

CONSTRUCTION PLANS FOR:

# GLENDALE FIRE STATION

PREPARED FOR:

## BOARD OF COUNTY COMMISSIONERS WALTON COUNTY, FLORIDA

PROJECT NUMBER - 50150622

JANUARY 2024



877 CR 393 North  
Santa Rosa Beach, FL 32459  
850.267.0759

GLENDALE FIRE STATION  
BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
FLORIDA

GOVERNING STANDARD PLANS:  
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD PLANS FOR ROAD  
AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IR'S)

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IR'S ARE AVAILABLE AT  
THE FOLLOWING WEBSITE: <http://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD  
AND BRIDGE CONSTRUCTION, JANUARY 2021

CONSTRUCTION SEQUENCE								
	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8
STATE/FEDERAL PERMITS APPROVED	█							
INSTALL INITIAL STAGE EROSION CONTROL MEASURES	█							
DEMOLITION / CLEARING AND GRUBBING	█							
CONSTRUCT STORM SEWER				█				
CONSTRUCT UTILITIES				█				
SITE CONSTRUCTION				█				
BUILDING CONSTRUCTION				█				
ESTABLISH PERMANENT LANDSCAPING						█		
PERMANENT VEGETATION IS ESTABLISHED							█	
AS-BUILT CERTIFICATION								█

SEAL

RUDOLPH A. MALL P.E. 94479  
EB 0008794

FOR BID

SCALE

REVISIONS

NO.	DESCRIPTION	DATE

NO. DESCRIPTION DATE

DRAWN BY \_\_\_\_\_ BTW

APPROVED BY \_\_\_\_\_ BTW

CHECKED BY \_\_\_\_\_ RAM

DATE \_\_\_\_\_ JANUARY 2024

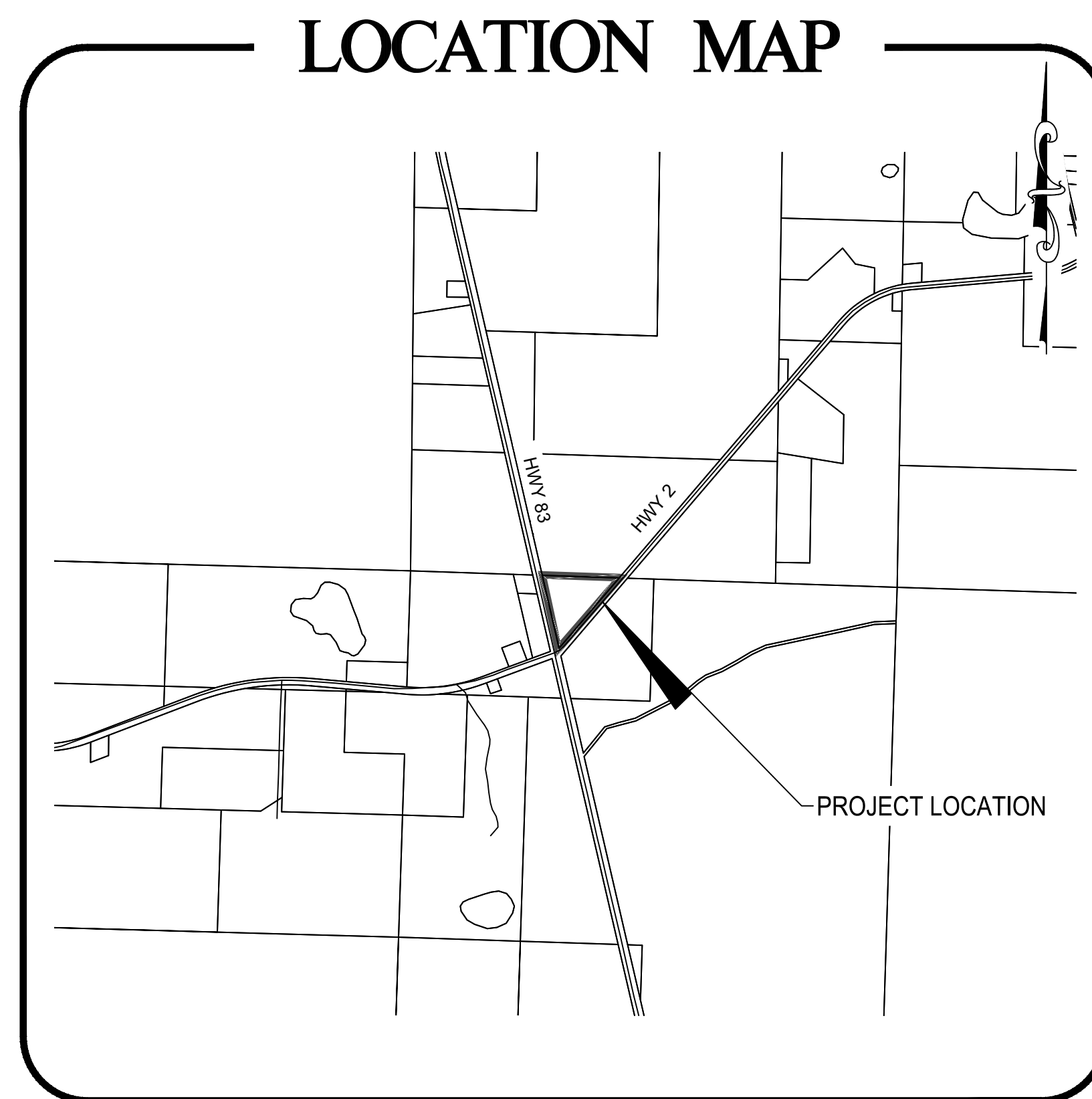
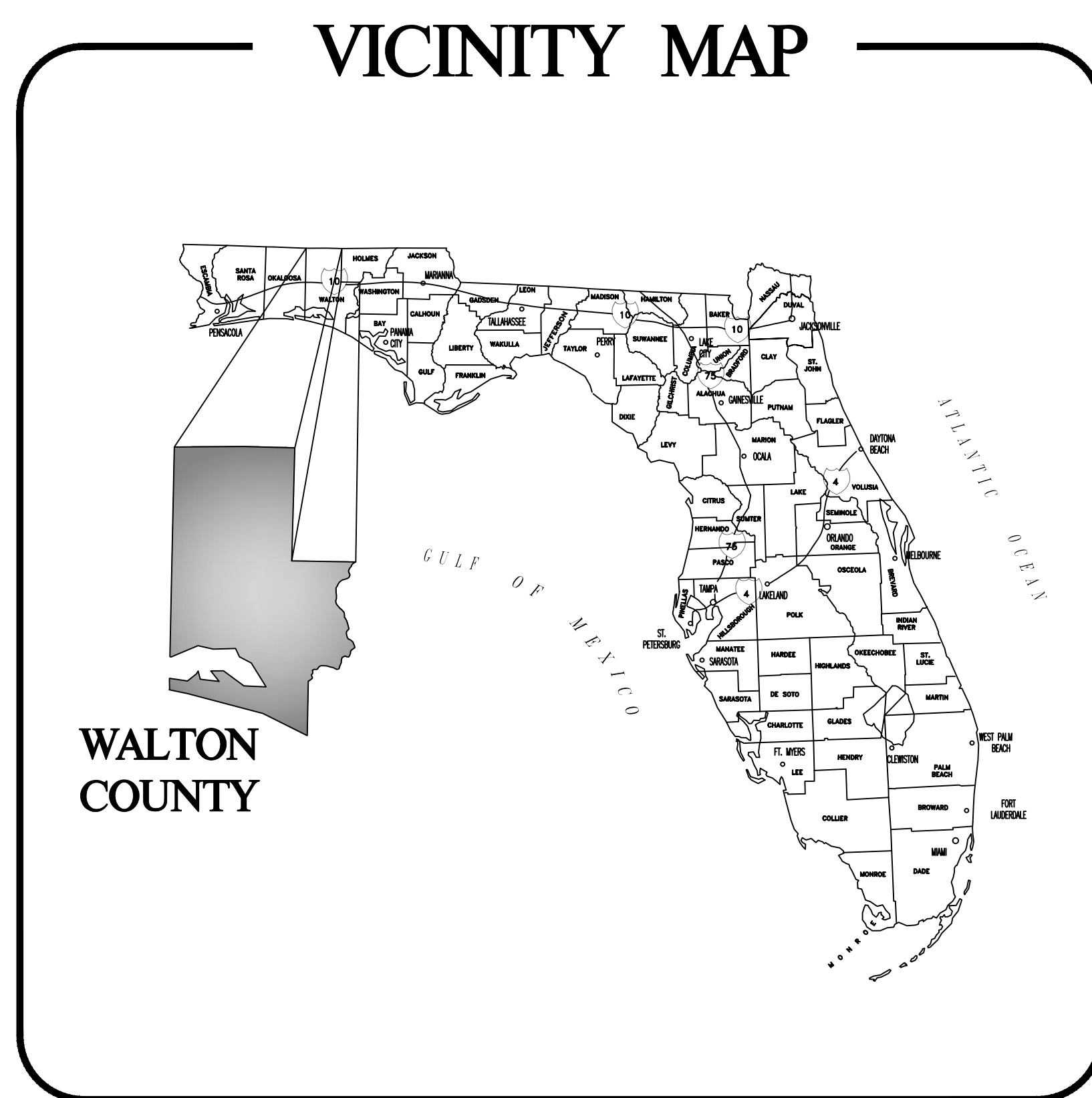
TITLE

COVER SHEET

PROJECT NO. 50150622

# CVR

SHEET NO.



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TITLE

GENERAL NOTES  
 AND LEGEND

PROJECT NO. 50150622

C1.1

SHEET NO.

GENERAL NOTES:

1. THE CONTRACTORS SHALL NOTIFY THE ENGINEER OF RECORD OR DESIGNEE 48 HOURS PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING PRIVATE AND PUBLIC UTILITIES, PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. EXISTING UTILITIES ARE APPROXIMATE AND BASED ON PREVIOUS DESIGN, SURVEY, THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY AND ALL UTILITIES AS REQUIRED BY THE PLANS, AND UTILITY COMPANIES TO CONSTRUCT THE PROPOSED IMPROVEMENTS. UNLESS OTHERWISE STATED, CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COST OF SAID RELOCATION. IF NECESSARY CONTRACTOR SHALL ALSO NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL (800-432-4770) AT LEAST 2 FULL DAYS PRIOR TO EXCAVATION OR DEMOLITION. NOTE NOT ALL UTILITIES ARE UNDER THIS PROGRAM SO CONTRACTOR SHALL ENSURE TO THE BEST EXTENT CONTACT WITH ACTUAL COMPANIES. CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER WHEN ANY INFRASTRUCTURE IS BEING PUT IN PLACE FOR ANY CONFLICT RESOLUTIONS. DEPTHS OF UTILITIES ON THESE PLANS ARE APPROXIMATE AND NOT ALL UTILITIES ARE LOCATED.
3. CONTRACTOR WILL COORDINATE WITH GEOTECHNICAL ENGINEER TO ENSURE THAT TESTING IS DONE FOR ALL SOILS, ASPHALT, AND BASE THAT IS ON THE PROJECT.
4. ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE WALTON COUNTY AND OTHER PERMITTING AGENCIES SHALL BE COMPLIED WITH IN EVERY DETAIL.
5. ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY OR ENGINEER OR DESIGNEE. CONTRACTOR SHALL ALSO REFER TO FDOT STANDARD INDEX FOR ROADWAYS THAT NEED TO BE REPAIRED DUE TO UTILITY CONSTRUCTION.
6. THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING SILT FENCE AND/OR STAKED HAY BALES AS REQUIRED BY FDOT SPECIFICATION 104, THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, LATEST EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DESIGNEE.
7. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL ALSO MAINTAIN EROSION CONTROL DEVICES DURING CONSTRUCTION TO PREVENT SEDIMENT FROM LEAVING THE PROJECT SITE AND ENTERING THE EXISTING STORMWATER SYSTEM. THE EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL (SWPPP) PLANS ARE THE MINIMUM REQUIRED AND SHALL BE MAINTAINED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED BY THE INSPECTOR TO CONTROL SEDIMENTS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL STORMWATER RUNOFF SHALL BE CONTROLLED DURING THE COURSE OF CONSTRUCTION. IMPACT TO OFFSITE IS NOT ANTICIPATED. ALSO, THE CONTRACTOR SHALL REFER TO THE "FLORIDA STORMWATER EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL" FOR ADDITIONAL EROSION CONTROL MEASURE AND ALTERNATIVES. ALTERNATIVES BY THE CONTRACTOR SHALL BE APPROVED BY THE ENGINEER AND INSPECTOR. CONTRACTOR SHALL SEEK APPROVAL FROM COUNTY AND THE ENGINEER OF RECORD FOR ANY SUBSTITUTIONS TO THE EROSION CONTROL MEASURES.
8. ALL DISTURBED AREAS ON PROJECT SITE SHALL BE SODDED, UNLESS OTHERWISE NOTED ON THE PLANS. ALL SODDING SHALL BE PINNED ON SLOPES GREATER THAN 3:1 TO PREVENT EROSION. DISTURBED AREAS OUTSIDE THE SILT FENCED PERIMETER SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADE IS ACHIEVED. ALL DISTURBED AREAS TO BE LEFT IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH QUICK GROW SEED AND MULCH. THE CONTRACTOR SHALL WARRANTY FOR A MINIMUM OF 1 YEAR AFTER ACCEPTANCE (OR LONGER AS SPECIFIED ELSEWHERE).
9. ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. OWNER OR ITS DESIGNEE WILL ASSIST THE CONTRACTOR WITH REQUIRED PERMITS.
10. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.
11. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY OKALOOSA COUNTY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF ANY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE MONUMENTS AND HAVE THE MONUMENTS POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR OR MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND APPROVAL.
12. EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
13. THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
14. EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.
15. ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, "DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS", SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE WALTON COUNTY TECHNICAL SPECIFICATIONS. CONTRACTOR MAY SUBSTITUTE FDOT ITEMS FOR THE INFRASTRUCTURE CONSTRUCTION; ANY SUBSTITUTIONS SHALL HAVE A MINIMUM 50 YEAR LIFESPAN. CONTRACTOR WILL BE REQUIRED TO PROVIDE DESIGNS OR VERIFICATION OF SUBSTITUTE. ALL SIGNS REFERRED TO IN THE PLANS SHALL BE IN ACCORDANCE WITH MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) LATEST EDITION. ALL STRUCTURES THAT ARE SUBSTITUTED SHALL HAVE OPENINGS SIMILAR TO THOSE NOTED IN THE FDOT INDEX OR THOSE SPECIFIED ON THE PLANS.
16. EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS/HER EXPENSE.
17. CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P. AND NFWFMD. OF ENGINEERS REQUIREMENTS IF REQUIRED.
18. GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCRDACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.
19. ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE PRESERVED UNLESS OTHERWISE NOTED IN PLANS.
20. ALL COMPACTED FILL SHALL BE PLACED IN FOUR INCH (4") LIFTS FOR HAND POWERED TAMPERS AND EIGHT INCH (8") LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.
21. MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 102.
22. PIPE LENGTHS SHOWN IN THE PLANS DO NOT INCLUDE THE LENGTH OF PIPE THAT MUST BE INSTALLED WITH THE MITERED END SECTION. THEREFORE, ALL PIPE LENGTHS ASSOCIATED WITH MITERED END SECTIONS SHALL BE PAID FOR IN THE UNIT COST OF THE MITERED END SECTION.
23. TEMPORARY BENCHMARKS HAVE BEEN ESTABLISHED ON THIS PROPERTY WHICH SHOULD BE USED BY THE CONTRACTOR DURING CONSTRUCTION. DESCRIPTIONS OF THE BENCHMARKS CAN BE FOUND IN THESE PLANS.
24. ALL UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES SHALL BE INSTALLED PRIOR TO CURB AND BASE CONSTRUCTION.
25. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED TESTING WITH THE SOILS ENGINEER. PAYMENT FOR TESTING WILL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
26. THE CONTRACTOR SHALL ADJUST ALL VALVE BOX AND MANHOLE CASTINGS TO MATCH FINAL SURFACE ELEVATIONS.
27. AS-BUILTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF THE AS-BUILT SURVEY INDICATES AN AREA OF INCOMPLETE OR UNACCEPTABLE WORK, THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THE NECESSARY REPAIRS, AS DIRECTED BY THE ENGINEER, OR OWNER. CONTRACTOR WILL BE REQUIRED TO PROVIDE UPDATED AS-BUILTS TO DEMONSTRATE COMPLIANCE WITH THE PLANS AND PERMITS. ALL FINAL AS-BUILT SURVEYS ARE REQUIRED TO BE CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL SURVEYOR.

UTILITY NOTES:

1. THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS/HER FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.
2. UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES.

KNOWN UTILITIES OWNERS INCLUDE:

WATER/SEWER  
 REGIONAL UTILITIES  
 4432 US HWY 98 E  
 SANTA ROSA BEACH, FL. PH: (850) 231-5114

ELECTRIC — GULF POWER  
 MR. TOM RICHARDSON  
 140 HOLLYWOOD BLVD SW  
 FORT WALTON BEACH, FL. PH: (850) 833-4881

NATURAL GAS — OKALOOSA GAS DISTRICT  
 MR. GLENN BAILEY  
 20 HUGHES ST NE  
 FORT WALTON BEACH, FL. PH: (850) 729-4700

CABLE — COX CABLE  
 320 RACETRACK ROAD NW  
 FORT WALTON BEACH, FL. PH: (850) 862-4142

TELEPHONE — CENTURYLINK  
 411 B MARY ESTHER CUT OFF  
 FORT WALTON BEACH, FL. PH: (850) 244-1150

SUNSHINE STATE ONE-CALL  
 605 WEST GARDEN STREET  
 ORLANDO, FL. 32809 PH: (800) 432-4770

3. CENTURYLINK WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM – 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORK.
4. ALL CABLE DAMAGE MUST BE REPORTED TO THE COX CABLE REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.
5. CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
6. UTILITIES ARE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF THE UTILITY OWNERS.

LAYOUT NOTES:

1. THE ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM (1988).
2. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK AND TAKE ALL NECESSARY STEPS TO PROVIDE FOR UTILITY PROTECTION.
3. REFERENCE BENCHMARKS EXISTS ON THIS PROPERTY AS SHOWN HEREON.
4. CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY REGARDING ANY APPARENT CONFLICTS IN THE PROPOSED IMPROVEMENTS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION.

STORMWATER SYSTEM MAINTENANCE:

1. CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER.
3. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
4. ALL EXPOSED CORNERS EDGES OF CONCRETE ARE TO BE CHAMFERED 3/4".
5. CONSTRUCTION OF THE ROADWAY AND DRAINAGE SYSTEMS SHALL CONFORM TO THE MOST RECENT FDOT ROAD AND BRIDGE MANUAL AND SUPPLEMENTS.

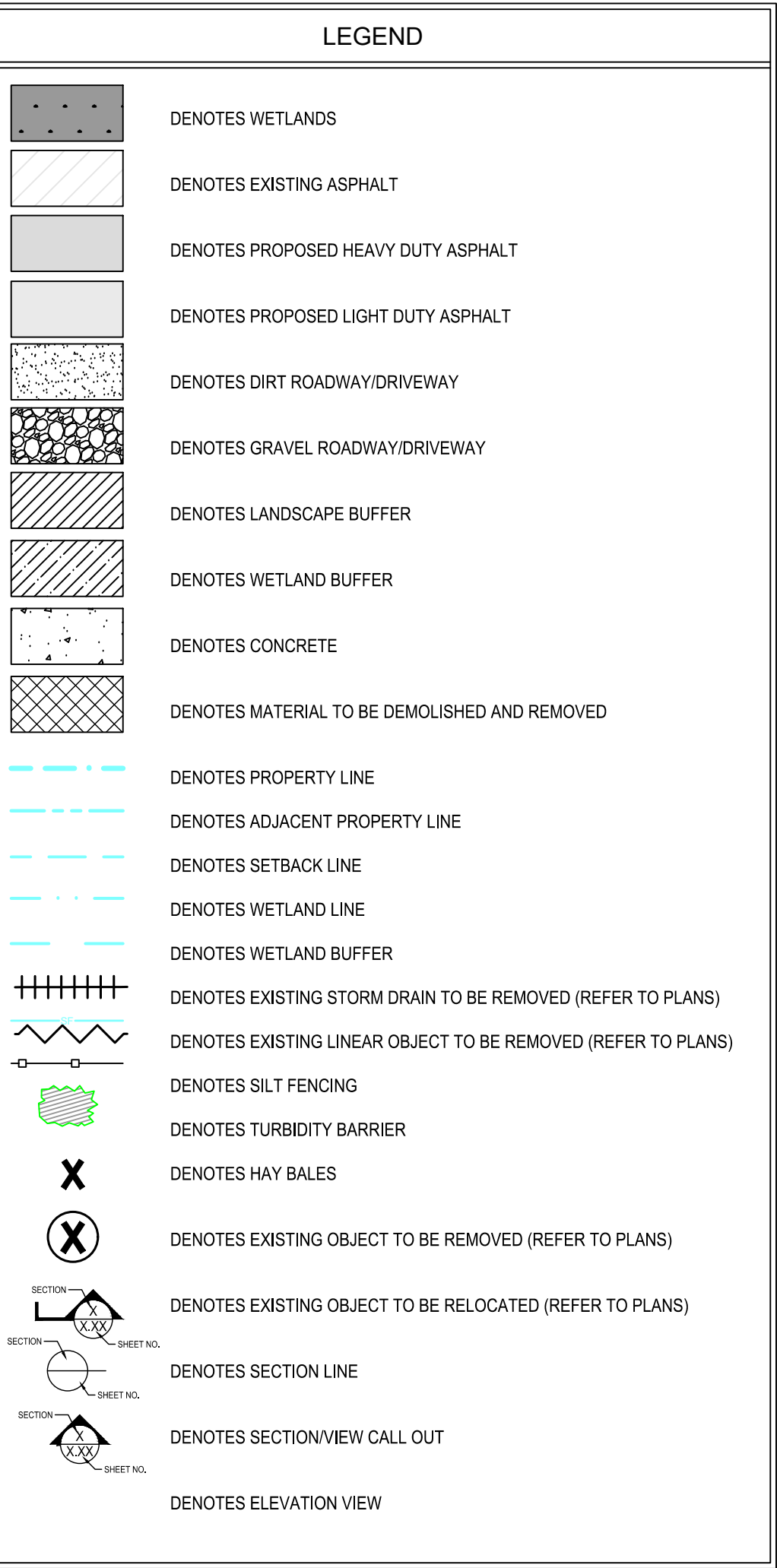
EROSION CONTROL NOTES:

1. EROSION PROTECTION: SOIL EROSION SEDIMENTATION MUST BE CONTROLLED AND RETAINED ON SITE DURING CONSTRUCTION. THEREFORE, EROSION PROTECTION, SUCH AS STAKED BALED HAY AND SILT FENCE BARRIERS, MUST BE INSTALLED PRIOR TO START OF CONSTRUCTION.
2. SILT FENCE BARRIER SHALL BE INSTALLED AS SHOWN ON PLANS, AND IN ALL AREAS SUBJECT TO SOIL EROSION SEDIMENTATION.
3. SOD ALL SLOPES 3:1 OR STEEPER.
4. CONTRACTOR SHALL RETAIN ALL SOIL EROSION SEDIMENTATION ON-SITE.
5. ALL DISTURBED AREAS NOT SPECIFICALLY SHOWN TO BE SODDED SHALL BE GRASSED AND MULCHED. THE GRASS SEED SHALL BE 20 PARTS BERMUUDA AND 80 PARTS PENSACOLA BAHIA. APPLICATION SHALL BE 100 POUNDS PER ACRE. IF CONSTRUCTION OCCURS DURING THE MONTHS OF OCTOBER THROUGH JANUARY, SEEDING SHALL BE 50 PARTS WINTER RYE AND 50 PARTS PENSACOLA BAHIA AT 100 POUNDS PER ACRE. SEEDED AREAS SHALL BE FERTILIZED WITH 8-8-8 NPK DRY FERTILIZER AT THE RATE OF 800 POUNDS PER ACRE.
6. ALL AREAS TO BE GRASSED AND MULCHED SHALL HAVE A MINIMUM OF ONE INCH OF TOPSOIL DISTRIBUTED PRIOR TO SEEDING.
7. FUNCTIONAL EROSION AND SILTATION CONTROLS SHALL BE INSTALLED AS NEEDED THROUGHOUT THE CLEARED AREAS AND AS SHOWN ON THE CONSTRUCTION PLANS IMMEDIATELY SUBSEQUENT TO ESTABLISHED ROUGH GRADE.
8. ALL EROSION CONTROL STRUCTURES SHALL BE IN PLACE BEFORE DEMOLITION BEGINS.
9. CONSTRUCT FILTER FENCES, HAY BALES AND TREE BARRICADES.
10. STRIP THE TOP SOIL AND STOCK PILE FOR USE IN LANDSCAPED AREAS.
11. INSTALL UTILITIES AND DRAINAGE PIPES PROTECTING INLETS WITH STAKED HAY BALES OR FILTER FENCE TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEMS. CONSTRUCT STORMWATER MANAGEMENT CONTROL STRUCTURES. (FILTRATION, RATE CONTROL, ETC.)
12. CONSTRUCT DRAINAGE, PARKING AND OTHER IMPROVEMENTS AS SHOWN ON THE PLANS; MAINTAIN SEDIMENTATION, EROSION AND TREE PROTECTION MEASURES.
13. FINAL GRADE THE SITE AND LANDSCAPE AS PER PLANS AND SPECIFICATIONS, STABILIZING ALL DISTURBED AREAS.
14. NO HEAVY EQUIPMENT IN NATURAL AREAS, ALL PLANTING TO BE DONE BY HAND.
15. ALL DISTURBED AREAS SHALL BE SATISFACTORILY STABILIZED. UNLESS OTHERWISE SPECIFIED, SOD SHALL BE PROVIDED IN THE FOLLOWING AREAS:
  - a. ALL SLOPES 3:1 AND STEEPER.
  - b. ENTIRE AREA BETWEEN SIDEWALKS AND BACK OF CURB.
  - c. INTERIOR SLOPES OF PONDS AND SWALES, AND IN A TWO-FOOT WIDE STRIP ALONG THE TOP OF BANK OF ALL PONDS AND SWALES.
  - d. IN A TWO-FEET WIDE STRIP ALONG ALL BUILDINGS, STRUCTURES, ROADS WHERE NO SIDEWALKS RUN PARALLEL, AND OUTER EDGES OF ALL SIDEWALKS. OTHER AREAS MAY BE SEEDED AND MULCH, UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL MAINTAIN GRASSED UNTIL PLANTS HAVE TAKEN ROOT AND THE AREA IS SATISFACTORILY STABILIZED.

CONSTRUCTION SEQUENCE:

1. CONTRACTOR WILL BE RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION CONFERENCE WITH THE WALTON COUNTY, UTILITY COMPANIES, ENGINEER AND ALL OTHER PARTIES REQUIRED FOR COMMENCEMENT OF PROJECT. THIS MEETING SHALL TAKE PLACE PRIOR TO COMMENCEMENT OF ANY PROJECT RELATED ACTIVITIES. AT THIS TIME PRIOR TO ANY CONSTRUCTION THE PERMIT MUST BE POSTED WITHOUT NAILING TO ANY TREE ON SITE.
2. THE CONTRACTOR SHALL ENSURE THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY TELEPHONE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. CONSTRUCTION SHALL NOT COMMENCE UNTIL INFORMATION (NAME AND PHONE NUMBER) OF CERTIFIED STORMWATER EROSION AND SEDIMENT CONTROL INSPECTOR HAS BEEN PROVIDED TO THE COUNTY AT THE PRE-CONSTRUCTION MEETING.
3. PRIOR TO CLEARING, A SILT FENCE BACKED WITH 4' HOG WIRE FENCE (TRENCHED 8 INCHES DEEP AND BACKFILLED ON THE UPHILL SIDE), SHALL BE INSTALLED AS SHOWN ON THE PLANS. SILT FENCE MUST NOT BE TRENCHED WITHIN THE CPZ OF ANY TREES TO BE PROTECTED. EROSION CONTROL SHOWN ON PLANS IS REQUIRED. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED DURING ANY PHASE OF THE DEVELOPMENT. AT THE DISCRETION OF THE CITY INSPECTOR, THE CITY INSPECTOR MAY REQUIRE ADDITIONAL MEASURES TO PREVENT ADDITIONAL EROSION. CONTRACTOR SHALL PROVIDE OUTLET PROTECTIONS FOR SEDIMENTS THAT MAY LEAVE THE SITE. CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING THE SITE AFTER CONSTRUCTION. CONTRACTOR CAN USE ADDITIONAL ALTERNATIVE TO PREVENT SEDIMENTS FROM LEAVING THE SITE. CONTRACTOR WILL BE RESPONSIBLE FOR ANY OFFSITE IMPACTS. DO NOT BEGIN CONSTRUCTION UNTIL EROSION CONTROL DEVICES HAVE BEEN INSPECTED AND APPROVED BY THE LOCAL PERMITTING AUTHORITY.
4. DURING THE CLEARING, GRUBBING AND SITE GRADING STAGES, AREAS THAT ARE DISTURBED MORE THAN 7 DAYS SHALL BE STABILIZED WITH RYE GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 POUNDS OF STRAW PER ACRE. ALL EXPOSED SLOPES THAT ARE EQUAL TO OR GREATER THAN 5%, AN EROSION BLANKET SHALL BE UTILIZED UNTIL THE AREA ACHIEVES FINAL STABILIZATION. TO LIMIT THE AMOUNT OF EROSION ON SITE CONTRACTOR SHALL CLEAR SITE AS NEEDED DURING CONSTRUCTION. CONTRACTOR SHALL USE CARE WHEN CUTTING GRADES FOR THE WALL AND SWALE. CONTRACTOR SHALL ALSO PREPARE DIVERSION BERMS AS NEEDED.
5. ALL SEDIMENT IS TO BE CAPTURED ON THE PROJECT SITE. ANY SEDIMENT ESCAPING THE PROJECT SITE WILL BE REQUIRED TO BE REMOVED AND RESTORED INCLUDING THE TRACKING OF SOIL ON STREETS.
6. CONSTRUCT UTILITIES AND OTHER IMPROVEMENTS IN ACCORDANCE WITH THE APPROVED DRAWINGS.
9. TEMPORARY SEEDING SHALL BE RYE GRASS APPLIED AT MANUFACTURER'S RECOMMENDATIONS TO ANY DISTURBED AREAS THAT ARE INACTIVE MORE THAN 7 DAYS. SOD SHALL BE USED TO STABILIZE THE STORMWATER DISCHARGE SWALE. FILTER FABRIC SHALL BE PLACED UNDER STORMWATER DISCHARGE SWALE OUTFALL. SOD STRIPS IN SWALES AND WATERWAYS SHALL BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW. SOD SHALL BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD.

10. DAILY SWEEPING WILL BE REQUIRED ON THE PROPERTY AND IMMEDIATELY AFTER STORM EVENTS TO PREVENT TRACKING OF SEDIMENT ONTO STREETS AND RIGHT-OF-WAY.
11. REMOVE ALL SEDIMENT/EROSION CONTROL DEVICES. REMOVE AND DISTRIBUTE ANY REMAINING SEDIMENT ONCE FULLY STABILIZED. ASSURE THAT DISTRIBUTED SEDIMENT WILL NOT BE REDISTRIBUTED. ANY EXCESS DIRT SHALL BE DISPOSED OF IN A MANNER OFF SITE THAT WILL NOT CAUSE ANY EROSION OR SEDIMENT ISSUES. CONTRACTOR WILL ALSO INSPECT STRUCTURES FOR SEDIMENT. ANY SEDIMENT SHALL BE FLOUSH FROM THE CONVEYANCE SYSTEM.
12. CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
13. EACH CONTRACTOR SHALL CARRY ON HIS WORK AND ADHERE TO THE PROGRESS SCHEDULE DURING ALL DISPUTES OR DISAGREEMENTS WITH THE OWNER. NO WORK SHALL BE DELAYED OR POSTPONED PENDING RESOLUTION OF ANY DISPUTES OR DISAGREEMENTS.
14. KEEP EXISTING PAVEMENT AS SHOWN, AND SAW CUT WHERE NEEDED FOR DRAINAGE PIPE CROSSINGS.
15. TWO WEEKS PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL HAVE A WALK THROUGH WITH THE ENGINEER, AND OWNER AND A PUNCH LIST SHALL BE PREPARED. ONCE ALL PUNCH LIST ITEMS ARE ADDRESSED TO SATISFY THE ENVIRONMENTAL PERMIT, THE CONTRACTOR SHALL ALSO SCHEDULE A WALK THROUGH WITH THE OWNER, ARCHITECT, ENGINEER AND COUNTY UPON COMPLETION.
16. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH MINIMUM OF SIX (6) COPIES OF A SIGNED AND SEALED AS-BUILT SURVEY TO VERIFY THE INSTALLATION OF ALL INFRASTRUCTURE, STORMWATER CONVEYANCES, AND LANDSCAPE IMPROVEMENTS ACCORDING TO COUNTY ENVIRONMENTAL PERMITS.





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# SITE DATA SUMMARY

PARCEL ID: 27-5N-19-21000-001-0040  
 FUTURE LAND USE: COMMERCIAL  
 ZONING: GENERAL COMMERCIAL  
 SITE AREA: ±7.5 ACRES  
 BUILDING USE: FIRE STATION (MAX NO. OF EMPLOYEES=7)

PARKING REQUIRED: 1 SPACE / EMPLOYEE = 7  
 PARKING PROVIDED: 18 SPACES (INCLUDING 1 HANDICAP)

BUILDING SETBACKS:		
	REQUIRED	PROVIDED
FRONT	25'	126'
SIDE	10'	144'
REAR	20'	322'

IMPERVIOUS SURFACE PROPOSED: 41,698 SF / 0.96 AC  
 ASPHALT / CONCRETE = 33,578 SF  
 BUILDING = 8,120 SF

MAX FAR ALLOWED: 0.5 (50%)  
 MAX FAR PROVIDED: 8,120 / 329,313.6 = 0.02 (2%)

MAX ISR ALLOWED: 0.6 (60%)  
 MAX ISR PROVIDED: 41,698 / 329,313.6 = 0.13 (13%)

MAX BUILDING HEIGHT ALLOWED = 50-FT  
 MAX BUILDING HEIGHT PROPOSED = TBD (NO GREATER THAN 50-FT)



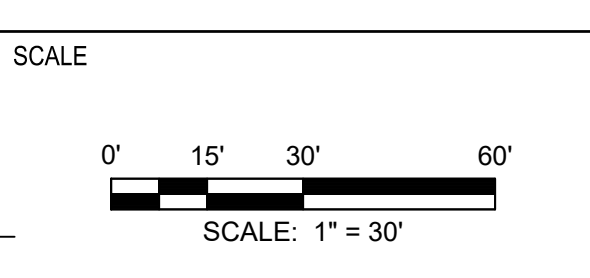
877 CR 393 North  
 Santa Rosa Beach, FL 32459  
 850.267.0759

GLENDALE FIRE STATION  
 BOARD OF COUNTY COMMISSIONERS  
 WALTON COUNTY  
 FLORIDA

SEAL

RUDOLPH A. MALL, P.E. 94479  
 EB 0008794

FOR BID



REVISIONS

NO.	DESCRIPTION	DATE

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CHECKED BY	RAM
DATE	JANUARY 2024

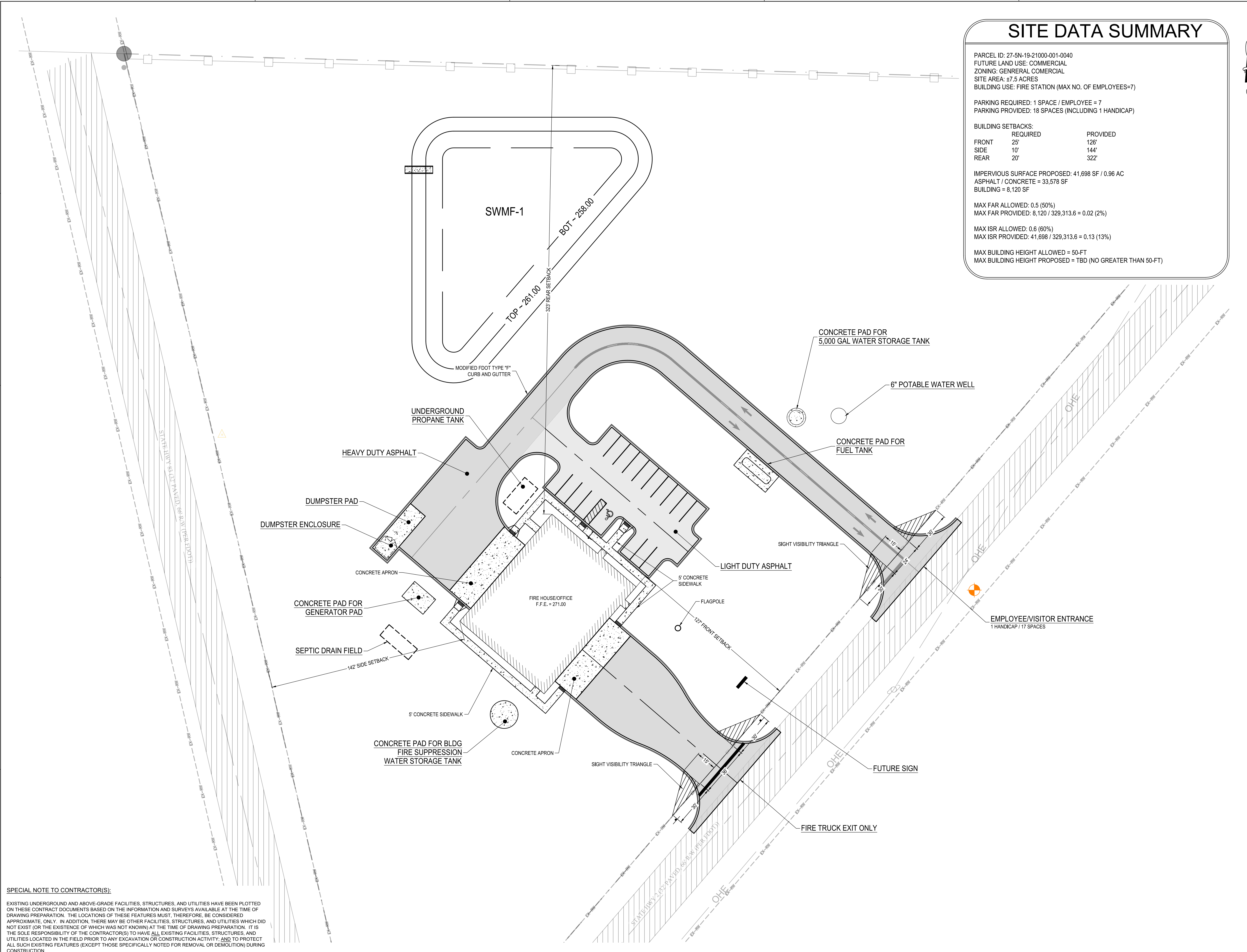
TITLE

## MASTER DEVELOPMENT PLAN

PROJECT NO. 50150622

# C2.1

SHEET NO.



**SPECIAL NOTE TO CONTRACTOR(S):**  
 EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE. ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DO NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY; AND TO PROTECT ALL SUCH EXISTING FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

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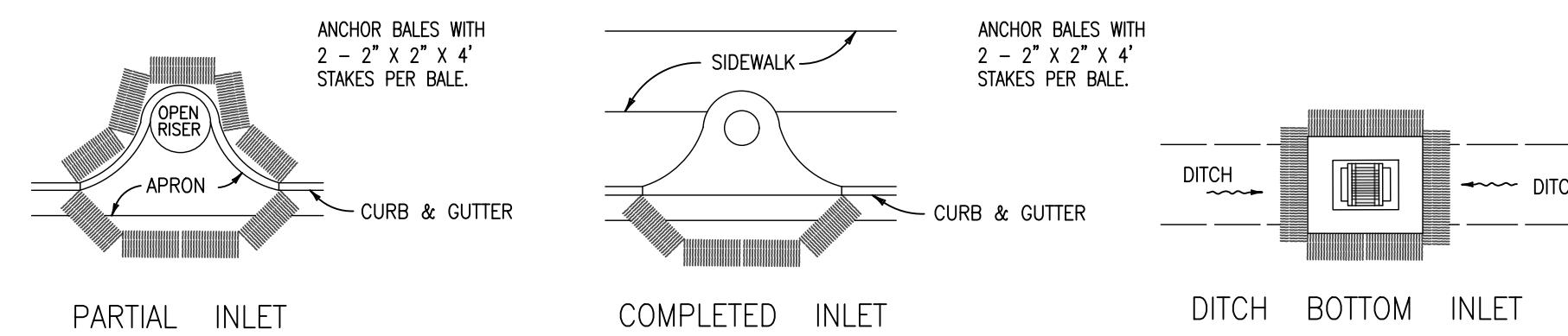
STORMWATER POLLUTION PREVENTION PLAN:

1. SITE DESCRIPTION: VACANT/WODDED
  - A. CONSTRUCTION ACTIVITY: CONSTRUCTION OF FIRE STATION, DRIVEWAYS AND UTILITIES
  - B. MAJOR SOIL DISTURBING ACTIVITIES: SITE CLEARING AND GRADING
- C. TOTAL PROJECT AREA: 4.95 ACRES  
TOTAL SOIL AREA TO BE DISTURBED: 3.10 ACRES
- D. RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION:  
DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: N/A  
ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL: N/A
- C. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS: N/A
- E. NAME OF RECEIVING WATERS: N/A  
WETLAND AREA: NO DISTURBANCE TO WETLANDS ARE ANTICIPATED
2. CONTROLS:
 

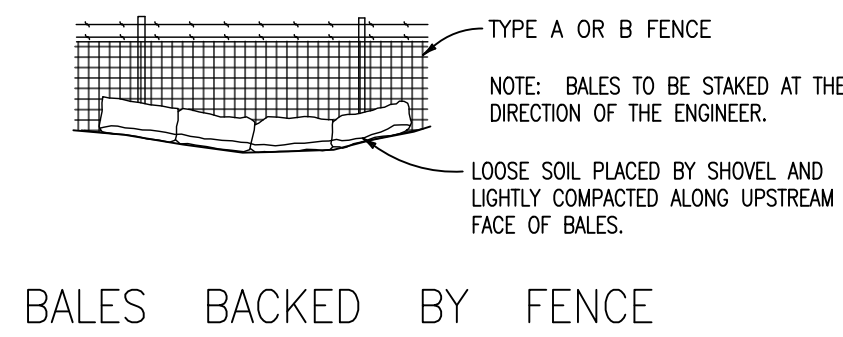
NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS  
THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. HAY BALES AND SILT FENCE WILL BE USED LATERALLY AT SPECIFIED INTERVALS. HAY BALES SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS.
- 2A. EROSION AND SEDIMENT CONTROLS:
  - (1) STABILIZATION PRACTICES:
    - TEMPORARY SODDING
    - TEMPORARY GRASSING
    - X PERMANENT PLANTING, SODDING, OR SEEDING
    - TEMPORARY MULCHING
    - ARTIFICIAL COVERING
    - X BUFFER ZONES
    - X PRESERVATION OF NATURAL RESOURCES
  - 2B. STRUCTURAL PRACTICES:
    - SAND BAGGING
    - X SILT FENCES
    - X HAY BALES
    - X BERMS
    - DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
    - PIPE SLOPE DRAINS
    - FLUMES
    - ROCK BEDDING AT CONSTRUCTION EXIT
    - TIMBER BEDDING AT CONSTRUCTION EXIT
    - DITCH LINER
  - 2C. DESCRIPTION OF STORMWATER MANAGEMENT:
    - SEDIMENT TRAPS
    - SEDIMENT BASINS
    - STORM INLET SEDIMENT TRAP (ROCK BAGS)
    - STONE OUTLET STRUCTURES
    - CURBS AND GUTTERS
    - STORM SEWERS
    - VELOCITY CONTROL DEVICES
    - TURBIDITY BARRIER
    - X RIP RAP
  - 2D. OTHER CONTROLS:
    - (1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
    - (2) OFFSITE VEHICLE TRACKING:
      - HAIL ROADS DAMPENED FOR DUST CONTROL
      - X LOADED HAIL TRUCKS TO BE COVERED WITH TARPULIN
      - X EXCESS DIRT ON ROAD REMOVED DAILY
      - X STABILIZED CONSTRUCTION ENTRANCE
    - (3) SANITARY WASTE: N/A
    - (4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
    - (5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): NO NON-STORMWATER DISCHARGES ARE ANTICIPATED.
- 2E. APPROVED STATE, LOCAL PLANS, OR STORMWATER PERMITS: WALTON COUNTY DEVELOPMENT ORDER No. MIN23-000048
3. MAINTENANCE:
 

ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.
4. INSPECTION:
 

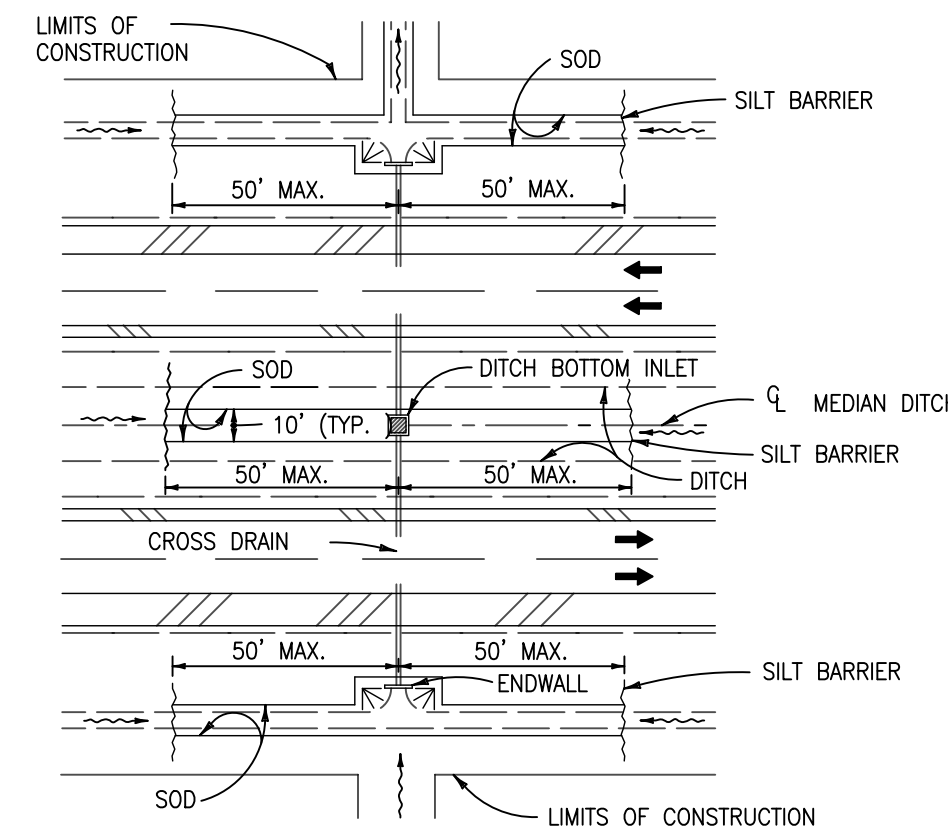
ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER 0.25" OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS.
- A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
- B. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
- C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE CITY AT 850-233-5100 PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.



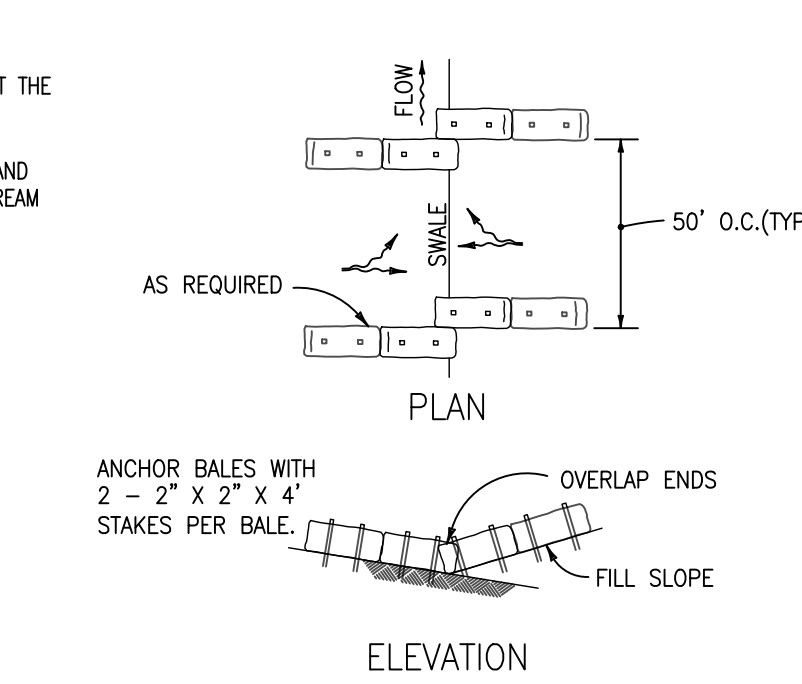
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



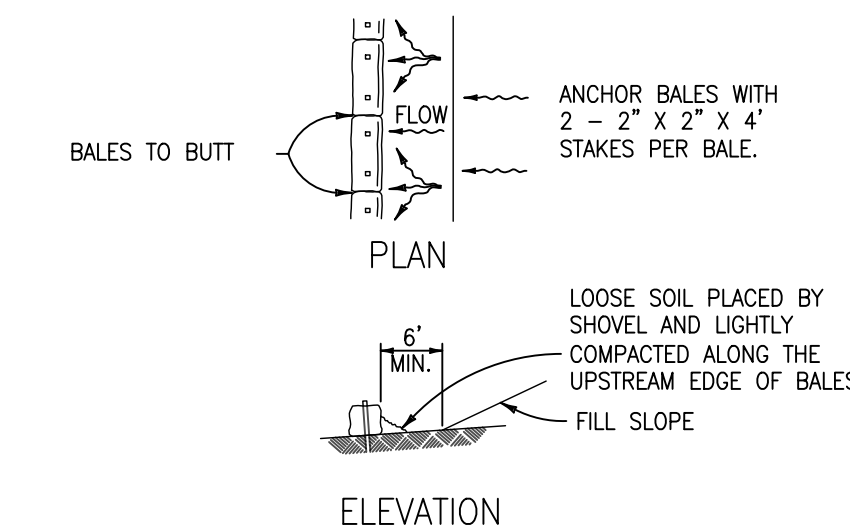
BALES BACKED BY FENCE



DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

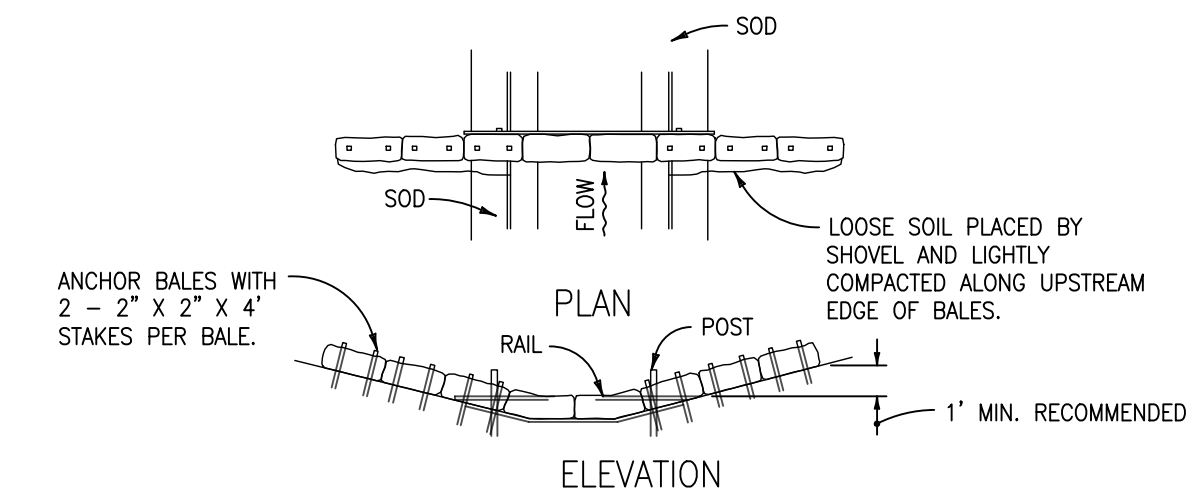


TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



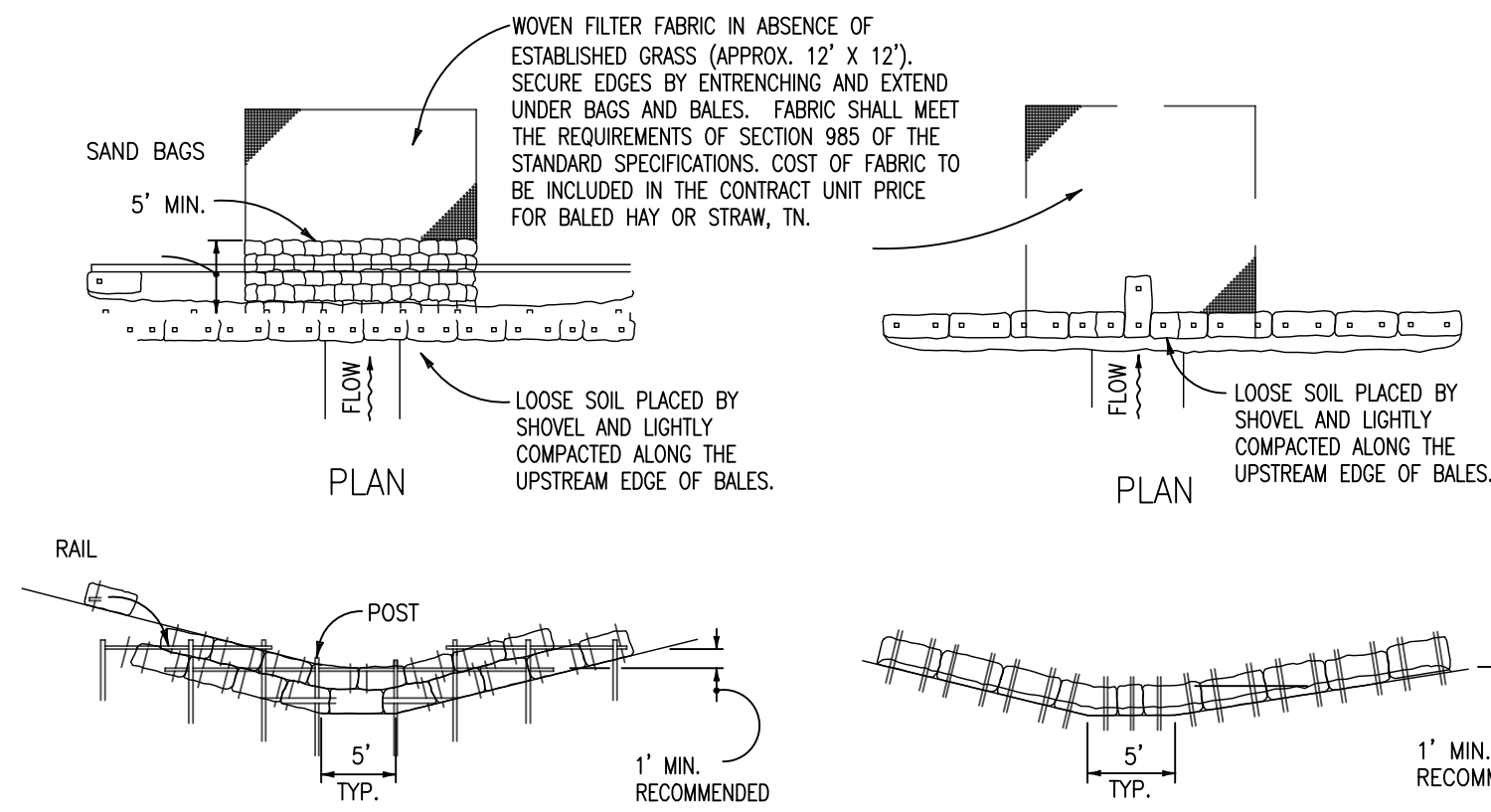
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES



SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH THE CHART BELOW

BARRIER FOR PAVED DITCH



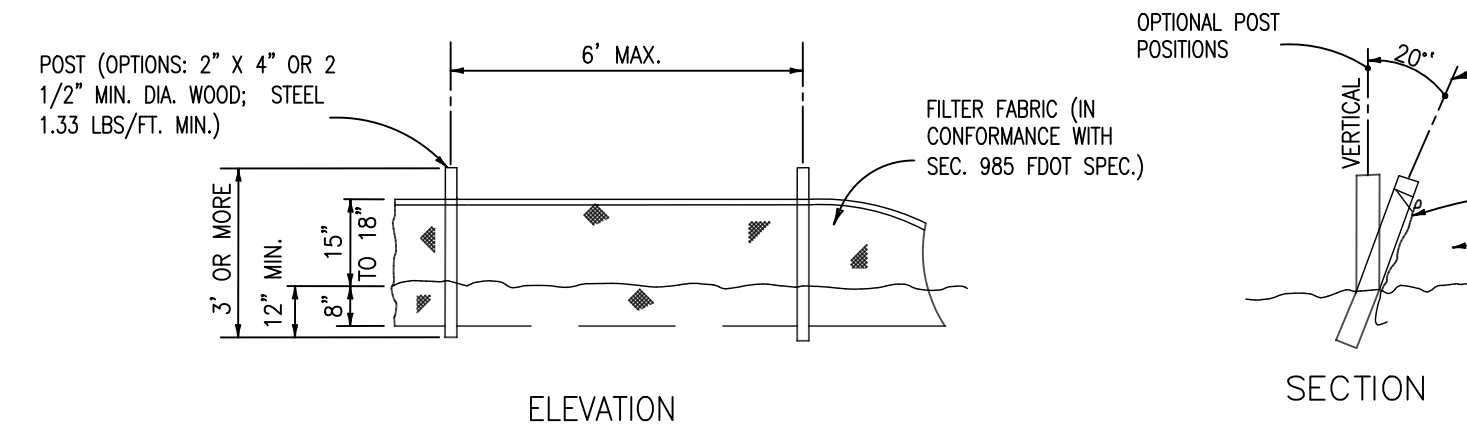
ELEVATION

APPLICATION AND SPACING: THE USE OF TYPES I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITIONS OUTLINED IN THE CHART BELOW.

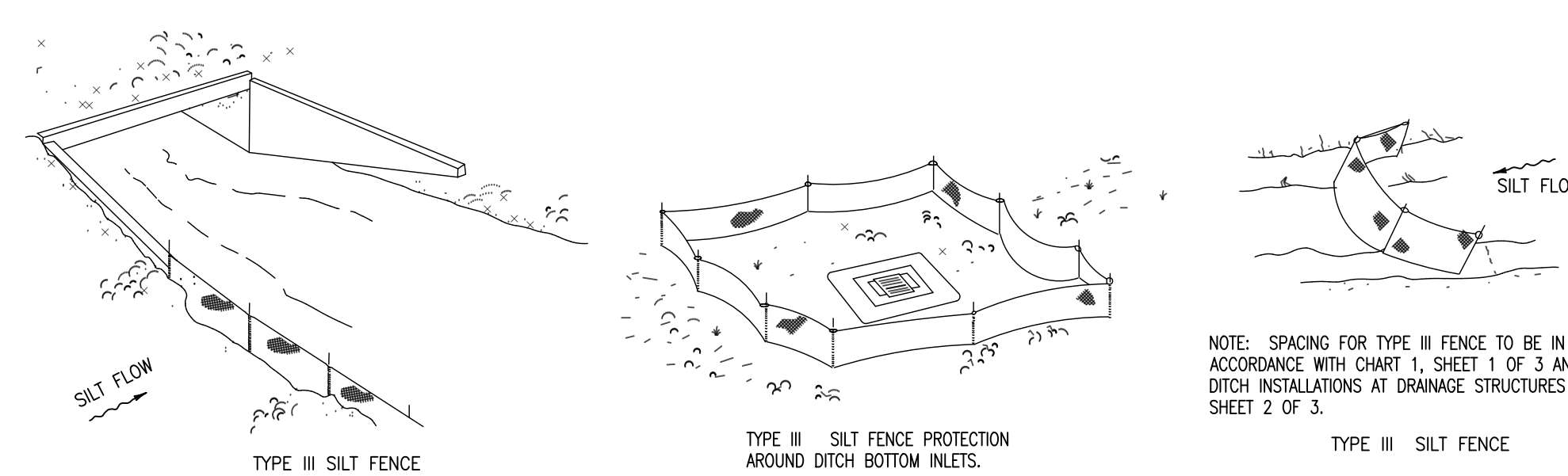
TYPE II

TYPE I

BARRIER FOR UNPAVED DITCHES



TYPE III SILT FENCE



DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

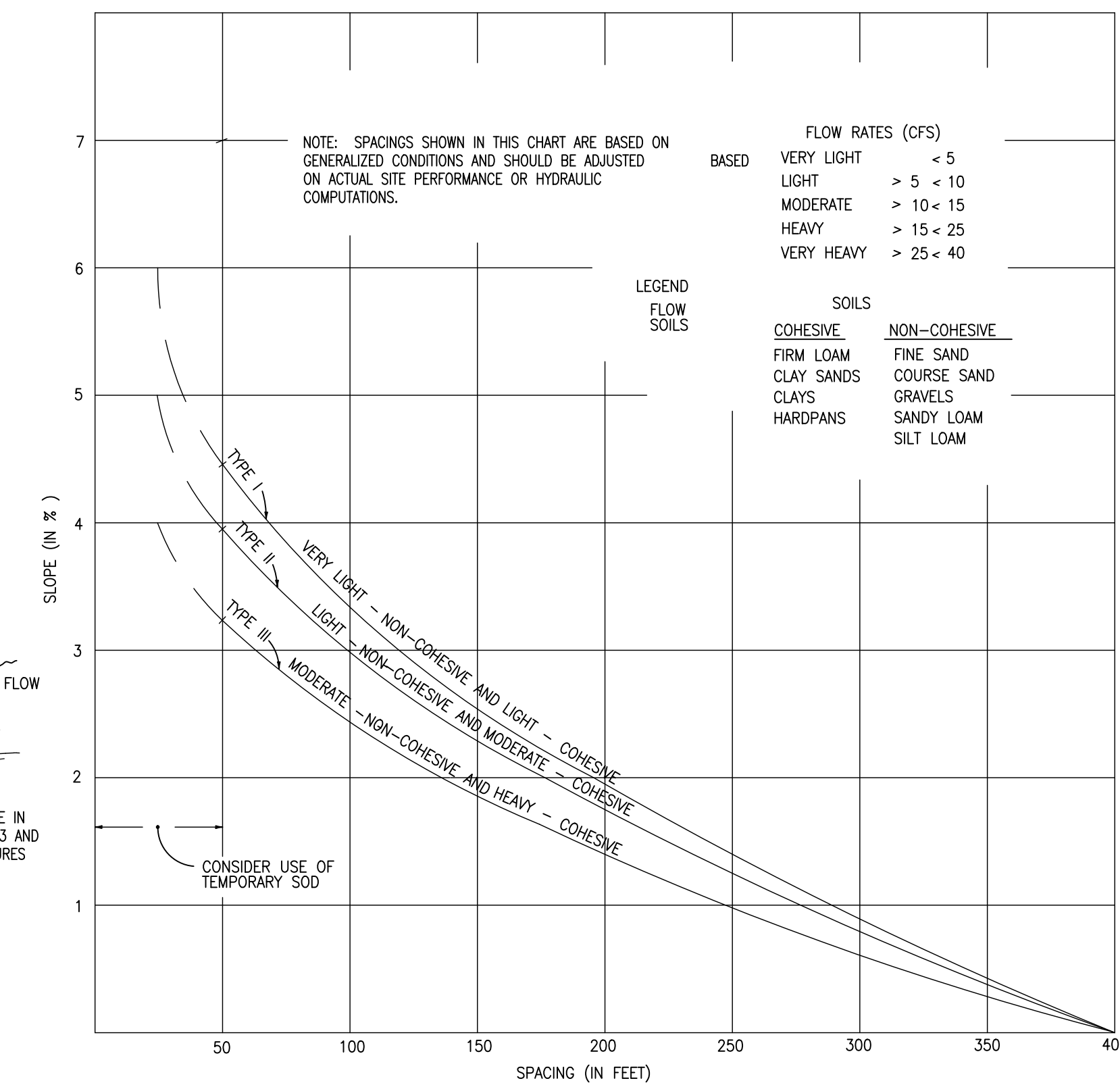


CHART I

RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

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EB 0008794

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 CHECKED BY \_\_\_\_\_ RAM  
 DATE \_\_\_\_\_ JANUARY 2024

TITLE

STORMWATER  
POLLUTION  
PREVENTION AND  
PROTECTION PLAN

PROJECT NO. 50150622

C3.3

SHEET NO.











REVISIONS

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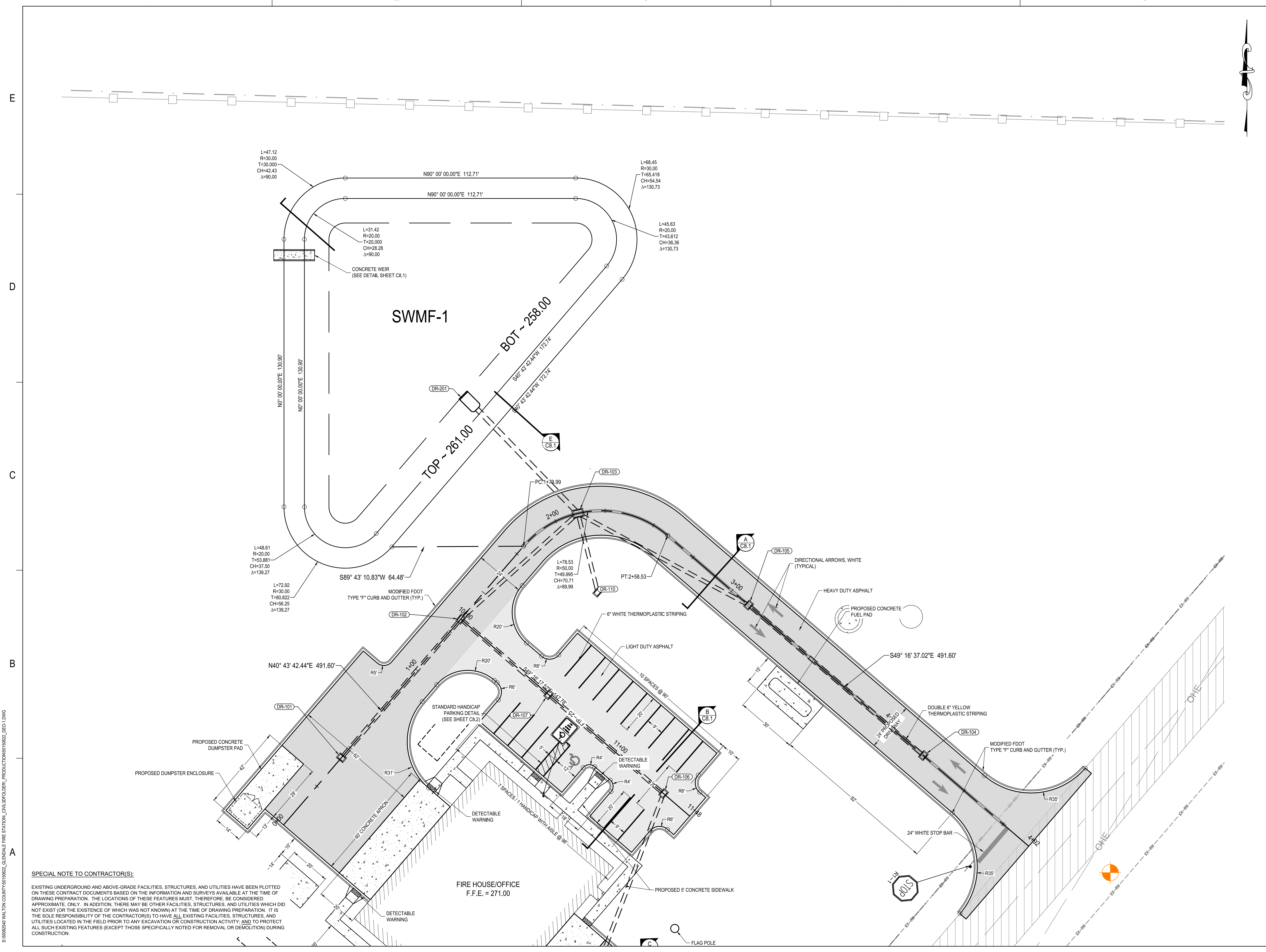
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APPROVED BY	BTW
CHECKED BY	RAM
DATE	JANUARY 2024

TITLE  
**SITE GEOMETRY PLAN**

PROJECT NO. 50150622

**C4.3**

SHEET NO.



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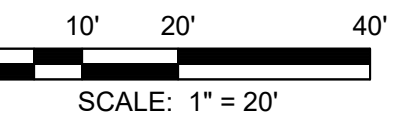


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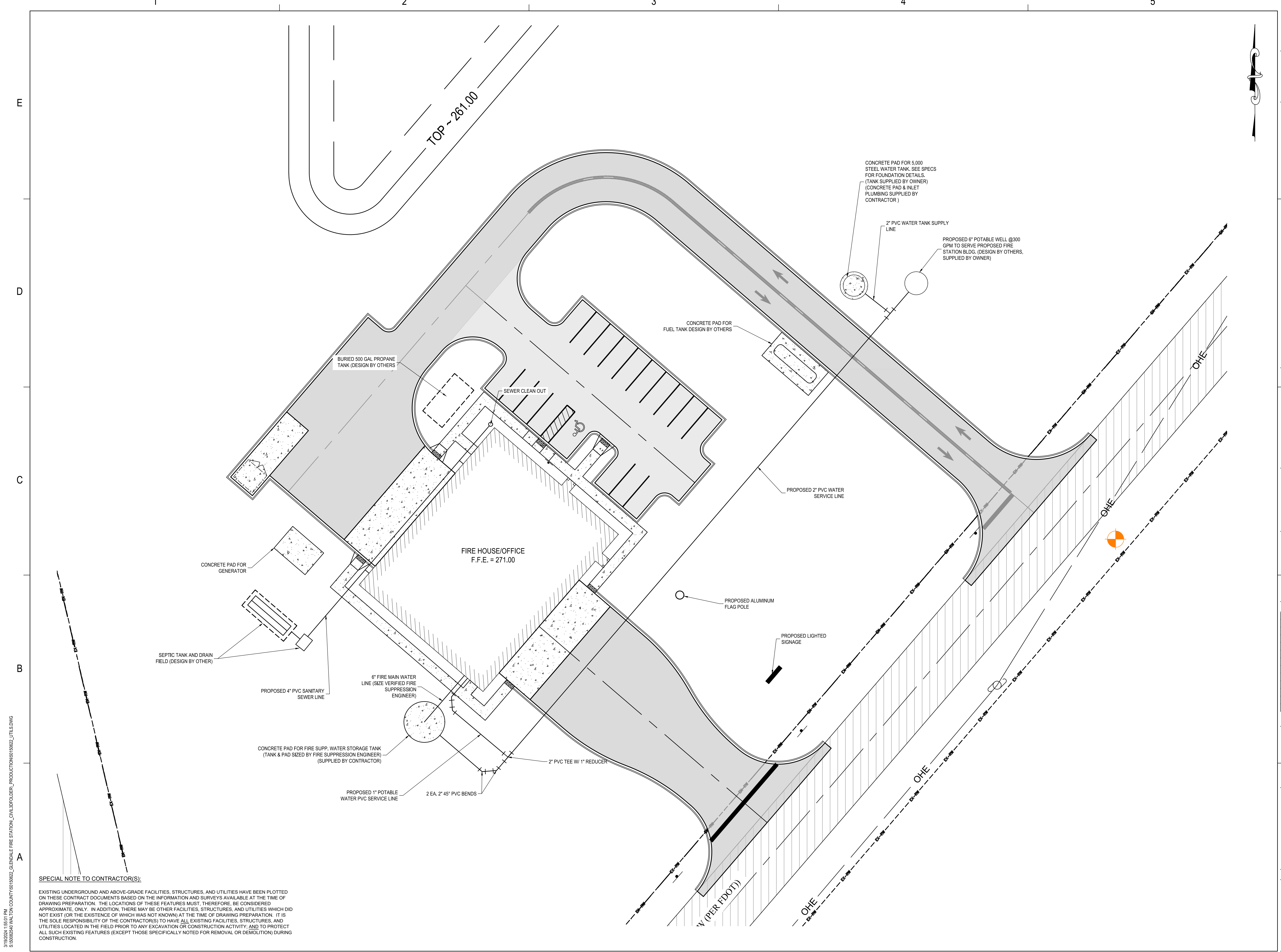
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DATE	JANUARY 2024	

TITLE  
**UTILITY PLAN**

PROJECT NO. 50150622

**C5.1**

SHEET NO.



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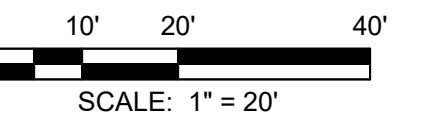


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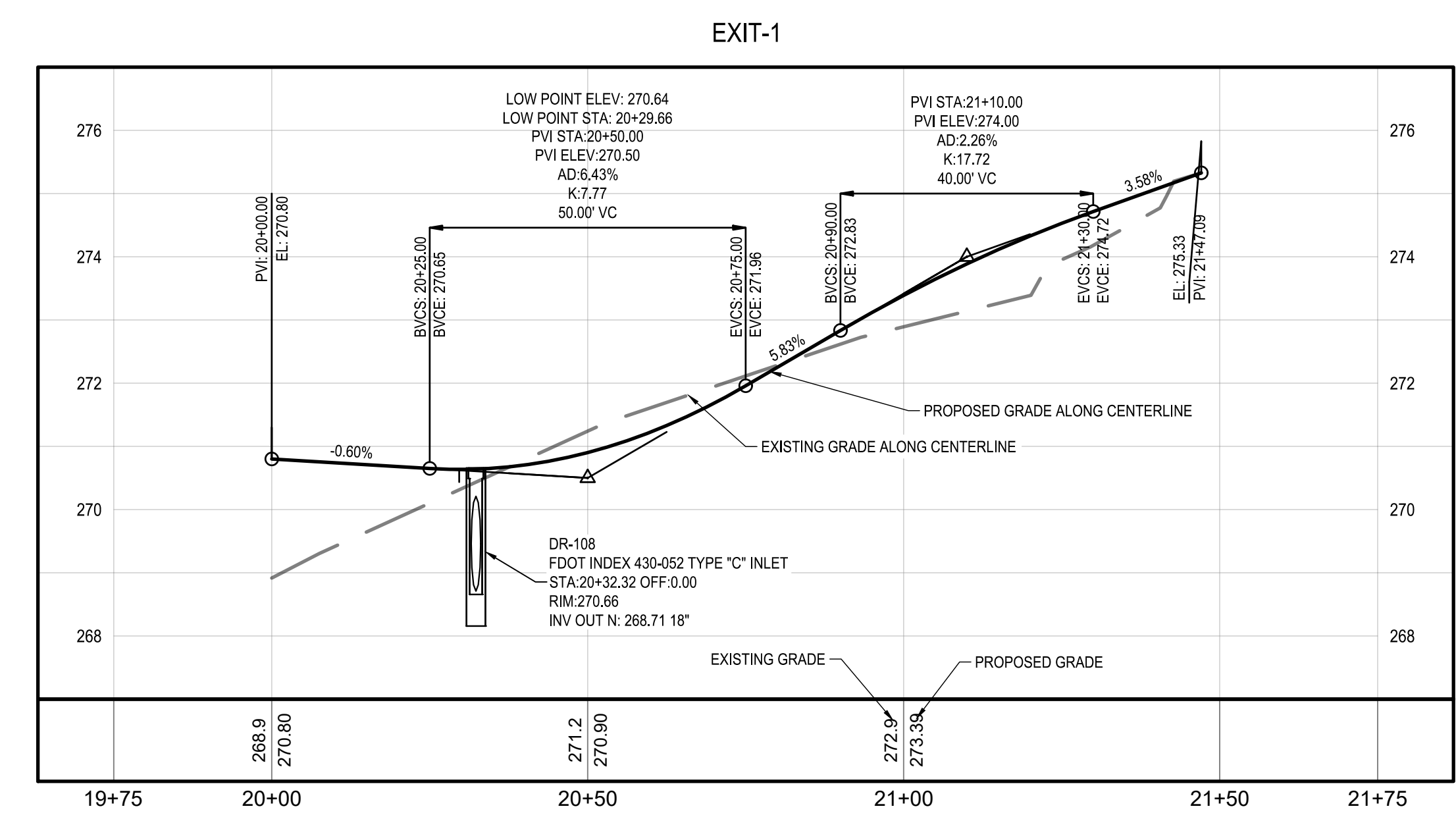
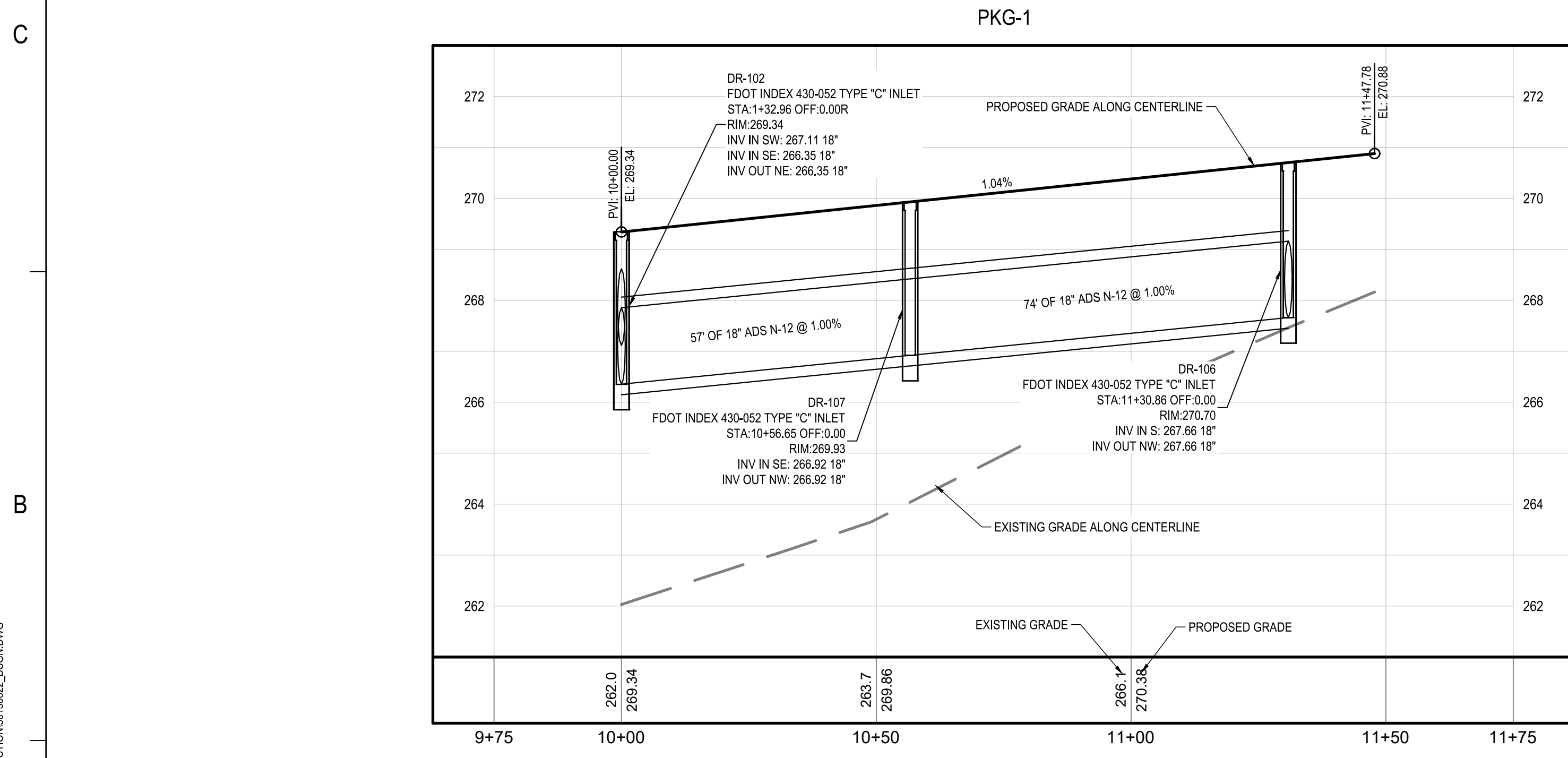
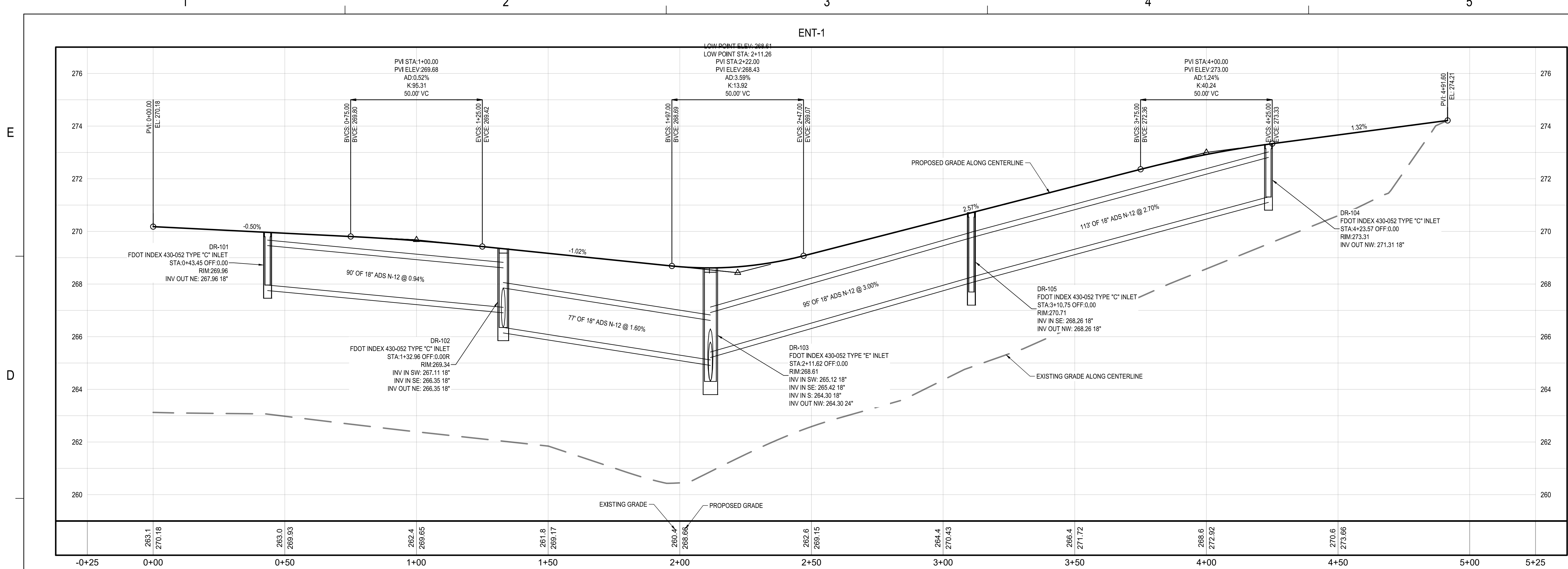
TITLE

**ROADWAY PROFILES**

PROJECT NO. \_\_\_\_\_ 50150622

**C6.1**

SHEET NO.



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2/26/2024 11:32:39 AM S:\00085401\WALTON COUNTY\50150622\_GLENDALE FIRE STATION\_CIVIL\FOLDER\_PRODUCT\0150622\_DWG.DWG



NOTE:  
ALL ROOF DRAINS AND DOWNSPOUTS WILL BE DIRECTED TO NEAREST STORMWATER INLET AND THEN DIRECTED TO THE STORMWATER MANAGEMENT FACILITY (SWMF).



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850.267.0759

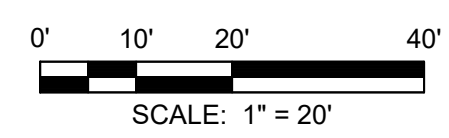
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DATE	JANUARY 2024

TITLE

PAVING AND  
DRAINAGE

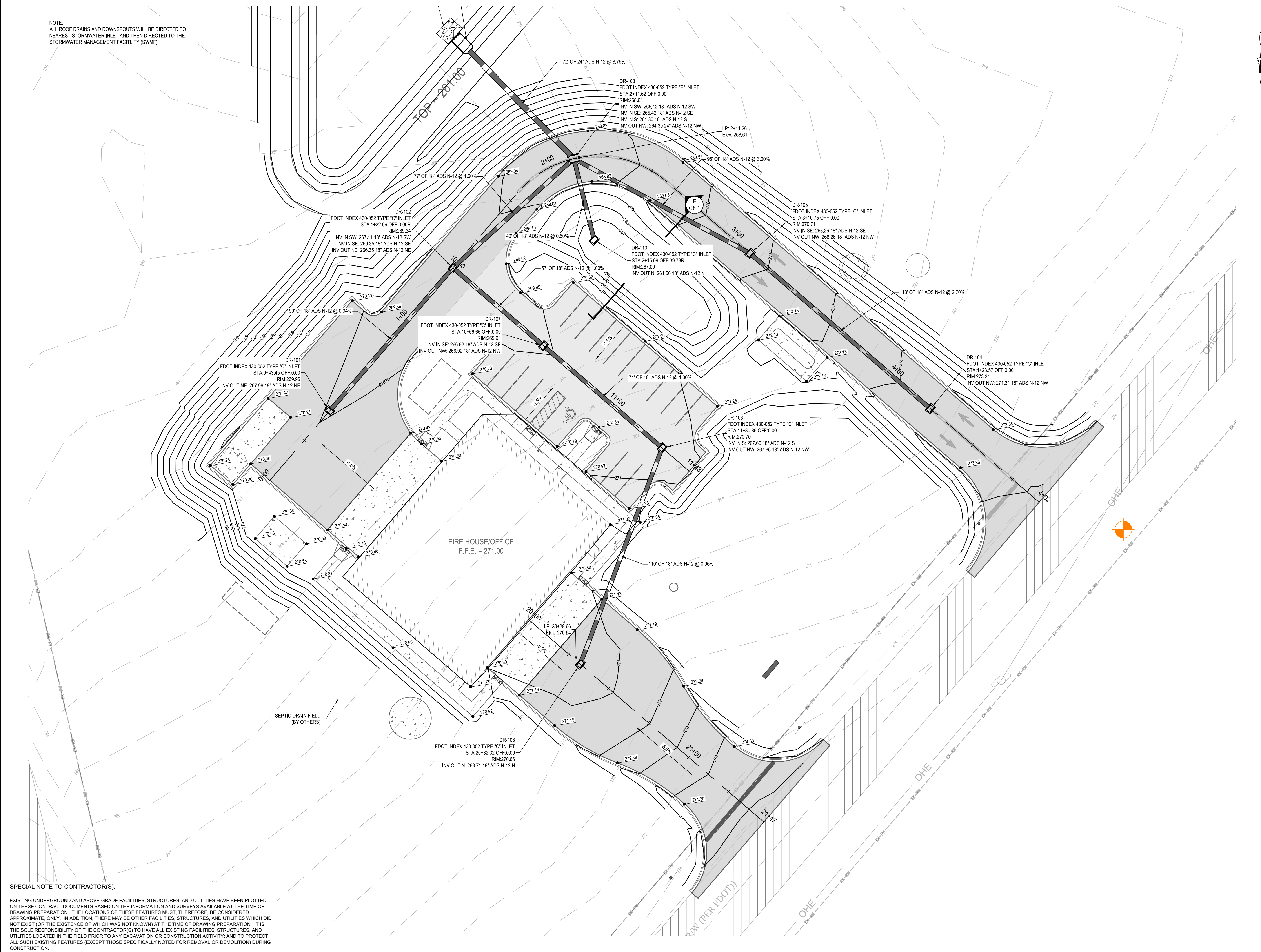
PROJECT NO. 50150622

C7.1

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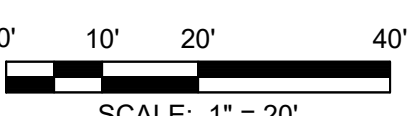
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BOARD OF COUNTY COMMISSIONERS  
WALTON COUNTY  
FLORIDA

SEAL

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FOR BID

SCALE



REVISIONS

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DATE	JANUARY 2024

TITLE

PAVING AND  
DRAINAGE

PROJECT NO. 50150622

C7.2

SHEET NO.

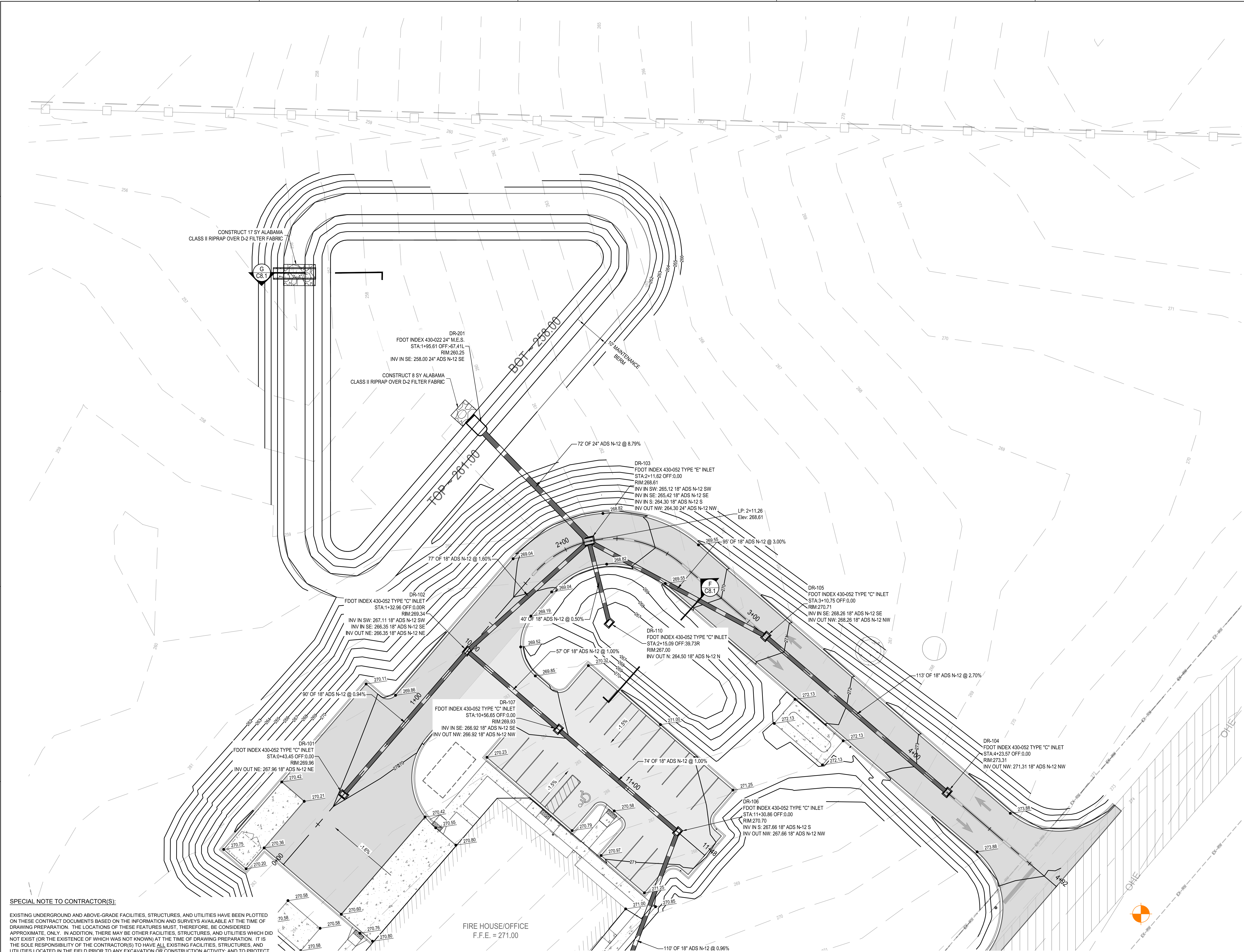
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FIRE HOUSE/OFFICE  
F.F.E. = 271.00

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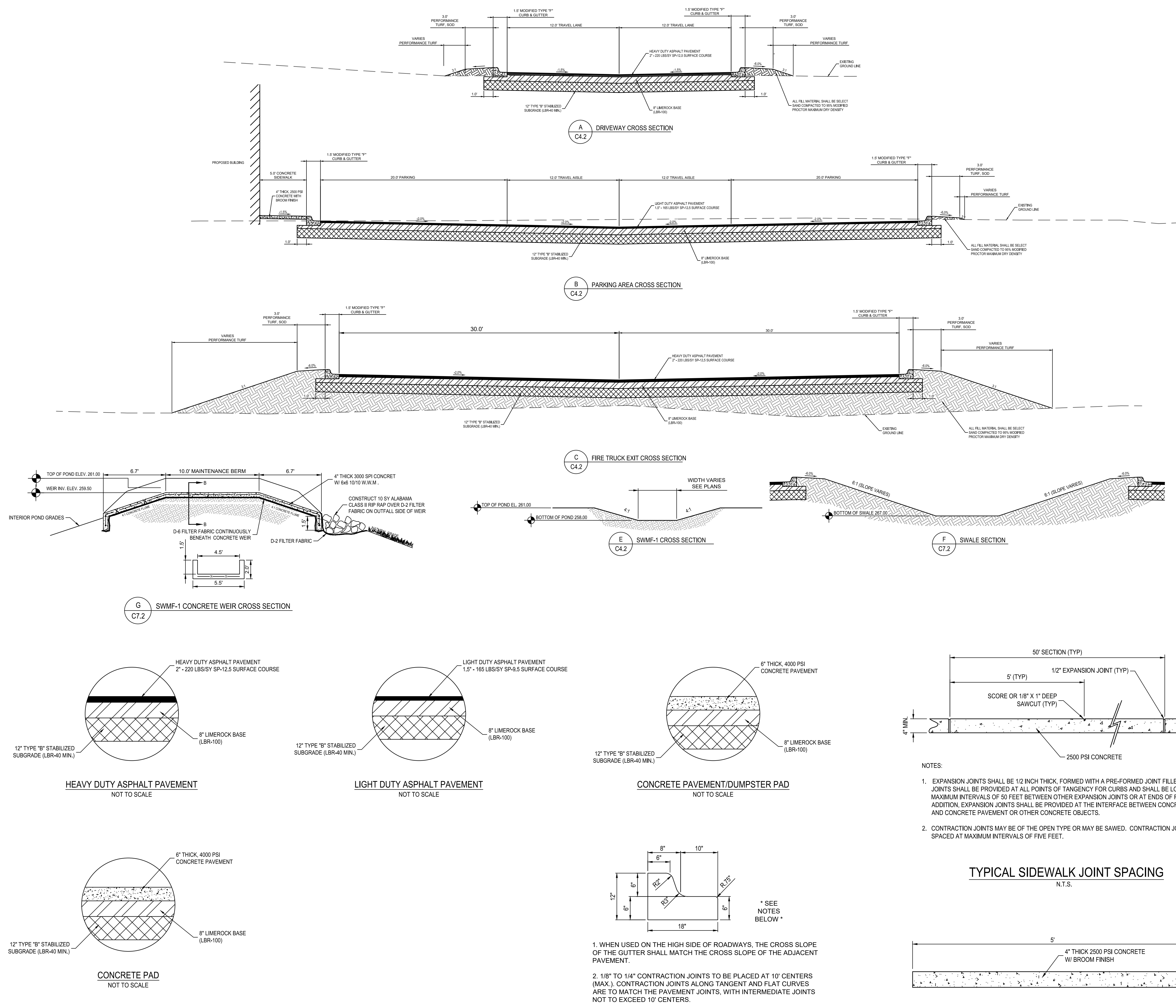
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DATE \_\_\_\_\_ JANUARY 2024

TITLE  
**CONSTRUCTION  
DETAILS**

PROJECT NO. \_\_\_\_\_ 50150622

**C8.1**

SHEET NO.



2/10/2024 8:42:10 AM S:\00085401\WALTON COUNTY\50150622\_GLENDALE FIRE STATION\_CIVIL\FOLDER\_PRODUCT\00150622\_DET.DWG







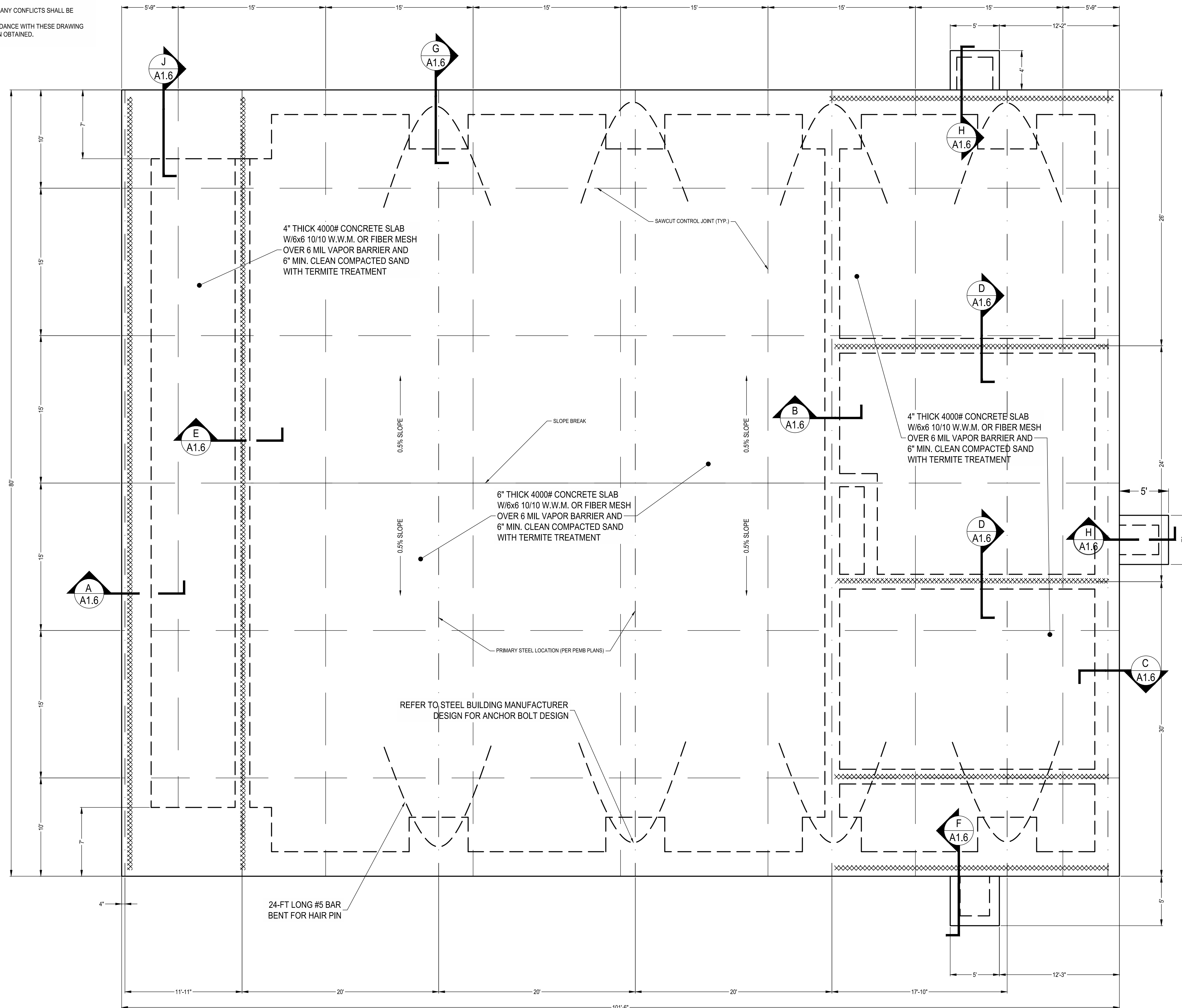








- FOUNDATION CONSTRUCTION NOTES:
1. CONTRACTOR SHALL SELECT METAL BUILDING AND SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.
  2. FOUNDATION DESIGN WILL BE VERIFIED AFTER SUBMISSION OF REACTIONS FROM METAL BUILDING SUPPLIER.
  3. METAL BUILDING SHALL BE DESIGNED TO WITHSTAND 140 MPH 2 SECOND GUST.
  4. FOUNDATION DESIGN BASED UPON SOIL WITH 1500 PSF BEARING CAPACITY WITH NO ORGANICS OR EXPANSIVE CLAYS.
  5. CONCRETE 4000 PSI 28 DAY STRENGTH STEEL GRADE 40 OR 60.
  6. ALL FILL SHALL BE COMPACTED TO 95% OF MAX. DRY DENSITY MODIFIED PROCTOR.
  7. ALL LAP SPLICES IN FOOTING STEEL SHALL BE LAPPED A MIN. 24 BAR DIAMETERS.
  8. EXTERIOR GRADE BEAMS SHALL RUN CONTINUOUS AROUND PERIMETER OF STRUCTURE TO ASSURE CONTINUITY.
  9. REINFORCEMENT STEEL SHALL BE PLACED A MIN. OF 3" FROM CONCRETE SURFACE THROUGHOUT.
  10. ALL CONCRETE SLABS SHALL HAVE CONTROL JOINTS TO CONTROL CRACKING SPACED 5 FEET IN ALL DIRECTIONS - SEE PLAN.
  11. SOILS SHALL BE CHEMICALLY TREATED FOR TERMITES.
  12. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE CODES IN THE EVENT OF CONFLICT BETWEEN PLANS AND CODES THE CODES SHALL GOVERN.
  13. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS BEFORE CONSTRUCTION. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
  14. THE OWNER IS RESPONSIBLE FOR THE SUPERVISION AND COMPLETION OF THE PROJECT IN ACCORDANCE WITH THESE DRAWING AND ALL APPLICABLE PERMITS. NO WORK SHALL BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN OBTAINED.
  15. ALL CMU SHALL BE N-12 SPLIT FACE BLOCK WITH 3000 PSI PUMP MIX FILLED CELLS



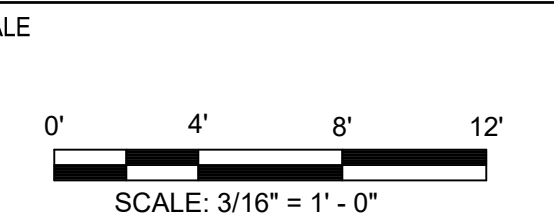
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GLENDALE FIRE STATION  
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CLIFFORD L. KNAUER, P.E. 53930  
 EB 0008794

FOR BID



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY \_\_\_\_\_ BTW  
 APPROVED BY \_\_\_\_\_ BTW  
 CHECKED BY \_\_\_\_\_ RAM  
 DATE \_\_\_\_\_ JANUARY 2024

TITLE  
**FOUNDATION PLAN**

PROJECT NO. \_\_\_\_\_ 50150622

**A1.2**

SHEET NO.

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- APPLICABLE CODES:
1. FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB) 2017 EDITION
  2. FLORIDA BUILDING CODE, BUILDING (FBC-B) 2017 EDITION
  3. FLORIDA BUILDING CODE, MECHANICAL (FBC-M) 2017 EDITION
  4. FLORIDA BUILDING CODE, FUEL GAS (FBC-FG) 2017 EDITION
  5. FLORIDA BUILDING CODE, PLUMBING (FBC-P) 2017 EDITION
  6. FLORIDA FIRE PREVENTION CODE, (FFPC) 2017 EDITION
  7. NATIONAL ELECTRICAL CODE (NEC) 2017 EDITION

OCCUPANCY CLASSIFICATION: R-2  
 TYPE OF CONSTRUCTION: TYPE III  
 BUILDING AREA SQ. FT. 101.5x80' - 8120 GROSS

SHALLOW FOUNDATIONS:

1. FOOTING SIZES AND REINFORCING ARE BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF. ALL FOOTINGS SHALL BEAR ON COMPACTED FILL OR NATURAL SOIL PREPARED PER THE GEOTECHNICAL REPORT BY MAGNUM ENGINEERING SIGNED AND SEALED DATED JANUARY 29, 2019.

2. SUBGRADE PREPARATION SHALL BE FIELD CONTROLLED AND TESTED BY A LICENSED SOILS ENGINEER IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. AT COMPLETION, THAT ENGINEER SHALL PREPARE AND SUBMIT TO THE OWNER, ARCHITECT, CONTRACTOR, AND STRUCTURAL ENGINEER A SIGNED AND SEALED LETTER INDICATING THAT THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT HAVE BEEN FOLLOWED.

3. TOP OF ALL FOOTINGS IS NOTED ON THE DRAWINGS.

CHEMICAL ADHESIVE FOR ANCHORING REINFORCING BOLTS, THREADED BARS & ANCHOR BOLTS:

1. USE AN EPOXY, ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS THE POWERS RAIN POWER-FAST SYSTEM, HILTI HIT HY150, ITW RAMSEY/RED HEAD EPON AT OR CG INJECTION SYSTEM, ALLIED FASTENER ALLIED GOLD A-1000, OR ACCEPTED EQUIVALENT. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.

2. CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A 1/4" Ø PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

3. DRILL 1/16" LARGER Ø HOLE THAN ANCHOR BOLT AND 1/8" LARGER HOLE THAN REINFORCING BAR. THOROUGHLY CLEAN HOLE INCLUDING REMOVAL OF DUST PRIOR TO FILLING WITH EPOXY.

4. PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.

NOTE:

FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.

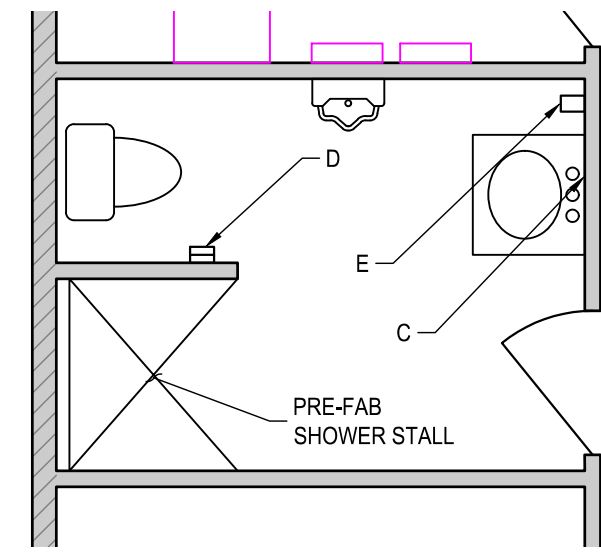
WIND LOAD DESIGN CRITERIA

GOVERNING CODE - ASCE 7-10  
 BUILDING TYPE - ENCLOSED  
 BUILDING CATEGORY - IV  
 EXPOSURE CATEGORY - B  
 BASIC WIND SPEED - V = 160 MPH  
 MEAN ROOF HEIGHT - 25'-8"  
 $K_z/K_{zt}/K_d = 0.70 / 1.00 / 0.85$   
 INTERNAL PRESSURE COEFFICIENT - GCPI ±0.18

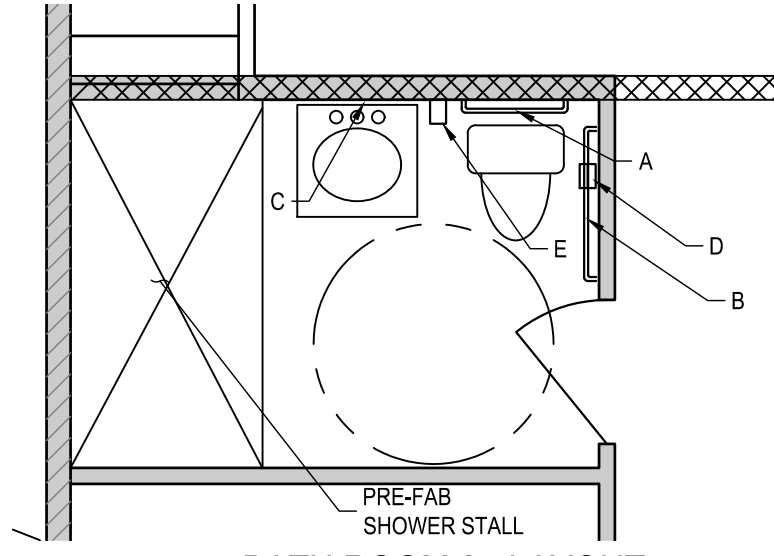
HEADER SCHEDULE	HEADER NO.	WALL TYPE	BEARING LENGTH	BEAM CONSTRUCTION OR STEEL REINFORCEMENT	STUD PACK
H-1		WOOD	6" MIN.	2 EA. 2x10' W. 1/2" PLWD.	4 MIN.

RESTROOM ACCESSORY SCHEDULE

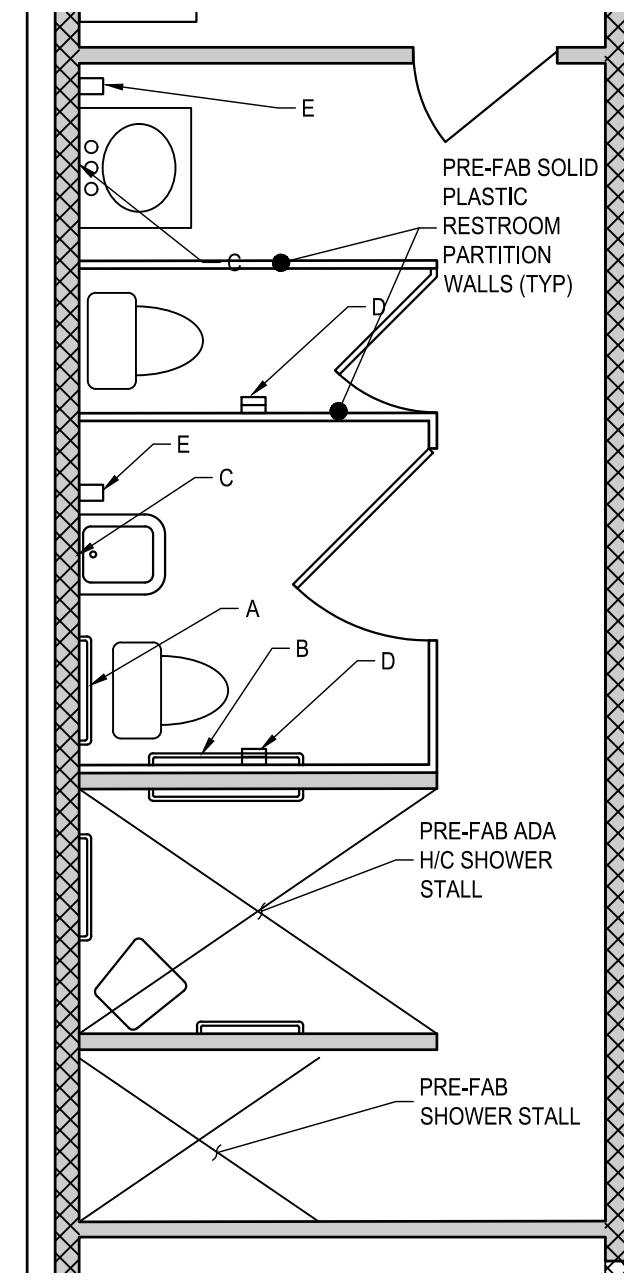
ID	DESCRIPTION	MANUFACTURER	MOUNTING HEIGHT	MATERIAL DESCRIPTION
A	38" L, 1-1/2" DIAMETER GRAB BAR	BOBRICK	33" TO TOP	TYPE 304, 18 GA. SS. SATIN FINISH W/ 3-1/4" DIAM. FLANGE, 3/8" DEEP, 22 GA W/ CONCEALED ANCHOR PLATE
B	42" L, 1-1/2" DIAMETER GRAB BAR	BOBRICK	33" TO TOP	TYPE 304, 18 GA. SS. SATIN FINISH W/ 3-1/4" DIAM. FLANGE, 3/8" DEEP, 22 GA W/ CONCEALED ANCHOR PLATE
C	SURFACE MOUNTED MIRROR 18"Wx30"H	BRADLEY	1/2" ABOVE SINK BACKSPLASH	FRAMED W/ 1 PIECE, ROLLED-FORMED SS W/ 3/8" FACE AND MITERED END CORNERS. DOUBLE STRENGTH CONTINUOUS INTEGRAL STIFFENER ALL SIDES.
D	WALL MOUNTED TOILET PAPER DISPENSER	SCOTT	19" TO BOT	DURABLE PLASTIC BODY W/ SMOKED TRANSPARENT COVER, DISPENSES (2) FULL 9.38" DIAMETER ROLLS.
E	SURFACE MOUNTED SOAP DISPENSER	N/A	N/A	N/A



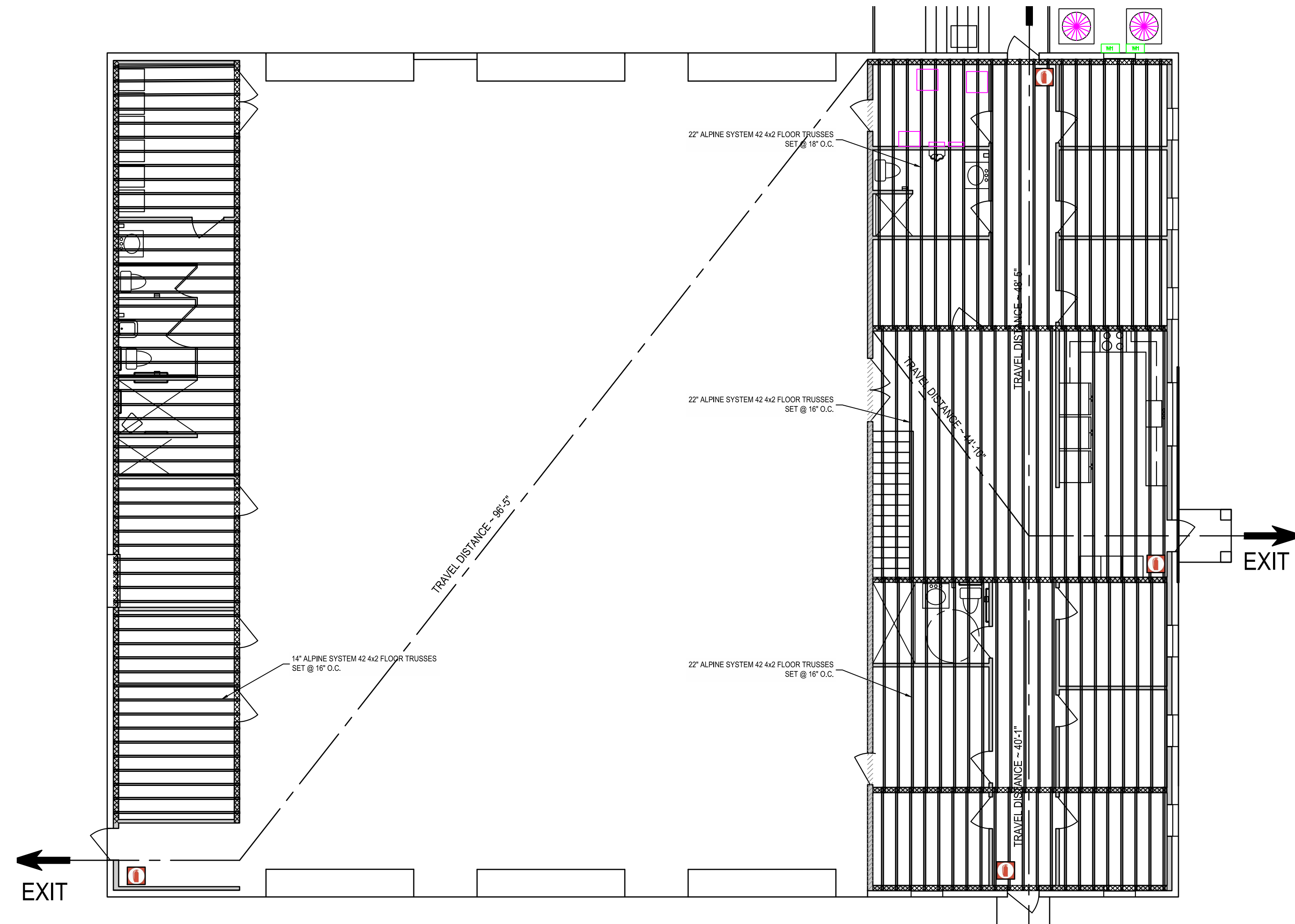
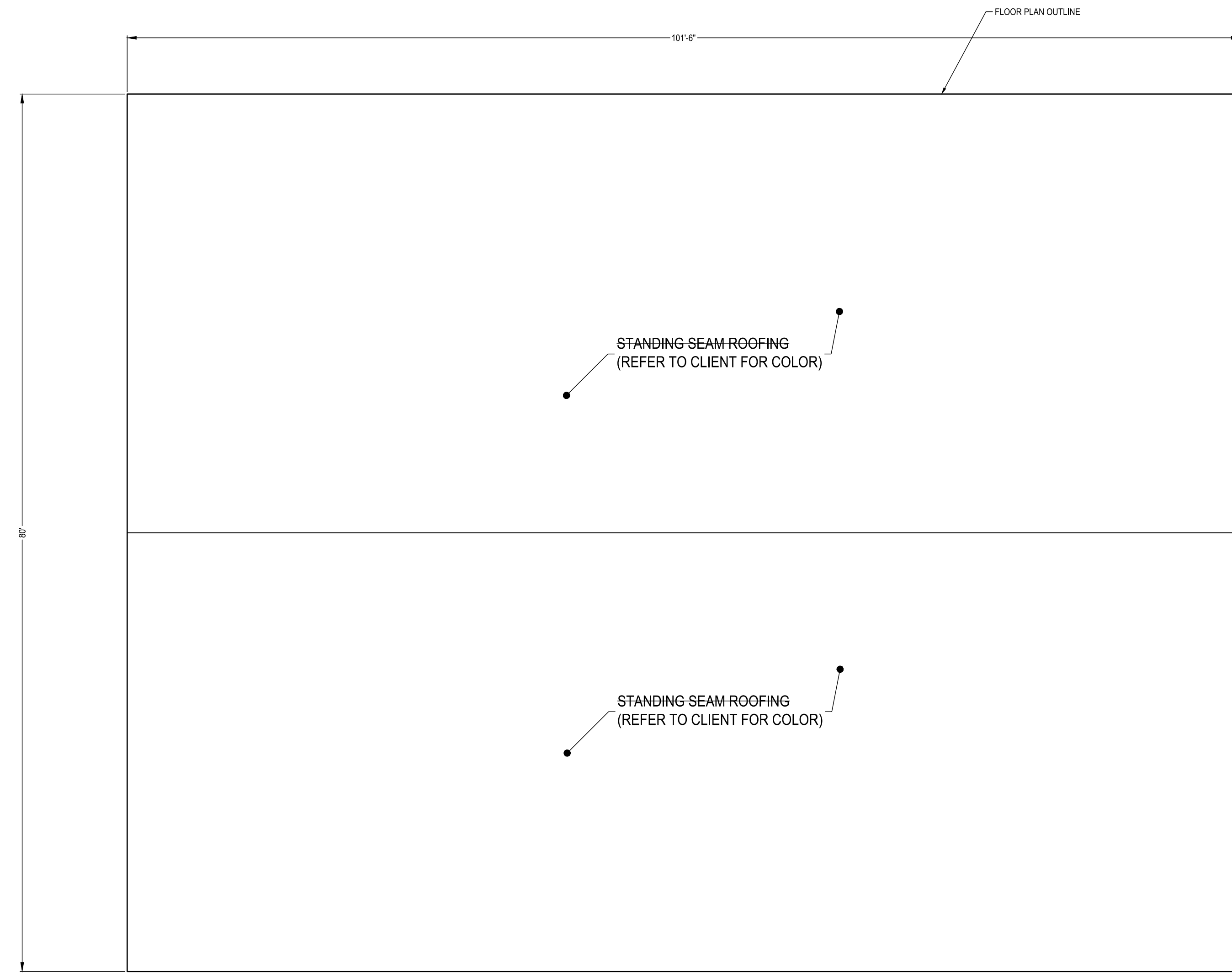
BATH ROOM 1 - LAYOUT



BATH ROOM 2 - LAYOUT



BATH ROOM 3 - LAYOUT



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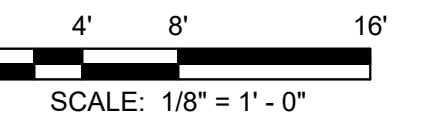
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 DATE \_\_\_\_\_ JANUARY 2024

TITLE

ROOF AND TRUSS  
 PLAN

PROJECT NO. \_\_\_\_\_ 50150622

A1.3

SHEET NO.

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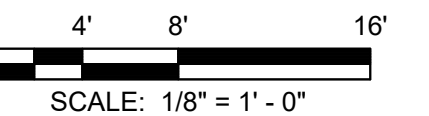


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TITLE

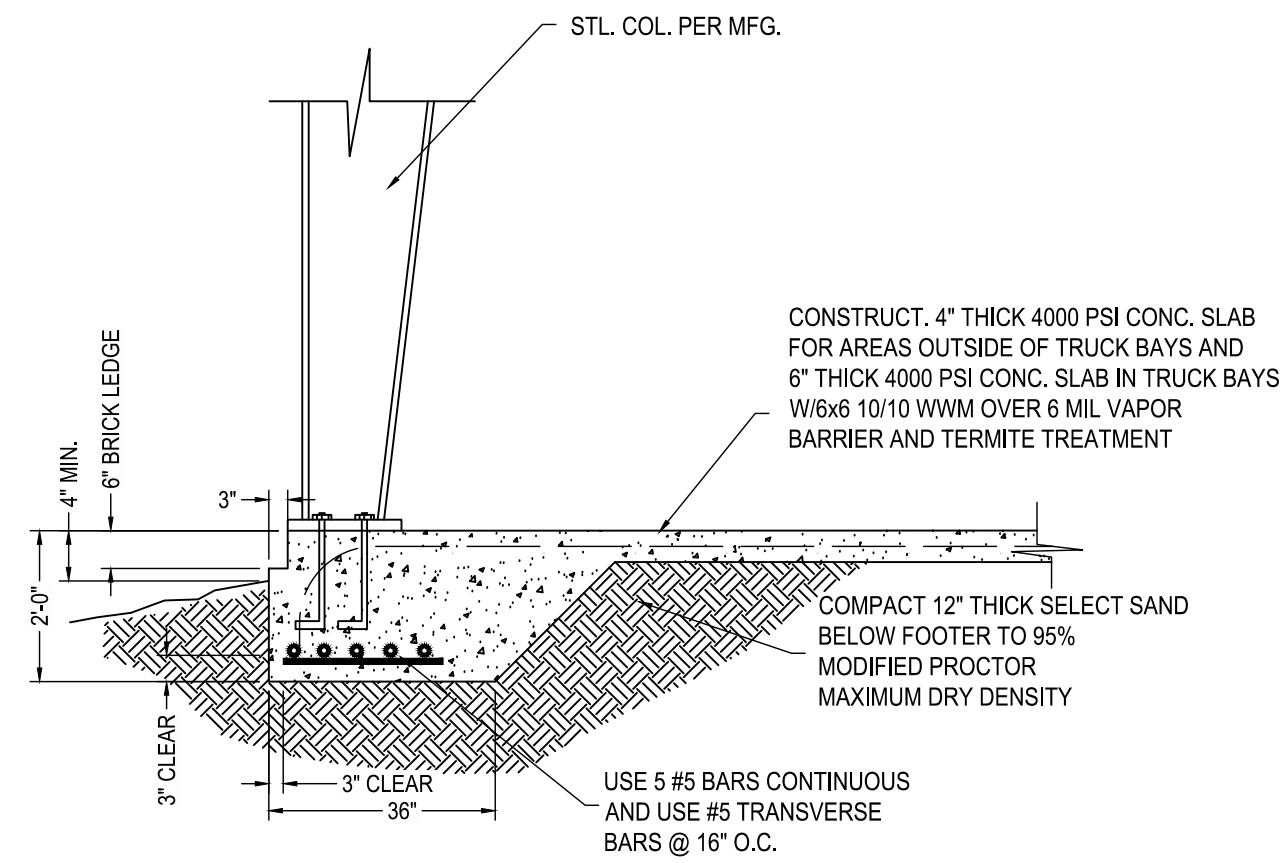
**FOUNDATION  
DETAILS**

PROJECT NO. \_\_\_\_\_ 50150622

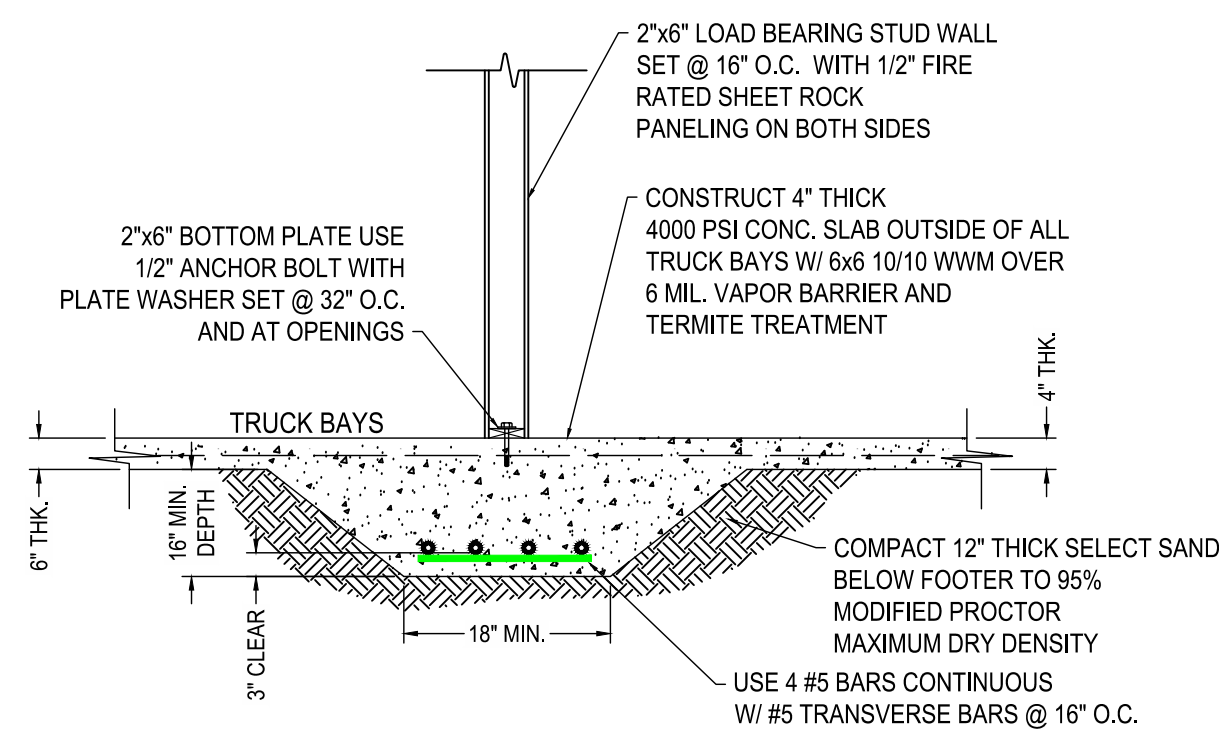
**A1.6**

SHEET NO.

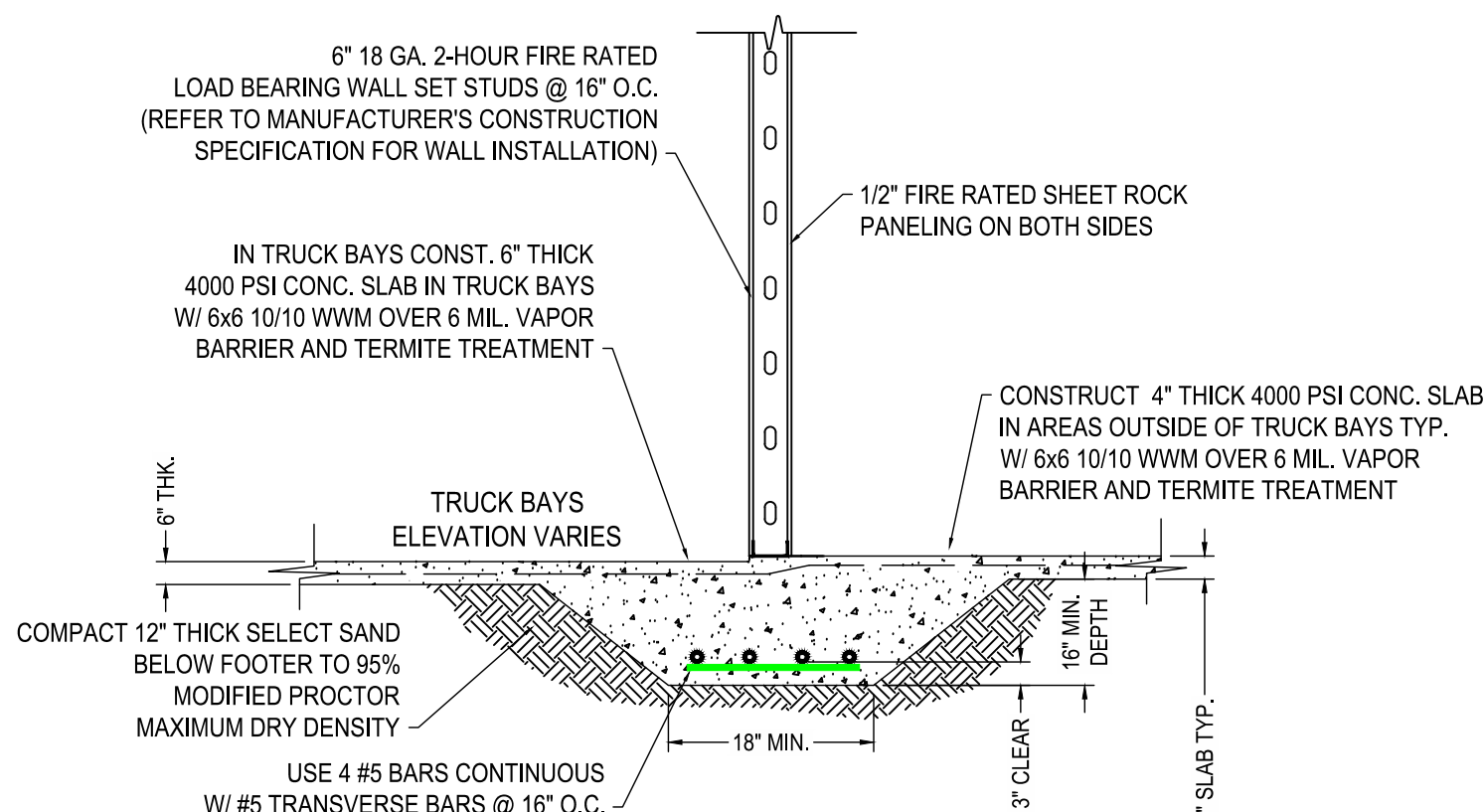
- GENERAL NOTES FOR FOUNDATION CONSTRUCTION**
- ALL CONSTRUCTION SHALL CONFORM TO THE 2020 FLORIDA BUILDING CODE. IN THE EVENT OF A CONFLICT BETWEEN PLANS AND THE CODES, THE CODES SHALL GOVERN.
  - CONCRETE: 4000 PSI STEEL GRADE 60 ONLY.
  - ASSUMED BEARING CAPACITY OF EXISTING UNDISTURBED SOILS IS 1500 PSF MINIMUM.
  - ALL SELECT SAND FILL SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR PROVIDE DENSITY TESTING AT 20' O.C. IN EACH BUILDING FOOTER.
  - ALL LAP SPICES IN FOOTING STEEL SHALL BE LAPPED 24 BAR DIAMETERS.
  - STEEL IN INTERIOR GRADE BEAMS SHALL BE SPICED TO STEEL IN EXTERIOR GRADE BEAMS TO ASSURE CONTINUITY OF FOOTING THROUGHOUT STRUCTURE.
  - ALL REINFORCED CONCRETE COVER SHALL BE A MINIMUM OF 3" UNLESS OTHERWISE NOTED IN PLANS.
  - EXTERIOR GRADE BEAMS SHALL RUN CONTINUOUS AROUND THE PERIMETER OF THE STRUCTURE TO ASSURE CONTINUITY.
  - ALL CONCRETE SLABS SHALL HAVE CONTROL JOINTS TO CONTROL CRACKING SPACED MAXIMUM 20 FEET IN EACH DIRECTION.
  - SOIL SHALL BE CHEMICALLY TREATED FOR TERMITES.
  - SINCE THE SITE PLAN IS BASED ON DATA PROVIDED BY THE OWNER, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE PRIOR TO BEGINNING CONSTRUCTION.
  - CONTRACTOR SHALL PROOF ROLL ENTIRE FOUNDATION AREA W/ 4-10 TON ROLLER AFTER STRIPPING SOIL AND PRIOR TO DIGGING ANY FOUNDATION FOOTERS.



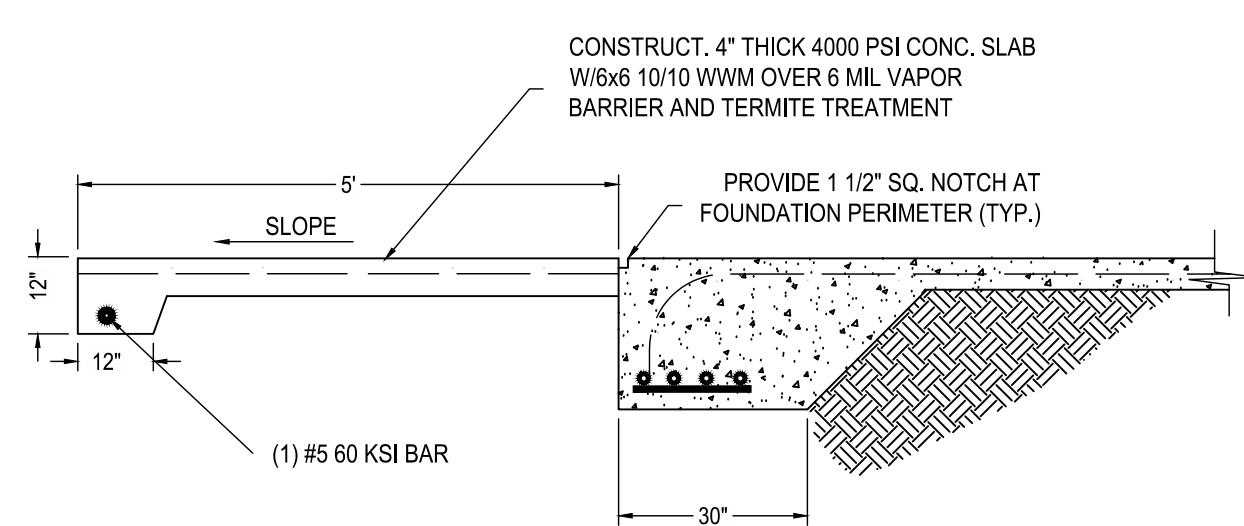
**A** PERIMETER GRADE BEAM CROSS SECTION  
A1.2



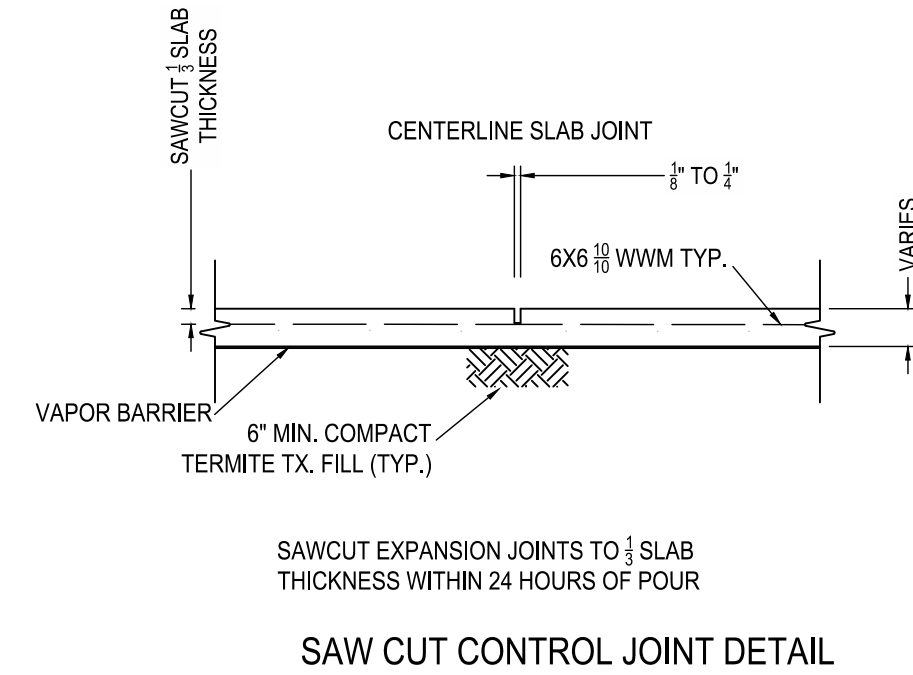
**E** INTERIOR GRADE BEAM CROSS SECTION  
A1.2



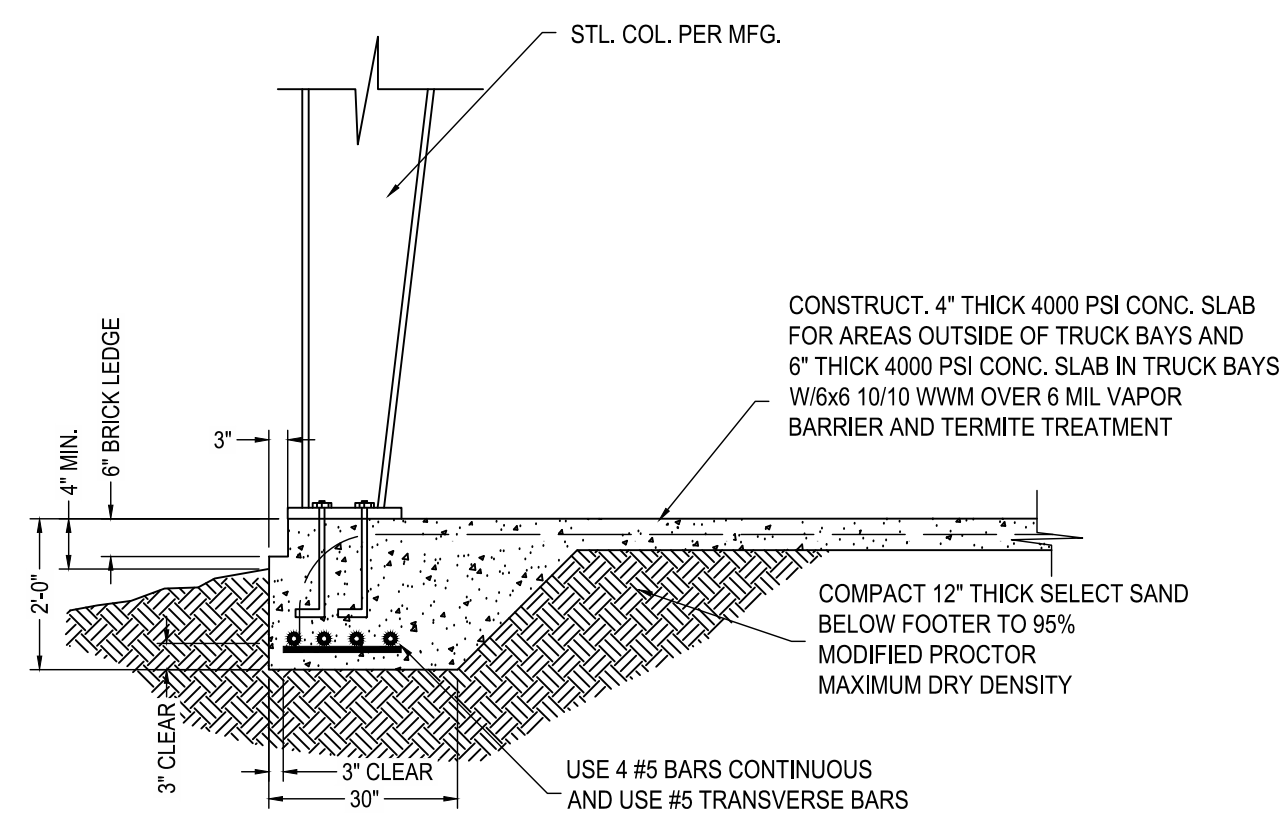
**B** INTERIOR GRADE BEAM CROSS SECTION  
A1.2



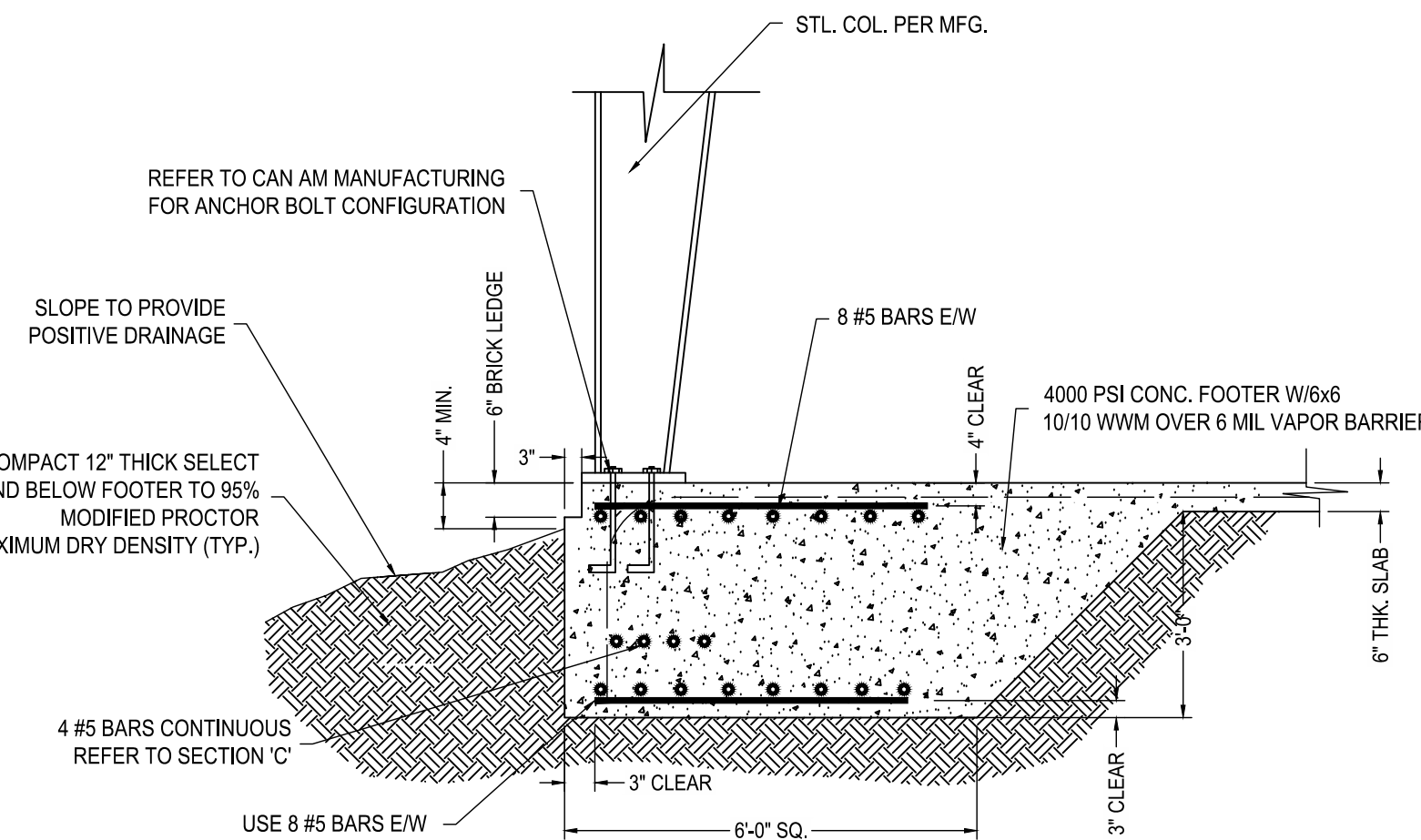
**F** PERIMETER GRADE BEAM AT PORCH CROSS SECTION  
A1.2



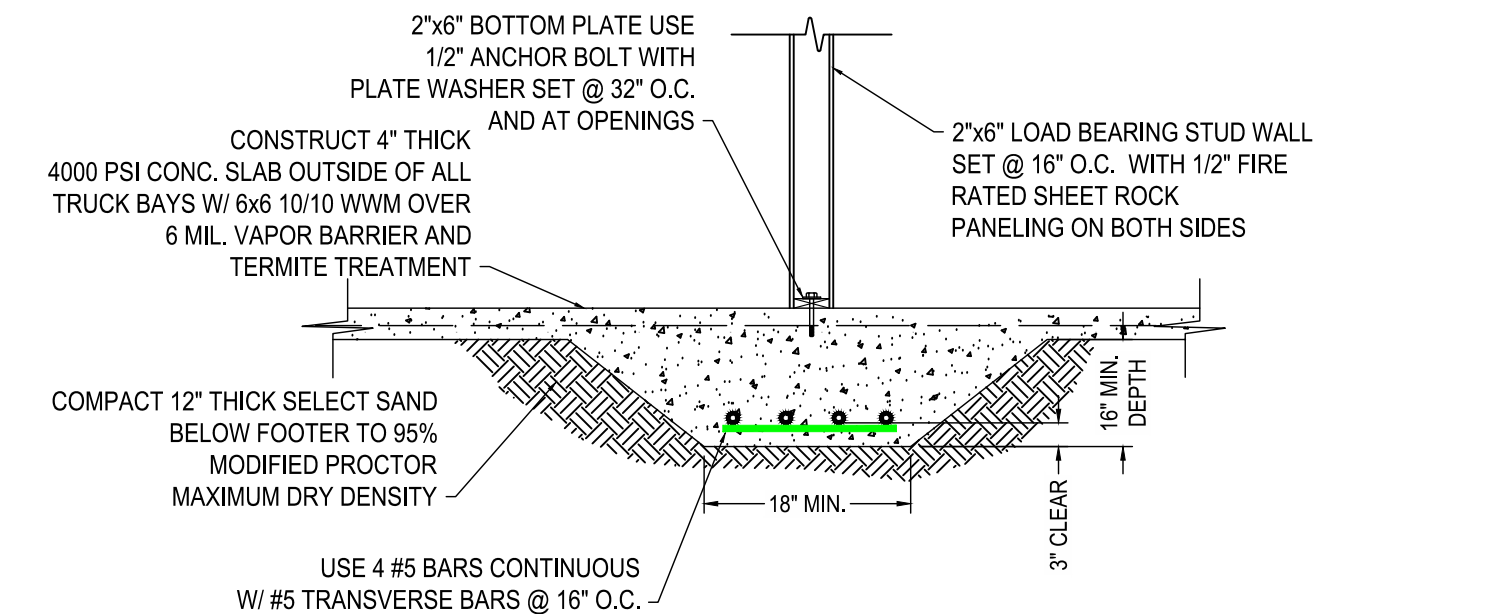
**J** PERIMETER GRADE BEAM AT CORNER COLUMN CROSS SECTION  
A1.2



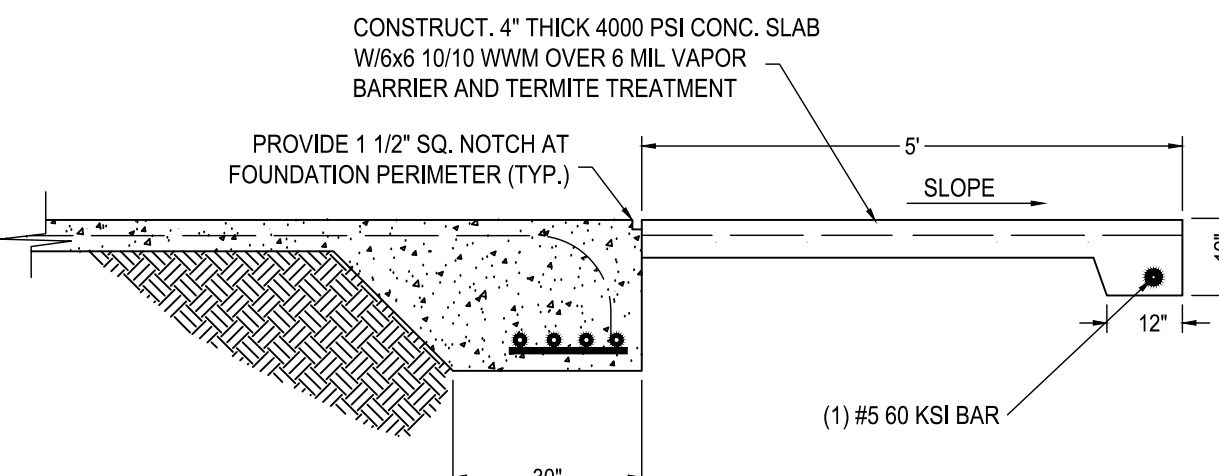
**C** PERIMETER GRADE BEAM CROSS SECTION  
A1.2



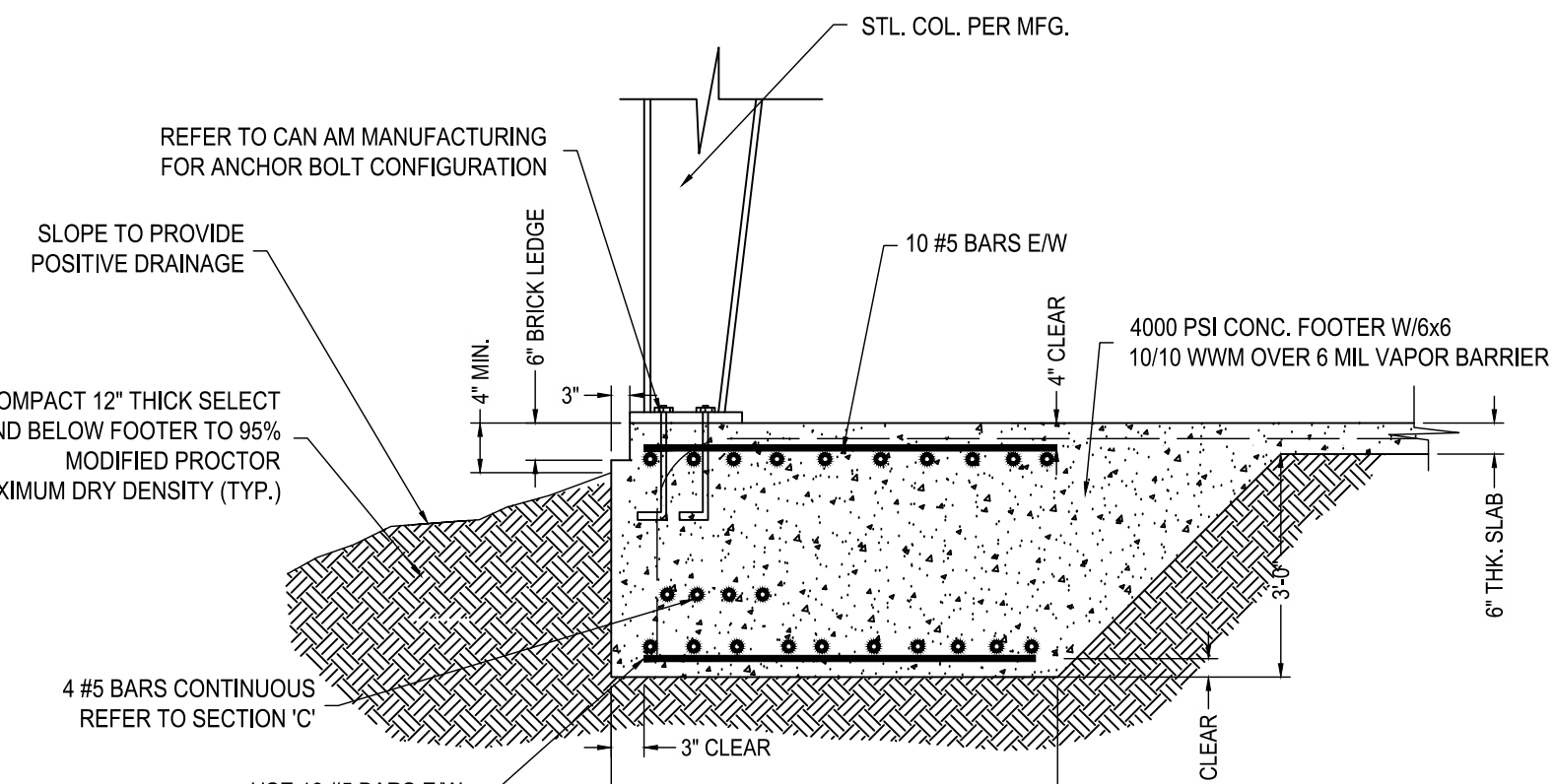
**G** PERIMETER GRADE BEAM AT COLUMN CROSS SECTION  
A1.2



**D** INTERIOR GRADE BEAM AT LOAD BEARING WALL  
A1.2



**H** PERIMETER GRADE BEAM AT PORCH CROSS SECTION  
A1.2



**I** PERIMETER GRADE BEAM AT COLUMN CROSS SECTION  
A1.2





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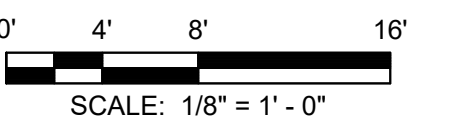
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TITLE  
GENERAL NOTES

PROJECT NO. \_\_\_\_\_ 50150622

A1.7

SHEET NO.

PRE-ENGINEERED WOOD TRUSS FRAMING

- 1. THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS" AND FLORIDA BUILDING CODE 2010 EDITION, AND THE NATIONAL DESIGN STANDARD FOR METAL PLATE, CONNECTED WOOD TRUSS CONSTRUCTION.
- 2. IN ACCORDANCE WITH RULE 61G15-31.003 OF THE FLORIDA ADMINISTRATIVE CODE THE TRUSS SYSTEM ENGINEER, A DELEGATED ENGINEER, SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW TO ARCHITECT / ENGINEER FOR THE ASSEMBLAGE OF PREFABRICATED, ENGINEERED WOOD TRUSSES AND TRUSS GIRDERS, TOGETHER WITH ALL BRACING, CONNECTIONS AND OTHER STRUCTURAL ELEMENTS AND ALL SPACING AND LOCATION CRITERIA (TRUSS PLACEMENT PLAN), THAT, IN COMBINATION, FUNCTION TO SUPPORT THE DEAD, LIVE AND WIND LOADS APPLICABLE TO THE ROOF TRUSS SYSTEM. THE TRUSS SYSTEM DOES NOT INCLUDE WALLS, OR ANY OTHER STRUCTURAL SUPPORT SYSTEMS. THESE SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE TRUSS SYSTEM ENGINEER.
- 3. IN ACCORDANCE WITH RULE 61G15-31.003 OF THE FLORIDA ADMINISTRATIVE CODE, THE TRUSS DESIGN ENGINEER, A DELEGATED ENGINEER, SHALL DESIGN THE INDIVIDUAL TRUSSES OF THE TRUSS SYSTEM, BUT DOES NOT DESIGN THE TRUSS SYSTEM. THE TRUSS DESIGN ENGINEER SHALL SUBMIT SHOP (PIECE) DRAWINGS AND CALCULATIONS FOR EACH DIFFERENT TRUSS AND TRUSS GIRDER THAT TOGETHER COMPRISE THE TRUSS SYSTEM. THESE SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE TRUSS DESIGN ENGINEER.
- 4. THE TRUSS SYSTEM ENGINEER AND THE TRUSS DESIGN ENGINEER SHALL EACH BE RESPONSIBLE FOR THEIR OWN WORK. HOWEVER, THEY MAY BE THE SAME INDIVIDUAL PROVIDING TWO SEPARATE SERVICES.
- 5. THE LOADS, LAYOUTS AND CONNECTIONS PROVIDED ON THE STRUCTURAL CONSTRUCTION DOCUMENTS ARE THE MINIMUMS TO BE FOLLOWED BY THE TRUSS SYSTEM ENGINEER AND THE TRUSS DESIGN ENGINEER.
- 6. USE STRESS-RATED TIMBER FOR ALL WOOD STRUCTURAL MEMBERS. USE WOOD STRUCTURAL MEMBERS WITH A MINIMUM BENDING STRESS OF 1200 PSI & MODULUS OF ELASTICITY NOT LESS THAN 1,400,000 PSI WHEN USED AT 19% MAXIMUM MOISTURE CONTENT.
- 7. PRESSURE TREATMENT OF ALL STRUCTURAL LUMBER SHALL BE IN ACCORDANCE WITH AWP standards C1 and C2, LATEST EDITIONS WITH A WATERBORNE PRESERVATIVE IN ACCORDANCE WITH STANDARD P5, LATEST EDITION. ALL LUMBER TO BE KILN-DRIED AFTER TREATMENT TO A MOISTURE CONTENT NOT TO EXCEED 19% OWEN-DRY BASIS, PER STANDARD C2. ALL LUMBER LESS THAN 4"x4" (NOMINAL SIZE) TO BE TREATED TO THE ABOVE GROUND REQUIREMENTS OF C2.
- 8. ANCHOR ROOF TRUSSES TO TOP PLATE W/ H-10 TRUSS CLIPS TOP.
- 9. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW TO ARCHITECT/ENGINEER FOR PRE-FABRICATED, ENGINEERED WOOD TRUSSES SHOWING ALL MATERIALS, CONNECTIONS, ERECTION PROCEDURE, BRACING, GIRDING, ATTACHMENT TO THE STRUCTURE, DESIGN LOADS (INCLUDING CONCENTRATED LOADS DUE TO EQUIPMENT, ETC.). SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED, BY OR UNDER THE SUPERVISION OF AND SIGNED AND SEALED BY A DELEGATED ENGINEER, SEE NOTES "SHOP DRAWINGS AND OTHER SUBMITTALS".
- 10. THE DESIGN AND ERECTION OF WOOD TRUSSES, INCLUDING PERMANENT BRACING, SHALL CONFORM TO THE COMMENTARY AND RECOMMENDATIONS OF THE TRUSS PLATE INSTITUTE. THESE CALCULATIONS ARE TO BE PROVIDED BY THE TRUSS MANUFACTURER AND SUBMITTED AS STATED PREVIOUSLY ON THIS DRAWING. IN ADDITION TO CONTINUOUS LATERAL BRACING OF TOP AND BOTTOM CHORDS (DESIGNED BY DELEGATED ENGINEER BUT SPACED NOT MORE THAN 10'-0" O.C.), PROVIDE DIAGONAL BRACING (MIN. 2" THICK NOMINAL LUMBER) AS FOLLOWS:
  - A. IN THE PLANE OF THE TOP CHORD - LOCATE BETWEEN LATERAL BRACING. SET AT 45° ANGLES. REPEAT AT MAX 20'-0" INTERVALS.
  - B. IN THE PLANE OF THE WEB MEMBERS (PERPENDICULAR TO TRUSSES) - AT EACH WEB MEMBER REQUIRING CONTINUOUS LATERAL BRACING BUT NOT MORE THAN 16'-0" INTERVALS, SPACING BETWEEN SETS OF DIAGONALS SHALL NOT EXCEED 20'-0" OR TWICE THE HORIZONTAL RUN AT THE DIAGONAL.
  - C. IN THE PLANE OF THE BOTTOM CHORD - PLACE BETWEEN CONTINUOUS LATERAL BRACING AT 45° ANGLES AT EACH END OF BUILDING.
  - D. ANCHOR ALL DIAGONAL BRACING TO REINFORCED MASONRY WALLS OR REINFORCED CONCRETE MEMBERS WITH PRE-FABRICATED (MIN. 12 ga) GALVANIZED STEEL STRAPS OR FRAMING CONNECTORS. FASTEN STRAPS TO MASONRY WITH 2 1/2"Ø MASONRY ANCHORS OR (4) .17"Øx1 1/2" POWDER DRIVEN PINS IF INTO CONCRETE AND TO WOOD MEMBERS WITH NOT LESS THAN (6) 16d NAILS.
- 11. MINIMUM DESIGN LOADS FOR ROOF TRUSSES:
  - 50 PSF LIVE LOAD TOP CHORD
  - 10 PSF DEAD LOAD TOP CHORD
  - 5 PSF DEAD LOAD BOTTOM CHORDSEE ROOF FRAMING PLAN FOR NET WIND UPLIFT LOAD & WIND PRESSURES BASED ON ASCE7. THE WEIGHT OF ROOFING & CEILING MAY NOT BE USED TO REDUCE WIND UPLIFT LOADS.

WOOD FRAMING & SHEATHING

- 1. WOOD CONSTRUCTION SHALL COMPLY WITH AF & PA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND CHAPTER 23 OF FBC.
- 2. MANUFACTURED LUMBER, S4S AND GRADESTAMPED, TO COMPLY WITH PS20 AND APPLICABLE GRADING RULES OF INSPECTION AGENCIES CERTIFIED BY ALSI'S BOARD OF REVIEW.
- 3. PROVIDE SEASONED LUMBER WITH 19% MOISTURE CONTENT AT THE TIME OF DRESSING AND SHIPMENT, FOR SIZES 2" OR LESS IN THICKNESS.
- 4. COMPLY WITH "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED ROOF TRUSSES".
- 5. ALL STRUCTURAL LUMBER TO BE MIN SOUTHERN YELLOW PINE NO. 2 S4S, GRADESTAMPED. ALL OTHER LUMBER PER ARCHITECTURAL SPECIFICATIONS.
- 6. USE LUMBER WITH MINIMUM Fb 1050 / 1200 PSI FOR SINGLE/REPETITIVE USE AND A MOULDES OF ELASTICITY, "E" OF 1,200,000 PSI (FOR WALLS AND BEAMS), PARALLEL STRAND LUMBER SHALL HAVE MINIMUM Fb 2900 PSI, E2,000,000 PSI & Fv x 290 PSI. EXTERIOR STUD WALLS TO BE CONSTRUCTED USING TIMBERSTRAND LSL.
- 7. AT ALL BUILT-UP WOOD AND BEAM BEARING LOCATIONS A MINIMUM OF (4) 2x6 STUD MEMBERS TO BE USED U.O.N.
- 8 MICRO-LAM LVL BEAMS USED AS MULTIPLE ASSEMBLY BEAMS TO BE CONNECTED WITH 3 ROWS OF 16d NAILS @ 12" O.C.
- 9. ONE PIECE OF 3 1/2" THICK MICRO-LAM LVL MAY BE SUBSTITUTED FOR TWO PIECES OF 1 3/4".
- 10. THE INDIVIDUAL STUDS OF BUILT-UP COLUMNS TO BE ADEQUATELY FASTENED TO DEVELOP COMPOSITE ACTION OF THE ASSEMBLY.
- 11. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS, U.O.N.
- 12. AT ALL BUILT-UP WOOD COLUMNS USE (2) HUGHES AS 5B ANCHOR TIE DOWNS OR EQUIV. AT BASE AND AT TOP OF BUILT-UP COLUMN. BEAMS OR TRUSS GIRDERS BEARING ON BUILT-UP COLUMNS TO BE ANCHORED W/WJWC WOOD TO WOOD UPLIFT CONNECTOR.
- 13. USE MANUFACTURERS REQUIRED SIZE AND NUMBER OF NAILS OR BOLTS FOR ANCHOR TIE DOWNS, HURRICANE CLIPS AND ALL CONNECTORS.
- 14. SECURELY ATTACH CARPENTRY WORK TO SUBSTRATES AND SUPPORTING MEMBERS USING FASTENERS OF SIZE THAT WILL NOT PENETRATE MEMBERS WHERE THE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR RECEIVE FINISH MATERIALS.
- 15. 3/4" PLYWOOD ROOF SHEATHING TO BE APA RATED 32/16 EXPOSURE I NAILED TO SUPPORTING MEMBERS WITH 10d NAILS @ 8" O.C. AND 4" O.C. ALONG THE EDGES. PROVIDE 1/16" SPACE AT END JOIST AND 1/8" AT EDGE JOINTS. PROVIDE PLY CLIPS ALONG EDGE JOINT AT MID SPAN BETWEEN SUPPORTS.
- 16. 3/4" PLYWOOD WALL SHEATHING TO BE NAILED TO WALL STUDS WITH 10d NAILS @ 8" O.C. AND 4" O.C. ALONG THE EDGES WITH CLIPS.
- 17. GYPSUM WALL SHEATHING AT EXTERIOR WALLS, LOAD BEARING WALLS AND INTERIOR WALLS INTERSECTING WALLS TO BE BLOCKED AND SECURED TO STUDS WITH DRYWALL NAILS AT 7" O.C. AND 4" O.C. ALONG THE EDGES.
- 18. PROVIDE CONT. LATERAL BRACING AND/OR BLOCKING BETWEEN CHORDS OF TRUSSES AS REQUIRED OR AS NOTED BY TRUSS MANUFACTURER TO ADEQUATELY TRANSFER LOADS TO SHEAR WALLS.
- 19. CONTRACTOR TO VERIFY THAT HURRICANE CLIPS/TIE DOWNS SHOWN WILL RESIST WIND UPLIFT FROM ROOF TRUSSES. IF UPLIFT VALUE FROM ROOF TRUSS MANUFACTURER EXCEEDS CAPACITY OF THE HURRICANE CLIPS/TIE DOWN, THE CONTRACTOR SHALL PROVIDE A CONNECTOR TO SAFELY RESIST THE UPLIFT LOADS.
- 20. PLACE FLAT STRAPPING BETWEEN STUDS AT ENDS OF ALL BEAM BEARING LOCATIONS, W/ 1 1/4"x30"x16 GA FLAT STRAP W/ (24) 10d NAILS TO BE PLACED AT ENDS OF BUILT-UP WOOD BEAMS.
- 21. ANCHOR BOLTS TO BE 1/2"x10" LONG W/ 2" SQ. WASHERS & SPACED 24" O.C. U.O.N. FIRST ANCHOR BOLT IS TO BE PLACED MAX 4" FROM EACH CORNER.
- 22. EXTERIOR END WALLS AT VAULTED OR CATHEDRAL CEILING LOCATIONS TO BE BALLOON FRAMED FROM SILL PLATE TO ROOF DIAPHRAGM.
- 23. PROVIDE THREADED ROD TIE-DOWN SYSTEM AT LOCATIONS NOTED ON PLANS.
- 24. ALL PRESSURE TREATED LUMBER TO BE ALKALINE COPPER QUAT (ACQ) TREATED, KILN DRIED AND CONNECTED WITH STAINLESS STEEL FASTENERS.
- 25. ALL CONNECTORS AND PLATES SHALL BE STAINLESS STEEL U.O.N. TRUSS PLATES AT INTERIOR LOCATIONS MAY BE GALVANIZED.
- 26. AT ENDS OF ALL SHEAR WALLS PLACE MIN. (3) BUILT-UP STUD GROUP. INSTALL SIMPSON HD101 HOLDDOWN ANC. AT BUILT-UP STUD GROUP ENDS OF SHEAR WALLS TO PROVIDE CONTINUOUS LOAD PATH FROM FRAMING LEVEL TO PRE-CAST BEAM LEVEL.
- 27. EXTERIOR WALLS TO BE FRAMED WITH TIMBERSTRAND LSL WALL STUDS AT ALL LOCATIONS. PROVIDE 1 ROW OF TIMBERSTRAND LSL BLKG. FOR WALLS UP TO 14' HIGH AND 2 ROWS FOR WALLS GREATER THAN 14' HIGH. NAIL STUDS TO PLATES W/ (3) 16d (3 1/2") END NAILS. 2x6 MEMBERS @ 12" O.C. TO BE USED FOR WALLS UP TO 14'-0". FOR END WALLS AND GABELS PROVIDE 3x6 MEMBERS @ 12" O.C.
- 28. THE ENGINEER SHOULD BE NOTIFIED OF ANY DEVIATIONS FROM THE PLANS OR TRUSS SHOP DRAWINGS.
- 29. PERMANENT TRUSS BOTTOM CHORD LATERAL BRACING, CONSISTING OF 2x4 GRADE MARKED LUMBER, NAILED W/ MIN. (2) 16d NAILS PER TRUSS AND LAPPED AT LEAST TWO TRUSSES, SHALL BE SPACED NO GREATER THAN 15'-0".
- 30. PRE-ENGINEERED TRUSS BRACING PER TRUSS MANUFACTURER TO BE A MINIMUM OF 2x4 OF THE SAME SPECIES AS TRUSS.
- 31. CEILING TO BE A MINIMUM OF 1/2" GYPSUM WITH 5d COOLER NAILS OR GWB-54 1 1/2" NAILS INSTALLED AT 10" O.C. AND 7" ALONG EDGES.
- 32. ALL TIMBER PRODUCTS SHALL BE INSPECTED IN ACCORDANCE WITH SECTION 951 AND SHALL MEET SPECIFICATIONS UNDER SECTION 952, 953, 954, AND 955 OF THE 2013 FDOT STANDARD SPECIFICATIONS.
- 33. CONTRACTOR MAY USE ALTERNATE STRAP AND ANCHOR MANUFACTURER FOR CONNECTIONS AND SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.

CONCRETE MASONRY

- 1. CONSTRUCT MASONRY IN ACCORDANCE WITH SPECIFICATION SECTIONS 04200 AND 04230, ACI 530/ASCE 5, "BUILDING CODE REQUIREMENTS FOR CONCRETE M530.1 / ASCE 6,"SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY".
- 2. THE STRUCTURE IS SUPPORTED BY BEARING WALLS, U.O.N. ERECT MASONRY PRIOR TO CASTING CONCRETE COLUMNS WITHIN BEARING WALLS OR CASTING BEAMS AND SLABS SUPPORTED BY BEARING WALLS.
- 3. USE 50% SOLID, NOMINAL 88x16, CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. LAY UP UNITS IN RUNNING BOND. SAWCUT UNITS WHICH ARE NOT IN MULTIPLES OF 8". UNITS SHALL BE AT LEAST 8" LONG. BAND CORNERS BY LAPPING ENDS 8" IN SUCCESSIVE VERTICAL COURSES. DESIGN OF WALLS IS BASED ON A Fm OF 1500 PSI.
- 4. USE TYPE S MORTAR IN ACCORDANCE WITH ASTM C270 EXCEPT USE TYPE M MORTAR BELOW GRADE. HEAD AND BED JOINTS SHALL BE 3/8" FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF PIERS, COLUMNS AND PILASTERS, IN THE STARTING COURSE, AND WHERE AN ADJACENT CELL IS TO BE GROUTED. REMOVE MORTAR PROTRUSIONS EXTENDING 1/2" OR MORE INTO CELLS TO BE GROUTED.
- 5. USE STANDARD (9 GAGE) HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A-82 IN EVERY OTHER COURSE. OVERLAP DISCONTINUOUS ENDS 6". USE PREFABRICATED CORNERS. USE TRUSS TYPE, EXCEPT USE LADDER TYPE IN WALLS WITH VERTICAL REINFORCING. EXTEND JOINT REINFORCING A MINIMUM OF 4" INTO THE COLUMNS.
- 6. USE FINE GROUT CONFORMING TO ASTM C-476, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI IN 28 DAYS. AGGREGATE TO CONFORM TO ASTM C404 FOR FINE GROUT, WITH SLUMP OF 8" TO 10". GROUT ALL MASONRY CELLS. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING. PROVIDE CLEANOUT OPENINGS AT THE BASE OF CELLS CONTAINING REINFORCING STEEL TO CLEAN THE CELL AND TO TIE THE VERTICAL BAR TO THE DOWEL. IN HIGH-LIFT GROUTING, USE 5'-0" (MAXIMUM) LIFTS, WITH 1/2" HOUR TO 1 HOUR BETWEEN LIFTS. VIBRATE EACH LIFT AND RECONSOLIDATE THE PREVIOUS LIFT.
- 7. USE ASTM A-615 GRADE 60 REINFORCING STEEL. REINFORCE WALLS WHERE INDICATED ON THE DRAWINGS AND AT ALL INTERSECTIONS, EACH SIDE OF OPENINGS AND AT THE ENDS OF WALLS. USE BAR SPACERS AT 10'-0" O.C. WHERE GROUT POUR HEIGHT EXCEEDS 10'-0".
- 8. AT BOND/TIE BEAM CORNERS AND INTERSECTIONS, PLACE 1 #5 x 5'-0" T & B CORNER BAR, WITH 30" LEGS EACH WAY, AT THE EXTERIOR FACE.
- 9. BEAMS NOT SCHEDULED ARE MINIMUM 8" X 12" TIE BEAMS WITH 2 #5 BARS TOP AND BOTTOM AND #3 TIES SPACED AT 48" O.C. TYPICAL AND 4 TIES AT 12" O.C. AT ENDS AND INTERSECTIONS, U.O.N. COLUMNS NOT SCHEDULED ARE MINIMUM 8" X 12" TIE COLUMNS WITH 4 #5 VERTICAL BARS AND #2 TIES AT 12" O.C. USE 30" LAP SPLICES. HOOK ALL BARS AT DISCONTINUOUS ENDS.
- 10. REINFORCED MASONRY WALL CONSTRUCTION SHALL BE INSPECTED BY AN ENGINEER OR ARCHITECT IN ACCORDANCE WITH ACI 530.1/ASCE 6.
- 11. WHERE ANCHOR BOLTS, WEDGE ANCHORS OR ANCHORS SET IN EPOXY ARE SET IN A MASONRY WALL, FILL CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW.
- 12. PROVIDE LINTELS OR HEADERS WITH MINIMUM 8" BEARING OVER ALL MASONRY OPENINGS.
- 13. USE PRESSURE TREATED WOOD FOR WOOD IN CONTACT WITH MASONRY.
- 14. ALL CELLS SHALL BE SOLID FILLED W/ GROUT CONFORMING TO ASTM C-476.
- 15. ALL P.T. FURRING SHALL BE ANCHORED W/ 2 1/2" TAPCON SCREWS @ 16" O.C. TYP.

SHALLOW FOUNDATIONS:

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE 2017 FLORIDA BUILDING CODE.
- 2. IN THE EVENT OF A CONFLICT BETWEEN PLANS AND THE CODES, THE CODES SHALL GOVERN.
- 3. CONCRETE: 3500 PSI STEEL: GRADE 60 ONLY
- 4. FOUNDATION DESIGN, SOIL PREPARATION AND COMPACTION ARE ASSUMED 1500 PSI BEARING CAPACITY.
- 5. ALL SELECT SAND FILL SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR PROVIDE DENSITY TESTING AT 25' O.C. IN EACH BUILDING FOOTER.
- 6. ALL LAP SPLICES IN FOOTING STEEL SHALL BE LAPPED 24 BAR DIAMETERS.
- 7. STEEL IN INTERIOR GRADE BEAMS SHALL BE SPICED TO STEEL IN EXTERIOR GRADE BEAMS TO ASSURE CONTINUITY OF FOOTING THROUGHOUT STRUCTURE.
- 8. ALL REINFORCED CONCRETE COVER SHALL BE A MINIMUM OF 3" UNLESS OTHERWISE NOTED ON PLANS.
- 9. EXTERIOR GRADE BEAMS RUN CONTINUOUS AROUND THE PERIMETER OF THE STRUCTURE TO ASSURE CONTINUITY.
- 10. ALL CONCRETE SLABS SHALL HAVE CONTROL JOINTS TO CONTROL CRACKING SPACED MAXIMUM 25 FEET IN EACH DIRECTION.
- 11. SOIL SHALL BE CHEMICALLY TREATED FOR TERMITES.
- 12. SINCE SITE PLAN IS BASED ON DATA PROVIDED BY THE OWNER, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE PRIOR TO BEGINNING CONSTRUCTION.

CHEMICAL ADHESIVE FOR ANCHORING REINFORCING BOLTS, THREADED BARS & ANCHOR BOLTS

- 1. USE AN EPOXY, ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS THE POWERS RAWL POWER-FAST SYSTEM, HILTI HIT HY150, ITW RAMSEY/RED HEAD EPOON AT OR CG INJECTION SYSTEM, ALLIED FASTENER ALLED GOLD A-1000, OR ACCEPTED EQUIVALENT. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.
- 2. CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A 1/4" Ø PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- 3. DRILL 1/16" LARGER Ø HOLE THAN ANCHOR BOLT AND 1/8" LARGER HOLE THAN REINFORCING BAR. THOROUGHLY CLEAN HOLE INCLUDING REMOVAL OF DUST PRIOR TO FILLING WITH EPOXY.
- 4. PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.

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## ELECTRICAL SPECIFICATIONS

### BASIC ELECTRICAL MATERIALS AND METHODS

- ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: NEW, LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- IDENTIFICATION DEVICE COLORS: USE THOSE PRESCRIBED BY ANSI A13.1, NFPA 70, AND THESE SPECIFICATIONS.
- COLORED ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES, AND CABLES: SELF-ADHESIVE VINYL TAPE, NOT LESS THAN 1 INCH WIDE BY 3 MILS THICK (25 MM WIDE BY 0.08 MM THICK).
- TAPE MARKERS FOR CONDUCTORS: VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAPAROUND TYPE WITH PREPRINTED NUMBERS AND LETTERS.
- ENGRAVED-PLASTIC LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK, MELAMINE PLASTIC LAMINATE PUNCHED OR DRILLED FOR MECHANICAL FASTENERS 1/16-INCH (1.6-MM) MINIMUM THICKNESS FOR SIGNS UP TO 20 SQ. IN. (129 SQ. CM) AND 1/8-INCH (3.2-MM) MINIMUM THICKNESS FOR LARGER SIZES. ENGRAVED LEGEND IN BLACK LETTERS ON WHITE BACKGROUND.
- PULL STRINGS: PROVIDE PULL STRINGS IN ALL SPARE OR EMPTY CONDUITS AND RACEWAYS.
- COORDINATE NAMES, ABBREVIATIONS, COLORS, AND OTHER DESIGNATIONS USED FOR ELECTRICAL IDENTIFICATION WITH CORRESPONDING DESIGNATIONS INDICATED IN THE CONTRACT DOCUMENTS OR REQUIRED BY CODES AND STANDARDS. USE CONSISTENT DESIGNATIONS THROUGHOUT PROJECT.
- CUT, CHANNEL, CHASE, AND DRILL WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED. SLEEVE ALL CABLE PENETRATIONS OF WALLS. SEAL ALL CONDUIT PENETRATIONS.
- REPAIR, REFINISH AND TOUCH UP DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES.
- ALL WORK SHALL COMPLY WITH ALL CODES & STANDARDS LISTED ON THE PLANS. WITHIN 30 DAYS OF NOTICE TO PROCEED, CONTRACTOR SHALL ARRANGE AND ATTEND A MEETING ON-SITE WITH A REPRESENTATIVE OF THE UTILITY TO COORDINATE REQUIREMENTS AND SCHEDULING OF INSTALLATION OF NEW SERVICE.

### GROUNDING AND BONDING

- EQUIPMENT GROUNDING CONDUCTORS: COMPLY WITH NFPA 70, ARTICLE 250, FOR TYPES, SIZES, AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS, UNLESS SPECIFIC TYPES, LARGER SIZES, OR MORE CONDUCTORS THAN REQUIRED BY NFPA 70 ARE INDICATED.
- INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND BRANCH CIRCUITS.
- ALL GROUNDING CONDUCTORS SHALL BE COPPER; COMPLY WITH DIVISION 16 SECTION "CONDUCTORS AND CABLES" AND ASTM B, AS APPLICABLE.
- EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.

### CONDUCTORS AND CABLES

- CONDUCTOR MATERIAL: COPPER COMPLYING WITH NEMA WC 5 OR 7; SOLID CONDUCTOR FOR NO. 10 AWG AND SMALLER, STRANDED FOR NO. 8 AWG AND LARGER. ALUMINUM CONDUCTORS PERMITTED ONLY WHERE SPECIFICALLY CALLED OUT ON POWER RISER DIAGRAM.
- CONDUCTOR INSULATION TYPES: TYPE THHN-TWVN COMPLYING WITH NEMA WC 5 OR 7.
- TYPE NM CABLE: NOT PERMITTED.
- TYPE MC CABLE: PERMITTED FOR 15A/20A BRANCH CIRCUITS ONLY, IN CONCEALED LOCATIONS, WHERE ALLOWED BY CODE.
- EXPOSED FEEDERS, AND FEEDERS CONCEALED IN CONCRETE OR BELOW SLAB OR BELOW GRADE: TYPE THHN-TWVN, SINGLE CONDUCTORS IN RACEWAY.
- BRANCH CIRCUITS & FEEDERS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN-TWVN, SINGLE CONDUCTORS IN RACEWAY, OR MC CABLE WHERE ALLOWED BY NOTE 4, ABOVE.
- CONCEAL CABLES AND RACEWAYS IN FINISHED WALLS, CEILINGS, AND FLOORS. USE MANUFACTURER-APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DETERIORATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.
- INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OF EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE.
- MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.
- WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 6 INCHES (150 MM) OF SLACK.
- FREE CABLES ABOVE CEILING, NOT IN CONDUIT SHALL BE PLENUM RATED.

### RACEWAYS AND BOXES

- ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- UNLESS OTHERWISE NOTED, PROVIDE NEMA 1 ENCLOSURES IN INDOOR LOCATIONS, NEMA 3R ENCLOSURES IN OUTDOOR LOCATIONS.
- MINIMUM RACEWAY SIZE: 1/2" TRADE SIZE.
- KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING. PROTECT STUB-UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS. ARRANGE SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.
- MAKE BENDS AND OFFSETS SO ID IS NOT REDUCED. KEEP LEGS OF BENDS IN SAME PLANE AND KEEP STRAIGHT LEGS OF OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.
- CONCEAL CONDUIT AND EMT WITHIN FINISHED WALLS AND CEILINGS.
- INSTALL EXPOSED RACEWAYS PARALLEL OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE.
- FLEXIBLE CONNECTIONS: USE MAXIMUM OF 72 INCHES (1830 MM) OF FLEXIBLE CONDUIT FOR RECESSED AND SEMIRECESSED LIGHTING FIXTURES; FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR ALL MOTORS. USE EMC IN DAMP OR WET LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.

### WIRING DEVICES

- STRAIGHT-BLADE-TYPE RECEPTACLES: COMPLY WITH NEMA WD 1, NEMA WD 6, DSCC W-C-5966, AND UL 498. STRAIGHT-BLADE AND LOCKING RECEPTACLES: HEAVY-DUTY GRADE.
- GFI RECEPTACLES: STRAIGHT BLADE, HEAVY-DUTY GRADE, WITH INTEGRAL NEMA WD 6, CONFIGURATION 5-20R DUPLEX RECEPTACLE; COMPLYING WITH UL 498 AND UL 943. DESIGN UNITS FOR INSTALLATION IN A 2-3/4-INCH-(70-MM)-DEEP OUTLET BOX WITHOUT AN ADAPTER.
- SINGLE- AND DOUBLE-POLE SWITCHES: COMPLY WITH DSCC W-C-896F AND UL 20.
- SNAP SWITCHES: HEAVY-DUTY GRADE, QUIET TYPE.
- FINISHES: WHITE, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70. PROVIDE STAINLESS COVERPLATES.
- INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING LINES.
- ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LOW DIMENSION VERTICAL. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.
- REMOVE WALL PLATES AND PROTECT DEVICES AND ASSEMBLIES DURING PAINTING.
- ADJUST LOCATIONS OF FLOOR SERVICE OUTLETS AND SERVICE POLES TO SUIT ARRANGEMENT OF PARTITIONS AND FURNISHINGS.
- AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS.
- TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

### ENCLOSED SWITCHES

- ENCLOSED SWITCHES SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
- NEUR OR ENCLOSED SWITCHES SHALL BE LOCKABLE.
- MENT INDIVIDUAL WALL-MOUNTING SWITCHES WITH TOPS AT UNIFORM HEIGHT, UNLESS OTHERWISE INDICATED.
- ENCLOSED SWITCHES SHALL BE UL LISTED FOR THE APPLICATION USED; ENCLOSURES SHALL BE NEMA 1 FOR INDOORS, NEMA 3R FOR OUTDOORS.
- PROVIDE FUSES FOR ALL FUSIBLE SWITCHES.
- FIELD-COORDINATE EXACT LOCATION OF SWITCHES WITH EQUIPMENT SERVED, AND OTHER TRADES, TO ASSURE MINIMUM N.E.C. CLEARANCE REQUIREMENTS ARE MET. PROVIDE PERMANENT LABELING OF EACH SWITCH TO INDICATE PANEL AND CIRCUIT SWITCH IS FED FROM (E.G., "A-4.6"). FOR CONDENSER UNITS, ALSO INDICATE AREA EQUIPMENT SERVES (E.G., "RM 101"). PROVIDE WEATHERPROOF LABELING OF EXTERIOR SWITCHES.

### PANELBOARDS

- MANUFACTURERS: PANELBOARDS SHALL BE MANUFACTURED BY SQUARE-D, CUTLER-HAMMER, GE, OR SIEMENS.
- ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS. NEMA PB 1, TYPE 1, OR TYPE 3R AS INDICATED.
- PHASE AND GROUND BUSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
- SERVICE EQUIPMENT LABEL: UL LABELED FOR USE AS SERVICE EQUIPMENT FOR PANELBOARDS WITH MAIN SERVICE DISCONNECT SWITCHES.
- FUTURE DEVICES: MOUNTING BRACKETS, BUS CONNECTIONS, AND NECESSARY APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DEVICES.
- PANELBOARD SHORT-CIRCUIT RATING: SERIES RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AS NOTED ON THE PANEL SCHEDULES.
- MAIN OVERCURRENT PROTECTIVE DEVICES: CIRCUIT BREAKER.
- MOLDED-CASE CIRCUIT BREAKER: UL 489, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.
- PROVIDE AS-BUILT PANEL DIRECTORIES, CLEARLY INDICATING DEVICES/EQUIPMENT SERVED AND LOCATION (E.G., "RECEPTACLES-RM 101"). IN THE CASE OF CONDENSER UNITS, PANEL DIRECTORIES SHALL INDICATE MECHANICAL DESIGNATION AS WELL AS THE AREA THE MECHANICAL UNIT SERVES (E.G., "HP-1 RM 101").

### LIGHTING

- LIGHTING FIXTURES: PER LIGHTING FIXTURE SCHEDULE.
- PROVIDE LOW-VOLTAGE CABLING AS REQUIRED FOR DIMMING AND CONTROL.
- WHERE EXIT SIGNS ARE USED, THEY SHALL BE LED-TYPE.
- FIXTURES: SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS. INSTALL LAMPS IN EACH FIXTURE.
- PROVIDE BLOODING, BACKBOXES, SUPPORTS, STEMS, COUPLINGS, AND OTHER HARDWARE AS NEEDED FOR A COMPLETE FUNCTIONAL INSTALLATION.
- FOR EMERGENCY LIGHTING, PROVIDE UNSWITCHED NORMAL POWER CONDUCTOR AS INDICATED ON THE PLANS.

### FIRE ALARM

- THE CONTRACTOR SHALL FURNISH ALL LABOR AND EQUIPMENT FOR A COMPLETE NEW ADDRESSABLE FIRE ALARM SYSTEM AND SHALL POSSESS THE APPROPRIATE EC OR E.F. LICENSE AS REQUIRED BY THE STATE OF FLORIDA.
- THE FIRE ALARM SYSTEM SHALL BE INSTALLED, INSPECTED, TESTED AND CERTIFIED PER APPROPRIATE NFPA 12, 12A, 70, 72, 72E, 90A AND 101. ANY OTHER APPLICABLE CODE SHALL APPLY TO MEET STATE OF FLORIDA AND FIRE MARSHAL REQUIREMENTS. THE EQUIPMENT SHALL BE APPROVED BY UNDERWRITERS LABORATORIES, INC., SHALL COMPLY WITH NFPA CODES AND REGULATIONS AND MEET REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
- IN ADDITION TO DEVICES SHOWN ON THE PLAN, THE CONTRACTOR SHALL PROVIDE ALL CARDS, MODULES, POWER SUPPLIES, AMPLIFIERS, CABLING, AND OTHER EQUIPMENT AS MAY BE NECESSARY TO SERVE ALL DEVICES SHOWN.
- THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR A PERIOD OF ONE YEAR FOR EQUIPMENT, MATERIALS AND WORKMANSHIP OF THE MODIFICATIONS OF THE SYSTEM, AS SHOWN ON THESE PLANS.
- ALL CIRCUITS SHALL BE CLASS B. PROVIDE SURGE SUPPRESSION ON ALL CIRCUITS ENTERING THE BUILDING.
- CONTRACTOR SHALL TEST AND CERTIFY SYSTEM PRIOR TO COMPLETION OF THE PROJECT.
- THE FIRE ALARM CONTRACTOR SHALL APPLY FOR, AND OBTAIN, A SEPARATE PERMIT FOR ALL FIRE ALARM WORK. PROVIDE ALL SHOP DRAWINGS REQUIRED FOR PERMITTING, INCLUDING:
  - PLANS SHOWING NEW ALARM DEVICE, MODULE AND PANEL LAYOUT, SPECIFICATIONS AND INFORMATION (INCLUDING CANDELA USED IN THE SCOPE OF WORK).
  - THE SPECIFICATIONS SHOULD CLEARLY NOTE OR DEMONSTRATE COMPATIBILITY WITH ANY EXISTING COMPONENTS AND COMPLIANCE WITH THE SYNCHRONIZATION REQUIREMENT OF NFPA 72.
  - A RISER DIAGRAM SHOWING DEVICES AND WIRING NOTES OR SCHEDULE;
  - POWER CALCULATIONS WITH STANDBY POWER VALUES.

### PACKAGED ENGINE GENERATORS

- MANUFACTURERS: GENERATOR SHALL BE MANUFACTURED BY CATERPILLAR, CUMMINS, KOHLER, KVA POWER, L.J. POWER GENERATORS, GILLETTE GENERATORS, OR TAYLOR POWER SYSTEMS. OTHER MANUFACTURERS MUST BE APPROVED BY THE ENGINEER PRIOR TO SUBMITTING A BID.
- RATINGS: 120/208V, THREE-PHASE; STANDBY POWER RATING AS NOTED ON PLANS/RISER.
- ENCLOSURES: WEATHERPROOF, SOUND-ATTENUATED ENCLOSURE, RATED FOR 120MPH WIND VELOCITY.
- ENGINE: 4-CYCLE INDUSTRIAL WATER-COOLED, DIESEL FUELED, WITH ELECTRONIC CONTROL, CERTIFIED TO US EPA STATIONARY EMISSION REGULATION 40 CFR, PART 60; MEET OR EXCEED EPA TIER III.
- ALTERNATOR: CLASS H INSULATION, 150 C TEMPERATURE RISE, 1% VOLTAGE REGULATION (NO LOAD TO FULL LOAD), LESS THAN 5% THD, WITH PERMANENT MAGNET EXCITATION.
- LISTINGS AND STANDARDS: UL LISTED TO UL 2200, DESIGNED TO ALLOW FOR INSTALLED COMPLIANCE WITH REQUIREMENTS OF NFPA 110 LEVEL 1.
- MAIN OVERCURRENT PROTECTIVE DEVICES: CIRCUIT BREAKER, 100% RATED.
- GENERATOR-MOUNTED CONTROL PANEL: DESIGNED AND BUILT BY THE SYSTEM MANUFACTURER AND INCORPORATING 100% SOLID-STATE CIRCUITRY, SEALED DUST-TIGHT, WATERTIGHT MODULAR COMPONENTS AND INSTRUMENTATION. THE PANEL SHALL BE SHOCK MOUNTED TO THE GENERATOR.
- MOUNTING: THE ENGINE-GENERATOR SET SHALL BE MOUNTED ON A STRUCTURAL BASE.
- CRITICAL GRADE SILENCER MUST BE ENCLOSED WITHIN THE UNIT IN A SEPARATE DISCHARGE BOX WITH THERMAL GRADE WRAPPING.
- UNIT SHALL BE SUPPLIED WITH A LEAD-ACID STARTING BATTERY, WITH A BATTERY CHARGER, INSTALLED INSIDE UNIT ENCLOSURE.
- PROTECTIVE DEVICES: SAFETY SHUTOFFS FOR HIGH WATER TEMPERATURE, LOW OIL PRESSURE, ELECTRICAL OVER-SPEED, AND ENGINE OVER-CRANK SHALL BE PROVIDED.
- AN ENGINE-MOUNTED THERMAL CIRCULATION WATER HEATER INCORPORATING AN ADJUSTABLE THERMOSTATIC SWITCH SHALL BE FURNISHED TO MAINTAIN ENGINE JACKET WATER TO 90F.
- INSTALLATION SHALL INCLUDE STARTUP AND FOUR-HOUR LOAD-BANK TESTING BY MANUFACTURER-CERTIFIED INSTALLER.
- WARRANTY: MANUFACTURER'S ONE-YEAR WARRANTY.
- PROVIDE EQUIPMENT SUBMITTAL INCLUDING SHOP DRAWINGS, WIRING DIAGRAMS, AND VENDOR'S SELECTION INFO, TO DEMONSTRATE 10% MAXIMUM VOLTAGE DIP.
- PROVIDE OPERATION AND MAINTENANCE AND TRAINING TO OWNER'S REPRESENTATIVE.
- REMOTE ANNUNCIATOR: NFPA 110 COMPLIANT (LEVEL 1).

### AUTOMATIC TRANSFER SWITCH (ATS)

- MANUFACTURERS: THE SUPPLIER OF THE ATS SHALL BE THE SAME AS THAT OF THE ENGINE-GENERATOR SET. BASIS OF DESIGN IS ASCO SERIES 300 GROUP G.
- ATS SHALL BE 3-POLE, SOLID NEUTRAL, OPEN-TRANSITION (BREAK-BEFORE-MAKE), 208V, COMPLIANT WITH REQUIREMENTS OF NFPA 110 FOR LEVEL 1 SYSTEM, CURRENT RATING AS NOTED ON THE PLAN/RISER.
- ATS CURRENT RATING SHALL BE A CONTINUOUS RATING WHEN THE SWITCH IS INSTALLED IN AN ENCLOSURE, AND SHALL CONFORM TO NEMA TEMPERATURE RISE STANDARDS.
- ATS SHALL BE RATED FOR 42,000 AIC, MINIMUM.
- ATS SHALL INCLUDE AN ELECTRONIC CONTROL PANEL, WITH FIELD-ADJUSTABLE SETTINGS, AND PROGRAMMABLE EXCESSRISER.
- ATS SHALL INCLUDE ADJUSTABLE TIME DELAY TO OVERRIDE MOMENTARY NORMAL SOURCE FAILURE PRIOR TO ENGINE START. FIELD PROGRAMMABLE 0-10 SECONDS FACTORY SET AT 3 SECONDS.
- ATS SHALL INCLUDE ADJUSTABLE TIME DELAY ON RETRANSFER TO NORMAL SOURCE, PROGRAMMABLE 0-60 MINUTES FACTORY SET AT 30 MINUTES. IF THE EMERGENCY SOURCE FAILS DURING THE RETRANSFER TIME DELAY, THE TRANSFER SWITCH CONTROLS SHALL AUTOMATICALLY BYPASS THE TIME DELAY AND IMMEDIATELY RETRANSFER TO THE NORMAL POSITION.
- ATS SHALL INCLUDE TIME DELAY ON TRANSFER TO EMERGENCY, PROGRAMMABLE 0-5 MINUTES, FACTORY SET AT 1 SECOND.
- A SET OF CUSTOMER CONTACTS SHALL BE PROVIDED TO INDICATE BOTH EMERGENCY AND NORMAL SOURCE POSITION.
- ATS SHALL BE SUPPLIED WITH ONE-YEAR MANUFACTURER'S WARRANTY.

## CODES AND STANDARDS

NFPA 70	NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE, 2019 EDITION
	FLORIDA FIRE PREVENTION CODE, EIGHTH EDITION.
	FLORIDA BUILDING CODE, EIGHTH EDITION.

## ELECTRICAL LEGEND

	HIGH BAY FIXTURE.
	1 X 4 LIGHTING FIXTURE.
	WALL-MOUNTED LIGHTING FIXTURE LENGTH AS INDICATED WITH EMERGENCY BATTERY PACK.
	STRIP LIGHT.
	RECESSED CAN LIGHTING FIXTURE.
	WALL-MOUNTED LIGHTING FIXTURE.
	POLE-MOUNTED AREA LIGHT.
	LED EXIT SIGN WITH INTEGRAL BATTERY AND INVERTER. PROVIDE UNSWITCHED HOT CONDUCTOR.
	COMBINATION LED EXIT SIGN AND EMERGENCY AREA LIGHT WITH INTEGRAL BATTERY. PROVIDE UNSWITCHED HOT CONDUCTOR.
	LED EXIT LIGHT, SAME AS ABOVE, WALL MOUNTED
	WALL-MOUNTED EMERGENCY LIGHTING FIXTURE, WITH INTEGRAL BATTERY. PROVIDE UNSWITCHED HOT CONDUCTOR.
	120V/20A QUIET-TYPE SNAP SWITCH. SWITCHES SHALL BE MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE. "3" INDICATES 3-WAY SWITCH, "4" INDICATES 4-WAY SWITCH.
	WALL-SWITCH WITH OCCUPANCY SENSOR; MOUNT 48" A.F.F., UNLESS NOTED OTHERWISE. WATSTOPPER #PW-101, OR APPROVED EQUAL.
	ROOM OCCUPANCY SENSOR (LOW-VOLTAGE). UNLESS NOTED OTHERWISE, CEILING MOUNTED WATSTOPPER #OT-300, OR APPROVED EQUAL. PROVIDE ROOM CONTROLLER(S) (#RZ-250) AS REQUIRED.
	2 CHANNEL 24 HOUR/7 DAY PROGRAMMABLE ASTRONOMICAL TIME CLOCK (WITH BATTERY BACKUP) AS MANUFACTURED BY TORK OR APPROVED EQUAL. PROVIDE CONTACTOR(S) AS REQUIRED TO SERVE ALL CIRCUITS SHOWN.
	20A/120V DUPLEX RECEPTACLE. MOUNT AT 18" A.F.F., UNLESS NOTED OTHERWISE. "USB" INDICATES INTEGRAL DUAL USB CHARGING PORTS.
	20A/120V DUPLEX RECEPTACLE. MOUNT AT 48" A.F.F., UNLESS NOTED OTHERWISE.
	120V/20A QUAD RECEPTACLE. NEW RECEPTACLES SHALL BE MOUNTED 18" A.F.F., UNLESS NOTED OTHERWISE.
	240V/30A DRYER RECEPTACLE WITH 3/4" C.-3 #10, #10 GND, TO PANEL.
	120V/20A DUPLEX RECEPTACLE, WITH INTEGRAL GFI PROTECTION. RECEPTACLES SHALL BE MOUNTED 18" A.F.F., UNLESS NOTED OTHERWISE. "WP" INDICATES CAST-ALUMINUM WEATHERPROOF IN USE COVER.
	120V/20A DUPLEX RECEPTACLE, WITH INTEGRAL GFI PROTECTION. RECEPTACLES SHALL BE MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE.
	240V/50A RANGE RECEPTACLE WITH 1" C.-3 #6, #10 GND, TO PANEL.
	PROVIDE JUNCTION.
	ENCLOSED SAFETY SWITCH NON-FUSED, RATING AND CIRCUITING AS INDICATED ON THE PLANS. FIELD-LOCATE TO ASSURE 36" FRONT CLEARANCE.
	ENCLOSED SAFETY SWITCH FUSED, RATING AND CIRCUITING AS INDICATED ON THE PLANS. FIELD-LOCATE TO ASSURE 36" FRONT CLEARANCE.
	MOTOR RATED 20A SNAP SWITCH FOR DISCONNECT MEANS.
	ELECTRICAL PANEL. SEE RISER PANEL SCHEDULES.
	CIRCUIT CONDUCTORS IN CONDUIT OR CABLE. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. 120V CIRCUIT HOMERUNS LONGER THAN 100FT SHALL BE #10 AWG, MINIMUM. PROVIDE DEDICATED GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. MC CABLE ALLOWED IN CONCEALED LOCATIONS, WHERE ALLOWED BY CODE.
	CONDUCTORS IN CONDUIT, CONCEALED IN WALLS, CEILING, OR BELOW GRADE. HOMERUN TO PANEL INDICATED.
	CEILING-MOUNTED EXHAUST FAN. COORDINATE WITH MECHANICAL.
	ELECTRIC MOTOR.
	AUTOMATIC TRANSFER SWITCH.
	GENERATOR ANNUNCIATOR PANEL.
	EMERGENCY POWER OFF PUSH BUTTON.
	ROLLING DOOR CONTROL UP/DOWN/STOP. FURNISHED WITH ROLLING DOOR. COORDINATE INSTALLATION WITH MANUFACTURER'S RECOMMENDATIONS.
	FIRE ALARM SYSTEM DUCT SMOKE DETECTOR, WITH REMOTE INDICATOR AND SHUTDOWN RELAY. FIELD COORDINATE LOCATION WITH MECHANICAL INSTALLER.
	FIRE ALARM SYSTEM SMOKE DETECTOR
	FIRE ALARM SYSTEM MANUAL PULL STATION MOUNT AT 48" A.F.F.
	FIRE ALARM SYSTEM HORN/STROBE DEVICE. MOUNT 84" A.F.F. 75/110 CANDELA FIELD-SELECTABLE, UNLESS NOTED OTHERWISE.
	FIRE ALARM SYSTEM STROBE DEVICE. MOUNT 84" A.F.F. 75/110 CANDELA FIELD-SELECTABLE, UNLESS NOTED OTHERWISE.
	FIRE ALARM SYSTEM TAMPER SWITCH.
	FIRE ALARM SYSTEM FLOW SWITCH.
	FIRE ALARM CONTROL PANEL.
	COMMUNICATIONS OUTLET, MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE DEVICE BOX, WITH 3/4" C. STUBBED INTO ACCESSIBLE CEILING SPACE. PROVIDE (2) CAT-6 CABLES TO TELCOM BACKBOARD.
	COMMUNICATIONS OUTLET, MOUNTED ABOVE WORK SURFACE (44" A.F.F. UNLESS NOTED OTHERWISE). PROVIDE DEVICE BOX, WITH 3/4" C. STUBBED INTO ACCESSIBLE CEILING SPACE. PROVIDE (2) CAT-6 CABLES TO TELCOM BACKBOARD. WHERE "TV" IS INDICATED, ALSO PROVIDE RG6 CABLING TO TELCOM BACKBOARD.
	COMMUNICATIONS BACKBOARD.
	<u>ABBREVIATIONS</u> EWC ELECTRIC WATER COOLER. WP WEATHERPROOF.



877 CR 393 North  
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GLENDALE FIRE STATION  
 BOARD OF COUNTY COMMISSIONERS  
 WALTON COUNTY  
 FLORIDA

SEAL

NOT FOR CONSTRUCTION

SCALE: AS NOTED

APPLIED RESEARCH AND DESIGN, INC.

2623 S. BLAIR STONE ROAD  
TALLAHASSEE, FL 32301  
FL CA8948  
JAMES M. LAMB, PE#52688  
Tel: (850) 668-6324 -- E-mail: jmlamb@ard-eng.com

### REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY	MRC
APPROVED BY	JML
CHECKED BY	JML
DATE	4 MARCH, 2024

TITLE

## ELECTRICAL LEGEND & NOTES

PROJECT NO. 50150622

# E0.1

SHEET NO.







SEAL

NOT FOR CONSTRUCTION

SCALE: AS NOTED

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REVISIONS

NO.	DESCRIPTION	DATE

NO. DESCRIPTION DATE

DRAWN BY \_\_\_\_\_ MRC  
APPROVED BY \_\_\_\_\_ JML  
CHECKED BY \_\_\_\_\_ JML  
DATE \_\_\_\_\_ 4 MARCH, 2024

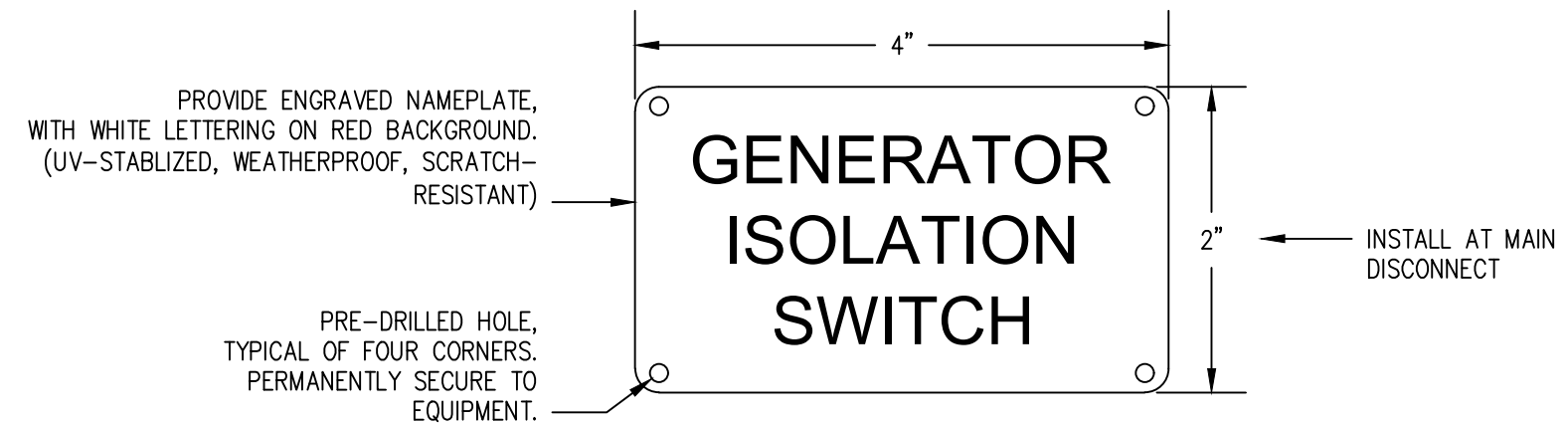
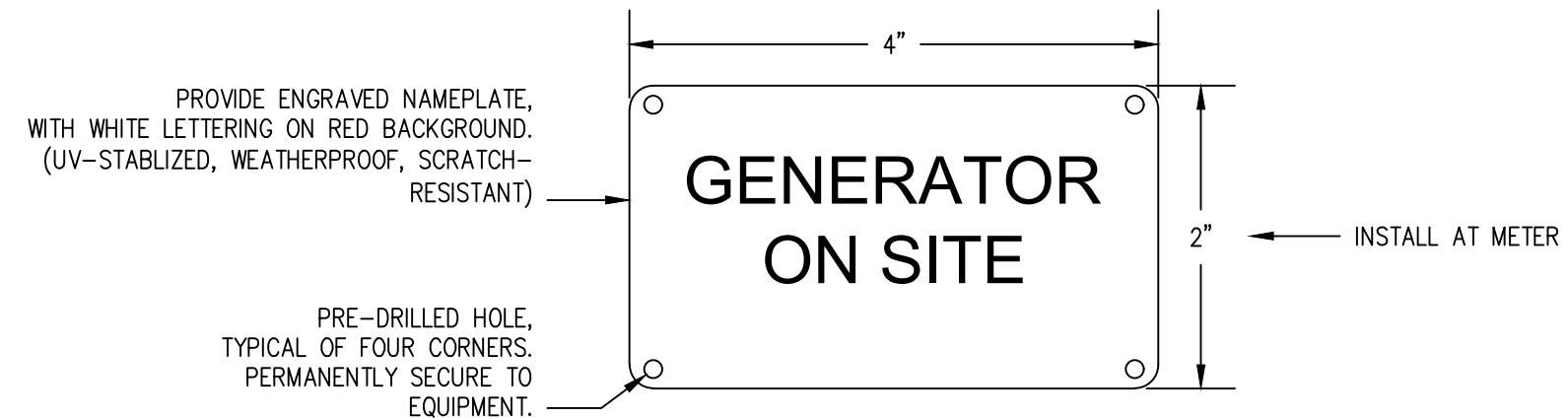
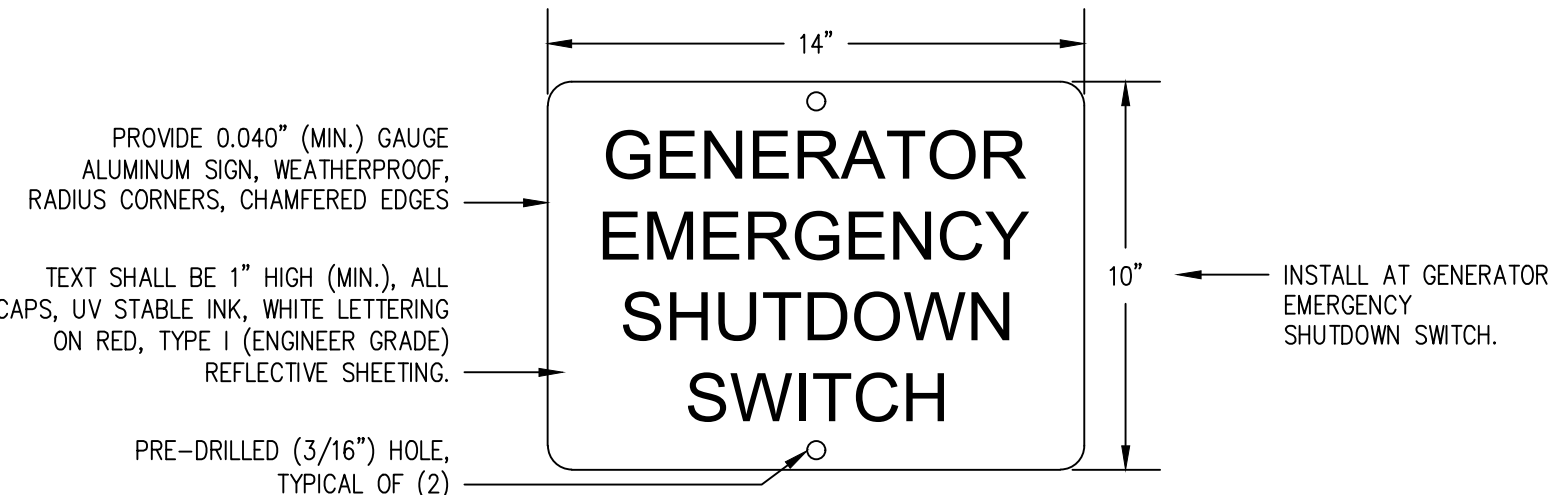
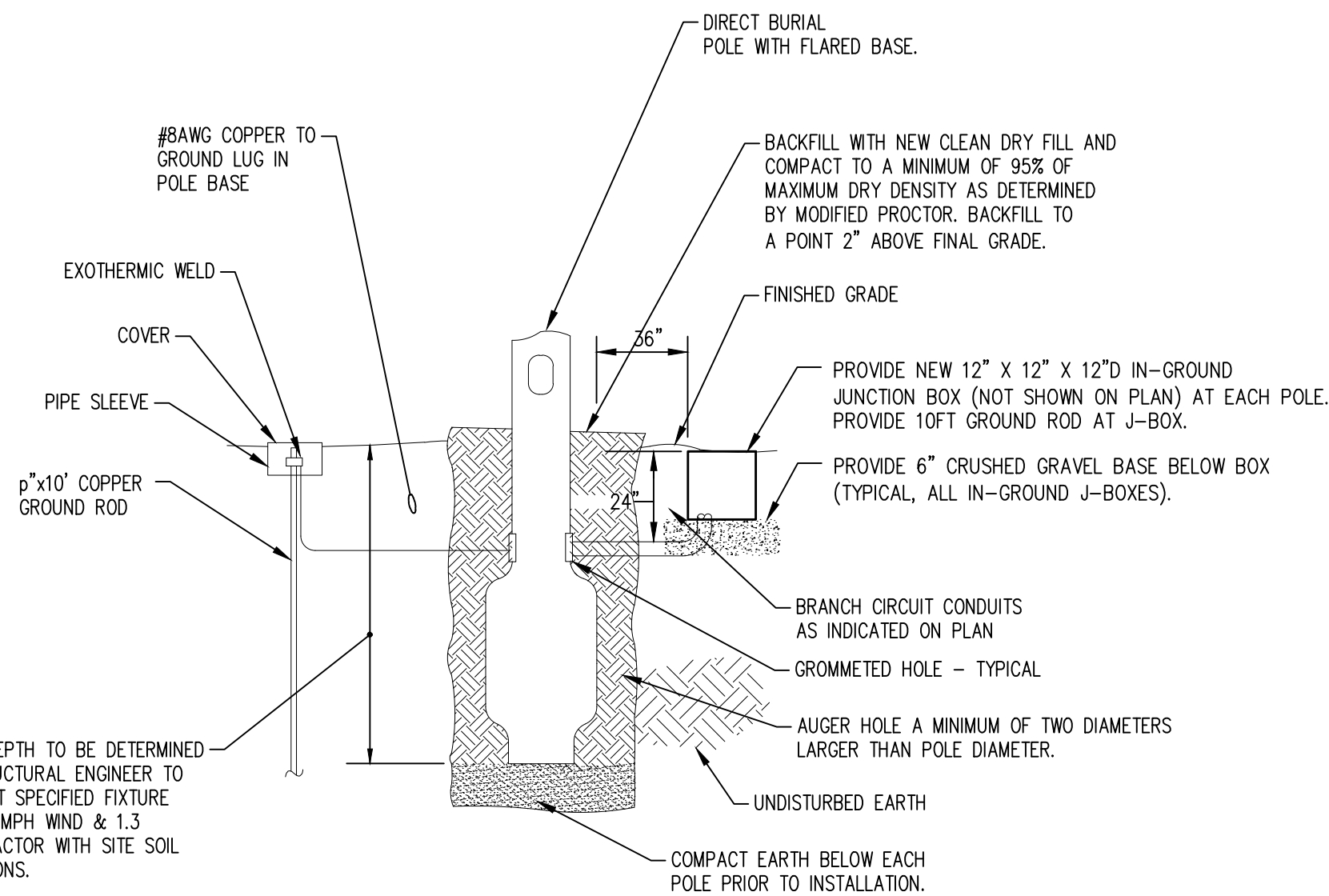
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**ELECTRICAL  
DETAILS**

PROJECT NO. 50150622

**E0.3**

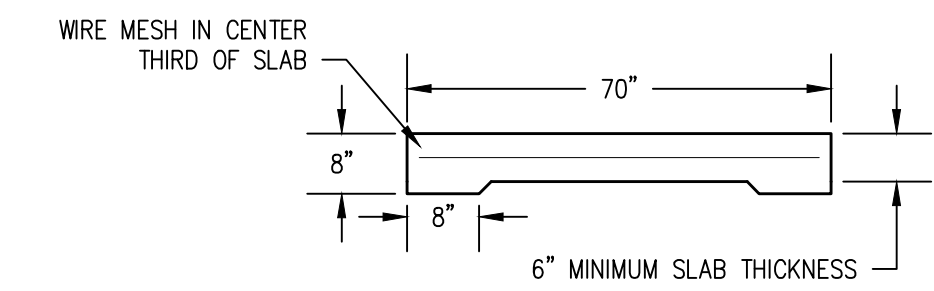
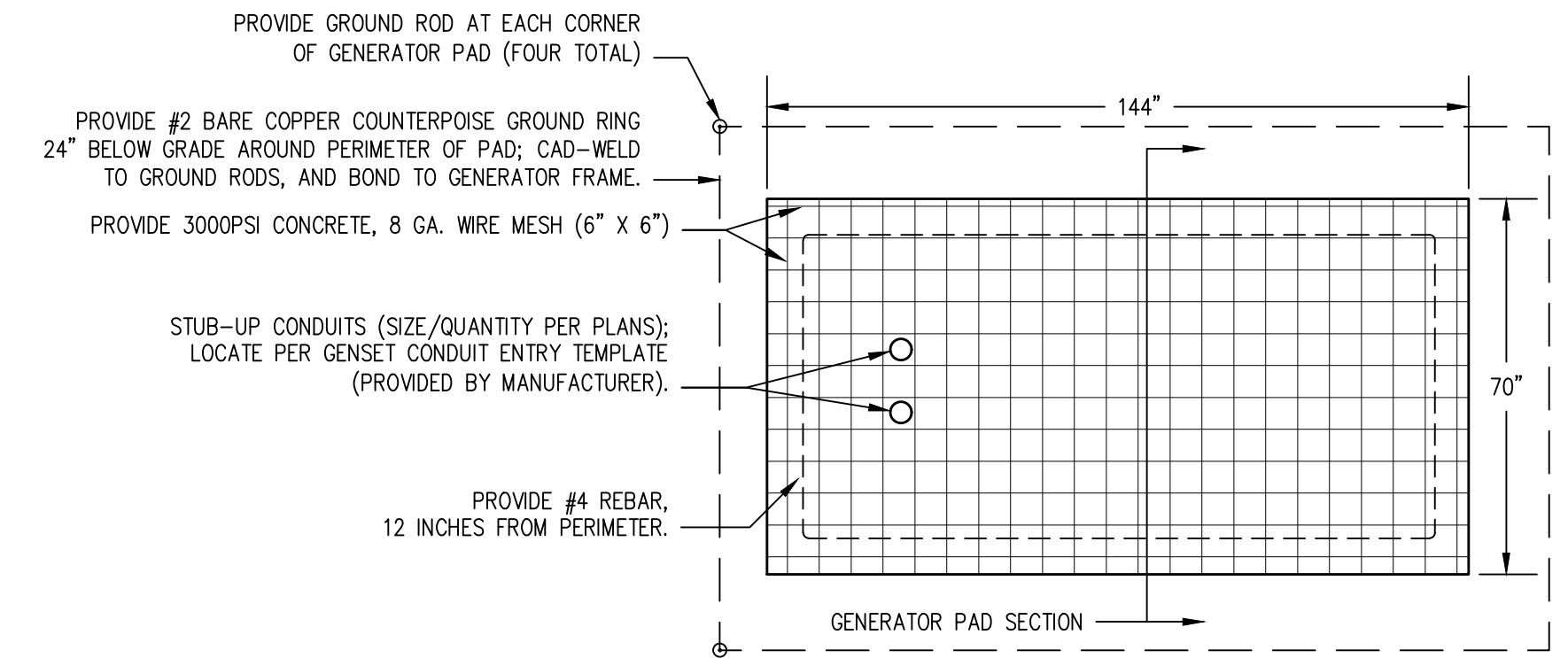
SHEET NO.



- GENERAL SIGN NOTES:**
- SEE PLANS, ELEVATION, AND RISER FOR SIGN LOCATIONS.
  - PROVIDE ATTACHMENT MEANS AS NECESSARY TO PERMANENTLY AND SECURELY ATTACH SIGN TO EQUIPMENT.

**GENERATOR SIGN DETAILS**

NO SCALE



- NOTES:**
- LEVEL AND COMPACT SITE AS MAY BE REQUIRED PRIOR TO FORMING PAD. GRADE TO ASSURE PAD DOES NOT CREATE DRAINAGE ISSUES.
  - ANCHOR BOLTS SHALL BE CAST INTO SURFACE OF PAD; SIZE, QUANTITY, AND LOCATION OF ANCHOR BOLTS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

Lighting Fixture Schedule					
TYPE	DESCRIPTION	MNFR/SUPPLIER	MODEL #	LAMPS	NOTES
A	4 FT LED SURFACE WRAP AROUND	H.E. WILLIAMS OR EQUAL	39-4-L52/840-A-DIM-UNV	37.2W LED	
B	4 FT LED LENSED STRIP	H.E. WILLIAMS OR EQUAL	76R-4-L52/840-DIM-UNV	35.8W LED	
C	4 FT LED WALL MOUNT WRAP AROUND	H.E. WILLIAMS OR EQUAL	76R-4-L52/840-DIM-UNV	35.8W LED	PROVIDE 10W EMERGENCY BATTERY BACKUP WHERE INDICATED
D	LED HIGH BAY	H.E. WILLIAMS OR EQUAL	GH-2-L240/840-FA-DIM-UNV	176.8W LED	MOUNT 18'-0" AFF
E1	WHITE THERMOPLASTIC LED EXIT LIGHT	CHLORIDE OR EQUAL	VERWEM	WITH UNIT	
E2	WHITE THERMOPLASTIC LED EMERGENCY/EXIT LIGHT COMBO	CHLORIDE OR EQUAL	VLTCR3R	WITH UNIT	
EM	EMERGENCY BATTERY LIGHT UNIT	CHLORIDE OR EQUAL	CLU2-N-W	WITH UNIT	MOUNT 7'-6" AFF
F1	LED WALL PACK	H.E. WILLIAMS OR EQUAL	VWP-V-L60-740-T3-DBZ-CGL-DIM-UNV	70W LED	MOUNT 17'-0" AFF
F2	LED WALL PACK	H.E. WILLIAMS OR EQUAL	VWM-L20-740-T3-DBZ-CGL-DIM-UNV	25W LED	MOUNT 8'-0" AFF
G	LED SLIM SURFACE DOWN LIGHT	LIGHTTOUER OR EQUAL	S7R-840-10	14.4W LED	
P1	LED POLE MOUNTED AREA LIGHT	GARDCO OR EQUAL	ECF-S-32L-700-NW-G2-AR-4-UNV	73W LED	PROVIDE DIRECT BURY FIBERGLASS POLE, FIXTURE MOUNTING HEIGHT 20 FT AFF, 130MPH WIND LOAD
R1	GROUND MOUNTED FLAG POLE LIGHT	GARDCO OR EQUAL	DFCS SP 1200 CW-G2-UNV-BK	62W LED	PROVIDE NECESSARY MOUNTING HARDWARE AND FIELD ADJUST AIM

- NOTES:**
- VERIFY ALL CEILING FINISHES, FIXTURE TRIMS, AND VOLTAGES PRIOR TO ORDERING AND PROVIDE AS REQUIRED.
  - FIXTURES SHOWN ARE BASIS OF DESIGN; FIXTURES OF SIMILAR STYLE, PERFORMANCE, AND ELECTRICAL CHARACTERISTICS THAT ARE ACCEPTABLE TO THE OWNER AND ENGINEER WILL BE ALLOWED.
  - PROVIDE ALL LOW-VOLTAGE WIRING AS REQUIRED, FOR DIMMING AND CONTROLS.
  - PROVIDE LAMPS/BALLASTS/DRIVERS WITH ALL FIXTURES.
  - PROVIDE ALL BOXES, BACKBOXES, SUPPORTS, FEEDS, TRIMS, STEMS, ROUGH-INS AND BLOCKING AS MAY BE REQUIRED FOR INSTALLATION.
  - PROVIDE FIRE RATED BOXES OR OTHER MEANS TO MAINTAIN RATED CEILINGS WHERE RECESSED FIXTURES ARE USED.









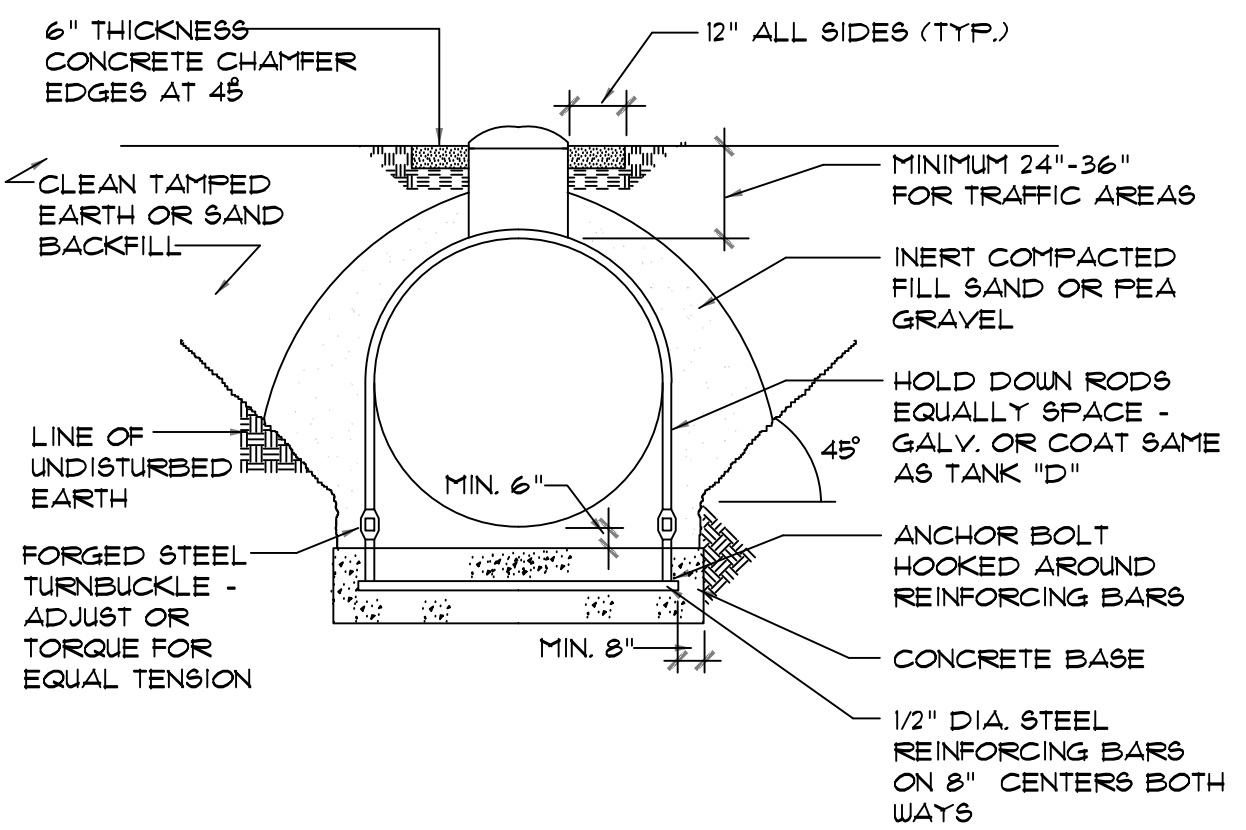








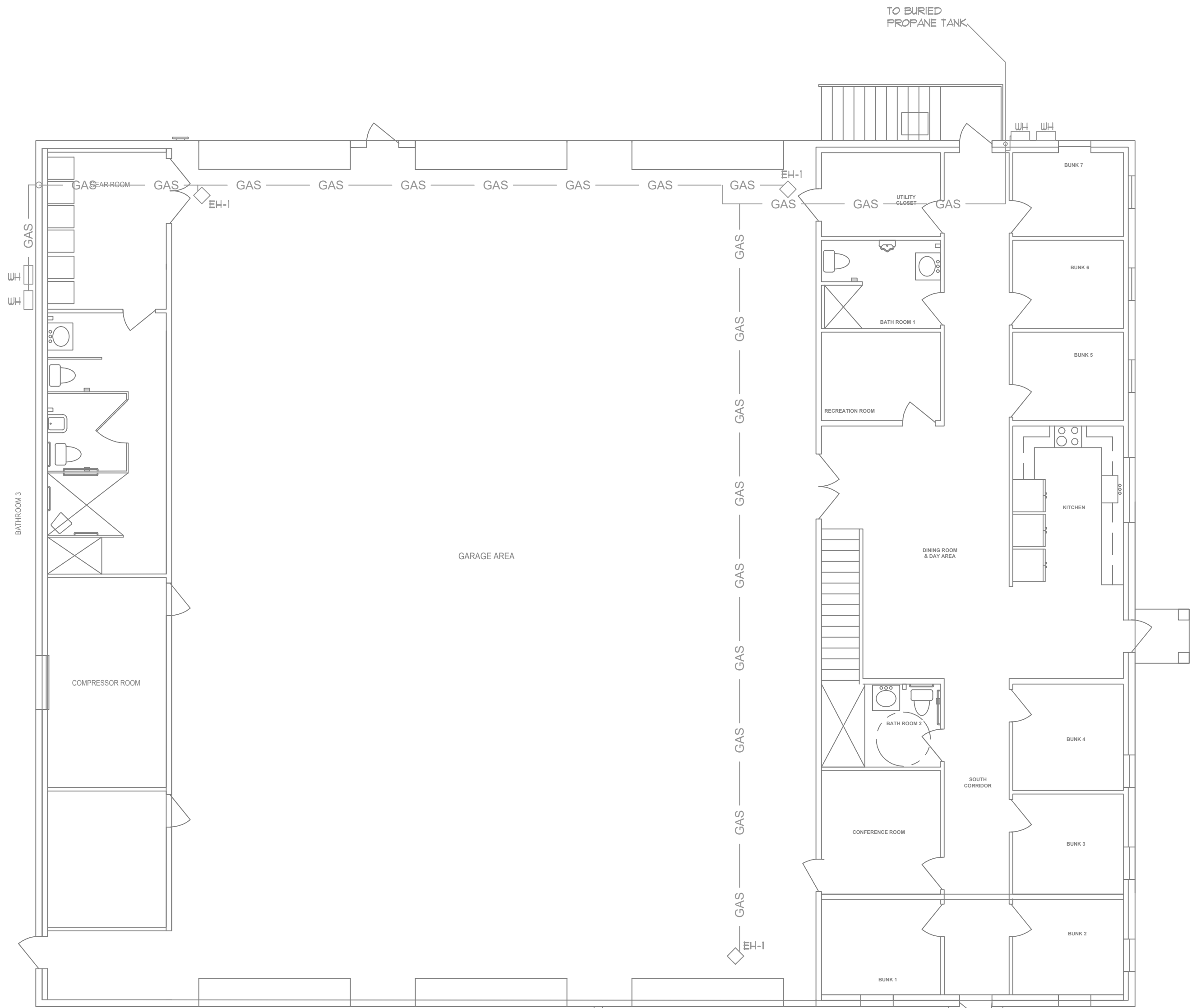




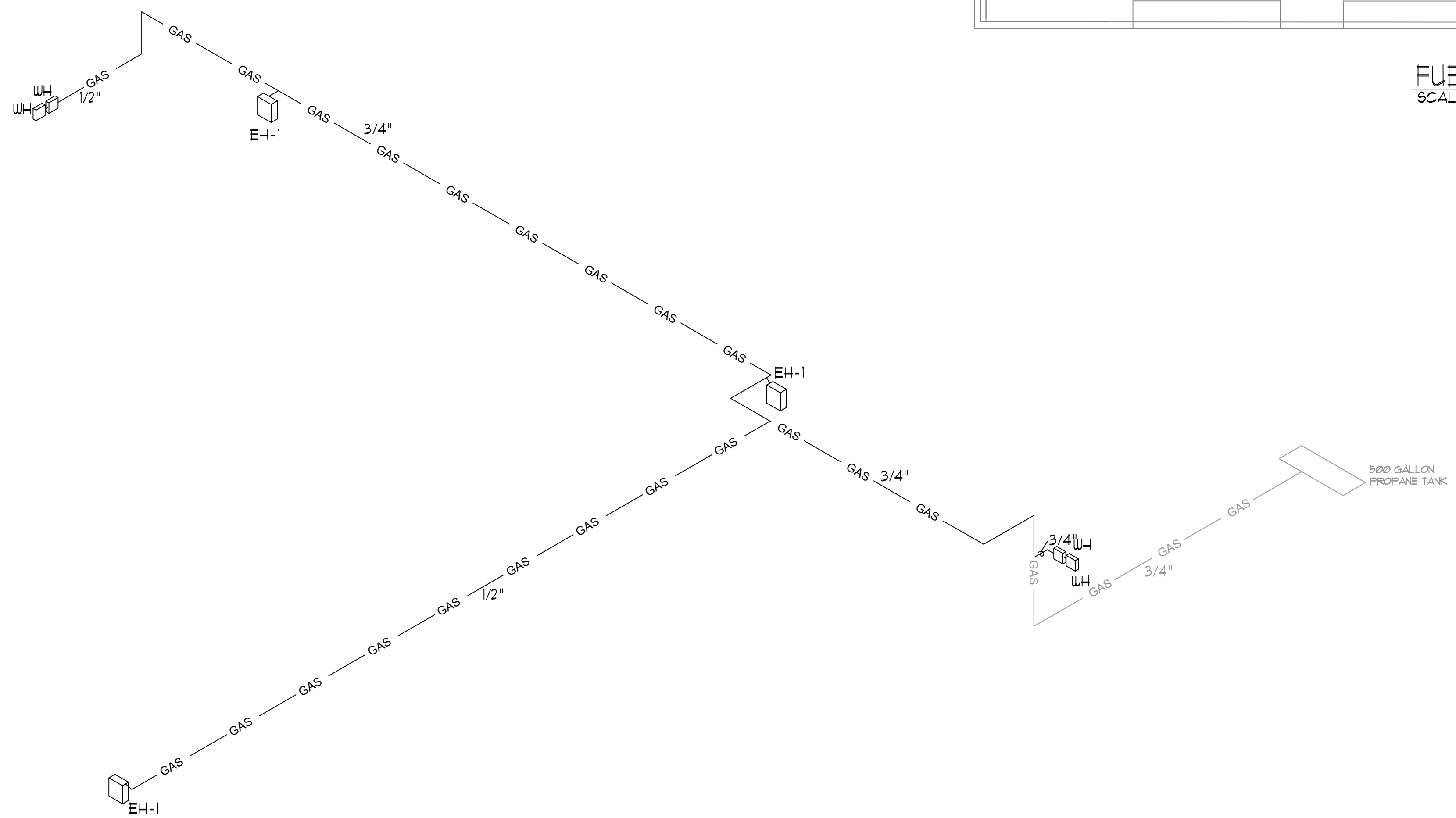
EXISTING TANK IS AN UNDERGROUND TANK. RE-APPLY PROTECTIVE COATING TO TANK WITH APPROVED COATING.

**UNDERGROUND LP GAS TANK**  
N.T.S.

- GAS NOTES:**
1. GENERAL
    - A. INSTALL GAS PIPING, APPLIANCES, AND SPECIALTIES IN ACCORDANCE WITH INTERNATIONAL FUEL GAS CODE 2009, NFPA-54.
    - B. CLEARANCES: UNDERGROUND GAS PIPING SHALL BE INSTALLED WITH SUFFICIENT CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE TO AVOID CONTACT THEREWITH, TO ALLOW MAINTENANCE, AND TO PROTECT AGAINST DAMAGE FROM PROXIMITY TO OTHER STRUCTURES. IN ADDITION, UNDERGROUND PLASTIC PIPING SHALL BE INSTALLED WITH SUFFICIENT CLEARANCE OR SHALL BE INSULATED FROM ANY SOURCE OF HEAT SO AS TO PREVENT THE HEAT FROM IMPAIRING THE SERVICEABILITY OF THE PIPE.
    - C. COVER REQUIREMENTS: UNDERGROUND PIPING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF 18"(460MM) OF COVER WHERE EXTERNAL DAMAGE TO THE PIPE IS NOT LIKELY TO RESULT. THE MINIMUM COVER SHALL BE 12"(300MM) WHERE A MINIMUM OF 12"(300MM) OF COVER CANNOT BE PROVIDED, THE PIPE SHALL BE INSTALLED IN CONDUIT OR BRIDGED/SHEATHED.
    - D. THROUGH FOUNDATION WALL UNDERGROUND PIPING WHERE INSTALLED THROUGH THE OUTER FOUNDATION OR BASEMENT WALL OF A BUILDING, SHALL BE ENCASED IN A PROTECTIVE PIPE. THE SPACE BETWEEN THE GAS PIPING AND THE BUILDING SHALL BE SEALED TO PREVENT ENTRY OF GAS OR WATER.
    - E. PIPING UNDERGROUND BENEATH BUILDINGS WHERE THE INSTALLATION OF GAS PIPING UNDERGROUND BENEATH BUILDINGS IS UNAVOIDABLE, THE PIPING SHALL BE ENCASED IN AN APPROVED CONDUIT DESIGNED TO WITHSTAND THE SUPERIMPOSED LOADS. THE CONDUIT SHALL EXTEND INTO A NORMALLY USABLE AND ACCESSIBLE PORTION OF THE BUILDING AND, AT THE POINT WHERE THE CONDUIT TERMINATES IN THE BUILDING, THE SPACE BETWEEN THE CONDUIT AND THE GAS PIPING SHALL BE SEALED TO PREVENT THE POSSIBLE ENTRANCE OF ANY GAS LEAKAGE WHERE THE END SEALING IS OF A TYPE THAT WILL RETAIN THE FULL PRESSURE OF THE PIPE. THE CONDUIT SHALL BE DESIGNED FOR THE SAME PRESSURE AS THE PIPE. THE CONDUIT SHALL EXTEND AT LEAST 4"(100MM) OUTSIDE THE BUILDING, BE VENTED ABOVE GRADE TO THE OUTSIDE, AND BE INSTALLED SO AS TO PREVENT THE ENTRANCE OF WATER AND INSECTS.
    - F. CONNECTION OF PLASTIC PIPING: PLASTIC PIPE SHALL BE INSTALLED OUTSIDE, UNDERGROUND ONLY.
    - G. CONNECTIONS BETWEEN METALLIC AND PLASTIC PIPING: CONNECTIONS MADE OUTSIDE AND UNDERGROUND BETWEEN METALLIC AND PLASTIC PIPING SHALL BE MADE ONLY WITH ASTM D 2513 STANDARD SPECIFICATION FOR THERMOPLASTIC GAS PRESSURE PIPE, TUBING, AND FITTINGS, CATEGORY 1 TRANSITION FITTINGS.
    - H. HANGERS, SUPPORTS, AND ANCHORS: PIPING SHALL BE SUPPORTED WITH PIPE HOOKS, METAL PIPE STRAPS, BANDS, BRACKETS, OR HANGERS SUITABLE FOR THE SIZE OF PIPING, OF ADEQUATE STRENGTH AND QUALITY, AND LOCATED AT INTERVALS SO AS TO PREVENT OR DAMP OUT EXCESSIVE VIBRATION. PIPING SHALL BE ANCHORED TO PREVENT UNDE STRAINS ON CONNECTED EQUIPMENT AND SHALL NOT BE SUPPORTED BY OTHER PIPING. PIPE HANGERS AND SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF ANSI/MSS SP-58. PIPE HANGERS AND SUPPORTS-MATERIALS, DESIGN AND MANUFACTURE.
    - I. OTHER OCCUPANCIES: IN OTHER THAN INDUSTRIAL OCCUPANCIES AND WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION, GAS PIPING EMBEDDED IN CONCRETE FLOOR SLABS CONSTRUCTED WITH PORTLAND CEMENT SHALL BE SURROUNDED WITH A MINIMUM OF 1"(25MM) OF CONCRETE AND SHALL NOT BE IN PHYSICAL CONTACT WITH OTHER METALLIC STRUCTURES SUCH AS REINFORCING RODS OR ELECTRICALLY NEUTRAL CONDUCTORS. ALL PIPING, FITTINGS, AND RISERS SHALL BE PROTECTED AGAINST CORROSION IN ACCORDANCE WITH NFPA-54. PIPING SHALL NOT BE EMBEDDED IN CONCRETE SLABS CONTAINING QUICKSET ADDITIVES OR CINDER AGGREGATE.
    - J. EACH OUTLET, INCLUDING A VALVE, SHALL BE CLOSED GAS TIGHT WITH A THREADED PLUG OF CAP IMMEDIATELY AFTER INSTALLATION AND SHALL BE LEFT CLOSED UNTIL THE GAS UTILIZATION EQUIPMENT IS CONNECTED THERETO. WHEN EQUIPMENT IS DISCONNECTED FROM AN OUTLET AND THE OUTLET IS NOT TO BE USED AGAIN IMMEDIATELY, IT SHALL BE CLOSED GAS TIGHT.
    - K. EMERGENCY SHUTOFF VALVES: AN EXTERIOR SHUTOFF VALVE TO PERMIT TURNING OFF THE GAS TO EACH LEG SERVING THE GRIDDLE TABLES. THE EMERGENCY SHUTOFF VALVES SHALL BE PLAINLY MARKED AS SUCH AND THEIR LOCATIONS POSTED AS REQUIRED BY THE AHJ.



**FUEL GAS PLAN**  
SCALE: 1/4" = 1'-0"



**FUEL GAS RISER**  
SCALE: N.T.S.

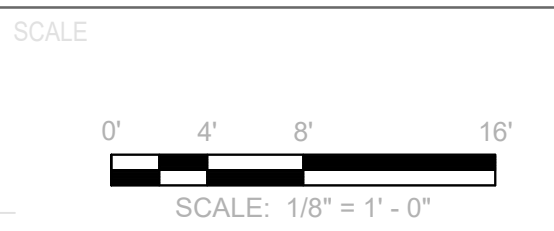
GAS LOAD:		BTUH
TANKLESS WATER HEATER 193,000 # 4		796,000
EH-1 GAS HEATERS		90,000
<b>TOTAL</b>		<b>886,000</b>

UNDILUTED PROPANE  
SIZING BASED ON 200 FT. EQUIVALENT LENGTH WITH METAL (Ø F8) WITH 3 PSI PRESSURE DROP. 150 SPECIFIC GRAVITY, TABLE 400.4(3). PIPE SIZING IS BETWEEN FIRST STAGE HIGH PRESSURE REGULATOR AND SECOND STAGE LOW PRESSURE REGULATOR. PROVIDE REGULATOR AT EACH APPLIANCE AS REQUIRED. REFER TO MANUFACTURER'S DATA. UNDERGROUND PIPING SHALL BE MADE OF CORROSION RESISTANT MATERIAL WITH A FACTORY APPLIED ELECTRICALLY INSULATING COATING. PIPE SHALL HAVE A CATHODIC PROTECTION SYSTEM INSTALLED AND MAINTAINED AND MONITORED. PIPE SHALL BE BURIED MINIMUM OF 12" BELOW GRADE. PLASTIC PIPE TO HAVE A COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR.

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850-894-5376  
FL 062006

ROBIN WINTON, P.E. 56206

PRELIMINARY



REVISIONS		
NO.	DESCRIPTION	DATE

DRAWN BY: RPW  
APPROVED BY: RPW  
CHECKED BY: RPW  
DATE: AUGUST 2023

**FUEL GAS PLAN**

PROJECT NO. 50150622

**FG1.0**

SHEET NO.

ROBIN WINTON, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 56206. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ROBIN WINTON ON THE DATE INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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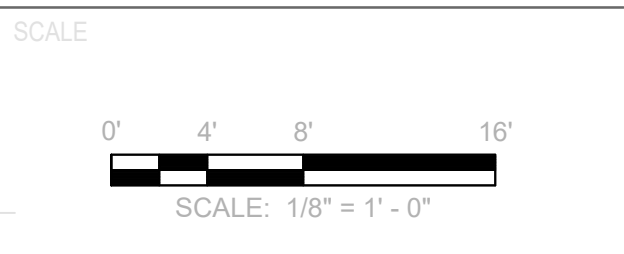




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PRELIMINARY



REVISIONS

NO.	DESCRIPTION	DATE

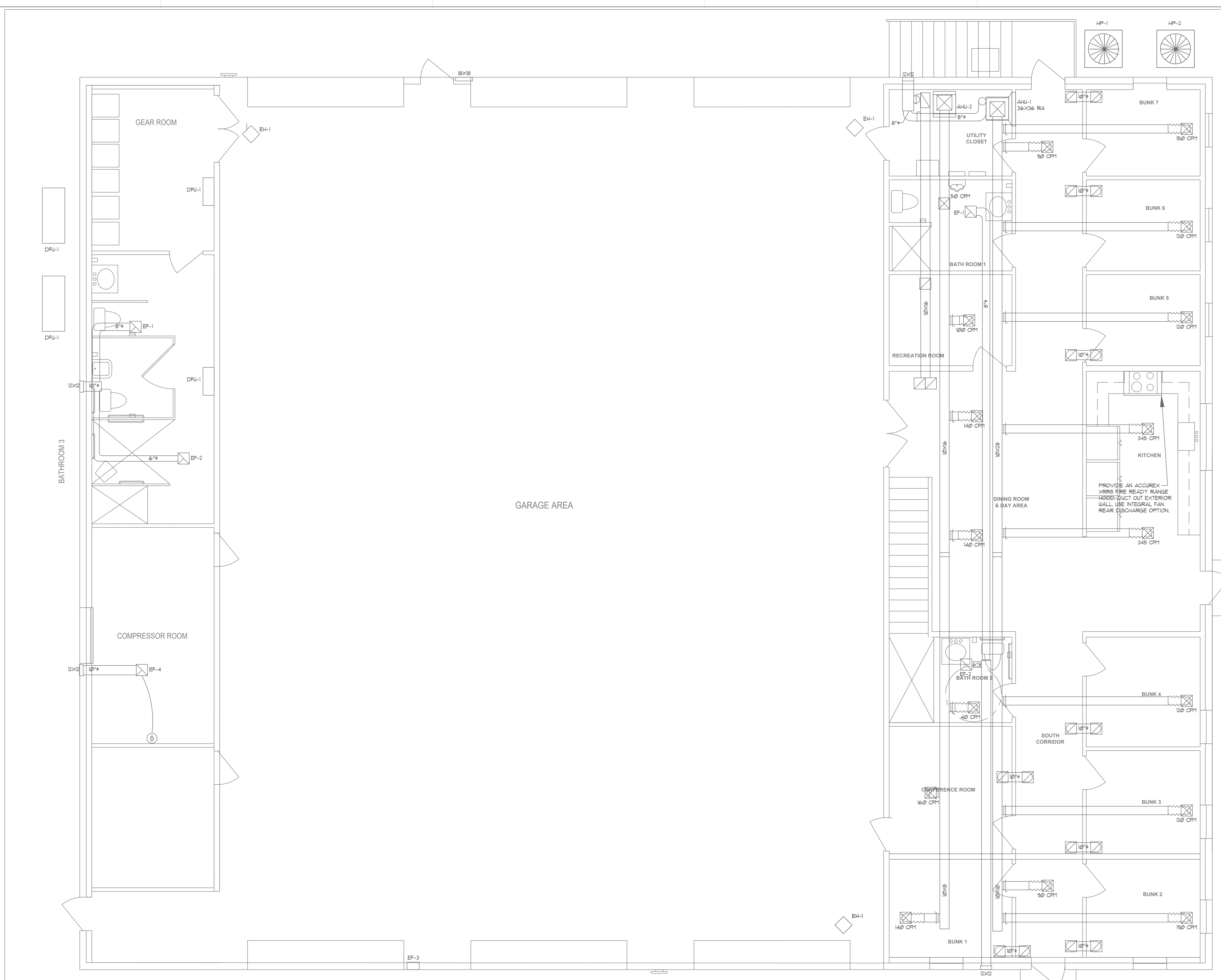
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APPROVED BY \_\_\_\_\_ RPW  
CHECKED BY \_\_\_\_\_ RPW  
DATE \_\_\_\_\_ AUGUST 2023

TITLE  
**MECHANICAL PLAN**

PROJECT NO. \_\_\_\_\_ 50150622

**M2.0**

SHEET NO.



**MECHANICAL PLAN**  
SCALE: 1/4" = 10"

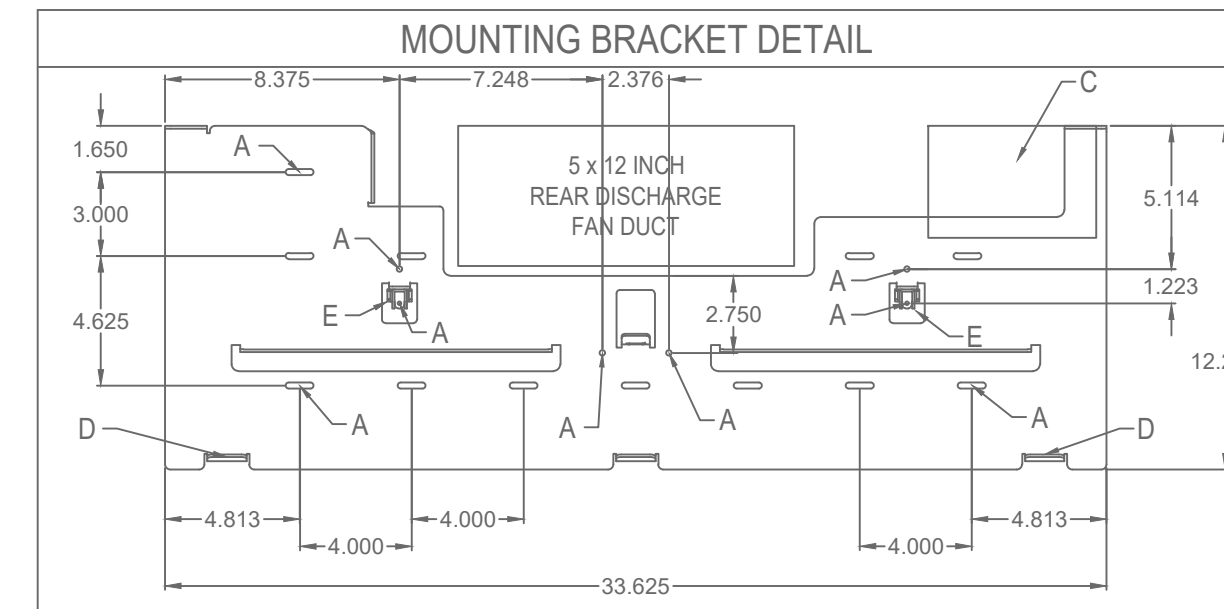
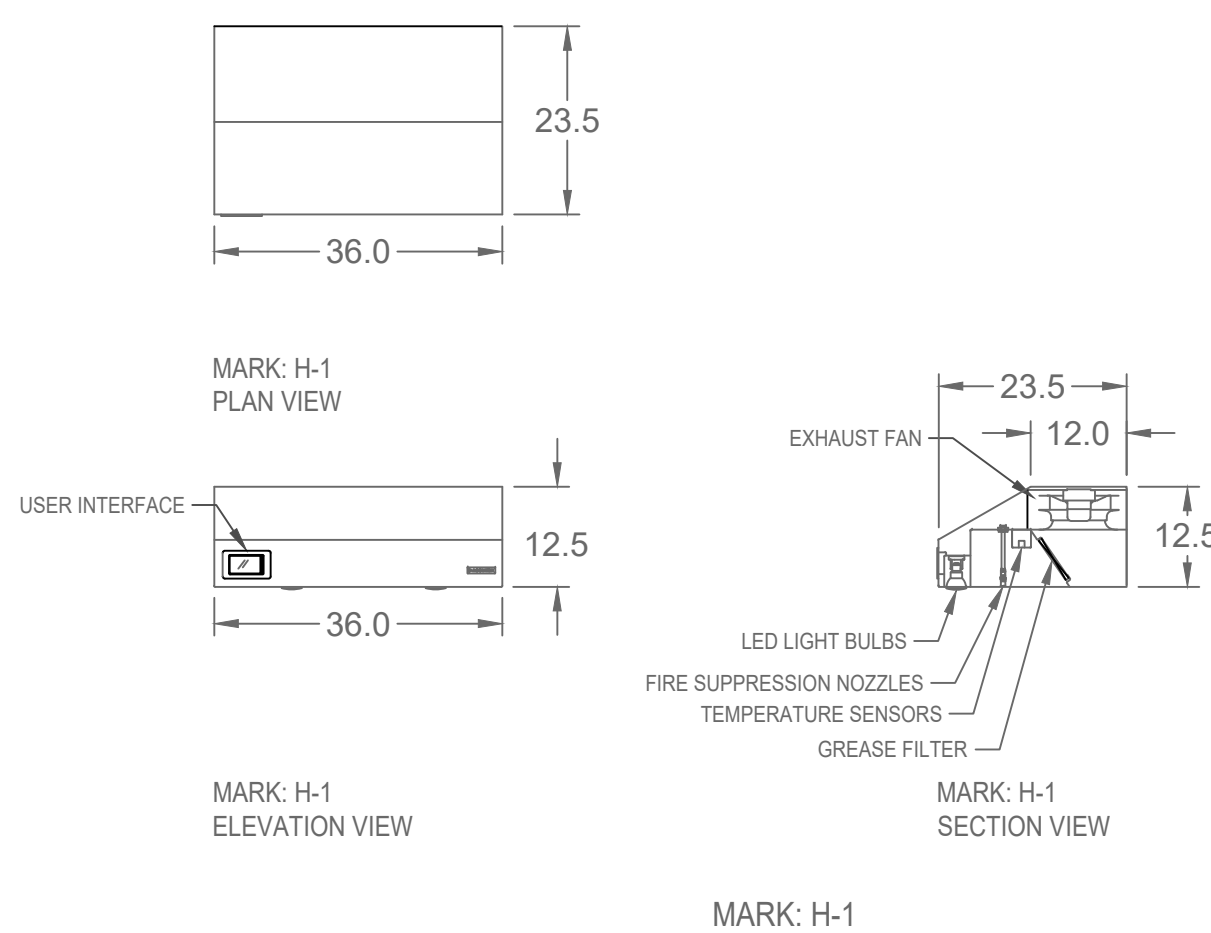
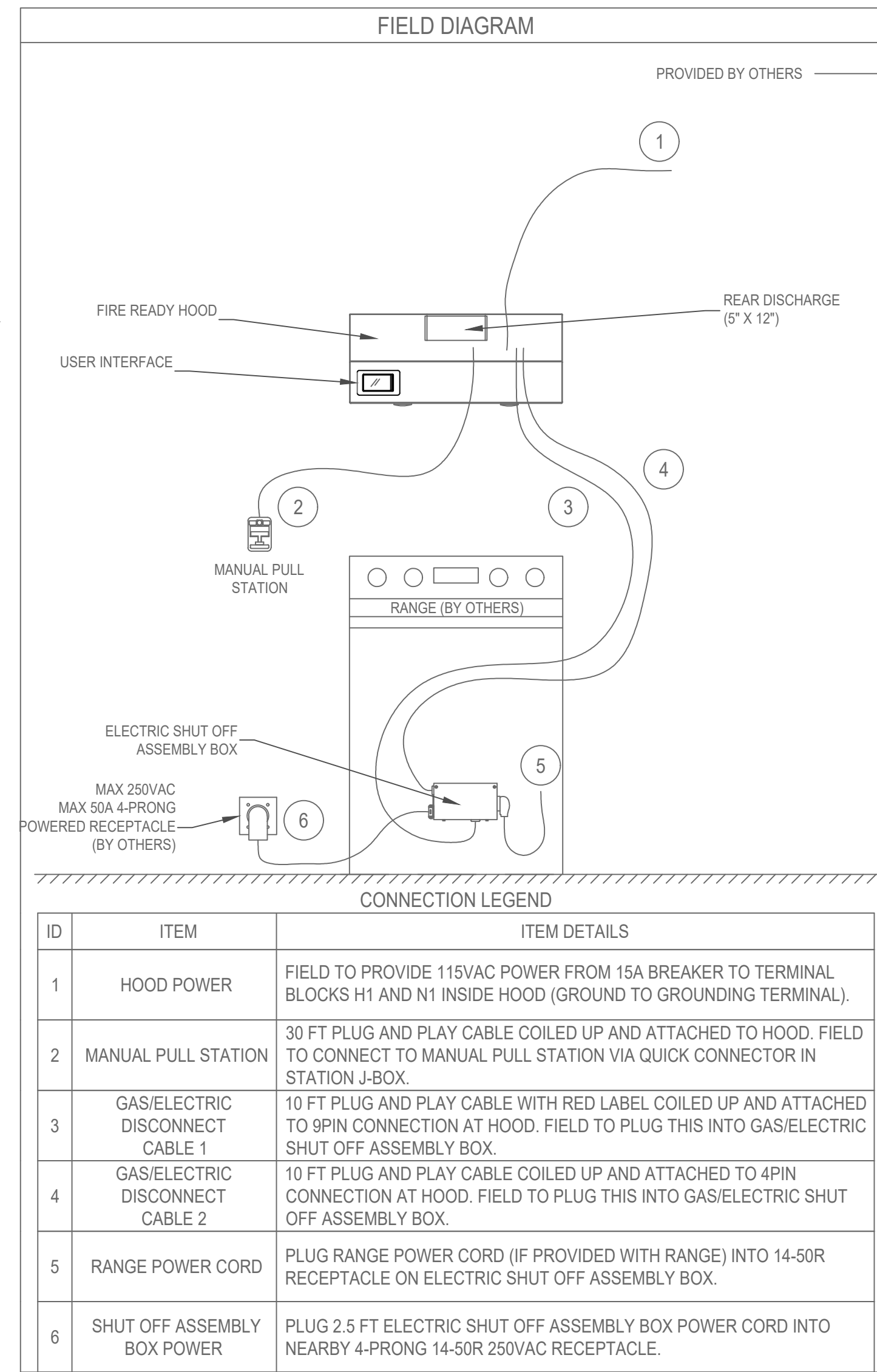
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HOOD INFORMATION										EXHAUST			VENTILATION INFORMATION			TOTAL WEIGHT (LBS.)
QTY.	MARK	MODEL	CONFIGURATION	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	CFM	INLET SOUND SONES	DBA	COLLAR		VENTILATION STYLE	FAN TYPE		
				LENGTH	WIDTH	HEIGHT					DIA. (IN.)	S.P.				
1	H-1	XRRS	WALL	36	TOP 12.0 BOT 23.5	FRT 6.00 BCK 12.5	300 SERIES SS WHERE EXPOSED	500	10	61.2			INTEGRAL FAN - REAR DISCHARGE	INTEGRAL	93	

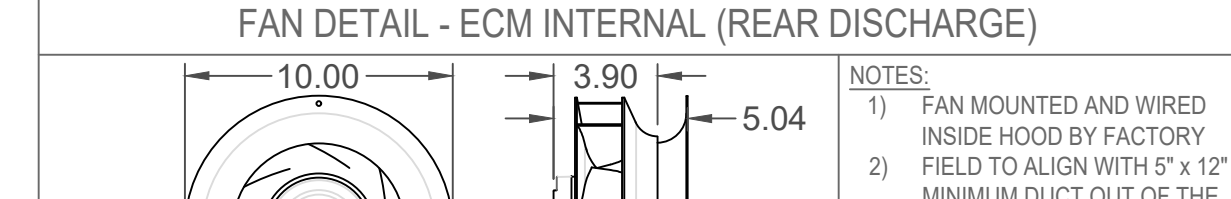
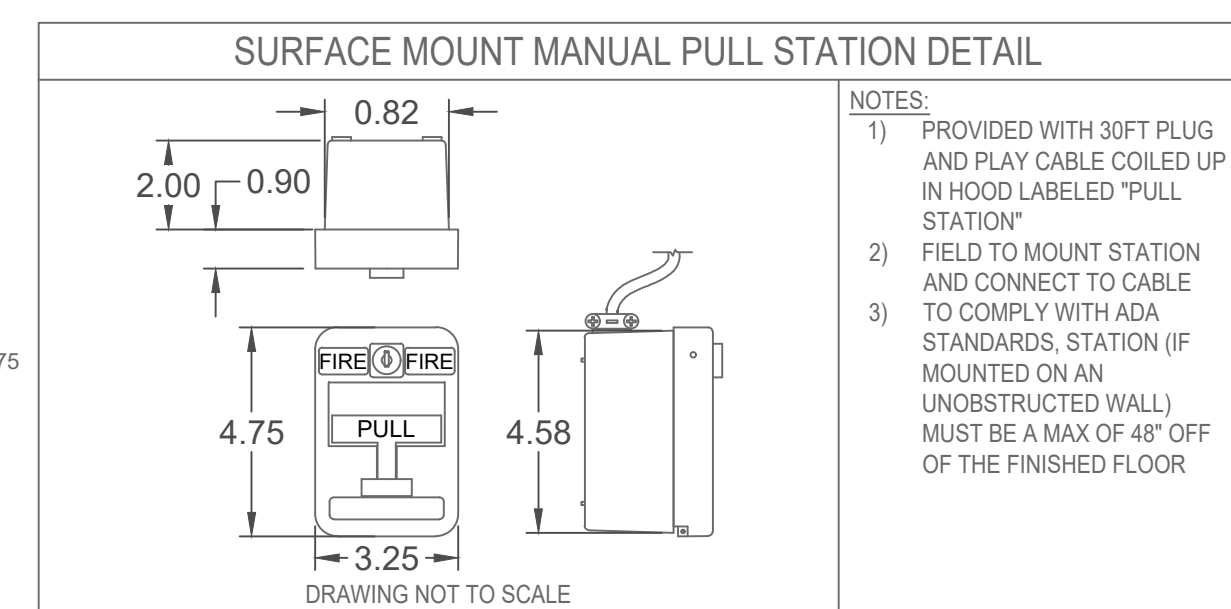
HOOD INFORMATION										DISCONNECTS FOR APPLIANCE			LIGHTING DETAILS		USER INTERFACE	
QTY.	MARK	HOOD AND FAN POWER				ELECTRIC				GAS VALVE SIZE (IN.)	FIXTURE TYPE BULB / LAMP INFO	QTY	TYPE	LOCATION		
		VOLT	PHASE	BREAKER OPERATING SIZE (AMPS)	CURRENT (AMPS)	RECPCT.	VOLT	PHASE	MAX AMPS							
1	H-1	115	1	15	1.2	14-50R	208-250	1	50		115VAC 7WATT E26 LED 2200-2700K COLOR	2	FULL COLOR, LCD TOUCH SCREEN	HOOD MOUNTED		

**HOOD OPTIONS/ACCESSORIES**  
 LISTED TO UL SUBJECT 300A  
 SELF-CONTAINED FIRE SUPPRESSION SYSTEM  
 ELECTRONIC DETECTION  
 FULLY PLUG AND PLAY DESIGN  
 NSF APPROVED SEALANT  
 AUTOMATIC RANGE DEACTIVATION AND PASSWORD PROTECTION  
 MANUAL PULL STATION  
 WALL CAP  
 FINISHED TOP  
 FIRE SYSTEM PERMIT, STARTUP AND PUFF TEST  
 FIRE TEST KIT  
 NFPA 101 COMPLIANT

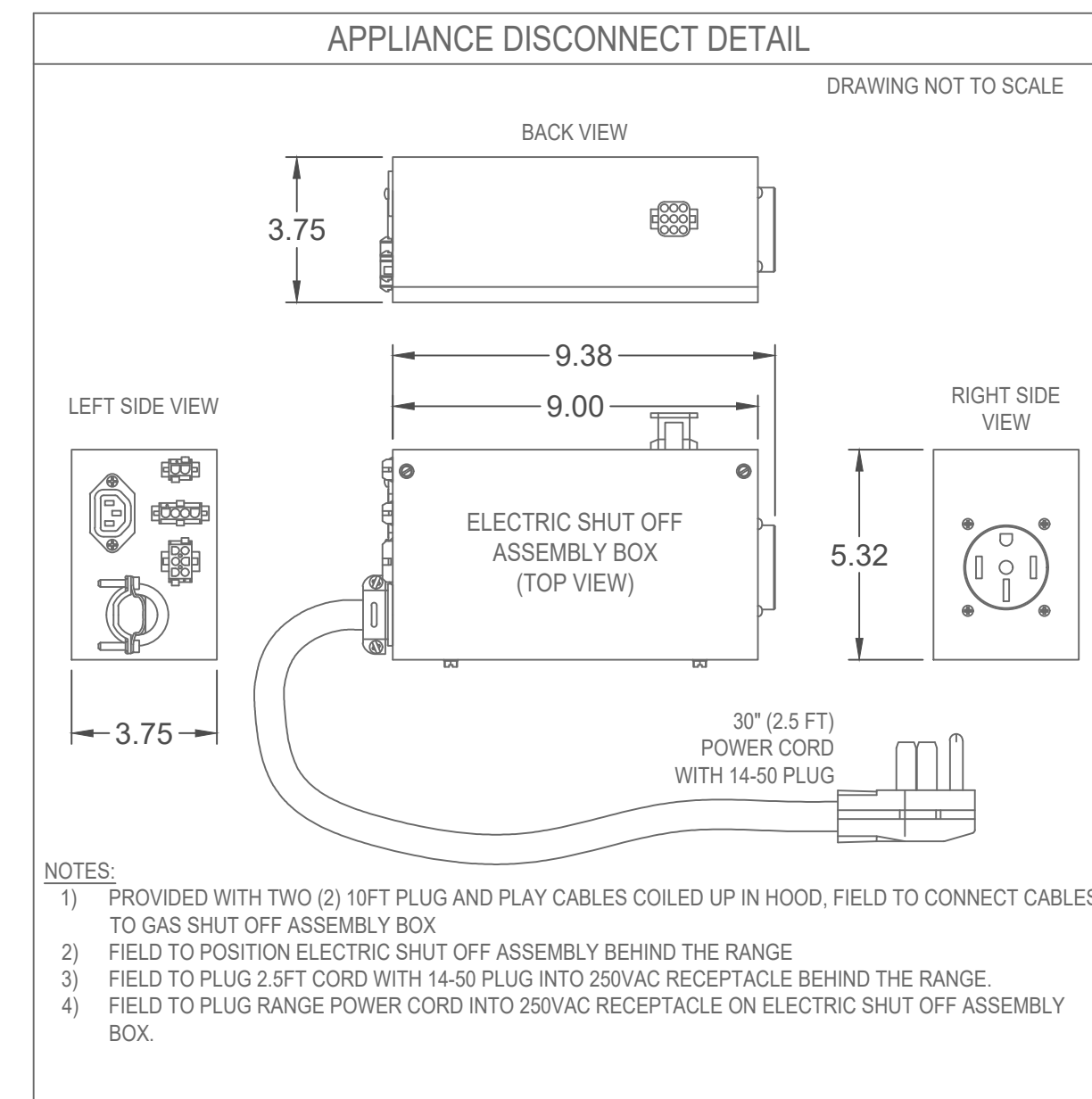
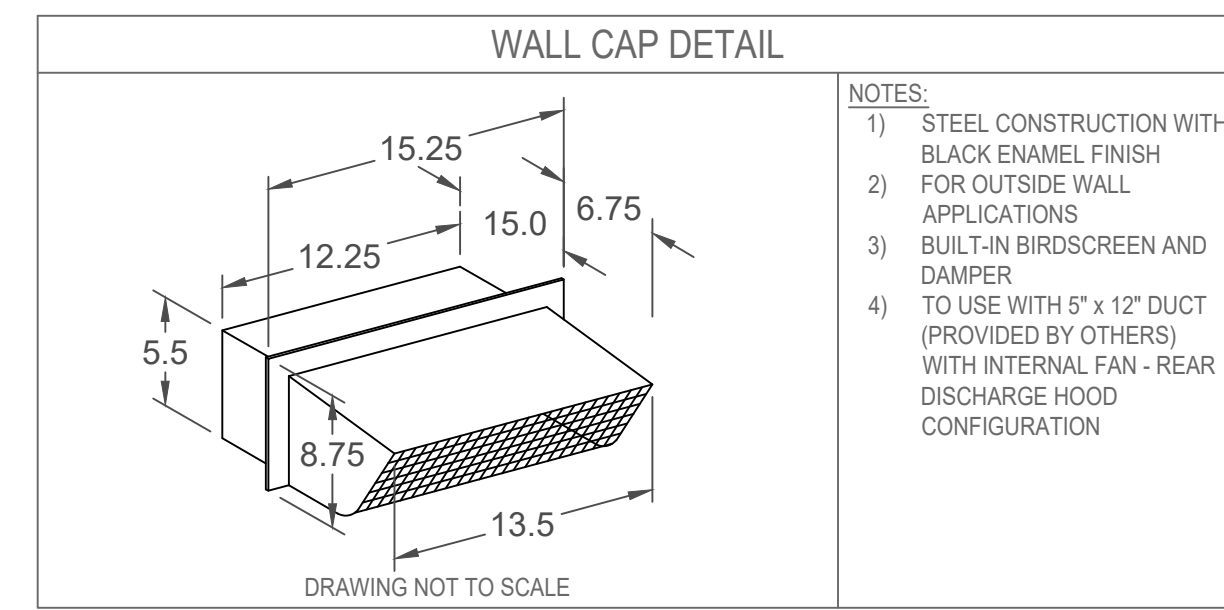


**MOUNTING BRACKET KEY**  
 A. CRITICAL MOUNTING POINTS (MUST BE SECURED TO STUDS OR DRY WALL HANGERS)  
 B. NA  
 C. LOCATION FOR FACTORY PROVIDED 4" H X 6" W X 3.5" D CONTROL J-BOX  
 D. HOOD SUPPORT TABS  
 E. HOOD LATCH CONNECTIONS

**NOTES:**  
 1) BEFORE MOUNTING, SITUATE MOUNTING BRACKET ON WALL, MAKING SURE CRITICAL MOUNTING POINTS ARE MET AND DISTANCE FROM BOTTOM OF BRACKET TO COOKING SURFACE IS BETWEEN 24 AND 30 INCHES.  
 2) CUT OUT SPACE IN WALL FOR FACTORY PROVIDED CONTROL J-BOX AND SECURE IN PLACE.  
 3) SECURE MOUNTING BRACKET TO WALL USING THE PROPER FIELD PROVIDED FASTENERS USING CRITICAL MOUNTING POINTS SHOWN ABOVE.



VOLT	FREQ	PHASE	INPUT POWER	WEIGHT	DUCT CONN
115	60	1	174 WATTS	6.5 LBS	5" x 12"



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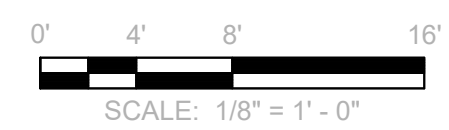
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 APPROVED BY \_\_\_\_\_ RPW  
 CHECKED BY \_\_\_\_\_ RPW  
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TITLE  
**KITCHEN HOOD PLAN**

PROJECT NO. \_\_\_\_\_ 50150622

**M3.0**

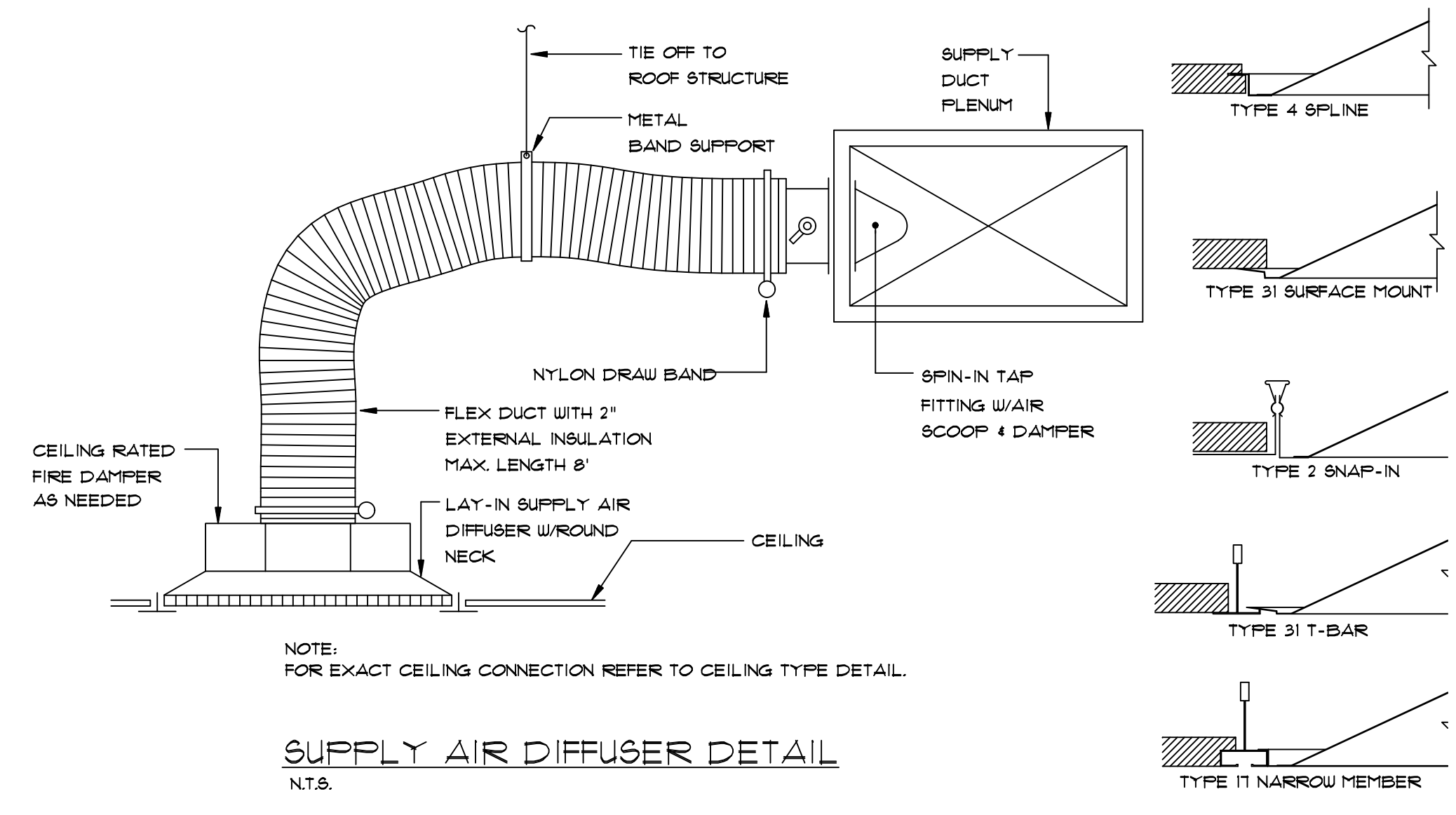
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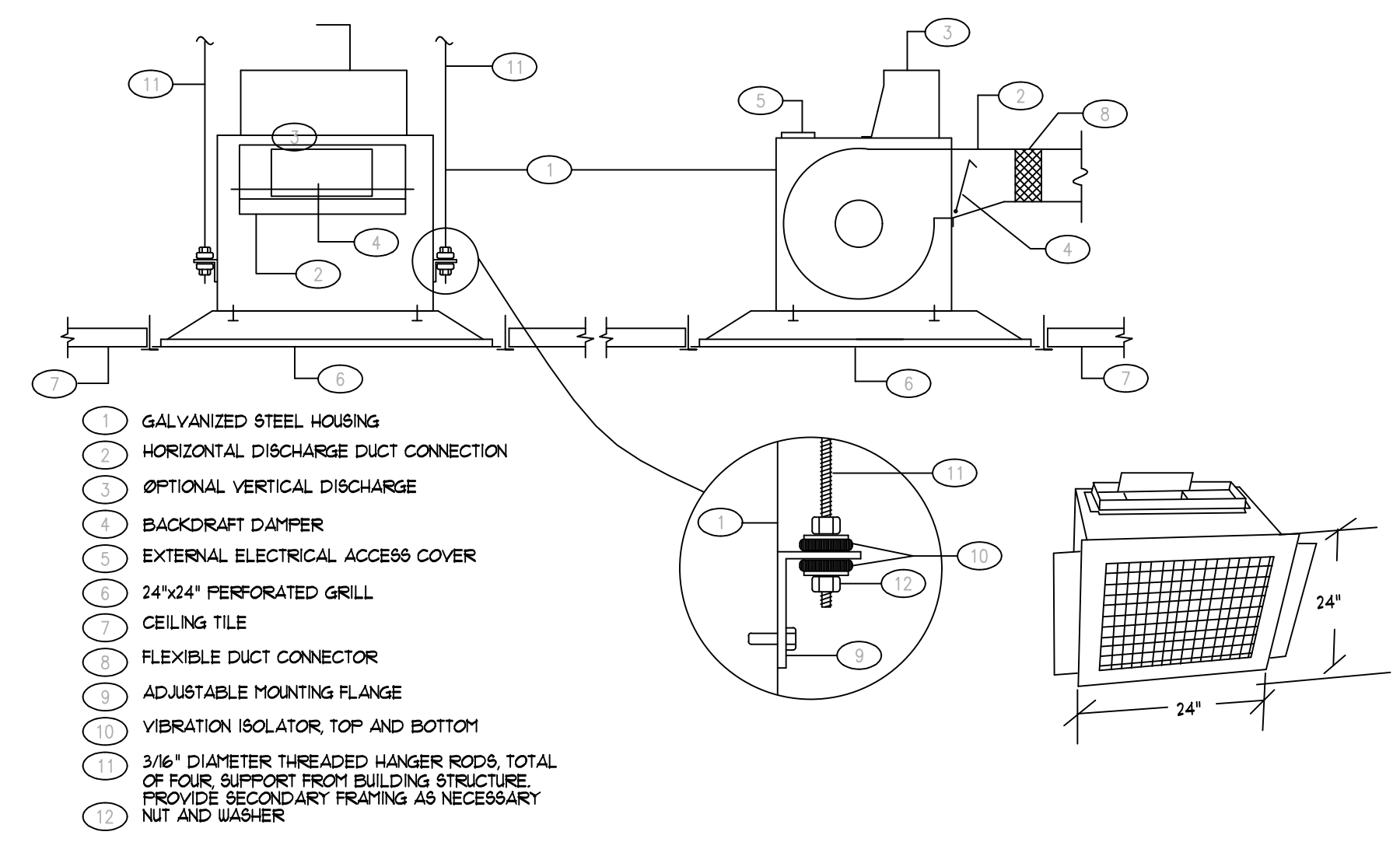




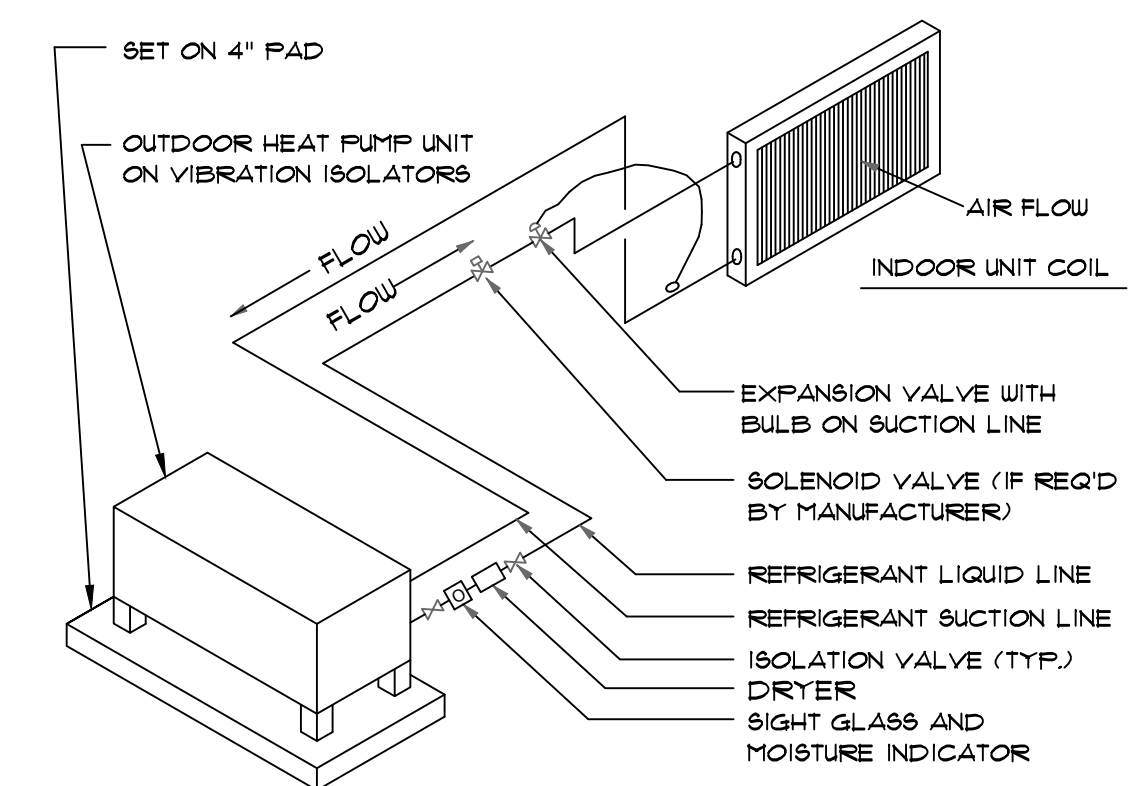


NOTE:  
FOR EXACT CEILING CONNECTION REFER TO CEILING TYPE DETAIL.

**SUPPLY AIR DIFFUSER DETAIL**  
N.T.S.

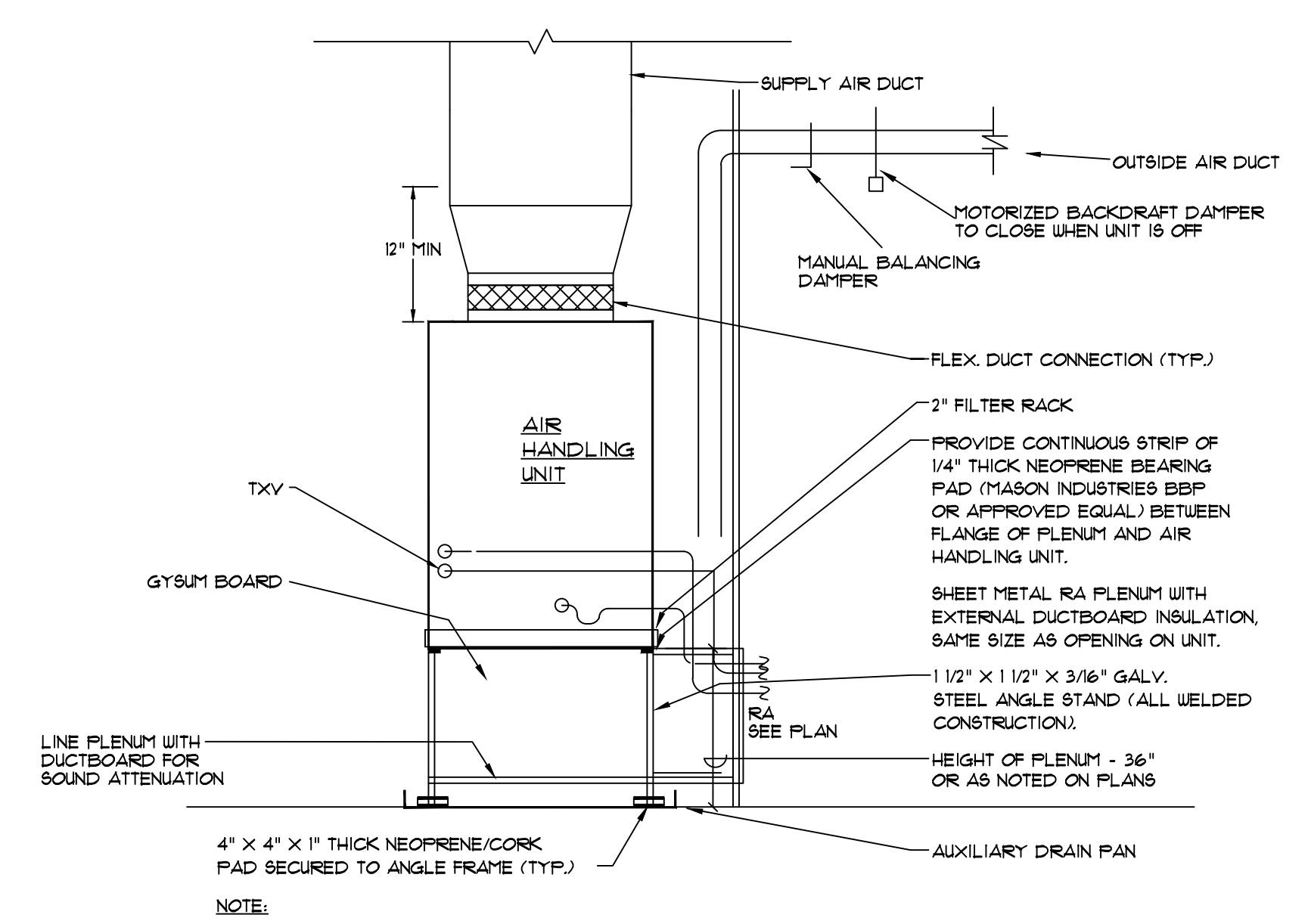


**CEILING EXHAUST FAN DETAIL**  
NOT TO SCALE

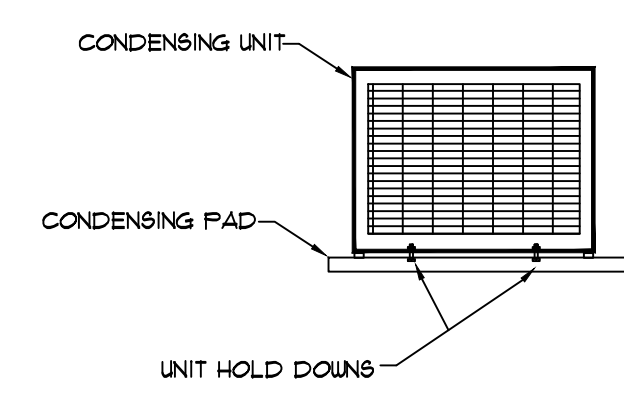


- NOTES:
1. INSULATE SUCTION LINE.
  2. PITCH ALL HORIZONTAL SUCTION PIPING A MINIMUM OF 1/2" IN 10 FEET IN DIRECTION OF FLOW.
  3. EQUIPMENT MANUFACTURER SHALL DETERMINE THE REFRIGERANT PIPE SIZES. PROVIDE SOLENOID VALVE, ACCUMULATOR AND OTHER REFRIGERANT SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER.
  4. WHERE REFRIGERANT PIPING IS NOT SHOWN, ROUTE AS DIRECTLY AS POSSIBLE FROM OUTDOOR UNIT ABOVE GRADE THRU WALL OF MECHANICAL ROOM TO AHU.

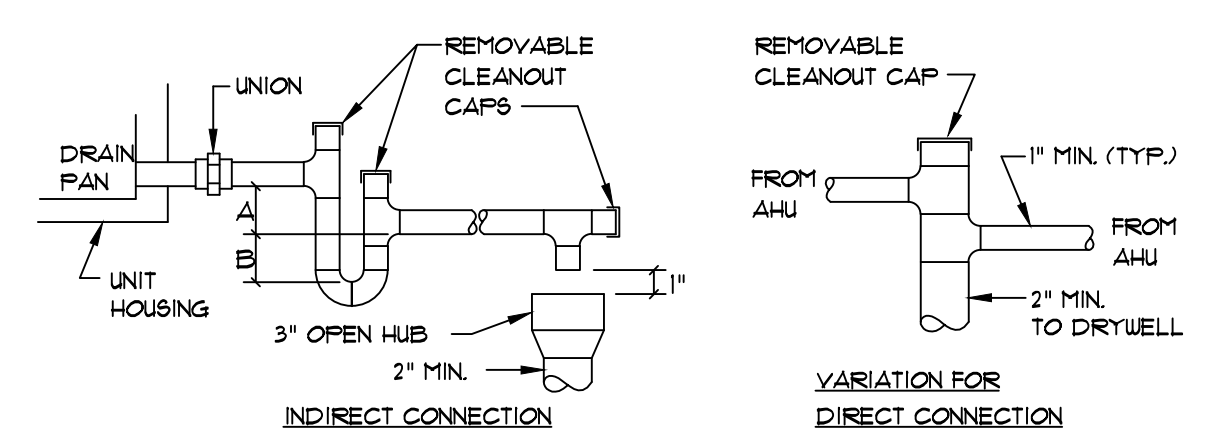
**REFRIGERANT PIPING SCHEMATIC - SPLIT SYSTEM HEAT PUMP**  
N.T.S.



- NOTE:
1. PROVIDE A FLOAT SWITCH IN THE AUXILIARY DRAIN PAN INTERLOCKED WITH AHU FAN.
  2. PROVIDE CLEANOUTS ON CONDENSATE DRAIN.
  3. PROVIDE FOR 2" FILTER RACKS WITH FILTERS.
  4. DRAIN FLOAT SENSOR IN SECONDARY PAN, OR PROVIDE A SECONDARY DRAIN LINE TO BE RUN TO EXTERIOR OF THE BUILDING.
  5. INTERLOCK OUTSIDE AIR DAMPERS WITH COMPRESSORS SUCH THAT THE DAMPER WILL NOT OPEN UNLESS COMPRESSORS ARE RUNNING.
- INSTALL ALL EQUIPMENT AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- VERTICAL AHU ON RA STAND/ PLENUM**  
N.T.S.



**CONDENSING UNIT DETAIL WITH HOLD DOWNS**  
N.T.S.



- NOTES:
1. DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE CONNECTION ON THE DRAIN PAN (1" MIN.)
2. DRAIN LINE SHALL SLOPE 1/8" PER FOOT (MIN.)
- SEE SPECIFICATIONS FOR PIPE AND INSULATION MATERIALS.
- | UNIT TYPE | A         | B  |
|-----------|-----------|----|
| DRAW-THRU | X PLUS 2" | X  |
| BLOW-THRU | 1" MIN.   | 2X |
- WHERE X=STATIC PRESSURE IN PAN

**CONDENSATE DRAIN DETAIL**  
N.T.S.



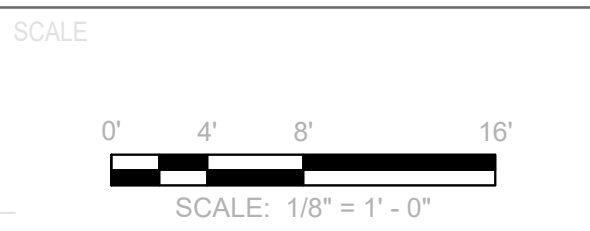
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CHECKED BY: RPW  
DATE: AUGUST 2023

**MECHANICAL DETAILS**

PROJECT NO. 50150622

M5.0

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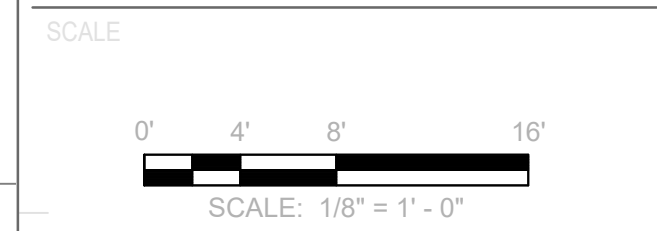




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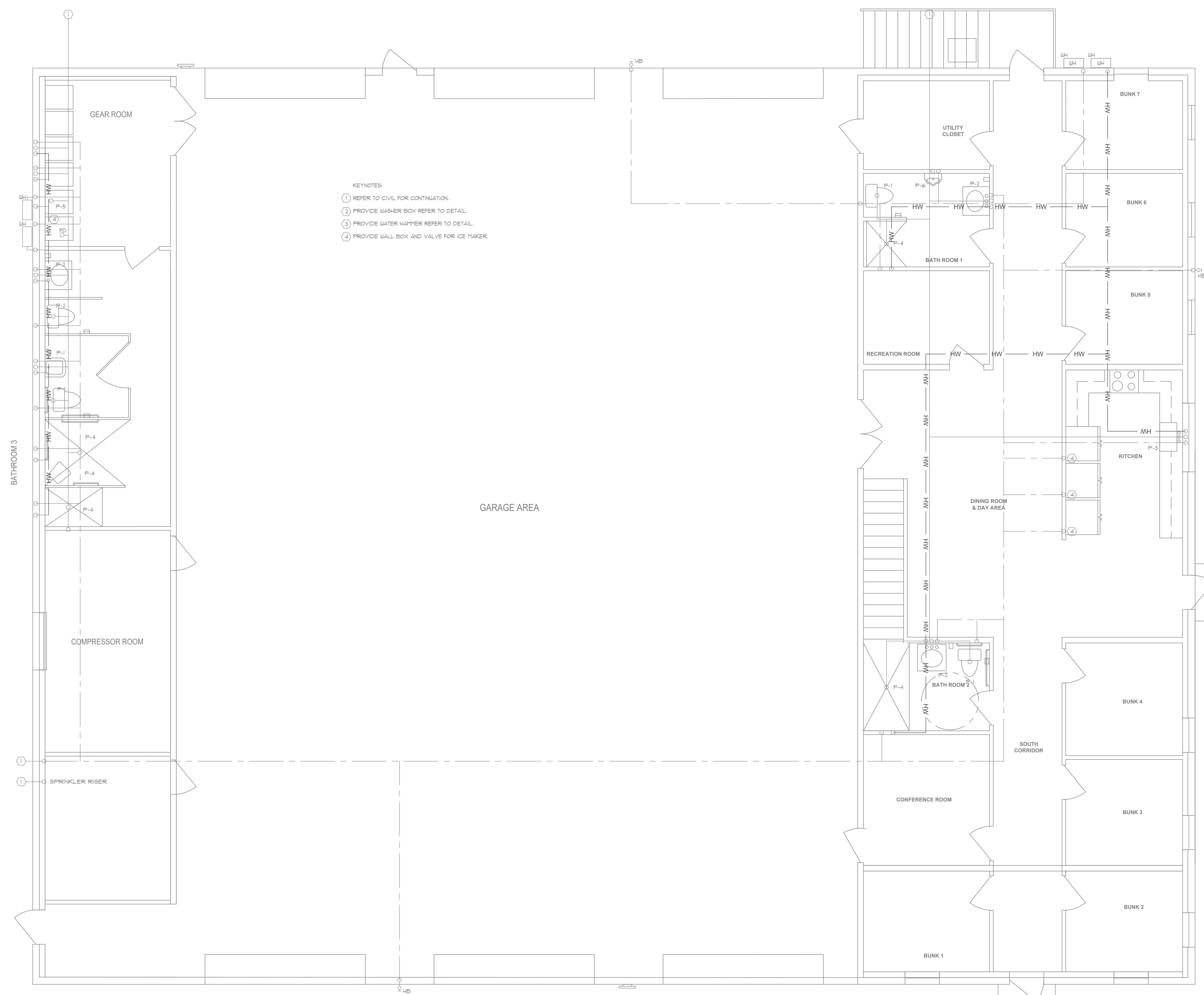
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TITLE  
**PLUMBING PLAN**

PROJECT NO. \_\_\_\_\_ 50150622

**P2.0**

SHEET NO.



- KEYNOTES:
- ① REFER TO CIVIL FOR CONTINUATION.
  - ② PROVIDE WASHER BOX REFER TO DETAIL.
  - ③ PROVIDE WATER HAMMER REFER TO DETAIL.
  - ④ PROVIDE WALL BOX AND VALVE FOR ICE MAKER.

**PLUMBING PLAN**  
 SCALE: 1/4" = 10"

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