIMITS. COORDINATE WITH THE ENGINEER FOR LOCATIONS OF TEMPORARY STOCKPILING OF TOPSOIL DURING CONSTRUCTION.
9. INSTALL SILT SACKS OR OTHER APPROVED SEDIMENTATION BARRIERS IN/AT ALL CATCH BASINS IN THE PROJECT AREA.
10. COMPACT, STABILIZE, AND LOAM AND SEED SIDE SLOPES, SHOULDER AREAS AND DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND AS REQUIRED BY PERMITS. GRADE SIDE SLOPES, SHOULDER AREAS AND DISTURBED VEGETATED AREAS TO A MAXIMUM SLOPE OF 3 HORIZONTAL TO 1 VERTICAL (3H:1V), WHERE POSSIBLE PROVIDE BIODEGRADABLE EROSION CONTROL BLANKETS TO PREVENT EROSION WHERE SLOPES ARE STEEPER THAN 3H:1V.
11. REMOVE AND PROPERLY DISPOSE OF SILT TRAPPED AT BARRIERS IN UPLAND AREAS OUTSIDE BUFFER ZONES. REMOVE MATERIALS DEPOSITED IN ANY TEMPORARY SETTLING BASINS AT THE COMPLETION OF THE PROJECT. RESTORE ALL DISTURBED AREAS TO THEIR PRE-CONSTRUCTION CONDITION.
12. SWEEP, COLLECT, REMOVE AND DISPOSE OF ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS AT THE END OF EACH DAY.
13. ALL HYDRAULIC EQUIPMENT SHALL UTILIZE BIODEGRADABLE, VEGETABLE BASED, NON-TOXIC AND NON-POLLUTING HYDRAULIC FLUID.
14. STORE FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS IN A SECONDARY CONTAINER AND REMOVE TO A SECURE LOCKED AND COVERED AREA DURING NON-WORK HOURS.

- 15. PROVIDE A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIALS SUCH AS BOOMS, BLANKETS, AND OIL ABSORBENT MATERIALS AT THE CONSTRUCTION SITE AT ALL TIMES TO CLEAN UP POTENTIAL SPILLS OF HAZARDOUS MATERIALS. IMMEDIATELY REPORT SPILLS OF HAZARDOUS MATERIALS TO THE STATE ENVIRONMENTAL AGENCY AND THE MUNICIPALITY WHERE THE WORK IS OCCURRING.
GENERAL EARTHWORK
1. EXCAVATION SLOPE GEOMETRY AND THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES ADJACENT TO THE WORK AREA IS THE CONTRACTOR'S RESPONSIBILITY. PRIOR TO EXCAVATION, SAWCUT THE EXISTING ASPHALT PAVEMENT WITHIN THE APPROXIMATE LIMITS OF THE EXCAVATION TO PROVIDE A CLEAN AND STRAIGHT LINE FOR SURFACE RESTORATION.
2. THE EXCAVATION BOTTOM SHALL BE CAREFULLY SHAPED TO CONFORM TO THE SHAPE OF THE FOUNDATION. THE PREPARED EXCAVATION BOTTOM SHALL BE FREE OF ORGANIC MATERIAL, LARGE STONES OR BOULDERS, AND SIMILAR OBJECTS/MATERIALS.
3. THE BOTTOM OF EXCAVATION AND/OR REMOVAL OF WATER TABLE MATERIAL SHALL BE INSPECTED BY THE ENGINEER PRIOR TO PLACEMENT OF STRUCTURAL FILL AND/OR CONCRETE WORK.
4. PLACE AND COMPACT BACKFILL TO A DENSITY EQUAL TO THE UNDISTURBED EXCAVATION BOTTOM FROM THE BOTTOM OF THE EXCAVATION TO FOUNDATION BOTTOM ELEVATION, AND AS INDICATED IN THE SPECIFICATIONS AND DETAILS.
5. EXCAVATION SHORING SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED. SUBMITTALS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION.
6. FOUNDATION MATERIAL SHALL BE EXCAVATED ON-SITE GRANULAR MATERIAL, FREE FROM STONES, ROOTS, AND ORGANIC MATERIAL, AND OF SUITABLE GRADATION FOR SATISFACTORY COMPACTION. IF EXCAVATED MATERIAL AT A PARTICULAR LOCATION IS NOT AVAILABLE (SEE SECTION MATERIAL HANDLING) OR IS NOT SATISFACTORY, USE IMPORTED GRANULAR MATERIAL CONFORMING TO CONTRACT SPECIFICATIONS.
7. ALL FOUNDATIONS AND SLABS ARE TO BEAR ON UNFROZEN, UNDISTURBED MATERIAL OR UNFROZEN ENGINEERED COMPACTED FILL. IT IS THE CONTRACTORS RESPONSIBILITY TO ASSURE THAT THE SOILS BELOW THE FOOTINGS REMAIN UNFROZEN.
8. ALL COMPACTED FOUNDATION SUB-GRADE FILL MATERIALS SHALL BE FREE OF ORGANIC MATERIAL AND BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698, AND OBTAIN A MINIMUM ALLOWABLE BEARING PRESSURE AS SET FORTH ABOVE.
9. SITE TO BE GRADED SMOOTHLY AND EVENLY IN ACCORDANCE WITH THE DESIGN PLANS. CONTRACTOR IS RESPONSIBLE FOR ENSURING A POSITIVE DRAINAGE FLOW TO ALL DRAINAGE INLETS WITHOUT CREATING ANY FLAT SPOTS THAT WILL RESULT IN STANDING WATER.
EARTHWORK MATERIALS
1. GRAVEL BORROW, SHALL BE M1.03.0 TYPE B AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION M1.03/0: GRAVEL BORROW.
2. CRUSHED STONE, SHALL BE M2.01.4 PER TABLE M2.01.0-1 AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION M2.01.0: CRUSHED STONE.
3. PROCESSED GRAVEL BASE, SHALL BE M1.03.1: PROCESSED GRAVEL FOR SUB-BASE AS SPECIFIED IN THE STANDARD SPECIFICATIONS.
4. DENSE SUB-BASE SHALL BE M.2.01.7: DENSE GRADED CRUSHED STONE FOR SUB-BASE AS SPECIFIED IN THE STANDARD SPECIFICATIONS.
5. BITUMINOUS PAVEMENT MATERIALS REFERENCED IN TYPICAL DETAILS SHALL BE IN COMPLIANCE WITH THE MATERIALS SPECIFIED IN SECTION M3: ASPHALTIC MATERIALS IN THE STANDARD SPECIFICATIONS.
CONCRETE NOTES
1. ALL CONCRETE WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
A. THE STANDARD SPECIFICATIONS TO DATE.
B. THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE": ACI 318-08.
2. CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED UNDER THE SUPERVISION OF THE APPROVED TESTING AGENCY.
3. ALL CONCRETE MIX DESIGNS SHALL BE SIMILAR TO THAT PROVIDED AND APPROVED BY MassDOT. VARIATIONS IN THE MIX DESIGN SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. CONCRETE USED IN PRECAST MEMBERS SHALL CONFORM WITH M4.06.01 (HIGH PERFORMANCE CEMENT CONCRETE):
A. 28-DAY STRENGTH = 5,000 PSI
B. MINIMUM CEMENT PER CY OF CONCRETE = 685 LBS
C. AIR ENTRAINMENT 0.5±1.5%
D. SILICA FUME 6± 1% (DRY WEIGHT)
E. MAXIMUM WATER/CEMENT RATIO = 0.40
F. SLUMP = 2 TO 5 IN (TARGET = 4 IN)
G. MAXIMUM SIZE COARSE AGGREGATE = 3/4"
4. ALL CONCRETE SHALL BE AIR-ENTRAINED TO 6.5± 1.5%.
5. CONCRETE SHALL BE CURED FOR A MINIMUM OF SEVEN DAYS BEFORE ANY LOADS ARE APPLIED THERETO.
6. PROVIDE A STEEL TROWELED FINISH FOR SLABS-ON-GRADE AND A BROOM FINISH FOR EXTERIOR SLABS.
7. ALL CONCRETE SHALL BE PLACED IN THE DRY.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULFILLING THE TESTING REQUIREMENTS FOR ALL CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
9. DURING COLD WEATHER CONDITIONS ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER.
10. DURING HOT WEATHER CONDITIONS, ATTENTION SHALL BE GIVEN TO INGREDIENTS, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION, AND CURING TO PREVENT EXCESSIVE CONCRETE TEMPERATURES OR WATER EVAPORATION THAT WOULD IMPAIR REQUIRED STRENGTH OR SERVICEABILITY OF THE STRUCTURE.
11. ALL EQUIPMENT ANCHOR BOLTS FURNISHED BY EQUIPMENT MANUFACTURER ARE TO BE INSTALLED BY THE CONTRACTOR, AND SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED AS REQUIRED.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CONCRETE MIX DESIGNS AND SPECIFICATION SHEETS FOR ALL ADMIXTURES FOR APPROVAL BY THE ENGINEER PRIOR TO THE PLACEMENT OF ANY CONCRETE.
PLANTING NOTES
1. ALL EXISTING UN-VEGETATED AREAS AND ALL AREAS DISTURBED BY THE PROPOSED CONSTRUCTION WORK LOCATED WITHIN THE LIMITS OF WORK SHOWN ON THE PLANS SHALL BE RE-VEGETATED WITH INDIGENOUS, SALT TOLERANT PLANTINGS TO ENSURE THE ONGOING STABILITY OF THE ROADWAY EMBANKMENT IN THESE AREAS.

THIS DRAWING IS PREPARED FOR PERMITTING PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION. CONTRACTOR SHALL OBTAIN FINAL CONSTRUCTION DETAILS FROM THE ENGINEER PRIOR TO PREPARATION OF CONSTRUCTION BID AND BEFORE BEGINNING ANY WORK.

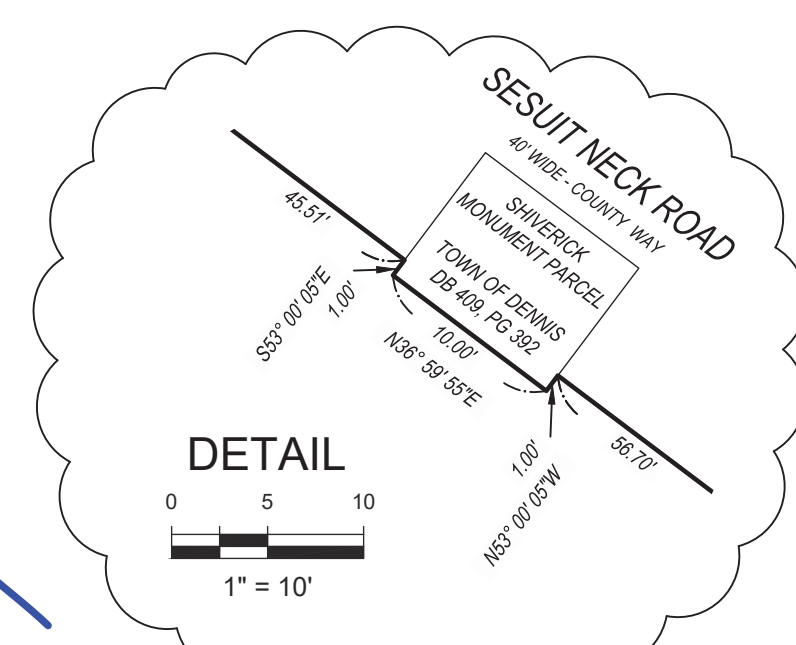
Table with columns for REV, DATE, and DESCRIPTION, used for revision tracking.

CATALYST ARCHITECTURE / INTERIORS
SESIUT HARBOR IMPROVEMENTS
351 SESUIT NECK ROAD
DENNIS, MA 02660



Table containing project information: PROJECT STATUS, PROJECT NUMBER (C19676.00), DATE (2025-09-02), DRAWN BY (DAP / MDC), CHECKED BY (SMR / TLM), SHEET TITLE (LEGEND, ABBREVIATIONS, AND GENERAL NOTES), SHEET NUMBER (G-002), and SHEET 02 OF 11.

MASSACHUSETTS STATE PLANE COORDINATE SYSTEM  
NORTH AMERICAN DATUM OF 1983, MAINLAND ZONE  
(NAD 83 (NA2011) EPOCH 2010.00)



**ZONING:**

ZONE: RURAL RESIDENTIAL R-60

LOT AREA REQUIREMENTS:  
(OTHER PERMITTED PRINCIPLE STRUCTURES):

AREA 60,000 S.F.  
FRONTAGE 200 FT.  
WIDTH 200 FT.

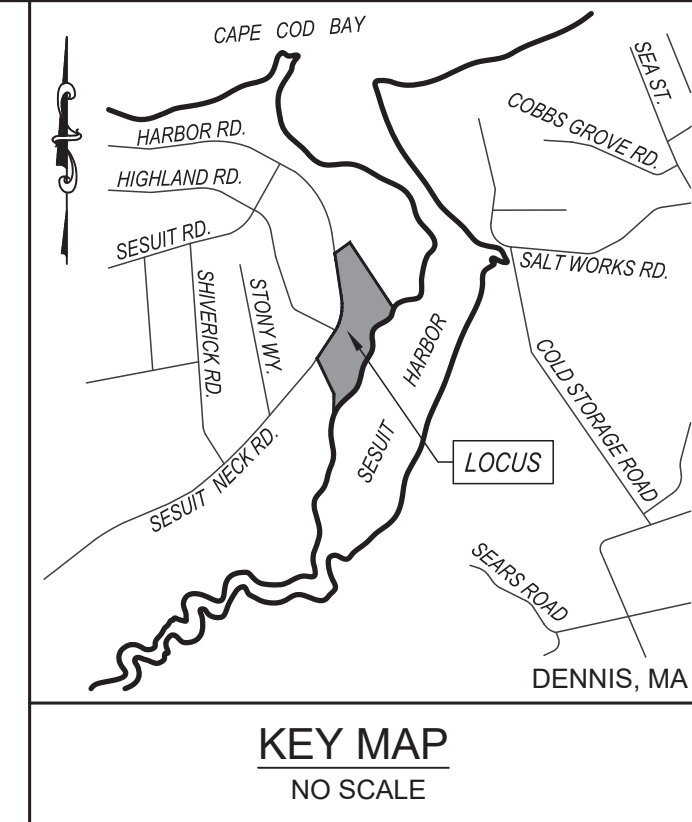
**SETBACKS:**

FRONT 75 FT.  
SIDE 30 FT.  
REAR 30 FT.  
SITE COVERAGE 70%  
HEIGHT (MAXIMUM) 42 FT. OR 3 STORIES

**REFERENCE:**

ASSESSORS MAP 410, PARCEL 23

DEED BOOK 989, PAGE 539  
CERT-DEED #5046  
PLAN BOOK 138 PAGE 123  
PLAN BOOK 159 PAGE 51  
PLAN BOOK 548 PAGE 15



NO.	DATE	REVISION
1	8/24/2021	REMOVE RIVERFRONT BUFFER ZONE

SEAL

PROJECT: CATALYST ARCHITECTURE/INTERIORS  
SEASIT HARBOR WEST MARINA  
DENNIS, MA

SHEET TITLE: 351 SESUIT NECK ROAD  
PLAN SHOWING A PORTION OF EXISTING SITE CONDITIONS

SCALE: AS NOTED

DRAWING FILE: C19676-EXCON.dwg

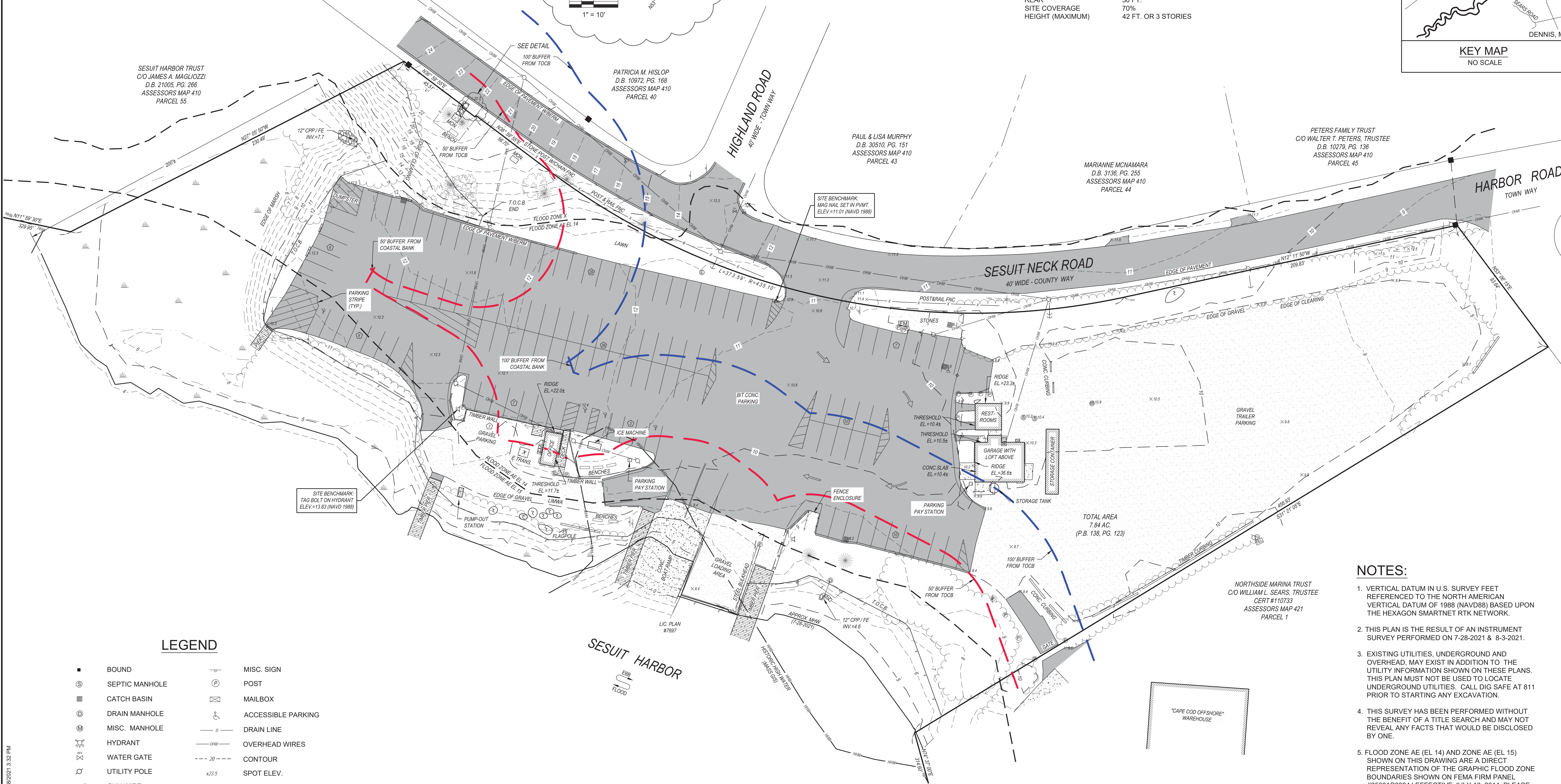
DATE: 08-24-2021

DRAWN BY: JLH/MJB

CHECKED BY: JDM

PROJECT NO.: C19676.00

03 OF 11 SHEETS



**LEGEND**

- |                    |                          |
|--------------------|--------------------------|
| ■ BOUND            | ⊕ MISC. SIGN             |
| ⊙ SEPTIC MANHOLE   | ⊙ POST                   |
| ▤ CATCH BASIN      | ✉ MAILBOX                |
| ⊙ DRAIN MANHOLE    | ♿ ACCESSIBLE PARKING     |
| ⊙ MISC. MANHOLE    | — DRAIN LINE             |
| ⊙ HYDRANT          | — OVERHEAD WIRES         |
| ⊙ WATER GATE       | - - - - - CONTOUR        |
| ⊙ UTILITY POLE     | +23.5 SPOT ELEV.         |
| ⊙ GUY WIRE         | 70CB TOP OF COASTAL BANK |
| ⊙ ELECTRIC METER   | ⊙ BOULDER                |
| ⊙ PULL BOX         | ⊙ PARKING COUNT          |
| ⊙ ELECTRIC MANHOLE | ⊙ CONIFER TREE           |
| ⊙ GAS METER        | ⊙ DECIDUOUS TREE         |
| ⊙ TELEPHONE BOX    |                          |
| ⊙ CABLE BOX        |                          |

**NOTES:**

- VERTICAL DATUM IN U.S. SURVEY FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED UPON THE HEXAGON SMARTNET RTK NETWORK.
- THIS PLAN IS THE RESULT OF AN INSTRUMENT SURVEY PERFORMED ON 7-28-2021 & 8-3-2021.
- EXISTING UTILITIES, UNDERGROUND AND OVERHEAD, MAY EXIST IN ADDITION TO THE UTILITY INFORMATION SHOWN ON THESE PLANS. THIS PLAN MUST NOT BE USED TO LOCATE UNDERGROUND UTILITIES. CALL DIG SAFE AT 811 PRIOR TO STARTING ANY EXCAVATION.
- THIS SURVEY HAS BEEN PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY NOT REVEAL ANY FACTS THAT WOULD BE DISCLOSED BY ONE.
- FLOOD ZONE AE (EL 14) AND ZONE AE (EL 15) SHOWN ON THIS DRAWING ARE A DIRECT REPRESENTATION OF THE GRAPHIC FLOOD ZONE BOUNDARIES SHOWN ON FEMA FIRM PANEL #2500 (C0394J) EFFECTIVE JULY 16, 2014. PLEASE NOTE THAT SITE SPECIFIC FLOODPLAIN BOUNDARIES MAY VARY DUE TO DIFFERENT INTERPRETATIONS OF THESE BOUNDARIES. USERS ARE ADVISED TO VERIFY LOCATION OF THESE BOUNDARIES WITH THE DESIGNATED COMMUNITY FLOODPLAIN MANAGERS AND/OR FEMA PRIOR TO SITING ANY PROPOSED STRUCTURES.
- THIS LIMITED EXISTING CONDITIONS PLAN REPRESENTS THE WEST PARKING LOT AND BOAT RAMP AREA OF THE SESUIT HARBOR MUNICIPAL MARINA AS SHOWN ON PLAN BOOK 138, PAGE 123.

I HEREBY CERTIFY THAT THE CONDITIONS SHOWN HEREON ARE LOCATED AS THEY EXISTED ON THE GROUND AS OF 08-04-2021.

DATE: AUGUST 24, 2021



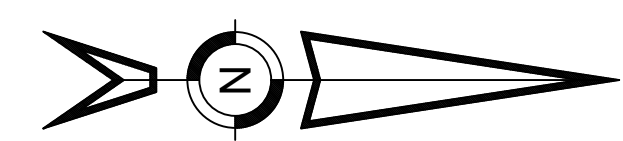
F:\SDSKPROJECTS\190400\C19676\190400-C19676-EXCON.dwg 8/18/2021 3:32 PM

- NOTES:**
- SILTATION BARRIER SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED UNTIL RE-VEGETATION OF AREA DISTURBED BY CONSTRUCTION.
  - AREAS DISTURBED BY CONSTRUCTION SHALL BE RE-VEGETATED PRIOR TO COMPLETION OF PROJECT. SEDIMENT SHALL BE REMOVED FROM BARRIER WHEN DEPTH EXCEEDS 1/3 THE HEIGHT OF THE STRAWBALE.

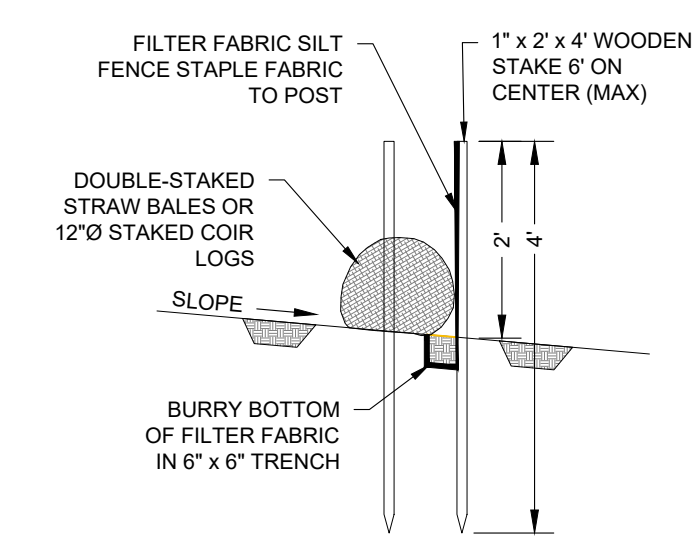
- EXISTING UTILITY NOTES:**
- SEWER - EXISTING SEWAGE DISPOSAL SYSTEM TO BE PUMPED AND REMOVED PER TITLE 5 REGULATIONS.
  - WATER - MAINTAIN AND PROTECT EXISTING WATER SERVICE, HYDRANTS, & ASSOCIATED COMPONENTS AS NOTED FOR RE-USE.
  - ELECTRIC - MAINTAIN AND PROTECT EXISTING ELECTRIC SERVICE AS NOTED FOR RE-USE. REFERENCE ELECTRICAL SITE PLAN FOR ADDITIONAL DETAILS.
  - GAS - MAINTAIN AND PROTECT EXISTING GAS SERVICE FOR RE-USE.

- CONSTRUCTION NOTES:**
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL AND PROTECTION OF DRAINAGE STRUCTURES UNTIL COMPLETION OF SITEWORK AND ESTABLISHMENT OF VEGETATIVE GROUND COVER.
  - THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING MEASURES DURING THE DAY TO DAY OPERATION AT THE SITE. THE SITE SHOULD BE POLICED DAILY TO REMOVE ANY LITTER OR DEBRIS.
  - PRIOR TO CONSTRUCTION, INSTALL PERIMETER CONSTRUCTION FENCE WITH GATES AT DESIGNATED ACCESS POINTS. CONTRACTOR TO CONFIRM GATE LOCATIONS PRIOR TO INSTALLATION.
  - PRIOR TO CONSTRUCTION, INSTALL PERIMETER SEDIMENT BARRIER IN LOCATION(S) SHOWN ON PLAN. SEDIMENT BARRIER TO BE DOUBLE-STAKED STRAW BALES OR 12" STAKED COIR LOGS WITH SILT FENCE.
  - TEMPORARY SOIL MATERIAL STOCKPILES SHALL BE SURROUNDED WITH SILTATION BARRIER ON THE DOWNGRADIENT SIDE TO PREVENT DISCHARGE OF SEDIMENT FROM SITE. MATERIAL STOCKPILES THAT ARE IN PLACE FOR AN EXTENDED PERIOD OF TIME SHALL BE STABILIZED WITH VEGETATION, MULCHING, EROSION CONTROL BLANKETS, AND OTHER MEASURES THAT ARE NECESSARY TO PREVENT THE DISCHARGE OF SEDIMENT FROM THE PROJECT SITE.
  - IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
  - LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
  - EXCEPT AS PROVIDED BELOW, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
    - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
    - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
  - FOR SLOPES LESS THAN OR EQUAL TO 2H:1V, IF EXPOSED SLOPES CAN NOT BE STABILIZED WITH HYDROSEEDING/VEGETATION, NORTH AMERICAN GREEN SC505BN (OR ENGINEERING APPROVED EQUAL) EROSION CONTROL BLANKETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  - FOR SLOPES > 2H:1V, < 1.5H:1V, NORTH AMERICAN GREEN SC 150 BN (OR ENGINEERING APPROVED EQUAL) EROSION CONTROL BLANKETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

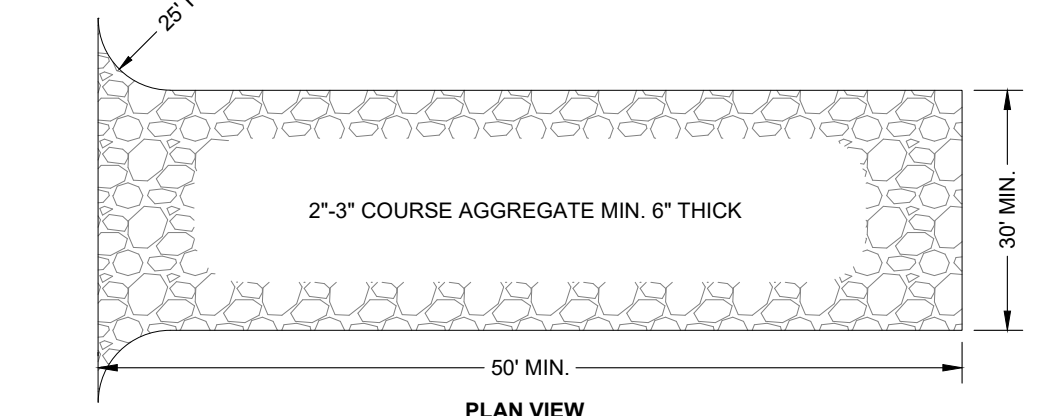
- CONSTRUCTION SEQUENCE - SITE WORK:**
- PRIOR TO SITE DISTURBANCE, CONTRACTOR TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND FILE WITH EPA FOR A NPDES CONSTRUCTION GENERAL PERMIT (CGP). A COPY OF THE SWPPP AND CGP SHALL BE SUBMITTED TO THE DENNIS CONSERVATION DEPARTMENT.
  - CONTRACTOR TO PROVIDE OWNER WITH CONSTRUCTION SEQUENCING PLAN FOR REVIEW AND APPROVAL. CONSTRUCTION SEQUENCE PLAN TO INCLUDE PLANNING MEASURES TO MAINTAIN SAFE AND ADEQUATE ACCESS TO EXISTING BOAT RAMP.
  - 
  - AREA WITHIN LIMIT OF WORK TO BE CLEARED AND GRUBBED. THE CONTRACTOR SHALL EMPLOY DUST CONTROL METHODS AND MATERIALS AT ALL TIMES USING SPRINKLED WATER OR OTHER APPROVED MEANS. DO NOT USE OIL OR SIMILAR PENETRANTS. CHEMICAL MATERIALS MAY NOT BE USED ON SUB-GRADES OF AREAS TO BE SEEDED OR PLANTED.
  - INSTALL PERIMETER CONSTRUCTION FENCE TO SECURE PROJECT SITE. INSTALL SEDIMENTATION BARRIER AS INDICATED ON PLAN AND MAINTAIN STOCKPILE OF ADDITIONAL SEDIMENTATION BARRIER MATERIALS ONSITE FOR USE IN AREAS EXHIBITING NEED FOR ADDITIONAL REINFORCEMENT. PROTECT EXISTING DRAINAGE INLETS WITHIN AND ADJACENT TO CONSTRUCTION AREA AS NOTED. LOCATION OF CONSTRUCTION FENCE TO BE COORDINATED WITH HARBOR MASTER UPON CONSTRUCTION PHASING.
  - INSTALL VEHICLE TRACK PAD AT ENTRANCE.
  - LOCATE AREAS OF MATERIALS STORAGE & STOCKPILE. SURROUND MATERIAL STOCKPILES WITH EROSION CONTROL BARRIER.
  - MAINTAIN EROSION CONTROL BARRIERS, VEHICLE TRACK PAD, AND DRAIN INLET PROTECTION THROUGHOUT CONSTRUCTION.
  - DEMOLISH AND REMOVE EXISTING BUILDINGS, DECKS, ETC.
  - REMOVE PAVEMENT AND ROUGH GRADE SITE.
  - ADHERE TO SWPPP AND INSTALL TEMPORARY CONSTRUCTION PERIOD RUNOFF MANAGEMENT BMP(S) SUCH AS SEDIMENT BASINS & SWALES AS NECESSARY FOR MANAGEMENT OF CONSTRUCTION PERIOD RUNOFF OFFSITE. RUNOFF SHALL NOT BE DIRECTED TOWARD ENVIRONMENTALLY SENSITIVE AREAS (I.E. HARBOR, COASTAL BANK, OR BUFFER TO COASTAL BANK).
  - GRADE PROPOSED DRIVEWAY AND PARKING AREAS.
  - INSTALL STORM WATER MANAGEMENT SYSTEM, AND SITE UTILITIES.
  - INSTALL BUILDING FOUNDATIONS.
  - INSTALL BITUMINOUS CONCRETE BINDER COURSE IN DRIVEWAY AND PARKING AREA.
  - INSTALL CURBING AND SIDEWALKS.
  - STABILIZE & VEGETATE DISTURBED AREAS.



MASSACHUSETTS STATE PLANE COORDINATE SYSTEM  
NORTH AMERICAN DATUM OF 1983, MAINLAND ZONE  
(NAD83 (2011) (MYCS2) EPOCH 2010.00)

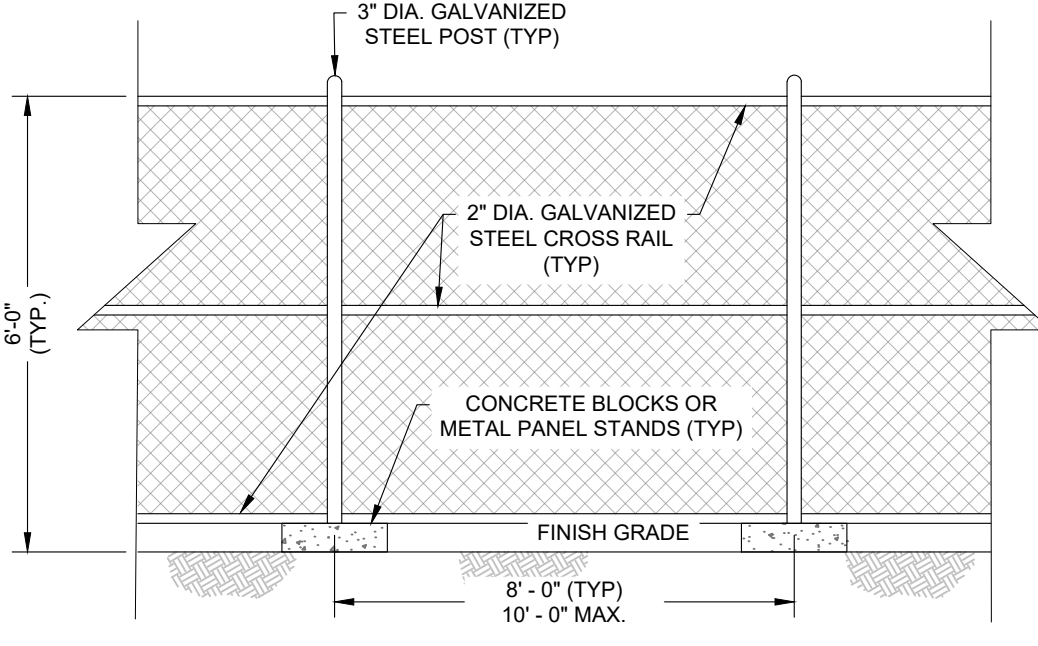


**EROSION CONTROL DETAIL**  
SCALE: N.T.S.

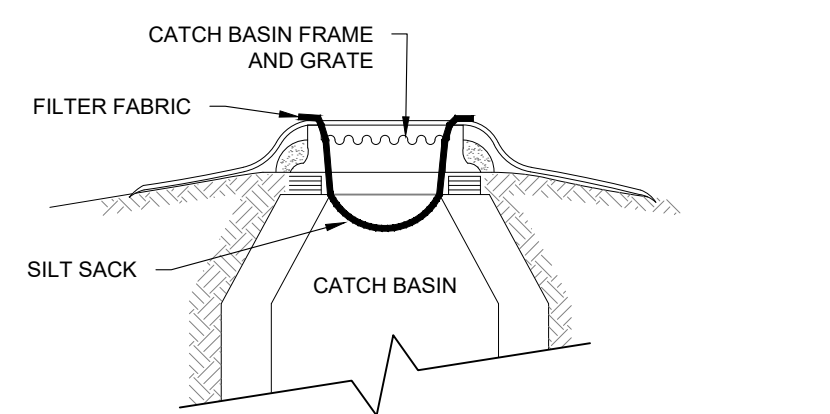


- NOTES:**
- THE LOCATION OF THE STABILIZED CONSTRUCTION ENTRANCE/EXIT TO BE SPECIFIED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

**STABILIZED CONSTRUCTION ENTRANCE DETAIL**  
SCALE: N.T.S.

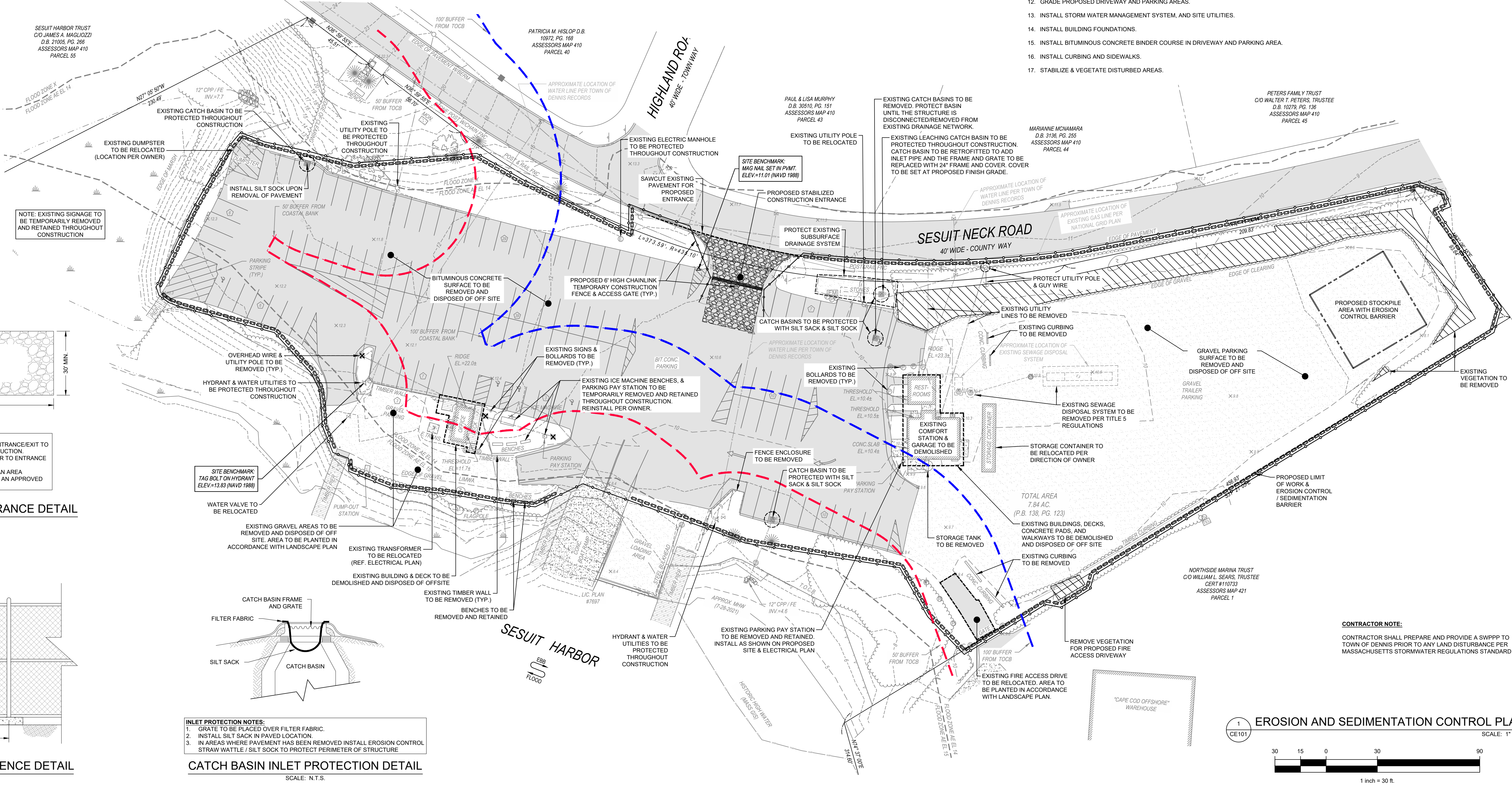


**TEMPORARY CONSTRUCTION FENCE DETAIL**  
SCALE: N.T.S.



- INLET PROTECTION NOTES:**
- GRATE TO BE PLACED OVER FILTER FABRIC.
  - INSTALL SILT SACK IN PAVED LOCATION.
  - IN AREAS WHERE PAVEMENT HAS BEEN REMOVED INSTALL EROSION CONTROL STRAW WATTLE / SILT SOCK TO PROTECT PERIMETER OF STRUCTURE.

**CATCH BASIN INLET PROTECTION DETAIL**  
SCALE: N.T.S.



**1 EROSION AND SEDIMENTATION CONTROL PLAN**  
SCALE: 1" = 30'



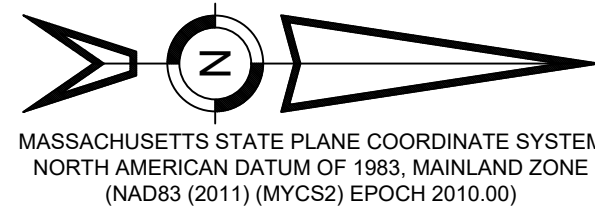
REV	DATE	DESCRIPTION	DWN	CHK

PROJECT/CLIENT NAME  
**CATALYST ARCHITECTURE / INTERIORS**  
**SESUIT HARBOR IMPROVEMENTS**

ADDRESS  
351 SESUIT NECK ROAD  
DENNIS, MA 02660

SEAL  
TARILA L. McGRAL  
CIVIL  
No. 47593  
REGISTERED PROFESSIONAL ENGINEER  
9-2-2025

SHEET DESCRIPTION		SHEET TITLE	
DEMOLITION & EROSION CONTROL PLAN		C-101	
PROJECT STATUS	C19676.00	PROJECT NUMBER	C19676.00
DATE	2025-09-02	DATE	2025-09-02
DRAWN BY	DAP / MDC	CHECKED BY	SMR / TLM
SHEET NUMBER		SHEET 04 OF 11	



**FLOOD ZONE:**

FLOOD ZONE AE (EL 14) AND ZONE AE (EL 15) SHOWN ON THIS DRAWING ARE A DIRECT REPRESENTATION OF THE GRAPHIC FLOOD ZONE BOUNDARIES SHOWN ON FEMA FIRM PANEL #25001C0394J EFFECTIVE JULY 16, 2014. PLEASE NOTE THAT SITE SPECIFIC FLOODPLAIN BOUNDARIES MAY VARY DUE TO DIFFERENT INTERPRETATIONS OF THESE BOUNDARIES. USERS ARE ADVISED TO VERIFY LOCATION OF THESE BOUNDARIES WITH THE DESIGNATED COMMUNITY FLOODPLAIN MANAGERS AND/OR FEMA PRIOR TO SITING ANY PROPOSED STRUCTURES.

0'-50' BUFFER ZONE COVERAGE TABLE			
SUBJECT	EXISTING	PROPOSED	CHANGE
BUILDINGS	110 S.F.	2,306 S.F.	2,196 S.F. INCREASE
HARDSCAPES (PAVEMENT, GRAVEL, DECKS, ETC.)	25,379 S.F.	16,630 S.F.	8,749 S.F. DECREASE
TOTAL COVERAGE (0-50)	25,489 S.F.	18,936 S.F.	6,553 S.F. DECREASE

NOTE:  
3,487 S.F. OF GRAVEL AND PAVED AREAS LOCATED WITHIN 50' BUFFER TO TOP OF COASTAL BANK TO BE RESTORED WITH NATIVE VEGETATION.

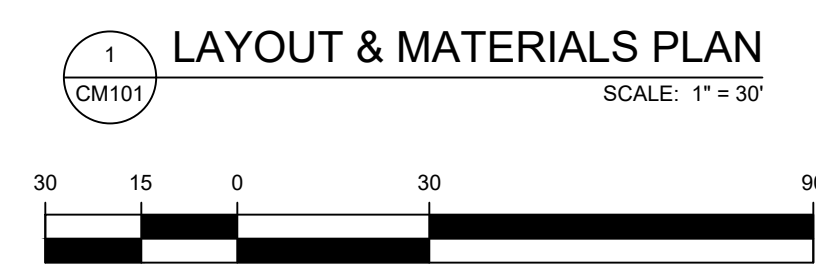
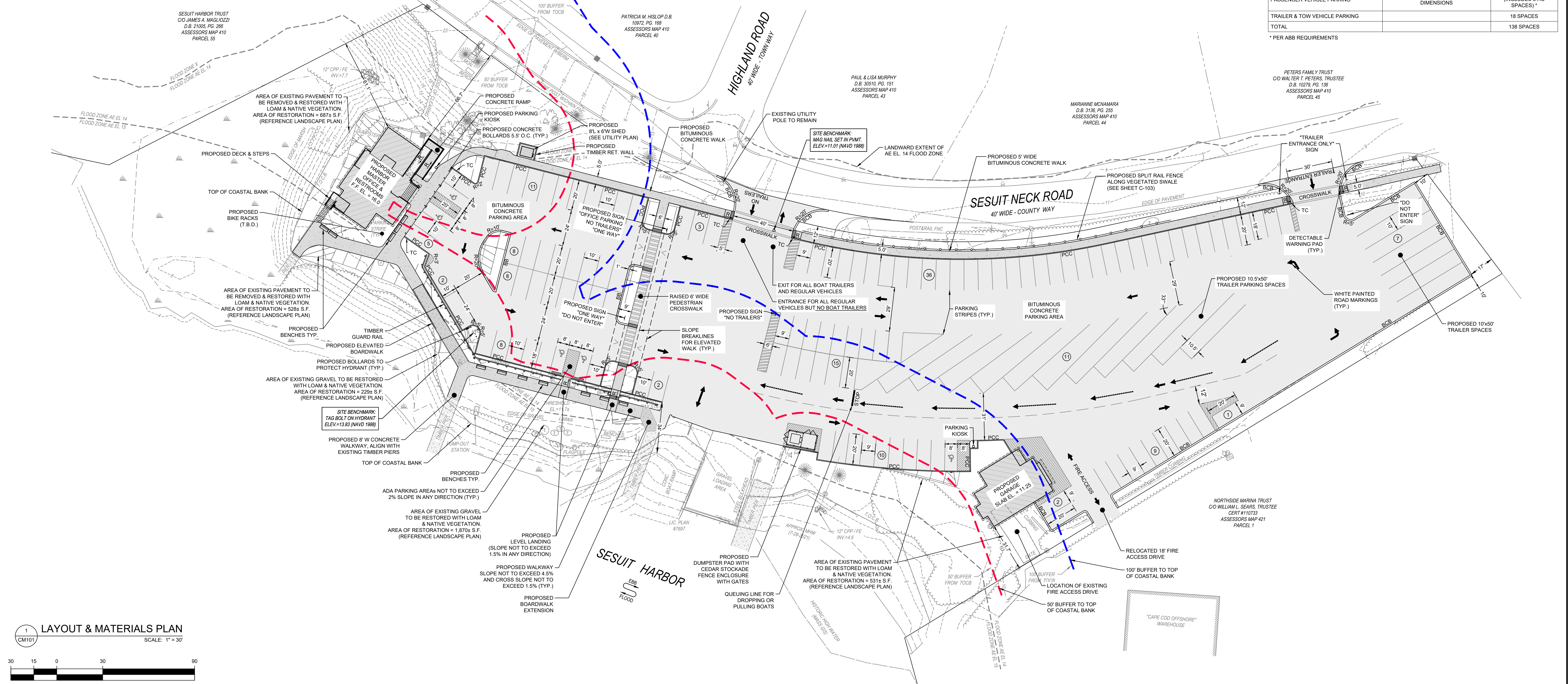
50'-100' BUFFER ZONE COVERAGE TABLE			
SUBJECT	EXISTING	PROPOSED	CHANGE
BUILDINGS	153 S.F.	1,591 S.F.	1,438 S.F. INCREASE
HARDSCAPES (PAVEMENT, GRAVEL, DECKS, ETC.)	23,982 S.F.	21,962 S.F.	2,020 S.F. DECREASE
TOTAL COVERAGE (50-100)	24,135 FT.	23,553 S.F.	582 S.F. DECREASE

ZONING TABLE - RURAL RESIDENTIAL (R-60)			
SUBJECT: ASSESSORS MAP 410, PARCEL 23	REQUIRED	EXISTING	PROPOSED
LOT AREA	60,000 S.F.	341,510 S.F.	NO CHANGE
LOT FRONTAGE	50 FT.	697.6 FT.	NO CHANGE
LOT WIDTH	200 FT.	831.6 FT.	NO CHANGE
FRONT YARD SETBACK	75 FT.	55.5 FT.	66.7 FT.
SIDE YARD SETBACK	30 FT.	242.7 FT.	61.1 FT.
REAR YARD SETBACK	30 FT.	60.3 FT. (TO MHW)	31.7 FT.
MAXIMUM BUILDING HEIGHT	42 FT. OR 3 STORIES	26.5 FT.	SEE ARCH PLANS
MAXIMUM SITE COVERAGE*	15%	0.5%	1.2%
PARKING LOT FRONT SETBACK	20 FT.	10 FT.	12 FT.
PARKING LOT SIDE SETBACK	10 FT.	5 FT.	10 FT.
PARKING LOT REAR SETBACK	10 FT.	29 FT.	34 FT.

\* BUILDING COVERAGE ONLY, EXCLUSIVE OF WETLAND AREA PER TOWN OF DENNIS ZONING BY-LAW SECTION 2.3.2 (WETLAND AREA = 15,980± S.F.)

PARKING TABLE		
USE	EXISTING	PROPOSED
PASSENGER VEHICLE PARKING	113± AS MARKED OR 09± PER ZONING DIMENSIONS	120 SPACES (INCLUDES 5 HC SPACES) †
TRAILER & TOW VEHICLE PARKING		18 SPACES
TOTAL		138 SPACES

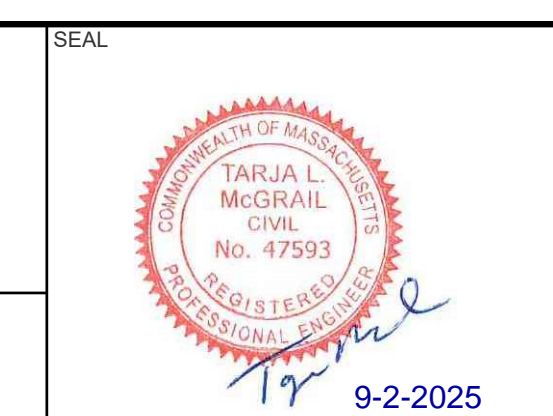
† PER ABB REQUIREMENTS



REV	DATE	DESCRIPTION	DWN	CHK

PROJECT/CLIENT NAME  
**CATALYST ARCHITECTURE / INTERIORS**  
**SESUIT HARBOR IMPROVEMENTS**

ADDRESS  
351 SESUIT NECK ROAD  
DENNIS, MA 02660



SHEET DESCRIPTION		LAYOUT & MATERIALS PLAN	
PROJECT STATUS		SHEET TITLE	<b>C-102</b>
PROJECT NUMBER	C19676.00	SHEET NUMBER	SHEET 05 OF 11
DATE	2025-09-02		
DRAWN BY	DAP / MDC	CHECKED BY	SMR / TLM

DEEP OBSERVATION HOLE LOGS

DATE OF TESTS: 2023-12-05
PERCOLATION RATE: OBSERVATION HOLE #4 PERCOLATION RATE < 2 MIN/INCH

WITNESSED BY: DERECK PACHECO, CEC
GRACE MELLO, HEALTH AGENT
GROUNDWATER ENCOUNTERED IN DOH #1, DOH #2, DOH #3, & DOH #4

Table with 6 columns: DEPTH FROM SURFACE, SOIL HORIZON, SOIL TEXTURE, SOIL COLOR (MUNSELL), SOIL MOTTLING, OTHER. Contains data for DEEP OBSERVATION HOLE 1. EL. = 10.3±.

Table with 6 columns: DEPTH FROM SURFACE, SOIL HORIZON, SOIL TEXTURE, SOIL COLOR (MUNSELL), SOIL MOTTLING, OTHER. Contains data for DEEP OBSERVATION HOLE 2. EL. = 10.1±.

Table with 6 columns: DEPTH FROM SURFACE, SOIL HORIZON, SOIL TEXTURE, SOIL COLOR (MUNSELL), SOIL MOTTLING, OTHER. Contains data for DEEP OBSERVATION HOLE 3. EL. = 11.9±.

Table with 6 columns: DEPTH FROM SURFACE, SOIL HORIZON, SOIL TEXTURE, SOIL COLOR (MUNSELL), SOIL MOTTLING, OTHER. Contains data for DEEP OBSERVATION HOLE 4. EL. = 12.6±.

Table with 6 columns: DEPTH FROM SURFACE, SOIL HORIZON, SOIL TEXTURE, SOIL COLOR (MUNSELL), SOIL MOTTLING, OTHER. Contains data for DEEP OBSERVATION HOLE 5. EL. = 9.7±.

Table with 6 columns: DEPTH FROM SURFACE, SOIL HORIZON, SOIL TEXTURE, SOIL COLOR (MUNSELL), SOIL MOTTLING, OTHER. Contains data for DEEP OBSERVATION HOLE 6. EL. = 9.8±.

PERC TEST PERFORMED AT 78"

GW OBSERVED AT 120"

GW OBSERVED AT 77" (EL.=3.3±)

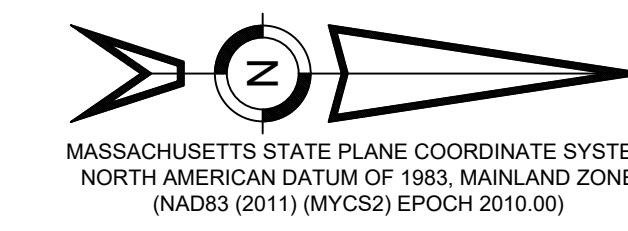
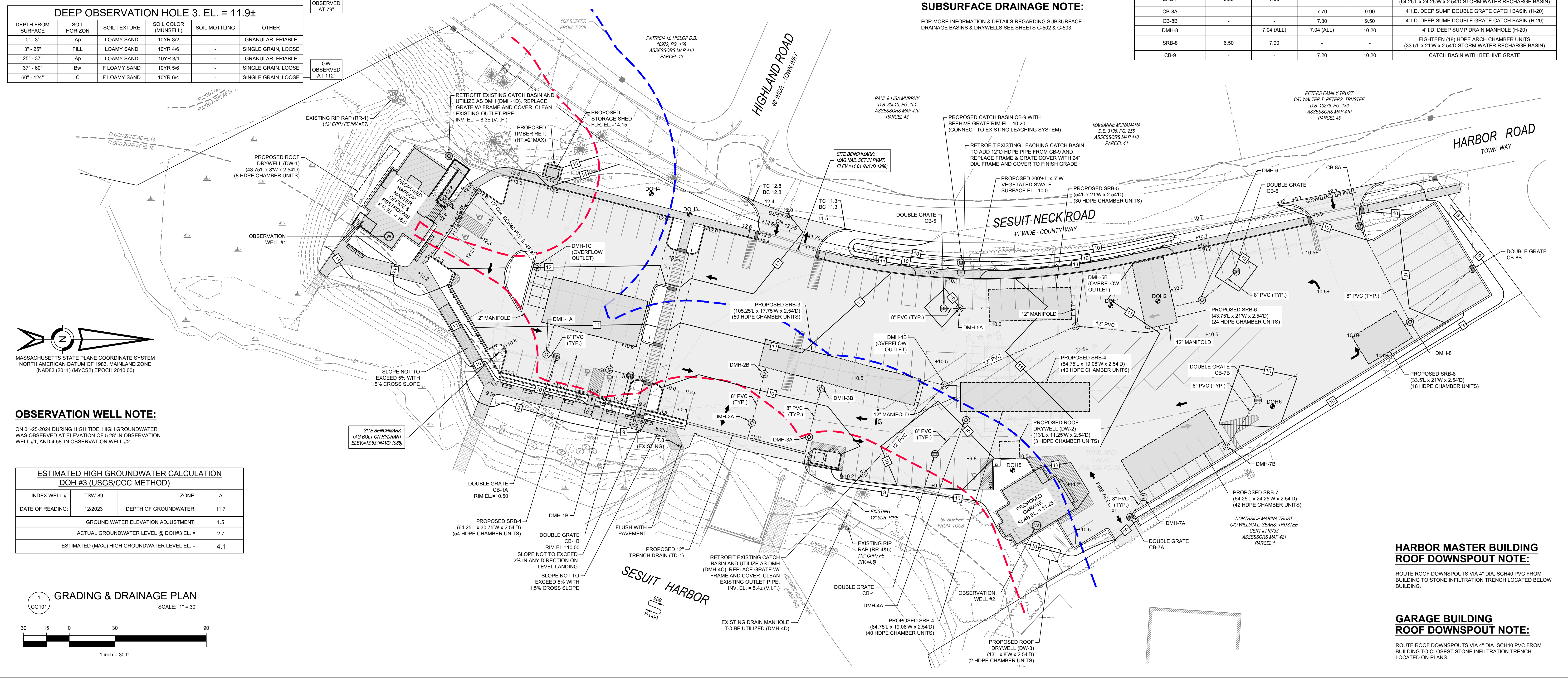
NO GW ENCOUNTERED

Table with 6 columns: STRUCTURE, BOTTOM EL., INV. IN EL., INV. OUT EL., RIM EL., DESCRIPTION. Contains data for DRAINAGE STRUCTURE ELEVATION SCHEDULE.

Table with 6 columns: STRUCTURE, BOTTOM EL., INV. IN EL., INV. OUT EL., RIM EL., DESCRIPTION. Contains data for DRAINAGE STRUCTURE ELEVATION SCHEDULE CONT.

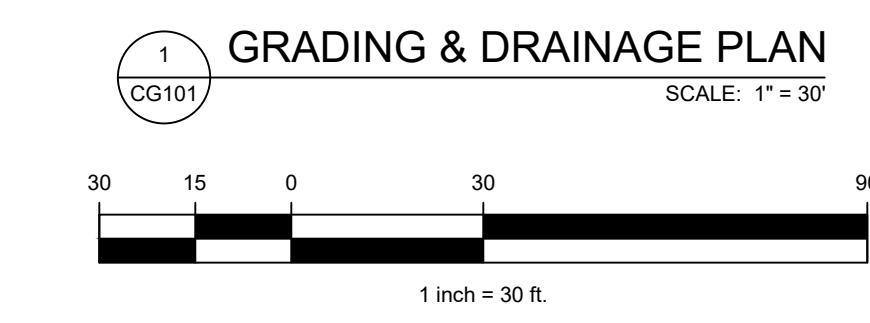
SUBSURFACE DRAINAGE NOTE:

FOR MORE INFORMATION & DETAILS REGARDING SUBSURFACE DRAINAGE BASINS & DRYWELLS SEE SHEETS C-502 & C-503.



OBSERVATION WELL NOTE: ON 01-25-2024 DURING HIGH TIDE, HIGH GROUNDWATER WAS OBSERVED AT ELEVATION OF 5.28' IN OBSERVATION WELL #1, AND 4.58' IN OBSERVATION WELL #2.

ESTIMATED HIGH GROUNDWATER CALCULATION DOH #3 (USGS/CCC METHOD). Table with 4 columns: INDEX WELL #, TSW-89, ZONE, A. Includes data for DATE OF READING, DEPTH OF GROUNDWATER, GROUND WATER ELEVATION ADJUSTMENT, ACTUAL GROUNDWATER LEVEL @ DOH#3 EL., and ESTIMATED (MAX.) HIGH GROUNDWATER LEVEL EL.



Project information block containing: PROJECT/CLIENT NAME (CATALYST ARCHITECTURE / INTERIORS SESUIT HARBOR IMPROVEMENTS), ADDRESS (351 SESUIT NECK ROAD DENNIS, MA 02660), SHEET DESCRIPTION (GRADING & DRAINAGE PLAN), SHEET TITLE (C-103), SHEET NUMBER (SHEET 06 OF 11), and a professional seal for TAJIA L. MCGRAIL, CIVIL ENGINEER, No. 47993, REGISTERED PROFESSIONAL ENGINEER, State of Massachusetts, dated 9-2-2025.



Revision table with columns: REV, DATE, DESCRIPTION, DWN, CHK.

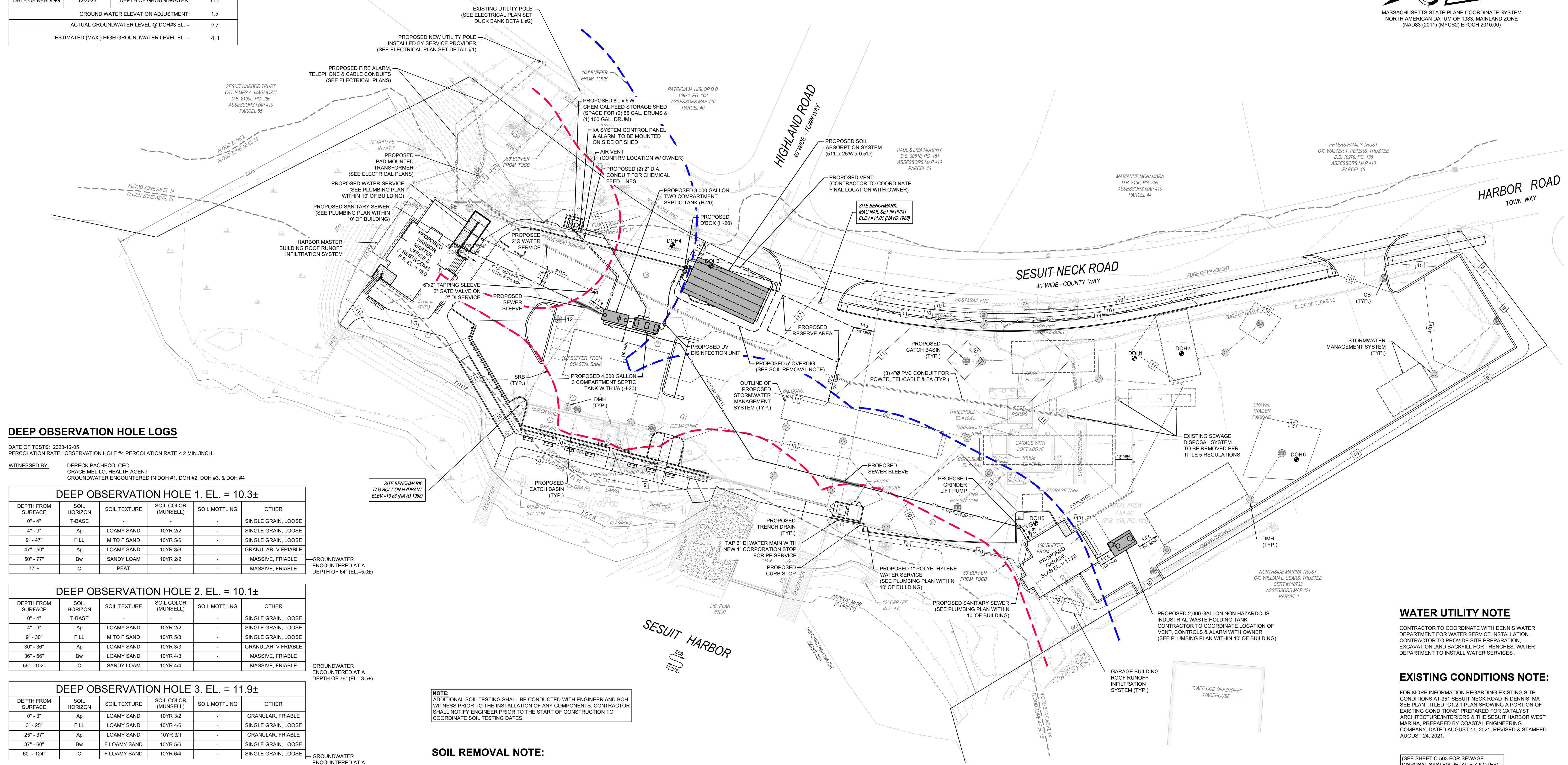
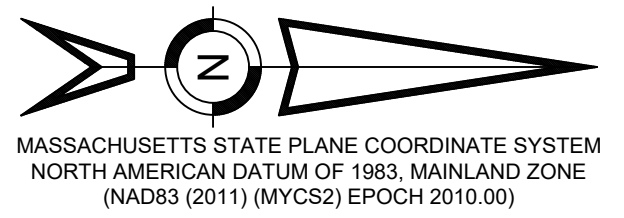
PROJECT/CLIENT NAME: CATALYST ARCHITECTURE / INTERIORS
ADDRESS: 351 SESUIT NECK ROAD DENNIS, MA 02660



Table with columns: PROJECT STATUS, PROJECT NUMBER (C19676.00), DATE (2025-09-02), DRAWN BY (DAP / MDC), CHECKED BY (SMR / TLM), SHEET TITLE (GRADING & DRAINAGE PLAN), SHEET NUMBER (SHEET 06 OF 11).



ESTIMATED HIGH GROUNDWATER CALCULATION (USGS/CCC METHOD)			
INDEX WELL #:	TSW-89	ZONE:	A
DATE OF READING:	12/2023	DEPTH OF GROUNDWATER:	11.7
GROUND WATER ELEVATION ADJUSTMENT:		1.5	
ACTUAL GROUNDWATER LEVEL @ DOH#3 EL. =		2.7	
ESTIMATED (MAX.) HIGH GROUNDWATER LEVEL EL. =		4.1	



**DEEP OBSERVATION HOLE LOGS**

DATE OF TESTS: 2023-12-05  
 PERCOLATION RATE: OBSERVATION HOLE #4 PERCOLATION RATE < 2 MIN/INCH  
 WITNESSED BY: DERECK PACHECO, CEC  
 GRACE MELLO, HEALTH AGENT  
 GROUNDWATER ENCOUNTERED IN DOH #1, DOH #2, DOH #3, & DOH #4

**DEEP OBSERVATION HOLE 1. EL. = 10.3±**

DEPTH FROM SURFACE	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0" - 4"	T-BASE	-	-	-	SINGLE GRAIN, LOOSE
4" - 9"	Ap	LOAMY SAND	10YR 2/2	-	SINGLE GRAIN, LOOSE
9" - 47"	FILL	M TO F SAND	10YR 5/6	-	SINGLE GRAIN, LOOSE
47" - 50"	Ap	LOAMY SAND	10YR 3/3	-	GRANULAR, V FRIABLE
50" - 77"	Bw	SANDY LOAM	10YR 2/2	-	MASSIVE, FRIABLE
77" +	C	PEAT	-	-	MASSIVE, FRIABLE

GROUNDWATER ENCOUNTERED AT A DEPTH OF 64" (EL.=5.0±)

**DEEP OBSERVATION HOLE 2. EL. = 10.1±**

DEPTH FROM SURFACE	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0" - 4"	T-BASE	-	-	-	SINGLE GRAIN, LOOSE
4" - 9"	Ap	LOAMY SAND	10YR 2/2	-	SINGLE GRAIN, LOOSE
9" - 30"	FILL	M TO F SAND	10YR 5/3	-	SINGLE GRAIN, LOOSE
30" - 36"	Ap	LOAMY SAND	10YR 3/3	-	GRANULAR, V FRIABLE
36" - 56"	Bw	LOAMY SAND	10YR 4/3	-	MASSIVE, FRIABLE
56" - 102"	C	SANDY LOAM	10YR 4/4	-	MASSIVE, FRIABLE

GROUNDWATER ENCOUNTERED AT A DEPTH OF 79" (EL.=3.5±)

**DEEP OBSERVATION HOLE 3. EL. = 11.9±**

DEPTH FROM SURFACE	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0" - 3"	Ap	LOAMY SAND	10YR 3/2	-	GRANULAR, FRIABLE
3" - 25"	FILL	LOAMY SAND	10YR 4/6	-	SINGLE GRAIN, LOOSE
25" - 37"	Ap	LOAMY SAND	10YR 3/1	-	GRANULAR, FRIABLE
37" - 60"	Bw	F LOAMY SAND	10YR 5/6	-	SINGLE GRAIN, LOOSE
60" - 124"	C	F LOAMY SAND	10YR 6/4	-	SINGLE GRAIN, LOOSE

GROUNDWATER ENCOUNTERED AT A DEPTH OF 112" (EL.=2.7±)

**DEEP OBSERVATION HOLE 4. EL. = 12.6±**

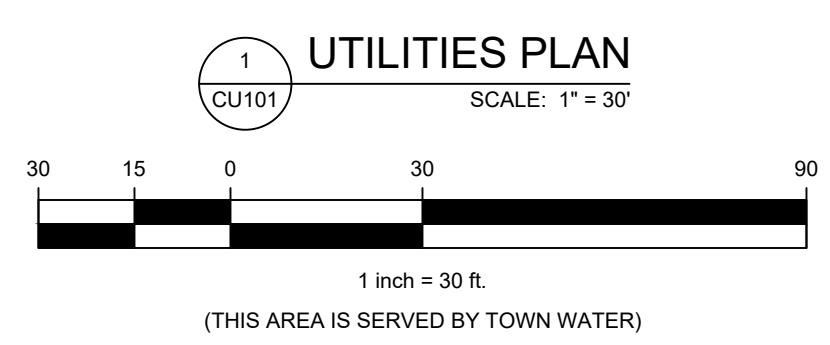
DEPTH FROM SURFACE	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0" - 10"	FILL	LOAMY SAND	10YR 4/2	-	SINGLE GRAIN, LOOSE
10" - 24"	Ap	LOAMY SAND	10YR 4/3	-	SINGLE GRAIN, LOOSE
24" - 65"	Bw	LOAMY SAND	10YR 5/6	-	SINGLE GRAIN, LOOSE
65" - 132"	C	FINE LOAMY SAND	10YR 6/2	-	SINGLE GRAIN, LOOSE

PERC. @ 78" (EL.=6.1±)  
 GROUNDWATER ENCOUNTERED AT A DEPTH OF 120" (EL.=2.6±)

**NOTE:**  
 ADDITIONAL SOIL TESTING SHALL BE CONDUCTED WITH ENGINEER AND BOH WITNESS PRIOR TO THE INSTALLATION OF ANY COMPONENTS. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO THE START OF CONSTRUCTION TO COORDINATE SOIL TESTING DATES.

**SOIL REMOVAL NOTE:**  
 REMOVE TOPSOIL AND UNSUITABLE MATERIAL WITHIN 5' OF LEACHING FIELD DOWN TO "C" HORIZON AND REPLACE WITH SAND FILL IN ACCORDANCE WITH NOTE #10. CONTRACTOR SHALL PERFORM ADDITIONAL TEST HOLES TO CONFIRM THE EXTENT OF SOIL REMOVAL (SEE CONTRACTOR NOTE). SOILS MUST BE INSPECTED BY ENGINEER AND HEALTH DEPARTMENT PRIOR TO INSTALLATION.

**CONTRACTOR NOTE:**  
 CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO START OF WORK TO SCHEDULE ADDITIONAL TEST HOLES IN LOCATION OF SOIL ABSORPTION SYSTEM.



**WATER UTILITY NOTE**  
 CONTRACTOR TO COORDINATE WITH DENNIS WATER DEPARTMENT FOR WATER SERVICE INSTALLATION. CONTRACTOR TO PROVIDE SITE PREPARATION, EXCAVATION AND BACKFILL FOR TRENCHES. WATER DEPARTMENT TO INSTALL WATER SERVICES.

**EXISTING CONDITIONS NOTE:**  
 FOR MORE INFORMATION REGARDING EXISTING SITE CONDITIONS AT 351 SESUIT NECK ROAD IN DENNIS, MA SEE PLAN TITLED "C1-2.1 PLAN SHOWING A PORTION OF EXISTING CONDITIONS" PREPARED FOR CATALYST ARCHITECTURE/INTERIORS & THE SESUIT HARBOR WEST MARINA. PREPARED BY COASTAL ENGINEERING COMPANY, DATED AUGUST 11, 2021, REVISED & STAMPED AUGUST 24, 2021.

(SEE SHEET C-503 FOR SEWAGE DISPOSAL SYSTEM DETAILS & NOTES)

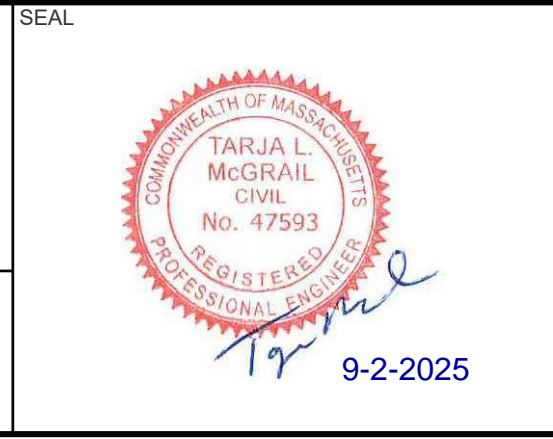
**UTILITY NOTES:**  
 - ALL EXISTING UTILITY LINES (GAS, WATER, ELECTRIC) WERE OBTAINED VIA RECORDS OF THE TOWN OF DENNIS. ALL LOCATIONS SHALL BE CONSIDERED APPROXIMATE.  
 - PROPOSED ELECTRIC, GAS, AND WATER SERVICE LOCATIONS TO BE COORDINATED WITH BUILDING MEP CONSTRUCTION PLANS AND UTILITY PROVIDERS PRIOR TO CONSTRUCTION.



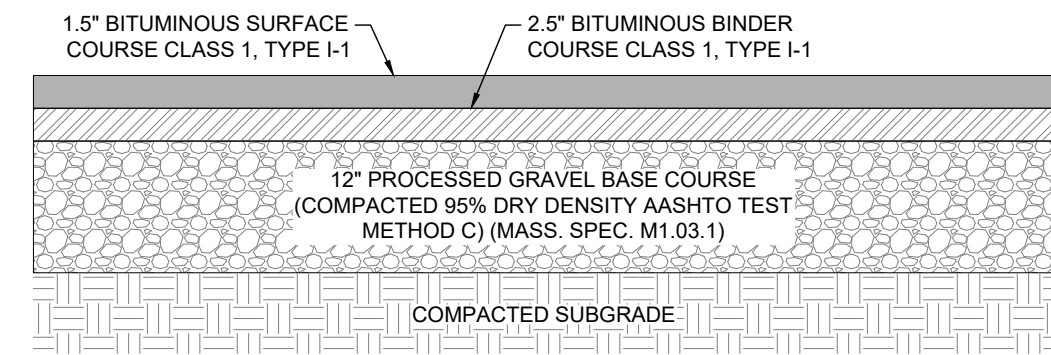
REV	DATE	DESCRIPTION	DWN	CHK

PROJECT/CLIENT NAME  
**CATALYST ARCHITECTURE / INTERIORS**  
**SESUIT HARBOR IMPROVEMENTS**

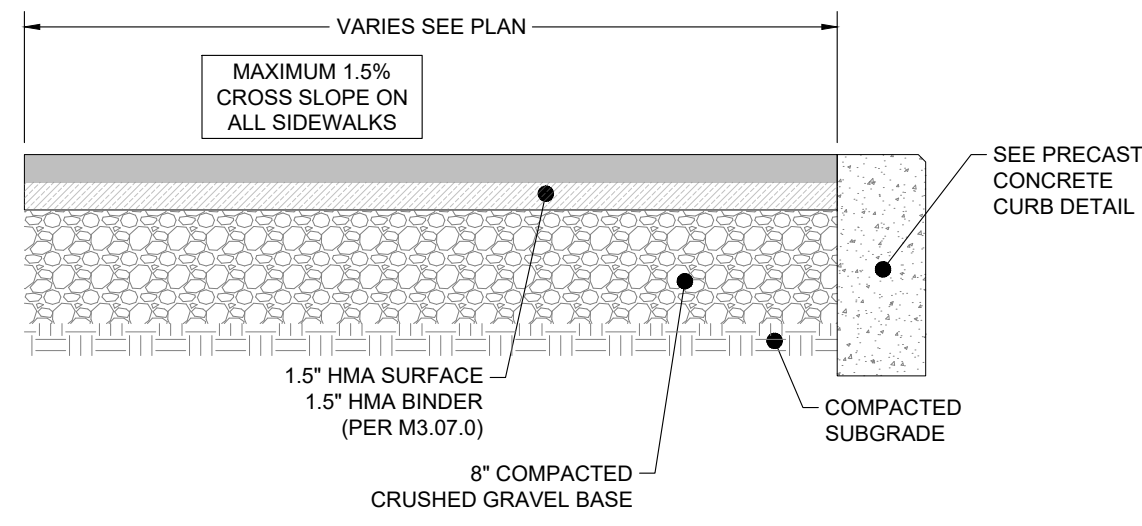
ADDRESS  
 351 SESUIT NECK ROAD  
 DENNIS, MA 02660



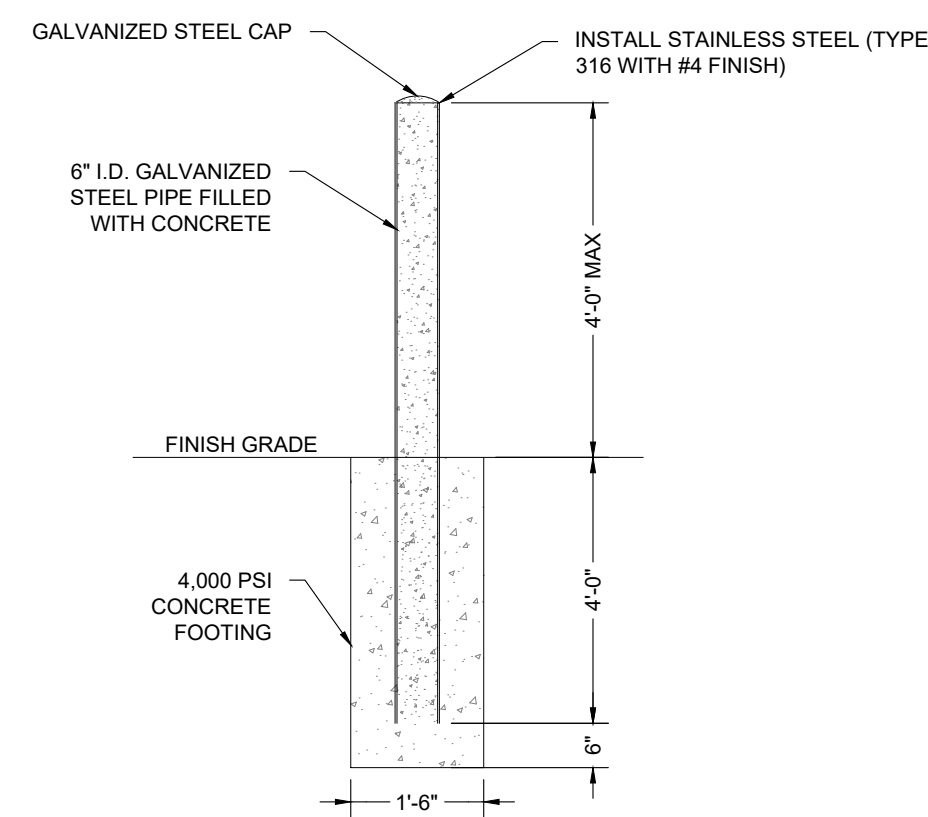
SHEET DESCRIPTION		UTILITIES PLAN	
PROJECT STATUS		SHEET TITLE	
PROJECT NUMBER	C19676.00	SHEET NUMBER	<b>C-104</b>
DATE	2025-09-02	SHEET OF	07 OF 11
DRAWN BY	DAP / MDC	CHECKED BY	SMR / TLM



**BITUMINOUS CONCRETE PARKING SECTION**  
SCALE: N.T.S.

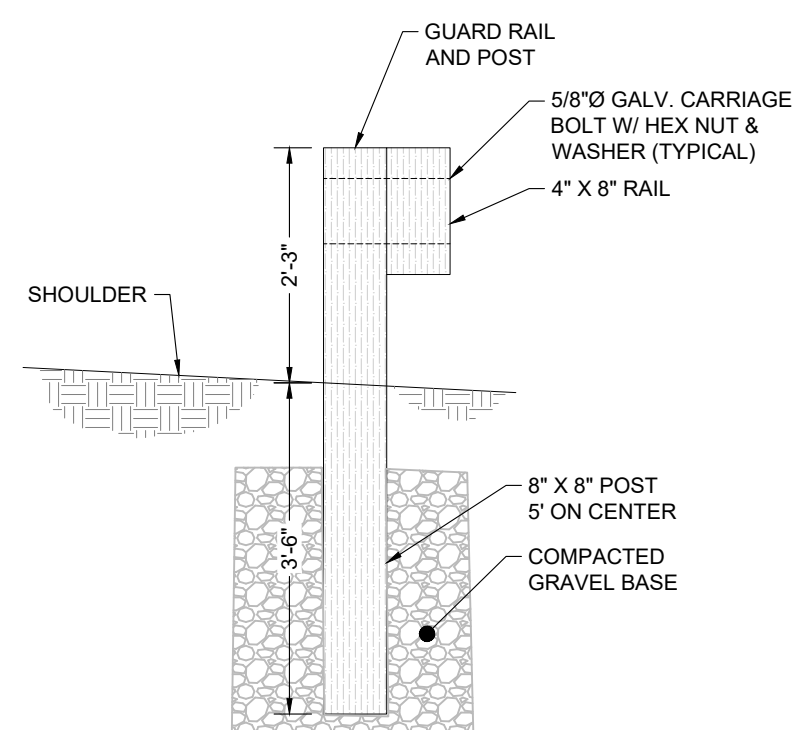


**BITUMINOUS CONCRETE WALKWAY WITH CURB**  
SCALE: N.T.S.

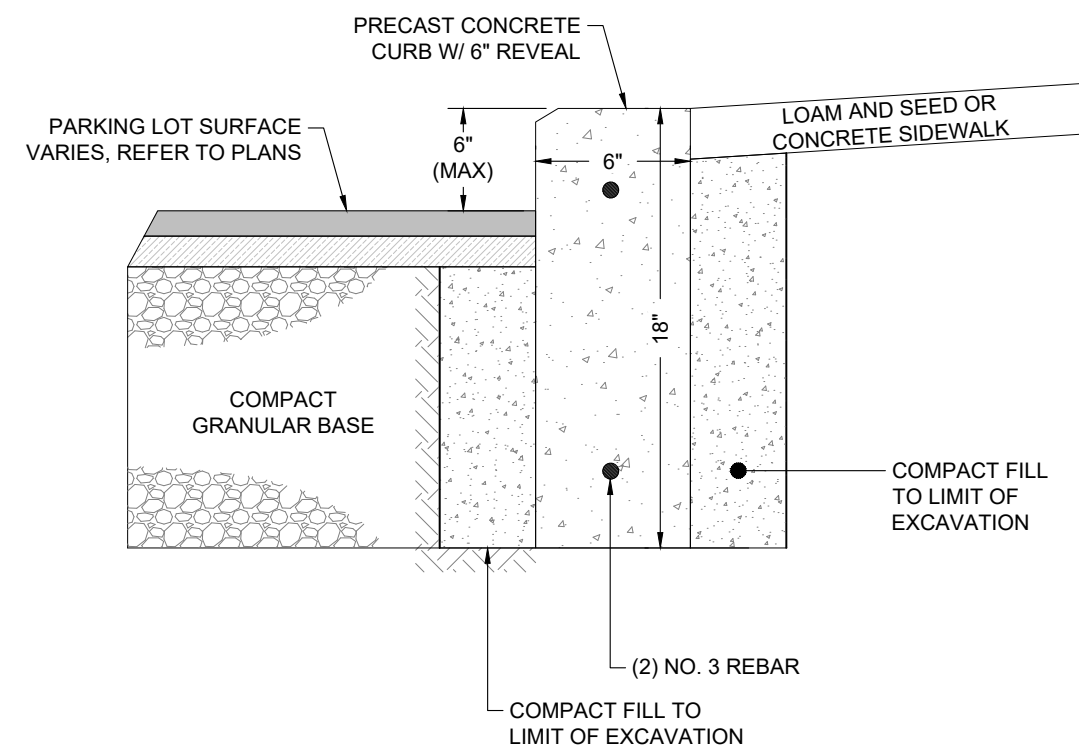


**CONCRETE FILLED BOLLARD (TRASH ENCLOSURE)**  
SCALE: N.T.S.

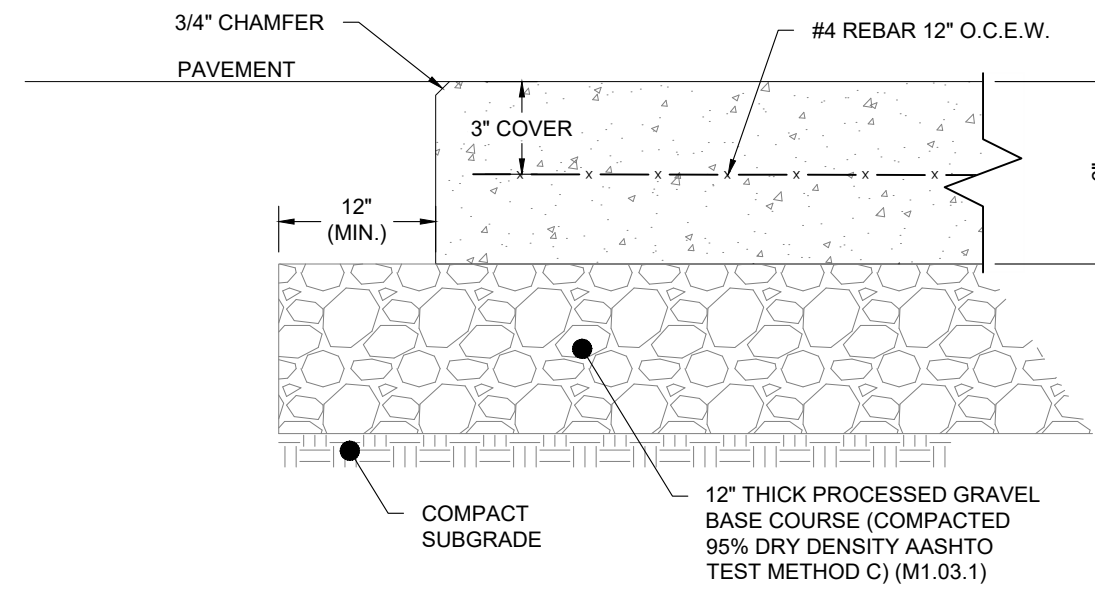
- NOTES:**
- TIMBER RAILS, BLOCKING, AND POSTS SHALL BE CCA (RETENTION VALUE OF 0.60 PCF MINIMUM) PRESSURE TREATED SOUTHERN YELLOW PINE AS SPECIFIED IN SECTION 955.40 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS. ALL TIMBER COMPONENTS SHALL BE STRAIGHT AND TRUE WITHOUT DEFECTS. TIMBER RAILS SHALL HAVE A 1/2" CHAMFER ON ALL CORNERS INCLUDING ENDS.
  - GALVANIZED NUTS SHALL CONFORM TO ASTM A563, GRADE A, AND GALVANIZED BOLTS SHALL CONFORM TO ASTM A307, GRADE A. GALVANIZED STEEL BACKING PLATES AND SPLICE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36.



**TIMBER GUARDRAIL SECTION**  
SCALE: N.T.S.

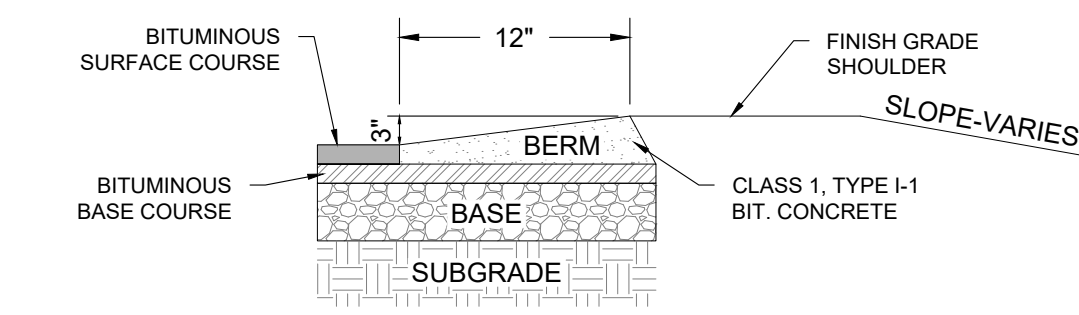


**PRECAST CONCRETE CURB**  
SCALE: N.T.S.

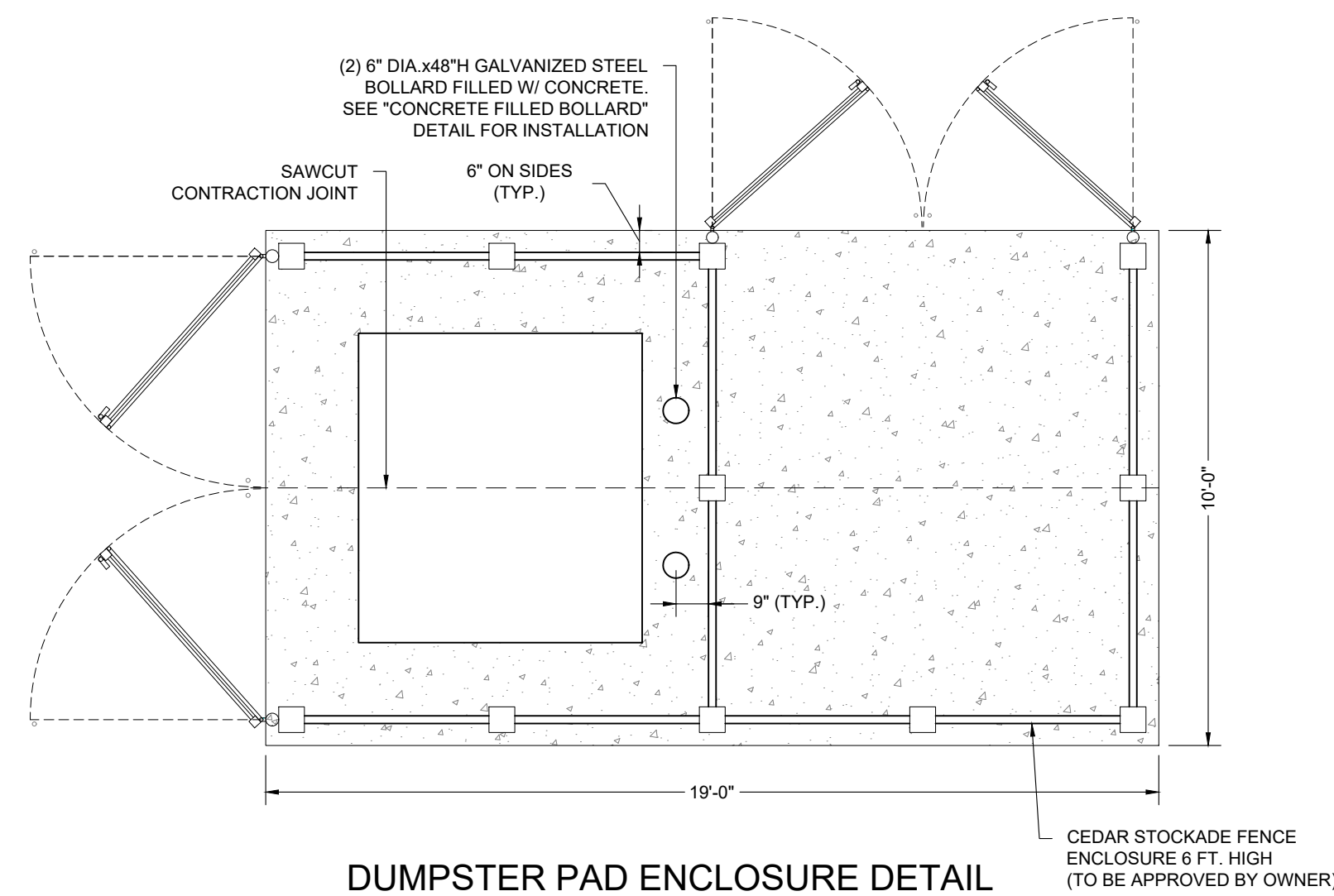


- DUMPSTER PAD NOTES:**
- ALL CONCRETE SHALL BE 4,000 PSI WITH MAXIMUM WATER CONTENT RATIO OF 0.45 AND AIR ENTRAINMENT.
  - CONTRACTOR SHALL TAKE GREAT CARE WHEN INSTALLING ADJACENT TO LEACH FIELD. CONTRACTOR SHALL NOT DAMAGE LEACH FIELD.

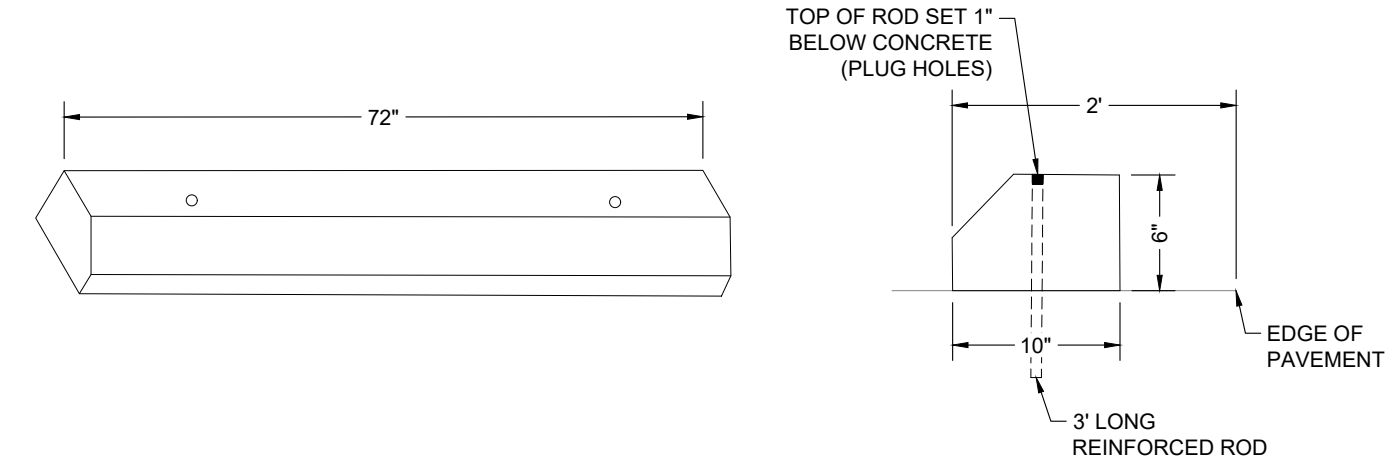
**DUMPSTER PAD DETAIL**  
SCALE: N.T.S.



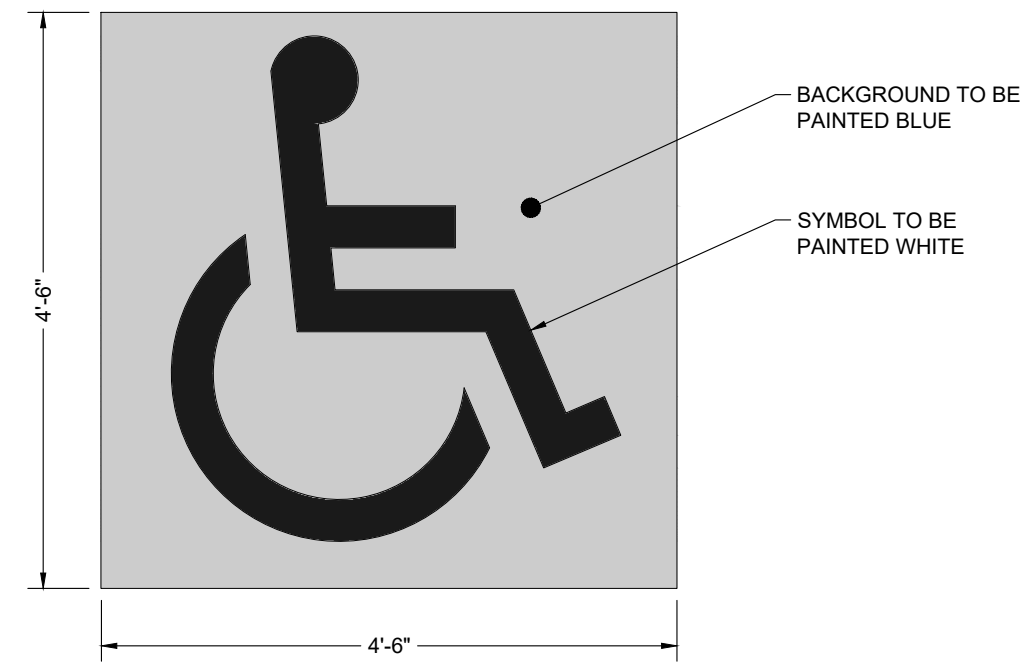
**BITUMINOUS BERM (BCB) (AKA CAPE COD BERM)**  
SCALE: N.T.S.



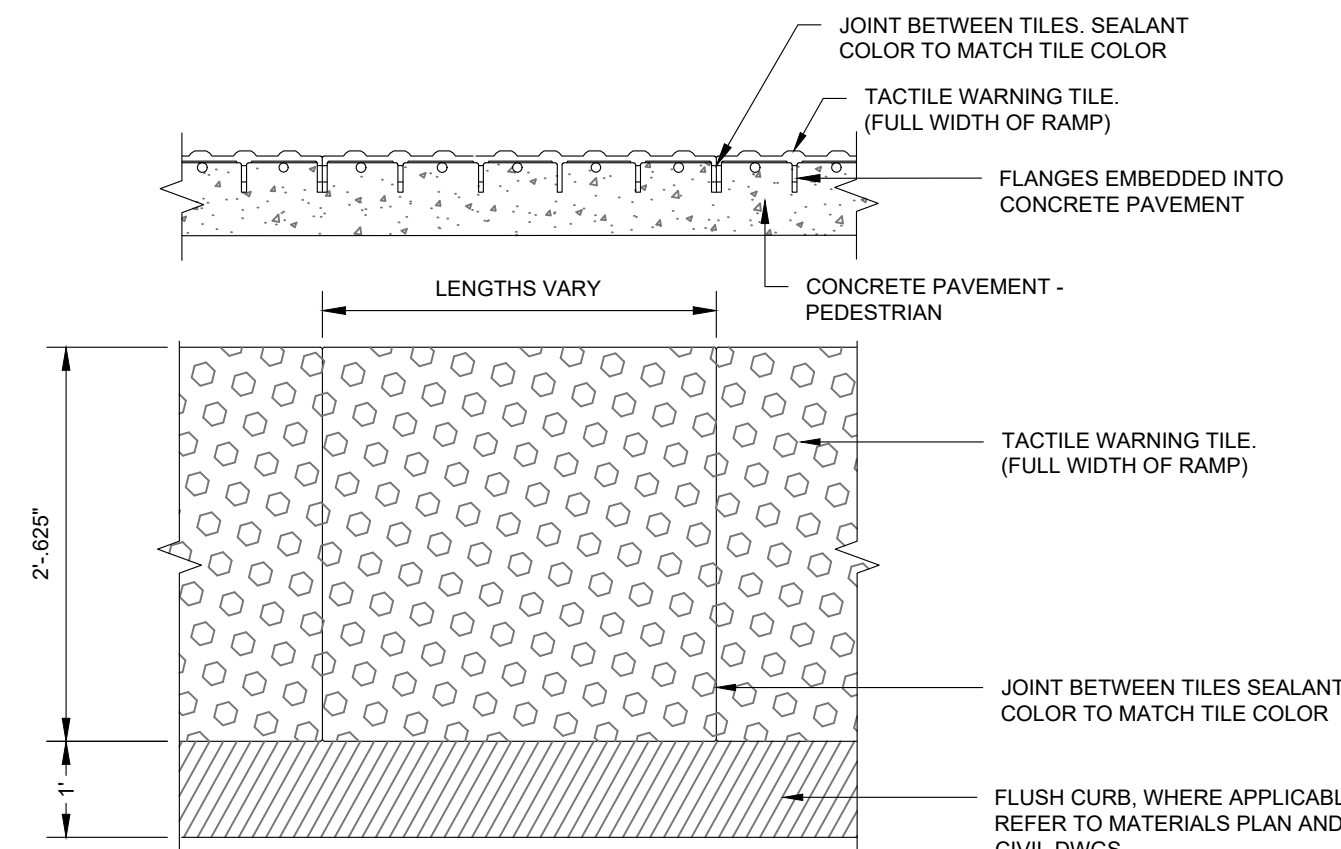
**DUMPSTER PAD ENCLOSURE DETAIL**  
SCALE: N.T.S.



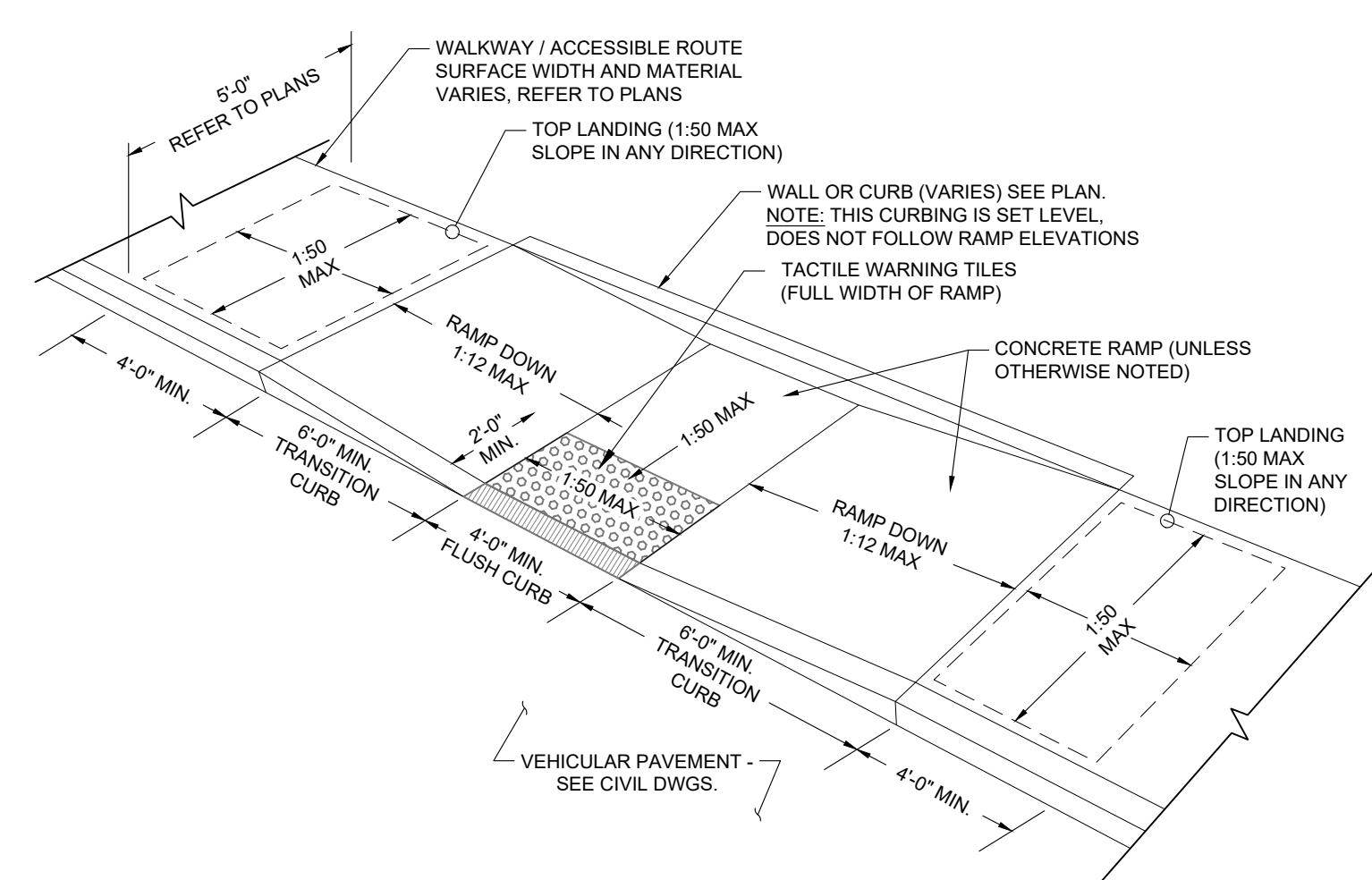
**CONCRETE WHEELSTOP DETAIL**  
SCALE: N.T.S.



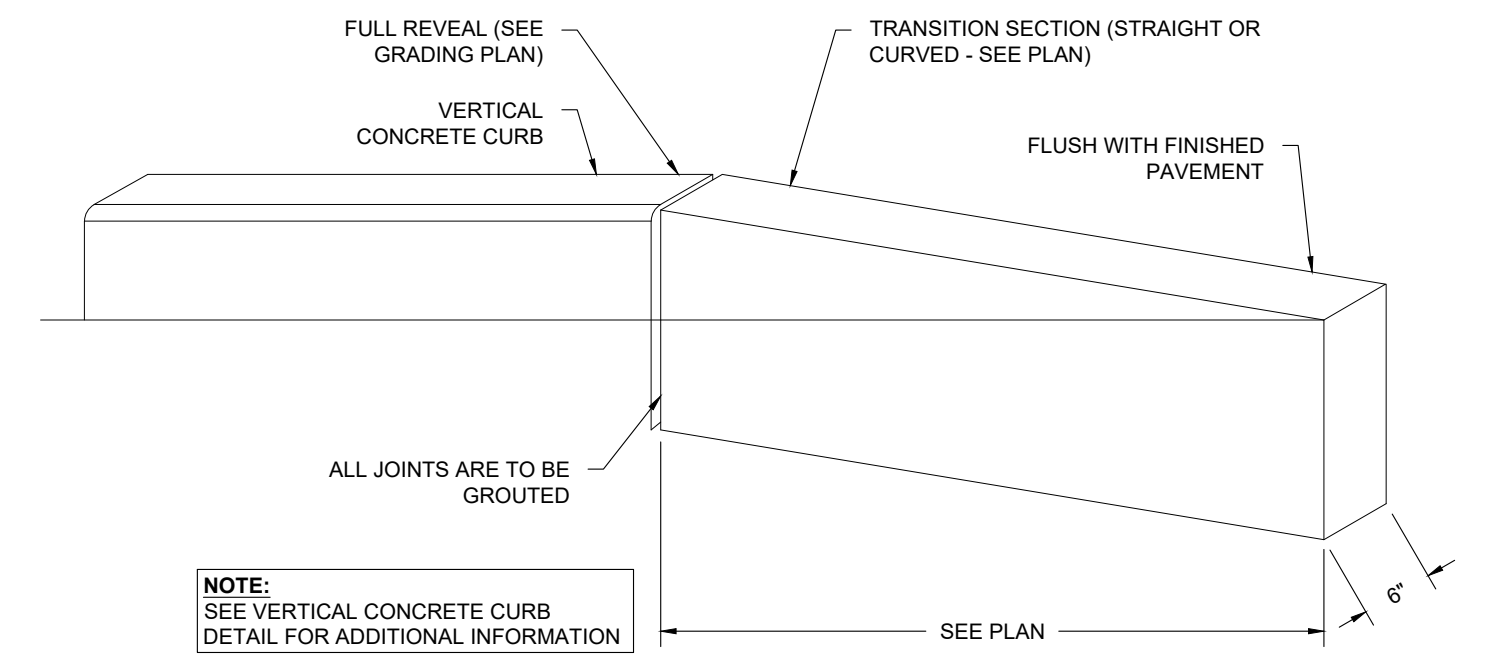
**PAINTED SYMBOL OF ACCESSIBILITY**  
SCALE: N.T.S.



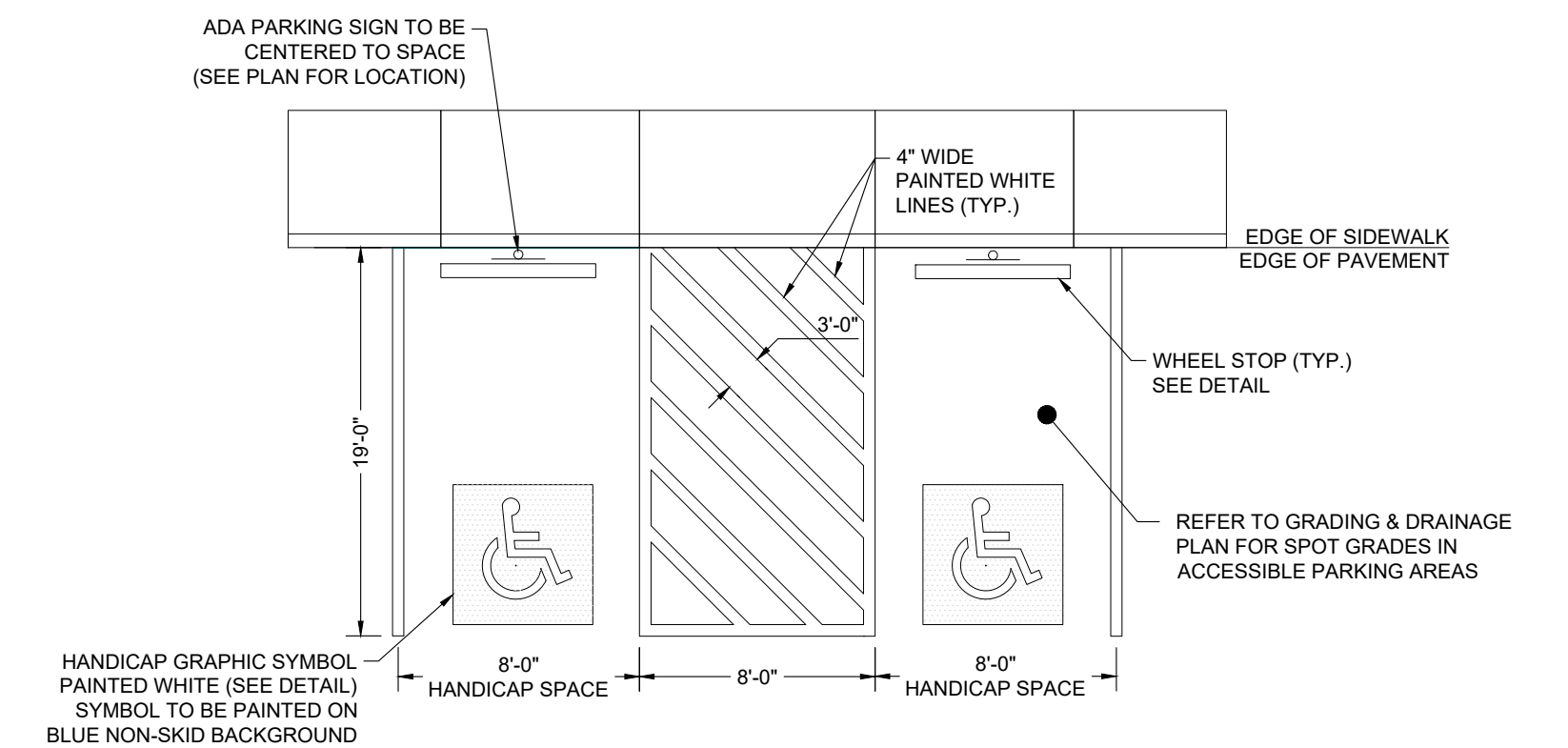
**TACTILE WARNING TILES**  
SCALE: N.T.S.



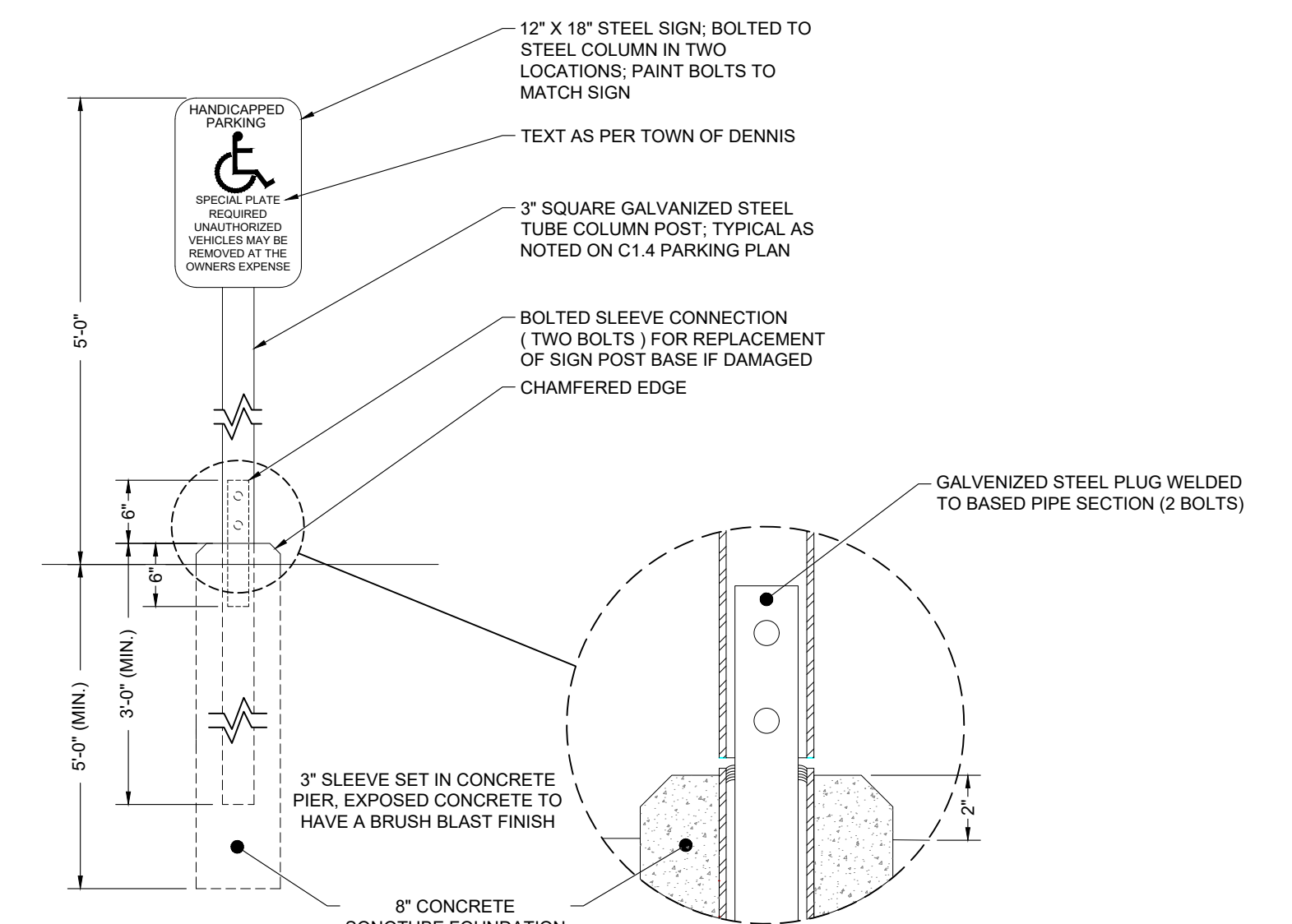
**CURB CUT RAMP TYPE 2**  
SCALE: N.T.S.



**TRANSITION CURB DETAIL**  
SCALE: N.T.S.



**HANDICAP SPACE STRIPING**  
SCALE: N.T.S.



**SYMBOL OF ACCESSIBILITY SIGN**  
SCALE: N.T.S.



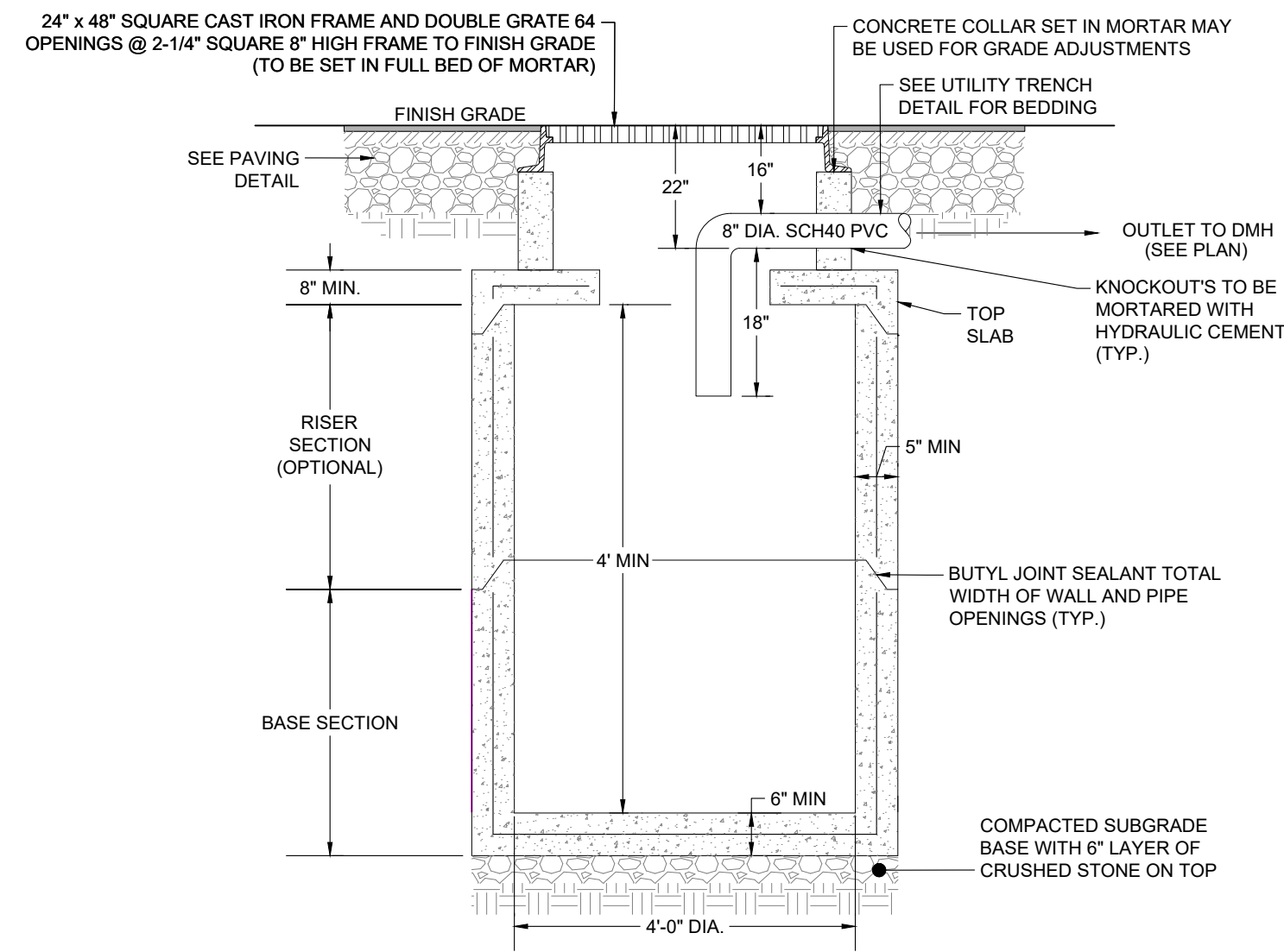
REV	DATE	DESCRIPTION	DWN	CHK

PROJECT/CLIENT NAME  
**CATALYST ARCHITECTURE / INTERIORS**  
**SESUIT HARBOR IMPROVEMENTS**

ADDRESS  
351 SESUIT NECK ROAD  
DENNIS, MA 02660

SEAL  
TARJA L. McGRAIL  
CIVIL  
No. 47593  
REGISTERED PROFESSIONAL ENGINEER  
9-2-2025

SHEET DESCRIPTION		SITE DETAILS	
PROJECT STATUS		SHEET TITLE	<b>C-501</b>
PROJECT NUMBER	C19676.00	SHEET NUMBER	SHEET 08 OF 11
DATE	2025-09-02		
DRAWN BY	DAP / MJB	CHECKED BY	TLM

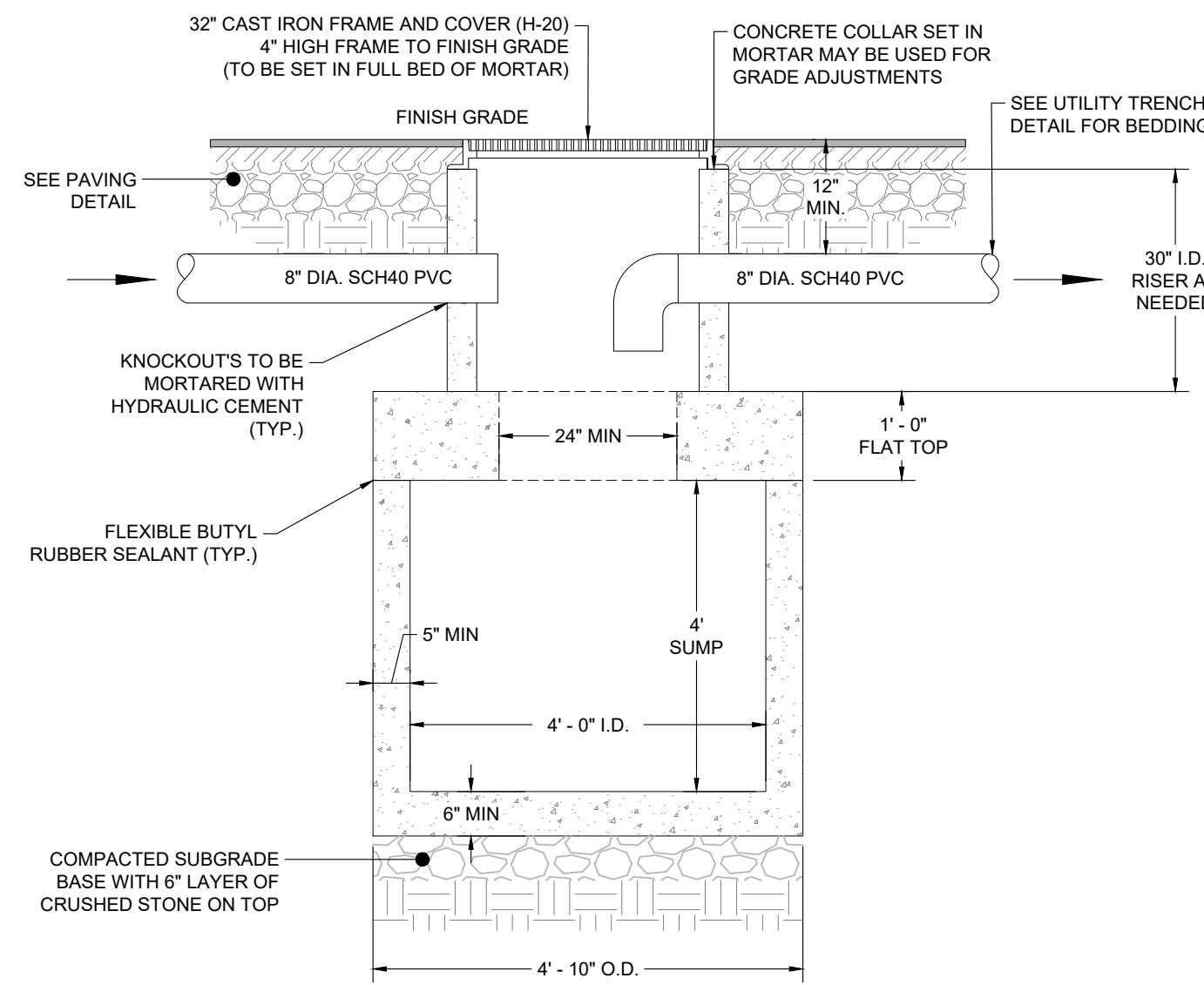


CATCH BASIN (DOUBLE GRATE)

SCALE: N.T.S.

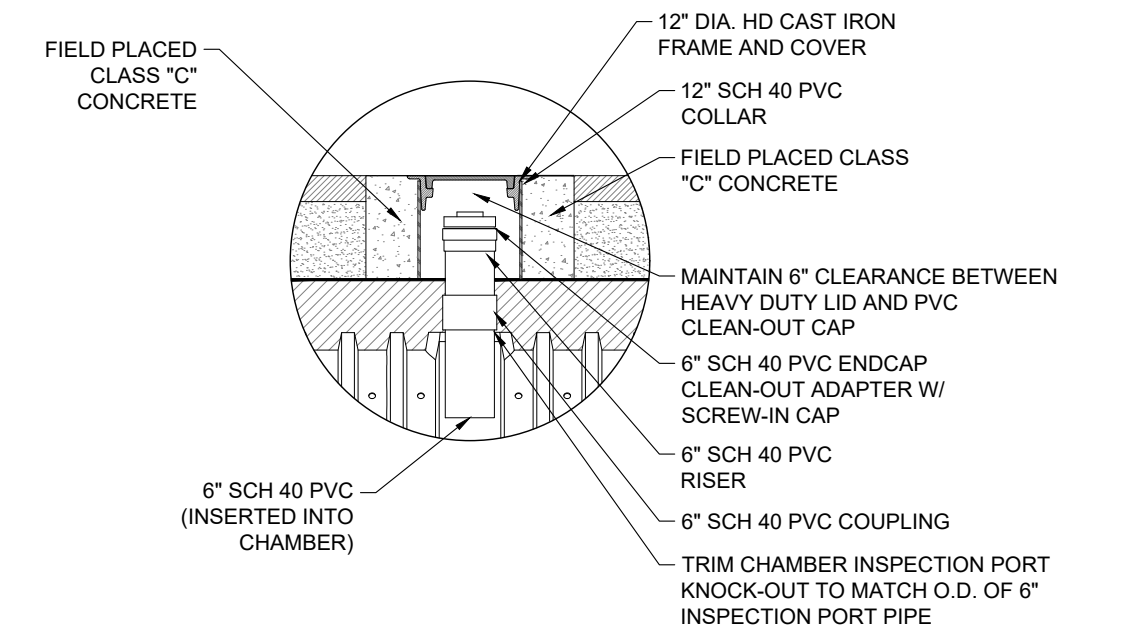
**PRECAST CONCRETE CATCH BASIN NOTES:**

1. ALL REINFORCING STEEL MUST CONFORM TO THE LATEST ASTM A185 AND/OR A615 GRADE 60. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENT.
2. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MIN. OF 0.12 SQ. IN/LINEAL FT. (BOTH WAYS).
3. CATCH BASIN SPECS. CONFORM TO THE LATEST ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
4. MORTAR SHALL CONFORM TO SECTION M4.02.15 OF THE MASSACHUSETTS D.P.W. STANDARD SPECS. FOR HIGHWAYS AND BRIDGES.
5. PIPE TO CATCH BASIN CONNECTIONS SHALL BE MADE WITH NON-SHRINK GROUT OR HYDRAULIC CEMENT.
6. ONE POUR MONOLITHIC BASE SECTION.
7. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS, CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
8. RED CLAY BRICK SHALL CONFORM WITH SECTION M4.05.2 CLAY BRICK OF MASSACHUSETTS D.P.W. STANDARD SPECS. FOR HIGHWAY AND BRIDGES.
9. FILTER FABRIC SHALL BE SET UNDER CATCH BASIN GRATES TO PREVENT SILTATION TO THE BASIN UNTIL SITE HAS BEEN STABILIZED.



4' PRECAST CONCRETE DRAIN MANHOLE

SCALE: N.T.S.

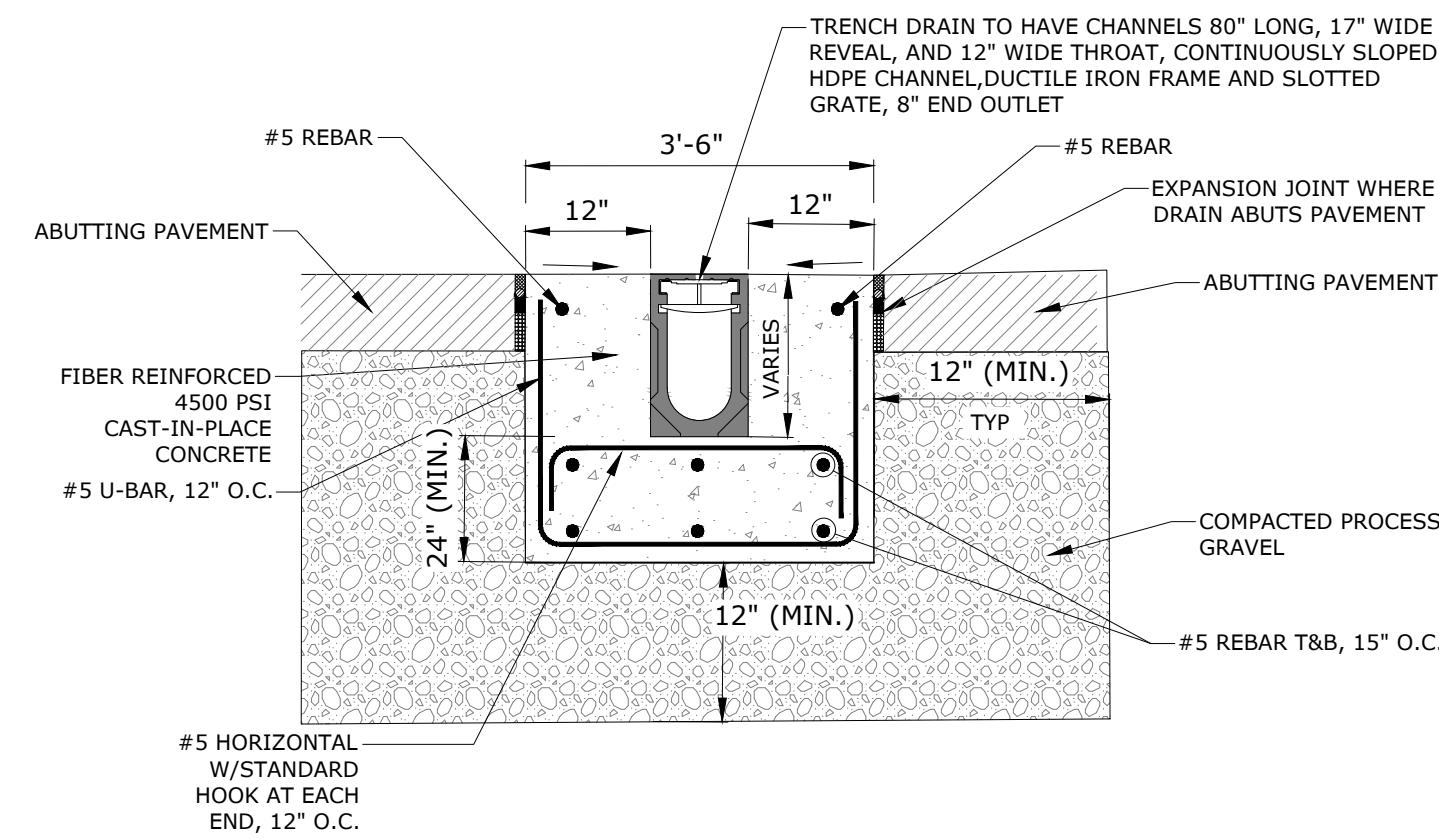


**INSPECTION NOTE:**

1. CONTRACTOR TO CONTACT ENGINEER FOR INSPECTION OF SOIL IN BOTTOM OF HOLE PRIOR TO SETTING DRAINAGE STONE/COMPONENTS.
2. CONTRACTOR TO CONTACT ENGINEER FOR INSPECTION OF INSTALLED SYSTEM PRIOR TO BACKFILL.

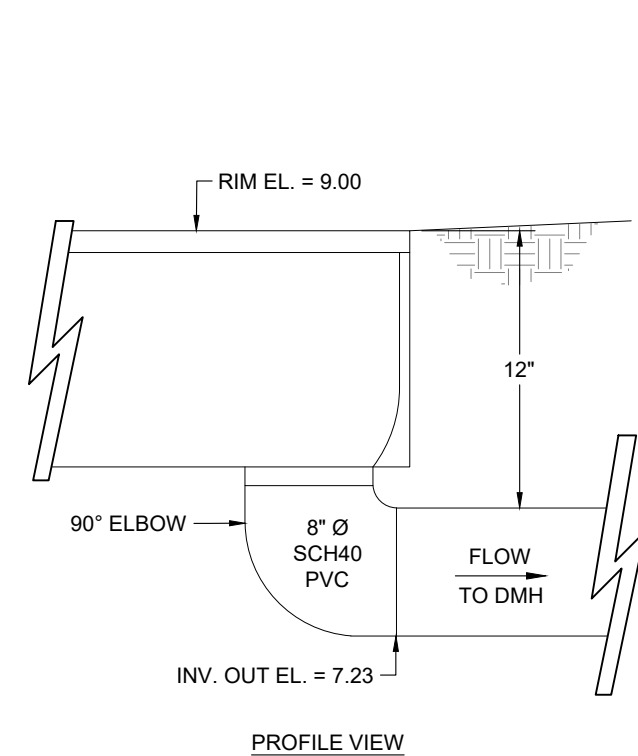
INSPECTION PORT

SCALE: N.T.S.



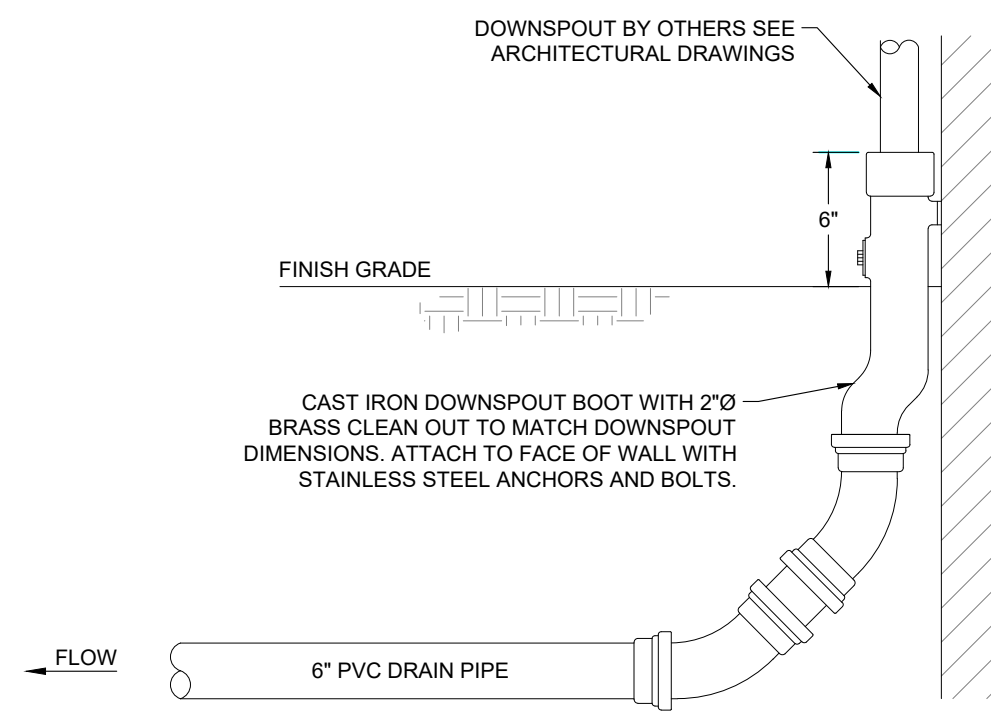
TRENCH DRAIN DETAIL

SCALE: N.T.S.



DOWNSPOUT BOOT DETAIL

SCALE: N.T.S.

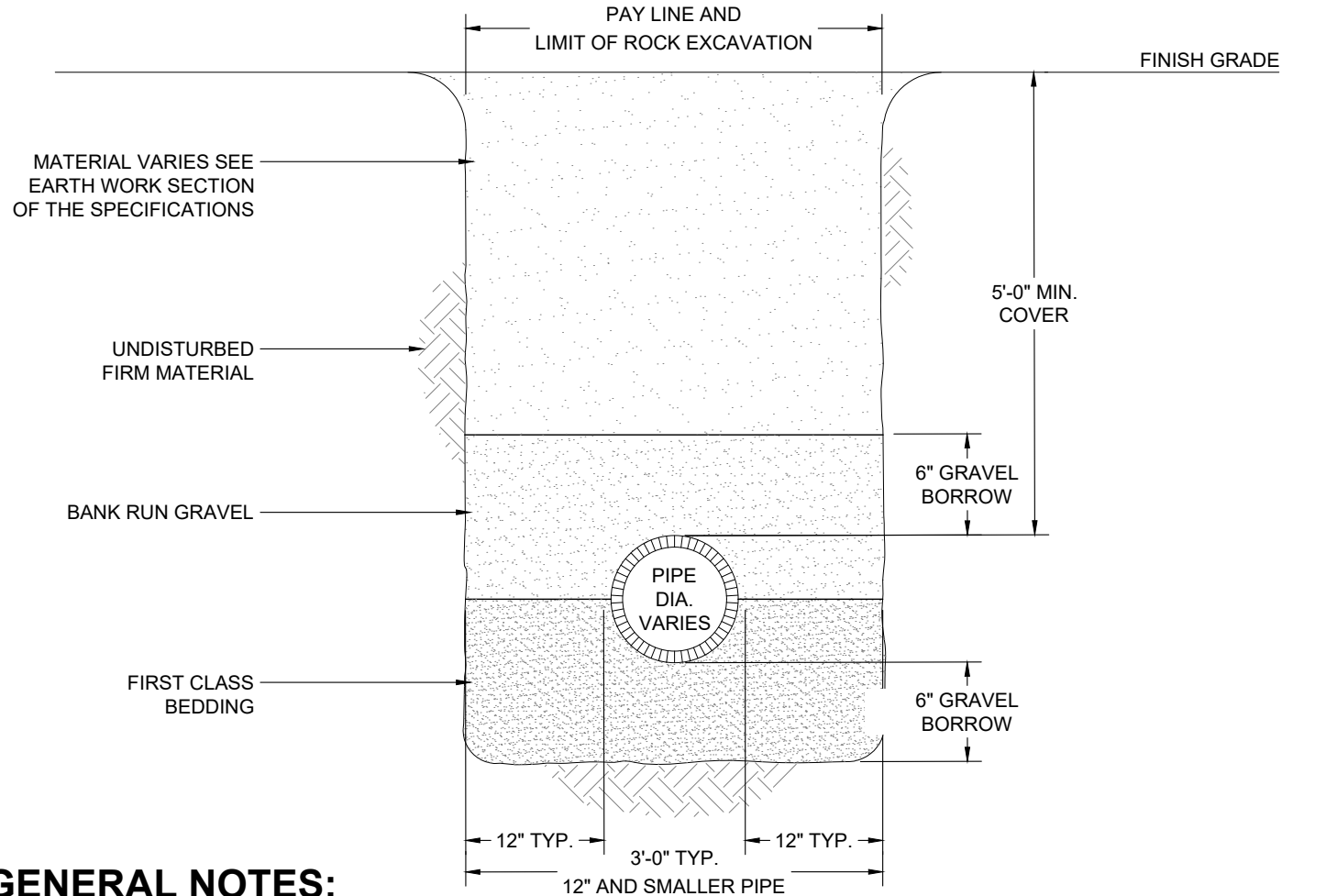


**GENERAL NOTES:**

1. FINISH GRADE MATERIAL VARIES (SEE SITE PLAN)
2. COMPACT SOIL IN HAUNCHING ZONE TO 85% MAX. DRY DENSITY.

UTILITY TRENCH

SCALE: N.T.S.



**GENERAL NOTES:**

1. RESTORE FINISH GRADE TO MATCH EXISTING.
2. FINISH GRADE MATERIAL VARIES (SEE SITE PLANS).
3. SEE ROADWAY UTILITY TRENCH REPAIR DETAIL.

WATER TRENCH DETAIL

SCALE: N.T.S.



REV	DATE	DESCRIPTION	DWN	CHK

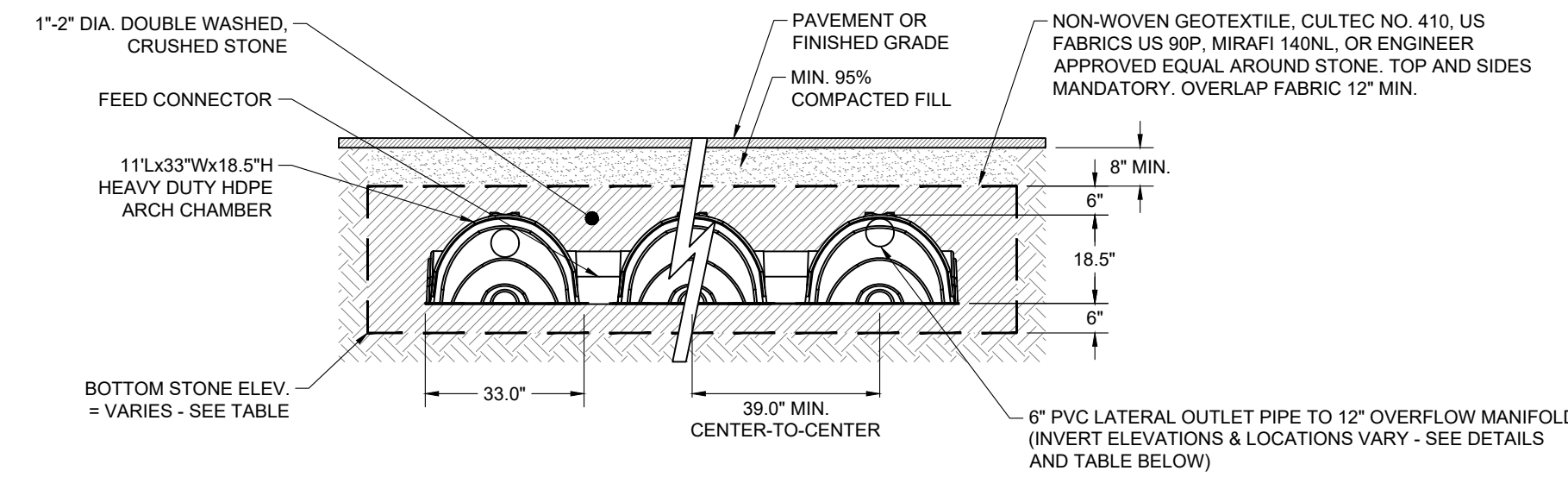
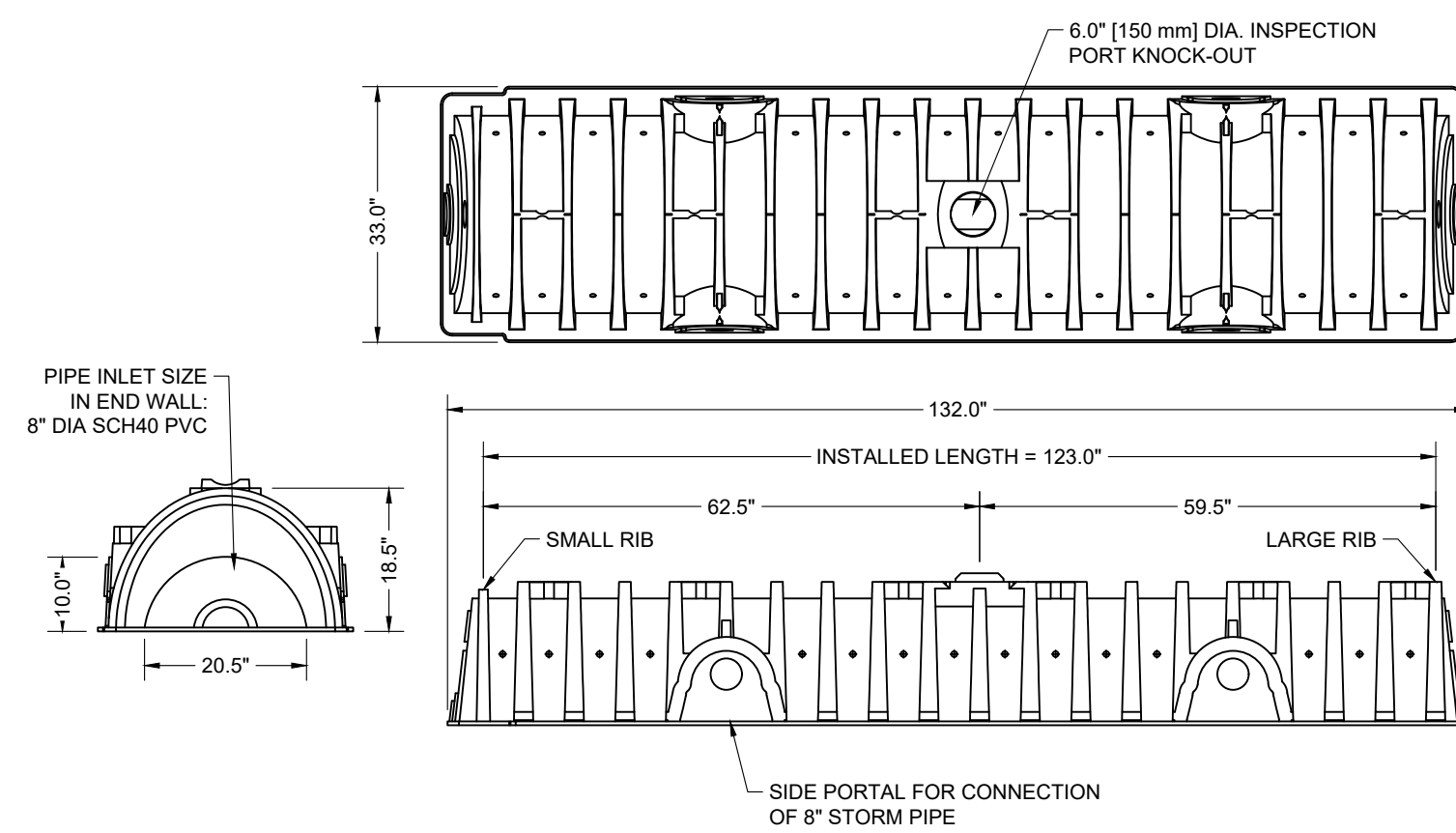
PROJECT/CLIENT NAME  
**CATALYST ARCHITECTURE / INTERIORS**  
**SESUIT HARBOR IMPROVEMENTS**

ADDRESS  
 351 SESUIT NECK ROAD  
 DENNIS, MA 02660

SEAL

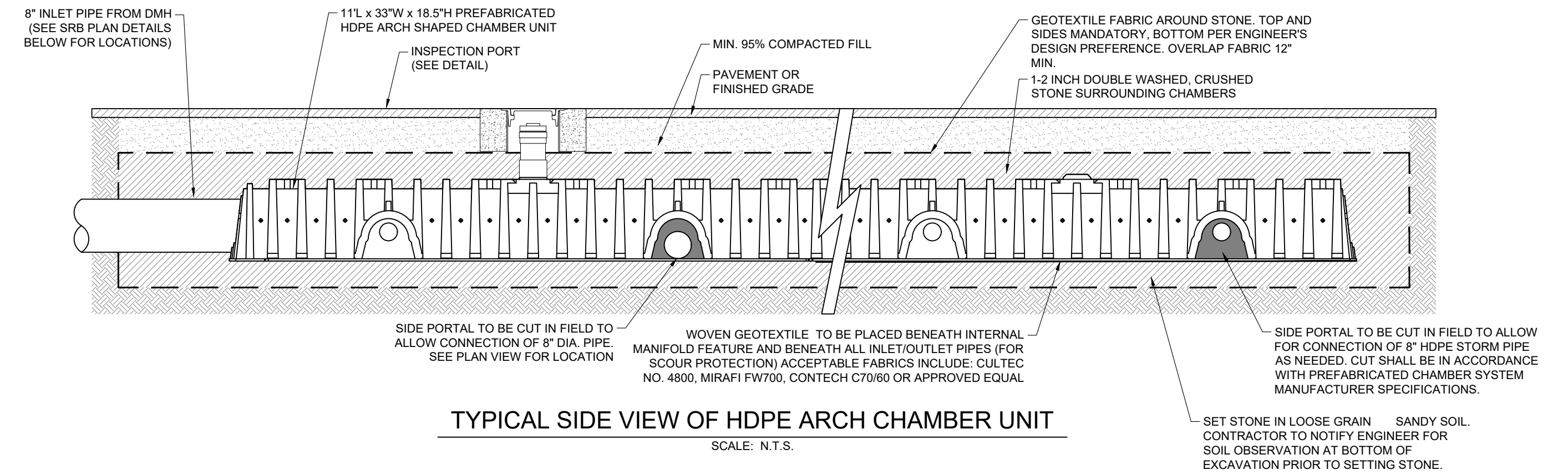
9-2-2025

SHEET DESCRIPTION		UTILITY DETAILS	
PROJECT STATUS		SHEET TITLE	
PROJECT NUMBER	C19676.00	SHEET NUMBER	<b>C-502</b>
DATE	2025-09-02		
DRAWN BY	DAP / MJB	CHECKED BY	TLM
		SHEET 09 OF 11	



TYPICAL END VIEW OF HDPE ARCH CHAMBER UNIT

SCALE: N.T.S.

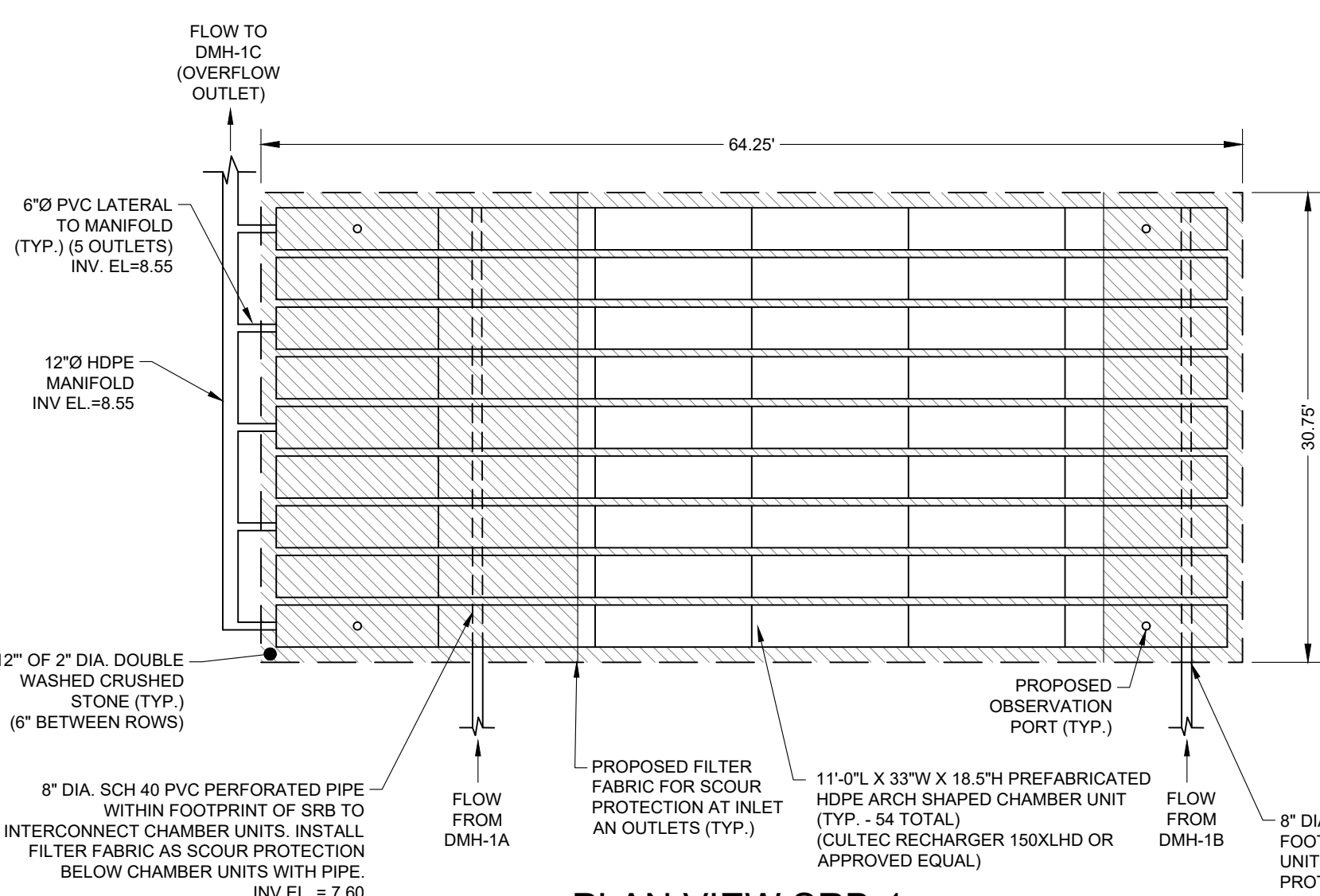


TYPICAL SIDE VIEW OF HDPE ARCH CHAMBER UNIT

SCALE: N.T.S.

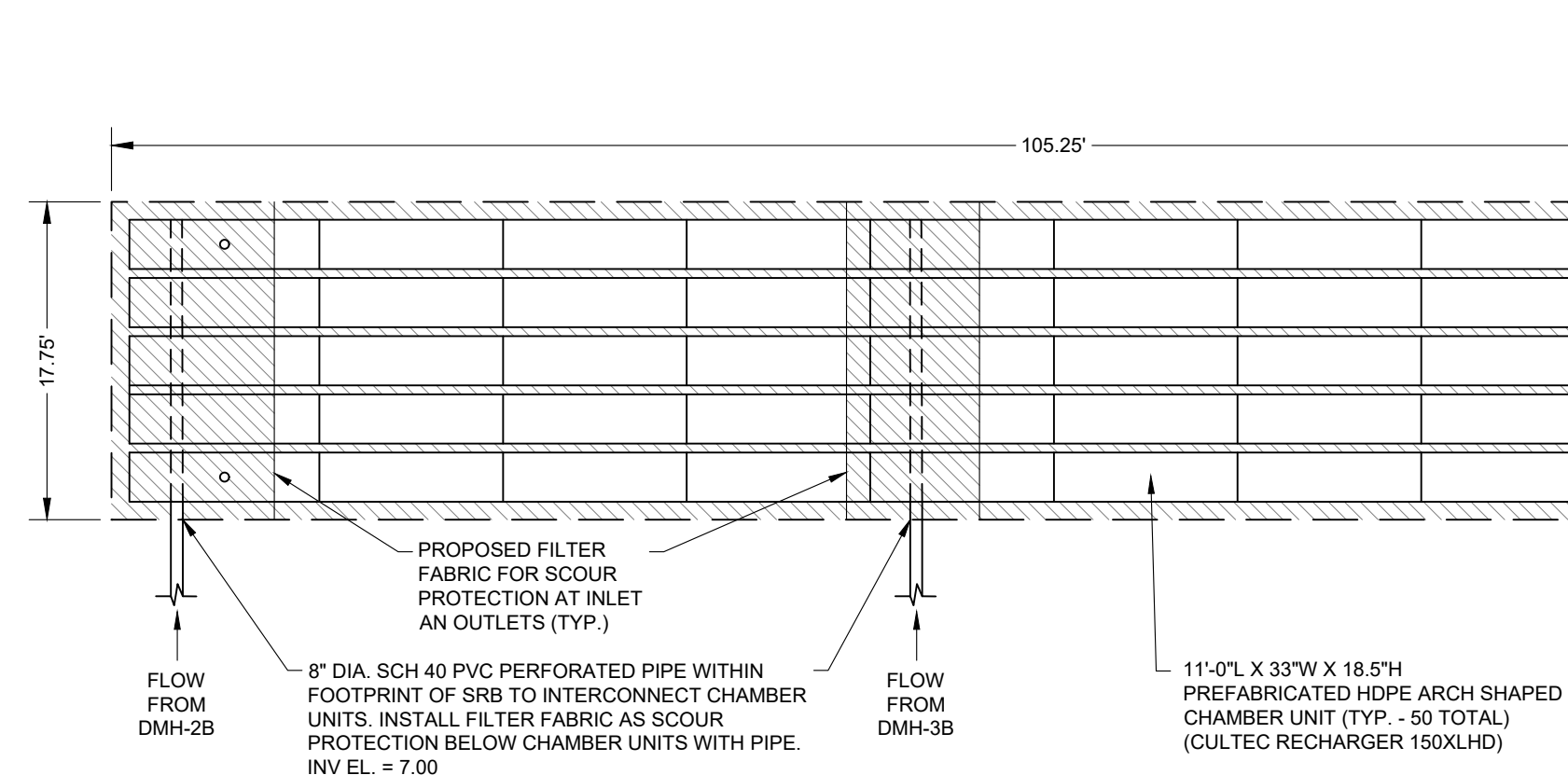
11' L X 33' W X 18.5" HDPE ARCH CHAMBER UNIT DETAIL

SCALE: N.T.S.



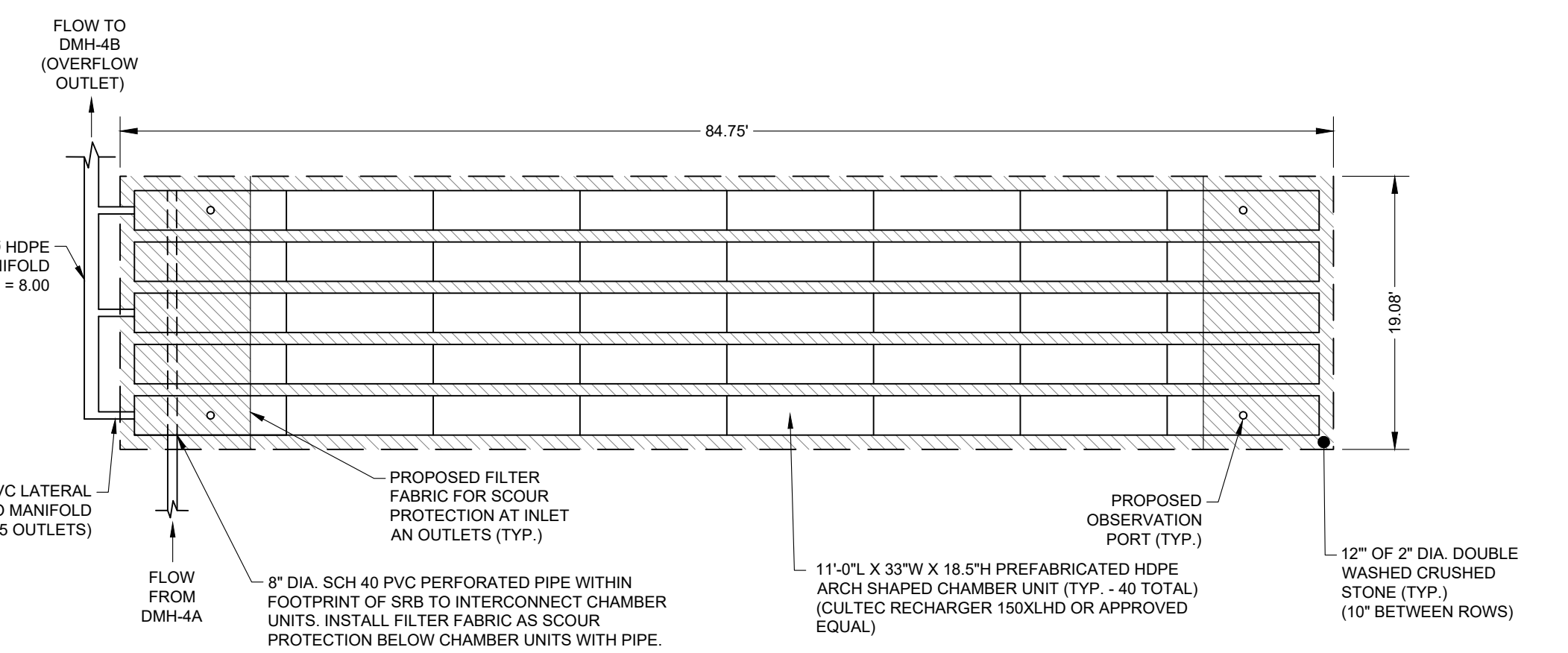
PLAN VIEW SRB-1

64.25' L X 30.75' W X 2.54' D STORMWATER RECHARGE BASIN USE HDPE ARCH SHAPED CHAMBER (CULTEC RECHARGER 150XLHD OR APPROVED EQUAL); H-20 RATED FOR USE UNDER DRIVEWAY (INSTALL 9 ROWS OF 6 CHAMBER UNITS; TOTAL = 54)



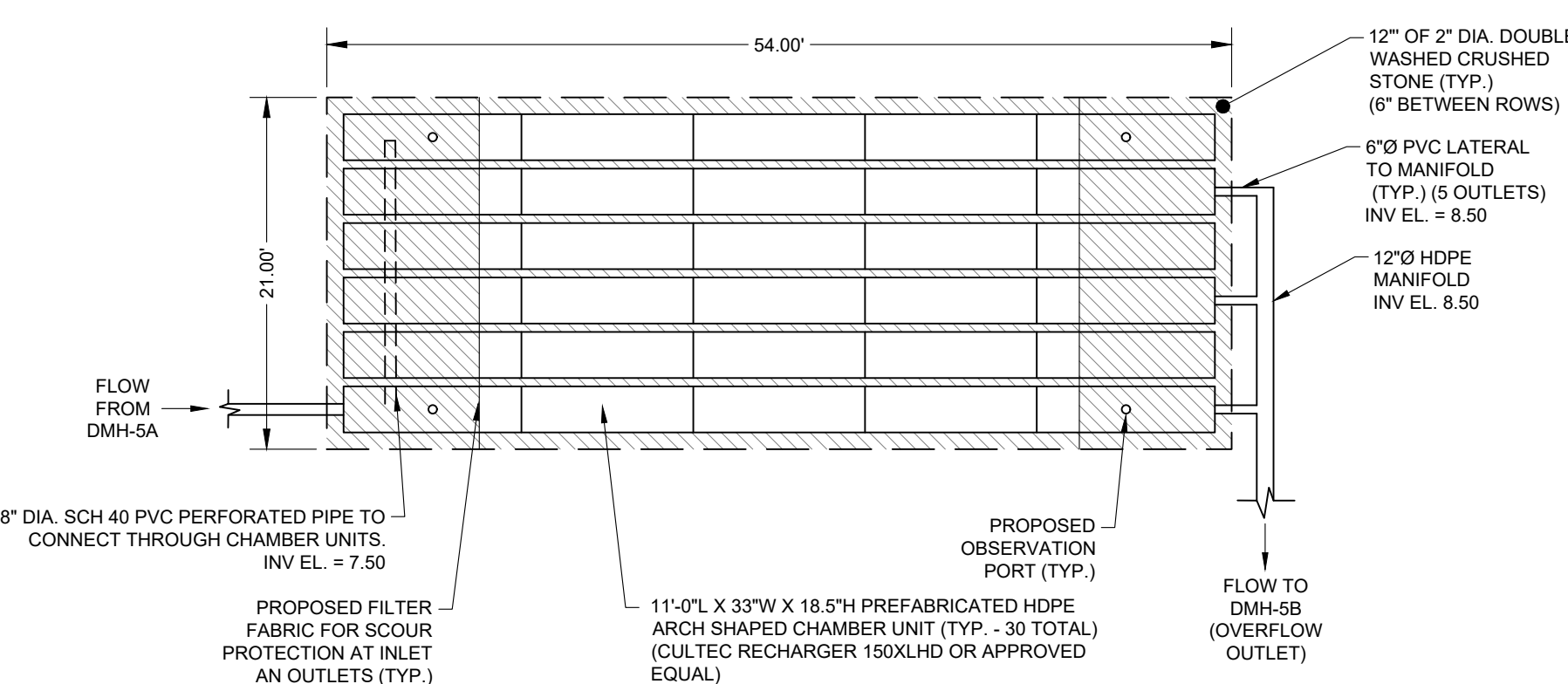
PLAN VIEW SRB-3

105.25' L X 17.75' W X 2.54' D STORMWATER RECHARGE BASIN USE HDPE ARCH SHAPED CHAMBER (CULTEC RECHARGER 150XLHD OR APPROVED EQUAL); H-20 RATED FOR USE UNDER DRIVEWAY (INSTALL 5 ROWS OF 10 CHAMBER UNITS; TOTAL = 50)



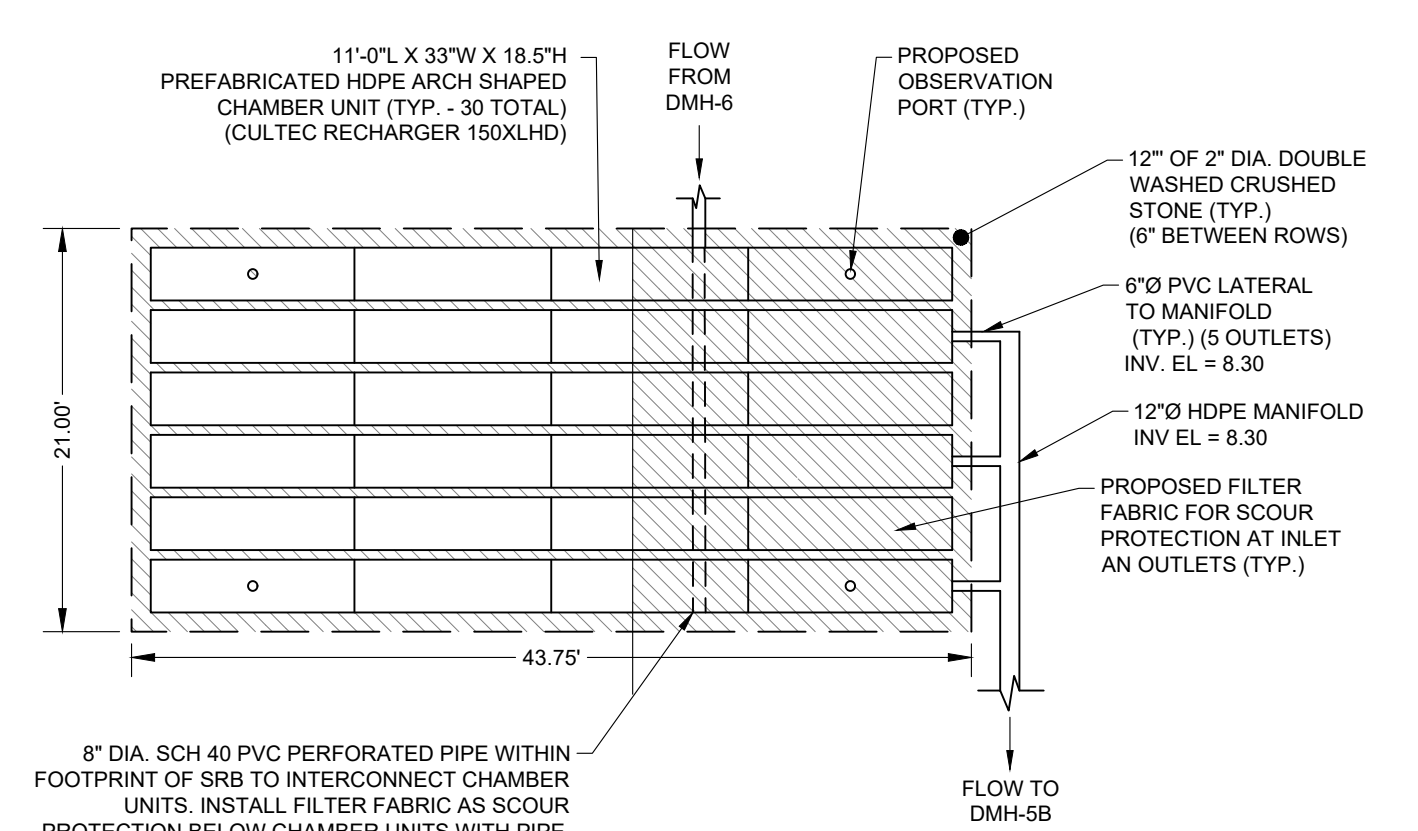
PLAN VIEW SRB-4

84.75' L X 19.08' W X 2.54' D STORMWATER RECHARGE BASIN USE HDPE ARCH SHAPED CHAMBER (CULTEC RECHARGER 150XLHD OR APPROVED EQUAL); H-20 RATED FOR USE UNDER DRIVEWAY (INSTALL 5 ROWS OF 8 CHAMBER UNITS; TOTAL = 40)



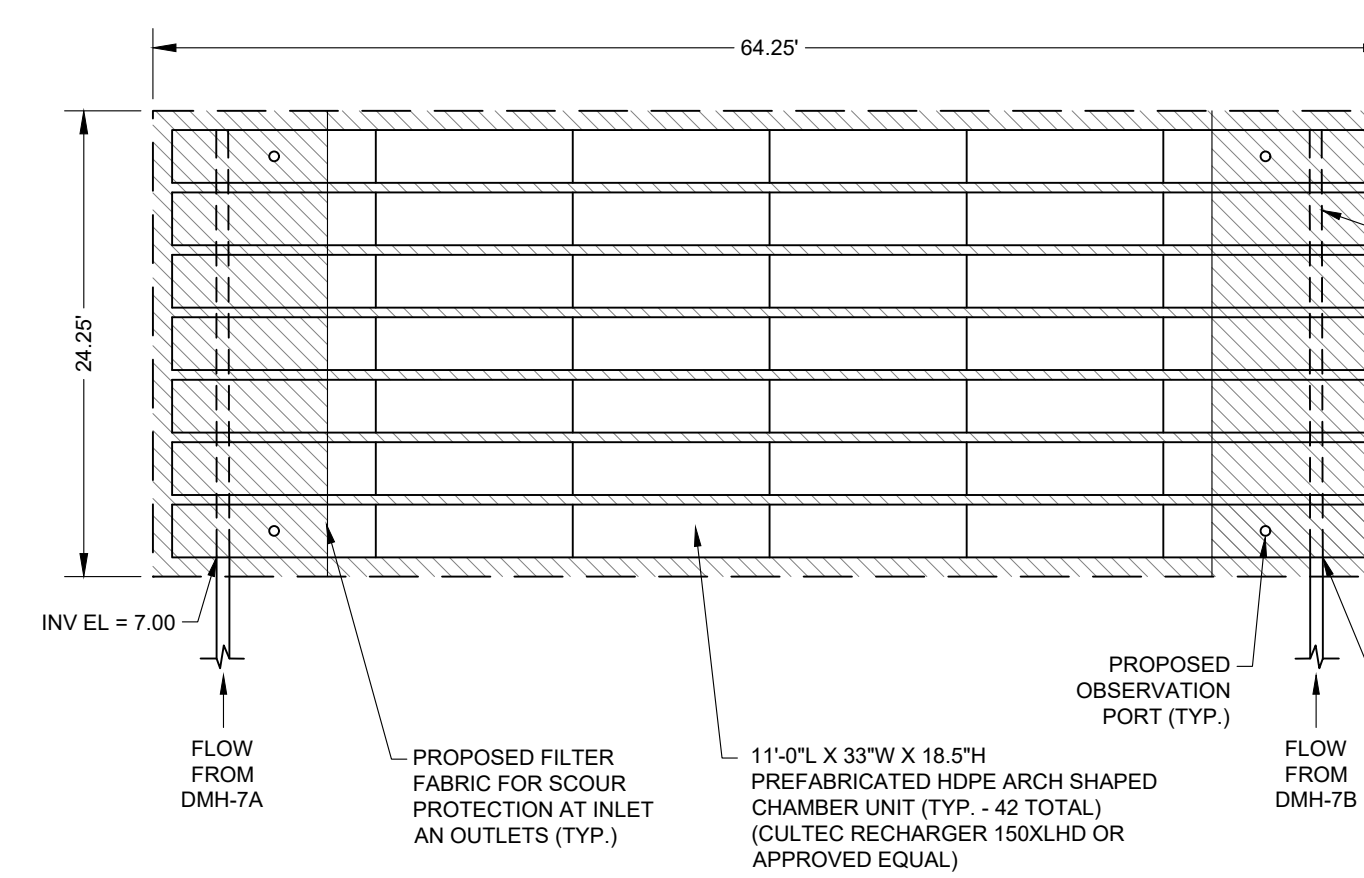
PLAN VIEW SRB-5

54' L X 21' W X 2.54' D STORMWATER RECHARGE BASIN USE HDPE ARCH SHAPED CHAMBER (CULTEC RECHARGER 150XLHD OR APPROVED EQUAL); H-20 RATED FOR USE UNDER DRIVEWAY (INSTALL 6 ROWS OF 5 CHAMBER UNITS; TOTAL = 30)



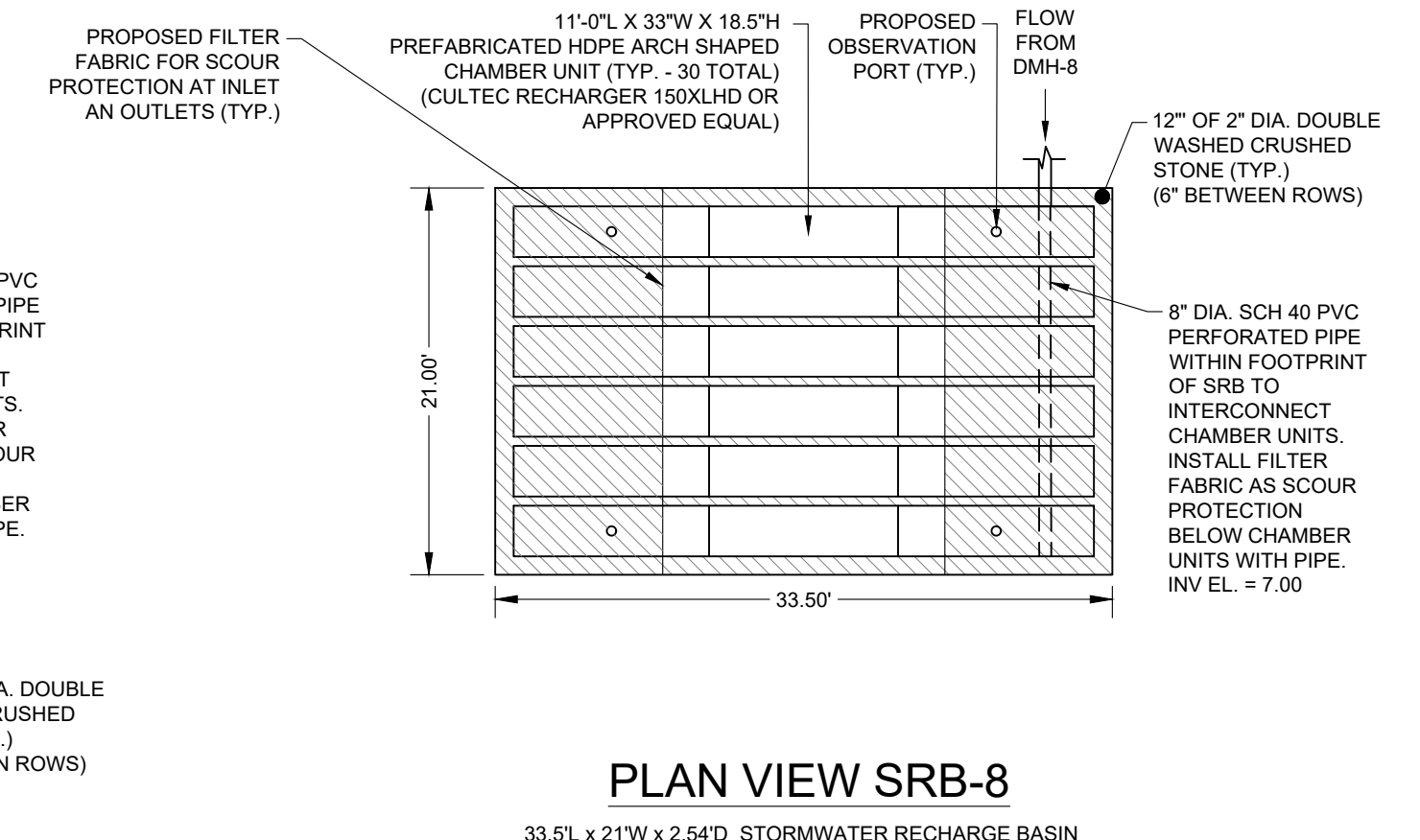
PLAN VIEW SRB-6

43.75' L X 21' W X 2.54' D STORMWATER RECHARGE BASIN USE HDPE ARCH SHAPED CHAMBER (CULTEC RECHARGER 150XLHD OR APPROVED EQUAL); H-20 RATED FOR USE UNDER DRIVEWAY (INSTALL 6 ROWS OF 4 CHAMBER UNITS; TOTAL = 24)



PLAN VIEW SRB-7

64.25' L X 24.25' W X 2.54' D STORMWATER RECHARGE BASIN USE HDPE ARCH SHAPED CHAMBER (CULTEC RECHARGER 150XLHD OR APPROVED EQUAL); H-20 RATED FOR USE UNDER DRIVEWAY (INSTALL 7 ROWS OF 6 CHAMBER UNITS; TOTAL = 42)

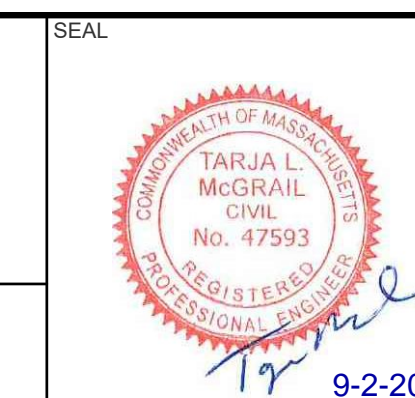


PLAN VIEW SRB-8

33.5' L X 21' W X 2.54' D STORMWATER RECHARGE BASIN USE HDPE ARCH SHAPED CHAMBER (CULTEC RECHARGER 150XLHD OR APPROVED EQUAL); H-20 RATED FOR USE UNDER DRIVEWAY (INSTALL 6 ROWS OF 3 CHAMBER UNITS; TOTAL = 18)

CATALYST ARCHITECTURE / INTERIORS  
 SESUIT HARBOR IMPROVEMENTS

351 SESUIT NECK ROAD  
 DENNIS, MA 02660



SHEET DESCRIPTION		SHEET TITLE	
DRAINAGE DETAILS		C-503	
PROJECT STATUS	C19676.00	PROJECT NUMBER	C19676.00
DATE	2025-09-02	DATE	2025-09-02
DRAWN BY	DAP / MJB	CHECKED BY	TLM
SHEET NUMBER		SHEET 10 OF 11	

REV	DATE	DESCRIPTION	DWN	CHK



**DESIGN CALCULATIONS:**

**DESIGN FLOW:**  
 1,500 S.F. HARBOR MASTER OFFICE @ 75 GPD / 1,000 S.F. = 113 GPD  
 HARBOR MASTER GARAGE (1 BAY) @ 125 GPD / BAY = 125 GPD  
 138 PARKING SPACES x 5 GPD / SPACE = 690 GPD  
**TOTAL DESIGN FLOW = 928 GPD**

**REQUIRED PRIMARY SEPTIC TANK CAPACITY:**  
 928 x 300% = 2,784 GAL. REQUIRED CAPACITY  
 USE 3,000 GAL. TWO COMPARTMENT SEPTIC TANK (H-20) (MIN. ALLOWED)

**REQUIRED SECONDARY TREATMENT SYSTEM TANK CAPACITY:**  
 928 GALLONS DAILY DESIGN FLOW  
 USE 4,000 GALLON THREE COMPARTMENT SEPTIC TANK (H-20) WITH I/A TECHNOLOGY (MIN. ALLOWED)

**REQUIRED LEACHING AREA:**  
 A 51'L x 25'W x 0.5' EFF. D LEACH FIELD CAN LEACH:  
 V<sub>1</sub> = (51' x 25') x 74 = 943.5 GPD  
 V<sub>2</sub> = 943.5 x 928 GPD REQ.

**INSTALL:**  
 ONE (1) - 3,000 GAL. TWO COMPARTMENT SEPTIC TANK (H-20)  
 ONE (1) - EFFLUENT U.V. DISINFECTION UNIT (H-20)  
 ONE (1) - 4,000 GAL. THREE COMPARTMENT SEPTIC TANK WITH I/A TECHNOLOGY (H-20)  
 ONE (1) - DISTRIBUTION BOX - 6 OUTLET (H-20)  
 ONE (1) - 51'L x 25'W x 0.5'D LEACH FIELD

**NOTES:**

- GARAGE GRINDERS ARE NOT ALLOWED WITH THIS DESIGN.
- ALL WATER FIXTURES TO BE WATER TESTED BY CONTRACTOR TO VERIFY ALL SEWER EXIT LOCATIONS PRIOR TO INSTALLATION OF ANY SYSTEM COMPONENTS.
- THE INSTALLER IS RESPONSIBLE FOR ASSURING THAT COMPONENTS OF THE SEWAGE DISPOSAL SYSTEM ARE DESIGNED WITH SUFFICIENT STRENGTH TO SUSTAIN ALL LOADS TO BE IMPOSED ON THEM. ANY COMPONENT OF THE SYSTEM SUBJECT TO VEHICULAR TRAFFIC SHALL COMPLY WITH A MINIMUM STANDARD OF A.A.S.H.T.O. H-20 WHEEL LOADS.
- PRIOR TO SETTING ANY SEWAGE DISPOSAL SYSTEM COMPONENT, INSTALLER SHALL VERIFY EXISTING CONDITIONS, INCLUDING ELEVATIONS OF EXIT INVERTS, AND REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER. THE INSTALLER SHALL COORDINATE WITH THE PLUMBING SUBCONTRACTOR TO VERIFY THE COMPATIBILITY OF THE PROPOSED BUILDING SEWER EXIT ELEVATION WITH THE BUILDING'S EXISTING PLUMBING PRIOR TO CONSTRUCTION. ANY CONFLICTS SHALL BE REPORTED TO THE DESIGN ENGINEER.
- ALL GRAVITY SEWER PIPE SHALL BE 4" DIA. SCH 40 PVC UNLESS OTHERWISE NOTED. THE MINIMUM SLOPE OF 4" DIA. SCH 40 PVC SHALL BE 0.01 FT/FT.
- NO PART OF THIS DESIGN SHALL BE ALTERED WITHOUT PRIOR APPROVAL FROM THE DESIGN ENGINEER AND THE AGENT OF THE LOCAL BOARD OF HEALTH. ALL REQUESTS FOR CHANGES SHALL BE MADE IN WRITING PRIOR TO CONSTRUCTION.
- THE USE OF ALTERNATE MANUFACTURERS FOR SYSTEM COMPONENTS SHALL NOT BE APPROVED IF THE USE OF THEIR EQUIPMENT REQUIRES CHANGES IN DESIGN.
- THE INSTALLER SHALL ASCERTAIN THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION, AND SHALL PROTECT UTILITIES WITHIN THE WORK AREA DURING CONSTRUCTION.
- ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.

**IF APPLICABLE:**  
 10. FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL BE CLEAN GRANULAR SAND, FREE OF ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS. THE SAND SHALL BE GRADED SUCH THAT NOT MORE THAN 45% OF THE SAMPLE, BY WEIGHT, SHALL BE RETAINED ON THE #4 SIEVE. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES. THE MATERIAL THAT PASSES THE #4 SIEVE SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	PERCENT PASSING
# 4	100%
# 10	10%-100%
# 20	0%-20%
# 40	0%-5%

**NOTE:**  
 THE INFORMATION HEREON HAS BEEN PREPARED ACCORDING TO THE REQUIREMENTS OF TITLE 5 OF THE STATE ENVIRONMENTAL CODE FOR SUBSURFACE DISPOSAL OF SANITARY SEWAGE AND LOCAL BOARD OF HEALTH REGULATIONS.

**INSPECTION NOTE:**  
 THE STATE ENVIRONMENTAL CODE, TITLE 5, REQUIRES INSPECTION(S) OF THE SEWAGE DISPOSAL SYSTEM BY THE DESIGN ENGINEER. INSTALLATION CONTRACTOR MUST NOTIFY THE DESIGN ENGINEER PRIOR TO THE START OF INSTALLATION FOR DISCUSSION ON REQUIRED INSPECTIONS.

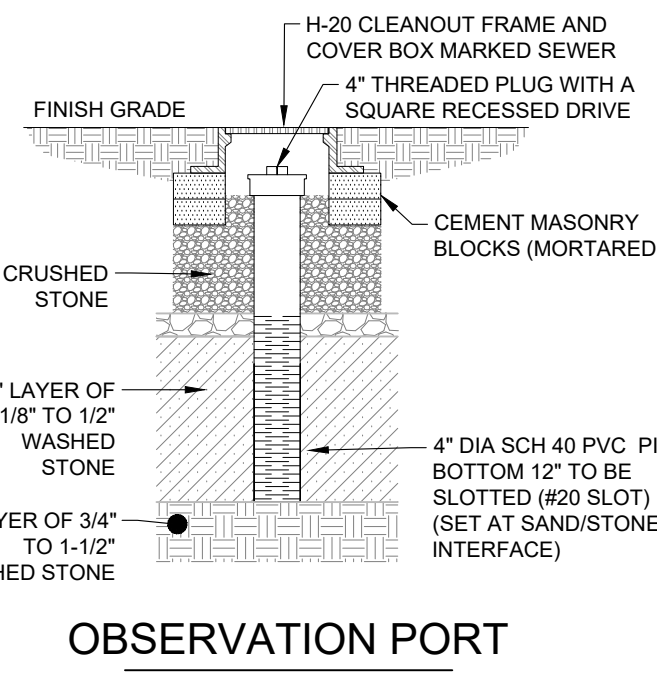
**BUOYANCY CALCULATIONS:**

**PROPOSED 3,000 GALLON TWO COMPARTMENT SEPTIC TANK (H-20)**  
**ASSUMPTIONS:**  
 TANK IS EMPTY  
 TANK DIMENSIONS= 17'L x 7'W x 6'-5"D  
 TANK WEIGHT= 40,500 LB (PER SHOREY PRECAST STPC730C)  
 WEIGHT OF RISERS, COVERS, AND SOIL NOT INCLUDED  
 BUOYANCY FORCE ON EMPTY TANK (ASSUME TANK IS FULLY SUBMERGED)  
 PROPOSED BOTTOM OF TANK ELEVATION = 3.1  
 DISPLACED WATER VOLUME= 17'L x 7'W x 6.42D  
 VOLUME= 784.0 C.F.  
 BUOYANCY FORCE UP= 784 C.F. x 64 LB/CF= 48,896 LB  
**DOWNWARD FORCES:**  
 TANK WEIGHT= 40,500 LB  
 6" THICK CONC. SLAB = 17'L x 7'W x .5'D  
 VOLUME= 59.5 C.F.  
 DOWNWARD FORCE = 59.5 C.F. x 150 LB/CF = 8,925 LB  
 TOTAL DOWNWARD FORCE= 48,896 LB + 8,925 LB  
 NET DOWNWARD FORCE= 49,425 LB - 48,896 LB = 529 LB

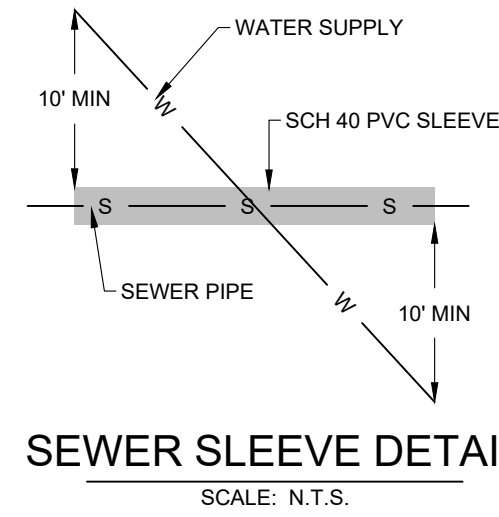
**PROPOSED 4,000 GALLON 3 COMPARTMENT SEPTIC TANK (H-20) WITH I/A TECHNOLOGY**  
**ASSUMPTIONS:**  
 TANK IS EMPTY  
 TANK DIMENSIONS= 17'L x 7'W x 7'-9"D  
 TANK WEIGHT= 46,000 LB (PER SHOREY PRECAST STARR 1.5-740)  
 WEIGHT OF RISERS, COVERS, I/A TECH, AND SOIL NOT INCLUDED  
 BUOYANCY FORCE ON EMPTY TANK (ASSUME TANK IS FULLY SUBMERGED)  
 PROPOSED BOTTOM OF TANK ELEVATION = 1.85  
 DISPLACED WATER VOLUME= 17'L x 7'W x 7.75D  
 VOLUME= 922.3 C.F.  
 BUOYANCY FORCE UP= 922.3 C.F. x 64 LB/CF= 59,027 LB  
**DOWNWARD FORCES:**  
 TANK WEIGHT= 46,000 LB  
 12" THICK CONC. SLAB = 17'L x 7'W x 12"D - (3 x 30"X48" HATCH)  
 VOLUME= 89.0 C.F.  
 DOWNWARD FORCE = 89.0 C.F. x 150 LB/CF = 13,350 LB  
 TOTAL DOWNWARD FORCE= 59,350 LB  
 NET DOWNWARD FORCE= 59,350 LB - 59,027 LB = 323 LB

**PROPOSED 6 OUTLET DISTRIBUTION BOX (H-20)**  
**ASSUMPTIONS:**  
 TANK IS EMPTY  
 TANK DIMENSIONS= 2'L x 2'W x 2'D  
 TANK WEIGHT= 895 LB (PER SHOREY PRECAST DB62)  
 WEIGHT OF RISERS, COVERS, I/A TECH, AND SOIL NOT INCLUDED  
 BUOYANCY FORCE ON EMPTY TANK (ASSUME TANK IS FULLY SUBMERGED)  
 PROPOSED BOTTOM OF TANK ELEVATION = 1.85  
 DISPLACED WATER VOLUME= 2'L x 2'W x 2.17D  
 VOLUME= 8.7 C.F.  
 BUOYANCY FORCE UP= 8.7 C.F. x 64 LB/CF= 557 LB  
**DOWNWARD FORCES:**  
 TANK WEIGHT= 895 LB  
 NET DOWNWARD FORCE = 895 - 557 = 338 LB

**PROPOSED 2,000 GALLON INDUSTRIAL WASTE HOLDING TANK**  
**ASSUMPTIONS:**  
 TANK IS EMPTY  
 OVERALL TANK DIMENSIONS= 17'L x 10'W x 7'-11"D  
 TANK WEIGHT= 87,825 LB (PER SHOREY PRECAST #NHWHW202)  
 BUOYANCY FORCE ON EMPTY TANK (ASSUME TANK IS FULLY SUBMERGED)  
 PROPOSED BOTTOM OF TANK ELEVATION = 1.0  
 DISPLACED WATER VOLUME= 17'L x 10'W x 7'-11"D  
 VOLUME= 1,346 C.F.  
 BUOYANCY FORCE UP= 1,346 C.F. x 64 LB/CF= 86,144 LB  
**DOWNWARD FORCES:**  
 TANK WEIGHT= 87,825 LB  
 TOTAL DOWNWARD FORCE= 87,825 LB  
 NET DOWNWARD FORCE= 87,825 - 86,144 = 1,481 LB

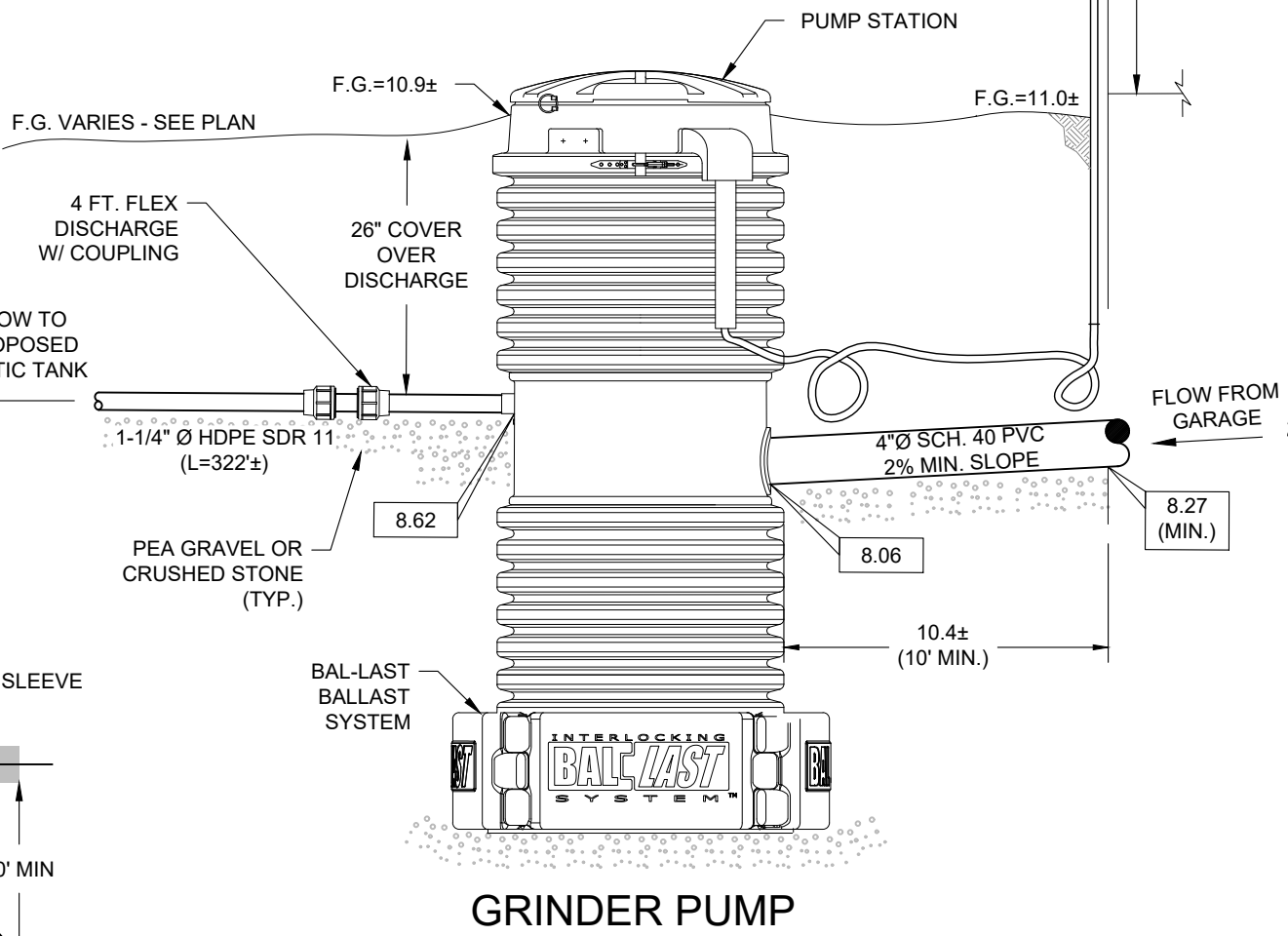


**OBSERVATION PORT**  
 SCALE: N.T.S.



**SEWER SLEEVE DETAIL**  
 SCALE: N.T.S.

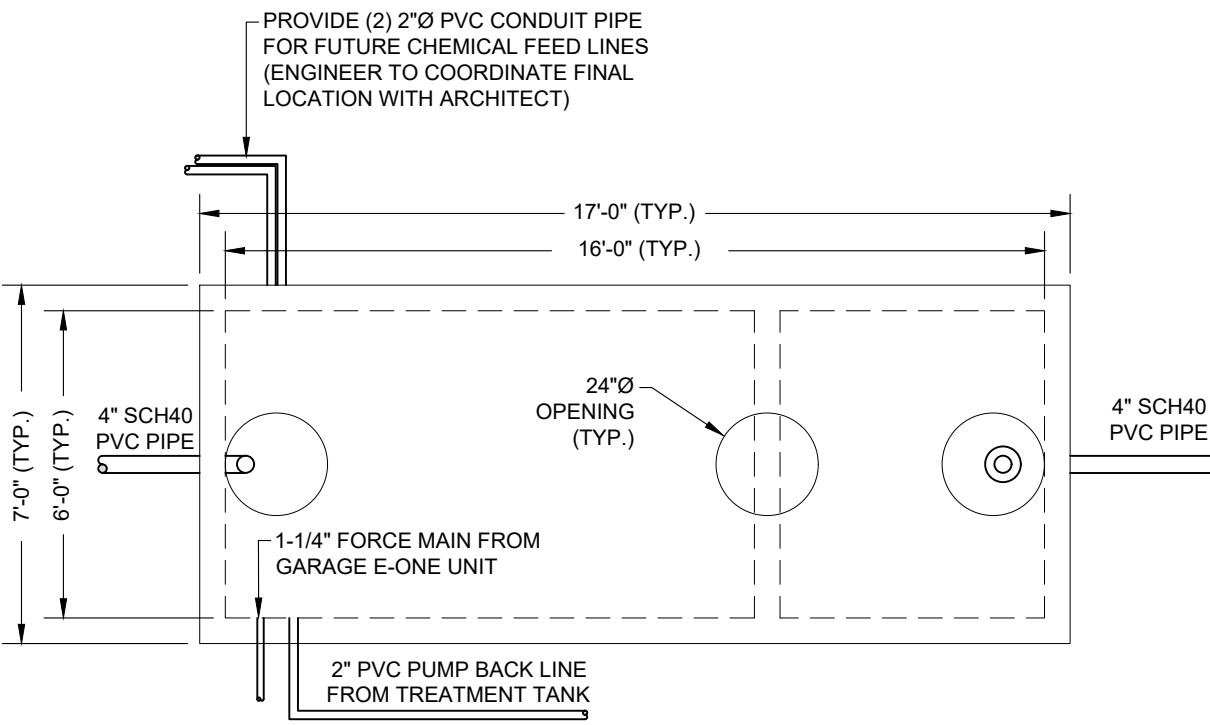
- PUMP NOTES:**
- GRINDER LIFT PUMP WITH MINIMUM 70 GALLON STORAGE CAPACITY AND CAPABLE OF MEETING OPERATION CONDITIONS OF 15 GPM AT 20FT TWH. PUMP SYSTEM TO INCLUDE BALLAST.
  - CONTROL PANEL TO BE PLACED IN PROXIMITY OF PUMP WITH SEPARATE CIRCUITS FOR PUMP AND ALARM.
  - FORCE MAIN SHALL SLOPE CONTINUOUSLY UPWARD FROM THE GRINDER PUMP STATION TO THE SEPTIC TANK.



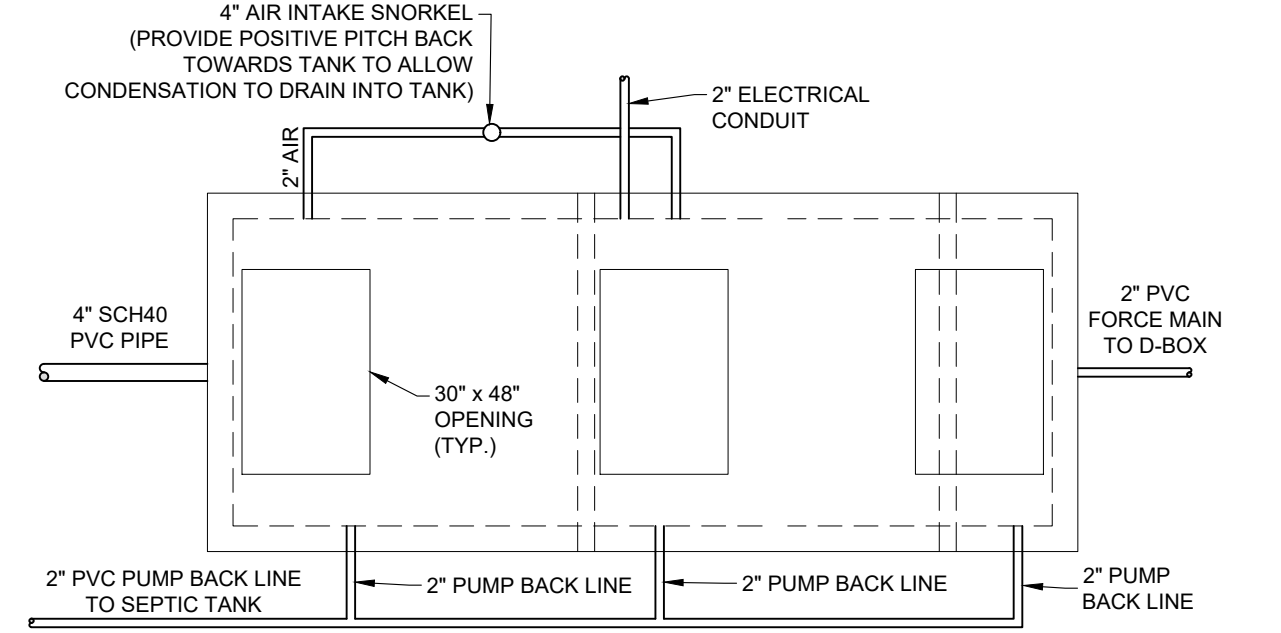
**GRINDER PUMP**  
 SCALE: N.T.S.

**SEWER PIPE NOTE:**  
 INSTALL SEWER PIPE GREATER THAN 10' FROM WATER SUPPLY WHERE SEWER PIPE CROSSES THE WATER SUPPLY OR WHERE THE 10' SEPARATION IS NOT POSSIBLE PROVIDE A SLEEVE OF SCHEDULE 40 PVC PIPE OVER THE PROPOSED SEWER PIPE. SLEEVE TO EXTEND A MINIMUM OF 10' BEYOND WATER SUPPLY (SEE DETAIL).

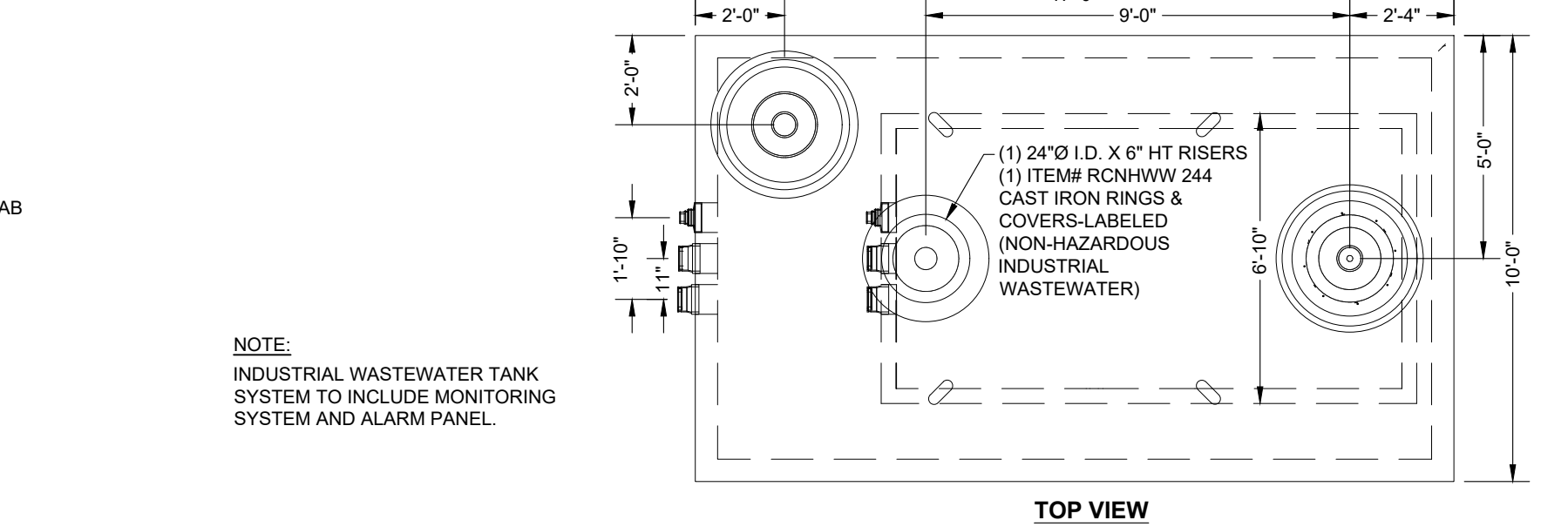
**WATER SUPPLY NOTE:**  
 INSTALL WATER SUPPLY GREATER THAN 10' FROM SEWER COMPONENTS. WHERE THE WATER SERVICE CROSSES SEWER OR WHERE THE 10' SEPARATION IS NOT POSSIBLE PROVIDE A SLEEVE OF SCHEDULE 40 PVC PIPE OVER THE PROPOSED WATER SERVICES. SLEEVE TO EXTEND A MINIMUM OF 10' BEYOND SEWER COMPONENT (SEE DETAIL).



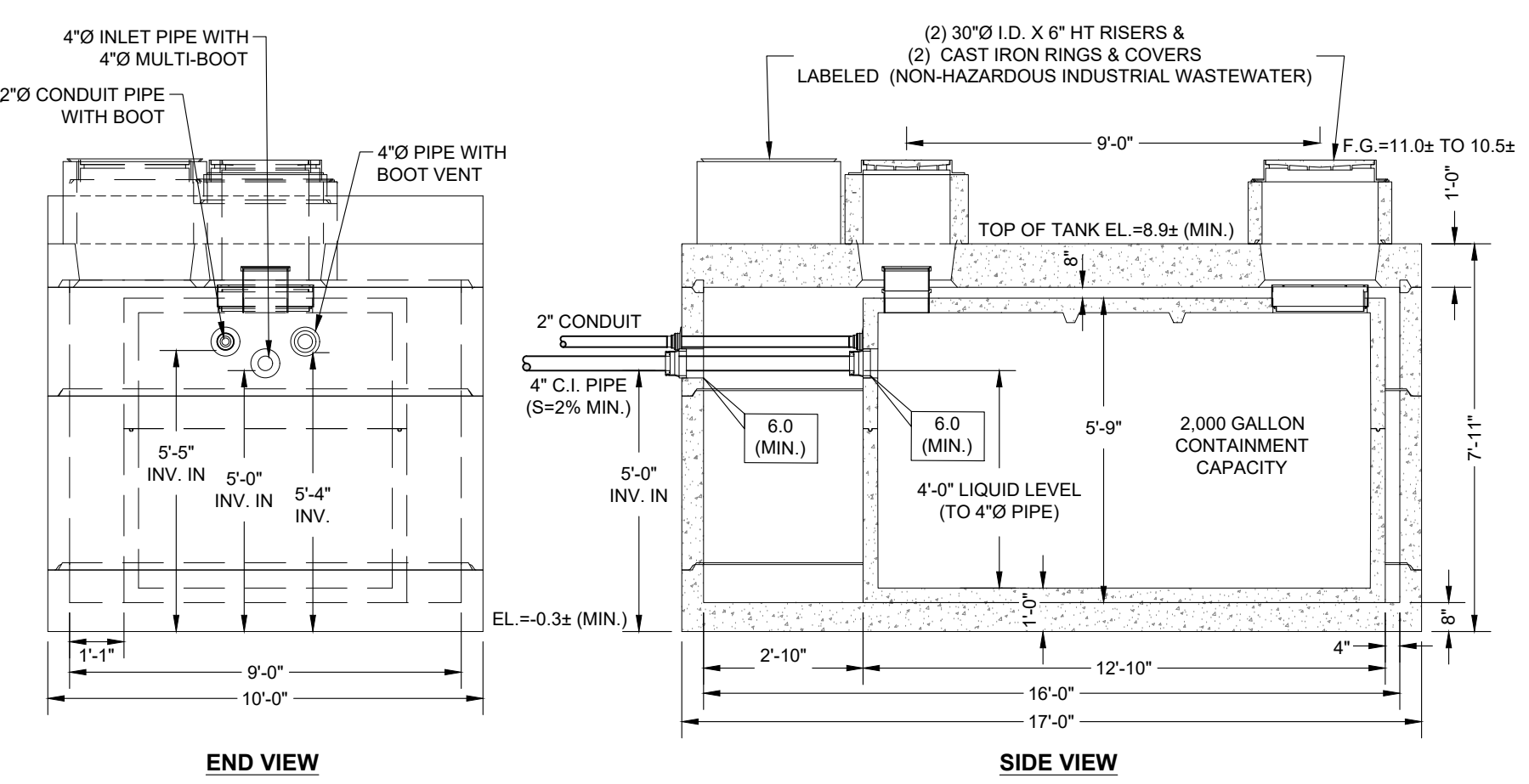
**3,000 GALLON TWO COMPARTMENT SEPTIC TANK (H-20)**  
 SCALE: N.T.S.



**4,000 GALLON SEPTIC TANK WITH I/A TECHNOLOGY \***  
 SCALE: N.T.S.  
 \* SEPTI-TECH M1500D PROCESSOR OR APPROVED EQUAL



**TOP VIEW**

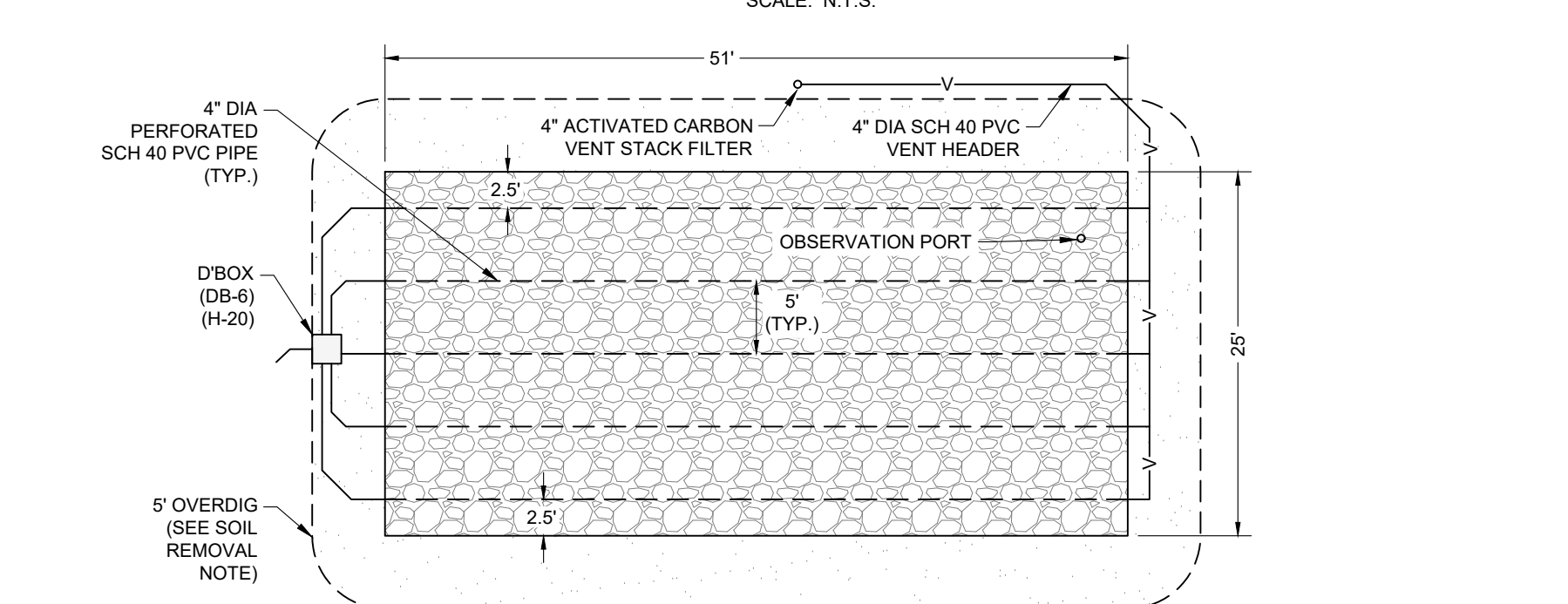


**END VIEW**

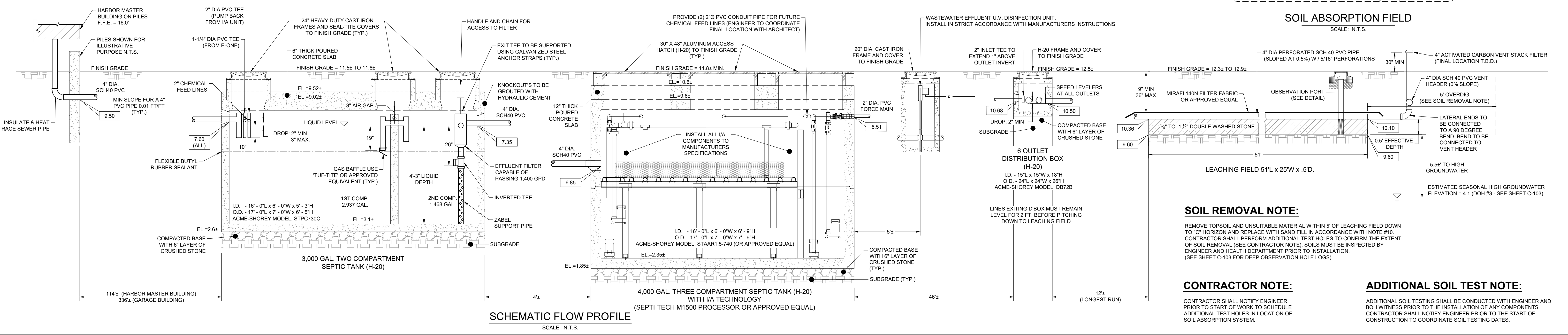
**SIDE VIEW**

**NOTE:**  
 CONTRACTOR TO CONFIRM ELEVATION OF FLOOR DRAIN BUILDING EXIT INVERT PRIOR TO SETTING TANK. NOTIFY ENGINEER OF ANY ELEVATION DISCREPANCIES.

**2,000 GALLON NON HAZARDOUS INDUSTRIAL WASTE WATER TANK (H-20)**  
 SCALE: N.T.S.



**SOIL ABSORPTION FIELD**  
 SCALE: N.T.S.



**SCHEMATIC FLOW PROFILE**  
 SCALE: N.T.S.

**SOIL REMOVAL NOTE:**

REMOVE TOPSOIL AND UNSUITABLE MATERIAL WITHIN 5' OF LEACHING FIELD DOWN TO "C" HORIZON AND REPLACE WITH SAND FILL IN ACCORDANCE WITH NOTE #10. CONTRACTOR SHALL PERFORM ADDITIONAL TEST HOLES TO CONFIRM THE EXTENT OF SOIL REMOVAL (SEE CONTRACTOR NOTE). SOILS MUST BE INSPECTED BY ENGINEER AND HEALTH DEPARTMENT PRIOR TO INSTALLATION. (SEE SHEET C-103 FOR DEEP OBSERVATION HOLE LOGS)

**CONTRACTOR NOTE:**

CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO START OF WORK TO SCHEDULE ADDITIONAL TEST HOLES IN LOCATION OF SOIL ABSORPTION SYSTEM.

**ADDITIONAL SOIL TEST NOTE:**

ADDITIONAL SOIL TESTING SHALL BE CONDUCTED WITH ENGINEER AND BOB WITNESS PRIOR TO THE INSTALLATION OF ANY COMPONENTS. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO THE START OF CONSTRUCTION TO COORDINATE SOIL TESTING DATES.

REV	DATE	DESCRIPTION	DWN	CHK

PROJECT/CLIENT NAME  
**CATALYST ARCHITECTURE / INTERIORS**  
 SESUIT HARBOR IMPROVEMENTS

ADDRESS  
 351 SESUIT NECK ROAD  
 DENNIS, MA 02660

SEAL

SHEET DESCRIPTION		UTILITY DETAILS	
PROJECT STATUS		SHEET TITLE	<b>C-504</b>
PROJECT NUMBER	C19676.00	SHEET NUMBER	
DATE	2025-09-02	SHEET 11 OF 11	
DRAWN BY	DAP / MJB	CHECKED BY	TLM

STAMP:

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**SESUIT HARBOR IMPROVEMENTS**  
**TOWN OF DENNIS**

**351 SESUIT HARBOR ROAD**  
**DENNIS, MA 02660**

TITLE:  
**HARBORMASTER**  
**ARCHITECTURAL**  
**SITE PLAN**

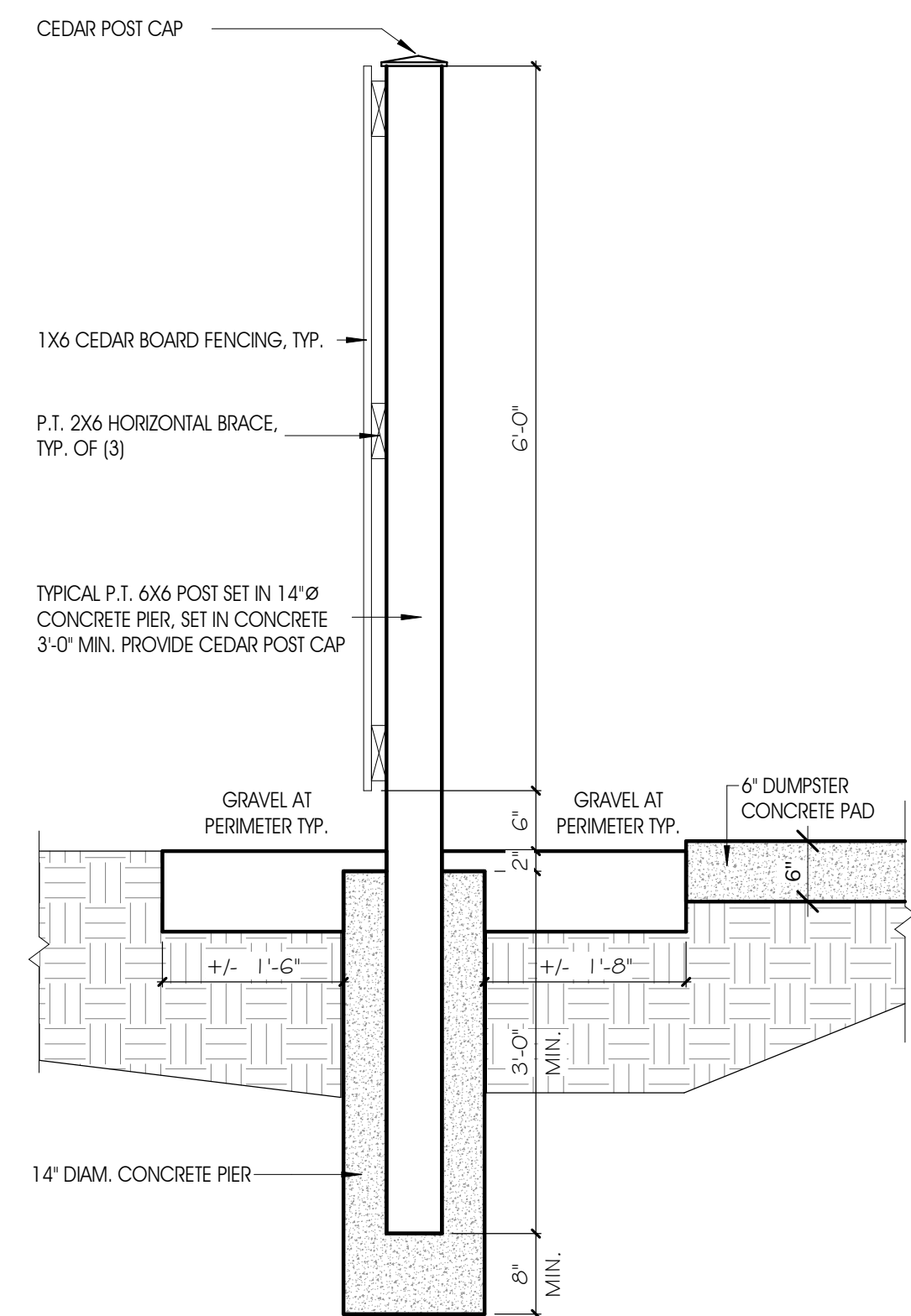
DATE ISSUED: 08 . 01 . 2025

REVISIONS:  
No. Description Date

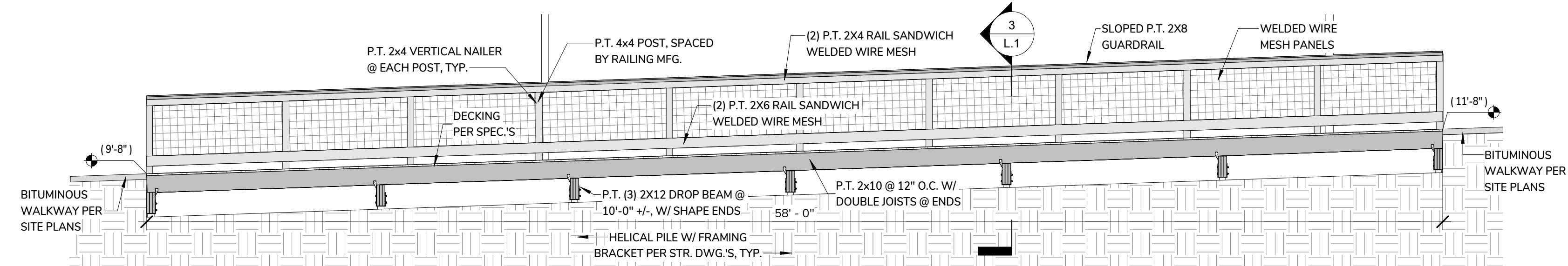
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**L.1**

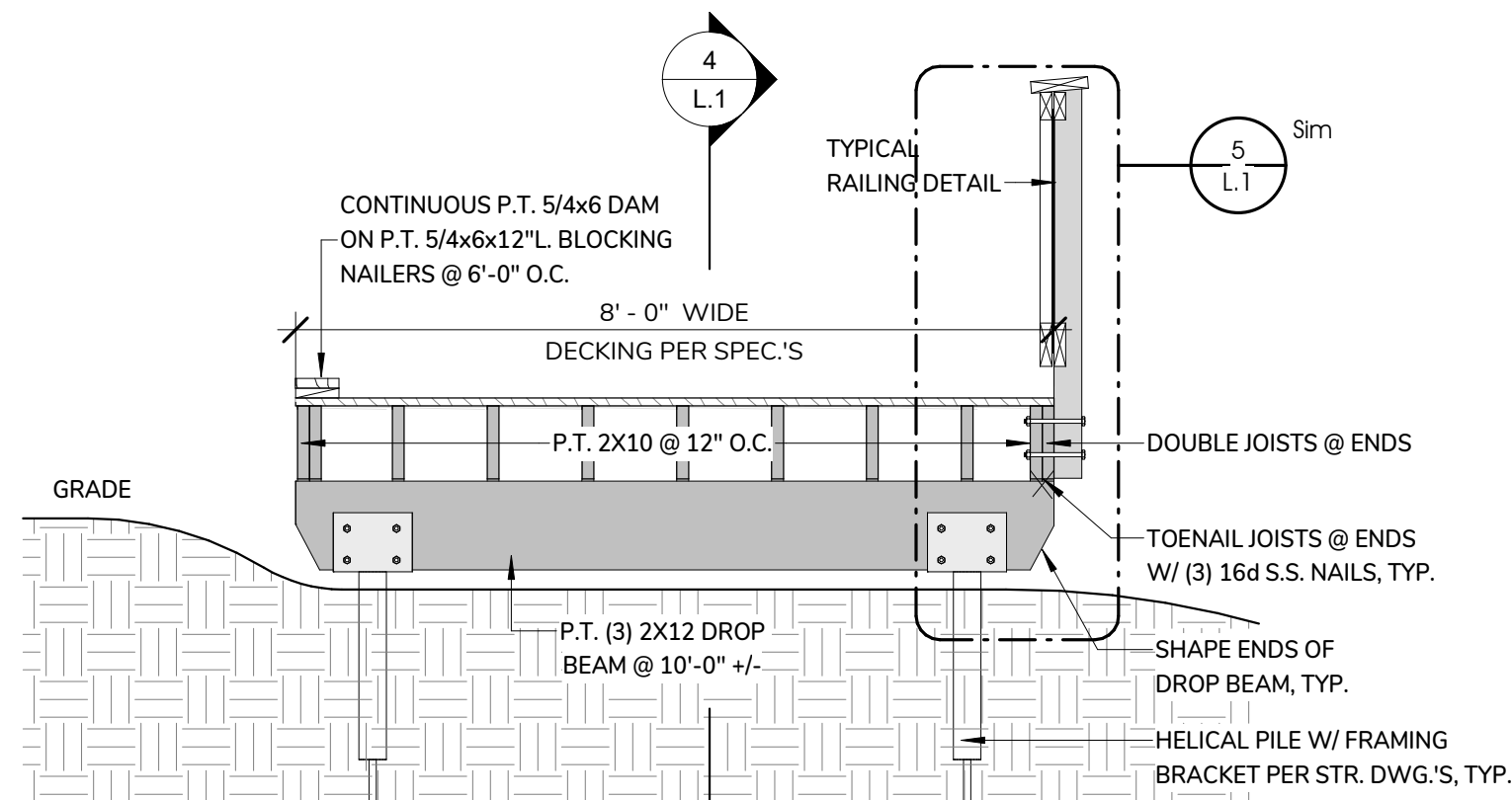
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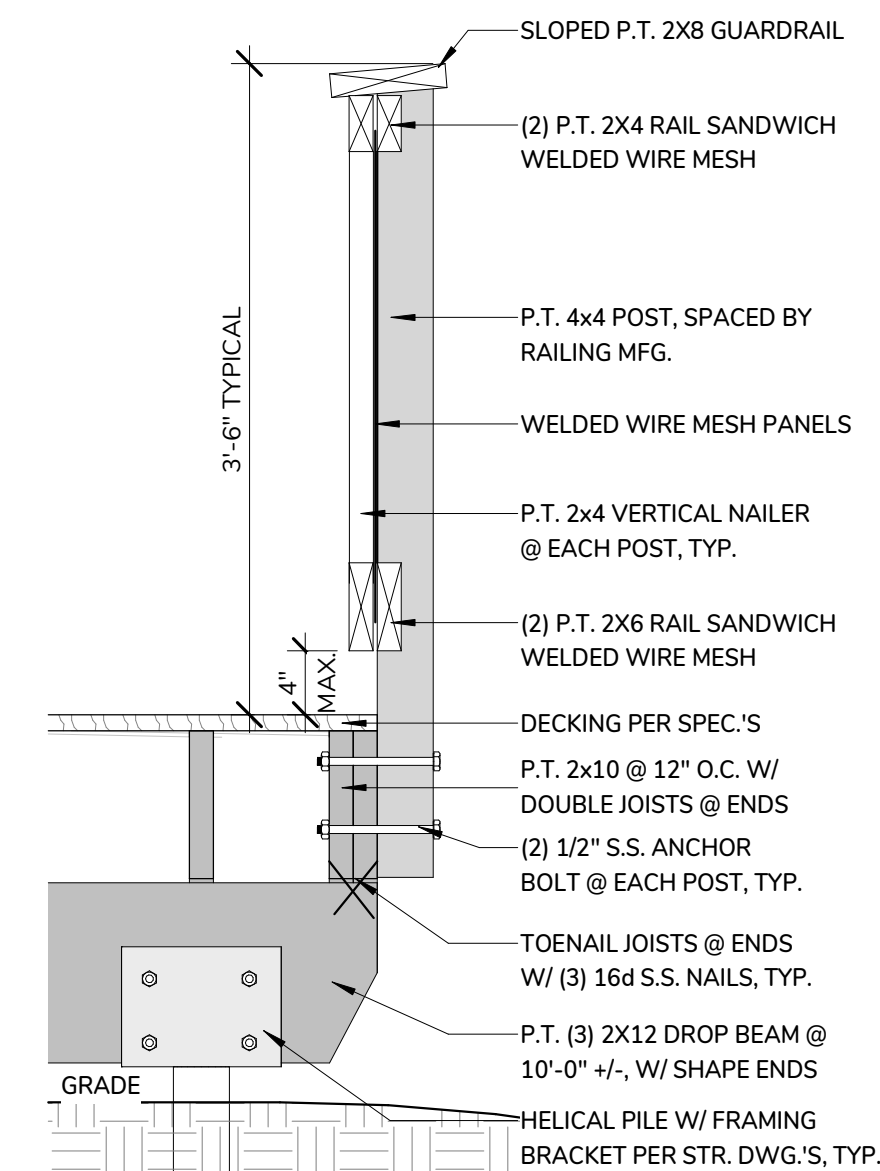
**2 CEDAR STOCKADE FENCE DETAIL**  
3/4" = 1'-0"



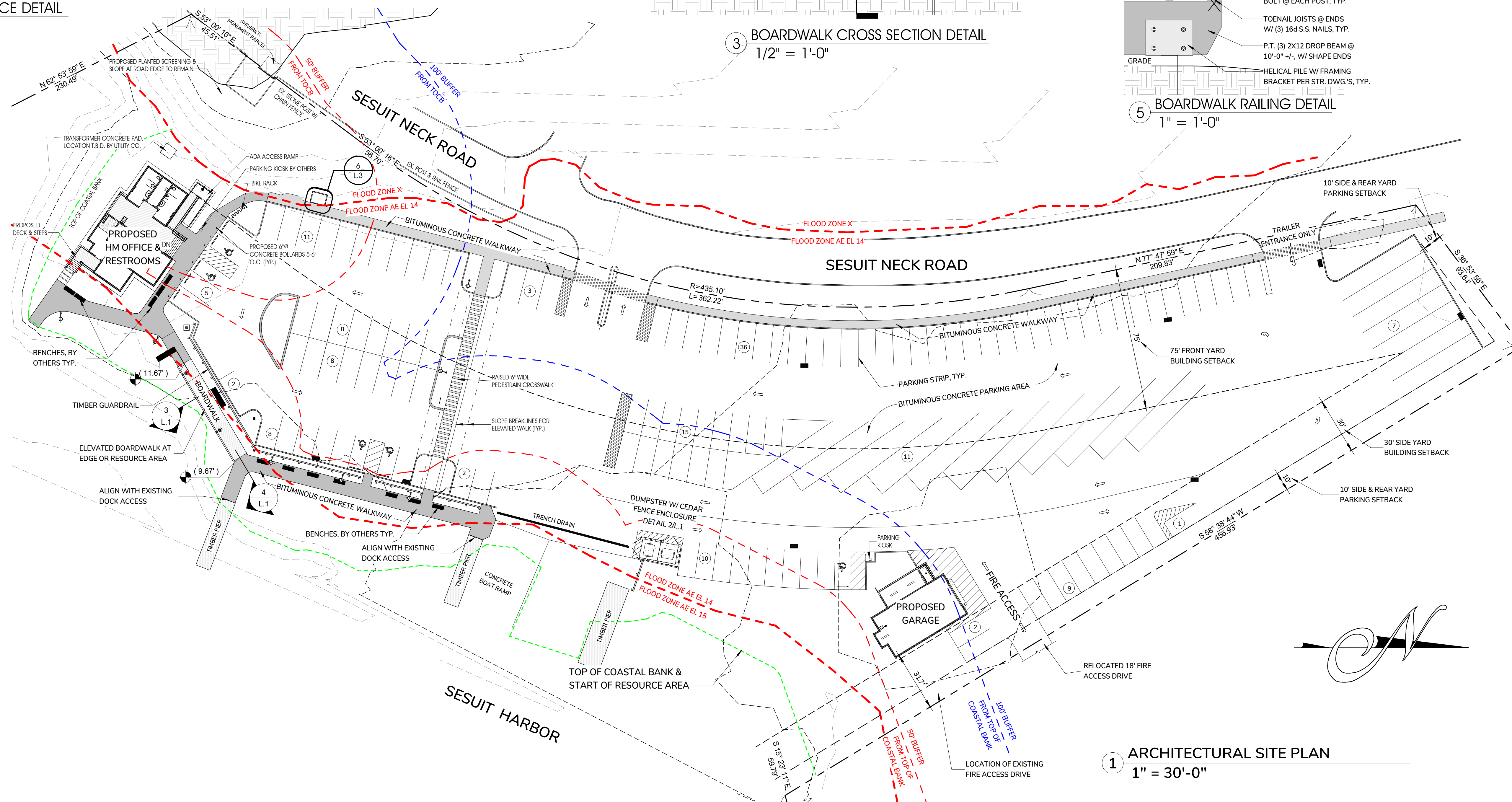
**4 BOARDWALK SECTION DETAIL**  
1/4" = 1'-0"



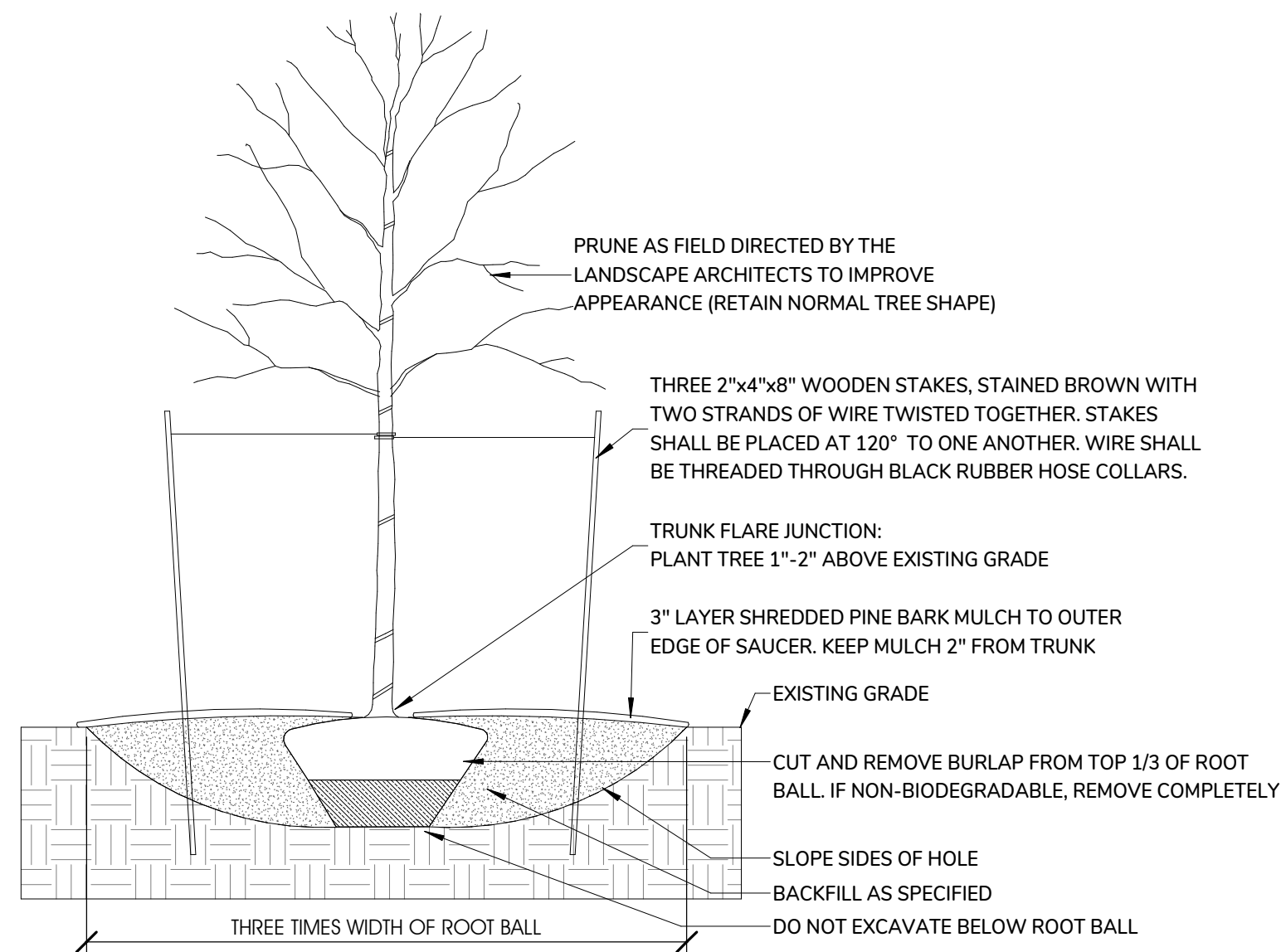
**3 BOARDWALK CROSS SECTION DETAIL**  
1/2" = 1'-0"



**5 BOARDWALK RAILING DETAIL**  
1" = 1'-0"



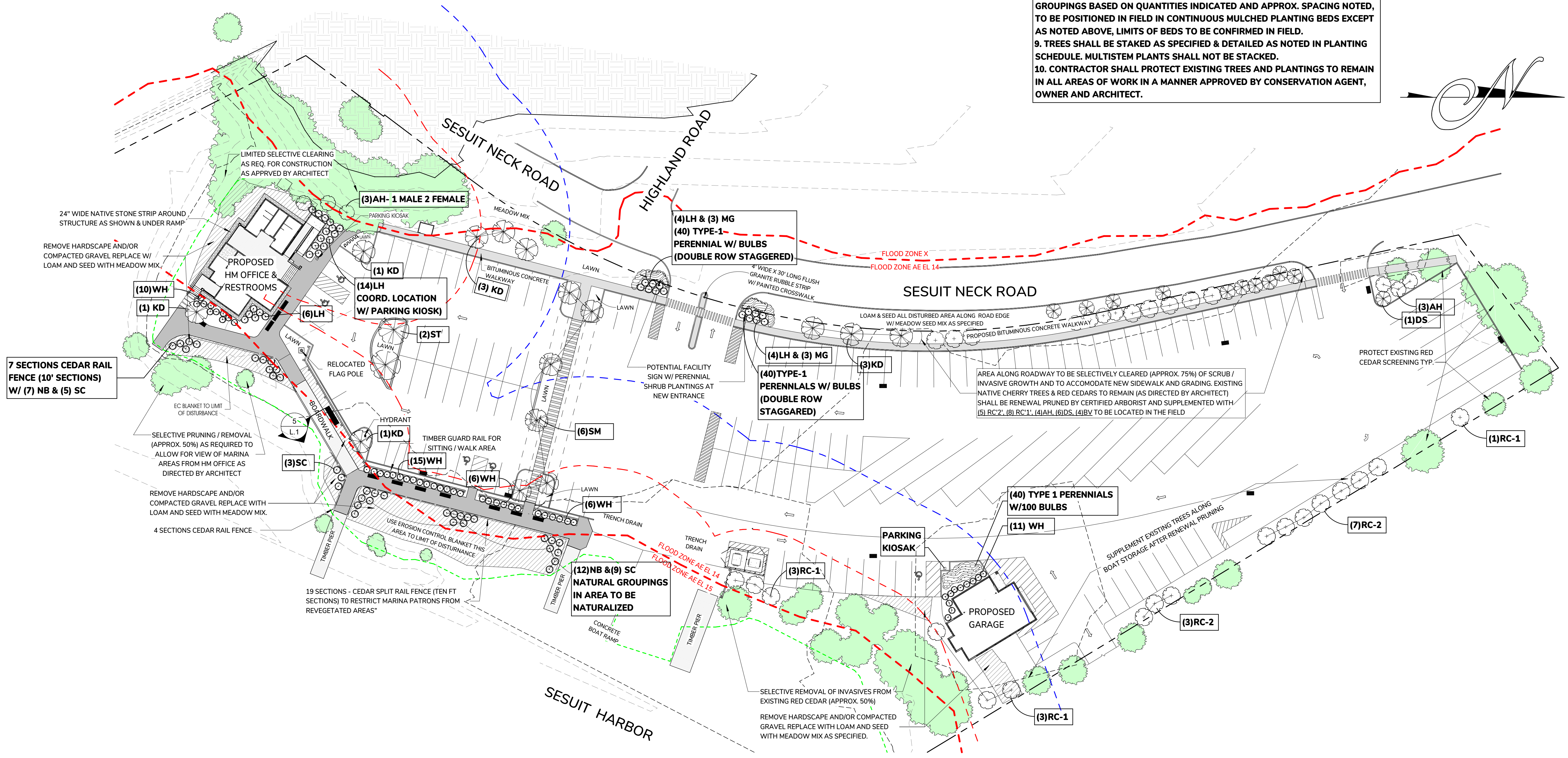
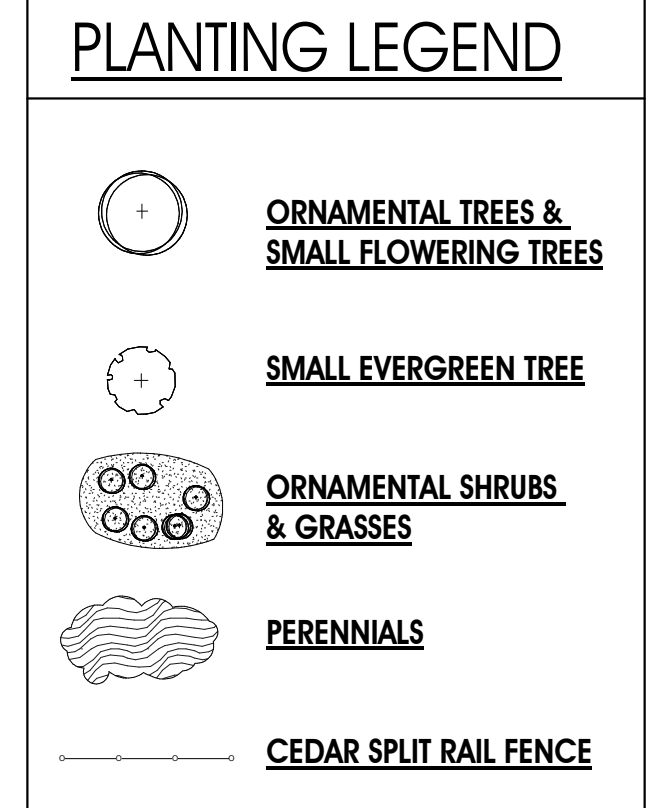
**1 ARCHITECTURAL SITE PLAN**  
1" = 30'-0"



TREE PLANTING DETAIL  
N.T.S.

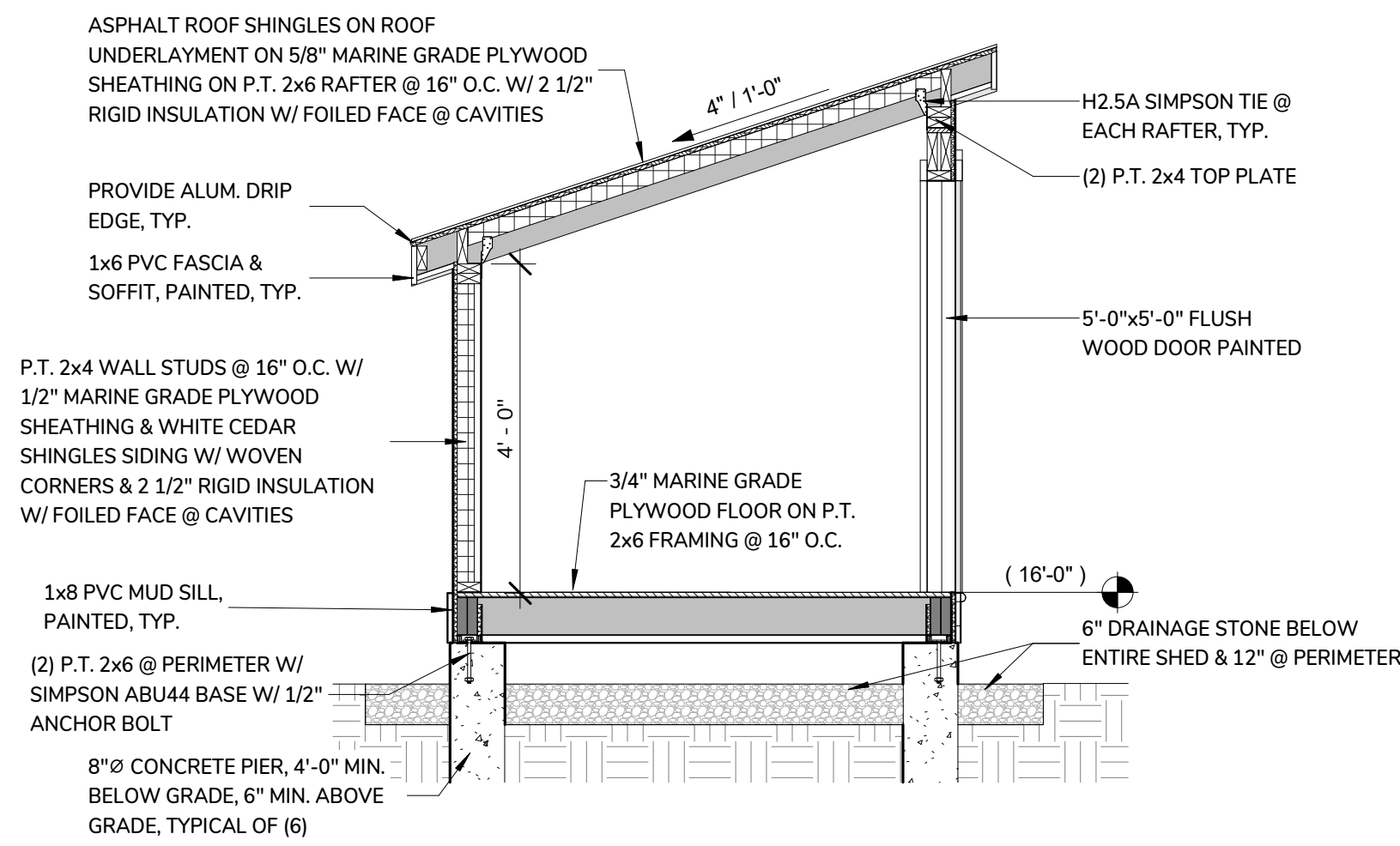
Count	SYM.	COMMON NAME	SCIENTIFIC NAME	Size	Comments
<b>1- ORNAMENTAL TREES AND SMALL FLOWERING TREE</b>					
2	ST	SCHOLAR TREE	SOPHORA JAPONICA 'REGENT'	2-2 1/2 IN CAL	B&B SINGLE STEM SPECIMAN (STAKED)
9	KD	KOUSA DOGWOOD	CORNUS KOUSA	9-10' HT.	B&B MULTISTEM SPECIMAN
7	DS	DOWNY SHADBLOW	AMELANCHIER CANADENSIS	7-8' HT.	B&B MULTISTEM - HEAVY
6	SM	SWEETBAY MAGNOLIA	MAGNOLIA VIRGINIANA	9-10' HT.	B+B MULTISTEM SPECIMAN
4	BV	BLACKHAW VIBURNUM	VIBURNUM PRUNIFOLIUM	6-7' HT.	B+B MULTISTEM
<b>2- SMALL EVERGREEN TREES</b>					
10	AH	AMERICAN HOLLY	ILEX AMERICANA	7-8' HT.	B&B - DENCE - 8 FEMALE, 2 MALE (STAKED)
10	RC-1	EASTERN REDCEDAR	JUNIPERUS VIRGINIANA	7-8' HT.	B&B (STAKED)
15	RC-2	EASTERN REDCEDAR	JUNIPERUS VIRGINIANA	5-6' HT.	B&B
<b>3- ORNAMENTAL SHRUBS &amp; GRASSES</b>					
28	LH	LACECAP HYDRANGEA	HYDRANGEA MACROPHYLLIS 'BLUEWAVE'	#5 POT	CONTAINER, 4-5 FT O.C. STAGGERED GROUPING
19	NB	NORTHERN BAYBERRY	MYRICA PENNSYLVANICA	#3 POT	CONTAINER, 4-5 FT O.C. STAGGERED GROUPING
48	WH	WINTERBERRY HOLLY 'RED SPRITE'	ILEX VERTICILLATA 'RED SPRITE'	#3 POT	CONTAINER, 4-5 FT O.C. STAGGERED GROUPING
17	SC	SUMMERSWEET CLETHRA	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	#3 POT	CONTAINER, 4-5 FT O.C. STAGGERED GROUPING
6	MG	MAIDEN GRASS	MISCANTHUS GRACILLIMUS	#5 POT	CONTAINER, 4-5 FT O.C. STAGGERED GROUPING
<b>6- PERENNIALS</b>					
120	TYPE - 1	STELLA D' ORO AND RED TOKEN	HEMEROCALLIS / DAFFODILS	#1 POT & LARGE BULBS	CONTAINER 50/50 DAYLILY MIX - STAGGERED ROWS
300		DAYLILY			- WITH STELLAS IN FRONT OF RED TOKEN, INSTALL 100 BULBS IN NATURAL DRIFTS IN EACH DAYLILY PLANTING
		DAFFODILS			

- NOTES:**
1. SELECTIVE CLEARING @ 75% OF EXISTING VEGETATION AND PRUNING SHALL BE BY CERTIFIED ARBORIST, AS NOTED UNDER DIRECTION OF OWNER, ARCHITECT AND CONSERVATION AGENT. WORK TO INCLUDE REMOVAL OF SCRUB & INVASIVE GROWTH, WITH RENEWAL PRUNING OF PLANTS TO REMAIN, AND ADDITION OF NEW PLANTINGS TO REINFORCE BUFFER, AS NOTED.
  2. ALL SELECTED PLANTS WILL BE TOLERANT TO SEASHORE CONDITIONS INCLUDING SALT SPRAY, WIND AND POOR / DROUGHT SOILS. MAJORITY OF PLANTINGS WILL BE NATIVE WITH SOME INTRODUCED SPECIES FOR SEASHORE TOLERANCE AND SEASONAL INTEREST.
  3. ALL DISTURBED AREAS TO BE LOAMED AND SEEDED WITH MEADOW MIX AS SPECIFIED. LAWN MIX IN NOTED AREAS AS SPECIFIED.
  4. STRUCTURES TO BE SURROUNDED BY 24" WIDE x 6" DEEP BORDER OF 3/4" NATIVE WASTED STONE AS SPECIFIED AND IN LOCATIONS, AS NOTED ON PLAN.
  5. SHRUB & PERENNIAL BEDS IN LAWN & PARKING AREA AND AROUND BUILDINGS TO BE MULCHED WITH 3 INCH LAYER OF SHREDDED PINE BARK MULCH AS SPECIFIED. AREA PLANTED IN MEADOW AREA SEED MIX SHALL NOT HAVE MULCHED AREAS EXCEPT PLANTINGS AT ENTRANCE AND BETWEEN PARKING AREA AND ROADWAY.
  6. ALL PLANT LOCATIONS TO BE STAKED OR POSITIONED ON SITE FOR REVIEW BY ARCHITECT AND OWNER PRIOR TO INSTALLATION.
  7. ALL DISTURBED AREAS NOT COVERED IN PAVEMENTS, BUILDINGS OR MULCHED PLANTING BEDS, BOARDWALKS TO BE LOAMED & SEEDED WITH MEADOW AREA SEED MIX UNLESS OTHERWISE NOTED.
  8. ALL SHRUBS AND PERENNIALS TO BE PLANTED IN STAGGERED NATURAL GROUPINGS BASED ON QUANTITIES INDICATED AND APPROX. SPACING NOTED, TO BE POSITIONED IN FIELD IN CONTINUOUS MULCHED PLANTING BEDS EXCEPT AS NOTED ABOVE, LIMITS OF BEDS TO BE CONFIRMED IN FIELD.
  9. TREES SHALL BE STAKED AS SPECIFIED & DETAILED AS NOTED IN PLANTING SCHEDULE. MULTISTEM PLANTS SHALL NOT BE STACKED.
  10. CONTRACTOR SHALL PROTECT EXISTING TREES AND PLANTINGS TO REMAIN IN ALL AREAS OF WORK IN A MANNER APPROVED BY CONSERVATION AGENT, OWNER AND ARCHITECT.

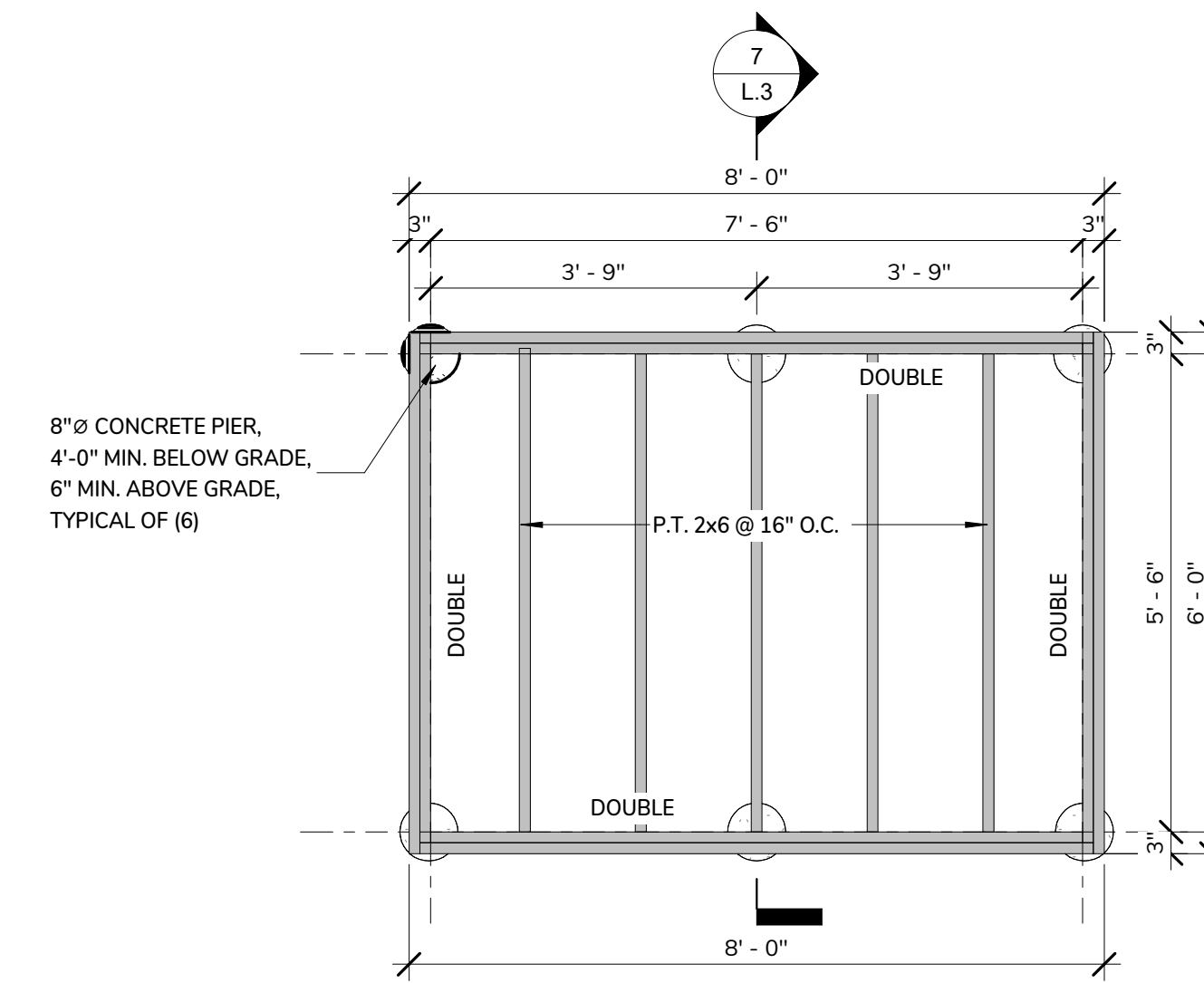


1 LANDSCAPE PLAN  
1" = 30'-0"

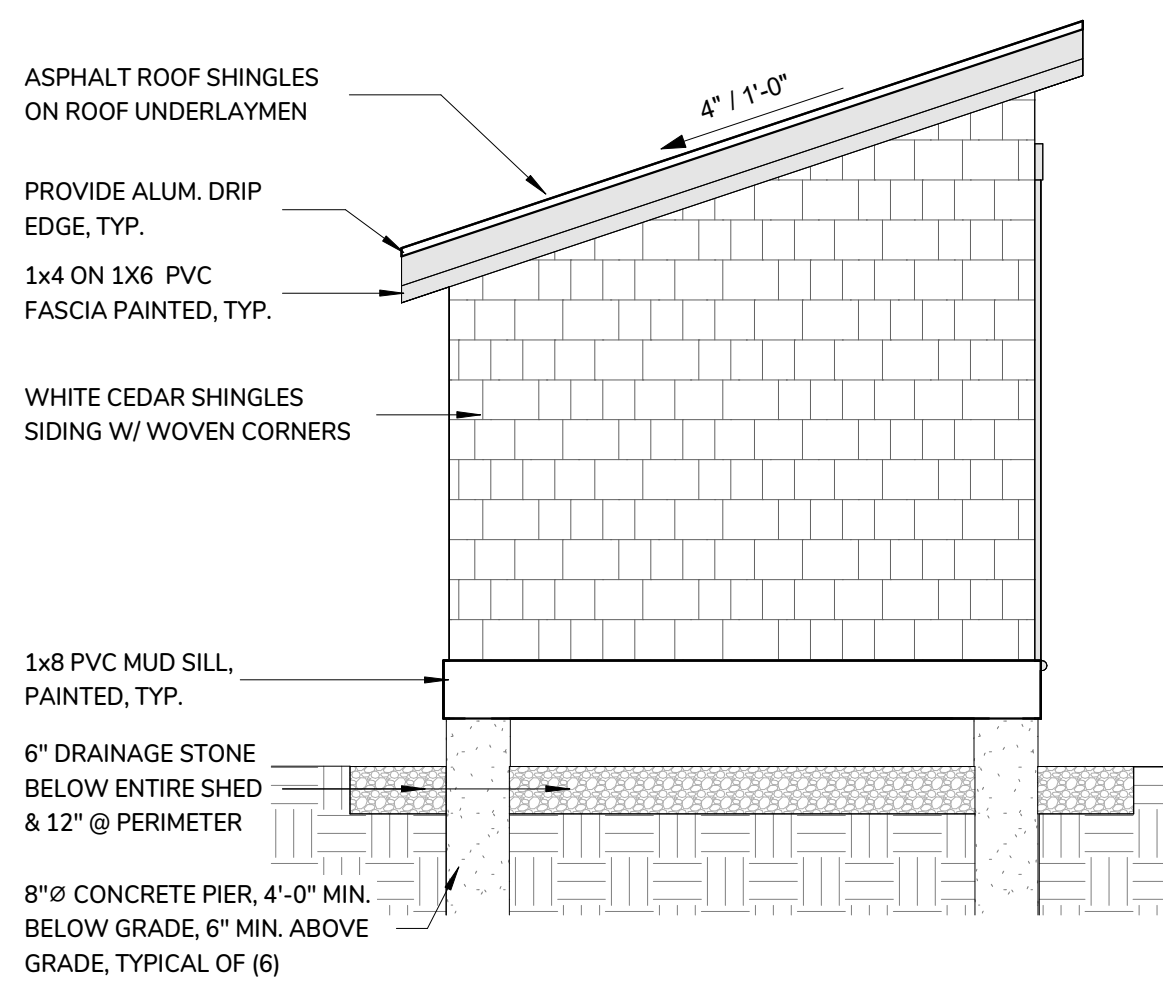
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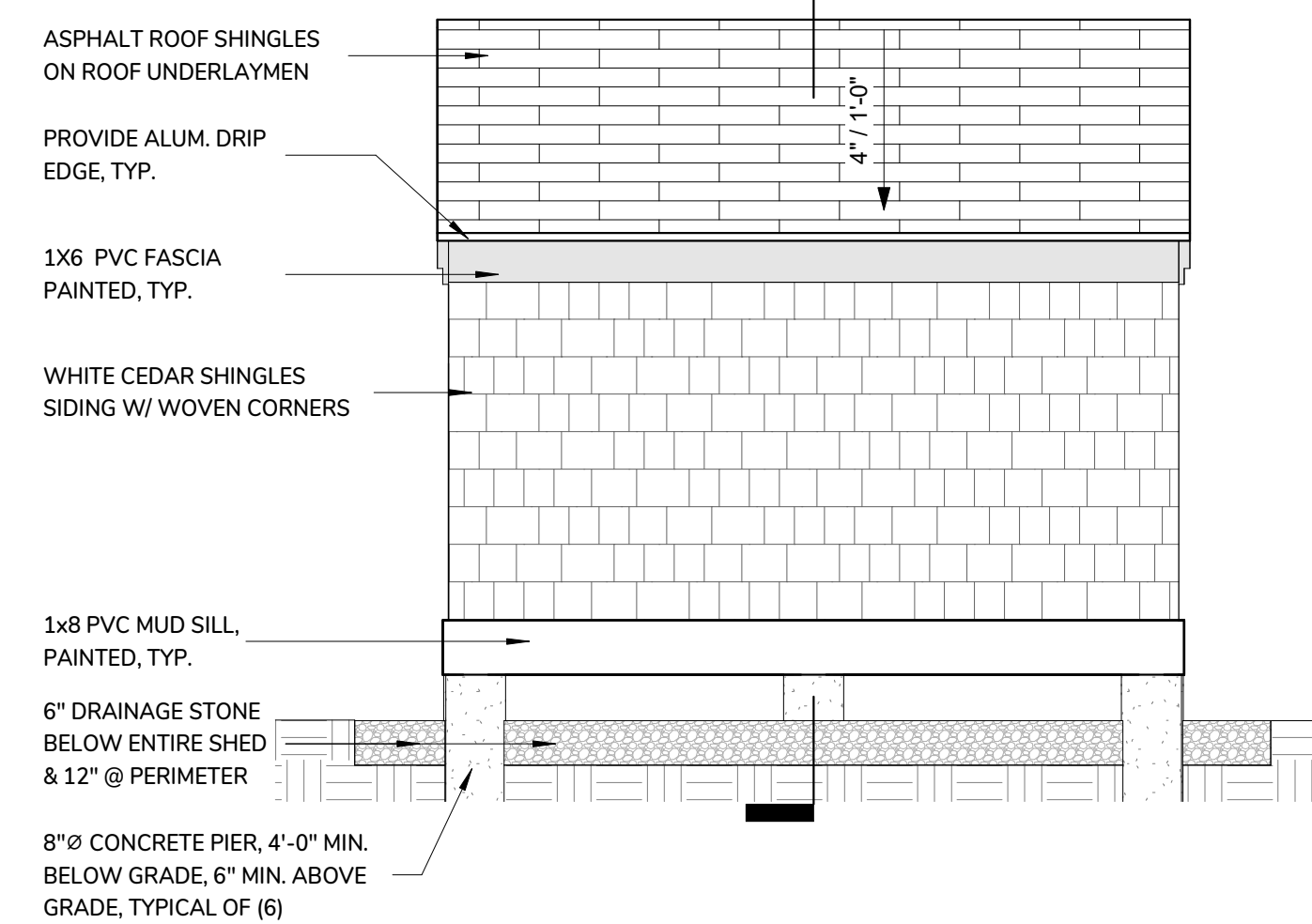
7 CHEMICAL SHED SECTION  
1/2" = 1'-0"



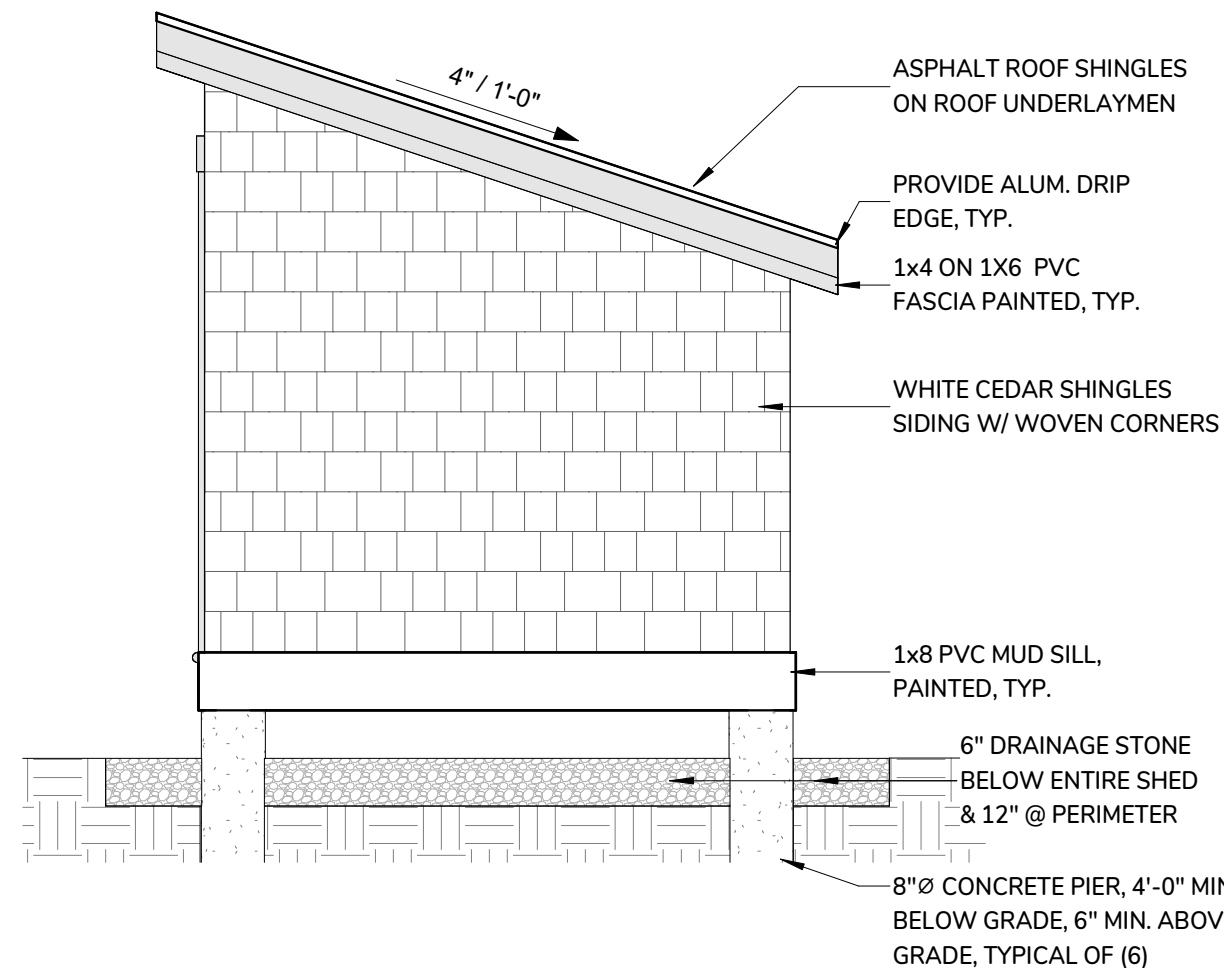
6 CHEMICAL SHED FLOOR FRAMING PLAN  
1/2" = 1'-0"



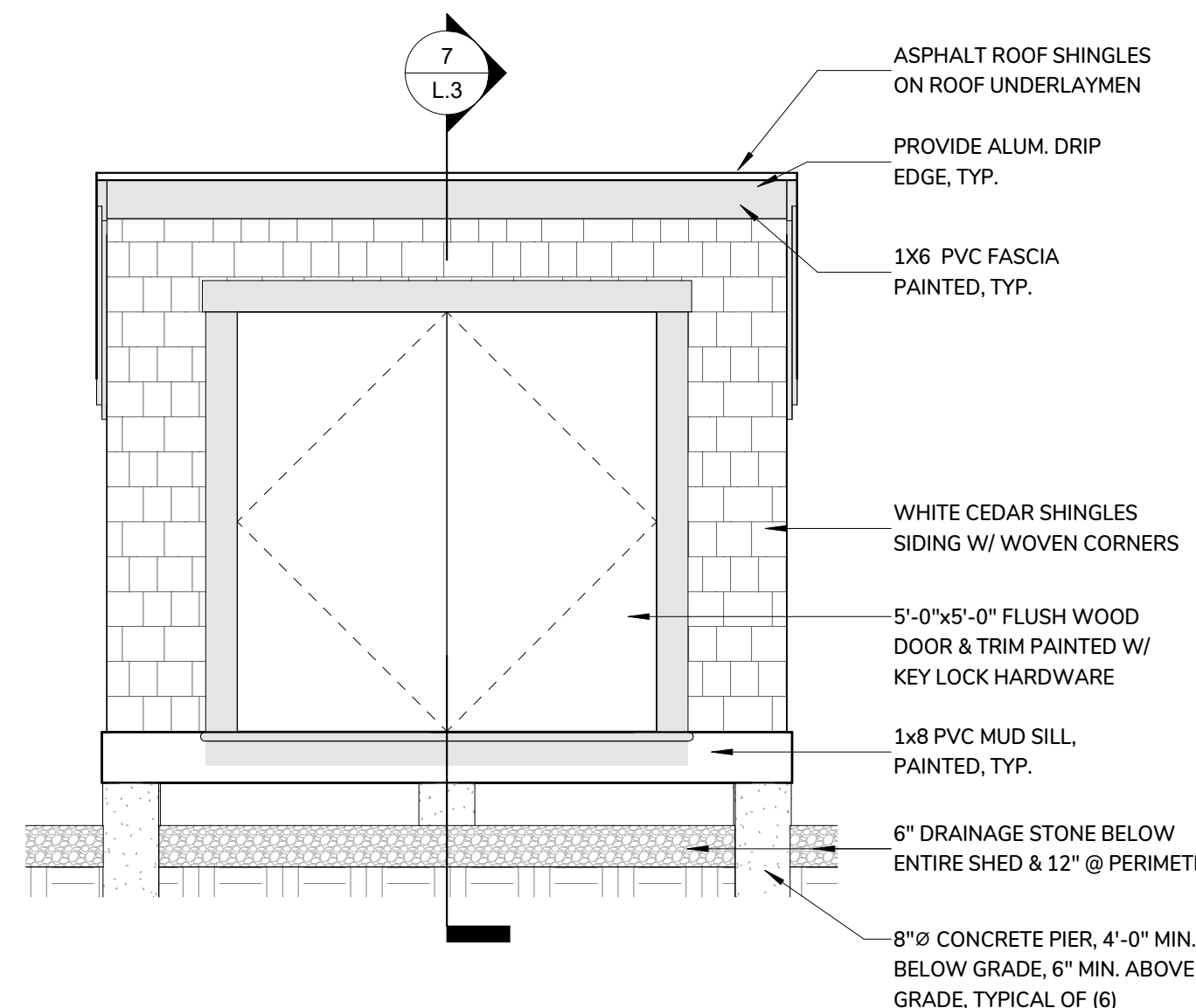
5 SHED ELEVATION - D  
1/2" = 1'-0"



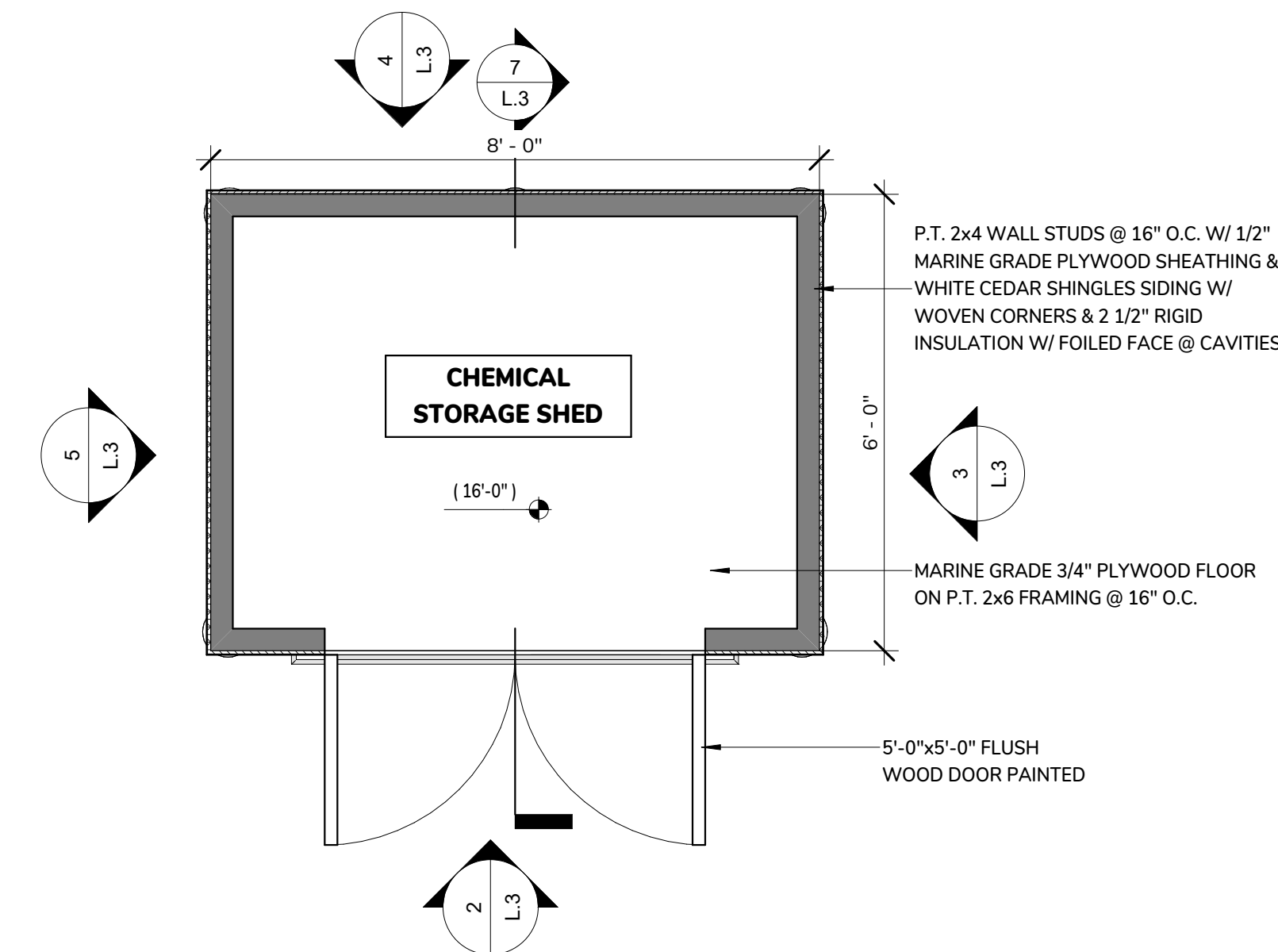
4 SHED ELEVATION - C  
1/2" = 1'-0"



3 SHED ELEVATION - B  
1/2" = 1'-0"



2 SHED ELEVATION - A  
1/2" = 1'-0"



1 CHEMICAL SHED FLOOR PLAN  
1/2" = 1'-0"



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TOWN OF DENNIS**

351 SESUIT HARBOR ROAD  
DENNIS, MA 02660

TITLE:  
**HARBORMASTER  
OFFICE GRADE  
LEVEL PLAN**

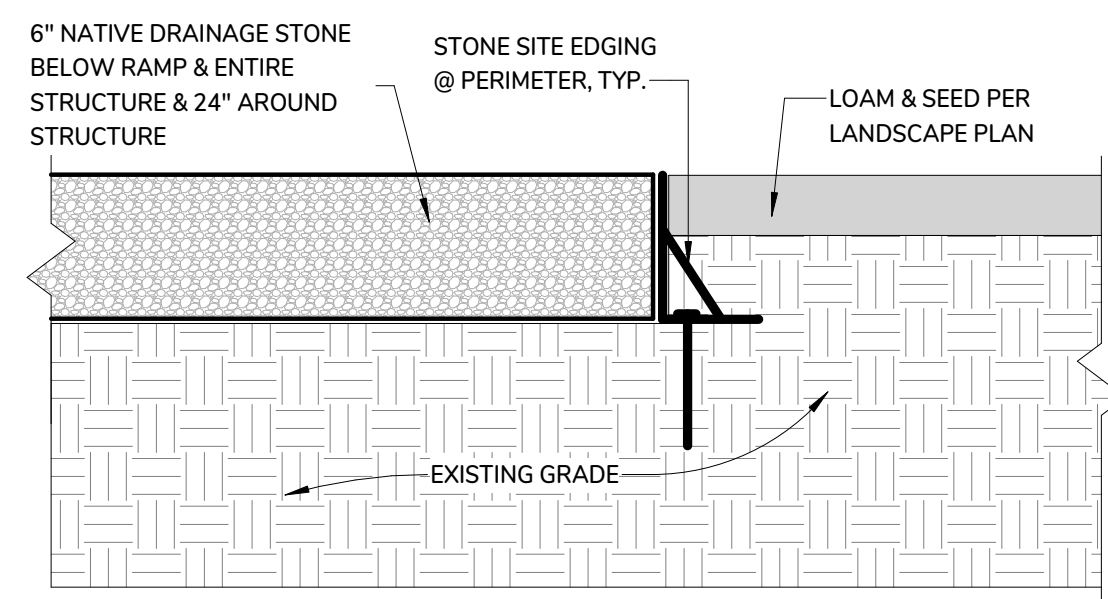
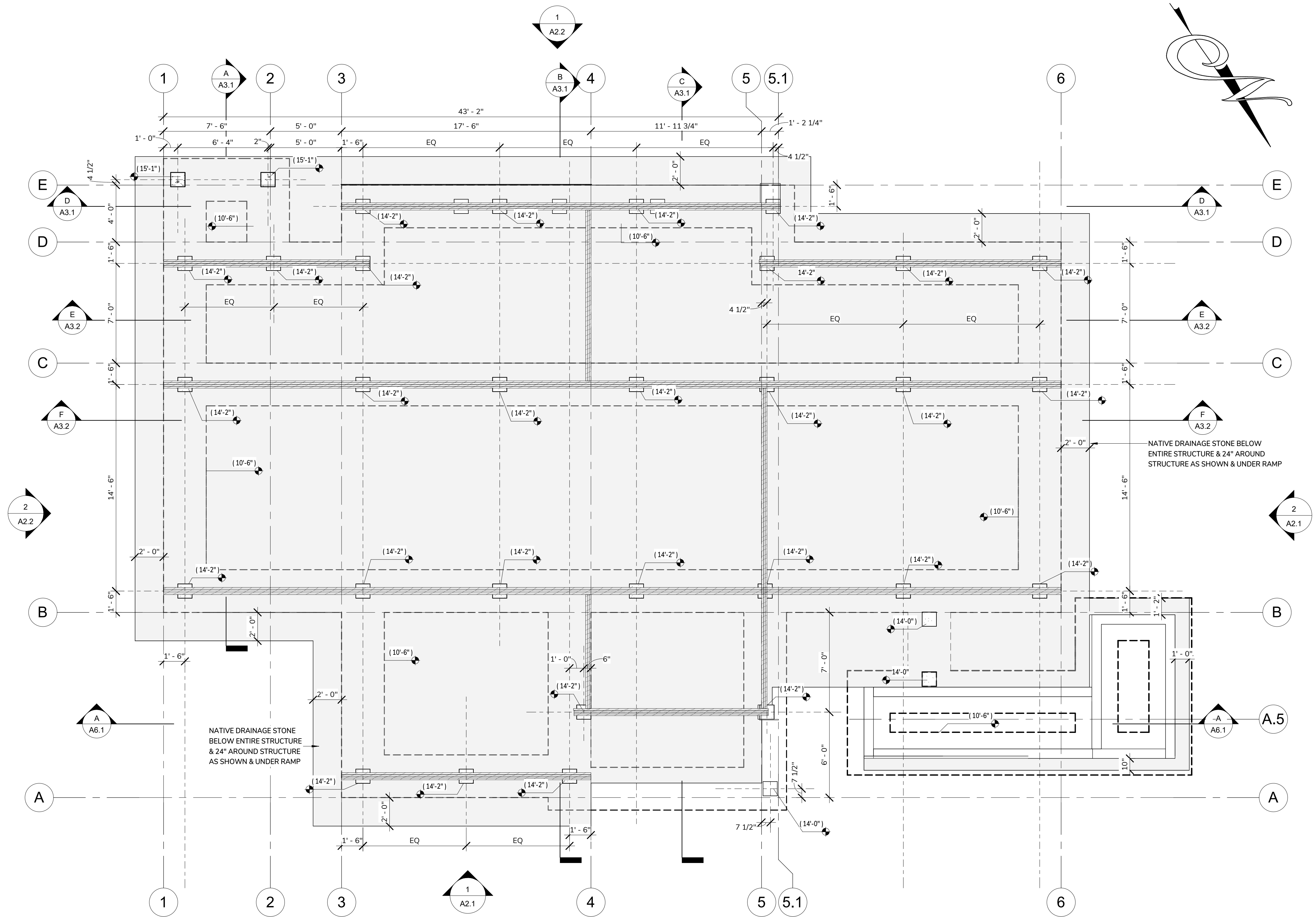
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2 **STONE EDGING DETAIL**  
1 1/2" = 1'-0"

1 **HARBORMASTER OFFICE - GRADE LEVEL PLAN**  
1/4" = 1'-0"

**NOTE: PLAN SHOWN FOR REFERENCE PURPOSES -  
STRUCTURAL DRAWINGS SHALL TAKE PRECEDENT -  
ANY CONFLICTS SHALL BE BROUGHT TO THE  
ATTENTION OF THE ARCHITECT**

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TOWN OF DENNIS**

351 SESUIT HARBOR ROAD  
DENNIS, MA 02660

TITLE:  
**HARBORMASTER  
OFFICE -  
FLOOR PLAN**

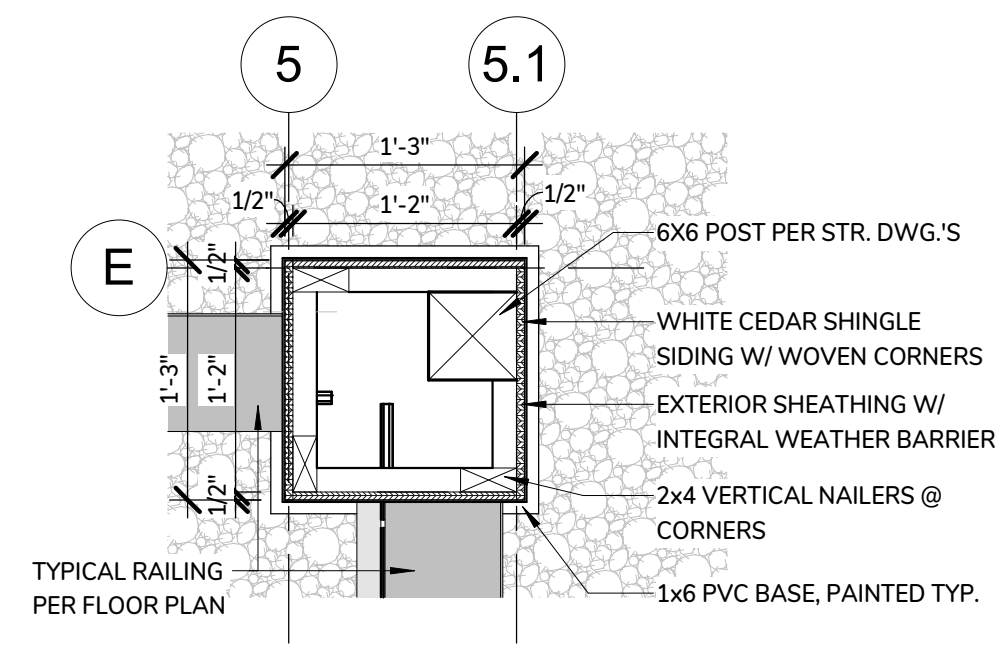
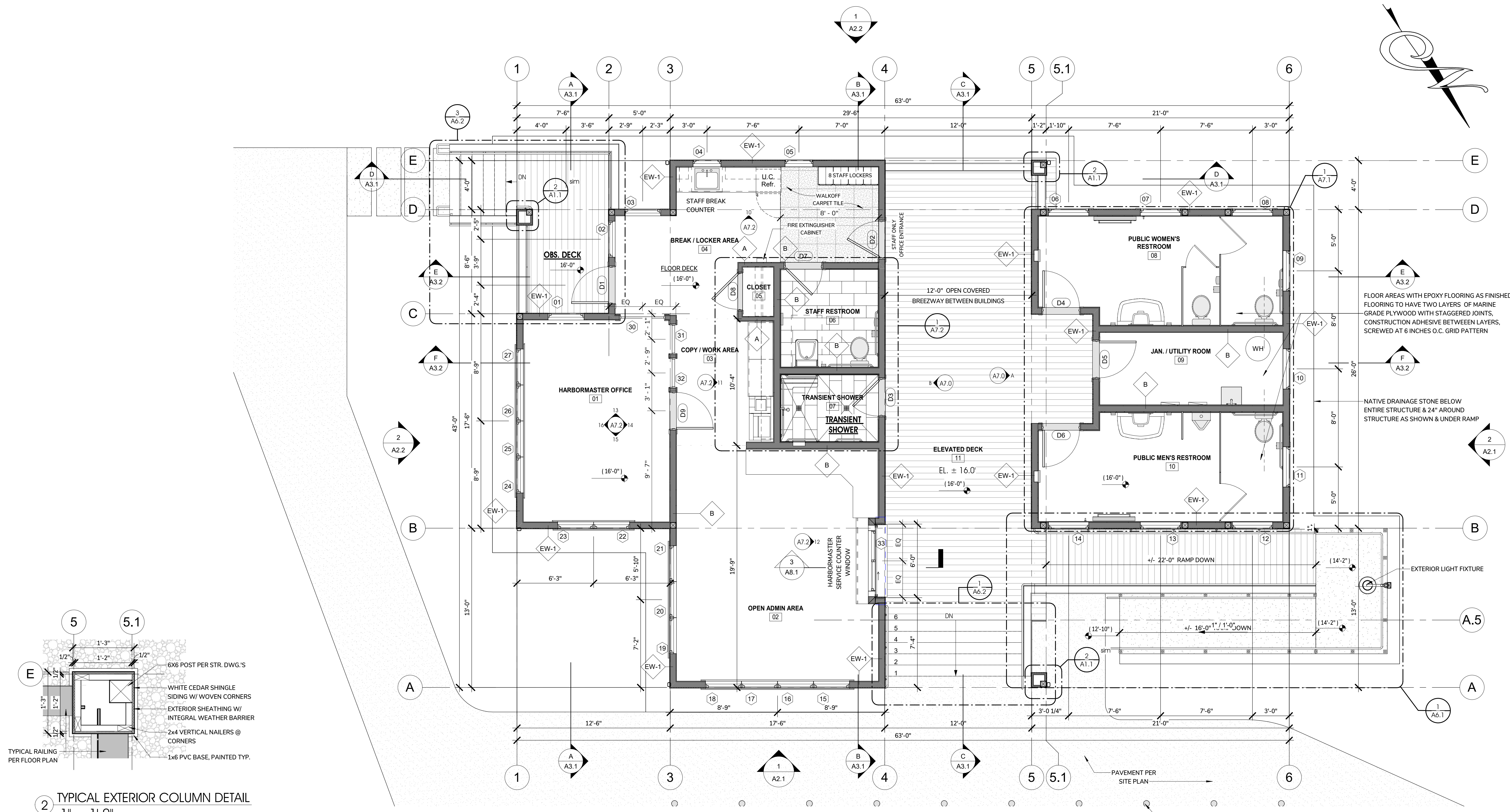
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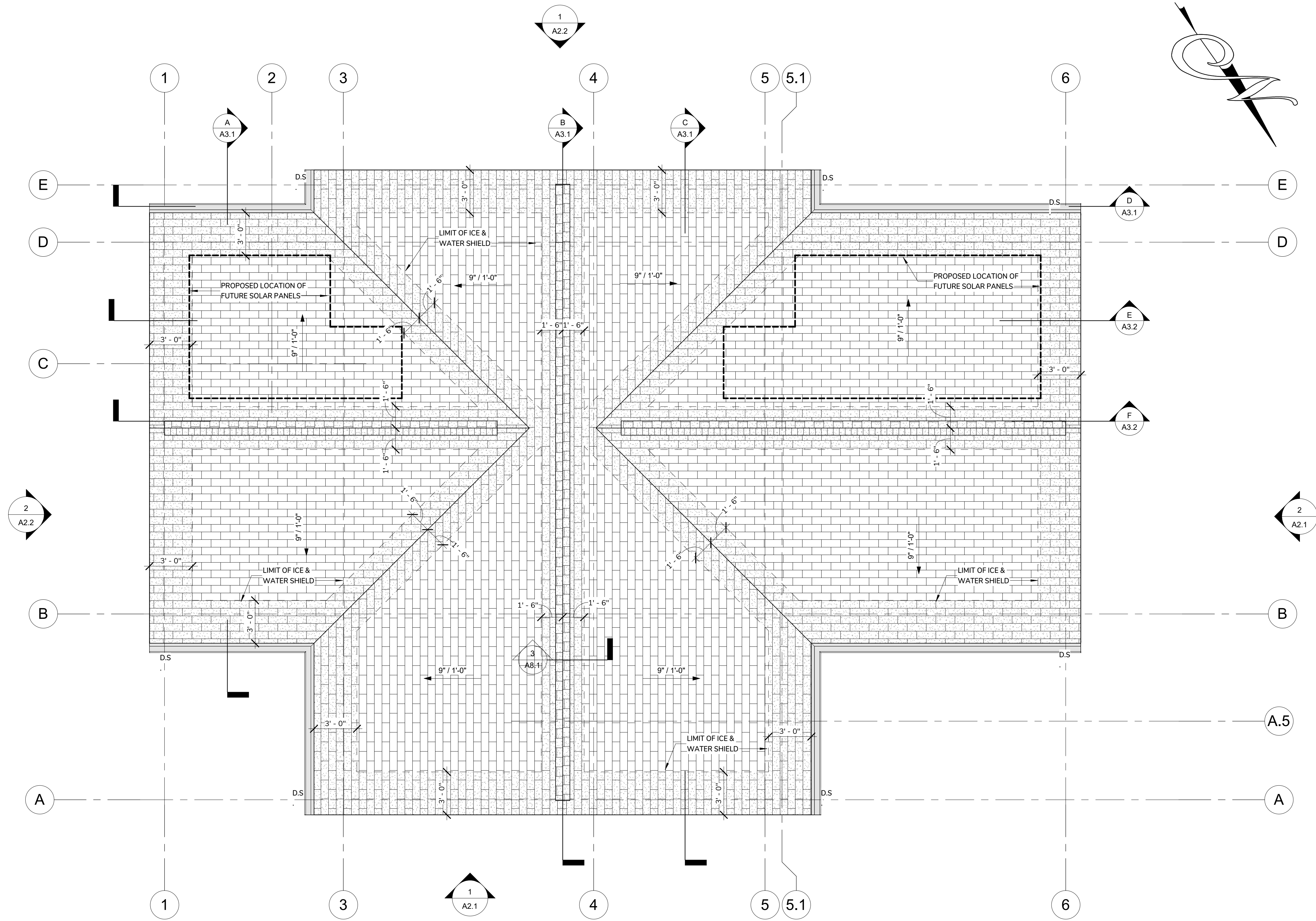


2 TYPICAL EXTERIOR COLUMN DETAIL  
1" = 1'-0"

1 HARBORMASTER OFFICE - MAIN FLOOR PLAN  
1/4" = 1'-0"

**HARBORMASTER OFFICE + PUBLIC RESTROOMS & UTILITY GROSS AREA = 1,506 G.S.F.**  
**OPEN BREEZEWAY, STAIRS & RAMPS AREA = 960 G.S.F.**  
**TOTAL BUILDING FOOTPRINT INCLUDING BREEZEWAY, STAIRS & RAMPS = 2,466 G.S.F.**

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1 HARBORMASTER OFFICE - ROOF PLAN  
 1/4" = 1'-0"

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SESUIT HARBOR IMPROVEMENTS

TOWN OF DENNIS  
 351 SESUIT HARBOR ROAD  
 DENNIS, MA 02660

TITLE:  
 HARBORMASTER  
 OFFICE ROOF  
 PLAN

DATE ISSUED: 08 . 01 . 2025

Revisions

DRAWN BY: Author

PROJECT #:

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**TOWN OF DENNIS**

351 SESUIT HARBOR ROAD  
DENNIS, MA 02660

TITLE:  
**HARBORMASTER  
OFFICE -  
REFLECTED  
CEILING PLAN**

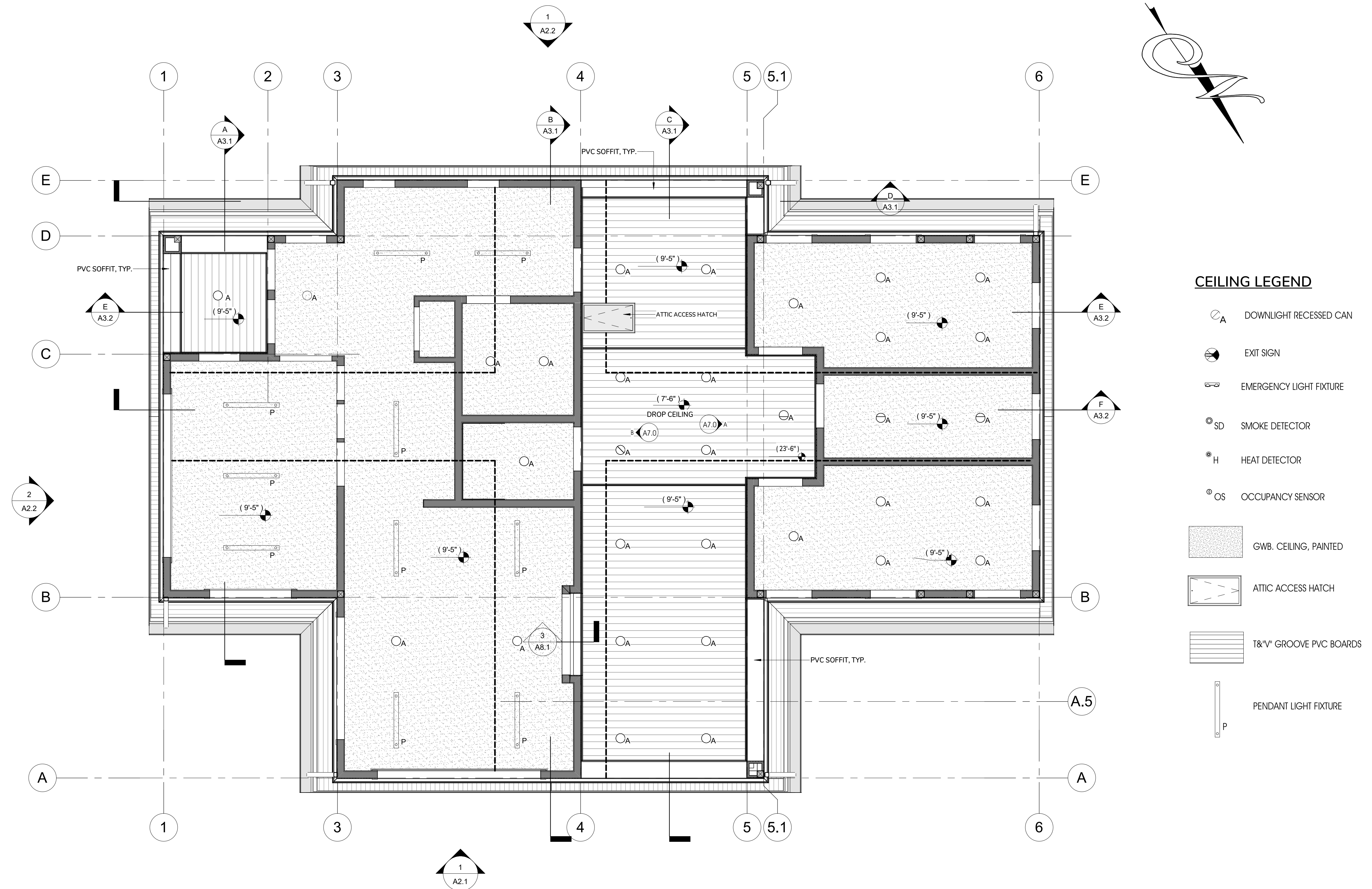
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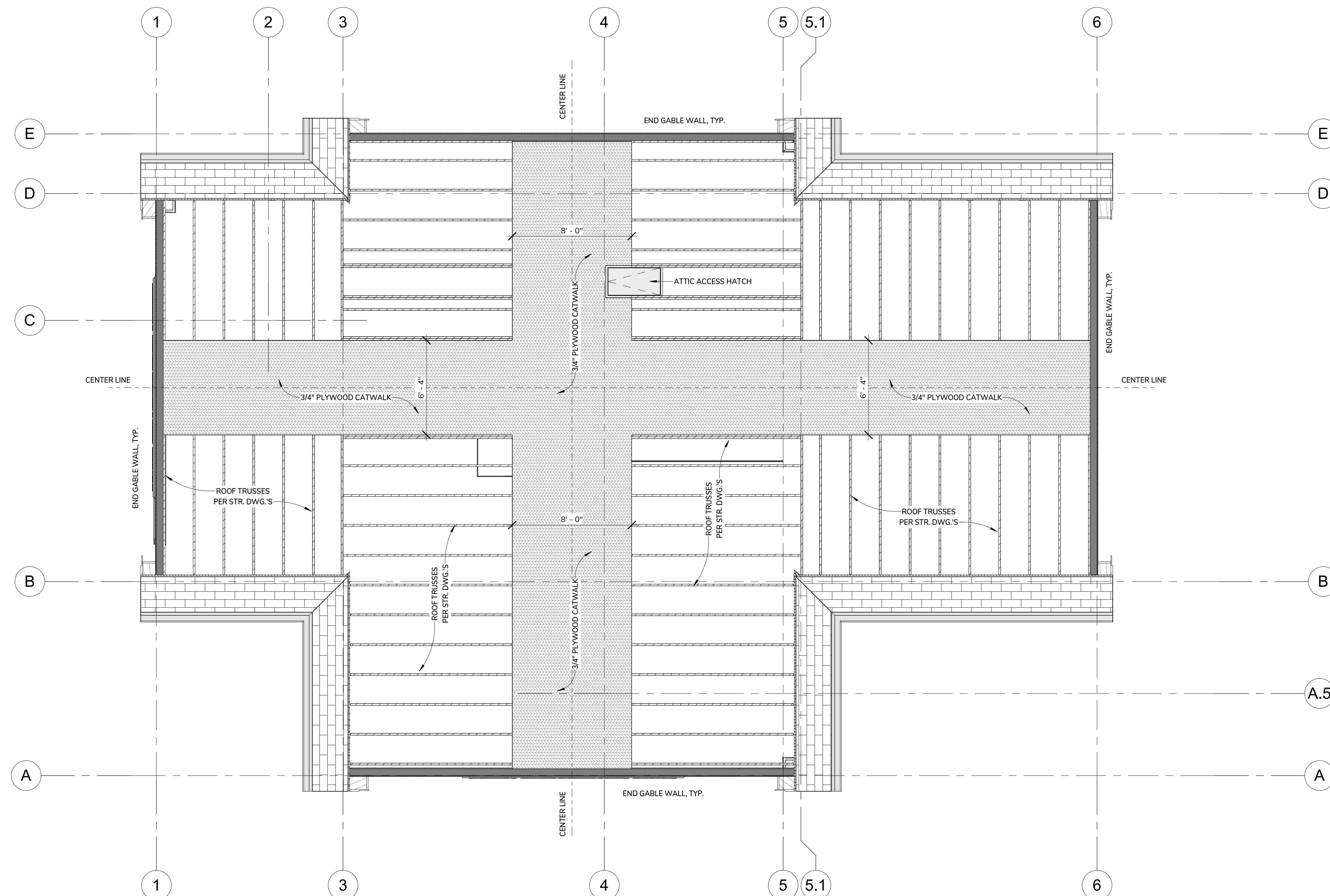


**CEILING LEGEND**

- DOWNLIGHT RECESSED CAN
- EXIT SIGN
- EMERGENCY LIGHT FIXTURE
- SMOKE DETECTOR
- HEAT DETECTOR
- OCCUPANCY SENSOR
- GWB. CEILING, PAINTED
- ATTIC ACCESS HATCH
- T&V GROOVE PVC BOARDS
- PENDANT LIGHT FIXTURE

**1 HARBORMASTER REFLECTED CEILING PLAN**  
1/4" = 1'-0"

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1 HARBORMASTER OFFICE - ATTIC LEVEL PLAN  
 1/4" = 1'-0"

STAMP:



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 TOWN OF DENNIS**  
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 DENNIS, MA 02660

TITLE:  
 HARBORMASTER  
 OFFICE - ATTIC  
 LEVEL PLAN

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TOWN OF DENNIS**

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DENNIS, MA 02660

TITLE:  
**HARBORMASTER  
GARAGE  
GRADE &  
FLOOR PLANS**

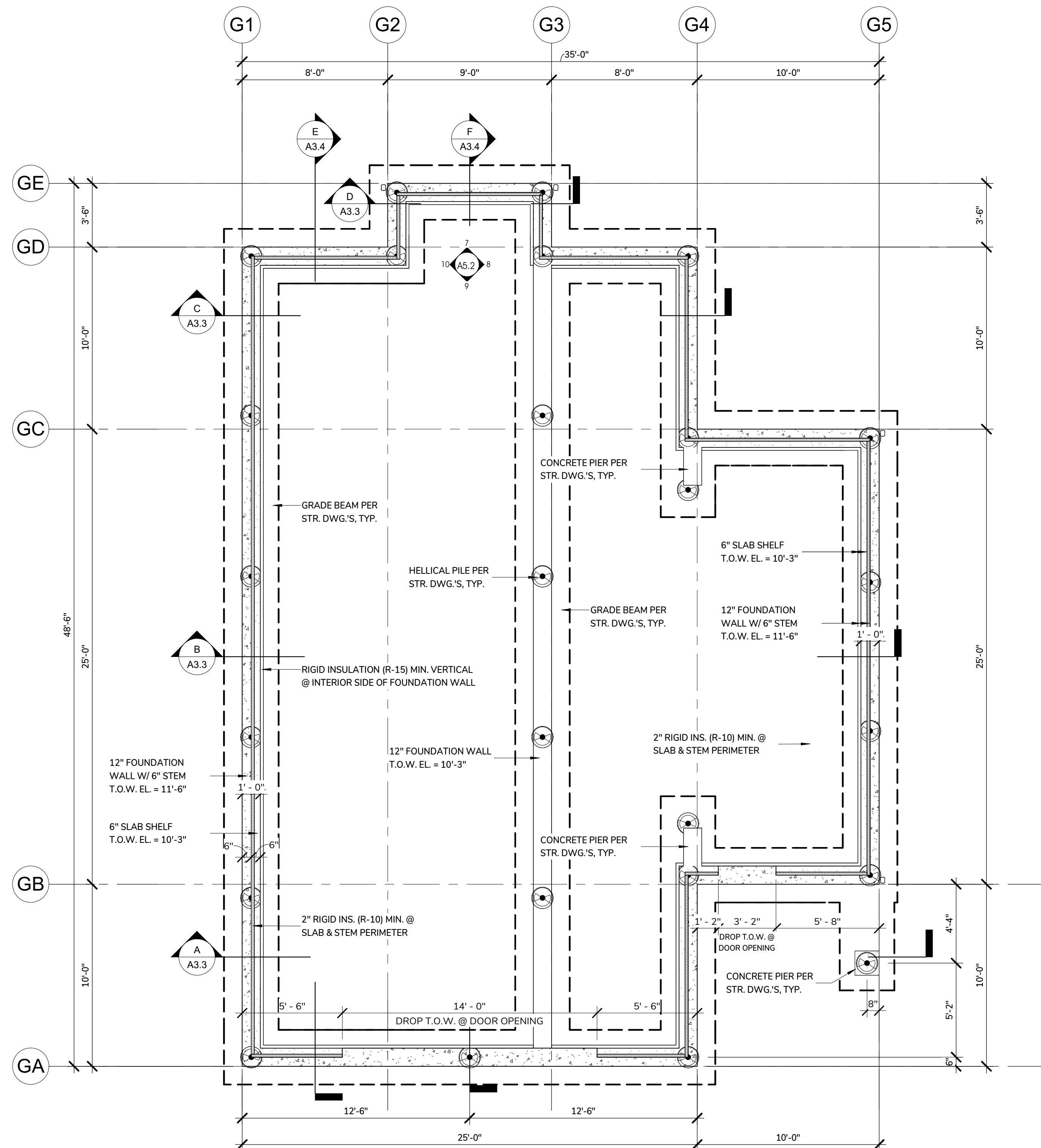
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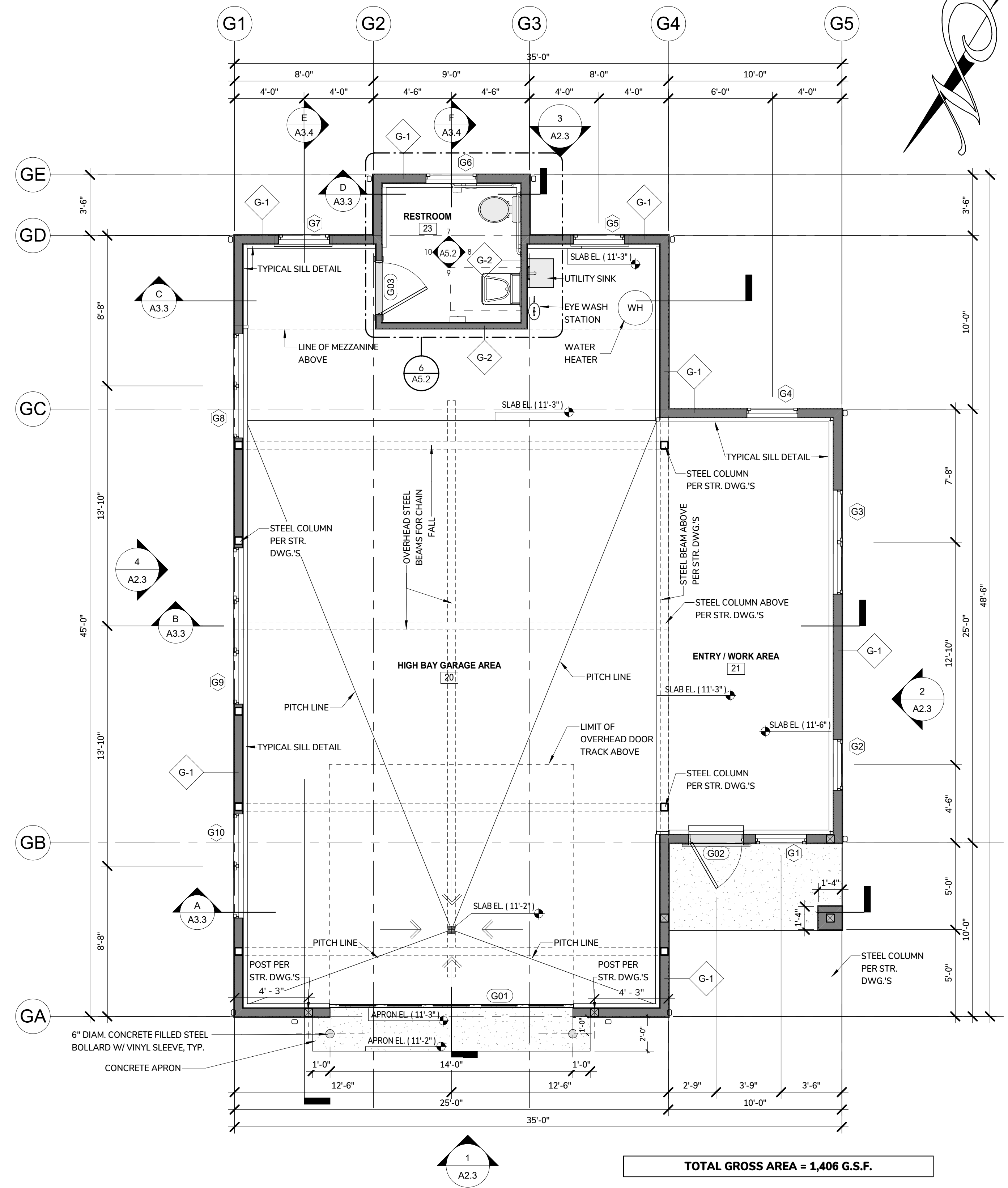
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ATTENTION OF THE ARCHITECT**

① Garage Footing (Coordinate w/ Structural Drawings)  
1/4" = 1'-0"



**TOTAL GROSS AREA = 1,406 G.S.F.**

② HARBORMASTER GARAGE - FLOOR PLAN  
1/4" = 1'-0"

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Addendum 0001 - Review Information for Harbormaster

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SESUIT HARBOR IMPROVEMENTS

TOWN OF DENNIS  
351 SESUIT HARBOR ROAD  
DENNIS, MA 02660

TITLE:  
HARBORMASTER  
GARAGE ROOF &  
REFLECTED  
CEILING PLAN

DATE ISSUED: 08 . 01 . 2025

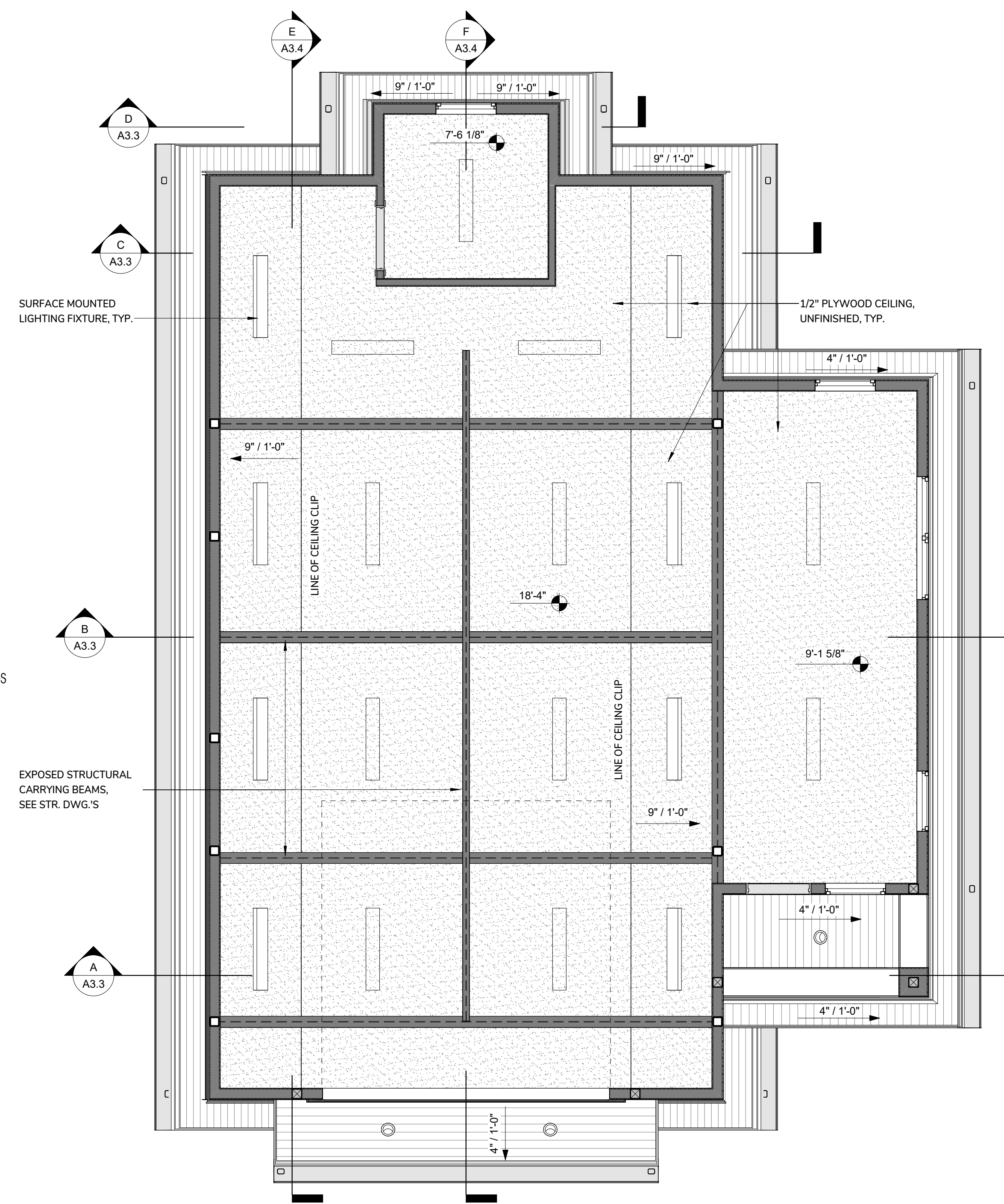
Revisions

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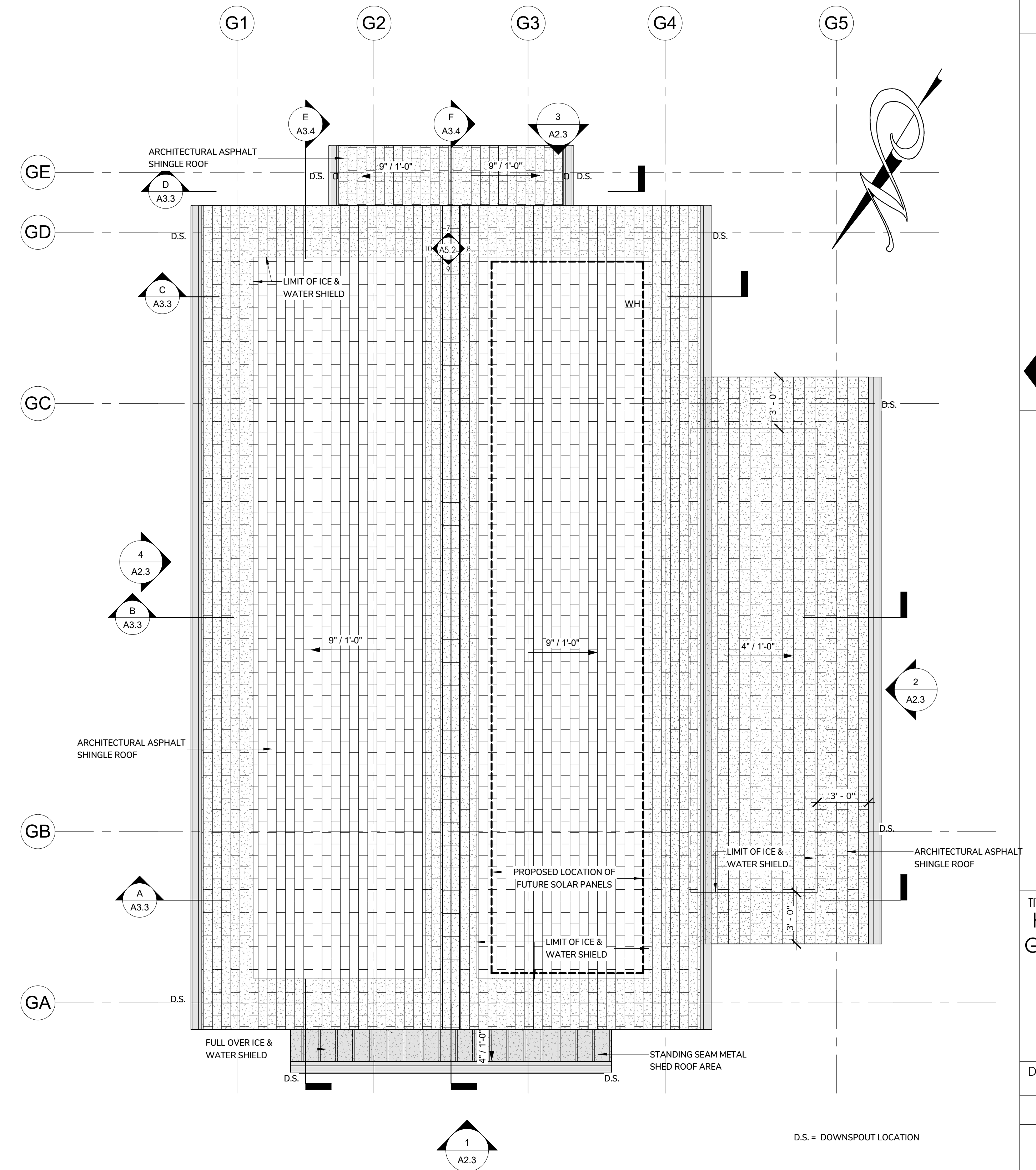
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DRAWING NO.:

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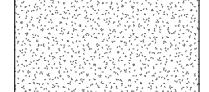
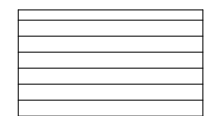


2 HARBORMASTER GARAGE REFLECTED CEILING PLAN  
1/4" = 1'-0"



1 HARBORMASTER GARAGE - ROOF PLAN  
1/4" = 1'-0"

CEILING LEGEND

-  DOWNLIGHT RECESSED CAN
-  SURFACE MOUNTED LIGHT FIXTURE
-  GWB. CEILING, PAINTED
-  T&V GROOVE PVC BOARDS

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DENNIS, MA 02660

TITLE:  
**HARBORMASTER OFFICE - BUILDING ELEVATIONS**

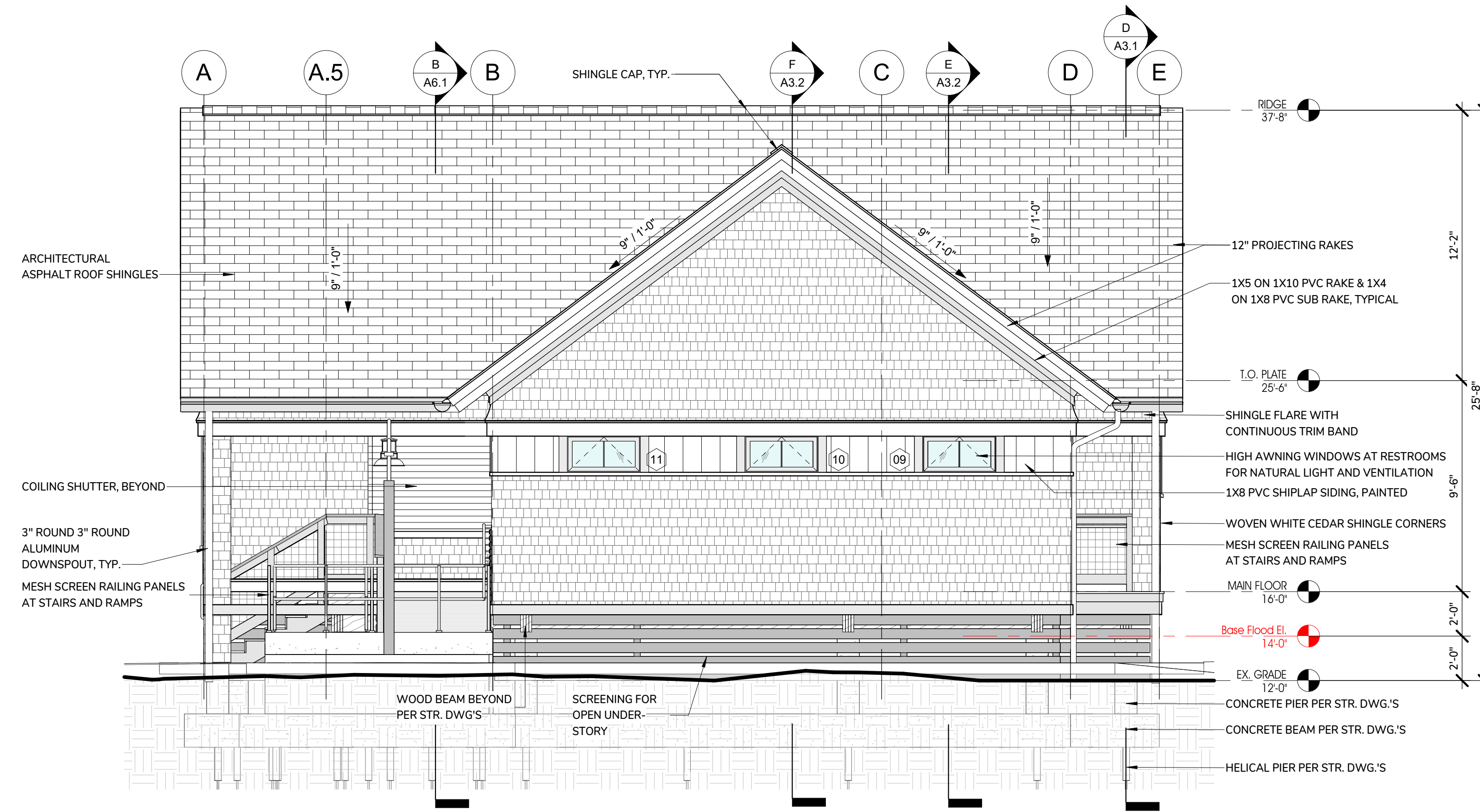
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No. Description Date

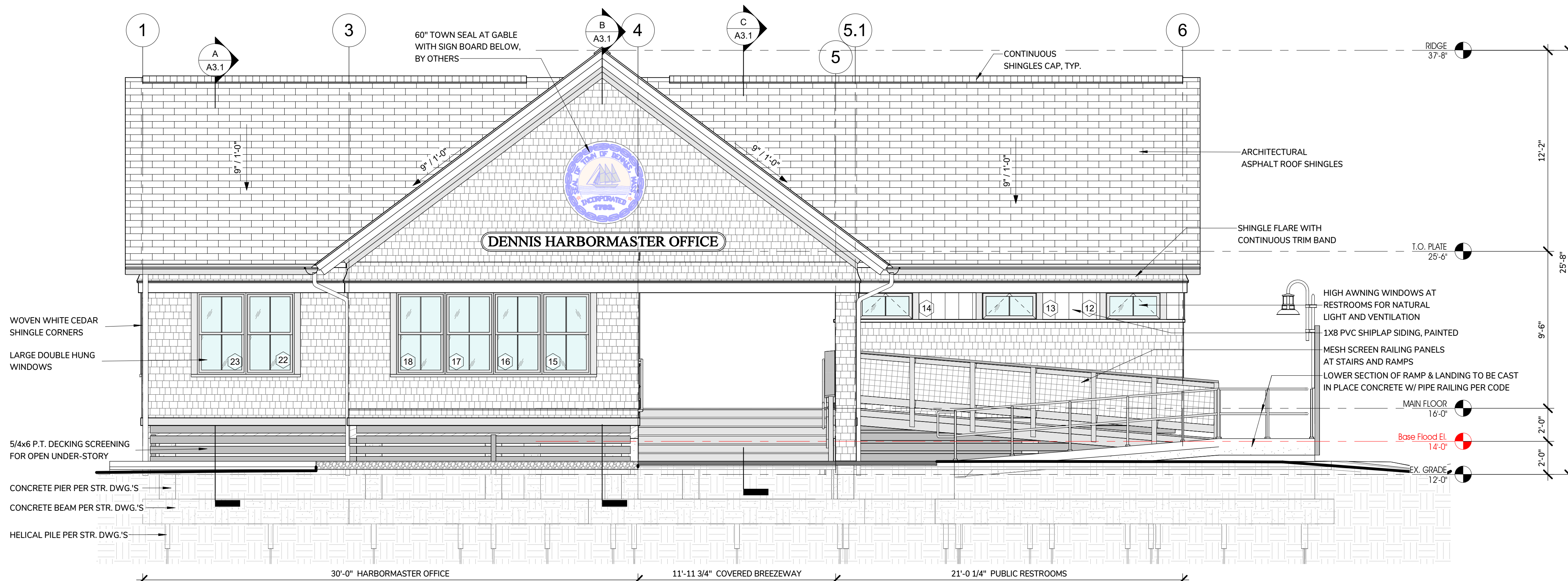
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② HARBORMASTER BUILDING - WEST ELEVATION  
1/4" = 1'-0"



① HARBORMASTER BUILDING - NORTH ELEVATION  
1/4" = 1'-0"



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TITLE:  
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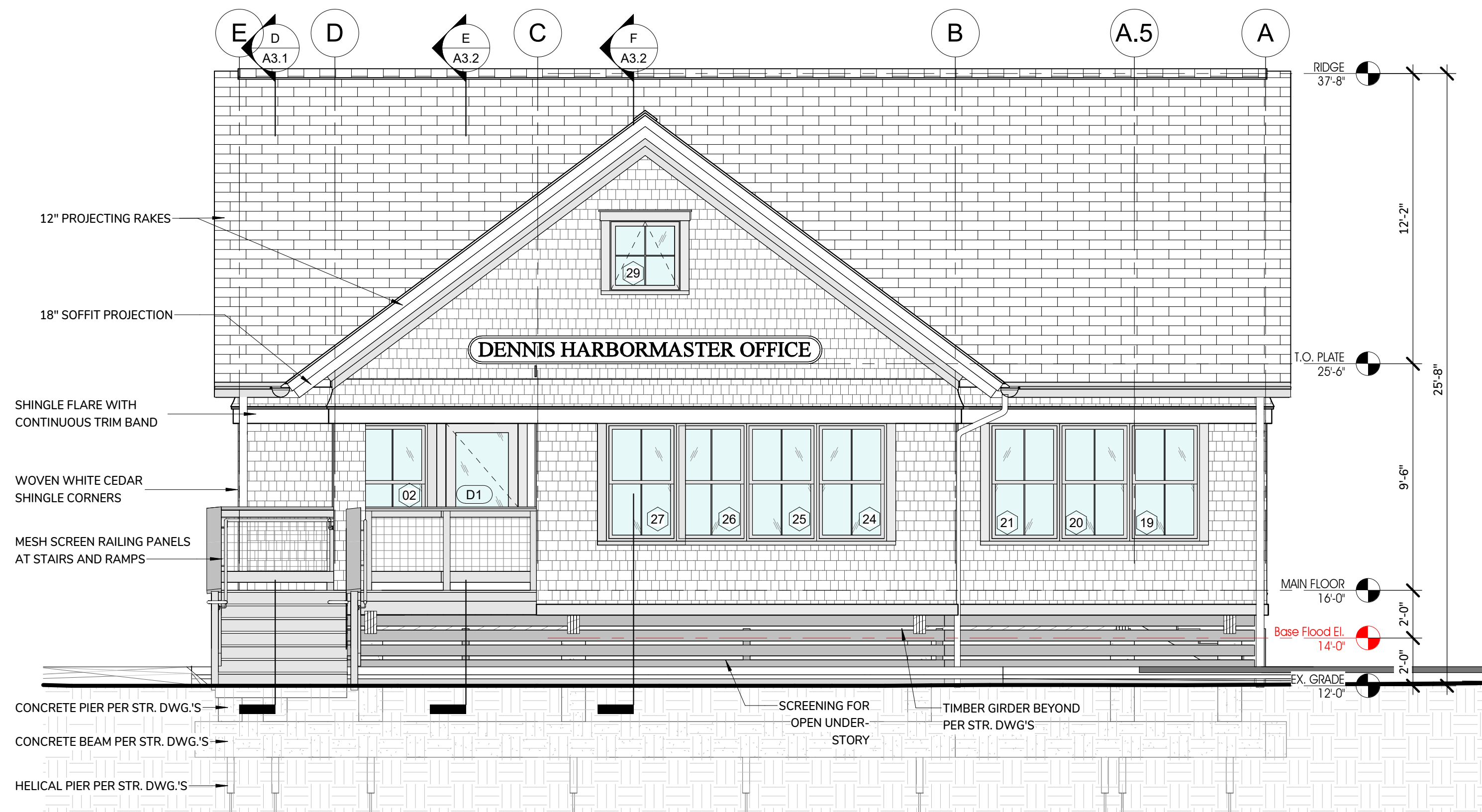
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No. Description Date

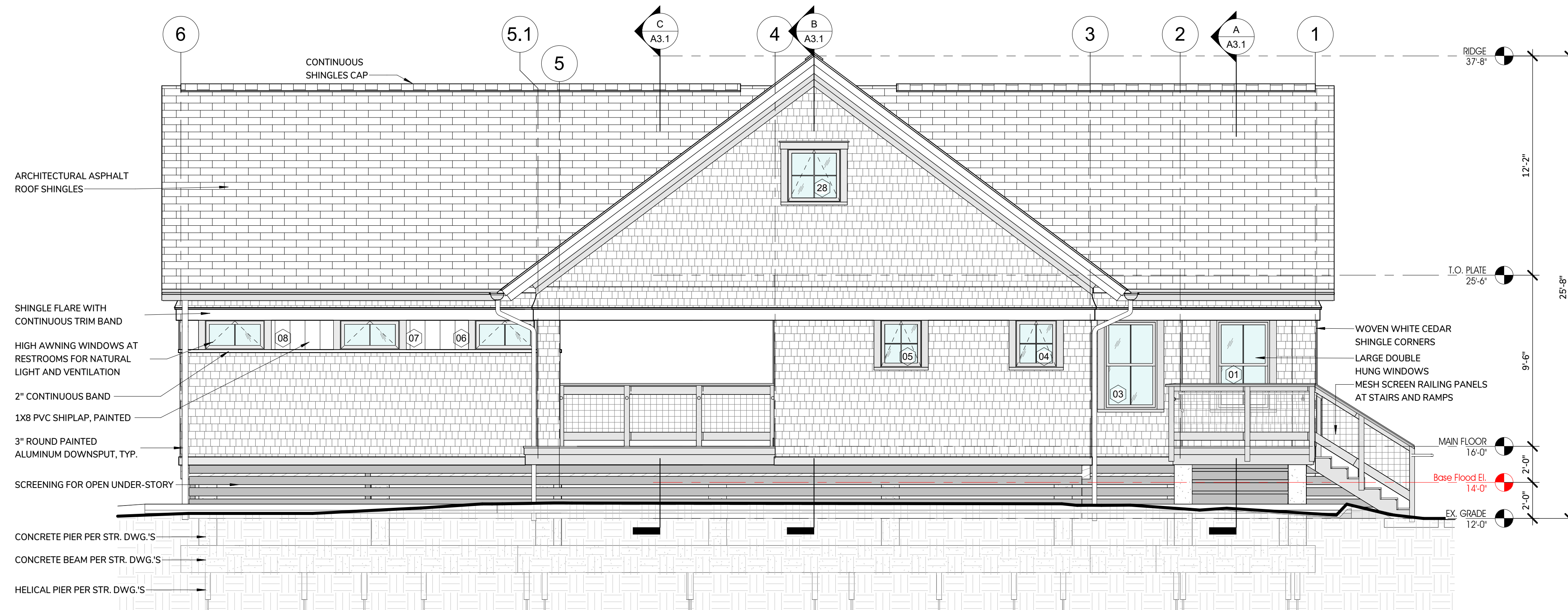
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② HARBORMASTER BUILDING - EAST ELEVATION  
1/4" = 1'-0"



① HARBORMASTER BUILDING - SOUTH ELEVATION  
1/4" = 1'-0"

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DENNIS, MA 02660

TITLE:  
HARBORMASTER  
GARAGE BUILDING  
ELEVATIONS

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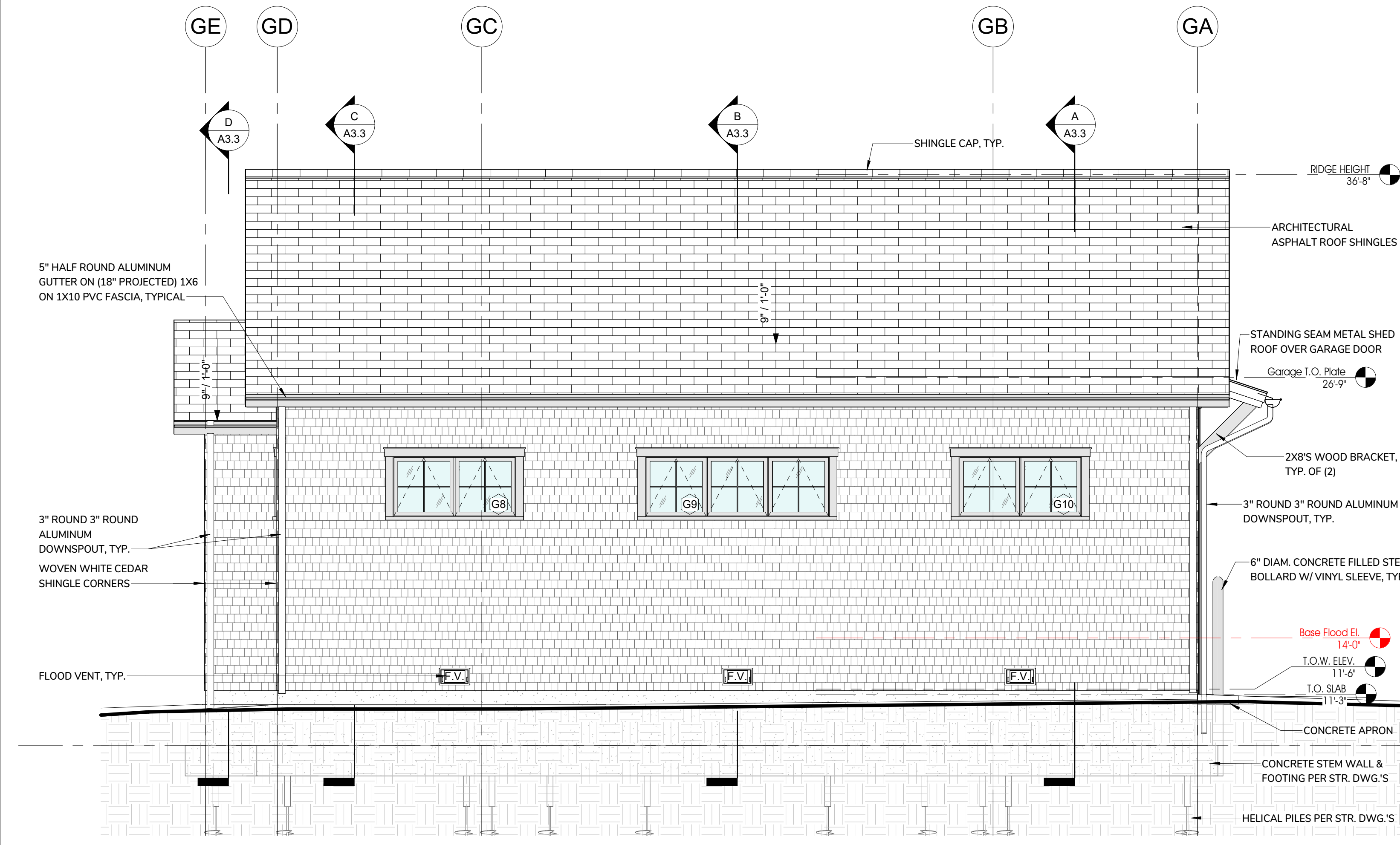
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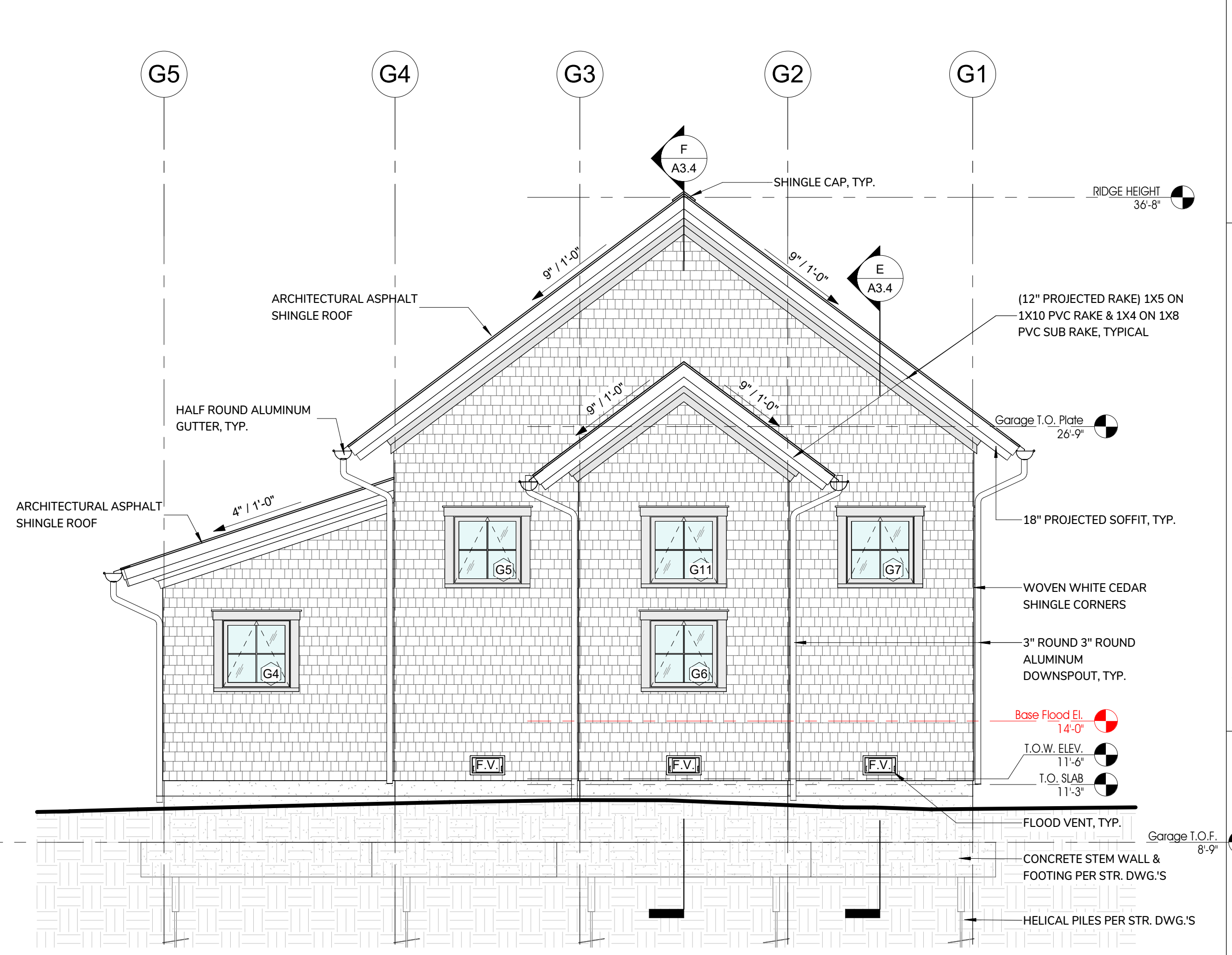
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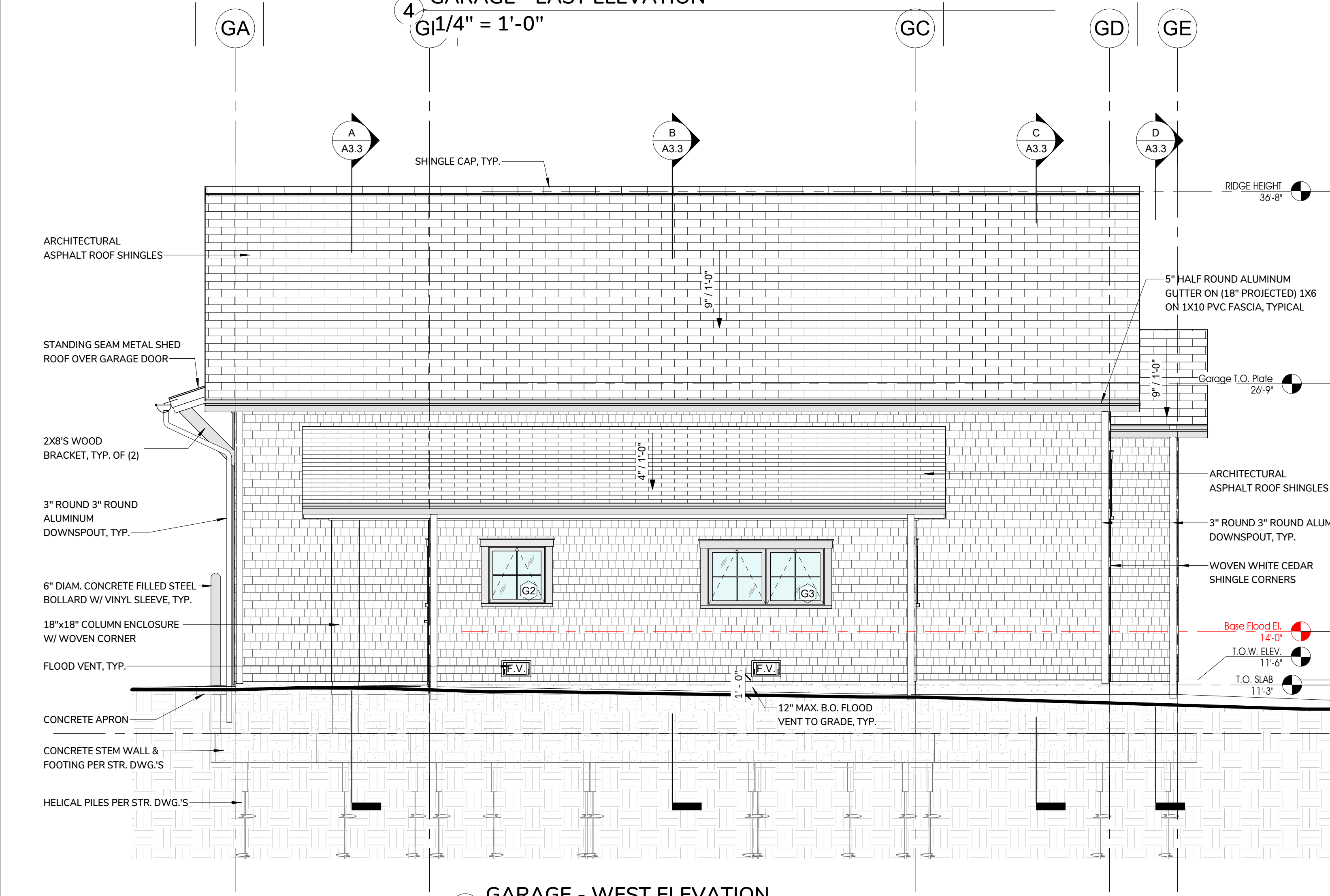
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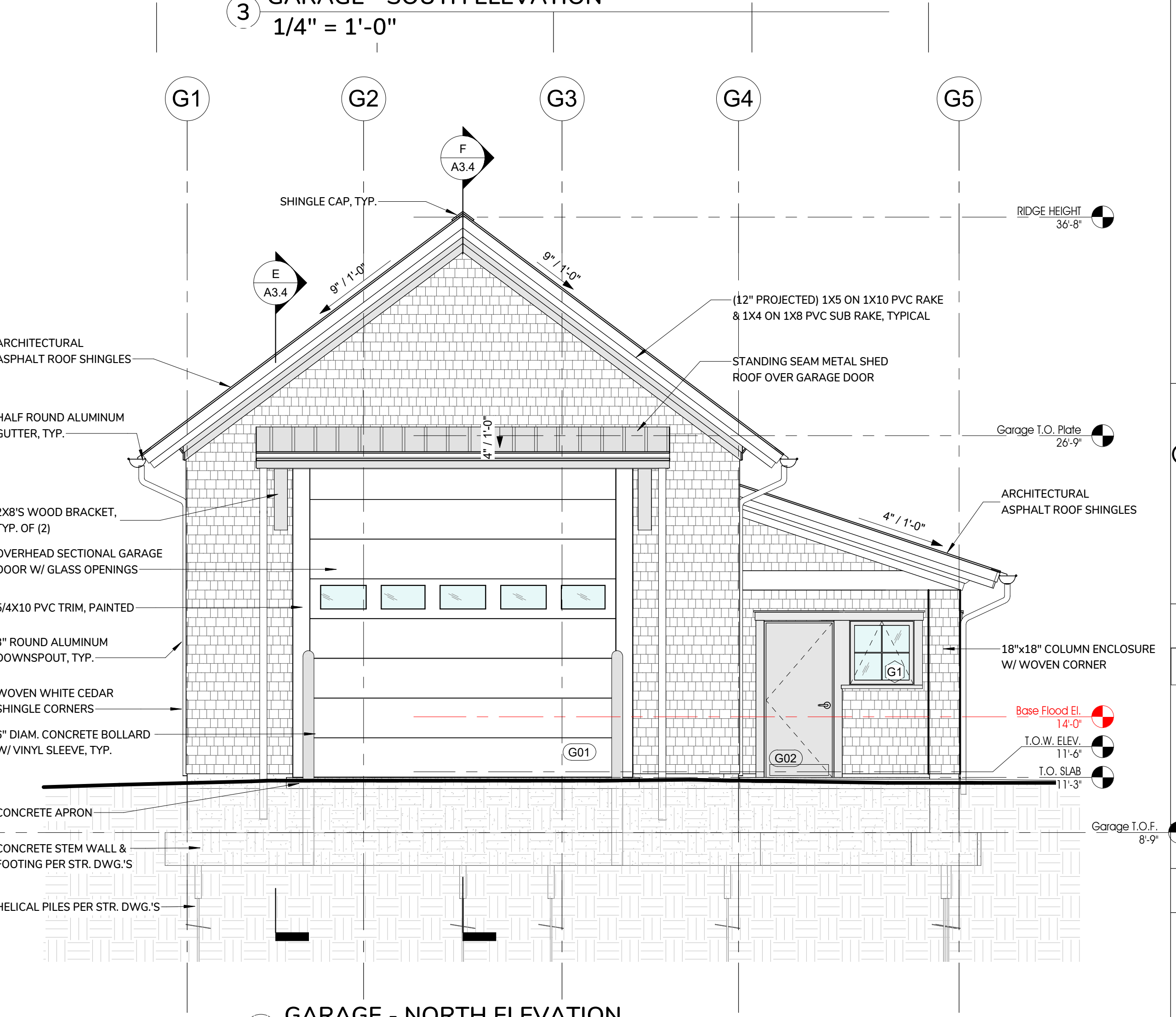
4 GARAGE - EAST ELEVATION  
1/4" = 1'-0"



3 GARAGE - SOUTH ELEVATION  
1/4" = 1'-0"



2 GARAGE - WEST ELEVATION  
1/4" = 1'-0"



1 GARAGE - NORTH ELEVATION  
1/4" = 1'-0"

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TOWN OF DENNIS

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TITLE:  
HARBORMASTER  
OFFICE -  
BUILDING  
SECTIONS

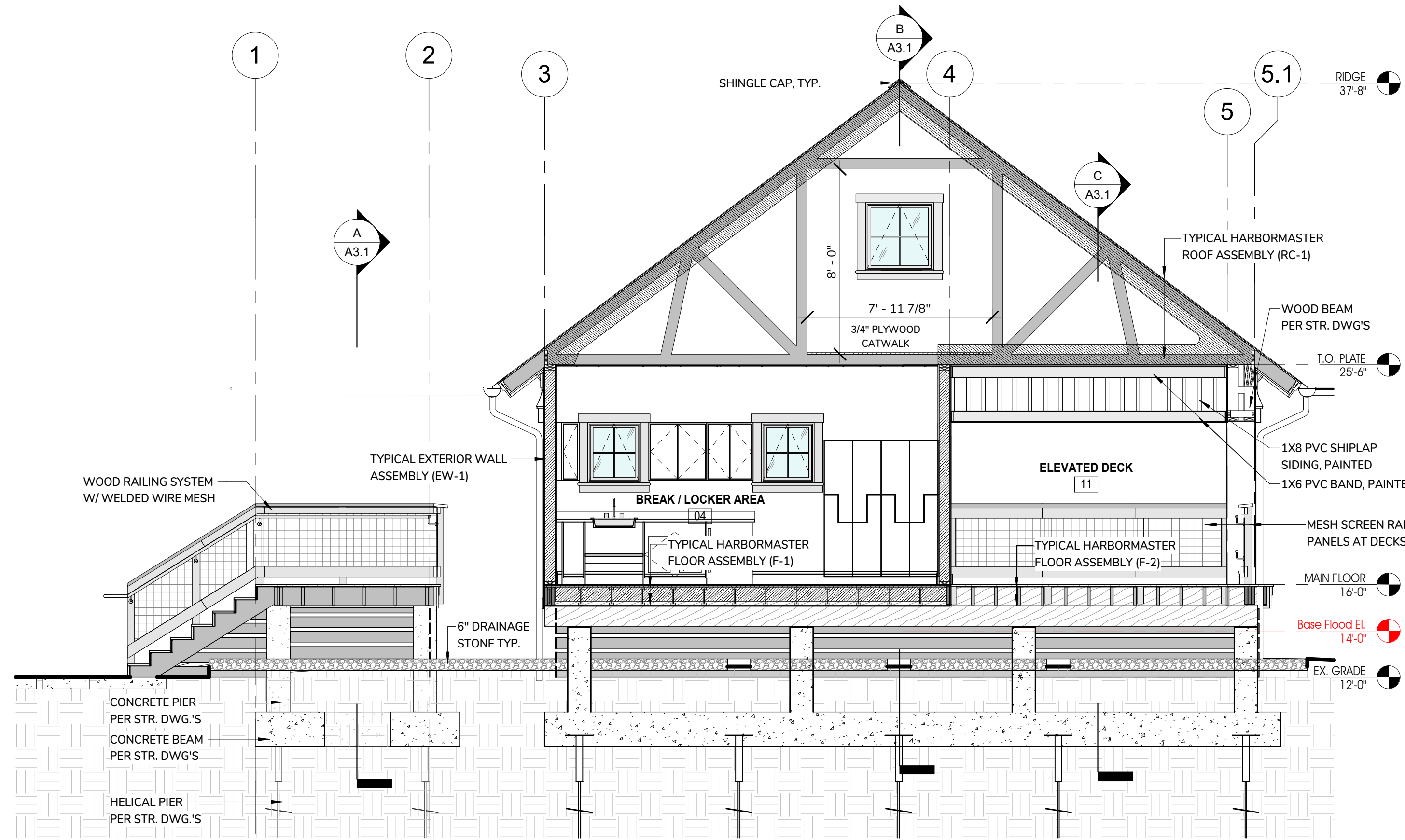
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No. Description Date

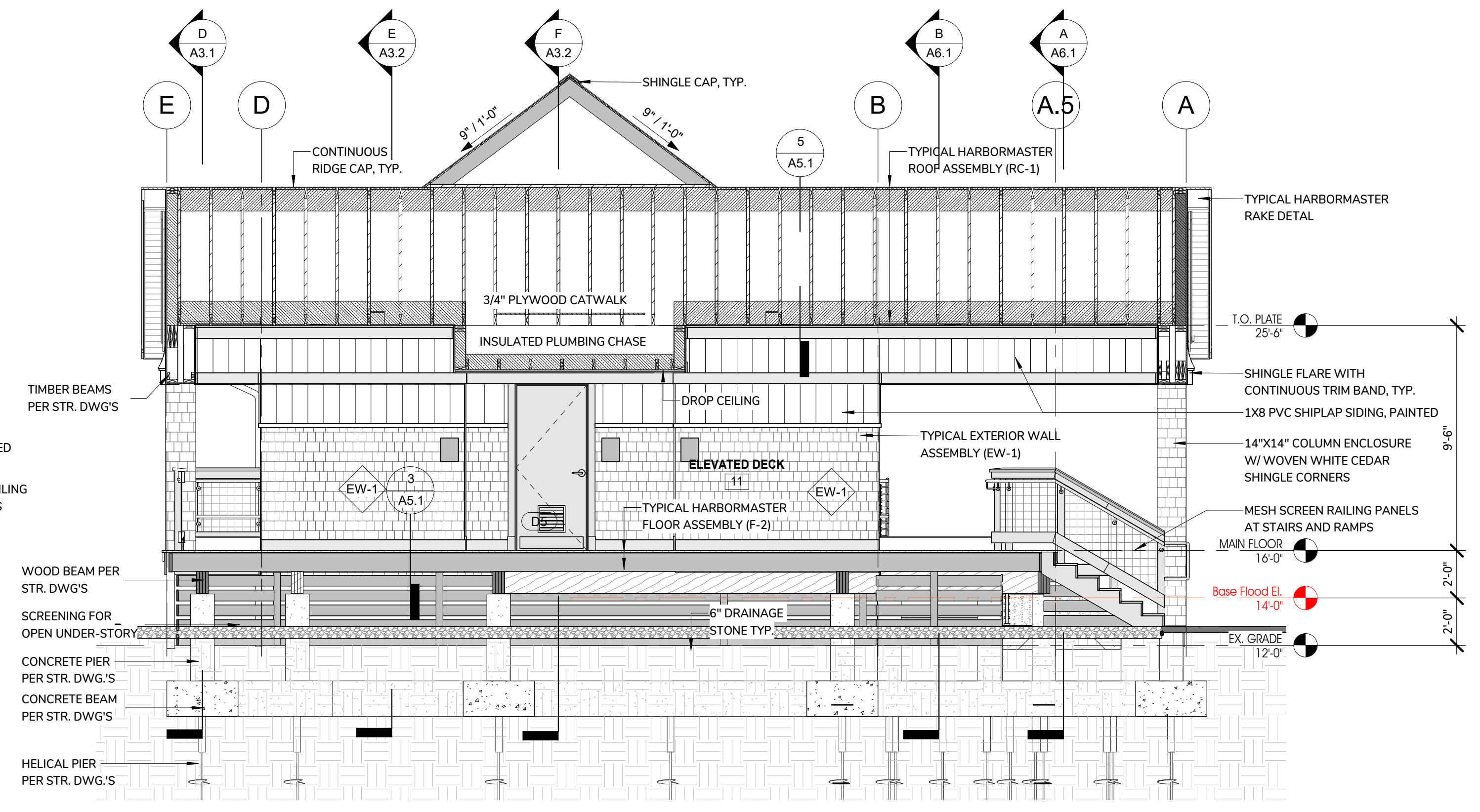
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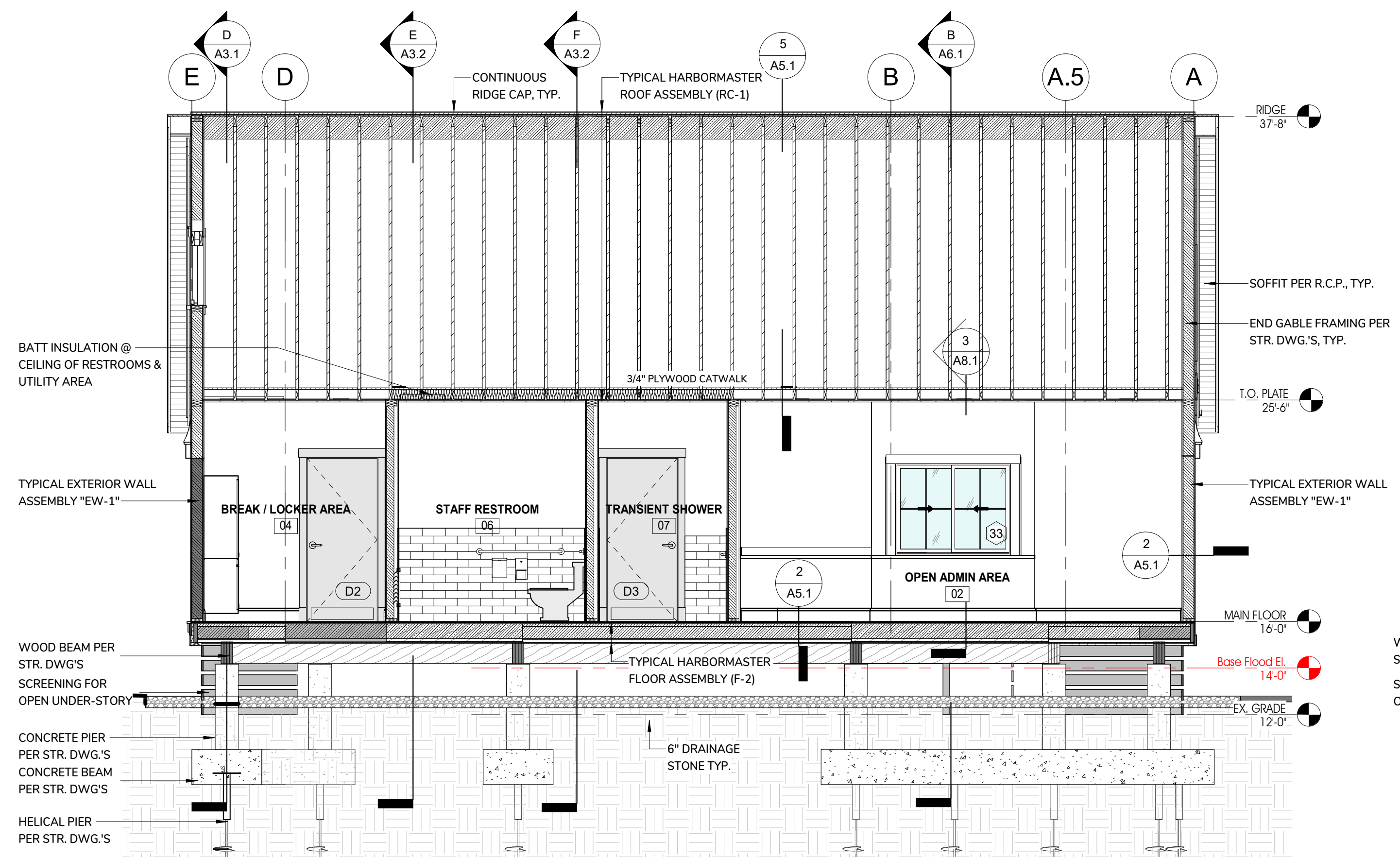
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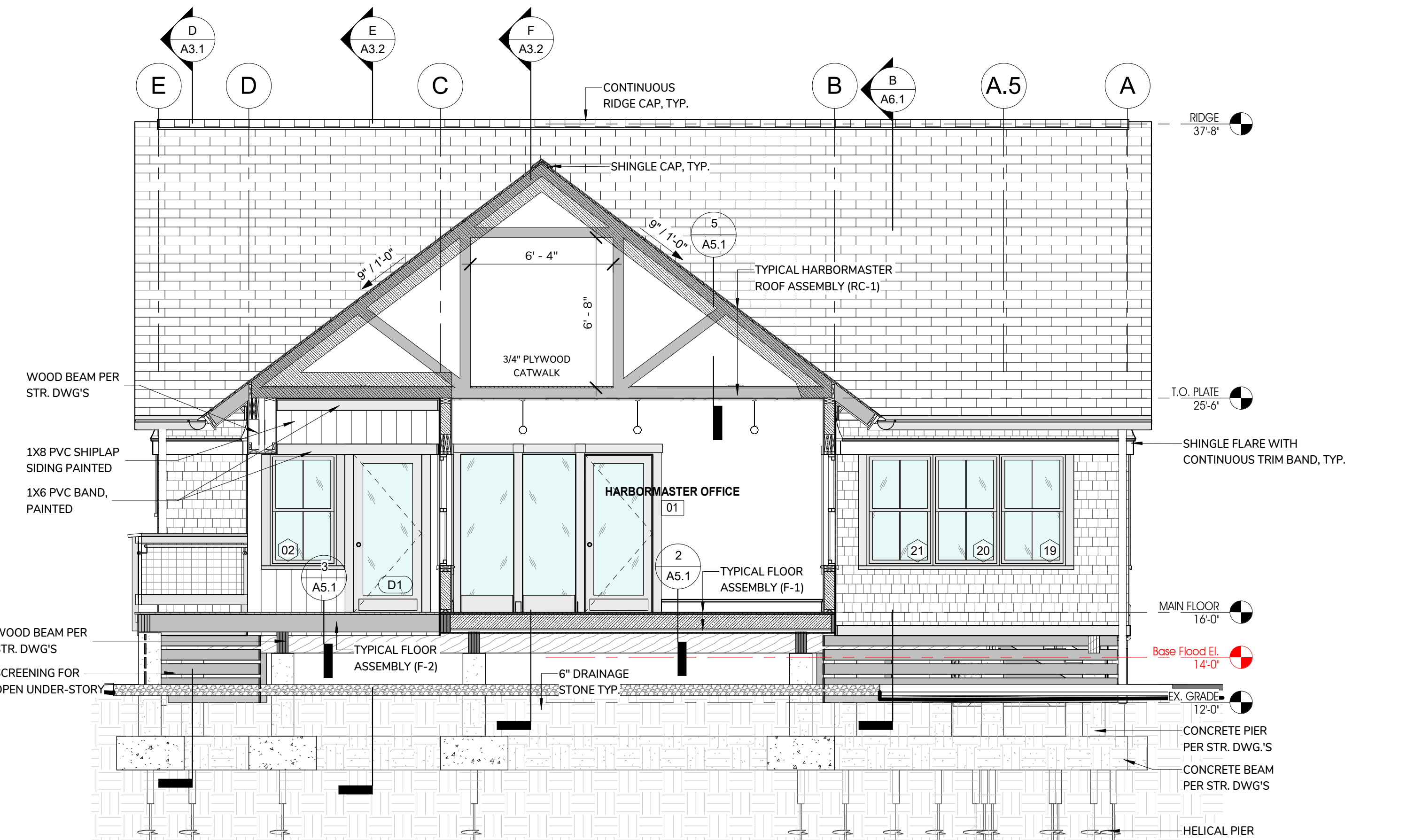
D HARBORMASTER - BUILDING SECTION "D"  
1/4" = 1'-0"



C HARBORMASTER - BUILDING SECTION "C"  
1/4" = 1'-0"



B HARBORMASTER - BUILDING SECTION "B"  
1/4" = 1'-0"



A HARBORMASTER - BUILDING SECTION "A"  
1/4" = 1'-0"

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TITLE:  
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OFFICE -  
BUILDING  
SECTIONS**

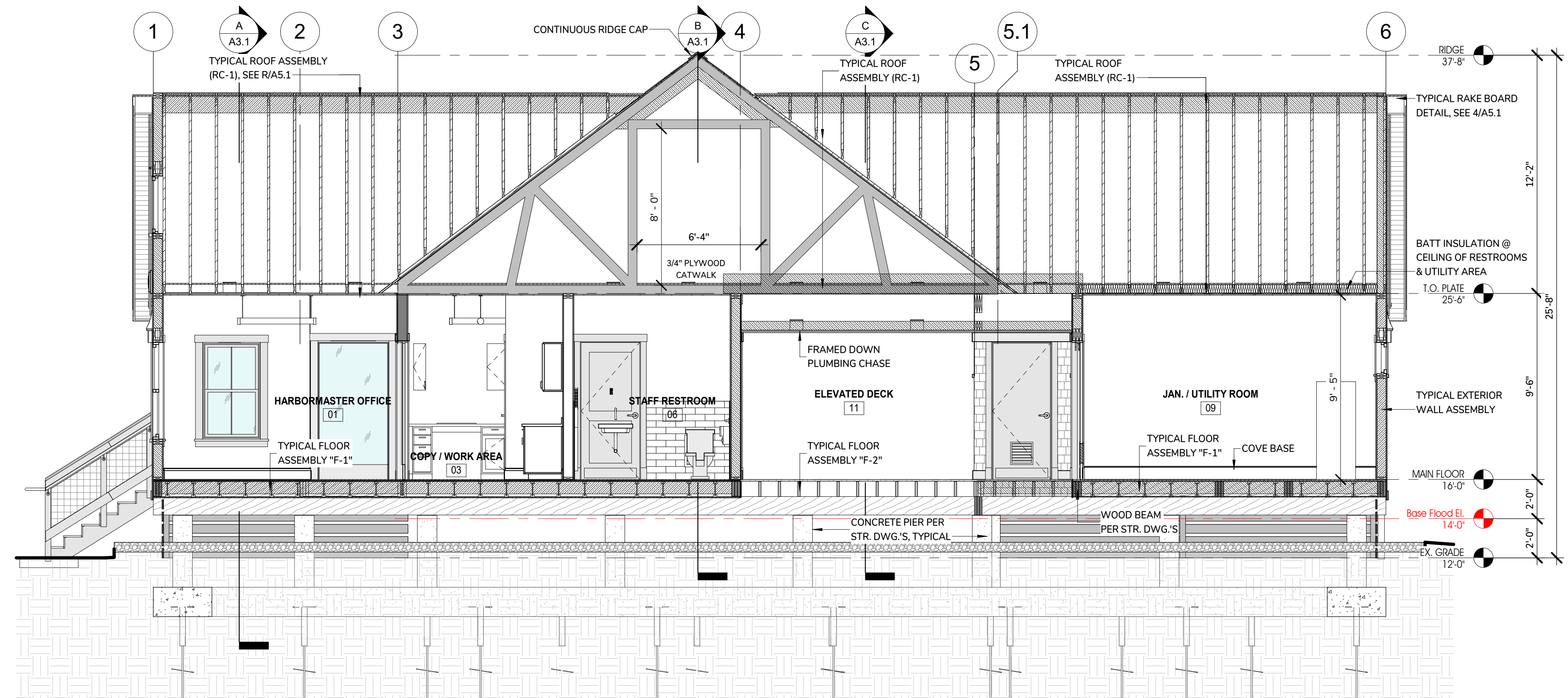
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REVISIONS:  
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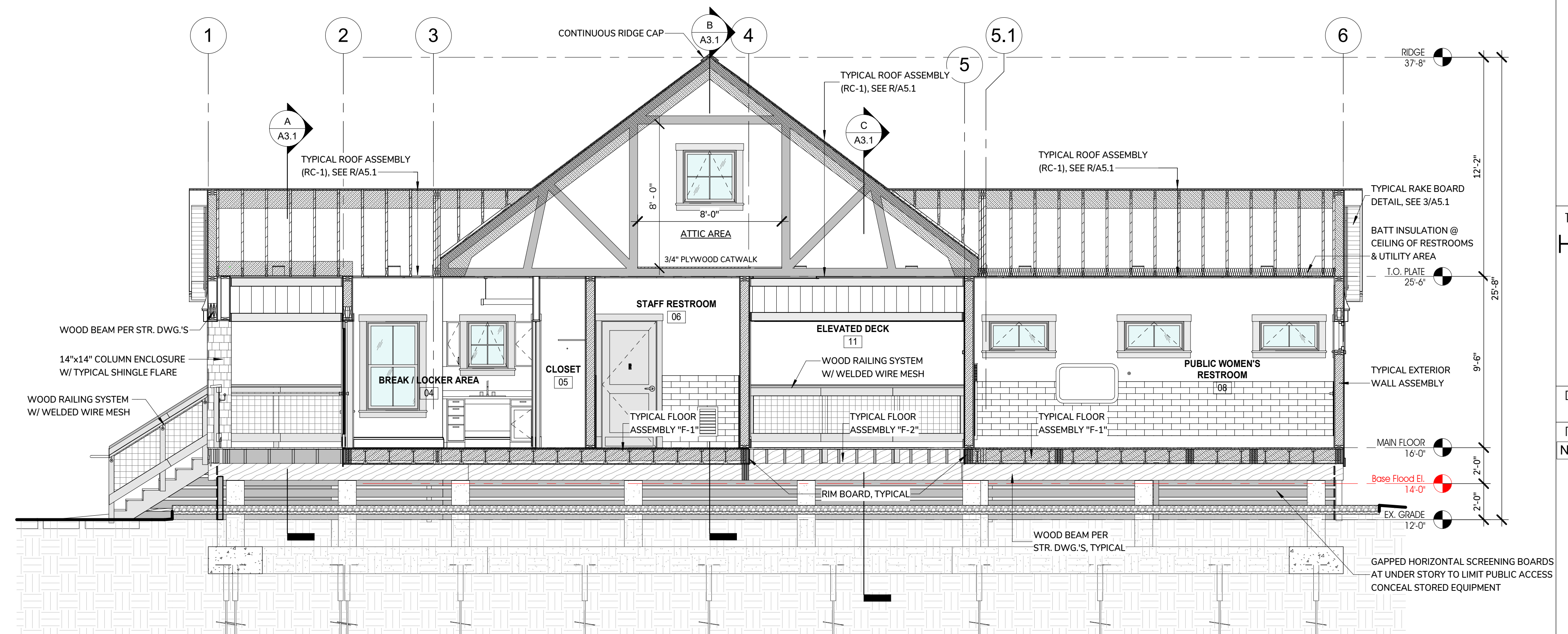
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**F** HARBORMASTER - BUILDING SECTION "F"  
1/4" = 1'-0"



**E** HARBORMASTER - BUILDING SECTION "E"  
1/4" = 1'-0"

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TOWN OF DENNIS  
351 SESUIT HARBOR ROAD  
DENNIS, MA 02660

TITLE:  
HARBOR MASTER  
GARAGE BUILDING  
SECTIONS

DATE ISSUED: 08 . 01 . 2025

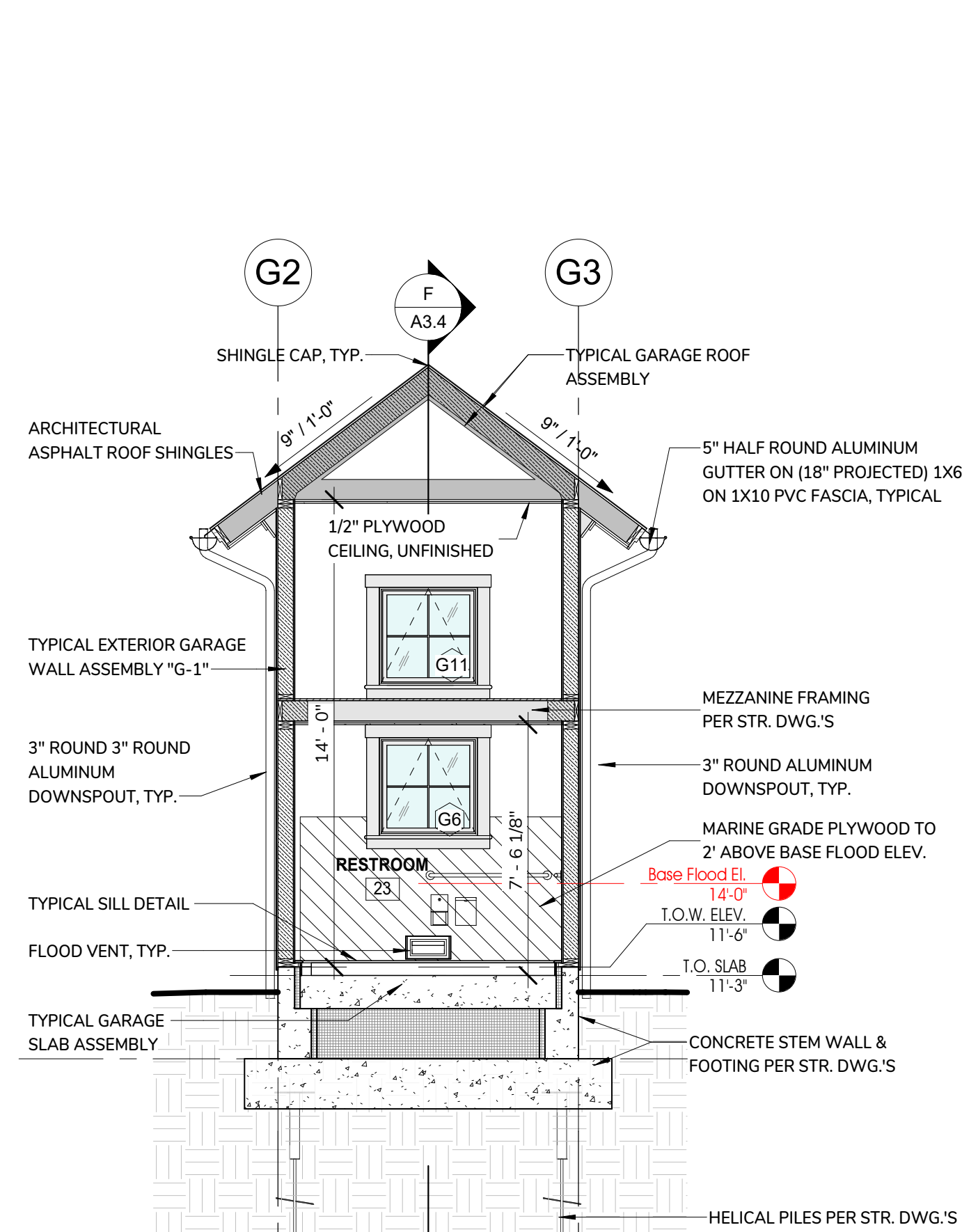
Revisions

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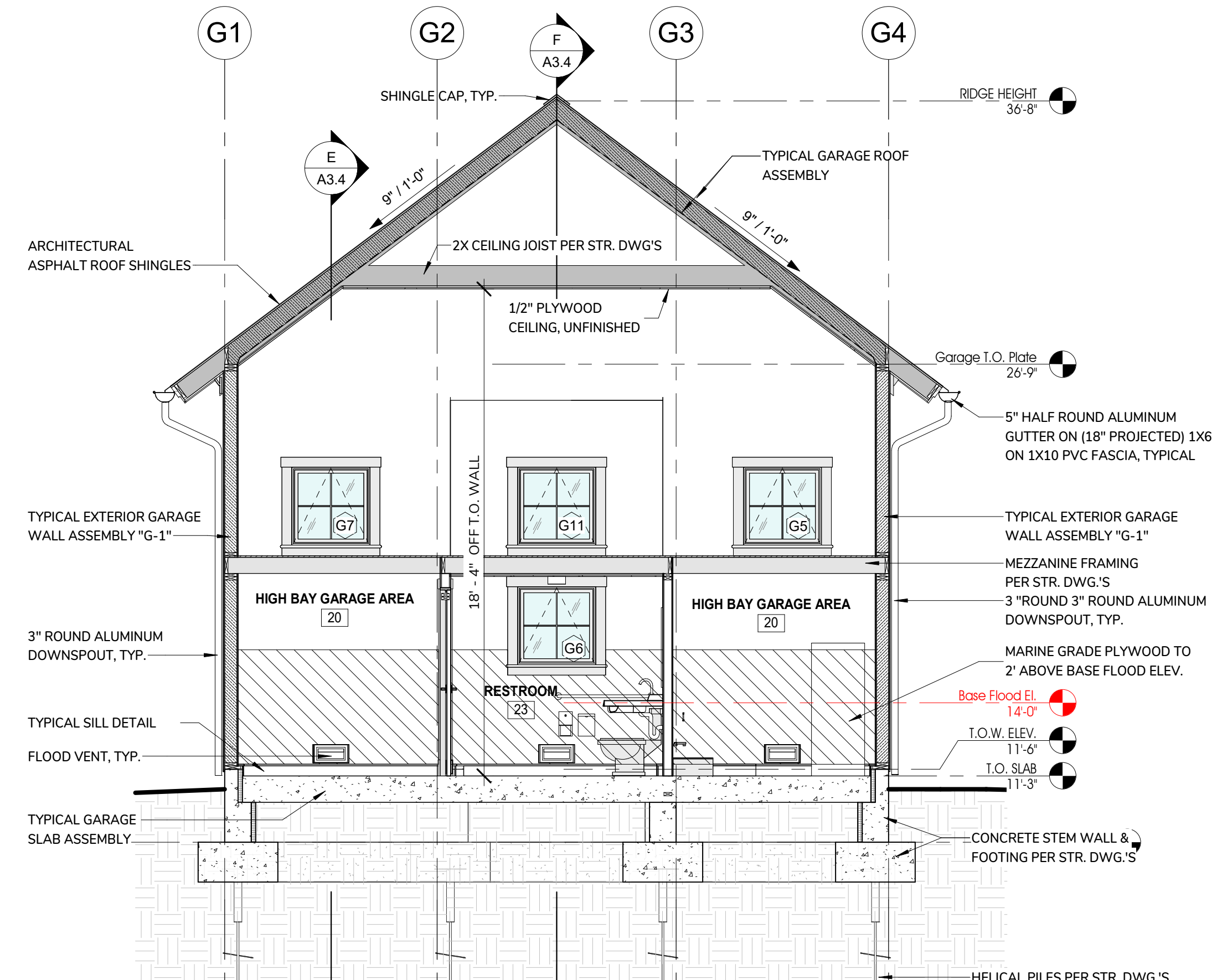
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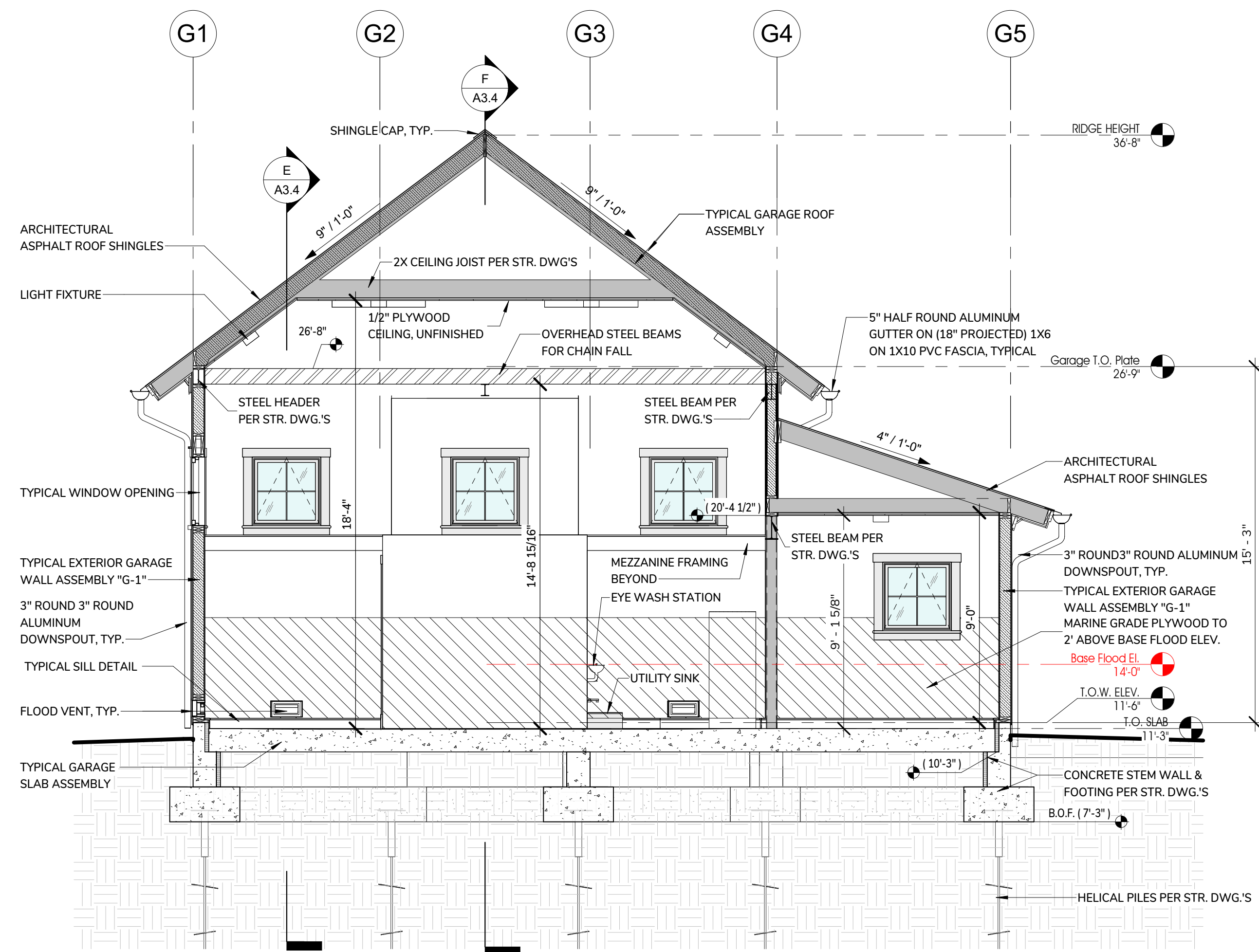
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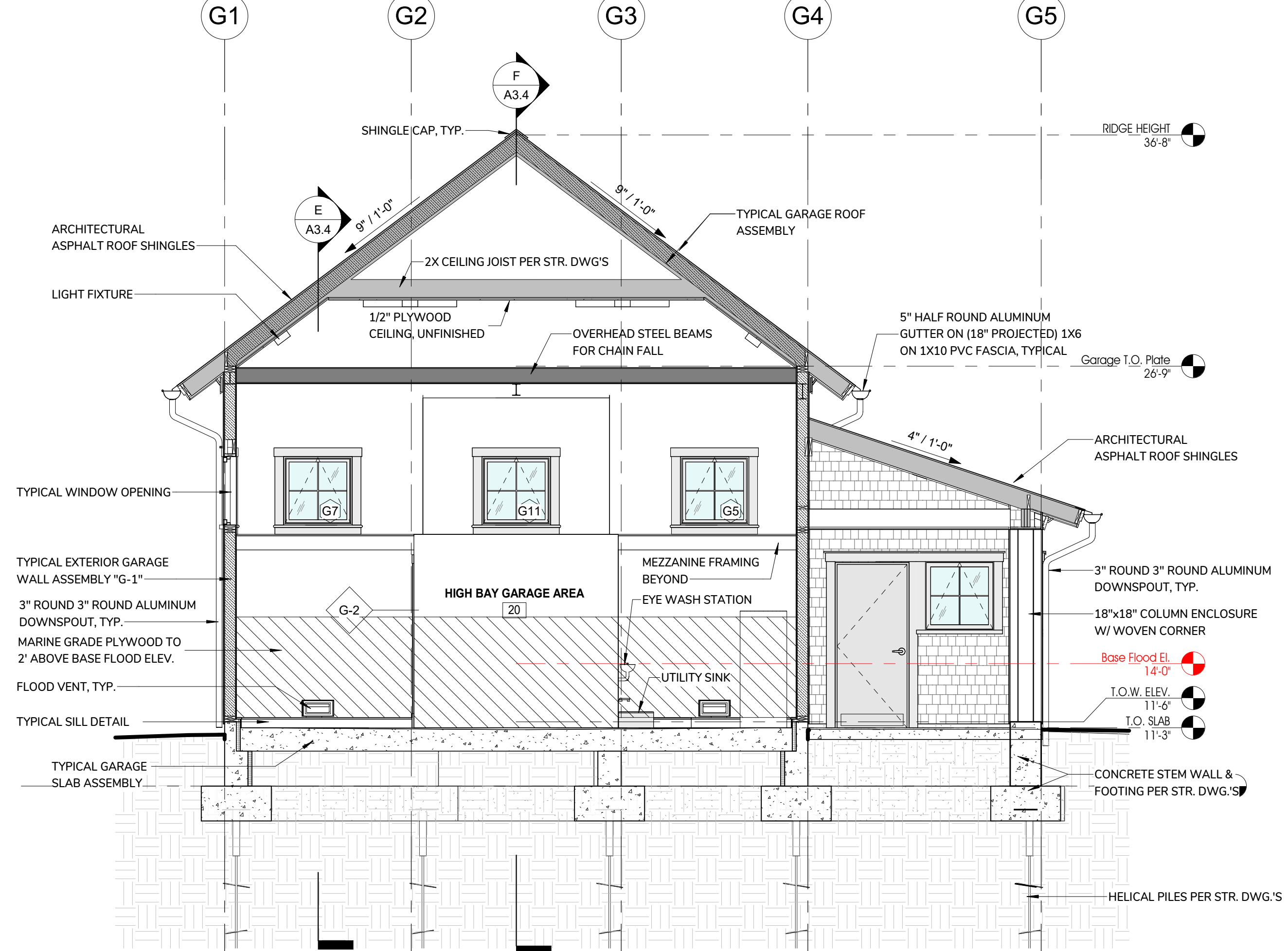
D GARAGE BUILDING SECTION "D"  
1/4" = 1'-0"



C GARAGE BUILDING SECTION "C"  
1/4" = 1'-0"



B GARAGE BUILDING SECTION "B"  
1/4" = 1'-0"



A GARAGE BUILDING SECTION "A"  
1/4" = 1'-0"

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SECTIONS

DATE ISSUED: 08 . 01 . 2025

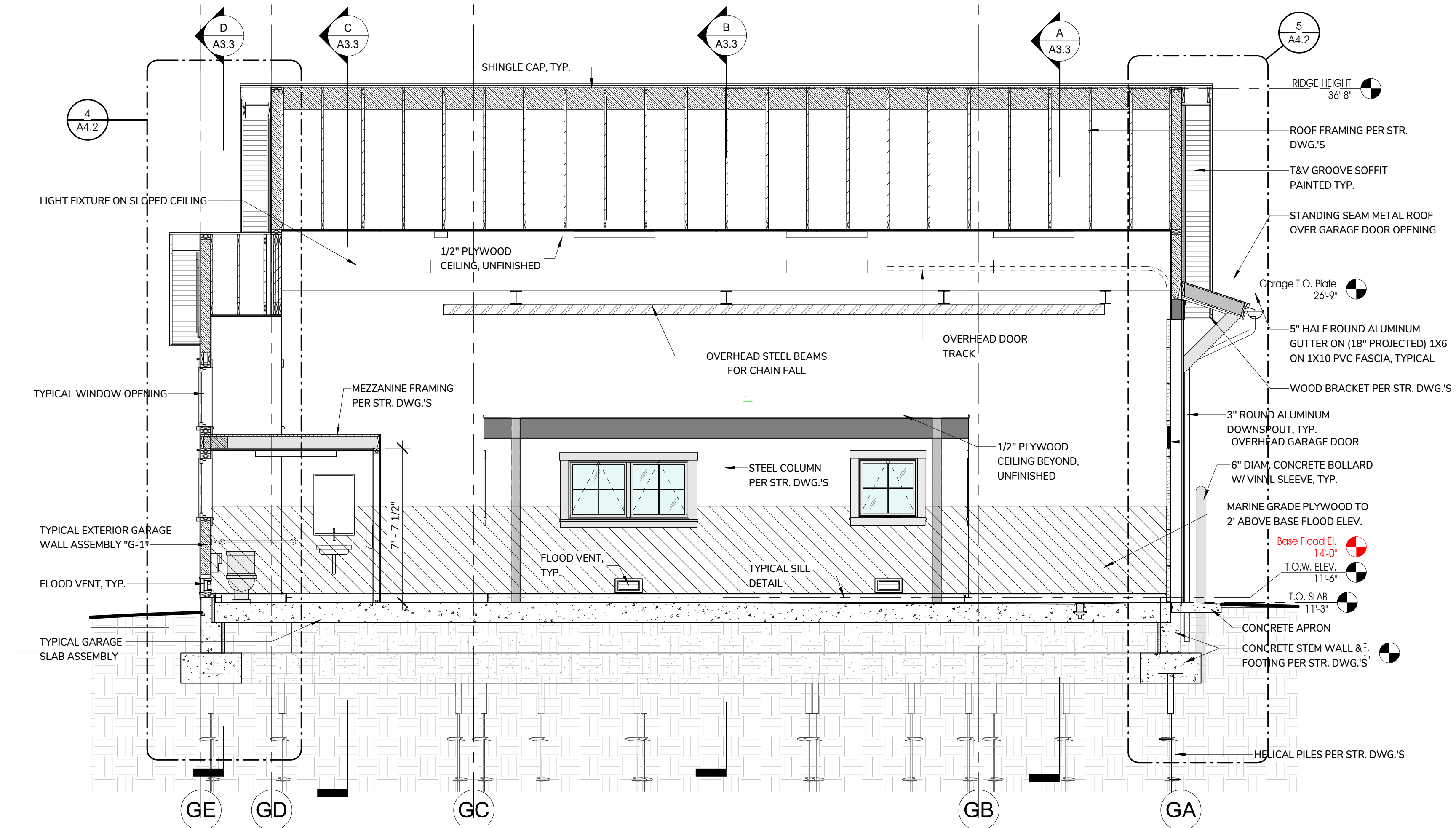
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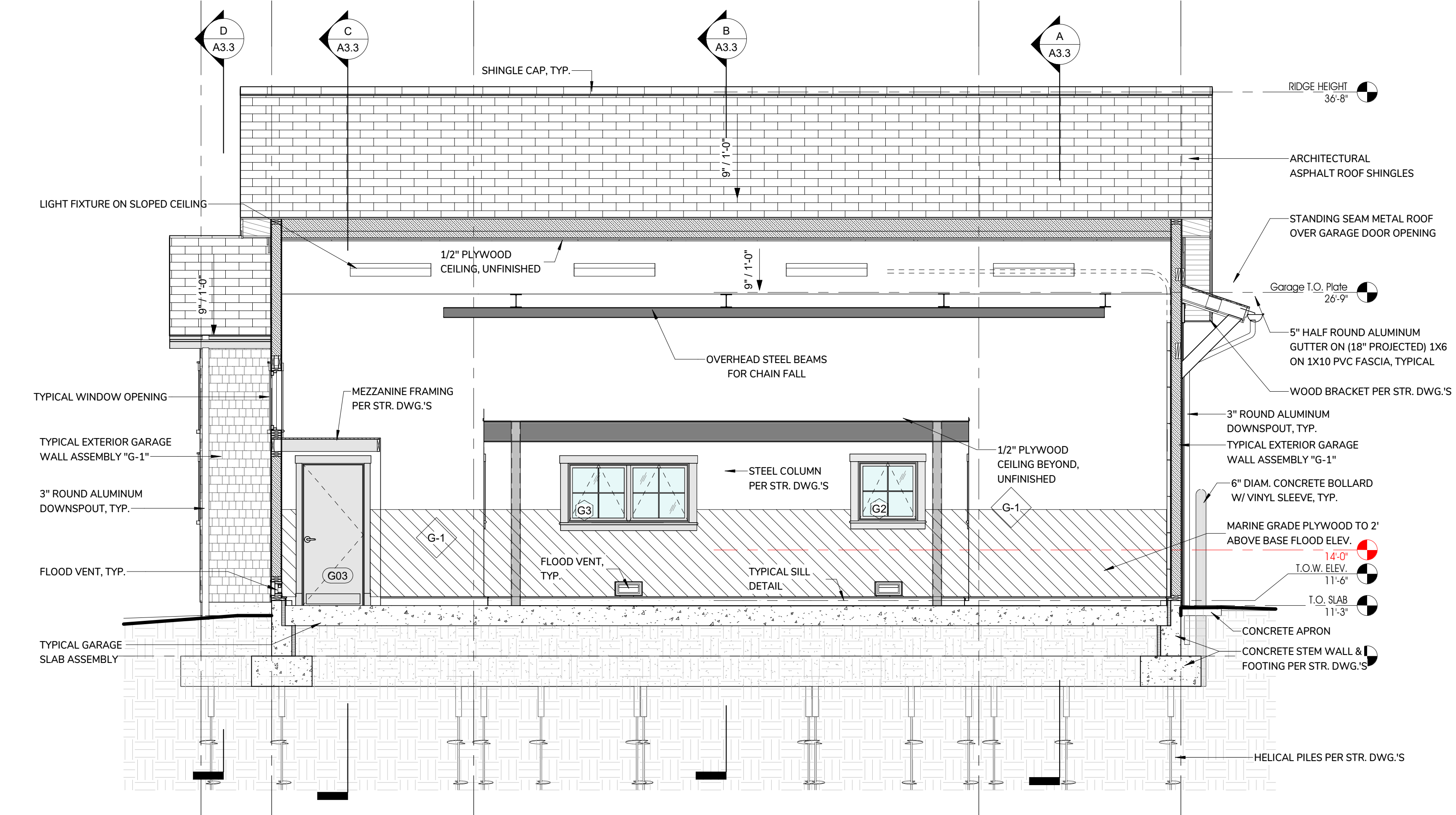
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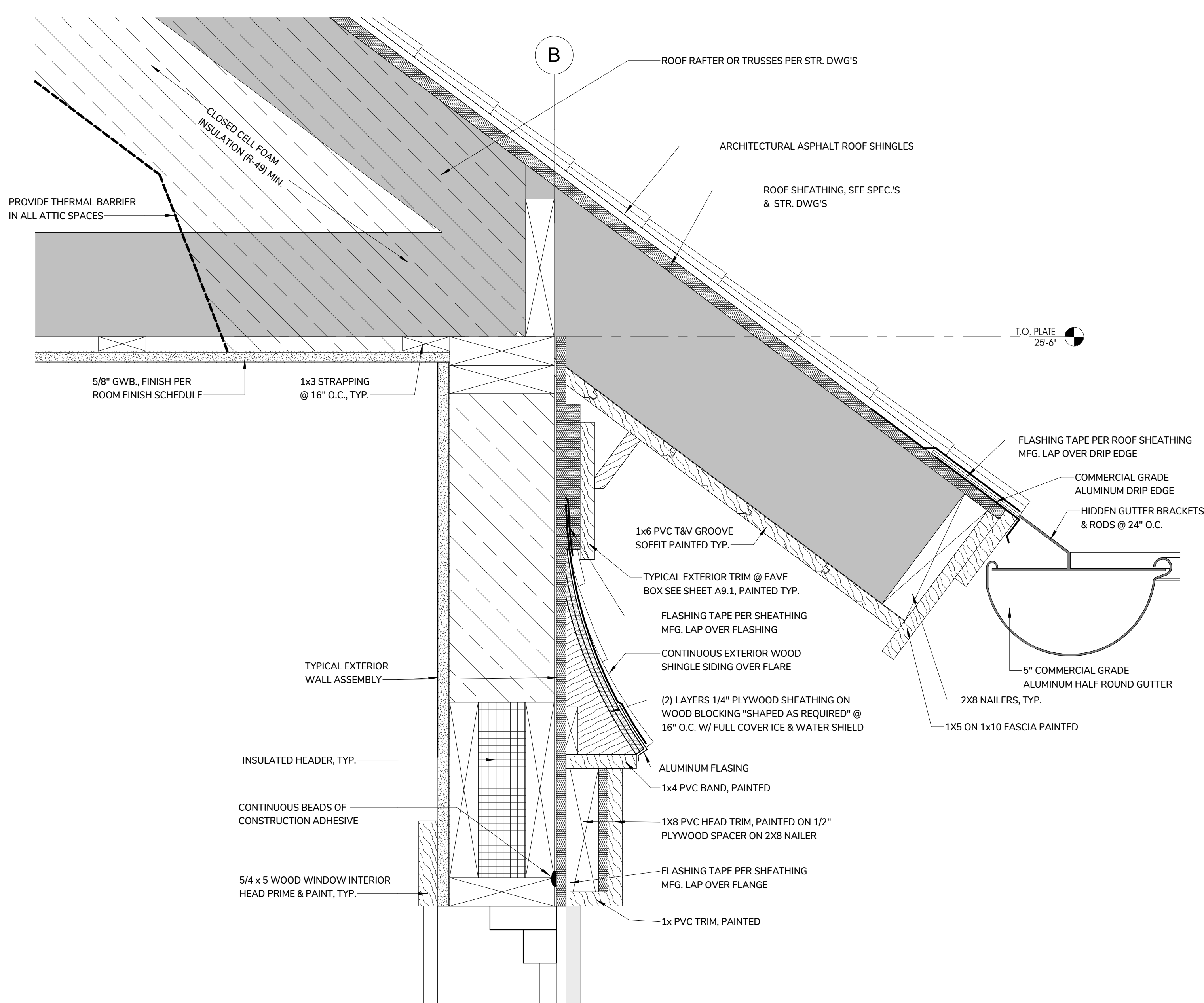
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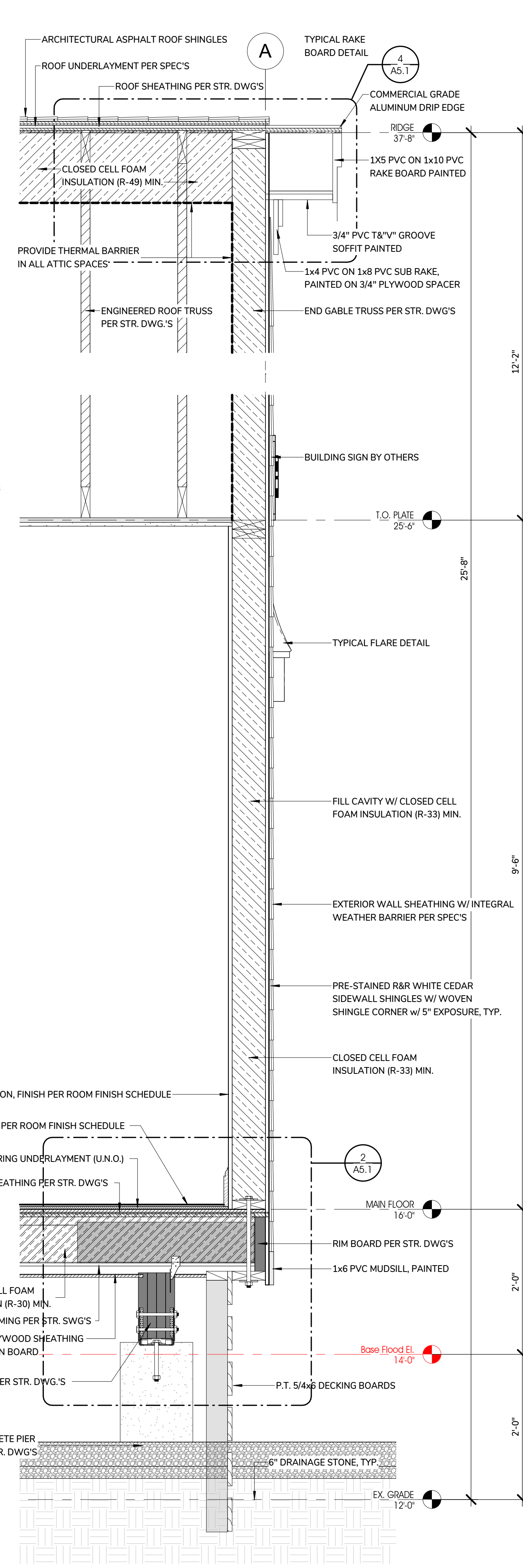
F GARAGE BUILDING SECTION "F"  
1/4" = 1'-0"



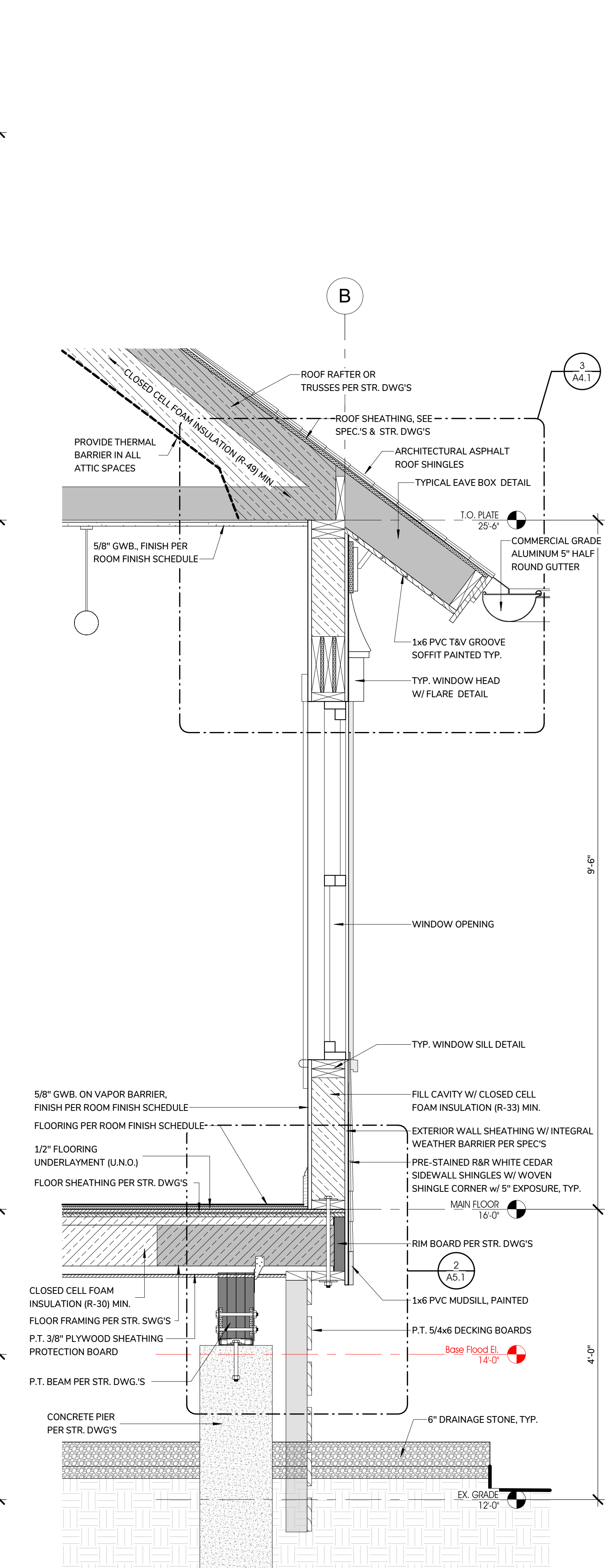
E GARAGE BUILDING SECTION "E"  
1/4" = 1'-0"



3 HARBORMASTER - TYPICAL EAVE BOX & FLARE DETAIL  
3" = 1'-0"



2 HARBORMASTER - EXTERIOR WALL SECTION "B-1"  
1" = 1'-0"



1 HARBORMASTER - EXTERIOR WALL SECTION "A-1"  
1" = 1'-0"

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TITLE:  
HARBORMASTER  
OFFICE - EXTERIOR  
WALL SECTIONS &  
DETAILS

DATE ISSUED: 08 . 01 . 2025

Revisions

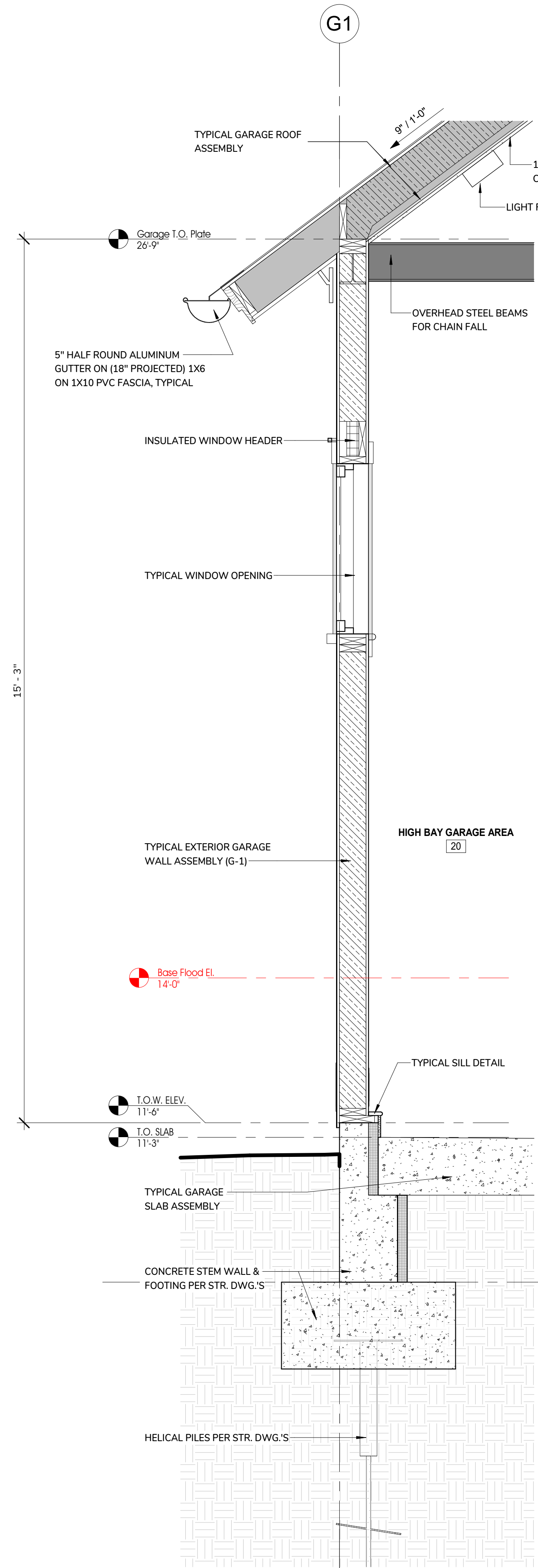
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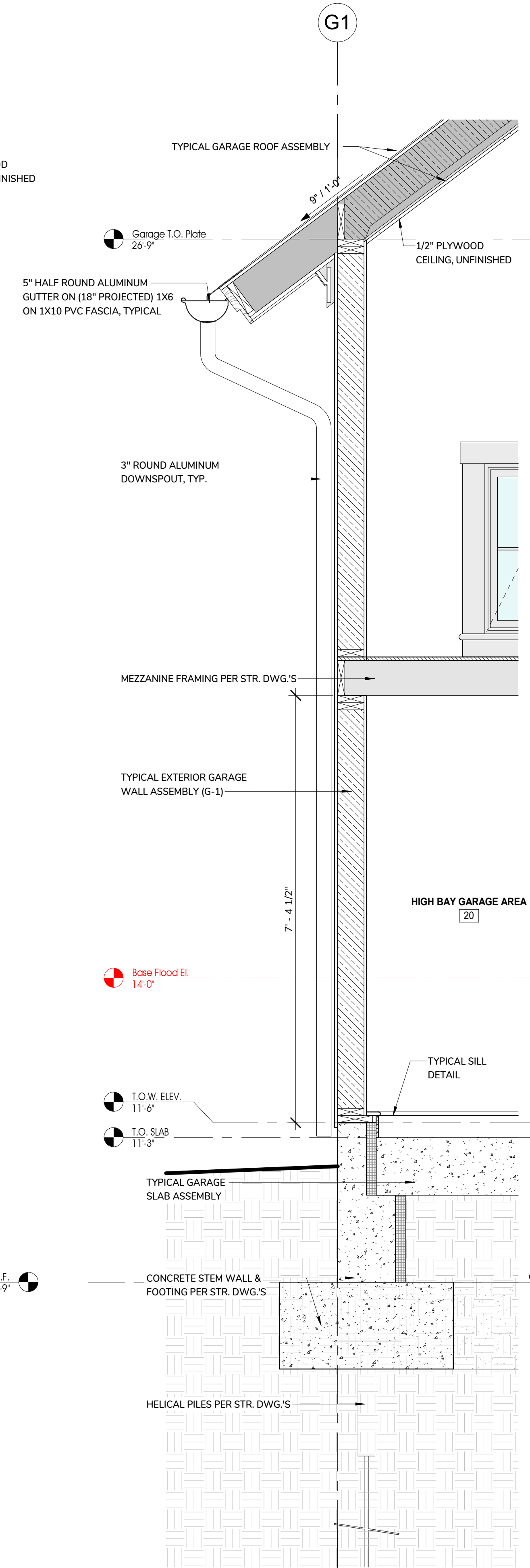
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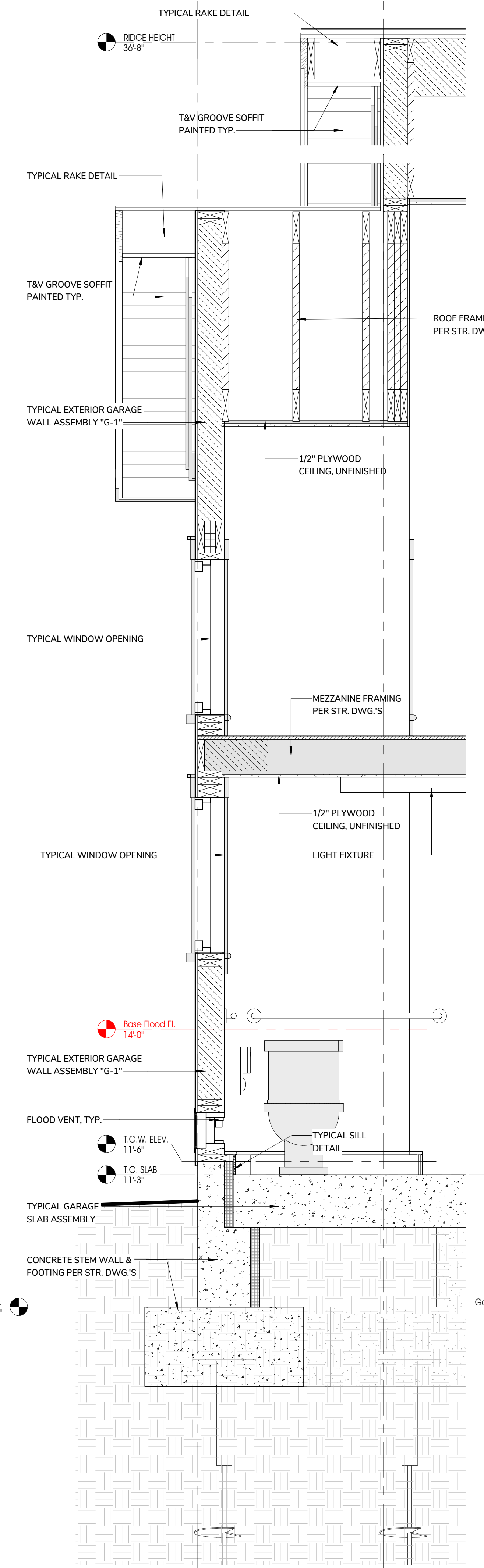
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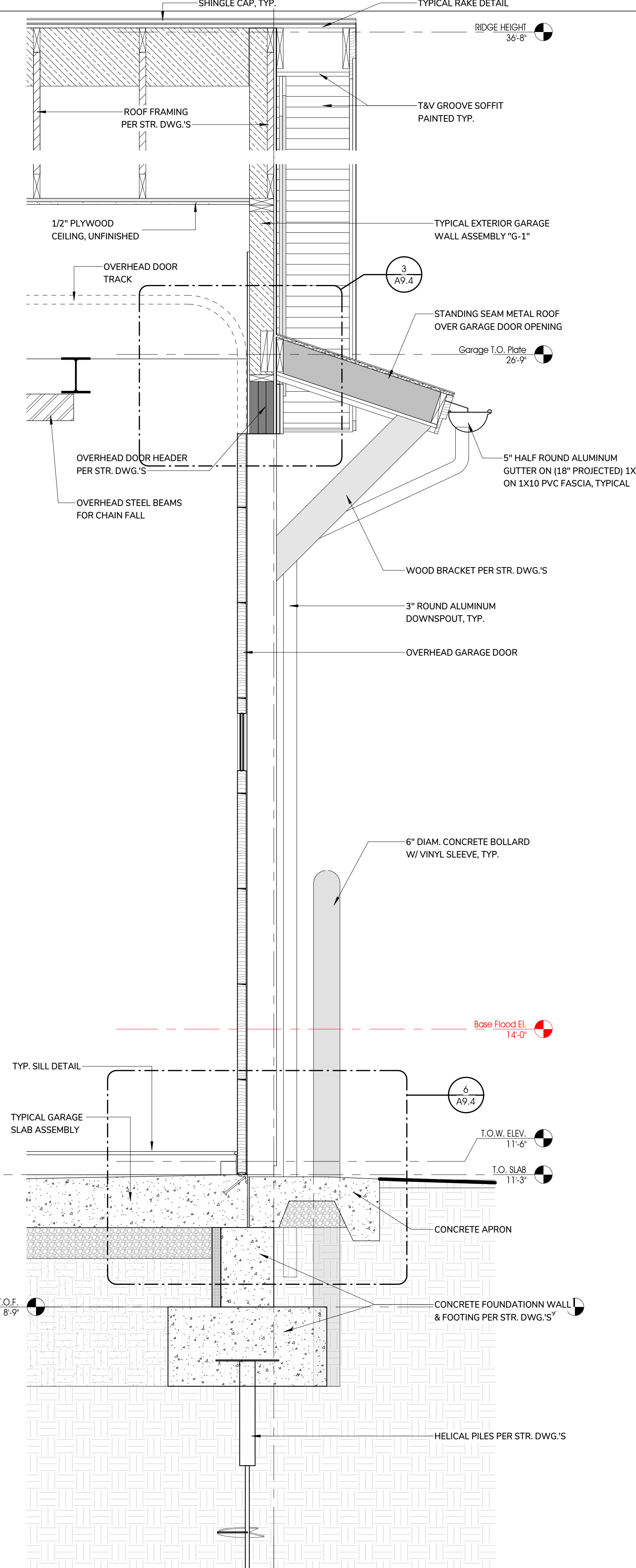
1 GARAGE WALL SECTION "A-1"  
3/4" = 1'-0"



3 GARAGE WALL SECTION "C-1"  
3/4" = 1'-0"



4 GARAGE WALL SECTION "F-1"  
3/4" = 1'-0"



5 GARAGE WALL SECTION "F-2"  
3/4" = 1'-0"

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TITLE:  
**HARBORMASTER GARAGE EXTERIOR WALL SECTIONS**

DATE ISSUED: 08 . 01 . 2025

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No.	Description	Date

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**A4.2**

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DENNIS, MA 02660

TITLE:  
HARBORMASTER OFFICE FLOOR, WALL, CEILING & ROOF TYPICAL ASSEMBLY

DATE ISSUED: 08 . 01 . 2025

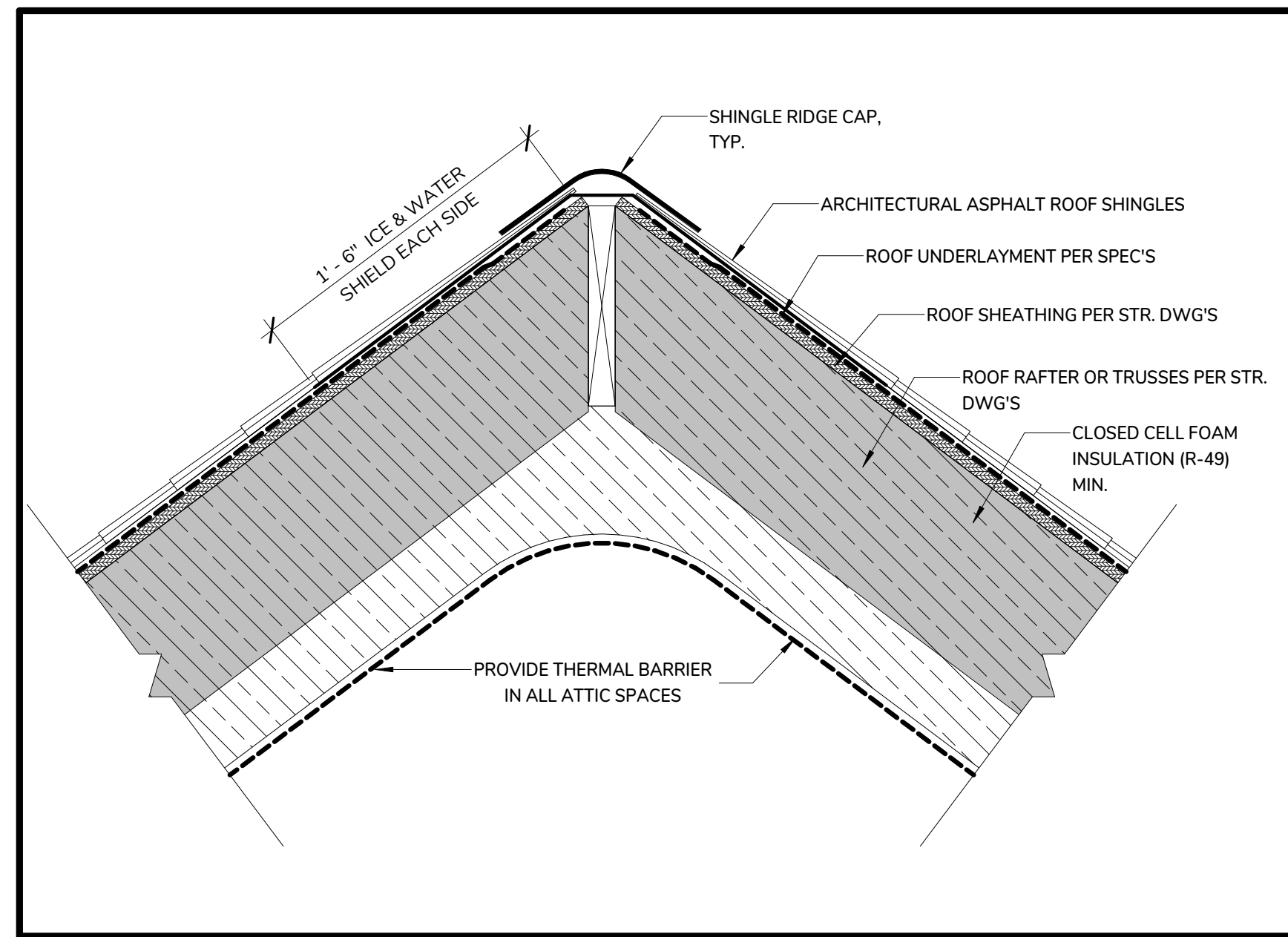
Revisions

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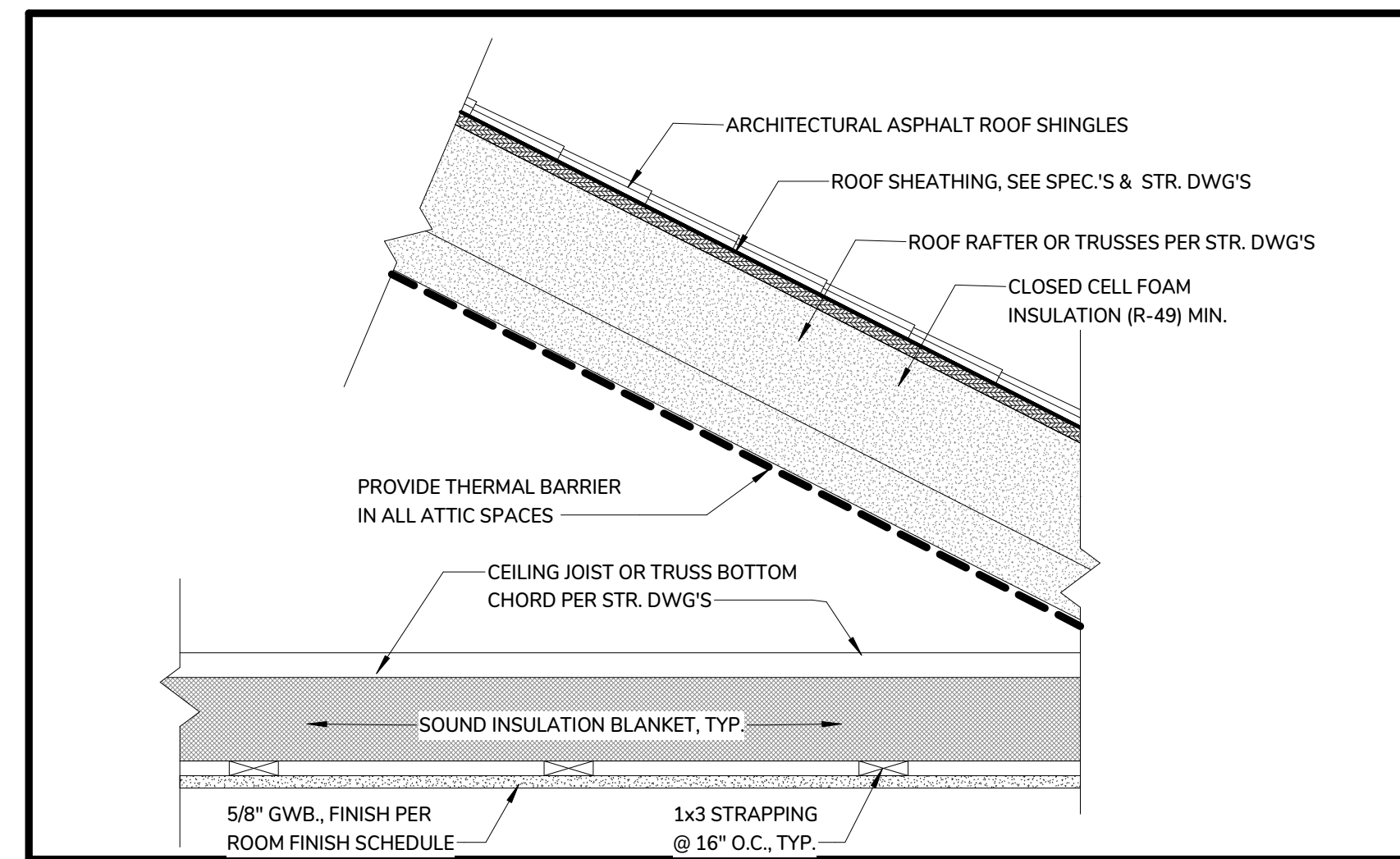
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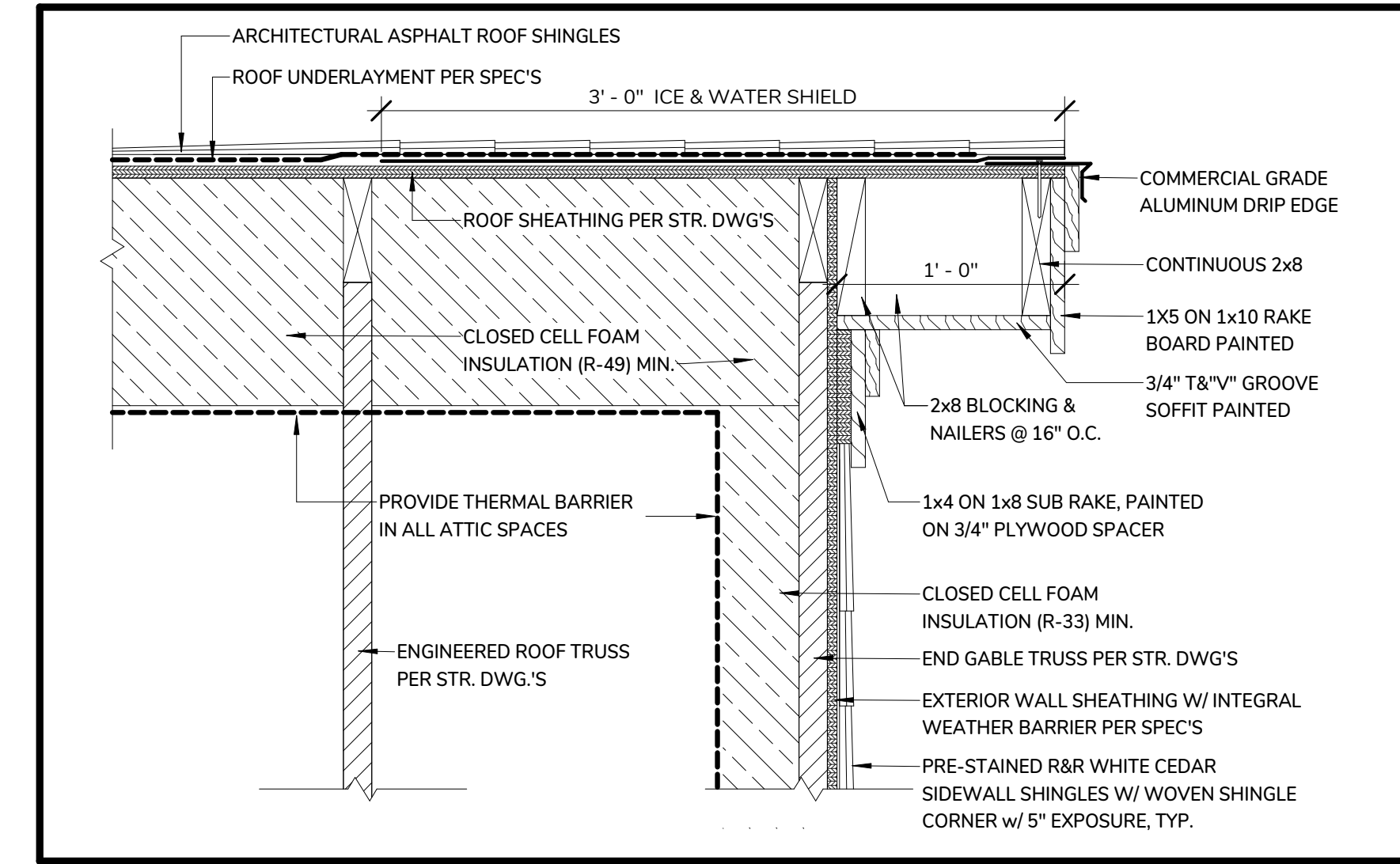
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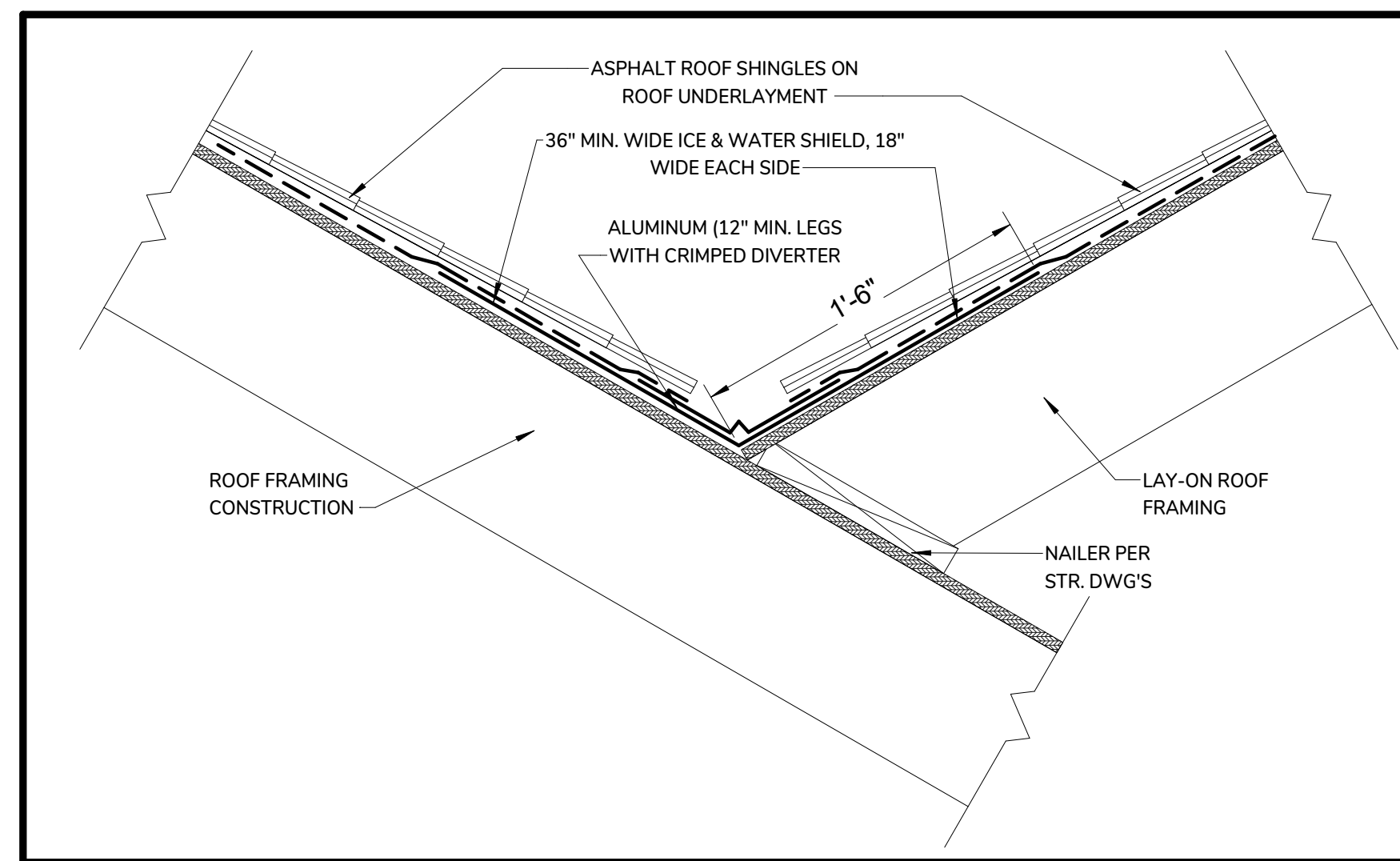
6 TYPICAL RIDGE DETAIL.  
1 1/2" = 1'-0"



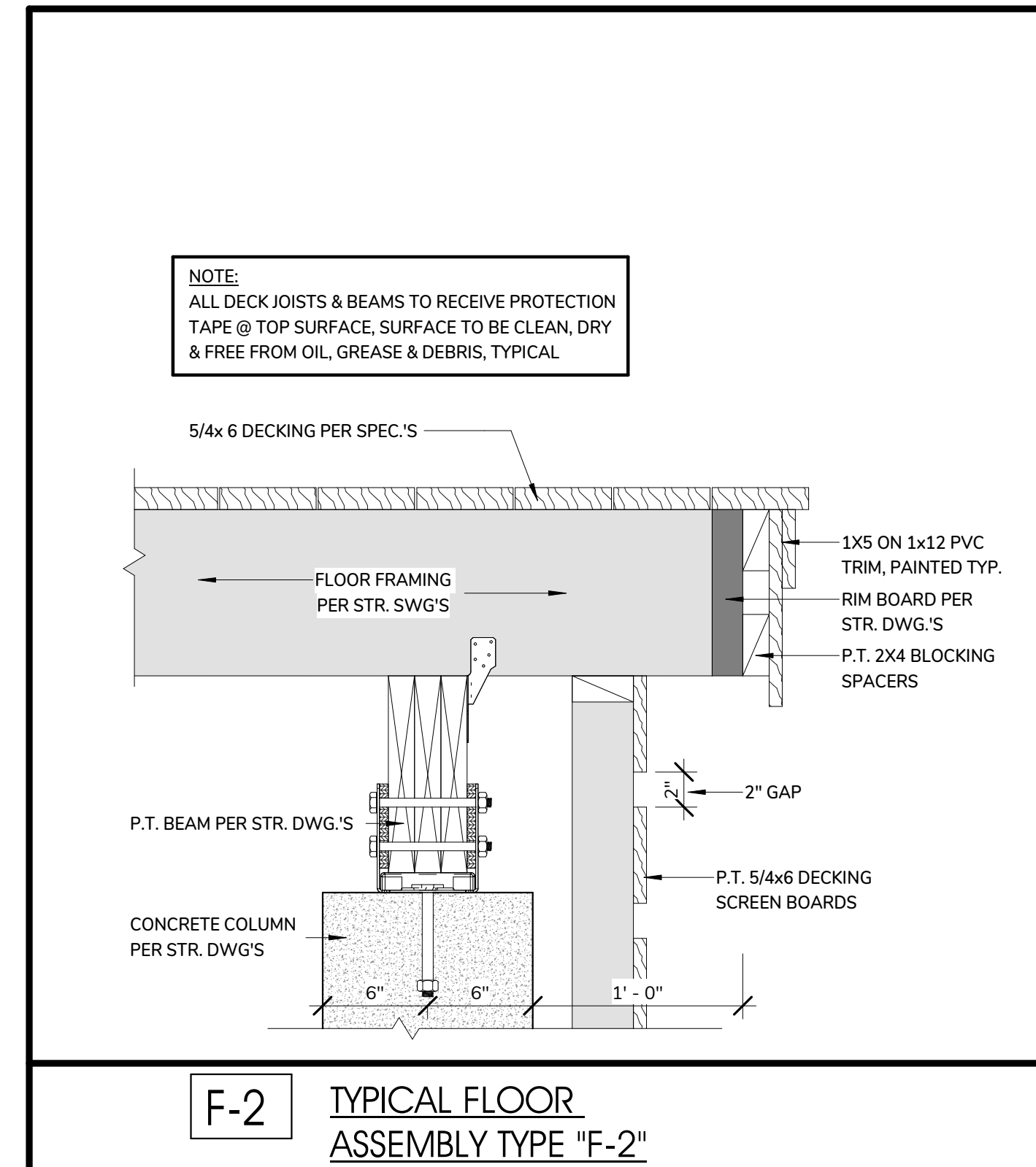
5 HARBORMASTER TYPICAL ROOF & CEILING ASSEMBLY DETAIL (RC-1)  
1 1/2" = 1'-0"



4 TYPICAL RAKE BOARD DETAIL  
1 1/2" = 1'-0"

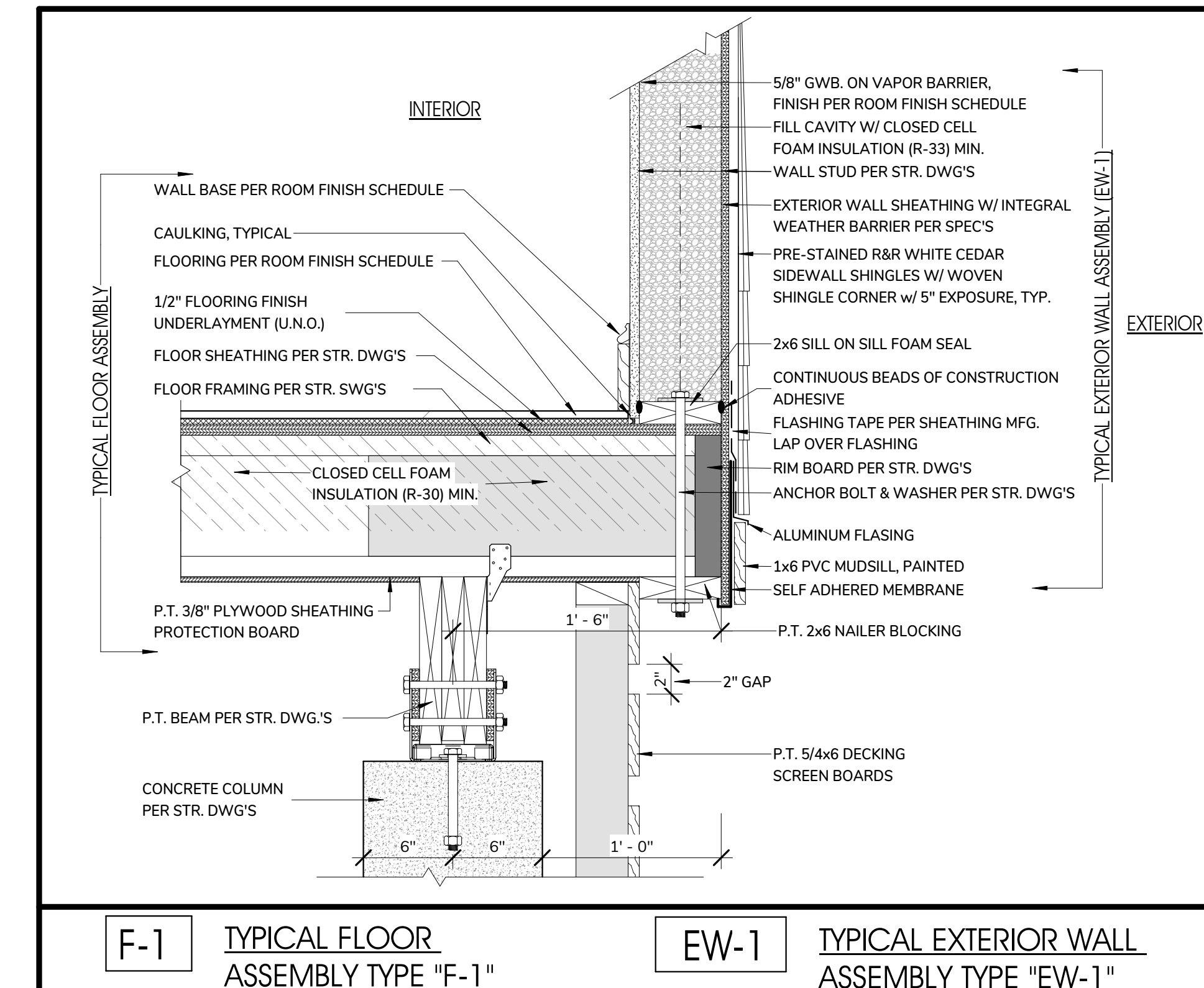


7 TYPICAL VALLEY DETAIL  
1 1/2" = 1'-0"



F-2 TYPICAL FLOOR ASSEMBLY TYPE "F-2"

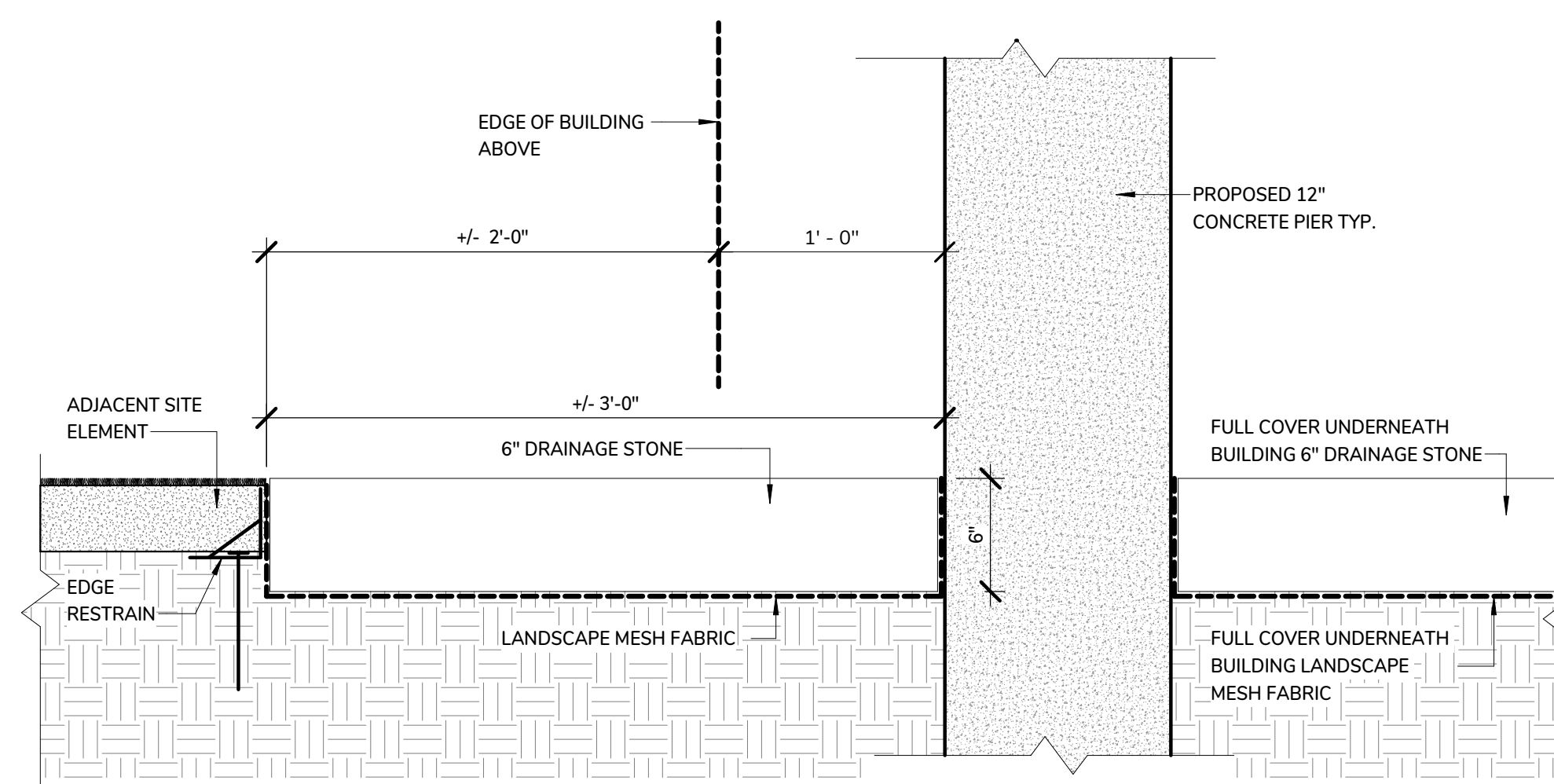
3 TYPICAL FLOOR ASSEMBLY TYPE "F-2"  
1 1/2" = 1'-0"



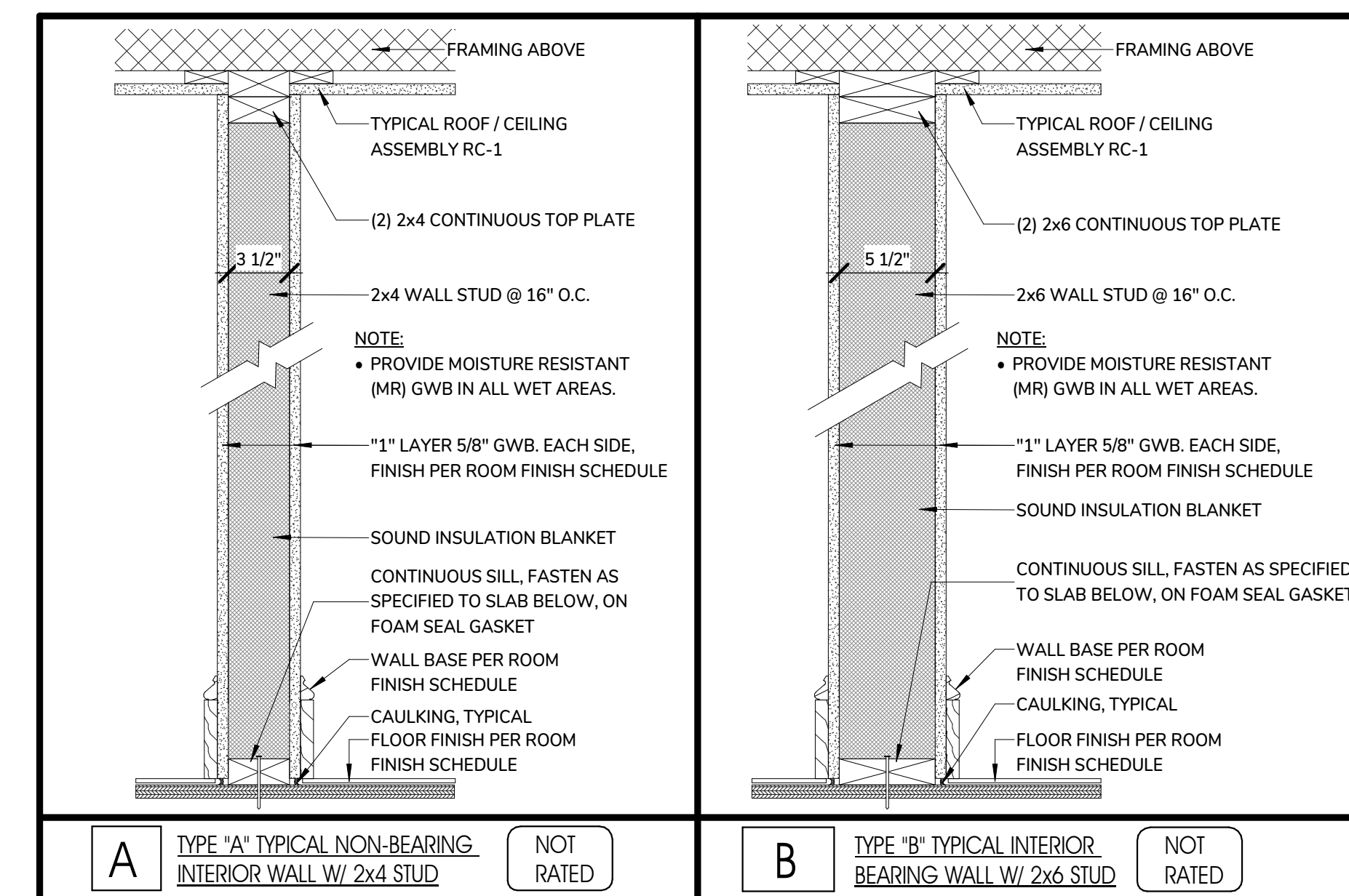
F-1 TYPICAL FLOOR ASSEMBLY TYPE "F-1"

EW-1 TYPICAL EXTERIOR WALL ASSEMBLY TYPE "EW-1"

2 TYPICAL FLOOR & EXTERIOR WALL ASSEMBLY  
1 1/2" = 1'-0"



8 TYPICAL DRAINAGE STONE SECTION DETAIL  
1 1/2" = 1'-0"



A TYPE "A" TYPICAL NON-BEARING INTERIOR WALL W/ 2x4 STUD NOT RATED

B TYPE "B" TYPICAL INTERIOR BEARING WALL W/ 2x6 STUD NOT RATED

1 TYPICAL INTERIOR PARTITION ASSEMBLY DETAILS  
1 1/2" = 1'-0"

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DENNIS, MA 02660

TITLE:  
**HARBORMASTER GARAGE - DETAILS**

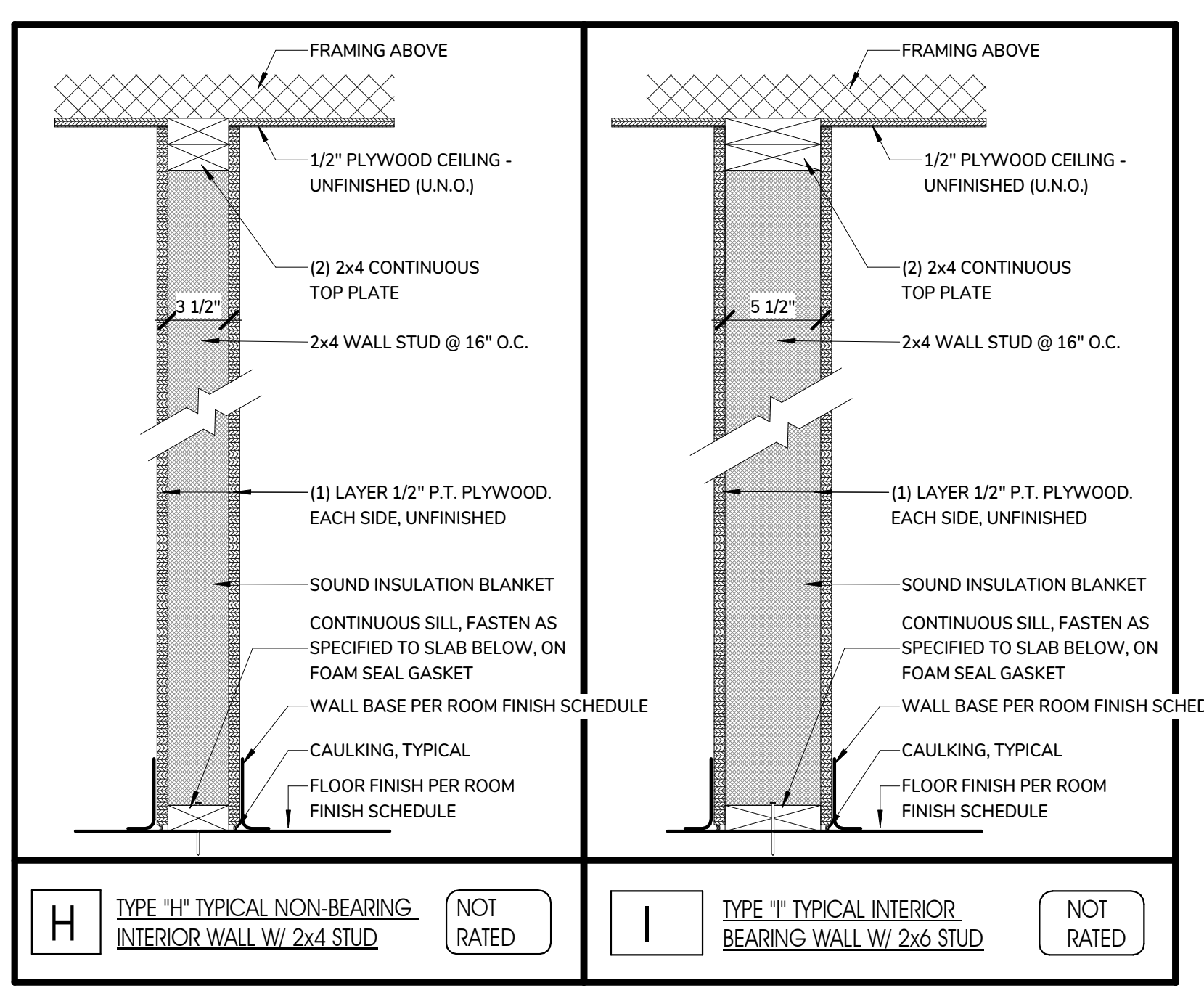
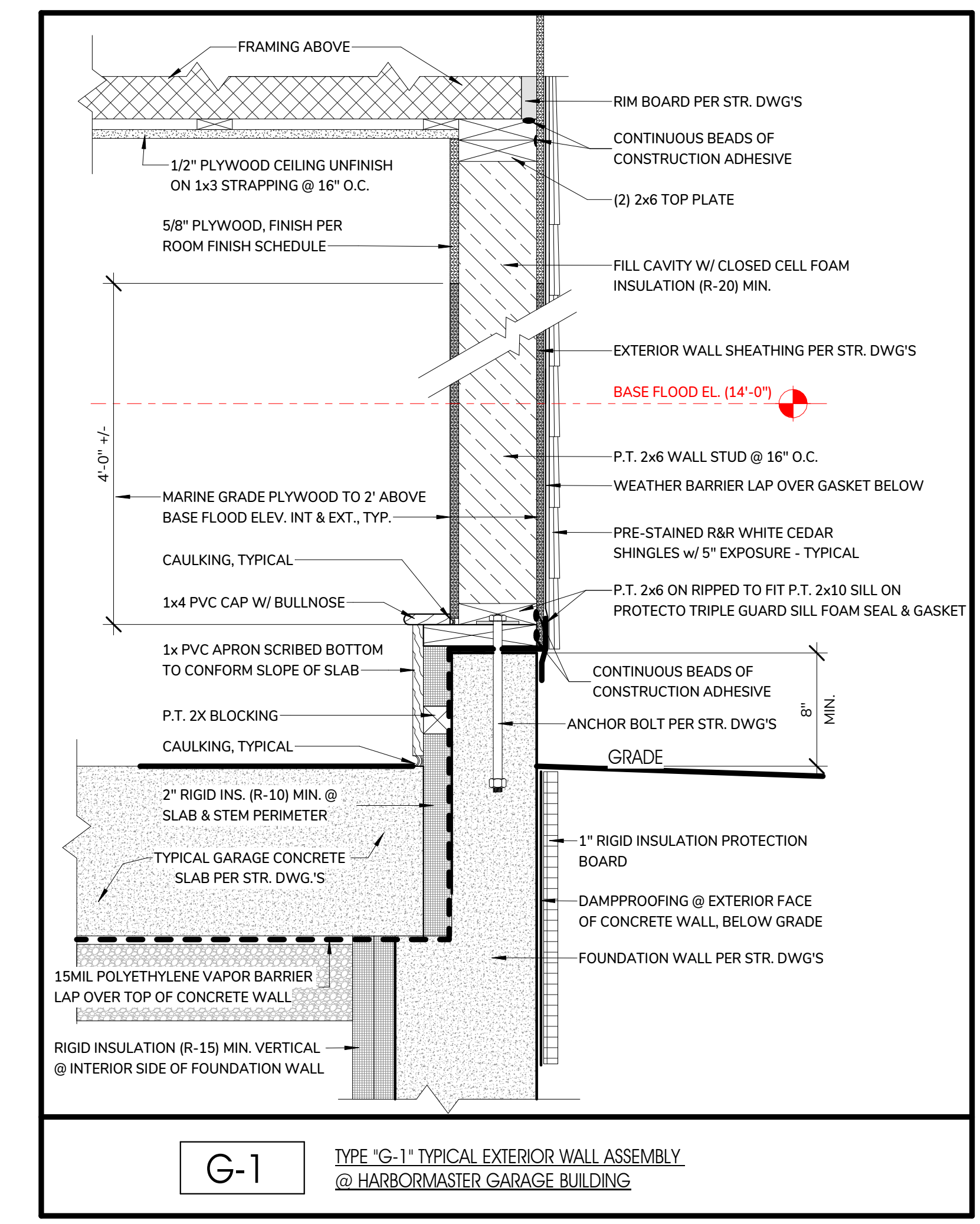
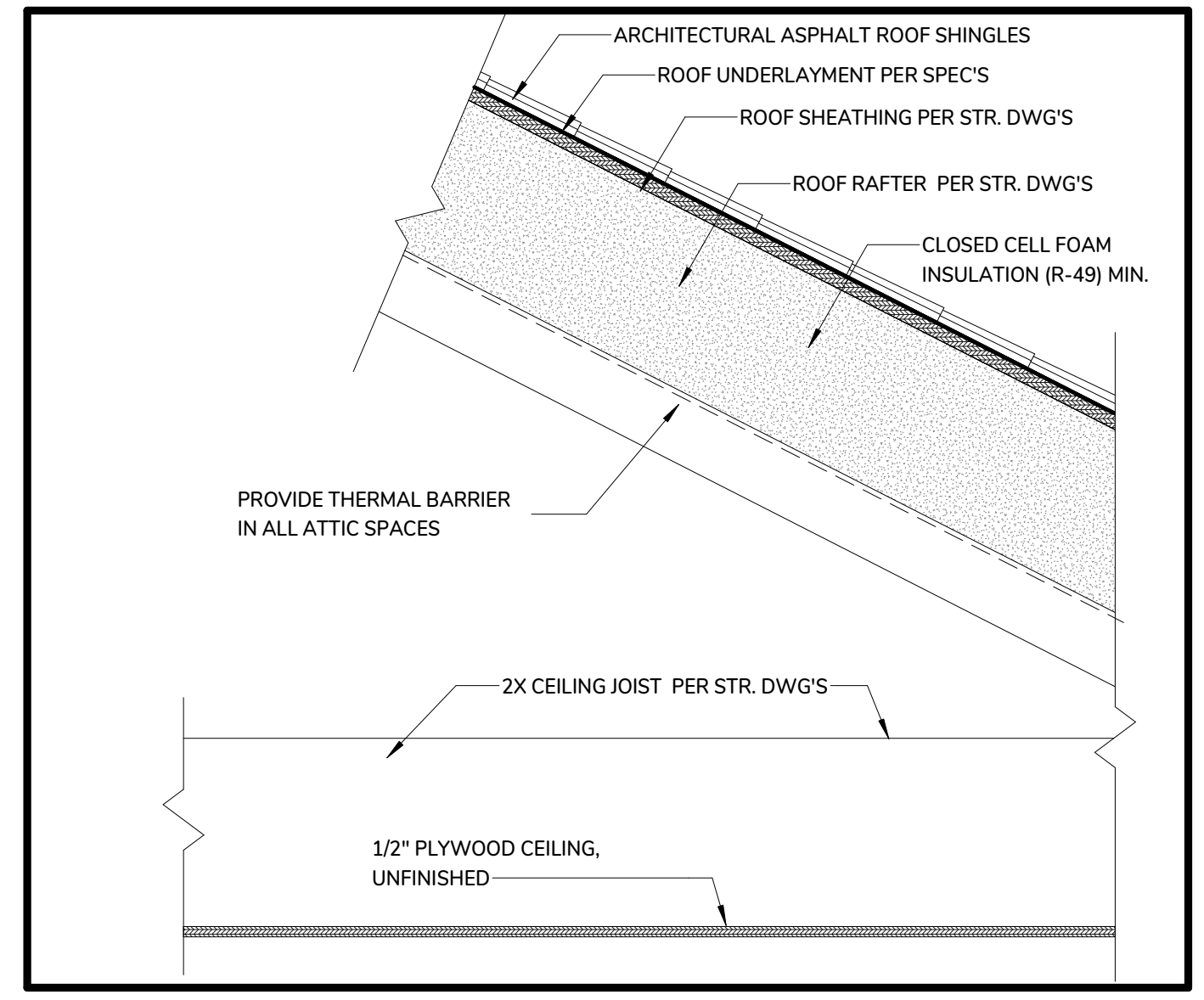
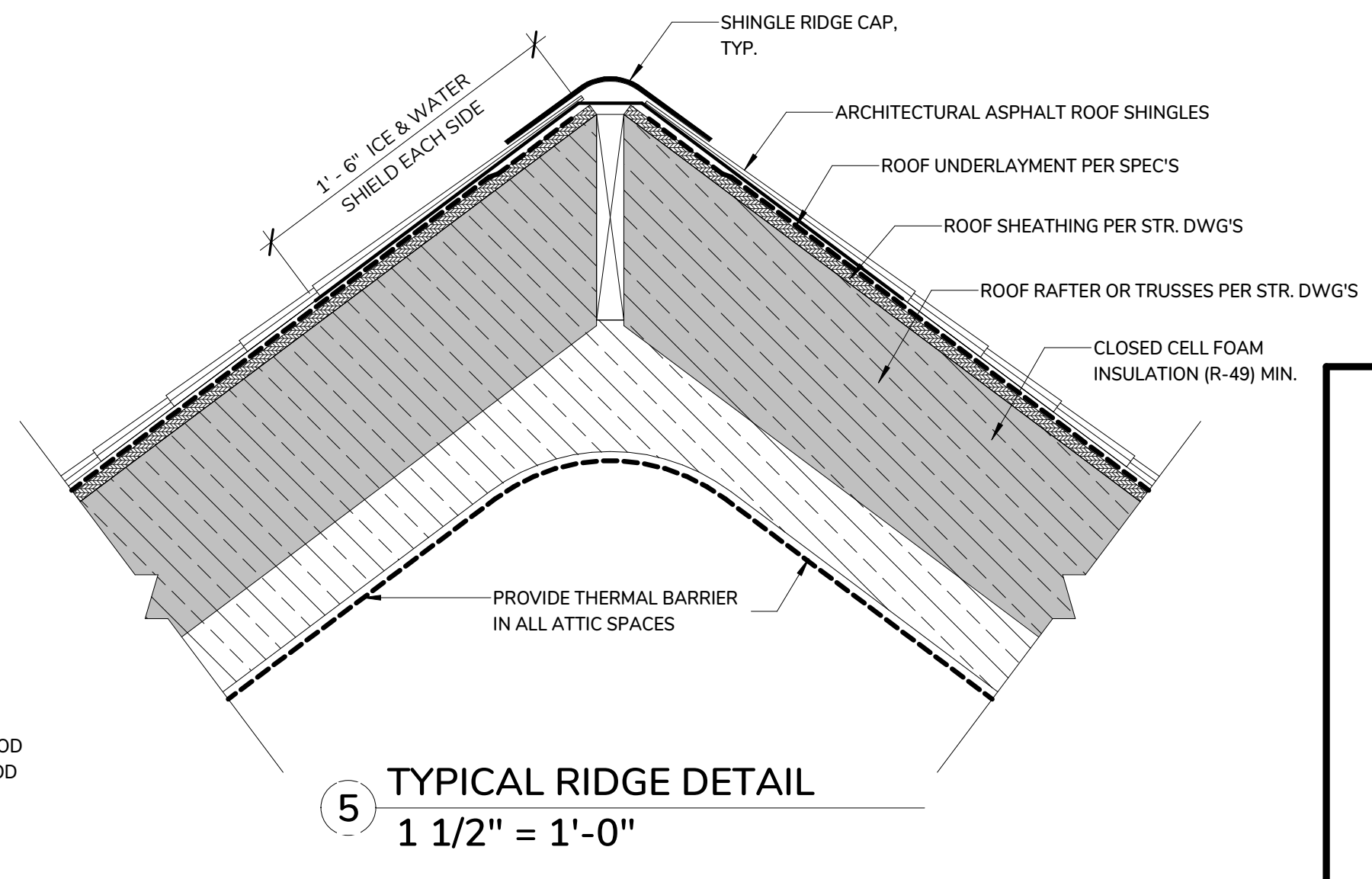
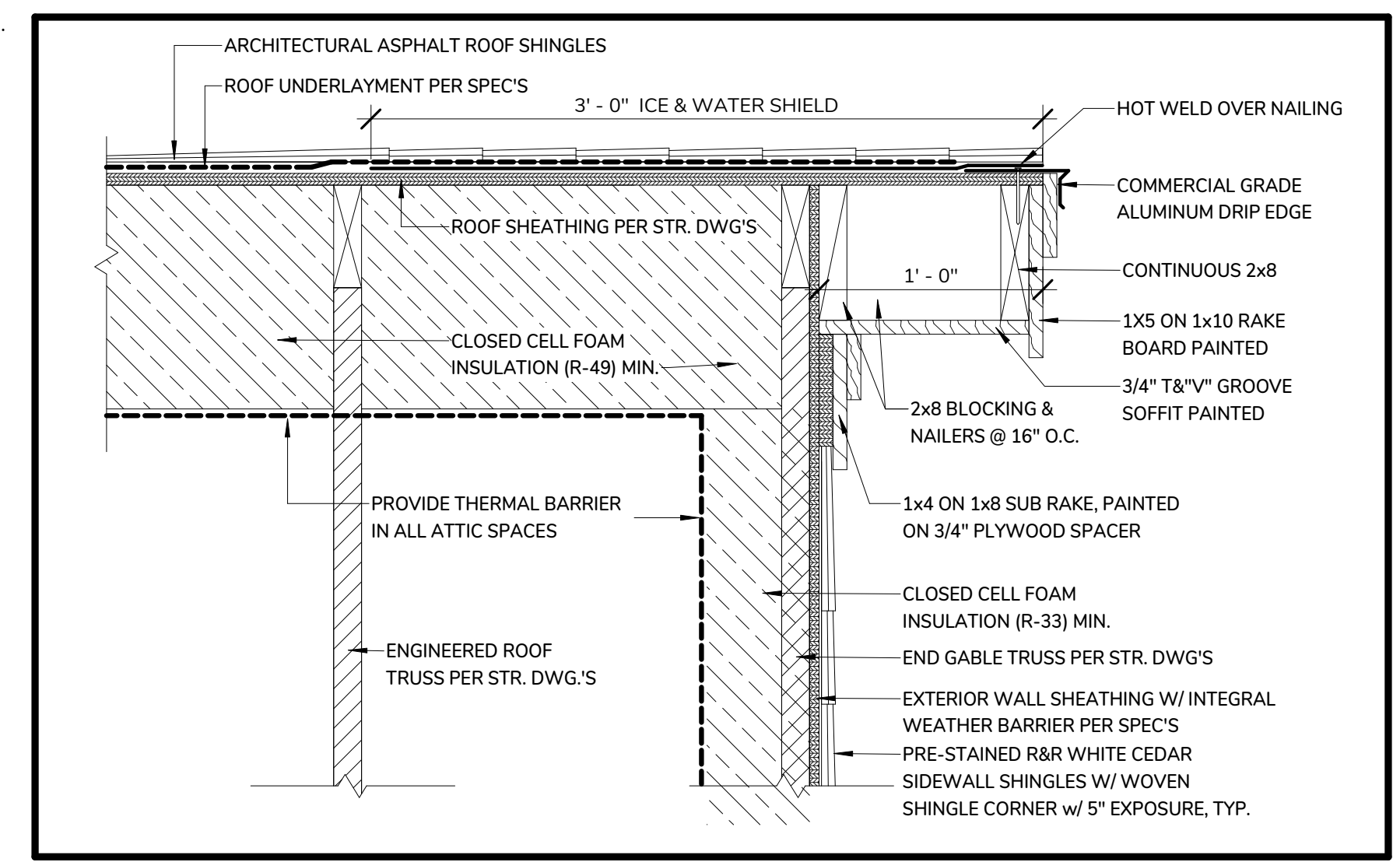
DATE ISSUED: 08 . 01 . 2025

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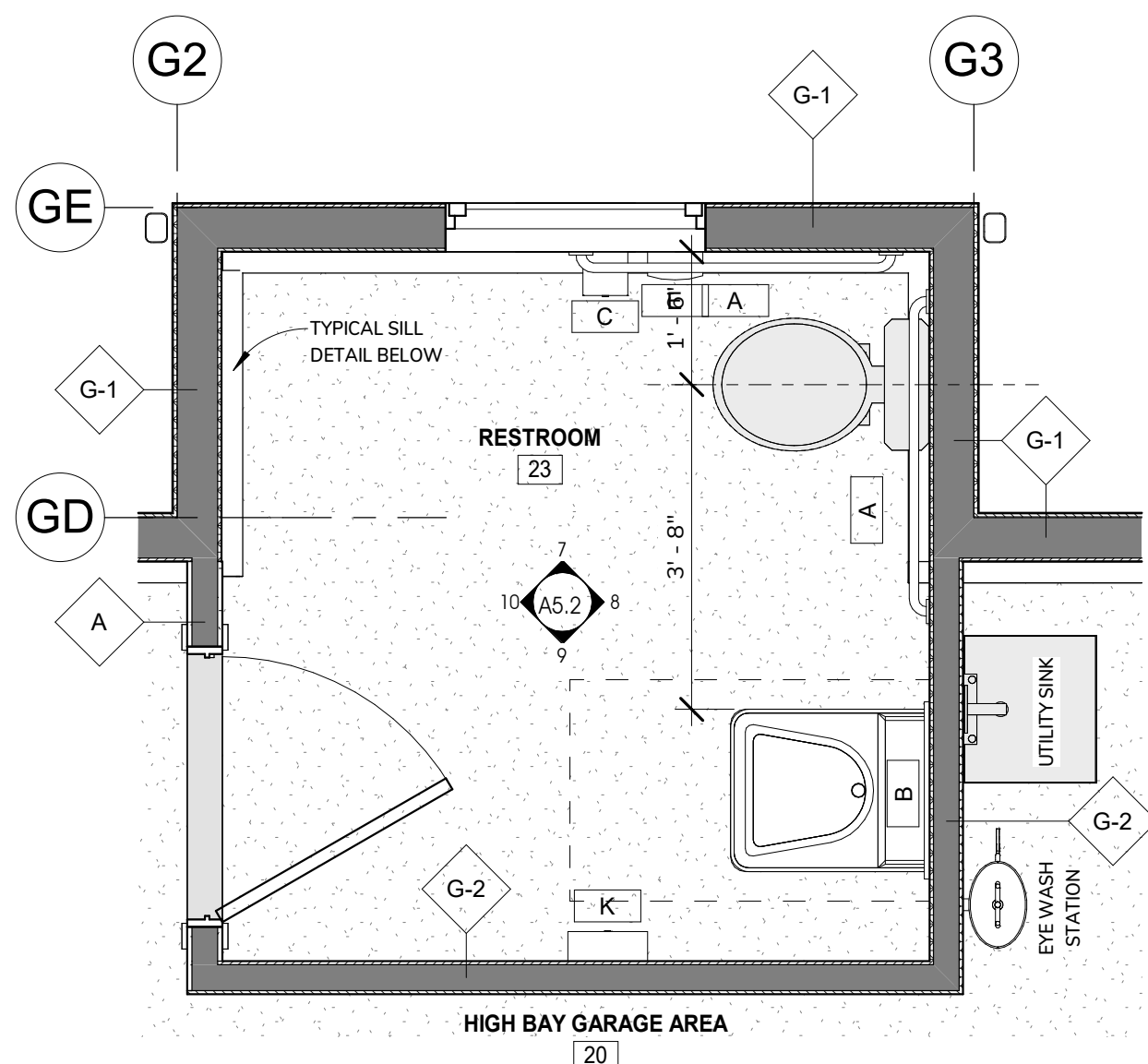
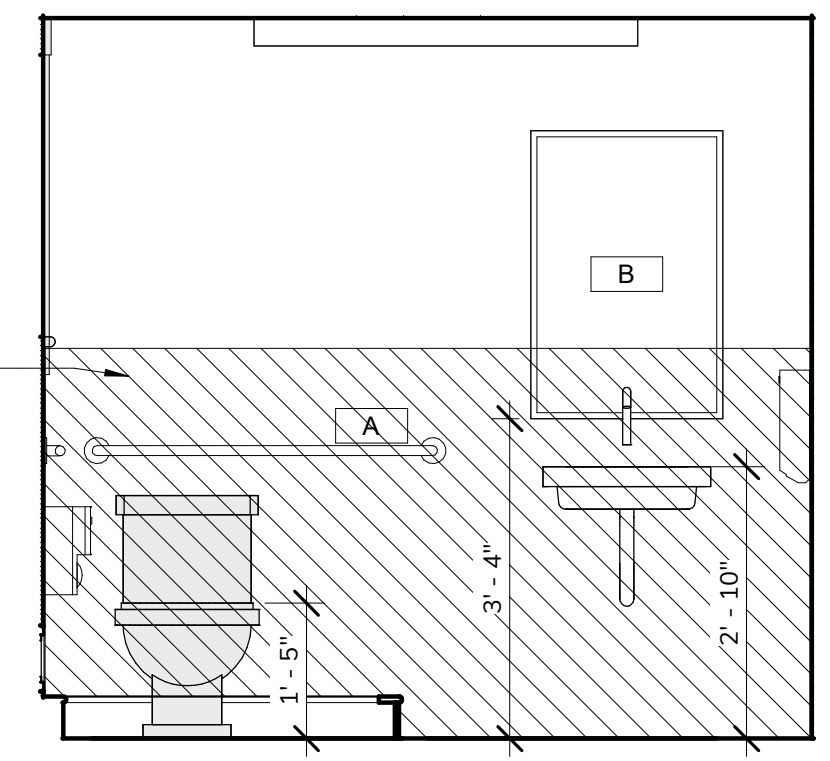
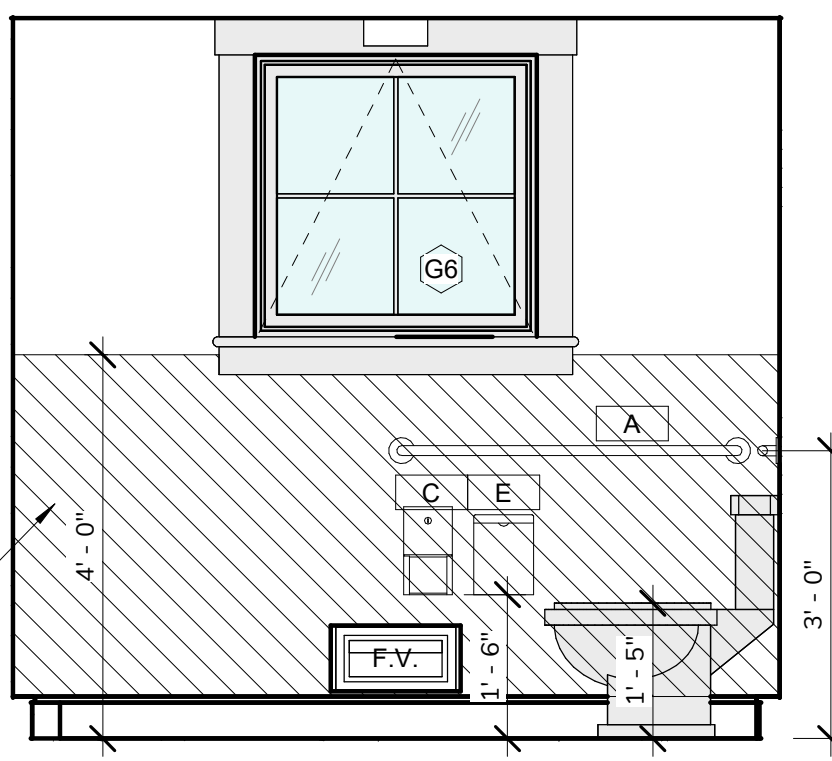
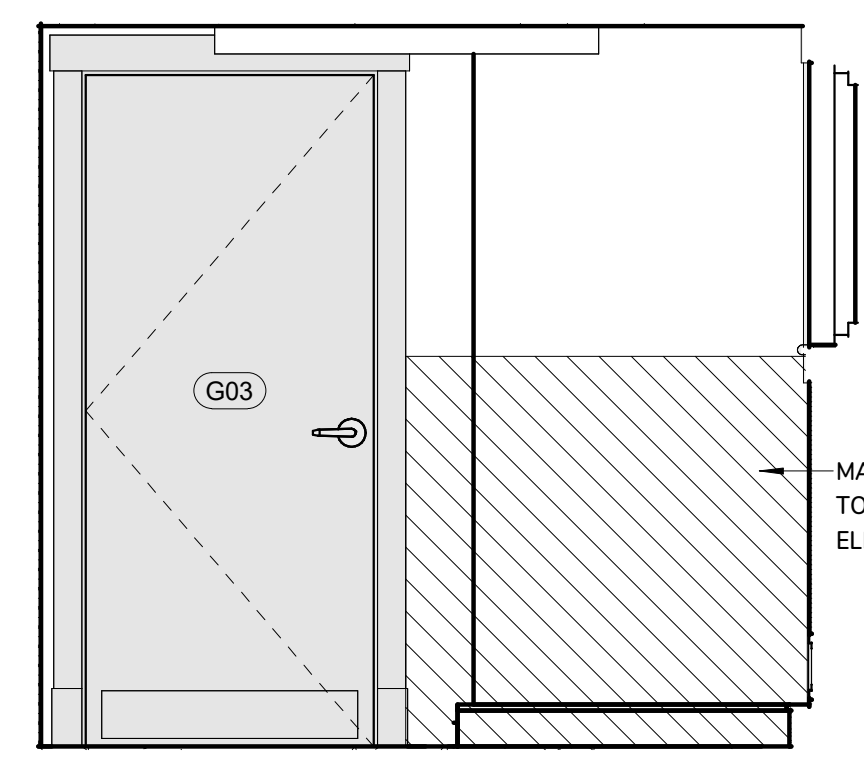
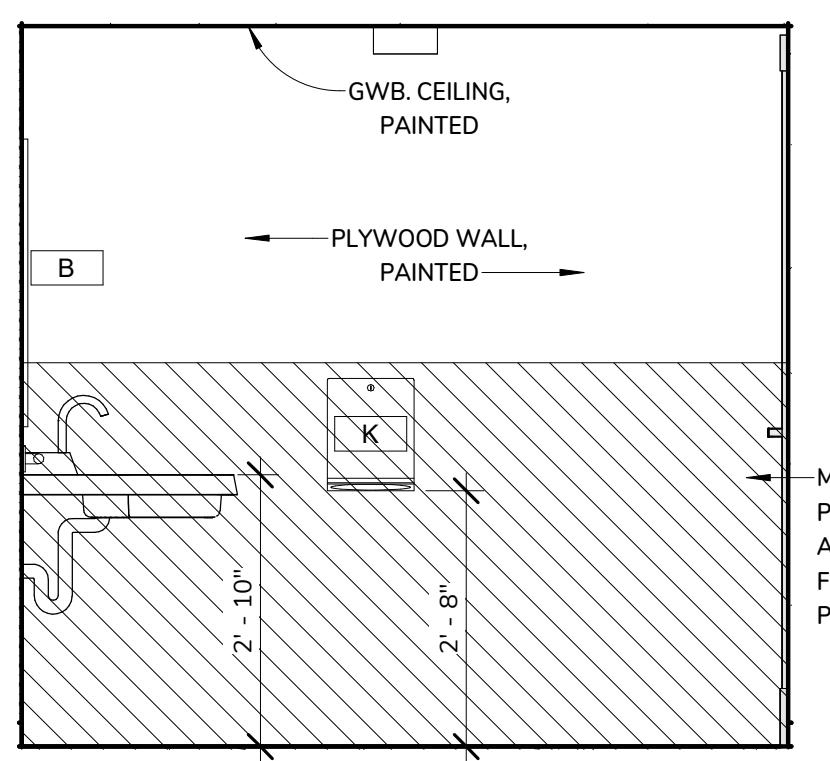
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Mark	Description
A	42" L. x 1 1/4" DIAM. GRAB BAR W/ SNAP FLANGE
A1	54" L. x 1 1/4" DIAM. GRAB BAR W/ SNAP FLANGE
A2	30" L. x 1 1/4" DIAM. GRAB BAR W/ SNAP FLANGE
B	GLASS MIRROR W/ STAINLESS STEEL FRAME
C	SURFACE MOUNTED TOILET TISSUE DISPENSER
D	RECESSED HAND DRYER WITH INTEGRAL WALL GUARD BELOW
E	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
F	KB310-SSWM Baby Changing Station
G	DOUBLE COAT HOOK
H	SURFACE MOUNTED SOAP DISPENSER
J	24" TOWEL BAR
K	SURFACE MOUNTED PAPER TOWEL DISPENSER



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DENNIS, MA 02660

TITLE:  
HARBORMASTER  
OFFICE - EXTERIOR  
RAMP DETAILS

DATE ISSUED: 08 . 01 . 2025

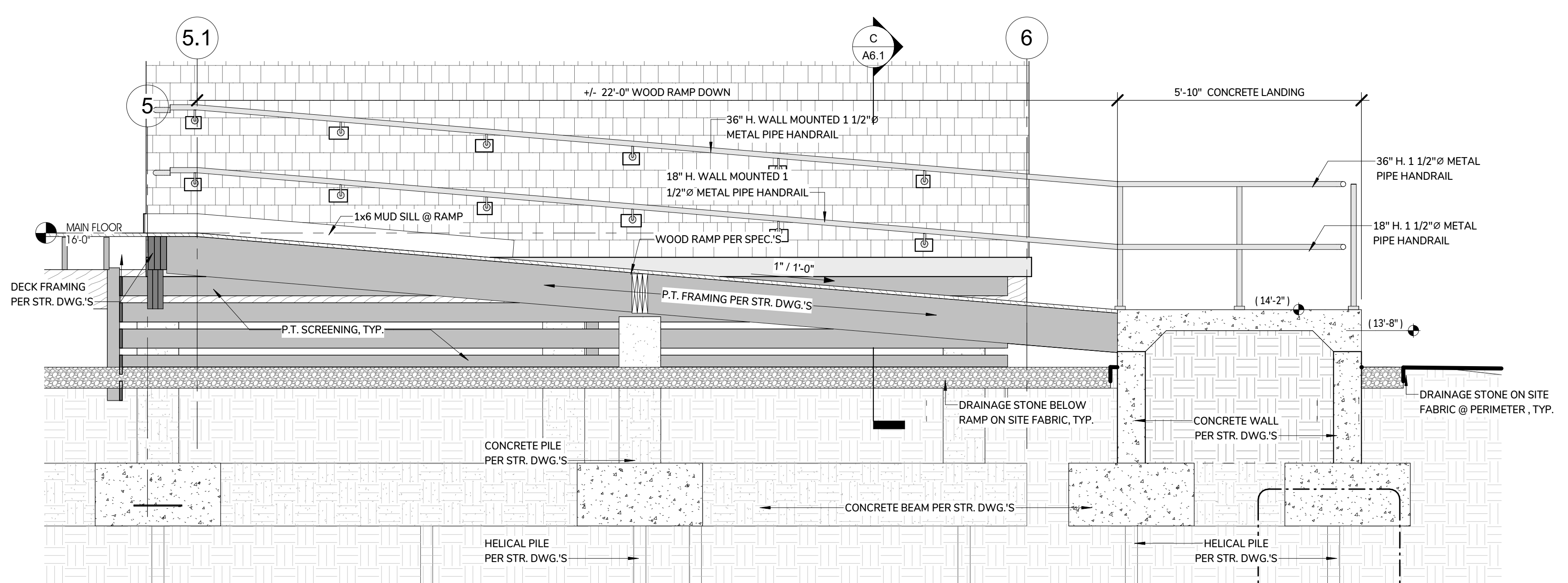
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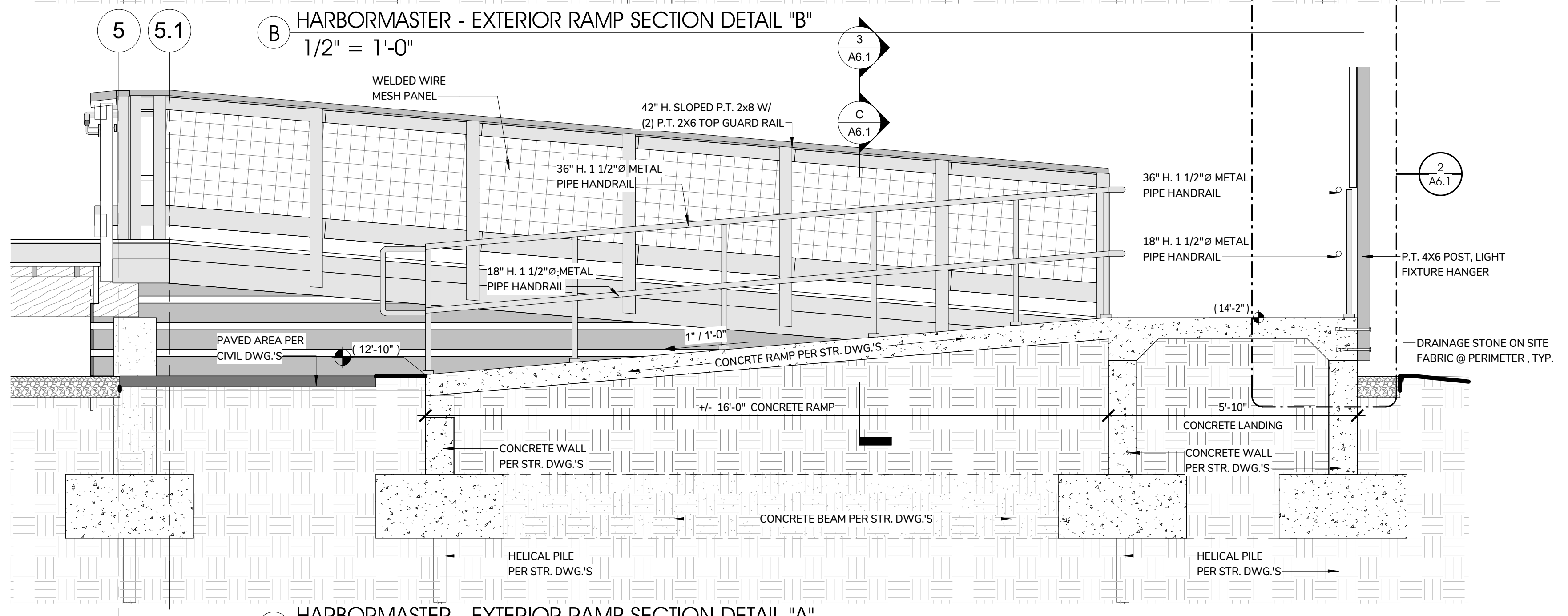
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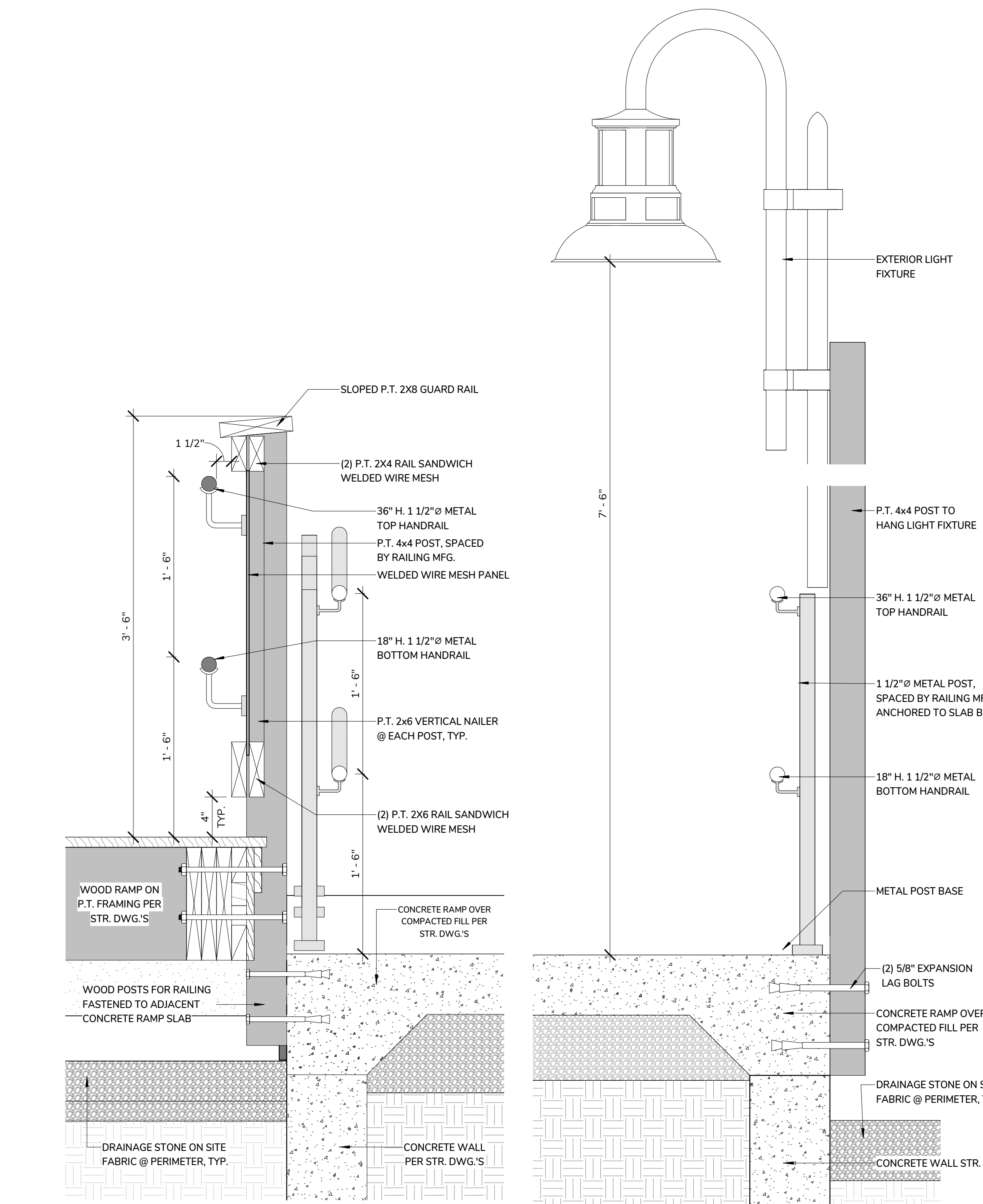
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B HARBORMASTER - EXTERIOR RAMP SECTION DETAIL "B"  
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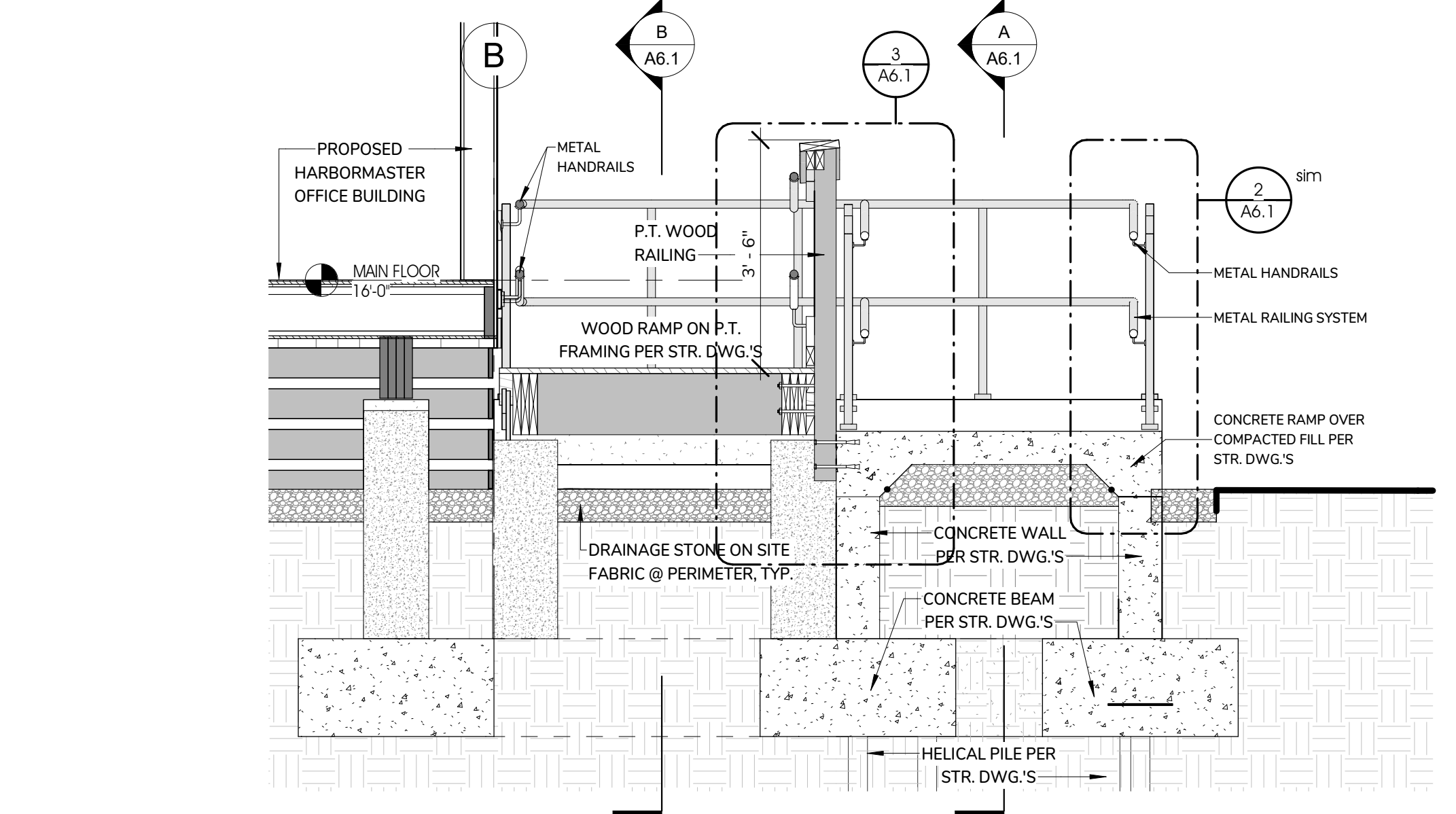


A HARBORMASTER - EXTERIOR RAMP SECTION DETAIL "A"  
1/2" = 1'-0"

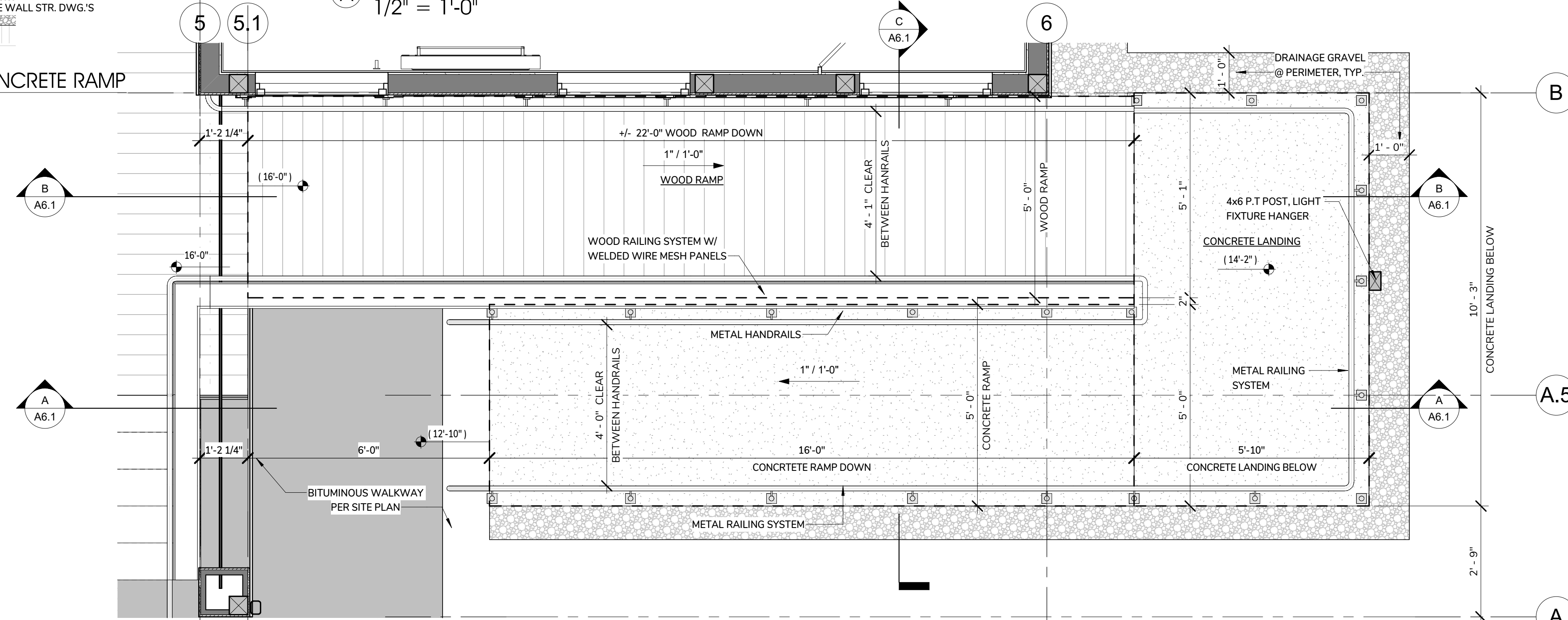


C.1 HARBORMASTER - EXTERIOR RAMP SECTION DETAIL "C.1"  
1 1/2" = 1'-0"

2 TYPICAL RAILING @ CONCRETE RAMP  
1 1/2" = 1'-0"



C HARBORMASTER - EXTERIOR RAMP SECTION DETAIL "C"  
1/2" = 1'-0"



1 HARBORMASTER OFFICE - EXTERIOR RAMP PLAN DETAIL  
1/2" = 1'-0"

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TITLE:  
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OFFICE -  
EXTERIOR  
STAIRS DETAIL

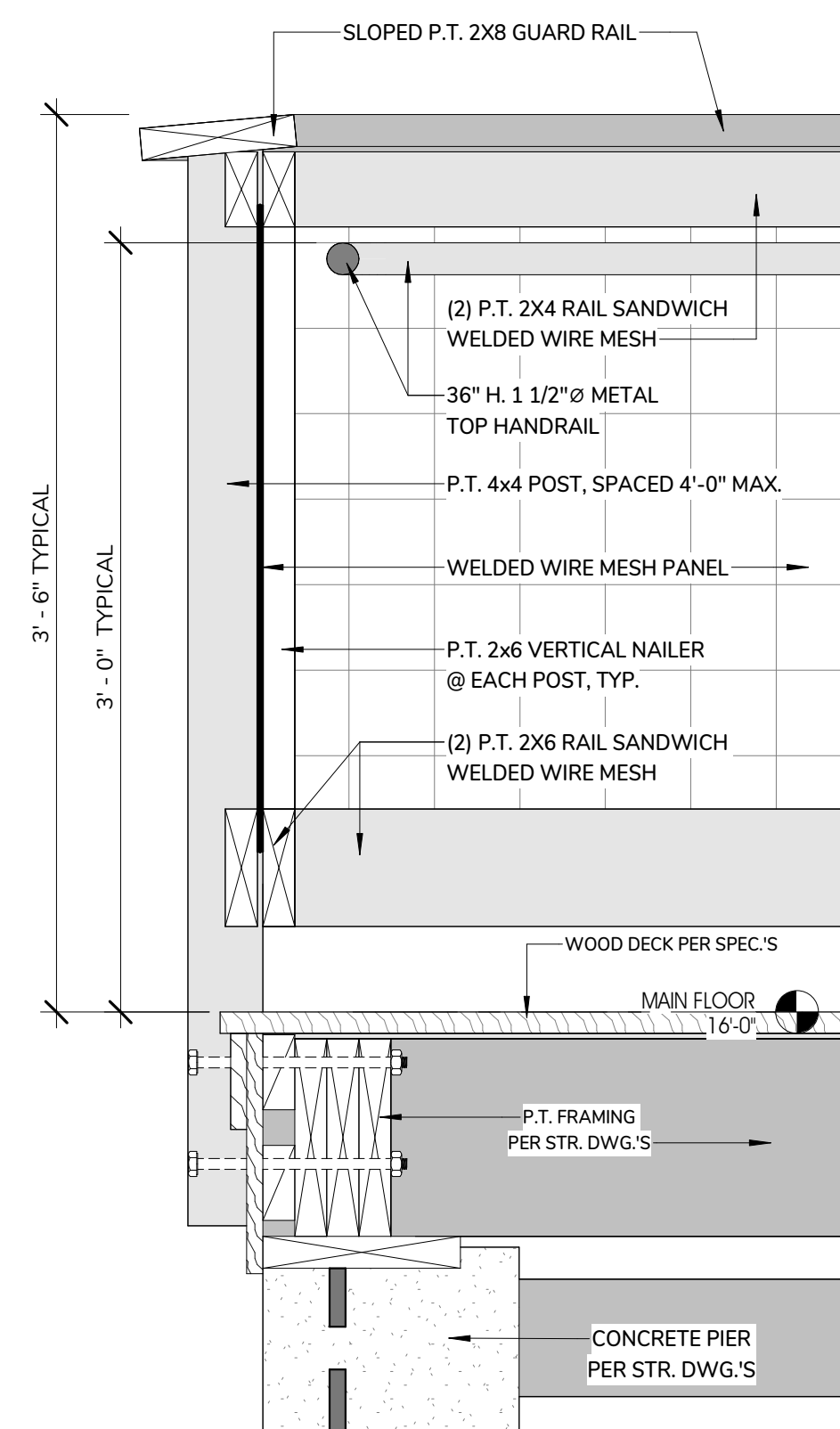
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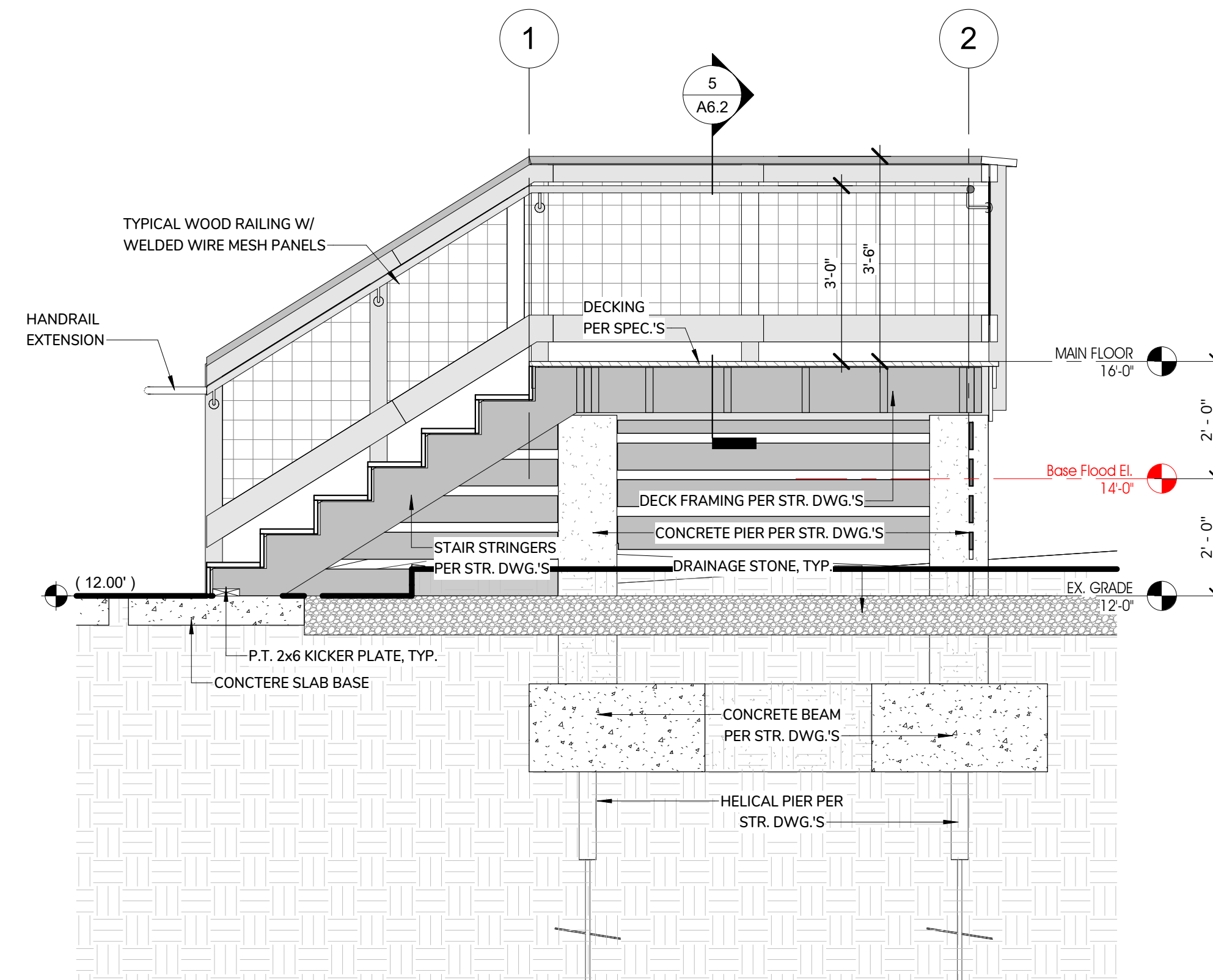
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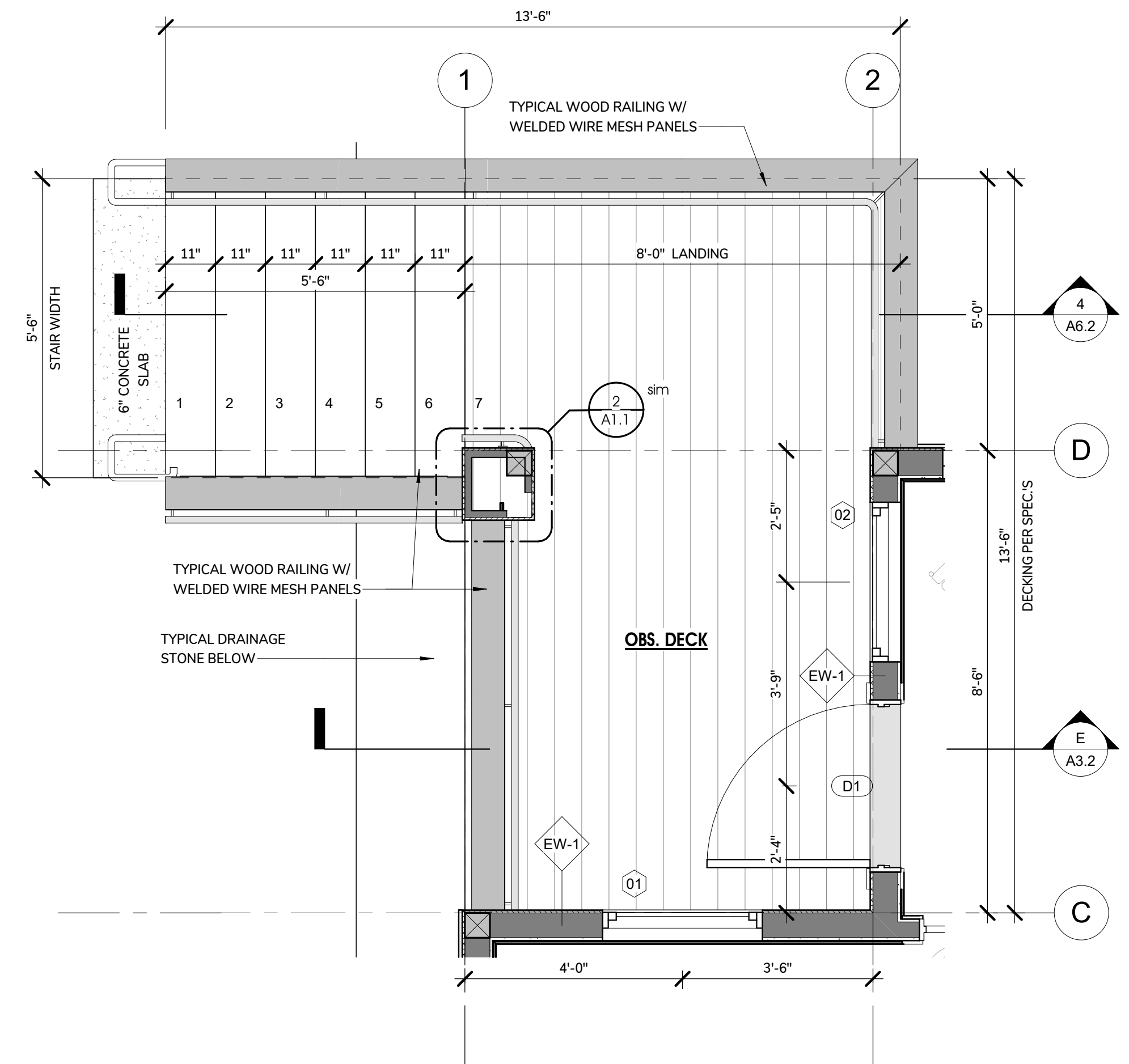
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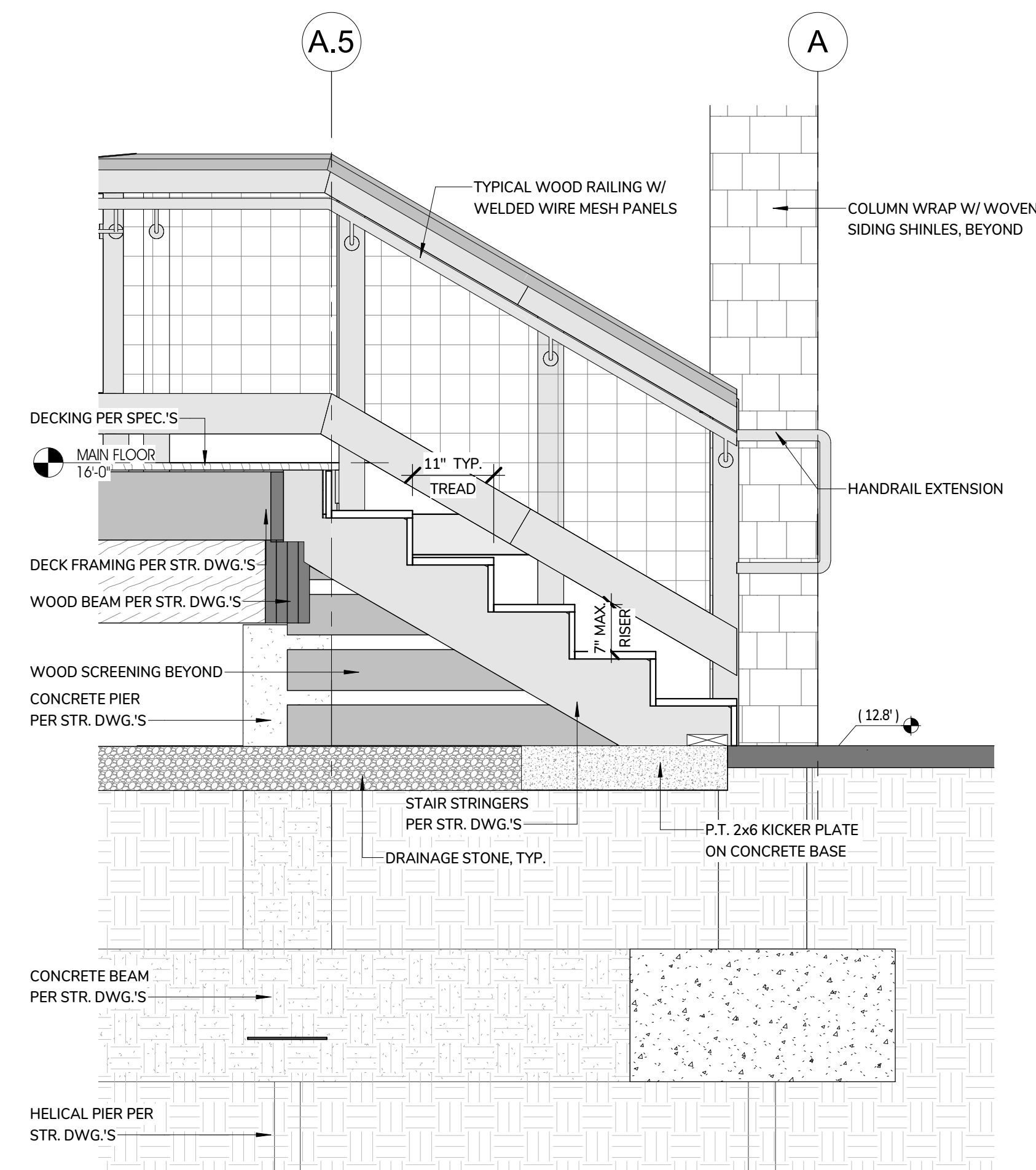
5 HARBORMASTER - WOOD RAILING DETAIL  
1 1/2" = 1'-0"



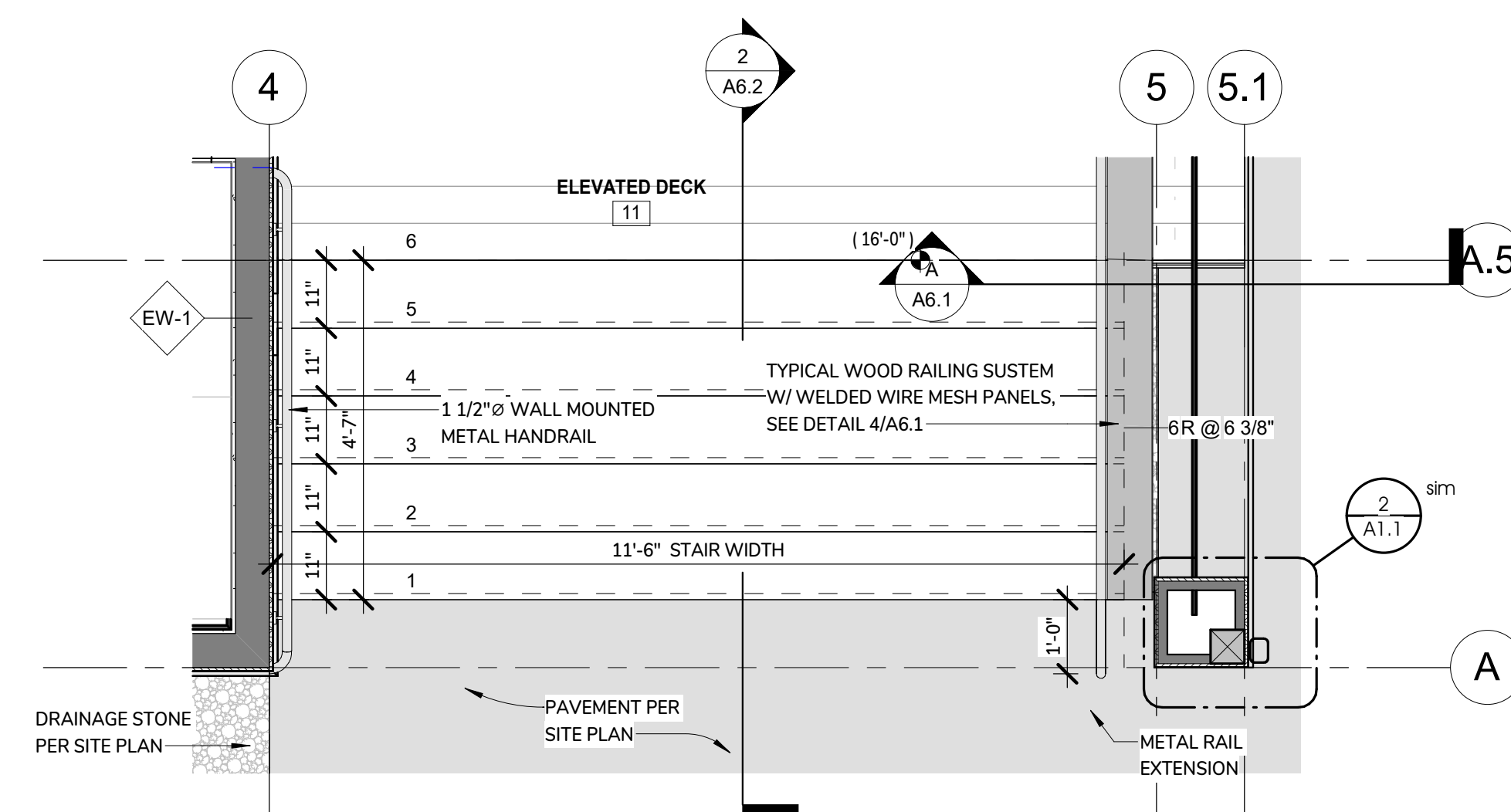
4 HARBORMASTER - SOUTH STAIR PLAN  
1/2" = 1'-0"



3 HARBORMASTER - SOUTH STAIR PLAN  
1/2" = 1'-0"



2 HARBORMASTER - NORTH STAIR SECTION  
3/4" = 1'-0"



1 HARBORMASTER - NORTH STAIR PLAN  
1/2" = 1'-0"

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TITLE:  
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OFFICE -  
ELEVATED  
DECK  
ELEVATIONS

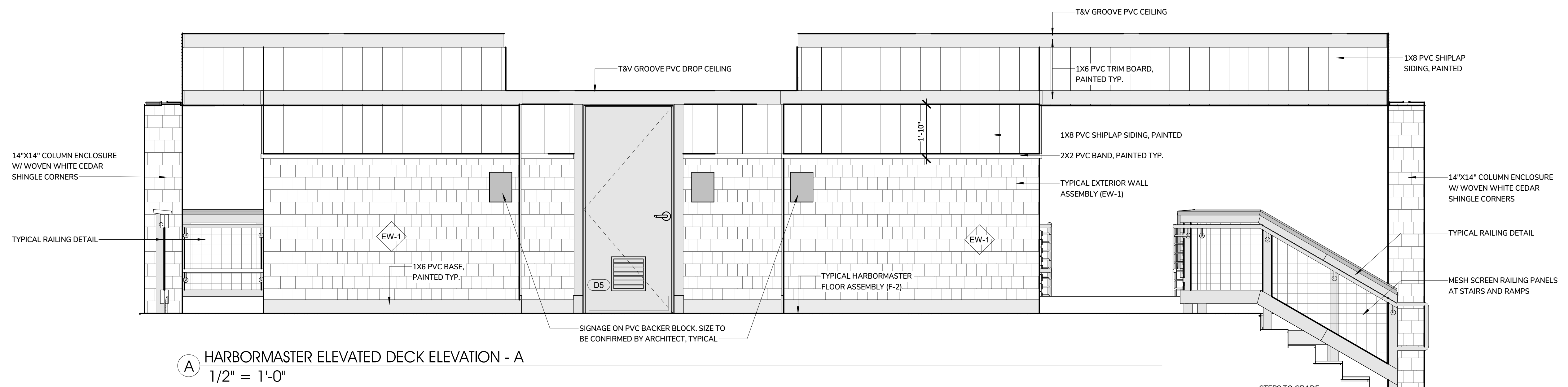
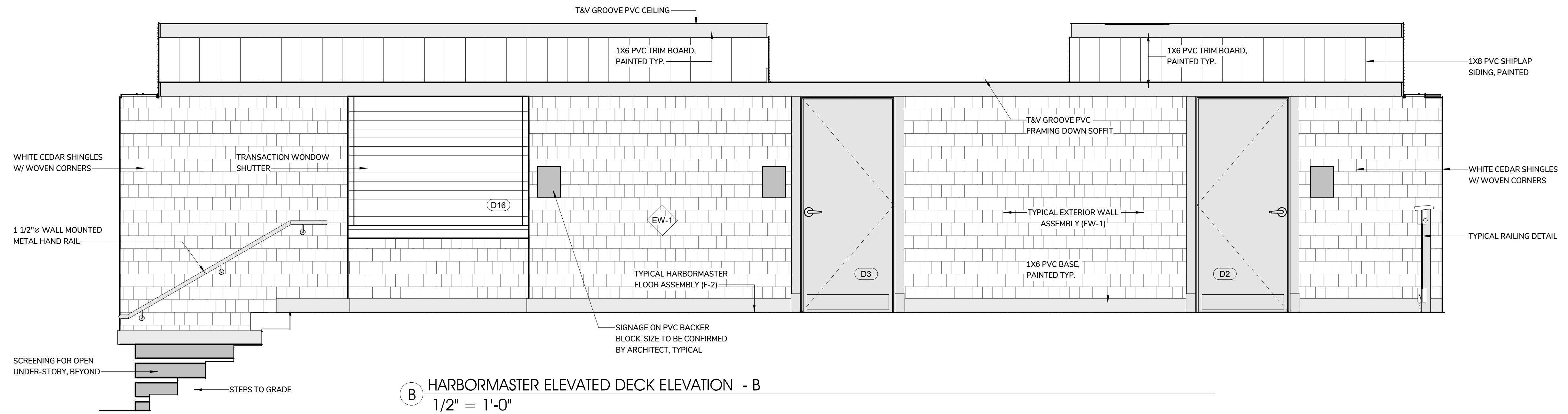
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TITLE:  
**HARBORMASTER**  
**OFFICE -**  
**ENLARGED**  
**PLANS &**  
**INTERIOR**

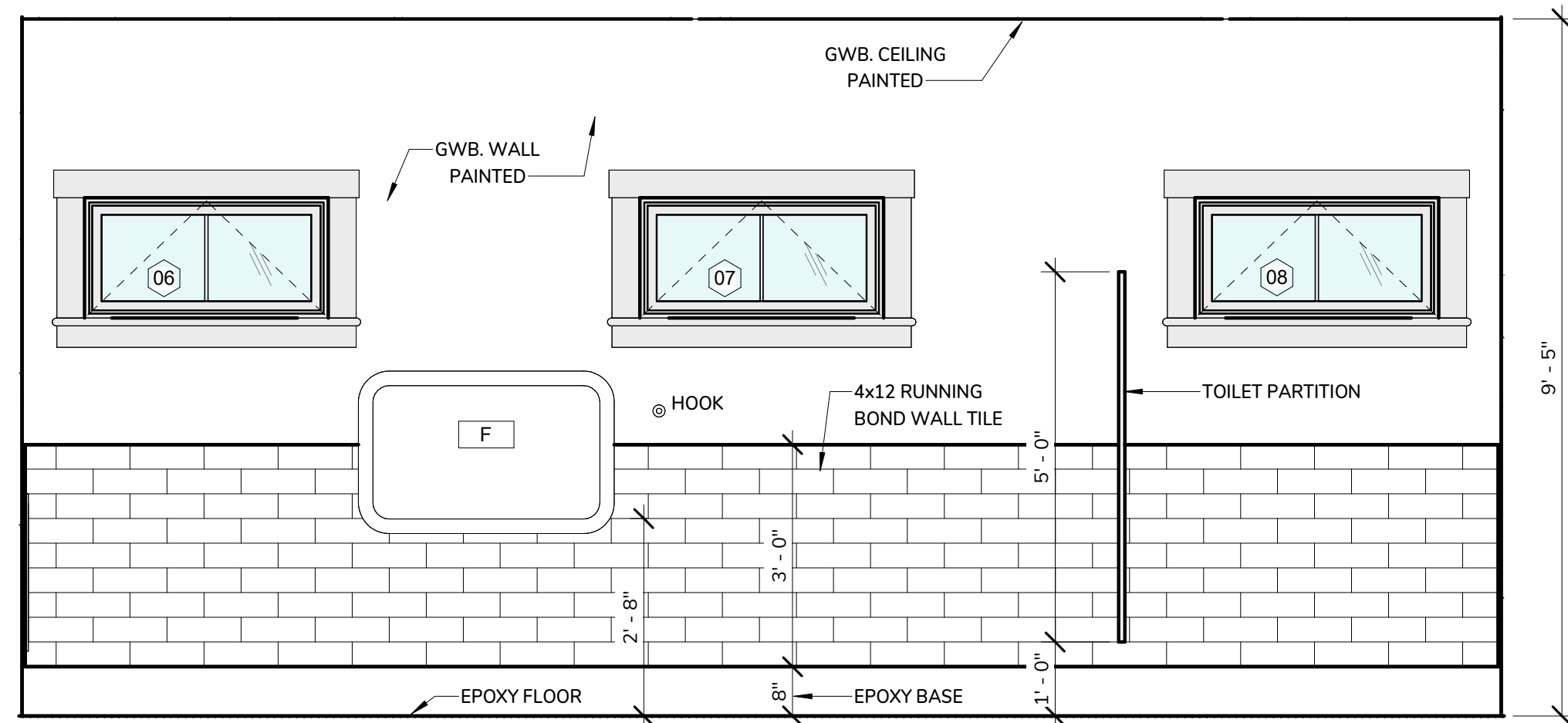
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No. Description Date

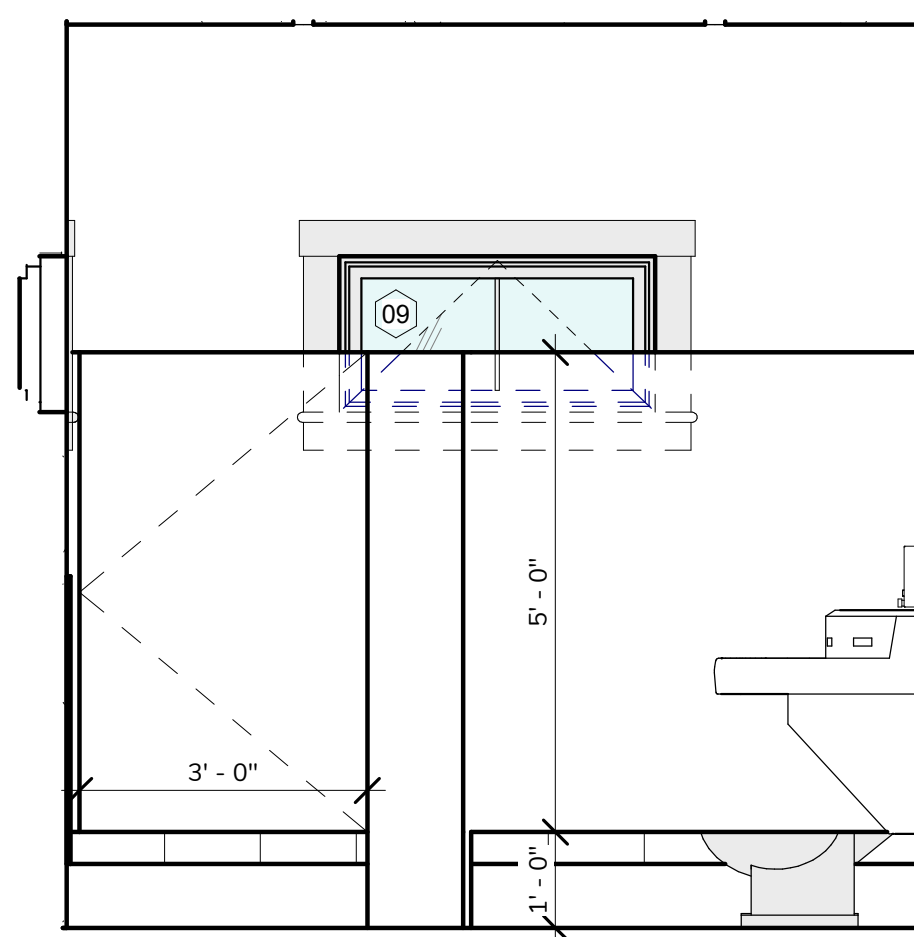
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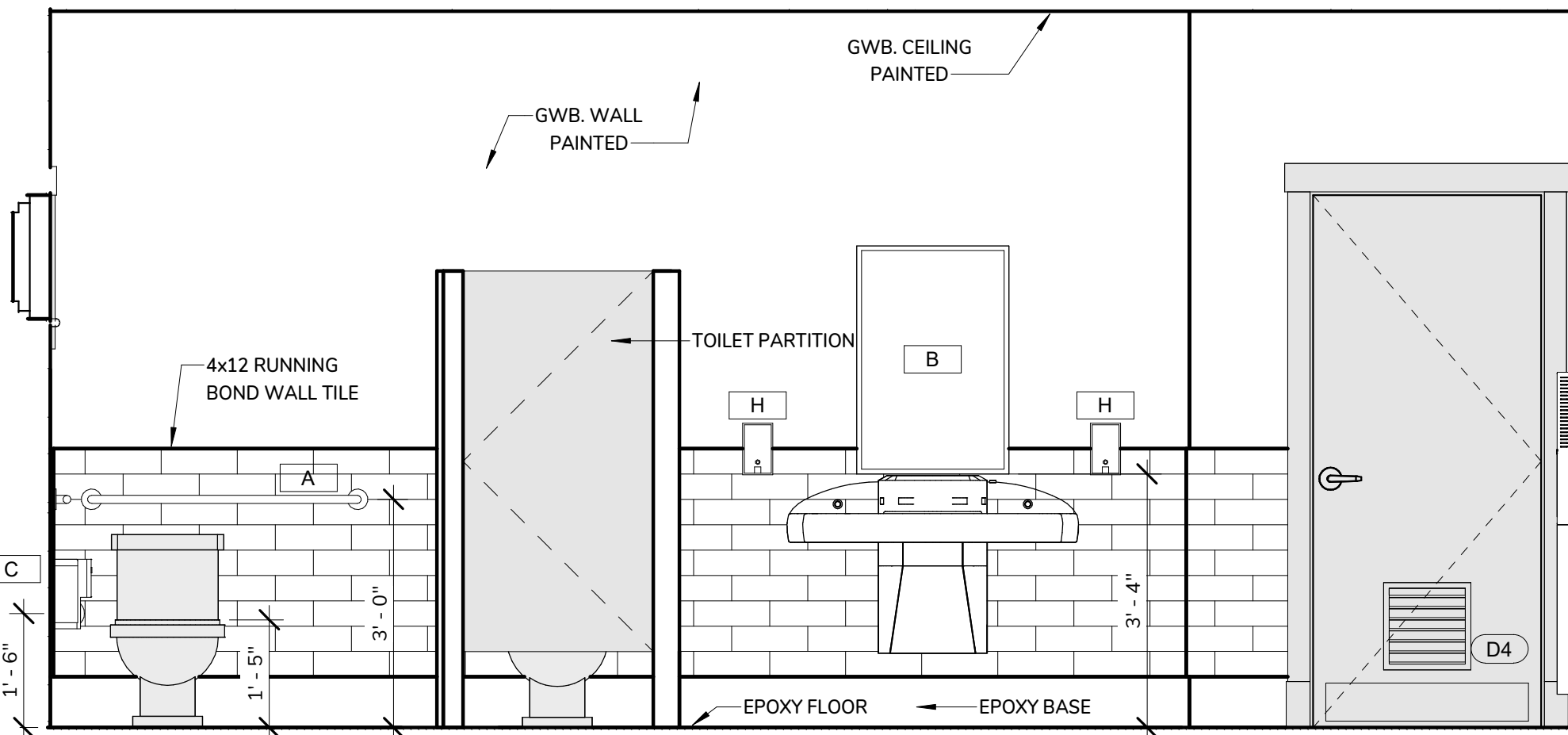
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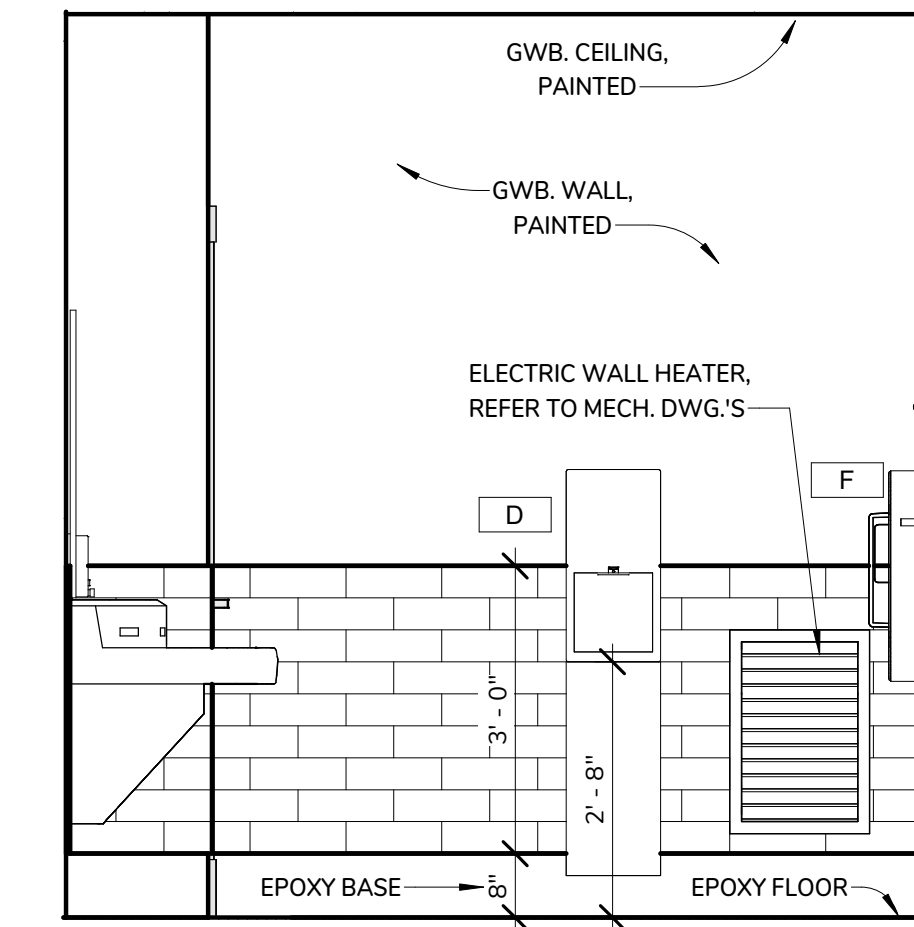
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1/2" = 1'-0"



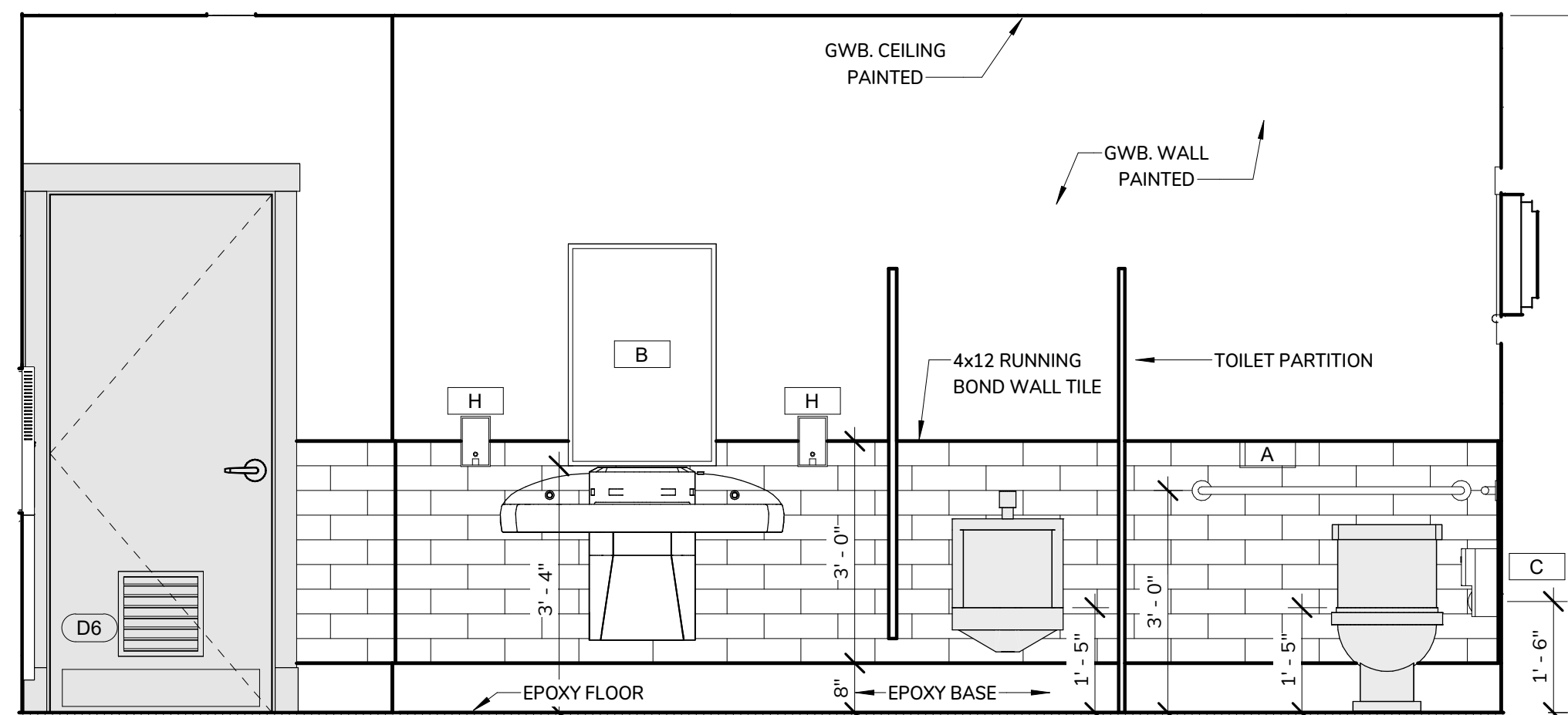
**B** PUBLIC WOMEN'S RESTROOM - B  
1/2" = 1'-0"



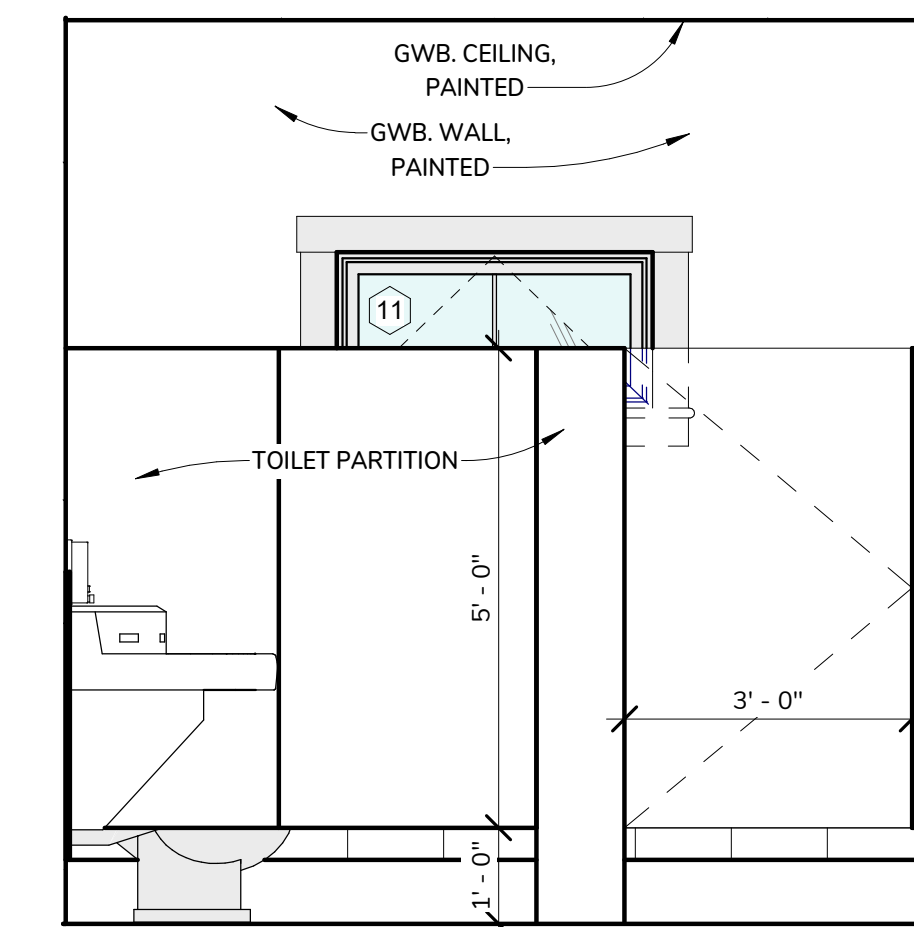
**C** PUBLIC WOMEN'S RESTROOM - C  
1/2" = 1'-0"



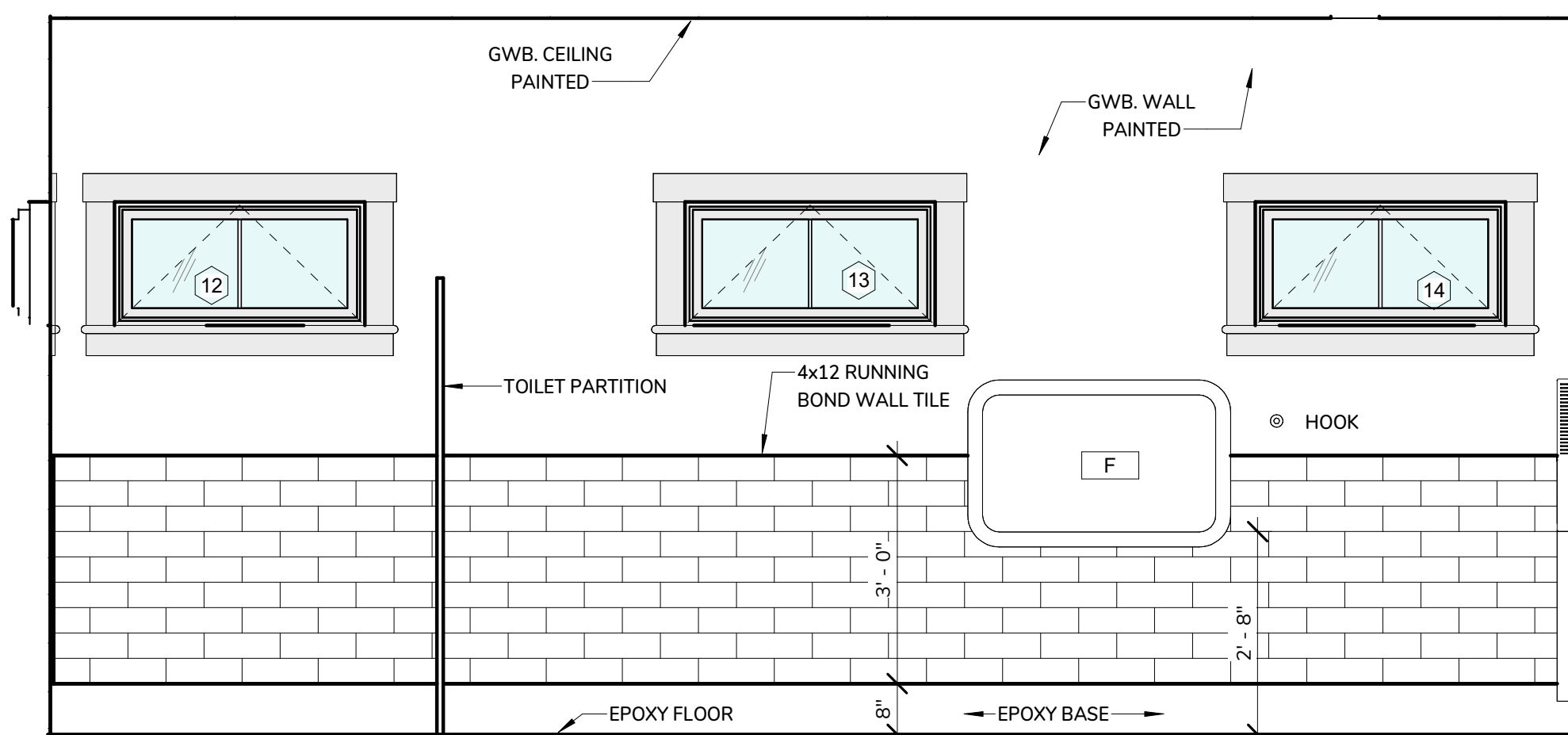
**D** PUBLIC WOMEN'S RESTROOM - D  
1/2" = 1'-0"



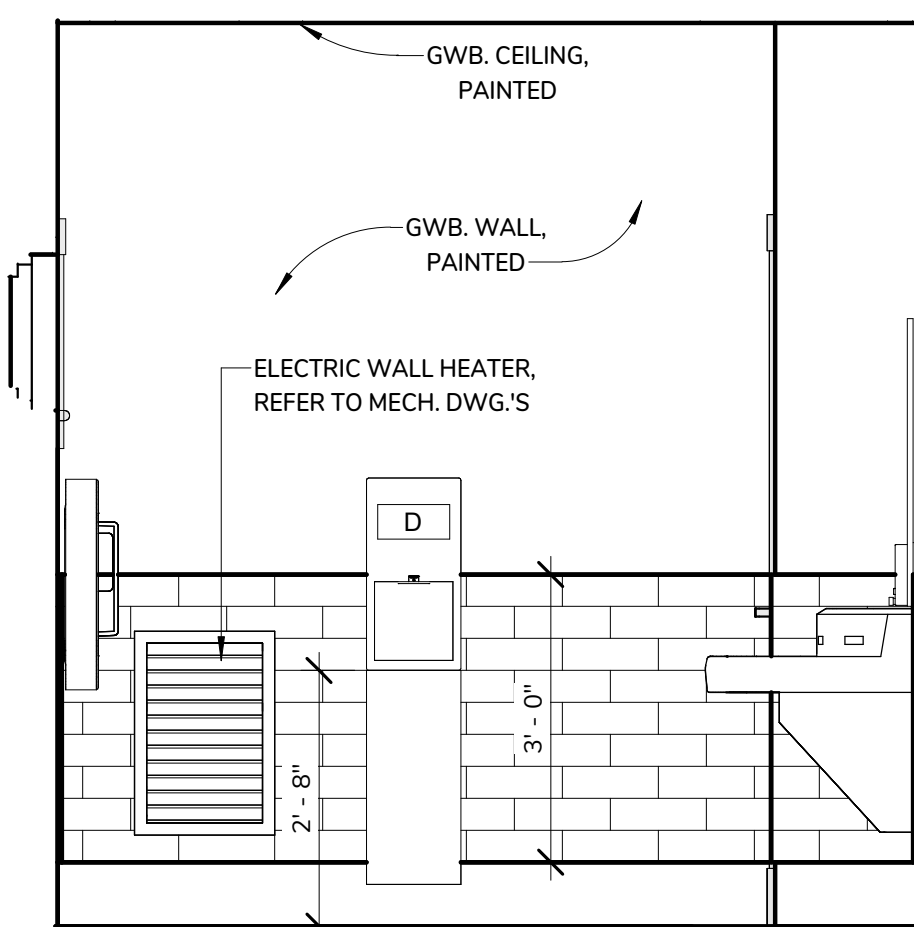
**A1** PUBLIC MEN'S RESTROOM - A  
1/2" = 1'-0"



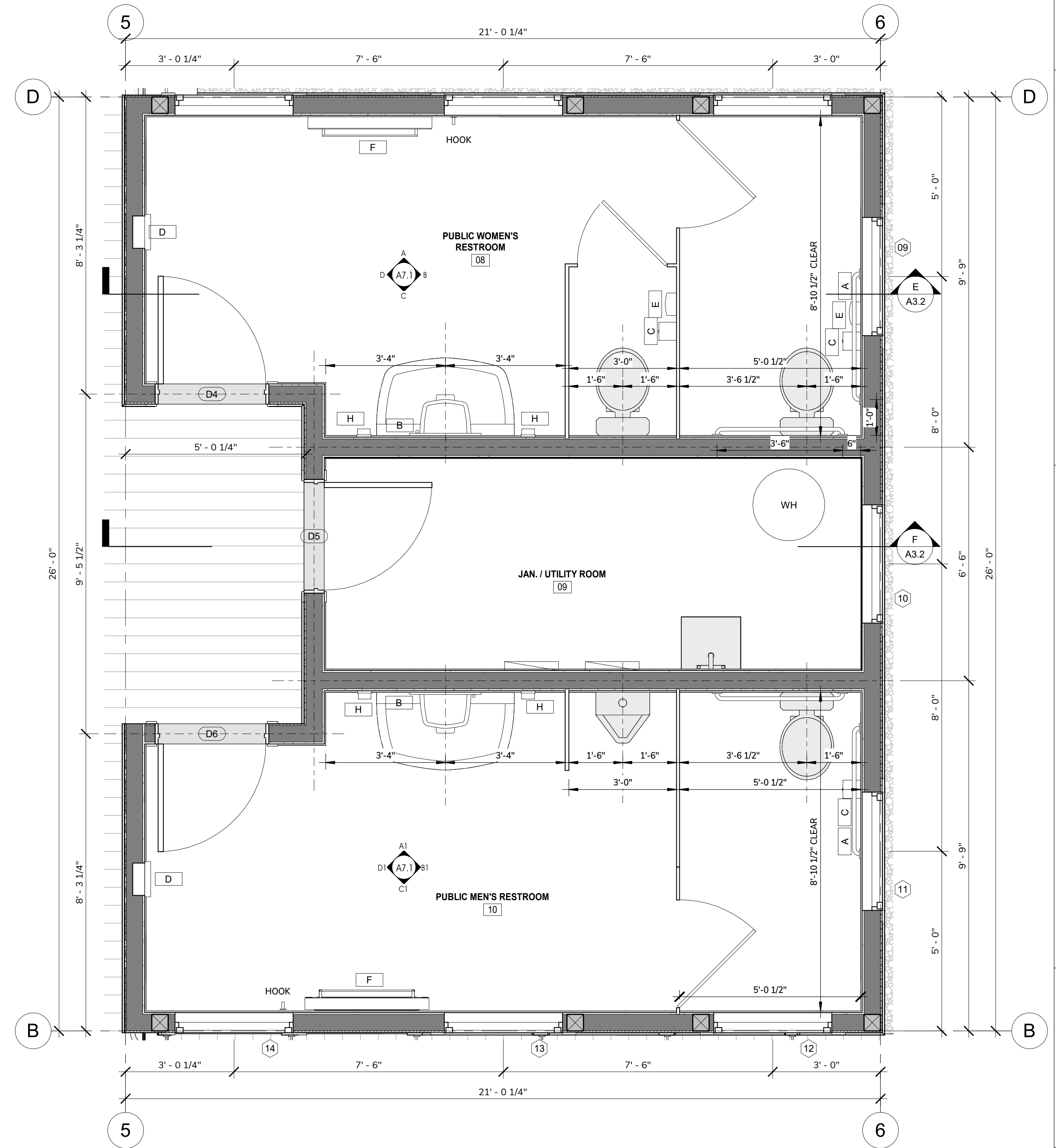
**B1** PUBLIC MEN'S RESTROOM - B  
1/2" = 1'-0"



**C1** PUBLIC MEN'S RESTROOM - C  
1/2" = 1'-0"



**D1** PUBLIC MEN'S RESTROOM - D  
1/2" = 1'-0"



**1** HARBORMASTER OFFICE - RESTROOMS FLOOR PLAN  
1/2" = 1'-0"

Mark	Description
A	42" L. x 1 1/4" DIAM. GRAB BAR W/ SNAP FLANGE
A1	54" L. x 1 1/4" DIAM. GRAB BAR W/ SNAP FLANGE
A2	30" L. x 1 1/4" DIAM. GRAB BAR W/ SNAP FLANGE
B	GLASS MIRROR W/ STAINLESS STEEL FRAME
C	SURFACE MOUNTED TOILET TISSUE DISPENSER
D	RECESSED HAND DRYER WITH INTEGRAL WALL GUARD BELOW
E	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
F	KB310-SSWW Baby Changing Station
G	DOUBLE COAT HOOK
H	SURFACE MOUNTED SOAP DISPENSER
J	24" TOWEL BAR
K	SURFACE MOUNTED PAPER TOWEL DISPENSER

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**TOWN OF DENNIS**

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TITLE:  
**HARBORMASTER OFFICE - INTERIOR ELEVATIONS**

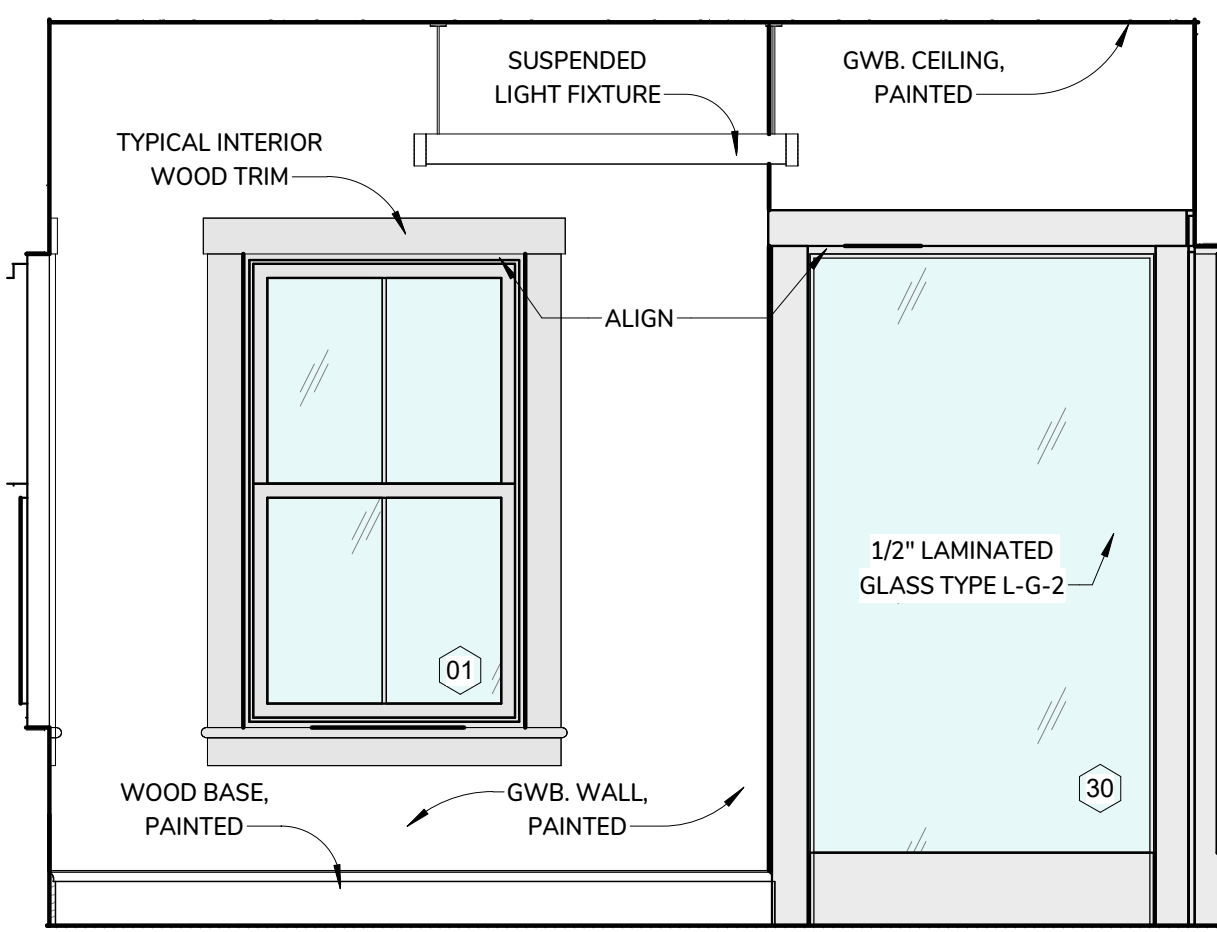
DATE ISSUED: 08 . 01 . 2025

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No. Description Date

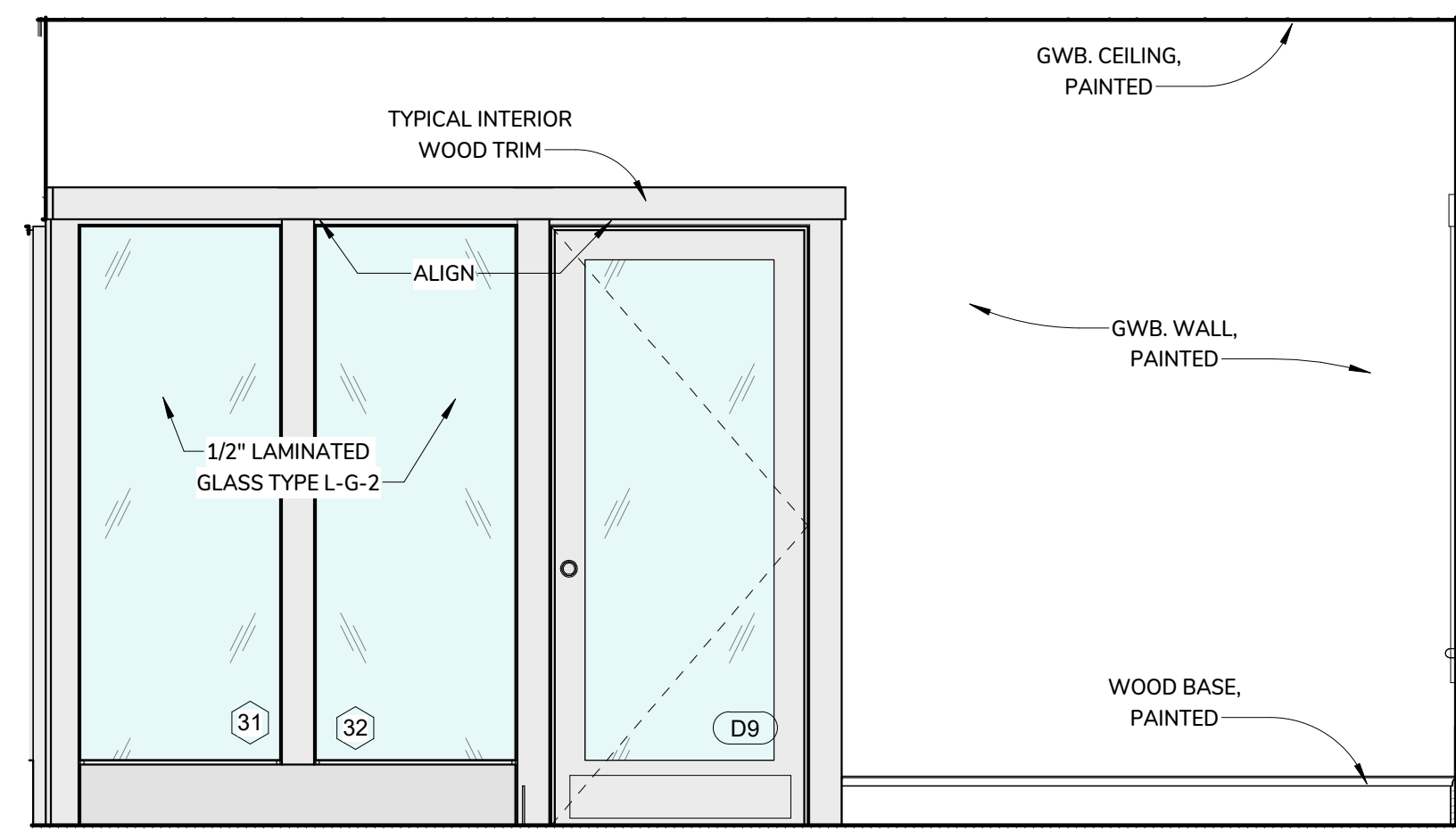
DRAWING NO.:

**A7.2**

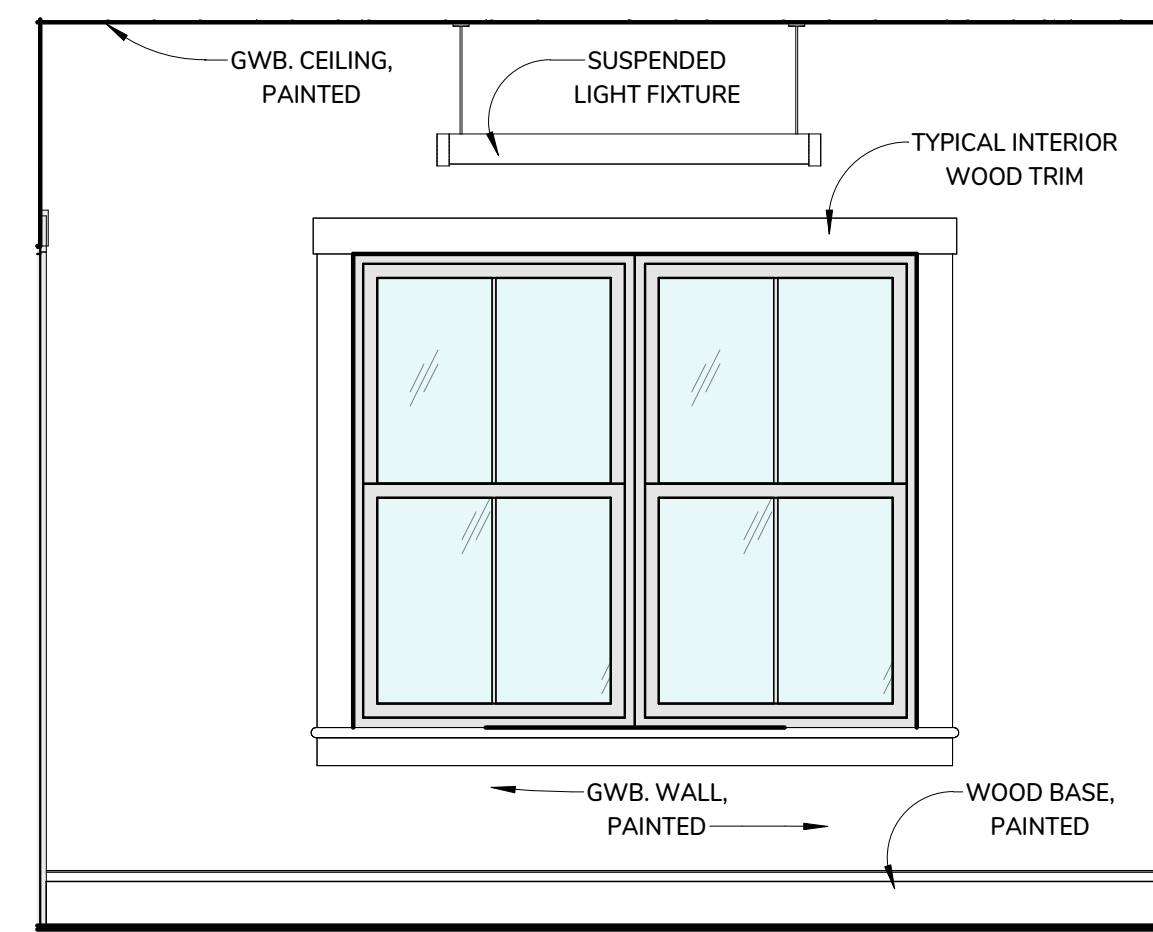
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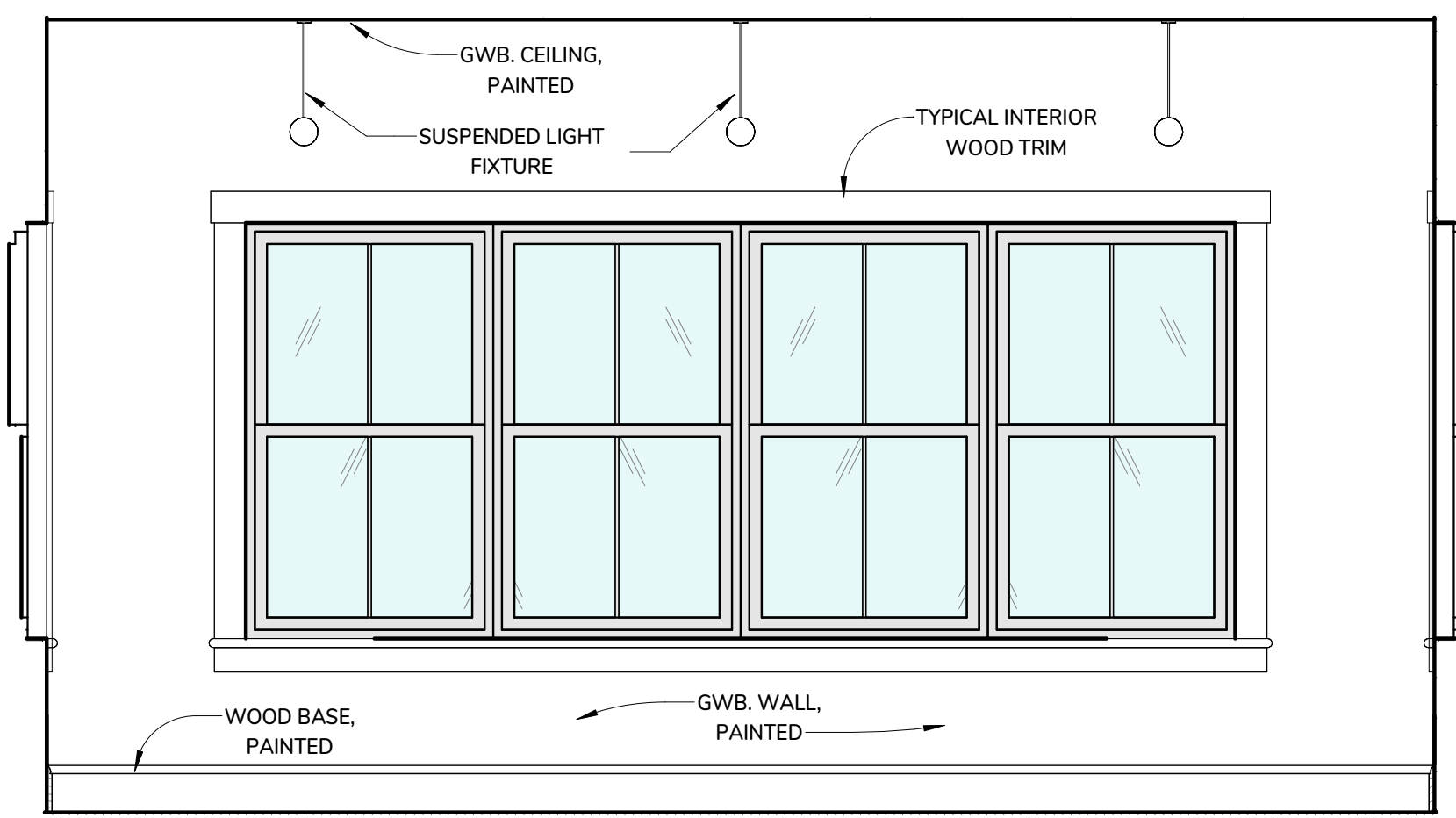
13 HARBORMASTER OFFICE - A  
1/2" = 1'-0"



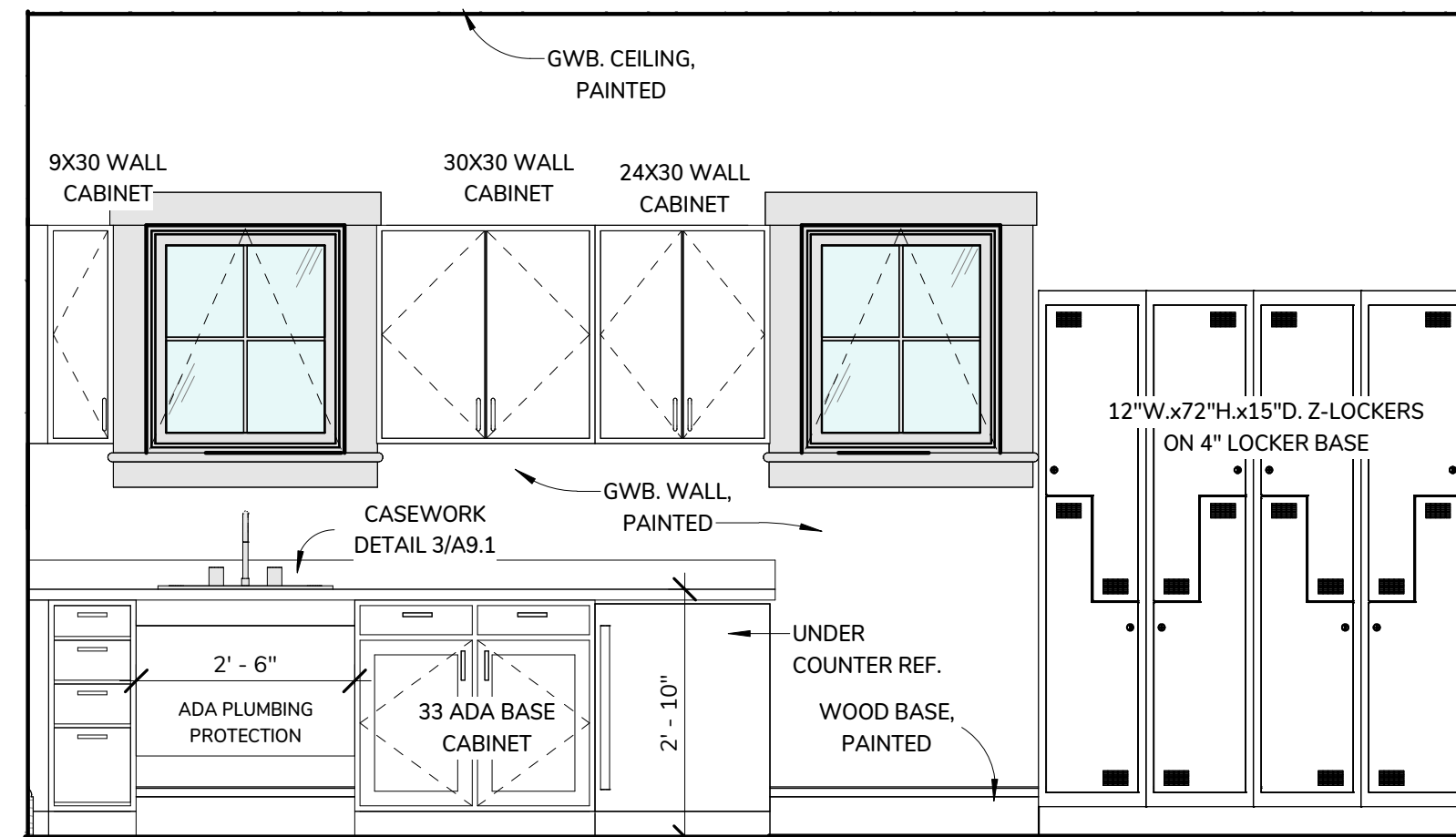
14 HARBORMASTER OFFICE - B  
1/2" = 1'-0"



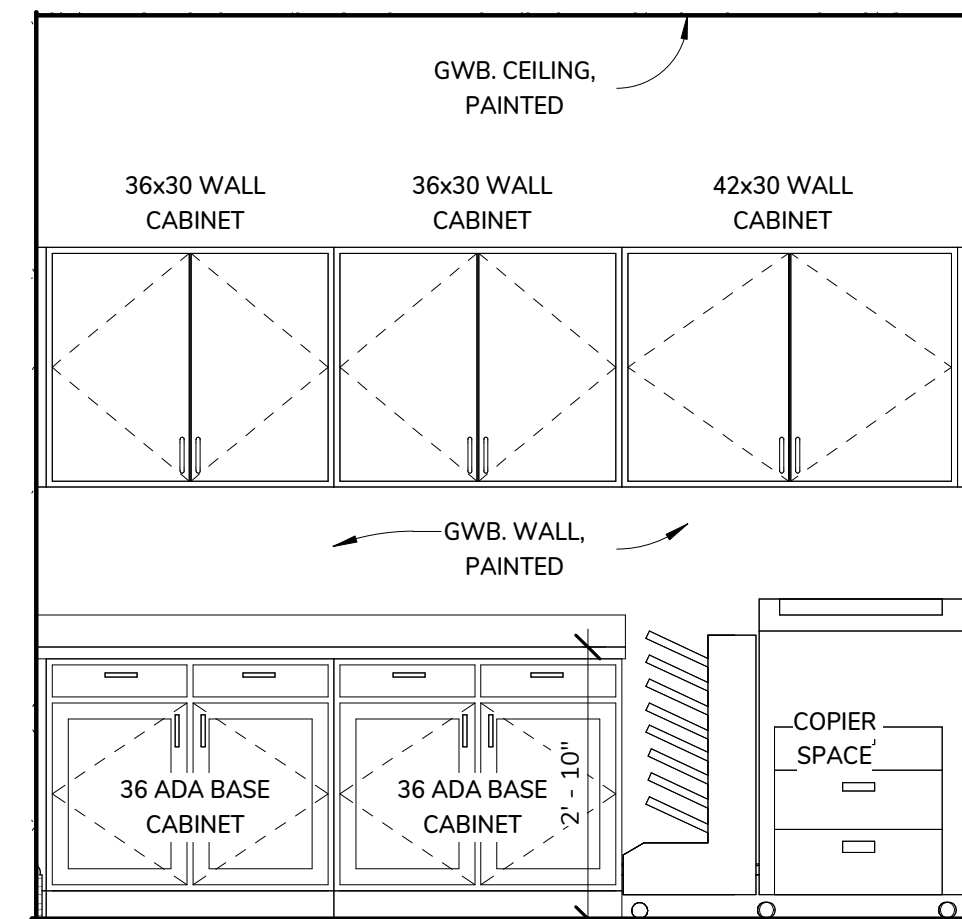
15 HARBORMASTER OFFICE - C  
1/2" = 1'-0"



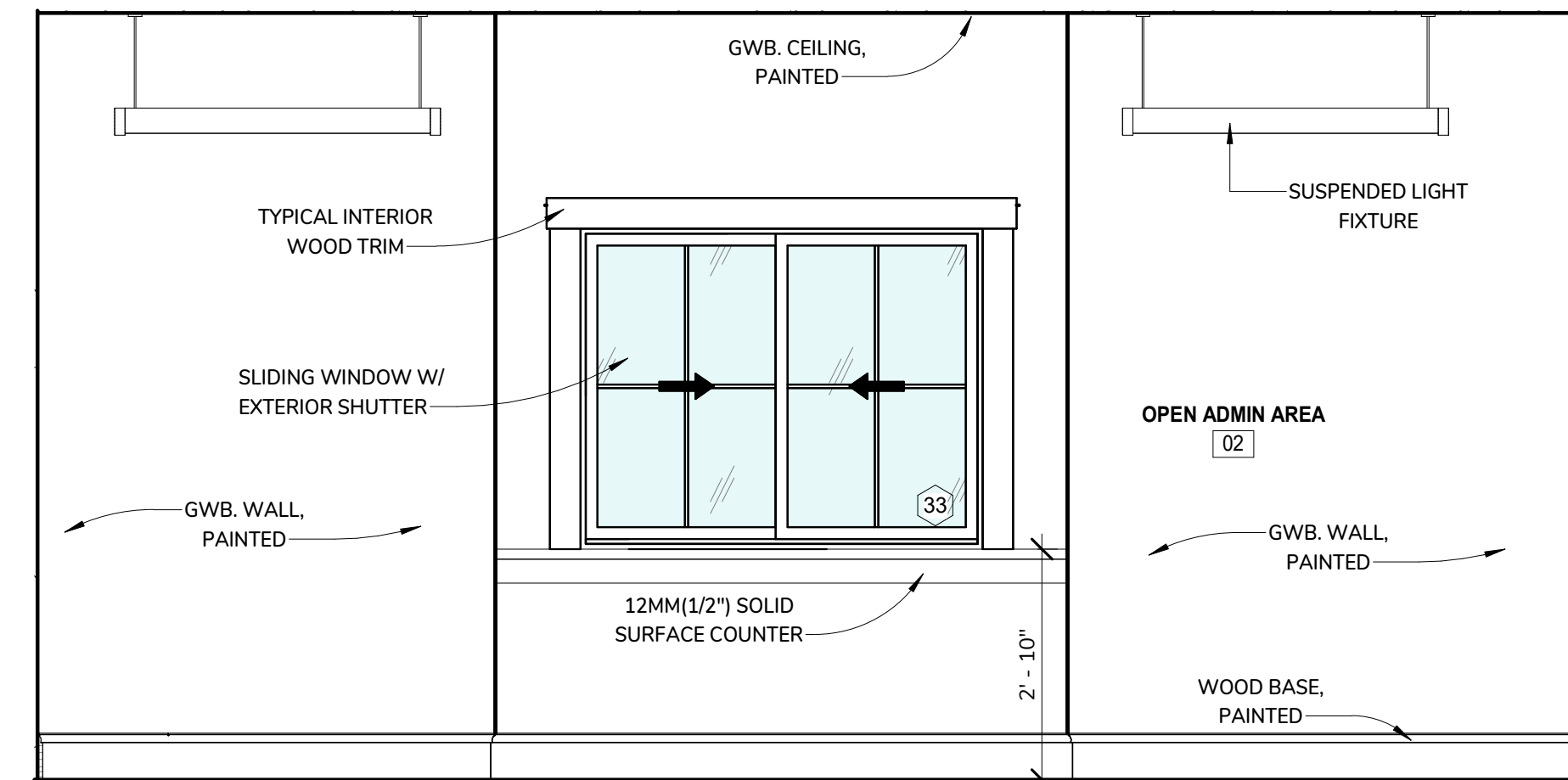
16 HARBORMASTER OFFICE - D  
1/2" = 1'-0"



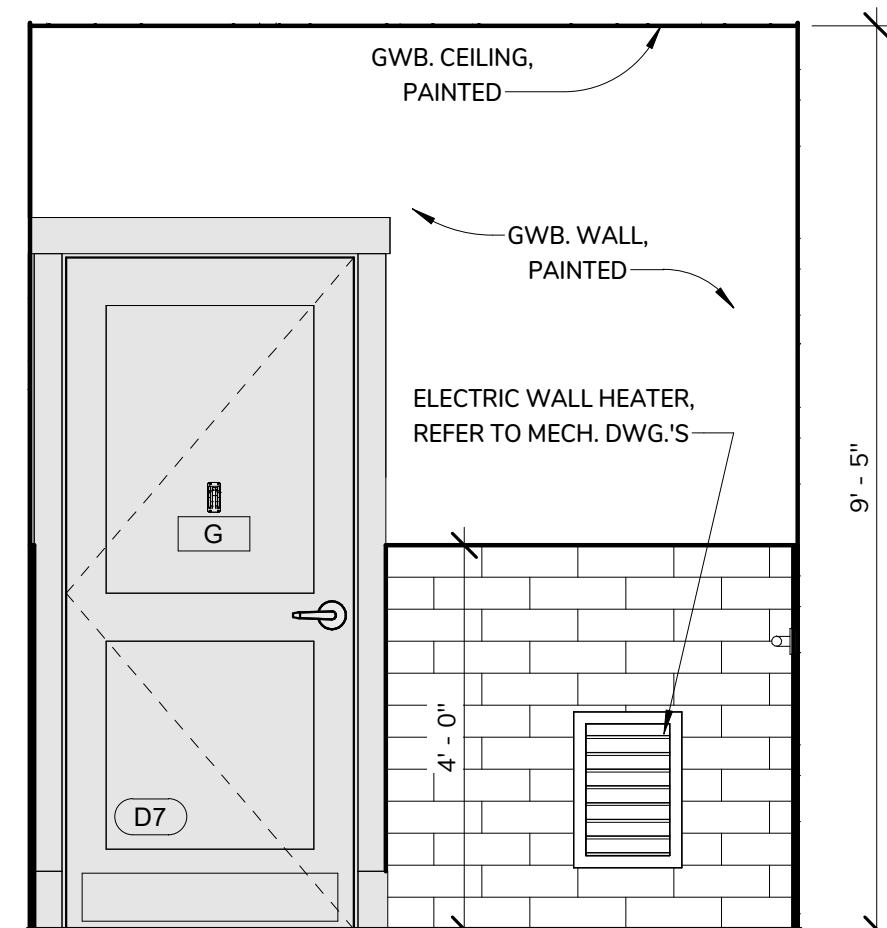
10 BREAK / LOCKER AREA  
1/2" = 1'-0"



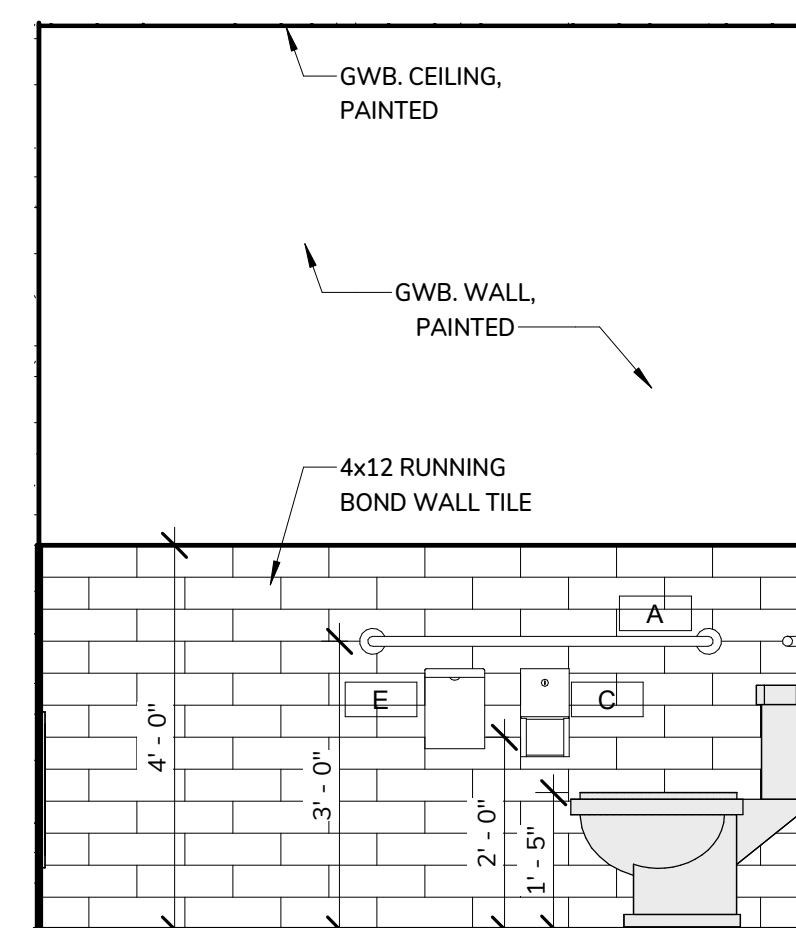
11 COPY / WORK AREA  
1/2" = 1'-0"



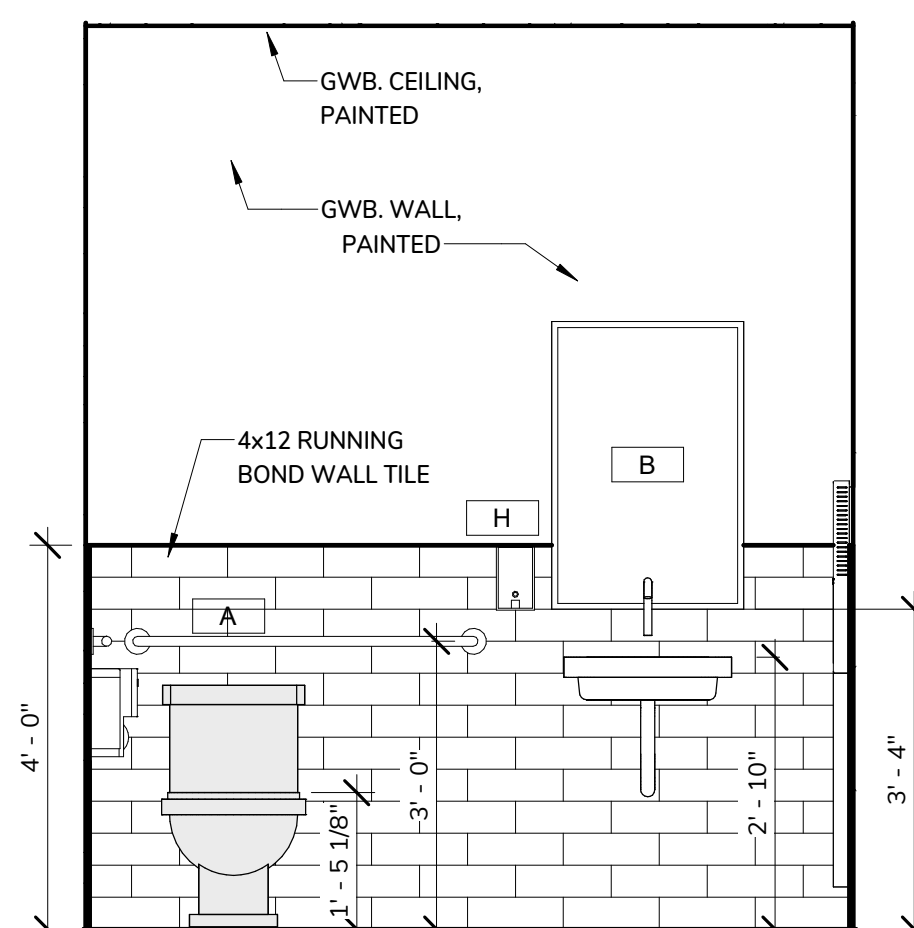
12 OPEN ADMIN AREA  
1/2" = 1'-0"



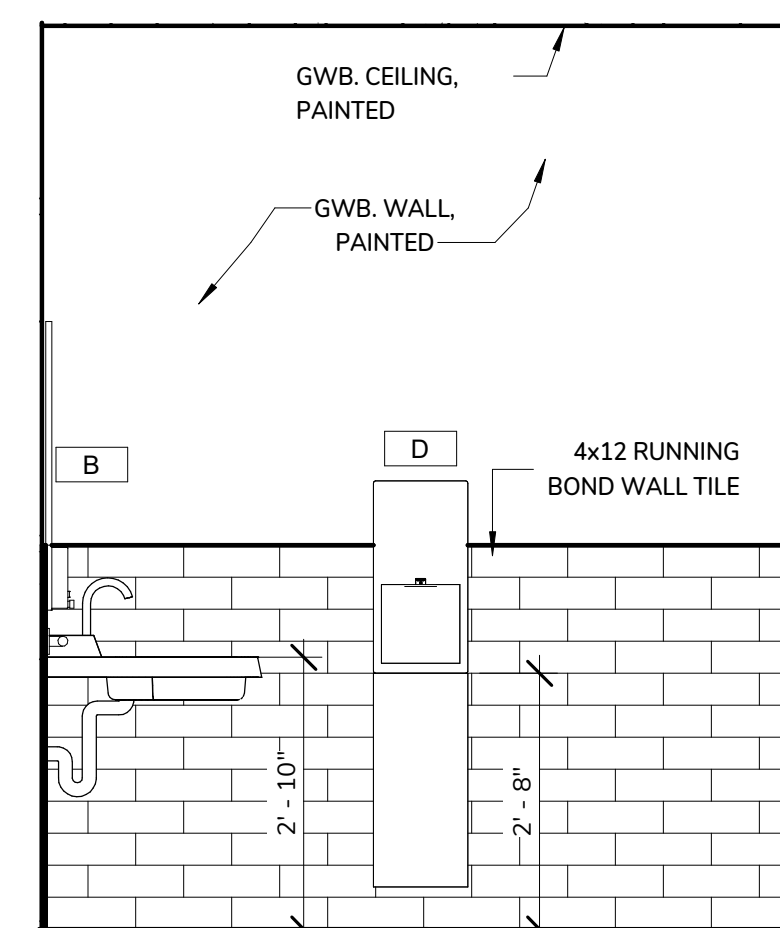
2 STAFF RESTROOM - A  
1/2" = 1'-0"



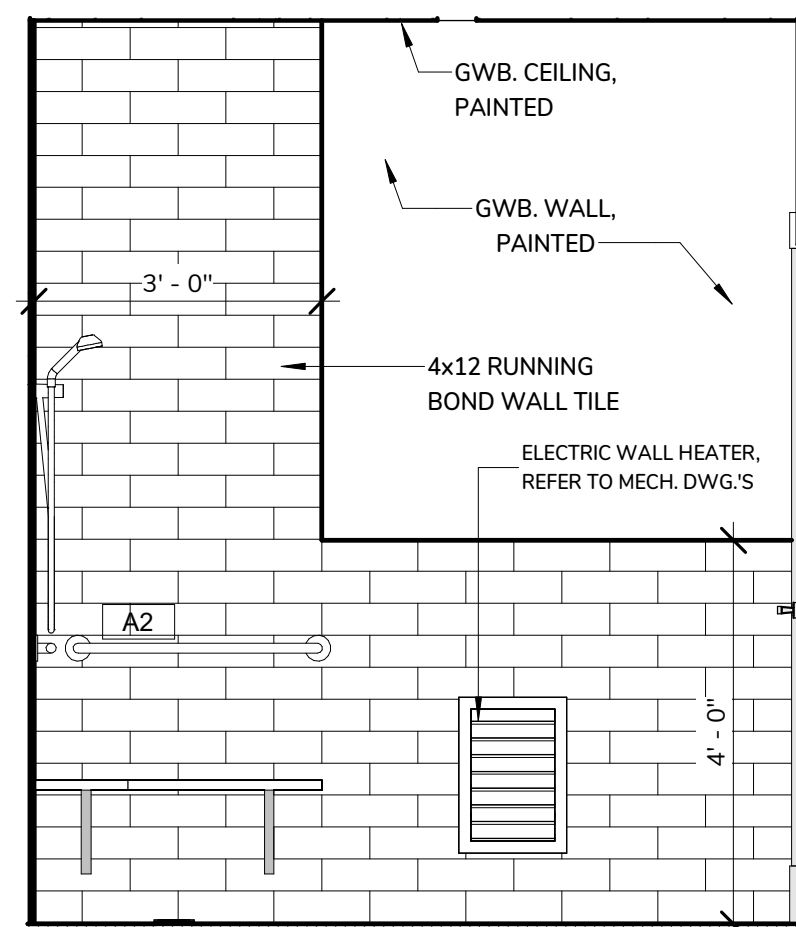
3 STAFF RESTROOM - B  
1/2" = 1'-0"



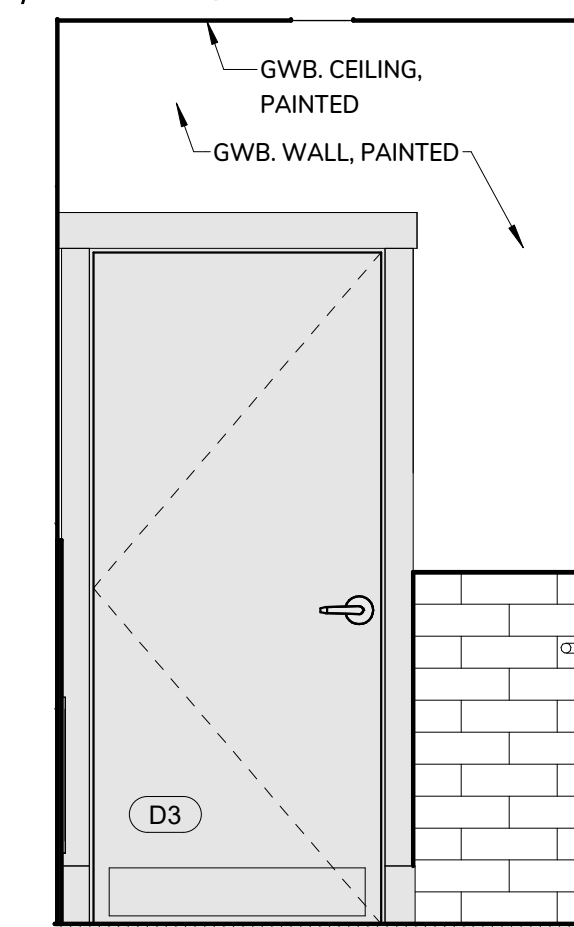
4 STAFF RESTROOM - C  
1/2" = 1'-0"



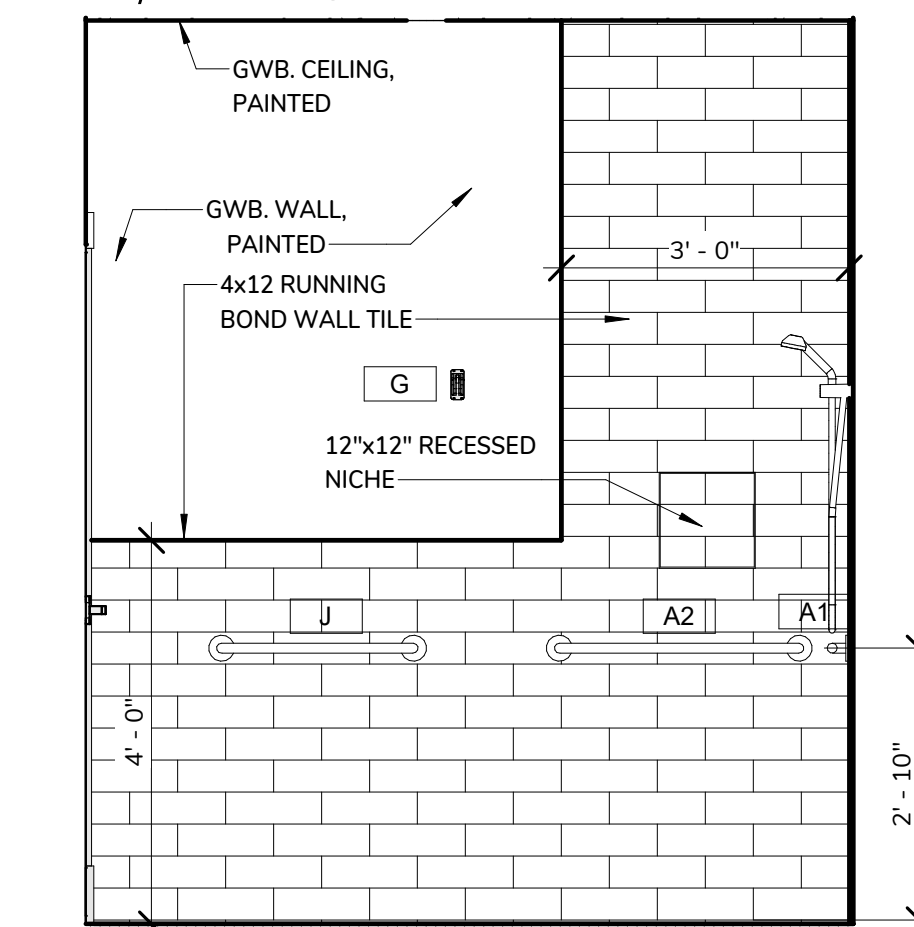
5 STAFF RESTROOM - D  
1/2" = 1'-0"



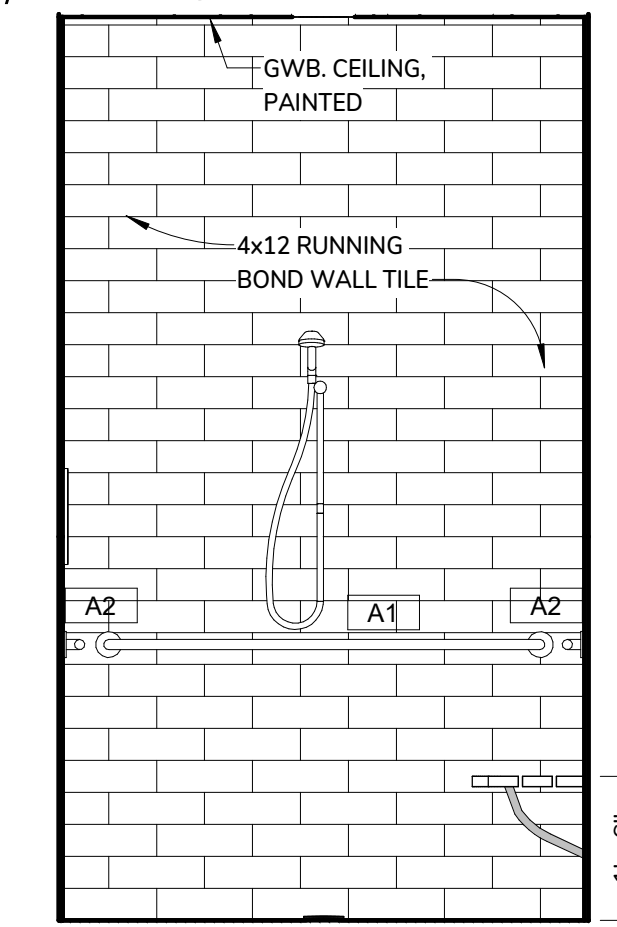
6 TRANSIENT SHOWER - A  
1/2" = 1'-0"



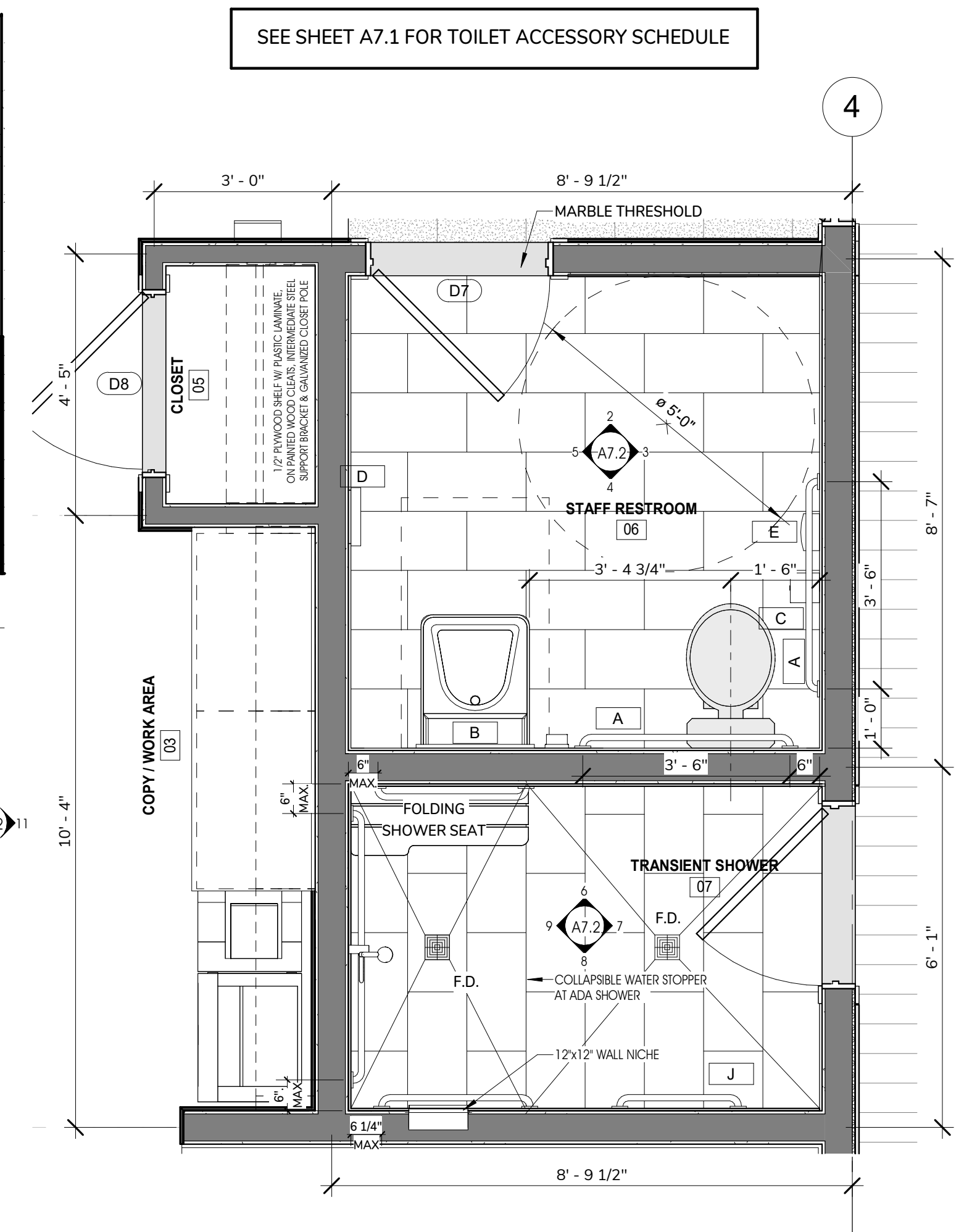
7 TRANSIENT SHOWER - B  
1/2" = 1'-0"



8 TRANSIENT SHOWER - C  
1/2" = 1'-0"



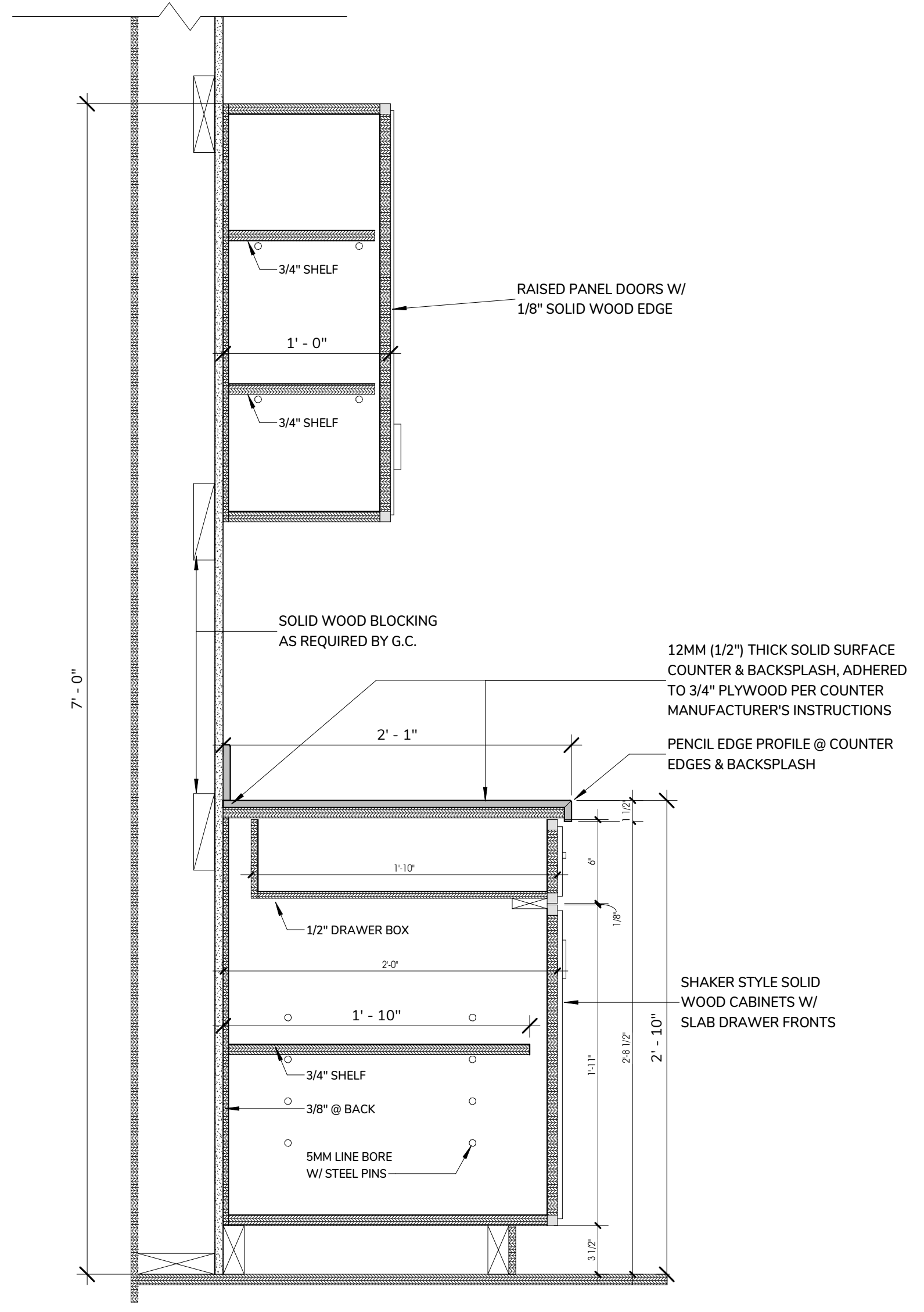
9 TRANSIENT SHOWER - D  
1/2" = 1'-0"



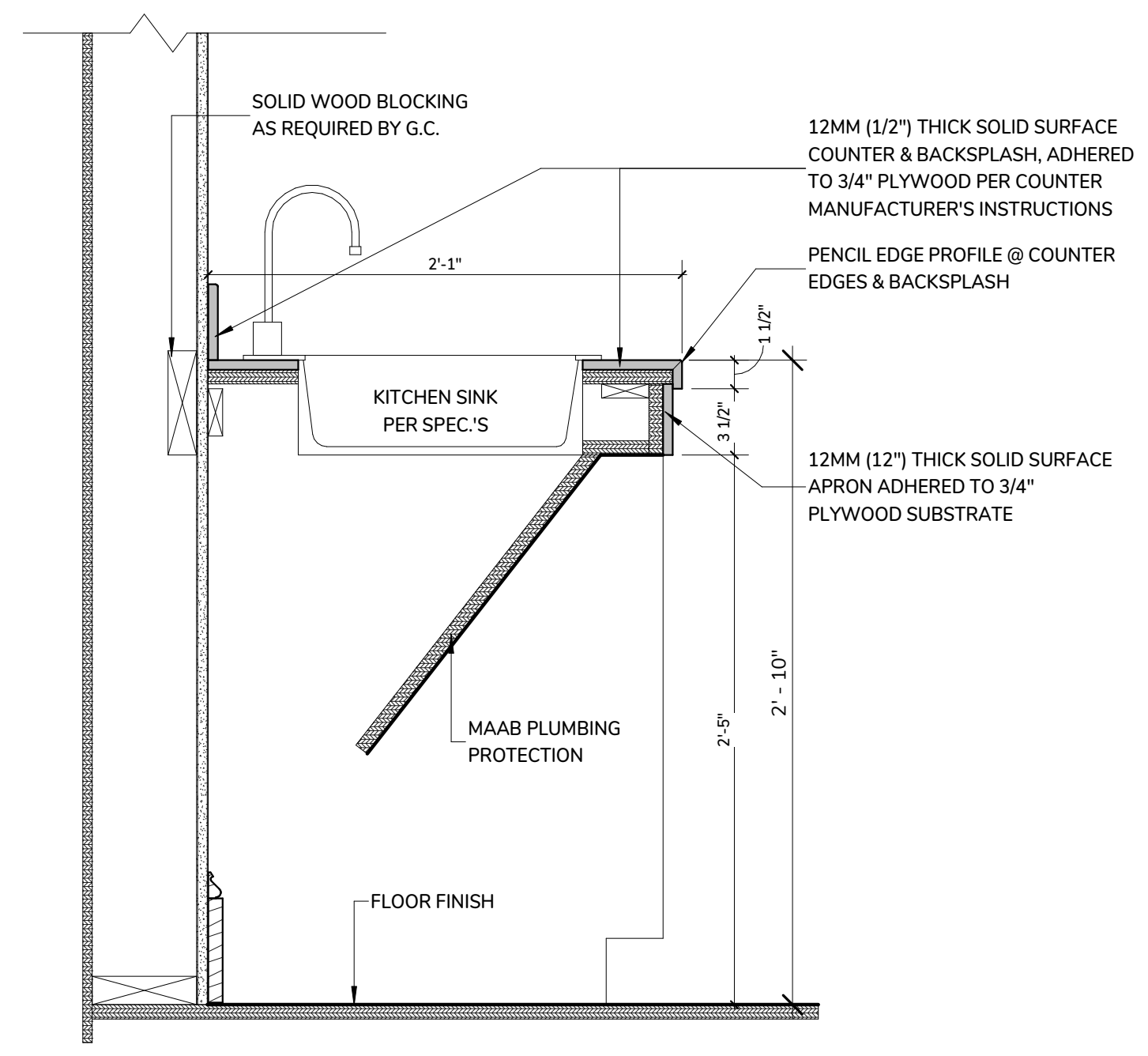
1 HARBORMASTER OFFICE - STAFF RESTROOM / SHOWER FLOOR PLAN  
1/2" = 1'-0"

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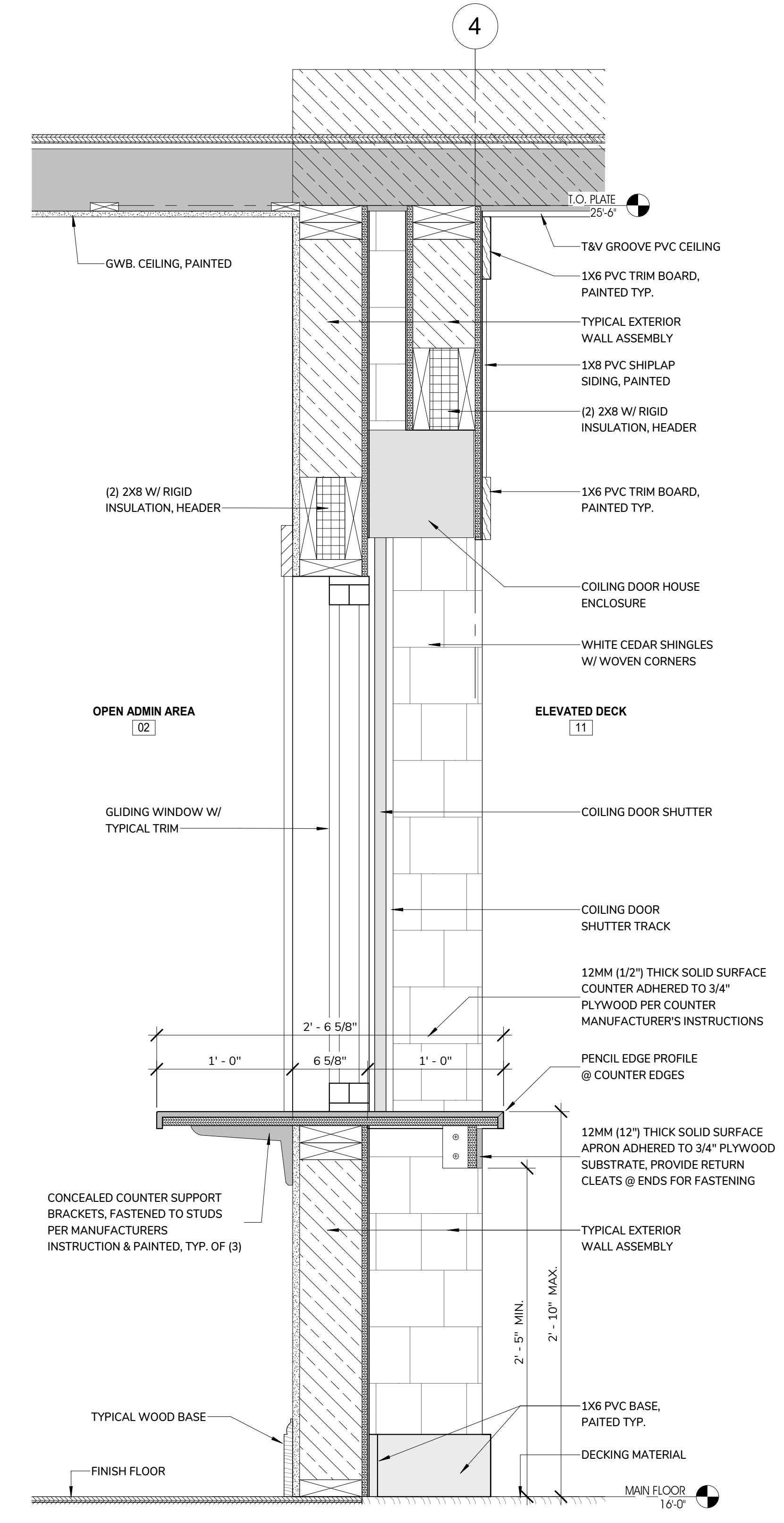
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① CASEWORK DETAIL  
 1 1/2" = 1'-0"



② CASEWORK DETAIL @ SINK  
 1 1/2" = 1'-0"



③ HARBORMASTER - SERVICE COUNTER WINDOW SECTION  
 1 1/2" = 1'-0"

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 DENNIS, MA 02660

TITLE:  
**HARBORMASTER**  
**OFFICE -**  
**CASEWORK**  
**DETAIL**

DATE ISSUED: 08 . 01 . 2025

REVISIONS:

No.	Description	Date

DRAWING NO.:

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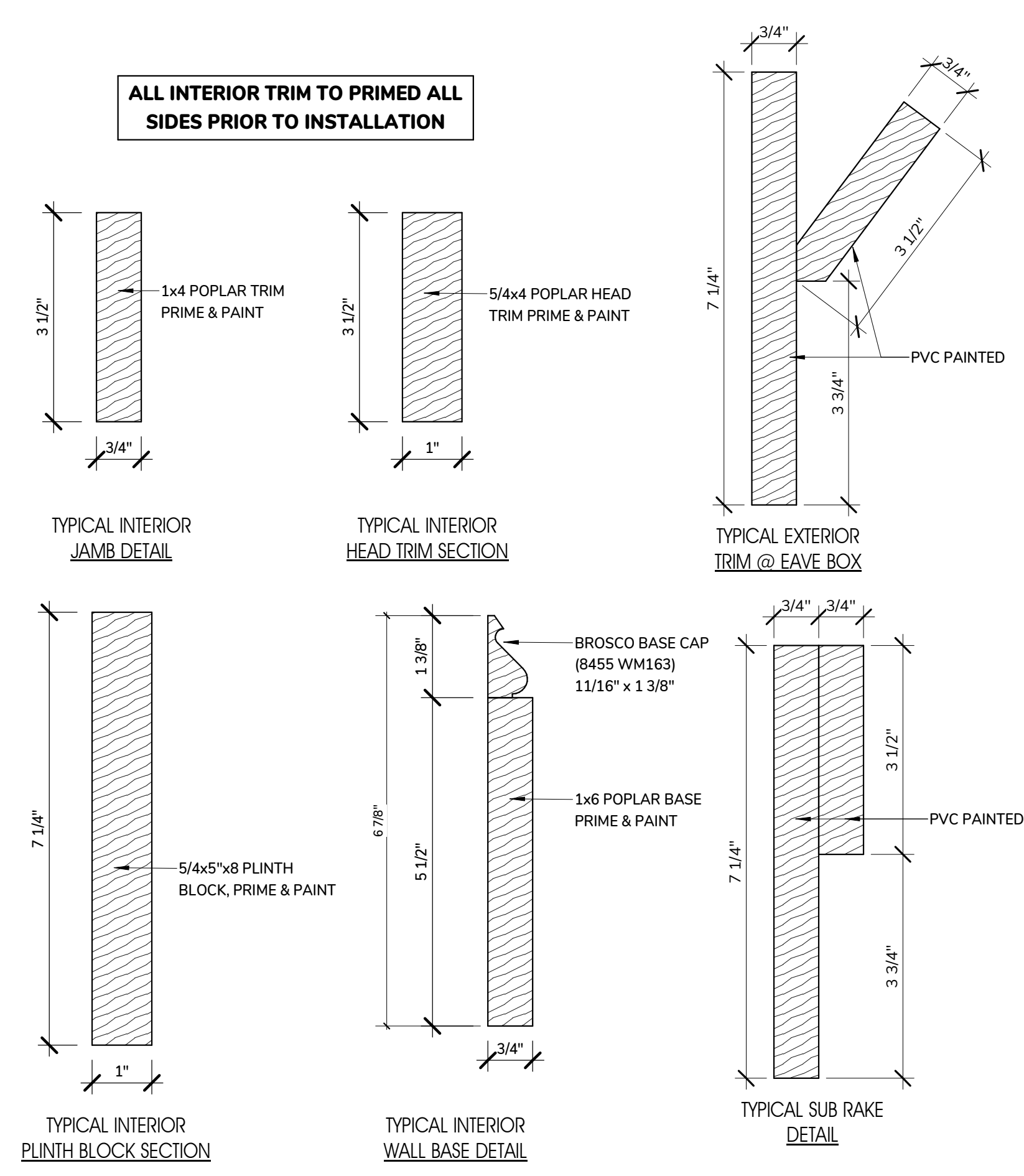
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### Harbormaster Office Room Finish Schedule

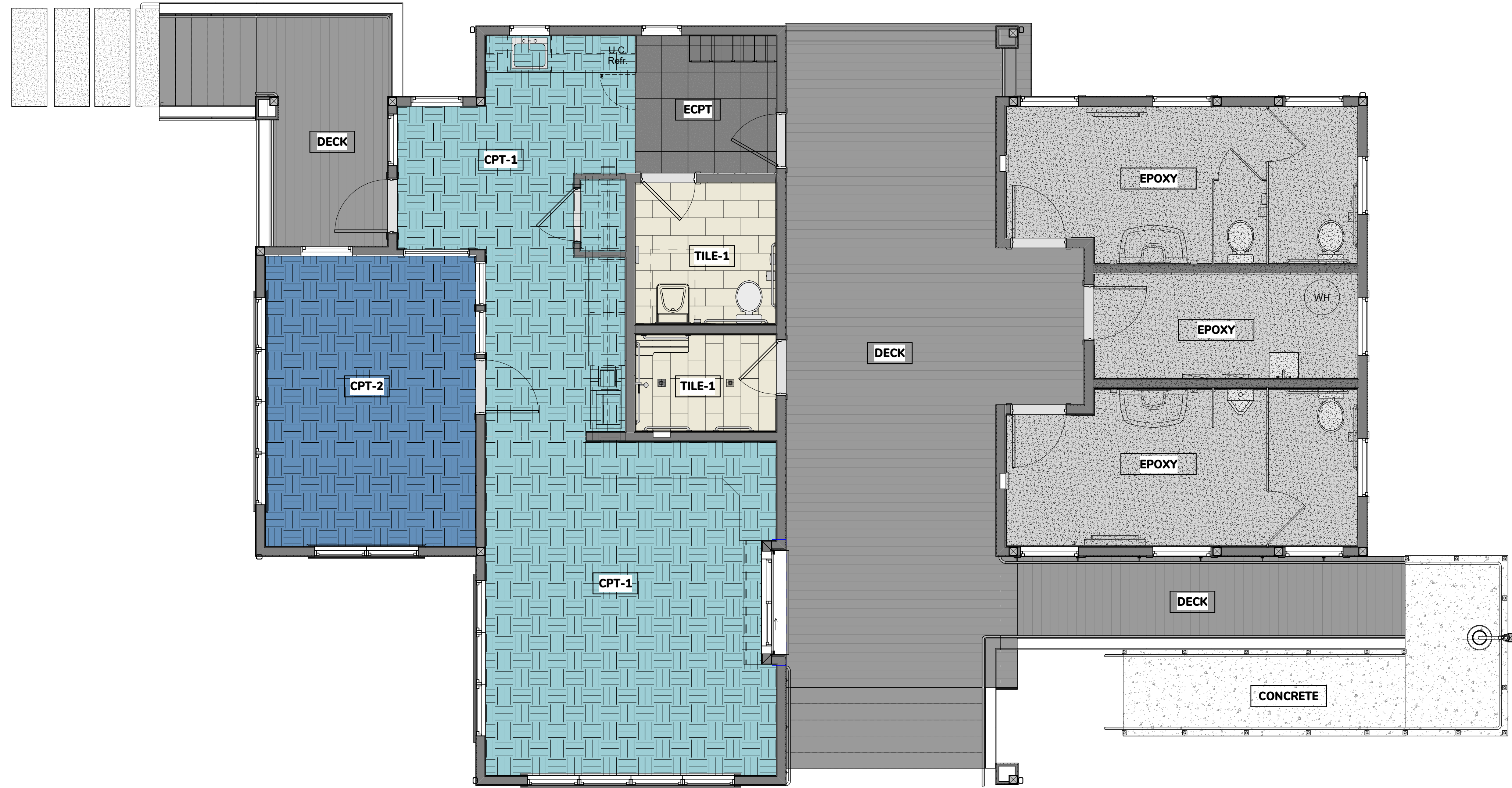
No.	Name	Floor Finish	Base	Walls		Ceiling		Comments
				Material	Finish	Material	Finish	
HARBORMASTER								
01	HARBORMASTER OFFICE	CPT2	WOOD	Gypsum Wall Board	PAINTED	Gypsum Wall Board	PAINTED	
02	OPEN ADMIN AREA	CPT1	WOOD	Gypsum Wall Board	PAINTED	Gypsum Wall Board	PAINTED	
03	COPY / WORK AREA	CPT1	WOOD	Gypsum Wall Board	PAINTED	Gypsum Wall Board	PAINTED	
04	BREAK / LOCKER AREA	ECPT / CPT1	WOOD	Gypsum Wall Board	PAINTED	Gypsum Wall Board	PAINTED	REFER TO FLOOR PLAN FOR FLOORING LOCATION
05	CLOSET	CPT1	WOOD	Gypsum Wall Board	PAINTED	Gypsum Wall Board	PAINTED	
06	STAFF RESTROOM	TILE-1	4'-0" WAINSCOT - TILE-2	TILE-2 / GWB. ABOVE	PAINTED	Gypsum Wall Board	PAINTED	
07	TRANSIENT SHOWER	TILE-1	4'-0" WAINSCOT - TILE-2	TILE-2 / GWB. ABOVE	PAINTED	Gypsum Wall Board	PAINTED	
08	PUBLIC WOMEN'S RESTROOM	EPOXY	8" EPOXY	TILE-2 / GWB. ABOVE	PAINTED	Gypsum Wall Board	PAINTED	
09	JAN. / UTILITY ROOM	EPOXY	8" EPOXY	Gypsum Wall Board	PAINTED	Gypsum Wall Board	PAINTED	
10	PUBLIC MEN'S RESTROOM	EPOXY	8" EPOXY	TILE-2 / GWB. ABOVE	PAINTED	Gypsum Wall Board	PAINTED	
11	ELEVATED DECK	5/4x6 DECKING BOARDS	1X6 PVC BASE, PAINTED	EXTERIOR WALL	EXTERIOR WALL SIDING	1x6 T&V GROOVE BOARDS	PAINTED	

FLOORS			
ECPT	19.68"x19.68" ENTRANCE CARPET TILE	MATS INC. - SUPER NOP 52	COLOR - GREY
CPT-1	24"x24" CARPET TILE	J+J INDUSTRIES - KINETEX, STYLE #1814 VELOCITY	COLOR: POSITION 1603
CPT-2	CARPET TILE	SHAW CONTRACT - CARPET TILE, STYLE #5T172 SEA TILE	COLOR: ADVENTURE 72481
TILE - 1	12"x24" PORCELAIN FLOOR TILE	----	----
EPOXY	8" EPOXY	----	----

WALLS			
TILE - 2	CERAMIC WALL TILE	---	----
P - 1	WALL PAINT	BM OR SW LATEX	GENERAL WALL COLOR - T.B.D.
P - 2	WALL PAINT	BM OR SW LATEX	ACCENT WALL COLOR - T.B.D.
P - 3	WALL PAINT	BM OR SW LATEX	ACCENT WALL COLOR - T.B.D.



1 TYPICAL MILL WORK DETAIL  
6" = 1'-0"



2 HARBORMASTER OFFICE - MAIN FLOOR FINISH PLAN  
1/4" = 1'-0"

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DENNIS, MA 02660

TITLE:  
**ROOM FINISH SCHEDULE & CASEWORK DETAILS**

DATE ISSUED: 08 . 01 . 2025

REVISIONS:  
No. Description Date

DRAWING NO.:  
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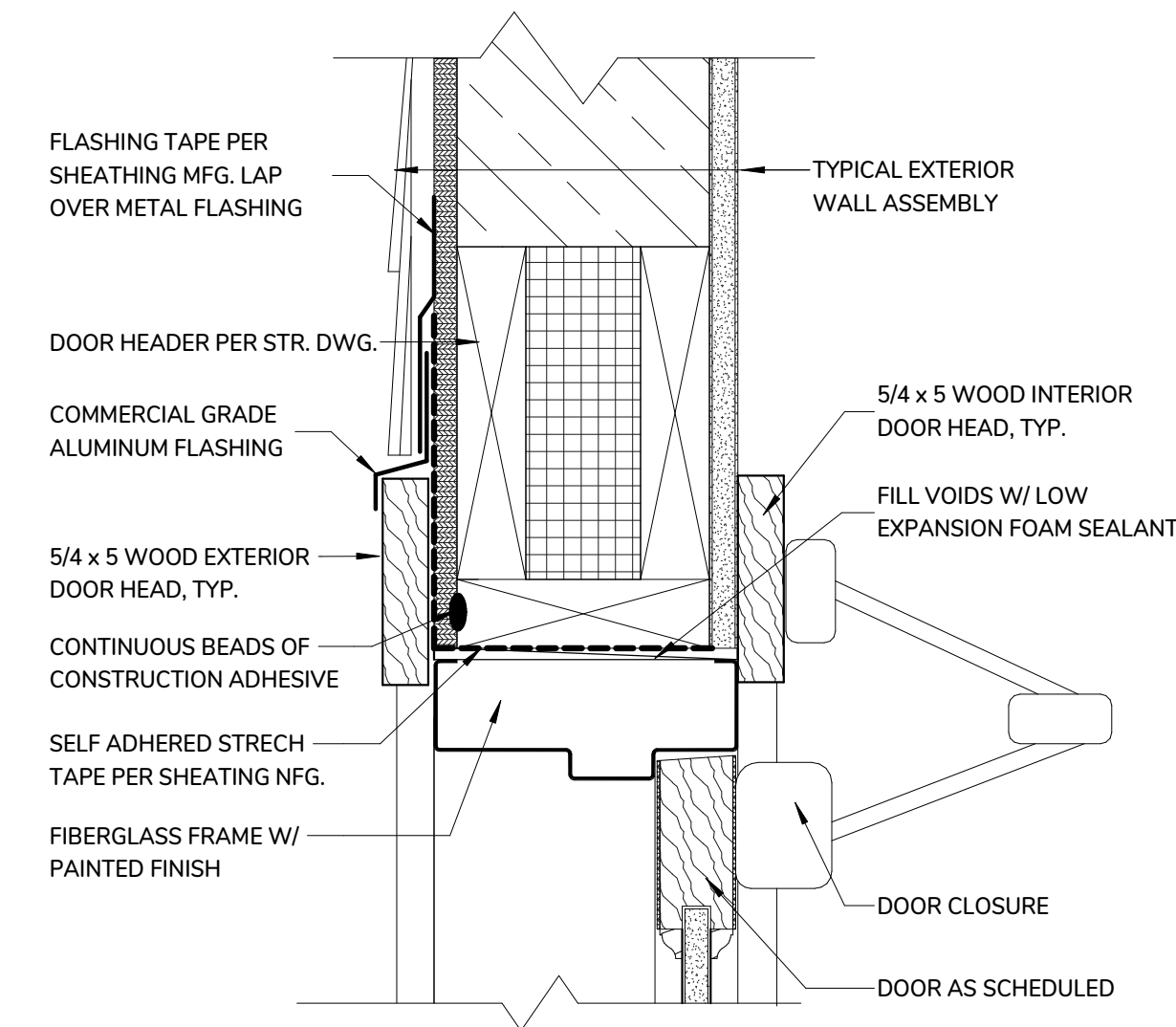
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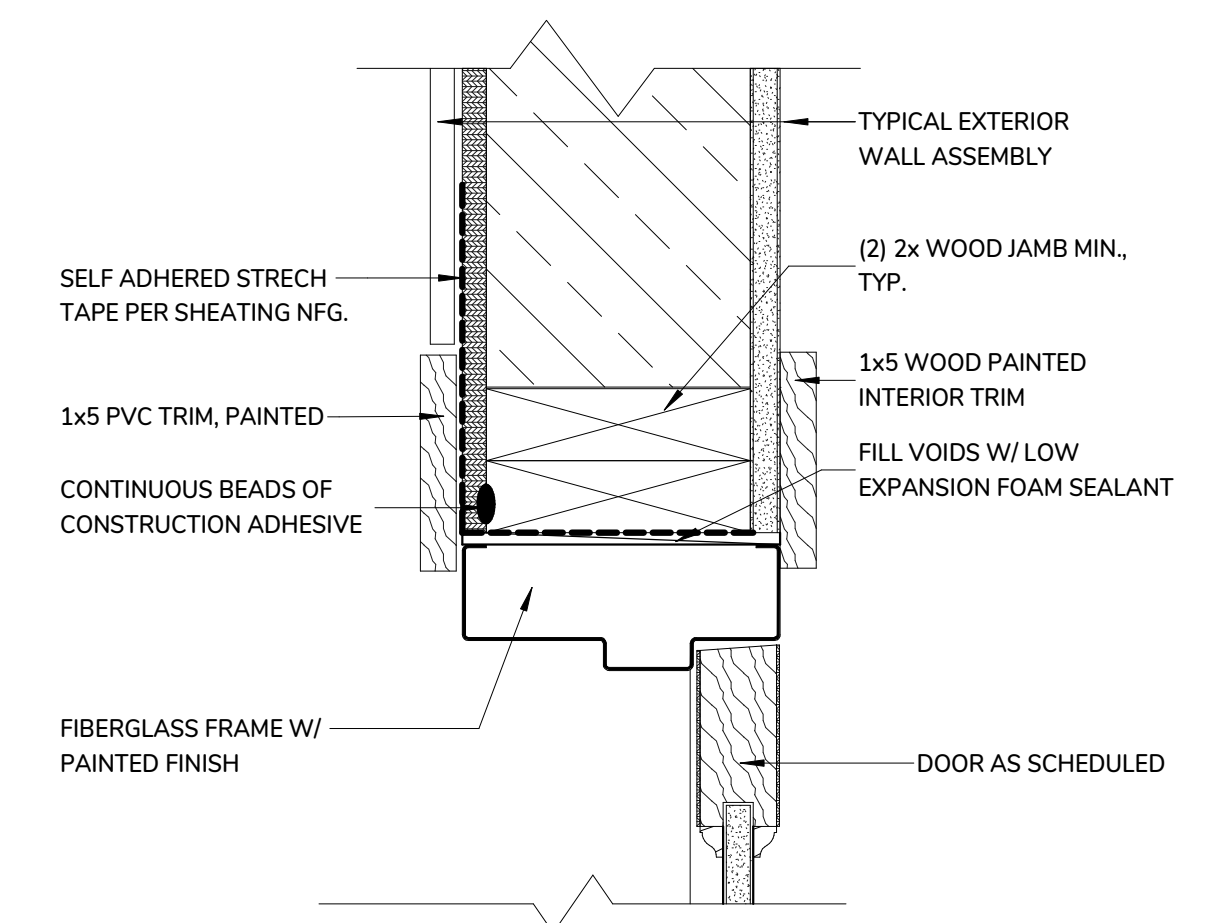
### Harbormaster Office Door Schedule

Mark	Manufacturer	Material	Model	Type	Dimensions			slab type	Frame Material	Head Detail	Jamb Detail	Sill Detail	Hardware Set	Comments
					Width	Height	Thick							
HARBORMASTER														
D1	THERMATRU SMOOTH-STAR	FIBERGLASS	S140	TYPE "A"	3'-0"	7'-0"	1 3/4"	FULL LIGHT	WOOD / COMPOSITE	1 / A9.2	2 / A9.2	3 / A9.2	HW-01	HURRICANE RATED DOOR
D2	EDGEWATER	FIBERGLASS REINFORCED PANELS	EH SERIES	TYPE "B"	3'-0"	7'-0"	1 3/4"	FLUSH DOOR	FIBERGLASS	1 / A9.2	2 / A9.2	3 / A9.2	HW-01	EH SERIES ( HURRICANE - RATED )
D3	EDGEWATER	FIBERGLASS REINFORCED PANELS	EH SERIES	TYPE "B"	3'-0"	7'-0"	1 3/4"	FLUSH DOOR	FIBERGLASS	1 / A9.2	2 / A9.2	3 / A9.2	HW-05	EH SERIES ( HURRICANE - RATED )
D4	EDGEWATER	FIBERGLASS REINFORCED PANELS	EH SERIES	TYPE "C"	3'-0"	7'-0"	1 3/4"	FLUSH DOOR	FIBERGLASS	1 / A9.2	2 / A9.2	3 / A9.2	HW-06	EH SERIES ( HURRICANE - RATED ) - PROVIDE 12"x12" LOUVER
D5	EDGEWATER	FIBERGLASS REINFORCED PANELS	EH SERIES	TYPE "C"	3'-0"	7'-0"	1 3/4"	FLUSH DOOR	FIBERGLASS	1 / A9.2	2 / A9.2	3 / A9.2	HW-07	EH SERIES ( HURRICANE - RATED ) - PROVIDE 12"x12" LOUVER
D6	EDGEWATER	FIBERGLASS REINFORCED PANELS	EH SERIES	TYPE "C"	3'-0"	7'-0"	1 3/4"	FLUSH DOOR	FIBERGLASS	1 / A9.2	2 / A9.2	3 / A9.2	HW-06	EH SERIES ( HURRICANE - RATED ) - PROVIDE 12"x12" LOUVER
D7	TRUSTILE	MDF	TMF1000	TYPE "D"	3'-0"	7'-0"	1 3/4"	FLUSH DOOR	WOOD	4 / A9.2	5 / A9.2		HW-04	
D8	TRUSTILE	MDF	TMF1000	TYPE "D"	3'-0"	7'-0"	1 3/4"	FLUSH DOOR	WOOD	4 / A9.2	5 / A9.2		HW-02	
D9	TRUSTILE	MDF	FL100	TYPE "E"	3'-0"	7'-0"	1 3/4"	FULL LIGHT	WOOD	4 / A9.2	5 / A9.2		HW-03	

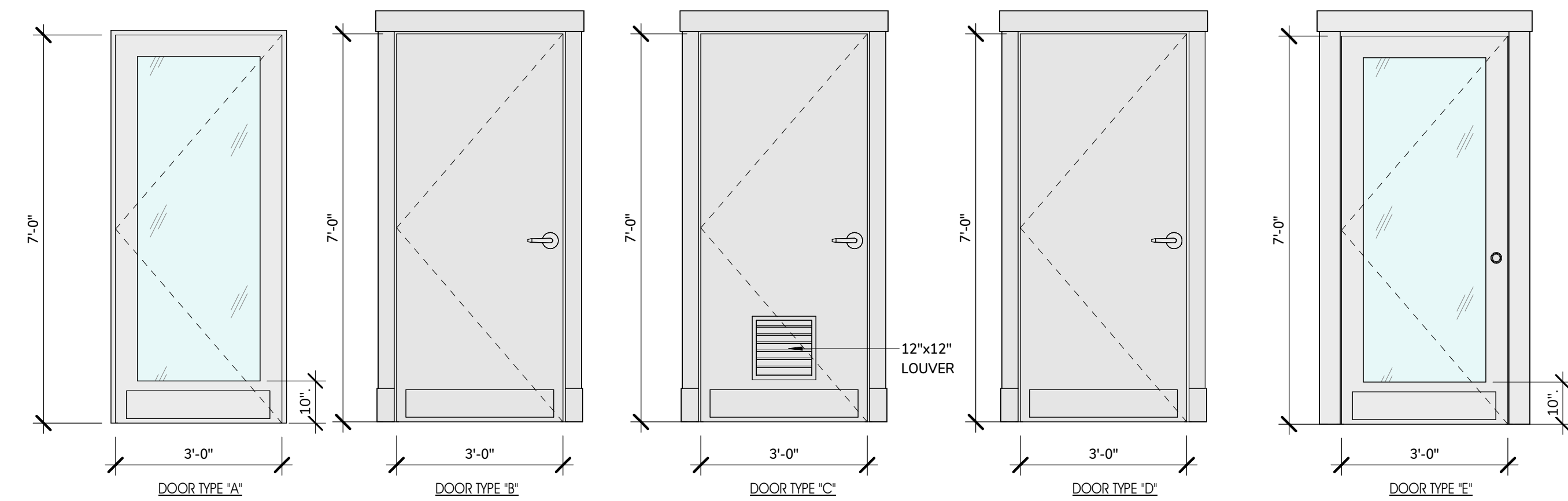
**DOOR & FRAME TO BE FACTORY PRIMED & FIELD PAINTED**



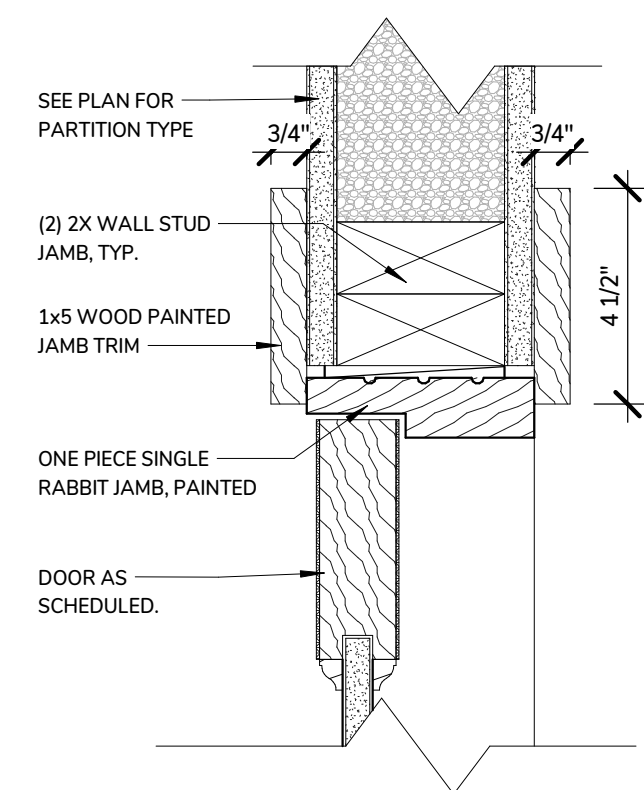
1 TYPICAL EXTERIOR DOOR HEAD DETAIL  
3" = 1'-0"



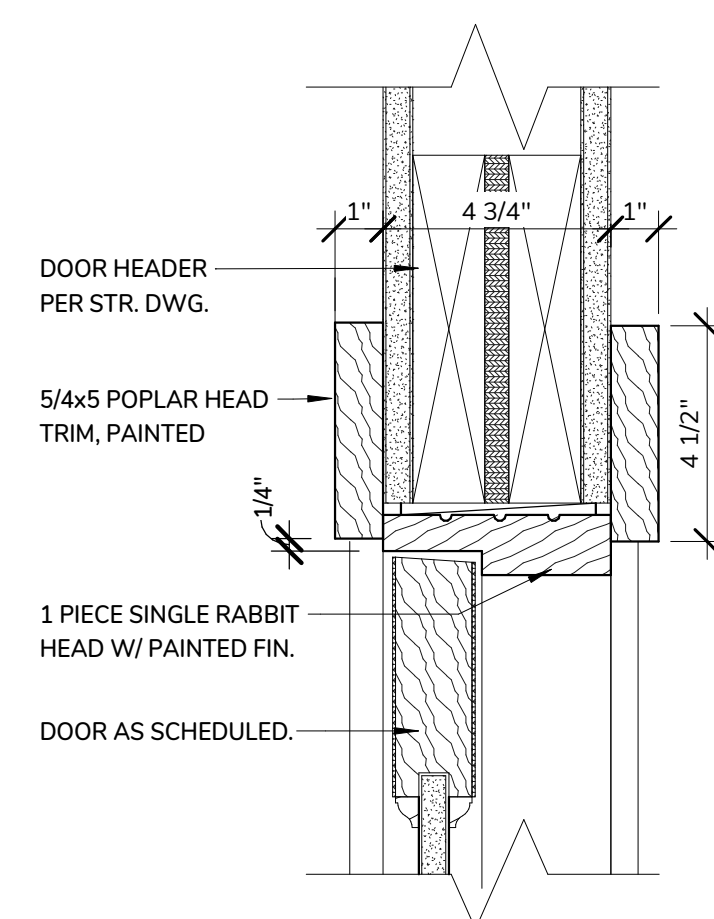
2 TYPICAL EXTERIOR DOOR JAMB DETAIL  
3" = 1'-0"



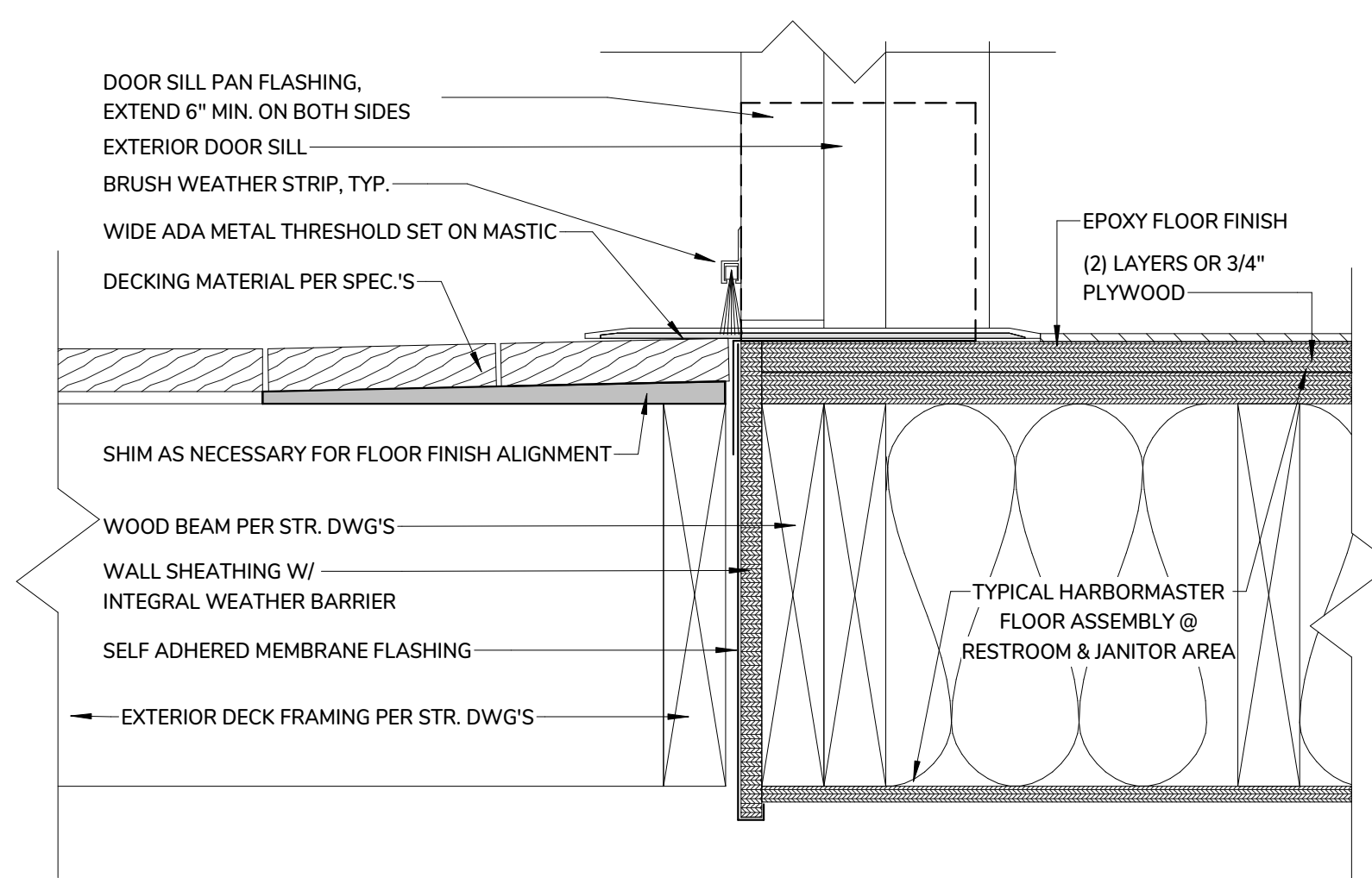
3 HARBORMASTER DOOR ELEVATIONS  
1/2" = 1'-0"



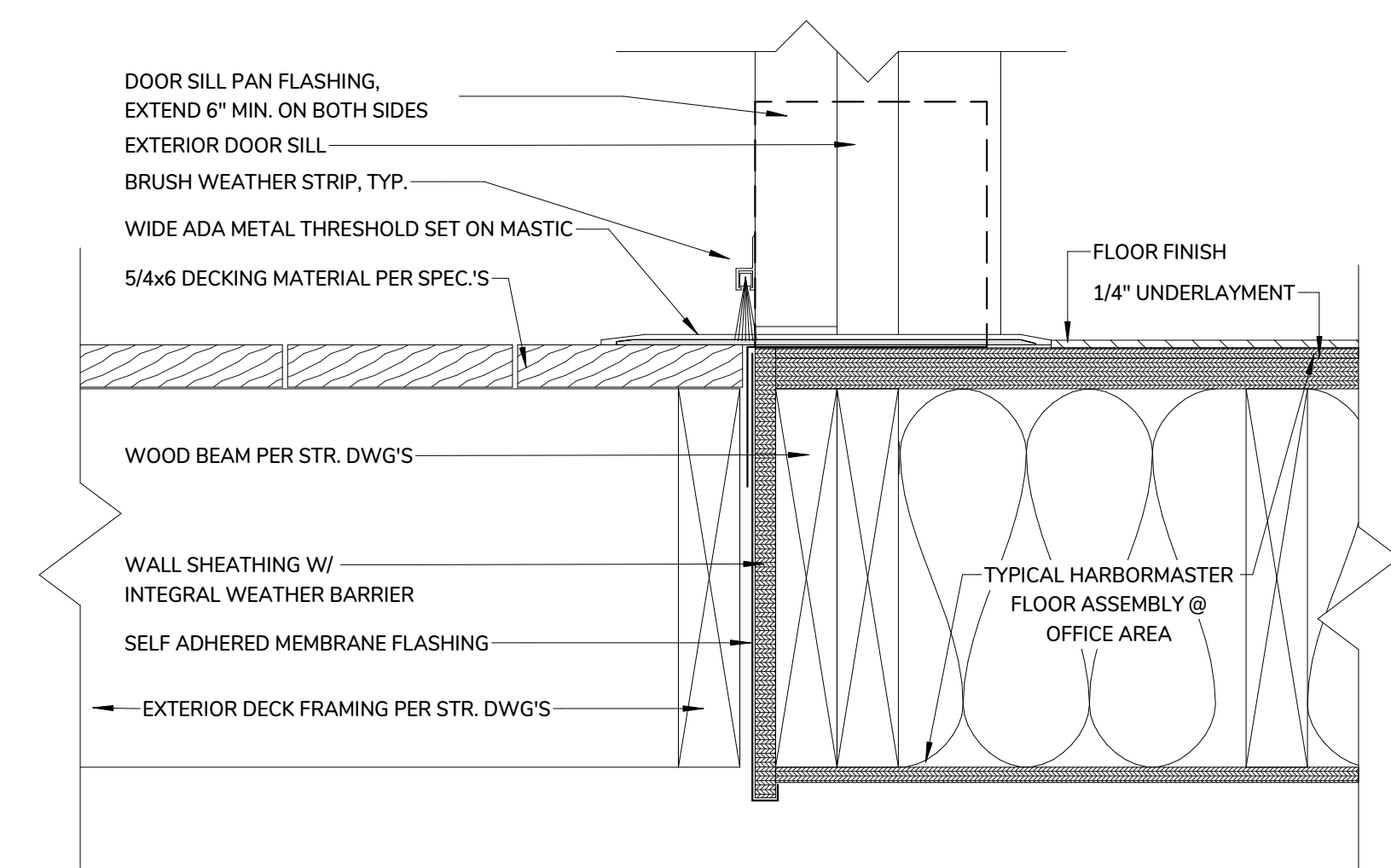
5 INTERIOR DOOR JAMB DETAIL  
3" = 1'-0"



4 INTERIOR DOOR HEAD DETAIL  
3" = 1'-0"



3 TYPICAL EXTERIOR DOOR SILL DETAIL  
3" = 1'-0"



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TITLE:  
HARBORMASTER OFFICE - DOOR SCHEDULE & DOOR DETAILS

DATE ISSUED: 08 . 01 . 2025

Revisions

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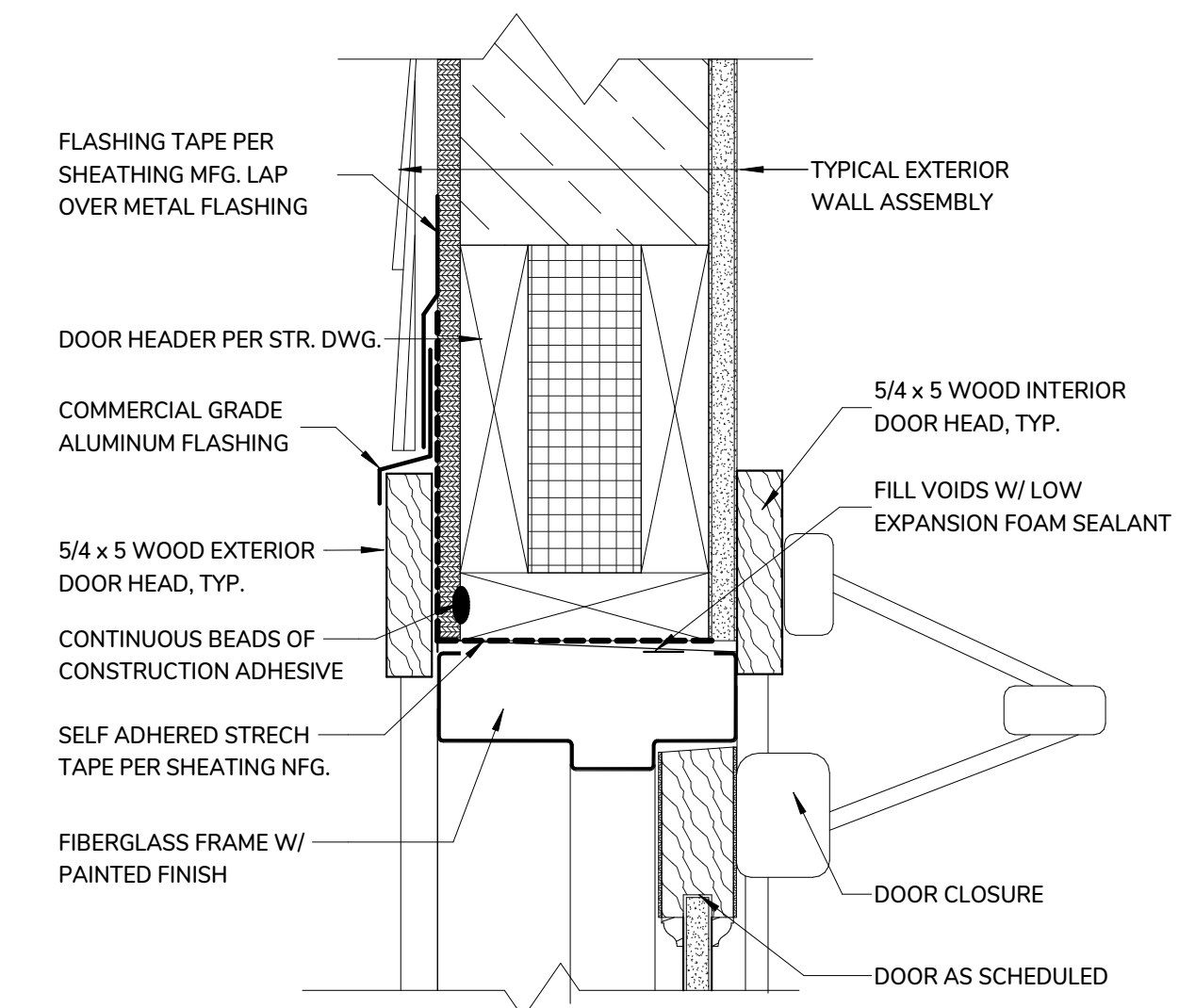
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### Harbormaster Garage Room Finish Schedule

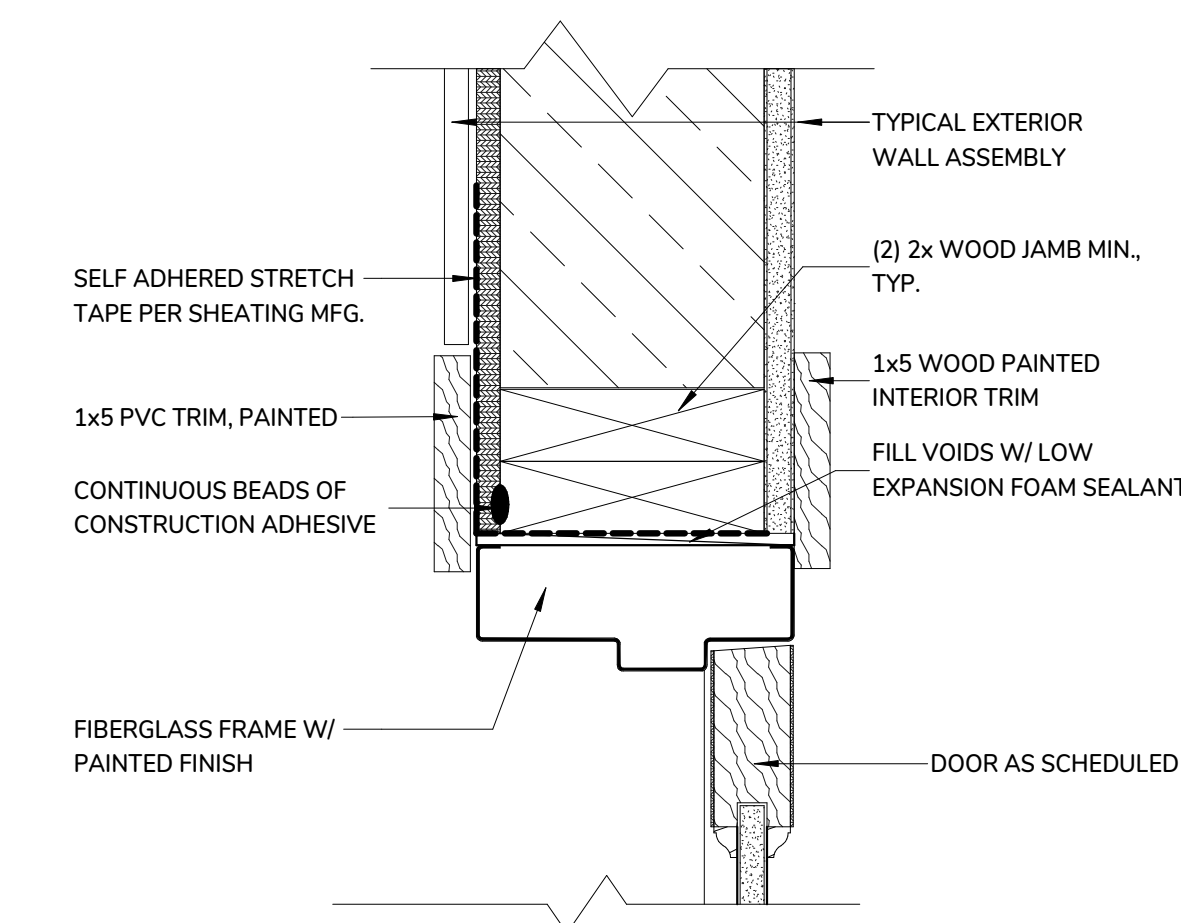
No.	Name	Floor Finish	Base	Walls		Ceiling		Comments
				Material	Finish	Material	Finish	
Garage								
20	HIGH BAY GARAGE AREA	CONCRETE	PVC	MARINE GRADE PLYWOOD TO BASE FLOOD ELEVATION / PLYWOOD	UNFINISHED	Plywood	UNFINISHED	
21	ENTRY / WORK AREA	CONCRETE	PVC	MARINE GRADE PLYWOOD TO BASE FLOOD ELEVATION / PLYWOOD	UNFINISHED	Plywood	UNFINISHED	
23	RESTROOM	EPOXY	PVC	MARINE GRADE PLYWOOD TO BASE FLOOD ELEVATION / PLYWOOD	UNFINISHED	Plywood	UNFINISHED	

### Harbormaster Garage Door Schedule

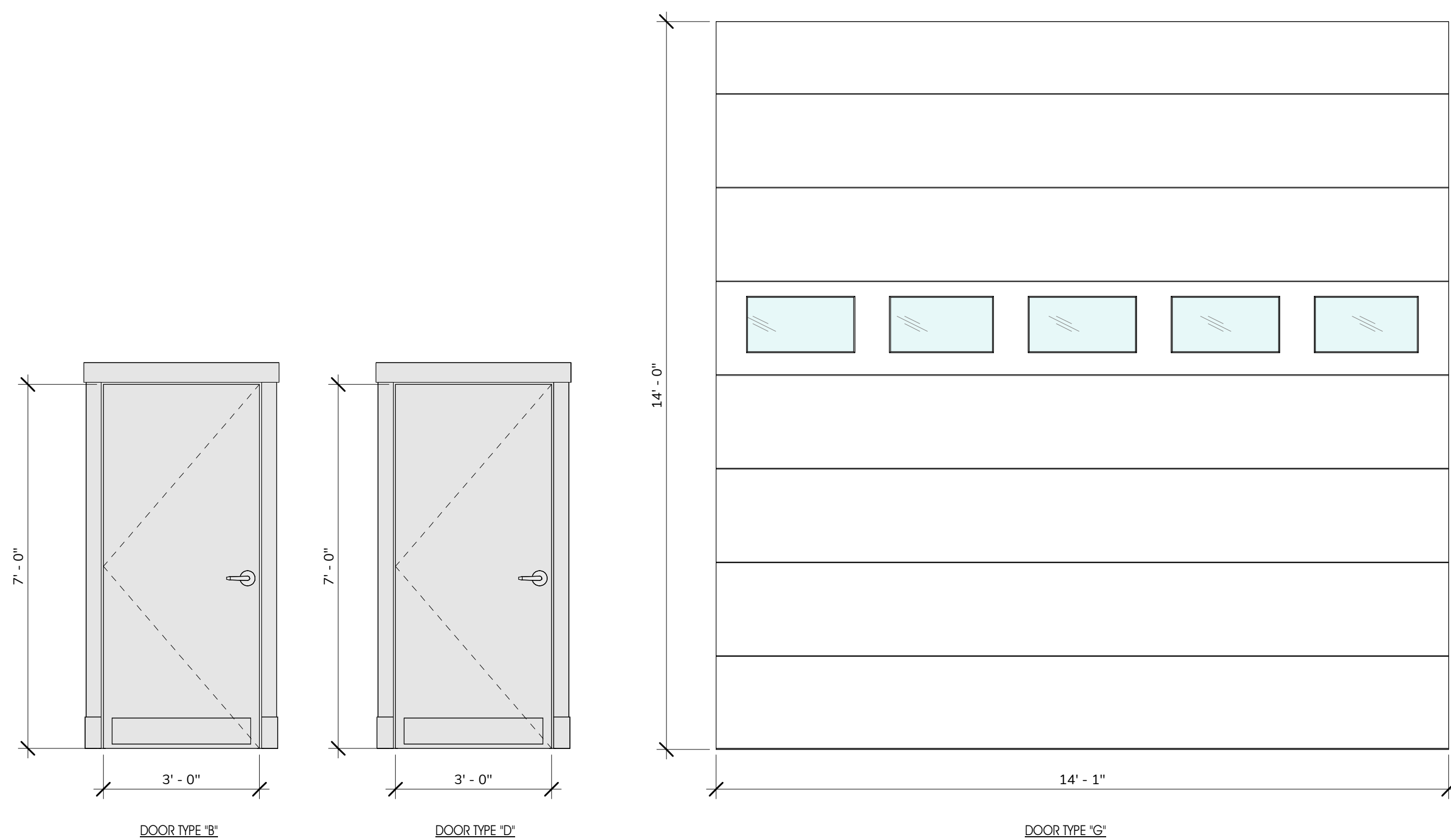
Mark	Manufacturer	Material	Model	Type	Dimensions			slab type	Frame Material	Head Detail	Jamb Detail	Sill Detail	Hardware Set	Comments
					Width	Height	Thick							
GARAGE														
G01	OVERHEAD DOOR CO.	INSULATED STEEL	THERMACORE 525	TYPE "G"	14'-0"	14'-0"	2"	SECTIONAL	WOOD	3 / A9.2		6 / A9.2		
G02	EDGEWATER	FIBERGLASS REINFORCED PANELS	EH SERIES	TYPE "B"	3'-0"	7'-0"	1 3/4"	FLUSH DOOR	FIBERGLASS	1 / A9.2	2 / A9.2		HW-01	
G03	TRUSTILE	MDF	TMF1000	TYPE "D"	3'-0"	7'-0"	1 3/4"	TWO PANELS	WOOD	4 / A9.2	5 / A9.2		HW-04	



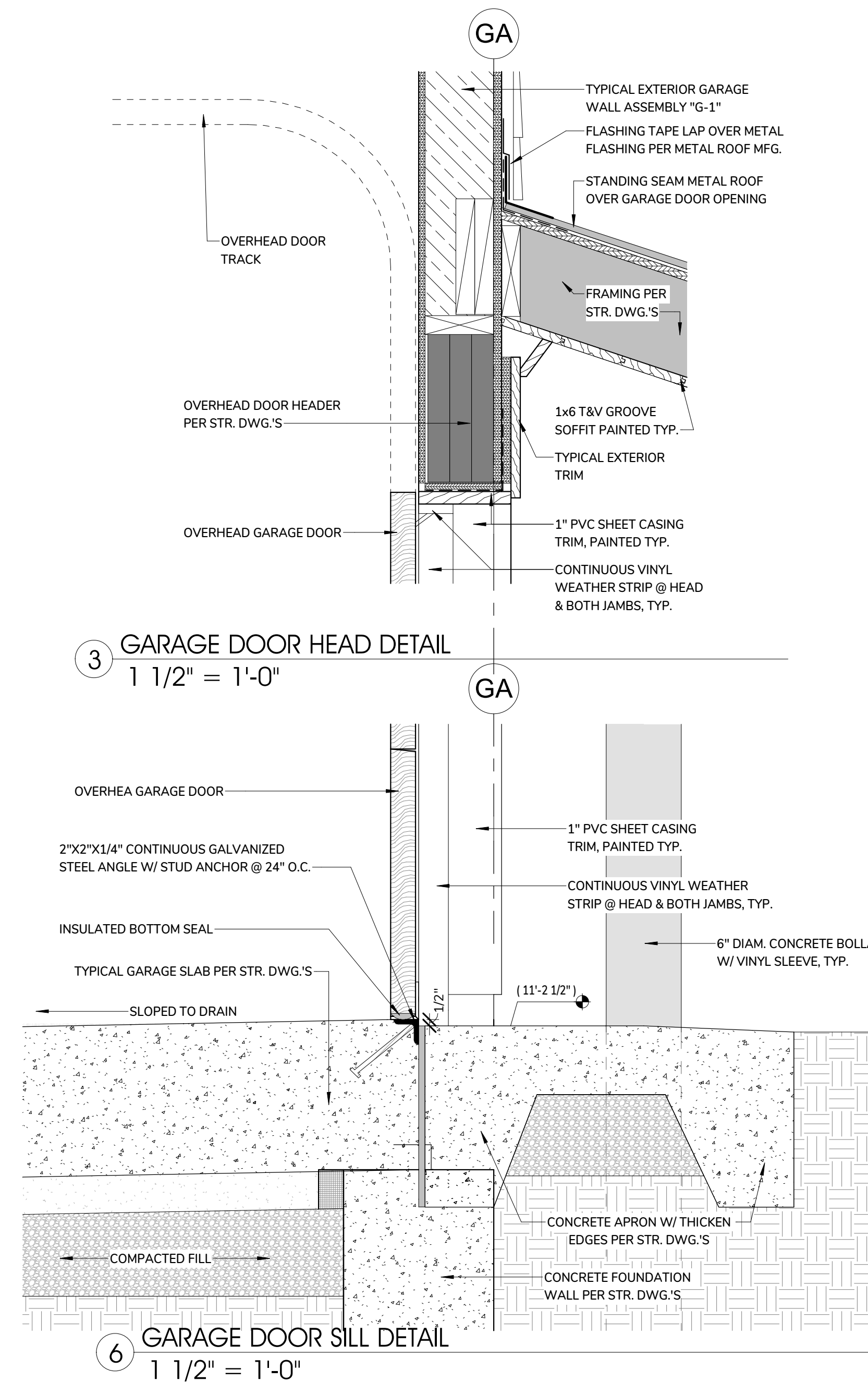
1 TYPICAL EXTERIOR DOOR HEAD DETAIL.  
3" = 1'-0"



2 TYPICAL EXTERIOR DOOR JAMB DETAIL.  
3" = 1'-0"

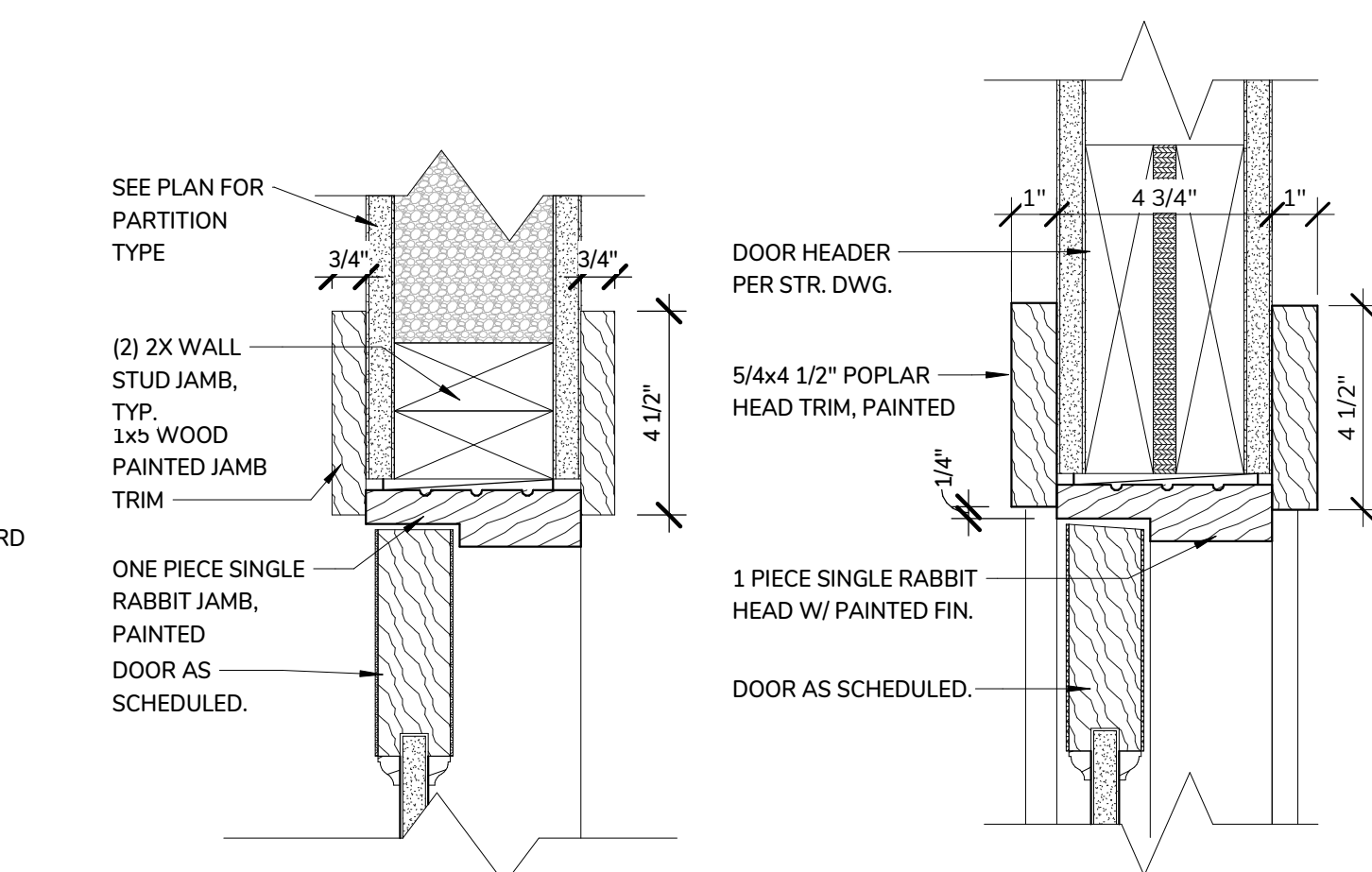


HARBORMASTER GARAGE DOOR ELEVATIONS  
1/2" = 1'-0"



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

6 GARAGE DOOR SILL DETAIL  
1 1/2" = 1'-0"



5 INTERIOR DOOR JAMB DETAIL.  
3" = 1'-0"

4 INTERIOR DOOR HEAD DETAIL.  
3" = 1'-0"

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TITLE:  
HARBORMASTER  
GARAGE  
OPENING  
SCHEDULES &  
DETAILS

DATE ISSUED: 08 . 01 . 2025

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DRAWN BY: Author

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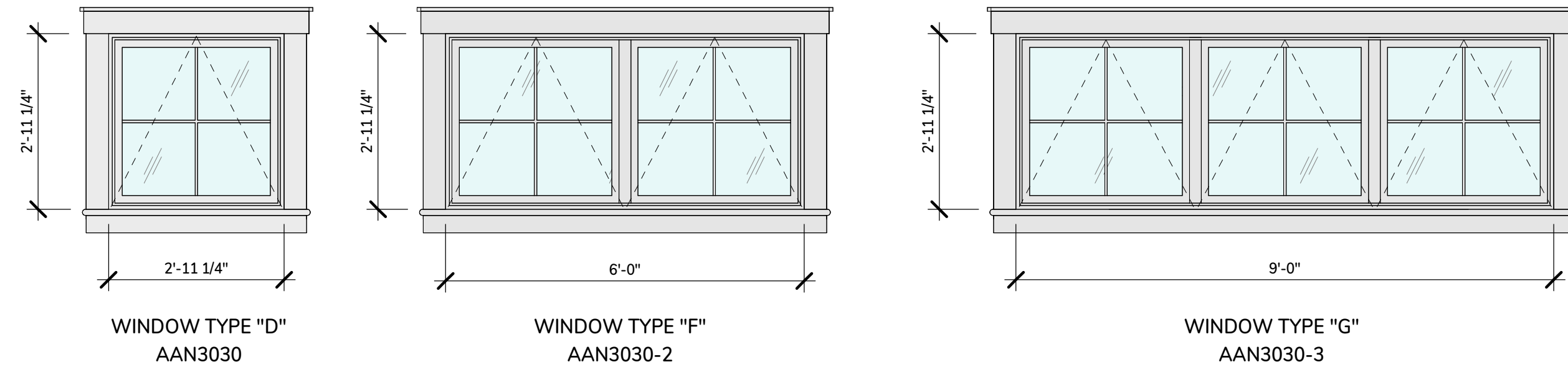
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## Harbormaster Garage Window Schedule

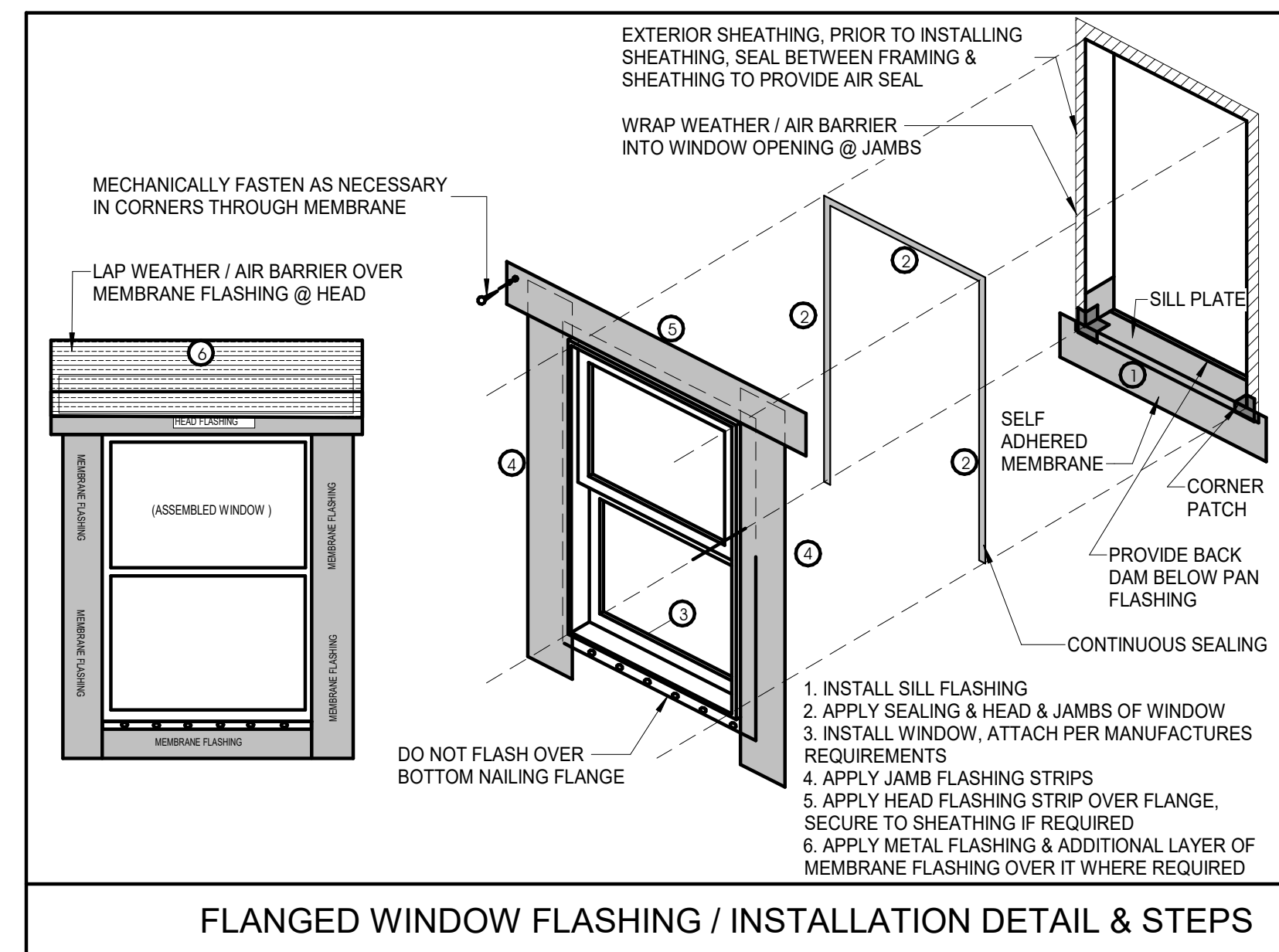
Mark	Manufacturer	Type	Operation	Model	MINIMUM Rough Dimensions			Window Detail			Comments
					Rough Width	Rough Height	Head Height	Head Detail	Jamb Detail	Sill Detail	
<b>GARAGE</b>											
G1	ANDERSEN - A SERIES - STORMWATCH	D	AWNING WINDOW	AAN3030	3'-0"	3'-0"	7'-1 1/2"	H-1	J-1	S-1	
G2	ANDERSEN - A SERIES - STORMWATCH	D	AWNING WINDOW	AAN3030	3'-0"	3'-0"	7'-1 1/2"	H-1	J-1	S-1	
G3	ANDERSEN - A SERIES - STORMWATCH	F	DOUBLE AWNING WINDOW	AAN3030-2	6'-1 1/2"	3'-0"	7'-0 1/2"	H-1	J-1 / M-1	S-1	FACTORY MULLED
G4	ANDERSEN - A SERIES - STORMWATCH	D	AWNING WINDOW	AAN3030	3'-0"	3'-0"	7'-1 1/2"	H-1	J-1	S-1	
G5	ANDERSEN - A SERIES - STORMWATCH	D	AWNING WINDOW	AAN3030	3'-0"	3'-0"	11'-7 1/2"	H-1	J-1	S-1	
G6	ANDERSEN - A SERIES - STORMWATCH	D	AWNING WINDOW	AAN3030	3'-0"	3'-0"	7'-1 1/2"	H-1	J-1	S-1	
G7	ANDERSEN - A SERIES - STORMWATCH	D	AWNING WINDOW	AAN3030	3'-0"	3'-0"	11'-7 1/2"	H-1	J-1	S-1	
G8	ANDERSEN - A SERIES - STORMWATCH	F	DOUBLE AWNING WINDOW	AAN3030-2	6'-1 1/2"	3'-0"	11'-7 1/2"	H-1	J-1 / M-1	S-1	FACTORY MULLED
G9	ANDERSEN - A SERIES - STORMWATCH	G	TRIPLE AWNING WINDOW	AAN3030-3	9'-2 1/4"	3'-0"	11'-7 1/2"	H-1	J-1 / M-1	S-1	FACTORY MULLED
G10	ANDERSEN - A SERIES - STORMWATCH	F	DOUBLE AWNING WINDOW	AAN3030-2	6'-1 1/2"	3'-0"	11'-7 1/2"	H-1	J-1 / M-1	S-1	FACTORY MULLED

**NOTES:**

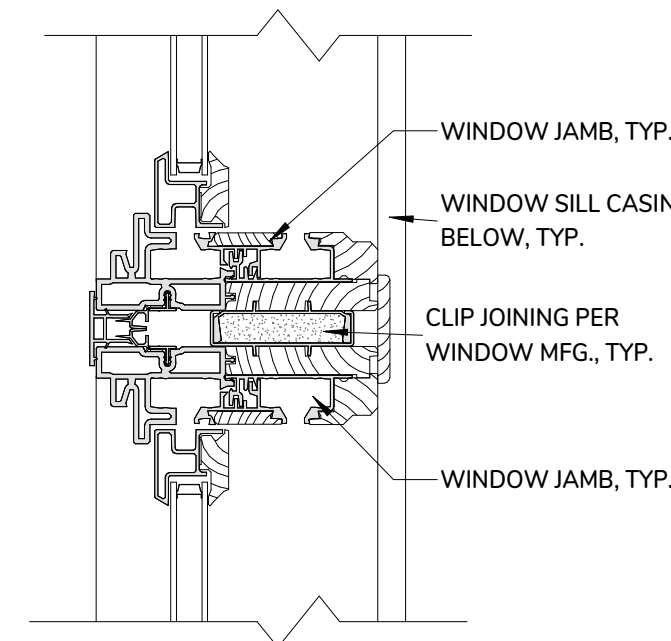
1. WINDOW INSTALLATION PER WINDOW MANUFACTURE INSTRUCTIONS.
2. ROUGH OPENING DIMENSIONS SHOWN ARE MINIMUM FOR PROPER INSTALLATION AND MAY BE NEED TO BE INCREASED TO ALLOW FOR USE OF BUILDING WRAPS, FLASHING, SILL OR PAN FLASHING, ANCHORING BRACKETS OR OTHER MATERIALS. CONSULT WINDOW MANUFACTURER FOR SPECIFIC REQUIREMENTS.
3. WINDOW GRILLS ARE SIMULATED DIVIDED LITES WITH SPACER BAR BETWEEN GLASS AND PERMINATELY APPLIED GRILLS INTERIOR AND EXTERIOR. SEE ELEVATION DRAWINGS FOR GRILL PATTERNS.



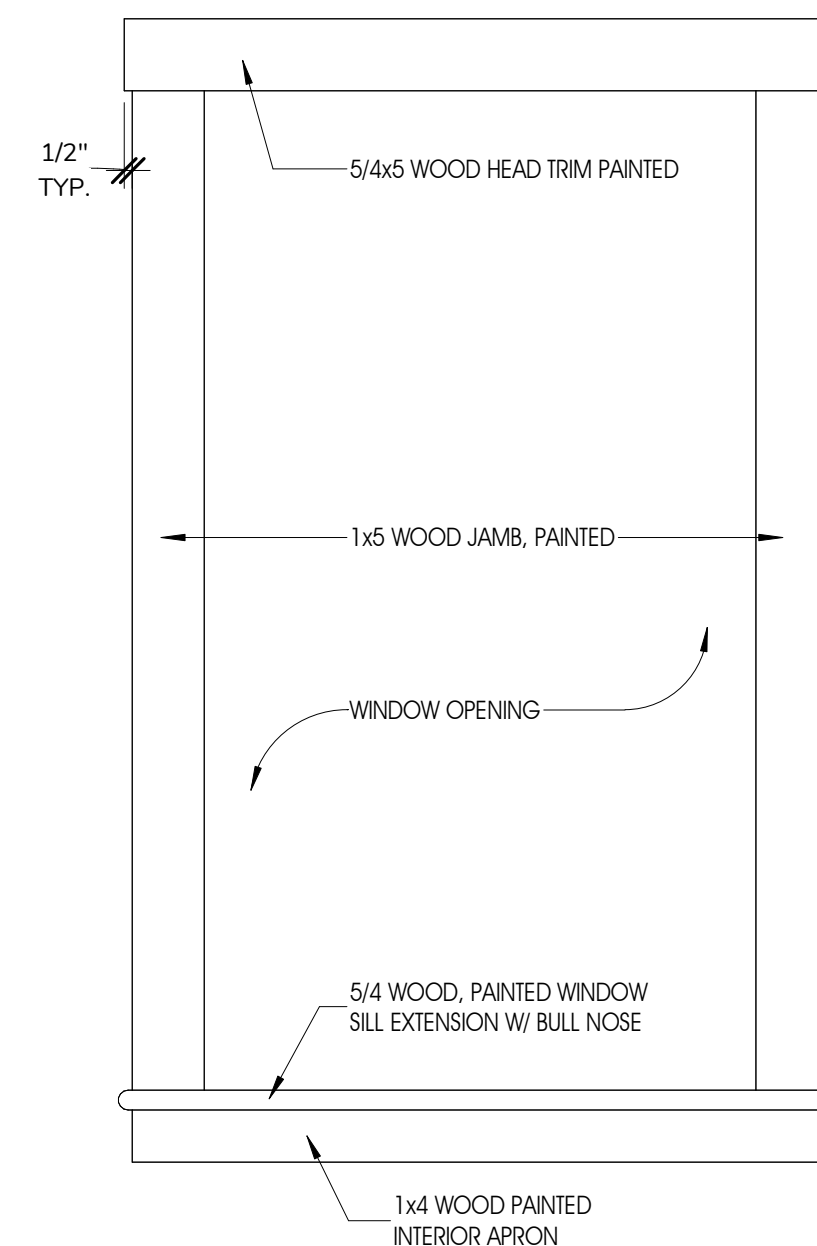
HARBORMASTER GARAGE WINDOW ELEVATIONS  
1/2" = 1'-0"



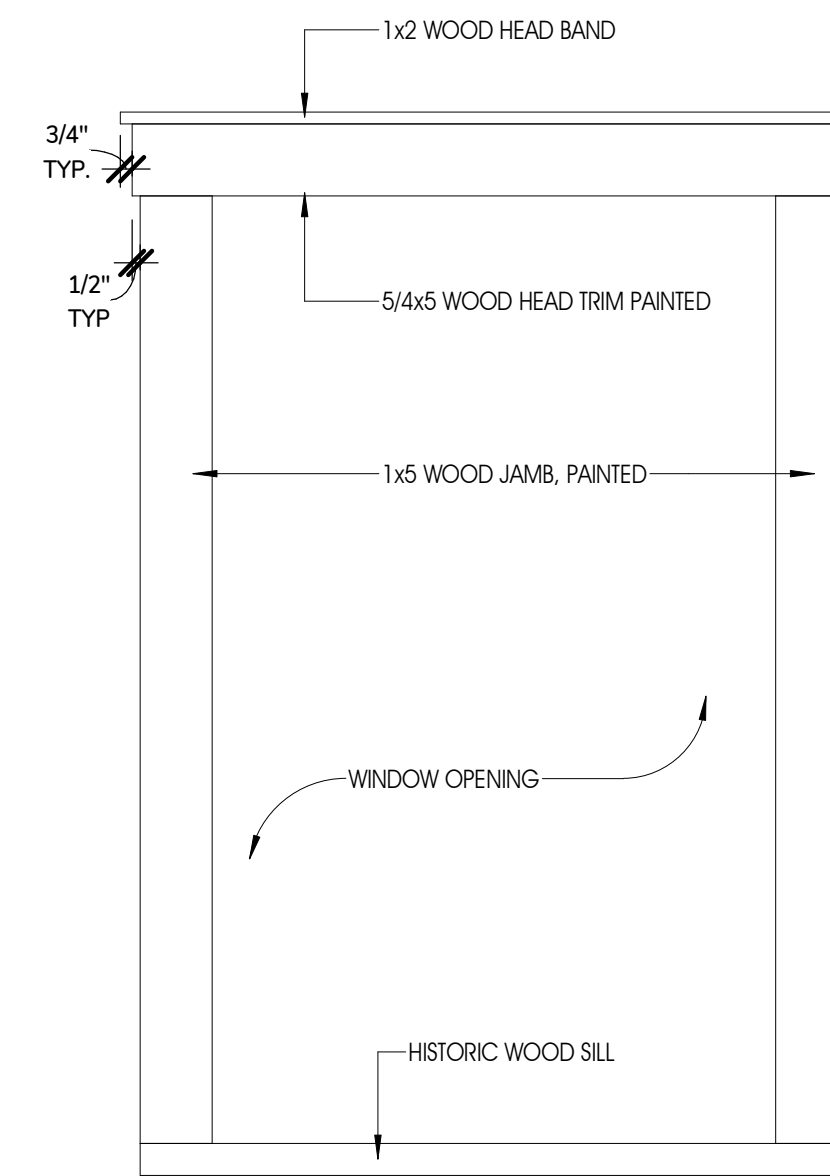
5 FLANGED WINDOW FLASHING DETAIL & STEPS.  
1/2" = 1'-0"



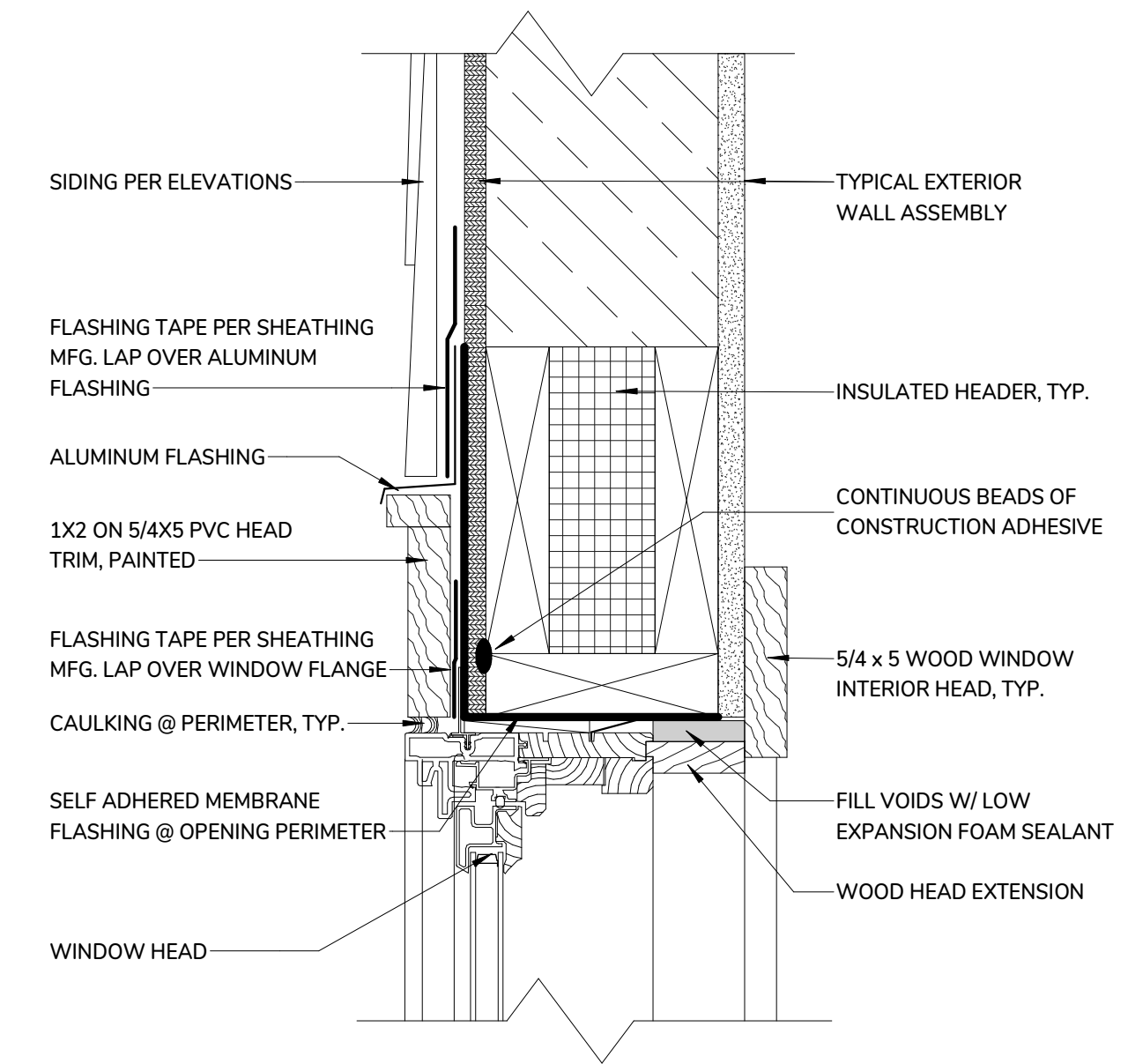
4 GARAGE - TYPICAL WINDOW MEETING DETAIL "M-1"  
3" = 1'-0"



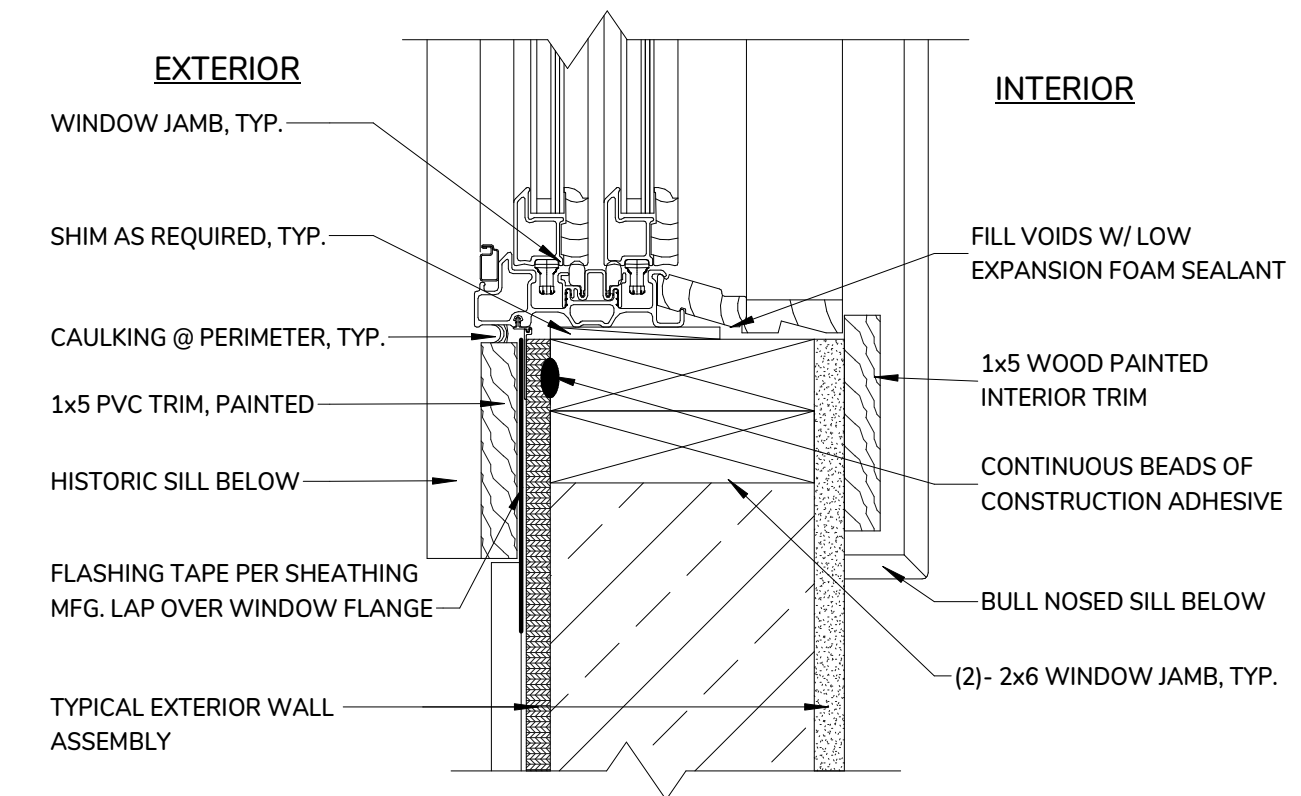
TYPICAL INTERIOR WINDOW TRIM.  
1" = 1'-0"



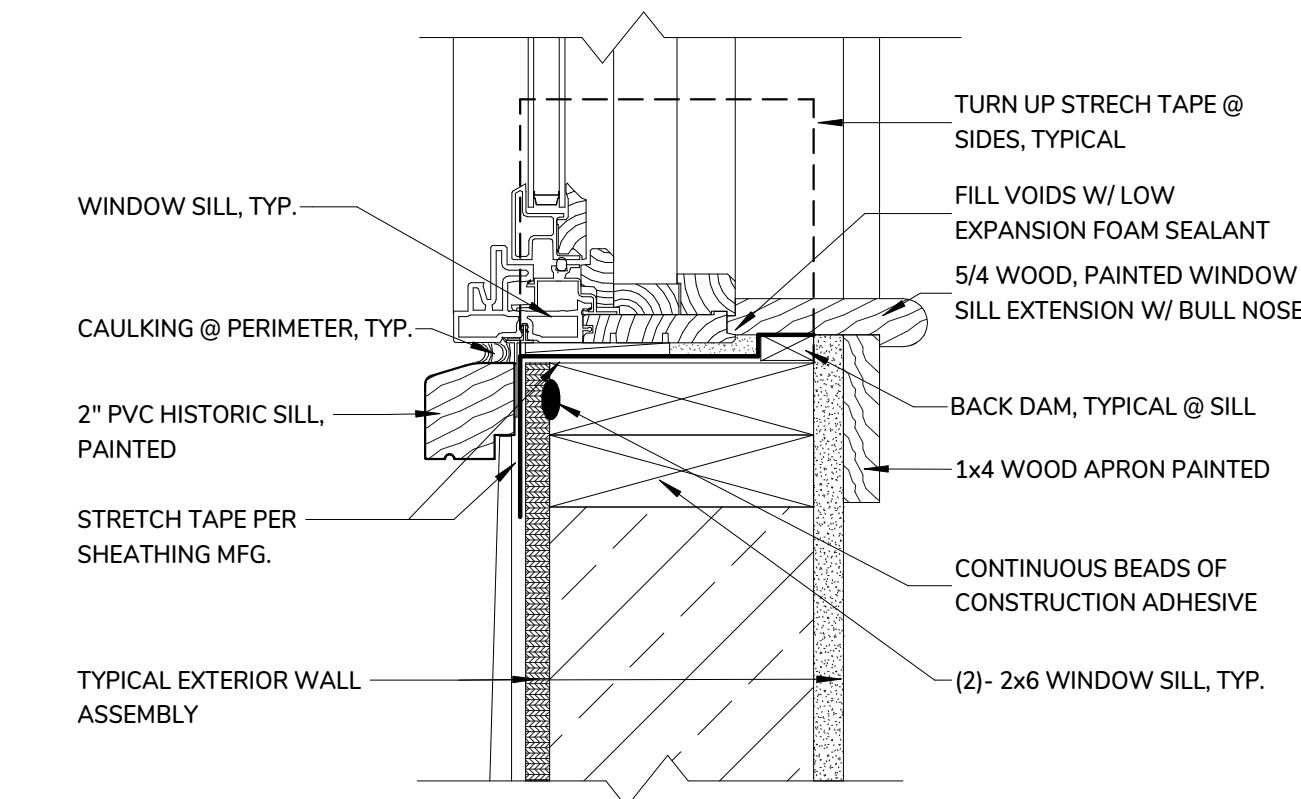
TYPICAL EXTERIOR WINDOW TRIM.  
1" = 1'-0"



1 GARAGE - TYPICAL WINDOW HEAD DETAIL "H-1"  
3" = 1'-0"



2 GARAGE - TYPICAL WINDOW JAMB DETAIL "J-1"  
3" = 1'-0"



3 GARAGE - TYPICAL WINDOW SILL DETAIL "S-1"  
3" = 1'-0"

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**SESUIT HARBOR IMPROVEMENTS**  
**TOWN OF DENNIS**

351 SESUIT HARBOR ROAD  
DENNIS, MA 02660

TITLE:  
**HARBORMASTER GARAGE WINDOW SCHEDULE & WINDOW**

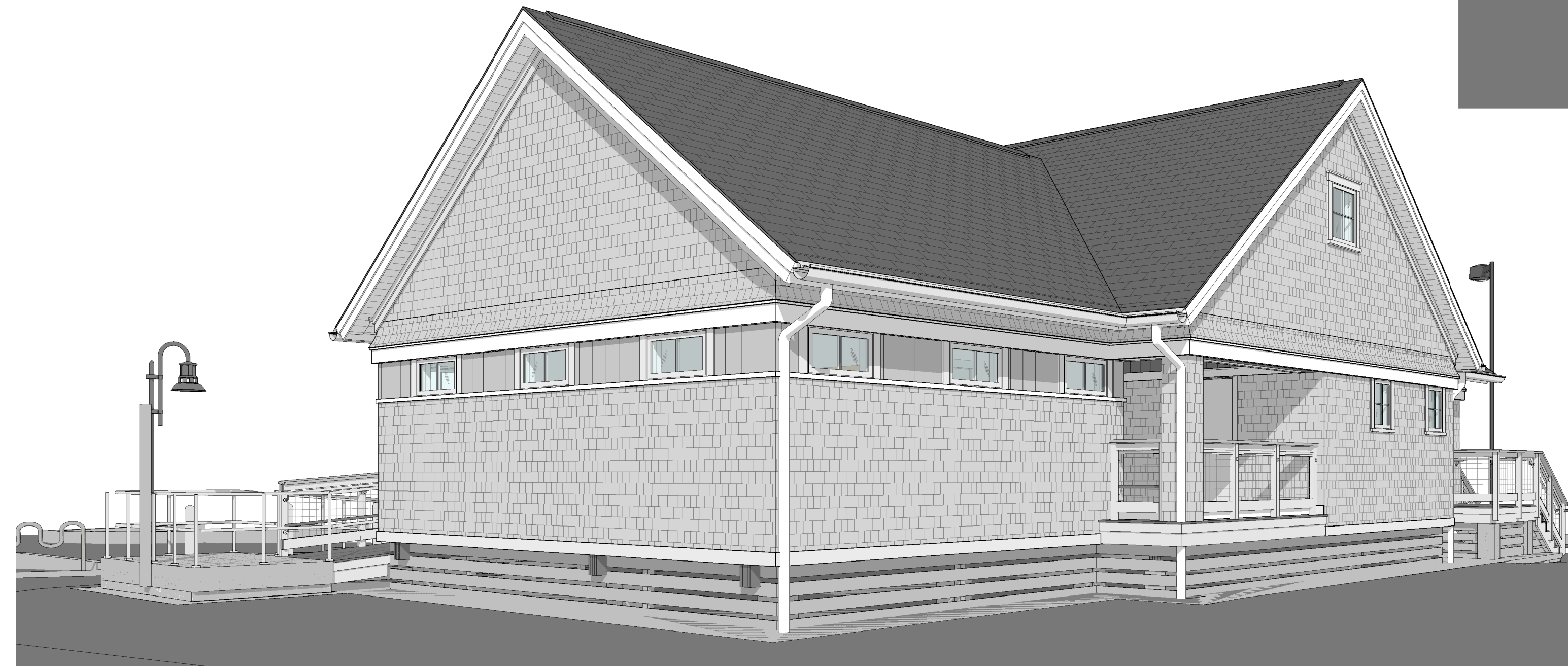
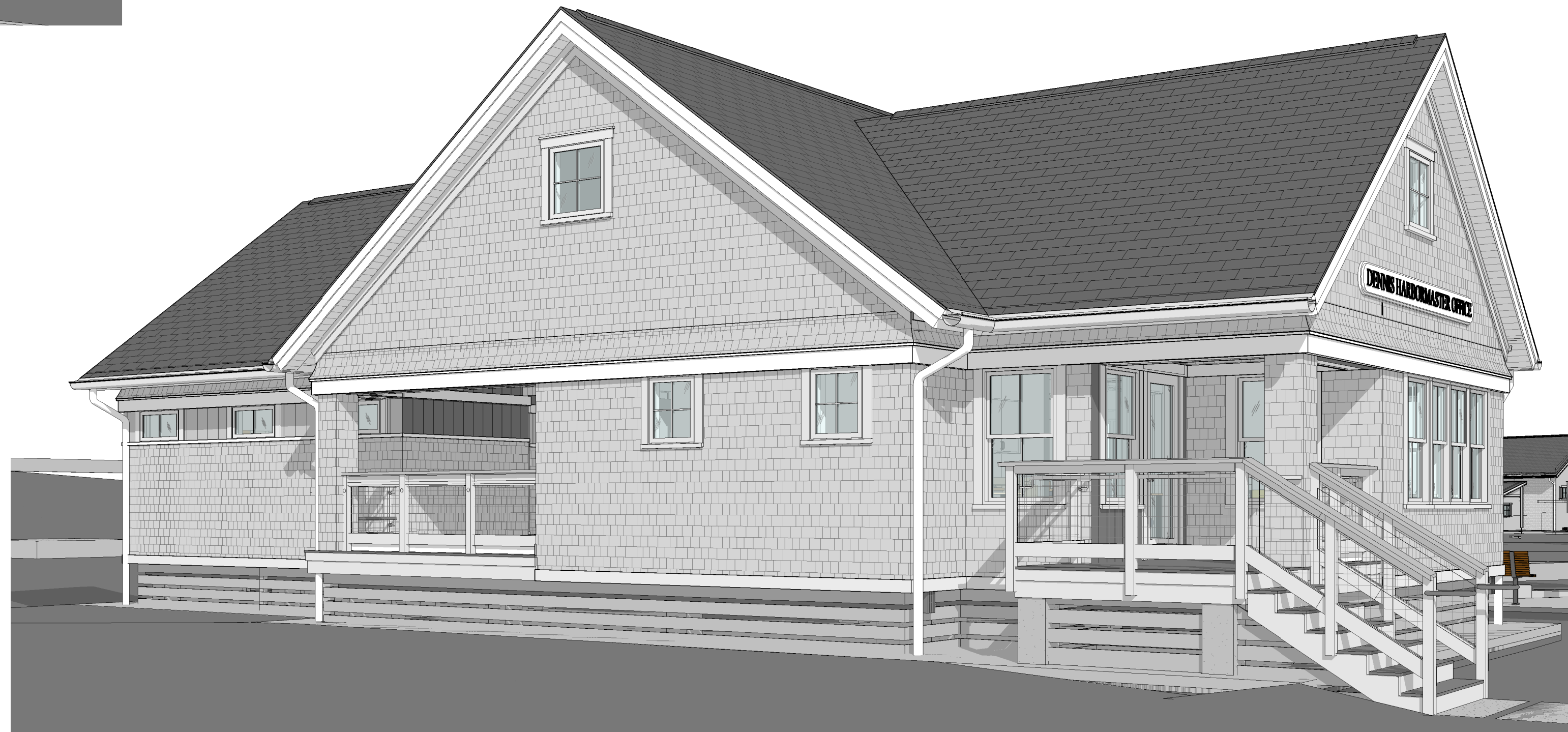
DATE IS **DETAIL S**  
08 . 01 . 2025

REVISIONS:  
No. Description Date

DRAWING NO.:

A9.5

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**SESUIT HARBOR IMPROVEMENTS  
TOWN OF DENNIS**

351 SESUIT HARBOR ROAD  
DENNIS, MA 02660

TITLE:  
**HARBORMASTER  
OFFICE - 3D  
VIEWS**

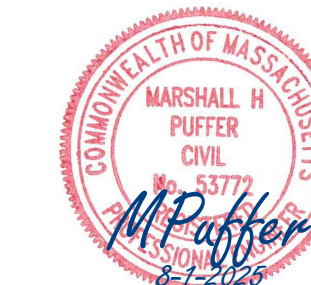
DATE ISSUED: 08 . 01 . 2025

REVISIONS:  
No. Description Date

DRAWING NO.:

**A9.6**

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STRUCTURAL SHEET LIST

Table with 2 columns: SHEET NUMBER, SHEET NAME. Lists sheets S0.1 through S4.0 including General Notes, Foundation Plan, Framing Plan, and Details.

TYPICAL ABBREVIATIONS

Table mapping abbreviations (e.g., ADD'L, ALT, B/W) to their full names (e.g., ADDITIONAL, ALTERNATE, BOTH WAYS).

TYPICAL SYMBOLS

Table mapping symbols (e.g., H-OR-O) to their descriptions (e.g., SHEAR AND MOMENT CONNECTION TO W OR HSS SHAPE).

GENERAL STRUCTURAL NOTES:

- 1. STRUCTURAL WORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DESIGN PLANS BY "CATALYST ARCHITECTURE | INTERIORS" AND GEOTECHNICAL REPORT TITLED "GEOTECHNICAL INVESTIGATION REPORT" DATED NOVEMBER 2023 AND PREPARED BY "BRIGGS ENGINEERING & TESTING"; AS WELL AS CIVIL, MECHANICAL, ELECTRICAL, PLUMBING (AND OTHER TRADES AS NEEDED) DESIGN PLANS AND SPECIFICATIONS. STRUCTURAL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE FOLLOWING GOVERNING STANDARDS:

CONCRETE NOTES

- 1. CONCRETE MATERIALS SHALL BE PLANT MIXED WITH APPROPRIATE ADDITIVES TO ACHIEVE SUFFICIENT FLOW OF MATERIAL, AND SHALL INCLUDE TYPE 1 OR 2 PORTLAND CEMENT, SAND AND GRAVEL AGGREGATES. CONCRETE SHALL BE AIR-ENTRAINED PER ACI RECOMMENDATIONS. CONCRETE COMPRESSIVE STRENGTH, (F'c) IN 28 DAYS, WHEN TESTED IN ACCORDANCE WITH THE LATEST ACI 318 SHALL BE 4000 PSI (UNLESS NOTED OTHERWISE).

WOOD FRAMING NOTES

- 1. FRAMING LUMBER SHALL CONFORM TO THE LATEST EDITION OF THE AFPA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", AND SUPPLEMENT "DESIGN VALUES FOR WOOD CONSTRUCTION", LATEST EDITION. MAXIMUM MOISTURE CONTENT SHALL BE 19%.

DIMENSIONAL LUMBER

- FOR EXPOSED PRESSURE TREATED DIMENSIONAL LUMBER\*
-FLOOR FRAMING AND BEAMS: #1 SOUTHERN YELLOW PINE Fb = 1050 PSI, E = 1.6E6 PSI

- 2. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AND MAKE SAFE FLOORS, ROOFS, WALLS AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE.

- 7. WELDED WIRE FABRIC (WWF) SHALL BE NEW AND FREE FROM RUST. FABRIC SHALL CONFORM TO CRSI SPECIFICATIONS AND TO ASTM A185 WITH A MINIMUM TENSILE STRENGTH OF 70,000 PSI. REFER TO PLAN FOR SIZES.

- 6. LAMINATED VENEER LUMBER (LVL) TO HAVE A MINIMUM ALLOWABLE BENDING STRESS (Fb) OF 3,100 PSI. THE MINIMUM ALLOWABLE COMPRESSIVE STRESS (Fc) PERPENDICULAR TO THE GRAIN SHALL BE 750 PSI. THE MINIMUM ALLOWABLE MODULUS OF ELASTICITY (E) SHALL BE 2,000,000 PSI.

DESIGN LOAD NOTES:

- 1. GRAVITY LIVE LOADS
-SHOP SPACES = 100 PSF
-OFFICE/BATHROOM SPACES = 50 PSF

- 12. CONCRETE SHALL BE PROTECTED AGAINST FROST AND FREEZING UNTIL PROJECT IS COMPLETED. PROVIDE PROPER CONCRETE PROTECTION OR HEAT IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE CURRENT ACI CODE OF STANDARD PRACTICE SPECIFICATIONS AND GUIDELINES.

- 7. DETAILS OF WOOD FRAMING SUCH AS NAILING, BLOCKING, BRIDGING, FIRESTOPPING, ETC. SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION (AFPA), THE TIMBER CONSTRUCTION MANUAL (AITC), AND ARCHITECTURAL GRAPHICS STANDARD BY RAMSEY & SLEEPER.

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SESUIT HARBOR IMPROVEMENTS

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Table with 3 columns: MARK, DATE, DESCRIPTION. Lists project details like PROJECT NO: C19676.01, DATE: 08/01/2025.

GENERAL NOTES

SCALE: NO SCALE

S0.1



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SESUIT HARBOR IMPROVEMENTS

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Table with 3 columns: MARK, DATE, DESCRIPTION. Contains project metadata including PROJECT NO: C19676.01, DATE: 08/01/2025, FILE: C19676.01-S0.2, DRAWN BY: JWH, DESIGNED/CHECKED BY: EJM/MHP, APPROVED BY: JAB.

GENERAL NOTES SCALE: NO SCALE S0.2

STRUCTURAL TESTING AND SPECIAL INSPECTIONS (01 45 23) NOTES:

- 1. GENERAL PROVISIONS
A. THE TENTH (10TH) EDITION OF THE MASSACHUSETTS STATE BUILDING CODE, 780 CMR, UNDER WHICH THIS PROJECT IS DESIGNED AND WILL BE BUILT, REQUIRES THE STRUCTURAL ENGINEER OF RECORD (SER) TO PROVIDE A STATEMENT OF STRUCTURAL TESTS AND INSPECTIONS FOR THIS PROJECT IN ACCORDANCE WITH 780 CMR 17.00. THE SER IS THE STRUCTURAL ENGINEER (AN INDIVIDUAL) WHO IS IN RESPONSIBLE CHARGE OF THE PREPARATION OF THE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT AND WHOSE MASSACHUSETTS PROFESSIONAL ENGINEERING SEAL APPEARS ON SAID STRUCTURAL DRAWINGS.
B. THE SER HAS PREPARED A DOCUMENT ENTITLED "PROGRAM OF STRUCTURAL TESTING AND INSPECTIONS", WHICH HAS BEEN OR WILL BE SUBMITTED TO THE BUILDING OFFICIAL WHO HAS JURISDICTION OVER THIS PROJECT, WITH THE APPLICATION FOR A BUILDING PERMIT.
C. THE STATEMENT OF STRUCTURAL TESTS AND INSPECTIONS SHALL NOT RELIEVE THE GENERAL CONTRACTOR OR ITS SUBCONTRACTORS OF THEIR RESPONSIBILITIES AND OBLIGATIONS FOR QUALITY CONTROL OF THE WORK, THEIR OTHER OBLIGATIONS FOR SUPERVISING THE WORK, FOR ANY DESIGN WORK WHICH IS INCLUDED IN THEIR FULL SCOPE OF SERVICES, AND FOR FULL COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
D. THE STATEMENT OF STRUCTURAL TESTS AND INSPECTION DOES NOT APPLY TO THE GENERAL CONTRACTOR'S EQUIPMENT, TEMPORARY STRUCTURES USED BY THE GENERAL CONTRACTOR TO CONSTRUCT THE PROJECT, THE CONTRACTOR'S MEANS, METHODS, AND PROCEDURES, AND JOB SITE SAFETY.
2. CONTRACTOR'S RESPONSIBILITIES
A. WHERE THE DOCUMENT "PROGRAM OF STRUCTURAL TESTING AND INSPECTIONS", INDICATES THAT A STRUCTURAL COMPONENT OR SYSTEM IS SUBJECT TO STRUCTURAL TESTS AND INSPECTIONS BY 780 CMR 17.00 AND THAT THE SER FOR THE PROJECT HAS NOT BEEN RETAINED TO DESIGN SAID COMPONENT OR SYSTEM OR TO PREPARE A PERFORMANCE SPECIFICATION FOR SAID COMPONENT OR SYSTEM, AND THE ARCHITECT HAS NOT OTHERWISE PROVIDED FOR THE STRUCTURAL DESIGN OF SAID COMPONENT OR SYSTEM, THE GENERAL CONTRACTOR SHALL RETAIN, OR REQUIRE OTHERS UNDER HIS AEGIS TO RETAIN, A PROFESSIONAL ENGINEER REGISTERED IN MASSACHUSETTS TO DESIGN SAID COMPONENT OR SYSTEM AND TO PROVIDE THE REQUIRED PROGRAM OF STRUCTURAL TESTS AND INSPECTIONS FOR SAID COMPONENT OR SYSTEM.
B. THIS ENGINEER SHALL VISIT THE SITE AND PROVIDE AN AFFIDAVIT TO THE SER ADDRESSED TO THE BUILDING INSPECTOR VERIFYING THAT CONSTRUCTION HAS BEEN COMPLETED IN ACCORDANCE WITH THE SUBMITTED DOCUMENTS.
C. THE GENERAL CONTRACTOR SHALL PROVIDE FREE AND SAFE ACCESS TO THE WORK FOR THE SER AND ALL OTHER INDIVIDUALS WHO ARE OBSERVING THE WORK OR PERFORMING STRUCTURAL TESTS OR INSPECTIONS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL LADDERS, SCAFFOLDING, STAGING AND UP-TO-DATE SAFETY EQUIPMENT, ALL IN GOOD AND SAFE WORKING ORDER, AND QUALIFIED PERSONNEL TO HANDLE AND ERECT THEM, AS THEY MAY BE REQUIRED FOR SAFE ACCESS.
D. THE CONTRACTOR SHALL GIVE REASONABLE NOTICE TO THE SER, OR TO THOSE PERFORMING INSPECTIONS AND TESTS UNDER THE SER'S DIRECTION, OF WHEN THE VARIOUS PARTS OF THE WORK WILL BE READY FOR INSPECTION. THE CONTRACTOR SHALL OBTAIN INSTRUCTIONS FROM THE SER AS TO WHAT IS REASONABLE NOTICE FOR VARIOUS ASPECTS OF THE WORK AND WHO IS TO BE NOTIFIED.
E. THE OWNER RESERVES THE RIGHT BACK TO CHARGE CONTRACTOR FOR ADDITIONAL EXPENSE INCURRED BY THE OWNER FOR THE SERVICES OF THE SER OR THOSE UNDER HIS DIRECTION WHEN WORK IS NOT REASONABLY READY FOR INSPECTION IN ACCORDANCE WITH THE NOTICE PROVIDED BY THE CONTRACTOR.

STRUCTURAL STEEL NOTES

- 1. STRUCTURAL STEEL ROLLED SHAPES SHALL BE NEW STEEL CONFORMING TO THE FOLLOWING ASTM DESIGNATIONS:
ASTM A36 ANGLES, CHANNELS, PLATES AND MISC. FRAMING MEMBERS, UNLESS OTHERWISE NOTED (MINIMUM YIELD STRENGTH Fy=36,000 PSI).
ASTM A992 OR A572 WIDE FLANGE BEAM SHAPES (MINIMUM YIELD STRENGTH Fy=50,000 PSI).
ASTM A325 BOLTS USED FOR CONNECTING STRUCTURAL STEEL MEMBERS.
ASTM A307 GR "A" ANCHOR BOLTS AND LAG SCREWS UNLESS NOTED OTHERWISE.
2. GROUT USED UNDER COLUMN BASE PLATES SHALL BE NON-SHRINK AND NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI IN 28 DAYS. UNLESS OTHER APPROVED BY THE ENGINEER MAXIMUM APPLICATION THICKNESS OF THE GROUT SHALL BE 1 1/2 INCHES. USE SIKAGROUT 212 (SIKA CORP.) OR APPROVED EQUAL.
3. STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE CURRENT AISC SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
4. THE BEAM-TO-BEAM AND BEAM-TO-COLUMN CONNECTION OF ALL BEAMS SHALL DEVELOP THE FULL END REACTION AND CAPACITY OF THE CONNECTED BEAM, THE END REACTION OF THE CONNECTED BEAM CAN BE OBTAINED FROM UNIFORM LOAD TABLES INCLUDED IN PART 2 (BEAMS AND GIRDERS) OF THE AISC MANUAL, 9TH EDITION. MINIMUM SHEAR CAPACITY OF 12 KIPS SHALL BE PROVIDED FOR BEAMS 8" TO 10" DEEP. THE REACTIONS IF GIVEN ON THE DRAWINGS SUPERSEDE THIS NOTE.
5. FOR HIGH STRENGTH BOLTS, HARDENED WASHERS SHALL BE PROVIDED ON NUT SIDE OF BOLT FOR TORQUING AS REQUIRED.
6. WELDING SHALL CONFORM TO THE CURRENT STANDARD OF THE AMERICAN WELDING SOCIETY (A.W.S.). SHOP AND FIELD WELDS SHALL BE MADE BY APPROVED CERTIFIED WELDERS.
7. ELECTRODES FOR FIELD AND SHOP WELDING SHALL CONFORM TO ASTM A233 (CLASS 70). WELDS NOT SHOWN SHALL BE AWS MINIMUM. WELDS SHALL DEVELOP THE FULL STRENGTH OF THE MATERIAL BEING WELDED. SUBMIT WELDER CURRENT CERTIFICATIONS TO ENGINEER FOR APPROVAL PRIOR TO STARTING WORK.
8. SPLICING STRUCTURAL MEMBERS WHERE NOT DETAILED ON THE DRAWING IS PROHIBITED.
9. DURING THE CONSTRUCTION PHASE IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE NECESSARY, TEMPORARY SHORING AND BRACING TO MAKE THE STRUCTURE STABLE AND PLUMB BEFORE COMPLETION OF CONNECTIONS, SHEAR WALLS AND FLOOR SLABS.
10. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL THE STRUCTURAL FRAME IS PROPERLY SECURED TO THE LATERAL LOAD RESISTING ELEMENTS IN THE BUILDING. THE STABILITY OF THE FRAME DURING ERECTION IS THE CONTRACTOR'S RESPONSIBILITY.
11. AT LEAST 10% OF BOLTED CONNECTION, 50% OF PARTIAL PENETRATION WELDS AND 100% OF FULL PENETRATION WELDS MUST BE TESTED BY AN INDEPENDENT TESTING AGENCY IN ACCORDANCE WITH SPECIAL STRUCTURAL TESTING PROTOCOL PAID FOR BY THE OWNER. INSPECTION OF STRUCTURAL STEEL BOLTED CONNECTIONS SHALL INCLUDE COMPLIANCE WITH SECTION 9 OF THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCS) "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS". WELD INSPECTIONS SHALL BE IN COMPLIANCE WITH SECTION 6 OF THE AMERICAN WELDING SOCIETY (AWS) D1.1, WITH WELD INSPECTORS CERTIFIED IN ACCORDANCE WITH AWS D1.1. THE CONTRACTOR SHALL PAY FOR TESTING AND SUBMIT CERTIFIED TEST RESULTS TO THE ENGINEER FOR REVIEW.
12. SUBMIT THREE COPIES OF SHOP DRAWINGS TO THE ENGINEER SHOWING SETTING PLANS, ERECTION PLANS, DETAILS AND SIZES OF MEMBERS INCLUDING CONNECTIONS. STEEL FABRICATOR IS RESPONSIBLE FOR FINAL CONNECTION DETAILS AND DESIGN IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE A.I.S.C. DETAILING MANUAL.
13. CONNECTION BOLTS TO BE 3/4" DIAMETER, GRADE AS SPECIFIED ABOVE. BOLTS SHALL BE "TORSION-CONTROL" TYPE BOLTS.
14. STEEL SHALL HAVE TWO COATS OF RUST-INHIBITIVE PRIMER PAINT. TOUCH UP WELDS, SCRATCHES OR SCRAPES IN PAINT AFTER ERECTION. STEEL FABRICATOR SHALL COORDINATE PRIMER COMPATIBILITY WITH THE ARCHITECT FOR FIELD APPLICATION OF FINISH PAINTS.
15. WELD STEEL CONTACT SURFACES (OTHER THAN BOLTED CONNECTIONS) WITH A CONTINUOUS 3/16-INCH MINIMUM WELD, UNLESS OTHERWISE SPECIFIED.
16. PROVIDE A 1/4" DIAMETER WEEP HOLE AT THE BASE OF ALL TUBE COLUMNS.
17. STEEL BEAM-TO-STEEL BEAM CONNECTIONS SHALL CONTAIN DOUBLE CLIP ANGLE CONNECTIONS, UNLESS SPECIFIC INTERFERENCE OF SUCH REQUIRES THE USE OF SHEAR TABS. AS SUCH, SHOP COPING OF BEAM BOTTOM FLANGES IS RECOMMENDED FOR EASY OF ERECTION.
18. TORCH CUTTING OR HOLE BURNING IS NOT ALLOWED, NO EXCEPTIONS.
19. NAILERS AND BLOCKING USED FOR STEEL BEAMS SHALL BE PRESSURE TREATED, SOUTHERN PINE, GRADE NO. 2.

SPECIAL REQUIREMENTS FOR COASTAL CONSTRUCTION NOTES:

- 1. TO MEET THE REQUIREMENTS OF ASCE24-14 (FLOOD RESISTANT DESIGN AND CONSTRUCTION), ALL BUILDING ELEMENTS BELOW THE DFE ARE REQUIRED TO MEET THE SPECIFICATIONS OF THIS CODE.
2. FLOOD ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM (NAVD 1988)
FIRM REF #25001C0612J
TOWN OF DENNIS, MA.
FLOOD ZONE=AE
BASE FLOOD ELEV.=+14.0 FT
DESIGN FLOOD ELEVATION (DFE)=BASE FLOOD ELEVATION (BFE) + 2'-0" = 16'-0"
[MINIMUM ELEVATION OF THE LOWEST OCCUPIED FLOOR]
3. SPECIAL PROVISIONS FOR COASTAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS FOUND IN THE "COASTAL CONSTRUCTION MANUAL" AS PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA-55).
4. THE BUILDING STRUCTURE AND COMPONENTS SHALL BE ADEQUATELY ANCHORED TO THE NEW FOUNDATION TO PREVENT FLOATATION, COLLAPSE, AND/OR LATERAL MOVEMENT.
5. THE ENTIRE BUILDING STRUCTURE IS TO BE TIED TOGETHER AT ACT AS A CONTINUOUS, INTEGRAL UNIT USING JOIST ANCHORS, METAL TIES DOWN STRAPS, WELL NAILED PLYWOOD SHEATHING, BOLTS THROUGH BEAMS AND PIERS, ETC.
6. ITEMS SHALL BE RIGIDLY ANCHORED OR ATTACHED, SQUARE, PLUMB AND TRUE, OR ON OTHER PLANES AND SHAPES SHOWN ON THE DRAWINGS. JOINTS SHALL BE TIGHT, EVEN AND FREE OF OFFSETS. SURFACES SHALL BE SANDED, FILLED OR OTHERWISE PREPARED TO RECEIVE FINISH WHERE INDICATED.
7. MATERIAL INSTALLED BELOW THE BASE FLOOD ELEVATION SHALL BE FLOOD-DAMAGE RESISTANT MATERIAL AS DEFINED IN THE COASTAL CONSTRUCTION MANUAL.

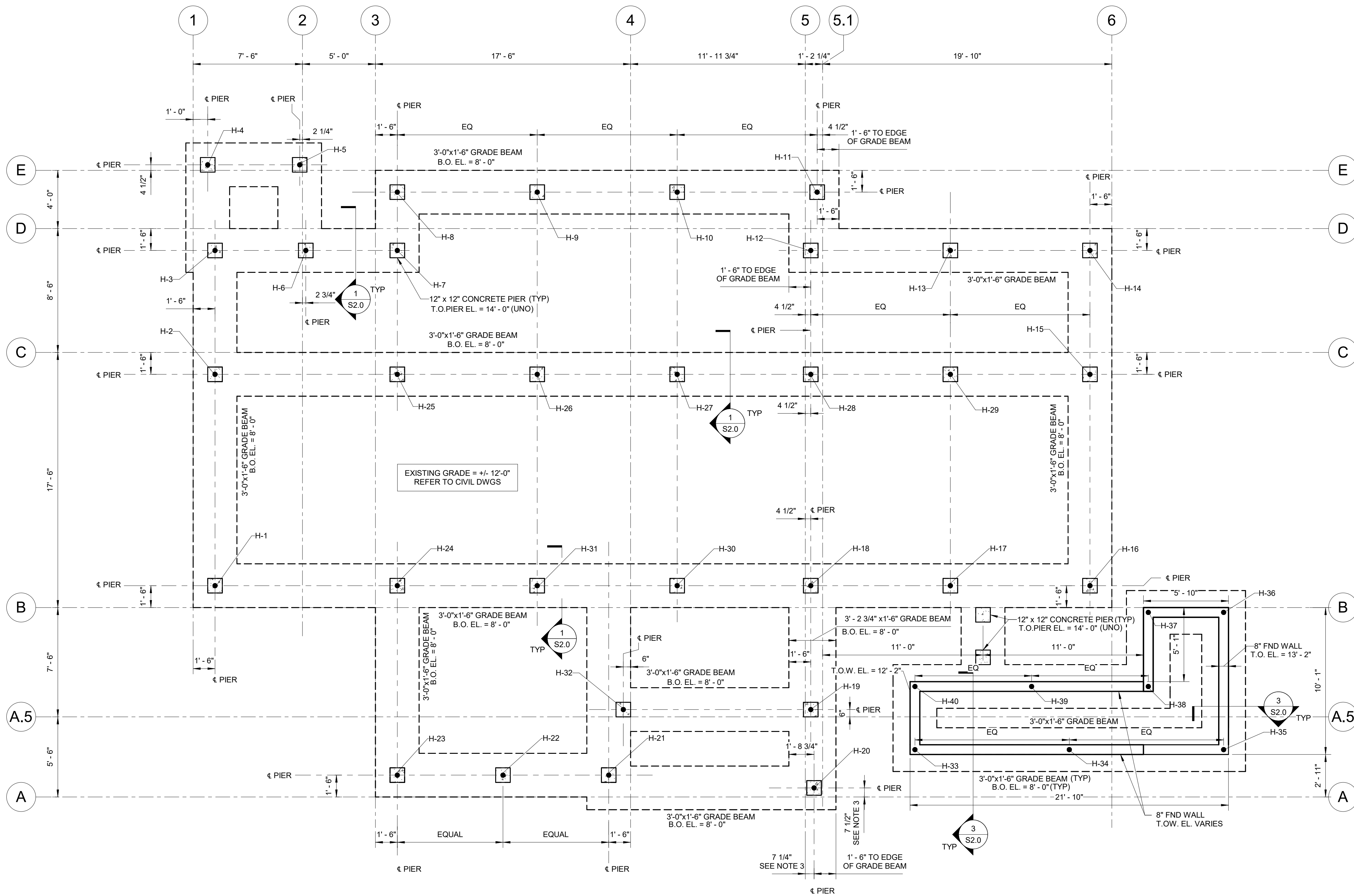
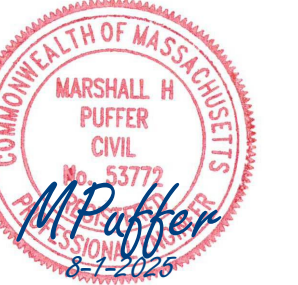
HELICAL PIER FOUNDATION

- 1. REFERENCE GEOTECHNICAL REPORT PREPARED BY "CHG GEOTECHNICAL ENGINEERING" DATED AUGUST 21, 2015 FOR SITE SPECIFIC SUBSURFACE CONDITIONS AND FOUNDATION RECOMMENDATION
2. HELICAL PILES SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH COMMERCIAL BUILDING CODE (IBC-09) WITH AMENDMENTS PER MASSACHUSETTS RESIDENTIAL BUILDING CODE 780-CMR, FOR THE LOCAL JURISDICTION.
3. HELICAL PILES SHALL BE DESIGNED FOR LOADS AND LOAD COMBINATIONS GIVEN ON PLAN. MANUFACTURE SHALL SUBMIT DESIGN PLANS WITH CALCULATIONS STAMPED BY A REGISTERED STRUCTURAL ENGINEER LICENSED IN THE COMMONWEALTH OF MASSACHUSETTS. (SEE GEOTECHNICAL REPORT FOR SUBSURFACE SOILS DESIGN PARAMETERS)
4. HELICAL PILE SYSTEM AND COMPONENTS SHALL BE RECOGNIZED BY ICC. THE MANUFACTURER SHALL HOLD A CURRENT ICC-ES ESR REPORT SHOWING COMPLIANCE WITH AC308 AND CURRENT COMMERCIAL BUILDING CODE (IBC) ADOPTED BY THE LOCAL JURISDICTION.
5. DIMENSIONS OF THE CENTRAL SHAFT AND THE NUMBER, SIZE, SPACING AND THICKNESS OF THE HELICAL BEARING PLATES SHALL BE DESIGNED AND FABRICATED TO SUPPORT THE SPECIFIED DESIGN LOADS.
6. PILE SHAFTS SHALL BE SELECTED TO SUSTAIN LATERAL AND AXIAL LOADS AS DESIGNATED ON PLANS, WITH DUE CONSIDERATION FOR BUCKLING IN THE UPPER SOIL STRATA FROM LIMITED RESTRAINT PROVIDED BY SUB-SOILS IN THE LIQUEFIED STATE DURING EXTREME STORM EVENTS.
7. HELICAL PILE LEAD SECTIONS SHALL CONSIST OF SQUARE SHAFTS, AND HELICAL POLE SHAFT EXTENSIONS SHALL BE ROUND SECTIONS. THE USE OF SQUARE SHAFT EXTENSIONS SHALL NOT BE PERMITTED. STEEL FOR HELICAL PILES SHALL BE NEW AND OF UNIFORM QUALITY.
8. HELICAL PILES, EXTENSIONS, CAPS, CONNECTIONS, AND APPURTENANCES SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.
9. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF THE NEAT CEMENT GROUT SHALL BE 5,000 POUNDS PER SQUARE-INCH (PSI).
10. THE HELICAL PILE INSTALLATION EQUIPMENT SHALL BE CAPABLE OF ACHIEVING THE TORQUE NECESSARY TO INSTALL THE PILES TO THE DESIGN CAPACITY AND TO THE DESIGN EMBEDMENT IN THE NATURAL GLACIAL TILL DEPOSIT, BE SUITABLE FOR THE ACCESS AND OVERHEAD LIMITATIONS, AND SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
11. EACH HELICAL PILE SHALL BE ADVANCED TO A DEPTH SUCH THAT EACH HELICAL BEARING PLATE IS FULLY EMBEDDED WITHIN THE NATURAL GLACIAL TILL DEPOSIT AND TO THE MINIMUM FINAL INSTALLATION TORQUE AS DETERMINED BY A SUCCESSFUL PILE LOAD TEST.
12. THE MINIMUM EMBEDMENT OF EACH HELICAL PILE SHALL BE NO LESS THAN 20'-0" AND SHALL ACHIEVE A MIN LOADING RESISTANCE OF 10 TONS (20 KIPS).
13. THE CONTRACTOR SHALL CONTINUOUSLY MEASURE THE TORQUE APPLIED TO THE HELICAL PILES DURING INSTALLATION USING A CALIBRATED DIRECT TORQUE MONITOR OR ATTACHED TO THE HYDRAULIC INSTALLATION HEAD, A HYDRAULIC PRESSURE GAUGE CALIBRATED TO THE INSTALLATION TORQUE, OR AN APPROVED EQUIVALENT. INSTALLATION SHALL CONTINUE UNTIL THE MINIMUM EMBEDMENT DEPTH AND THE SPECIFIED TORQUE CORRESPONDING TO THE ULTIMATE CAPACITY ARE ACHIEVED.
14. THE ALLOWABLE DESIGN FOR THE HELICAL PILES SHALL BE GREATER OF THE FOLLOWING BUT SHALL NOT BE GREATER THAN 10 TONS (20 KIPS)
-ALLOWABLE DESIGN LOAD BASED ON SETTLEMENT DURING LOADING - FIFTY (50) PERCENT OF THE APPLIED TEST LOAD WHICH CAUSES A GROSS SETTLEMENT AT PILE CUT-OFF GRADE EQUAL TO THE SUM OF:
A) THE THEORETICAL ELASTIC COMPRESSION OF THE PILE IN INCHES, ASSUMING ALL THE LOAD ON THE BUTT IS TRANSMITTED TO THE TIP, PLUS
B) 0.15 INCH, PLUS
C) ONE (1) PERCENT OF THE PILE TIP DIAMETER OR PILE WIDTH IN INCHES, IF THE SETTLEMENTS ARE SO SMALL THAT THE LOAD SETTLEMENT CURVE DOES NOT INTERSECT WITH THE FAILURE CRITERION, THE ALLOWABLE DESIGN LOAD SHALL BE FIFTY (50) PERCENT OF THE MAXIMUM TEST LOAD.
-ALLOWABLE DESIGN LOAD BASED ON NET SETTLEMENT AFTER REBOUND - FIFTY (50) PERCENT OF THE APPLIED TEST LOAD WHICH RESULTS IN A NET SETTLEMENT AT THE TOP OF THE PILE OF 1/2-INCH, AFTER REBOUND FOR A MINIMUM OF ONE HOUR AT ZERO LOAD.
15. CLUSTERED HELICAL PILES AND BATTER PILES MAY BE USED TO OFFSET LATERAL FORCES ON PILE GROUP AT MWFRS FOUNDATIONS. WHERE PILES ARE INSTALLED IN GROUPS, MAINTAIN A MINIMUM SPACING OF THREE TIMES THE LARGEST HELICAL DIAMETER (3 x D or 3'-0").
16. MINIMUM AND MAXIMUM INSTALLATION TORQUES SHALL BE SPECIFIED BY THE HELICAL PILE MANUFACTURER. THE MINIMUM INSTALLATION TORQUE SHALL BE HIGH ENOUGH TO ACHIEVE THE REQUIRED BEARING CAPACITY, INCLUDING A SAFETY FACTOR OF 2. THE MAXIMUM INSTALLATION TORQUE SHALL NOT EXCEED THE ALLOWABLE TORSIONAL CAPACITY OF THE PILE SHAFTS.
17. HELICAL PILES SHALL BE DESIGNED AND MANUFACTURED TO RESIST ALL STRESSES INDUCED BY INSTALLATION.
18. EXISTING CONDITIONS AND UNDERGROUND OBSTRUCTIONS SHALL BE CONFIRMED BY THE PILE INSTALLER. PROBING OR SCANNING MAY BE NECESSARY TO LOCATE UNDERGROUND OBSTRUCTIONS. REPORT ANY UNFORESEEN OBSTRUCTIONS TO THE STRUCTURAL ENGINEER.
19. LOCATIONS OF PILES SHALL NOT BE CHANGED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD (EOR). ADDITIONAL HELICAL PILES AND REDESIGN OF PILE CAP MAY BE REQUIRED IF OBSTRUCTIONS ARE ENCOUNTERED REQUIRING DEVIATION OR OFFSET FROM DESIGNATED LOCATIONS.
20. SUBMIT AS BUILT DRAWINGS SHOWING FINAL LOCATION AND INSTALLATION OF HELICAL PILES ALONG WITH INSTALLATION TORQUE INDICATING COMPLIANCE WITH DESIGN LOAD CRITERIA SPECIFIED ON PLANS.

BREAKAWAY WALLS

- 1. NO PERMANENT MEMBERS SHALL BE PLACED WITHIN 4'-0" OF THE BREAKAWAY WALL WHEN INUNDATION IS EXPECTED.
2. ELECTRICAL CONDUIT AND UTILITIES SHALL NOT BE ATTACHED TO BREAKAWAY WALLS.
3. HINGE ASSEMBLY SHOULD BE MAINTENANCED WHEN NEEDED SUCH THAT IT CAN OPERATE DURING HIGH HAZARD SCENARIOS.
4. MECHANICAL FASTENERS ARE TO BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED IF NOT NOT OTHERWISE NOTED.
5. EXTERIOR FACADE TREATMENTS MAY BE ATTACHED TO BREAKAWAY WALLS SO THAT THE FACADE DOES NOT INHIBIT THE BREAKAWAY CHARACTERISTICS OF THE WALL.
6. HORIZONTAL SEPARATION JOINTS SHALL BE USED AT THE ELEVATED FLOOR LEVEL TO MINIMIZE DAMAGE TO THE ELEVATED STRUCTURE.
7. ALL MATERIALS SUCH AS STUDS, FACADE, SHEATHING, ETC ARE TO BE FLOOD RESISTANT MATERIALS SO THAT THERE IS MINIMAL DAMAGE FOR PROLONGED CONTACT WITH CORROSIVE FLOOD WATERS.
8. INTERIOR WALL SHEATHING OR GYPSUM IS NOT PERMITTED.
9. ALL FRAMING MEMBERS ARE TO BE PRESSURE TREATED IN ACCORDANCE WITH WOOD FRAMING NOTES





**HARBORMASTER HELICAL FOUNDATION PLAN**

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

HELICAL PILE TYPE		
TYPE	DESCRIPTION	USE
TYPE A	SQUARE SHAFT GALV. HELICAL PILE W/ 8-10-12 LEAD CONFIGURATION AND 6"x6"x1/2" CONSTRUCTION CAP. MINIMUM EMBEDMENT IS GREATER OF 20'-0" OR WHAT IS REQUIRED TO ACHIEVE ULTIMATE LOAD. (ULTIMATE LOAD = 2 X SERVICE LOAD) SERVICE LOAD IS 20 KIPS (UNO)	H-1 - H-32: HARBORMASTER BUILDING GH-1 - GH-26: GARAGE BUILDING
TYPE B	SQUARE SHAFT GALV. HELICAL PILE WITH 12 LEAD CONFIGURATION WITH CAP PER ARCHITECTURAL DRAWINGS. MINIMUM EMBEDMENT OF 15'-0" OR WHAT IS REQUIRED TO ACHIEVE ULTIMATE LOAD. (ULTIMATE LOAD = 2 X SERVICE LOAD) SERVICE LOAD IS 10 KIPS U.N.O.	BOARDWALK - REFER TO ARCHITECTURAL DRAWINGS

- FOUNDATION PLAN NOTES:**
- F1. COORDINATE ALL DIMENSIONS, SLOPES, AND ELEVATIONS NOTED ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
  - F2. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, SLOPES, AND ELEVATIONS NOT NOTED ON THE STRUCTURAL DRAWINGS.
  - F3. PROVIDE STAINLESS STEEL HARDWARE AND CONNECTORS AT ALL EXTERIOR CONDITIONS.
  - F4. ALL BUILDING ELEMENTS (STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRIC, ETC.) LOCATED BELOW THE DESIGN FLOOD ELEVATION TO BE FLOOD RESISTANT PER ASCE24-14.
  - F5. PROVIDE HELICAL PILES AS NOTED ON PLANS. HELICAL PILES TO HAVE MINIMUM CLEAR DISTANCE TO EDGE OF PILE CAP (FROM CENTERLINE OF PILE) OF 1'-6". PROVIDE EQUAL SPACING BETWEEN HELICAL PILES. HELICAL PILES SHOWN BELOW CONCRETE PIERS TO BE CENTERED BENEATH THE PIER.
  - F6. SUPPORTING GRADE BEAMS SHOULD BE CENTERED ON PIERS, UNLESS NOTED OTHERWISE.

**ISSUED FOR BIDDING  
NOT FOR CONSTRUCTION**

**SESUIT HARBOR IMPROVEMENTS**

**CATALYST ARCHITECTURE & INTERIORS**

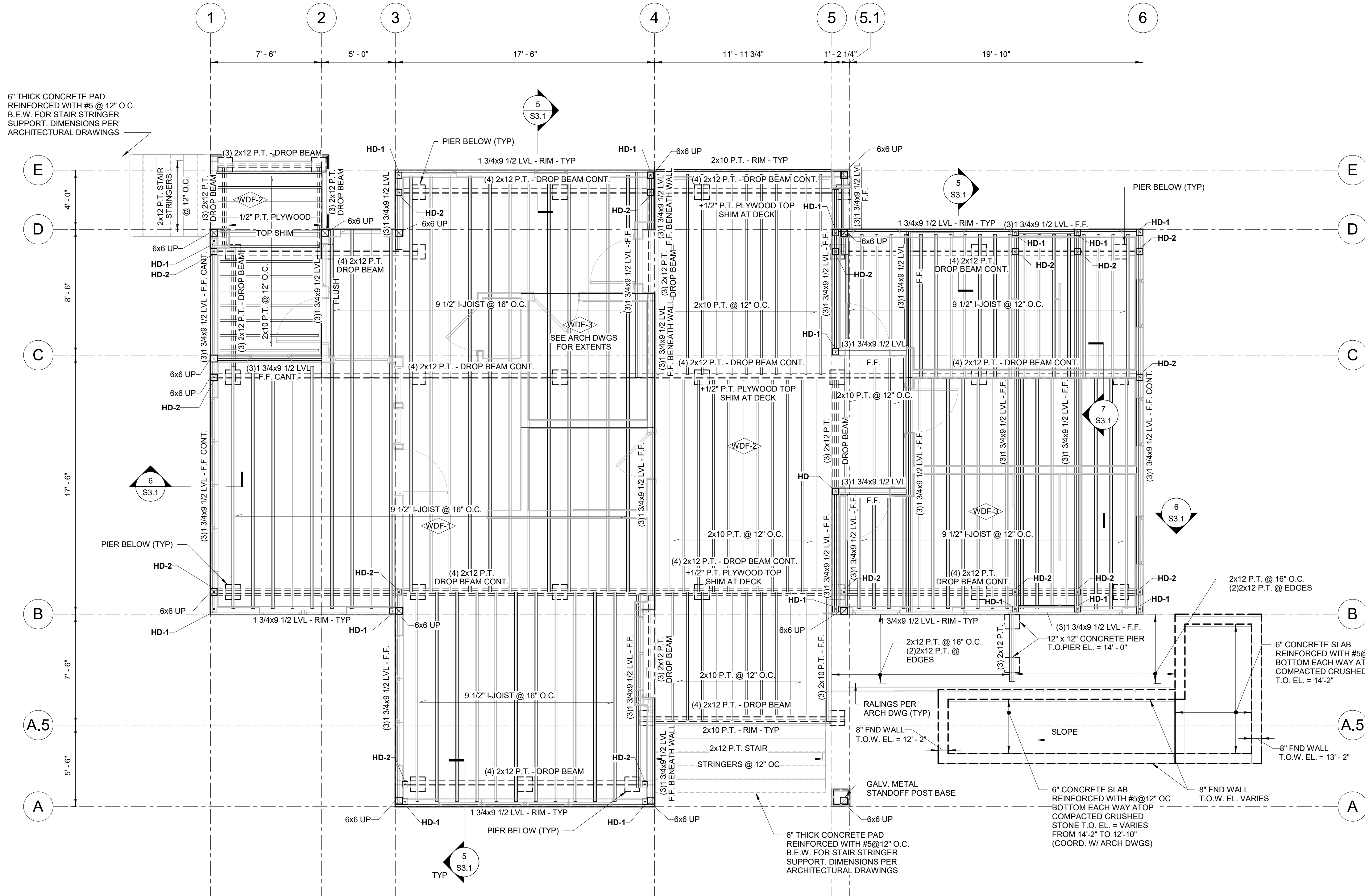
351 SESUIT HARBOR RD  
DENNIS, MA 02660

MARK	DATE	DESCRIPTION
PROJECT NO:	C19676.01	
DATE:	08/01/2025	
FILE:	C19676.01-S1.0	
DRAWN BY:	JWH	
DESIGNED/CHECKED BY:	EJM/MHP	
APPROVED BY:	JAB	

**HARBORMASTER HELICAL FOUNDATION PLAN**

SCALE: AS SHOWN

**S1.0**



**HARBORMASTER MAIN FLOOR FRAMING PLAN**

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

**HEADER SCHEDULE AT BEARING & SHEAR WALLS**

MAX SPAN	HEADER TYPE	JACK STUD(S)	KING STUD(S)
3' - 0"	(2)2x10	(2)2x	2x
6' - 0"	(2)1-3/4x 9-1/2 LVL	(2)2x	(2)2x
9' - 0"	(3)1-3/4x9-1/2 LVL	(2)2x	(2)2x
12' - 0"	(3)1-3/4x11-7/8 LVL	(3)2x	(2)2x

NOTES:  
 1. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING LOCATIONS, PROVIDE AS REQUIRED.  
 2. SPANS ARE MEASURED FROM CENTER OF JACK STUD (S).  
 3. JACK & KING STUDS TO MATCH THE THICKNESS OF THE TYPICAL WALL STUDS.  
 4. PROVIDE PLYWOOD SPACERS AS NEEDED.

**HEADER SCHEDULE AT NON-BEARING WALLS**

MAX SPAN	HEADER TYPE	JACK STUD(S)	KING STUD(S)
3' - 0"	(2)2x6	2x	2x
6' - 0"	(2)2x8	2x	2x
9' - 0"	(2)2x10	(2)2x	(2)2x
12' - 0"	(3)2x10	(2)2x	(2)2x

NOTES:  
 1. SCHEDULE IS FOR NON-BEARING WALLS ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING LOCATIONS, PROVIDE AS REQUIRED.  
 2. SPANS ARE MEASURED FROM CENTER OF JACK STUD (S).  
 3. JACK & KING STUDS TO MATCH THE THICKNESS OF THE TYPICAL WALL STUDS.  
 4. PROVIDE PLYWOOD SPACERS AS NEEDED.

**HARBORMASTER BUILDING - FLOOR DIAPHRAGM SCHEDULE**

MARK	LOCATION	ELEVATION AT TOP	TYPE	FASTENING
WDF-1	MAIN FLOOR	16' - 0"	TWO LAYERS OF 3/4" APA RATED STRUC 1 T&G PLYWOOD SHEATHING	10d COMMON NAILING @ 6" O.C. AT EDGES AND 12" O.C. IN FIELD
WDF-2	MAIN FLOOR	16' - 0"	DECKING PER ARCHITECTURAL DRAWINGS	PER ARCHITECTURAL DRAWINGS
WDF-3	PER PLAN	15' - 11 1/4"	TWO LAYERS OF 3/4" APA RATED STRUC 1 T&G PLYWOOD SHEATHING PLUS EPOXY TOPPING/TILE PER ARCH DWGS	10d COMMON NAILING @ 4" O.C. AT EDGES AND 12" O.C. IN FIELD
WDR-1	ROOF	<varies>	5/8" APA CDX RATED PLYWOOD SHEATHING	10d COMMON NAILING @ 6" O.C. ON EDGES AND 12" O.C. IN FIELD

- FRAMING NOTES:**
- FR1. COORDINATE ALL DIMENSIONS, SLOPES, AND ELEVATIONS NOTED ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. IF CONFLICTS ARE FOUND, THE ARCHITECTURAL DRAWINGS SHALL CONTROL.
  - FR2. POST LOCATIONS SHOWN ON PLANS. POSTS TO BE LOCATED IN WALLS, U.N.O.
  - FR3. PROVIDED STAINLESS STEEL HARDWARE AND CONNECTORS AT ALL EXTERIOR CONDITIONS.
  - FR4. PROVIDE GALVANIZED OR STAINLESS STEEL FACE MOUNT JOIST OR TRUSS HANGERS ALL FLUSH FRAMED SUPPORT CONDITIONS.
  - FR5. PROVIDE METAL POST BASES AND CAPS AT ALL SUPPORT CONDITIONS.
  - FR6. WALLS TO HAVE SINGLE BOTTOM PLATE AND DOUBLE TOP PLATE, TYPICAL.
  - FR7. PROVIDE 1/2" P.T. PLYWOOD BENEATH ALL FLOOR JOISTS SECURED WITH 8d NAILS @ 12" O.C.
  - FR8. PROVIDE LIGHT GAUGE RIDGE STRAPS AT 32" O.C.
  - FR9. COORDINATE ROOF PENETRATIONS WITH ARCHITECTURAL AND MEP DRAWINGS.
  - FR10. UPLIFT CONNECTORS TO BE PROVIDED AT ALL TRUSS/RAFTER CONNECTIONS TO WOOD TOP PLATE/BEAM.

- LATERAL FRAMING NOTES:**
- LF1. ALL EXTERIOR WALLS TO BE 2x6 STUD WALL @ 16" O.C. (UNO) w/15/32" APA RATED PLYWOOD ON ONE SIDE OF THE WALL WITH PROVIDE 2x BLOCKING BETWEEN STUDS W/ 10d COMMON NAILS @ 6" O.C. AT EDGES AND 12" O.C. IN FIELD.
  - LF2. EXTERIOR SHEARWALLS SHALL HAVE (3) 2x6 MINIMUM AT ENDS OF ALL SHEARWALLS. AT ALL HD-1 AS NOTED ON PLANS
  - LF3. "HD-1" INDICATES TWO 7 GAUGE (MINIMUM) LIGHT GAUGE STEEL STRAP SET EACH SIDE OF A 6x6 POST WITH A COMBINED UPLIFT CAPACITY OF 3,000 LBS MINIMUM (NOTCH BEAM/POST AS REQUIRED)
  - LF4. "HD-2" INDICATES FOUR UPLIFT CONNECTORS WITH A COMBINED CAPACITY OF 3,000 LBS MINIMUM.

**ISSUED FOR BIDDING NOT FOR CONSTRUCTION**

**SESUIT HARBOR IMPROVEMENTS**

**CATALYST ARCHITECTURE & INTERIORS**

351 SESUIT HARBOR RD DENNIS, MA 02660

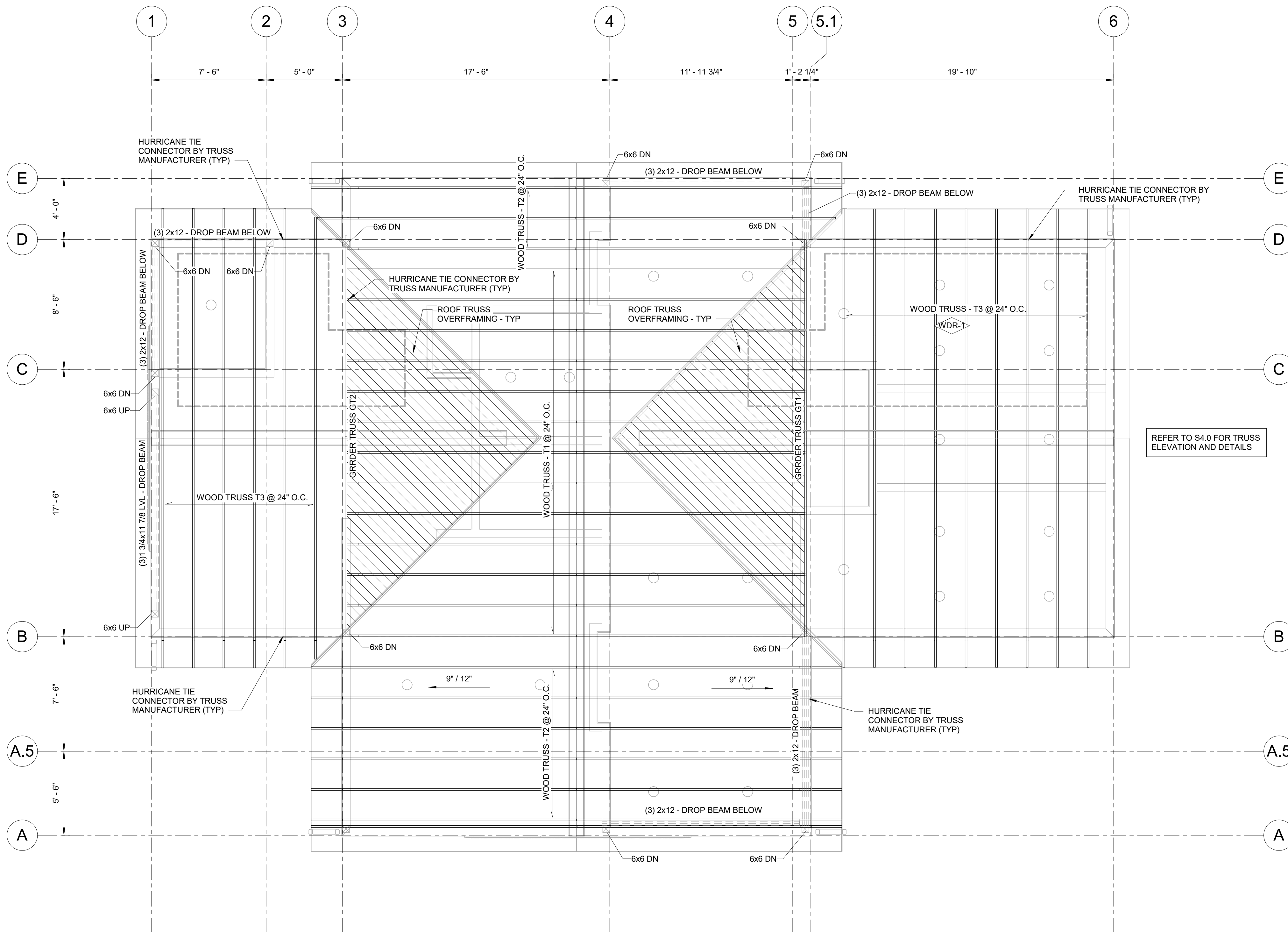
MARK	DATE	DESCRIPTION
PROJECT NO:	C19676.01	
DATE:	08/01/2025	
FILE:	C19676.01-S1.1	
DRAWN BY:	JWH	
DESIGNED/CHECKED BY:	EJM/MHP	
APPROVED BY:	JAB	

HARBORMASTER MAIN FLOOR FRAMING PLAN

SCALE: NO SCALE

S1.1

Last Saved: 7/22/2025 11:57:27 By: JWH  
 Plotted On: 7/22/2025 11:57:27  
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**HARBORMASTER ROOF FRAMING PLAN**  
SCALE: 1/4" = 1'-0"

**FRAMING NOTES:**

FR1. COORDINATE ALL DIMENSIONS, SLOPES, AND ELEVATIONS NOTED ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. IF CONFLICTS ARE FOUND, THE ARCHITECTURAL DRAWINGS SHALL CONTROL.

FR2. POST LOCATIONS SHOWN ON PLANS. POSTS TO BE LOCATED IN WALLS, U.N.O.

FR3. PROVIDED STAINLESS STEEL HARDWARE AND CONNECTORS AT ALL EXTERIOR CONDITIONS.

FR4. PROVIDE GALVANIZED OR STAINLESS STEEL FACE MOUNT JOIST OR TRUSS HANGERS ALL FLUSH FRAMED SUPPORT CONDITIONS.

FR5. PROVIDE METAL POST BASES AND CAPS AT ALL SUPPORT CONDITIONS.

FR6. WALLS TO HAVE SINGLE BOTTOM PLATE AND DOUBLE TOP PLATE, TYPICAL.

FR7. PROVIDE 1/2" P.T. PLYWOOD BENEATH ALL FLOOR JOISTS SECURED WITH 8d NAILS @ 12" O.C.

FR8. PROVIDE LIGHT GAUGE RIDGE STRAPS AT 32" O.C.

FR9. COORDINATE ROOF PENETRATIONS WITH ARCHITECTURAL AND MEP DRAWINGS.

FR10. UPLIFT CONNECTORS TO BE PROVIDED AT ALL TRUSS/RAFTER CONNECTIONS TO WOOD TOP PLATE/BEAM.

**LATERAL FRAMING NOTES:**

LF1. ALL EXTERIOR WALLS TO BE 2x6 STUD WALL @ 16" O.C. (UNO) w/15/32" APA RATED PLYWOOD ON ONE SIDE OF THE WALL WITH PROVIDE 2x BLOCKING BETWEEN STUDS W/ 10d COMMON NAILS @ 6" O.C. AT EDGES AND 12" O.C. IN FIELD.

LF2. EXTERIOR SHEARWALLS SHALL HAVE (3) 2x6 MINIMUM AT ENDS OF ALL SHEARWALLS. AT ALL HD-1 AS NOTED ON PLANS

LF3. "HD-1" INDICATES TWO 7 GAUGE (MINIMUM) LIGHT GAUGE STEEL STRAP SET EACH SIDE OF A 6x6 POST WITH A COMBINED UPLIFT CAPACITY OF 3,000 LBS MINIMUM (NOTCH BEAM/POST AS REQUIRED)

LF4. "HD-2" INDICATES FOUR UPLIFT CONNECTORS WITH A COMBINED CAPACITY OF 3,000 LBS MINIMUM.

**HEADER SCHEDULE AT BEARING & SHEAR WALLS**

MAX SPAN	HEADER TYPE	JACK STUD(S)	KING STUD(S)
3' - 0"	(2)2x10	(2)2x	2x
6' - 0"	(2)1-3/4x9-1/2 LVL	(2)2x	(2)2x
9' - 0"	(3)1-3/4x9-1/2 LVL	(2)2x	(2)2x
12' - 0"	(3)1-3/4x11-7/8 LVL	(3)2x	(2)2x

**NOTES:**

- REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING LOCATIONS, PROVIDE AS REQUIRED.
- SPANS ARE MEASURED FROM CENTER OF JACK STUD (S).
- JACK & KING STUDS TO MATCH THE THICKNESS OF THE TYPICAL WALL STUDS.
- PROVIDE PLYWOOD SPACERS AS NEEDED.

**HEADER SCHEDULE AT NON-BEARING WALLS**

MAX SPAN	HEADER TYPE	JACK STUD(S)	KING STUD(S)
3' - 0"	(2)2x6	2x	2x
6' - 0"	(2)2x8	2x	2x
9' - 0"	(2)2x10	(2)2x	(2)2x
12' - 0"	(3)2x10	(2)2x	(2)2x

**NOTES:**

- SCHEDULE IS FOR NON-BEARING WALLS ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING LOCATIONS, PROVIDE AS REQUIRED.
- SPANS ARE MEASURED FROM CENTER OF JACK STUD (S).
- JACK & KING STUDS TO MATCH THE THICKNESS OF THE TYPICAL WALL STUDS.
- PROVIDE PLYWOOD SPACERS AS NEEDED.

**HARBORMASTER BUILDING - FLOOR DIAPHRAGM SCHEDULE**

MARK	LOCATION	ELEVATION AT TOP	TYPE	FASTENING
WDF-1	MAIN FLOOR	16' - 0"	TWO LAYERS OF 3/4" APA RATED STRUC 1 T&G PLYWOOD SHEATHING	10d COMMON NAILING @ 6" O.C. AT EDGES AND 12" O.C. IN FIELD
WDF-2	MAIN FLOOR	16' - 0"	DECKING PER ARCHITECTURAL DRAWINGS	PER ARCHITECTURAL DRAWINGS
WDF-3	PER PLAN	15' - 11 1/4"	TWO LAYERS OF 3/4" APA RATED STRUC 1 T&G PLYWOOD SHEATHING PLUS EPOXY TOPPING/TILE PER ARCH DWGS	10d COMMON NAILING @ 4" O.C. AT EDGES AND 12" O.C. IN FIELD
WDR-1	ROOF	<varies>	5/8" APA CDX RATED PLYWOOD SHEATHING	10d COMMON NAILING @ 6" O.C. ON EDGES AND 12" O.C. IN FIELD

**WOOD ROOF TRUSS DESIGN NOTES:**

WT1. LOADS PROVIDED IN THE NOTES BELOW ARE INTENDED ONLY TO BE USED FOR REFERENCE. LOADS SHOULD BE VERIFIED BY THE TRUSS DESIGN ENGINEER. REFER TO THE SPECIFICATIONS FOR ADDITIONAL TRUSS DESIGN REQUIREMENTS.

WT2. ALL LOADS AND LOAD COMBINATIONS SHALL BE IN ACCORDANCE WITH THE 9th EDITION OF THE MASSACHUSETTS STATE BUILDING CODE.

WT3. TRUSS DESIGN ENGINEER SHALL SUBMIT STAMPED AND SIGNED CALCULATIONS AND ROOF TRUSS LAYOUT FOR REVIEW BY THE ARCHITECT AND ENGINEER OF RECORD.

WT4. TRUSSES SHALL BE DESIGNED FOR A MINIMUM OF:

- A. TOP CHORD DEAD LOAD OF 15 PSF.
- B. ADDITIONAL TOP CHORD DEAD LOAD OF 3 PSF AT PHOTOVOLTAIC PANELS ONLY. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- C. BOTTOM CHORD DEAD LOAD OF 10 PSF.
- D. ADDITIONAL BOTTOM CHORD DEAD LOAD OF 20 PSF AT MAINTENANCE CATWALKS.
- E. GROUND SNOW LOAD OF 30 PSF.
- F. MINIMUM ROOF LIVE LOAD OF 20 PSF.
- G. WIND UPLIFT PER CODE.

WT5. TRUSS GIRDERS SHALL BE DESIGNED FOR ALL LOADS FROM ATTACHED TRUSSES AND OTHER FRAMING MEMBERS.

WT6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, SLOPES, AND ELEVATIONS NOT NOTED ON THIS PLAN.

WT7. 4'-0" WIDE (HEIGHT MAXIMIZED) CATWALK IS TO BE PROVIDED AS INDICATED ON THE STRUCTURAL DRAWINGS. INTERNAL WEB MEMBERS ARE TO BE AVOIDED IN THE CATWALK WHERE POSSIBLE.

WT8. COORDINATE OPENINGS IN INTERNAL TRUSS MEMBERS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. LOCATIONS NOTED ON THE STRUCTURAL DRAWINGS ARE MERELY TO ASSIST IN COORDINATION AND SHOULD NOT TO BE USED FOR FINAL DESIGN.

WT9. UPLIFT CONNECTORS AT TRUSS BEARING POINTS TO BE DESIGNED BY THE TRUSS DESIGNER.

WT10. PROVIDE SHEATHING OVER MAIN TRUSSES SHOWN ON PLAN. OVER FRAMING TO BE PLACED ON THE STRUCTURAL SHEATHING AS REQUIRED.

**ISSUED FOR BIDDING NOT FOR CONSTRUCTION**

**SESUIT HARBOR IMPROVEMENTS**

**CATALYST ARCHITECTURE & INTERIORS**

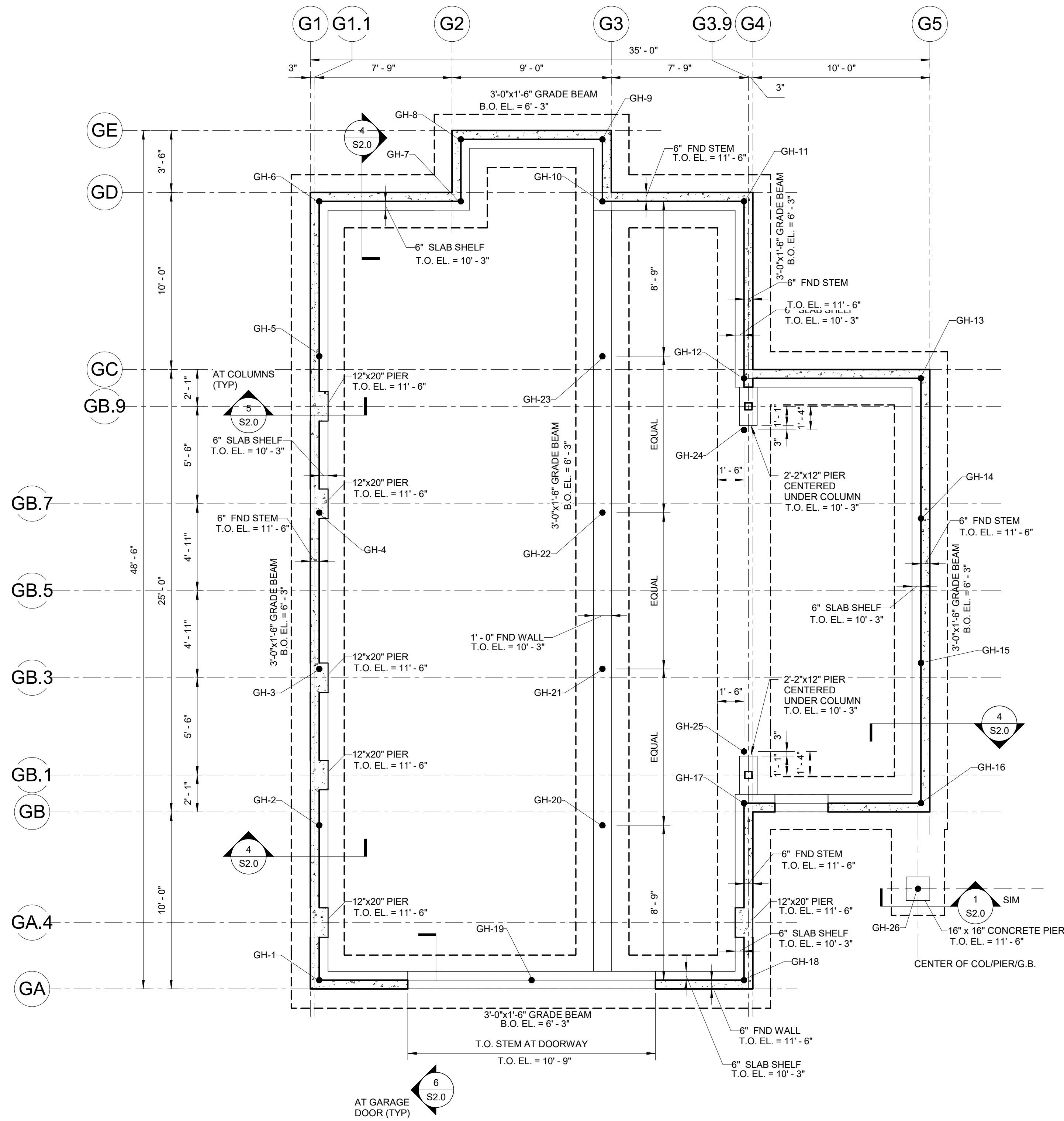
351 SESUIT HARBOR RD  
DENNIS, MA 02660

MARK	DATE	DESCRIPTION
PROJECT NO:	C19676.01	
DATE:	08/01/2025	
FILE:	C19676.01-S1.2	
DRAWN BY:	JWH	
DESIGNED/CHECKED BY:	EJM/MHP	
APPROVED BY:	JAB	

**HARBORMASTER ROOF FRAMING PLAN**

SCALE: AS SHOWN

**S1.2**



**HARBORMASTER GARAGE FOUNDATION PLAN**

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

HELICAL PILE TYPE		
TYPE	DESCRIPTION	USE
TYPE A	SQUARE SHAFT GALV. HELICAL PILE W/ 8-10-12 LEAD CONFIGURATION AND 6"x6"x1/2" CONSTRUCTION CAP. MINIMUM EMBEDMENT IS GREATER OF 20'-0" OR WHAT IS REQUIRED TO ACHIEVE ULTIMATE LOAD. (ULTIMATE LOAD = 2 X SERVICE LOAD) SERVICE LOAD IS 20 KIPS (UNO)	H-1 - H32: HARBORMASTER BUILDING GH-1 - GH-26: GARAGE BUILDING
TYPE B	SQUARE SHAFT GALV. HELICAL PILE WITH 12 LEAD CONFIGURATION WITH CAP PER ARCHITECTURAL DRAWINGS. MINIMUM EMBEDMENT OF 15'-0" OR WHAT IS REQUIRED TO ACHIEVE ULTIMATE LOAD. (ULTIMATE LOAD = 2 X SERVICE LOAD) SERVICE LOAD IS 10 KIPS U.N.O.	BOARDWALK - REFER TO ARCHITECTURAL DRAWINGS

**FOUNDATION PLAN NOTES:**

- F1. COORDINATE ALL DIMENSIONS, SLOPES, AND ELEVATIONS NOTED ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- F2. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, SLOPES, AND ELEVATIONS NOT NOTED ON THE STRUCTURAL DRAWINGS.
- F3. PROVIDE STAINLESS STEEL HARDWARE AND CONNECTORS AT ALL EXTERIOR CONDITIONS.
- F4. ALL BUILDING ELEMENTS (STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRIC, ETC.) LOCATED BELOW THE DESIGN FLOOD ELEVATION TO BE FLOOD RESISTANT PER ASCE24-14.
- F5. PROVIDE HELICAL PILES AS NOTED ON PLANS. HELICAL PILES TO HAVE MINIMUM CLEAR DISTANCE TO EDGE OF PILE CAP (FROM CENTERLINE OF PILE) OF 1'-6". PROVIDE EQUAL SPACING BETWEEN HELICAL PILES. HELICAL PILES SHOWN BELOW CONCRETE PIERS TO BE CENTERED BENEATH THE PIER.
- F6. SUPPORTING GRADE BEAMS SHOULD BE CENTERED ON PIERS, UNLESS NOTED OTHERWISE.

**ISSUED FOR BIDDING  
NOT FOR CONSTRUCTION**

**SESUIT HARBOR IMPROVEMENTS**

**CATALYST ARCHITECTURE & INTERIORS**

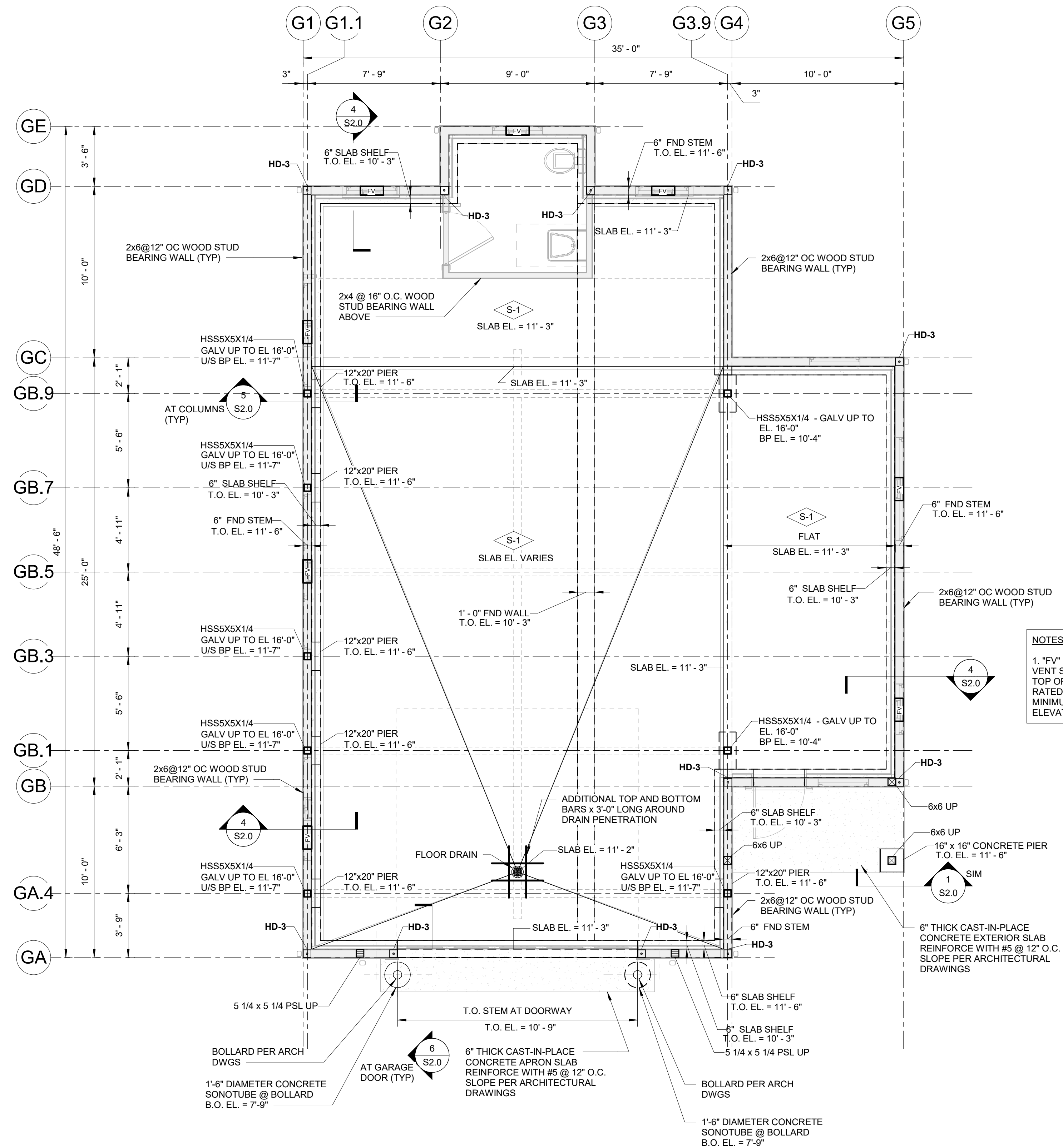
351 SESUIT HARBOR RD  
DENNIS, MA 02660

MARK	DATE	DESCRIPTION
PROJECT NO:	C19676.01	
DATE:	08/01/2025	
FILE:	C19676.01-S1.3	
DRAWN BY:	JWH	
DESIGNED/CHECKED BY:	EJM/MHP	
APPROVED BY:	JAB	

**HARBORMASTER GARAGE FOUNDATION PLAN**

SCALE: AS SHOWN

**S1.3**



**NOTES:**  
 1. "FV" INDICATES INSULATED FLOOD VENT SET IN THE STUD WALL AT THE TOP OF THE FOUNDATION WALL RATED FOR 200 SQUARE FEET MINIMUM. MAXIMUM B.O. VENT ELEVATION = 12'-0"

SLAB-ON-GRADE SCHEDULE			
MARK	ELEVATION	DESCRIPTION	NOTES
S-1	FIRST FLOOR - PER PLAN	12" (10" MIN) CONCRETE SLAB REINFORCED W/ #5@12" O.C. TOP EACH WAY & #4@12" O.C. BOTTOM EACH WAY ATOP 10 MIL VAPOR BARRIER, 2" RIGID INSULATION & COMPACTED CRUSHED STONE	REFER TO DETAILS FOR ADDITIONAL REINFORCING

- FOUNDATION PLAN NOTES:**
- F1. COORDINATE ALL DIMENSIONS, SLOPES, AND ELEVATIONS NOTED ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
  - F2. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, SLOPES, AND ELEVATIONS NOT NOTED ON THE STRUCTURAL DRAWINGS.
  - F3. PROVIDE STAINLESS STEEL HARDWARE AND CONNECTORS AT ALL EXTERIOR CONDITIONS.
  - F4. ALL BUILDING ELEMENTS (STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRIC, ETC.) LOCATED BELOW THE DESIGN FLOOD ELEVATION TO BE FLOOD RESISTANT PER ASCE24-14.
  - F5. PROVIDE HELICAL PILES AS NOTED ON PLANS. HELICAL PILES TO HAVE MINIMUM CLEAR DISTANCE TO EDGE OF PILE CAP (FROM CENTERLINE OF PILE) OF 1'-6". PROVIDE EQUAL SPACING BETWEEN HELICAL PILES. HELICAL PILES SHOWN BELOW CONCRETE PIERS TO BE CENTERED BENEATH THE PIER.
  - F6. SUPPORTING GRADE BEAMS SHOULD BE CENTERED ON PIERS, UNLESS NOTED OTHERWISE.

**HARBORMASTER GARAGE SLAB PLAN**  
 SCALE: 1/4" = 1'-0"

**ISSUED FOR BIDDING  
 NOT FOR CONSTRUCTION**

**SESUIT HARBOR IMPROVEMENTS**

**CATALYST ARCHITECTURE & INTERIORS**

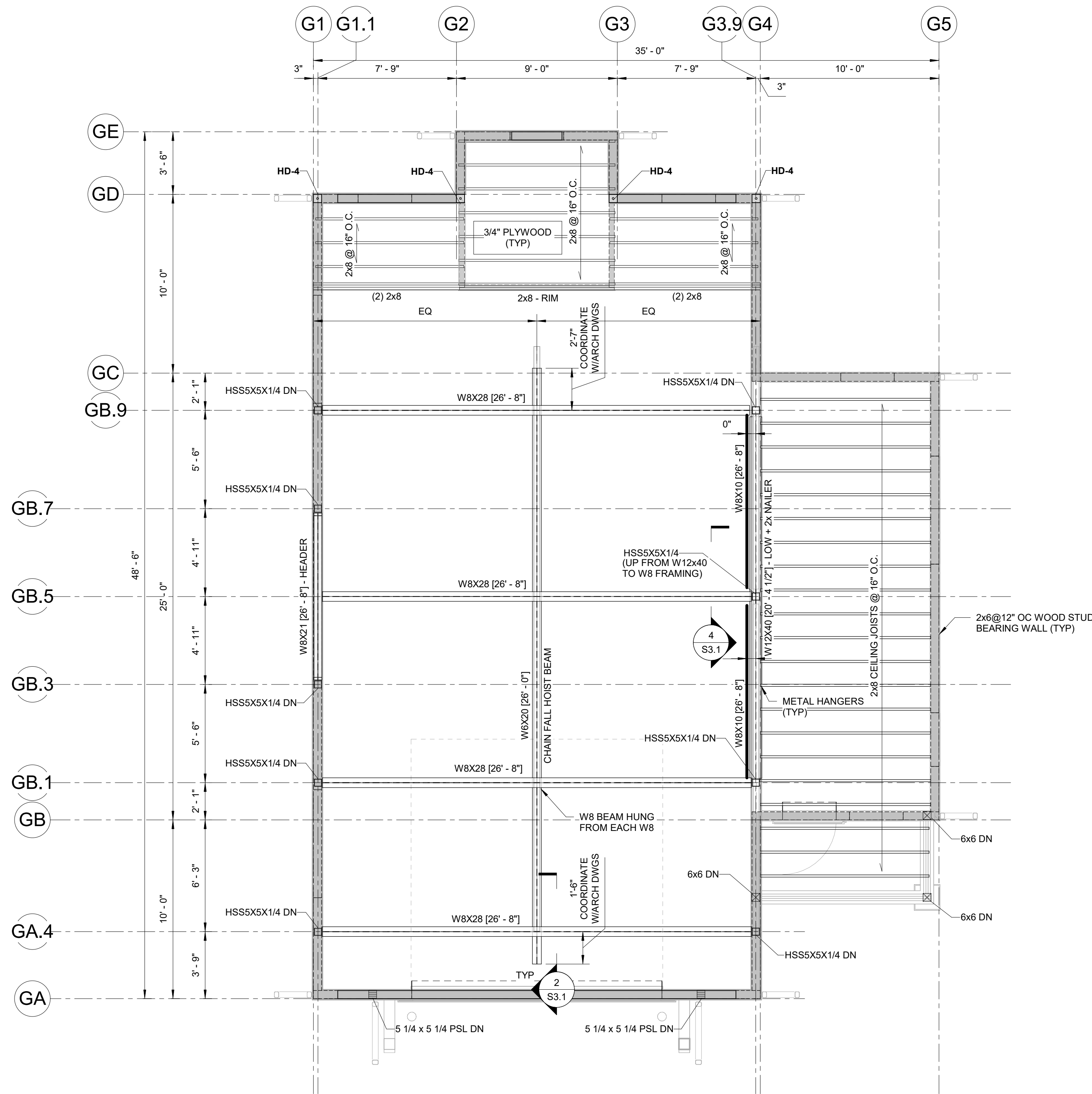
351 SESUIT HARBOR RD  
 DENNIS, MA 02660

MARK	DATE	DESCRIPTION
PROJECT NO:	C19676.01	
DATE:	08/01/2025	
FILE:	C19676.01-S1.4	
DRAWN BY:	JWH	
DESIGNED/CHECKED BY:	EJM/MHP	
APPROVED BY:	JAB	

HARBORMASTER GARAGE  
 SLAB PLAN

SCALE: AS SHOWN

**S1.4**



**HARBORMASTER GARAGE HOIST AND CEILING FRAMING PLAN**

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

**HARBORMASTER BUILDING - FLOOR DIAPHRAGM SCHEDULE**

MARK	LOCATION	ELEVATION AT TOP	TYPE	FASTENING
WDF-1	MAIN FLOOR	16' - 0"	TWO LAYERS OF 3/4" APA RATED STRUC 1 T&G PLYWOOD SHEATHING	10d COMMON NAILING @ 6" O.C. AT EDGES AND 12" O.C. IN FIELD
WDF-2	MAIN FLOOR	16' - 0"	DECKING PER ARCHITECTURAL DRAWINGS	PER ARCHITECTURAL DRAWINGS
WDF-3	PER PLAN	15' - 11 1/4"	TWO LAYERS OF 3/4" APA RATED STRUC 1 T&G PLYWOOD SHEATHING PLUS EPOXY TOPPING/TILE PER ARCH DWGS	10d COMMON NAILING @ 4" O.C. AT EDGES AND 12" O.C. IN FIELD
WDR-1	ROOF	<varies>	5/8" APA CDX RATED PLYWOOD SHEATHING	10d COMMON NAILING @ 6" O.C. ON EDGES AND 12" O.C. IN FIELD

**FRAMING NOTES:**

- FR1. COORDINATE ALL DIMENSIONS, SLOPES, AND ELEVATIONS NOTED ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. IF CONFLICTS ARE FOUND, THE ARCHITECTURAL DRAWINGS SHALL CONTROL.
- FR2. POST LOCATIONS SHOWN ON PLANS. POSTS TO BE LOCATED IN WALLS, U.N.O.
- FR3. PROVIDED STAINLESS STEEL HARDWARE AND CONNECTORS AT ALL EXTERIOR CONDITIONS.
- FR4. PROVIDE GALVANIZED OR STAINLESS STEEL FACE MOUNT JOIST OR TRUSS HANGERS ALL FLUSH FRAMED SUPPORT CONDITIONS.
- FR5. PROVIDE METAL POST BASES AND CAPS AT ALL SUPPORT CONDITIONS.
- FR6. WALLS TO HAVE SINGLE BOTTOM PLATE AND DOUBLE TOP PLATE, TYPICAL.
- FR7. PROVIDE 1/2" P.T. PLYWOOD BENEATH ALL FLOOR JOISTS SECURED WITH 8d NAILS @ 12" O.C.
- FR8. PROVIDE LIGHT GAUGE RIDGE STRAPS AT 32" O.C.
- FR9. COORDINATE ROOF PENETRATIONS WITH ARCHITECTURAL AND MEP DRAWINGS.
- FR10. UPLIFT CONNECTORS TO BE PROVIDED AT ALL TRUSS/RAFTER CONNECTIONS TO WOOD TOP PLATE/BEAM.

**LATERAL FRAMING NOTES:**

- LF1. ALL EXTERIOR WALLS TO BE 2x6 STUD WALL @ 16" O.C. (UNO) w/15/32" APA RATED PLYWOOD ON ONE SIDE OF THE WALL WITH PROVIDE 2x BLOCKING BETWEEN STUDS W/ 10d COMMON NAILS @ 6" O.C. AT EDGES AND 12" O.C. IN FIELD.
- LF2. EXTERIOR SHEARWALLS SHALL HAVE (3) 2x6 MINIMUM AT ENDS OF ALL SHEARWALLS. AT ALL HD-1 AS NOTED ON PLANS
- LF3. "HD-1" INDICATES TWO 7 GAUGE (MINIMUM) LIGHT GAUGE STEEL STRAP SET EACH SIDE OF A 6x6 POST WITH A COMBINED UPLIFT CAPACITY OF 3,000 LBS MINIMUM (NOTCH BEAM/POST AS REQUIRED)
- LF4. "HD-2" INDICATES FOUR UPLIFT CONNECTORS WITH A COMBINED CAPACITY OF 3,000 LBS MINIMUM.

**ISSUED FOR BIDDING  
NOT FOR CONSTRUCTION**

**SESUIT HARBOR IMPROVEMENTS**

**CATALYST ARCHITECTURE & INTERIORS**

351 SESUIT HARBOR RD  
DENNIS, MA 02660

MARK	DATE	DESCRIPTION
PROJECT NO:	C19676.01	
DATE:	08/01/2025	
FILE:	C19676.01-S1.5	
DRAWN BY:	JWH	
DESIGNED/CHECKED BY:	EJM/MHP	
APPROVED BY:	JAB	

**HARBORMASTER GARAGE HOIST AND CEILING FRAMING PLAN**

SCALE: AS SHOWN



**HEADER SCHEDULE AT NON-BEARING WALLS**

MAX SPAN	HEADER TYPE	JACK STUD(S)	KING STUD(S)
3' - 0"	(2)2x6	2x	2x
6' - 0"	(2)2x8	2x	2x
9' - 0"	(2)2x10	(2)2x	(2)2x
12' - 0"	(3)2x10	(2)2x	(2)2x

**NOTES:**  
 1. SCHEDULE IS FOR NON-BEARING WALLS ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING LOCATIONS, PROVIDE AS REQUIRED.  
 2. SPANS ARE MEASURED FROM CENTER OF JACK STUD (S).  
 3. JACK & KING STUDS TO MATCH THE THICKNESS OF THE TYPICAL WALL STUDS.  
 4. PROVIDE PLYWOOD SPACERS AS NEEDED.

**HEADER SCHEDULE AT BEARING & SHEAR WALLS**

MAX SPAN	HEADER TYPE	JACK STUD(S)	KING STUD(S)
3' - 0"	(2)2x10	(2)2x	2x
6' - 0"	(2)1-3/4x 9-1/2 LVL	(2)2x	(2)2x
9' - 0"	(3)1-3/4x9-1/2 LVL	(2)2x	(2)2x
12' - 0"	(3)1-3/4x11-7/8 LVL	(3)2x	(2)2x

**NOTES:**  
 1. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING LOCATIONS, PROVIDE AS REQUIRED.  
 2. SPANS ARE MEASURED FROM CENTER OF JACK STUD (S).  
 3. JACK & KING STUDS TO MATCH THE THICKNESS OF THE TYPICAL WALL STUDS.  
 4. PROVIDE PLYWOOD SPACERS AS NEEDED.

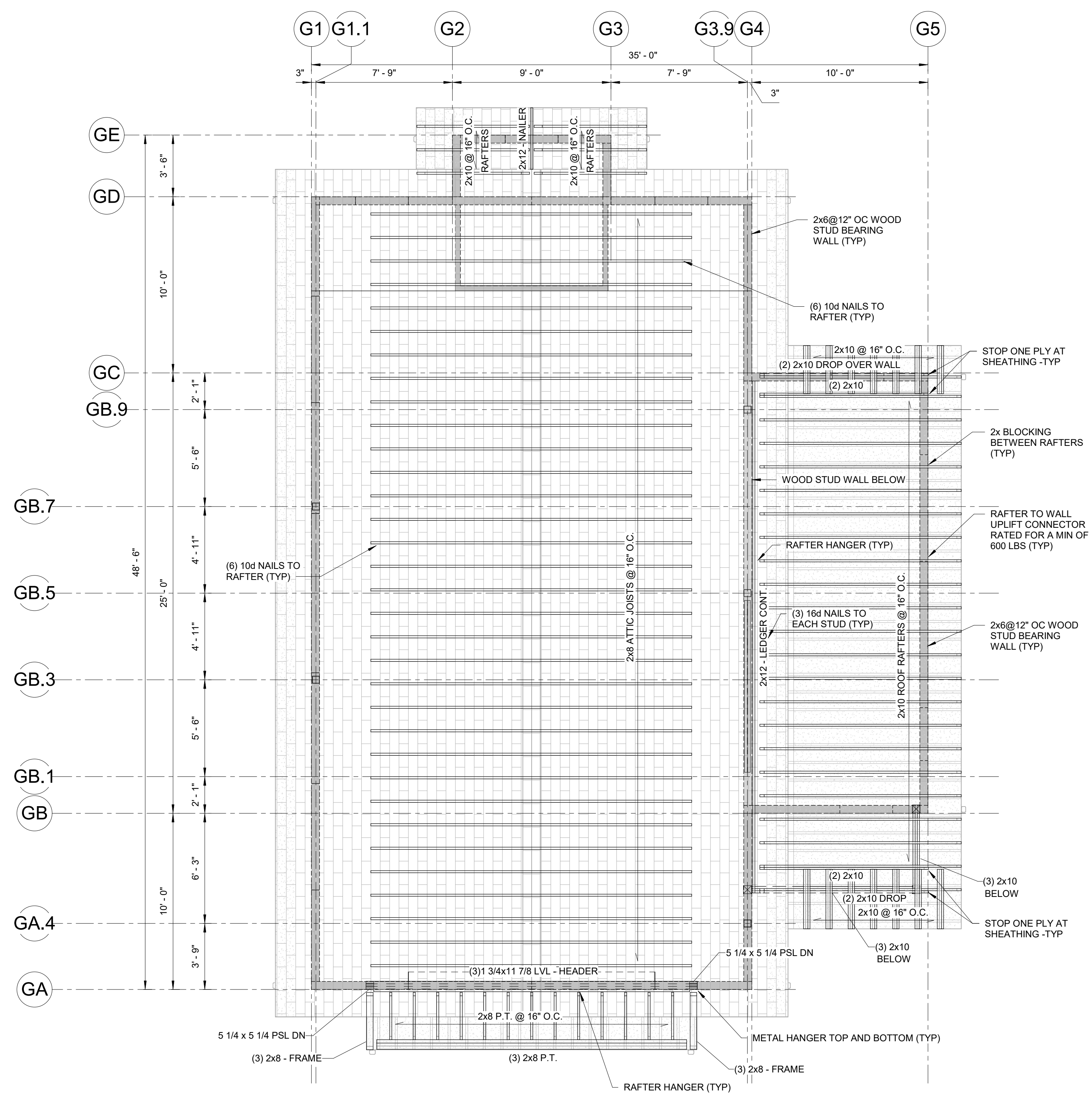
**HARBORMASTER BUILDING - FLOOR DIAPHRAGM SCHEDULE**

MARK	LOCATION	ELEVATION AT TOP	TYPE	FASTENING
WDF-1	MAIN FLOOR	16' - 0"	TWO LAYERS OF 3/4" APA RATED STRUC 1 T&G PLYWOOD SHEATHING	10d COMMON NAILING @ 6" O.C. AT EDGES AND 12" O.C. IN FIELD
WDF-2	MAIN FLOOR	16' - 0"	DECKING PER ARCHITECTURAL DRAWINGS	PER ARCHITECTURAL DRAWINGS
WDF-3	PER PLAN	15' - 11 1/4"	TWO LAYERS OF 3/4" APA RATED STRUC 1 T&G PLYWOOD SHEATHING PLUS EPOXY TOPPING/TILE PER ARCH DWGS	10d COMMON NAILING @ 4" O.C. AT EDGES AND 12" O.C. IN FIELD
WDR-1	ROOF	<varies>	5/8" APA CDX RATED PLYWOOD SHEATHING	10d COMMON NAILING @ 6" O.C. ON EDGES AND 12" O.C. IN FIELD

- FRAMING NOTES:**
- FR1. COORDINATE ALL DIMENSIONS, SLOPES, AND ELEVATIONS NOTED ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. IF CONFLICTS ARE FOUND, THE ARCHITECTURAL DRAWINGS SHALL CONTROL.
  - FR2. POST LOCATIONS SHOWN ON PLANS. POSTS TO BE LOCATED IN WALLS, U.N.O.
  - FR3. PROVIDED STAINLESS STEEL HARDWARE AND CONNECTORS AT ALL EXTERIOR CONDITIONS.
  - FR4. PROVIDE GALVANIZED OR STAINLESS STEEL FACE MOUNT JOIST OR TRUSS HANGERS ALL FLUSH FRAMED SUPPORT CONDITIONS.
  - FR5. PROVIDE METAL POST BASES AND CAPS AT ALL SUPPORT CONDITIONS.
  - FR6. WALLS TO HAVE SINGLE BOTTOM PLATE AND DOUBLE TOP PLATE, TYPICAL.
  - FR7. PROVIDE 1/2" P.T. PLYWOOD BENEATH ALL FLOOR JOISTS SECURED WITH 8d NAILS @ 12" O.C.
  - FR8. PROVIDE LIGHT GAUGE RIDGE STRAPS AT 32" O.C.
  - FR9. COORDINATE ROOF PENETRATIONS WITH ARCHITECTURAL AND MEP DRAWINGS.
  - FR10. UPLIFT CONNECTORS TO BE PROVIDED AT ALL TRUSS/RAFTER CONNECTIONS TO WOOD TOP PLATE/BAM.

- LATERAL FRAMING NOTES:**
- LF1. ALL EXTERIOR WALLS TO BE 2x6 STUD WALL @ 16" O.C. (UNO) w/15/32" APA RATED PLYWOOD ON ONE SIDE OF THE WALL WITH PROVIDE 2x BLOCKING BETWEEN STUDS W/ 10d COMMON NAILS @ 6" O.C. AT EDGES AND 12" O.C. IN FIELD.
  - LF2. EXTERIOR SHEARWALLS SHALL HAVE (3) 2x6 MINIMUM AT ENDS OF ALL SHEARWALLS. AT ALL HD-1 AS NOTED ON PLANS
  - LF3. "HD-1" INDICATES TWO 7 GAUGE (MINIMUM) LIGHT GAUGE STEEL STRAP SET EACH SIDE OF A 6x6 POST WITH A COMBINED UPLIFT CAPACITY OF 3,000 LBS MINIMUM (NOTCH BEAM/POST AS REQUIRED)
  - LF4. "HD-2" INDICATES FOUR UPLIFT CONNECTORS WITH A COMBINED CAPACITY OF 3,000 LBS MINIMUM.

- PLAN NOTES:**
- 1. VERIFY ALL DIMENSIONS IN FIELD. EXISTING BUILDING DIMENSIONS SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
  - 2. PROJECT ELEVATIONS HAVE BEEN COORDINATED WITH ARCHITECTURAL PLANS AND DO NOT NECESSARILY REFLECT ESTABLISHED SURVEY ELEVATIONS FOLLOWING A DATUM. REFER TO CIVIL PLANS FOR PROJECT ELEVATIONS.
  - 3. DIMENSIONS TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS.



**HARBORMASTER GARAGE ATTIC AND ROOF FRAMING PLAN**  
 SCALE: 1/4" = 1'-0"

**ISSUED FOR BIDDING NOT FOR CONSTRUCTION**

**SESUIT HARBOR IMPROVEMENTS**

**CATALYST ARCHITECTURE & INTERIORS**

351 SESUIT HARBOR RD  
 DENNIS, MA 02660

MARK	DATE	DESCRIPTION
PROJECT NO:	C19676.01	
DATE:	08/01/2025	
FILE:	C19676.01-S1.6	
DRAWN BY:	JWH	
DESIGNED/CHECKED BY:	EJM/MHP	
APPROVED BY:	JAB	

**HARBORMASTER GARAGE ATTIC AND ROOF FRAMING PLAN**

SCALE: AS SHOWN

Last Saved: 7/22/2025 11:57:28  
 Plotted On: 8/22/2025 11:57:28  
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 By: JWH



**HARBORMASTER BUILDING - FLOOR DIAPHRAGM SCHEDULE**

MARK	LOCATION	ELEVATION AT TOP	TYPE	FASTENING
WDF-1	MAIN FLOOR	16' - 0"	TWO LAYERS OF 3/4" APA RATED STRUC 1 T&G PLYWOOD SHEATHING	10d COMMON NAILING @ 6" O.C. AT EDGES AND 12" O.C. IN FIELD
WDF-2	MAIN FLOOR	16' - 0"	DECKING PER ARCHITECTURAL DRAWINGS	PER ARCHITECTURAL DRAWINGS
WDF-3	PER PLAN	15' - 11 1/4"	TWO LAYERS OF 3/4" APA RATED STRUC 1 T&G PLYWOOD SHEATHING PLUS EPOXY TOPPING/TILE PER ARCH DWGS	10d COMMON NAILING @ 4" O.C. AT EDGES AND 12" O.C. IN FIELD
WDR-1	ROOF	<varies>	5/8" APA CDX RATED PLYWOOD SHEATHING	10d COMMON NAILING @ 6" O.C. ON EDGES AND 12" O.C. IN FIELD

**FRAMING NOTES:**

- FR1. COORDINATE ALL DIMENSIONS, SLOPES, AND ELEVATIONS NOTED ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. IF CONFLICTS ARE FOUND, THE ARCHITECTURAL DRAWINGS SHALL CONTROL.
- FR2. POST LOCATIONS SHOWN ON PLANS. POSTS TO BE LOCATED IN WALLS, U.N.O.
- FR3. PROVIDED STAINLESS STEEL HARDWARE AND CONNECTORS AT ALL EXTERIOR CONDITIONS.
- FR4. PROVIDE GALVANIZED OR STAINLESS STEEL FACE MOUNT JOIST OR TRUSS HANGERS ALL FLUSH FRAMED SUPPORT CONDITIONS.
- FR5. PROVIDE METAL POST BASES AND CAPS AT ALL SUPPORT CONDITIONS.
- FR6. WALLS TO HAVE SINGLE BOTTOM PLATE AND DOUBLE TOP PLATE, TYPICAL.
- FR7. PROVIDE 1/2" P.T. PLYWOOD BENEATH ALL FLOOR JOISTS SECURED WITH 8d NAILS @ 12" O.C.
- FR8. PROVIDE LIGHT GAUGE RIDGE STRAPS AT 32" O.C.
- FR9. COORDINATE ROOF PENETRATIONS WITH ARCHITECTURAL AND MEP DRAWINGS.
- FR10. UPLIFT CONNECTORS TO BE PROVIDED AT ALL TRUSS/RAFTER CONNECTIONS TO WOOD TOP PLATE/BEAM.

**LATERAL FRAMING NOTES:**

- LF1. ALL EXTERIOR WALLS TO BE 2x6 STUD WALL @ 16" O.C. (UNO) w/15/32" APA RATED PLYWOOD ON ONE SIDE OF THE WALL WITH PROVIDE 2x BLOCKING BETWEEN STUDS W/ 10d COMMON NAILS @ 6" O.C. AT EDGES AND 12" O.C. IN FIELD.
- LF2. EXTERIOR SHEARWALLS SHALL HAVE (3) 2x6 MINIMUM AT ENDS OF ALL SHEARWALLS. AT ALL HD-1 AS NOTED ON PLANS
- LF3. "HD-1" INDICATES TWO 7 GAUGE (MINIMUM) LIGHT GAUGE STEEL STRAP SET EACH SIDE OF A 6x6 POST WITH A COMBINED UPLIFT CAPACITY OF 3,000 LBS MINIMUM (NOTCH BEAM/POST AS REQUIRED)
- LF4. "HD-2" INDICATES FOUR UPLIFT CONNECTORS WITH A COMBINED CAPACITY OF 3,000 LBS MINIMUM.

**HEADER SCHEDULE AT NON-BEARING WALLS**

MAX SPAN	HEADER TYPE	JACK STUD(S)	KING STUD(S)
3' - 0"	(2)2x6	2x	2x
6' - 0"	(2)2x8	2x	2x
9' - 0"	(2)2x10	(2)2x	(2)2x
12' - 0"	(3)2x10	(2)2x	(2)2x

**NOTES:**

- 1. SCHEDULE IS FOR NON-BEARING WALLS ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING LOCATIONS, PROVIDE AS REQUIRED.
- 2. SPANS ARE MEASURED FROM CENTER OF JACK STUD (S).
- 3. JACK & KING STUDS TO MATCH THE THICKNESS OF THE TYPICAL WALL STUDS.
- 4. PROVIDE PLYWOOD SPACERS AS NEEDED.

**HEADER SCHEDULE AT BEARING & SHEAR WALLS**

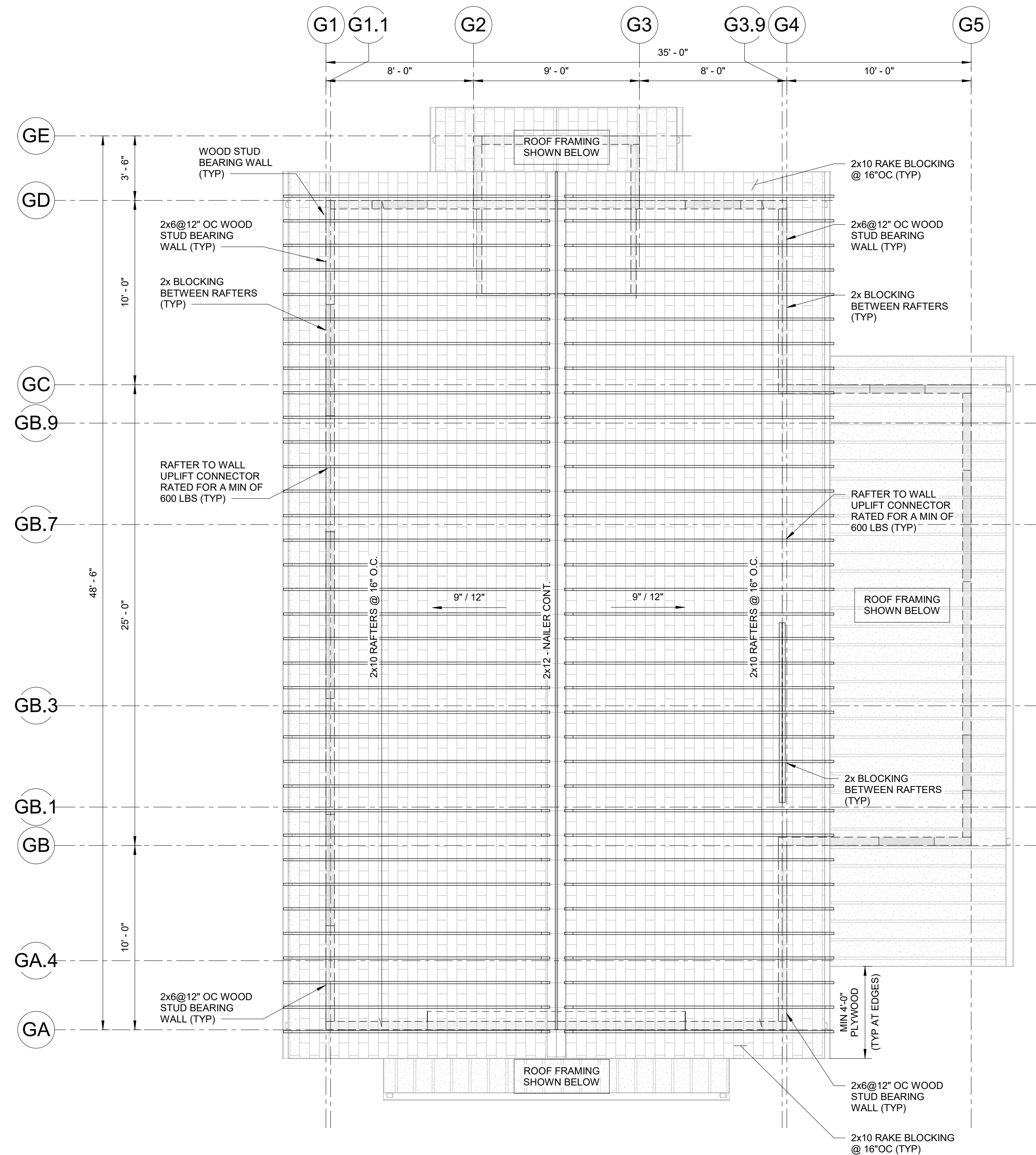
MAX SPAN	HEADER TYPE	JACK STUD(S)	KING STUD(S)
3' - 0"	(2)2x10	(2)2x	2x
6' - 0"	(2)1-3/4x 9-1/2 LVL	(2)2x	(2)2x
9' - 0"	(3)1-3/4x9-1/2 LVL	(2)2x	(2)2x
12' - 0"	(3)1-3/4x11-7/8 LVL	(3)2x	(2)2x

**NOTES:**

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING LOCATIONS, PROVIDE AS REQUIRED.
- 2. SPANS ARE MEASURED FROM CENTER OF JACK STUD (S).
- 3. JACK & KING STUDS TO MATCH THE THICKNESS OF THE TYPICAL WALL STUDS.
- 4. PROVIDE PLYWOOD SPACERS AS NEEDED.

**ROOF PLAN NOTES:**

- RP1. COORDINATE ALL DIMENSIONS, SLOPES, AND ELEVATIONS NOTED ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- RP2. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, SLOPES, AND ELEVATIONS NOT NOTED ON THE STRUCTURAL DRAWINGS.
- RP3. "C1" INDICATED 5 1/4 x 5 1/4 PSL POST. "C2" INDICATES 6x6 P.T. POST.
- RP4. PROVIDE LIGHT GAUGE RIDGE STRAPS AT 32" O.C. - TYP.
- RP5. EXTERIOR WALLS TO BE CONSTRUCTED OF 2x6 WOOD STUDS @ 16" O.C. MAX. PROVIDE SINGLE BOTTOM PLATE AND DOUBLE TOP PLATE.
- RP6. EXTERIOR WALL SHEATHING TO BE 1/2" (NOMINAL) STRUCTURAL SHEATHING SECURED WITH 10d NAILS SPACED AT 6" AT THE PANEL EDGES AND 12" IN THE FIELD, U.N.O.
- RP7. HORIZONTAL BLOCKING IS TO BE PROVIDED AT ALL PLYWOOD PANEL EDGES.
- RP8. SHEAR WALLS (DESIGNATED AS "SW-X" ON PLAN) TO BE SHEATHED ON THE EXTERIOR SIDE OF THE WALL AND SECURED TO THE STUDS W/ 10d NAILS SPACED AT 4" PANEL EDGES AND 12" IN THE FIELD.
- RP9. ROOF SHEATHING TO BE 5/8" THICK (NOMINAL) APA CDX PANELS SECURED TO THE ROOF TRUSSES WITH 10d NAILS AT 6" O.C. (SPACING FIELD AND EDGES). REDUCE SPACING TO 4" O.C. WITHIN 4'-0" FROM THE CORNERS OF THE ROOF FRAMING.
- RP10. PROVIDE STAINLESS STEEL HARDWARE AND CONNECTORS AT ALL EXTERIOR CONDITIONS.



**HARBORMASTER GARAGE ROOF FRAMING PLAN**

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

**ISSUED FOR BIDDING NOT FOR CONSTRUCTION**

**SESUIT HARBOR IMPROVEMENTS**

**CATALYST ARCHITECTURE & INTERIORS**

351 SESUIT HARBOR RD  
DENNIS, MA 02660

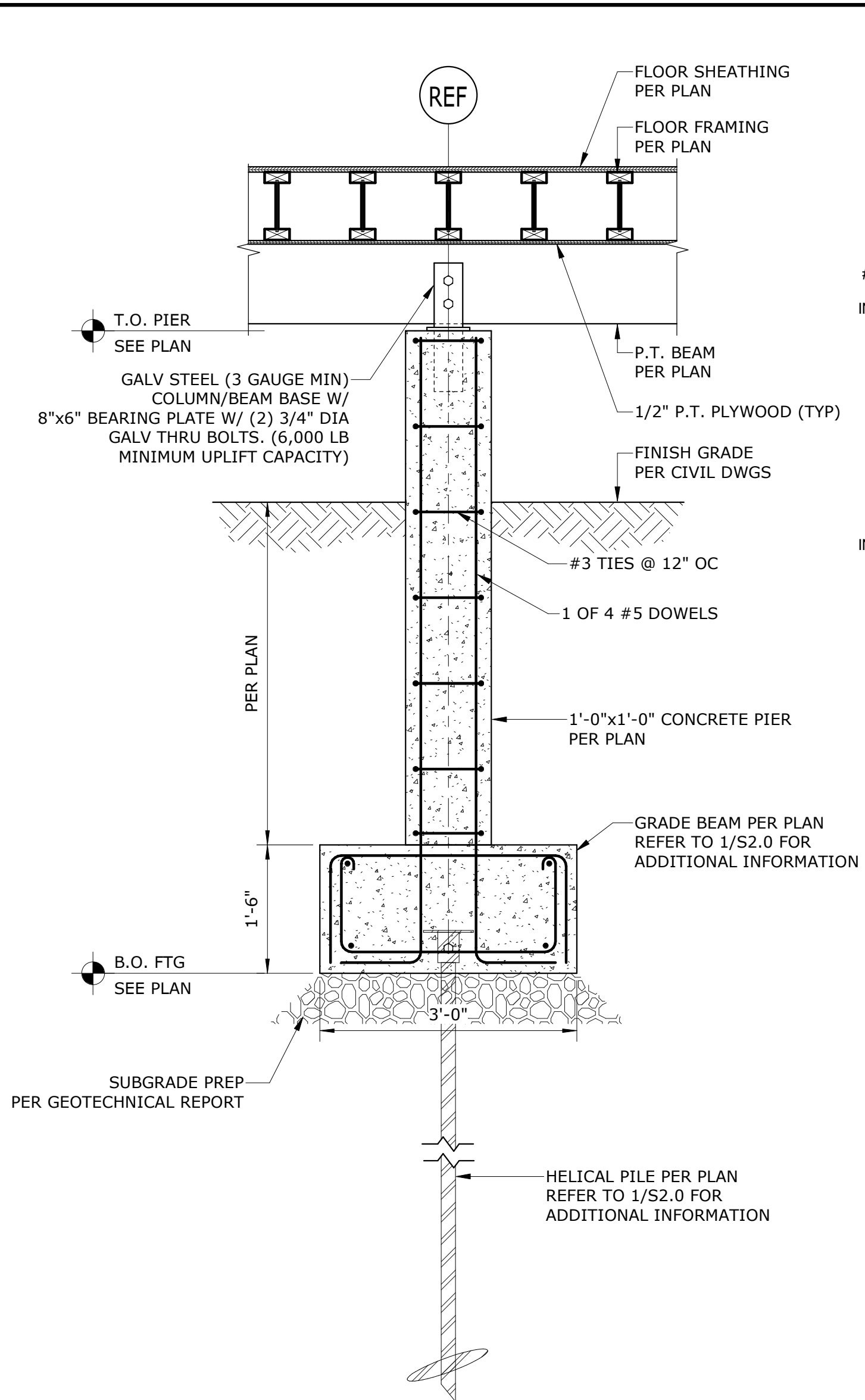
MARK	DATE	DESCRIPTION
PROJECT NO:	C19676.01	
DATE:	08/01/2025	
FILE:	C19676.01-S1.7	
DRAWN BY:	JWH	
DESIGNED/CHECKED BY:	EJM/MHP	
APPROVED BY:	JAB	

**HARBORMASTER GARAGE ROOF FRAMING PLAN**

SCALE: AS SHOWN

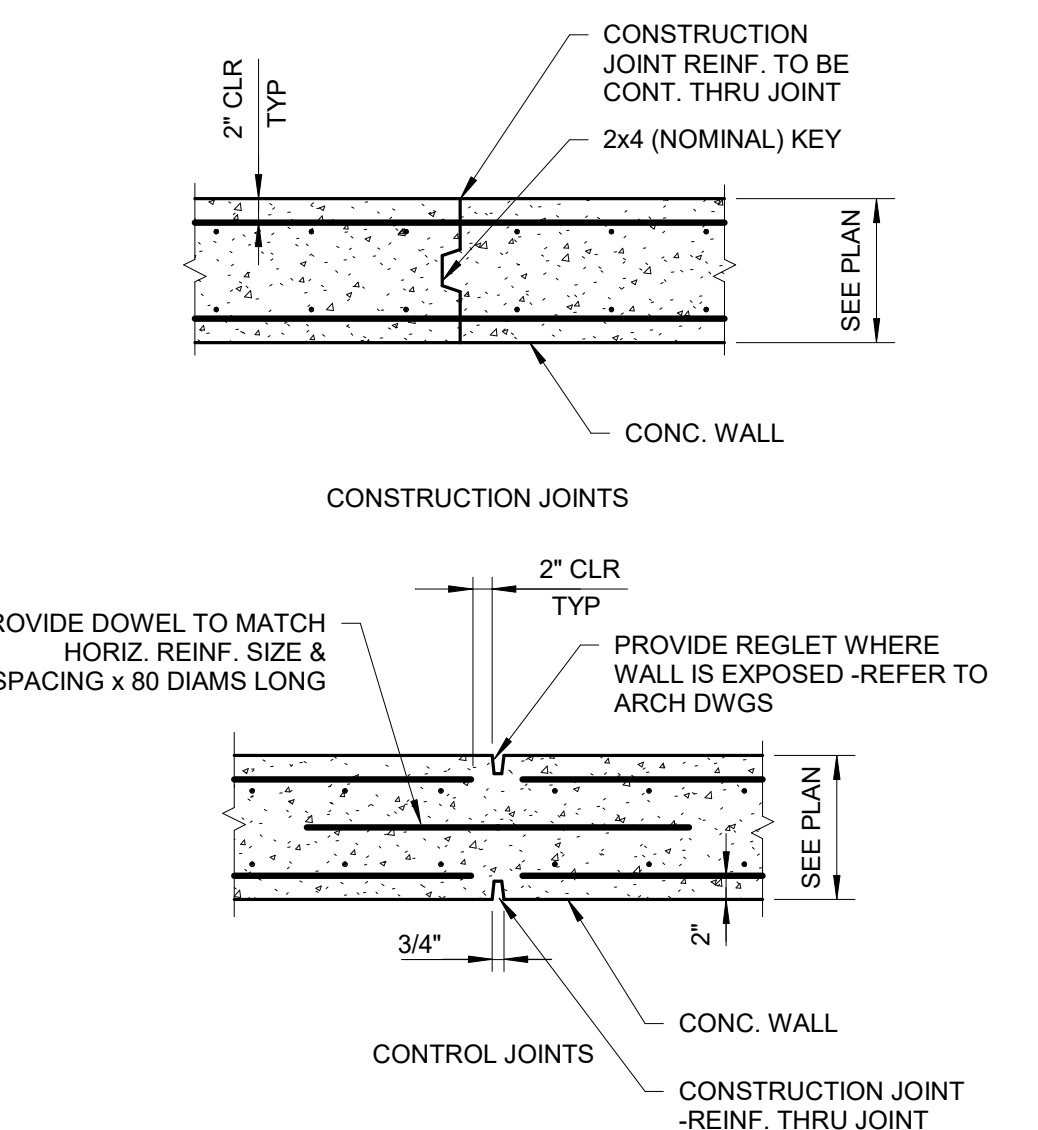
**S1.7**





SECTION AT PIER/HELICAL

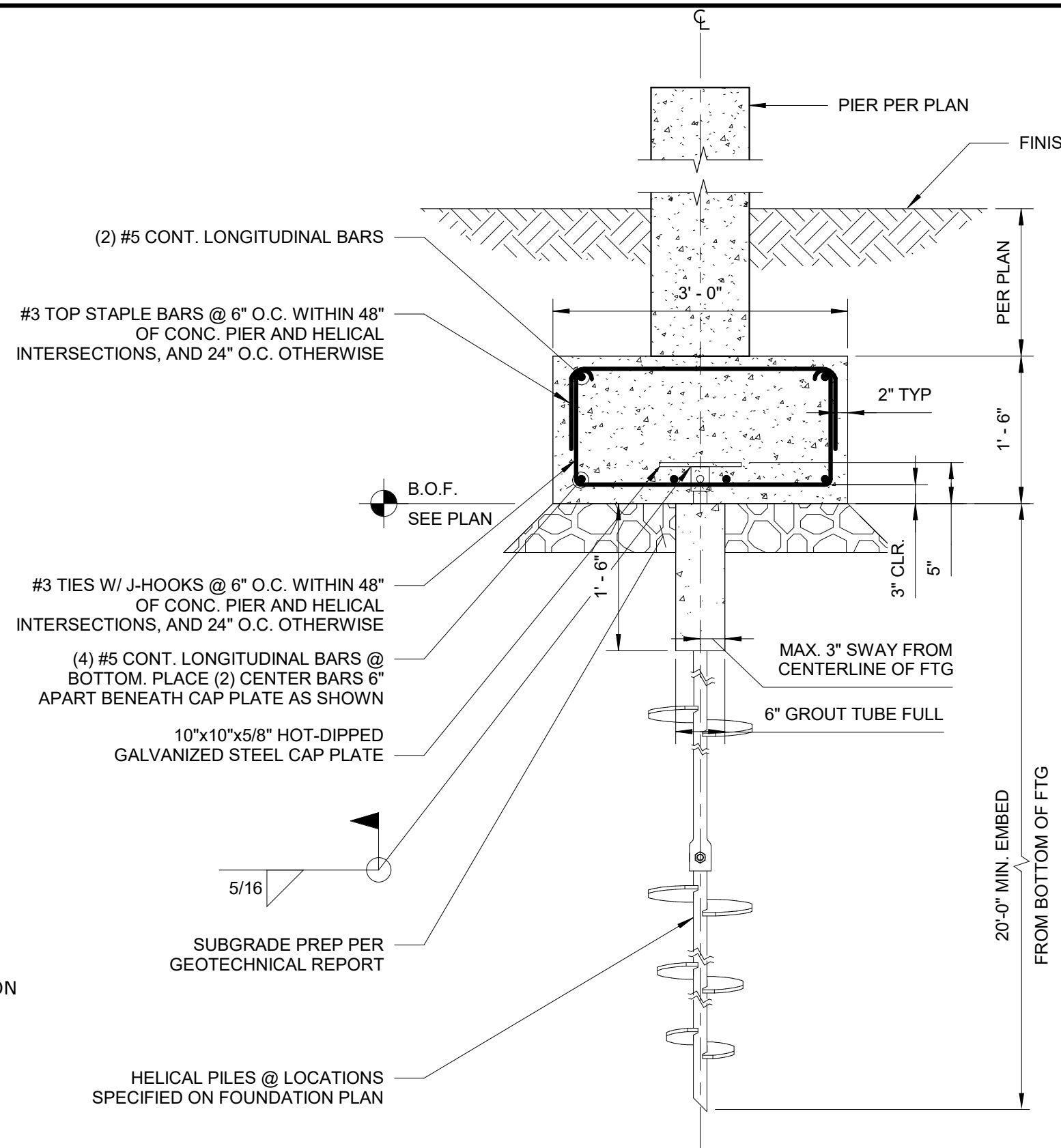
2 DETAIL SCALE: 3/4" = 1'-0"



- NOTES:
- REFER TO SECTIONS FOR WALL REINF. SIZE & SPACING.
  - PLACE CONSTRUCTION JOINTS WHERE SHOWN ON PLAN & AT 60" MAX.
  - CONTROL JOINT (OR CONSTRUCTION JOINT) TO BE PROVIDED @ 30' - 0" MAX.

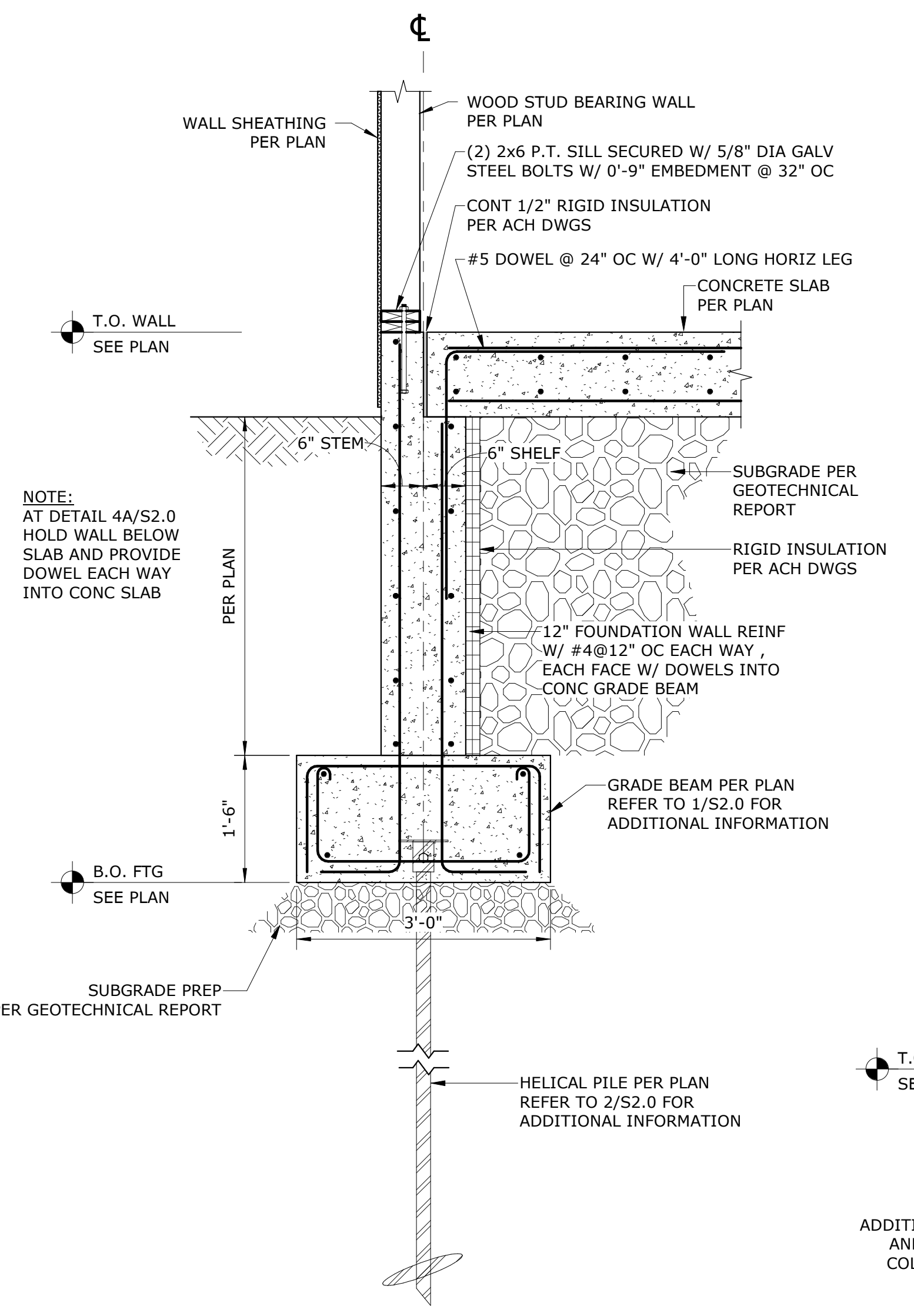
DETAIL AT HELICAL PILE

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



DETAIL AT HELICAL PILE

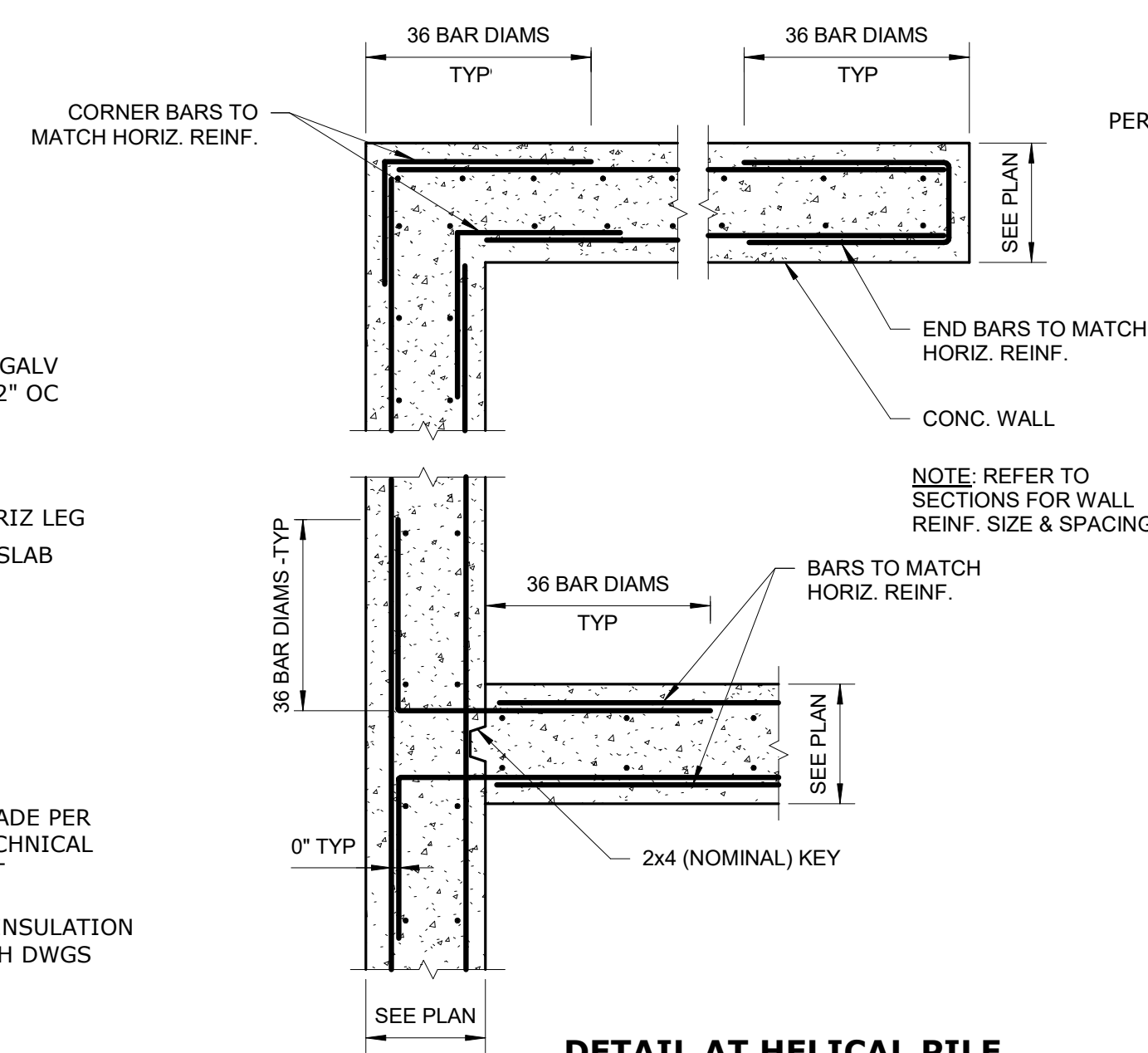
1 DETAIL SCALE: 3/4" = 1'-0"



SECTION AT FND WALL AND HELICAL

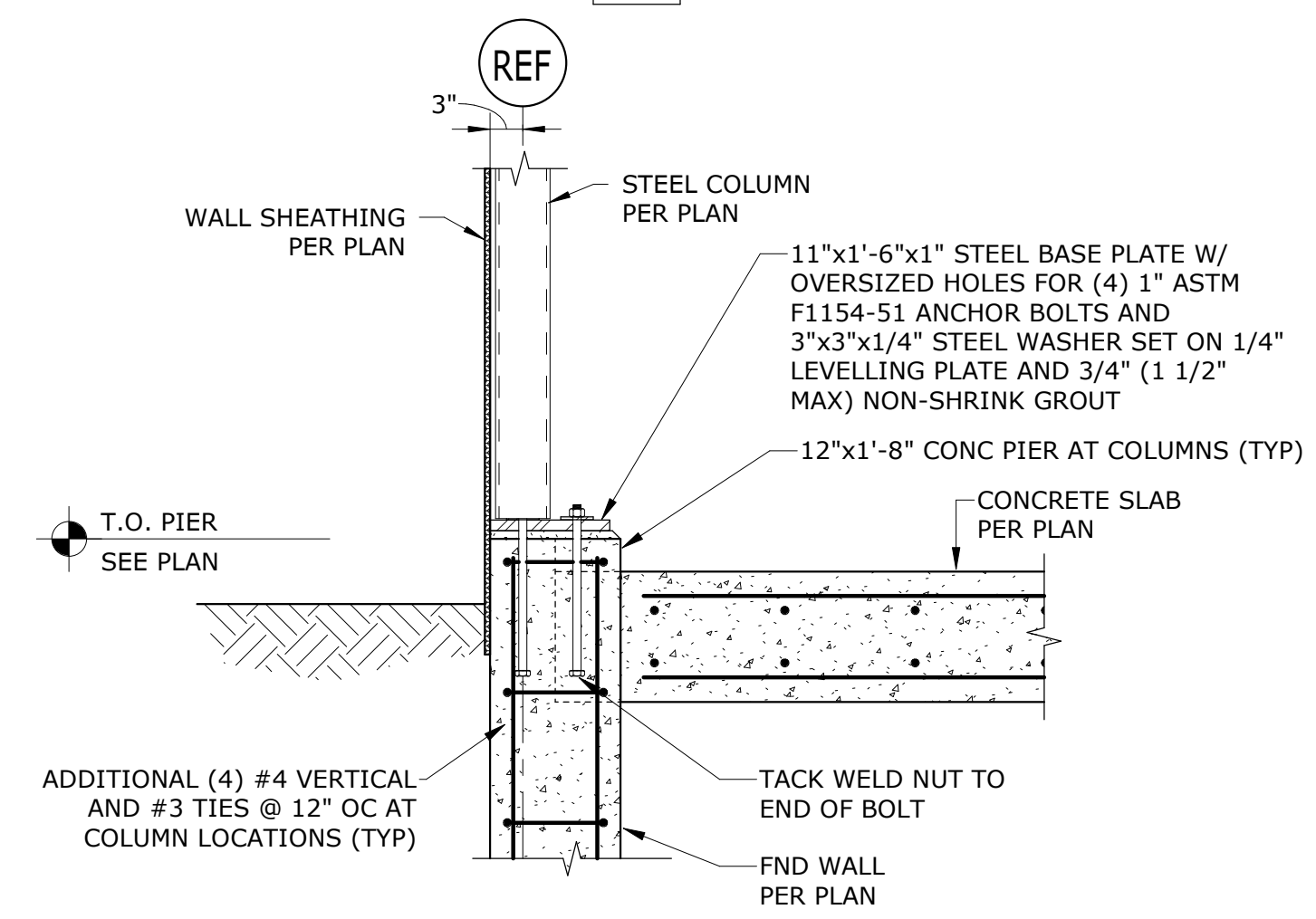
4 DETAIL SCALE: 3/4" = 1'-0"

- NOTES:
- HORIZONTAL GRADE BEAM REBAR TO BE CONTINUOUS.
  - PROVIDE 2'-0"x2'-0" CORNER BARS AT EACH GRADE BEAM INTERSECTION.
  - EXTEND REBAR INTO PILE CAPS WITH 24 BAR DIAMETERS AND 1'-0" LEG.
  - BAR TO BE LAPPED A MINIMUM OF 56 BAR DIAMETERS ALONG THEIR LENGTH



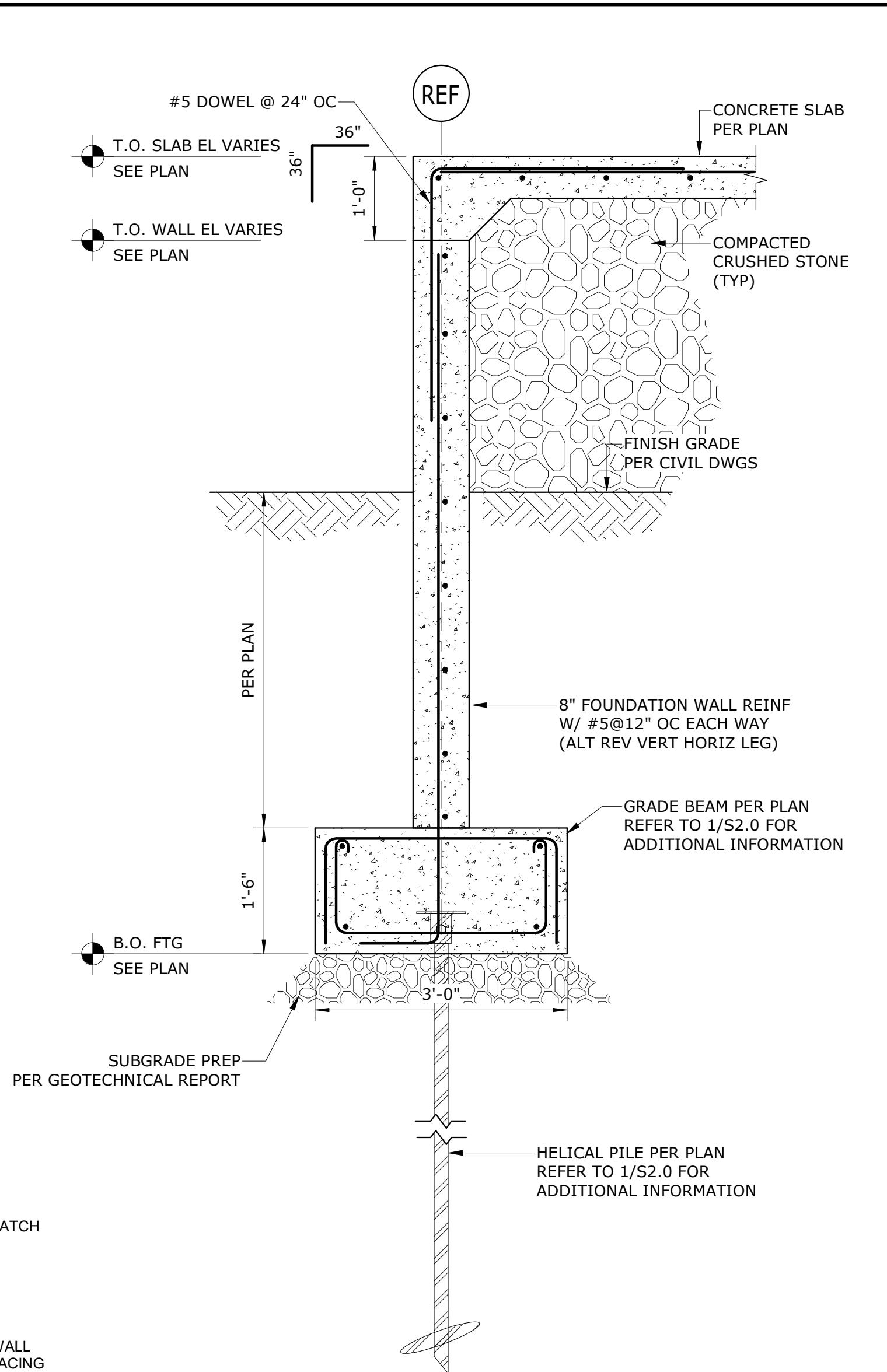
DETAIL AT HELICAL PILE

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



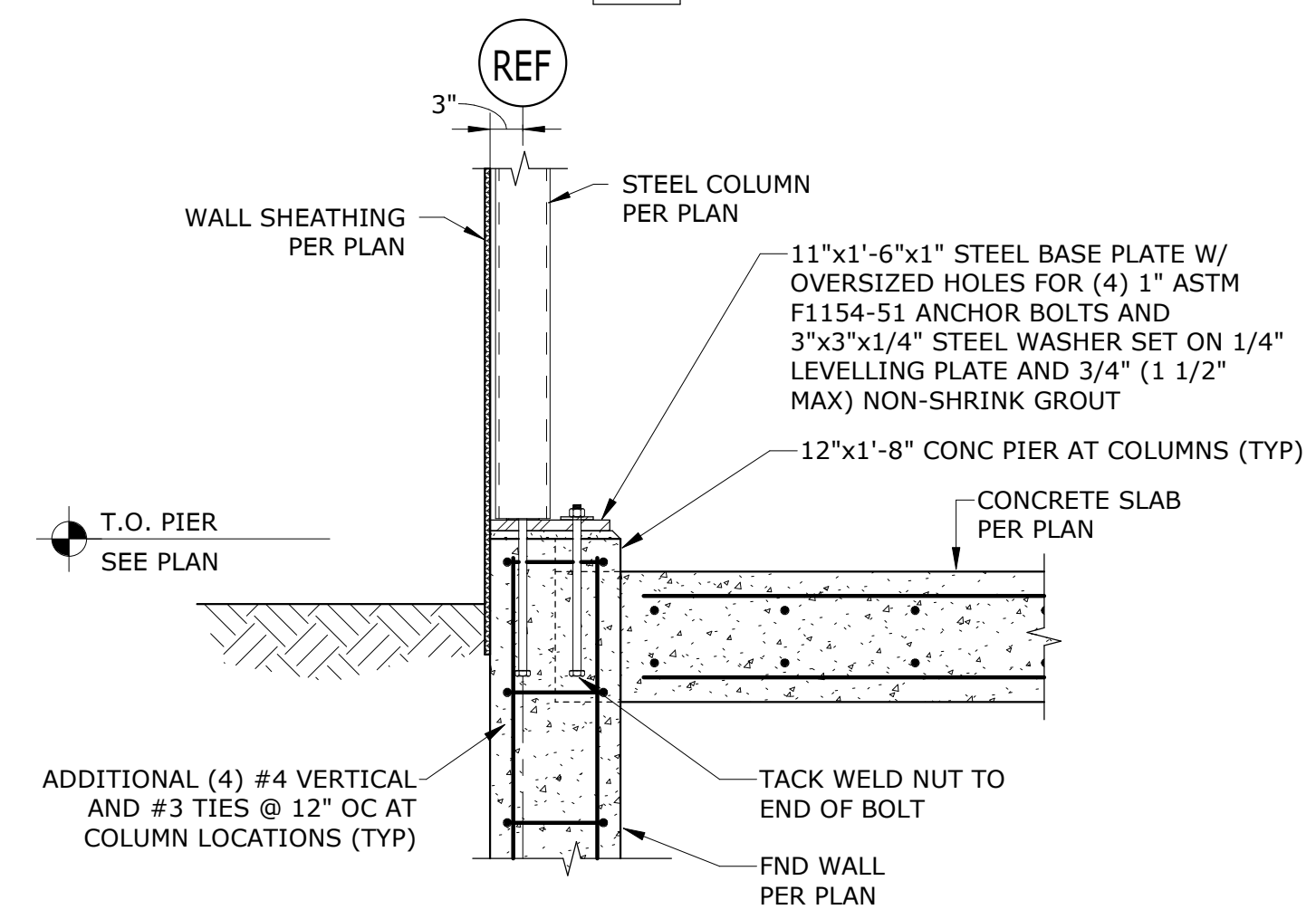
SECTION AT COLUMN

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



SECTION AT FND WALL AND HELICAL

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



SECTION AT GARAGE DOOR

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

ISSUED FOR BIDDING NOT FOR CONSTRUCTION

SESUIT HARBOR IMPROVEMENTS

CATALYST ARCHITECTURE & INTERIORS

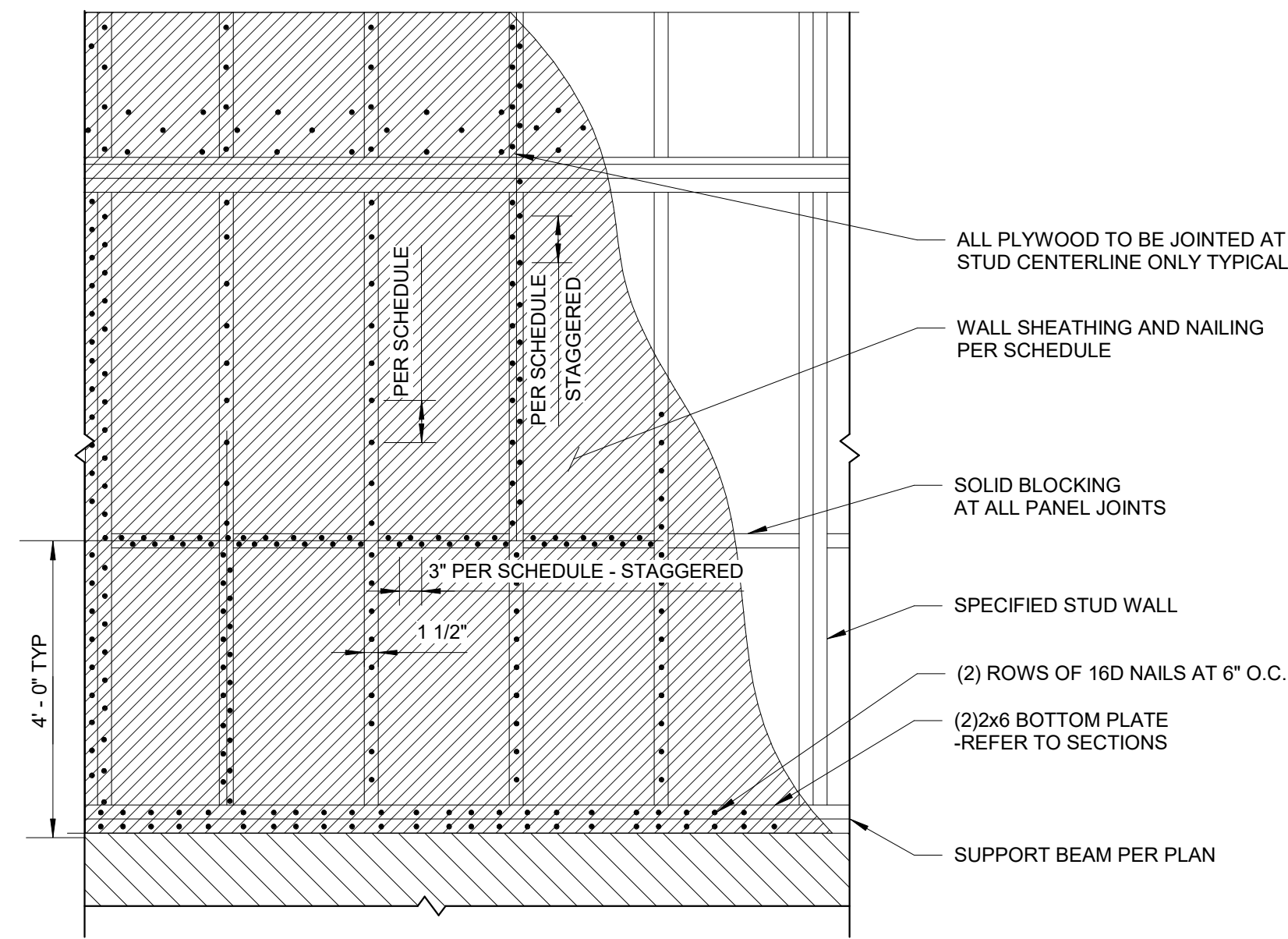
351 SESUIT HARBOR RD DENNIS, MA 02660

MARK	DATE	DESCRIPTION
PROJECT NO:	C19676.01	
DATE:	08/01/2025	
FILE:	C19676.01-S2.0	
DRAWN BY:	JWH	
DESIGNED/CHECKED BY:	MHP	
APPROVED BY:	JAB	

FOUNDATION DETAILS - HELICAL

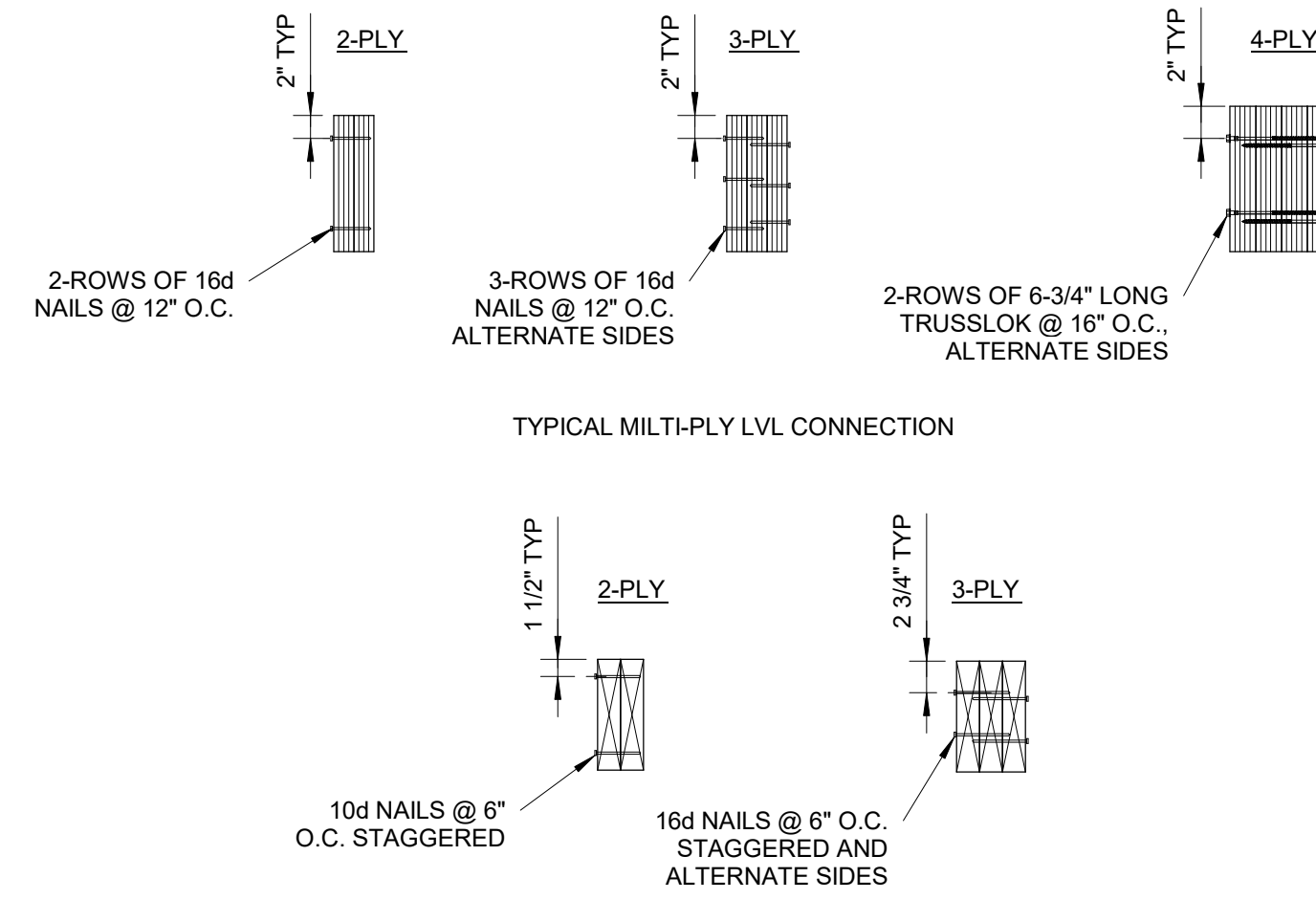
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S2.0



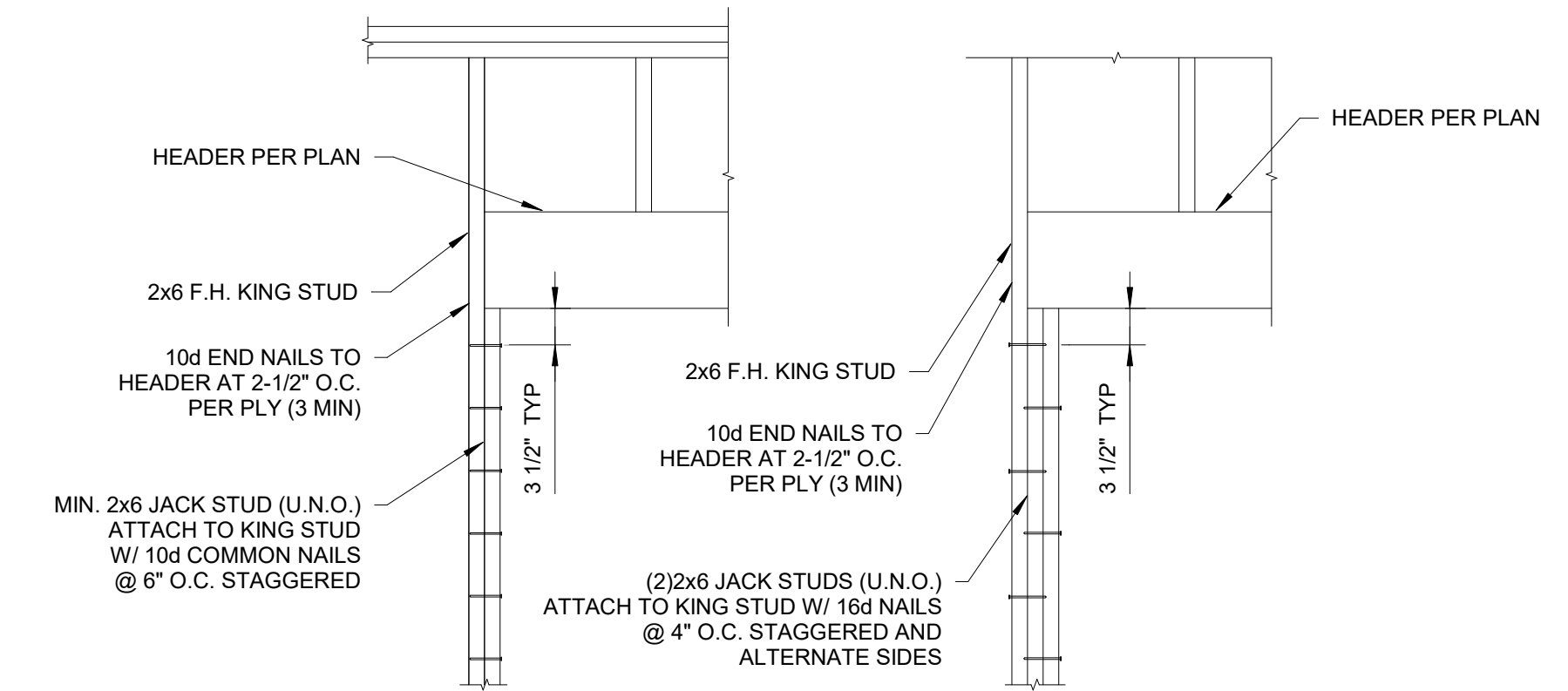
**TYPICAL MAIN FLOOR SHEAR WALL**

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



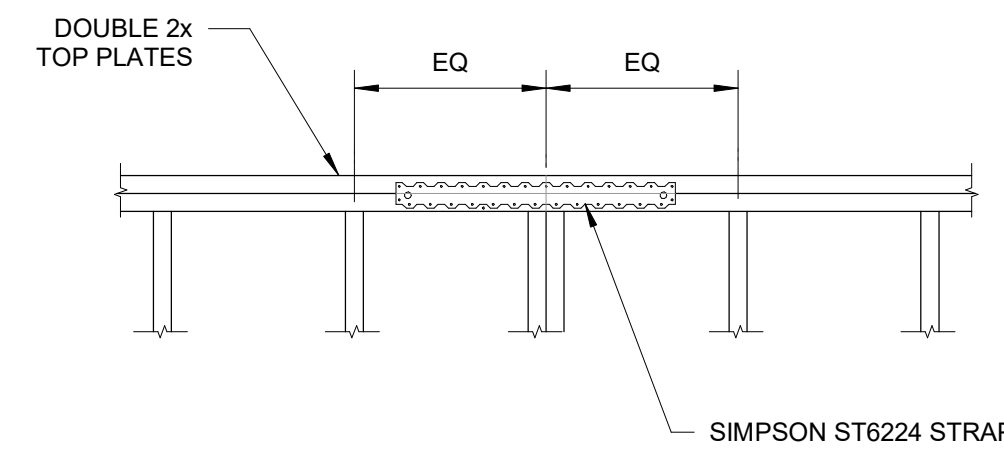
**TYPICAL MULTIPLY DETAILS**

2 **DETAIL**  
 SCALE: 3/4" = 1'-0"



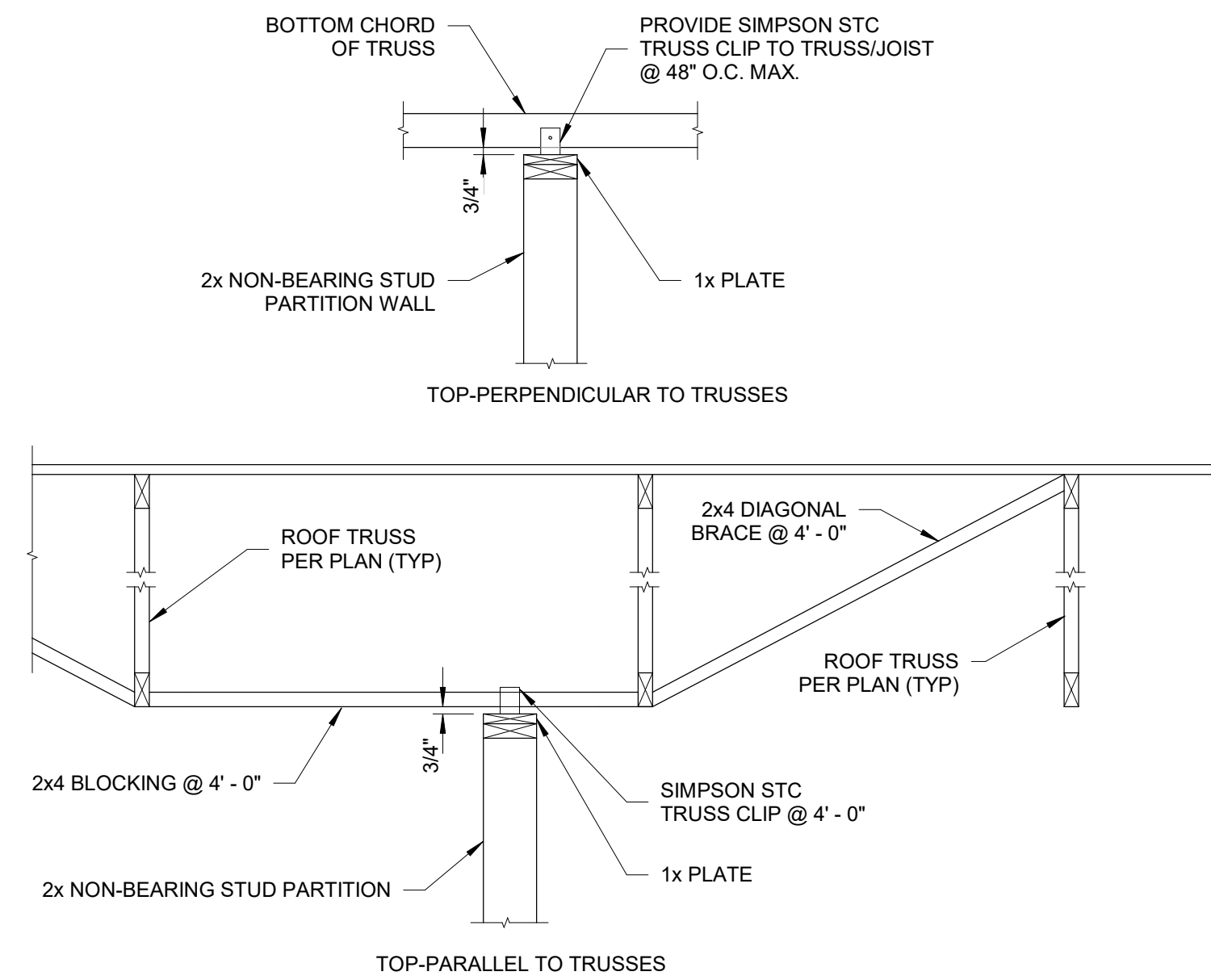
**TYPICAL HEADER DETAILS**

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



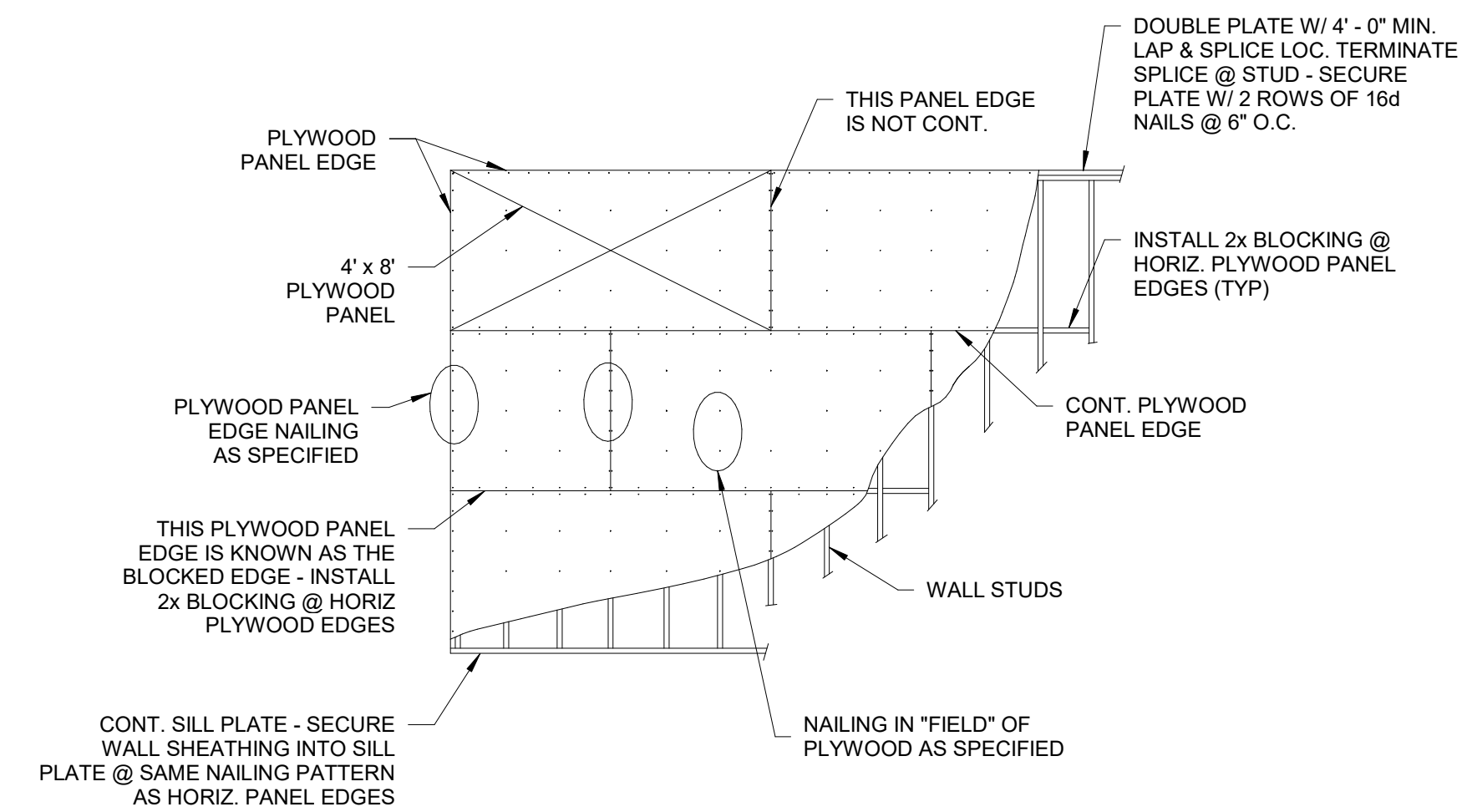
**TYPICAL TOP PLATE SPLICE DETAIL**

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



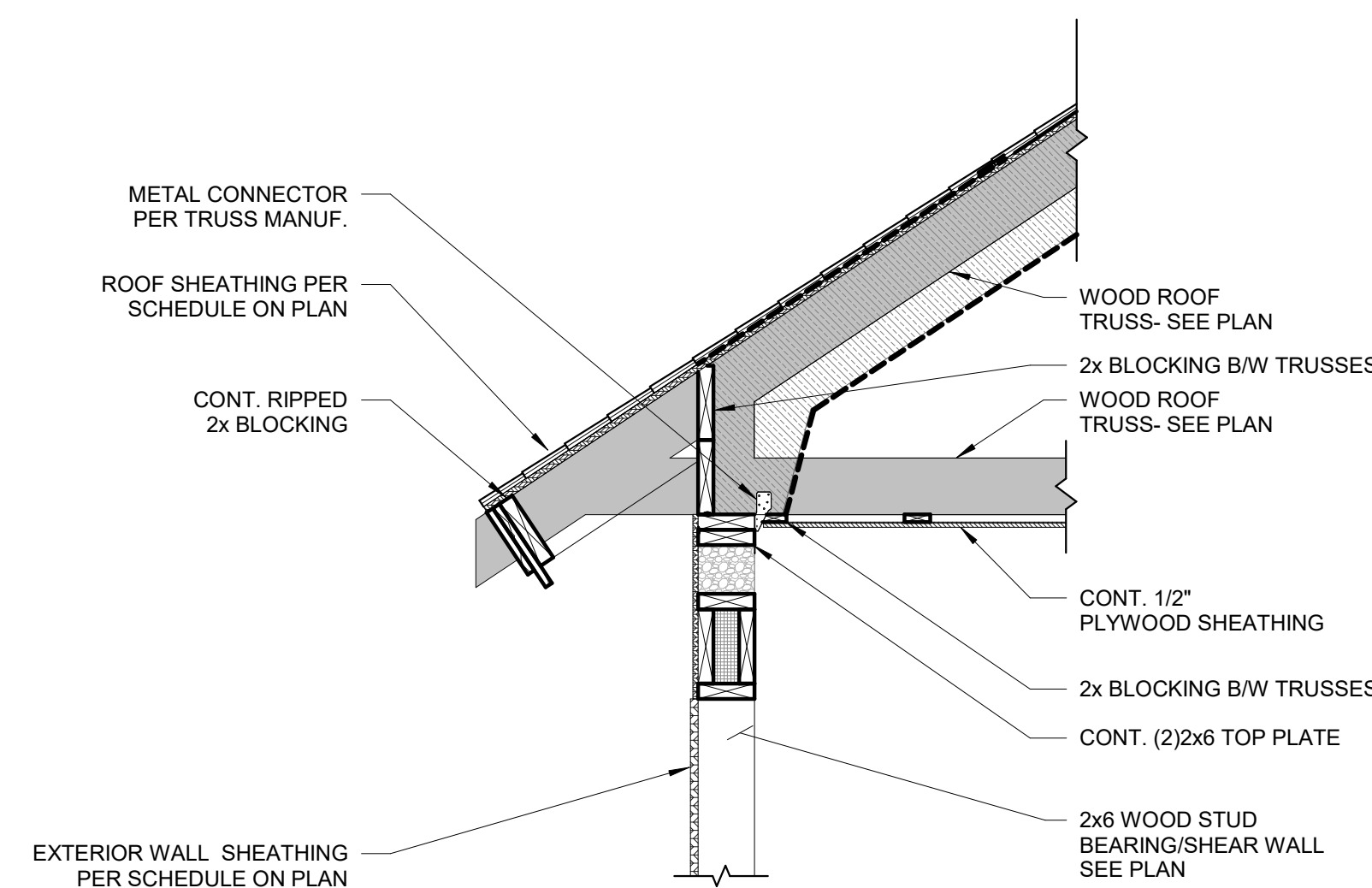
**TYPICAL NON BEARING PARTITION WALLS**

5 **DETAIL**  
 SCALE: 3/4" = 1'-0"



**TYPICAL WALL DIAPHRAGM DETAIL**

6 **DETAIL**  
 SCALE: 1/4" = 1'-0"



**TYPICAL ROOF EDGE DETAIL**

7 **DETAIL**  
 SCALE: 3/4" = 1'-0"

**ISSUED FOR BIDDING NOT FOR CONSTRUCTION**

**SESUIT HARBOR IMPROVEMENTS**

CATALYST ARCHITECTURE & INTERIORS

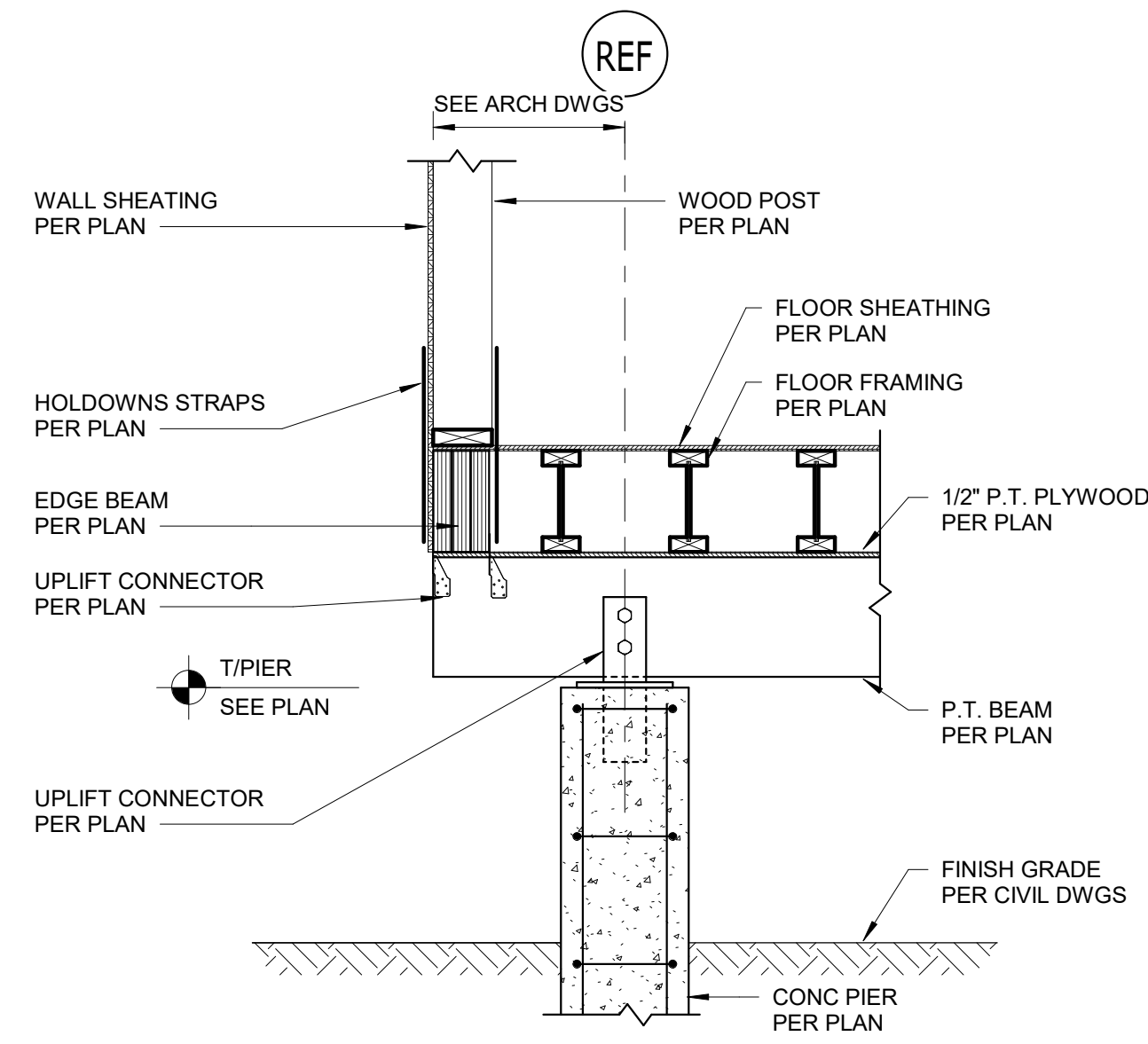
351 SESUIT HARBOR RD  
 DENNIS, MA 02660

MARK	DATE	DESCRIPTION
PROJECT NO:	C19676.01	
DATE:	08/01/2025	
FILE:	C19676.01-S3.0	
DRAWN BY:	JWH	
DESIGNED/CHECKED BY:	EJM/MHP	
APPROVED BY:	JAB	

STRUCTURAL DETAILS

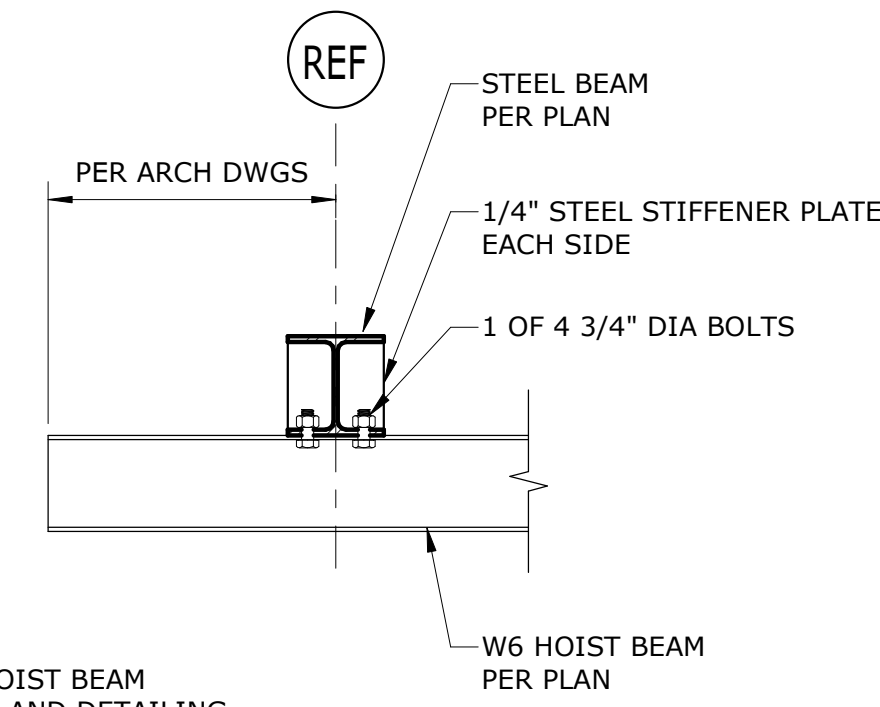
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S3.0



**EDGE DETAIL AT HOLDOWNS**

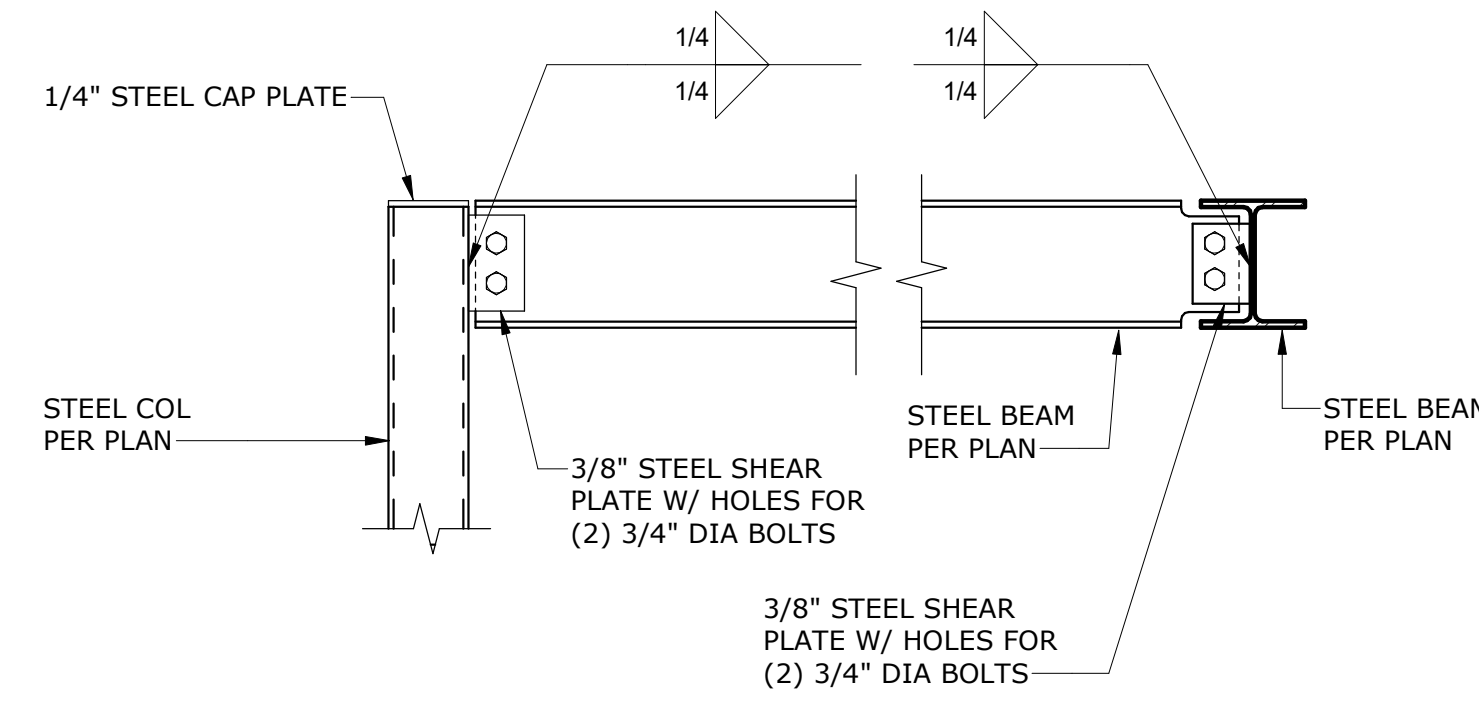
1	<b>DETAIL</b>
SCALE: 3/4" = 1'-0"	



**NOTE:**  
COORDINATE HOIST BEAM REQUIREMENTS AND DETAILING WITH HOIST MANUFACTURER

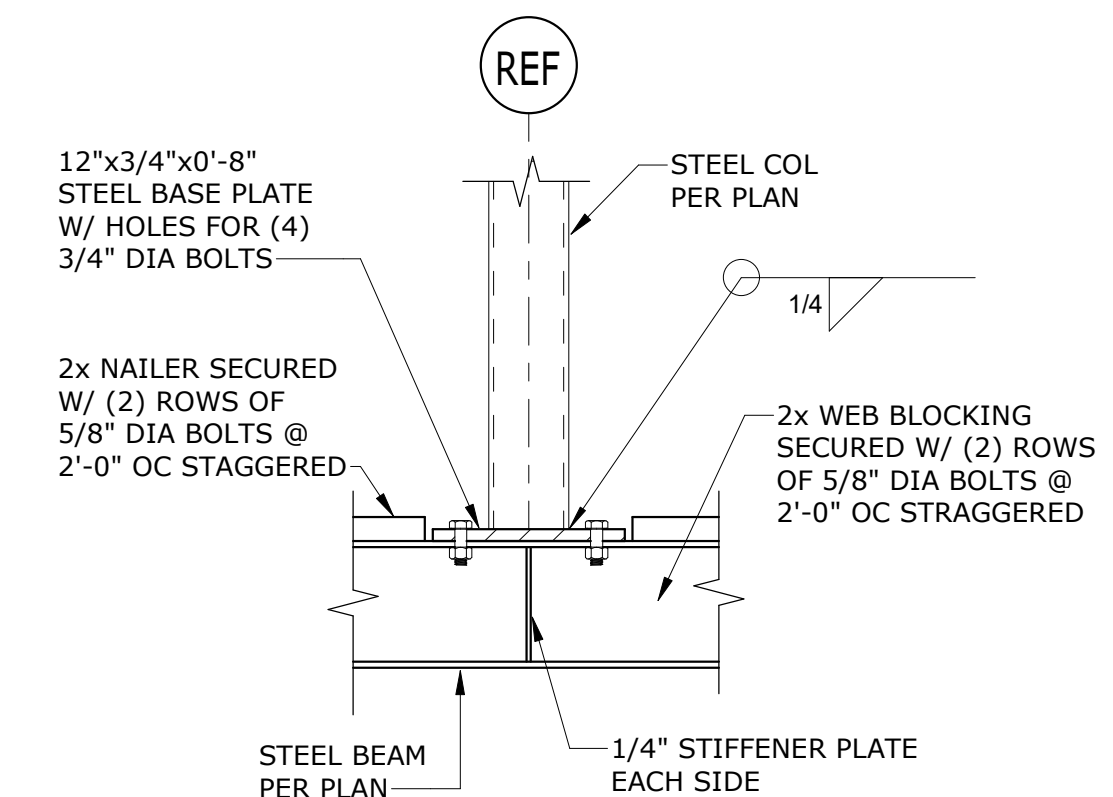
**TYPICAL HOIST BEAM DETAIL**

2	<b>DETAIL</b>
SCALE: 1" = 1'-0"	



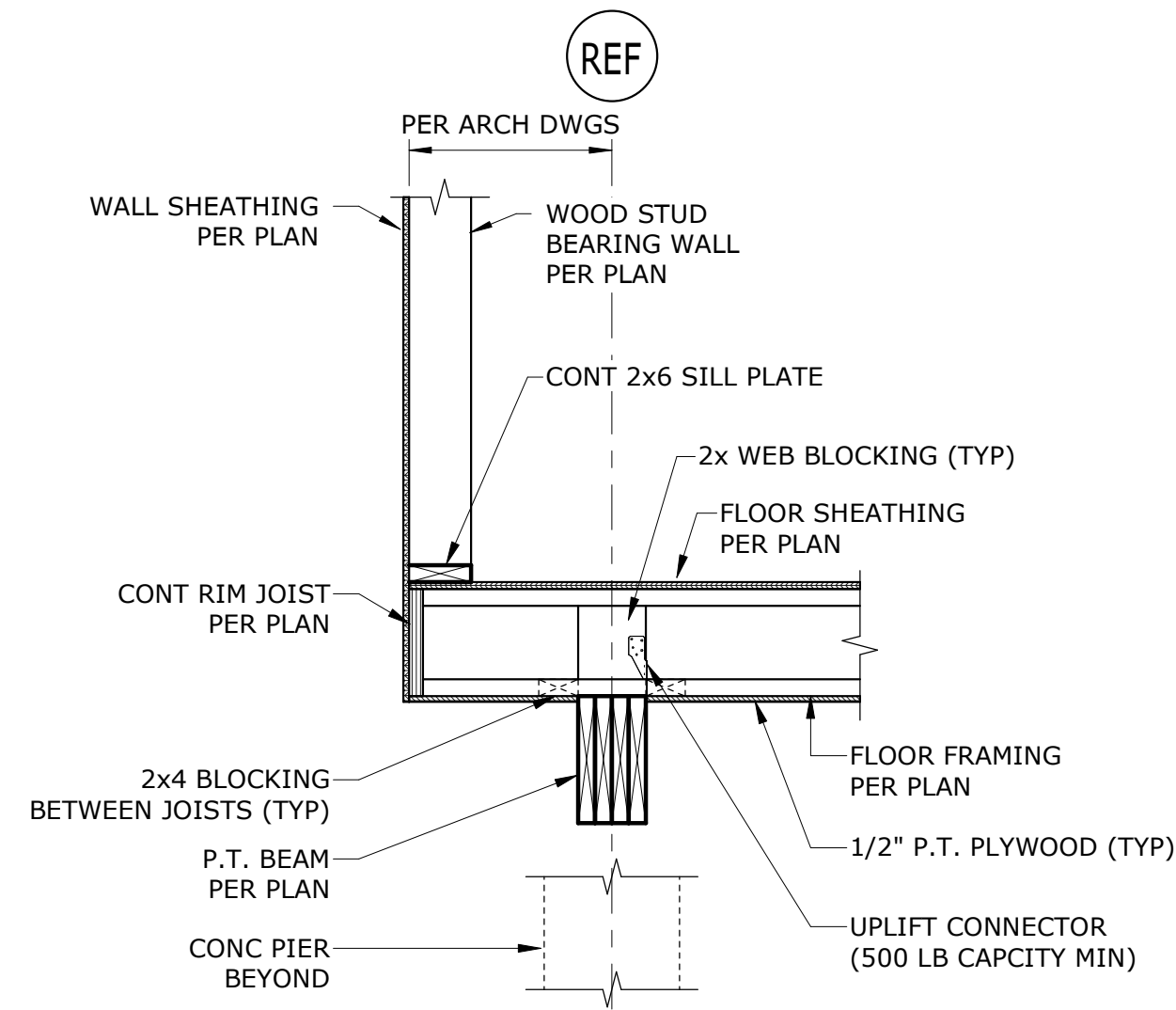
**TYPICAL BEAM CONNECTIONS**

3	<b>DETAIL</b>
SCALE: 1" = 1'-0"	



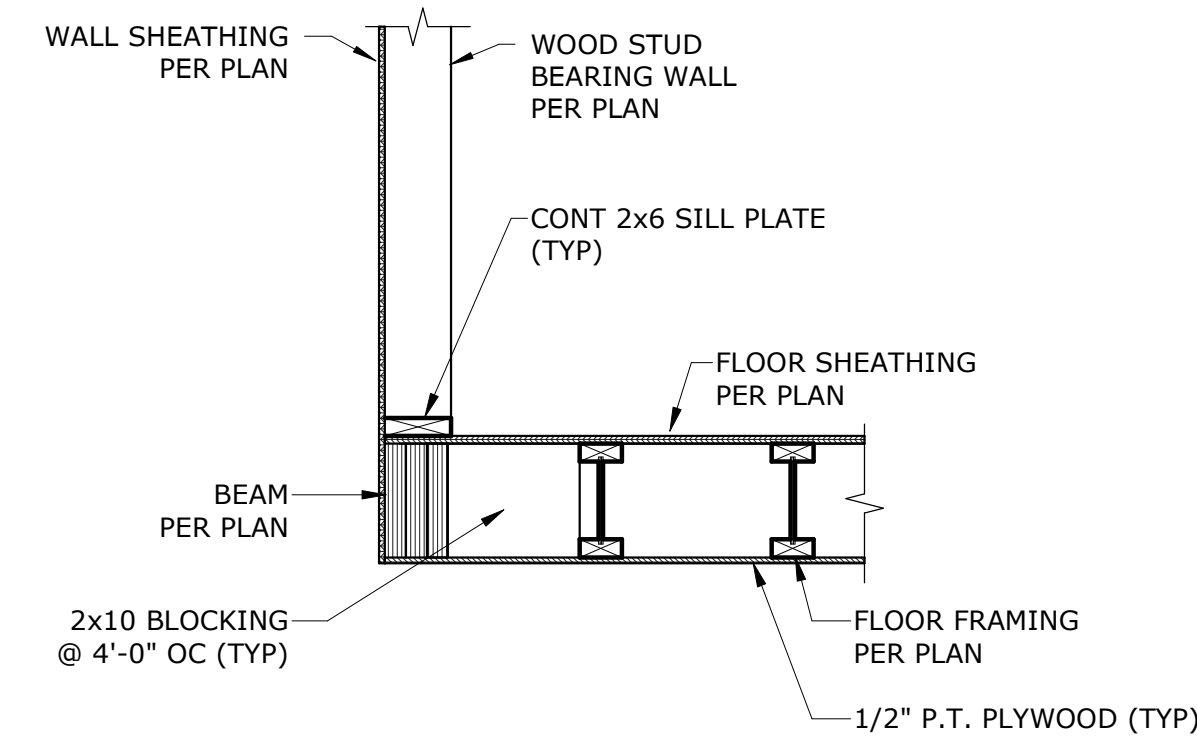
**TYPICAL COLUMN ON BEAM SUPPORT**

4	<b>DETAIL</b>
SCALE: 1" = 1'-0"	



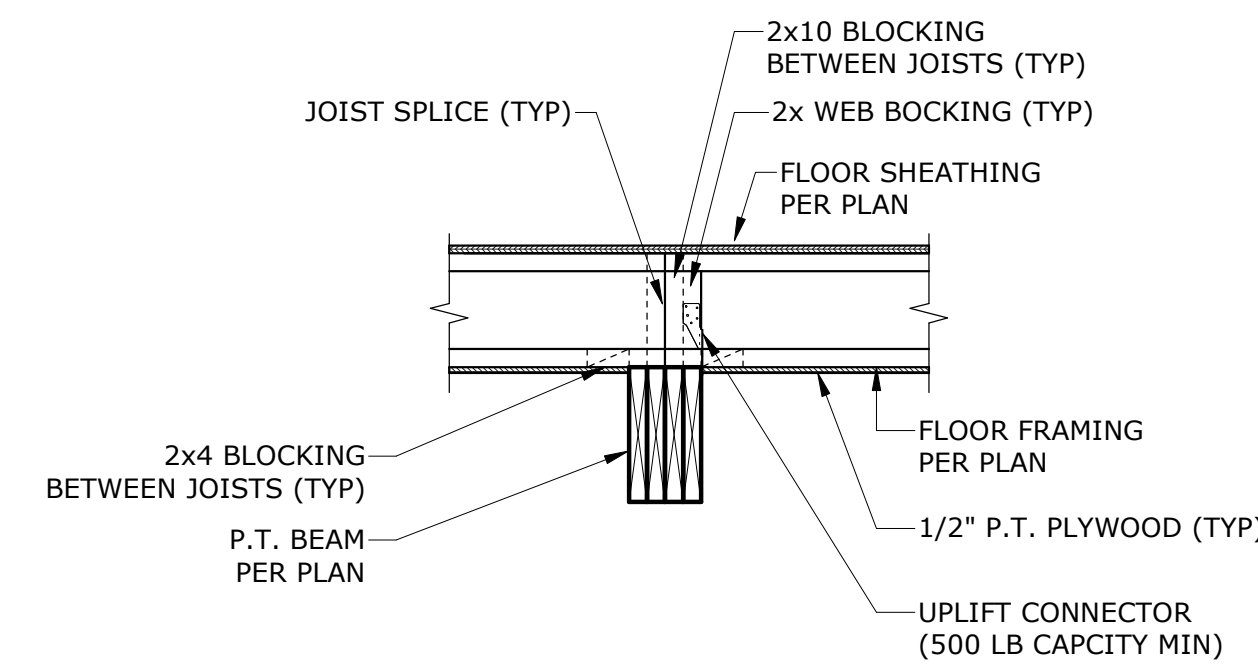
**TYPICAL FLOOR EDGE DETAIL**

5	<b>DETAIL</b>
SCALE: 3/4" = 1'-0"	



**TYPICAL FLOOR EDGE AT BEAM DETAIL**

6	<b>DETAIL</b>
SCALE: 3/4" = 1'-0"	



**TYPICAL JOIST SUPPORT AT INTERIOR BEAM**

7	<b>DETAIL</b>
SCALE: 3/4" = 1'-0"	

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NOT FOR CONSTRUCTION**

**SESUIT HARBOR IMPROVEMENTS**

CATALYST ARCHITECTURE & INTERIORS

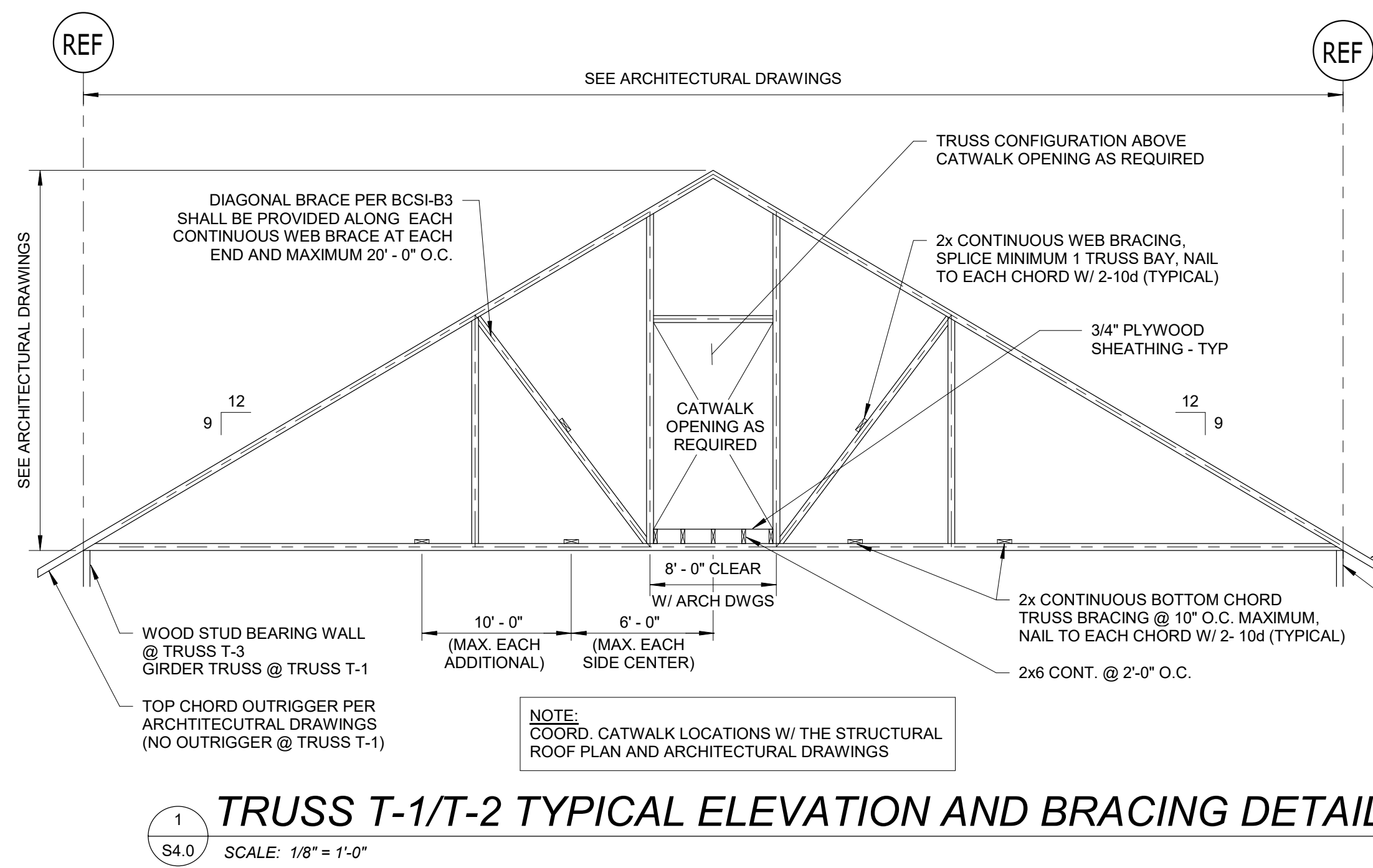
351 SESUIT HARBOR RD  
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MARK	DATE	DESCRIPTION
PROJECT NO:	C19676.01	
DATE:	08/01/2025	
FILE:	C19676.01-S3.1	
DRAWN BY:	JWH	
DESIGNED/CHECKED BY:	EJM/MHP	
APPROVED BY:	JAB	

STRUCTURAL DETAILS II

SCALE: AS SHOWN

S3.1



**ROOF TRUSS BRACING NOTES:**

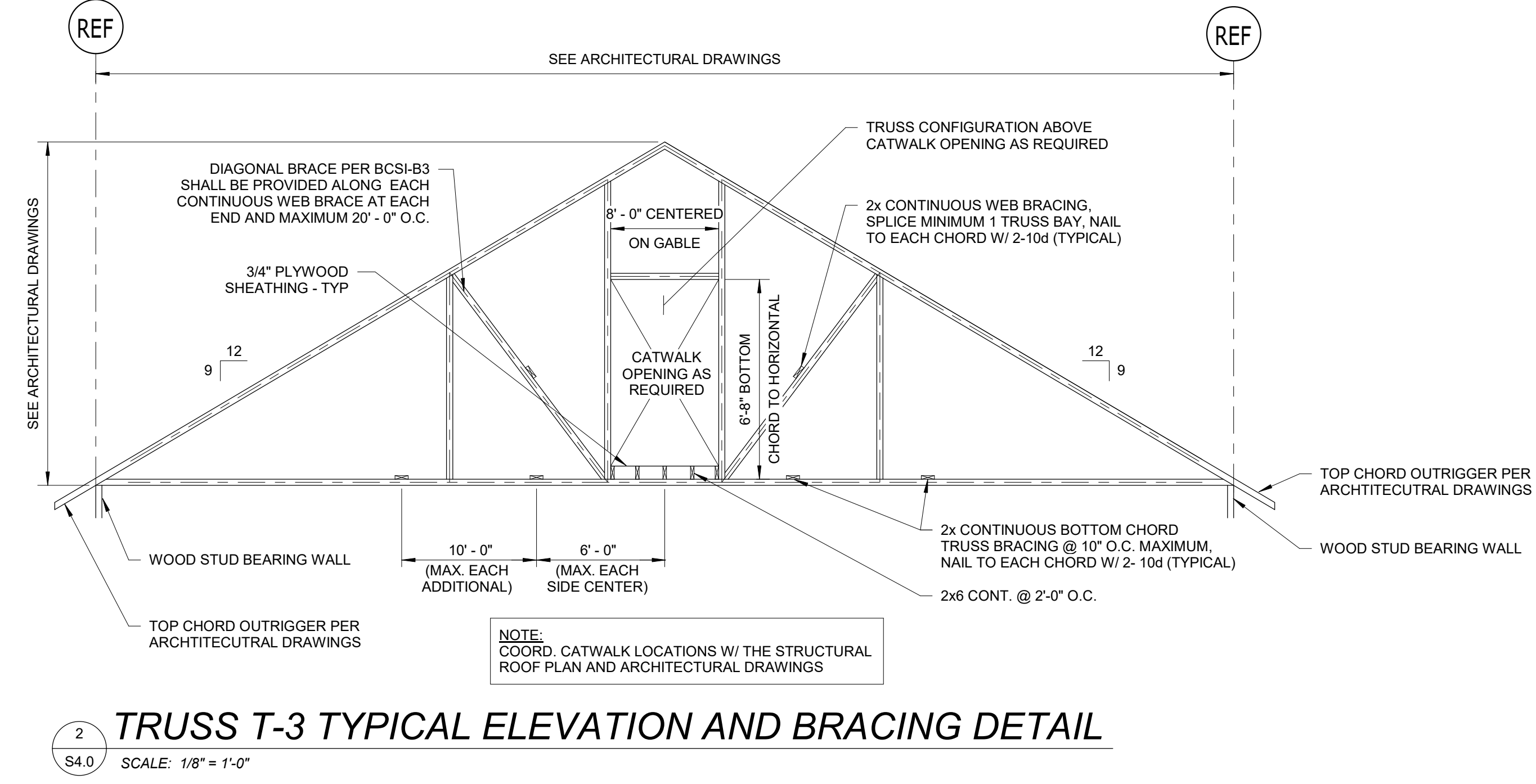
1. TRUSS BRACING SHOWN ON PLAN MAY NOT REFLECT ALL REQUIRED BRACING (BOTH TEMPORARY AND PERMANENT) THAT IS REQUIRED TO COMPLETE THE ROOF TRUSS INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL BRACING IN ACCORDANCE WITH THESE DRAWINGS, THE TRUSS SHOP DRAWINGS AND THE BCSI MANUAL.

2. THE EXACT QUANTITY OF CONTINUOUS WEB BRACES SHALL BE DETERMINED FROM THE TRUSS SHOP DRAWINGS. A MINIMUM OF (2) CONTINUOUS WEB BRACES SHALL BE PROVIDED BETWEEN TRUSSES ON THE CENTERMOST COMPRESSION MEMBER WHERE NO CONTINUOUS WEB BRACING IS NOTED IN THE TRUSS SHOP DRAWINGS.

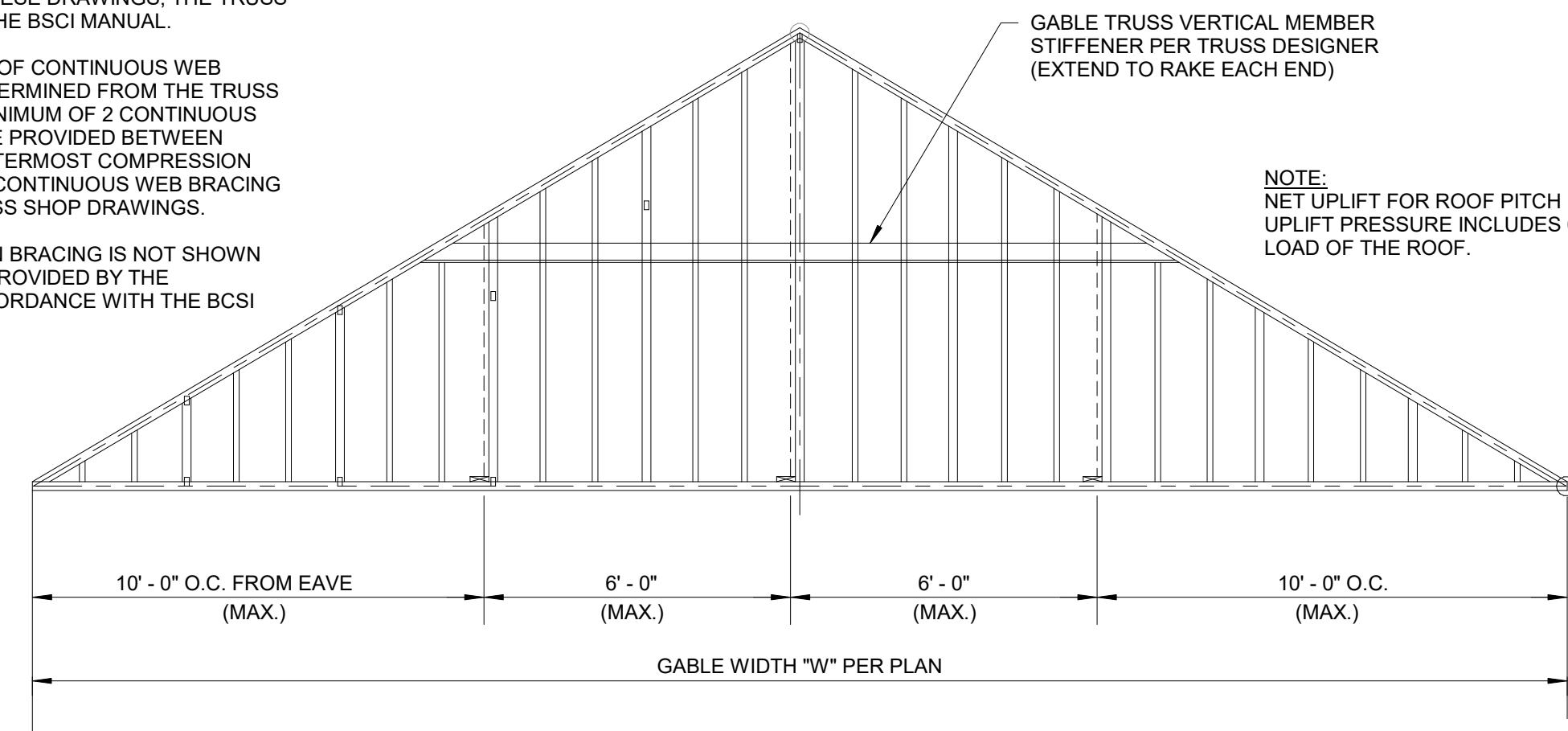
3. TEMPORARY ERECTION BRACING IS NOT SHOWN IN THESE DRAWINGS AND SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE BCSI MANUAL.

4. PROVIDE DIAGONAL BRACING PER BCSI-B3 ALONG EACH CONTINUOUS WEB BRACE AT EACH END AND AT 20'-0" O.C. MAXIMUM NAILED TO EACH TRUSS CHORD WITH (2) 10d NAILS. MINIMUM SPLICE ONLY AT TRUSS MEMBERS.

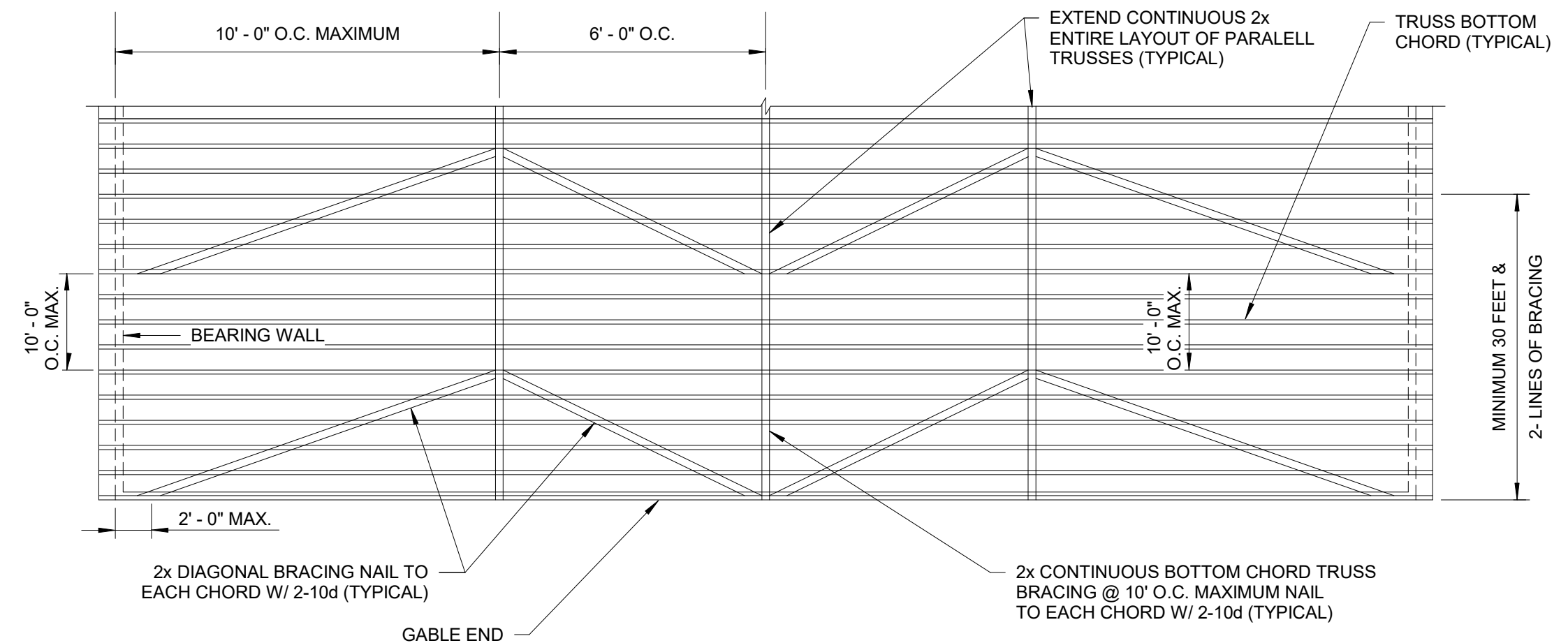
5. REFER TO BCSI MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



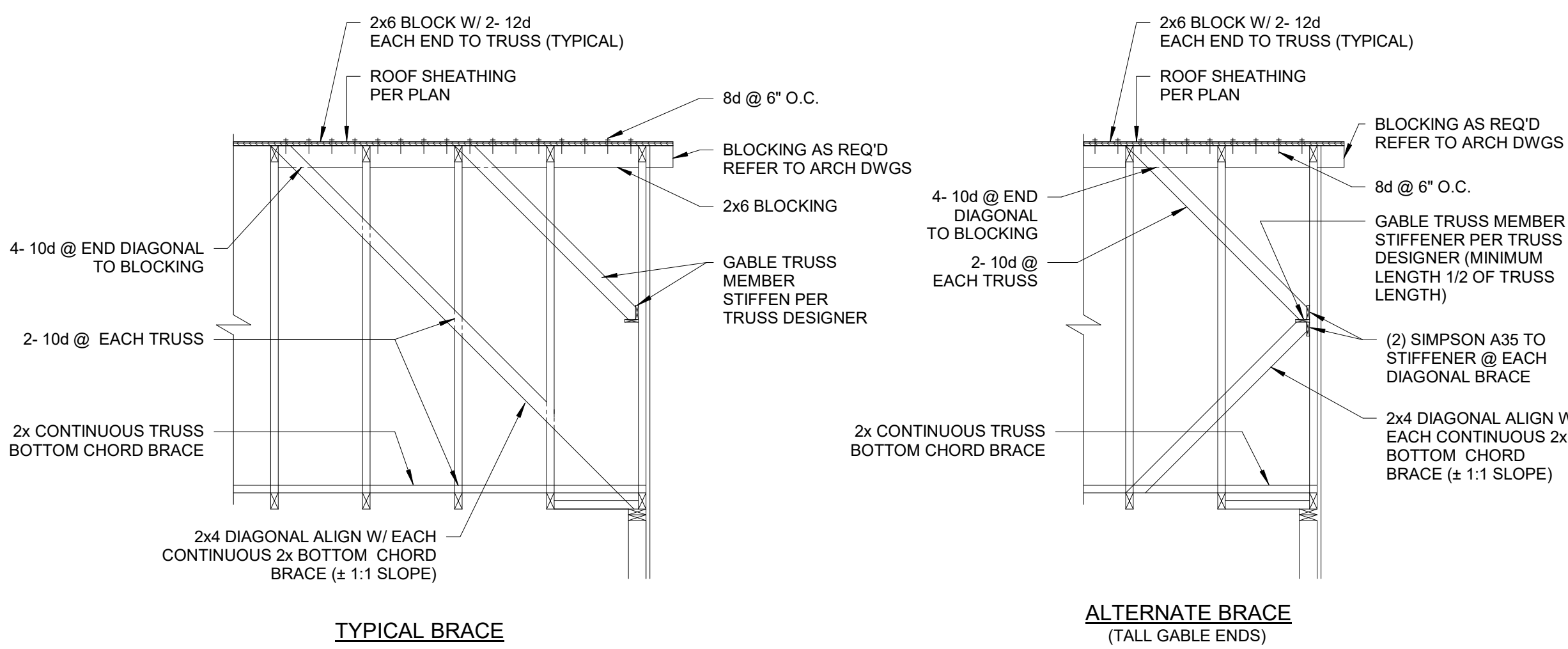
- NOTES:**
- TRUSS BRACING SHOWN MAY NOT REFLECT ALL REQUIRED BRACING (BOTH TEMPORARY AND PERMANENT) THAT IS REQUIRED TO COMPLETE THE TRUSS INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL BRACING IN ACCORDANCE WITH THESE DRAWINGS, THE TRUSS SHOP DRAWING AND THE BCSI MANUAL.
  - THE EXACT QUANTITY OF CONTINUOUS WEB BRACES SHALL BE DETERMINED FROM THE TRUSS SHOP DRAWINGS. A MINIMUM OF 2 CONTINUOUS WEB BRACES SHALL BE PROVIDED BETWEEN TRUSSES ON THE CENTERMOST COMPRESSION MEMBERS WHERE NO CONTINUOUS WEB BRACING IS NOTED ON THE TRUSS SHOP DRAWINGS.
  - TEMPORARY ERECTION BRACING IS NOT SHOWN HERE AND SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE BCSI MANUAL.



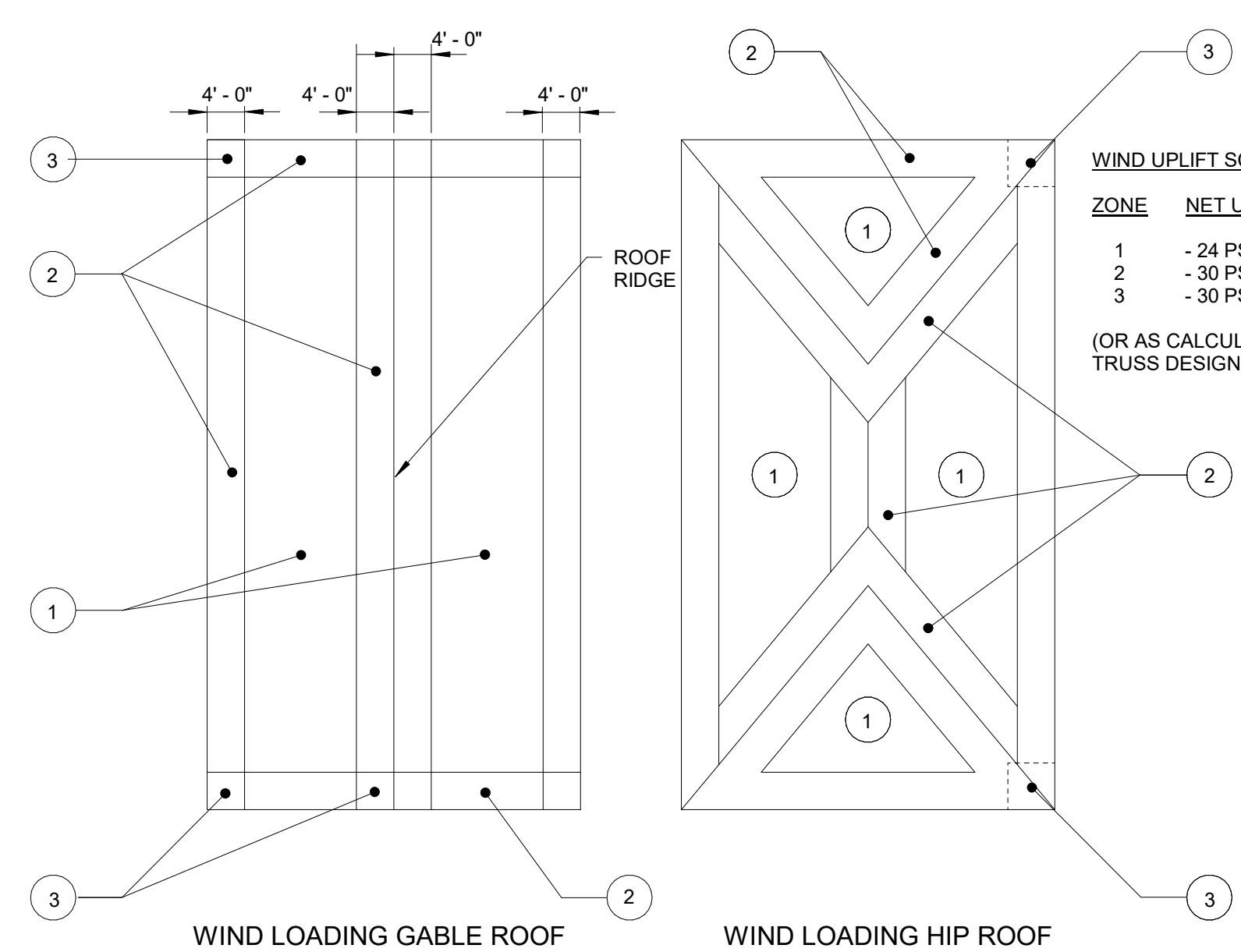
3 TYPICAL GABLE END BOTTOM CHORD BRACING  
S4.0 SCALE: 1/8" = 1'-0"



4 TYPICAL BOTTOM TRUSS CHORD BRACING PLAN  
S4.0 SCALE: 1/8" = 1'-0"



5 TYPICAL GABLE END BRACING DETAILS  
S4.0 SCALE: 1/8" = 1'-0"

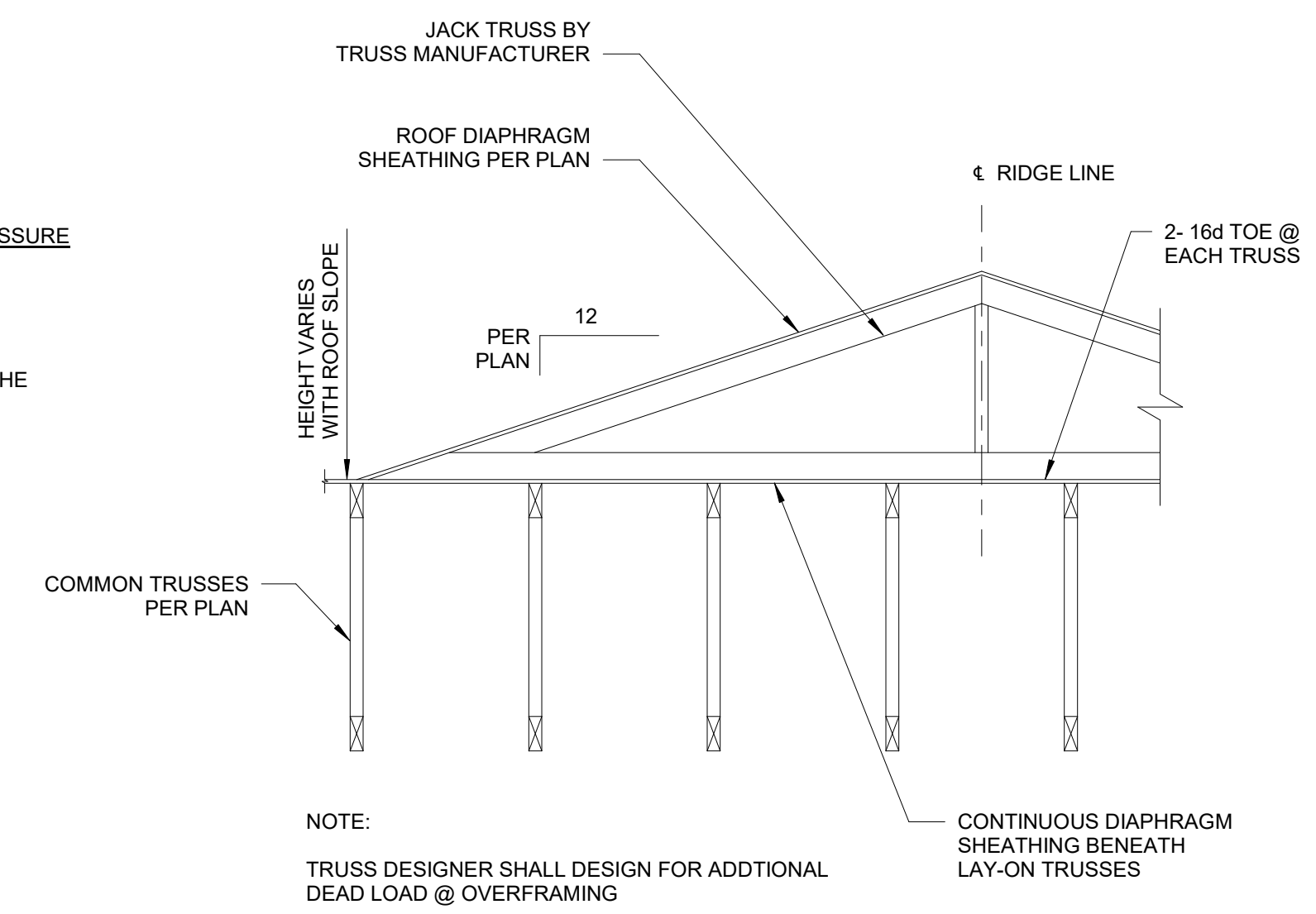


6 WIND UPLIFT PLAN  
S4.0 SCALE: 1/8" = 1'-0"

**WIND UPLIFT SCHEDULE:**

ZONE	NET UPLIFT PRESSURE
1	- 24 PSF
2	- 30 PSF
3	- 30 PSF

(OR AS CALCULATED BY THE TRUSS DESIGNER)



7 TYPICAL TRUSS OVERFRAMING DETAIL  
S4.0 SCALE: 3/16" = 1'-0"

ISSUED FOR BIDDING  
NOT FOR CONSTRUCTION

SESUIT HARBOR IMPROVEMENTS

CATALYST ARCHITECTURE & INTERIORS

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PROJECT NO:	C19676.01	
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DRAWN BY:	JWH	
DESIGNED/CHECKED BY:	MHP	
APPROVED BY:	JAB	

ROOF FRAMING SECTIONS

SCALE: AS SHOWN

S4.0

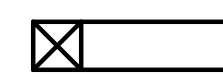
# GENERAL MECHANICAL NOTES

APPLICABLE TO ALL DRAWINGS

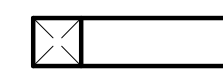
- THE HVAC SUBCONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR THE CEILING HEIGHTS WHICH SHALL BE MAINTAINED.
- THE HVAC SUBCONTRACTOR SHALL INVESTIGATE AVAILABLE SPACE FOR ALL EQUIPMENT IN CEILINGS BEFORE SUBMISSION OF SHOP DRAWINGS.
- HVAC SUBCONTRACTOR SHALL COORDINATE ALL DIFFUSER, REGISTER AND GRILLE LOCATIONS WITH REFLECTED CEILING PLANS, AND ANY RELOCATIONS DUE TO FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND/OR ENGINEER.
- ALL FIRE DAMPER RATINGS SHALL CORRESPOND TO THE FIRE RATING OF THE WALL IN WHICH THEY ARE LOCATED.
- ADEQUATE SIZE ACCESS PANELS SHALL BE FURNISHED AND INSTALLED FOR ALL EQUIPMENT REQUIRING SERVICE, MAINTENANCE AND REPLACEMENT FOR THE BALANCING OF VALVES AND FOR THE OPERATION OF HVAC SYSTEMS IN COORDINATION WITH THE GENERAL CONTRACTOR, AS PER THE SPECIFICATIONS.
- ALL EQUIPMENT DRAIN POINTS SHALL BE PIPED TO THE NEAREST FLOOR DRAIN.
- ALL PIPING RUNOUTS SHALL BE 3/4 INCH MINIMUM UNLESS OTHERWISE NOTED.
- DUCT SIZES INDICATED ON THE DRAWINGS ARE TO BE NET FREE AREA. ALL DUCTWORK SHALL BE CONSTRUCTED, INSTALLED AND SEALED (CLASS A), PER THE LATEST SMACNA REQUIREMENTS.
- ALL SQUARE ELBOWS AND BULLHEAD TEES SHALL HAVE TURNING VANES.
- GENERAL CONTRACTOR SHALL PROVIDE CURBS AROUND ALL DUCTWORK PENETRATIONS THROUGH THE ROOF.
- HVAC SUBCONTRACTOR SHALL SEAL THE DUCTWORK AND/OR PIPING PENETRATIONS THROUGH FIRE AND/OR SMOKE RATED WALLS WITH APPROVED FIRE STOP MATERIAL.
- PARTICULAR ATTENTION SHOULD BE PAID TO ADDITIONAL NOTES SHOWN ON THE INDIVIDUAL DRAWINGS.
- THE DUCTWORK AND PIPING SYSTEMS SHOWN ON THE DRAWINGS ARE SHOWN DIAGRAMMATICALLY WITHOUT EVERY OFFSET AND TRANSITION REQUIRED TO INSTALL THE WORK. OBVIOUS OFFSETS AND TRANSITIONS, AS RELATED TO HVAC, ARE SHOWN WHERE POSSIBLE WITHOUT AFFECTING THE CLARITY OF THE DRAWINGS.
- ALL PIPING AND DUCTWORK SHALL BE RUN ABOVE THE CEILINGS UNLESS NOTED OTHERWISE.
- ALL THERMOSTATS TO BE MOUNTED ABOVE LIGHT SWITCHES ON SAME CENTERLINE, 4'-0" ABOVE FINISHED FLOOR WHERE APPLICABLE, OR OTHERWISE NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
- THE FIRST FOUR (4'-0") FEET OF DUCTWORK BEHIND ANY DIFFUSER, GRILLE OR REGISTER SHALL BE PAINTED FLAT BLACK.
- ALL MATERIALS INSTALLED IN THIS WORK SHALL BE NEW UNLESS SPECIFICALLY NOTED FOR RE-USE.
- ALL WORK PERFORMED SHALL BE GUARANTEED FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER, UNLESS SUCH DEFECTS ARE CLEARLY THE RESULT OF MISUSE OF EQUIPMENT BY PERSONS NOT UNDER THE CONTROL OF THE SUBCONTRACTOR.
- THE HVAC SUBCONTRACTOR SHALL OBTAIN INSTALLATION INSTRUCTIONS ON EACH PIECE OF EQUIPMENT TO BE FURNISHED WHICH THE HVAC SUBCONTRACTOR IS REQUIRED TO INSTALL OR TO WHICH FINAL CONNECTIONS ARE TO BE MADE UNDER THE HVAC CONTRACT. THE HVAC SUBCONTRACTOR SHALL INSTALL AND MAKE FINAL CONNECTIONS PER THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. THE CONTRACTOR SHALL DEMONSTRATE TO THE OWNER THAT THE INSTALLED EQUIPMENT OPERATES AS DESIGNED.
- ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE INSTALLATION IS MADE.
- COORDINATE ALL MOTORS, STARTERS, DISCONNECT AND SMOKE DETECTOR REQUIREMENTS WITH ELECTRICAL SUBCONTRACTOR FOR ALL EQUIPMENT REQUIRING SAME.
- ALL EQUIPMENT TO BE INSTALLED EXPOSED IN FINISHED AREAS (REGISTERS, GRILLES, DIFFUSERS, ETC.) SHALL BE LOCATED AS INDICATED ON THE ARCHITECTURAL DRAWINGS. FINAL LOCATIONS SHALL BE AS SELECTED BY THE ARCHITECT UNLESS OTHERWISE NOTED.
- ALL EQUIPMENT TO BE INSTALLED EXPOSED IN FINISHED AREAS (REGISTERS, GRILLES, DIFFUSERS, ETC.) SHALL HAVE COLORS SELECTED BY THE ARCHITECT UNLESS OTHERWISE NOTED.
- ALL HVAC EQUIPMENT SHALL BE INSTALLED, COORDINATED WITH ALL TRADES, IN SUCH A WAY SO THAT LIGHTS, CONDUITS, SPRINKLERS, SUPPLY AND/OR DRAIN PIPING DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.
- FOR LOCATION OF OPENINGS IN ROOF, SEE ARCHITECTURAL DRAWINGS. FINAL OPENING SIZES SHALL SUIT APPROVED SHOP DRAWINGS.
- THE HVAC CONTRACTOR SHALL FURNISH ALL SUPPORT STEEL REQUIRED FOR THE INSTALLATION OF HVAC EQUIPMENT, UNLESS OTHERWISE INDICATED.
- THE HVAC CONTRACTOR SHALL FIELD MEASURE ALL DUCT RUNS PRIOR TO FABRICATING DUCTWORK. FURNISH AND INSTALL ALL DUCT TRANSITIONS, ELBOWS, FITTINGS AND OFFSETS REQUIRED TO ACCOMMODATE FIELD CONDITIONS.
- ALL PIPING ENCLOSED WITHIN WALLS, CEILINGS OR FLOORS SHALL BE LEAK TESTED PRIOR TO BEING CONCEALED.
- THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING AND STAGING REQUIRED FOR THE INSTALLATION OF THE HVAC SYSTEMS.
- UNDERCUT DOORS AND DOOR LOUVERS ARE BY THE GENERAL CONTRACTOR.
- ALL CEILING-MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS, PIPING AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.
- HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHEETMETAL TRANSITIONS AT AIR TERMINAL UNITS, FANS, COILS AND OTHER SIMILAR HVAC EQUIPMENT.
- THE HVAC CONTRACTOR SHALL PROVIDE REMOTE THERMOSTATS FOR EACH HORIZONTAL UNIT HEATER, CABINET UNIT HEATER, FINNED TUBE RADIATION, WALL HEATER, AND CONVECTOR. ALL THERMOSTATS SHALL BE PROVIDED WITH TAMPER-PROOF PLASTIC GUARDS.
- FURNISH AND INSTALL FIRE DAMPERS AT ALL DUCT FLOOR PENETRATIONS.
- FURNISH AND INSTALL FIRE DAMPERS AT ALL 2 HR FIRE RATED WALLS.
- ALL ROOF O.A. INTAKES FOR HORIZONTAL UNIT VENTILATORS SHALL BE PROVIDED WITH A "LOW LEAK" AUTOMATIC CONTROL DAMPER MOUNTED IN THE DUCTWORK IMMEDIATELY BELOW THE ROOF.
- HVAC EQUIPMENT WITH FANS TO BE PROVIDED WITH FLEXIBLE CONNECTIONS ON INLET AND DISCHARGE OF FAN TO DUCTWORK.
- REFRIGERANT PIPE SIZES PER UNIT MANUFACTURERS RECOMMENDATIONS.
- PROVIDE DUCT ACCESS PANELS AT ALL FIRE DAMPER LOCATIONS.
- DUCT SIZES INDICATED ON DRAWINGS ARE TO BE NET FREE AREA.
- PITCH ALL HORIZONTAL CONDENSATE DRAIN LINES 1/8" PER FOOT OF RUN.
- ALL SQUARE ELBOWS AND BULL HEAD TEES SHALL HAVE TURNING VANES.
- DROP CONDENSATE DRAIN PIPES DOWN IN WALL ON WARM SIDE OF INSULATION.
- DUCT DIMENSIONS SHOWN ON ACOUSTICALLY LINED DUCTWORK ARE FOR CLEAR INSIDE DIMENSION AFTER APPLICATION OF LINER.
- ALL DIFFUSERS AND REGISTERS IN WET AREAS, (LOCKER ROOMS, TOILETS, SHOWERS, JAN. CLOSETS, ETC.) SHALL BE OF ALUMINUM CONSTRUCTION.

## SHEETMETAL

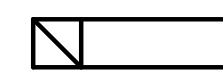
DOUBLE LINE



SUPPLY AIR DUCT TURN TOWARD



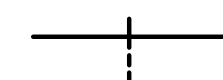
SUPPLY AIR DUCT TURN AWAY



RETURN / EXH. AIR DUCT TURN TOWARD



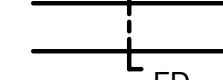
RETURN / EXH. DUCT TURN AWAY



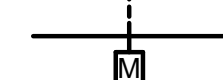
VOLUME DAMPER



AUTOMATIC CONTROL DAMPER



FIRE DAMPER



MOTORIZED DAMPER



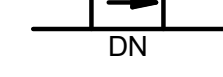
BRANCH TAKE OFF



DUCT W/ 1" ACOUSTICAL LINER



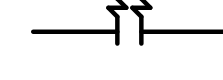
DUCT ELBOW W/ TURNING VANES



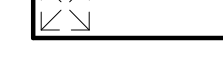
DUCT OFFSET UP OR DOWN (ARROW INDICATES DIRECTION OF FLOW)



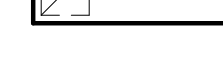
FLEXIBLE DUCT



GRAPHIC BREAK &/OR CONTINUATION OF DUCT OR PIPING



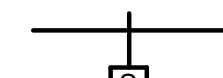
SUPPLY DIFFUSER OR GRILLE



RETURN/EXHAUST REGISTER OR GRILLE

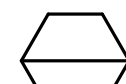


VARIABLE AIR VOLUME TERMINAL BOX WITH HOT WATER REHEAT COIL



DUCT MOUNTED SMOKE DETECTOR FURNISHED AND WIRED UNDER SECTION 16000 INSTALLED UNDER SECTION 15500

## GENERAL



EQUIPMENT DESIGNATION

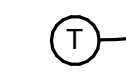


SECTION NO.

SECTION DESIGNATION



DWG. NO.



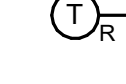
THERMOSTAT - MOUNT 48" A.F.F.



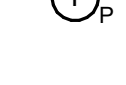
REMOTE SET POINT SPACE TEMPERATURE CONTROLLER



STATIC PRESSURE SENSOR



REVERSE ACTING THERMOSTAT



PROGRAMMABLE THERMOSTAT



UNDERCUT DOOR

## ABBREVIATIONS

AD	ACCESS DOOR	GV	GRAVITY VENTILATOR
AFG	ABOVE FINISHED GRADE	H	HUMIDIFIER
AFF	ABOVE FINISHED FLOOR	HVAC	HEATING, VENTILATING & AIR CONDITIONING CONTRACTOR
AHU	AIR HANDLING UNIT	HUH	HORIZONTAL UNIT HEATER
AP	ACCESS PANEL	HX	HEAT EXCHANGER
ATC	AUTOMATIC TEMPERATURE CONTROL CONTRACTOR	LAT	LEAVING AIR TEMP. DEGREES F.
CFM	CUBIC FEET PER MINUTE	LWT	LEAVING WATER TEMP. DEGREES F.
CUH	CABINET UNIT HEATER	MAX	MAXIMUM
CO	CLEAN OUT	MIN	MINIMUM
CP	CONDENSATE PUMP	OA	OUTSIDE AIR
CV	CONVECTOR	P	PUMP
DB	DRY BULB TEMP. DEGREES F.	PC	PLUMBING CONTRACTOR
E	EXHAUST AIR DEVICE	PD	PRESSURE DROP (FEET OF WATER)
EAT	ENTERING AIR TEMP. DEGREES F.	R	RETURN AIR DEVICE
EC	ELECTRICAL CONTRACTOR	RF	RETURN FAN
ECUH	ELECTRIC CABINET UNIT HEATER	RH	REHEAT COIL
EF	EXHAUST FAN	S	SUPPLY AIR DEVICE
EUH	ELECTRIC UNIT HEATER	SA	SOUND ATTENUATOR
EV	EXHAUST VALVE	TB	TERMINAL BOX
EWT	ENTERING WATER TEMP. DEGREES F.	UH	UNIT HEATER
FCU	FANCOIL UNIT	VFD	VARIABLE FREQUENCY DRIVE
FT	FINTUBE (RADIATION)	WB	WET BULB TEMP. DEGREES F.
GC	GENERAL CONTRACTOR	WMS	WIRE MESH SCREEN
GPM	GALLONS PER MINUTE		

## VALVES

	GATE VALVE
	GATE VALVE W/ HOSE BIBB END
	BALANCING VALVE
	BUTTERFLY VALVE
	2-WAY CONTROL VALVE
	"Y" STRAINER
	"Y" STRAINER W/ BLOW DOWN, H.W. SYSTEMS
	PIPE ANCHOR
	PIPE GUIDE
	FLOW MEASURING DEVICE
	AUTOMATIC AIR ELIMINATOR
	MANUAL AIR ELIMINATOR
	BALL VALVE
	PIPE TURN AWAY
	PIPE TURN TOWARDS
	UNION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	CAPPED PIPE
	SIDE CONNECTION
	BOTTOM CONNECTION 45 OR 90 DEGREES
	TOP CONNECTION 45 OR 90 DEGREES
	COMBINATION BALANCING SHUT-OFF
	EXPANSION COMPENSATOR

## PIPING

	DRAIN
	PITCH DOWN IN DIRECTION OF ARROW
	DIRECTION OF FLOW
	PIPE STUB UP TO UNIT ON FLOOR ABOVE
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION

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**SESUIT HARBOR IMPROVEMENTS**  
**TOWN OF DENNIS**  
**351 SESUIT HARBOR ROAD**  
**DENNIS, MA 02660**

TITLE:  
**MECHANICAL**  
**LEGEND &**  
**GENERAL NOTES**

DATE ISSUED: 08 . 01 . 2025

REVISIONS:

No.	Description	Date
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DRAWING NO.:

**M0.01**



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**SESUIT HARBOR IMPROVEMENTS**  
**TOWN OF DENNIS**  
351 SESUIT HARBOR ROAD  
DENNIS, MA 02660

TITLE:  
**MECHANICAL  
HARBORMASTER  
GARAGE -  
DUCTWORK  
FLOOR PLAN**

DATE ISSUED:  
08 . 01 . 2025

REVISIONS:  
No. Description Date

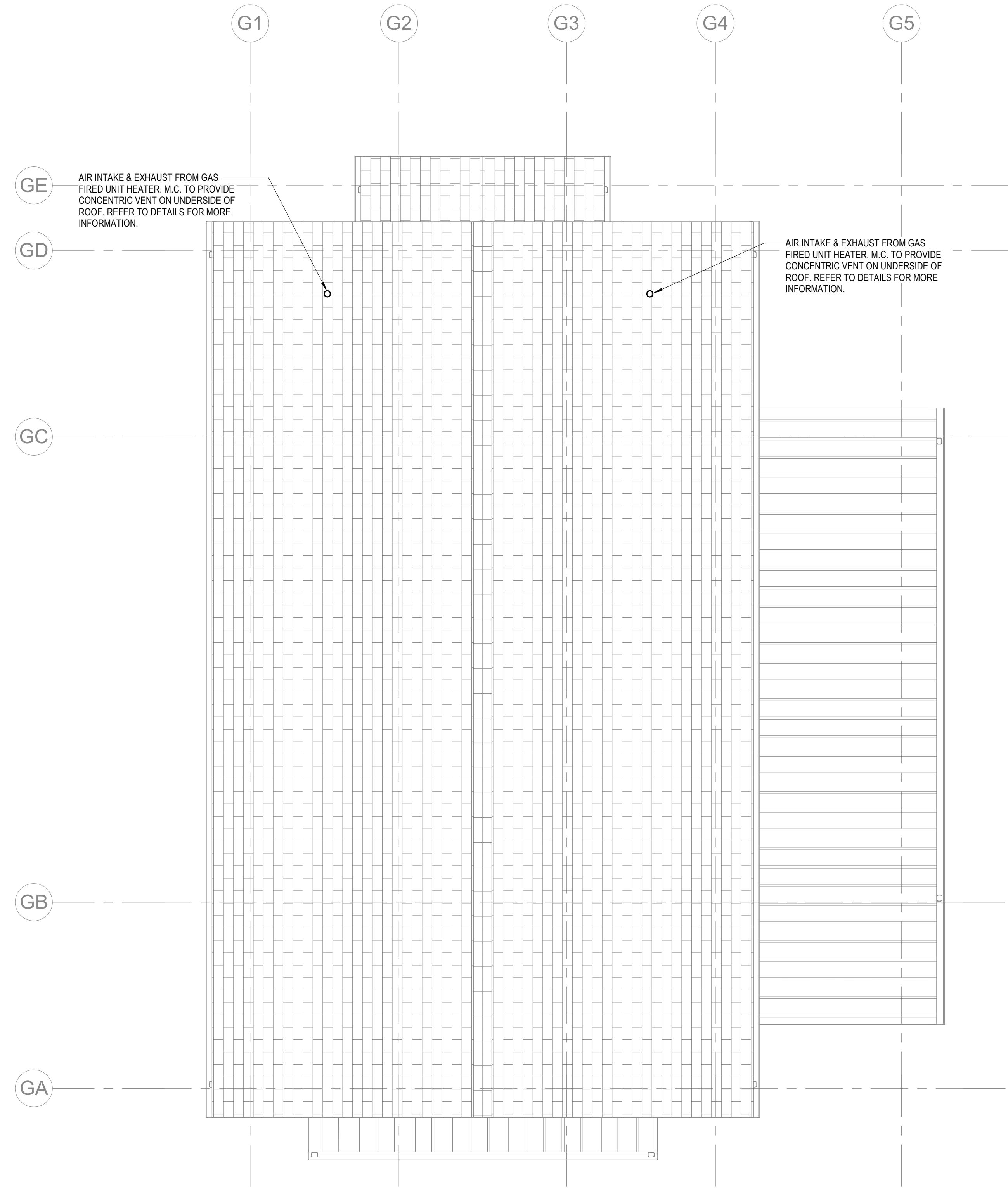
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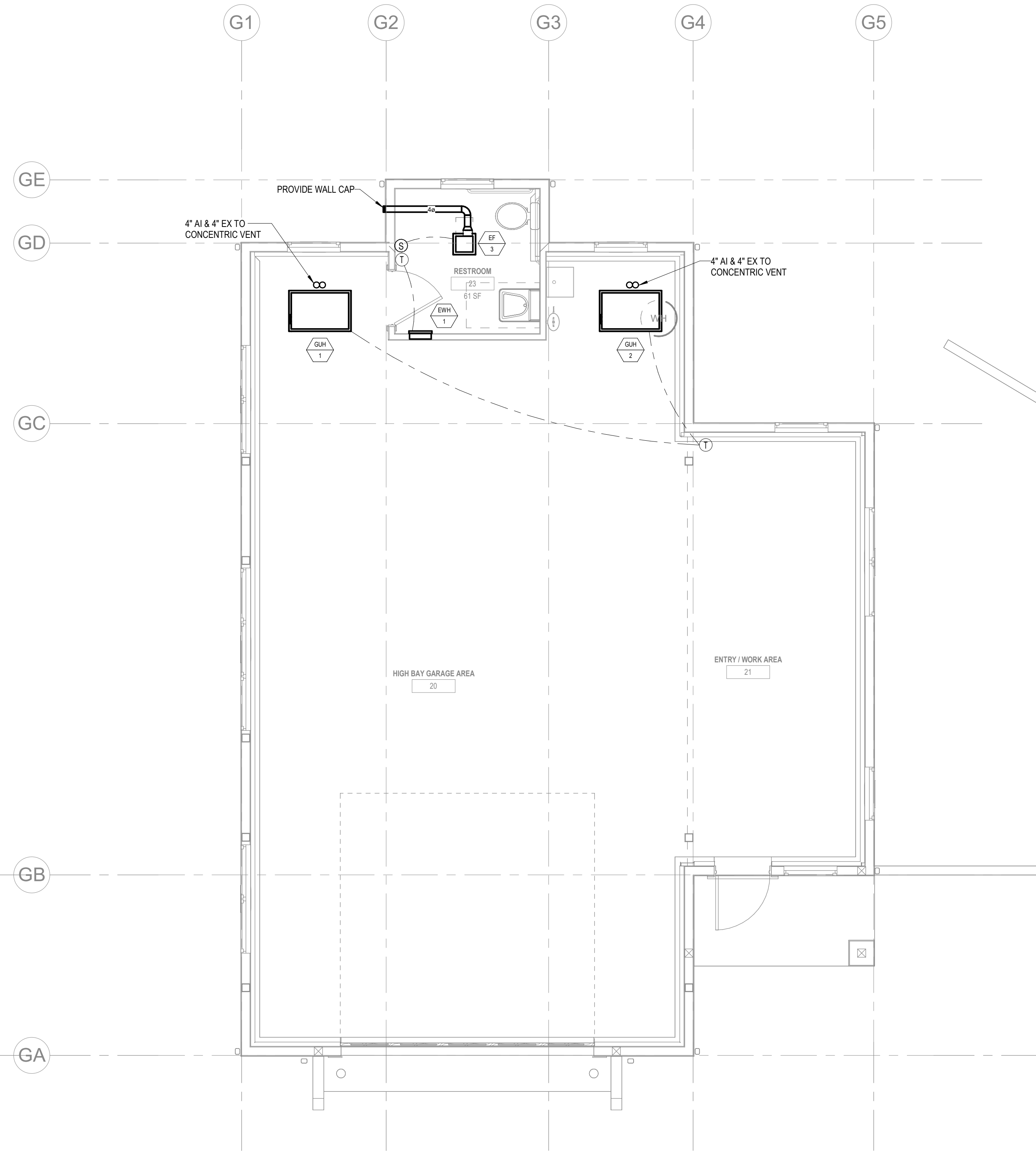


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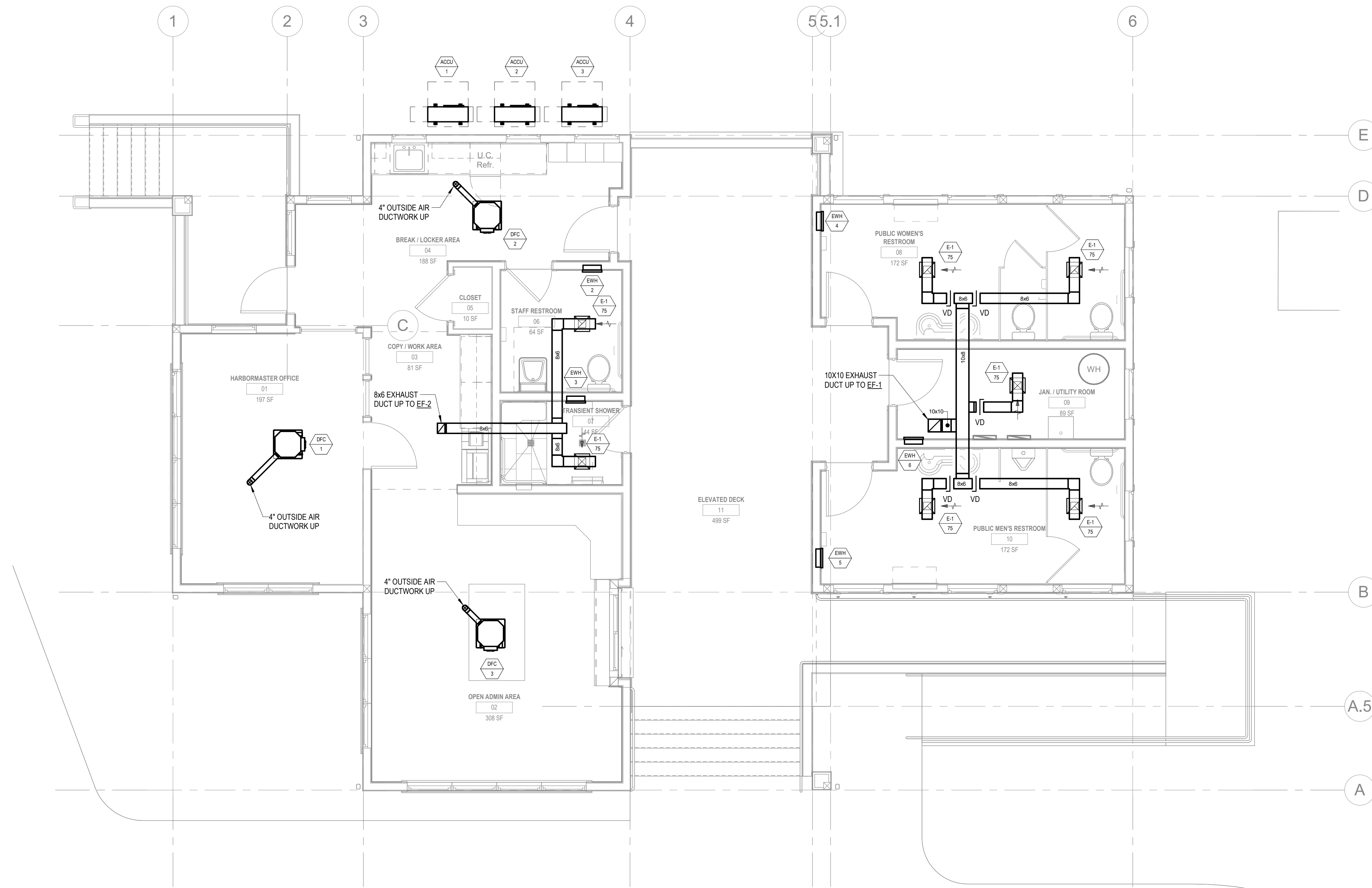
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**2** HARBORMASTER GARAGE - MECH ROOF PLAN  
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**1** HARBORMASTER GARAGE - DUCTWORK FLOOR PLAN  
Scale: 1/4" = 1'-0"



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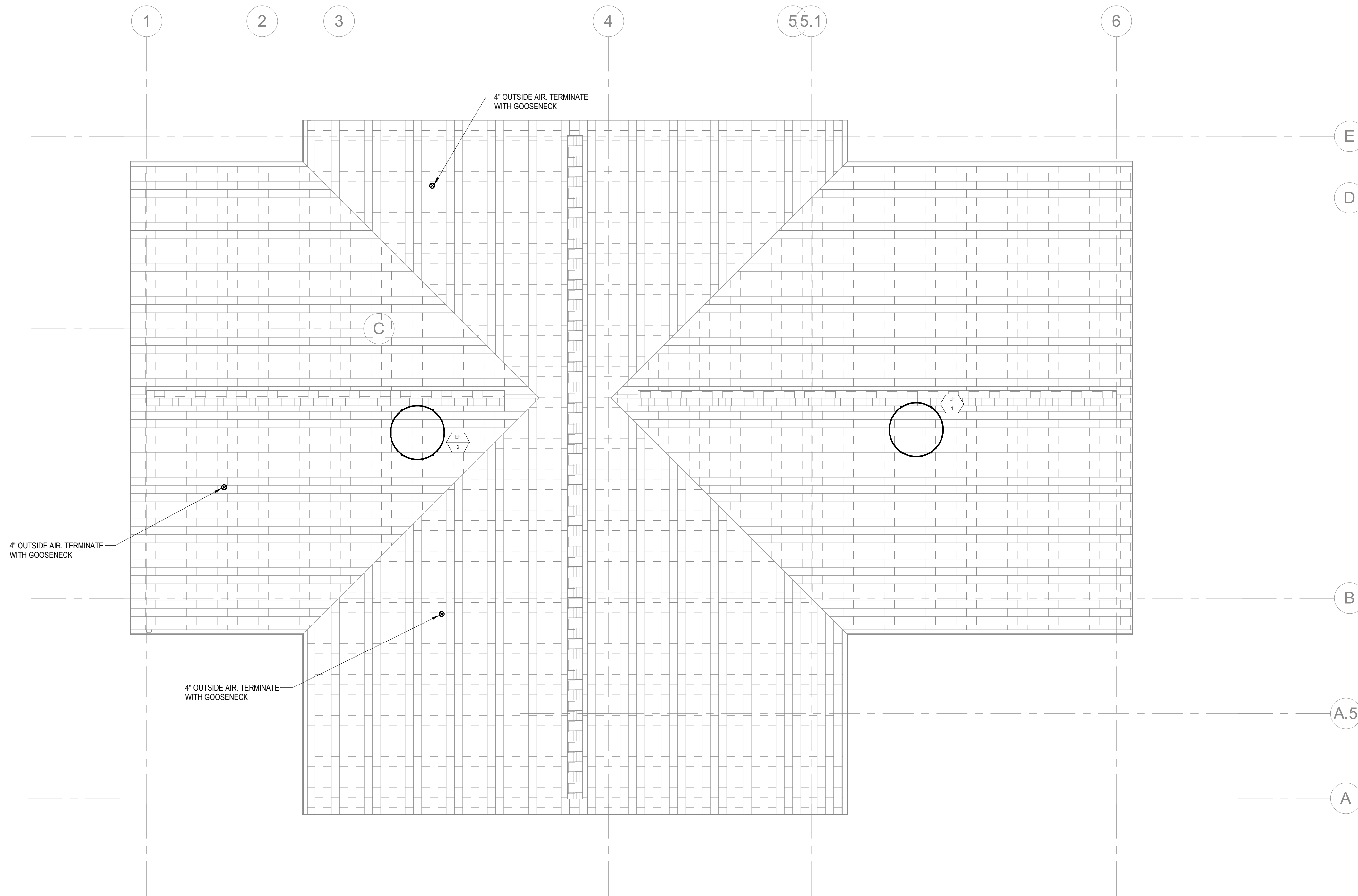
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OFFICE - ROOF  
PLAN**

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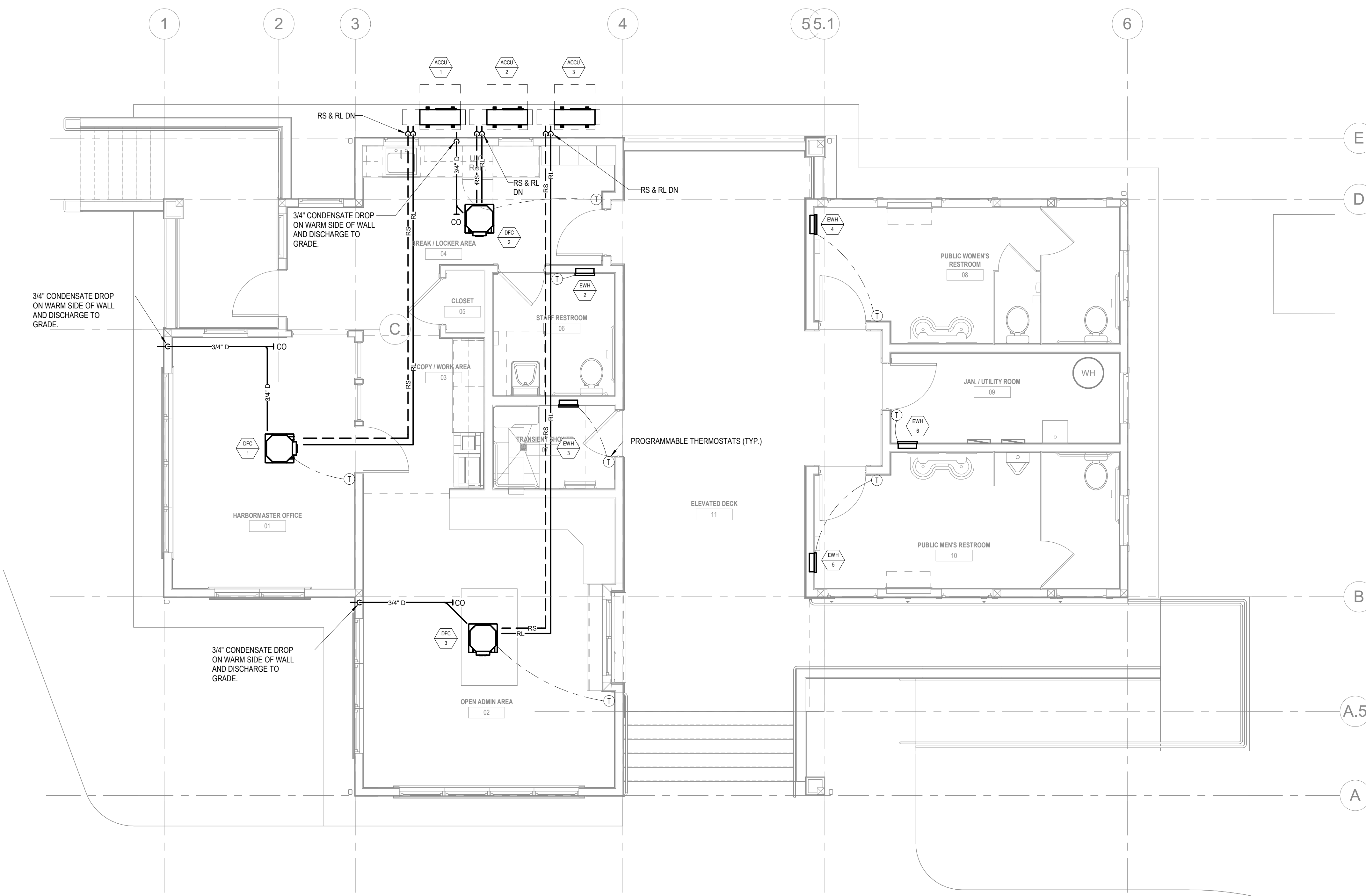
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TITLE:  
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OFFICE - PIPING  
FLOOR PLAN**

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**MECHANICAL SCHEDULES & DETAILS**

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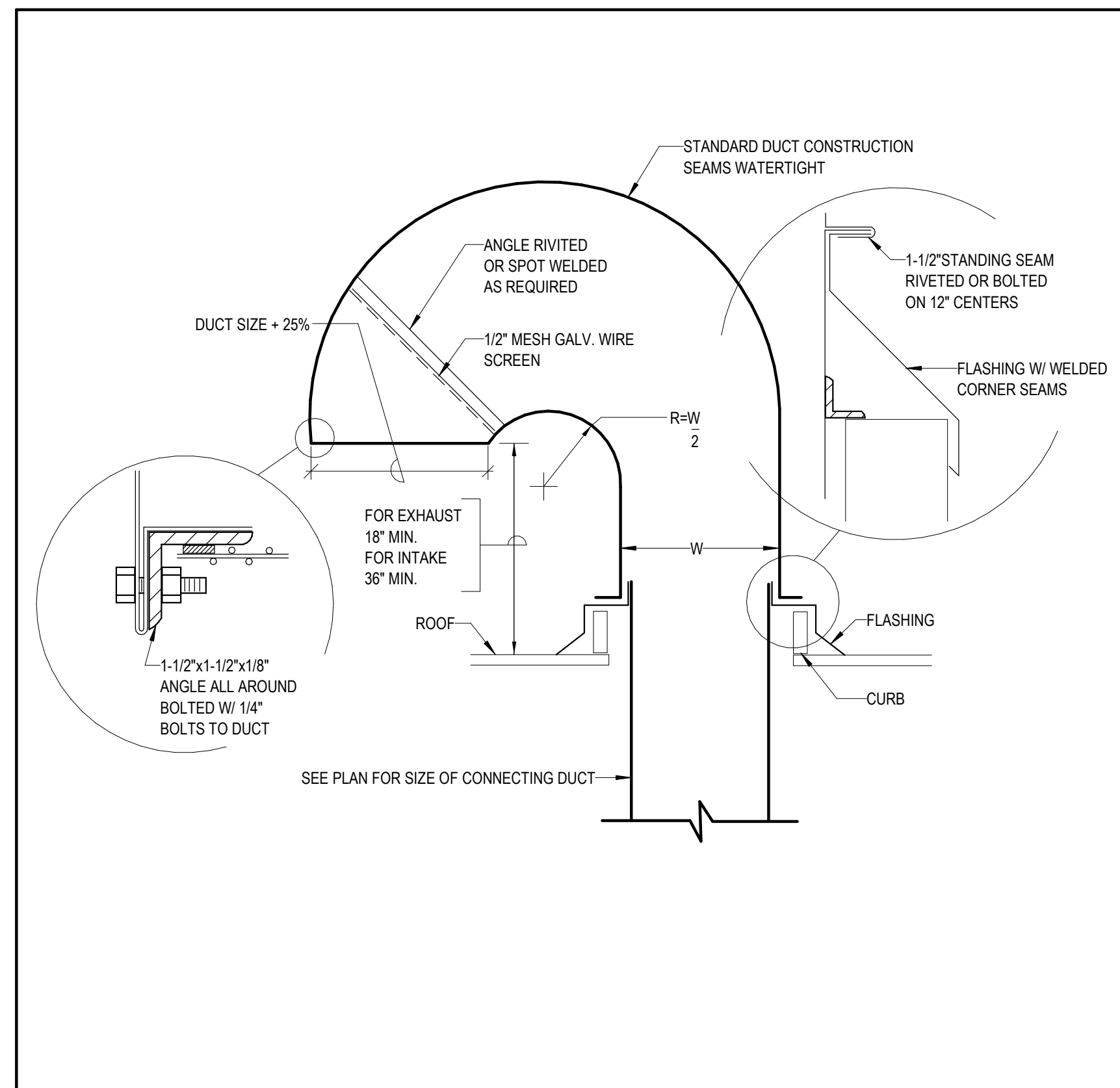
DUCTLESS SPLIT-TYPE AIR CONDITIONER SCHEDULE														
ITEM	MFG'R	INDOOR UNIT/ OUTDOOR UNIT MODEL	COOLING CAP. TOTAL MBH	INDOOR ELEC. DATA			OUTDOOR COMP. DATA		OUTDOOR ELEC. DATA			SEER	CFM	REMARKS
				VOLTS	Ø	Hz	MCA	MOCp	VOLTS	Ø	Hz			
DFC-1/ACCU-1	MITSUBISHI	SLZ-AF09NL / SUZ-AA09NLHZ	9	208	1	60	24	41	208	1	60	16.6	300	
DFC-2/ACCU-2	MITSUBISHI	SLZ-AF09NL / SUZ-AA09NLHZ	9	208	1	60	24	41	208	1	60	16.6	300	
DFC-3/ACCU-3	MITSUBISHI	SLZ-AF09NL / SUZ-AA09NLHZ	9	208	1	60	24	41	208	1	60	16.6	300	

EXHAUST FAN SCHEDULE														
ITEM	MFG'R	MODEL	DRIVE	SERVICE	INTERLOCK	CFM	SP IN. WC.	HP	FAN RPM	ELECTRICAL DATA			SONES	REMARKS
										V	PH	HZ		
EF-1	GREENHECK	G-090-VG	DIRECT	GANG BATHROOMS	TIME CLOCK	375	0.25	1/10	1725	120	1	60	4.6	
EF-2	GREENHECK	G-060-VG	DIRECT	STAFF BATHROOMS	TIME CLOCK	150	0.25	1/15	1725	120	1	60	4.5	
EF-3	GREENHECK	SP-AP0511W	DIRECT	GARAGE BATHROOM	SWITCH	75	0.25	-	817	120	1	60	0.9	

① FURNISH 7-DAY DIGITAL PROGRAMMABLE TIME CLOCK, DIV. 28000 TO INSTALL

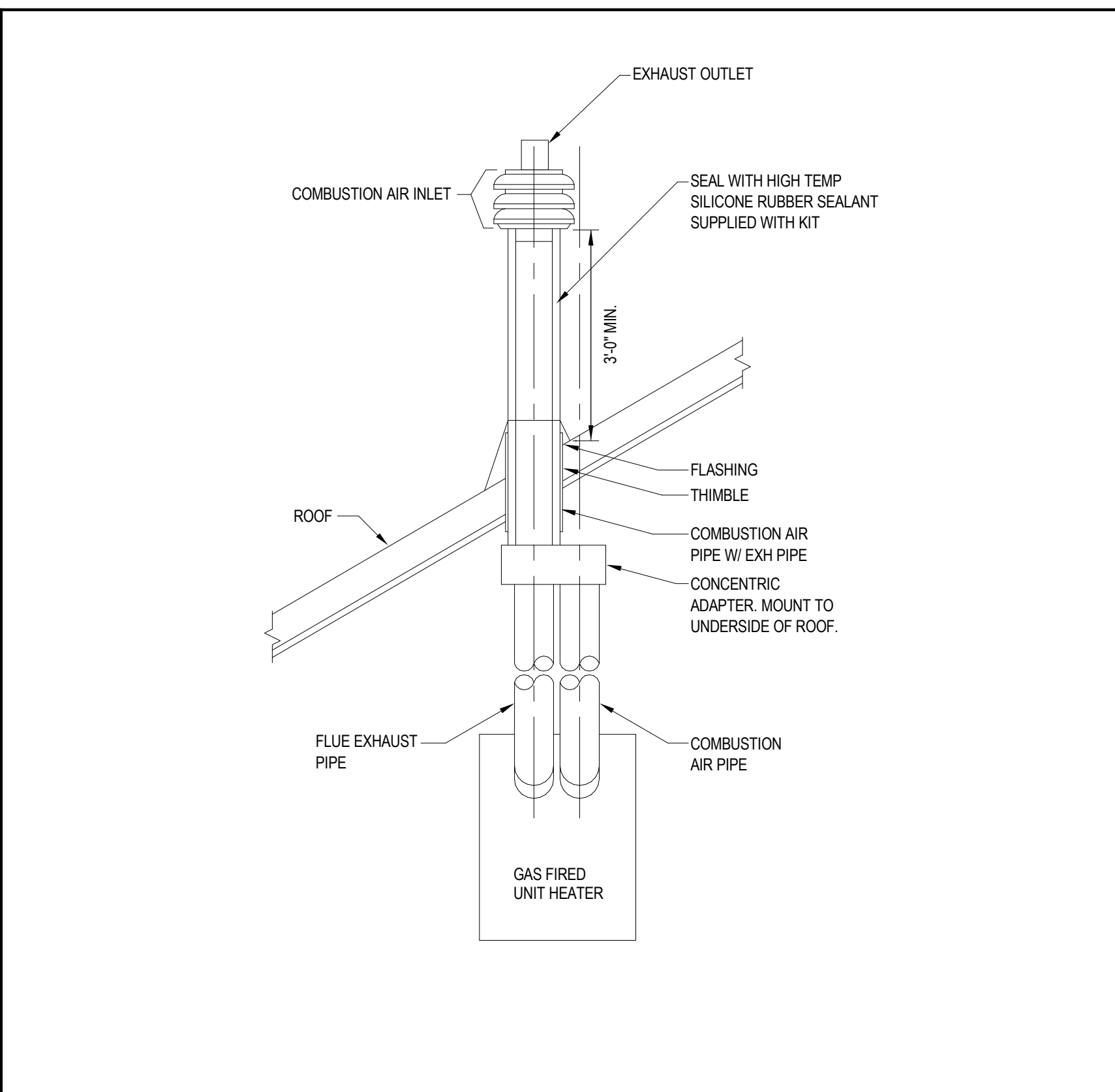
GAS-FIRED UNIT HEATER SCHEDULE											
ITEM	MFG'R	MODEL	CFM	GAS TYPE	MBH INPUT	MBH OUTPUT	AIR TEMP. RISE	FAN DATA			REMARKS
								HP	VOLT	PHASE	
GUH-1	REZNOR	UBXC	1012	NATURAL GAS	60	49.2	70	1/3	120	1	
GUH-2	REZNOR	UBXC	1012	NATURAL GAS	60	49.2	70	1/3	120	1	

ELECTRIC WALL HEATER SCHEDULE							
ITEM	MFG'R	MODEL	ELEC. HEAT DATA			SERVICE	REMARKS
			KW	VOLT	PHASE		
EWH-1	QMARK	AWH3150F	1.5	120	1	GARAGE BATHROOM	
EWH-2	QMARK	AWH3150F	1.5	120	1	BATHROOM 06	
EWH-3	QMARK	AWH3150F	1.5	120	1	SHOWER 07	
EWH-4	QMARK	AWH3180F	1.8	120	1	WOMENS BATHROOM	
EWH-5	QMARK	AWH3180F	1.8	120	1	MENS BATHROOM	
EWH-6	QMARK	AWH3150F	1.5	120	1	UTILITY ROOM	

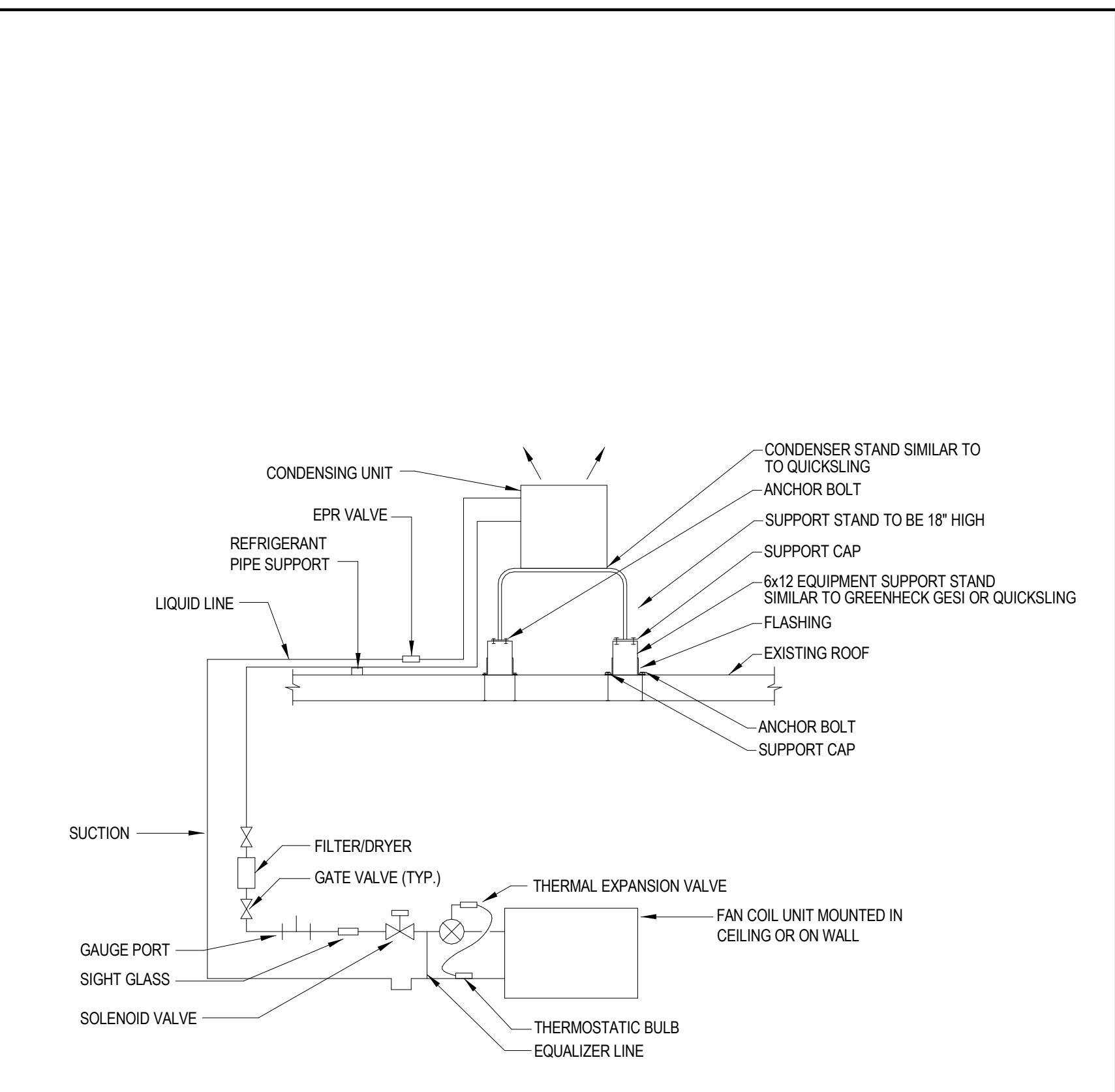


- NOTES:**
- SEE ARCHITECTURAL DRAWINGS &/OR SPECIFICATIONS FOR CURB, FLASHING & ROOFING.
  - WHEN WOOD PLATE IS PROVIDED AROUND TOP OF CURB, SECURE FLASHING & GOOSENECK TO WOOD PLATE WITH 3/8" CADMIUM PLATED LAG BOLTS NOT OVER 12" ON CENTERS.
  - WHEN PREFAB. METAL CURB IS USED, SECURE FLASHING & GOOSENECK WITH SHEET METAL SCREWS AS REQUIRED FOR TIGHT JOINTS & RIGID INSULATION.

1 GOOSENECK DETAIL SCALE NOT TO SCALE



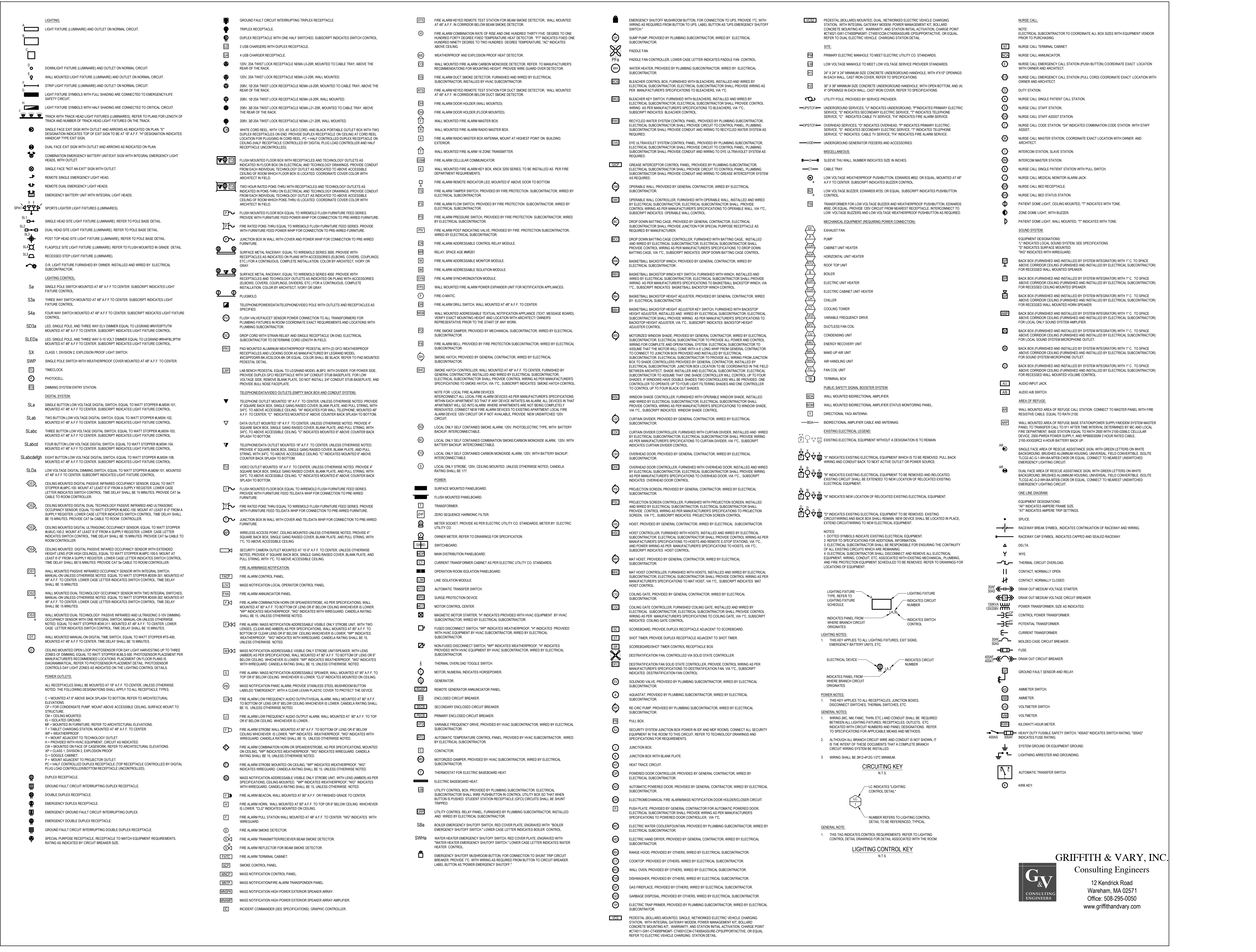
2 FLUE PIPING ROOF PENETRATION DETAIL SCALE NOT TO SCALE



3 DUCTLESS FAN COIL AIR CONDITIONING UNIT & PIPING DETAIL SCALE NOT TO SCALE



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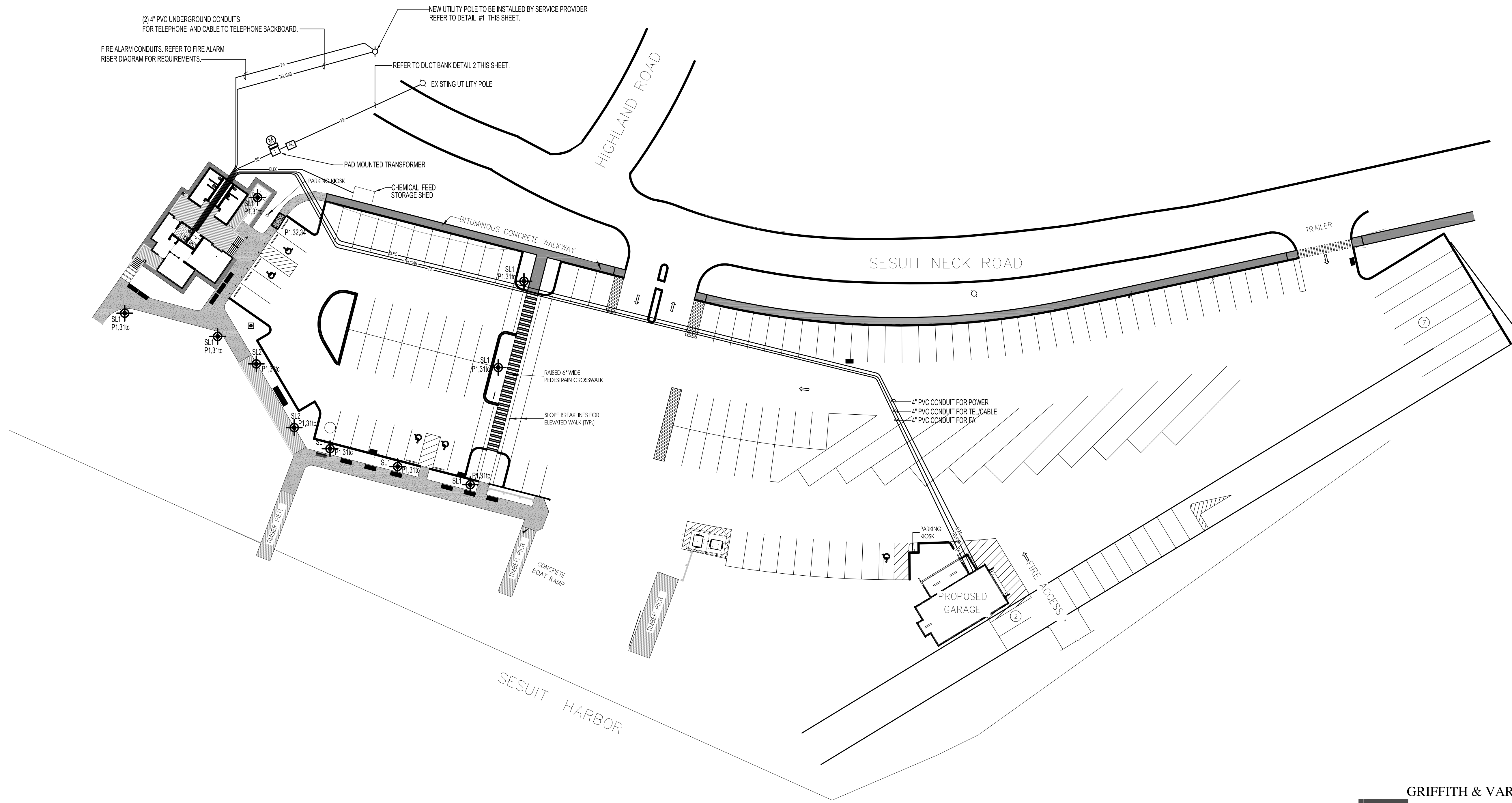
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## LED SITE LIGHTING FIXTURE SCHEDULE

- NOTES:**
1. LIGHTING FIXTURES SHALL BE FURNISHED COMPLETE WITH ALL HARDWARE, LAMPS, HANGERS, ACCESSORIES, ETC. FOR A COMPLETE AND PROPER INSTALLATION.
  2. LIGHTING FIXTURES SHALL CONFORM TO THE REQUIREMENTS OF THE ELECTRIC UTILITY CO. REBATE PROGRAM, WHERE APPLICABLE.
  3. MOUNTING ABBREVIATIONS: "RW" = RECESSED IN WALL, "SW" = SURFACE/WALL, "P" = POLE, "G" = GROUND, "T" = POST TOP.
  4. REFER TO TECHNOLOGY DRAWINGS, COORDINATE EXACT MOUNTING LOCATION AND ORIENTATION OF ALL CAMERAS AND ASSOCIATED MOUNTING ARMS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
  5. POLE LENGTH SHALL BE AS REQUIRED SO THAT BOTTOM OF LIGHTING FIXTURE IS AT 30' ABOVE FINISHED GRADE, TAKING INTO ACCOUNT LIGHTING FIXTURE, ARM, POLE, POLE BASE, AND CONCRETE POLE BASE. PROVIDE ELEVATION INCLUDING ALL DIMENSIONS DURING SUBMITTAL PHASE FOR REVIEW.
  6. POLE LENGTH SHALL BE AS REQUIRED SO THAT BOTTOM OF LIGHTING FIXTURE IS AT 12' ABOVE FINISHED GRADE, TAKING INTO ACCOUNT LIGHTING FIXTURE, ARM, POLE, POLE BASE, AND CONCRETE POLE BASE. PROVIDE ELEVATION INCLUDING ALL DIMENSIONS DURING SUBMITTAL PHASE FOR REVIEW.
  7. LIGHTING FIXTURE WILL DIM TO 50% POWER, 50% LIGHT OUTPUT, PER DIMMING PROFILE. IF MOTION IS DETECTED DURING THE TIME THAT THE LIGHTING FIXTURE IS OPERATING AT 50%, THE LIGHTING FIXTURE GOES TO 100% POWER AND LIGHT OUTPUT. THE LIGHTING FIXTURE REMAINS ON HIGH UNTIL NO MOTION IS DETECTED FOR THE DURATION PERIOD, AFTER WHICH THE LIGHTING FIXTURE RETURNS TO LOW. DURATION PERIOD IS SET AT FACTORY TO 15 MINUTES.

TYPE	MANUFACTURER	CATALOG NUMBER	VOLTAGE	MOUNTING	WATTAGE	TOTAL LUMENS	COLOR TEMP.	DIMMING (%)	BUG	DISTRIBUTION TYPE	DESCRIPTION/REMARKS	COLOR/ FINISH
SL1	BIEBER ILLUMINATION	RLM-14-20W-LED-120V-4-JELLY JAR-A-ATO7-BK-P-3R-AB10-TN	UNV	P	20	2000	4000K	N/A	B1 U0 G1	N/A	17" DIAMETER SHADE, MOUNTED ON A 12'-0" ALUMINUM WITH MARINE GRADE PAINED POLE.	CBA
SL2	BIEBER ILLUMINATION	RLM-14-20W-LED-120V-4-JELLY JAR-A-ATO7-BK-CUSTOM 69" MOUNTING	UNV	P	20	2000	4000K	N/A	B1 U0 G1	N/A	17" DIAMETER SHADE, MOUNTED ON A 69" ALUMINUM WITH MARINE GRADE PAINED POLE.	CBA



ELECTRICAL SITE PLAN

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### ELECTRICAL SITE

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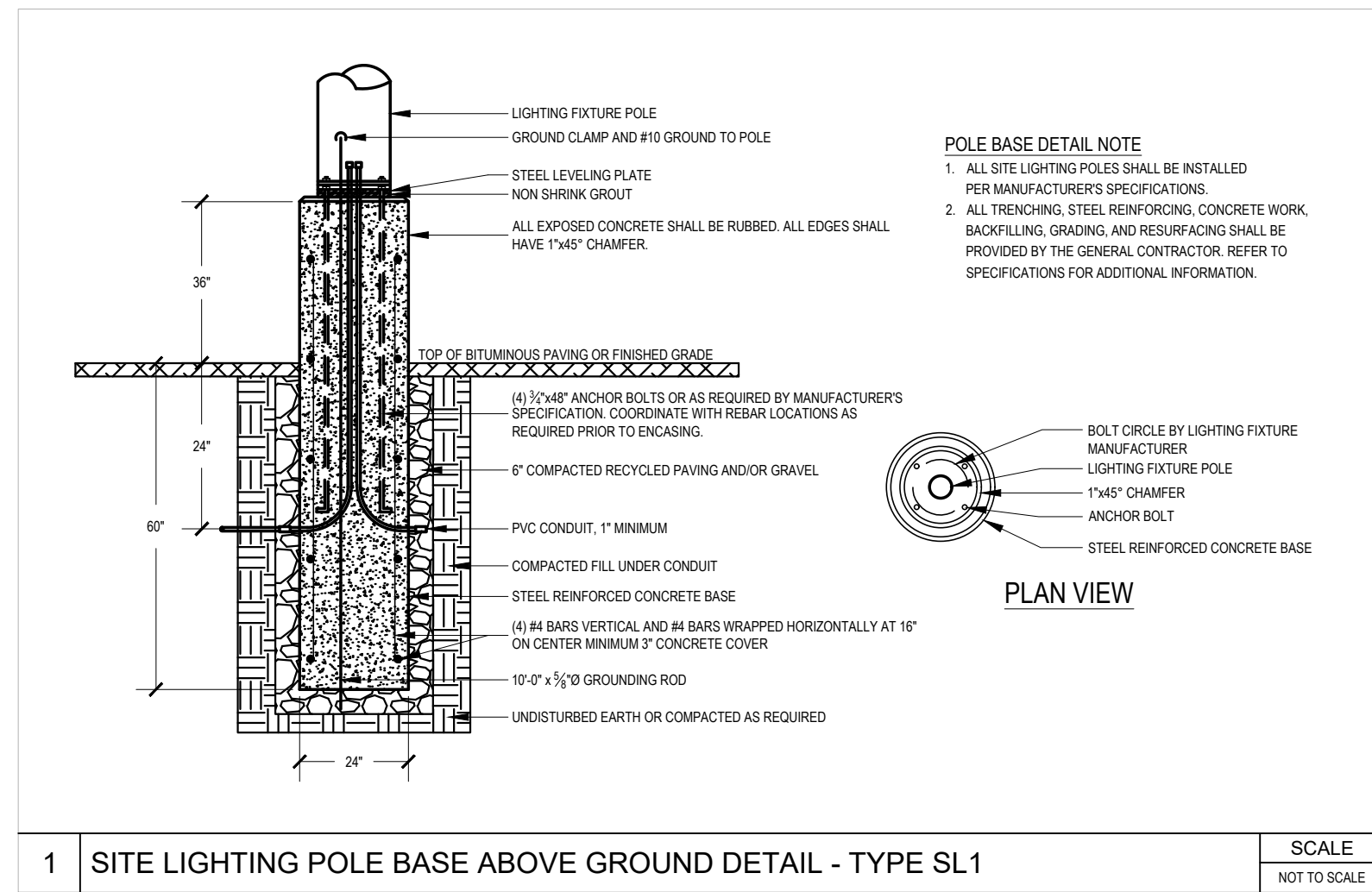
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NO.	DESCRIPTION	DATE

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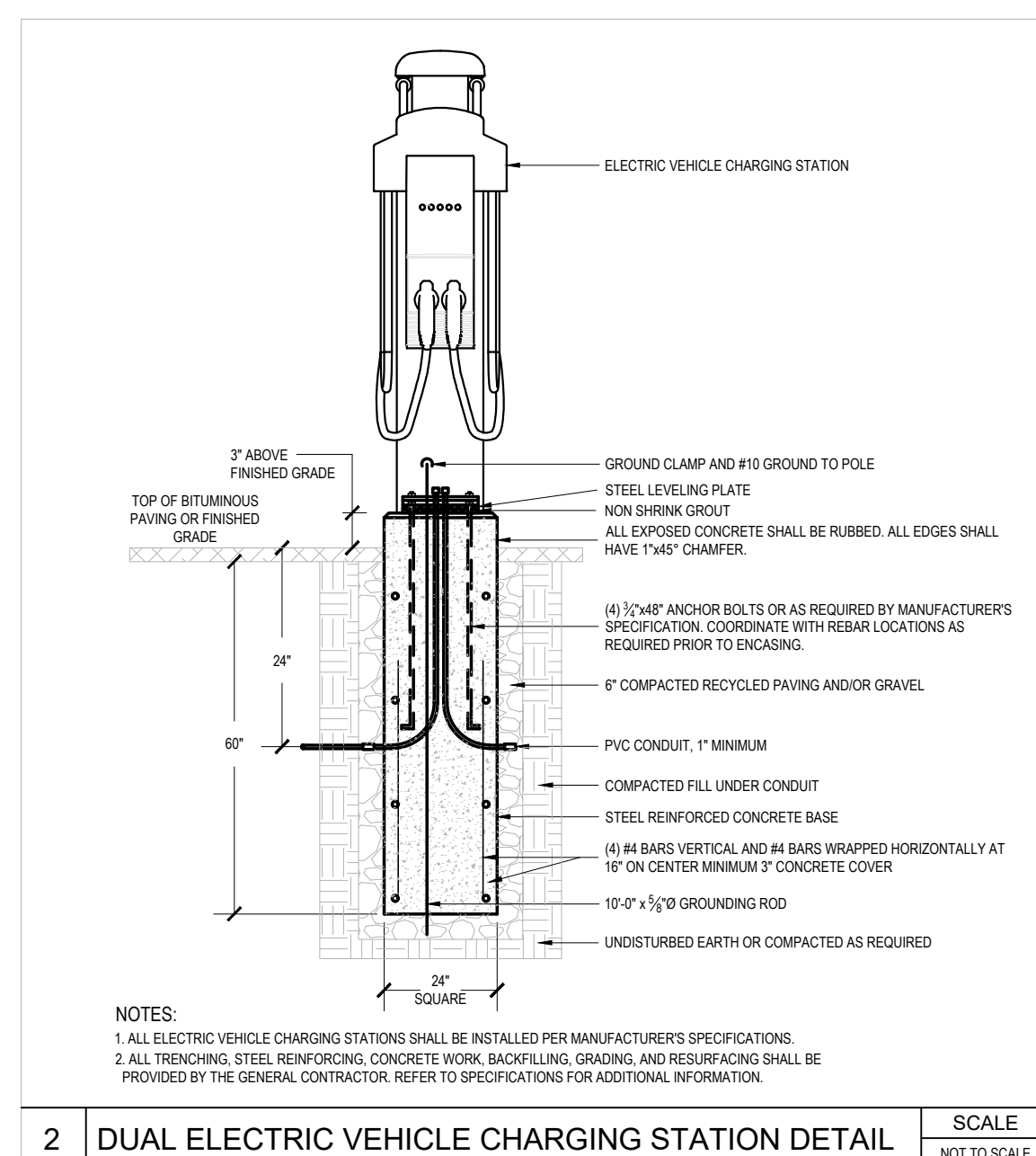
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DRAWING NO.:

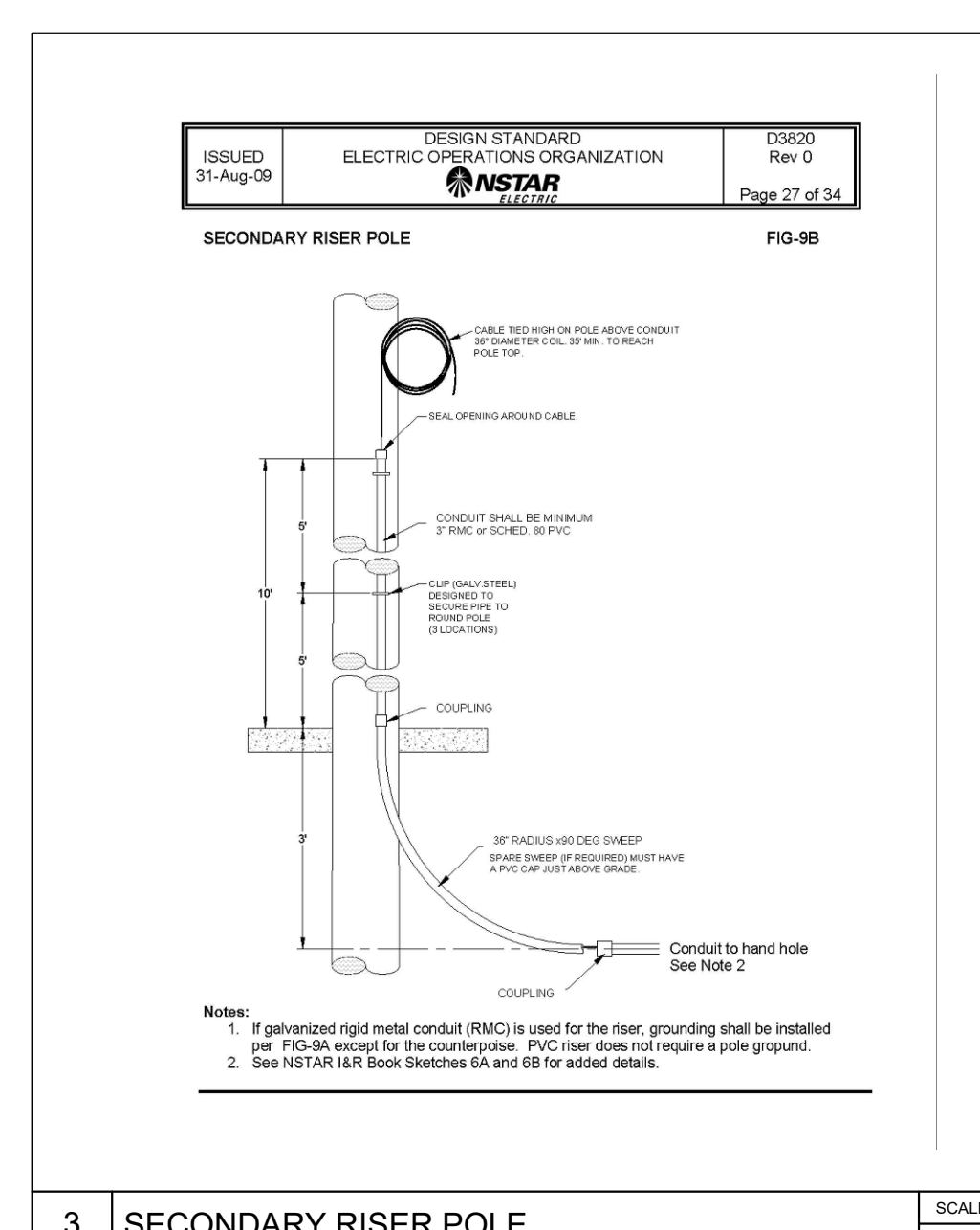
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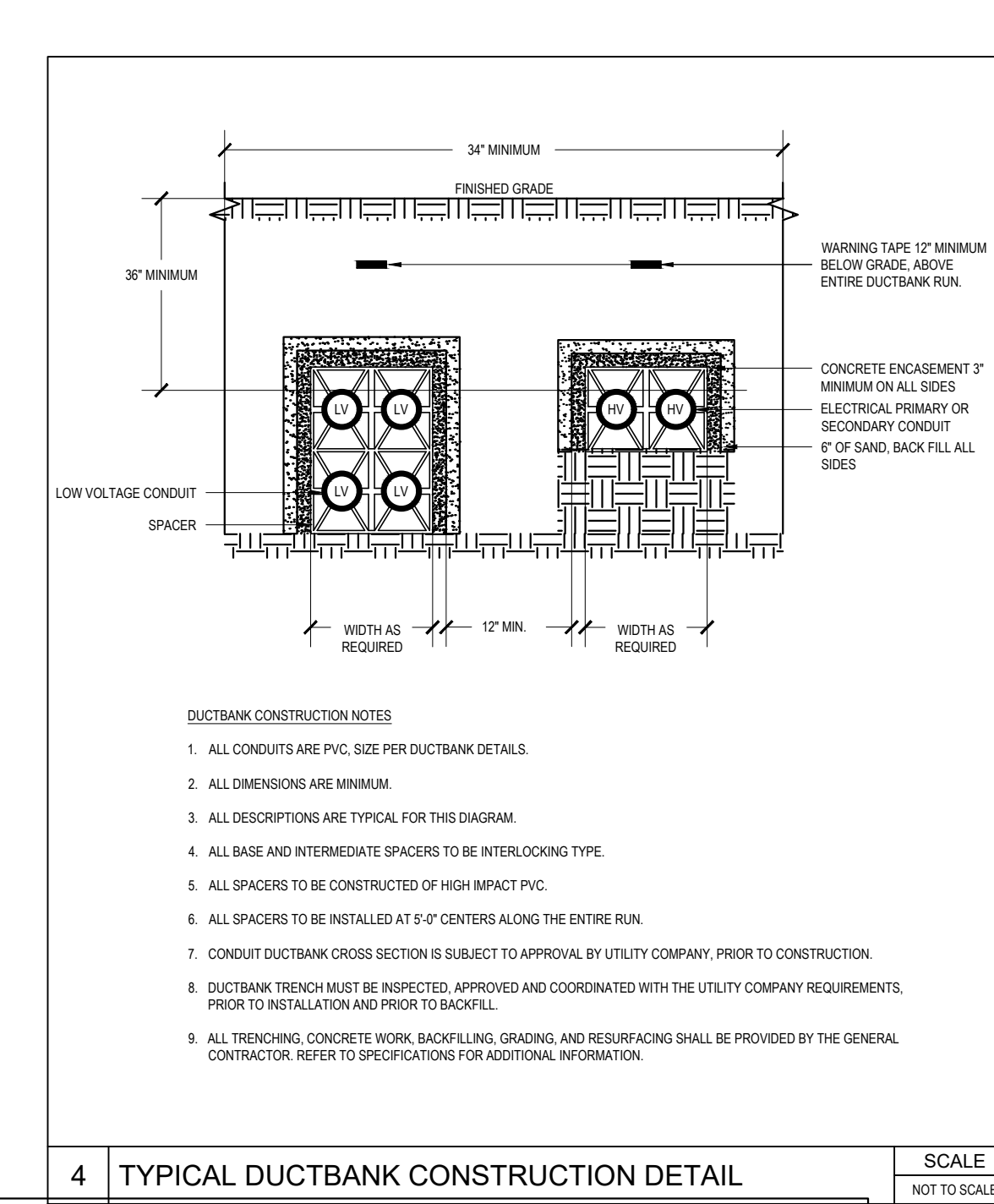
1 SITE LIGHTING POLE BASE ABOVE GROUND DETAIL - TYPE SL1 SCALE: NOT TO SCALE



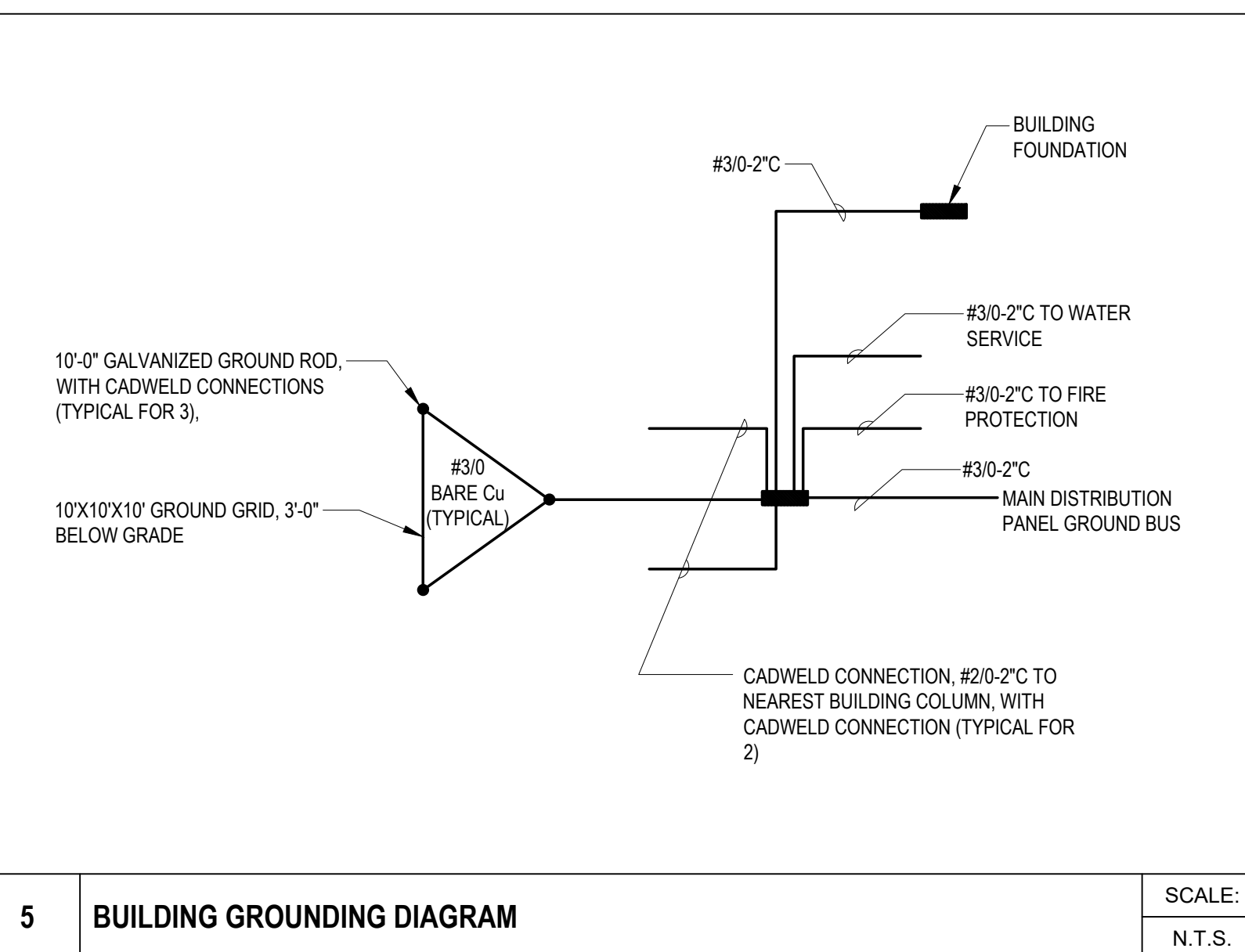
2 DUAL ELECTRIC VEHICLE CHARGING STATION DETAIL SCALE: NOT TO SCALE



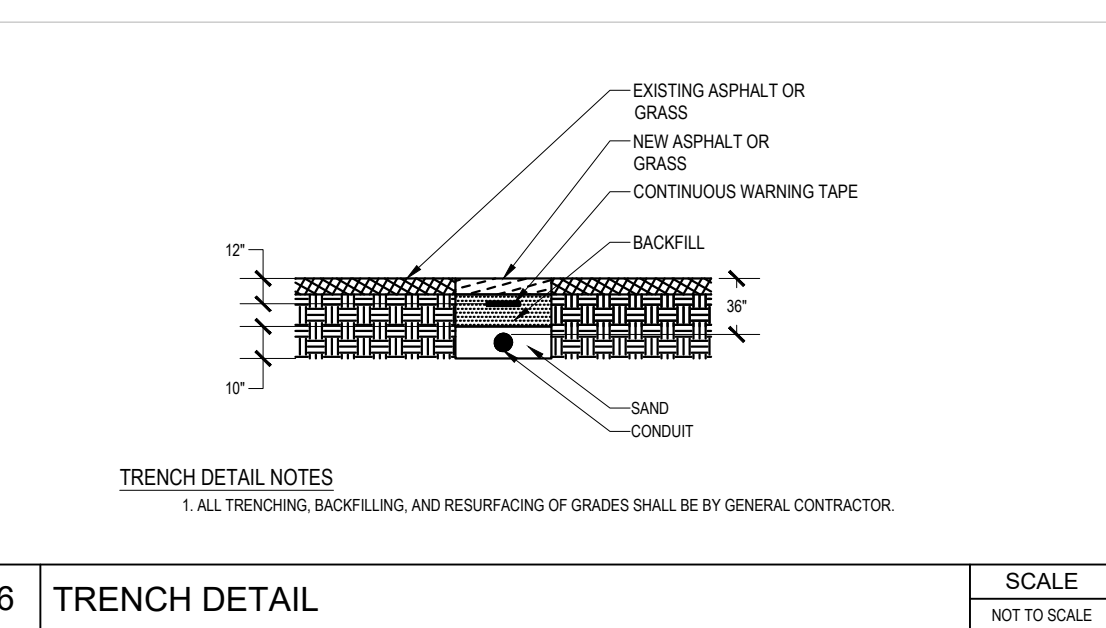
3 SECONDARY RISER POLE SCALE: N.T.S.



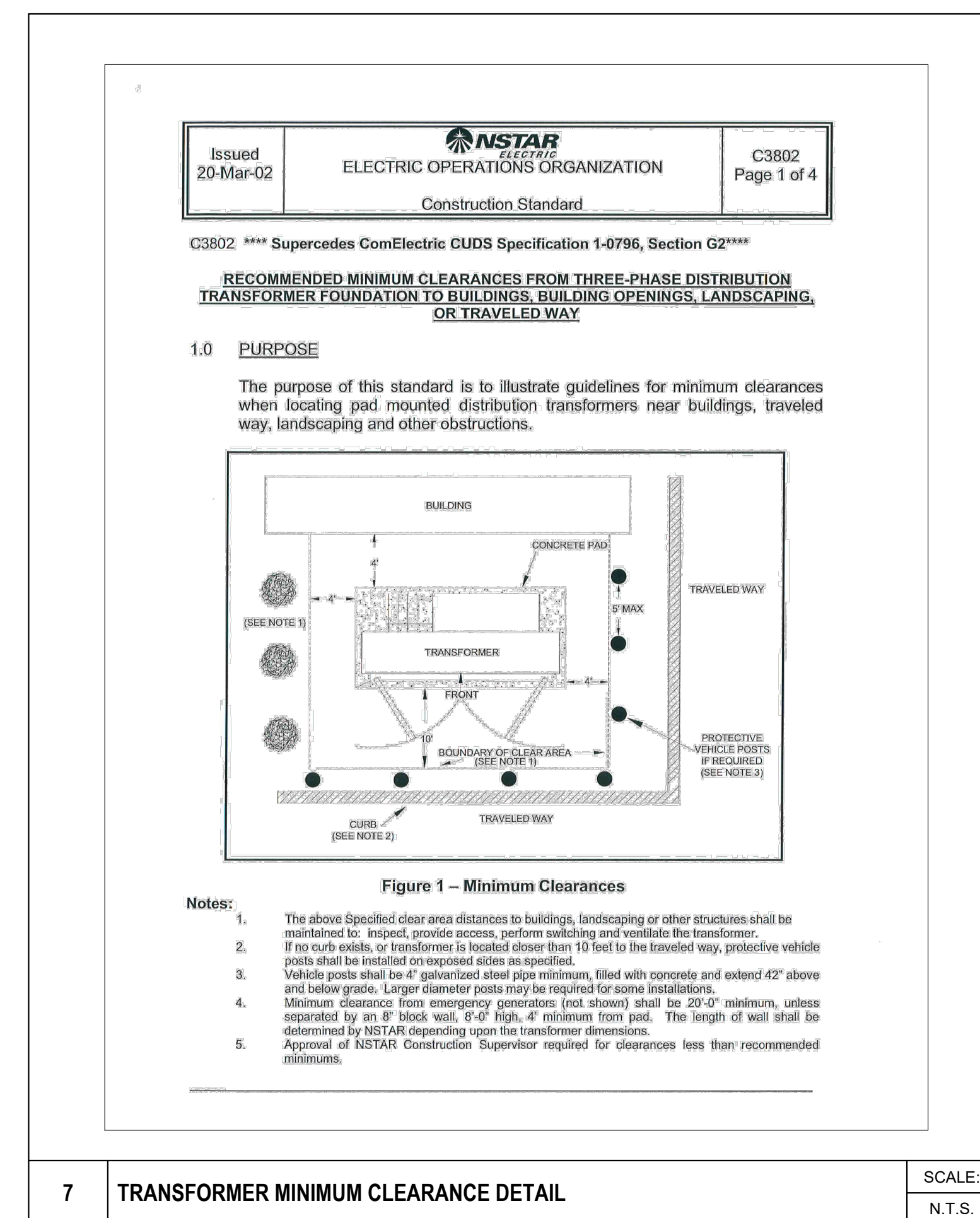
4 TYPICAL DUCTBANK CONSTRUCTION DETAIL SCALE: NOT TO SCALE



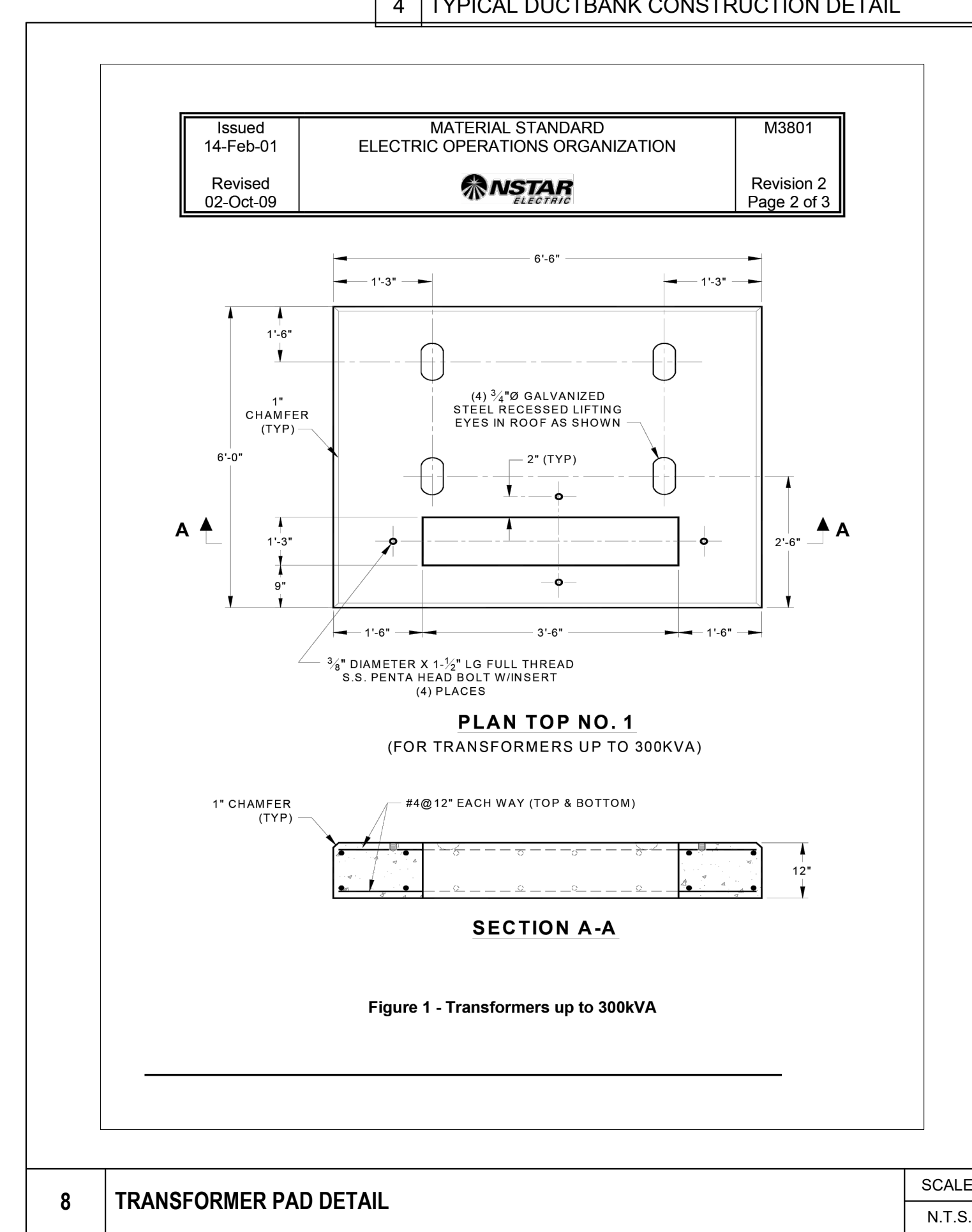
5 BUILDING GROUNDING DIAGRAM SCALE: N.T.S.



6 TRENCH DETAIL SCALE: NOT TO SCALE



7 TRANSFORMER MINIMUM CLEARANCE DETAIL SCALE: N.T.S.



8 TRANSFORMER PAD DETAIL SCALE: N.T.S.

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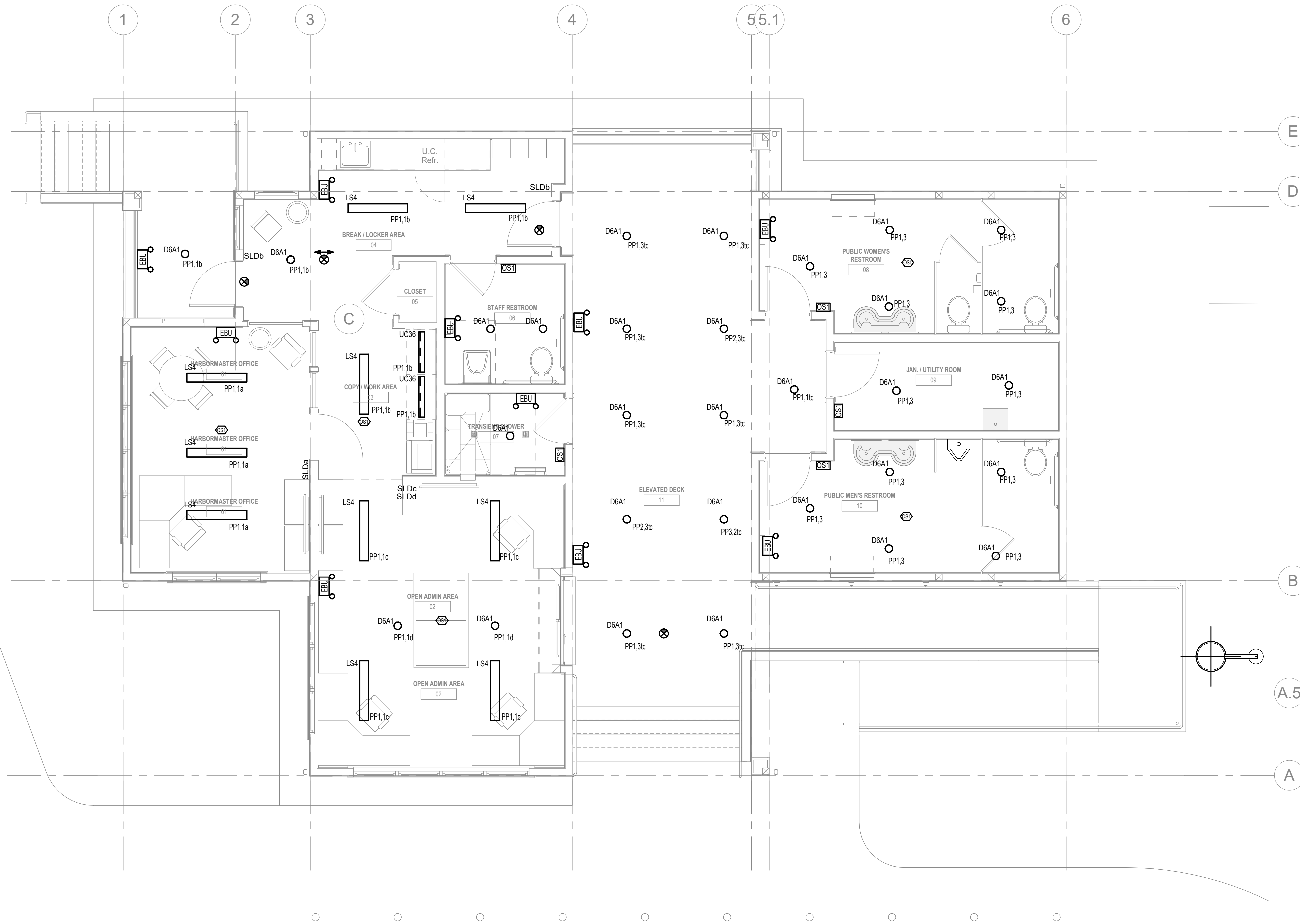
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FLOOR PLAN

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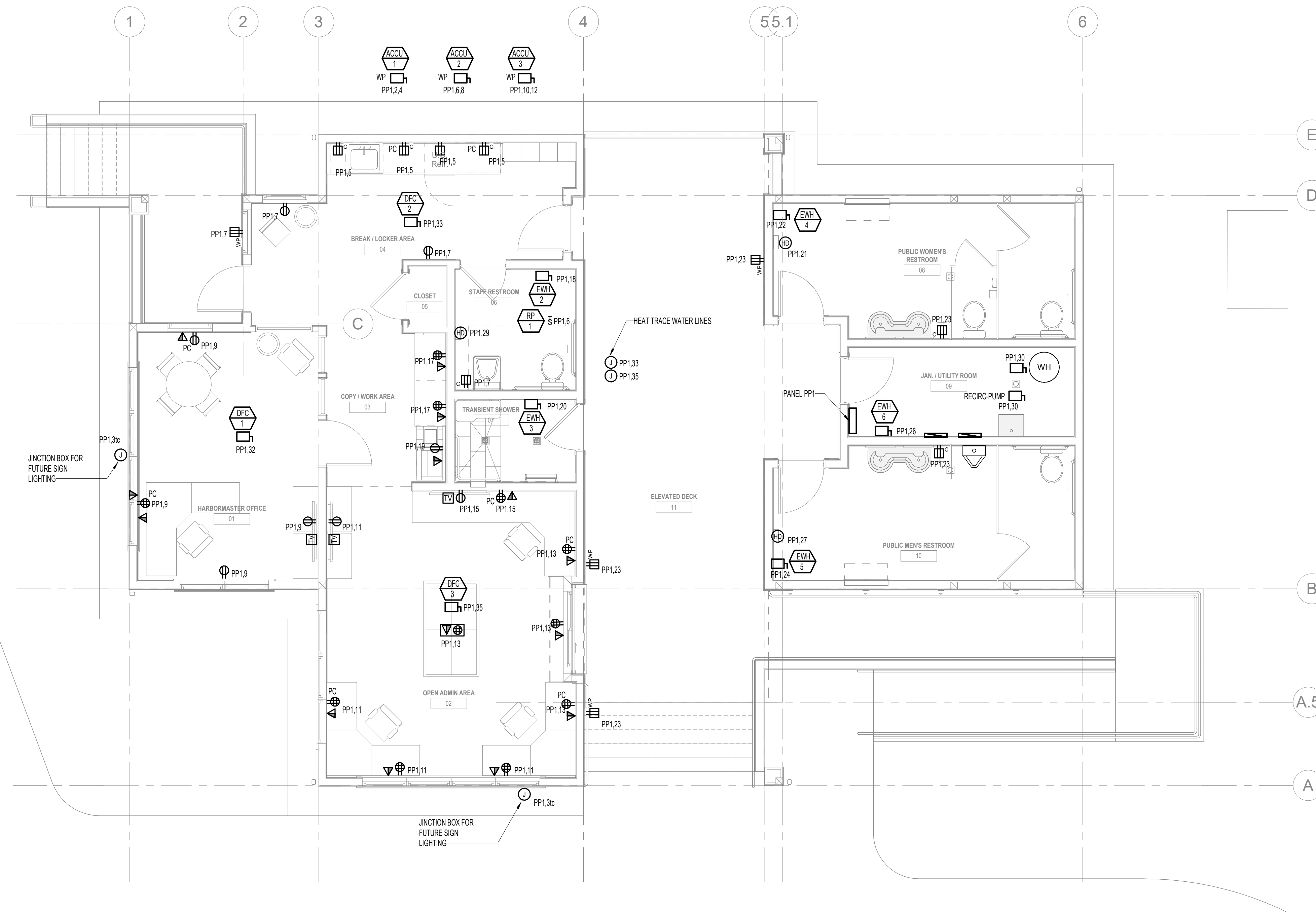
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OFFICE - FIRE  
ALARM FLOOR PLAN

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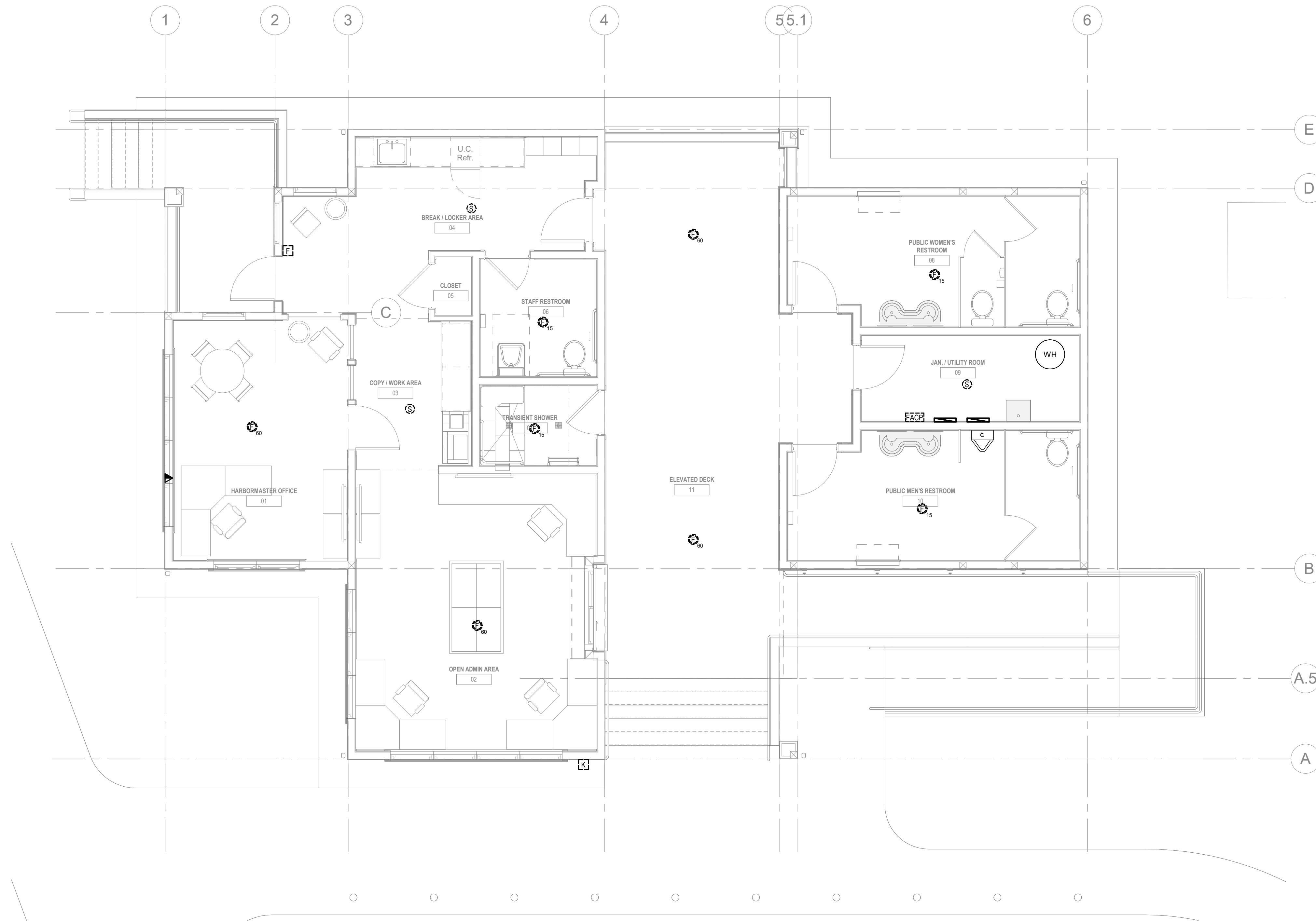
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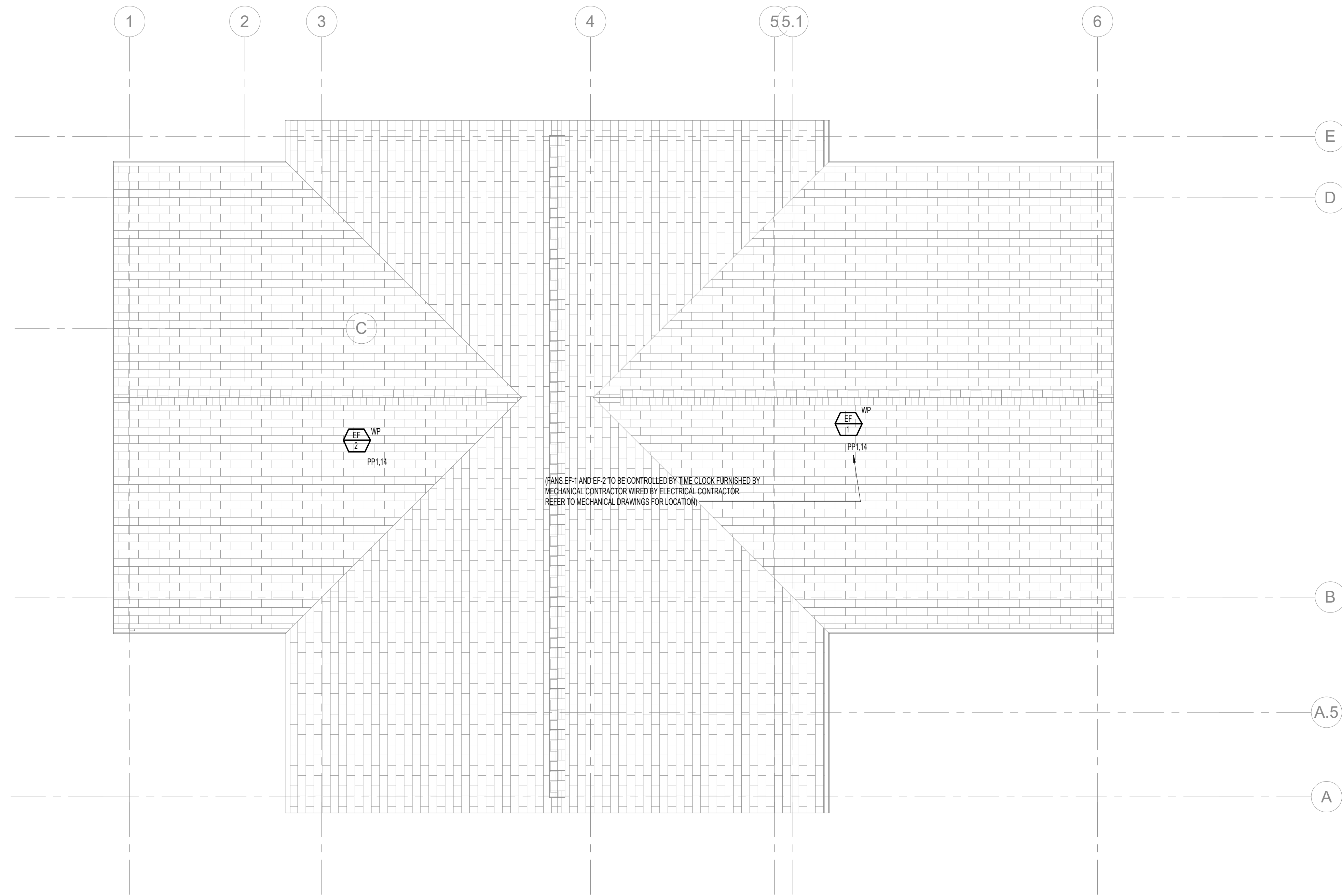


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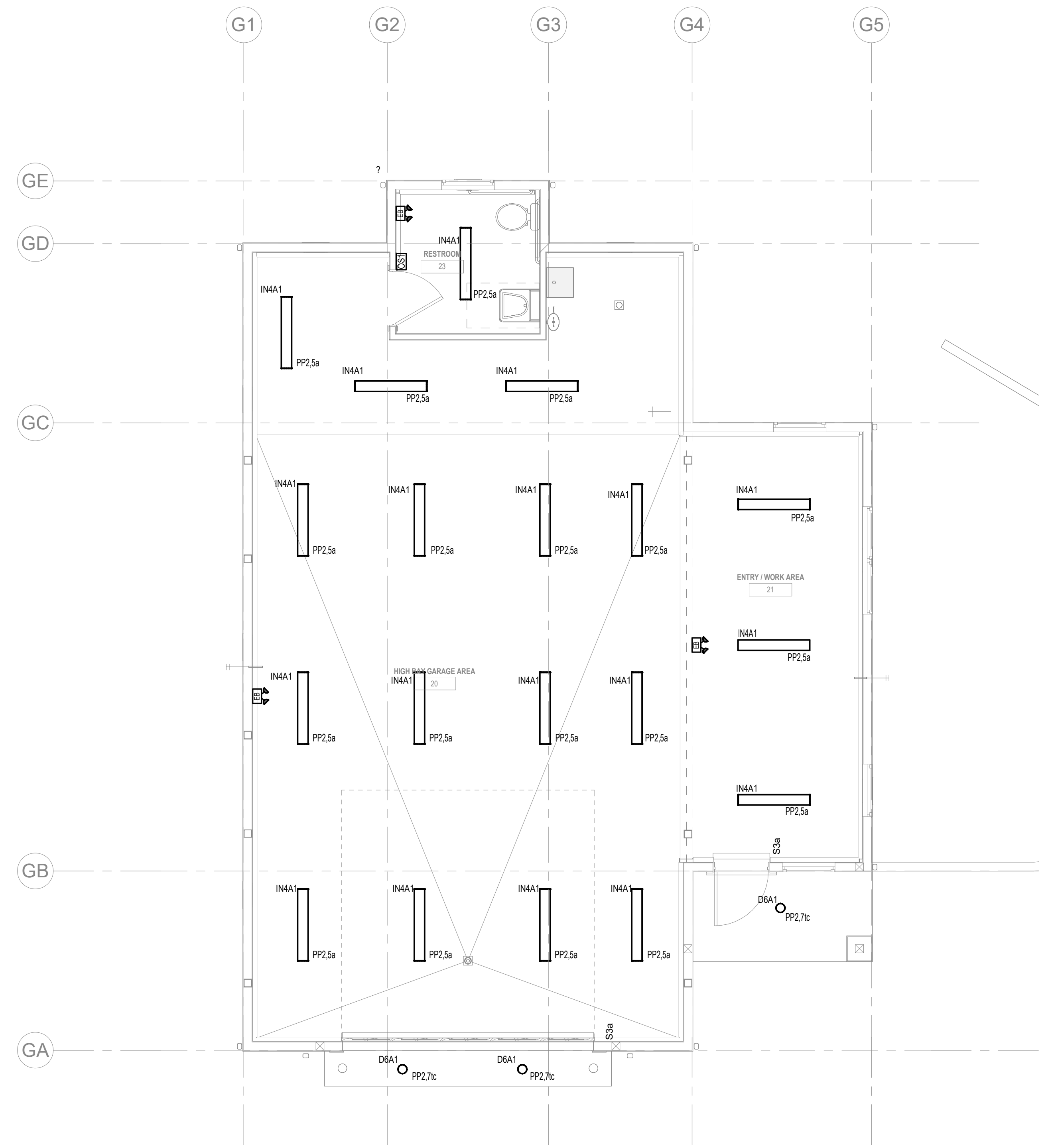
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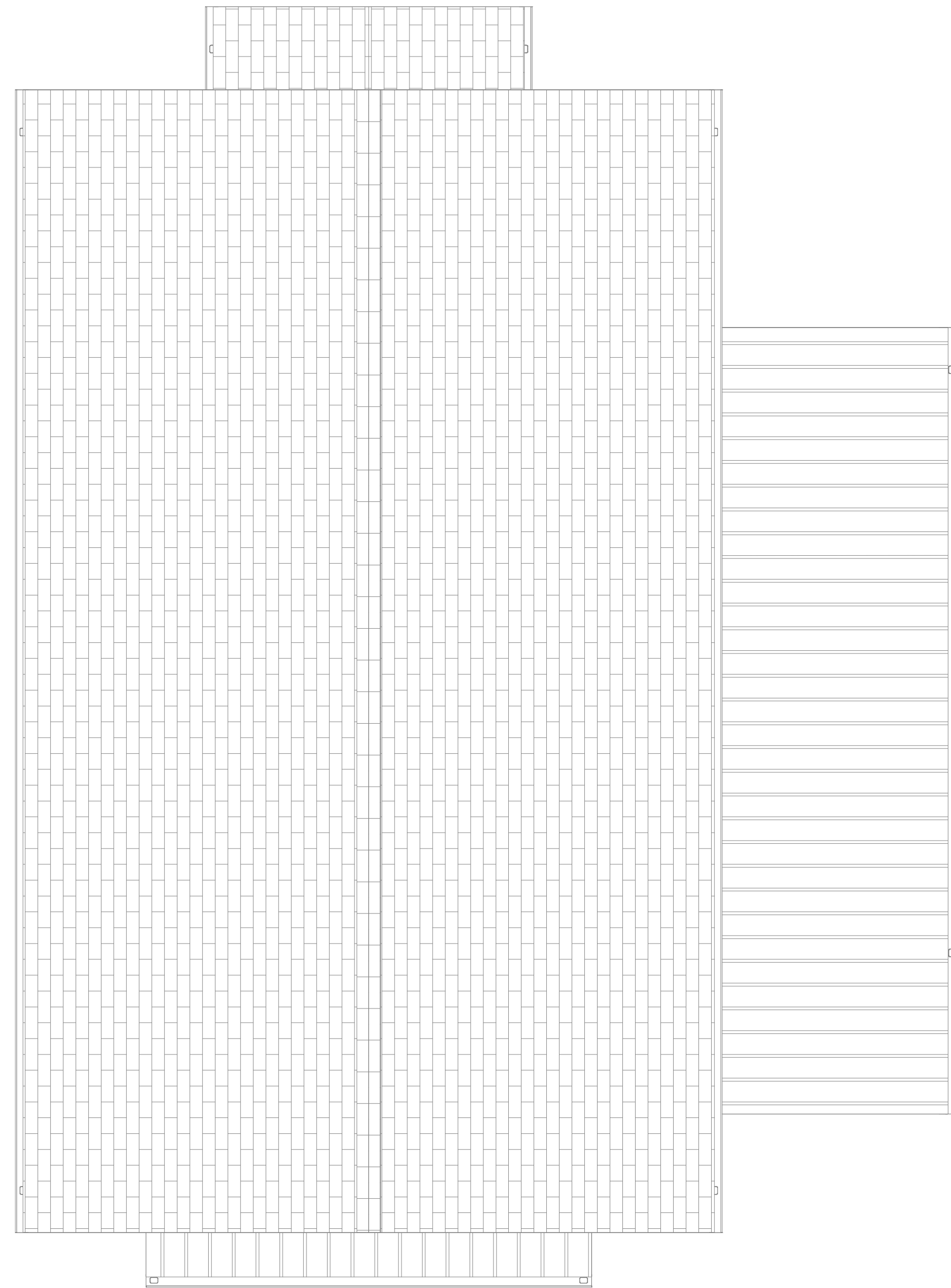
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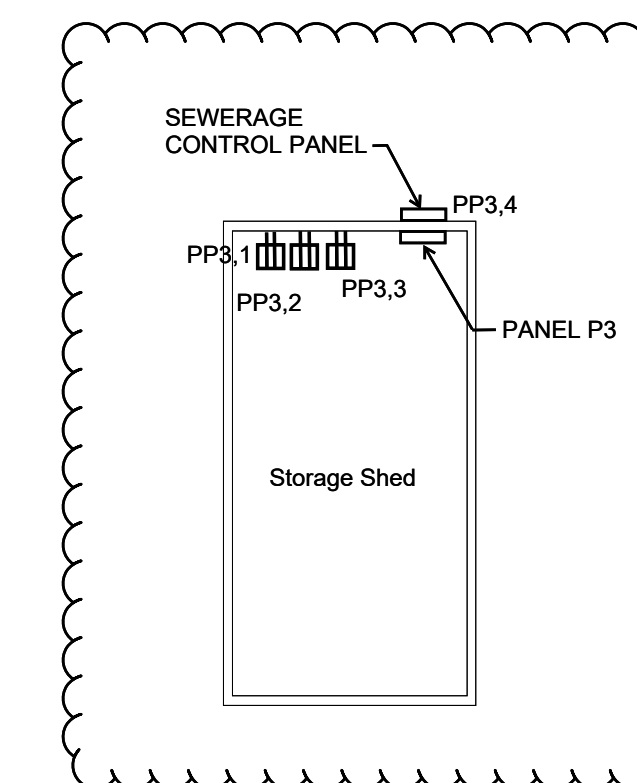
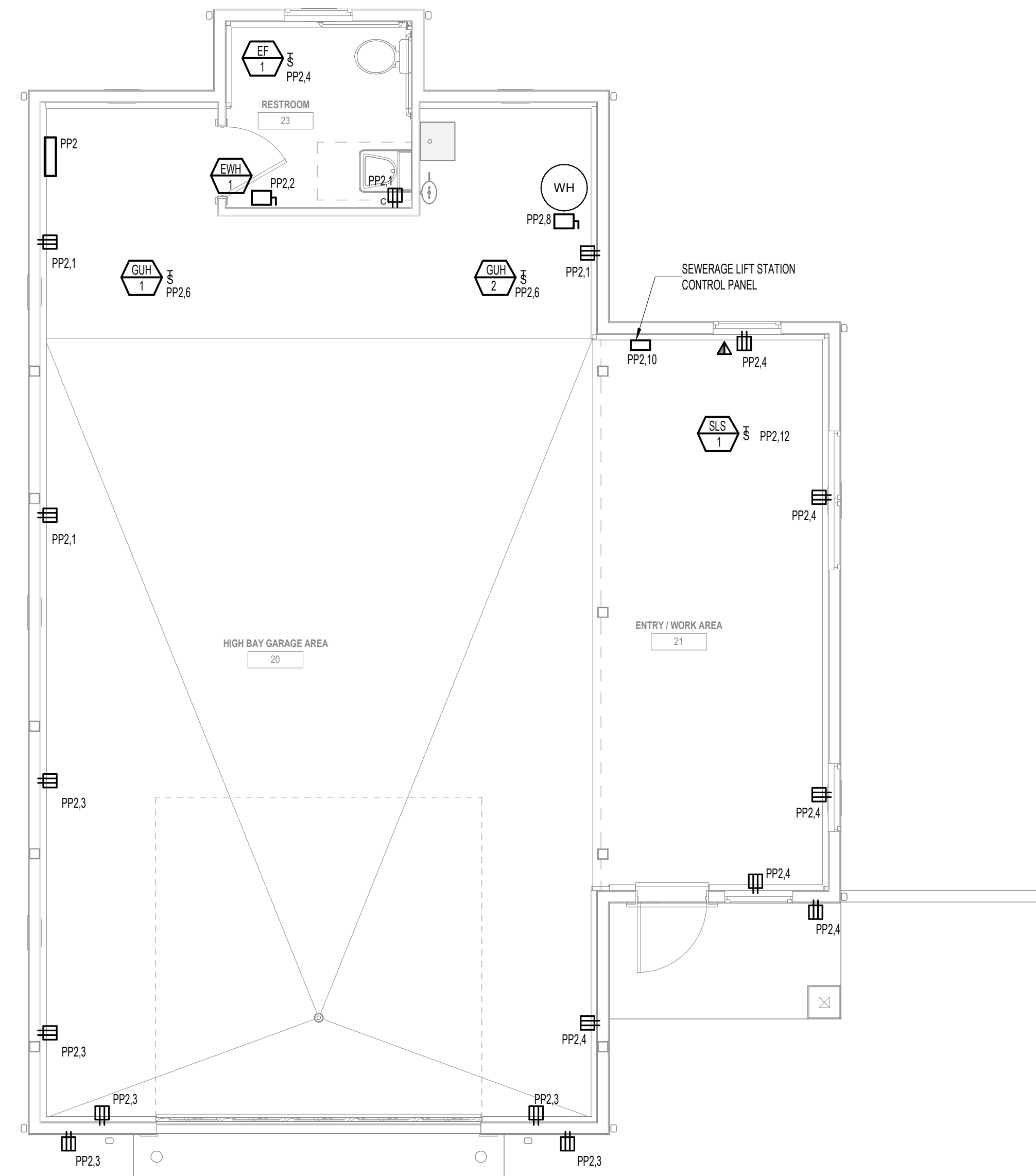
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**2** HARBORMASTER GARAGE - ROOF POWER PLAN  
Scale: 1/4" = 1'-0"



**1** HARBORMASTER GARAGE - POWER FLOOR PLAN  
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TITLE:  
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HARBORMASTER  
GARAGE - POWER  
FLOOR PLAN

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REVISIONS:  
No. Description Date

DRAWING NO.:

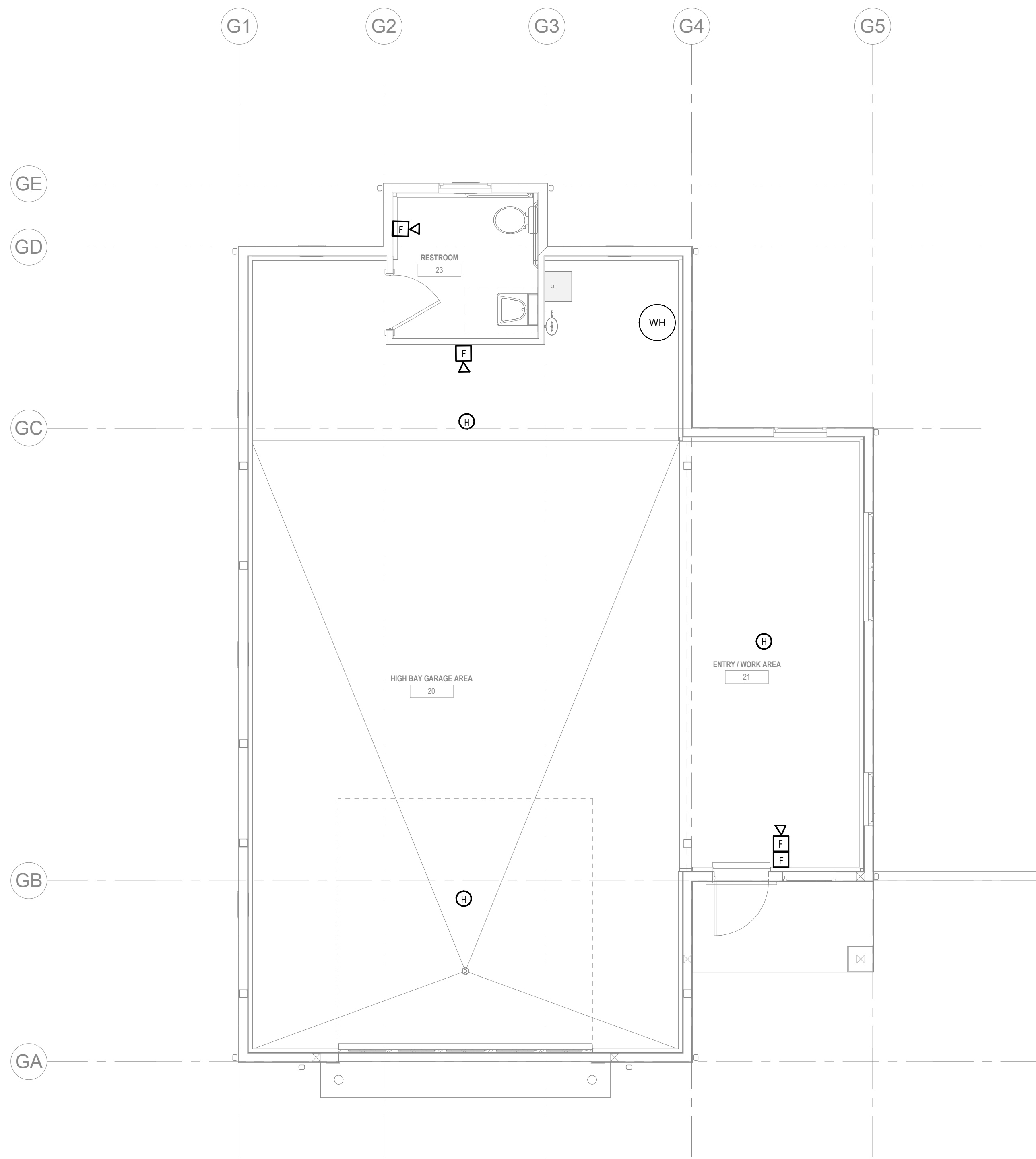
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ALARM FLOOR PLAN**

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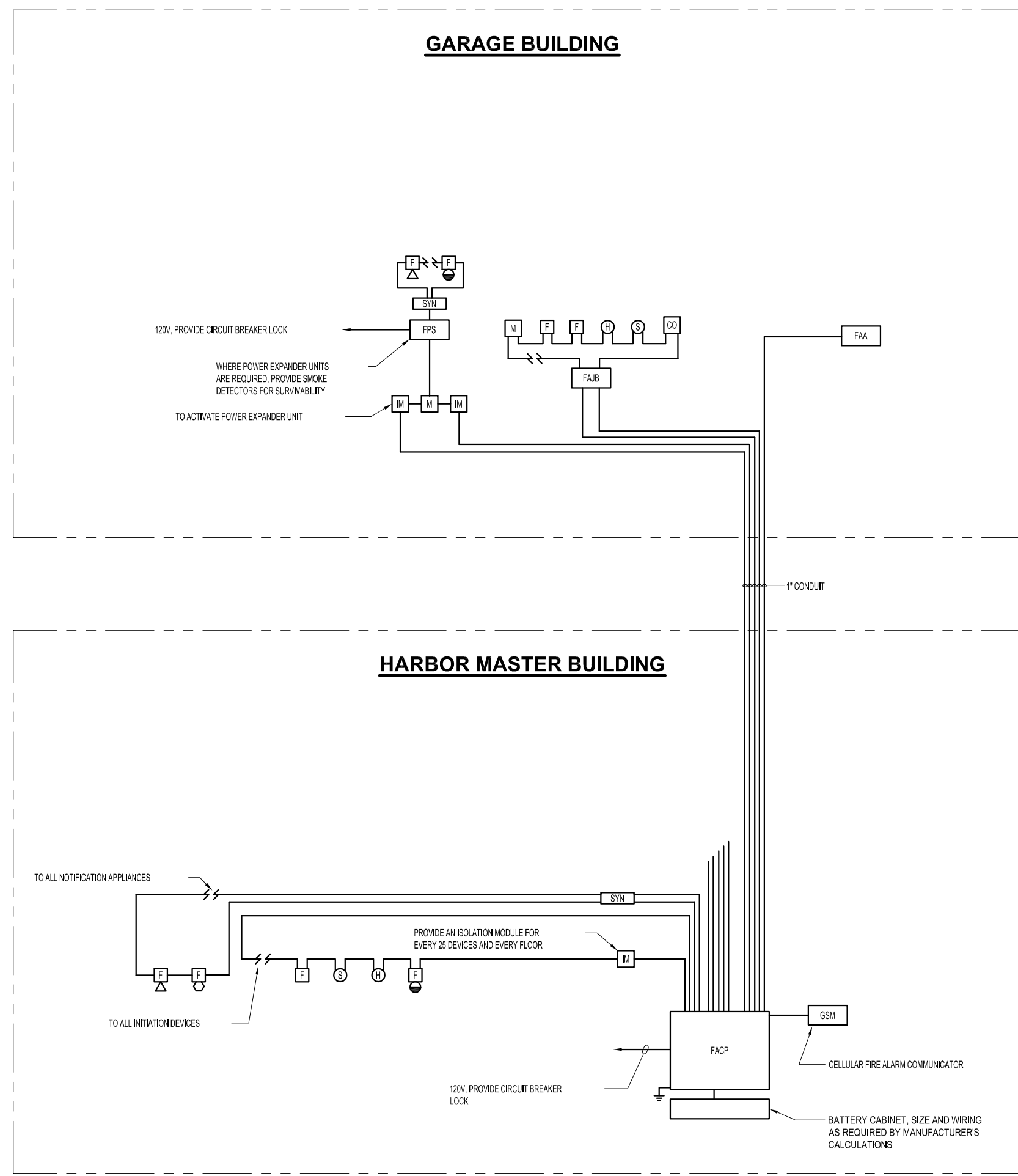
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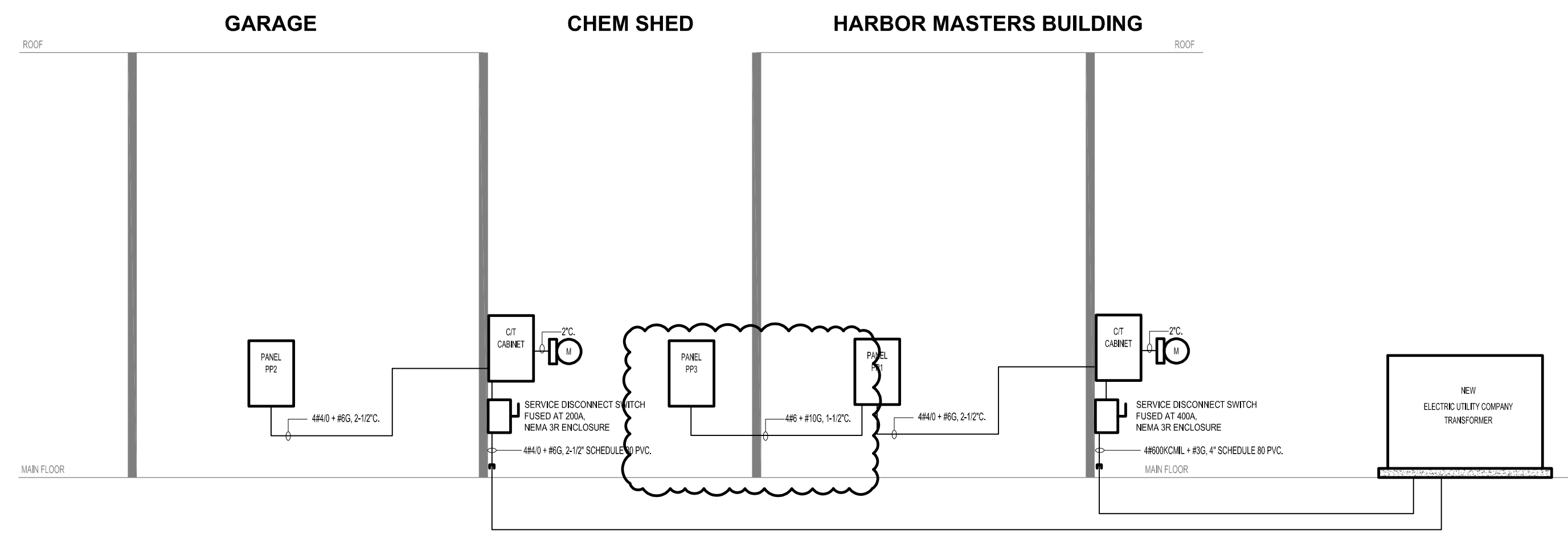
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**FIRE ALARM RISER DIAGRAM**  
N.T.S.

**FIRE ALARM RISER DIAGRAM NOTES:**

1. ALL FIRE ALARM WIRING SHALL BE 3/4" RIGID CONDUIT, UNLESS OTHERWISE NOTED.
2. THE FIRE ALARM RISER DIAGRAM IS TYPICAL. REFER TO PLANS FOR QUANTITIES AND LOCATIONS OF DEVICES AND ADDITIONAL REQUIREMENTS. PROVIDE ALL PARTS, MATERIALS, ETC. FOR A FULLY FUNCTIONAL SYSTEM.
3. FIRE ALARM WIRING SHALL BE CONTINUOUS FROM DEVICE TO DEVICE.
4. DEVICE OUTGOING AND RETURN WIRING SHALL RUN IN SEPARATE RACETRAYS.
5. PROVIDE GRAPHIC FRAMED FLOOR PLANS OF EACH FLOOR INDICATING ALL FIRE ALARM NOTING DEVICES (STATION, SMOKE DETECTORS, HEAT DETECTORS, ETC.). INDICATE YOU ARE HERE ON FIRST FLOOR PLAN. ORIENTATE FLOOR PLANS ACCORDING TO HORIZONTAL LOCATION OF ALL STAIRS. GRAPHIC FLOOR PLANS SHALL BE MOUNTED ADJACENT TO FIRE ALARM CONTROL PANEL AND INDICATORS.
6. PROVIDE A 4075V/120V SURGE PROTECTION DEVICE (SPD) WITH THE NETWORK LOOP BETWEEN AND UPON EACH BUILDING WITH ALL BUILDING DEVICES BETWEEN THE SURGE PROTECTIVE DEVICES.



**POWER RISER DIAGRAM**  
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**RISER DIAGRAMS**

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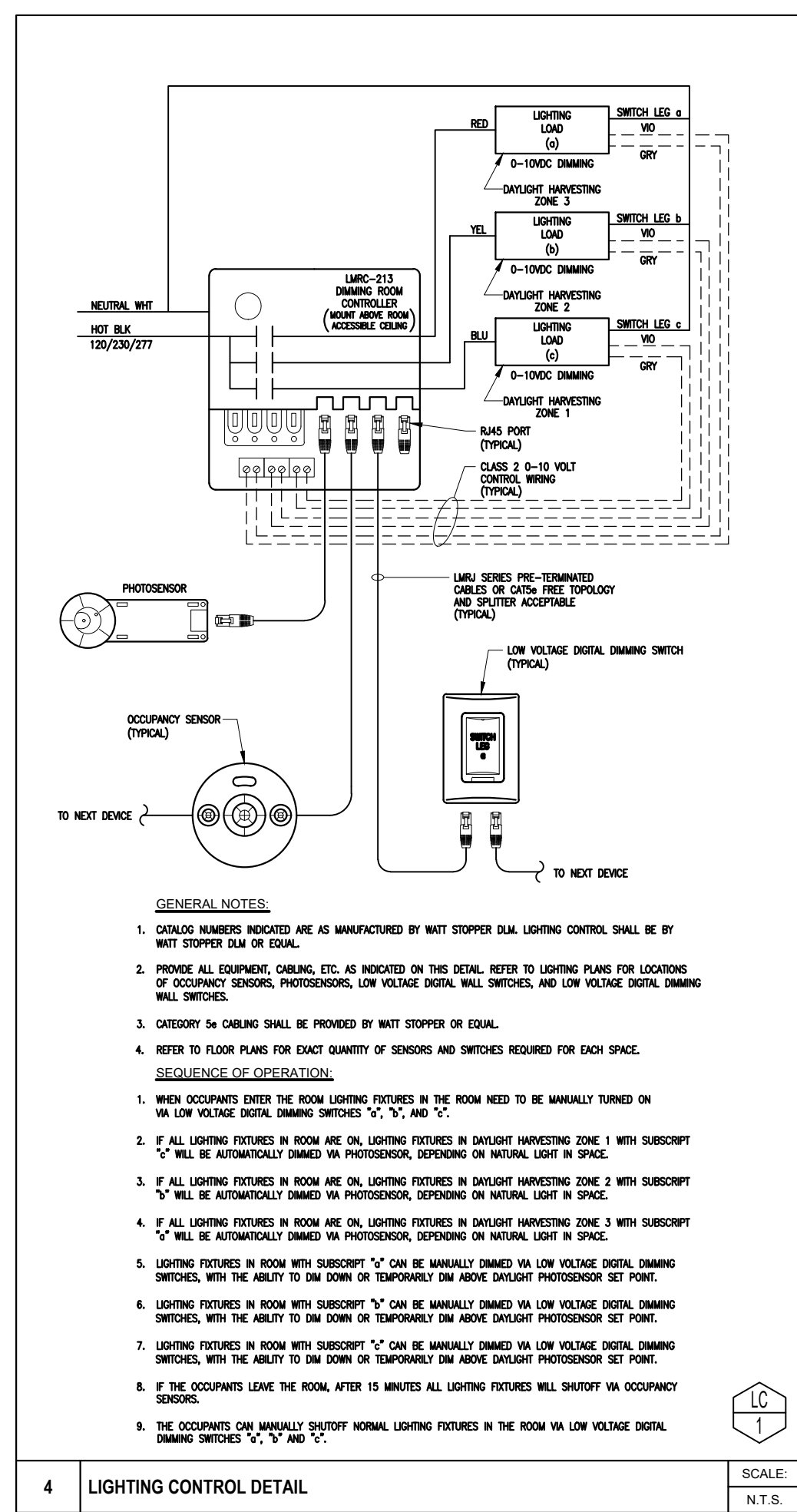
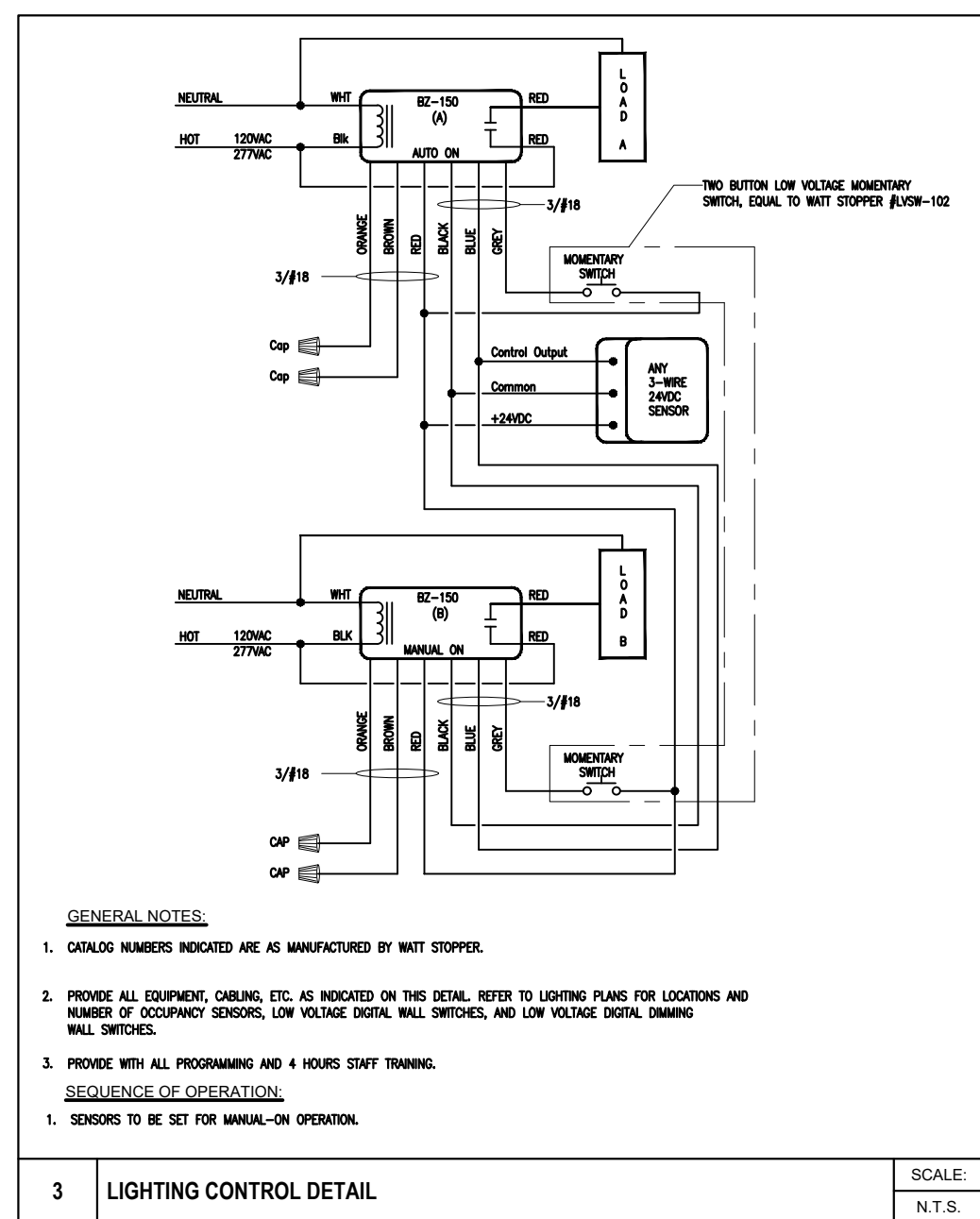
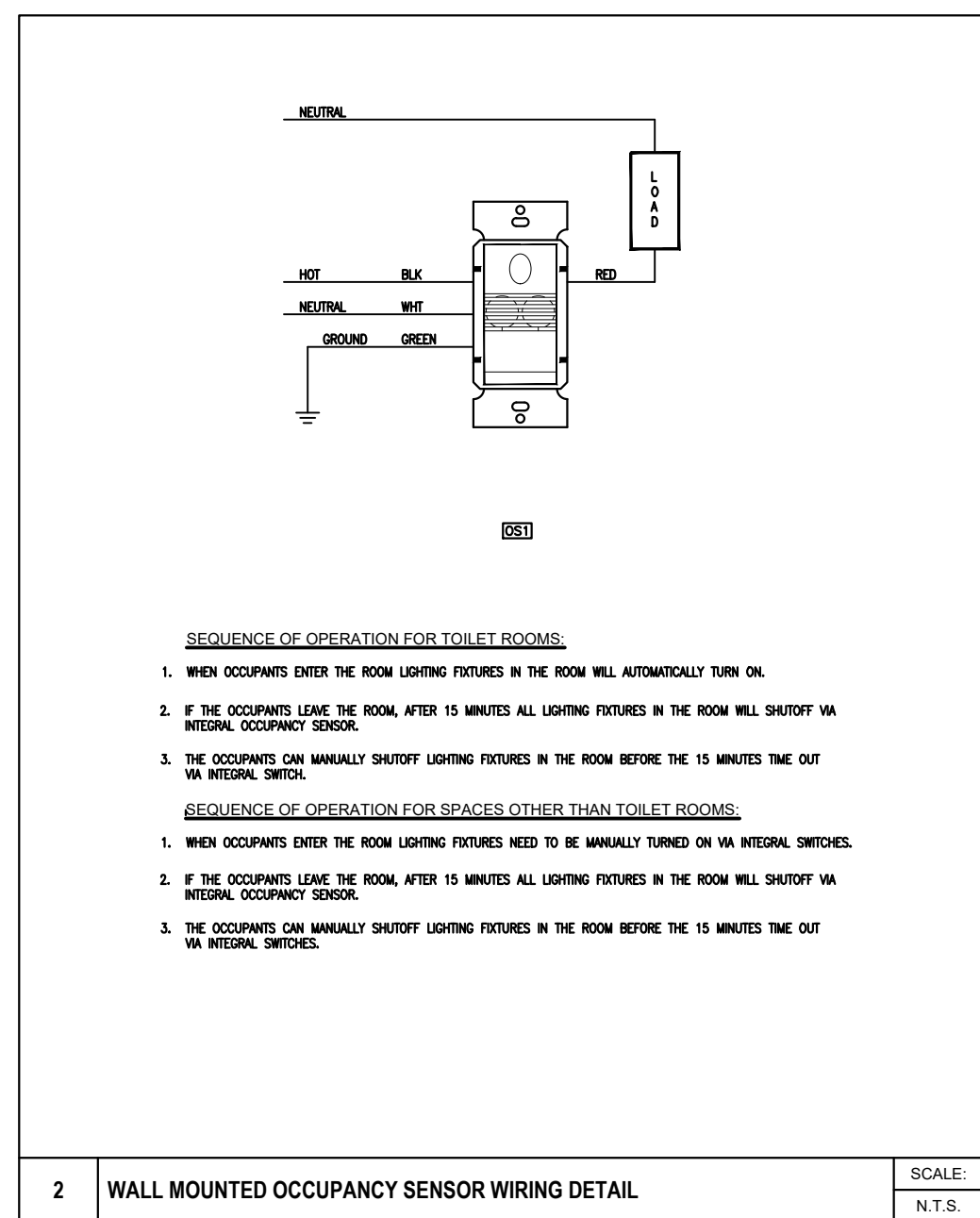
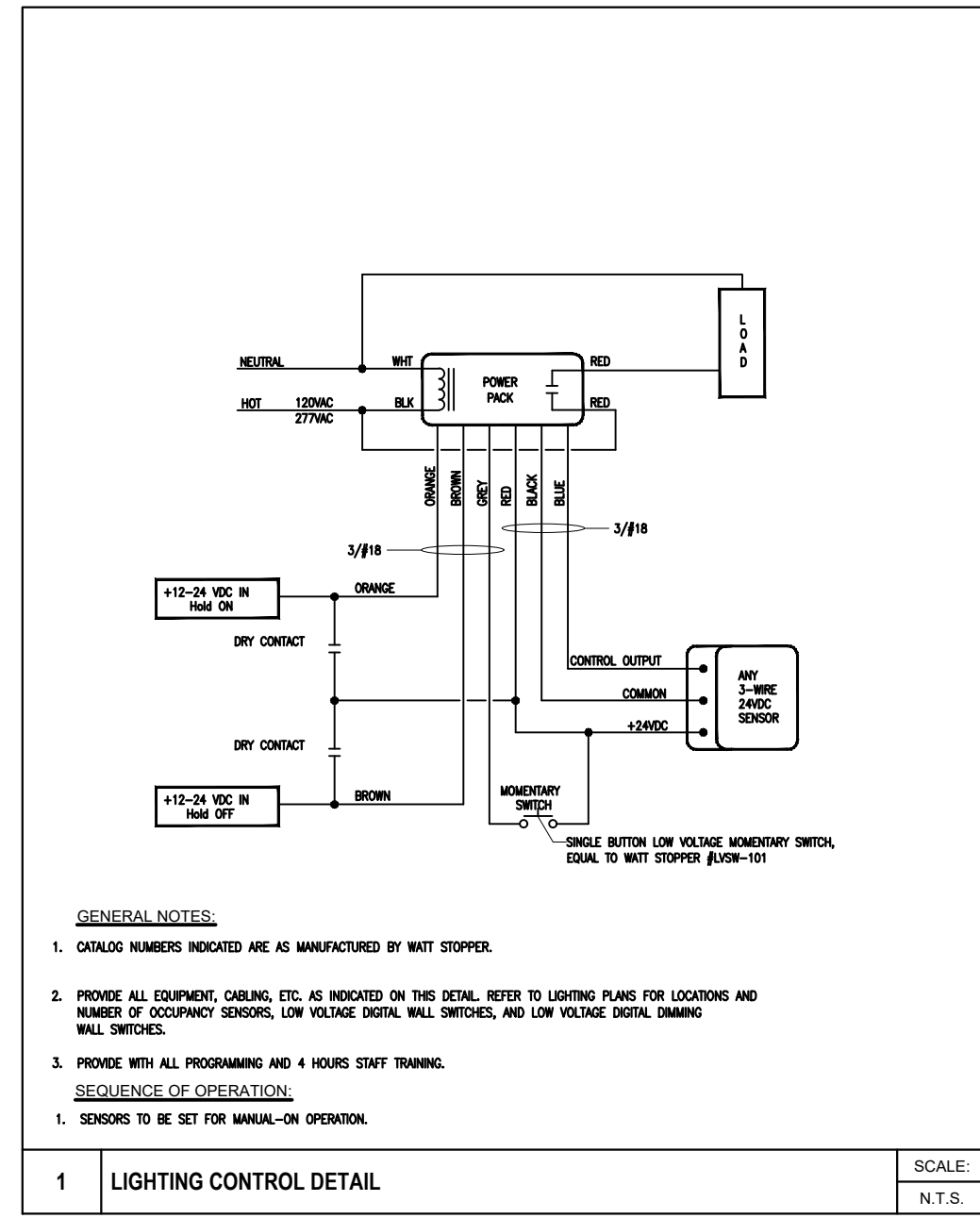
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### PLUMBING LEGEND

GENERAL		DRAINAGE		VALVES	
	EXISTING PIPING TO BE REMOVED		IW INDIRECT WASTE		BALANCING VALVE
	HEAVY LINE INDICATES NEW WORK		KW KITCHEN WASTE		BALL VALVE
	LIGHT LINE INDICATES EXISTING WORK		KW KITCHEN WASTE BURIED		BALL VALVE NORMALLY CLOSED
	PIPING INTERRUPTED OR TO BE CONTINUED		KV KITCHEN WASTE VENT		BALL VALVE NORMALLY OPEN
	CAP OR END OF PIPE		ORL OVERFLOW RAINWATER / OVERFLOW STORM DRAIN		BUTTERFLY VALVE
	CONNECT TO EXISTING		RL RAINWATER / STORM DRAIN		CHECK VALVE
	CTE DETAIL DESIGNATION TAG		RL RAINWATER / STORM DRAIN BURIED		GAS COCK
	DN DIRECTION OF SLOPE		LW LAB WASTE		GATE VALVE
	DN ELBOW DOWN OR DROP		LV LAB WASTE VENT		GATE VALVE NORMALLY CLOSED
	UP ELBOW UP OR RISE		LV LAB WASTE BURIED		MIXING VALVE (ELEVATION & PLAN)
	HC FLOW IN DIRECTION OF ARROW		LV LAB WASTE VENT BURIED		PRESSURE REDUCING / REGULATING VALVE
	HC HANDICAPPED ACCESSIBLE		US UNDERSLAB DRAINAGE BURIED		REDUCED PRESSURE BACKFLOW PREVENTER (2" OR LESS)
	TEE LOOKING DOWN		V SANITARY VENT		REDUCED PRESSURE BACKFLOW PREVENTER (ADJUSTABLE SET TURNED UP)
	TEE LOOKING UP		V SANITARY VENT BURIED		REDUCED PRESSURE BACKFLOW PREVENTER (ADJUSTABLE SET TURNED DOWN)
ABBREVIATIONS			AD AREA DRAIN		SOLENOID VALVE
AC ABOVE CEILING	GPM GALLONS PER MINUTE		CO CLEANOUT		TEMPERATURE AND PRESSURE RELIEF VALVE
AD ACCESS DOOR	GWH GAS WATER HEATER		FCO FLOOR CLEANOUT		VALVE IN VERTICAL
AFF ABOVE FINISH FLOOR	HB HOSE BIBB		FD FLOOR DRAIN	<b>ACCESSORIES</b>	
AFG ABOVE FINISH GRADE	HP HORSEPOWER		GCO GROUND CLEANOUT		FM FLOW METER
AP ACCESS PANEL	HVAC HEAT, VENTILATION & AIR CONDITIONING		OD OVERFLOW DRAIN / SECONDARY ROOF DRAIN		GH GROUND HYDRANT
ARCH ARCHITECT	ID INSIDE DIAMETER		P-TRAP		HB HOSE BIBB
BHP BRAKE HORSEPOWER	INV INVERT		RD ROOF DRAIN		IN-LINE FILTER
BT BATH TUB	L LAVATORY		WCO WALL CLEANOUT		PIPE GUIDE / BEAM PENETRATION
BPW BED PAN WASHER	LS LAB SINK	<b>GASES</b>			PG PRESSURE GAUGE
BLDG BUILDING	MAX MAXIMUM		AI AIR INTAKE PIPING		STRAINER
CI CAST IRON	MIN MINIMUM		EXH EXHAUST AIR PIPING		TG TEMPERATURE GAUGE
CFM CUBIC FEET PER MINUTE	MSB MOP SERVICE BASIN		G NATURAL GAS PIPING		TP TRAP PRIMER
CLNG CEILING	N/A NOT APPLICABLE		CA COMPRESSED AIR		UNION
CLDI CEMENT LINED DUCTILE IRON	NC NORMALLY CLOSED	<b>WATER</b>			VB VACUUM BREAKER
CP CHROME PLATED	NO NORMALLY OPEN		140° HW 140° HOT WATER		WH WALL HYDRANT
CS CUP SINK	NTS NOT TO SCALE		140° HWR 140° HOT WATER RETURN		WHA WATER HAMMER ARRESTOR / SHOCK ABSORBER
DIA DIAMETER	NIC NOT IN CONTRACT		CW COLD WATER		WATER PROOF PIPE SLEEVE
DWG DRAWING	OD OUTSIDE DIAMETER		HW HOT WATER		
DF DRINKING FOUNTAIN	ORD OVERFLOW ROOF DRAIN		HWR HOT WATER RETURN		
EFF EFFICIENCY	PC PLUMBING CONTRACTOR		TP TRAP PRIMER		
EL ELEVATION	POS PROVIDED UNDER OTHER SECTION		EW EMERGENCY WATER W/ HEAT TRACE		
EWC ELECTRIC WATER COOLER	RPM REVOLUTIONS PER MINUTE				
EW EMERGENCY EYE WASH	SC SITE CONTRACTOR				
ES EMERGENCY SHOWER	SH SHOWER				
EWH ELECTRIC WATER HEATER	SK SINK				
ETBR EXISTING TO BE REMOVED	SPEC SPECIFICATION				
ETR EXISTING TO REMAIN	ST. ST. STAINLESS STEEL				
FEE FINISH FLOOR ELEVATION	SF SQUARE FEET				
FH FUME HOOD	SWH STEAM WATER HEATER				
FLR FLOOR	TYP TYPICAL				
FT FOOT	UR URINAL				
FRS FLUSHING RIM SERVICE SINK	WC WATER CLOSET				
GALV GALVANIZED					
GC GENERAL CONTRACTOR					

REMARKS:  
 ① SYMBOLS WITHIN LEGEND FOR REFERENCE ONLY. ALL SYMBOLS SHOWN MAY NOT BE APPLICABLE TO PROJECT.

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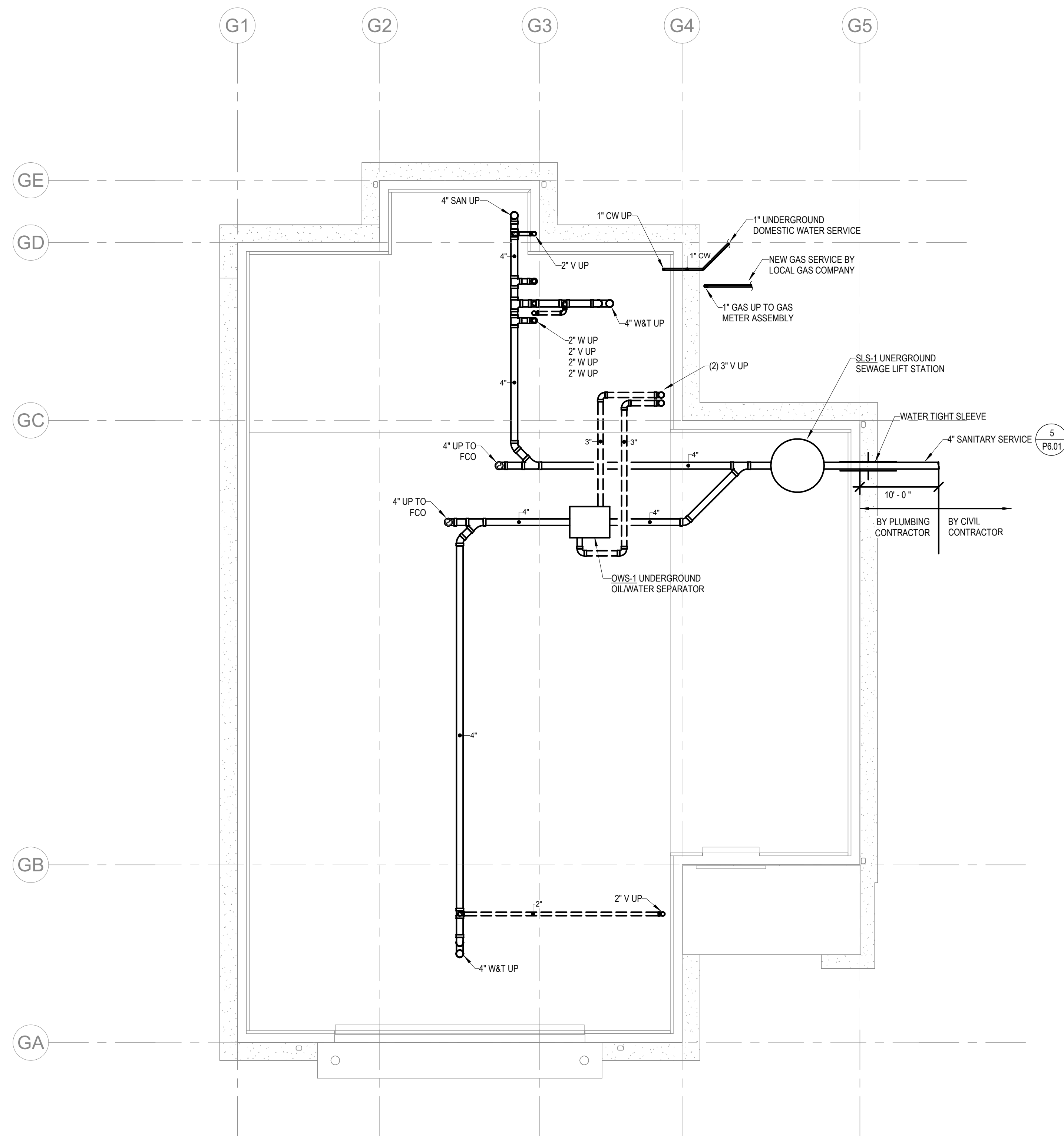
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PLAN**

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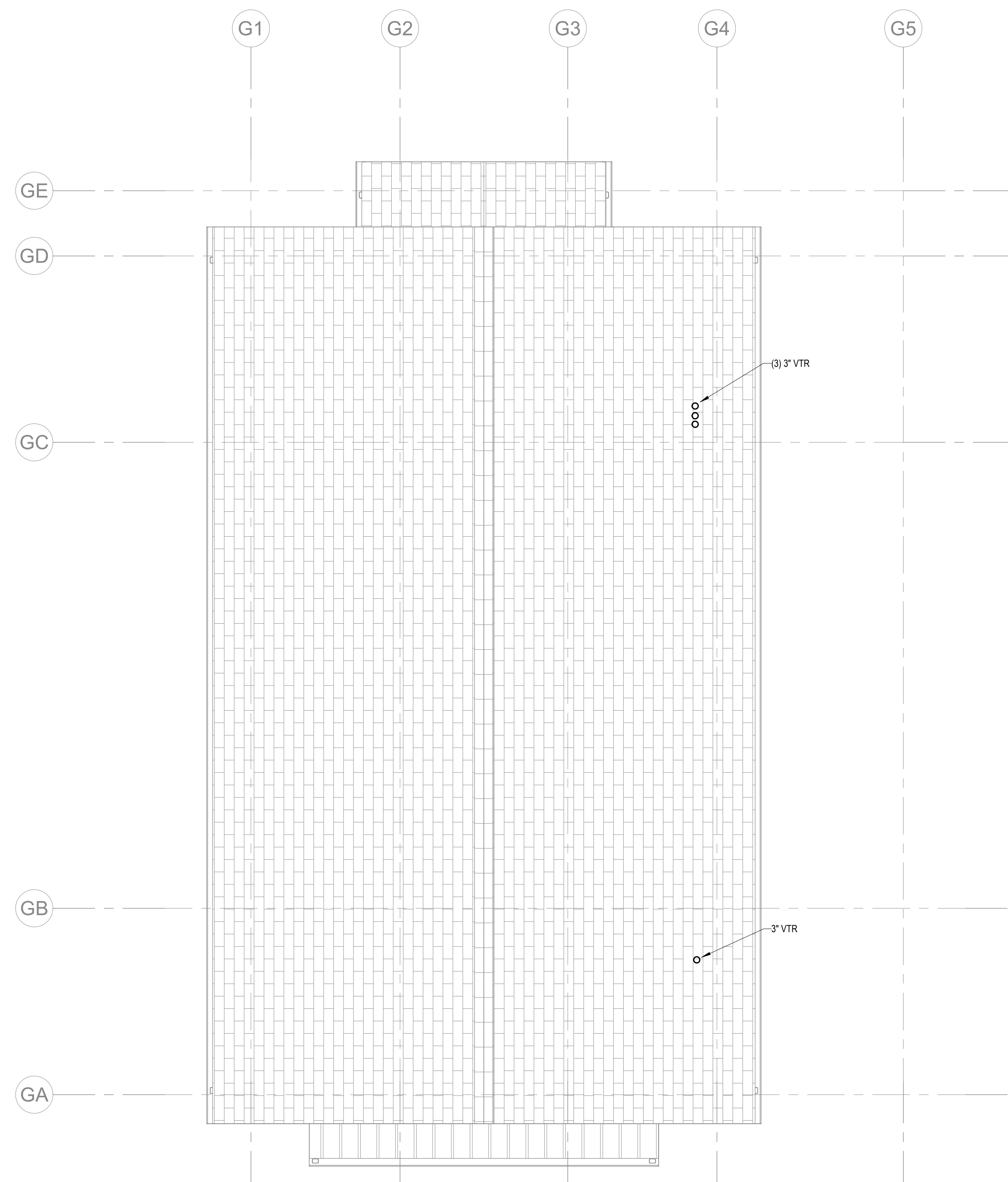
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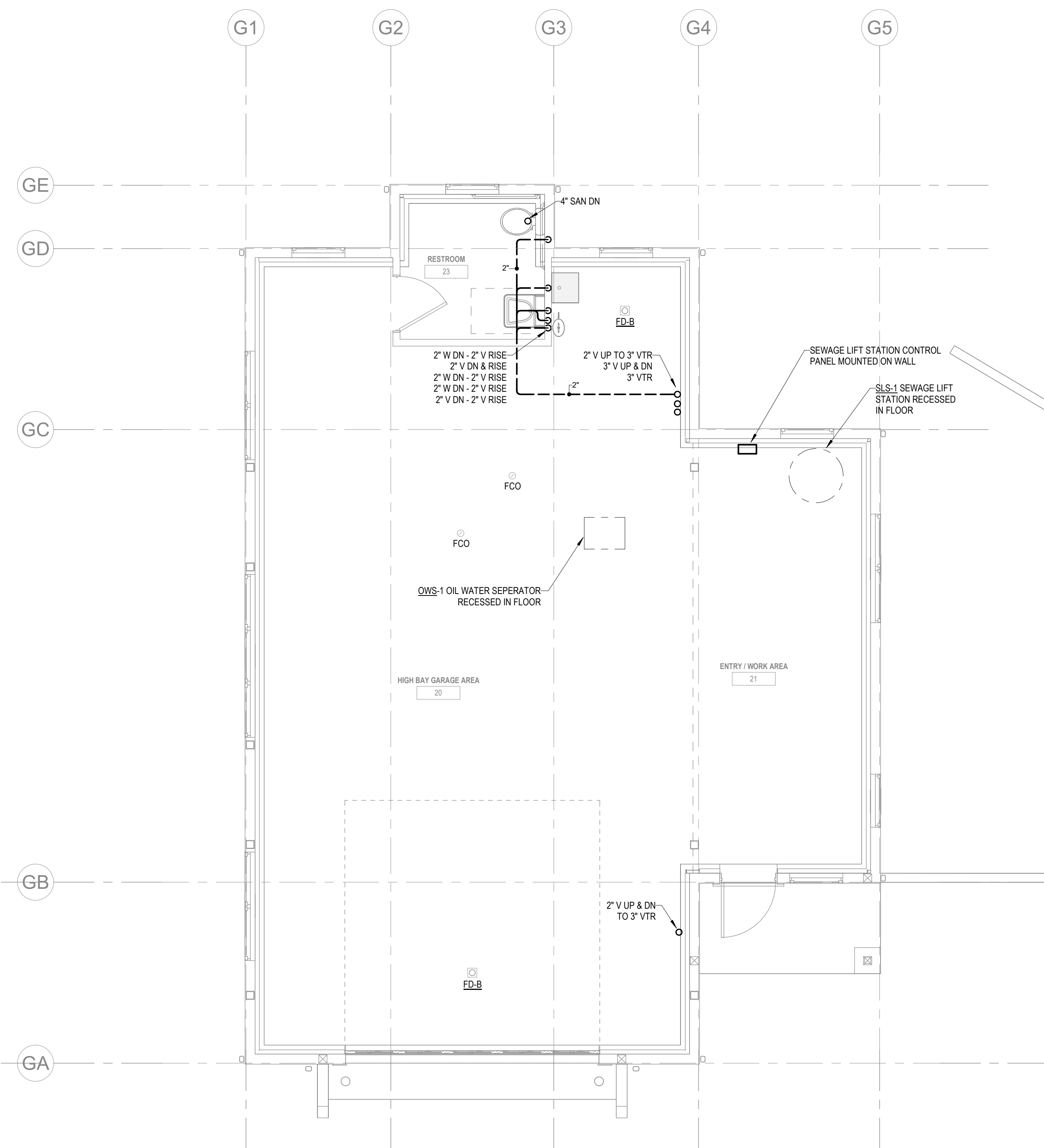
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**2** HARBORMASTER GARAGE - ROOF PLAN  
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**1** HARBORMASTER GARAGE - WASTE & VENT FLOOR PLAN  
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& VENT FLOOR  
PLAN**

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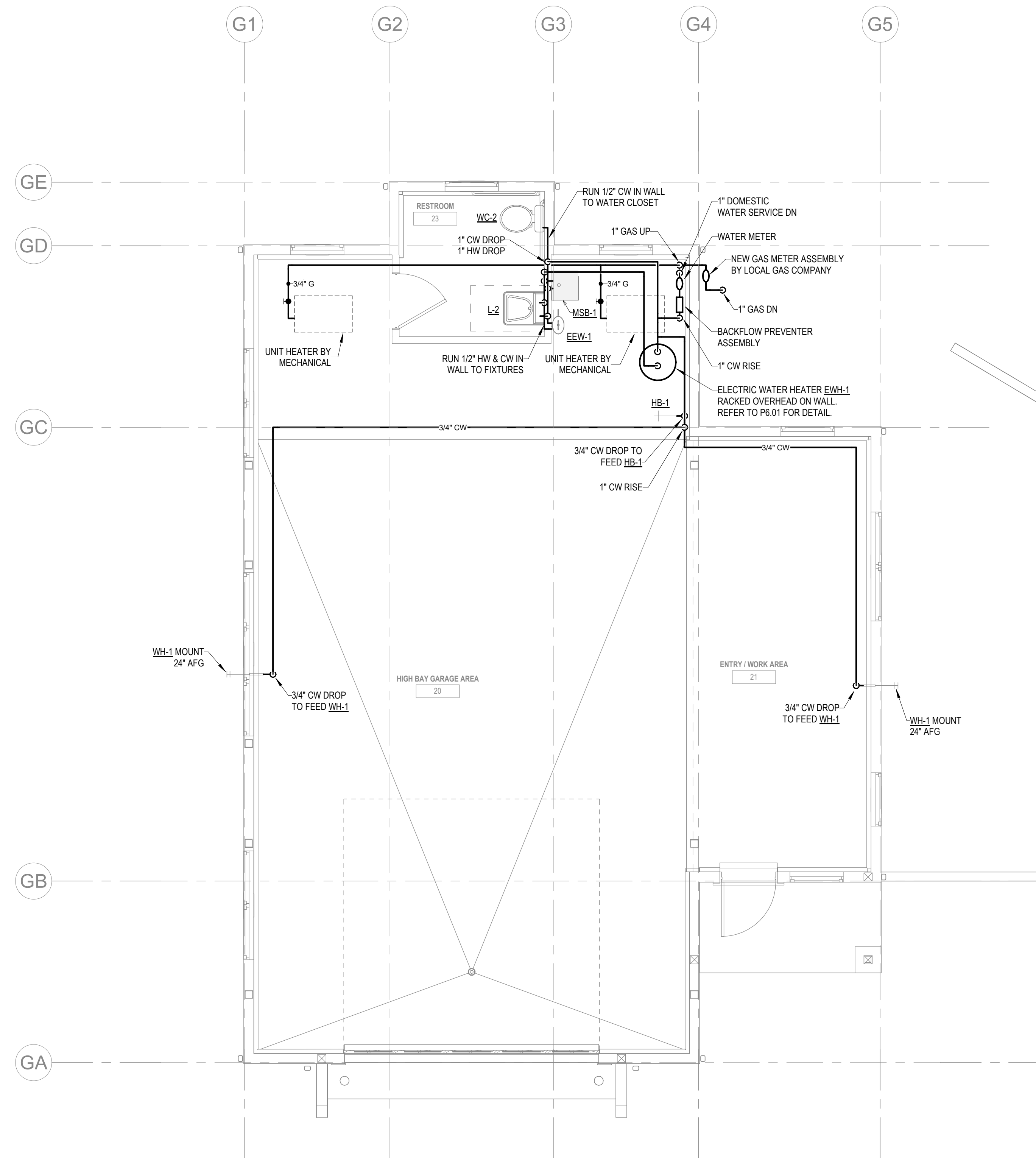
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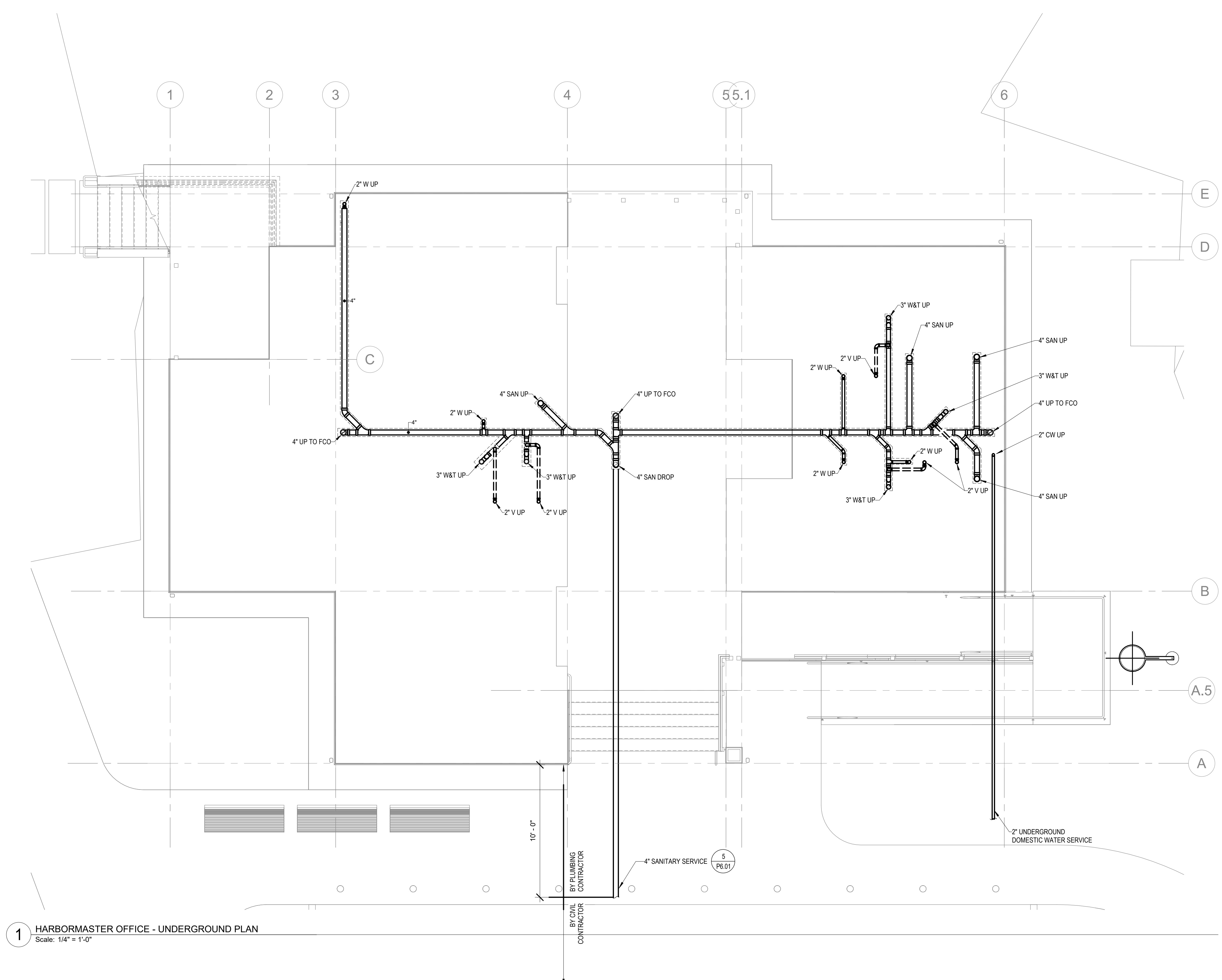
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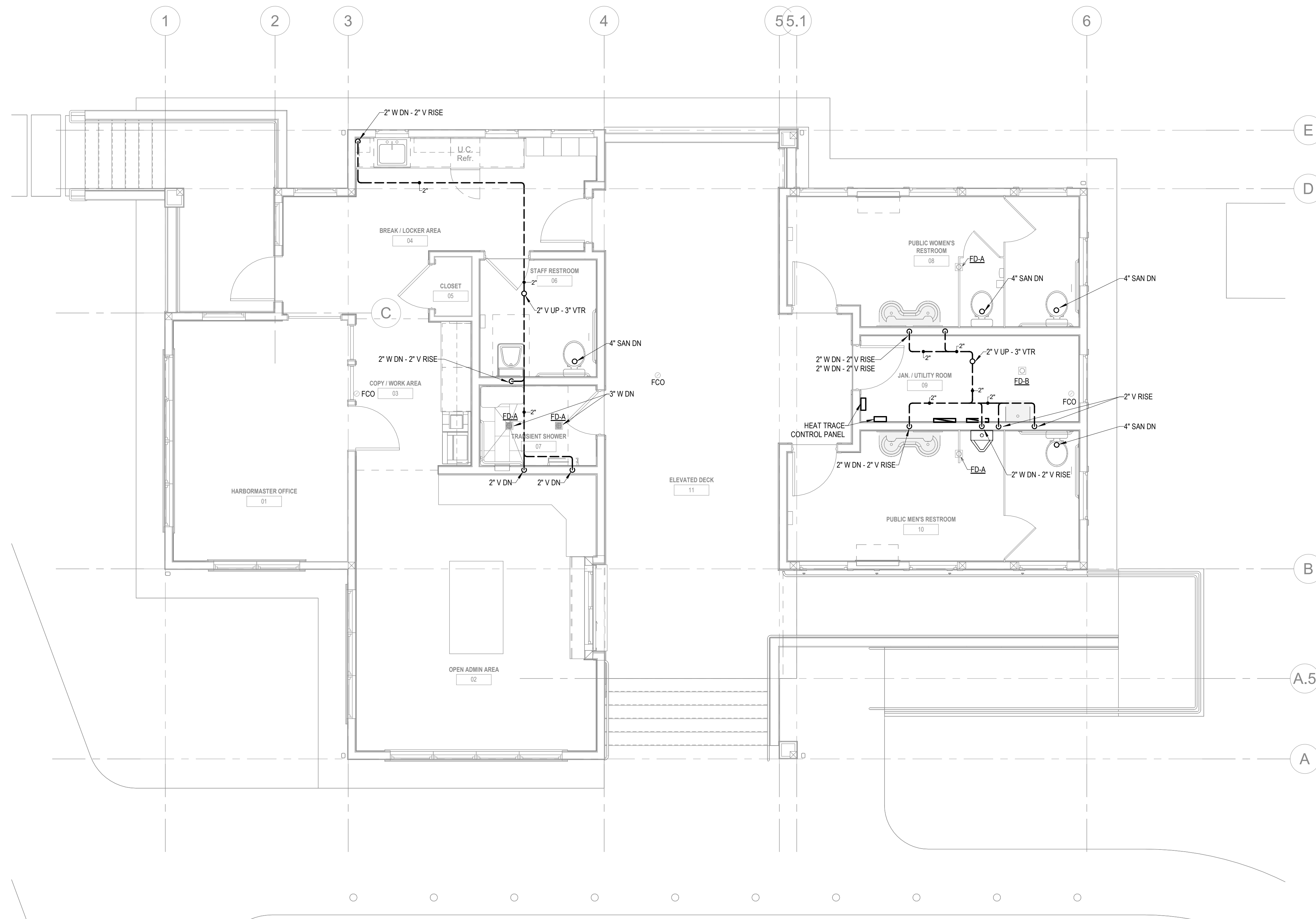
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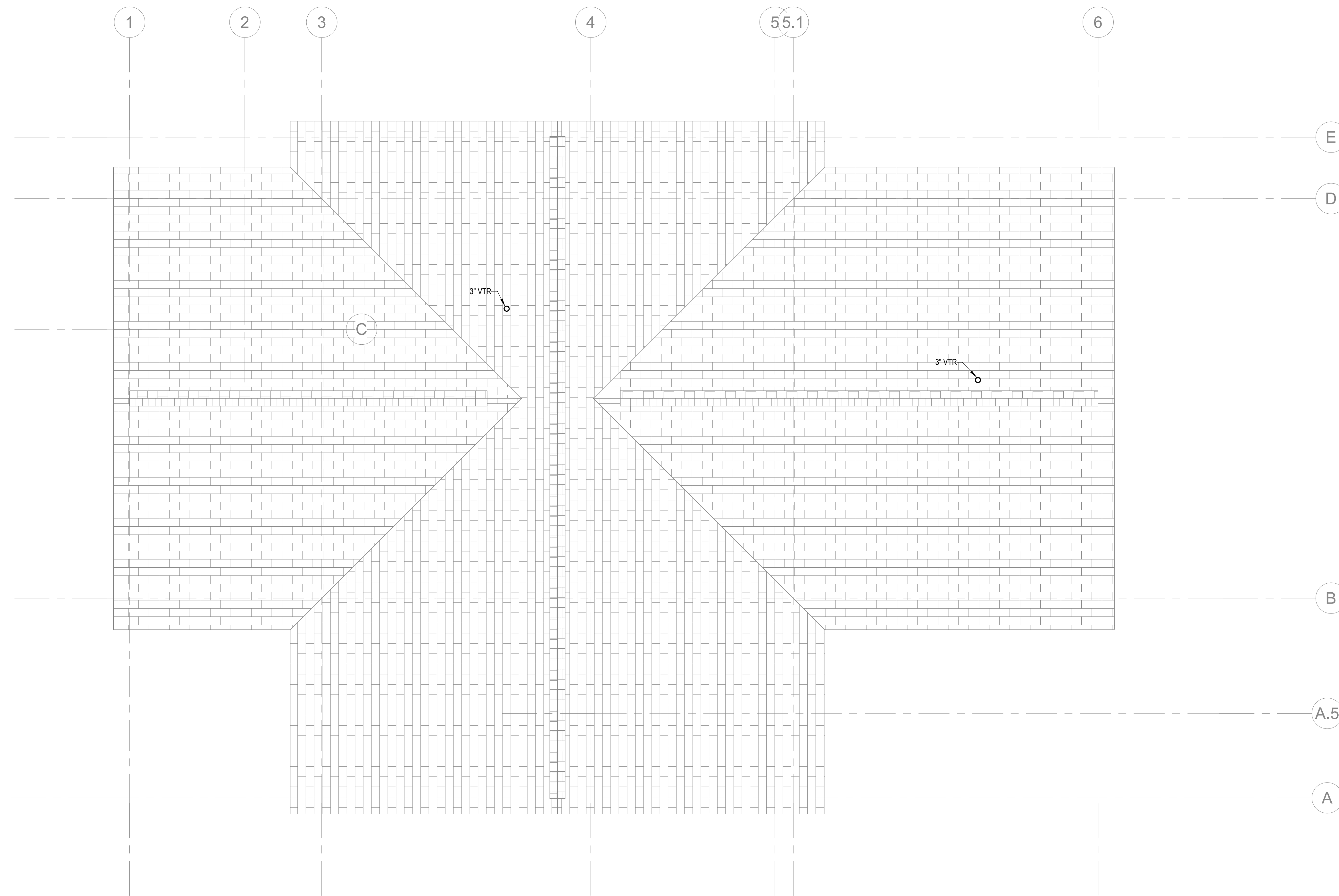
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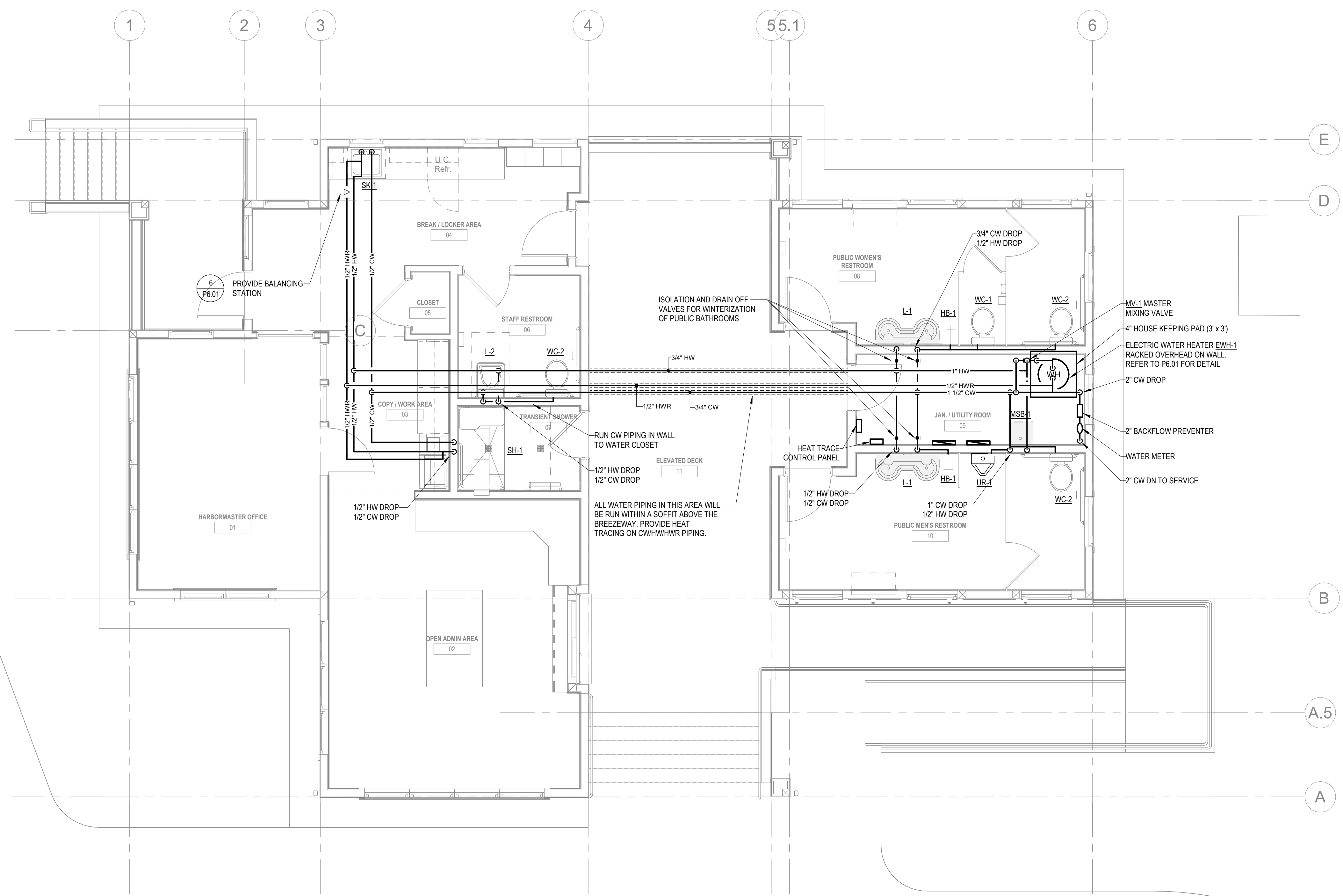
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PLUMBING FIXTURE SCHEDULE																										
TAG	DESCRIPTION	FIXTURE		WATER SUPPLY			APPURTENANCES					WASTE & TRAP	CARRIER	CONNECTION SIZE										ADA MET	REMARKS	
		MANUFACTURER	MODEL	MANUFACTURER	MODEL NO	SUPPLY	MANUFACTURER	MODEL NO	TYPE	MANUFACTURER	MODEL NO			TYPE	WASTE	VENT	HOT	COLD	TW	NPCW	NPHW	IW	LW			LV
WC-1	WATER CLOSET	AMERICAN STANDARD	CADET 2462.016	---	---	---	AMERICAN STANDARD	5901.100	OPEN FRONT SEAT	---	---	INTEGRAL	JR SMITH TO SUIT	4"	2"	---	1"	---	---	---	---	---	N	1.1 GPF		
WC-2	WATER CLOSET - ACCESSIBLE	AMERICAN STANDARD	CADET 2467.016	---	---	---	AMERICAN STANDARD	5901.100	OPEN FRONT SEAT	---	---	INTEGRAL	JR SMITH TO SUIT	4"	2"	---	1"	---	---	---	---	---	Y	1.1 GPF		
L-1	LAVATORY - MULTI-STATION	BRADLEY	MF2949	---	---	---	---	---	INTEGRAL MIXING VALVE	MCGUIRE MFG CO	LFBV-175 155A	ANGLE STOPS GRID STRAINER	MCGUIRE MFG CO 8090CBOS	---	2"	2"	1/2"	1/2"	---	---	---	---	---	N	0.35 GPM FAUCET, SINGLE HOLE LAV	
L-2	LAVATORY - ACCESSIBLE	AMERICAN STANDARD	DECORUM 9134.001EC	AMERICAN STANDARD	PARADIGM 702B.203	FAUCET	AMERICAN STANDARD	605XTM/1070 PK00.WRK	MIXING VALVE 10 YEAR BATTERY	MCGUIRE MFG CO	LFBV-175 155WC	ANGLE STOPS OFFSET DRAIN	MCGUIRE MFG CO 8090CBOS	JR SMITH TO SUIT	2"	2"	1/2"	1/2"	---	---	---	---	---	Y	0.35 GPM FAUCET, SINGLE HOLE LAV	
SK-1	SINK	ELKAY	ELUH1814PD	DELTA	19737LF	FAUCET	---	---	---	MCGUIRE MFG CO	LFBV-175 1152WC	ANGLE STOPS GRID STRAINER	MCGUIRE MFG CO 8090CBOS	---	2"	2"	1/2"	1/2"	---	---	---	---	---	Y	---	
UR-1	URINAL	AMERICAN STANDARD	DECORUM 6042.001EC	AMERICAN STANDARD	SELECRONIC 6063.013.002	FLUSH VALVE	---	---	---	---	---	---	---	---	2"	2"	---	1/2"	---	---	---	---	---	---	---	
MSB-1	MOP SERVICE BASIN	FIAT	T8B3000	FIAT	830A4000	FAUCET	FIAT	832-AA	HOSE & BRACKET	FIAT	889-CC	MOP HANGER	TRAP TO SUIT	---	3"	2"	1/2"	1/2"	---	---	---	---	---	---	24" x 24" BASIN	
HB-1	HOSE BIBB	T&S BRASS	B-0720	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT AT 18" A.F.F. UNLESS NOTED ON DRAWINGS	
WH-1	WALL HYDRANT	WOODFORD	MODEL 65 BOX TYPE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	AUTOMATIC DRAINING WITH VACUUM BREAKER
SH-1	SHOWER	---	---	SYMONS	9605-PLR	SHOWER VALVE ASSEMBLY	---	---	---	---	---	---	---	---	2"	2"	1/2"	1/2"	---	---	---	---	---	---	---	HAND-HELD SHOWER WITH PRESSURE BALANCING VALVE

NOTE: \*ALL PLUMBING FIXTURES THAT ARE ACCESSIBLE & SHALL BE INSTALLED PER ADA STANDARDS.  
 \*REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS.  
 \*REFER TO ARCHITECTURAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.  
 \*CONTRACTOR TO PROVIDE SOLID INTERCEPTOR ON ALL ART ROOM SINKS.

MASTER MIXING VALVE SCHEDULE							
SYMBOL	MANUFACTURER	MODEL	MAXIMUM GPM	PSI DROP	INLET TEMP	OUTLET TEMP	REMARKS
MV-1	POWERS	LFLM490	23	10	140°	125°	PROVIDE INLET CHECK STOPS, HEAT TRAPS

PUMP SCHEDULE														
SYMBOL	MANUFACTURER	MODEL	CAPACITY GPM	FT HEAD	SHUT-OFF FT HEAD	NPSHR FT	PUMP CHARACTERISTICS			ELECTRICAL			REMARKS	
							QUANTITY	HP	RPM	TYPE	VOLTS	PHASE		HZ
RP-1	TACO	007E-SF4	16	10	---	---	1	1/16	VARIES	---	120	1	60	RECIRC PUMP WITH 125° PUMP RETURN
SLS-1	LIBERTY PUMPS	LE1M2-2	160	29	---	---	2	3/4	---	---	120	1	60	DUPLEX SEWAGE PUMP SYSTEM WITH CONTROL PANEL. REFER TO SPECIFICATION 220000.

DRAIN SCHEDULE						
TYPE	FUNCTION	MANUFACTURER	MODEL	OUTLET	STRAINER	REMARKS
FD-A	GENERAL AREA DRAIN	JR SMITH	2010-B-P050	2-4"	6" SQUARE	W/ TRAP PRIMER, REFER TO DRAWINGS FOR OUTLET SIZE.
FD-B	MECHANICAL SPACE DRAIN	JR SMITH	2142-P050-U	4"	12" ROUND	W/ TRAP PRIMER, SEDIMENT BUCKET, VANDAL PROOF SCREWS
---	---	---	---	---	---	---

NOTE: PROVIDE TRAP PRIMER CONNECTIONS AT ALL FLOOR DRAIN LOCATIONS.

SHOCK ABSORBER SCHEDULE						
SYMBOL	MANUFACTURER			FIXTURE UNITS	PIPE SIZE	REMARKS
	J.R. SMITH	JOSAM	ZURN			
SA-1	5005	75001A	Z1700-100	1-11	3/4"	WITH ACCESS PANEL
SA-2	5010	75002B	Z1700-200	12-32	1"	WITH ACCESS PANEL

NOTE: PROVIDE SHOCK ABSORBERS AT ALL FIXTURES OR EQUIPMENT WHICH HAVE QUICK-CLOSING VALVES SUCH AS A FLUSH VALVE OR SOLENOID VALVE.

PLUMBING ELECTRICAL EQUIPMENT							
UNIT NO.	UNIT FUNCTION	UNIT LOCATION	ELECTRICAL				REMARKS
			HP	V	PH	KW	
RP-1	HWR CIRC.	JAN / UTILITY ROOM	14	120	1	---	CONNECTED TO BMS
EWH-1	ELECTRIC WATER HEATER	JAN / UTILITY ROOM	---	120	1	3.0	---
SLS-1	DUPLEX SEWAGE LIFT STATION PUMPS	ENTRY / WORK AREA	34	120	1	---	DUPLEX PUMP SYSTEM WITH CONTROL PANEL
SLS-1	SEWAGE LIFT STATION CONTROL PANEL	ENTRY / WORK AREA	---	120	1	---	NEMA 1 ENCLOSURE FOR INDOOR USE
---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---

ELECTRIC WATER HEATER SCHEDULE												
SYMBOL	MANUFACTURER	MODEL	STORAGE GALLONS	RECOVERY		NO. OF ELEMENTS	ELECTRICAL				TEMP SETTING	REMARKS
				GPH	DEG RISE		KW	V	PH	HZ		
EWH-1	A.O. SMITH	DEN-40	50	14	90	1	3.0	120	1	60	120°	REFER TO DETAIL 1 ON DRAWING P601
---	---	---	---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---

INTERCEPTOR SCHEDULE						
SYMBOL	MANUFACTURER	MODEL	SIZE	GPM	CAPACITY	REMARKS
OS-1	STRIEM	OS-25	3"	25	21 GAL.	OIL SEPARATOR
---	---	---	---	---	---	---

\*OR APPROVED EQUAL

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 DENNIS, MA 02660

TITLE:  
**PLUMBING SCHEDULES**

DATE ISSUED:  
 08 . 01 . 2025

REVISIONS:

No.	Description	Date

DRAWING NO.:

**P5.01**

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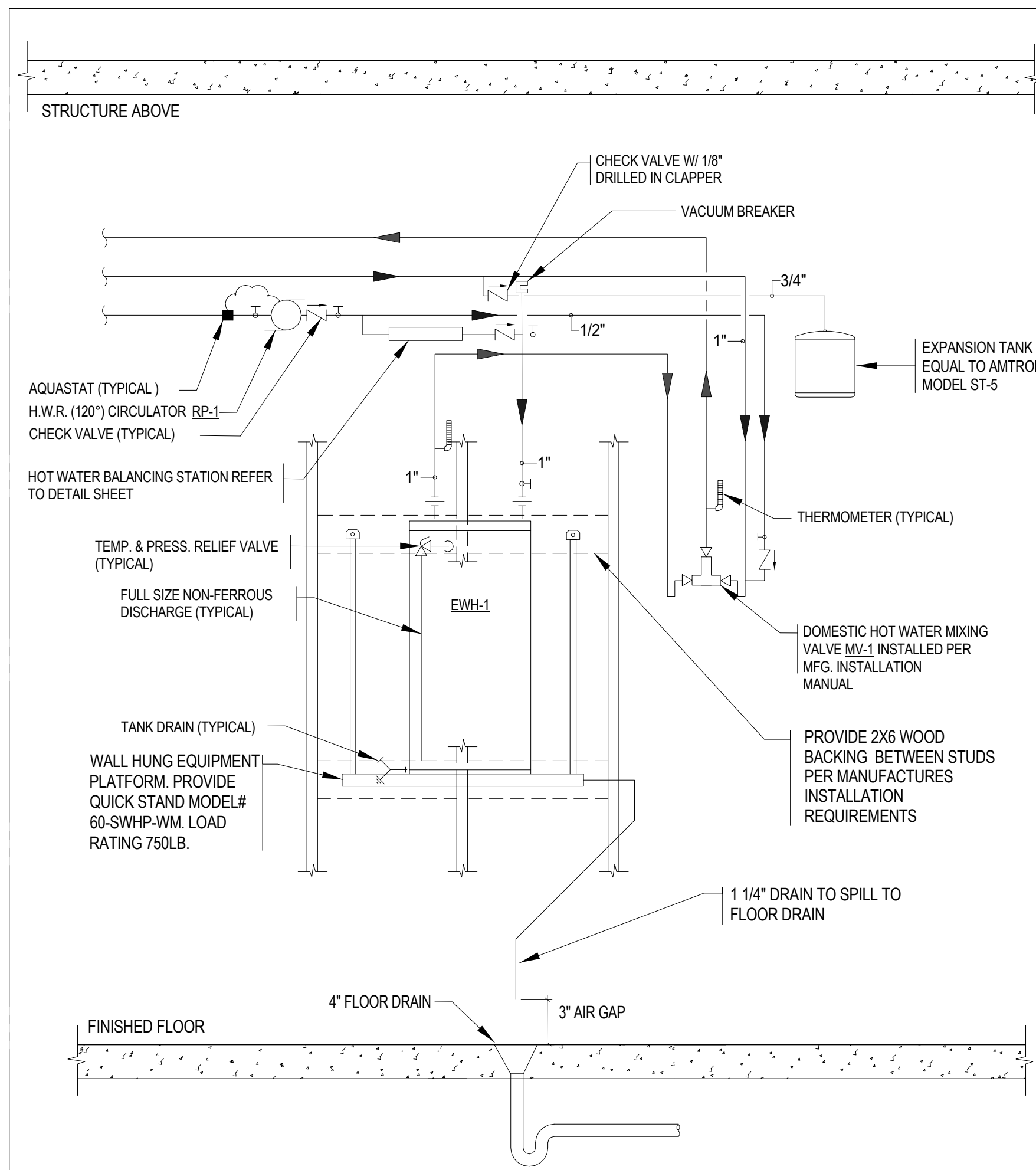
Consulting Engineers

12 Kendrick Road  
 Wareham, MA 02571  
 508-295-0050 (T)  
 508-295-0003 (F)  
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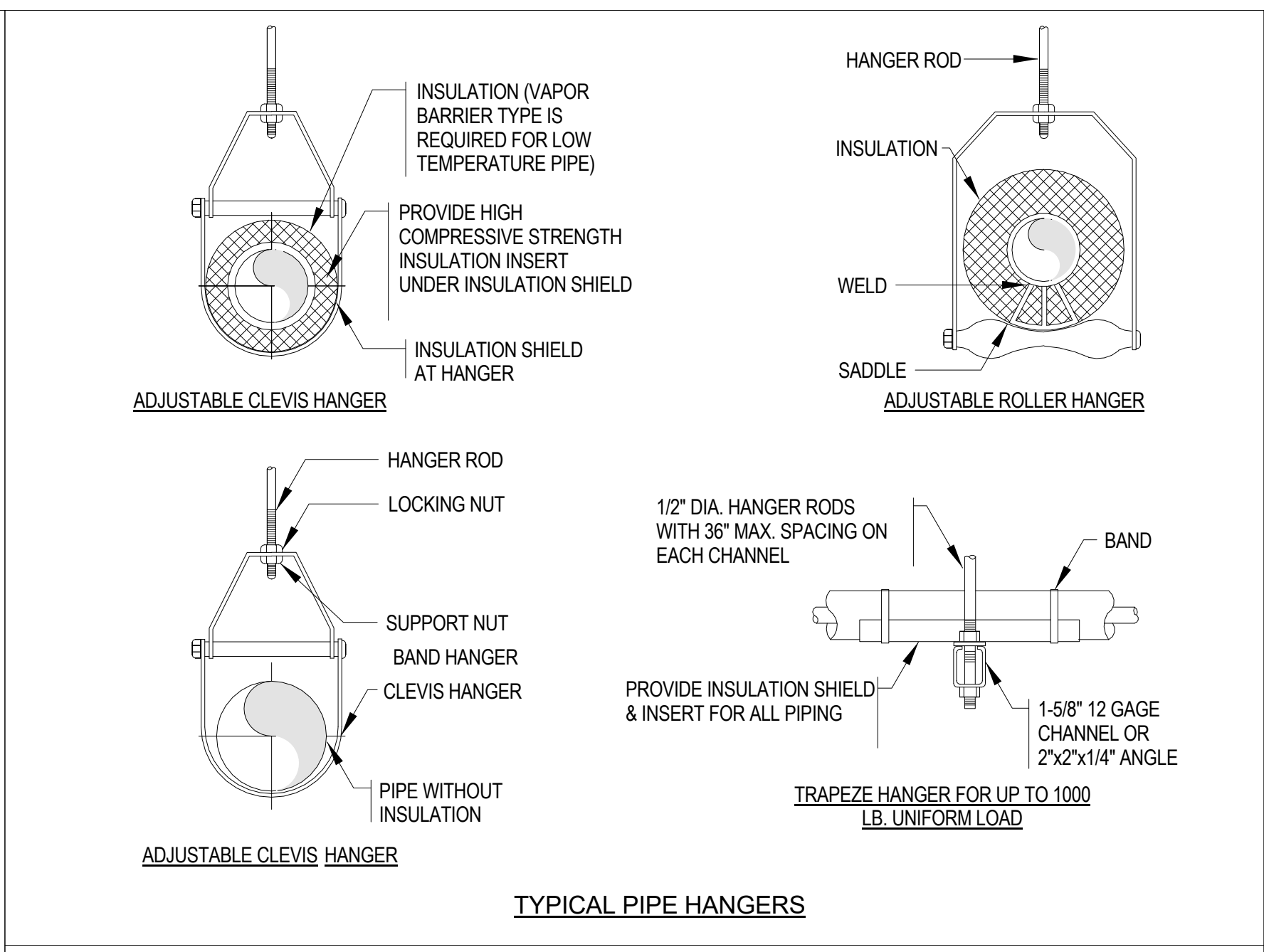
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1 WATER HEATER ABOVE FLOOR DRAIN SCALE NOT TO SCALE

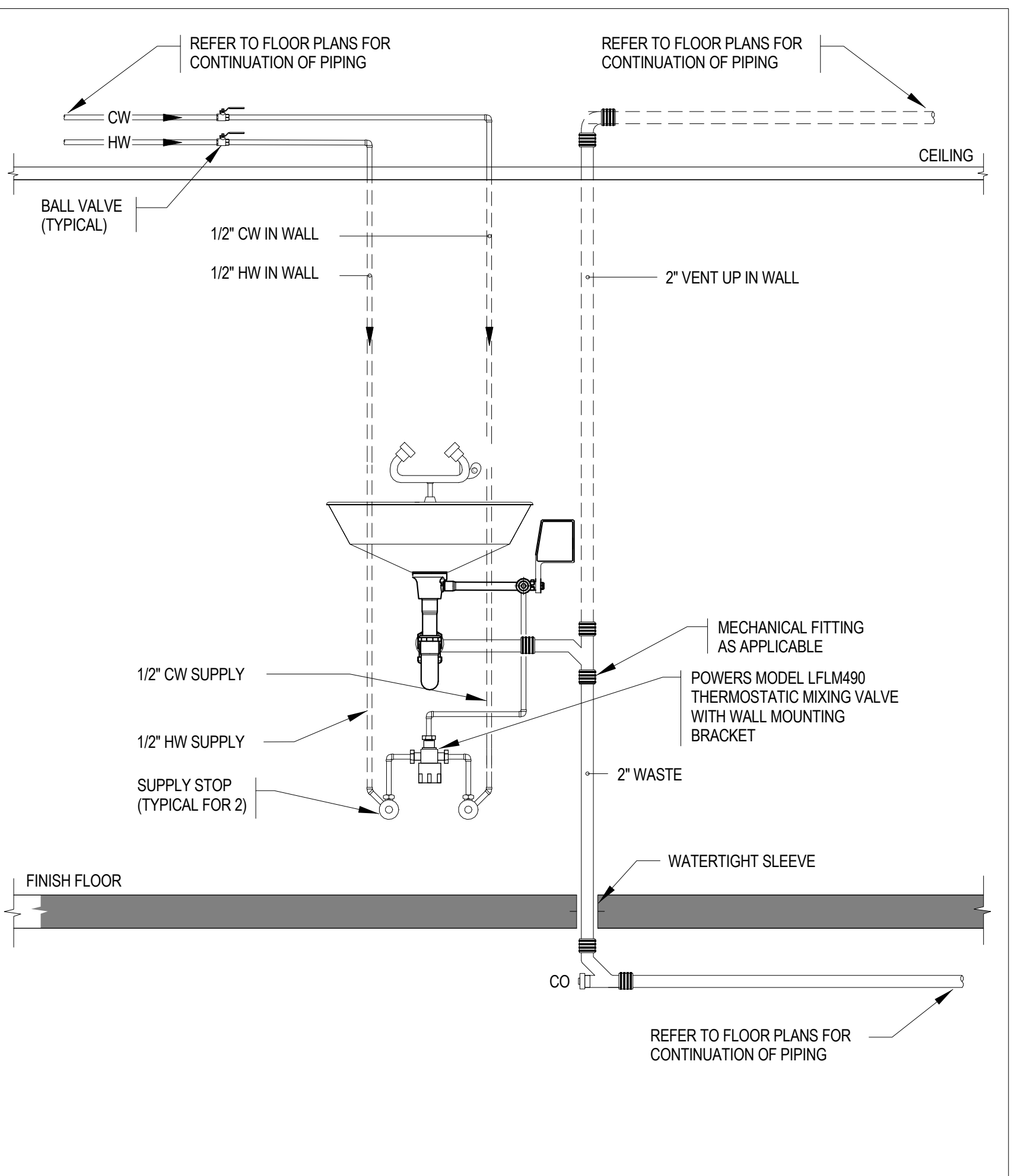


MAXIMUM PIPE/TUBING SUPPORT SPACING, FEET																		
NOM. SIZE	THRU 3/4"	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
PIPE	7 FT	7	7	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32
TUBING	5 FT	6	7	8	8	9	10	12	13	14	16	-	-	-	-	-	-	-

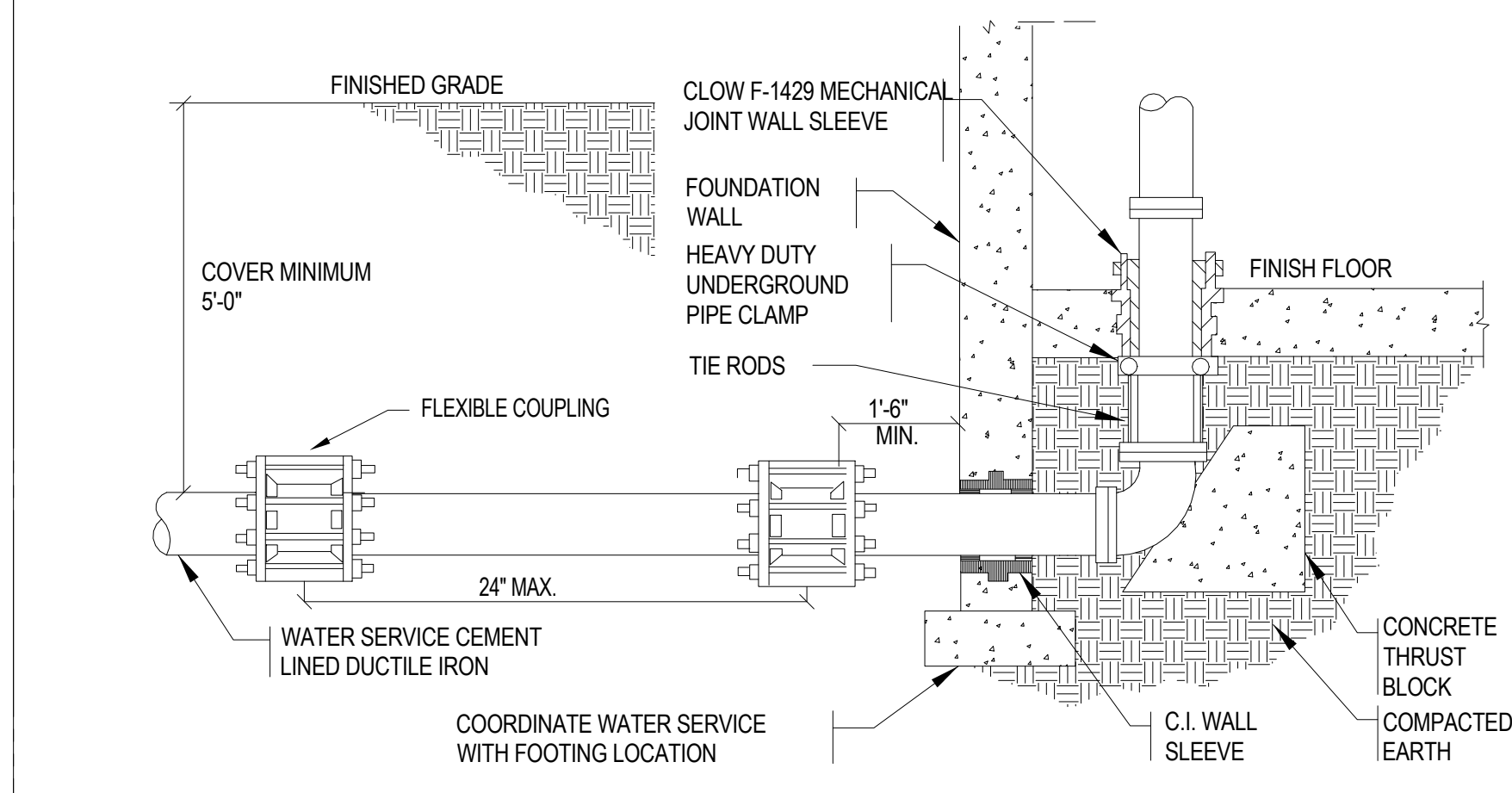
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE

HANGER ROD SCHEDULE				HANGER ROD SPACING			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE	PIPE SIZE	MAX. ALLOWABLE SPACING	PIPE SIZE	MAX. ALLOWABLE SPACING
UP TO 2"	3/8" DIA.	6" THRU 8"	3/4" DIA.	1"	7'	2-1/2"	11'
2-1/2" THRU 3"	1/2" DIA.	12"	7/8" DIA.	1-1/4"	8'	3" THRU 8"	12'
4" AND 5"	5/8" DIA.			1-1/2"	9'	10" & 12"	15'
				2"	10'		

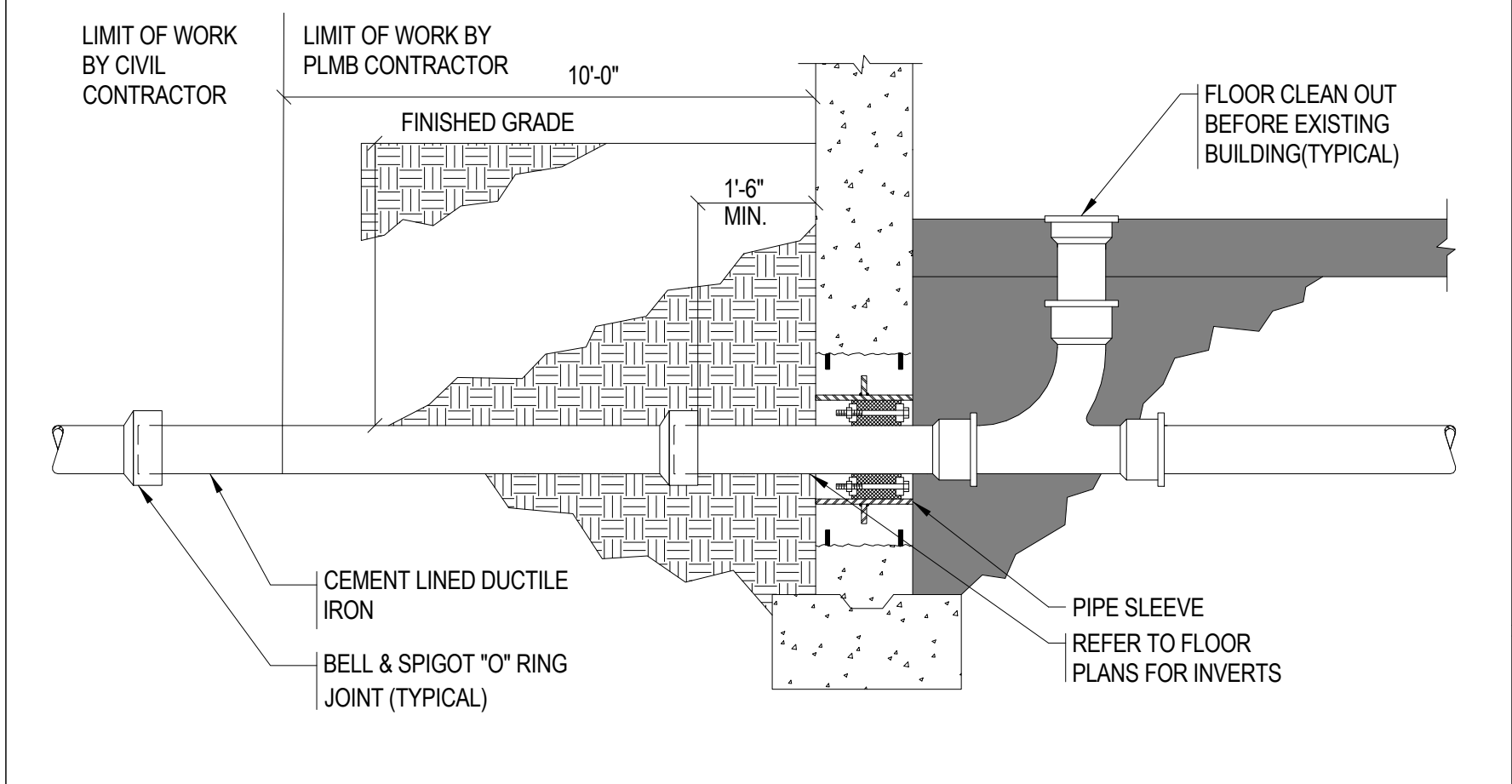
2 PIPE HANGER REQUIREMENTS SCALE NOT TO SCALE



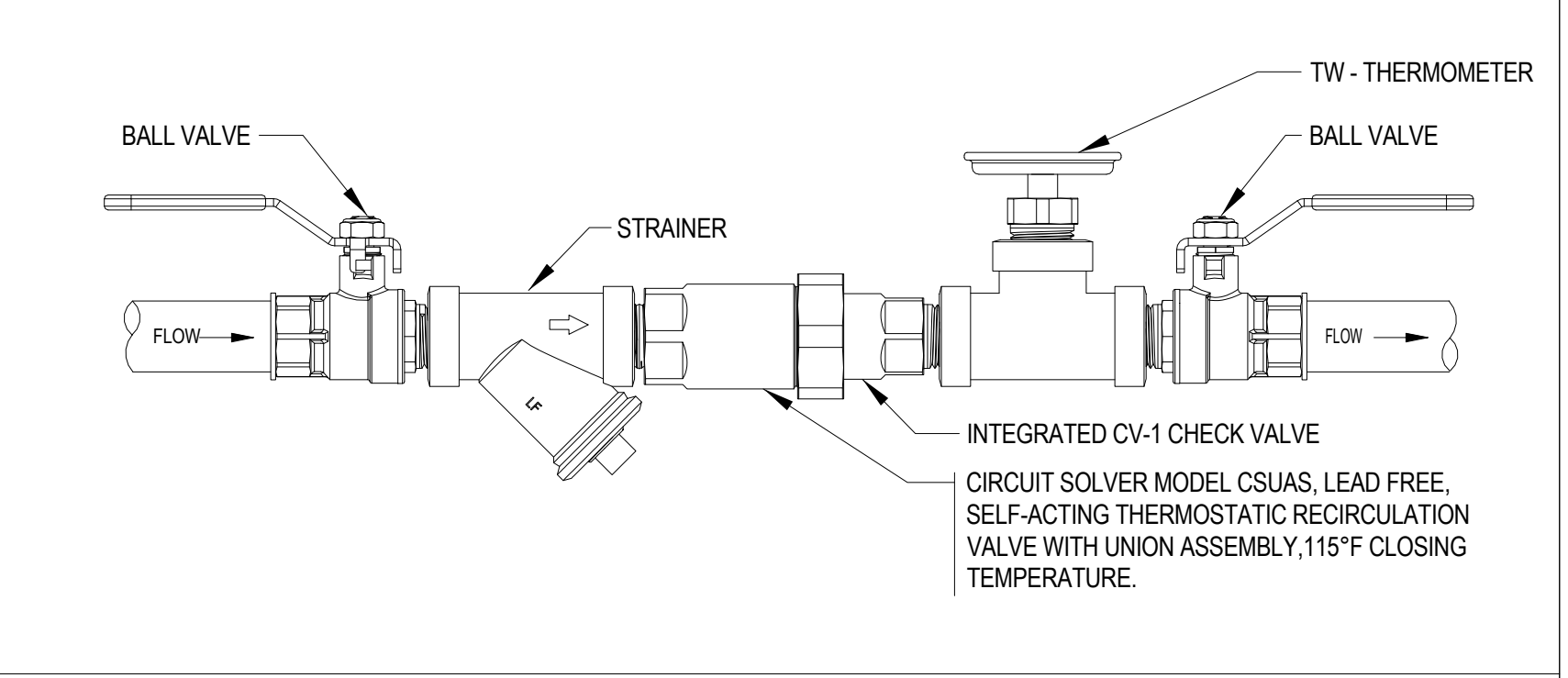
3 EMERGENCY EYEWASH INSTALLATION SCALE NOT TO SCALE



4 WATER SERVICE ENTRANCE THROUGH FLOOR SCALE NOT TO SCALE



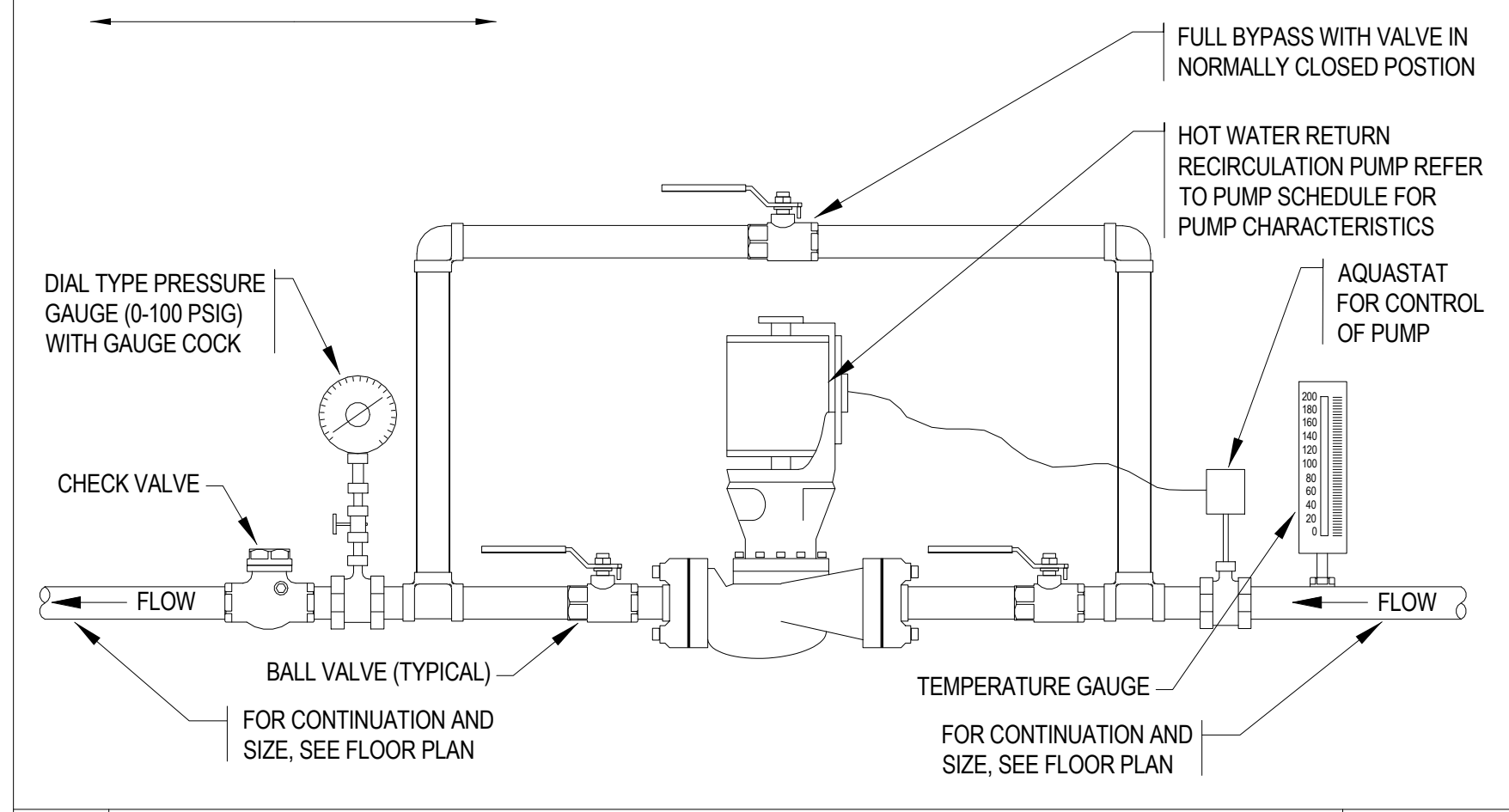
5 SANITARY & STORM WATER SERVICES SCALE NOT TO SCALE



NOTES:

- CIRCUIT SOLVER SIZE TO MATCH HOT WATER RETURN PIPING SIZING. REFER TO PLANS FOR HOT WATER RETURN SIZING.
- HOT WATER RECIRCULATION STATION TO BE PROVIDED AT BRANCH INTERSECTIONS TO GUARANTEE HOT WATER FLOW IN BRANCH SEGMENTS.

6 HOT WATER RECIRCULATION BALANCING STATION SCALE NOT TO SCALE



7 HOT WATER RECIRCULATION PUMP ASSEMBLY SCALE NOT TO SCALE

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