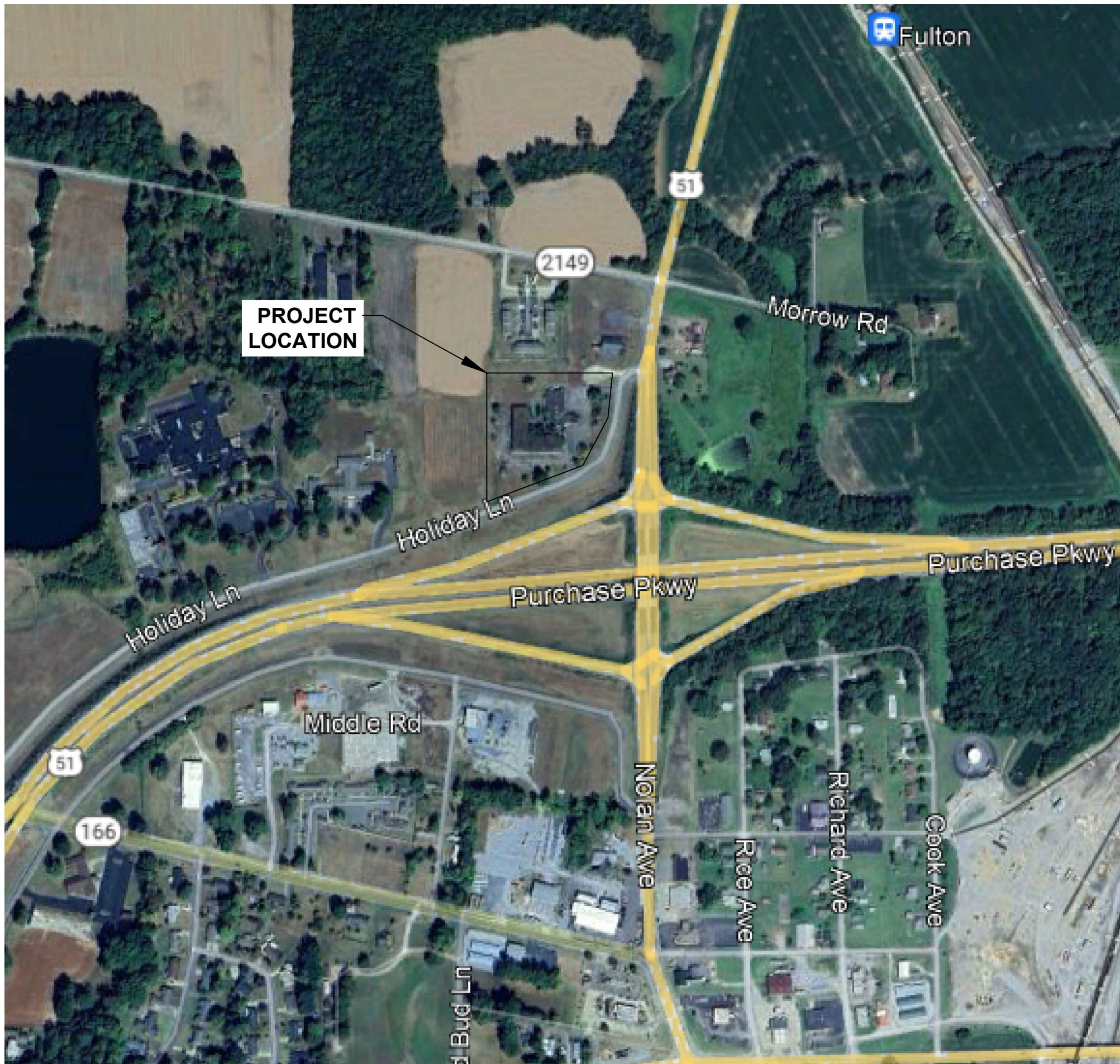


# ACEE'S NEIGHBORHOOD MARKET & DELI

## 1000 HOLIDAY LANE

### FULTON, KY 42041

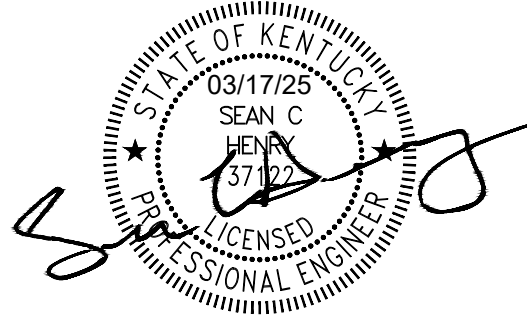
MARCH 2025



LOCATION MAP  
N.T.S



FULL SIZED PLANS HAVE BEEN PREPARED USING STANDARD SCALES. REDUCED SIZED PLANS MAY NOT CONFORM TO STANDARD SCALES. USE GRAPHIC SCALES WHEN MAKING MEASUREMENTS ON REDUCED PLANS.



SEAN C. HENRY, P.E.  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF KENTUCKY NO. 37122  
LICENSE EXPIRES: 06/30/2025

DATE

**KLINGNER**  
**& ASSOCIATES, P.C.**  
Engineers • Architects • Surveyors  
www.klingner.com

Carbondale, Illinois  
2150 West Main St.  
618.331.4050  
Quincy, IL Hannibal, MO  
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PREMIER  
ARCHITECTURE, LLC

KLINGNER &  
ASSOCIATES, PC

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GENERAL NOTES:

- THE MOST CURRENT COPY OF THE PROPOSED SITE PLAN AND SUPPORTING DOCUMENTS BEARING THE CITY ENGINEER'S SIGNATURE SHALL BE READILY AVAILABLE ON THE WORK SITE AT ALL TIMES. FAILURE TO PRODUCE THE APPROVED SITE PLAN MAY RESULT IN THE PROJECT BEING SHUT DOWN.
- THE PROPERTY OWNER IS RESPONSIBLE FOR LOCATING THE PROPERTY CORNERS OF THEIR PROPERTY AS SHOWN ON THIS SITE PLAN IN ORDER TO PREVENT ENCROACHMENTS ONTO PRIVATE OR CITY PROPERTY DURING CONSTRUCTION ACTIVITIES.
- THE APPROVAL OF THIS SITE PLAN IS FOR THE STORM WATER MANAGEMENT PLAN FACILITIES, CONVEYANCES, AND \_\_\_\_\_ ONLY, AND IS IN CONJUNCTION WITH THE SITE PLAN APPROVED \_\_\_\_\_ ALL NOTES AND REQUIREMENTS DEPICTED ON THE \_\_\_\_\_ SITE PLAN SHALL APPLY TO THIS SITE PLAN.
- THREE DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BEFORE YOU DIG (B.U.D.) 1-800-752-6007 OR 811.
- THE CONTRACTOR IS RESPONSIBLE TO SUBMIT PLUMBING PERMITS FOR BOTH THE SANITARY SEWER LATERAL AND FOR WATER SERVICE CONNECTION TO THE STATE OF KENTUCKY DEPARTMENT OF HOUSING, BUILDINGS AND CONSTRUCTION DIVISION OF PLUMBING, ALONG WITH ANY FEES ASSOCIATED WITH THE PERMITS.
- CONTRACTOR IS REQUIRED TO COMPLY WITH KYTC STANDARDS AND THE APPROVED KYTC ENTRANCE PERMIT.
- THE APPROVAL GIVEN SHALL NOT IN ANY MANNER BE INTERPRETED AS BEING A STATEMENT OR WARRANTY CONCERNING THE EXISTING AND/OR PROPOSED LOCATION OF THE PROPERTY LINES, PROPERTY CORNERS, BUILDING PLACEMENT AND OTHER PROPERTY REFERENCES SHOWN. THE CITY OF FULTON AND THIS DEPARTMENT SPECIFICALLY DISCLAIM ANY LIABILITY REGARDING THE ACCURACY AND/OR DESIGNS PROVIDED BY DEVELOPER'S PROFESSIONAL REPRESENTATIVE(S).
- IT IS UNDERSTOOD THE CITY RESERVES THE RIGHT TO MAKE FIELD CORRECTIONS RESULTING FROM INADVERTENT OVERSIGHTS, DEFICIENCIES OR UNFORESEEN ERRORS OMITTED DURING THE SITE PLAN APPROVAL PROCESS AS MADE EVIDENT DURING CONSTRUCTION OF ANY PROJECT. IT IS ALSO UNDERSTOOD ALL FINANCIAL RESPONSIBILITIES RESULTING FROM SAID FIELD REVISIONS WILL NOT INCLUDE THE CITY OF FULTON'S PARTICIPATION. IF ANY REVISIONS ARE REQUIRED, SAID REVISIONS SHALL BE COMPLETED UNDER THE DIRECT SUPERVISIONS AND APPROVAL OF THE CITY ENGINEER'S OFFICE.
- THE CONTRACTOR SHALL NOT SCALE FROM THESE PLANS FOR FIELD SURVEY LOCATIONS.
- ANY EXISTING BOUNDARY MARKERS DESTROYED OR DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN THE EXACT LOCATION BY THE CONTRACTOR AT HIS OWN EXPENSE BY A COMPETENT REGISTERED SURVEYOR.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE CURBS, GUTTERS AND/OR DRIVEWAY ENTRANCE APRONS DAMAGED DURING CONSTRUCTION TO A CONDITION THAT IS EQUAL TO OR EXCEEDS CURRENT CONDITIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE DIRT AND CONSTRUCTION DEBRIS CAUSED BY CONSTRUCTION ACTIVITIES FROM THE SURROUNDING ROADWAYS FOR THE DURATION OF THE PROJECT.
- EXISTING ROADWAYS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO A CONDITION THAT IS EQUAL TO OR EXCEEDS CURRENT CONDITIONS.
- IMPROPER GRADING/FINISHING OF CONCRETE OR BITUMINOUS SURFACES WITHIN THE PROJECT LIMITS OR ADJACENT RIGHTS-OF-WAY THAT RESULTS IN DRAINAGE PROBLEMS SHALL BE REMOVED AND REINSTALLED TO IMPLEMENT POSITIVE DRAINAGE.
- ALL DITCHES DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL LINES AND GRADES. THE IMPROVEMENT OF THE SITE SHALL NOT DETER OR OBSTRUCT THE NECESSARY DRAINAGE REQUIRED.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING THE LOCATION OF ALL PROPOSED IMPROVEMENTS, INCLUDING ROUGH AND FINISHED ELEVATIONS AND ALL OTHER PROPOSED IMPROVEMENTS INDICATED ON THESE DRAWINGS. THESE SITE PLANS PROVIDE THE GENERAL SIZE AND LOCATION OF THE PROPOSED BUILDING. REFER TO THE ARCHITECTURAL AND/OR STRUCTURAL PLANS FOR THE ACTUAL BUILDING SIZE AND DIMENSIONS. THE BUILDING SHALL NOT BE CONSTRUCTED FROM THESE SITE PLANS OR DIGITAL FILES THAT ARE EXPORTED FROM THESE PLANS.
- ALL DISTURBED AREAS SHALL BE GRADED TO DRAIN, SEEDED, FERTERLIZED AND MULCHED BY THE CONTRACTOR

SURVEY INFORMATION:

- TOPOGRAPHIC AND BOUNDARY SURVEYS WERE PERFORMED BY SHAWNEE PROFESSIONAL SERVICES. BEARINGS SHOWN ARE CORRELATED WITH KENTUCKY STATE PLANE SOUTH ZONE COORDINATES, NAD 83, NAVD 88, GEOID 18, OBTAINED IN THE FIELD AT THE TIME OF SURVEY FROM THE POINT OF INITIALIZATION UTILIZING THE KY VRS NETWORK.

SOLID WASTE NOTE:

- GARBAGE PICK UP IS REQUIRED FOR THIS FACILITY.

UTILITIES

- THE APPROVAL GIVEN HEREIN SHALL NOT IN ANY MANNER BE INTERPRETED AS BEING A WARRANTY STATEMENT CONCERNING THE EXISTING AND/OR PROPOSED EXTENSION OF DEPICTED UTILITY SERVICES. THE PROPERTY OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY APPROVALS AND PERMITS FOR CONNECTIONS/EXTENSIONS OF APPROPRIATE UTILITY SERVICES PROVIDER(S). THE APPROVAL OF THIS SITE PLAN SHALL BE CONSTRUED AS BEING IN CONFORMANCE WITH CITY ORDINANCE FOR THE SITE PLAN REQUIREMENTS

BURIED UTILITIES NOTE:

- BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT KENTUCKY 811 @ 811 OR 1-800-752-6007 FOR EXACT LOCATION OF BURIED UTILITIES PRIOR TO EXCAVATION OPERATIONS.

FLOOD NOTE

- THE PROPERTY SHOWN HEREON IS LISTED AS BEING IN AN AREA OF MINIMAL FLOOD HAZARD FROM THE ONLINE KENTUCKY FLOOD HAZARD PORTAL.

STATEMENT OF ACCURACY:

I HEREBY STATE THAT THE DEVELOPMENT PLAN SHOWN HEREON IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TO BE TRUE AND CORRECT SURVEY TO THE ACCURACY REQUIRED BY THE FULTON COUNTY, KENTUCKY, PLANNING COMMISSION AND THAT THE MONUMENTS HAVE BEEN PLACED AS SHOWN HEREON, ALL IN ACCORDANCE WITH THE MINIMUM STANDARDS OF PRACTICE AS PROMULGATED BY THE KENTUCKY REVISED STATUTE AND THE KENTUCKY ADMINISTRATIVE REGULATIONS.

DATE: \_\_\_\_\_

KENTUCKY LICENSED PROFESSIONAL ENGINEER NO. 37122

CERTIFICATE OF OWNERSHIP:

I HEREBY CERTIFY THAT I AM THE REAL PROPERTY OWNER OF THE PROPERTY SHOWN HEREON AND DO HEREBY APPROVE THIS DEVELOPMENT PLAN WITH OUR FREE WILL AND CONSENT.

DATE: \_\_\_\_\_

OWNER: \_\_\_\_\_

NATHAN LONG  
NLONG@ACEES.COM

EROSION PREVENTION AND SEDIMENT CONTROL:

- IN ACCORDANCE WITH THE REQUIREMENTS IN KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS SECTION 212 - EROSION CONTROL SHALL APPLY.

NOTICE OF INTENT (NOI):

- THE PERSON RESPONSIBLE FOR CONSTRUCTION ACTIVITIES THAT DISTURBS ONE (1) ACRE OR MORE SHALL FILE A NOTICE OF INTENT (NOI) WITH THE KENTUCKY DIVISION OF WATER TO COMPLY WITH PROVISIONS UNDER THE KPDES STORM WATER GENERAL PERMIT FOR STORM DISCHARGES. A COPY OF THE COMPLETED NOI SHALL BE FORWARDED TO THE OFFICE OF THE CITY ENGINEER.

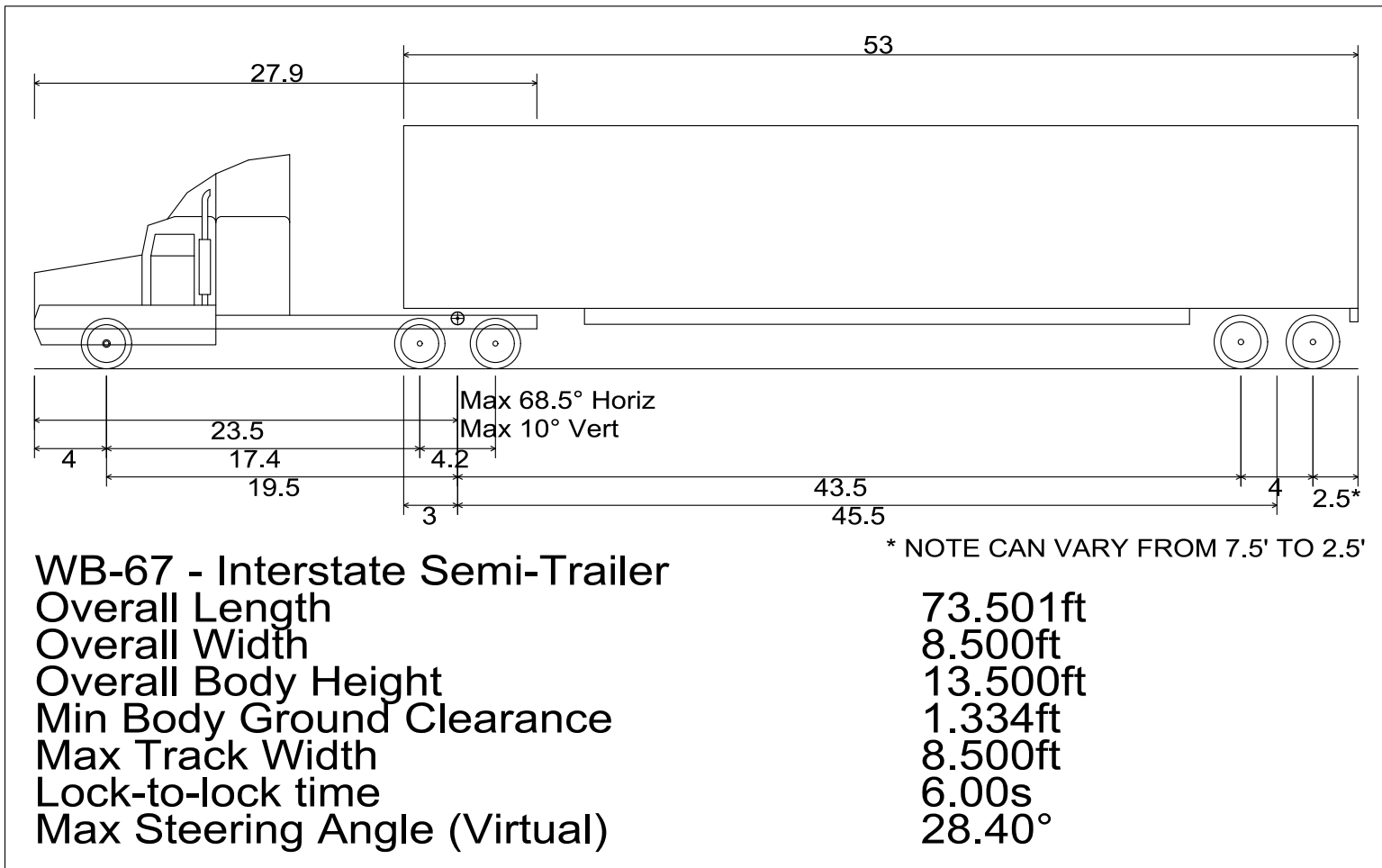
EROSION PREVENTION AND SEDIMENT CONTROL APPROVAL:

THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN DATED \_\_\_\_\_ SUBMITTED BY \_\_\_\_\_ IS APPROVED IN ACCORDANCE WITH KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS, SECTION 212 "EROSION CONTROL" WITH THE FOLLOWING CONDITIONS:

- THE PERMITEE SHALL NOTIFY THE CITY ENGINEER'S OFFICE 24-HOURS IN ADVANCE OF CONDUCTING INITIAL LAND-DISTURBING ACTIVITIES.
- THE PERSON RESPONSIBLE FOR CONSTRUCTION ACTIVITIES THAT DISTURBS ONE (1) ACRE OR MORE SHALL FILE A NOTICE OF INTENT (NOI) WITH THE KENTUCKY DIVISION OF WATER TO COMPLY WITH PROVISIONS UNDER THE KPDES STORM WATER GENERAL PERMIT FOR STORM DISCHARGES. A COPY OF THIS NOI SHALL BE FORWARDED TO THE OFFICE OF THE CITY ENGINEER.
- THE PERSON RESPONSIBLE FOR CONSTRUCTION ACTIVITIES SHALL COMPLETE AND SUBMIT A KPDES STORM WATER GENERAL PERMIT TO THE KENTUCKY DIVISION OF WATER FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
- APPLICABLE EROSION CONTROL DEVICES/MEASURES SHALL BE PERPETUALLY MAINTAINED AND CONTROLLED WITHIN THE DEVELOPMENT SITE. APPLICABLE EROSION CONTROL DEVICES/MEASURES SHALL BE INSTALLED PRIOR TO STRIPPING OF TOPSOIL AND VEGETATIVE COVER AND PERPETUALLY MAINTAINED DURING THE CONSTRUCTION PHASE OF THIS PROJECT UNTIL A PROPER VEGETATIVE COVER IS ESTABLISHED. IF THIS IS IGNORED, THE PROJECT WILL BE SUBJECT TO BEING SHUT DOWN IMMEDIATELY WITHOUT NOTICE. THE PROJECT WILL NOT RESUME UNTIL PROPER SILT PROTECTION HAS BEEN INSTALLED AND APPROVED BY THE CITY ENGINEER'S OFFICE. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY CLEANUP/RESTORATIONS, BUT NOT LIMITED TO ADJACENT DITCHES, CREEKS, STREAMS, PROPERTIES, AND APPLICABLE FINES DIRECT AND/OR INDIRECT SHOULD DISPLACEMENT OF SILT BEYOND THE DEVELOPMENT SITE OCCUR.
- ALL POTENTIAL EROSION SHALL BE CONTROLLED IN SUCH A MANNER SO AS TO PREVENT ANY DISPLACEMENT OF SILT TO THE ADJACENT PROPERTY OWNERS, STREAMS, AND/OR RIGHT OF WAY. THIS CONTROL SHALL BE IMPLEMENTED THROUGH PROPER INSTALLATION OF SILT FENCE OR STRAW BALES DURING CONSTRUCTION DURATION AND MAINTAINED UNTIL PROPER GROUND COVER HAS BEEN ESTABLISHED.
- ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ON THE DEVELOPER'S PROPERTY.
- A CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED TO PREVENT MUD AND DEBRIS THAT MAY BE TRACKED ONTO THE PUBLIC ROADWAY. THE CONSTRUCTION ENTRANCE PAD SHALL BE A MINIMUM OF 20' WIDE BY 50' LENGTH, UTILIZING 6" OF #2 ROCK PLACED ON FILTER FABRIC.
- ALL DISTURBED AREAS OF THE SITE SHALL BE STABILIZED. STABILIZATION SHALL BEGIN WITHIN 14 DAYS ON AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY (FOR 21 DAYS OR MORE) CEASED.
- ALL DISTURBED AREAS NOT TO RECEIVE PAVEMENT SHALL BE FINE GRADED, BACKFILLED WITH MINIMUM 6" TOPSOIL, SEEDED OR SODDED, FERTILIZED AND PROTECTED PER KYTC SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR RE-SEEDING AND/OR RE-SODDING UNTIL THE INITIAL STAND OF GRASS HAS BEEN ESTABLISHED.
- QUALIFIED PERSONNEL OF THE PERMITEE SHALL INSPECT ALL STORM WATER CONTROL MEASURES, DISCHARGE LOCATIONS, VEHICLE EXITS, DISTURBED AREAS OF THE CONSTRUCTION SITE AND MATERIAL STORAGE AREAS AT LEAST ONCE EVERY SEVEN (7) DAYS WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER AND AREAS THAT HAVE BEEN TEMPORARILY OR FINALLY STABILIZED AT LEAST ONCE A MONTH. INSPECTIONS BY THE CITY OF FULTON'S PUBLIC WORKS DEPARTMENT DOES NOT EXEMPT THE PERMITEE FROM MAKING WEEKLY INSPECTIONS OR INSPECTIONS 24 HOURS AT THE END OF A STORM EVENT THAT IS 0.5 INCHES OR GREATER.
- THE CONTRACTORS AND SUBCONTRACTOR THAT WILL IMPLEMENT EACH CONTROL MEASURE IDENTIFIED IN THE BMP PLAN SHALL SIGN A CERTIFICATION LISTED IN ITEM H OF THE KPDES PERMIT KYR10 ON PAGE IV-4.
- REVISIONS TO THE BMP PLAN BASED ON THE RESULTS OF ANY INSPECTION BY THE CITY ENGINEERING DEPARTMENT SHALL BE IMPLEMENTED WITHIN SEVEN (7) DAYS (A KPDES REQUIREMENT).
- A STOP WORK ORDER ISSUED BY THE CITY ENGINEERING DEPARTMENT MAY BE POSTED FOR THE ENTIRE PROJECT OR ANY SPECIFIED PART THEREOF, IF ANY OF THE FOLLOWING CONDITIONS EXIST:
  - ANY LAND DISTURBANCE ACTIVITY REGULATED UNDER THIS ARTICLE IS BEING UNDERTAKEN WITHOUT A PERMIT.
  - THE EROSION AND SEDIMENT CONTROL PLAN IS NOT BEING FULLY IMPLEMENTED.
  - ANY CONDITIONS OF THE KPDES STORM WATER GENERAL PERMIT ARE NOT BEING MET.
- A NOTICE OF TERMINATION (NOT) SHALL BE FILED WITH THE CITY ENGINEER'S OFFICE AND THE KENTUCKY DIVISION OF WATER WHEN ALL PERMIT REQUIREMENTS HAVE BEEN COMPLETED. FINAL STABILIZATION HAS BEEN ACHIEVED, AND THEIR FACILITIES NO LONGER HAVE ANY STORM WATER DISCHARGES. THE NOT CAN ALSO BE FILED IF ANOTHER PARTY HAS ASSUMED CONTROL OVER A PORTION OR ALL AREAS OF THE SITE PREVIOUSLY PERMITTED AND NEW PERMITS HAVE BEEN ISSUED TO THE PARTY ASSUMING CONTROL. THE CITY ENGINEER'S OFFICE WILL COMPLETE A FINAL INSPECTION OF THE SITE AND MAY RELEASE THE SURETY IN FULL OR GRANT A PARTIAL RELEASE.

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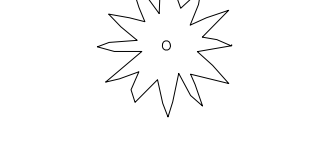
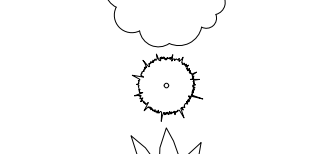
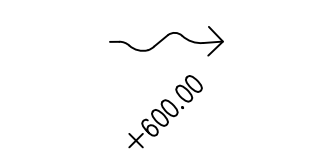
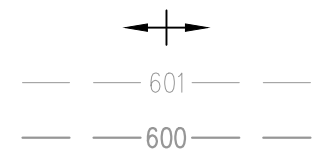
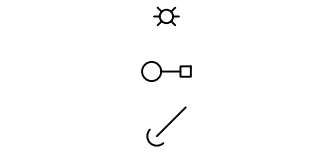
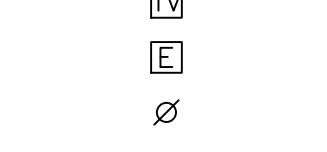
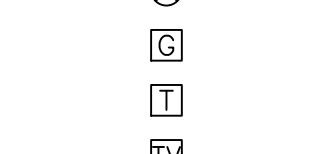
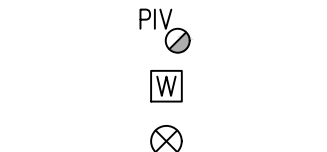
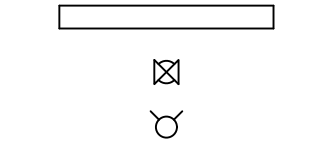
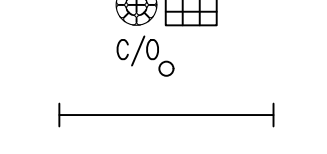
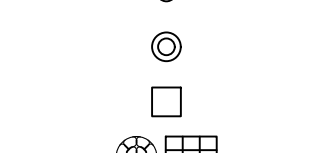
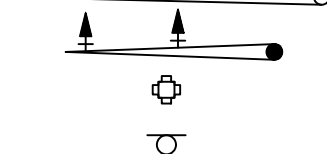
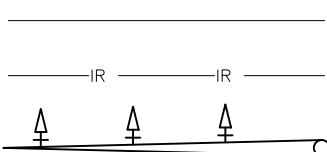
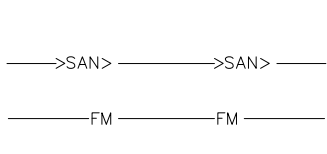
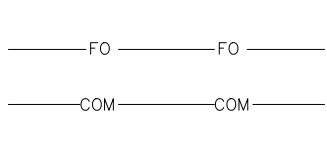
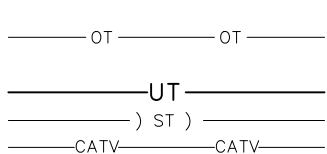
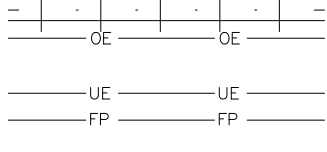
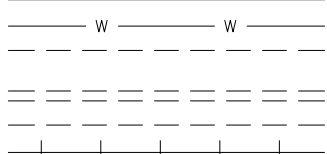
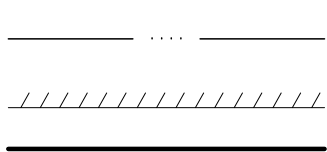
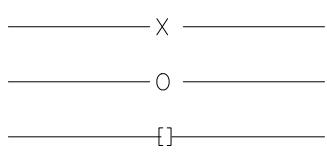
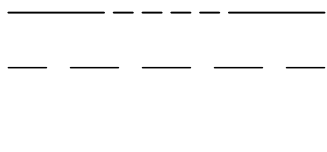
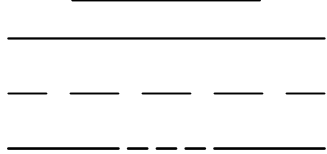
- INSTALL ALL SILT FENCE AND INLET PROTECTION.
- MONITOR AND INSPECT AS REQUIRED.
- AT COMPLETION OF CONSTRUCTION AND SITE IS STABLE. REMOVE SILT FENCE AND INLET PROTECTION.



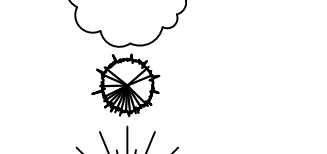
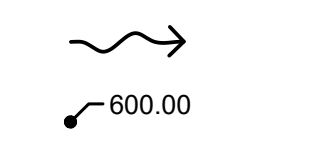
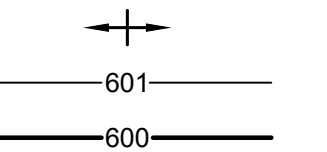
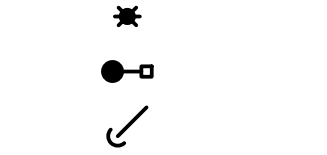
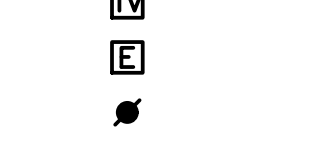
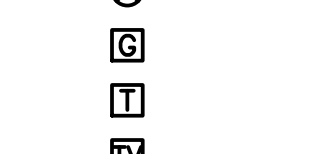
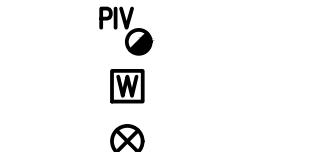
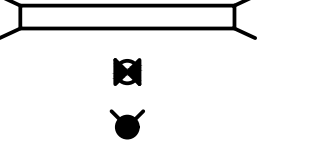
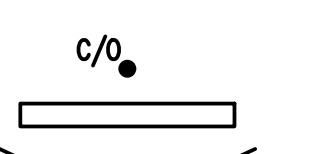
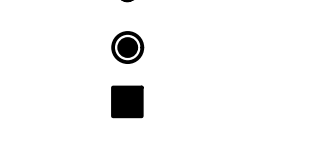
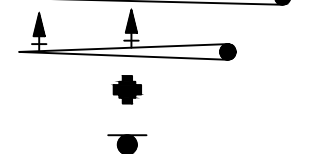
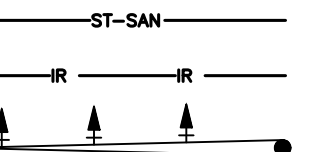
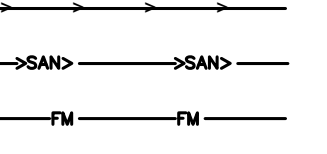
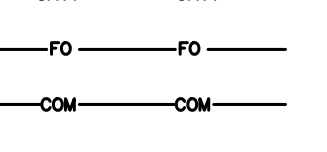
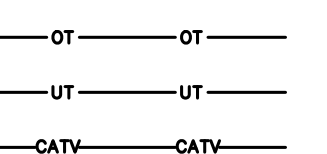
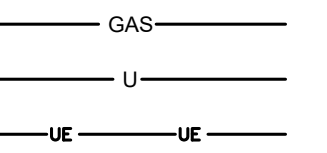
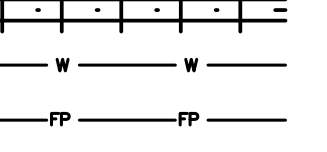
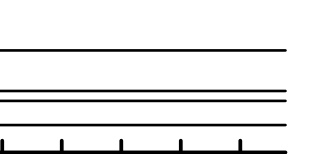
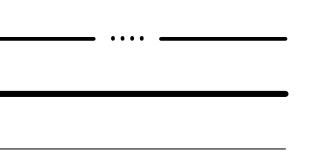
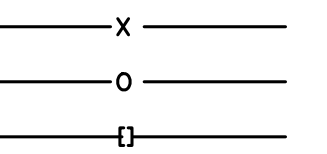
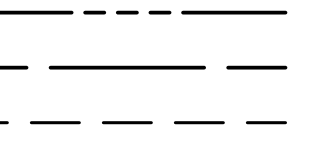
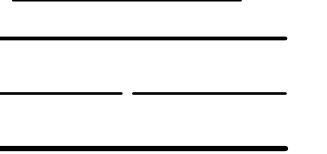
WB-67 - Interstate Semi-Trailer

LEGEND

EXISTING



PROPOSED



- PROPERTY LINE
- LOT LINE
- RIGHT OF WAY LINE
- CENTERLINE
- EASEMENT
- BUILDING SETBACK
- CONSTRUCTION LIMITS
- FENCE LINE
- CHAIN LINK FENCE
- FENCE W/ SQUARE POSTS
- STREAM
- STRUCTURE
- PAVEMENT MARKINGS
- EDGE OF PAVEMENT
- CURB AND GUTTER
- RAILROAD TRACKS
- WATER LINE
- FIRE PROTECTION
- GAS LINE
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- OVERHEAD TELEPHONE
- UNDERGROUND TELEPHONE
- CABLE TELEVISION
- FIBER OPTIC
- COMMUNICATION LINE
- STORM SEWER
- SANITARY SEWER
- FORCE MAIN
- COMBINED SEWER
- IRRIGATION SYSTEM
- MAST ARM SIGNAL (3 SIGNALS)
- MAST ARM SIGNALS (2 SIGNALS)
- UTILITY TRAFFIC SIGN
- SIGN
- MANHOLE
- STORM WATER INLET
- CATCH BASIN
- CLEANOUT
- CULVERT
- BOX CULVERT
- WATER VALVE
- FIRE HYDRANT
- POST INDICATOR VALVE
- WATER METER
- GAS VALVE
- GAS METER
- TELEPHONE PEDESTAL
- CABLE TV PEDESTAL
- ELECTRIC METER
- UTILITY POLE
- LIGHT STANDARD
- LIGHT POLE
- GUY WIRE
- SUMMIT / HIGH POINT
- CONTOURS
- INDEX CONTOURS
- DIRECTION OF DRAINAGE
- SPOT ELEVATION
- DECIDUOUS SHRUB
- DECIDUOUS TREE
- CONIFEROUS SHRUB
- CONIFEROUS TREE

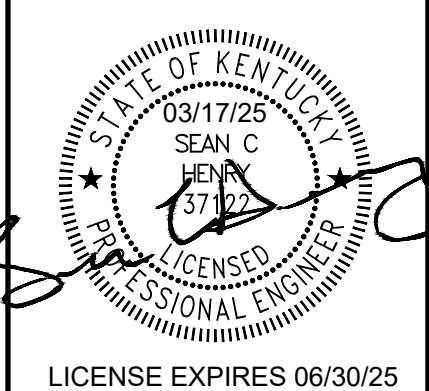
**KLINGNER & ASSOCIATES, P.C.**  
Engineers • Architects • Surveyors  
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REVISION HISTORY			
MARK	DESCRIPTION	DATE	APPR
△			

ISSUED FOR

BIDS



ACEE'S NEIGHBORHOOD MARKET & DELI  
1000 HOLIDAY LANE, FULTON, KY 42041  
GOLIGHTLY & LONG PROPERTIES LLC  
5820 CAIRO ROAD  
PADUCAH, KY 42001

Non-Reduced Sheet Size: 24" x 36"	
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.	
DESIGNED	DRAWN
SCH	SCH/TCR
FIELD	FIELD BOOK
SPS	N/A
CHECKED	CHECK DATE
SCH	03/16/2025

SHEET TITLE

GENERAL NOTES, & LEGENDS

PROJECT NO. 23-7038  
DRAWING ISSUED DATE: 03/17/2025  
SHEET  
**C001**



GENERAL CONDITIONS

A. Applicable Standards

All equipment, devices, apparatus, systems and installations shall be entirely suitable and safe for each intended application (during construction, adjusting, testing and use) and be in full compliance with applicable standards, rules, regulations, codes, statutes, ordinances, etc. of municipal, county, & state governments, owner's insurance company, local utilities, OSHA and labor regulations.

Owner/Contractor(s) shall be responsible for all construction activities and for compliance with applicable local, state and federal laws and regulations concerning information not specifically shown.

B. Permits, Fees, and Notices

The Building Contractor shall obtain and pay for Building Permit as may be required by local authorities Each individual contractor shall obtain and pay for all other permits, licenses, franchises, and consents required by law or necessary to perform his portion of the work, and shall pay for all inspections and fees required thereby, unless otherwise noted. Contractor to comply with all KYTC standards and the approved KYTC entrance permit.

C. Cleaning Up

General Housekeeping and Use of Premises - The Contractor shall keep site of operations (building and site) free from the accumulation of waste materials and other debris at all times and see that all other contractors and subcontractors remove and dispose of their rubbish. If this cleanup is not carried out in a satisfactory manner, Owner reserves the right to contract separately for the removal of rubbish and to back charge the responsible Contractor or withhold portions of monthly payments until a satisfactory cleanup arrangement is made.

All contractors shall store apparatus, materials, supplies, and equipment in such orderly fashion and in designated storage areas at the site of the work as will not unduly interfere with the progress of the work of any other contractor.

Final Cleaning - Just prior to delivery of the site to Owner, the Contractor shall thoroughly clean the project area of all debris and excess construction materials and equipment.

D. General Guarantee

Contractor or his Sureties shall remedy any defects in the work and pay for all damages to other work resulting therefrom which may appear within a period of one year of the date of substantial completion. Neither the final certificate for payment nor the partial use by the Owner will relieve the Contractor or his Sureties of liability for faulty workmanship or materials. All guarantee periods specified shall begin with the date of substantial completion. This guarantee is not Owner's exclusive remedy but is in addition to any other rights or remedies of Owner.

SITE WORK;

A. General

The drawings indicate the best knowledge on the general location and nature of the underground sewers, water lines, gas lines, and power and telephone services in the area of construction.

The Site Contractor shall contact affected utilities directly to verify the information on the Drawings or to determine the correct locations of these or other utilities which may be present.

The Site Contractor shall be solely responsible for the protection, repair, and loss of use penalties for all utilities indicated on the Drawings or indicated to exist by the utility. Damages to utilities caused by the Contractor's failure to properly investigate the existence of utilities in the area shall be the sole responsibility of the Contractor.

The Contractor shall provide bonds and insurance coverage satisfactory to the Owner for all work to be completed. Copies of such coverage or bonding forms shall be provided to the Owner prior to start of work.

The General Contractor shall employ at their expense an experienced testing laboratory or an independent professional consultant to perform required tests, inspections, or approvals of work. Said laboratory or consultant shall be satisfactory to the Owner.

Reports of inspections, tests and approvals required herein and provided by the Contractor shall be submitted to the Architect/Engineer in three (3) copies.

The General Contractor shall be responsible for site staking and layout. Special care shall be taken to assure property line clearances and easements within the site.

Where utility cutting, capping, or plugging is required, acquire necessary permits and, perform such work, in accordance with requirements of the utility company or governmental agency having jurisdiction.

All Work shall be performed within project boundaries, designated easements and rights-of-way as permitted.

SITE PREPARATION

PART - 1 GENERAL

1.1 SUMMARY

A. This Section includes the following:

Protecting existing plants and grass to remain; Removing and disposing of existing trees, shrubs, plants, and grasses; Clearing and grubbing; Shipping and stockpiling topsoil; Removing and disposing of above and below grade site structures and appurtenances; Removing and disposing of pavements and sidewalks; Disconnecting and capping or sealing site utilities; Temporary traffic control measures; Salvaging of specified materials for the Owner

1.3 PROJECT CONDITIONS

- Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
- Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
- Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
- Utility Locator Service: Notify utility locator service for area where Project is located before site clearing.
- Do not commence site clearing operations until Erosion Control Measures and any required Storm Water Pollution Prevention Plans (SWPPP) provisions are in place.

2. PRODUCTS

2.1 SOIL MATERIALS

- Satisfactory Soil Materials: Requirements for satisfactory soil materials are specified in "Excavation and Fill". Obtain approved borrow soil materials off-site when satisfactory soil materials are not available on-site.

3. EXECUTION

3.1 PREPARATION

- Protect and maintain benchmarks and survey control points from disturbance during construction.
- Locate and clearly flag trees and vegetation to remain or to be relocated.
- Provide to the Owner digital photography of existing site conditions prior to start of work including pavements to remain and which will be used during construction.
- Protect existing site improvements to remain from damage during construction.
- Restore damaged improvements to their original condition, as acceptable to Owner.

3.2 TREE PROTECTION

- Erect and maintain temporary fencing around tree protection zones before starting site clearing. Remove fence when construction is complete.
- Do not excavate within tree protection zones, unless otherwise indicated.
- Repair or replace trees and vegetation indicated to remain that are damaged by construction operations, in a manner approved by Architect.

3.3 UTILITIES

- Locate, identify, disconnect, and seal or cap off utilities indicated to be removed.
- Arrange with utility companies to shut off indicated utilities.
- Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated.
  - Notify Engineer not less than two days in advance of proposed utility interruptions.
  - Do not proceed with utility interruptions without Owner's/Engineer's written permission.
- Utilities by Others: Coordinate with others installing utilities on site or relocating and adjusting utilities offsite for the project. Schedule and arrange for necessary tie-ins and connections.

3.4 CLEARING AND GRUBBING

- Clear the site by removing and disposing of all obstructions such as fences, walls, foundations, buildings, accumulations of rubbish of whatever nature, shrubs, bushes, saplings, grass, weeds, stumps and other vegetation to a depth of at least 12" below proposed ground surface or proposed subgrade, whichever is lower. Removed materials shall be properly disposed offsite.

- Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.

3.5 TREE REMOVAL:

- October 1 through March 31: No restrictions on tree cutting.
- April 1 through September 30: No Tree Clearing can take place in this time period.
- Cut off trees and stumps at the existing ground level. Remove stumps and roots as needed.
- Remove trees and stumps within 2 feet of the proposed structures and underground piping to a depth of not less than 12 inches below the base elevation of proposed structures or underground piping.

3.6 PROTECTION OF PERSONS AND PROPERTY:

- Barricade open depressions and holes occurring as part of this Work, and post warning lights on property adjacent to or with public access.
- Operate warning lights during hours from dusk to dawn each day and as otherwise required.
- Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by operations under this Section.
- Provide traffic control items in accordance with the Manual of Uniform Traffic Control Devices (MUTCD), and the requirements of the governmental agency having jurisdiction, when work is being complete on or adjacent to public streets and/or Right-of-Ways.

3.7 TOPSOIL STRIPPING

- Remove sod and grass before stripping topsoil.
- Strip and stockpile topsoil materials per Section "Excavation and Fill".

3.8 SITE IMPROVEMENTS

- Remove existing above and below grade structures, foundations, pavements and improvements as indicated and as necessary to facilitate new construction.
- Pavements to be removed adjacent to pavement or structures to remain shall be saw cut to provide a uniform edge.
- Below grade structures to be removed shall be removed to a minimum of three (3) feet below proposed grade unless in conflict with proposed improvements which may require full removal and disposal.

3.9 DISPOSAL

- Disposal: Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.
- Burning tree debris at the site will only be allowed when permits are received by the proper authorities.
- Do not conduct any generation, transportation, or recycling of construction or demolition debris, clean or general or uncontaminated soil generated during construction, remodeling, repair, and demolition of utilities, structures, and roads that is not commingled with any waste, without the maintenance of documentation identifying the hauler, generator, place of origin of the debris or soil, and the weight or volume of the debris or soil, and the location, owner, and operator of the facility where the debris or soil was transferred, disposed, recycled or treated. Maintain documentation for three years.

EXCAVATION AND FILL

1.1 SUMMARY

- Excavate, fill, compact, and grade the site to the elevations shown on the Drawings, as specified herein, and as needed to meet the requirements of the construction shown in the Contract Documents.

2. PRODUCTS

2.1 TOPSOIL

- On-site Topsoil: On-site topsoil material is material excavated from the top 6 inches of the site.

2.3 SOIL MATERIALS

- General embankment and fill materials:
  - Predominately granular or non-expansive soils, free from organic matter and deleterious substances, containing no rocks over 3" in greatest dimension and having a minimum Standard Proctor Density of not less than 100 lb/cu ft.
  - Material is subject to the approval of the A/E, and may be removed from onsite excavations or imported from off-site borrow areas.
  - The upper 12" of fill or embankment shall not have rocks greater than 1" in dimension.
  - For soils to be placed below water, use clean granular materials.
- Structure embankment and fill materials:
  - In addition to the General embankment requirements, soils placed beneath and within 10 feet structures or pavements shall have the following the requirements:
    - Cohesive soils must meet all of the following:
      - Liquid limit of less than 45% and a plasticity index greater than 10 and less than or equal to 25%.
      - Density of 110 pcf or greater according to ASTM D 698 (Standard Proctor Density).
    - Granular soils must meet all of the following:
      - Density of 110 pcf or greater according to ASTM D 698 (Standard Proctor Density).
      - no more than 20% or less of fines passing the 200 sieve
      - Plasticity index of 3 or less
    - Chemically Modified Soil must meet all the following:
      - Utilize quick lime, hydrated lime or the lime by-product, Code L (also known as lime kiln dust).
      - Application Rates:
        - Quick Lime: 3% by dry weight of soil
        - Hydrated lime: 4% by dry weight of soil
        - Code L: 5% by dry weight of soil
      - Drainage Layers:
        - Material consisting of clean crushed stone or gravel graded from 1" to no more than 5% passing the 200 sieve.

3. EXECUTION

3.1 SURFACE CONDITIONS

- Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

3.2 FINISH ELEVATIONS AND LINES

- Finish grading shall be worked to contours or elevations indicated on the drawings. Rocks and other debris unearthed during finish grading operations shall be removed from immediate construction area and disposed of elsewhere on site as approved by Owner and Engineer/Architect.

3.3 PROCEDURES

A. Utilities

- Unless shown to be removed, protect active utility lines shown on the Drawings or otherwise made known to the Contractor prior to excavating. If damaged, repair or replace at no additional cost to the Owner.
- If active lines are encountered, and are not shown on the Drawings or otherwise made known to the Contractor, promptly take necessary steps to assure that service is not interrupted.
- If service is interrupted as a result of work under this Section, immediately restore service by repairing the damaged utility at no additional cost to the Owner.
- Where existing underground utilities are in actual contact with the new work, so that such utilities cannot be replaced as originally found prior to excavation, and where relocation and changes are required, then the work shall be replaced or relocated by "others" at no cost to the Contractor. The Contractor shall coordinate his work as to allow a reasonable time for such replacement or relocation and in no event shall extra compensation be allowed for such coordination or any reasonable delay occasioned there from. Should it be found necessary or desirable by the Owner for the Contractor to perform the work of replacement or relocation, the Engineer/Architect will issue in writing a field order defining the extent of the additional work and instructing the Contractor to proceed with such construction. Compensation for such work shall be determined as set forth in the General Conditions.
- Protection of persons and property:
  - Furnish, install and maintain barricades, warning lights, and/or warning tape at open holes and depressions or other potential hazards occurring as part of this Work.
  - Operate warning lights during hours from dusk to dawn each day and as otherwise required.

- Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, washout, and other hazards created by operations under this Section.
- Provide traffic control items in accordance with the Manual of Uniform Traffic Control Devices (MUTCD), and the requirements of the governmental agency having jurisdiction, when work is being complete on or adjacent to public streets and/or Right-of-ways.

C. Dewatering:

- Remove all water, including rainwater, encountered during trench and substructure work to an approved location by pumps, drains, and other approved methods.
- Keep excavations and site construction area free from water.

3.4 TOPSOIL STRIPPING

A. Stripping and Salvaging Topsoil:

- Mow all weeds, grass, and growing crops or other herbaceous vegetation close to the ground and remove from the site. Shred sod by shallow plowing or blading and thorough grading. Thoroughly shred to allow the soil to be easily spread in a thin layer over areas to be covered. If allowed by the Engineer, herbicides may be applied, and vegetation may be incorporated into the topsoil.
- Remove an adequate amount of topsoil from the upper 6 inches of existing on-site topsoil to allow finish grading with a finished grade of 4 inches of salvaged or amended topsoil. The topsoil may be moved directly to an area where it is to be used, or may be stockpiled for future use.

- Preparation for Topsoil Placement:
  - Finish excavation and embankment work according to the specified grades and cross cross-sections; grade and slope all surfaces to drain away from buildings and prevent ponding. Conform to the grading plan within  $\pm 2$  inches.
  - Loosen surface to a minimum depth of 4 inches to reduce compaction.

C. Topsoil Spreading and Finish Grading:

- Place the topsoil after all grading and trenching activities in the area have been completed.
- Place topsoil at least 8 inches deep, smooth and finished grade according to the contract documents. If topsoil is being amended with compost, thoroughly blend compost with on-site topsoil at the rate specified.
- After finish grading the topsoil, remove clods, lumps, roots, litter, other undesirable material, or stones larger than 1 inch (1/2 inch for turfgrass).
- Excess topsoil shall be removed offsite or incorporated into the embankment, if acceptable, in areas not requiring structural fill.

3.5 EXCAVATING

- Perform excavation within the project limits to the lines, grades, and elevations indicated and specified herein.

B. Excavated Materials:

- Satisfactory materials shall be used for fill or embankments within the project limits.
- Unsatisfactory materials shall be excavated to a depth below grade sufficient to provide a suitable subgrade support, and fill and compact with satisfactory materials.

- Surplus materials: Dispose of unsatisfactory excavated materials, and surplus excavated material, offsite at disposal areas arranged and paid for by the Contractor.

- Drainage: Provide temporary drainage facilities to prevent damage to public or private interests when necessary to interrupt natural flow or flow of artificial drains.

- Off-site Borrow: Obtain material required for fill or embankment in excess of that produced within the grading limits of the project from borrow areas selected and approved and paid for by the Contractor and approved by the Owner or his/her representative. The Contractor shall obtain written agreements from the property owners for the removal of the materials.

- Stability of Excavations: Perform excavations in accordance with OSHA excavating rules and regulations.

- Cold weather protection: Protect excavation surfaces from freezing when an atmospheric temperature is less than 35 degrees F.

3.6 EMBANKMENT

- Fill excavations as promptly as progress of the Work permits, but not until: Acceptance of construction below finish grade.

B. Subgrade Preparation:

- Remove vegetation, topsoil, obstructions, and deleterious materials from the ground surface prior to placement of embankment per Section 3.4 of this specification.
- Disk excavated area to a depth of 8", unless sand or aggregate. Proof roll and prepare the surface per Section 3.8.4 of this specification. Unsuitable material or material not achieving the specified stability, density and moisture requirements after three consecutive good drying days of moisture conditioning and compaction, consisting of at least two processing's utilizing disks or tillers, shall be removed and/or replaced, or shall be further treated per instructions of the soils engineer. Additional work or materials required after the three day conditioning period to stabilize the material, when approved in writing by the Owner or his/her representative, shall be performed and paid for in accordance with the General Conditions.
- Placing and compacting:
  - Place fill materials in layers not more than 8" in loose depth, unless otherwise approved by the A/E.
  - Before compacting, moisten or aerate each layer as necessary to provide the specified moisture content.
  - Compact each layer to required percentage of maximum density or to required moisture content for the area.
  - Do not place backfill or fill material on surfaces that are muddy, frozen, or containing frost or ice.
  - Place backfill and fill materials evenly adjacent to structures, to required elevations.
  - Prevent wedging action of backfill against structures by carrying the material uniformly around the structures to approximately the same elevation in all lifts.
  - The building embankment shall be constructed at minimum 5 feet beyond the proposed building line and pending approval of the compacted fill, shall be cut back at a 1:1 slope extending from the top of the proposed footing to 4 feet inside the building wall.
  - Placement of granular drainage material beneath the floor slab will be completed by the Building Contractor.

3.7 GRADING

A. General:

- Uniformly grade the areas within project limits under this Section, including adjacent transition areas.
- Finished surfaces within specified tolerance.
- Compact with uniform levels or slopes between points where elevations are shown on the Drawings, or between such points and existing grades.
- Where a change of slope is indicated on the Drawings, construct a rolled transition section having a minimum radius of approximately 8'-0", unless adjacent construction will not permit such a transition, or if such a transition defeats positive control of drainage.

B. Grading inside building lines:

- Provide drainage away from structures during construction of the embankments to prevent ponding.
- Finish surface within 0.05 foot of the proposed subbase elevation.

C. Grading outside building lines:

- Provide drainage in areas adjacent to buildings away from the structures, and to prevent ponding.
- Finish areas under walks and pavements to within 0.05 ft above or below the required subgrade elevation.

3.8 COMPACTING

- Control material compaction during construction to provide the minimum Standard Proctor Density (SPD) specified, within moisture requirements, for each area as determined according to (ASTM D 698).

- Provide not less than the following minimum densities for the subgrade or lift of material placed:

- Backfill or embankment under buildings, structures or within a 1:1 projected slope outside the finish structure grade @ 95% of Standard Proctor Density.
- Backfill or embankment under pavements, walks, slabs or within a 1:1 projected slope outside the finish grade @ 98% density for cohesive soil and 98% density for cohesionless material based on Standard Proctor Density.
- All other backfill or embankment areas @ 85% of Standard Proctor Density.
- Fills or embankments under buildings, structures, pavements, walks, slabs, and the projected slopes:
  - Prepared existing surface @ 90% of Standard Proctor Density.
  - The lower 1/4 of embankments greater than 4 ft in height but not exceeding the lower 2 ft. @ 90% of Standard Proctor Density.
  - Remainder as specified above.

C. Moisture control:

- Moisture content for compaction purposes within roadways shall be within the range of 3% below to 3% above optimum moisture as established by ASTM D 698.
- Moisture content for compaction purposes outside of roadways shall be within the range of 3% below to 3% above optimum moisture as established by ASTM D 698.
- Existing ground surface or embankment layer of material if necessary, shall be moisture-conditioned before compacting by:
  - For material below specified moisture parameters, uniformly apply water to surface of the material and incorporate with a disk or tiller.
  - For material above the specified moisture parameters, air dry with disks and tillers or replaced with acceptable onsite soils at the Contractors expense. If moisture reduction is unable to be achieved after multiple attempts, due to temperature or excessive weather conditions the A/E may approve another method.
- Process material to provide uniform moisture and clod reduction throughout.
- Unsuitable material removed due to high moisture may be spread and allowed to dry until suitable.

D. Chemically Modified Soil:

- Prior to Lime application, Fill or subgrade soils to be stabilized with lime should be thoroughly pulverized by either rotary speed mixing or a discing method approved by the engineer so that all soil will pass a 2-inch sieve.
- Spread Lime at specified rates (lime should be spread evenly with a drag, by hand rakes, automated spreader, or other approved method before mixing)
- Mixing and pulverizing should continue until 100 percent of the mix passes a 1-inch sieve and 60 percent passes the #4 sieve.
- After Pulverization, the fill and/or stabilized subgrade should be compacted to specified maximum dry density

E. Proof roll:

- Prior to placement of granular subbase material on building and pavement areas, the subgrade shall be "proof rolled" with a minimum 25 ton gross vehicle weight (GVW) truck to identify areas of soft or unstable subgrade. Permanent rutting in excess of 1" should be considered failure. Elastic (rebound) movement or rutting in excess of 1" with substantial cracking or substantial lateral movement should be considered failure. Rutting and cracking greater than detailed above is considered "pronounced elasticity." Elastic, rebound, or rolling movement is always associated with excess water in the subgrade system. Failing areas detected by proofrolling should be immediately repaired and retested or removed and replaced with suitable material.

3.9 FIELD QUALITY CONTROL

- The Contractor shall provide testing services of a soils engineer and/or independent laboratory approved by the Owner.
- Upon completion of each test and/or inspection, promptly distribute copies of test or inspection reports to the Owner and Engineer for approval. Do not install aggregate base until subbase approval is provided by the Owner.
- Testing Requirements:
  - Standard Proctor Density/Moisture (ASTM D 698):
    - 1 per the insttu fill material.
    - Field density/moisture tests ASTM D 2922 and ASTM D 3017 (nuclear) or ASTM D 1556 (sand cone) and ASTM D 2216 (moisture content).
  - Paved Areas: 1 per 5,000 sq ft per 8" lift.

3.10 MAINTENANCE

- Protection of newly graded areas:
  - Protect newly graded areas from traffic and erosion, and keep free from trash and weeds;
  - Repair and reestablish grades in settled, eroded, and rutted areas to the specified tolerances.
- Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, scarify the surface, reshape, and compact to the required density prior to further construction.

TRENCHING AND BACKFILLING

PART - 1 GENERAL

1.1 SUMMARY

- Trench, backfill, compact, as specified herein, and as needed for installation of underground utilities associated with the work.

PART - 2 PRODUCTS

2.1 MATERIALS

- Standard Trench Excavation: All materials encountered during trench excavation, except rock and over-excavation.
  - Suitable Backfill Material: Class II, Class III, Class IVA, or Class IVB as defined by ASTM D2321.
  - Unsuitable Backfill Material: Includes, but is not limited to, the following materials:
    - Soils not classified as suitable backfill material; Individual stones or concrete chunks larger than 6 inches and averaging more than one per each cubic foot of soil; Frozen materials; Stumps, logs, branches, and brush; Trash, metal, or construction waste; Soil in clumps or clods larger than 6 inches, and without sufficient fine materials to fill voids during placement; Environmentally contaminated soils; Materials removed as rock excavation or over-excavation.
  - Rock Excavation: Boulders or sedimentary deposits that cannot be removed in trenches without continuous use of pneumatic tools or blasting.
  - Over-excavation: Excavation of unsuitable or unstable material in trenches below the pipe zone
- Bedding Materials:
  - Aggregate materials in accordance with Class II Material: Manufactured and non-manufactured open-graded (clean) or dense-graded (clean) processed aggregate or coarse-grained natural soils (clean) with little or no fines.
- Trench backfill materials:
  - General: Soil materials removed from excavations or imported from off-site borrow areas free from organic matter and deleterious substances, and containing no rocks, stone or broken concrete over 4" in greatest dimension. No rocks larger than 1" diameter shall be permitted in the upper 12" of fill.
  - Non-expansive Soils: Soil or granular materials free from organic matter and deleterious substances having a Standard Proctor Density greater than 100 pcf and a plastic limit less than 22 percent.
  - Structural Fill: Cohesionless granular materials free from organic material and other foreign matter, complying with the requirements of Class III materials.
  - Clean Granular Materials: Class II Material: Manufactured and non-manufactured open-graded (clean) or dense-graded (clean) processed aggregate, or coarse-grained natural soils (clean) with little or no fines.

2.2 TOPSOIL

- Provide topsoil consisting of friable, fertile soil of a loamy character. It shall be relatively free from large roots, sticks, weeds, brush, or stones larger than 1 inch in diameter, or other litter and waste products. At least 90 percent must pass the No. 10 sieve and the P<sub>20</sub> must be between 5.0 and 8.0.
- Obtain topsoil from sources within the project limits, or provide imported topsoil obtained from sources outside the project limits, or from both sources

3. EXECUTION

3.2 FINISH ELEVATIONS AND LINES

- Finish grading shall be worked to contours or elevations indicated on the drawings. Rocks and other debris unearthed during final Excavating operations shall be removed from immediate construction area and disposed of elsewhere on site as approved by Owner and Engineer/Architect.

3.3 PROCEDURES

A. Utilities:

- No attempt is made to indicate or show accurate location of all underground utilities in the line of, or crossing the proposed work. In general, wherever record information was available of locations and wherever field location was possible during surveys, the approximate position of utilities is shown on the Drawings. These are primarily for the purpose of indicating the approximate position of the underground lines with respect to the proposed sewer lines.
- The determination of the exact location of all existing facilities, and all other pipes, services and structures, and their proper protection, support and maintenance during all construction operations, is the expressed responsibility of the Contractor in the performance of his contract. Contractors are advised to secure any additional information, relative to the underground utility lines, by consulting with proper private and public officials, under whose jurisdiction the maintenance and operation of the utility lines lie, and/or by field investigations at his own expense.
- Wherever underground utilities are disturbed or damaged as a result of the construction work proposed herein and such utilities can be replaced at their original locations and grades with all costs in connection with such replacement work to be borne by the Contractor and no separate or extra payment will be made therefore.
- Where existing underground utilities are in actual contact with the new work, so that such utilities cannot be replaced as originally found prior to excavation, and where relocation and changes are required, then the work shall be replaced or relocated by "others" at no cost to the Contractor. The Contractor shall so coordinate his work as to allow a reasonable time for such replacement or relocation and in no event shall extra compensation be allowed for such coordination or any reasonable delay occasioned there from. Should it be found necessary or desirable by the Owner for the Contractor to perform the work of replacement or relocation, the Engineer/Architect will issue in writing a field order defining the extent of the additional work and instructing the Contractor to proceed with such construction. Compensation for such work shall be determined as set forth in the General Conditions.

B. Protection of persons and property:

- Furnish, install and maintain barricades, warning lights, and/or warning tape at open holes and depressions or other potential hazards occurring as part of this Work.
- Operate warning lights during hours from dusk to dawn each day and as otherwise required.
- Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, washout, and other hazards created by operations under this Section.
- Provide traffic control items in accordance with the Manual of Uniform Traffic Control Devices (MUTCD), and the requirements of the governmental agency having jurisdiction, when work is being complete on or adjacent to public streets and/or Right-of-ways.

C. Dewatering:

- Remove all water, including rain water, encountered during trench and substructure work to an approved location by pumps, drains, and other approved methods.
- Keep excavations and site construction area free from water.
- The included geotechnical report identified ground water elevation observations at the time of borings.

3.4 EXCAVATING

- Perform excavating within the limits of the Work to the lines, grades, and elevations indicated and specified herein.
- Surplus materials:
  - Dispose of unsatisfactory excavated materials, and surplus excavated material.

3.5 PIPE BEDDING

- Place bedding material in the bottom of the trench in lifts no greater than 6 inches thick. Consolidate and moderately compact bedding material.
- Shape bedding material to evenly support pipe at the proper line and grade, with full contact under the bottom of the pipe. Excavate for pipe bells.
- Install pipe and system components.
- Place, consolidate, and moderately compact additional bedding material adjacent to the pipe to a depth equal to 1/6 the outside diameter of the pipe.

3.6 HAUNCH SUPPORT

A. Granular Material:



AGGREGATE BASE COURSES

PART 1 - GENERAL

1.1 SUMMARY

A. Provide aggregate base courses on a prepared subbase where shown on the Drawings, and as specified herein.

1.3 REFERENCES

A. Standard Specifications for Road and Bridge Construction, June 1, 2019, Kentucky Transportation Cabinet (KYTC) herein noted as the Standard Specifications.

PART - 2 PRODUCTS

2.1 MATERIALS

A. Geotextile Fabric: Consisting of woven or non-woven filaments of polypropylene, polyester or polyethylene meeting the following minimums, conforming to Section 843 in the Standard Specifications:

1. Grab tensile Strength (lbs): 200 ASTM D 4632.

2. Elongation (%): 15 ASTM D 4632.

3. Trapezoidal Tear Strength (lbs): 75 ASTM D 4533.

B. Geogrid Material

1. Tensar HX 5.5 and/or HX 165 - Geogrid or Equal

C. Aggregate Base Course:

1. Course Aggregate - Dense Graded Aggregate (DGA) and Crushed Stone Base (CSB)

PART - 3 EXECUTION

3.1 SUBGRADE PREPARATION

A. Subgrade preparation shall be in accordance with Section 3.6 Excavation and Fill of these specifications.

3.2 GEOTEXTILE FABRIC

A. Geotextile fabric when specified shall be placed on the prepared subbase prior to placement of the aggregate base course. Fabric of insufficient width or length to fully cover the specified area shall be lapped or sown. Minimum lap shall be 12' and minimum sewn lap shall be 4".

B. Placement of the base course on the fabric shall be accomplished in a manner as to prevent tearing or shoving of the material. Fabric damaged shall be repaired or replaced prior to placement of the base course.

3.3 GEGRID

A. Geogrid when specified shall be placed on the prepared subbase prior to placement of the aggregate base course. When geogrid is used for stabilization, the aggregate base thickness shall be a minimum of six (6) inches thick in order to prevent it from slipping through the aggregate base. Minimum lap shall be 12" or as specified by the manufacturer.

3.4 AGGREGATE PLACEMENT

A. General: The aggregate shall be uniform in gradation. The base course shall be constructed in layers not more than four (4) inches thick when compacted, except that if tests indicate that the desired results are being obtained, the compacted thickness of any layer may be increased to a maximum of eight (8) inches. When placed, it shall be free from segregation and shall require minimum bleeding or manipulation. Immediately after the material has been placed, it shall be compacted with a tamping roller, a vibratory machine or combination of the two.

B. Compaction: Before the aggregate is deposited on the subgrade, it shall contain the amount of moisture required for compaction. The granular material shall be compacted to not less than 98 percent of the Standard Laboratory Density, determined in accordance with ASTM D 698 (Standard Proctor). If test indicate that the base course does not comply with the density requirements, additional wetting, if necessary, and rolling will be required until the density is obtained. Moisture shall be added to the material during compaction only when it is necessary to increase the percentage of moisture to obtain the required density.

C. Staging: The aggregate base shall initially be placed and compacted to 90% of the design thickness shown on the Drawings. The remaining 10% of the aggregate base and final finishing shall be completed after the curbs and driveways are installed. The final surface shall be within +/- 0.5".

D. Proof roll: After the Contractor has finished graded the base course, the rock base shall be "proof rolled" with a minimum 25 ton gross vehicle weight (GVW) truck to identify areas of soft or unstable subgrade. Permanent ruts in excess of 1" shall be considered failure. Elastic (rebound) movement or rutting in excess of 1" with substantial cracking or substantial lateral movement should be considered failure. Rutting and cracking greater than detailed above is considered "pronounced elasticity." Elastic, rebound, or rolling movement is always associated with excess water in the subgrade system. Failing areas detected by proofrolling should be immediately repaired and retested or removed and replaced with suitable material.

E. Flatness: Maximum variation of 1/2 inch measured with 10-foot straight edge.

3.5 FIELD QUALITY CONTROL

A. The Contractor will provide testing services of a soils engineer and/or independent laboratory for this project.

B. Upon completion of each test and/or inspection, promptly distribute copies of test or inspection reports to the City for approval. Do not install concrete pavement until aggregate base approval is provided by the City.

C. Testing Requirements:

1. Determine moisture-density relationships by ASTM D 698 (Standard Proctor). Perform at least one test for each type of material used.

2. Provide not less 98% of maximum density of material compacted at optimum moisture content between +/-3% of optimal for the actual density of each layer of material in place.

3. Field density/moisture tests (ASTM D 6938):

Aggregate Base: 1 per 100 ft of roadway per 8" lift.

4. Demonstrate using a string-line at 100 lineal foot intervals that the minimum thickness of the base rock for the street is being provided.

PORTLAND CEMENT CONCRETE SITE WORK

PART 1 - GENERAL

1.1 SUMMARY

A. Provide P.C. concrete pavement. Provide cast-in-place concrete, including formwork and reinforcement, where shown on the Drawings, and as specified herein.

1.2 SUBMITTALS

A. If requested by the Engineer/Architect (A/E), within 15 calendar days after the Contractor has received the Owner's Notice Award, submit:

1. PC Concrete Mix Designs

1.3 REFERENCES

A. Standard Specifications for Road and Bridge Construction, June 1, 2019, Kentucky Transportation Cabinet (KYTC) herein noted as the Standard Specifications.

PART 2 - MATERIALS

2.1 REINFORCEMENT SHALL COMPLY WITH THE FOLLOWING MINIMUMS:

a. Bars: ASTM A615, grade 60 unless otherwise noted on the Drawings, using deformed bars for #3 and larger.

b. Welded Wire Fabric: ASTM A185

c. Bending: ACI 318

2.2 Concrete used shall be in accordance with mix designs as set forth in the Standard Specifications for Road and Bridge Construction, Kentucky Transportation Cabinet, 2019.

a. Slump shall be 4" or less.

b. Air percentage shall be 6% +/-1.5%

PART 3 - EXECUTION

3.1 SUBGRADE PREPARATION

A. Subgrade preparation shall be in accordance with Section 3.6 Excavation and Fill of these specifications.

B. Geotextile Fabric, Geogrid and Aggregate Base shall be in accordance with Section Aggregate Base Courses of these specifications

3.2 PORTLAND CEMENT CONCRETE PAVING

A. The PC Concrete paving, sidewalk, curb and structures shall in general be constructed in compliance with Section 501 as specified herein:

1. Comply with Articles:

B. All exposed walls shall be rubbed with an abrasive stone to remove roughness and one part portland cement and 1 1/2 parts fine sand grout shall be applied uniformly to the surface.

3.4 PAVEMENT MARKINGS

A. Concrete pavement shall be cured a minimum of 28 days and be dry before starting pavement marking.

B. Sweep and clean surface to eliminate loose material and dust. Remove any oil or grease.

C. Apply paint with mechanical equipment to produce pavement markings of dimensions indicated with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 16 mils.

D. Paint shall not be applied at air temperatures below 40 degrees F.

3.5 FIELD QUALITY CONTROL

A. The Contractor shall provide testing services of a soils engineer and/or independent laboratory for this project.

B. Upon completion of each test and/or inspection, promptly distribute copies of test or inspection reports to the City for approval.

C. Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements:

1. Testing Frequency: Obtain one composite sample for every 10 cu. yd. placed, plus one set for each additional 50 cu. yd. placed on the same day.

2. Slump: ASTM C 143/C 143M, one test at point of placement for each composite sample of each concrete mixture. Perform additional tests when concrete consistency appears to change.

3. Air Content: ASTM C 231, pressure method, for normal-weight concrete; ASTM C 173/C 173M, volumetric method, for structural lightweight concrete; one test for each composite sample of each concrete mixture.

4. Concrete Temperature: ASTM C 1064/C 1064M; one test per truck when air temperature is 35 deg F and below and when 85 deg F and above.

5. Unit Weight: ASTM C 567, fresh unit weight of structural lightweight concrete; one test for each composite sample of each concrete mixture.

6. Compression Test Specimens: ASTM C 31/C 31M.

a. Cast and laboratory cure one set of five (5) standard 4" x 8" cylinder specimens for each composite sample.

b. Cast and field cure one additional standard cylinder specimen for each composite sample for cold or hot weather concrete.

7. Compressive-Strength Tests: ASTM C 39/C 39M;

a. Cylinders (4" x 8") taken: test one (1) of five (5) laboratory-cured specimens at 7 days and one (1) set of three (3) specimens at 14 days. The fifth specimen will be a hold to serve as a spare if specimens do not reach their design strengths.

b. A compressive-strength test shall be the average compressive strength from a set of two or three specimens obtained from same composite sample and tested at age indicated.

ASPHALT PAVING

PART 1 - GENERAL

1.1 SUMMARY

A. Provide hot mix asphalt (HMA) pavement consisting of binder course(s), and surface course on a prepared aggregate base, and pavement markings where shown on the Drawings, and as specified herein.

1.2 SUBMITTALS

A. If requested by the Engineer/Architect (A/E), within 15 calendar days after the Contractor has received the Owner's Notice Award, submit:

1. Hot Mix Asphalt Designs as applicable for: Binder Course and Surface Course

2. Certifications of material compliance for: Traffic Paint.

1.3 REFERENCES

A. Standard Specifications for Road and Bridge Construction, June 1, 2019, Kentucky Transportation Cabinet (KYTC) herein noted as the Standard Specifications.

PART - 2 PRODUCTS

2.1 MATERIALS

A. Bituminous Material Prime and Tack Coat:

1. Section 406

B. HMA Binder Course:

1. Section 806

C. HMA Surface Course:

1. Section 403.03.03 - Preparation of Mixture, Part A Mixture Composition

D. Pavement-Marking Paint: Latex, waterborne emulsion, lead and chromate free, ready mixed, complying with FS TT-P-1952, with drying time of less than 45 minutes. The Architect/Engineer shall approve the paint manufacturer.

1. Color: Yellow for Accessibility Parking stripes and hatching. White for all other stripes, symbols, words, and hatching.

PART - 3 EXECUTION

3.1 SUBGRADE PREPARATION

A. Subgrade preparation shall be in accordance with Section 3.6 Excavation and Fill of these specifications.

B. Geotextile Fabric, Geogrid and Aggregate Base shall be in accordance with Section Aggregate Base Courses of these specifications.

3.2 BITUMINOUS PRIME & TACK COAT

A. The prime and tack coats shall be applied in accordance with Article 406.

3.3 HMA BINDER AND SURFACE COURSES

A. The HMA binder and surface courses shall in general be constructed in compliance with Section 40 as specified herein:

1. Comply with Articles:

a. 403.02 Materials & Equipment

b. 403.02.07 Asphalt Pavers

c. 403.03.02 Preparation of Base

d. 403.03.07 Joints

e. 403.03.09 Leveling, Wedging & Scratch Course

f. 403.03.10 Compaction

g. 403.03.11 Tolerances

h. 403.03.13 Durable Pavement Edge

3.4 PAVEMENT MARKINGS

A. Asphalt pavement shall be in place a minimum of 10 days and be dry before starting pavement marking.

B. Sweep and clean surface to eliminate loose material and dust. Remove any oil or grease.

C. Apply paint with mechanical equipment to produce pavement markings of dimensions indicated with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 16 mils.

D. Paint shall not be applied at air temperatures below 40 degrees F.

FIELD QUALITY CONTROL

A. The Contractor will provide testing services of a soils engineer and/or independent laboratory for this project.

B. Upon completion of each test and/or inspection, promptly distribute copies of test or inspection reports to the A/E.

C. Testing Requirements:

1. Section 410.03.02 Part A - Acceptance Testing

STORM UTILITY DRAINAGE PIPING

PART 1 - GENERAL

1.1 SUMMARY

A. Provide storm sewerage system in accordance with provisions of the Standard Specifications for Road and Bridge Construction, June 1, 2019, Kentucky Transportation Cabinet (KYTC) were shown on the Drawings, and as specified herein.

1.2 SUBMITTALS

A. Product data: Within 15 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:

1. Materials list of items proposed to be provided under this Section.

2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements.

1.3 UTILITIES

A. Before starting excavation, establish location and extent of underground utilities occurring in the work area. Utilities shown on the plans indicate the best knowledge of the Owner with regard to general location and nature of the facilities in the area. They are shown for the convenience of the Contractor and shall not relieve the Contractor of the responsibility to properly investigate and protect the utilities. The Contractor shall remain responsible for damages to existing utilities whether indicated on the plans or not.

B. The Contractor shall notify the Kentucky 811 Before You Dig (B.U.D.) 800/752-6007 (811) and the Owner or his/her site representative 48 hours prior to start of work.

PART 2 - PRODUCTS

2.1 PIPING MATERIALS

A. Reinforced Concrete Pipe (RCP):

1. Comply with ASTM C 76.

2. Minimum Class III and as specified in Section 810 of the Standard Specifications.

3. Use tongue and groove joints wrapped with engineering fabric, unless a rubber O-ring or profile gasket complying with ASTM C 443 is specified.

B. Polyvinyl Chloride Pipe (PVC):

1. Solid wall PVC Pipe complying with ASTM D 3034 or ASTM F 679.

2. PVC plastic meeting ASTM D 1784, Cell Classification 12454.

3. SDR 26: Minimum pipe stiffness of 115 psi (pipe 4" to 15" diameter).

4. Pipe stiffness per ASTM D 2412, 46 psi (pipe 18" to 27" diameter).

C. High Density Polyethylene Pipe (HDPE):

1. AASHTO M 294, Type S corrugated exterior and smooth interior.

1.1. Pipe does not have to meet the AASHTO M 294 Section 6 - Materials; Requiring pipe and fittings be made of virgin PE compounds. A percentage of recycled material may be utilized. All remaining requirements as set forth in AASHTO M 294 shall be met or exceeded.

2. ASTM D 3350 minimum resin Cell Classification 335420 C.

3. Minimum pipe stiffness at 5% deflection according to ASTM D 2412.

4. Integral bell and spigot joints with elastomeric seals complying with ASTM F 477.

5. Minimum 5% deflection of the average inside diameter by testing after installation by pulling 9 arm deflection mandrel, complying with applicable ASTM Standards, through sewer by hand.

D. Pipe Drains, Underdrains and French Drains:

1. Comply with Article 601.02 of the Standard Specifications for the type, class, and size of pipe drains

2.2 MANHOLES, INLETS AND DRAINAGE STRUCTURES

A. Manholes, Inlets, and Drainage Structure:

1. Small drainage structures materials shall comply with Section 710.02 of the Standard Specifications and details in the Drawings. Pipe stubs when specified for future connections shall consist of a one-foot section of belled pipe of the specified diameter inserted in a watertight connection and an airtight plug.

B. PVC Drainage Structure:

1. Nylonplastic drain basins and grates or Approved Equal Product.

C. Cast in Place Concrete:

1. Concrete: To be in compliance with Section 501 in the Standard Specifications

D. Non-Shrink Grout:

1. Comply with Department's List of Approved Materials

E. Granular Foundation:

1. Granular foundation material shall be gravel or crushed stone sized primarily within a 1" to maximum 3" range. Quality shall consist of sound durable aggregate particles reasonably free of objectionable deleterious materials.

F. Bedding, Haunching and Backfill:

1. Bedding, Haunching and Backfill material as specified in Section Trenching and Backfilling.

G. Select Granular Backfill:

1. Select aggregate in accordance with Section 805, Structural Granular Backfill

2.3 CONNECTIONS

A. Connect nonpressure, gravity-flow drainage piping to building's storm building drains as shown on the Drawings.

B. Make connections to existing piping and underground manholes.

1. New connection:

a. Use commercially manufactured wye fittings for piping branch connections with sizing as show in the plans.

2. Connection to Existing Storm Sewer

a. Use commercially manufactured wye or insertable tee fittings to the existing piping. Remove section of existing pipe; install wye fitting into existing piping, and encase entire wye fitting, plus 6-inch overlap, with not less than 6 inches of concrete complying with Section 501, or install insertable tee per manufacturer's recommendations.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions are corrected.

B. Field Measurements - Make necessary measurements in the field to assure precise fit of items in accordance with the approved design.

3.2 INSTALLATION

A. Excavation and backfilling for sewers, collection lines, manholes, structures and appurtenances, shall comply with governing Federal, State laws and municipal Ordinances as may be necessary to protect life property or the Work. In any event, the minimum protection shall conform to the rules and regulations of the Occupational Safety and Health Act (OSHA) Standards for Construction.

1. Connections of dissimilar types of pipe when joined outside of a manhole or other structure shall be joined with suitable adapters, such as: Fernco Flexible Coupling, Fernco, Inc. (Davison, Michigan), Flexi-Seal Coupling, Mission Rubber Co. (Corona, California), or Approved equal.

C. Foundations and Bedding:

1. All sewer pipe shall be laid on an aggregate bedding, having a minimum thickness of 4 inches below the pipe and extending to the mid point of the pipe as shown on the Drawings.

2. Compaction requirements for foundation, bedding and haunching shall be based upon the material utilized in accordance with the Section "Trenching and Backfilling" of these Specifications.

D. Gravity Storm Sewer Installation:

1. Clean pipe interior and joints prior to installation. Keep pipe clean during construction.

2. Begin at the lowest point in the line. Lay groove or bell and pointing upstream unless otherwise specified.

3. Use a saw to cut ends of pipe flush with inside wall of manholes and structures. Do not use hammer or other means to break pipe.

4. Provide manholes as specified in the contract documents.

5. Clean joint surfaces to remove soil or foreign material prior to joining pipe. Assemble joints according to pipe manufacturer's recommendations. Use equipment that does not apply damaging forces to pipe joints.

6. Install cap, plug, or bulkhead at exposed ends of pipe upon completion of construction or whenever pipe installation is not in progress.

E. Backfilling Trenches:

1. Compaction requirements for trench backfill shall be based upon the material utilized in accordance with the "Trenching and Backfilling" of these Specifications and as shown on the plans.

2. After sewers are laid and bedded in an open cut, the trench shall be backfilled to the planned ground surfaces. Unless otherwise permitted by the regulatory authority, not more than three hundred (300) feet of completed pipe shall be left without backfill.

3. In all backfill types, trench shields, sheeted sections and bracing shall in no case be withdrawn before the trench is sufficiently filled to prevent personal injury, or collapse of trench walls, banks, road surfaces, adjacent utility structures, sidewalks or other property, public or private.

4. When PVC pipe is utilized, select granular initial backfill at least twelve (12) inches above the top of the pipe shall be placed utilizing the same type of material used for haunching.

F. Sewer Pipe and Water Main Separation:

1. Horizontal and Vertical Separation of Gravity Sewers from Water Mains shall be in accordance with Kentucky Division of Water, 815 Ky. Admin. Regs. 20:120.

3.3 FIELD QUALITY CONTROL

A. The Contractor will provide testing services of a soils engineer and/or independent laboratory for this project. Trenching and backfilling testing shall be completed in accordance with "Trenching and Backfilling" of these Specifications

SEEDING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes all labor, materials, equipment and supervision required for Seeding and seedbed preparation; fertilization; seeding; and mulching.

PART - 2 PRODUCTS

2.1 FERTILIZER

A. Grade: Commercial grade conforming to current requirements of the Standard Specifications Section 212 Part D, uniform in composition, liquid or dry and free flowing.

B. Formulation: Comply with Kentucky Fertilizer Law.

2.2 SEEDING MATERIALS

A. Grass Seed: Provide fresh, clean, new-crop seed complying with tolerance for purity and germination established by Official Seed Analysts of North America.

B. Seed Mix: Commercial mix consisting of the following grass species specified in Section 212.03.03 Part A: Seed Mixtures for Permanent Seeding

C. Each seed mix bag shall bear supplier's "blue tag" certification.

2.3 STRAW MULCH

A. If Hydro seeding is not performed, provide clean, weed free threshed straw of wheat, rye, or oats. Straw harvested after killing frost or during dormant periods as well as discolored, weathered, rotted, brittle, moldy, or caked materials is unacceptable.

B. Fifty percent (50%) of fiber of each straw bale shall be ten inches (10") or longer.

PART - 3 EXECUTION

3.1 EQUIPMENT

A. Cultipacker: Use a pull-type cultipacker with individual rollers or wheels. The cultipacker must produce a corrugated surface on the area being compacted. Operate the cultipacker separately from all other operations, and do not attach the cultipacker to the seeder or disk, unless combined cultipacker seeder is manufactured for such is utilized.

B. Disk: When preparing a seedbed on ground having heavy vegetation, use a disk with cutaway blades. Use weights or other provisions to obtain proper cutting depth.

C. Drop Seeder: Use one piece of equipment containing pulverizer rollers in front of the seed tubes, ground driven seed meters, maximum seed tube spacing of 3 inches delivering seed between the pulverizer rollers and packer wheels, and packer wheels that press and firmly pack seed into the soil.

D. Endgate Cyclone Seeders: Endgate cyclone seeders must be suitably mounted. Movement must be provided by mechanical means. The seed drops through an adjustable flow regulator onto a rotating, power driven, horizontal disk or fan.

E. Field Tiller: Tiller designed for the preparation of the seedbed as specified.

F. Gravelly Seeders: Gravelly seeders must provide agitation of the seed, have an adjustable gate opening, and uniformly distribute seed on the prepared seedbed. Use a seed hopper equipped with baffle plates spaced no more than 2 feet apart. The baffle plates must extend from the agitator shaft to within approximately 2 inches of the top of the seed hopper. Wind guards are required to facilitate seeding when moderate wind conditions exist. Place wind guards in front or in back (or both) of the seed outlet and extend them to near the ground line.

G. Hydraulic Seeder: Use hydraulic seeding equipment with a pump rated at no less than 100 gallons per minute. Inoculant, seed, and fertilizer may be applied in a single operation. The equipment must have a suitable working pressure and a nozzle adapted to the type of work. Supply tanks must have a means of agitation. Calibrate tanks and provide them with a calibration stick or other approved device to indicate the volume used or remaining in the tank.

H. Mowers: Shall be rotary, flail, disk, or sickle type. Do not use mowers that bunch or windrow the mowed material.

I. Mulch Anchoring Equipment: Equipment designed to anchor straw or hay mulch into soil by means of dull blades or disks. It shall have flat blades or disks, may have cutaway edges and must be spaced at approximately 8 inch intervals. The mulch anchoring equipment must be pulled by mechanical means and have sufficient weight to crimp the straw.

J. Native Grass Seed Drill: Use a native grass seed drill designed to provide uniform distribution of native grass and wildflower seeds. Provide separate seed boxes to apply both small seeds as well as fluffy bearded seeds. If a no-till attachment is specified, use an attachment of the same manufacturer as the drill.

K. Rotary Tiller: Equipment with rotary-type blades designed for the preparation of seedbed as specified.

L. Silt Seeder: Use a gas, diesel or electric powered mechanical silt seeder that is capable of cutting vertical grooves a maximum of 1/4 inch deep into the soil with a maximum horizontal blade spacing of 3 inches, deposits metered seed directly after the formation of the vertical grooves, and the seeder contains packer wheels that press and firmly pack seed into the soil.

M. Straw Mulching Machine: Use a machine to uniformly apply mulch material over the desired area without excessive pulverization. Excessive pulverization is the general absence of straw longer than 6 inches after distribution.

3.2 SEEDBED PREPARATION

A. Limit preparation of seedbed to areas that will be seeded immediately upon completion.

B. Work areas accessible to field equipment to a depth of no less than 3 inches. Use mechanical rotary tillage equipment for the preparation of seedbed on earth shoulders, urban or raised medians, and rest areas. Prepare by hand areas inaccessible to field machinery, to a depth of no less than 2 inches. Where weed growth has developed extensively, they may be disked into the ground. If weed growth develops sufficiently to interfere with proper seed preparation, mow the weeds and remove them from the project at no additional cost to the Owner.

C. Use crawler type or dual-wheeled tractors for seedbed preparation. Operate equipment in a manner to minimize displacement of soil and disturbance of the design grading. Harrow riding in excess of 4 inches due to operation of tillage equipment prior to rolling with the cultipacker. Roll the area with no less than one pass of the cultipacker prior to seeding.

D. Shape and grade grade to remove rills or gullies, water pockets, undesirable vegetation, and irregularities to provide a smooth, firm, and even surface true to grade and cross-section. Prepare to a fine texture and without soil lumps. Till parallel to the contours.

E. Smooth the seedbed with a cultivator-type tillage tool having a rake bar or a rock rake. Pick up and remove all debris, such as rocks, stones, concrete larger than 2 inches (1/2 inch maximum for lawn seeding), or roots and other objectionable material that will interfere with the seeding operation. A spring tooth cultivator may be used in lieu of a rock picker. Remove the rock by hand after each use of the cultivator; repeat the process until the soil is relatively free of rock.

F. Choose equipment to minimize soil compaction. Operate equipment in a manner to minimize displacement of soil and disturbance of the design grading. Roll the area with at least one pass of the cultipacker. Remove ruts that develop during the sequence of operations before subsequent operations are performed. This must be completed just prior to seeding.

3.3 FERTILIZATION

A. Apply fertilizer immediately prior to seedbed preparation. Incorporate the fertilizer into the top 2 to 3 inches of topsoil during the seedbed preparation. Equipment that results in ruts or excessive compaction will not be allowed.

B. Do not apply fertilizer with native grass, wildflower, or wetland seeding.

3.4 CONVENTIONAL SEEDING

A. Do not use wet seed or seed that is moldy or otherwise damaged in transit or storage.

B. Use methods and procedures consistent with equipment manufacturer's recommendations; however, do not operate ground-driven equipment at speeds greater than 10 mph.

C. On all areas accessible to machinery, sow seed with a gravity seeder, endgate cyclone seeder, or seed drill. Each application of seed shall overlap the previous application by one-half (1/2) the application width to insure double coverage.

D. On areas inaccessible to field machinery, the use of hand-operated cyclone seeders will be allowed, but no other hand-seeding methods will be accepted.

E. All seeded areas will have one pass with a roller or cultipacker to firm the soil.

F. Sow seed mix at the rate of 8-10 lbs. per 1000 sq. ft.

3.5 HYDRAULIC SEEDING

A. Seed Application, Fertilizing and Mulching:

1. Application Process:

a. Combination: Place all material, seed, fertilizer, mulch, and tackifier (if applicable) in hydraulic mulching equipment specifically manufactured for hydraulic seeding.

b. Separate: At the Contractor's option and at no additional cost to the Owner, the hydraulic seeding, fertilizing, and mulching may be undertaken separately. If operations are undertaken separately, complete fertilizing and mulching application within 24 hours of completing seeding work. Do not separate the applications if inclement weather is forecasted within 24 hours of the scheduled application period.

2. Ensure the hydraulic equipment, pump, and application process do not damage or crack seeds.

3. Mix materials with fresh potable water using a combination of both recirculation through the equipment's pump, and mechanical agitation to form a homogeneous slurry.

4. Apply mixture within 1 hour after seed and fertilizer are placed in the hydraulic seeder.

5. If necessary, dampen dry, dusty soil, to prevent balling of the material during application.

6. Apply the slurry evenly over all specified areas at component material rates specified.

a. Wood Cellulose Mulch:

1) Mulch: Minimum 3,000 lb./acre dry weight.

2) Tackifier: Minimum 50 lb./acre.

b. Bonded Fiber Matrix: Minimum 3,000 lb./acre dry weight.

c. Mechanically bonded Fiber Matrix: Minimum 3,000 lb./acre dry weight.

7. Provide documentation to ensure final application rate.

3.6 MULCHING

A. Protect seeded areas against erosion by spreading specified mulch after completion of seeding operations.

B. Spread uniformly to form a continuous blanket and apply at a rate of one and one half (1 1/2) tons per acre.

C. Anchor mulch by crimping into the soil a minimum depth of two inches (2").

D. Provide and install additional erosion control materials where shown on the drawings.

3.7 WATERING

A. Provide water, equipment, transportation, water tanker, hoses, and sprinklers.

B. Use enough water to keep the soil and mulch moist to a depth of 1 inch and ensure growth of the seed. For turfgrass seeding areas, sufficiently water to keep the soil moist for a minimum of 21 days. If natural rainfall is adequate to keep the soil and mulch moist, artificial watering may not be needed.

3.8 RE-SEEDING

A. When all work related to seeding, fertilizing, and/or mulching has been completed on an area, and is washed out or damaged, re-seed, fertilize, and/or mulch the area as necessary at no additional cost to the Owner.

B. The contractor shall be responsible for maintaining erosion control throughout construction.

3.9 CLEANUP AND PROTECTION

A. All work related to clean up throughout the project and upon completion is the responsibility of the Contractor, at no additional cost to the Owner.

B. Restore to proposed grade, reseed, and remulch all eroded and/or washed out areas which develop prior to acceptance of seed.

C. During seeding work, keep pavements clean and work area in an orderly condition.

D. Remove all excess materials, debris, and equipment upon completion of work.

E. Repair any damage resulting from seeding operations.

F. Upon completion of job, clean-up all debris, caused by work, and excess material and leave area within contract limits in a neat and clean condition. Remove hydraulic slurry and other excess debris related to seeding operations from buildings, landscaping, mulch, pavement, signs, sign posts, and any other areas not specified for application, at the end of each day.

3.10 ACCEPTANCE AND WARRANTY

A. Acceptance will occur, provided seeded areas are in a live, healthy, growing, and well-established condition without eroded areas, bare spots, weeds, undesirable grasses, disease, or insects. Any areas having less than 90% coverage will not be accepted.

B. Reseed and maintain all seeded lawn areas which do not meet the requirements of this Section at the time of final inspection. Reseeded areas will be accepted no sooner than 90 days from the date that reseeding occurred.

C. Replacement work shall be as specified for original seeding.

D. Replacement work shall be reinspected before acceptance.

ACEE'S NEIGHBORHOOD MARKET & DELI

1000 HOLIDAY LANE, FULTON, KY 42041

GOLIGHTLY & LONG PROPERTIES LLC

5820 CAIRO ROAD

PADUCAH, KY 42001

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REVISION HISTORY

MARK DESCRIPTION DATE APPR

ISSUED FOR

BIDS

LICENSE EXPIRES 06/30/25

Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

DESIGNED DRAWN

SCH SCH/TRC

FIELD FIELD BOOK

SPS N/A

CHECKED CHECK DATE

SCH 03/16/2025

SHEET TITLE

SITE SPECIFICATIONS

PROJECT NO. 23-7018

DRAWING ISSUED DATE: 03/17/2025

SHEET

C003

Quincy, IL Hannibal, MO

Burlington, IA Galena, IL Pella, IA

Carbondale, Illinois

61831-1405

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SITE WATER DISTRIBUTION

PART - 1 GENERAL

1.1 SUMMARY

- A. All work shall be in accordance with standards of the City of Fulton.
- B. All work on public right of way and water main connections will be under the direct supervision of the City of Fulton Representative, who shall have final approval of all work and materials necessary to complete this portion of the work.

PART - 2 PRODUCTS

2.1 WATER PIPE MATERIALS

- A. Polyvinyl Chloride (PVC) Pipe: Comply with AWWA C900 with gray iron pipe equivalent outside diameters.
1. Minimum Wall Thickness:
- a. 4 inch through 24 inch sizes: **DR 18.**
2. Joint Type: Use push-on joint type, except as otherwise specified in the contract documents or as authorized by the Engineer.
- a. Push-on: ASTM D3139 with ASTM F477 Gaskets.
- b. Integral Restrained Joint: Restrained Joints at Pipe to Pipe Connections: EBBA Iron Series 1900, Eagle Loc 900 as manufactured by JM Eagle, CertaLoc restrained joint, or Approved Equal.
- c. Mechanical Restrained Joint: Restrained Joints at Fittings: EBBA Iron Megalug Series 2000PV or Approved Equal.
3. Markings on Pipe:
- a. Name of manufacturer, Size and class, Spigot insertion depth gauge, National Sanitation Foundation (NSF) seal.
- B. Ductile Iron Pipe (DIP):
1. Minimum Thickness Class:
- a. 4 inch through 24 inch sizes: Special Thickness Class 52 according to AWWA C151.
- b. Cement-mortar Lined: According to AWWA C104 with asphalt seal coat.
- c. External Coating: Asphalt according to AWWA C151.
2. Joint Type: Use push-on type, unless otherwise specified in the contract documents or as authorized by the Engineer.
- a. Push-on: According to AWWA C111.
- b. Mechanical: According to AWWA C111.
- c. Restrained, Buried: Restrained ductile iron pipe mechanical joints shall be EBBA Iron Megalug Series 1100 or approved equal.
- d. Restrained joints will be required at all fittings, including bends, tees, crosses, fire hydrants, caps and plugs, and all pipes labeled to be restrained.
3. Markings on Pipe:
- a. Name of manufacturer, Size and class, Spigot insertion depth gauge.
- C. Bolts for Water Main and Fittings:
1. Tee-bolts and Hexagonal Nuts for Mechanical Joints: Use corrosion resistant bolts:
2. High-strength, low-alloy steel manufactured according to AWWA C111.
3. Provide ceramic-filled, baked-on, fluorocarbon resin coating for bolts and nuts.
4. Include factory-applied lubricant that produces low coefficient of friction for ease of installation.
- D. Water Service Piping (Sizes less than 4")
1. Materials (as allowed by Jurisdiction or specified in contract documents):
- a. Copper Pipe:
- 1) Comply with ASTM B 88, Wall Thickness: Type K.
- b. PVC Pipe:
- 1) ASTM D 1785, Schedule 80 or ASTM D 2241, SDR 21. Provide solvent weld joints for all pipes.
- c. Polyethylene Pipe:
- 1) Class 200, according to AWWA C901.

2.2 FITTINGS

1. For DIP and PVC Pipe: Comply with AWWA C110 (ductile iron or gray iron) or AWWA C153 (ductile iron).
- a. Joint Type:
- 1) For pipe sizes 16 inches and less, use mechanical joint complying with AWWA C111.
- 2) Provide follower gland using breakaway torque bolts to engage thrust restraint.
- a) Minimum pressure rating same as connecting pipe. For fittings between dissimilar pipes, the minimum pressure rating is the lesser of the two pipes.
- b) Suitable for buried service.
- c) Joint restraint system to be field installable, field removable, and re-installable.
- 3) Use of alternate restraint systems must be approved by the Engineer.
- b. Lined Cement mortar lined according to AWWA C104 with asphalt coating.
- c. Wall Thickness: Comply with AWWA C153.
- d. Gaskets: Comply with AWWA C111.
2. Flange Adapter:
- a. Body: Ductile iron complying with ASTM A 536.
- b. End Rings (Follower Rings): Ductile iron complying with ASTM A 536.
- c. Gaskets: New rubber compounded for water service and resistant to permanent set.
3. Pipe Coupling:
- a. Center Sleeve (Center Ring): Steel pipe or tubing complying with ASTM A 53 or ASTM A 512, or formed carbon steel with a minimum yield of 30,000 psi.
- b. End Ring (Follower Ring): Ductile iron complying with ASTM A 536, or steel meeting or exceeding the requirements of ASTM A 576, grade 1010-1020.
- c. Gaskets: New rubber compounded for water service and resistant to permanent set.
- d. Bolts and Nuts: High strength, low alloy corrosion resistant steel.

2.3 VALVES

- A. General:
1. The opening direction is counterclockwise as viewed from the top, unless otherwise specified in the contract documents or as directed by the Jurisdiction.
- B. Gate Valves:
1. Standards: Comply with AWWA C509 (gray iron or ductile iron) or AWWA C515 (ductile iron) and NSF 61.
2. Stem Seals: Double O-rings permanently lubricated between seals. Lubricant certified for use in potable water.
3. External Bolts and Hex Nuts: Stainless steel according to ASTM A 240, Type 304.
4. Valve shall be manufactured by Mueller, Kennedy, or Water District Approved Equal.
- C. Tapping Valve Assemblies:
1. Tapping Valve: Gate valve complying with AWWA C509 or AWWA C515 and shall be equipped with a raised lip construction in accordance with MSS-SP 60 to provide for centering of valve on tapping saddle.
2. Sleeve:
- a. Minimum 14 gauge. Stainless steel according to ASTM A 240, Type 304. Working pressure 150 psi. Must fully surround pipe, Flanged with dimensions and drillings according to AWWA C110 or ANSI B16.1 class 125.

2.4 STOPS

- A. General:
1. Corporation Stops:
- a. 1" AWWA (Mueller "CC") threaded inlet, 1" Flared copper pipe outlet.
- b. Acceptable Materials: Mueller H-15000, or Approved Equal.
2. Curb Stops:
- a. 1" Inlet and Outlet flared copper.
- b. Acceptable Material: Mueller H-15204, or Approved Equal.
- 2.5 BOXES AND LIDS
- A. General:
1. Curb Boxes:
- a. Cast Iron construction, extension type with one piece lid, stationary shut off rod, and arch type box.
- b. Acceptable Materials: Mueller H-10314 Series, or Approved Equal.
2. Valve Boxes:
- a. Cast Iron construction, Two section screw type with availability to add extensions to increase lengths adequate to bring up to finished grade, Inside diameter of 5 1/4". Covers with "WATER" cast into the lid, Factory Finish: Asphalt coating
- b. Acceptable Materials: Tyler Model 564S, or Approved Equal.

2.6 FIRE HYDRANT ASSEMBLY

- A. Material: Comply with AWWA C502.
- B. Hydrant Manufacturers: Mueller 5 1/2" Super Centurion.
1. Breakaway Items: Stem coupling and flange.
2. Inlet Nominal Size: 6 inch diameter.
3. Inlet Connection Type: Mechanical joint.
4. Hose Nozzles: Two, each 2 1/2 inches in diameter.
5. Storz Connection: Integral 4 1/2" connection conforming to AWWA specifications
6. Direction of Opening: Counterclockwise, unless otherwise specified.
7. Color: Red.
- a. Mueller Super Centurion or approved equal

2.7 CONCRETE THRUST BLOCKS

1. Concrete shall be minimum 3,500 psi compressive strength.
2. Comply with the contract documents for dimensions and installation of thrust blocks.

2.8 TRACER WIRE AND WARNING TAPE

1. Water Pipe in Open Cut:
- a. Solid Single Copper Conductor:
- 1) Size: #12 AWG. Insulation Material: Linear low-density polyethylene (LLDPE) installation suitable for direct burial applications, Insulation Thickness: 0.030 inches, minimum, Insulation Color: Blue, Tensile Strength: 150 pounds, minimum, Operating Voltage: Rated for 30 volts,
- b. Bimetallic Copper Clad Steel Conductor:
- 1) Size: #12 AWG. Operating Voltage: Rated for 30 volts, Copper Cladding: 3% of conductor diameter, minimum, Insulation Material: High density, high molecular weight polyethylene, Insulation Thickness: 0.045 inches, minimum, Insulation Color: Blue, Tensile Strength: 1,100 pounds, minimum
2. Directional Drilling/Boring
- a) Size: #12 AWG. Operating Voltage: Rated for 30 volts, Copper Cladding: 3% of conductor diameter, minimum, Insulation Material: High density, high molecular weight polyethylene, Insulation Thickness: 0.045 inches, minimum, Insulation Color: Blue, Tensile Strength: 1,100 pounds, minimum

PART - 3 EXECUTION

3.1 PREPARATION AND LAAYOUT

- A. Before starting excavation, establish location and extent of underground utilities occurring in the work area. Utilities shown on the plans indicate the best knowledge of the Owner with regard to general location and nature of the facilities in the area. They are shown for the convenience of the Contractor and shall not relieve the Contractor of the responsibility to properly investigate and protect the utilities. The Contractor shall remain responsible for damages to existing utilities whether indicated on the plans or not.
- B. The Contractor shall notify the B.U.D. (B11) service and the Owner or his/her onsite representative 48 hours prior to start of work.
- C. Field Conditions: Verify location and elevation of existing facilities were connections are to be made.

3.2 GENERAL

- A. Do not use deformed, defective, gouged, or otherwise damaged pipes or fittings.
- B. Keep trench free of water. Clean pipe interior prior to placement in the trench.
- C. Install pipe with fittings and valves to the lines and grades specified in the contract documents.
- D. Clean joint surfaces thoroughly and apply lubricant approved for use with potable water and recommended by the manufacturer.
- E. Push pipe joint to the indication line on the spigot end of the pipe before making any joint deflections.
- F. Limit joint deflections to one degree less than pipe manufacturer's recommended maximum limit.
- G. Tighten bolts in a joint evenly around the pipe.
- H. Set tops of valve boxes to finished grade, unless otherwise directed by the Engineer.
- I. Check the working order of all valves by opening and closing through entire range. Before opening the valves, check with the Jurisdiction on operating requirements.
- J. Keep exposed pipe ends closed with rodent-proof end gates at all times when pipe installation is not occurring.
- K. Close the ends of the installed pipe with watertight plugs during nights and non-working days.
- L. Do not allow any water from the new pipeline to enter the existing distribution system piping until testing and disinfection are successfully completed.

3.3 INSTALLATION

- A. Excavation and backfilling for water lines and appurtenances, shall comply with governing Federal State laws and municipal Ordinances as may be necessary to protect life, property, or the work. In any event, the minimum protection shall conform to the rules and regulations of the Occupational Safety and Health Act (OSHA) Standards for Construction.
- B. Line and Grade:
1. Reference points and bench marks for controlling lines and grades are shown on the Drawings. All additional horizontal and vertical measurements that will be required to complete the work, in addition to the controlling lines and grades, shall be the responsibility of the Contractor.
- C. Depth of Cover:
1. All water pipe shall be laid with a minimum of three and a half to four (3.5-4.0) feet of cover over the top of the pipe in accordance with 2020 Kentucky State Plumbing Law, Regulations and Code Book.
- D. Trenched Water Pipe:
1. Excavate trench and place bedding and backfill material as specified Trenching and Backfilling specification.
2. Provide uniform bearing along the full length of the pipe barrel. Provide bell holes.
3. Cut the pipe perpendicular to the pipe barrel. Deburr and bevel cut spigot end of the pipe barrel to match factory bevel.
4. Re-mark the insertion line.
5. When connecting to shallow-depth bells, such as on some cast iron fittings or valves, cut the spigot end square to remove factory bevel. Deburr the end and form a partial bevel on the end.
- E. Water Service Stub:
1. Install water service pipe, corporations, stops, and stop boxes according to local Jurisdiction requirements.
2. Install 1 inch and smaller corporation valves tapped at 45 degrees above horizontal at a minimum distance of 18 inches from pipe bell or other corporation. Install 1 1/2 inch and 2 inch corporation valves tapped horizontal a minimum distance of 24 inches from pipe bell or other corporation.

F. Tracer Wire:

1. Install with all buried water main piping per specified details.
2. Begin and terminate the system at all connections to existing mains.
3. Install wire continuously along the lower quadrant of the pipe. Do not install wire along the bottom of the pipe. Attach wire to the pipe at the midpoint of each pipe length; use 2 inch wide, 10 mil thickness polyethylene pressure sensitive tape.
4. Install splices only as authorized by the Engineer. Allow the Engineer to inspect all below grade splices of tracer wire prior to placing the backfill material.
5. Install ground rods adjacent to connections to existing piping and at locations specified in the contract documents or as directed by the Engineer.
6. Bring two wires to the surface at each fire hydrant location and terminate with a tracer wire station.
7. Final inspection of the tracer system will be conducted at the completion of the project and prior to acceptance by the owner. Verify the electrical continuity of the system. Repair discontinuities.

- G. Water Main and Sewer Pipe Separation:
1. Horizontal and Vertical Separation of Gravity Sewers from Water Mains shall be in accordance with Kentucky Division of Water, 815 KY Admin. Regs. 20-120.

3.4 TESTING AND DISINFECTION

- A. Disinfecting: The pipe and appurtenances shall be disinfected in accordance with the Ten State Standards and the following:
1. The Contractor shall take and deliver bacteriological samples to a qualified laboratory or water district for analysis. Cost for sampling and analysis required, will be at the expense of the Contractor.

3.5 FIELD QUALITY CONTROL

1. The Contractor will provide testing services of a soils engineer and/or independent laboratory for this project. Trenching and backfilling testing shall be completed in accordance with "Trenching and Backfilling" of these Specifications

SANITARY SEWERAGE SYSTEM

PART - 1 GENERAL

1.1 SUMMARY

- A. Provide sanitary sewerage system in accordance with the Ten State Standards, latest revision, as shown on the Drawings, and as specified herein.
- 1.2 PERMITS AND ENTRY UPON LANDS
- A. The Owner will obtain permits and/or easements for entering upon private lands, public streets, roads and highways, railroads, etc. to the limits and lines shown on the Plans for construction purposes. The Contractor shall confine his operations to the outlined areas and shall comply with all special instructions shown on the Plans or set forth in the Contract Documents.

PART - 2 PRODUCTS

2.1 PIPE MATERIALS FOR SEWERS

- A. Sewer pipe shall comply with provisions of these specifications for the type, class, strength, coatings and linings of the pipe as shown on the Plans and as described herein:
1. Polyvinyl Chloride (PVC) Pipes 4" to 15" diameter:
- a. Dimensions of pipe and fittings shall conform to ASTM D3034.
- b. Minimum acceptable Standard Dimension Ratio (SDR) shall be 26.
- 2) SDR 26: Minimum pipe stiffness of 115 psi.
- c. PVC plastic meeting ASTM D 1784, Cell Classification 12454 or 12364.
2. Polyvinyl Chloride (PVC) Lateral Service Pipe 4" to 6" diameter:
- a. Dimensions of pipe and fittings shall conform to ASTM D3034.
- b. Minimum acceptable Standard Dimension Ratio (SDR) shall be 26.
- 1) Schedule 40: Minimum pipe stiffness of 100 psi.
1. Polyvinyl Chloride (PVC) Pipes for trenchless installation:
- a. Dimensions of pipe and fittings shall conform to ASTM D3034.
- b. Minimum acceptable Standard Dimension Ratio (SDR) shall be 26.
- 1) SDR 26: Minimum pipe stiffness of 115 psi.
- c. PVC plastic meeting ASTM D 1784, Cell Classification 12454 or 12364
- d. Integral Restrained Joint: AWWA C900 pipe with restraining system manufactured integrally into pipe end.
- B. Joints:
1. PVC Pipe joints for ASTM 3034 and ASTM 679 pipe shall be flexible elastomeric seals per ASTM D 3212 and ASTM F 477 or solvent welded joints per ASTM D 2855 for 4" and 6" only.
- C. Manholes:
1. Manholes shall materials shall comply with applicable Section 710 of the Standard Specifications and details in the Drawings. Pipe stubs when specified for future connections shall consist of a one-foot section of belled pipe of the specified diameter inserted in a watertight connection and an airtight plug.
- D. Cast in Place Concrete:
1. Concrete shall have a minimum 4,000 psi compressive strength. Comply with Section 501 in the Standard Specifications.
- E. Non-Shrink Grout
1. Comply with the Transportation Cabinet's List of Approved Materials.
- F. Granular Foundation:
1. Granular foundation material shall be gravel or crushed stone sized primarily within a 1" to maximum 3" range. Quality shall consist of sound durable aggregate particles reasonably free of objectionable deleterious materials.
- G. Bedding, Haunching and Backfill:
1. Bedding, Haunching and Backfill material as specified in Trenching and Backfilling.
- H. Select Granular Backfill:
1. Select granular backfill shall be in accordance with Section 805 of the Standard Specifications.

2.2 CONNECTIONS

- A. Connect nonpressure, gravity-flow sewage piping to building's as shown on the Drawings.
- B. Make connections to existing piping and underground manholes.
1. New connection
- a. Use commercially manufactured wye fittings for piping branch connections with sizing as show in the plans.
2. Connection to Existing Sanitary Sewer
- a. Use commercially manufactured wye or insertable tee fittings to the existing piping. Remove section of existing pipe; install wye fitting into existing piping; and encase entire wye fitting, plus 6-inch overlap, with not less than 6 inches of concrete complying with Section 501, or install insertable tee per manufacturer's recommendations.
- PART - 3 EXECUTION
- 3.1 SURFACE CONDITIONS
- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions are corrected.
- B. Field Measurements - Make necessary measurements in the field to assure precise fit of items in accordance with the approved design.
- 3.2 INSTALLATION
- A. Excavation and backfilling for sewers, collection lines, manholes, structures and appurtenances, shall comply with governing Federal, State laws and municipal Ordinances as may be necessary to protect life property or the work. In any event, the minimum protection shall conform to the rules and regulations of the Occupational Safety and Health Act (OSHA) Standards for Construction.
- B. Connections to Existing Manholes shall be completed in Standard Specifications, and details in the Drawings.
- C. Connections of dissimilar types of pipe when joined outside of a manhole or other structure shall be joined with suitable adapters, such as:
1. Fernco Flexible Coupling, Fernco, Inc. (Davison, Michigan), Flexi-Seal Coupling, Mission Rubber Co. (Corona, California), Approved equal.
- D. Foundations and Bedding:
1. All sewer pipe shall be laid on an aggregate bedding, having a minimum thickness of 4 inches below the pipe and extending to the mid point of the pipe as shown on the Drawings.
2. Compaction requirements for foundation, bedding and haunching shall be based upon the material utilized in accordance with the Trenching and Backfilling of these Specifications.
- E. Gravity Sewer Installation:
1. Install watertight plug to prevent water from entering the existing sewer system.
2. Clean pipe interior and joints prior to installation. Keep pipe clean during construction.
3. Begin at the lowest point in the line. Lay pipe grove or bell end pointing upstream unless otherwise specified.
4. Use a saw to cut ends of pipe flush with inside wall of manholes and structures. Do not use hammer or other means to break pipe.
5. Provide manholes as specified in the contract documents.
6. Clean joint surfaces to remove soil or foreign material prior to joining pipe. Assemble joints according to pipe manufacturer's recommendations. Use equipment that does not apply damaging forces to pipe joints.
7. Install cap, plug, or bulkhead at exposed ends of pipe upon completion of construction or whenever pipe installation is not in progress.

F. Tees and Laterals:

1. Unless otherwise specified, tees and laterals shall be of the same type and strength material as the main sewer pipe.
2. Lateral pipes and connecting tees or saddles shall be six-inch unless otherwise specified and shall be installed at locations shown on the Plans.
3. Sewer laterals shall be installed at right angles to the sewer main. Trenching and backfilling laterals shall comply with the same requirements as the main sewer pipe. Tee joints. Open ends of laterals or tees shall be closed with air tight plugs which can readily be removed at a later date without breaking the lateral pipe or tee, if required.
4. The Contractor shall be responsible for installing laterals to the depth shown on the Plans.
5. Contractor shall locate tees and ends of laterals by field measurements from manholes and main sewer and submit a record of locations to the Engineer.

G. Backfilling Trenches:

1. Compaction requirements for trench backfill shall be based upon the material utilized in accordance with the Trenching and Backfilling of these Specifications and as shown on the plans.
2. After sewers are laid and bedded in an open cut, the trench shall be backfilled to the planned ground surfaces. Unless otherwise permitted by the regulatory authority, not more than three hundred (300) feet of completed pipe shall be left without backfill.
3. In all backfill types, trench shall be backfilled and tamping shall in no case be withdrawn before the trench is sufficiently filled to prevent personal injury, or collapse of trench walls, banks, road surfaces, adjacent utility structures, sidewalks or other property, public or private.
4. When PVC pipe is utilized, select granular initial backfill at least twelve (12) inches above the top of the pipe shall be placed utilizing the same type of material used for haunching.
- H. Trenchless installation:
1. Select a method of installation that is appropriate for the soil conditions anticipated and will 1) allow the pipe to be installed to the desired line and grade within the specified tolerances; 2) prevent heaving or settlement of the ground surface or damage to nearby facilities; and 3) prevent damage to the carrier pipe and any lining materials within the carrier pipe.

2. Installation Methods:

- a. Auger Boring: A method that utilizes a rotating cutting head to form the bore hole and a series of rotating augers inside a casing pipe to remove the spoil.
- b. Directional Drilling: A method for installing pipe from a surface-launched drilling rig. A pilot bore is formed and then enlarged by back reaming and removing the spoil material. The pipe is then pulled in place.
- c. Open-ended Pipe Ramming: A method that involves driving a steel casing pipe with a percussive hammer. The front end of the casing pipe is open-ended. Spoils are removed from the pipe.
- d. Pipe Jacking: A method in which pipe is pushed into the ground with hydraulic jacks while soil is simultaneously excavated. Excavation is normally completed with a tunnel boring machine.
- e. Microtunneling: A method of pipe jacking using a remote controlled tunnel boring machine.
- f. Utility Tunneling: A method of forming large diameter tunnels. As excavation takes place at the front of the tunnel, a liner is constructed to temporarily support the tunnel. Upon completion of the tunnel, the pipe is pushed in place.
- g. Other: Other methods may be allowed with the Engineer's approval.
3. Line and Grade:
- a. Install pipe at line and grade that will allow the carrier pipe to be installed at its true starting elevation and grade within the specified maximum alignment deviation of the pipe centerline.
- b. When no deviation tolerances are specified in the contract documents, apply the following maximum deviations to the carrier pipe:
- 1) Gravity Pipe:
- a) 1.0 foot per 100 feet;
- b) 0.2 feet up to 100 feet an additional +/- 0.1 foot per 100 feet thereafter. Backfall in pipe is not allowed.
- 2) Pressurized Pipe:
- a) Horizontally: ± 2.0 feet
- b) Vertically: ± 1.0 foot. Maintain the minimum depth specified in the contract documents.
- c. Greater deviation or interference with other identified facilities may be cause for rejection.
4. Deviation from Line and Grade:
- a. Provided adequate clearance remains for proper installation of the carrier pipe, the Contractor will be allowed to correct deviations in grade of a casing pipe in order to achieve design grade of the carrier pipe by:
- 1) Pouring an invert in the casing pipe
- 2) Shimming the carrier pipe with casing spacers to a uniform grade.
- 3) Installations deviating from the specified tolerances that cannot be adjusted to conform to the specified tolerances may be rejected by the Engineer. If nonconforming installation is not rejected, provide all additional fittings, manholes, or appurtenances needed to accommodate horizontal or vertical misalignment, at no additional cost to the Jurisdiction.
- 4) Abandon rejected installation and place special fill materials, at no additional cost to the Jurisdiction. Replace abandoned installations, including all additional fittings, manholes, or appurtenances required to replace rejected installations.

5. Un-cased Carrier Pipe Installation:
- a. Install pipe by approved methods.
- b. Use a jacking collar, timbers, and other means as necessary to protect the driven end of the pipe from damage.
- c. Do not exceed the compressive or tensile strength capacity of the pipe during pushing or pulling operations.
- d. Fully support bore hole at all times to prevent collapse. Insert pipe as is removed, or support bore with drilling fluid.
- e. Fill space between the inside of the bore hole and the outside of the pipe with special fill material if the space is greater than 1 inch.
6. Pit Restoration
- a. Remove installation equipment and unused materials from the launching and receiving pits.
- b. When the carrier pipe extends beyond the limits of trenchless installation and into the bore pit, place bedding and backfill material according to Trenching and Backfilling specifications.
- c. Place suitable backfill material in the pit. Apply the testing requirements of Trenching and Backfilling specifications.
- d. Restore the site to original condition or better.

I. Cleaning Inspection and Testing:

1. The following tests and inspection of sanitary sewers as specified in the Ten State Standards.
2. Effluent of air under pressure:
- a. After the construction of the sewer mains, manholes and laterals, onto the sanitary system, the municipality shall perform a low pressure air test. Personnel will perform the air test from manhole to manhole.
- b. Air leakage test results shall not be less than the time per inch of pipe diameter per length of sewer pipe as specified in ASTM F1417 - 11a (2015) Standard Practice for Installation Acceptance of Plastic Non-pressure Sewer Lines Using Low-Pressure Air.
- c. If the section of sewer fails to pass the test, it shall be the Contractor's responsibility to locate the problems and make the necessary repairs.
- d. Following the successful passage of a low pressure air test, the Owner will assume responsibility for the operation and maintenance of the sewers with the exception of settlement of the sewer trenches.
3. For flexible thermoplastic pipe, a deflection test shall be performed by pulling 9 arm deflection mandrel, complying with applicable ASTM Standards, through sewer by hand. (Contractor Performed).
4. Manholes shall be air tested for leakage by the Contractor in accordance with ASTM C1244-93, Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test or most recent approved.
5. Manhole preparation:
- a. Plug all lift holes.
- b. Temporarily plug all pipes entering the sewer manhole, taking care to securely brace the pipes and plugs to prevent them from being drawn into the sewer manhole.
6. Test procedure:
- a. The test head shall be placed at the top of the manhole in accordance with the manufacturer's recommendations.
- b. A vacuum of 10 in. Hg shall be drawn on the manhole, the valve on the vacuum line of the test head closed, and the vacuum pump shut off. The time shall be measured for the vacuum to drop to 9 in. Hg.
- c. The manhole shall pass if the time for the vacuum reading to drop from 10 in. Hg to 9 in. Hg meets or exceeds the values indicated in Table 1 of ASTM Designation C 1244 (see below).

TABLE 1 from ASTM Designation: C 1244 Minimum Test Times for Various Manhole Diameters in Seconds												
Depth (ft)	Diameter, in.											
	30	33	36	42	48	54	60	66	72	Time, in seconds		
8	11	12	14	17	20	23	26	29	33			
10	14	15	18	21	25	29	33	36	41			
12	17	18	21	25	30	35	39	43	49			
14	20	21	25	30	35	41	46	51	57			
16	22	24	29	34	40	46	52	58	67			
18	25	27	32	38	45	52	59	65	73			
20	28	30	35	42	50	53	65	72	81			
22	31	33	39	46	55	64	72	79	89			
24	33	36	42	51	59	64	78	87	97			

- d. If the manhole fails the test, the Contractor shall make necessary repairs and retest the manhole. Repairs must be repeated until the manhole passes the test.
- e. If manhole joint sealants are pulled out during the vacuum test, the manhole must be disassembled and the joint sealants replaced.
- f. Manholes will also be subject to visual inspection with all visual leaks being repaired.

J. Sewer Pipe and Water Main Separation:

1. Horizontal and Vertical Separation of Gravity Sewers from Water Mains shall be in accordance with Kentucky Division of Water, 815 Ky. Admin. Regs. 20-120.

3.2 FIELD QUALITY CONTROL

- A. The Contractor will provide testing services of a soils engineer and/or independent laboratory for this project. Trenching and backfilling testing shall be completed in accordance with Section "Trenching and Backfilling" of these Specifications

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ACEE'S NEIGHBORHOOD MARKET & DELI  
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GOLIGHTLY & LONG PROPERTIES LLC  
5820 CAIRO ROAD  
PADUCAH, KY 42001

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CHECKED SCH	CHECK DATE 03/16/2025

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SITE SPECIFICATIONS  
  
PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:  
03/17/2025  
SHEET  
C004



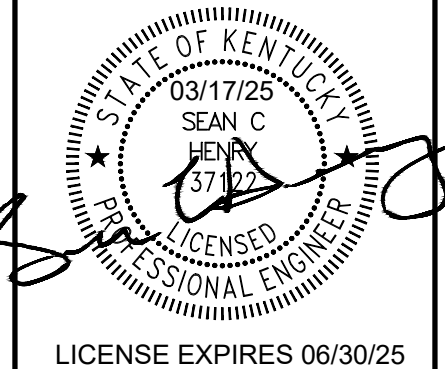


CONTROL POINTS			
POINT #	NORTHING	EASTING	ELEVATION
CP1	3363933.898	3998261.660	414.47
CP2	3363854.543	3998052.670	414.90

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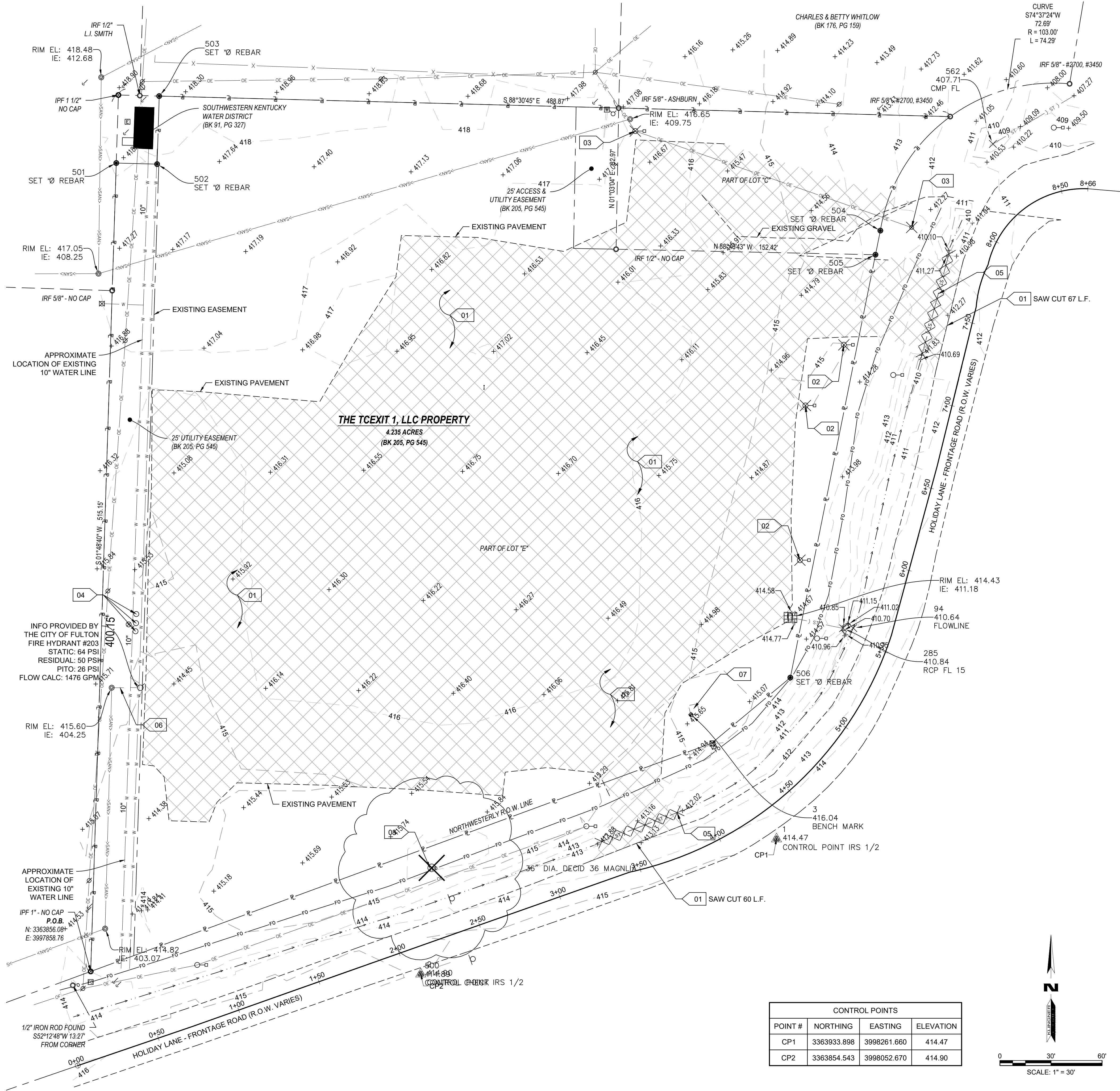
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EXISTING  
CONDITIONS PLAN

PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:  
03/17/2025  
SHEET  
C005





DEMOLITION LEGEND

- PAVEMENT REMOVAL BY CONTRACTOR
- PAVEMENT SAW CUT

DEMOLITION PLAN KEY NOTES

- 01 SAW CUT AND REMOVE & DISPOSE OF PAVEMENT AND BASE COURSE AS SHOWN.
- 02 REMOVE & DISPOSE OF & DISPOSE OF EXISTING LIGHTING, BASE AND FOUNDATIONS.
- 03 REMOVE EXISTING UTILITY POLE AND OVERHEAD ELECTRIC, COORDINATE WITH FULTON ELECTRIC COMPANY.
- 04 REMOVE & DISPOSE OF EXISTING BOLLARDS.
- 05 REMOVE & DISPOSE OF EXISTING STORM CULVERT.
- 06 REMOVE & DISPOSE OF EXISTING SANITARY PIPE.
- 07 REMOVE & DISPOSE OF EXISTING SIGN AND FOUNDATION; FILL EXCAVATION WITH COMPATED DGA (TRENCH BACKFILL)
- 08 REMOVE AND DISPOSE OF TREE AND GRIND STUMP.

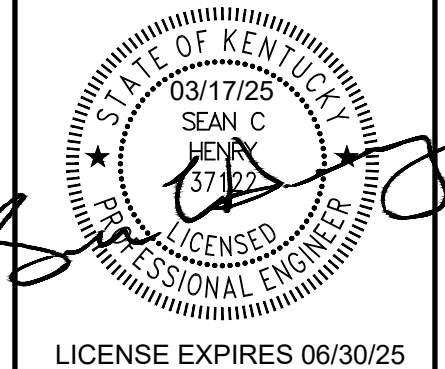
DEMOLITION NOTES

- 1. ALL REMOVALS SHALL BE COORDINATED WITH THE OWNER & PHASING OF THE WORK.
- 2. REMOVE ALL EXISTING TREES, BRUSH, CONCRETE, PAVEMENTS, CURBS, LANDSCAPING AND ALL OTHER EXISTING SITE FEATURES IN CONFLICT WITH PROPOSED IMPROVEMENTS.
- 3. DEMOLITION SHALL INCLUDE REMOVAL AND PROPER DISPOSAL OF MATERIALS.
- 4. CONTRACTOR SHALL PAY ALL PERMIT AND DISPOSAL FEES.

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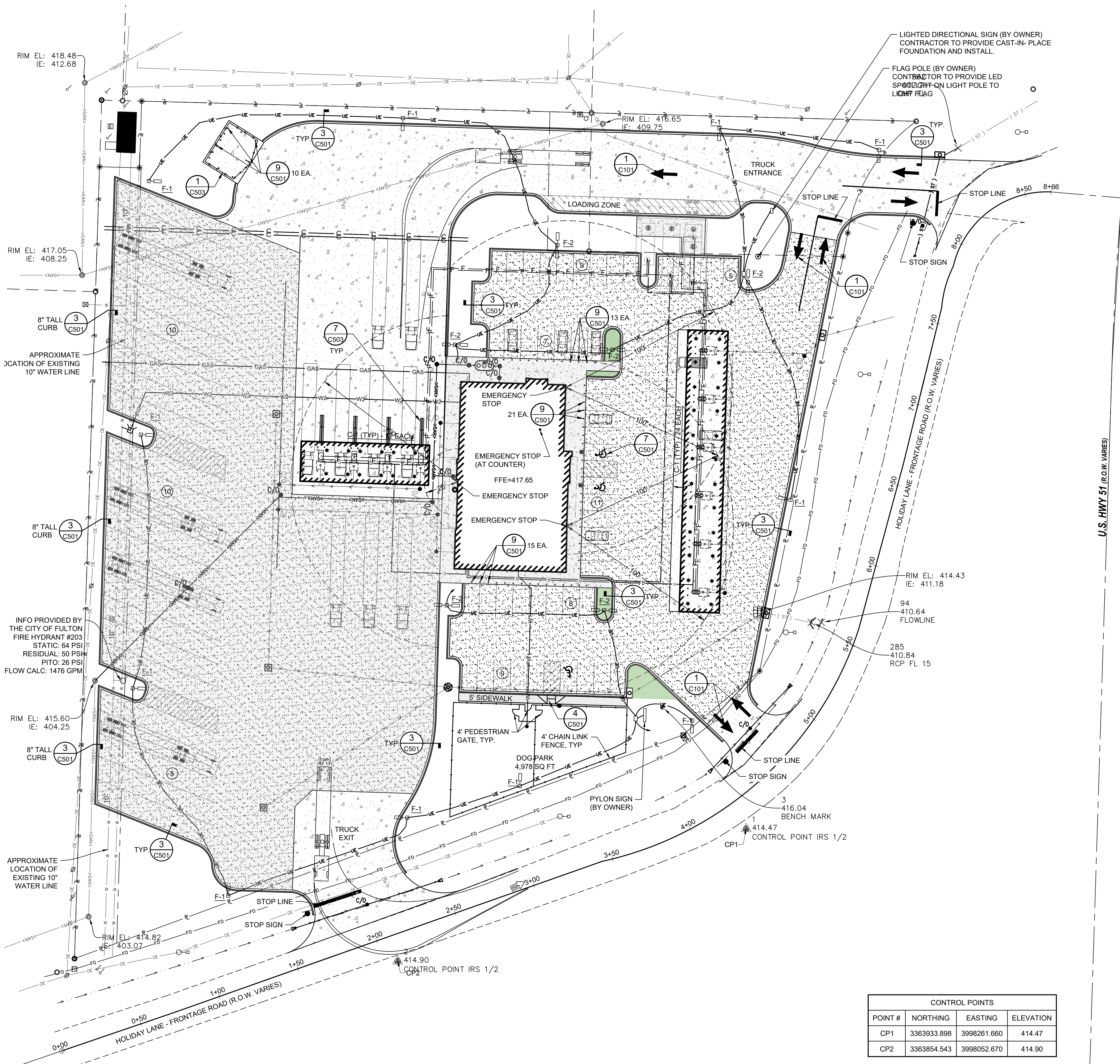
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SITE DEMOLITION PLAN

PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:  
03/17/2025  
SHEET  
CD101





PAVEMENT & LANDSCAPING LEGEND

- 8" PC CONCRETE HEAVY DUTY PAVEMENT (DETAIL 1/C501)
- 5" HEAVY DUTY HMA PAVING (DETAIL 4/501)  
PROVIDE ALTERNATE BID FOR 8" HD CONCRETE PAVING (DETAIL 1/C501)
- 2.5" STANDARD DUTY HMA PAVING (DETAIL 4/C501)  
PROVIDE ALTERNATE BID FOR 5" STD CONCRETE PAVING (DETAIL 1/C501)
- 4" CONCRETE SIDEWALK (DETAIL 1/C501)
- DECORATIVE LANDSCAPING BY OWNER, CONTRACTOR TO PROVIDE 8" OF TOPSOIL.

OWNER:  
NATHAN LONG  
NLONG@ACEES.COM

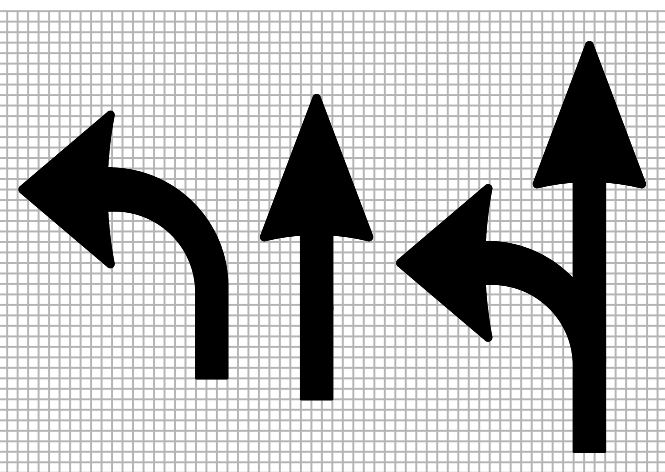
PROPERTY ADDRESS:  
1000 HOLIDAY LANE  
FULTON, KY 42041

CITY OF FULTON - ZONING:  
S - SERVICE DISTRICT

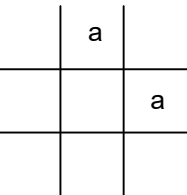
TOTAL PARCEL AREA: 4.24 ACRES  
TOTAL DISTURBED AREA: 168,340 SQ FT (3.89 ACRES)

PAVEMENT JOINT LEGEND

- EXPANSION JOINT (EJ)
- TIED JOINT (TJ OR DJ)
- SAWED JOINT (SJ)



LEGEND HEIGHT	ARROW SIZE	a
6"	SMALL	2.9"
8"	LARGE	3.8"



- NOTES:
- ALL TRAFFIC FLOW ARROWS TO BE SOLID WHITE REFLECTIVE TRAFFIC PAINT, SMALL SIZE.
  - STOP BARS ARE TO BE 18" WIDE.
  - CENTER, LANE, AND SKIPDASH LINES 4" WIDE.
  - THE SPACE BETWEEN ADJACENT LETTERS OR NUMERALS SHOULD BE APPROXIMATELY 3 INCHES FOR 6 FOOT LEGEND AND 4 INCHES FOR 8 FOOT LEGEND

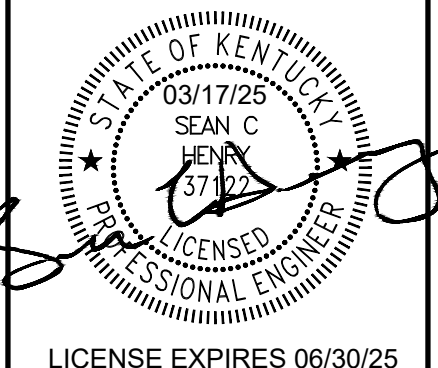
1 TYP. PAVEMENT MARKINGS  
C101 NOT TO SCALE

CONTROL POINTS			
POINT #	NORTHING	EASTING	ELEVATION
CP1	3363933.898	3998261.660	414.47
CP2	3363854.543	3998052.670	414.90

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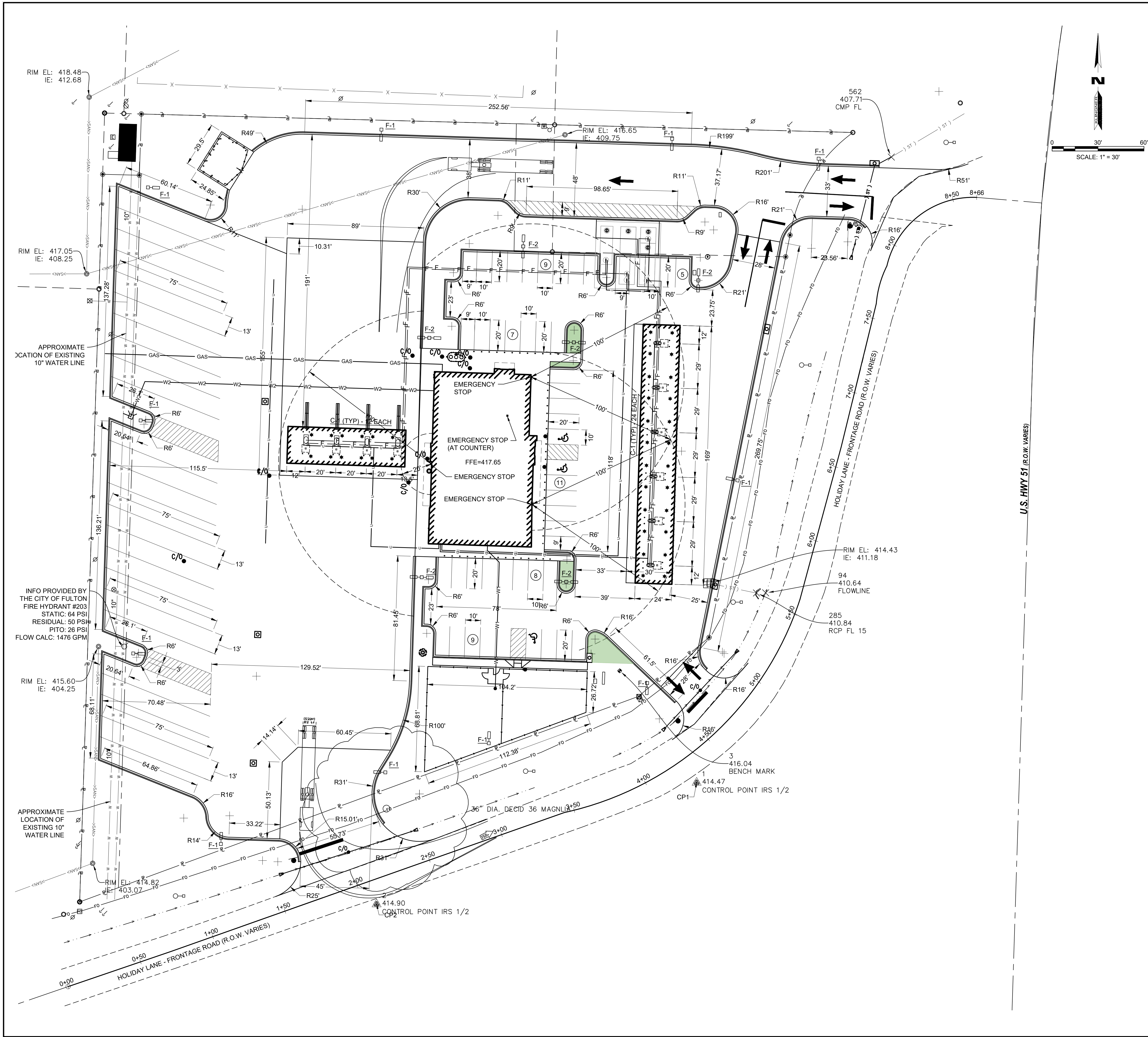


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OVERALL SITE PLAN  
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SHEET  
C101



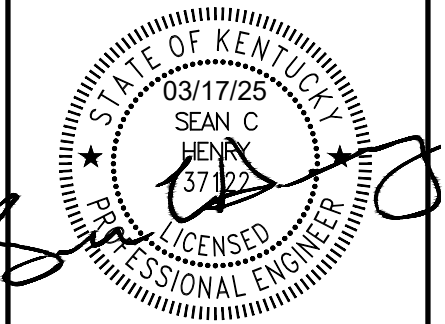


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SHEET TITLE

SITE DIMENSIONAL  
PLAN

PROJECT NO.  
23-7038

DRAWING ISSUED DATE:  
03/17/2025

SHEET

C103



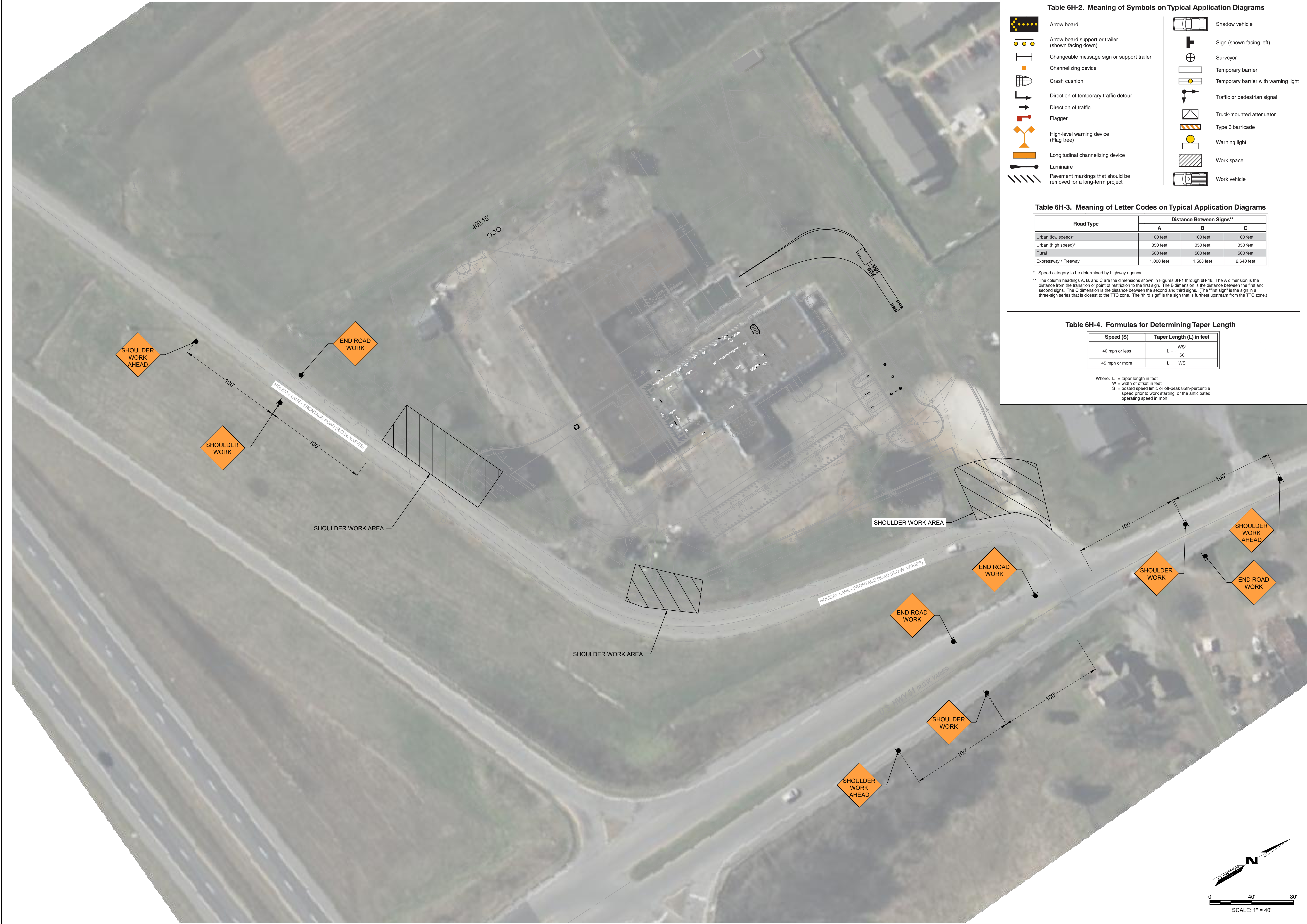


Table 6H-2. Meaning of Symbols on Typical Application Diagrams

Arrow board

Arrow board support or trailer (shown facing down)

Changeable message sign or support trailer

Channelizing device

Crash cushion

Direction of temporary traffic detour

Direction of traffic

Flagger

High-level warning device (Flag tree)

Longitudinal channelizing device

Luminaire

Pavement markings that should be removed for a long-term project

Shadow vehicle

Sign (shown facing left)

Surveyor

Temporary barrier

Temporary barrier with warning light

Traffic or pedestrian signal

Truck-mounted attenuator

Type 3 barricade

Warning light

Work space

Work vehicle

Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	100 feet	100 feet	100 feet
Urban (high speed)*	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

\* Speed category to be determined by highway agency

\*\* The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

Table 6H-4. Formulas for Determining Taper Length

Speed (S)	Taper Length (L) in feet
40 mph or less	$L = WS^2$
45 mph or more	$L = WS$

Where: L = taper length in feet

W = width of offset in feet

S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

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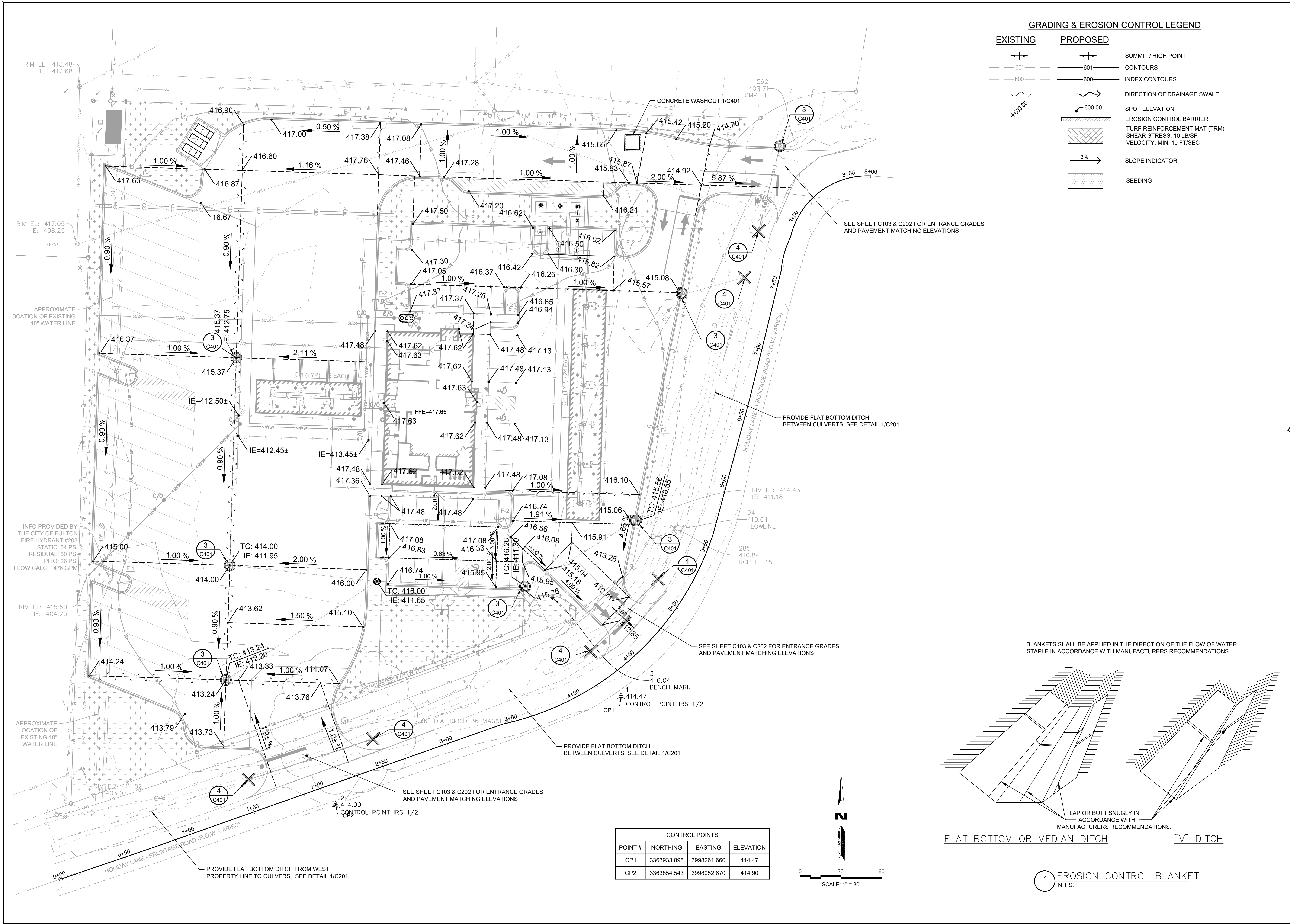
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TRAFFIC CONTROL PLAN	
PROJECT NO. 23-7038	
DRAWING ISSUED DATE: 03/17/2025	
SHEET C103	





GRADING & EROSION CONTROL LEGEND

EXISTING	PROPOSED	
		SUMMIT / HIGH POINT
		CONTOURS
		INDEX CONTOURS
		DIRECTION OF DRAINAGE SWALE
		SPOT ELEVATION
		EROSION CONTROL BARRIER
		TURF REINFORCEMENT MAT (TRM)
		SLOPE INDICATOR
		SEEDING

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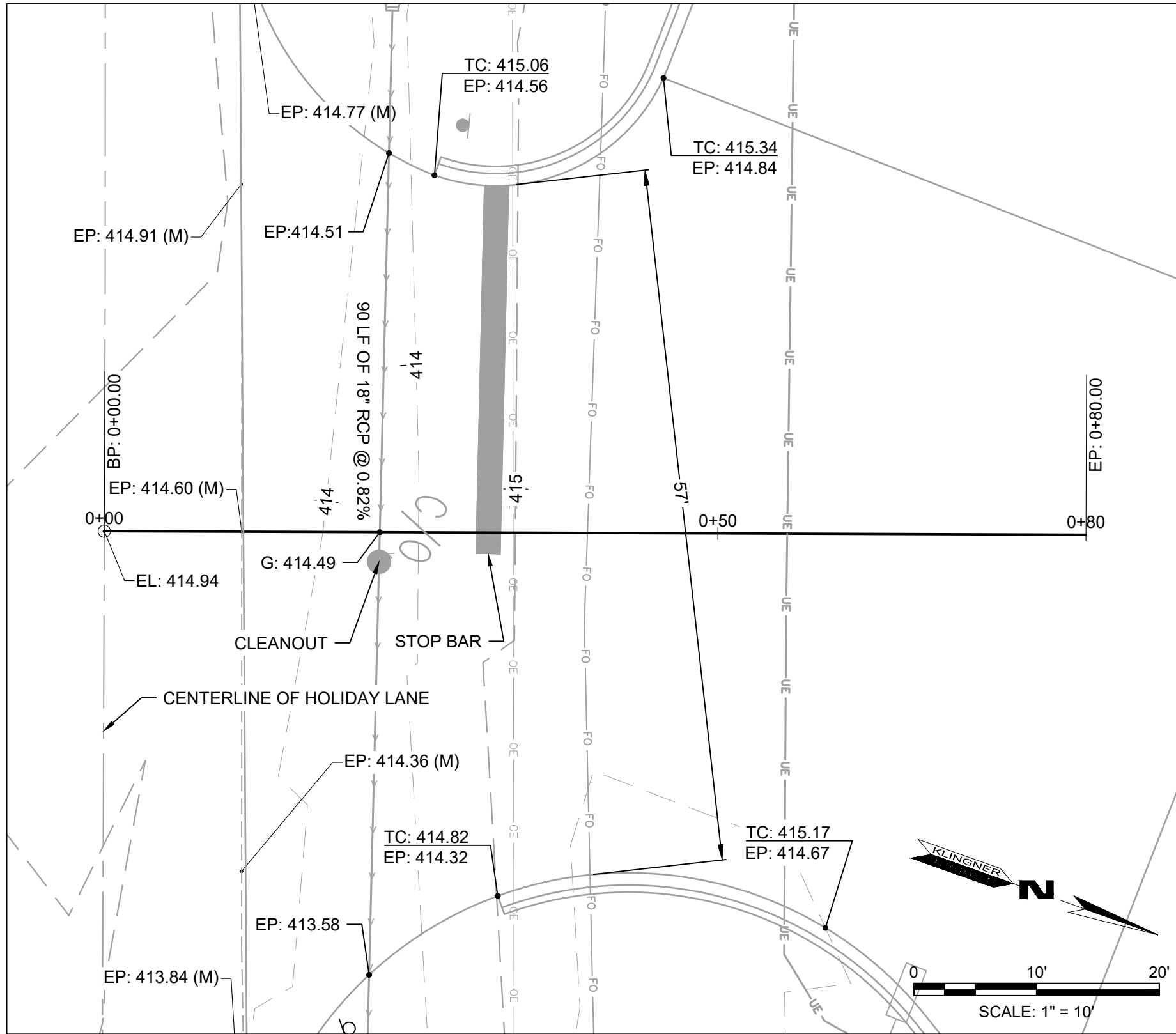
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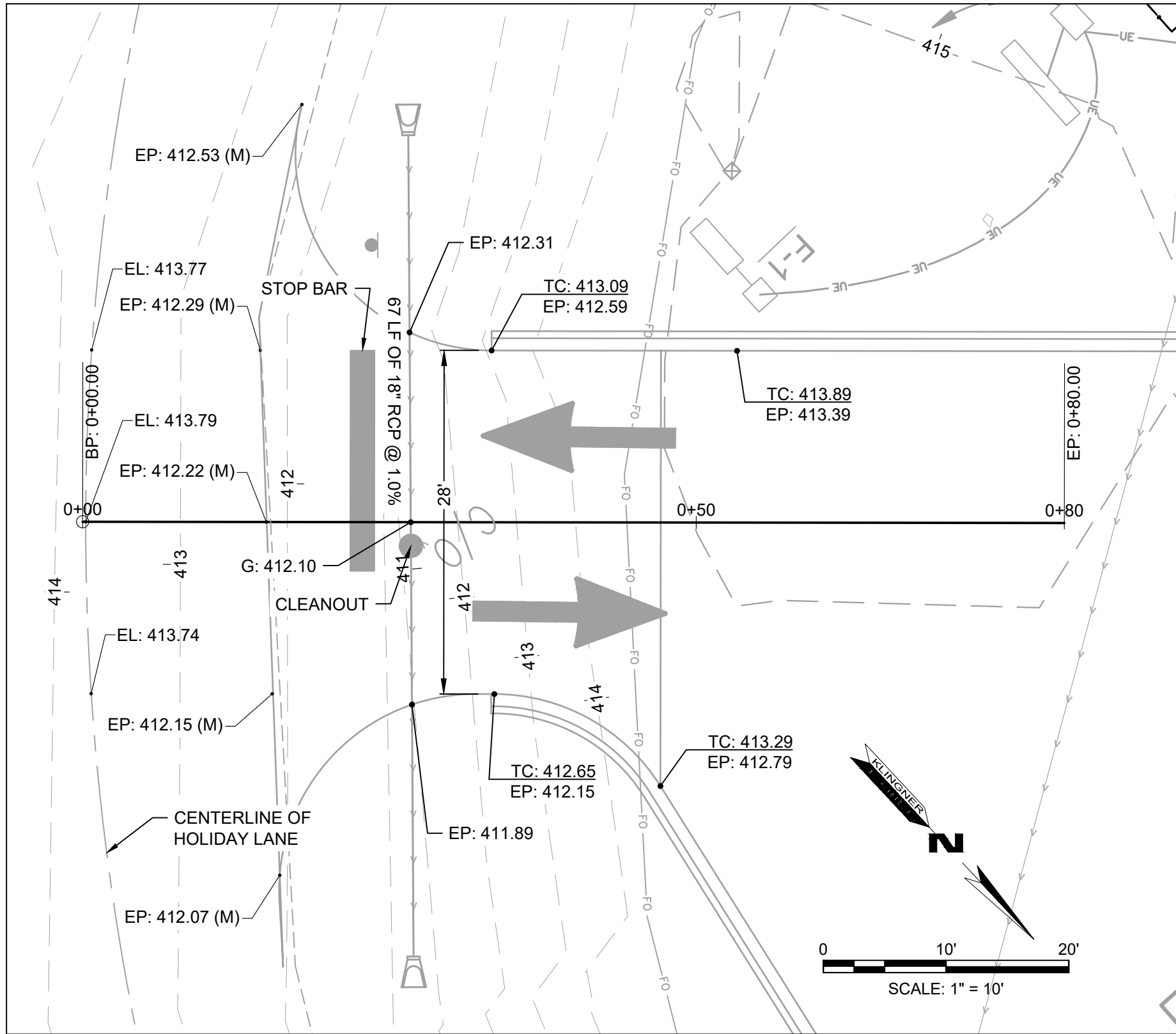
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PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:  
03/17/2025  
SHEET  
C201

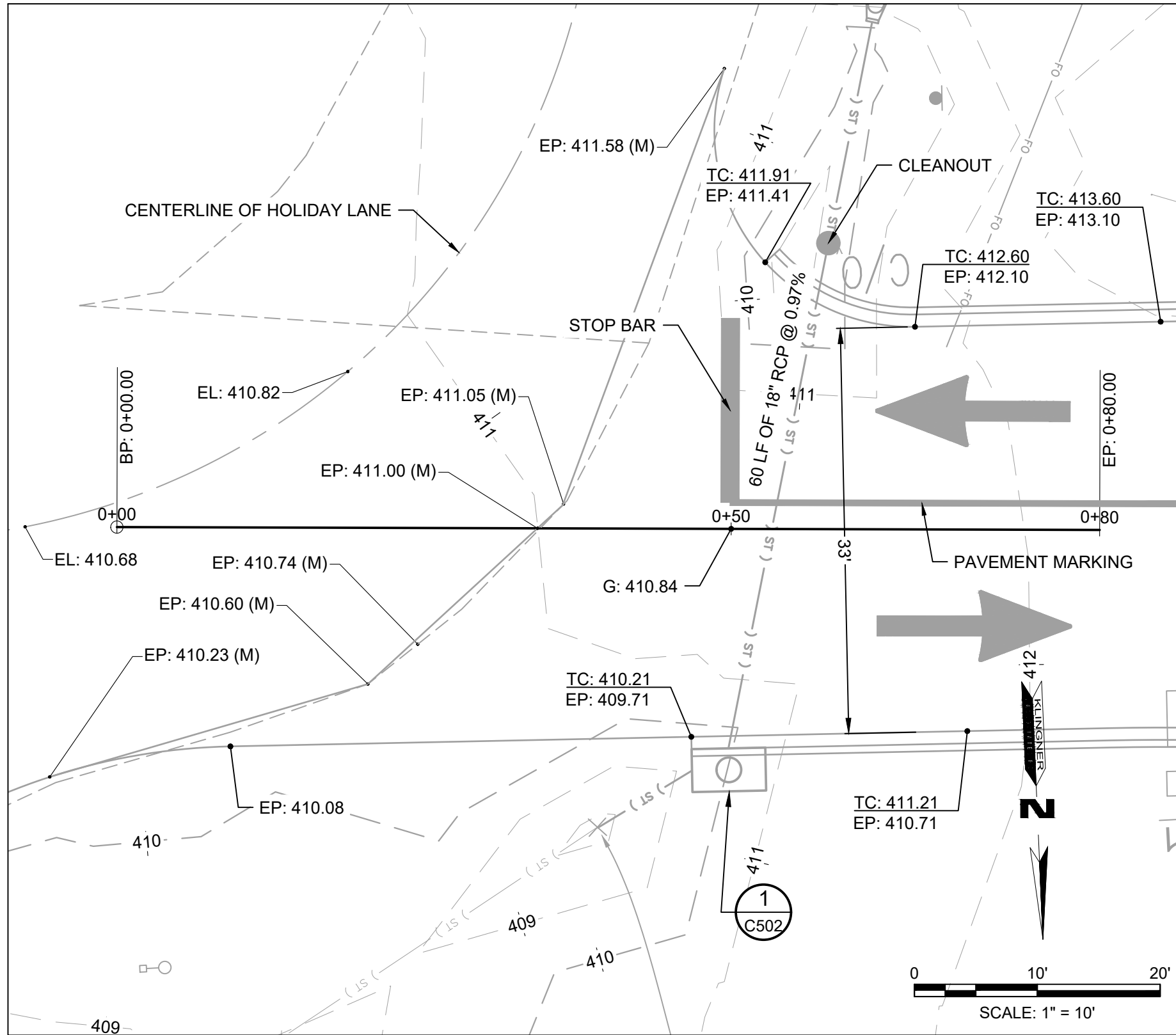




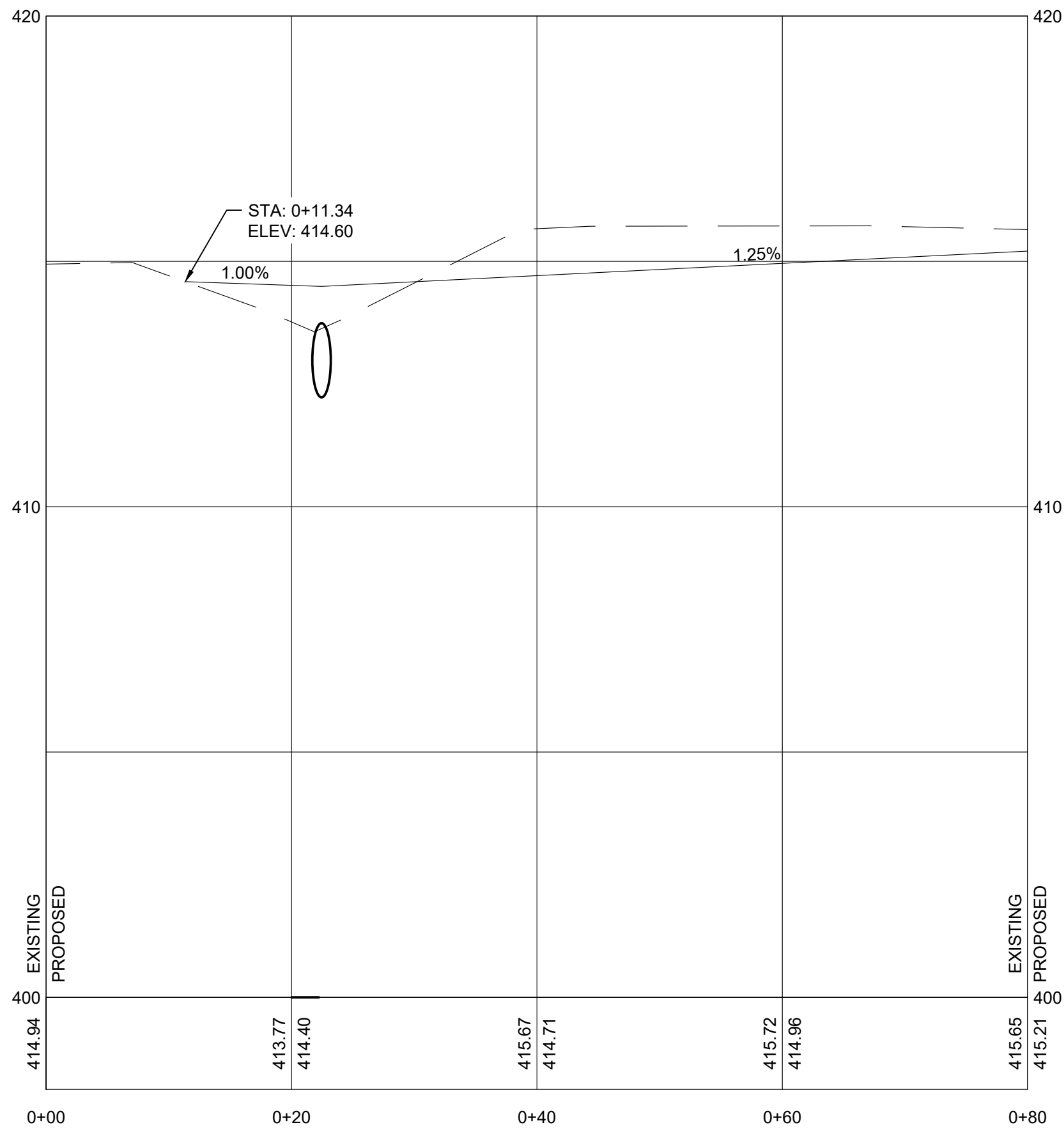
SOUTHWEST DRIVEWAY PLAN  
MILE MARKER ±0.92



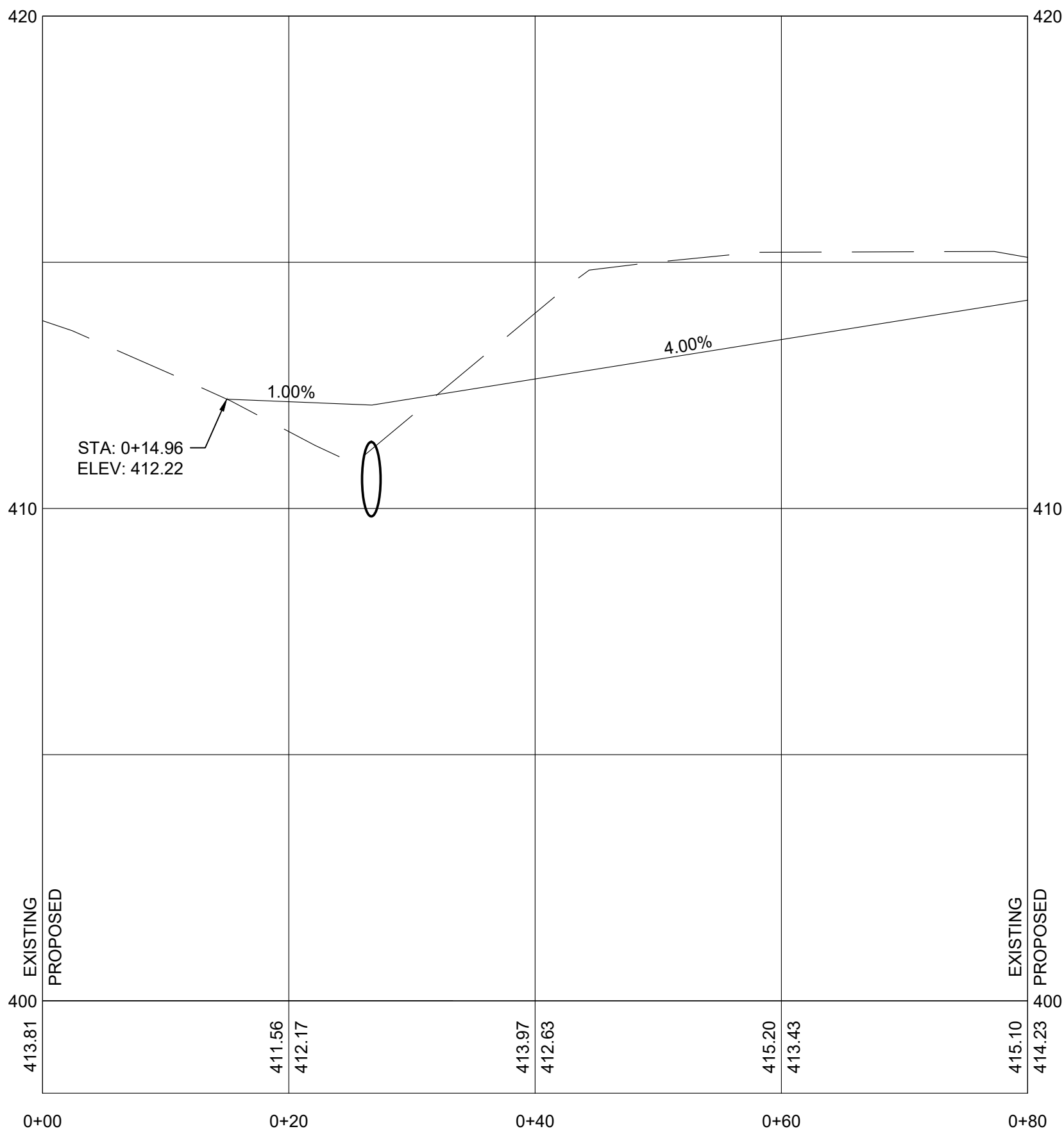
SOUTHEAST DRIVEWAY PLAN  
MILE MARKER ±0.96



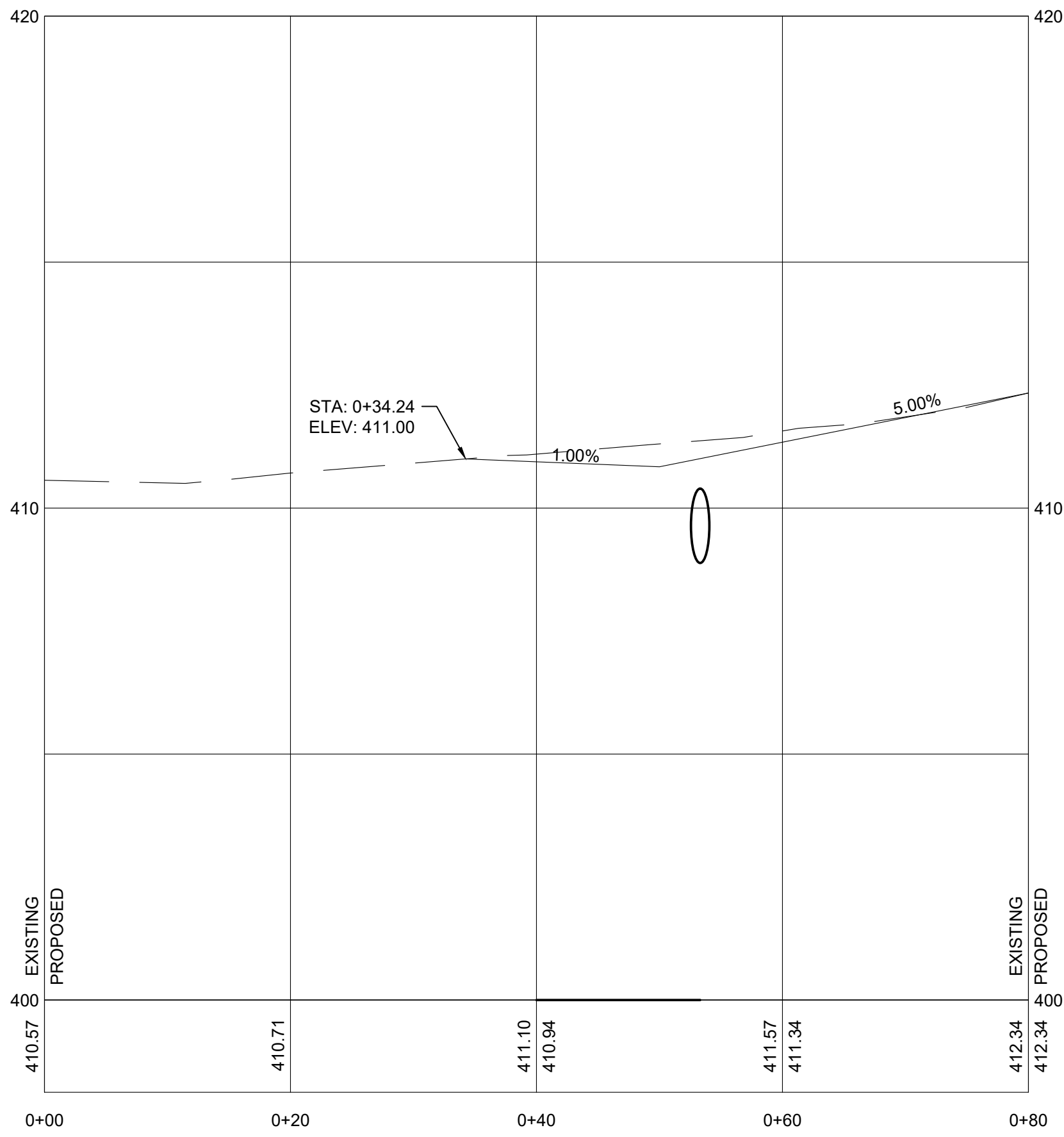
NORTHEAST DRIVEWAY PLAN  
MILE MARKER ±1.0



SOUTHWEST DRIVEWAY PROFILE

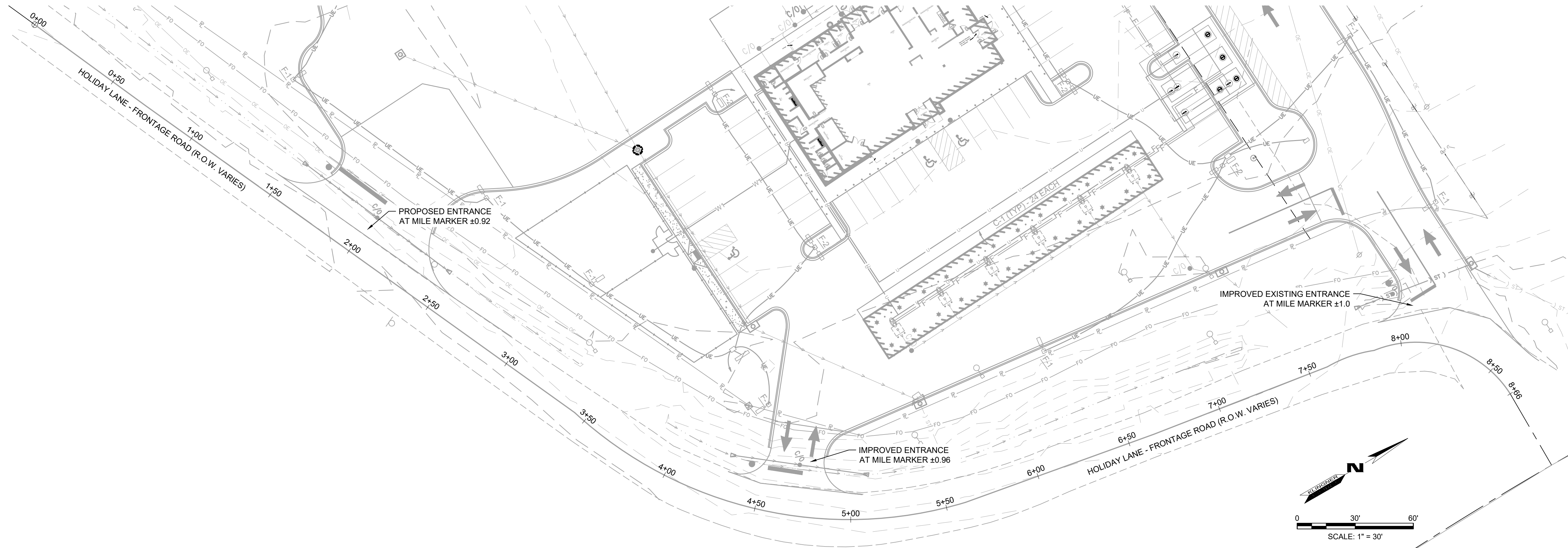


SOUTHEAST DRIVEWAY PROFILE

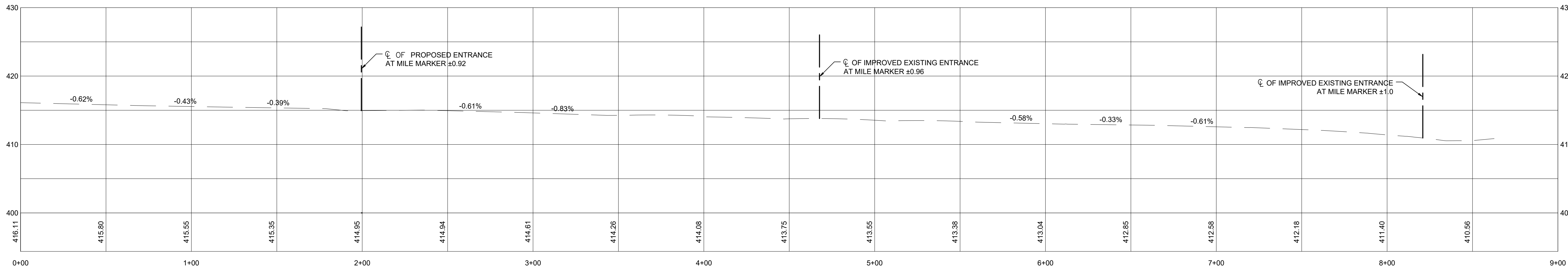


NORTHEAST DRIVEWAY PROFILE





HOLIDAY LANE PLAN



HOLIDAY LANE PROFILE

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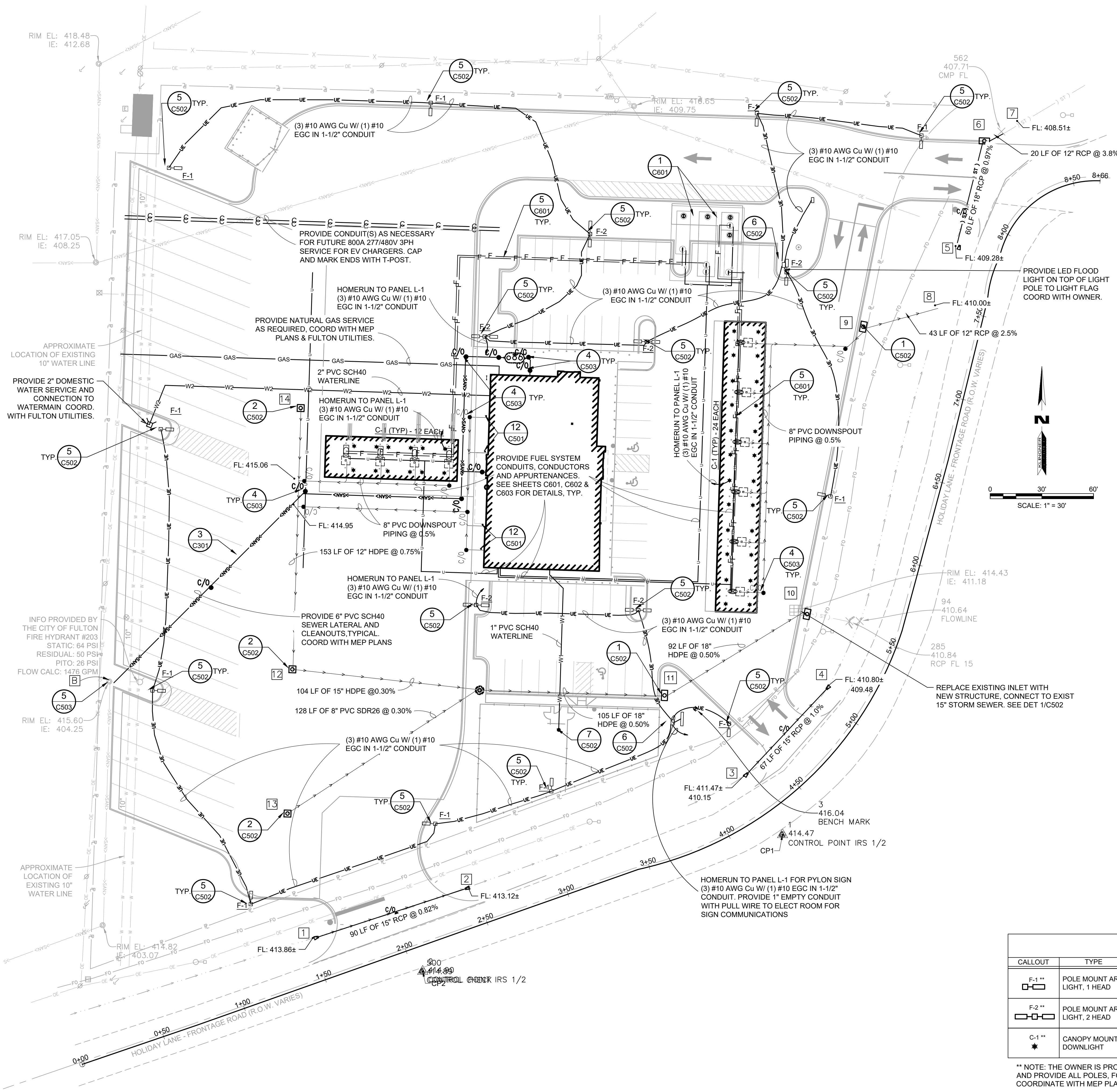
LICENSE EXPIRES 06/30/25

ACEE'S NEIGHBORHOOD MARKET & DELI  
1000 HOLIDAY LANE, FULTON, KY 42041  
GOLIGHTLY & LONG PROPERTIES LLC  
5820 CAIRO ROAD  
PADUCAH, KY 42001

Non-Reduced Sheet Size: 24" x 36"	
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.	
DESIGNED SCH	DRAWN SCH/TCR
FIELD SPS	FIELD BOOK N/A
CHECKED SCH	CHECK DATE 03/16/2025

SHEET TITLE	
HOLIDAY LANE PLAN & PROFILE	
PROJECT NO. 23-7038	
DRAWING ISSUED DATE: 03/17/2025	
SHEET C203	





SITE UTILITY PLAN NOTES

- 1. REFER TO SHEETS C801, C802 AND C803 FOR FUEL ISLAND UTILITY, CONTROL, AND PIPING REQUIREMENTS. PROVIDE PULL BOXES AS NECESSARY FOR CONTROL AND ELECTRIC WIRING, SEE DETAIL 5/C502.
- 2. CONTRACTOR TO PROVIDE 1" EMPTY CONDUIT AND PULL WIRE TO ALL LIGHT POLES FOR FUTURE CAMERAS. CONDUITS SHALL TERMINATE IN ELECTRIC ROOM NEAR NETWORK TERMINAL PANEL.
- 3. ALL CLEANOUTS, INLETS, MANHOLES, AND STRUCTURES LOCATED WITHIN PAVEMENTS SHALL HAVE CONCRETE BLOCK-OUTS OR COLLARS, SEE DETAILS 10/C501 & 6/C503.
- 4. SEE DETAIL 3/C502 FOR ELECTRIC TRENCHING REQUIREMENTS.
- 5. PROVIDE EMPTY CONDUITS AS NOTED FOR FUTURE 800A, 460V 3PH POWER SERVICE FOR ELECTRIC VEHICLE CHARGERS, COORDINATE SIZE AND NUMBER OF CONDUITS WITH UTILITY COMPANY REQUIREMENTS.

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	TOP ELEV.	FLOWLINE ELEV.	DESCRIPTION	GRATE TYPE
1	N/A	413.86±	CONCRETE FLARED END SECTION, 12"	N/A
2	N/A	413.12±	CONCRETE FLARED END SECTION, 12"	N/A
3	N/A	411.47±	CONCRETE FLARED END SECTION, 12"	N/A
4	N/A	410.80±	CONCRETE FLARED END SECTION, 12"	N/A
5	N/A	409.28±	CONCRETE FLARED END SECTION, 12"	N/A
6	411.70	408.70±	STORM SEWER INLET, TYPE 3 (DETAIL 1/C502)	CAST IRON FRAME & GRATE NEENAH R-3455-C OR APPROVED EQUAL
7	N/A	408.51±	CONCRETE FLARED END SECTION, 12"	N/A
8	N/A	410.00±	CONCRETE FLARED END SECTION, 12"	N/A
9	415.58	411.08	STORM SEWER INLET, TYPE 3 (DETAIL 1/C502)	CAST IRON FRAME & GRATE NEENAH R-3455-C OR APPROVED EQUAL
10	415.56	410.85	STORM SEWER INLET, TYPE 3 (DETAIL 1/C502)	MANHOLE FRAME & LID NEENAH R-1713
11	416.26	411.30	STORM SEWER INLET, TYPE 3 (DETAIL 1/C502)	CAST IRON FRAME & GRATE NEENAH R-3455-C OR APPROVED EQUAL
12	414.00	411.95	STORM SEWER INLET, TYPE 4 (DETAIL 2/C502)	CAST IRON FRAME & GRATE NEENAH R-3455-C OR APPROVED EQUAL
13	413.24	412.20	STORM SEWER INLET, TYPE 4 (DETAIL 2/C502)	CAST IRON FRAME & GRATE NEENAH R-3455-C OR APPROVED EQUAL
14	415.37	412.75	STORM SEWER INLET, TYPE 4 (DETAIL 2/C502)	CAST IRON FRAME & GRATE NEENAH R-3455-C OR APPROVED EQUAL
15	416.00	411.65	STORM SEWER MANHOLE (DETAIL 4/C502)	CAST IRON STOOL GRATE, 5" NEENAH R-4342 OR APPROVED EQUAL

SITE LIGHTING FIXTURE SCHEDULE

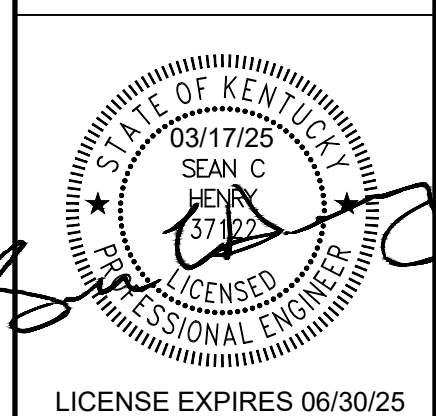
CALLOUT	TYPE	MANUFACTURER	MODEL NUMBER	VOLTS	LAMP(S)	POLE	COMMENTS
F-1 ** □	POLE MOUNT AREA LIGHT, 1 HEAD	LITHONIA LIGHTING	DSX2-LED-P7-40K-T4M-MVOLT-RPA-DBXD - (AS3-5 190)	MVOLT (120-277)	LED - 39,927 LUMEN, 398 WATT	COOPER 38' RTS-9A39SF -2-1XB	SINGLE 2-3/8" DIA/4" LONG TENON MOUNT; 3" HUB AT TOP OF POLE (SEE DETAIL)
F-2 ** □	POLE MOUNT AREA LIGHT, 2 HEAD	LITHONIA LIGHTING	DSX2-LED-P7-40K-T4M-MVOLT-RPA-DBXD - (AS3-5 280)	MVOLT (120-277)	LED - 39,927 LUMEN, 398 WATT (EACH)	COOPER 38' RTS-9A39SF -2-2XB	DUAL 180" 2-3/8" DIA/4" LONG TENON MOUNT; 3" HUB AT TOP OF POLE (SEE DETAIL)
C-1 ** ★	CANOPY MOUNT LED DOWNLIGHT	LSI LIGHTING	SVC-LED-23L-SC-UNIV-DIM-50-WHT	UNIV (120-277)	LED - 23,000 LUMEN, 155 WATT	N/A	UNDER CANOPY MOUNT. PROVIDE ALL NEEDED ITEMS FOR AN OPERABLE SYSTEM.

\*\* NOTE: THE OWNER IS PROVIDING C-1, F-1 AND F-2 FIXTURES FOR INSTALLATION BY THE CONTRACTOR. THE CONTRACTOR SHALL INSTALL FIXTURES AND PROVIDE ALL POLES, FOUNDATIONS, CONDUCTORS, WIRING, AND APPURTENANCES NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. COORDINATE WITH MEP PLANS AND OWNER'S EQUIPMENT PACKAGE.

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SITE UTILITY PLAN

PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:  
03/17/2025  
SHEET  
C301



STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO AID THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER KPDES. THE CONTRACTOR SHALL ABIDE TO ALL REQUIREMENTS WITHIN THIS PLAN AS PART OF THE CONTRACT.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE TIME.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT A COMPLETED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM LOCATED AT 300 SOWER BOULEVARD, THIRD FLOOR, FRANKFORT KY 40601. THE PERSON RESPONSIBLE FOR CONSTRUCTION ACTIVITIES SHALL FILE AN ONLINE NOTICE OF INTENT (NOI) WITH THE KENTUCKY DIVISION OF WATER TO COMPLY WITH PROVISIONS UNDER KPDES STORM WATER GENERAL PERMIT FOR STORM DISCHARGES. THE CONTRACTOR IS ALSO BE RESPONSIBLE FOR MAINTAINING THE BEST MANAGEMENT PRACTICES AND KEEPING RECORDS REGARDING THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND NOTICE OF INTENT (NOI).

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DEEMED NECESSARY ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME; THEREFORE, THE CONTRACTOR SHOULD MINIMIZE THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCE THE AMOUNT OF TEMPORARY EROSION CONTROL SYSTEMS AND TEMPORARY SEEDING. THE CONTRACTOR SHALL FURTHER DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROPOSED PROJECT CONSISTS OF SITE WORK FOR THE CONSTRUCTION OF A TRUCK STOP AND CONVENIENCE STORE.
2. CONSTRUCTION INCLUDES DEMOLITION OF EXISTING PAVEMENT, GRADING OF SITE, STORM AND SANITARY SEWERS, WATER SERVICE LINE, ELECTRIC SERVICE AND SITE LIGHTING, VARIOUS PAVEMENT ITEMS, AND OTHER MISCELLANEOUS ITEMS OF CONSTRUCTION.

DESCRIPTION OF INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. ISOLATED TREE REMOVAL IS SHOWN ON THE PLANS. TREES TO REMAIN WILL BE PROTECTED AGAINST DAMAGE.
2. EXCAVATION AND EMBANKMENT WILL BE COMPLETED AT THE JOB SITE TO ACHIEVE THE PROPOSED SITE CONTOURS.
3. STORM SEWERS, MANHOLES, INLETS, AND OTHER UTILITY INSTALLATIONS.
4. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS PERIMETER EROSION CONTROL BARRIER, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION, TEMPORARY SEEDING, ETC.
5. PAVEMENT AND SIDEWALK WORK.
6. FINAL GRADING, LANDSCAPING AND OTHER MISCELLANEOUS ITEMS.
7. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS RIPRAP DITCH, AND EROSION CONTROL BLANKET, SEEDING, ETC.

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 4.24 ACRES OF WHICH 3.89 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THIS STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. PROJECT PLAN DOCUMENTS, SPECIFICATIONS, AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

1. STORM WATER OUTLETS TO THE EXISTING CITY ROADWAY DITCHES SOUTH AND EAST OF THE SITE , WHICH OUTLETS TO LITTLE BAYOU DE CHIEN WHICH OUTLETS TO BAYOU DE CHIEN.

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

1. THE EXISTING VEGETATION SHALL BE PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES. STABILIZATION MEASURES SHALL BE INITIATED IMMEDIATELY IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
  - (A) AREAS OF EXISTING VEGETATION (WOODS AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
  - (B) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED ALONG WITH REQUIRED TREE REMOVAL.
  - (C) AS SOON AS REASONABLE ACCESS IS AVAILABLE (SUCH AS TREES CLEARED) TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, SEDIMENT BASINS, RIPRAP DITCH CHECKS, TEMPORARY DITCH CHECKS, AND/OR EROSION CONTROL FENCE SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN.
  - (D) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODABLE AREAS SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.
  - (E) IMMEDIATELY AFTER TREE REMOVAL OR STRIPPING IS COMPLETED, AREAS WHICH ARE HIGHLY ERODABLE SHALL BE TEMPORARILY SEEDED WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.
  - (F) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), EROSION CONTROL FENCE, TEMPORARY DITCH CHECKS, OR RIPRAP DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE SITE.
  - (G) WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (e.g. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.
2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVERSEEDING CAN BE COMPLETED.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING OR PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
  - (A) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
  - (B) TOP SOIL AND EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
  - (C) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING:
    - I. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
    - II. TEMPORARILY SEED ERODABLE BARE EARTH AREAS ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
    - III. CONSTRUCT DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS
    - IV. TEMPORARILY DIVERT WATER AROUND PROPOSED CULVERT LOCATIONS
    - V. BUILD NECESSARY EMBANKMENT AT CULVERT LOCATIONS AND THEN EXCAVATE AND PLACE CULVERT
    - VI. CONTINUE BUILDING UP THE EMBANKMENT TO THE PROPOSED GRADE WHILE AT THE SAME TIME PLACE PERMANENT EROSION CONTROL SUCH AS RIPRAP DITCH LINING AND CONDUCT FINAL SHAPING TO THE SLOPES.
  - (D) EXCAVATED AREAS AND EMBANKMENTS SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADED. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.
  - (F) ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUN-OFF IN COMPLIANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
  - (G) THE CONTRACTOR SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL DURING THE WINTER SHUTDOWN PERIOD.
  - (H) SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE BASE BID.
  - (I) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AFTER USE IS NO LONGER NEEDED NO LONGER FUNCTIONING. THE COSTS OF THIS REMOVAL SHALL BE INCLUDED IN THE BASE BID PRICE.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

1. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH A PROPER STAND.
2. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED.

MAINTENANCE AFTER CONSTRUCTION:

1. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY THE OWNER.
2. MAINTENANCE UP TO THE ACCEPTANCE DATE WILL BE BY THE CONTRACTOR.

MISCELLANEOUS:

1. TEMPORARY DITCH CHECKS SHALL BE LOCATED AT EVERY 1.5 FT. RISE/FALL IN DITCH GRADE.
2. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS/ACRE.
3. STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER AND SILT FENCES WILL NOT BE PERMITTED FOR PERMANENT DITCH CHECKS. PERMANENT DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE, SILT PANELS, ROLLED EXCELSIOR, URETHANE FOAM/GEOTEXTILE (SILT WEDGES), AND/OR ANY OTHER MATERIAL.

DOCUMENTATION

1. QUALIFIED PERSONNEL (P.E., CPESC, CESSWI, OR OTHER KNOWLEDGEABLE PERSONNEL) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL.
2. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE YEARS AFTER THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G OF THE GENERAL PERMIT.
3. IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE CONTRACTOR SHALL COMPLETE AND FILE AN 'INCIDENT OF NONCOMPLIANCE (ION)' REPORT FOR THE IDENTIFIED VIOLATION.

NOTES

1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

CONTRACTOR CERTIFICATION STATEMENT

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS OF THE KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES) AND THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

CONTRACTOR/SUBCONTR:  
PRINT OR TYPE

SIGNATURE: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_

STREET ADDRESS: \_\_\_\_\_

CITY: STATE: ZIP: \_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

FAX NUMBER: \_\_\_\_\_

DATE: \_\_\_\_\_

PERMITTEE (OWNER) CERTIFICATION:

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OWNER (PERMITTEE):  
PRINT OR TYPE

SIGNATURE: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_

STREET ADDRESS: \_\_\_\_\_

CITY, STATE, ZIP: \_\_\_\_\_

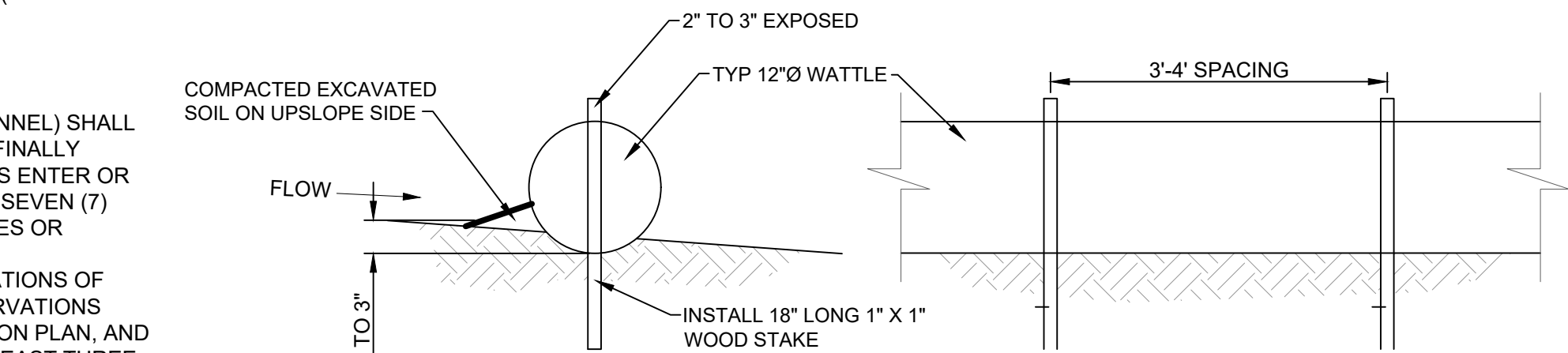
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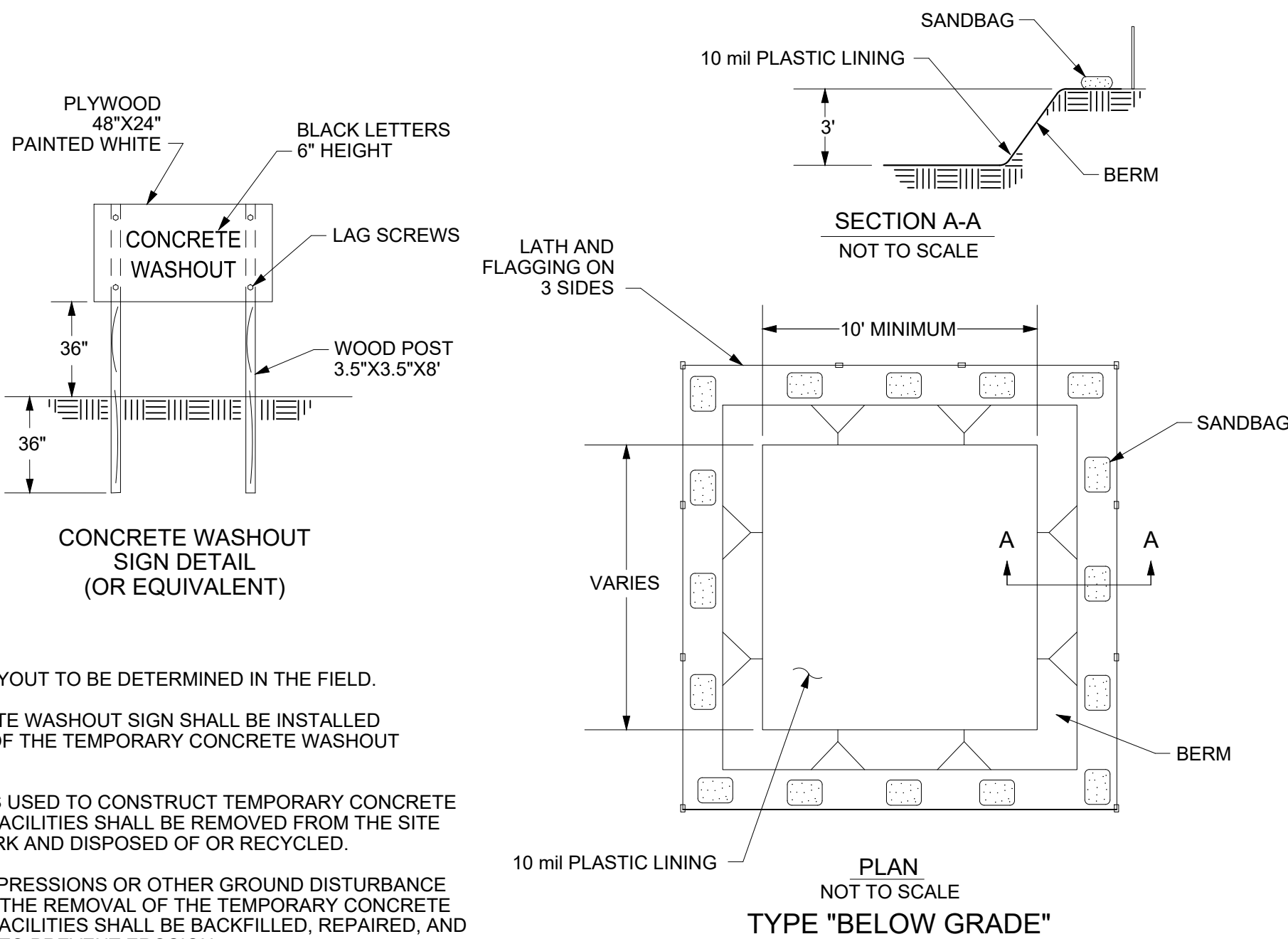
DATE: \_\_\_\_\_

THE NOTICE OF INTENT (NOI), INCIDENCE OF NON-COMPLIANCE (ION), AND THE NOTICE OF TERMINATION (NOT) SHALL BE COMPLETED ON THE FOLLOWING WEB PAGE:

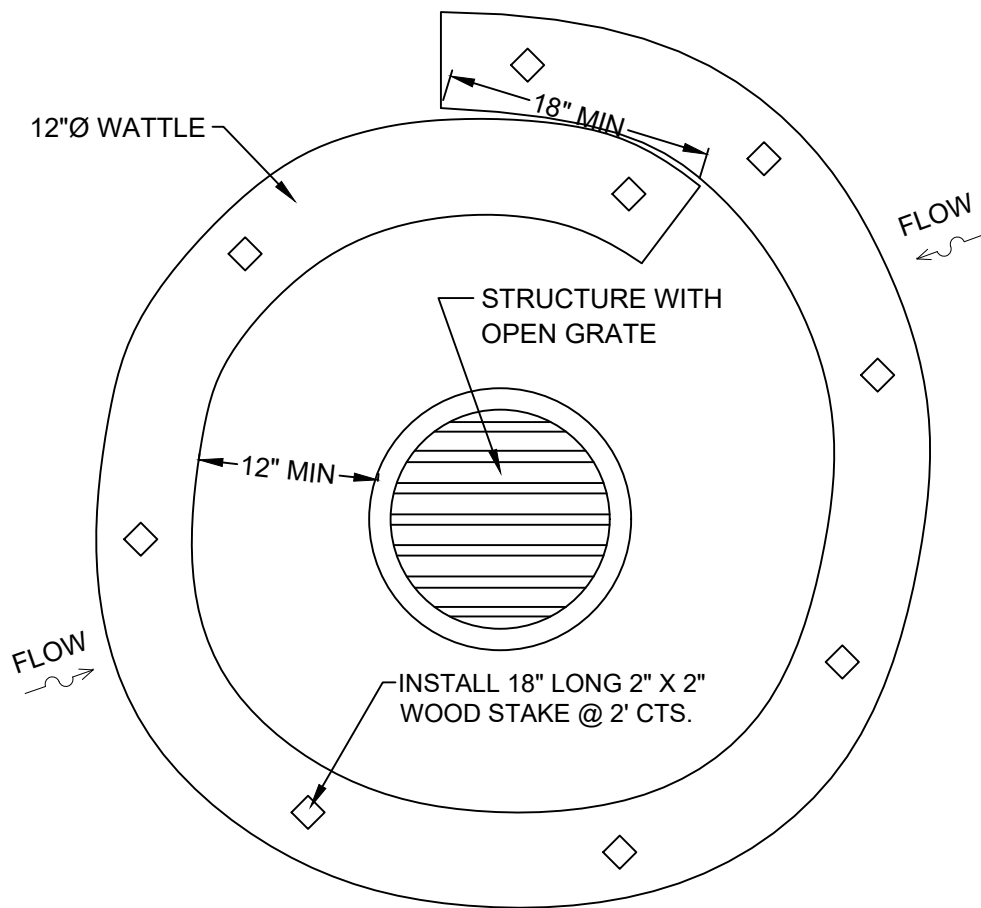
KENTUCKY DEPARTMENT OF ENVIRONMENTAL PROTECTION - DIVISION OF WATER WEB SITE



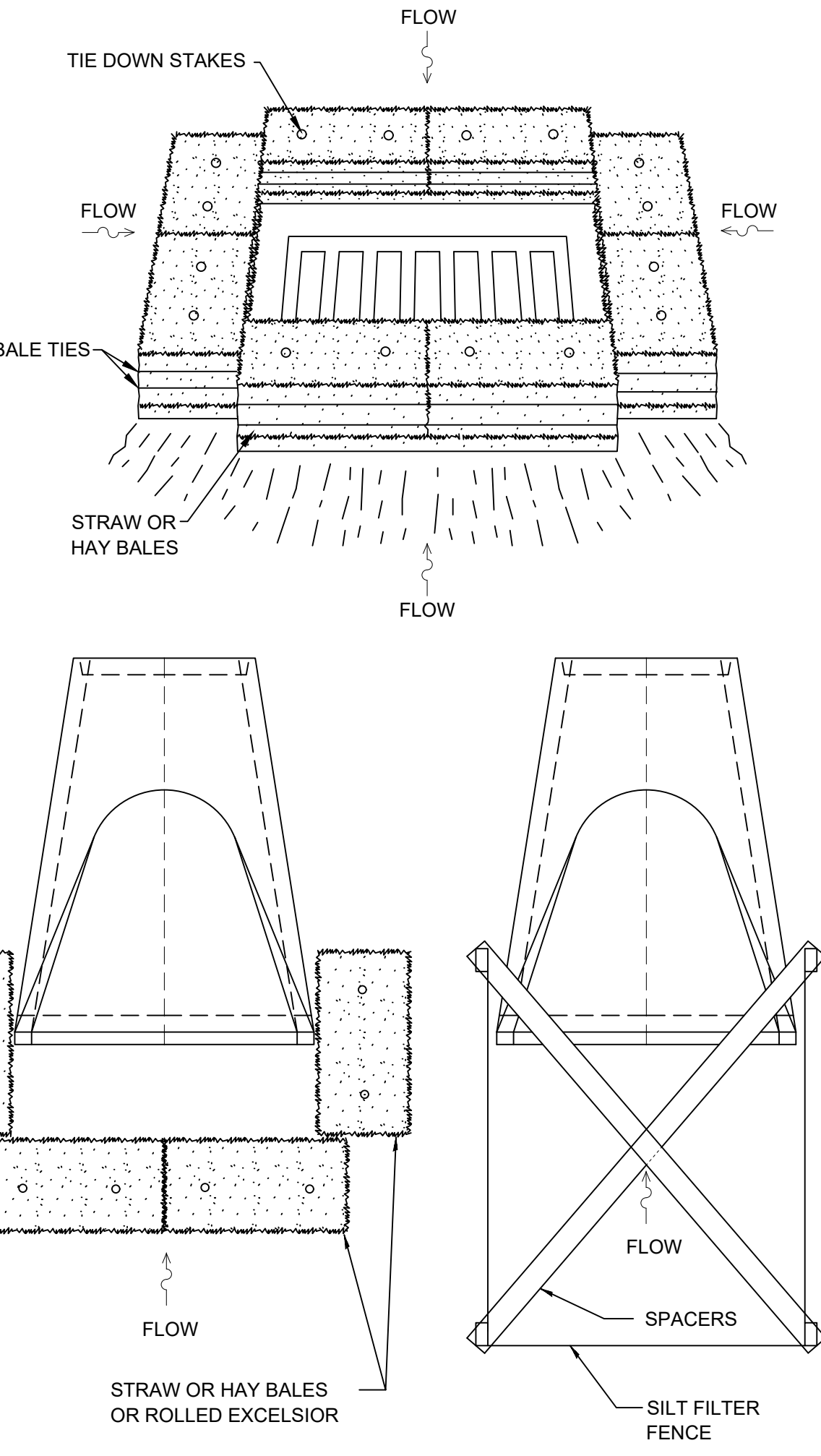
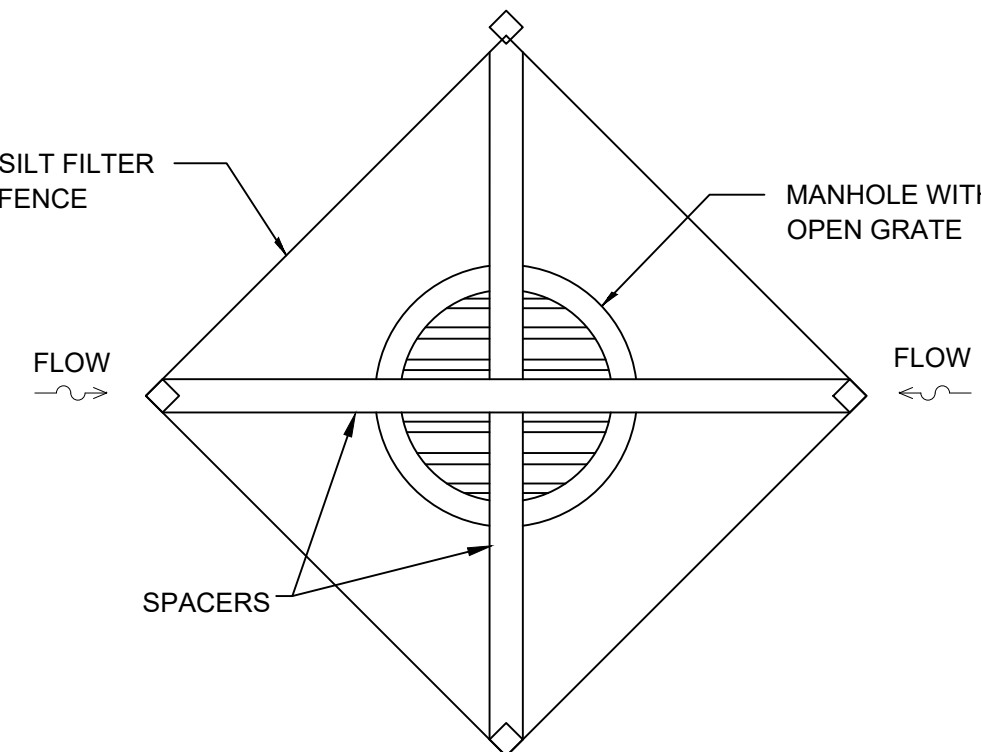
1 EROSION CONTROL WATTLE CHECK  
N.T.S.



2 CONCRETE WASH OUT DETAIL  
N.T.S.



3 INLET PROTECTION DETAILS  
N.T.S.



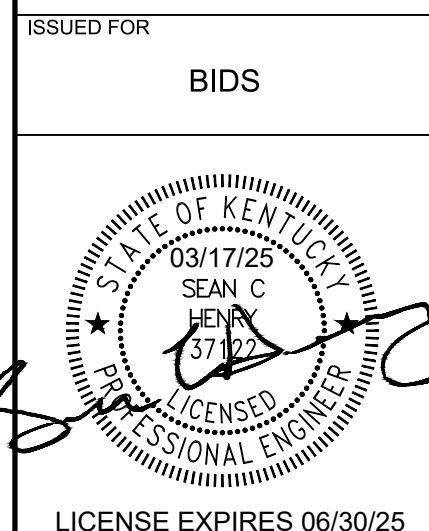
4 INLET AND PIPE PROTECTION DETAILS  
N.T.S.

**KLINGNER & ASSOCIATES, P.C.**  
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www.klingner.com  
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Burlington, IA Galveston, TX Pellet, IA  
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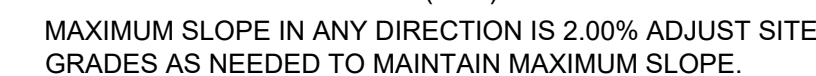
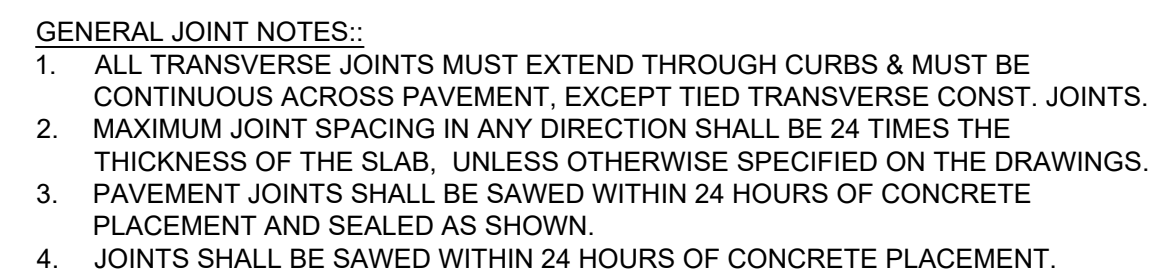
Non-Reduced Sheet Size: 24" x 36"	
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.	
DESIGNED	DRAWN
SCH	SCH/TCR
FIELD	FIELD BOOK
SPS	N/A
CHECKED	CHECK DATE
SCH	03/16/2025

SHEET TITLE	
STORM WATER POLLUTION PREVENTION PLAN	
PROJECT NO. 23-7038	
DRAWING ISSUED DATE: 03/17/2025	
SHEET	
C401	

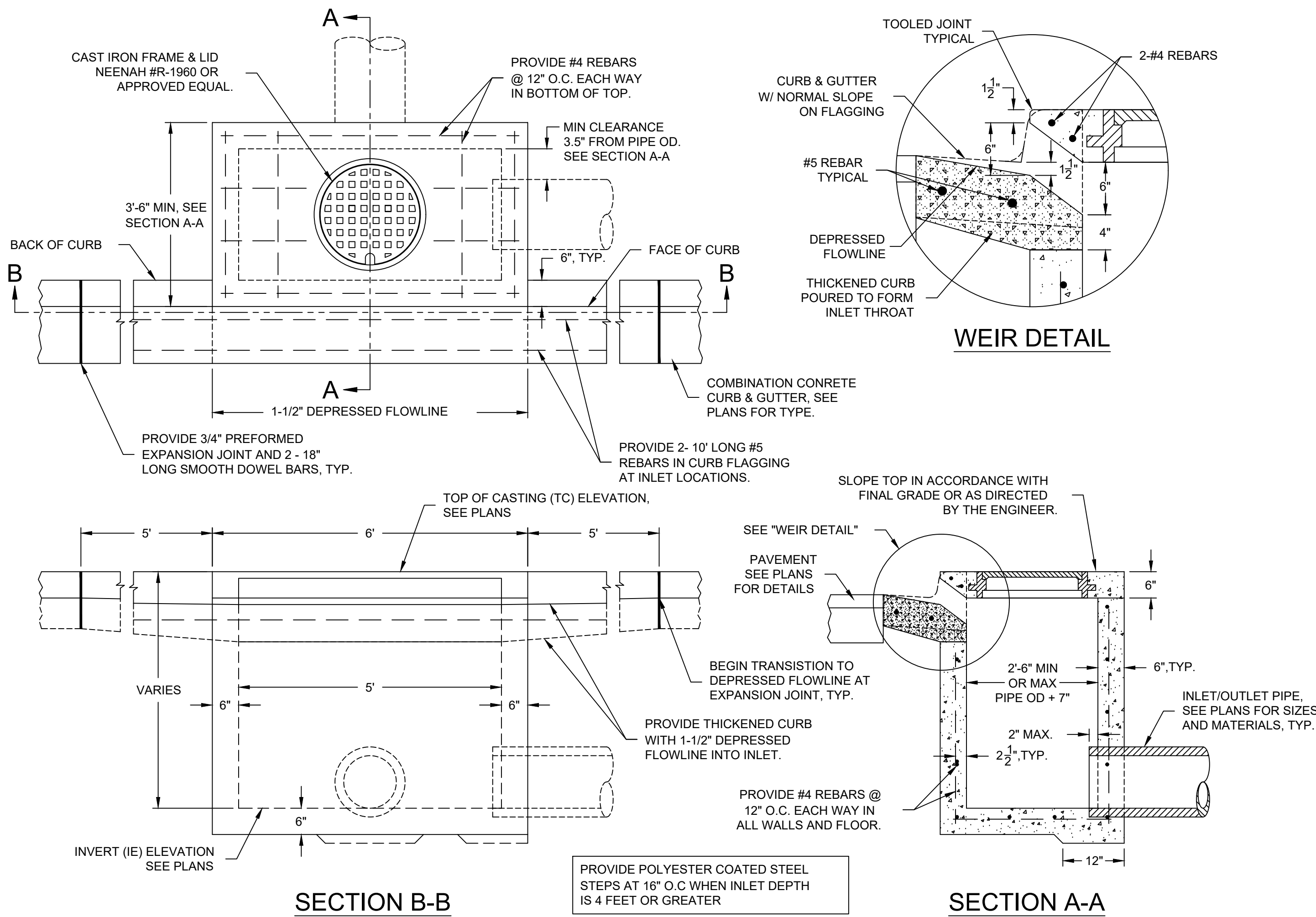




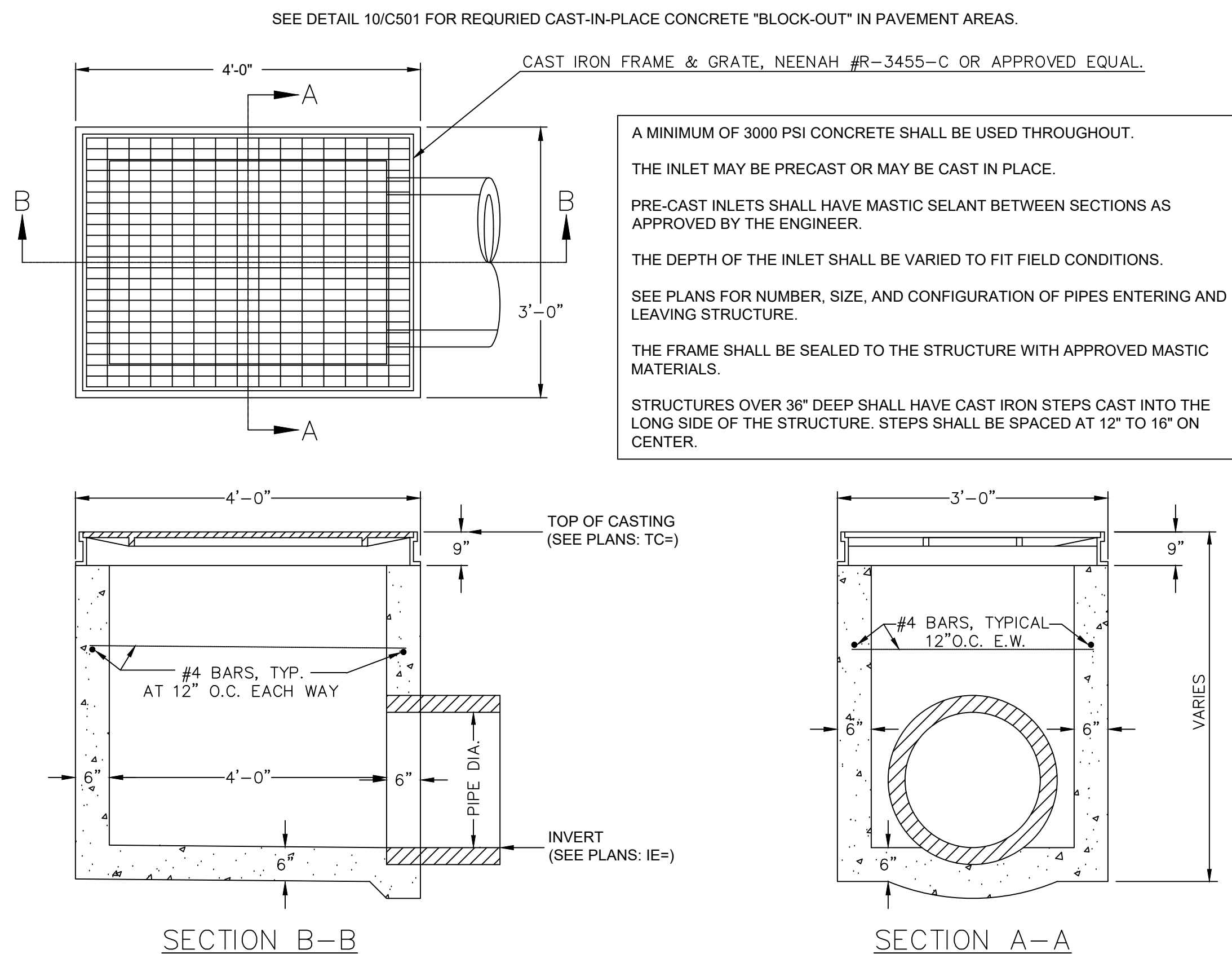
- \* MAXIMUM CURB FLAG SLOPE SHALL BE 1/2" PER FOOT AT ACCESSIBLE RAMPS. SLOPE OF CURB FLAG TO BE AWAY FROM FACE OF CURB ("DRY-CURB") IF PAVEMENT SLOPE IS AWAY FROM CURB LINE. COORDINATE WITH GRADING PLAN AND ENGINEER / ARCHITECT.



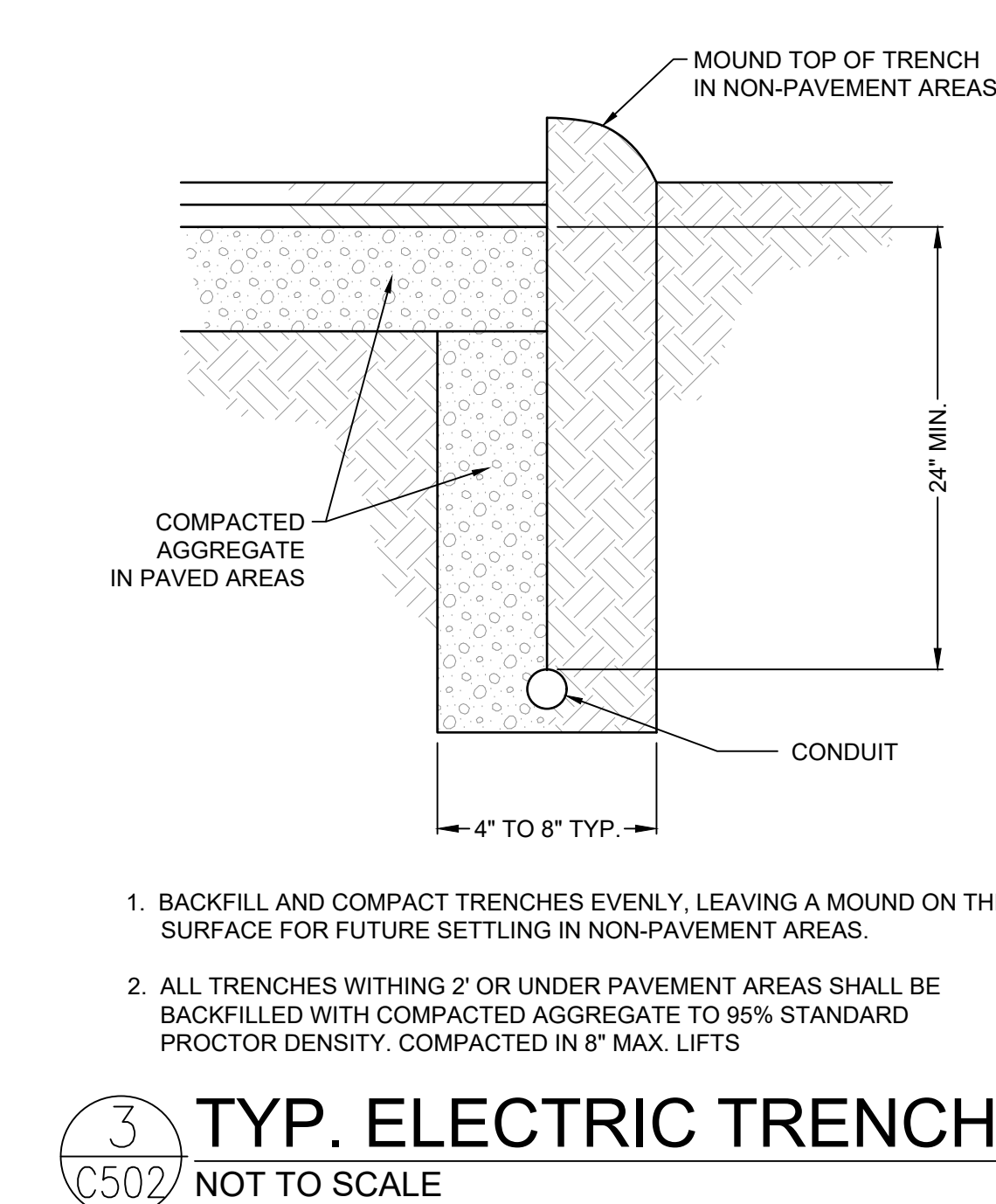




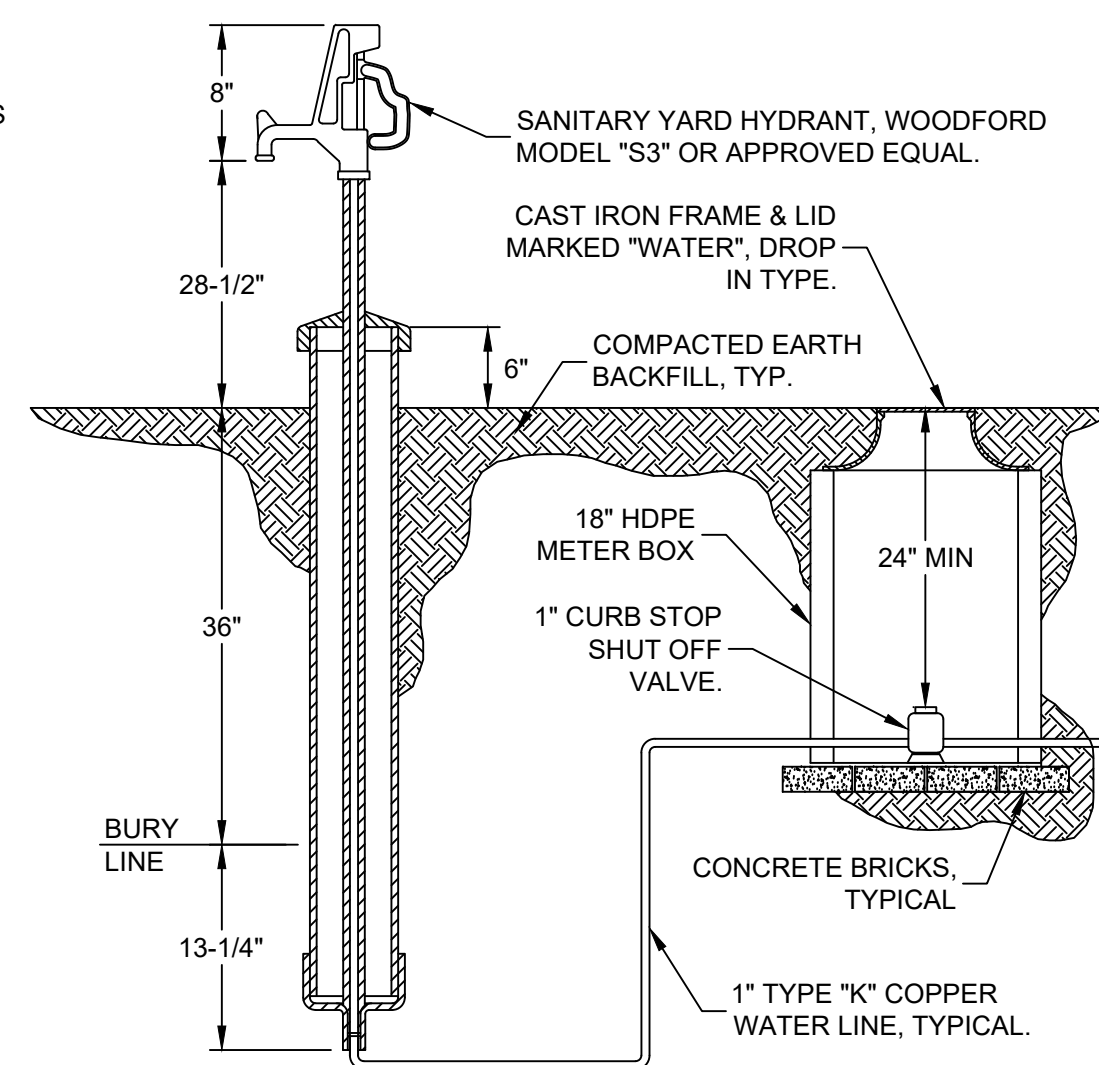
**1**  
C502  
TYPICAL STORM SEWER INLET TYPE 3 DETAIL  
NOT TO SCALE



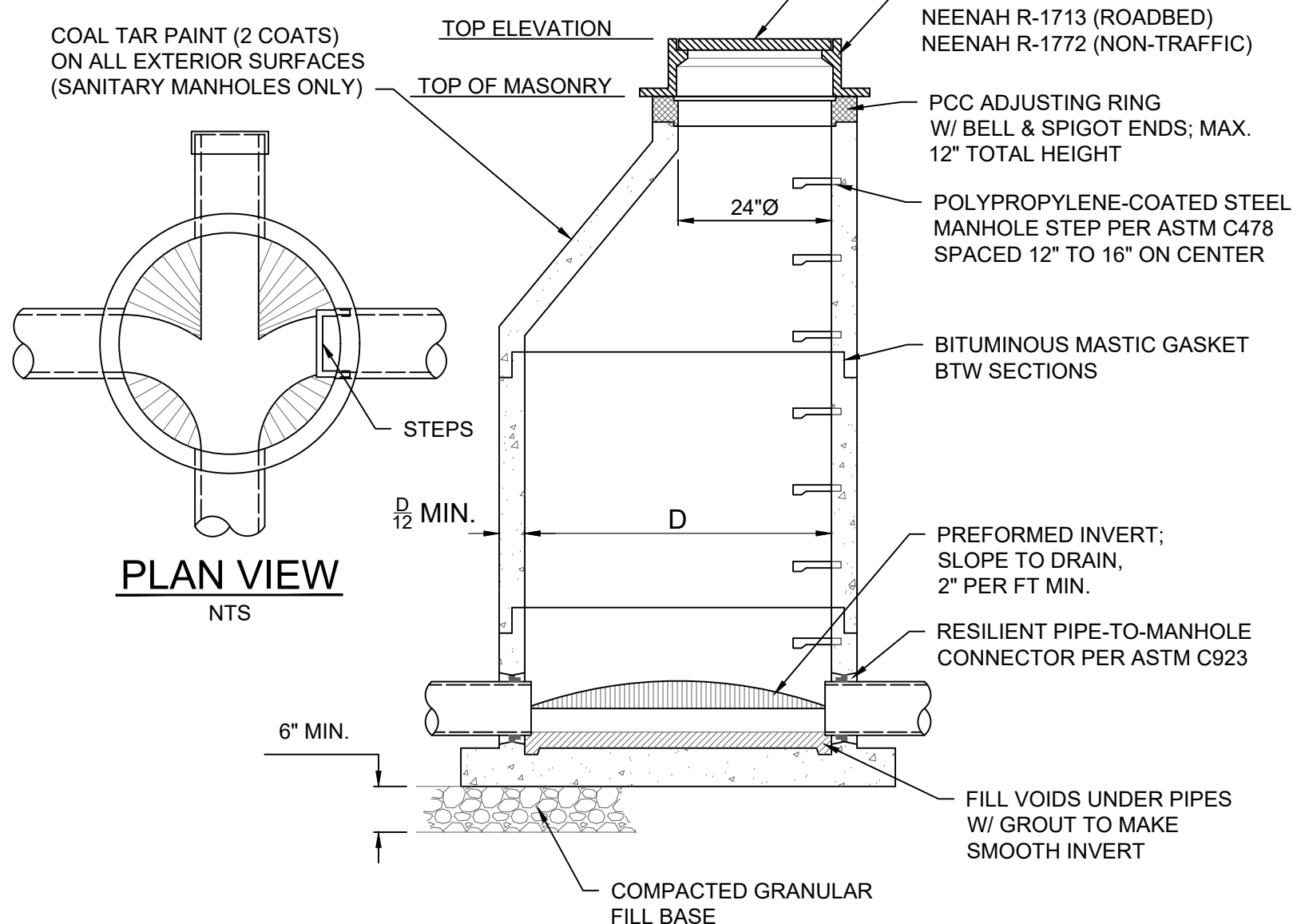
**2**  
C502  
STORM SEWER INLET TYPE 4 DETAIL.  
NOT TO SCALE



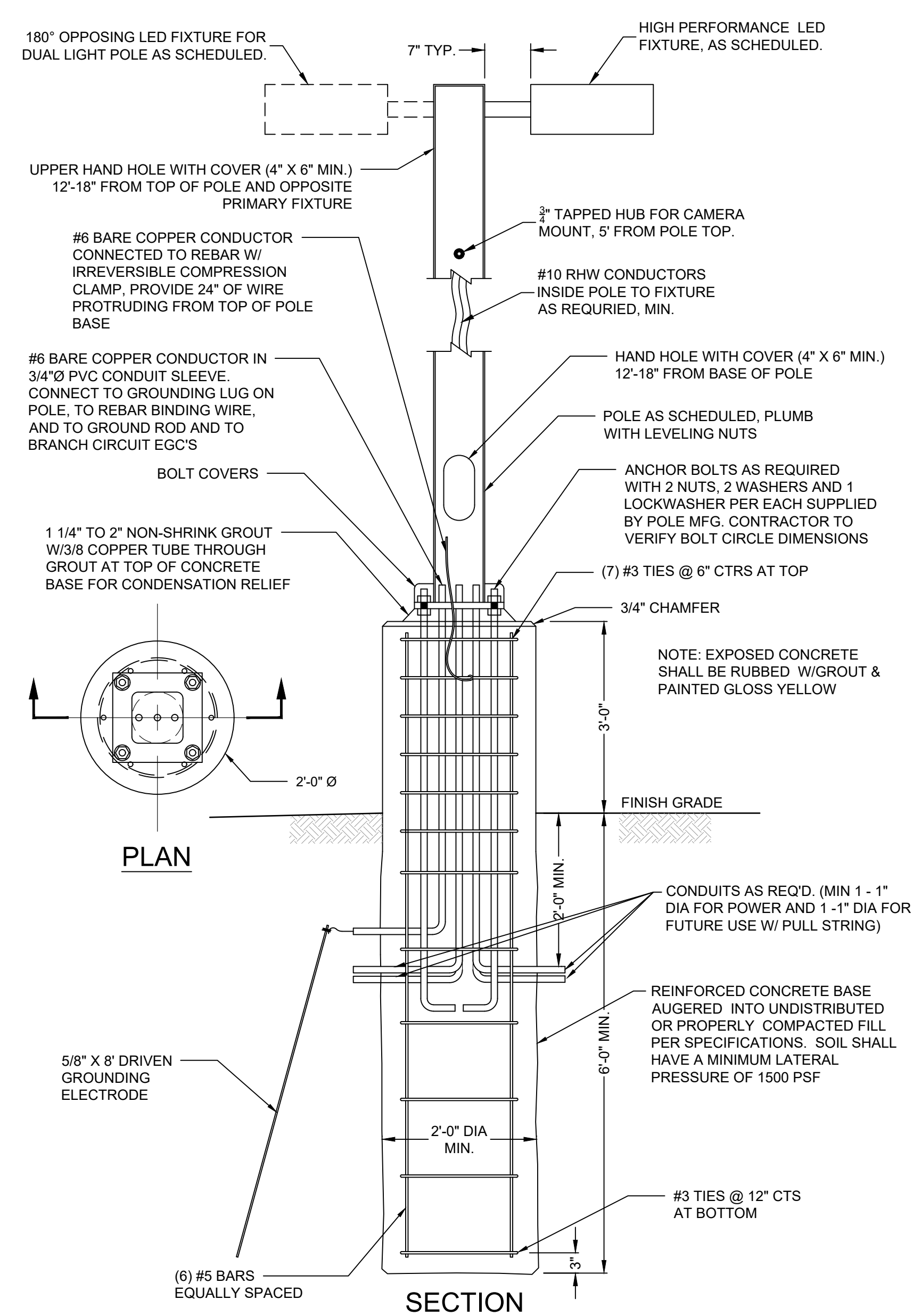
**3**  
C502  
TYP. ELECTRIC TRENCH  
NOT TO SCALE



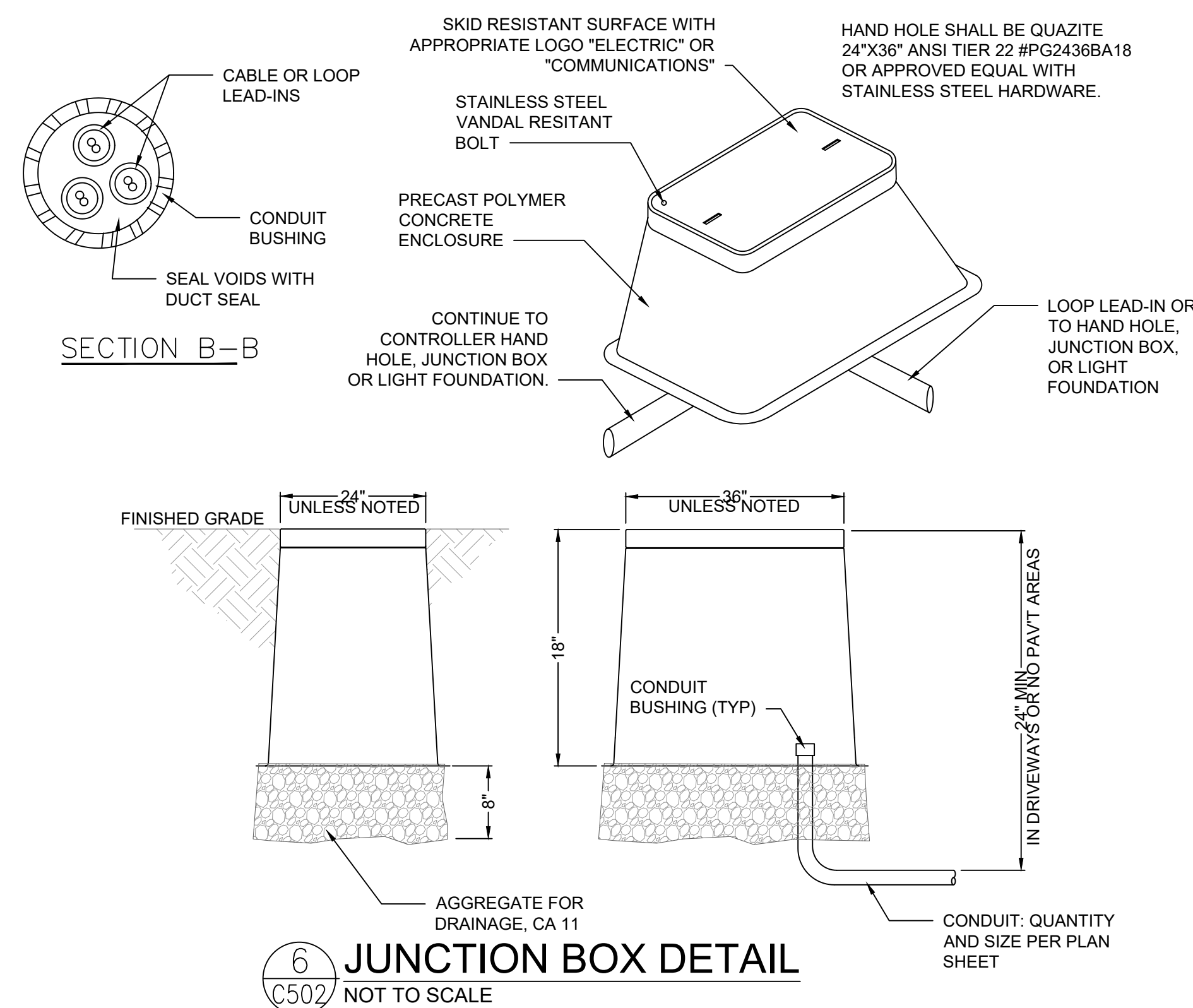
**7**  
C502  
SANITARY YARD HYDRANT  
NOT TO SCALE



**4**  
C502  
TYP. PRE-CAST CONCRETE MANHOLE DETAIL  
NOT TO SCALE

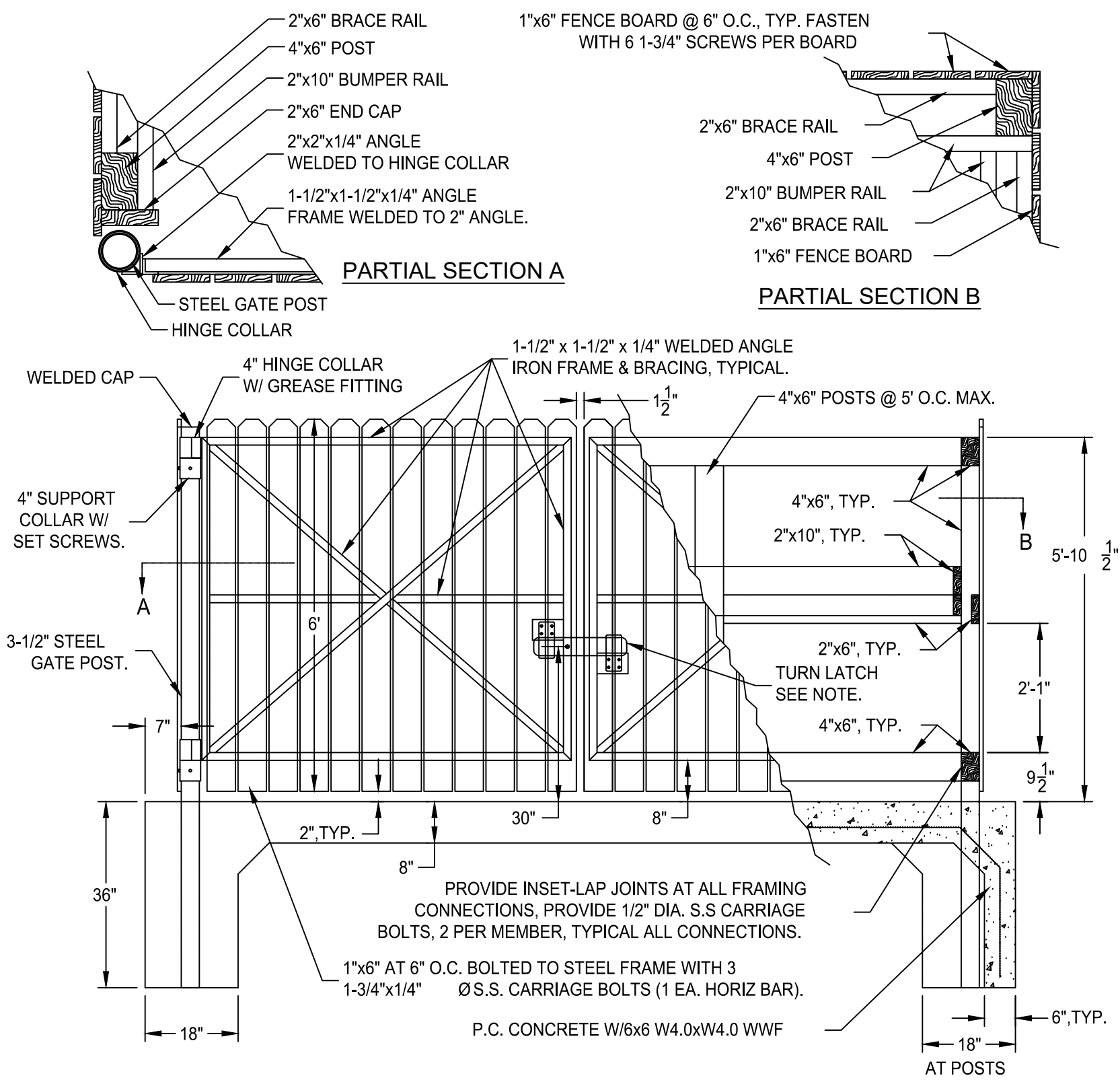


**5**  
C502  
TYPICAL LIGHT FIXTURE DETAIL  
NOT TO SCALE



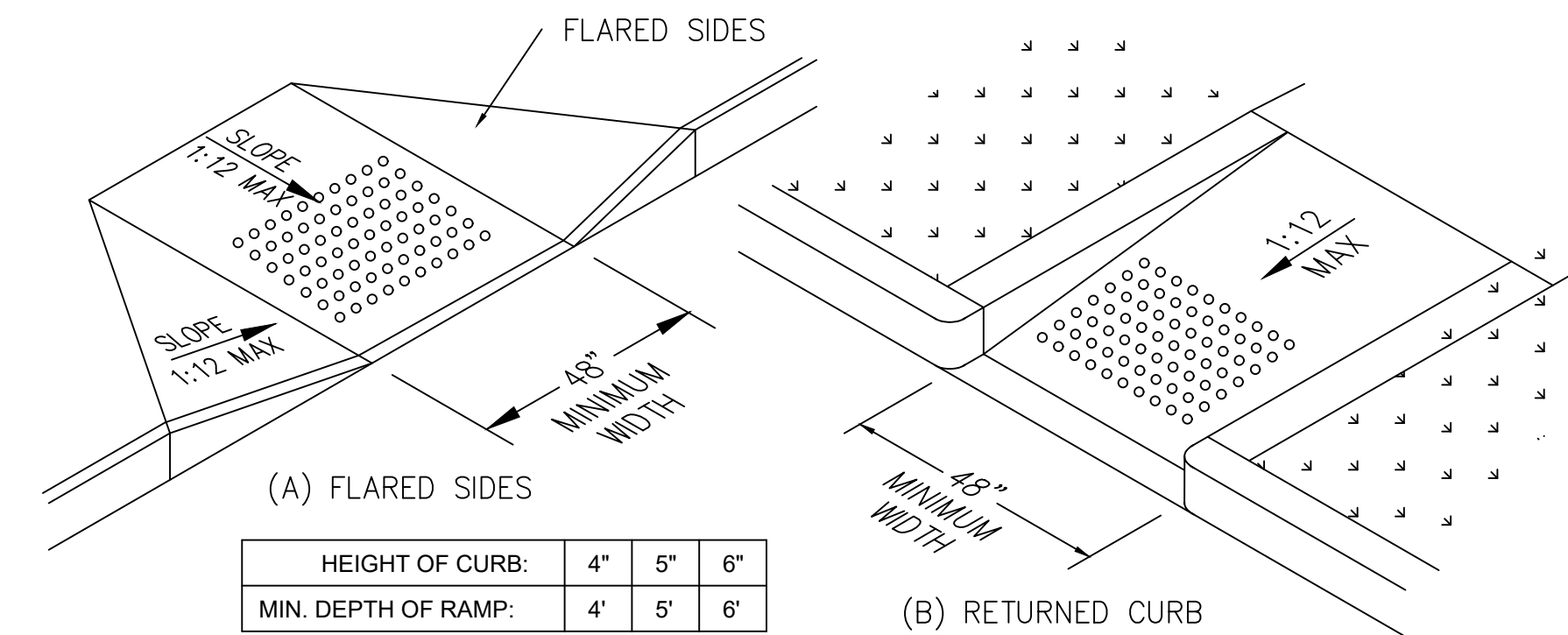
**6**  
C502  
JUNCTION BOX DETAIL  
NOT TO SCALE





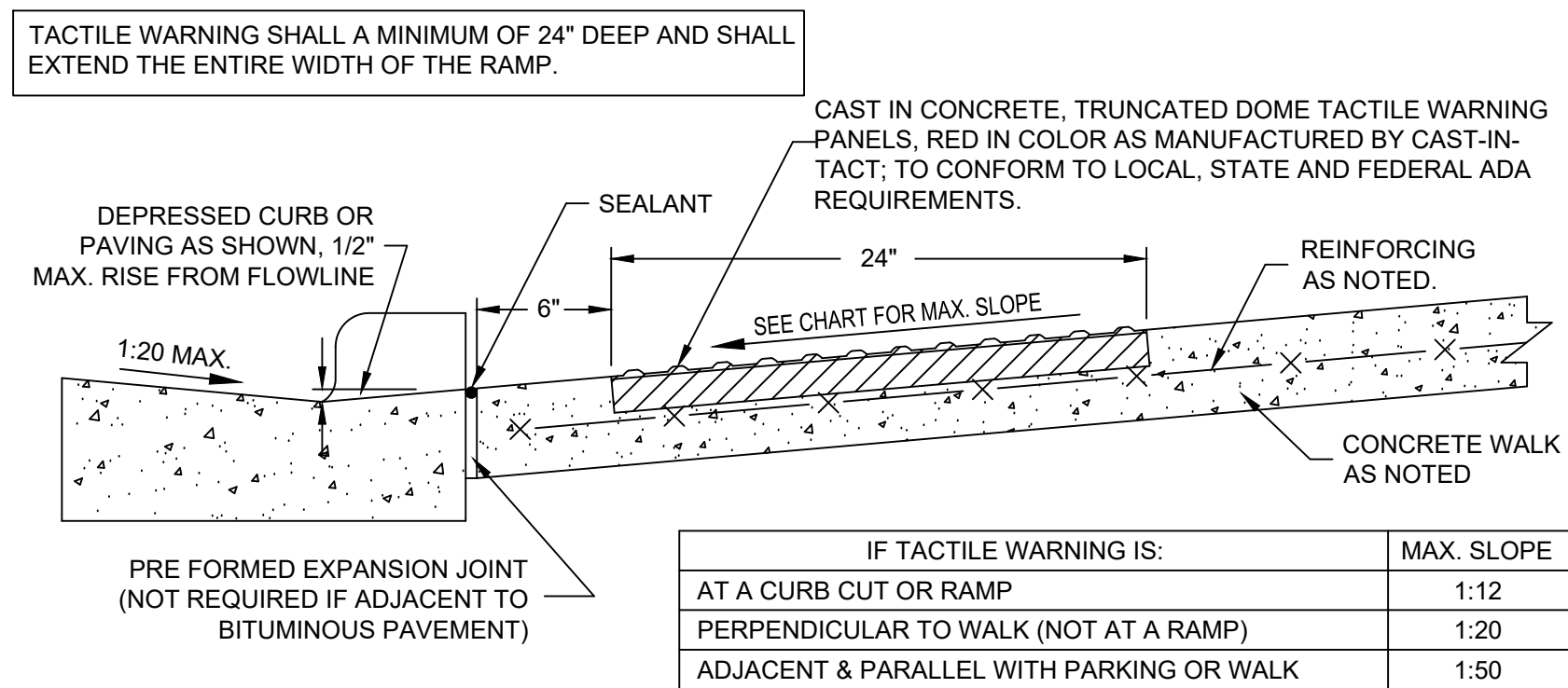
### 1 TRASH DUMPSTER ENCLOSURE DETAIL

C503 NOT TO SCALE



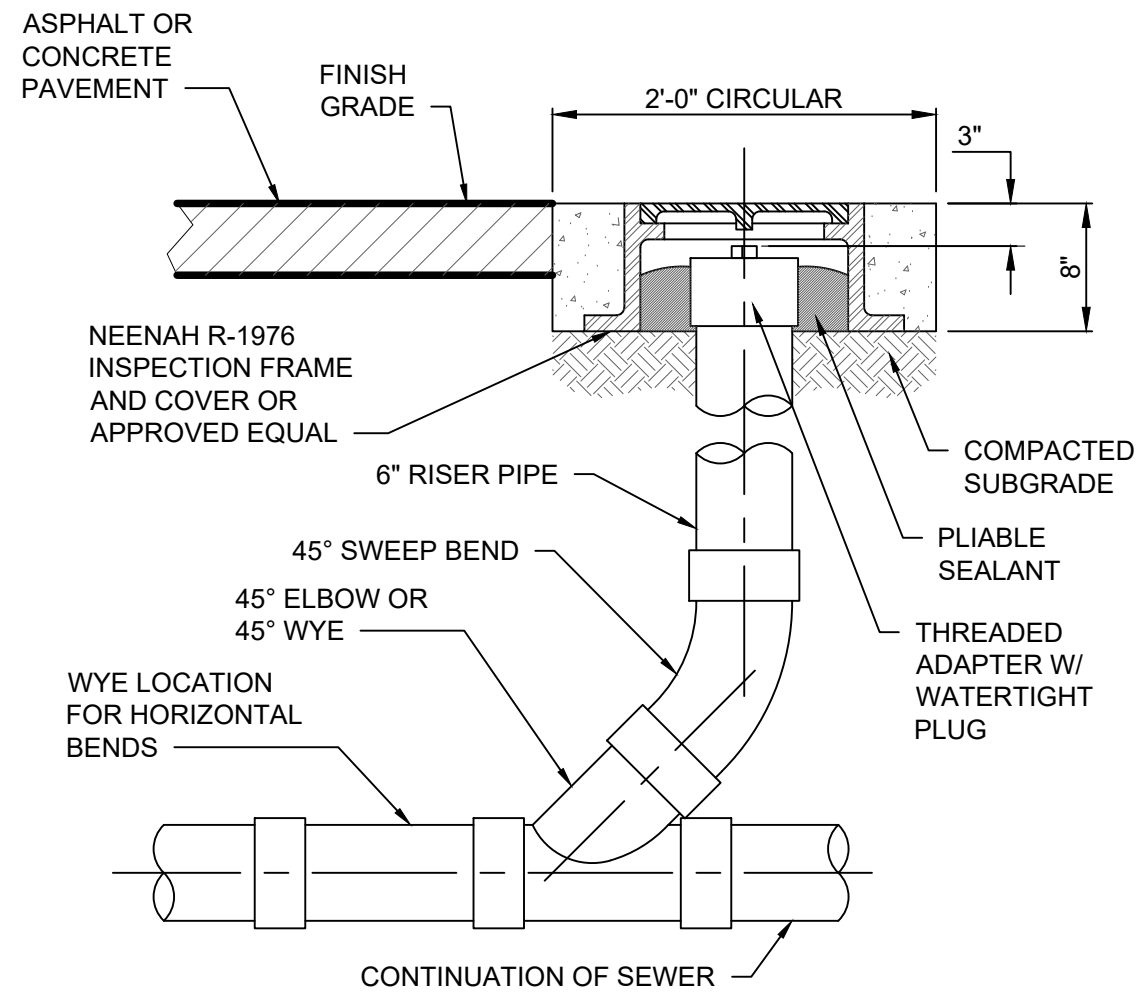
### 2 TYPICAL CURB RAMP DETAILS

C503 NOT TO SCALE



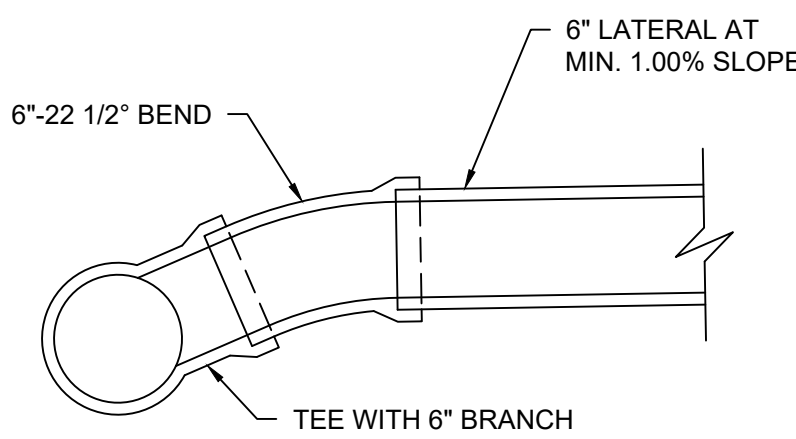
### 3 TYPICAL TACTILE WARNING DETAIL

C503 NOT TO SCALE



### 4 TYPICAL CLEANOUT DETAILS

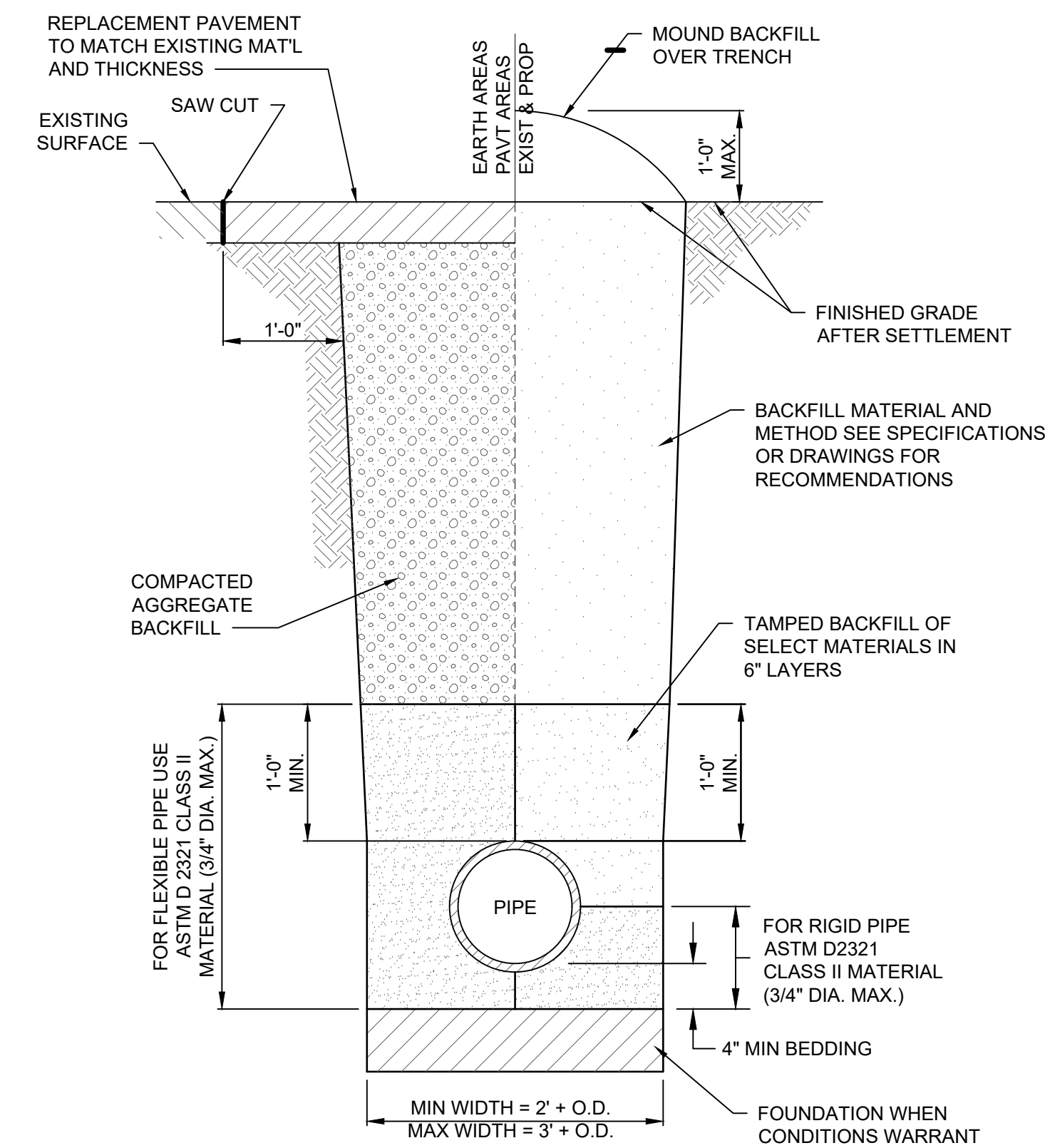
C503 NOT TO SCALE



ALL HOUSE LATERAL CONNECTIONS SHALL BE CONSTRUCTED PER THIS DETAIL UNLESS OTHERWISE SHOWN ON PLANS OR WITH WRITTEN APPROVAL OF THE ENGINEER.

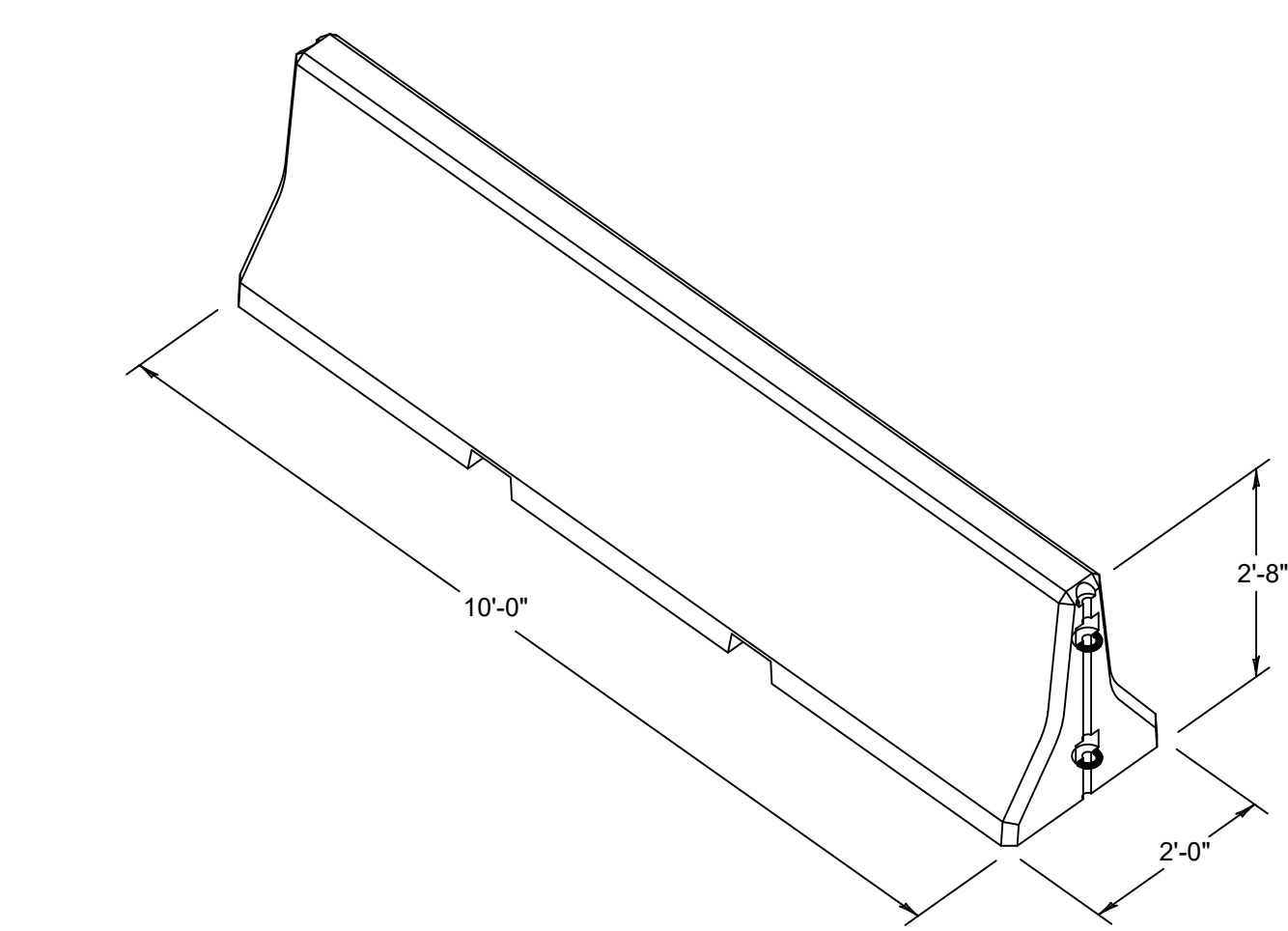
### 5 TYP SANITARY SEWER LATERAL CONNECTION

C503 NOT TO SCALE

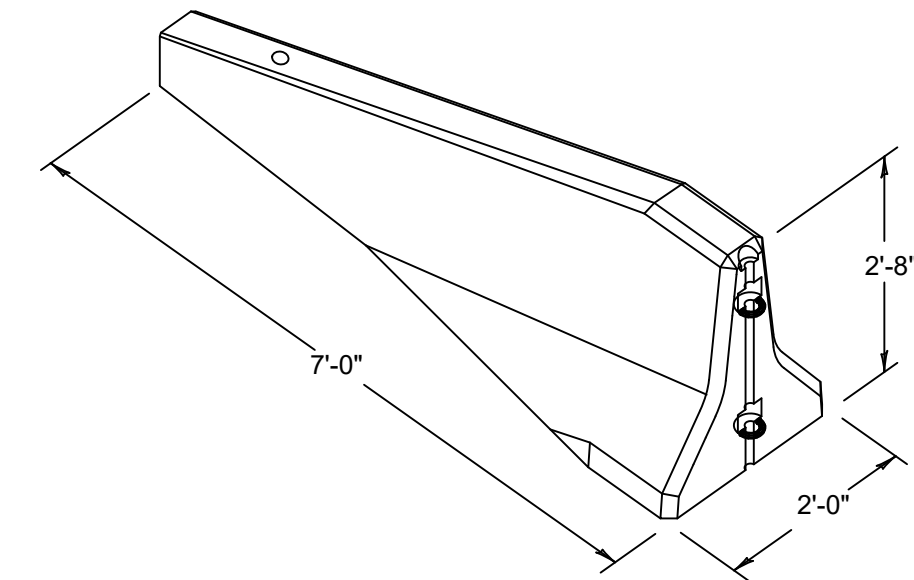


### 6 TYPICAL SEWER TRENCH DETAIL

C503 NOT TO SCALE



Oldcastle Precast	Median Barrier	10' Barrier (3,950 lbs)
2240 S. Yellowstone Hwy, Idaho Falls, Idaho 83402 Phone: 208-522-6150 Fax: 208-522-9701	FILE NAME: 230TBM01 ISSUE DATE: 1/2011 www.oldcastleprecast.com	2'-0" x 2'-8" x 10'-0" Copyright © 2011



Oldcastle Precast	Median Barrier	7' Terminal End Barrier (2,920 LBS)
2240 S. Yellowstone Hwy, Idaho Falls, Idaho 83402 Phone: 208-522-6150 Fax: 208-522-9701	FILE NAME: 230TBM02 ISSUE DATE: 1/2011 www.oldcastleprecast.com	2'-0" x 2'-8" x 7'-0" Copyright © 2011

### 7 TYPICAL DIESEL ISLAND PUMP BARRIER

C503 NOT TO SCALE

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REVISION HISTORY			
MARK	DESCRIPTION	DATE	APPR

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BIDS
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STATE OF KENTUCKY
SEAN C. HENRY
REGISTERED PROFESSIONAL ENGINEER

LICENSE EXPIRES 06/30/25
--------------------------

ACEE'S NEIGHBORHOOD MARKET & DELI
-----------------------------------

1000 HOLIDAY LANE, FULTON, KY 42041
-------------------------------------

GOLIGHTLY & LONG PROPERTIES LLC
---------------------------------

5820 CAIRO ROAD
-----------------

PADUCAH, KY 42001
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Non-Reduced Sheet Size: 24" x 36"
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Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.
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DESIGNED	DRAWN
SCH	SCH/TCR

FIELD	FIELD BOOK
SPS	N/A

CHECKED	CHECK DATE
SCH	03/16/2025

SHEET TITLE
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SITE DETAILS
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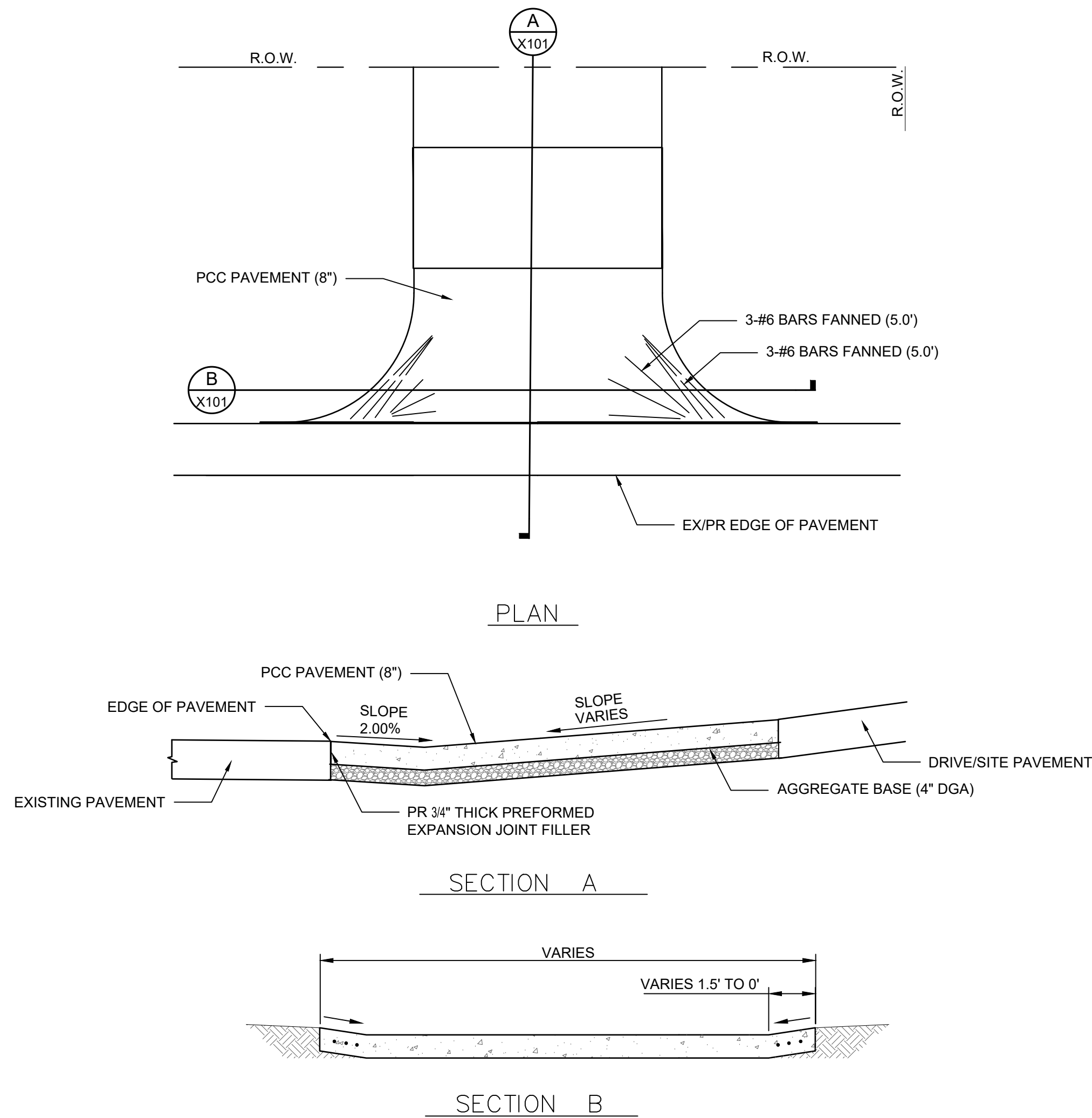
PROJECT NO.
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DRAWING ISSUED DATE:
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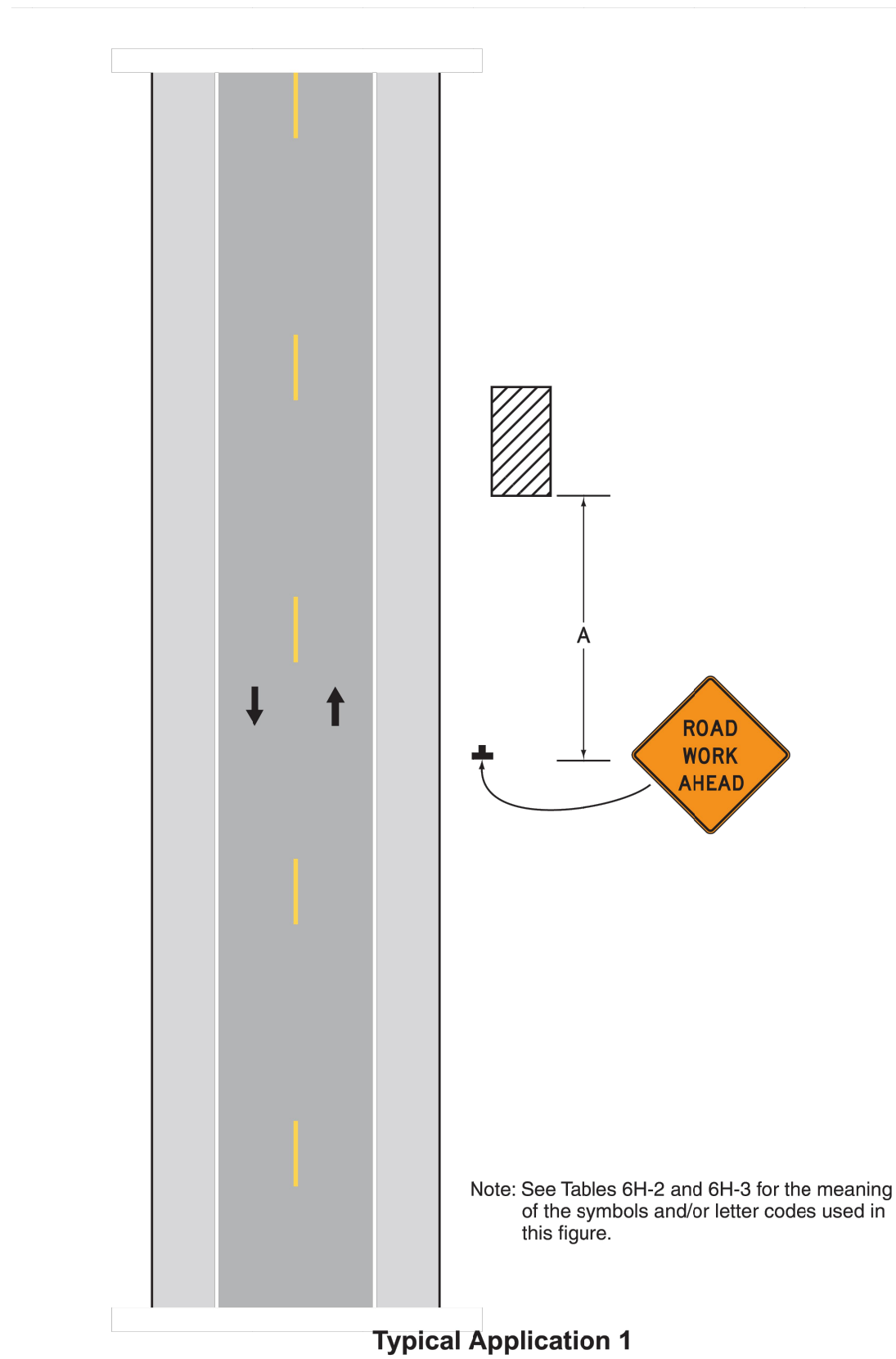
SHEET
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C503
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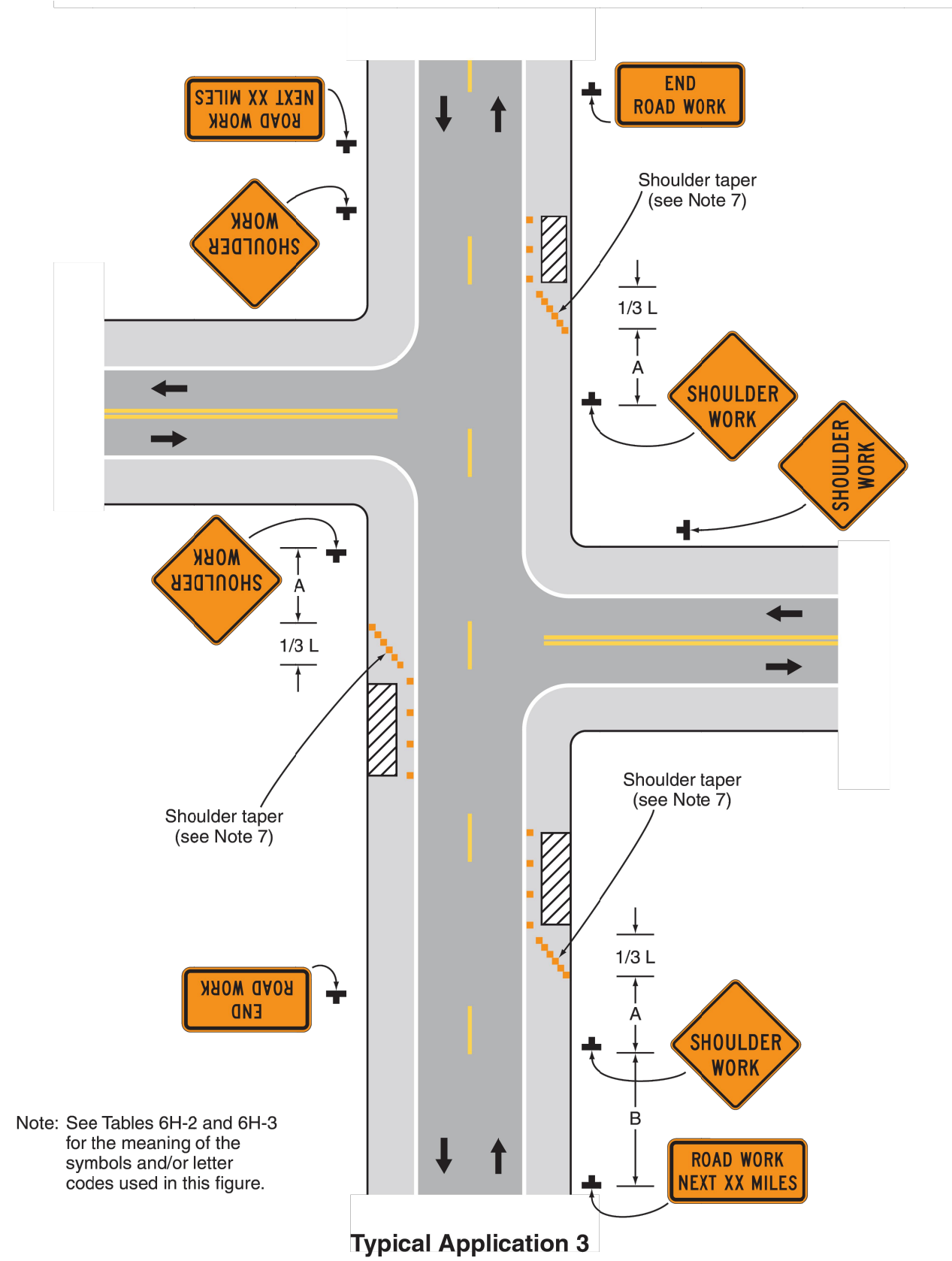




1 TYPICAL ENTRANCE DETAIL  
C504 NOT TO SCALE



2 KYTC WORK BEYOND SHOULDER (TA-1) DETAIL  
C504 NOT TO SCALE

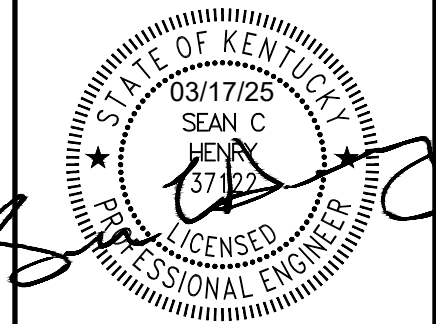


3 KYTC WORK ON SHOULDER (TA-3) DETAIL  
C504 NOT TO SCALE

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ACEE'S NEIGHBORHOOD MARKET & DELI  
1000 HOLIDAY LANE, FULTON, KY 42041  
GOLIGHTLY & LONG PROPERTIES LLC  
5820 CAIRO ROAD  
PADUCAH, KY 42001

Non-Reduced Sheet Size: 24" x 36"

Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

DESIGNED	DRAWN
SCH	SCH/TCR
FIELD	FIELD BOOK
SPS	N/A
CHECKED	CHECK DATE
SCH	03/16/2025

SHEET TITLE

SITE DETAILS

PROJECT NO.  
23-7038

DRAWING ISSUED DATE:  
03/17/2025

SHEET

C504



DEF 8,000 UNL 22,000 PRM 6,000 DSL 16,000

Tank Pit Bottom

Strap

3' 8' 5' 10' 3' 10' 3'

2'5"

43' 6"

37' 6"

18" W x 12" D Deadman Anchors with rebar loops.

Backfill with 3/8" or 1/2" Clean

Final Grade

Minimum 8" of Concrete

Sub Grade

32"

8' 5' 10' 3'

11' 6"

OSHA Slope as required

13' 6"

OSHA Slope as required

18" W x 12" D Deadman Anchors with rebar loops.

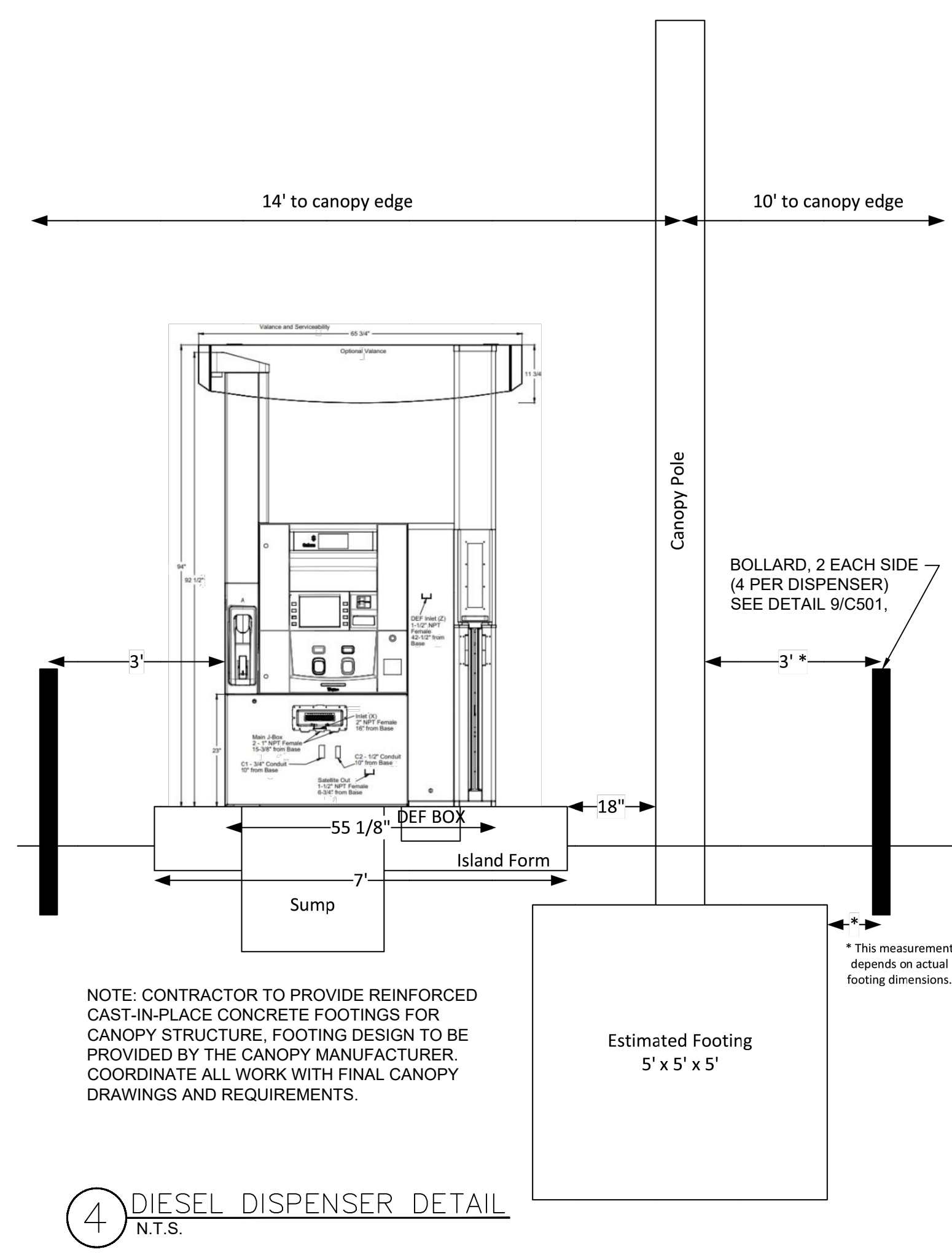
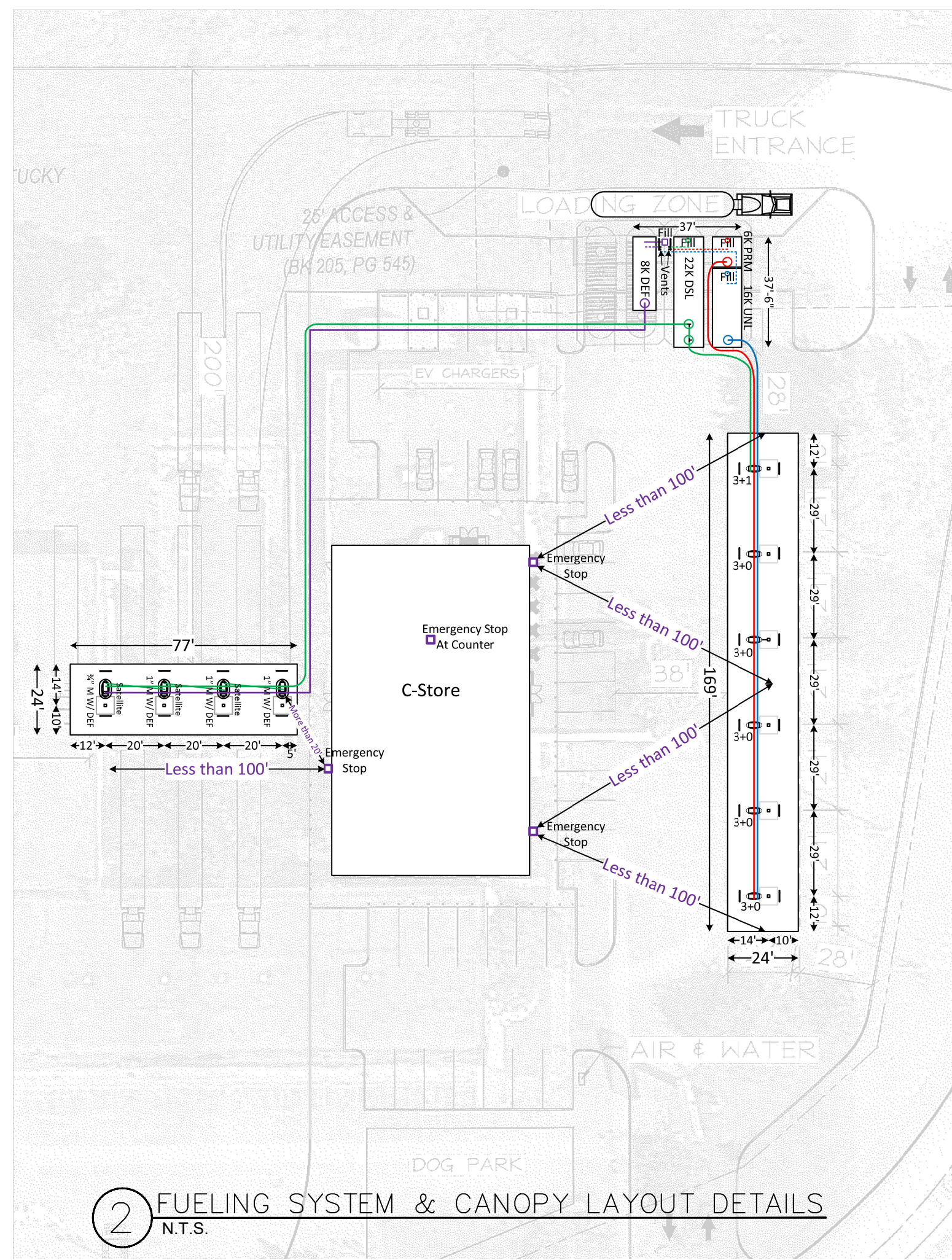
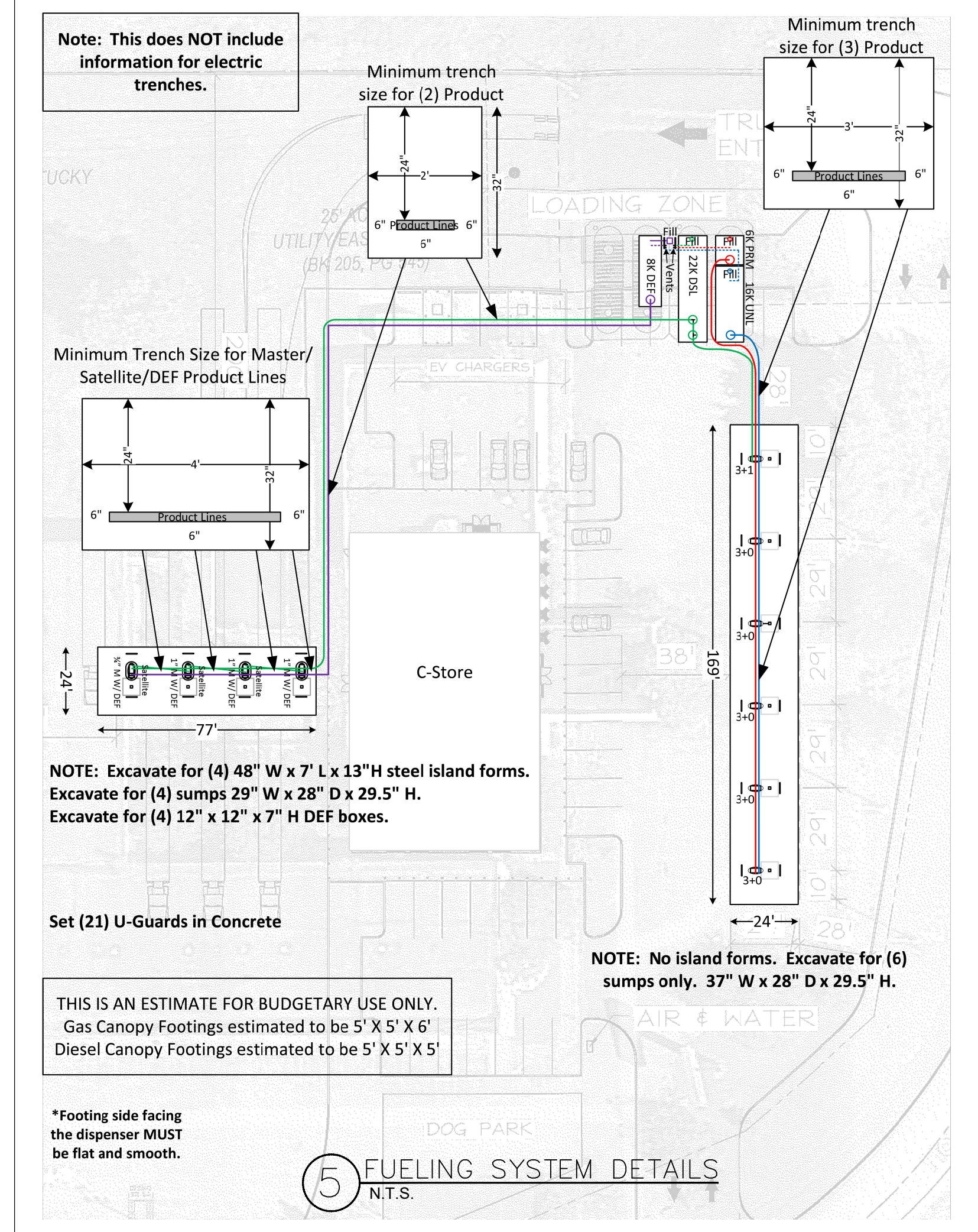
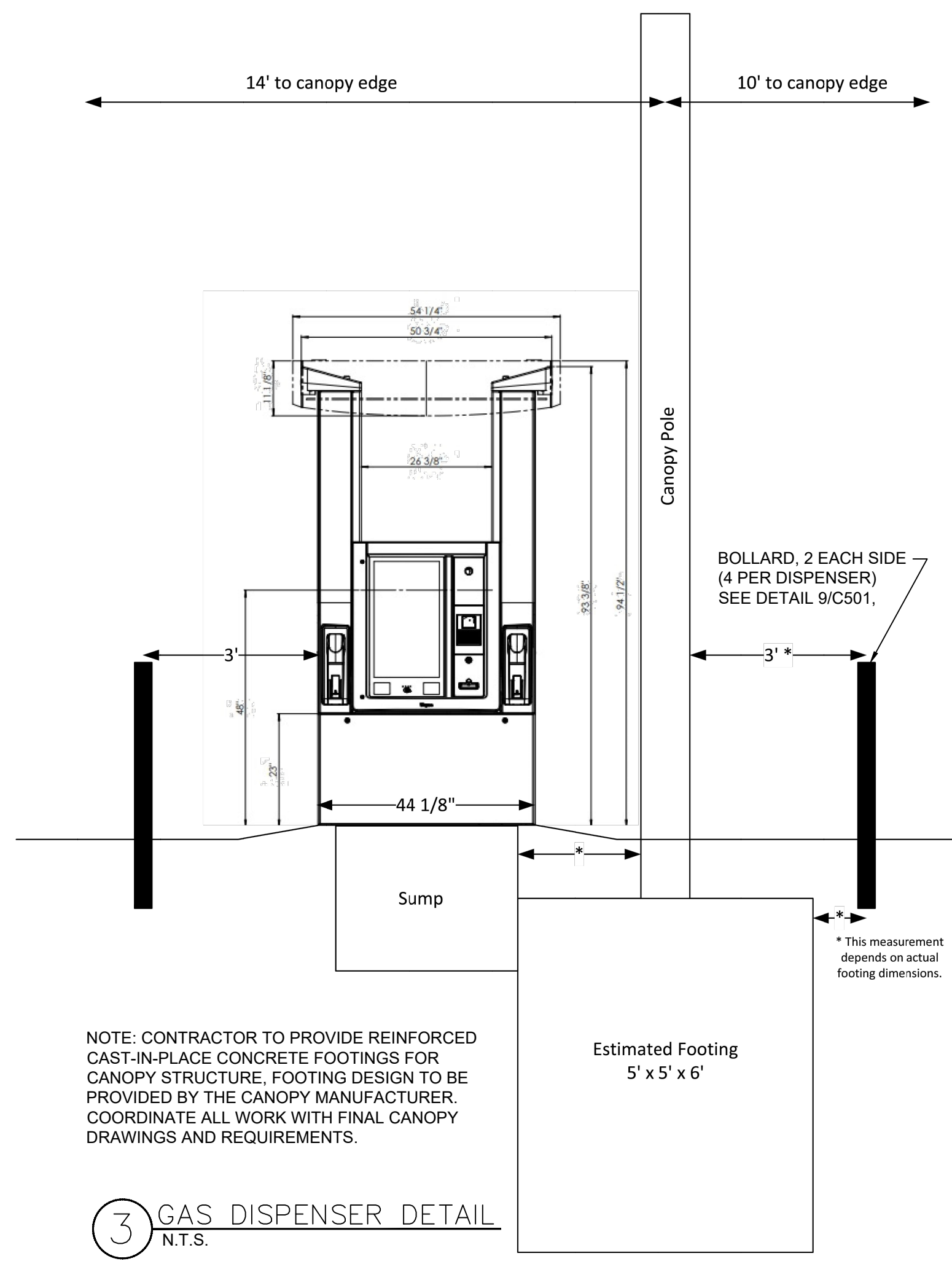
Tank Pit Bottom

12" clean backfill between the tanks and the pit bottom.

42'

1 TANK INSTALLATION DETAIL N.T.S.

Tank Pit Ases Fulton KY



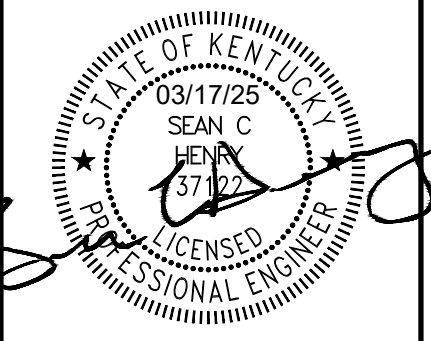
1. DETAILS ON SHEETS C601, C602 & C603 PROVIDED BY FUEL EQUIPMENT SUPPLIER AND ARE SUBJECT TO CHANGE. CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIER & ENGINEER.
2. FUEL EQUIPMENT, DISPENSORS, TANKS, CONTROLS, AND ACCESSORIES WILL BE PROVIDED BY THE OWNER.
3. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATIONS, BACKFILLING (INCLUDING AGGREGATE BACKFILL AND COMPACTION), CONCRETE, PAVING, INSTALLATION OF DIESEL ISLAND CURBS, PROVIDING AND INSTALLING DEAD MAN ANCHORS, TRENCHING AND BACKFILLING FOR FUEL LINES AND CONTROL/POWER WIRING, AND THE LIKE FOR ALL FUEL SYSTEM COMPONENTS.
4. FUEL SYSTEM SUPPLIER WILL PROVIDE, INSTALL AND CONNECT FUEL LINES; CONTRACTOR IS RESPONSIBLE FOR TRENCHING AND BACKFILLING ALL FUEL LINES.
5. THE FUEL SYSTEM SUPPLIER WILL PROVIDE AND INSTALL AND CONNECT ALL DISPENSORS AND APPURTENANCES.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONDUITS AND CONDUCTORS FOR THE FUEL SYSTEM (INCLUDING EMERGENCY STOPS AND SPARE CONDUITS AND CONDUCTORS) AS DETAILED AND NOTED ON PLAN SHEETS C301, C503, C504, C505 AND ELSEWHERE INCLUDING ALL TRENCHING AND BACKFILLING. ALL WORK AND NEEDS SHALL BE COORDINATED WITH THE FUEL SYSTEM SUPPLIER.
7. THE CONTRACTOR SHALL PROVIDE CONDUITS AND CONDUCTORS AS NECESSARY FOR THE FUEL SYSTEM CONTROLS, INTERCOMS, EMERGENCY STOPS AND APPURTENANCES AS NOTED AND REFERENCED ON THE PLANS, DETAILS, AND FUEL SYSTEM PACKAGE.
8. THE FUEL EQUIPMENT SUPPLIER WILL PROVIDE ALL TERMINATIONS OF FUEL SYSTEM CONDUCTORS AND WIRING.
9. THE CONTRACTOR WILL PROVIDE AND INSTALL ALL BOLLARDS AS NOTED (4 PER FUEL DISPENSOR). FINAL LOCATIONS OF BOLLARDS TO BE DETERMINED BY THE OWNER/ENGINEER.
10. THE CANOPY SYSTEMS WILL BE PROVIDED AND INSTALLED BY THE OWNER/CANOPY SUPPLIER.
11. THE CONTRACTOR SHALL PROVIDE REINFORCED CONCRETE FOOTINGS FOR CANOPIES, THIS WORK INCLUDES SUPPLYING ALL EXCAVATION, BACKFILLING, REINFORCEMENT, CONCRETE, AND INSTALLATION OF FOUNDATION ANCHOR BOLTS (ANCHOR BOLTS PROVIDED BY THE CANOPY SUPPLIER). ALL WORK SHALL BE COORDINATED WITH THE CANOPY SUPPLIER AND THE CANOPY FOOTING PLANS (TO BE SUPPLIED AT A LATER DATE).
12. CONTRACTOR LIGHT FIXTURES TO BE PROVIDED BY THE OWNER AND INSTALLED AND WIRED BY THE CONTRACTOR, COORDINATE ALL WORK WITH THE CANOPY SUPPLIER AND LIGHTING SUPPLIER. CONTRACTOR TO PROVIDE ALL CONDUITS, CONDUCTORS, TRENCHING, TERMINATIONS AND THE LIKE TO PROVIDE COMPLETE AND OPERATIONAL CANOPY LIGHTING SYSTEMS.

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REVISION HISTORY			
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LICENSE EXPIRES 06/30/25

ACEE'S NEIGHBORHOOD MARKET & DELI  
1000 HOLIDAY LANE, FULTON, KY 42041  
GOLIGHTLY & LONG PROPERTIES LLC  
5820 CAIRO ROAD  
PADUCAH, KY 42001

<b>Non-Reduced Sheet Size: 24" x 36"</b> Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.	
<b>DESIGNED</b> SCH	<b>DRAWN</b> SCH/TCR
<b>FIELD</b> SPS	<b>FIELD BOOK</b> N/A
<b>CHECKED</b> SCH	<b>CHECK DATE</b> 03/16/2025

SHEET TITLE

## FUEL SYSTEM DETAILS

PROJECT NO.

DRAWING ISSUED DATE:

SHEET

# C601

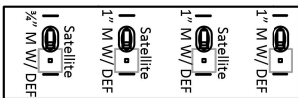


IMPORTANT\*\*\*\*\* Wires specified on this diagram are typical gauges. Actual wire gauge needs to be determined by a certified electrician based on amp draw and length of run.

All dispensers and Veeder Root System to be on the same Phase

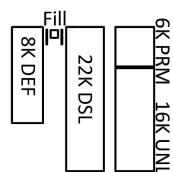
- Notes:
- Use rigid conduit per regulations.
  - Pour seal-offs at both ends of conduit.
  - All cables Must be oil and gas resistant.
  - Pull all wire into the junction boxes.
  - Mid-South Steel to make final connections ONLY.
  - Follow all local, state, and federal regulations.
  - Confirm wire gauge based on actual runs.

## Diesel Canopy

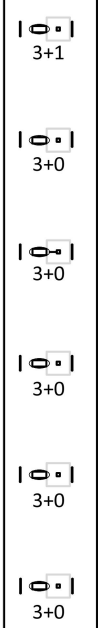


C-  
STORE

## Tanks



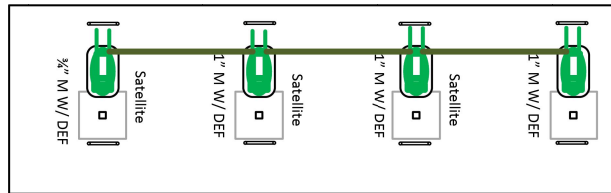
## Gas Canopy



NOTE: This does NOT include conduit or wire for the canopy lights, flood lights, or the area lights. The electrician is responsible for determining what is required based on the light specs.

1-Acee's  
Fulton, KY

## Diesel Canopy



All dispensers and Veeder Root System to be on the same Phase

### Diesel Dispenser w/DEF (2) Conduits per dispenser – 4 Dispensers

Minimum Wires:  
Conduit #1 - ACH Power-10ga Black / Neutral-10ga White / Ground-10ga Green / 14ga Yellow / 14ga Brown  
Conduit #2 – Dispenser COM 16-2 Shielded Cable G11602 / Intercom 18-4 Shielded Cable G11804 / Sensor 22-2 Shielded Cable G12202-03

Recommended Spares:  
Conduit #1 - 10ga Orange / 14ga Purple  
Conduit #2 – Dispenser COM 16-2 Shielded Cable G11602 / Intercom 18-4 Shielded Cable G11804  
Conduit #3 – Spare Empty Conduit

### Diesel Master to Satellite (1) Conduit from each Master to each Satellite – 3 Runs

Minimum Wires:  
Conduit #1 - 14ga Black / 14ga White / 14ga Green / 14ga Blue / 14ga Yellow / 14ga Red

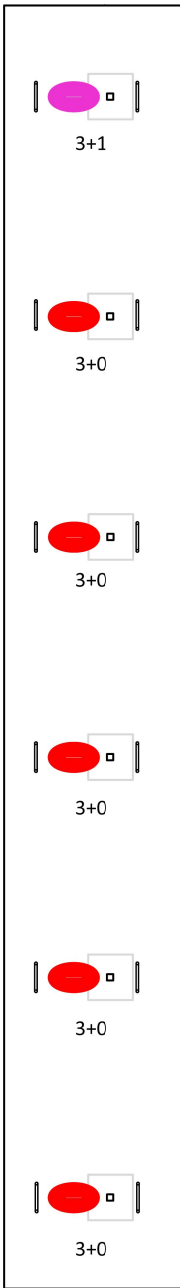
Recommended Spares:  
Conduit #1 - 14ga Orange / 14ga Purple

Conduits will come up outside of the dispenser sumps and need to run into the dispensers' J-Boxes  
Conduits run to back room  
10ga. Hot, Neutral, Ground wires connect to shunt trip breaker or relays.  
14ga. Hook wires connect to hook isolation relay.  
16-2 Dispenser Com cable connects to Universal D-Box.  
18-4 Intercom cable connects to Intercom controller.  
22-2 Sensor to Veeder Root.

3-Acee's  
Fulton, KY

## Gas Canopy

All dispensers and Veeder Root System to be on the same Phase



### 3+1 Dispenser (2) Conduits per dispenser – 1 Dispenser

Minimum Wires:  
Conduit #1 - ACH Power-12ga Black / Neutral-12ga White / Ground-12ga Green / 14ga Blue / 14ga Red / 14ga Yellow  
Conduit #2 – Dispenser COM 16-2 Shielded Cable G11602 / Intercom 18-4 Shielded Cable G11804 / Sensor 22-2 Shielded Cable G12202-03

Recommended Spares:  
Conduit #1 - 12ga Orange / 14ga Purple  
Conduit #2 – Dispenser COM 16-2 Shielded Cable G11602 / Intercom 18-4 Shielded Cable G11804  
Conduit #3 – Spare Empty Conduit

### 3+0 Dispenser (2) Conduits per dispenser – 5 Dispensers

Minimum Wires:  
Conduit #1 - ACH Power-12ga Black / Neutral-12ga White / Ground-12ga Green / 14ga Blue / 14ga Red  
Conduit #2 – Dispenser COM 16-2 Shielded Cable G11602 / Intercom 18-4 Shielded Cable G11804 / Sensor 22-2 Shielded Cable G12202-03

Recommended Spares:  
Conduit #1 - 12ga Orange / 14ga Purple  
Conduit #2 – Dispenser COM 16-2 Shielded Cable G11602 / Intercom 18-4 Shielded Cable G11804  
Conduit #3 – Spare Empty Conduit

Conduits will come up outside of the dispenser sumps and need to run into the dispensers' J-Boxes

Conduits run to back room

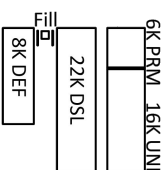
12ga. Hot, Neutral, Ground wires connect to shunt trip breaker or relays.  
14ga. Hook wires connect to hook isolation relay.  
16-2 Dispenser Com cable connects to FCI.  
18-4 Intercom cable connects to Intercom controller.  
22-2 Sensor to Veeder Root.

2-Acee's  
Fulton, KY

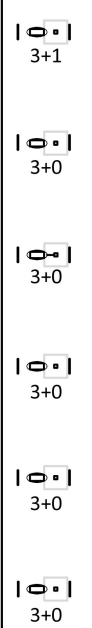
## Emergency Stops

Electrician is responsible for providing the shunt-trip-breakers, or the relays for the emergency stops depending on the method selected.

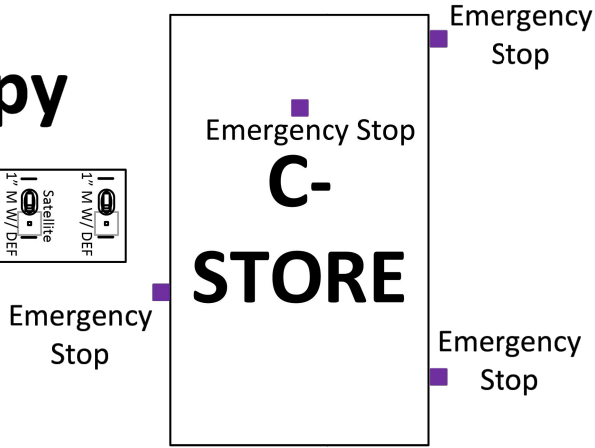
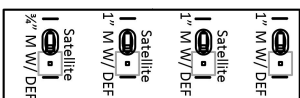
## Tanks



## Gas Canopy



## Diesel Canopy



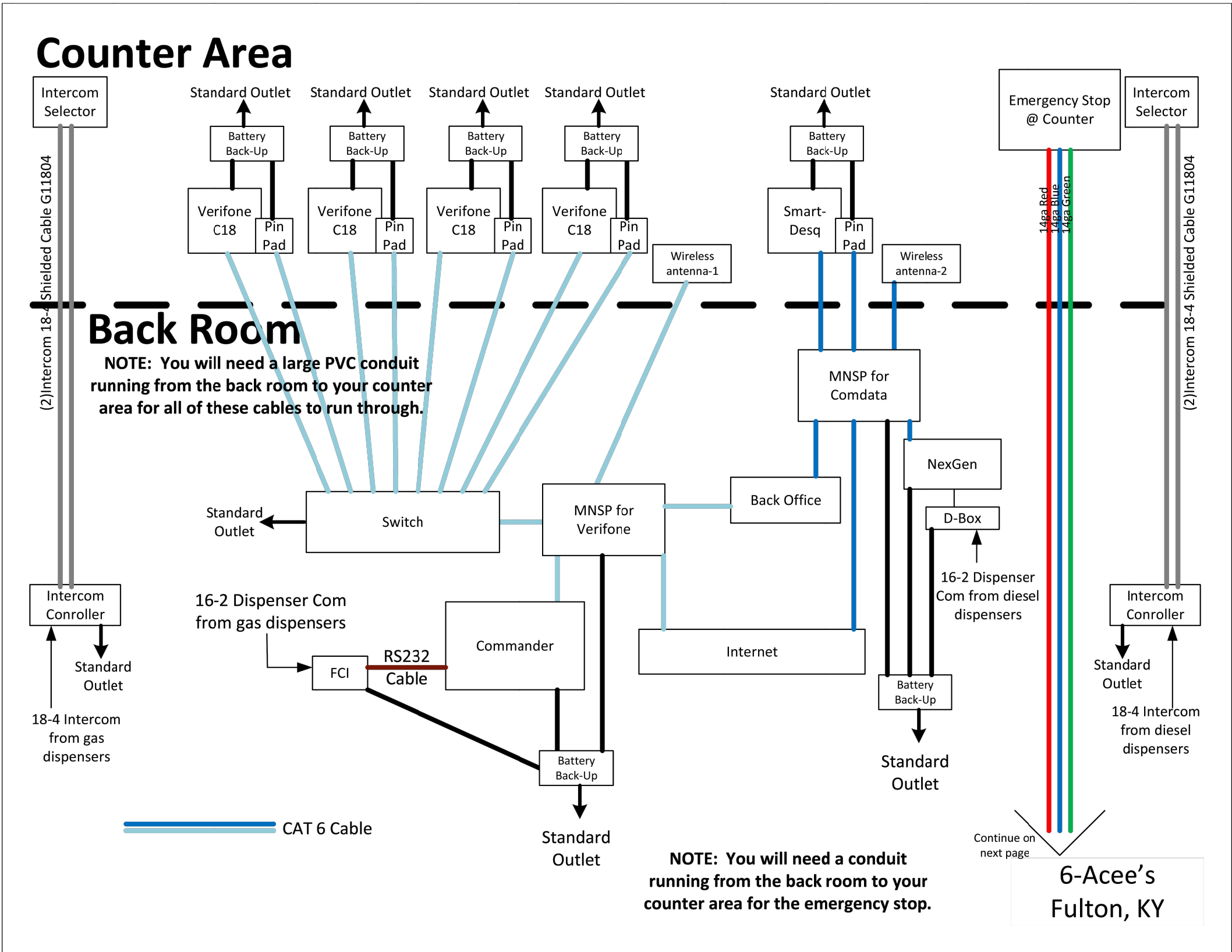
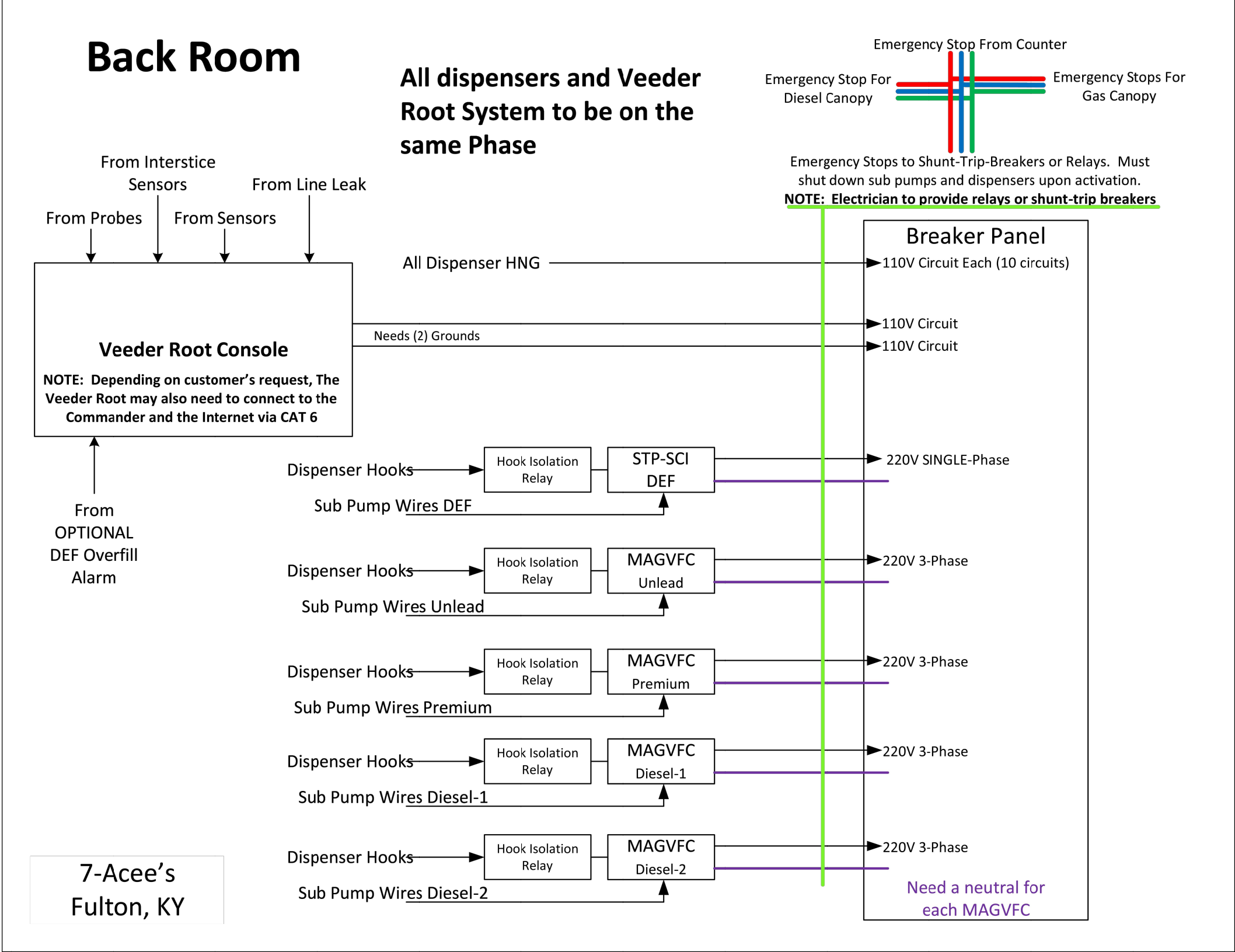
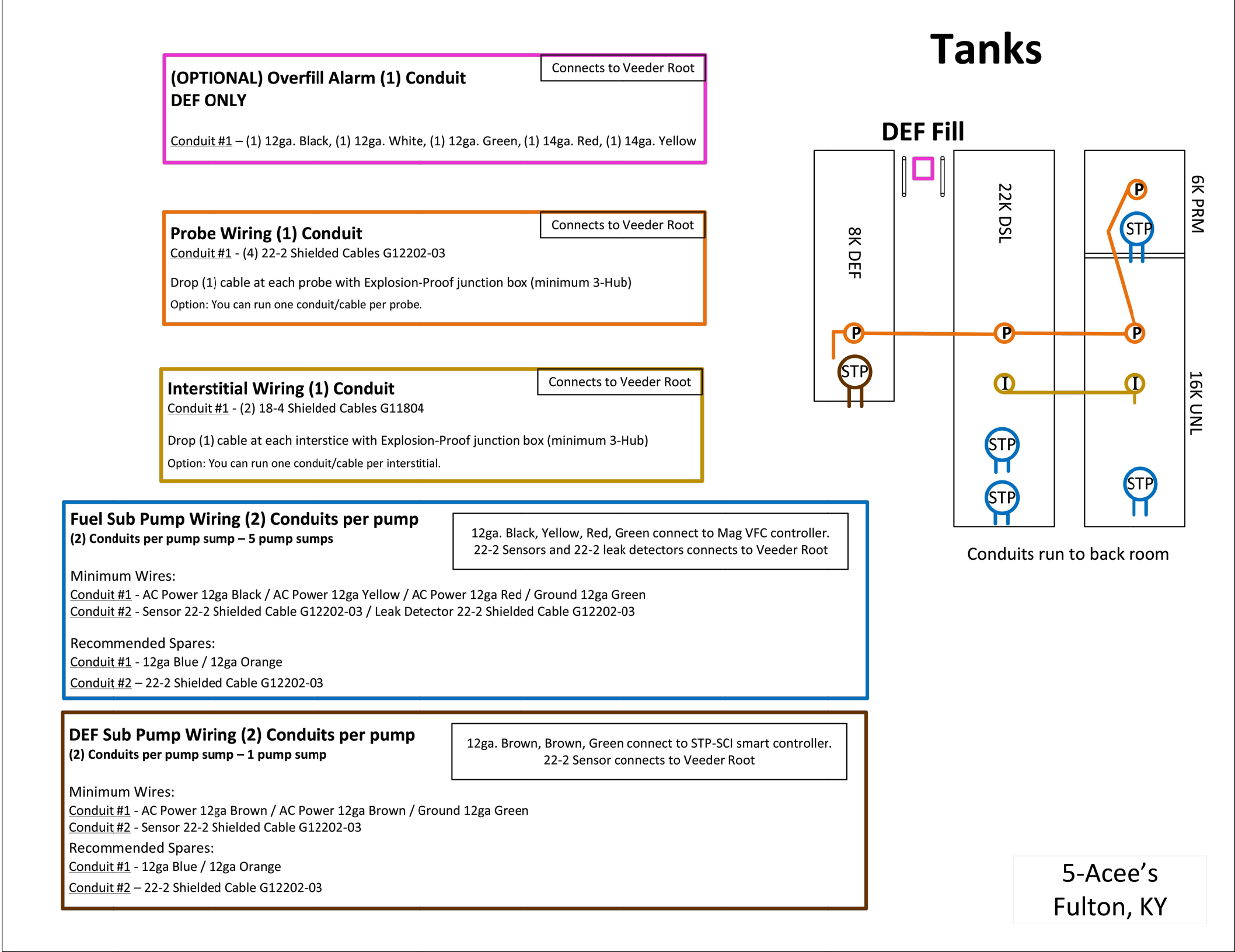
### Emergency Stop (1) Conduit Conduit #1 – 14ga Red / 14ga Blue / 14ga Green

Daisy Chain Emergency Stops together. E-Stops must kill power to the dispensers and the submerged pumps. Use Shunt-Trip-Breakers or relays.

Conduits run to back room and connect to shunt trip breaker or Relays

4-Acee's  
Fulton, KY







10/15/2024 10:21:54 AM  
C:\Users\rlueth\Documents\S22 Acee's Fulton, KY 23 7038 rlueh.rvt

DESIGN CRITERIA

1. BUILDING CODES:  
A. IBC 2015 and 2018 Kentucky Building Code  
B. ASCE 7-10

2. DESIGN LOADS:  
A. Risk Category II  
B. Dead Loads  
a. Top Chord Dead Load = 10 psf  
b. Bottom Chord Dead Load = 10 psf  
c. Bottom Chord Colateral = 5 psf

C. Live Loads  
a. Roof = 20 psf

D. Roof Snow Load  
a. Ground Snow Load, P<sub>g</sub> = 15 psf  
b. Flat Roof Snow Load, P<sub>f</sub> = 11 psf  
c. Minimum Snow Load, P<sub>m</sub> = 20 psf  
d. Snow Load Importance, I<sub>s</sub> = 1.0  
e. Snow Exposure Factor, C<sub>e</sub> = 1.0  
f. Roof Thermal Factor, C<sub>t</sub> = 1.0  
g. Drifting: (See Special Loading Diagram for Drift Loads)

E. Wind Loading  
a. Basic Wind Speed, V<sub>ult</sub> = 115 mph  
b. Risk Category = II  
c. Exposure Category = C  
d. Internal pressure Coefficient, GC<sub>pi</sub> = ±0.18  
e. Components and Cladding Design per ASCE 7-10

- Net Uplift for Truss Design (0.6D+0.6W) = 10 psf

F. Seismic Loading  
a. Risk Category = II  
b. Importance Factor, I<sub>e</sub> = 1  
c. Site Class D  
d. S<sub>MS</sub> = 0.824 (S<sub>s</sub> = 122.2%)  
e. S<sub>MI</sub> = 0.441 (S<sub>1</sub> = 41.8%)  
f. Seismic Response Coefficient, C<sub>s</sub> = 0.127  
g. Seismic Design Category D  
h. Design Coefficients and Factors for Seismic Force-Resisting Systems

- Resisting System - Light-frame (wood) walls sheathed with wood structural panels rated for shear resistance.
  - Response Coefficient, R = 6.5
  - Deflection Amplification Factor, C<sub>d</sub> = 4
  - System Overstrength Factor, Ω<sub>s</sub> = 3

i. Component Design per ASCE 7-10

j. Seismic Base Shear = W x C<sub>s</sub>

SPECIAL STRUCTURAL INSPECTIONS AND TESTING (NOT BY CONTRACTOR)

1. Owner will engage a qualified testing and inspecting agency to perform field special structural inspections and testing in accordance with the applicable International Building Code and to submit reports. See specifications.

2. The Contractor shall provide a minimum of 48 hrs. notification to the Special Inspector prior to needing an inspection. The Contractor shall provide access to the work so the Special Inspections can be completed. The Contractor shall verify all Special Inspections have been completed and discrepancies corrected prior to covering the work.

3. Special inspection and testing reports shall be furnished to owner, structural engineer, and contractor.

4. The special inspector shall submit a final report stating that the structural work was, to the best of the special inspector's knowledge, performed in accordance with the construction documents.

5. Special inspections shall conform to Chapter 17 of the International Building Code, IBC, 2015. Special inspections include:  
A. Concrete Construction - Table 1705.3  
B. Soils - Table 1705.6  
C. Wood Construction  
D. Wind Resistance, 1705.11  
E. Seismic resistance, 1705.12

ABBREVIATIONS

&  
AB  
ALT  
ARCH  
@

BLDG  
BM  
BO  
BOT  
BRG  
BRDG  
BTW  
BYD

AND  
ANCHOR BOLT  
ALTERNATE  
ARCHITECT  
AT

LG  
LL  
LLH  
LLV  
LONG  
LWC

BUILDING  
BEAM  
BOTTOM OF  
BEARING  
BRIDGING  
BETWEEN  
BEYOND

MAX  
MECH  
MIN  
MFR

OC  
OH  
OPNG  
OPP

ON CENTER  
OPPOSITE HAND  
OPENING  
OPPOSITE

CIP  
CL  
CLR  
CMU  
COL  
CONC  
CTR

CAST IN PLACE  
CONSTRUCTION JOINT  
CENTERLINE  
CLEAR  
CONCRETE MASONRY UNIT  
COLUMN  
CONCRETE  
CENTER

PAR  
PEMB  
PERP  
PL (F)  
PSF  
PT

PARALLEL  
PRE-ENGINEERED METAL BUILDING  
PERPENDICULAR  
PLATE  
POUNDS PER SQUARE FOOT  
PRESSURE TREATED

DBA  
DBL  
DIA (Ø)  
DIAPH  
DL  
DWLS

DEFORMED BAR ANCHOR  
DOUBLE  
DIAMETER  
DIAPHRAGM  
DEAD LOAD  
DOWELS

SCH  
SIM  
SL (S)  
STAGG  
STD  
STIFF

SCHEDULE  
SIMILAR  
STEEL LINE  
STAGGERED  
STANDARD  
STIFFENER

EA  
ELEV (EL)  
EMBED  
EW  
EX

EACH  
EACH FACE  
ELEVATION  
EMBEDMENT  
EACH WAY  
EXISTING

TBR  
THK  
THRU  
TO  
TOF  
TOS  
TOW  
TRANS  
TYP

TO BE REMOVED  
THICK  
THROUGH  
TOP OF  
TOP OF FOOTING  
TOP OF STEEL  
TOP OF WALL  
TRANSVERSE  
TYPICAL

FB  
FDN  
FF  
FLR  
FTG  
FV

FIELD BEND  
FOUNDATION  
FINISHED FLOOR  
FLOOR  
FOOTING  
FIELD VERIFY

UNO

UNLESS OTHERWISE NOTED

GA  
GALV

GAUGE  
GALVANIZED

VERT

VERTICAL

HDR  
HGR  
HORIZ  
HS  
HSS  
HT

HOT DIP GALVANIZED  
HEADER  
HANGER  
HORIZONTAL  
HEADED STUD  
HOLLOW STRUCTURAL SECTION  
HEIGHT

W/  
WF  
WO  
WP  
WWF  
W.R.

WITH  
WIDE FLANGE  
WITHOUT  
WORKING POINT  
WELDED WIRE FABRIC  
WATER REDUCER

ID  
JST

INSIDE DIAMETER  
JOIST

GENERAL

1. The structure is designed to be self-supporting and stable after the building is fully completed. It is solely the contractor's responsibility to determine erection procedure and sequence and ensure the safety of the construction personnel, public, building and its components parts, and adjacent buildings and properties. This includes the addition of whatever temporary or permanent shoring, bracing, needling, underpinning, or sheet piling, etc. that may be necessary to brace new construction, adjacent buildings, so that the structure is braced for wind, seismic, gravity, construction loads, etc. and that no horizontal or vertical settlement or any damage occurs to the adjacent existing structure. Temporary supports shall be maintained in place until permanents supports and/or shoring and bracing are installed.

2. Fall protection support from perimeter columns or walls shall be provided in accordance with OSHA requirements as required. Such material shall remain the contractor's property after the completion of the project.

3. It is the contractor's responsibility to enforce all applicable safety codes and regulations during all phases of construction.

4. The contractor shall perform all construction for the project in a manner and sequence that are based on accepted industry standards that recognize the interaction of the components that comprise the structure, without causing distress, unanticipated movements or irregular load paths as a result of the construction means and methods employed.

5. Construction loads shall not exceed design live loads. The contractor shall be responsible for all design required to support construction equipment used in constructing this project. Shoring and reshoring is the responsibility of the contractor.

6. Principal openings through the framing are shown on these drawings. The general contractor shall examine the structural and mechanical drawings for the required openings and shall verify size and location of all openings with the mechanical contractor. Providing all openings required by the mechanical, electrical, plumbing, or other trades shall be part of the general contract, whether or not shown in the structural drawings. Any deviation from the openings shown on the structural drawings shall be brought to the engineer's attention for review.

7. All contractors are required to examine the drawings and specifications carefully, visit the site and fully inform themselves as to all existing conditions and limitations, prior to agreeing to perform the work. Failure to visit the site and familiarize themselves with the existing conditions and limitations will in no way relieve the contractor from furnishing any materials or performing any work in accordance with drawings and specifications without additional cost to the owner.

8. Contractor shall verify all dimensions and conditions at the job site before commencing work and shall report any discrepancies to the engineer.

9. Omissions or conflicts between various elements of the drawings, notes, details and specifications shall be brought to the attention of the engineer and resolved before proceeding with the work.

10. Details labeled "Typical Details" on drawings apply to situations occurring on the project that are the same or similar to those specifically details. Such details apply whether or not details are referenced at each location. Notify engineer of clarification regarding applicability of "Typical Details".

11. Work these drawings with architectural, civil, mechanical, and electrical drawings.

12. Do not scale drawings.

13. Should any of the general notes conflict with any details or instructions on plans, the strictest provision shall govern.

14. Coordinate masonry and concrete work with the plumbing. The plumbing shall not be placed inside of exterior reinforced masonry walls where it could freeze. Route plumbing around masonry cells and knock-out bond beams with reinforcing steel. Do not place plumbing in masonry cells with reinforcing steel. Maintain the continuity of the masonry horizontal joint reinforcing. Do not route plumbing vertically through footings. The plumbing engineer needs to be informed when there may be conditions like those described above.

15. Shop drawings and submittals:

A. These drawings shall be checked and coordinated with other materials and contracts by the general contractor and shop drawings and submittals shall bear the contractor's review stamp with the checker's initials before being submitted to the architect for approval.

B. When the fabricator has been authorized to use the architect and engineer's drawings as erection drawings, the fabricator must remove all title blocks, professional seals and any other reference to the architect and engineer from that erection drawing. The fabricator's name and title shall be placed on the erection drawing.

OVER EXCAVATION FILL UNDER ALL FOOTINGS

1. Portions of the lessial soils and/or recent fill will be soft and unstable due to excessive moisture. Unsuitable (soft or unstable) natural soils and/or recent fill shall be removed from the footing excavations, and replaced with suitable material as recommended below. Observation by a geotechnical engineer is required at the time of excavation to determine the presence and competency of the expected bearing strata and to document removal of unsuitable soils.

2. Replacement material for unsuitable soils in footings may consist of suitable lean clay (LL<45%, PI<22%) or granular material (IDOT CA6) that is placed in 8" or less lifts and compacted to at least 95% of the standard proctor maximum dry density (ASTM D 698) at moisture contents of - 2% to +4% of optimum or flowable fill (Controlled Low Strength Material, CLSM).

3. The depth of overexcavation under footings should be at least 2 feet below the bottom of footing/or to adequate bearing material, whichever is deeper) and the overexcavation should be at least 50% wider than the footing width for lateral stress dissipation. If flowable fill is used as replacement material below footings, over widening is not necessary. Backfill materials required for confined spaces such as the former septic tank (if present) and/or other buried structures left in-place should consist of clean gravel or crushed stone that is compacted to at least 75% of the maximum relative dry density as per ASTM D 4253 and D 4254 or flowable fill.

BUILDING PAD PREPARATION

1. All building pad preparation shall follow the recommendations of the geotechnical report, unless otherwise noted.

2. All trees, brush, roots, topsoil, rubble, organically contaminated or otherwise objectionable materials encountered are to be removed from the structural areas of the site.

3. Subgrade sectors which will exist in cut and those which are to support fill structures are to be proof rolled. Areas exhibiting instability are to be over excavated and back filled on a lift-by-lift basis with each lift carefully compacted.

4. If unstable subgrade sectors cannot be stabilized by excavation and recompaction, then crushed stone or similar coarse aggregate material shall be rolled into the subgrade until a firm subgrade reaction is achieved.

5. Replacement material for unsuitable soils in footings may consist of suitable lean clay (LL<45%, PI<22%) or granular material (IDOT CA6) that is placed in 8" or less lifts and compacted to at least 95% of the standard proctor maximum dry density (ASTM D 698) at moisture contents of - 2% to +4% of optimum or flowable fill (Controlled Low Strength Material, CLSM).

6. Low volume change (LVC) material shall be placed 24" immediately below floor slabs. LVC material may consist of suitable lean clay (LL<45%, PI<25%) or granular material (IDOT CA6) that is placed in 8" or less lifts and compacted to at least 95% of the standard proctor maximum dry density (ASTM D 698) at moisture contents of -2% to +4% of optimum.

7. The proposed engineered fill materials are to be placed in lifts not exceeding eight (8) inches in loose measured thickness.

A. Each lift is to be compacted as follows:

a. Slab-on-grade: Minimum of 98% maximum density by ASTM D698

b. Footings: Minimum of 95% maximum density by ASTM D698.

c. Material shall consist of suitable lean clay (LL<45%, PI<22%) or granular material (IDOT CA6) that is compacted to at least 95% of the standard proctor maximum dry density (ASTM D 698) at moisture contents of - 2% to +4% of optimum or flowable fill (Controlled Low Strength Material, CLSM)

FOUNDATION

1. The contractor shall familiarize themselves with the survey and the geotechnical investigation report before starting construction. All foundation work shall be in accordance with the recommendation of the geotechnical report by Holcomb Foundation Engineering(HFE) dated June 3, 2024, except where noted otherwise on drawings or specifications

2. A soils testing laboratory shall be retained by the owner for project construction review to insure conformance with the construction documents during the excavation, back fill, and foundation phases of the project.

3. Foundation design is based on:

A. 1500 psf net allowable soil bearing pressure for isolated column footings.

B. 1200 psf net allowable soil bearing pressure for continuous wall footings.

4. All fill material shall be free of organic contaminations and other deleterious matter.

5. All soil surrounding and under footings shall be protected from frost action and freezing during the course of construction.

6. Notify structural engineer of any unusual soil conditions that are in variance with the geotechnical report.

7. Footing excavations should be made to the required limits and grades as rapidly as possible. Footing excavations be left open for a minimum of time to prevent disturbance to the foundation soils. Foot traffic should be prevented on the base of the footing excavations if disturbance is noted. Hand cleaning, if required and setting of reinforcing steel should then be accomplished from the sides of the excavation.

POST INSTALLED ANCHORS

1. Concrete adhesive anchors Hilti HY200 or approved equal. Concrete Mechanical Anchors Hilti Kwik Bolt TZ2 or approved equal.

2. Masonry adhesive anchors Hilti HY270 or approved equal. Masonry Mechanical Anchors Hilti Kwik Bolt III in grouted CMU or approved equal.

3. Submit ICC-ES reports for all post installed anchors.

4. Install all post installed anchors per the product's ICC-ES report and the manufacturer's written instructions.

5. Post installed anchors shall be inspected per the product's ICC-ES report.

6. Install adhesive anchors in dry hammer drilled holes.

CAST-IN-PLACE CONCRETE

1. All concrete construction shall conform to ACI 301, "Specification for Structural Concrete" and ACI 302, "Guide for Concrete Floor and Slab Construction", ACI 305 "Specification for Hot Weather Concreting" and ACI 306, "Standard Specification for Cold Weather Concreting", unless noted otherwise for the year referenced in the building code noted.

2. All detailing, fabrication and placing of reinforcing bars, unless otherwise noted, shall conform to ACI 318, "Building Code Requirements for Structural Concrete", ACI 117, "Specification for Tolerances for Concrete Construction and Materials", and the latest ACI detailing manual.

3. Concrete Types:

A. Interior Concrete:

a. Min. Cementitious Content = 564 lb/cu yd

b. Max Water-Cement Ratio = 0.45

c. Specified 28-day Compressive Strength, f<sub>c</sub> = 4000 psi

d. Specified Slump Range for Placement 4" max. w/o W.R. (8" max with W.R.)

e. Specified Air Content % by Volume = 0 - 3 (Entrapped)

f. Max Size Aggregate = 1"

B. Concrete Permanently Exposed to Weather; Exterior Walls, Exterior Footings:

a. Min. Cementitious Content = 658 lb/cu yd

b. Max Water-Cement Ratio = 0.42

c. Specified 28-day Compressive Strength, f<sub>c</sub> = 4500 psi

d. Specified Slump Range for Placement 4" max. w/o W.R. (8" max with W.R.)

e. Specified Air Content % by Volume = 6.0 to 8.5

f. Max Size Aggregate = 1"

C. Concrete Permanently Exposed to Weather & Deicing Chemicals; Exterior Stoops:

a. Min. Cementitious Content = 658 lb/cu yd

b. Max Water-Cement Ratio = 0.40

c. Specified 28-day Compressive Strength, f<sub>c</sub> = 5000 psi

d. Specified Slump Range for Placement 4" max. w/o W.R. (8" max with W.R.)

e. Specified Air Content % by Volume = 6.0 to 8.5

f. Max Size Aggregate = 1"

D. All cement shall be Type I or Type III Portland Cement per ASTM C150 or ASTM C595 Type IP or IL. Types IA is not acceptable type. IP is acceptable, if strength is met and total pozzolans do not exceed the specified limits in ACI 301. Use one brand of cement throughout the project.

E. Minimum cementitious content shall consist of 100% cement or a combination of flyash (see note below), or a combination of cement and ground granulated blast furnace slag (GGBFS) (see note below). Flyash shall not be used in combination with GGBFS as a substitute for cement.

F. Flyash is permitted and shall conform to ASTM C618 Type C (for interior use w/no exposure to weather changes) or F, but shall not exceed 20% of cementitious content by weight indicated above on a substitution basis and shall be included in the water-cement ratio.

G. Ground granulated blast furnace slag (GGBFS) is permitted and shall conform to ASTM C389, but shall not exceed 15% of cementitious content by weight indicated above on a substitution basis and shall be included in the water-cement ratio.

H. Concrete used for floors shall have 1800 psi, 3 day strength. Mixes to be pumped shall be so identified on the mix design submittal. All pumped mixes shall have a mid-range or high-range water reducer.

I. All admixtures other than superplasticizers shall be added at the batch plant. Superplasticizers, designed for addition to the mix at the plant, may be added at the batch plant with verifications from the engineer and verification that the water-cement ratio has not been exceeded. Superplasticizers added at the site shall be in pre-measured containers from the batch plant.

J. All concrete used for cast-in-place concrete slabs shall contain the specified water reducing or water reducing/retarding admixture. All concrete slabs, placed at air temperature below 50°F shall contain the specified non-corrosive, non-chloride accelerator. All concrete placed at air temperature above 80°F shall contain specific water-reducing/retarder admixture. All concrete required to be air-entrained shall contain an approved air-entraining admixture. All pumped concrete shall contain the specified high-range water-reducing admixture. Concrete with a water-cement ratio between 0.4 and 0.6 shall contain the specified water-reducer.

K. Calcium chloride shall not be permitted nor shall any admixture containing calcium chloride be permitted.

4. All pipe sleeve openings through concrete slabs shall be formed with standard steel pipe.

5. No electrical conduit shall be placed above the welded wire fabric or top reinforcing of slab.

6. All aluminum in contact with concrete or dissimilar metals shall be coated with two coats of coal tar epoxy, approved by the engineer, unless otherwise noted.

7. Concrete shall be discharged at the site within 1 ½ hours after water has been added to the cement and aggregates. Addition of water to the mix at the project site will not be permitted. All water must be added at the batch plant. Slump may be adjusted only through the use of additional water reducing admixtures or high range water reducing admixture.

8. All concrete shall be placed without horizontal construction joints, except where specifically noted.

9. All exposed edges of concrete members shall be chamfered ¼" unless shown otherwise.

10. See architectural drawings for concrete finishes, masonry anchors, and for miscellaneous embedded plates, bolts, anchors, angles, etc.

11. The placement of sleeves, outlet boxes, box-outs, anchors, etc., for the mechanical, electrical and plumbing trades is the responsibility of the trade involved; however, any box-outs not covered by typical details in structural drawings shall be submitted for approval.

12. Reinforcing bars shall conform to ASTM A615, Grade 60. No tack welding of reinforcing in the field will be permitted.

13. Reinforcing bars for welded applications shall conform to ASTM A706, Grade 60.

14. Welded wire fabric reinforcing shall conform to ASTM A185 and be furnished in flat sheets and installed on chairs.

15. Wire bar supports shall be furnished for all reinforcing within slabs, inclusive of welded wire fabric. Bottom bars in slabs-on-grade may be supported by other suitable supports. Reinforcing shall be properly positioned prior to concrete placement and may not be re-positioned once concrete operations have begun. Wire bar and other types of supports shall be in accordance with the concrete reinforcing steel institute manual of standard practice.

16. Reinforcement shall be continuous through all construction joints unless otherwise noted on drawings.

17. All hooks shown on drawings shall be ACI standard hooks, unless otherwise noted.

18. Where continuous bars are called for, they shall run continuously around corners and be lapped at necessary splices. Lap lengths shall be as given in the splice and development table.

19. Provide additional reinforcing at the side and corners of all openings in concrete in accordance with typical details.

A. Minimum additional requirements are as follows:

a. (2)-#5 top and bottom in CIP Concrete Slabs

b. (2)-#5 each face in walls

c. (2)-#5 x 4'-0" long diagonally each corner of opening

B. Extend bars a minimum of 2'-0" beyond openings, hook where extension is not possible.

20. In reinforced concrete walls, grade beams and trench footing provide corner dowels of same size and spacing as horizontal reinforcing. Dowels shall lap with horizontal reinforcing in each direction.

21. The following minimum concrete cover shall be provided for reinforcement, unless otherwise noted:

A. Earth formed and cast directly against soil - 3"

B. Cast against forms but exposed to earth and weather

a. #6 and Larger - 2"

b. #5 and Smaller - 1 ½"

C. Slabs and walls not exposed to earth or weather - ¾"

D. Others - 2"

22. Reinforcing bars shall have a minimum clear spacing of 4"

23. SPLICE LENGTHS:

Bar Size	Min. Lap
#3	1'-8"
#4	1'-8"
#5	2'-0"
#6	2'-6"
#7	3'-6"
#8	4'-0"
#9	5'-0"
#10	6'-2"

A. When lapping two different size bars, use the lap dimension of the smaller bar or the anchorage dimension of the larger bar, use whichever dimension is larger.

KLINGNER

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REVISION HISTORY

Δ	DESCRIPTION	DATE	APPR
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ISSUED FOR

10/14/2024

BIDDING

STATE OF KENTUCKY

ALAN D. LUKENS

33762

PROFESSIONAL ENGINEER

ACEE'S NEIGHBORHOOD MARKET & DELI

1000 HOLIDAY LANE, FULTON, KY 42041

GOLIGHTLY & LONG PROPERTIES LLC

5820 CAIRO ROAD

PADUCAH, KY 42001

Non-Reduced Sheet Size 24" x 36"

Full sized plans have been prepared using standard scales.  
Reduced sized plans may not conform to standard scales.

DESIGNED	DRAWN
FTI/ADL	NML
FIELD	FIELD BOOK

CHECKED	CHECK DATE
ADL	10/14/2024

SHEET TITLE

STRUCTURAL NOTES

PROJECT NO.  
23-7038

DRAWING ISSUED DATE:  
10/14/2024

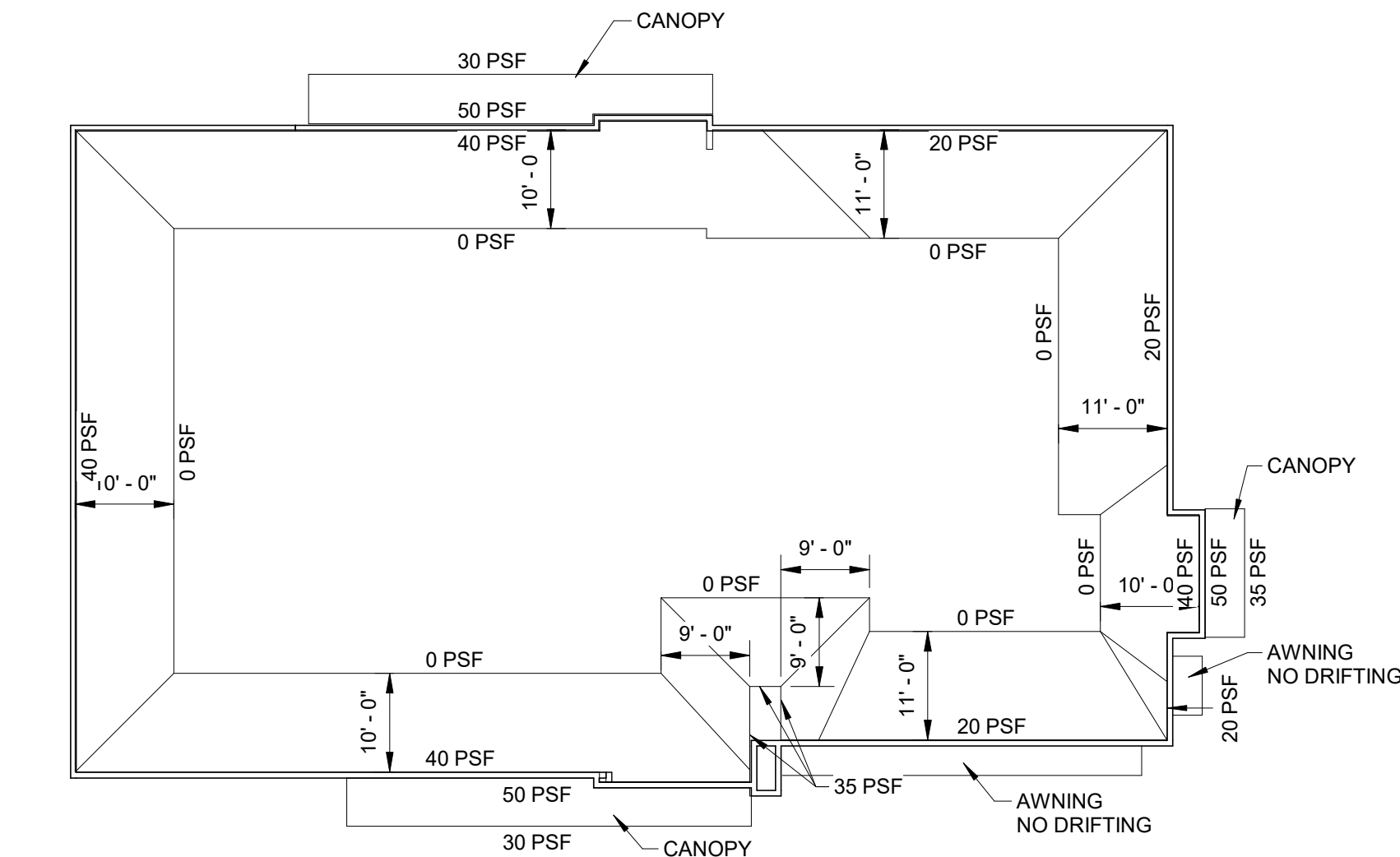
SHEET

S001



WOOD FRAMING:

- All timber shall conform to "National Design Specification for Wood Construction" (ANSI/AWC NDS) for the year referenced in the building code noted.
- Connect all members per IBC 2018 "Fastening Schedule" Table 2304.10.1, unless noted otherwise. All members shall be framed, anchored, tied, and braced so as to develop the strength and rigidity for the purpose which they are used.
- Joists and rafters shall have diagonal cross bridging or full depth blocking at 8'-0" on center maximum.
- All nails shall be "common wire nails" of the following length and diameter:
  - 6d: 2" x 0.113"Ø
  - 8d: 2 1/2" x 0.131"Ø
  - 10d: 3" x 0.148"Ø
  - 12d: 3 1/4" x 0.148"Ø
  - 16d: 3 1/2" x 0.162"Ø
- Collated gun-driven nails shall meet the requirements of ASTM F1667. Nail gun pressures shall be adjusted to install the nail into the substrate without being over-driven. Nails shall not be over-driven.
- All sawn lumber shall be Spruce Pine Fir (SPF) No. 2, or better, with the following NDS minimum reference design values, unless noted otherwise.
  - Fb=875psi
  - Fv=135psi
  - Fc=1150psi
  - Fc⊥=425psi
  - E=1,400,000psi
- Exterior wall studs and bridging shall be #1 syt. Exterior wall stud shall be 2x6 @ 16" cts unless noted otherwise.
- Laminated Veneer Lumber: 1.9E 1 1/4" Microlam LVL's as manufactured by Weyerhaeuser (Truss Joist), 2.0E 1 1/4" LVL's or approved equal with the following minimum design stresses:
  - Fb=260psi
  - Fv=285psi
  - Fc=750psi
  - E=1,900,000psi
- Wood Member Connections – Connect multiple individual framing member that are parallel and in contact thus:
  - 2 Members: 2 rows of 10d nails at 12" o.c.
  - 3 Members: 2 rows of 16d nails at 12" o.c.
  - 4 or 5 Members: 2 rows of 1/2"Ø Simpson SDS Wood Screws or Equal spaced at 12" o.c.
    - Screw length shall match the total thickness of the built-up members.
  - > 5 Members: 3/4"Ø A307 through bolts at mid-depth and spaced at 12" o.c.
- Joist hangers, beam hangers, connections and fasteners shall be by one of the following manufacturers:
  - Simpson Strong-Tie
  - USP Structural Connectors
  - or approved substitution
- Connectors depicted throughout the structural details are based on Simpson Strong-Tie model numbers. Connectors manufactured by other approved companies may be used provided their performance is equal or better. All connectors shall be selected and installed according to manufacturer's written instructions.
- All lumber exposed to the exterior or in direct contact with masonry or concrete shall be pressure treated. Pressure treated members shall be Southern-Pine No. 2. Pressure treatments shall conform to the building code.
- All fasteners and connector in contact with treated lumber or exposed to the exterior shall be hot dip galvanized or have a Z185 galvanized coating.
- Stud Walls:
  - Provide beams, bearing studs and jamb studs for all openings shown on the drawings.
  - Provide a minimum of three studs beneath all beam and header reactions unless otherwise noted.
  - Double stud all corners.
  - At locations where holes greater than 1" are required through the top plates of the structural wall to accommodate items such as plumbing, or electrical conduit, provide studs between the holes and the truss, joist, or TJI located on each side of the holes.
  - Double top plates shall be installed to provide overlapping at corners and at intersections.
  - Double top plates shall be lapped 4'-0" at splices and attached with (12)-10d nails unless noted otherwise.
- Interior non-bearing stud walls shall be stud walls shall be anchored to concrete slabs per the Building code using Simpson PDPAW or Hilti X-CF 72 sill plate fasteners or approved equal.
- Sheathing:
  - Roof sheathing –19/32" plywood or oriented strand board, 40/20 span rating, Exposure 1.
  - Exterior wall sheathing –15/32" structural, 32/16 span rating, Exposure 1.
- Floor sheathing shall be attached as follows: Attach panel edges and at all supports with 10d nails at 6" o.c. Floor sheathing shall be installed with face grain perpendicular to supports and continuous over 2 or more supports. Stagger the 8'-0" panels dimension 4'-0".
- Roof sheathing shall be attached as follows: Provide blocking at ridge and provide ply clips at all other locations. Attach panel edges and at all supports with 10d nails at 6" o.c. Roof sheathing shall be installed with face grain perpendicular to supports and continuous over 2 or more supports. Stagger the 8'-0" panels dimension 4'-0".
- Wall sheathing shall be attached as follows: Provide blocking at all panel edges. Attach panel edges and at all studs and blocking with 8d nails at 6" o.c. Wall sheathing shall be installed with face grain perpendicular to studs and continuous over 2 or more supports. Stagger the 8'-0" panels dimension 4'-0".
- Wood Roof-Truss System:
  - Provide complete wood-truss roof system including prefabricated wood trusses, and other prefabricated components, blocking, bracing, bridging, connectors, plywood roof sheathing, and any other materials of members which may be required for all buildings or portions of building.
  - The arrangement, position, shape, and details of the framing shall accommodate all other work as shown on the drawings. Members shall be spaced as required by design but not more than 24" o.c.
  - The shape of the completed system shall conform to the drawings.
  - Member sizes: All truss top chords shall be 2x4 minimum and bottom chords shall be 2x4 minimum, unless noted otherwise.
  - Coordinated wood -framed roof system work with all other work including MEP work.
  - Design, fabricate, and install all parts of the system to conform to applicable building codes and regulations and to the requirements of the plans and specifications.
  - Design wood trusses for the followings loads and for other criteria noted on the drawings.
    - Minimum top chord live load = 20 psf
    - Top chord snow load = See the design code criteria and calculate the snow loads including drifting and unbalanced loading in accordance with the building code.
    - Top chord dead load = 10 psf
    - Bottom chord dead load = 10 psf
    - Bottom chord collateral dead load = 5psf
    - The top and bottom chords shall be designed for an additional non-concurrent 300lb live load acting at any point along the truss.
    - Wind loads = See the design code criteria and calculate the cladding and component wind loads including uplift on the overhangs and gable end loading. Clearly label loading transferred from the trusses to the structure.
    - Deflection limits = Total load = L/240 and Live/Snow load = L/360.
  - Compression chord braces, other braces, bridging, or any other members or connectors required to assure proper performance of the systems are to be include in the design, fabrications, and erection of the systems.
  - Where bracing is required to reduce the buckling length of individual truss members, design the bracing and connections. Bracing bay be either T-bracing or continuous lateral bracing. Continuous lateral bracing shall be stabilized by diagonal bracing in the plane of the truss member being braced. All bracing and bracing detail shall be shown on the shop drawings.
  - Connect trusses at all bearings as shown on the drawings.
  - All trusses over 60'-0" shall remain attached to the crane until the roof sheathing is attached sufficiently to fully brace the top chord, all pertinent restraint/bracing is installed and the bottom chord temporary bracing is installed. The first five trusses shall be rafted and hoisted in place per "SBCA Research Report SRR No. 1506-08 Long Span Truss Installation". Follow "BCSI Building Component Safety Information Guide to Good Practice for Handling, Installing, & Bracing of Metal Plate Connected Wood Trusses" and applicable BCSI documents.
  - The Contractor shall have a copy of "BCSI Building Component Safety Information Guide to Good Practices for Handling, Installing, & Bracing of Metal Plate Connected Wood Trusses" and applicable BCSI documents at the project site.
  - Submittals:
    - Truss placement drawings shall include the location of all trusses, connection of trusses, location where lateral bracing of truss members is required, details for the installation of lateral bracing and stabilization of lateral bracing, and all other information needed for installation of the wood framed roof system. Provide all of the necessary handling, erection and installation instructions needed for a complete installation.
    - Individual truss drawings shall show the design loads, truss reactions, member forces, truss geometry, limber sizes and grades, metal plate manufacturer, metal plate sizes, locations where compression web bracing is required, and locations where compression chord bracing is required. The "Wood Roof Truss System" shall be designed by a Professional Engineer registered in the State of Iowa. The individual truss drawings shall be signed and sealed by the engineer responsible for the design of the "Wood Roof Truss System".
    - Truss bracing drawing shall include the location of all trusses, locations where lateral bracing of truss members is required, details for installation of lateral bracing and stabilization of lateral bracing, and all other information needed to brace the wood roof truss system. The drawing shall include the design of temporary installation of restraint/bracing and the permanent individual truss member restraint bracing for all trusses. The truss bracing drawing shall be signed and sealed by the engineer responsible for the design of the "Wood Roof Truss System".



1 SNOW DRIFTING PLAN  
1/16" = 1'-0"

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ACEE'S NEIGHBORHOOD MARKET & DELI  
1000 HOLIDAY LANE, FULTON, KY 42041  
GOLIGHTLY & LONG PROPERTIES LLC  
5820 CAIRO ROAD  
PADUCAH, KY 42001

Non-Reduced Sheet Size 24" x 36"

Full sized plans have been prepared using standard scales.  
Reduced sized plans may not conform to standard scales.

DESIGNED	DRAWN
FTPI/ADL	NML
FIELD	FIELD BOOK

CHECKED	CHECK DATE
ADL	10/14/2024

SHEET TITLE

**STRUCTURAL  
NOTES**

PROJECT NO.  
**23-7038**

DRAWING ISSUED DATE:  
**10/14/2024**

SHEET

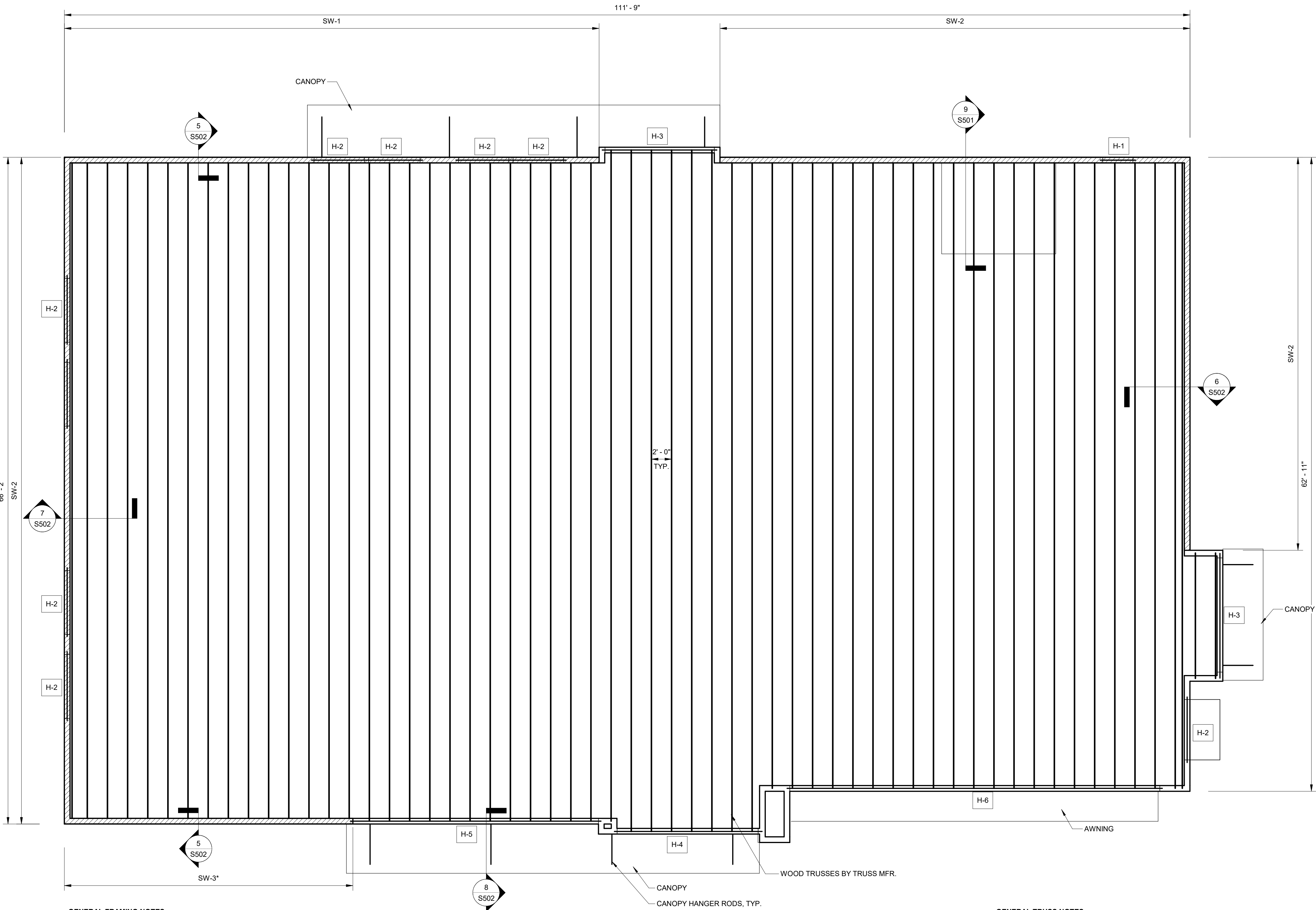
**S002**







10/15/2024 10:21:55 AM  
C:\Users\shueth\Documents\S22 Acee's Fulton, KY 23 7038 nlueth.rvt



**GENERAL FRAMING NOTES:**  
\*PROVIDE (2) 2X6 STUDS & (2) 2X BRIDGING AT SHEATHING EDGES OF SW-3 SHEAR WALL.

**GENERAL TRUSS NOTES:**  
1. TRUSS BEARING IS AT 14'-0" A.F.F.  
2. EAST & WEST PARAPETS ABOVE ROOF ARE FRAMED AS AN EXTENSION OF THE ROOF TRUSSES BY TRUSS MFR.  
3. CONNECT BOTTOM CHORD OF ROOF TRUSSES TO DOUBLE #1 SYP TOP PLATE WITH SIMPSON STRONG TIE H10A HURRICANE TIE. SEE DETAIL 5/S502.  
4. FOR MINIMUM REQUIRED PERMANENT TRUSS BRACING SEE DETAIL 4/S502.

#### FRAMING LEGEND

	SW-x	SHEAR WALL	SEE DETAIL 1/S502	SEE SHEAR WALL & SHEATHING SCHEDULE
	H-x	HEADER	SEE DETAILS 2/S502 & 3/S502	SEE HEADER SCHEDULE SEE ARCH. PLANS FOR ROUGH OPENING SIZES & LOCATIONS

#### SHEAR WALL AND SHEATHING SCHEDULE

**SW-1:**  
15/32" STRUCTURAL I WALL SHEATHING FASTENED WITH 10d NAILS AT 4" O.C. @ PERIMETER, 12" O.C. IN FIELD. INSTALL SIMPSON HTT4 (OR EQUIVALENT) HOLD DOWN @ EACH END OF SHEAR WALL FASTENED TO (2) 2x6 STUDS WITH (18) 16d X 1 1/2" NAILS. FASTEN HOLD DOWN TO FOUNDATION WITH 5/8" Ø A36 THREADED ROD WITH 8" HILTI HY-200 (OR EQUIVALENT) EPOXY EMBEDMENT INTO FOUNDATION CONCRETE WALL. FASTEN SILL PLATE WITH 5/8"Ø ANCHORS AT 2'-8" O.C.

**SW-2:**  
15/32" STRUCTURAL I WALL SHEATHING FASTENED WITH 10d NAILS AT 4" O.C. @ PERIMETER, 12" O.C. IN FIELD. INSTALL SIMPSON HDU14-SDS 2.5 (OR EQUIVALENT) HOLD DOWN @ EACH END OF SHEAR WALL FASTENED TO (2) 4x6 STUDS WITH (35) SD 1/4" X 2 1/2" SCREWS. FASTEN HOLD DOWN TO FOUNDATION WITH 1" Ø A36 THREADED ROD WITH 12" HILTI HY-200 (OR EQUIVALENT) EPOXY EMBEDMENT INTO CONCRETE FOUNDATION. FASTEN SILL PLATE WITH 5/8"Ø ANCHORS AT 2'-0" O.C.

**SW-3:**  
15/32" STRUCTURAL I WALL SHEATHING FASTENED WITH 10d NAILS AT 4" O.C. @ PERIMETER, 12" O.C. IN FIELD. PROVIDE (2) 2x6 STUDS AT SHEATHING EDGES. PROVIDE (2) 2x BRIDGING AT SHEATHING EDGES. INSTALL SIMPSON HDU14-SDS 2.5 (OR EQUIVALENT) HOLD DOWN @ EACH END OF SHEAR WALL, FASTENED TO 4x6 STUD WITH (35) SD 1/4" X 2 1/2" SCREWS. FASTEN HOLD DOWN TO FOUNDATION WITH 1" Ø A36 THREADED ROD WITH 12" HILTI HY-200 (OR EQUIVALENT) EPOXY EMBEDMENT INTO CONCRETE FOUNDATION. FASTEN SILL PLATE WITH 5/8"Ø ANCHORS AT 2'-0" O.C.

**WALL SHEATHING NOT AT SHEAR WALLS:**  
15/32" STRUCTURAL I WALL SHEATHING FASTENED WITH 10d NAILS AT 6" O.C. @ PERIMETER, 12" O.C. IN FIELD. FASTEN SILL PLATE WITH 5/8"Ø ANCHORS AT 4'-0" O.C.

**ROOF SHEATHING:**  
19/32" PLYWOOD OR ORIENTAL STRAND BOARD (OSB), 40/20 SPAN RATING. EXPOSURE 1. ROOF SHEATHING FASTENED WITH 10d NAILS AT 6" O.C. @ PERIMETER, 12" O.C. IN FIELD. PROVIDE 2x BLOCKING AT EDGES OF SHEATHING.

#### HEADER SCHEDULE

MARK	HEADERS	JACK STUDS (S)	KING STUDS (S)
H-1	(3) 2X8 SYP NO.1	(1) 2X6 SYP NO.1	(2) 2X6 SYP NO.1
H-2	(3) 2X12 SYP NO.1	(2) 2X6 SYP NO.1	(2) 2X6 SYP NO.1
H-3	(3) 1 3/4X14 LVL 1.9E (MIN)	(2) 2X6 SYP NO.1	(3) 2X6 SYP NO.1
H-4	(3) 1 3/4X16 LVL 1.9E (MIN)	(2) 2X6 SYP NO.1	(3) 2X6 SYP NO.1
H-5	3 PLY GIRDER TRUSS BY TRUSS MFR	(3) 2X6 SYP NO.1	(3) 2X6 SYP NO.1
H-6	3 PLY GIRDER TRUSS BY TRUSS MFR	(3) 2X6 SYP NO.1	(3) 2X6 SYP NO.1

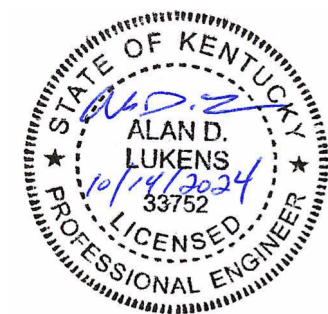
**KLINGNER & ASSOCIATES, P. C.**  
Engineers • Architects • Surveyors  
Carbondale, Illinois  
2150 W. Main St.  
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FIELD: FIELD BOOK

CHECKED: ADL CHECK DATE: 10/14/2024

SHEET TITLE

FRAMING PLAN

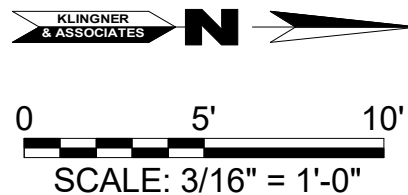
PROJECT NO.  
23-7038

DRAWING ISSUED DATE:  
10/14/2024

SHEET

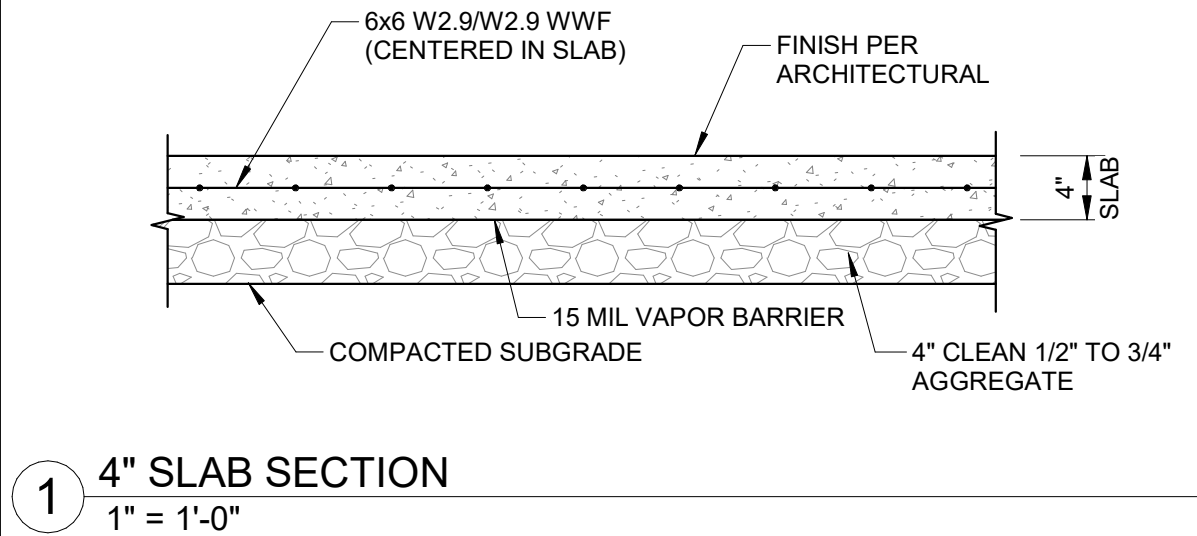
**S201**

**1 ROOF FRAMING PLAN**  
3/16" = 1'-0"

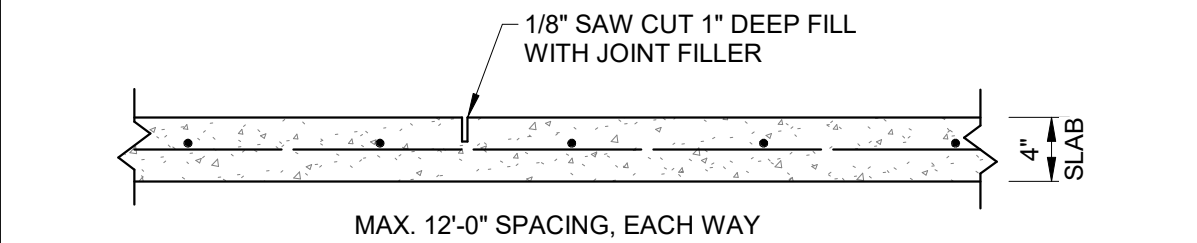




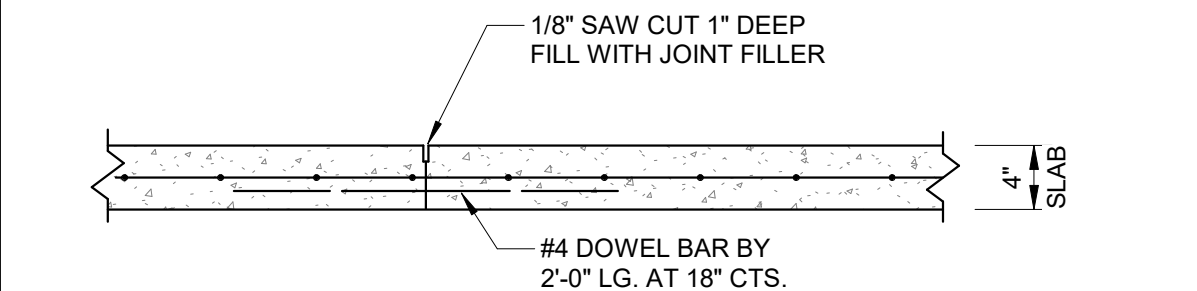
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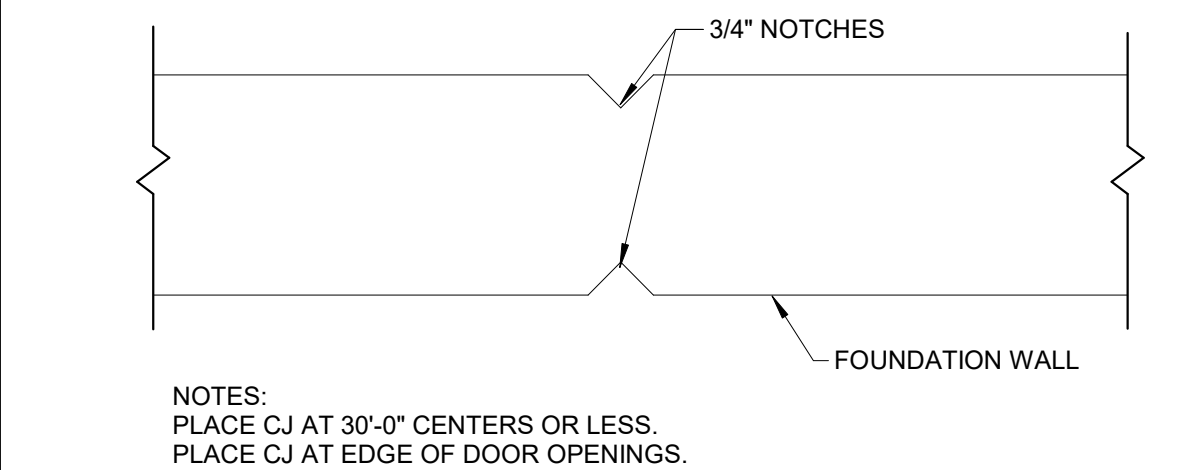
① 4" SLAB SECTION  
1" = 1'-0"



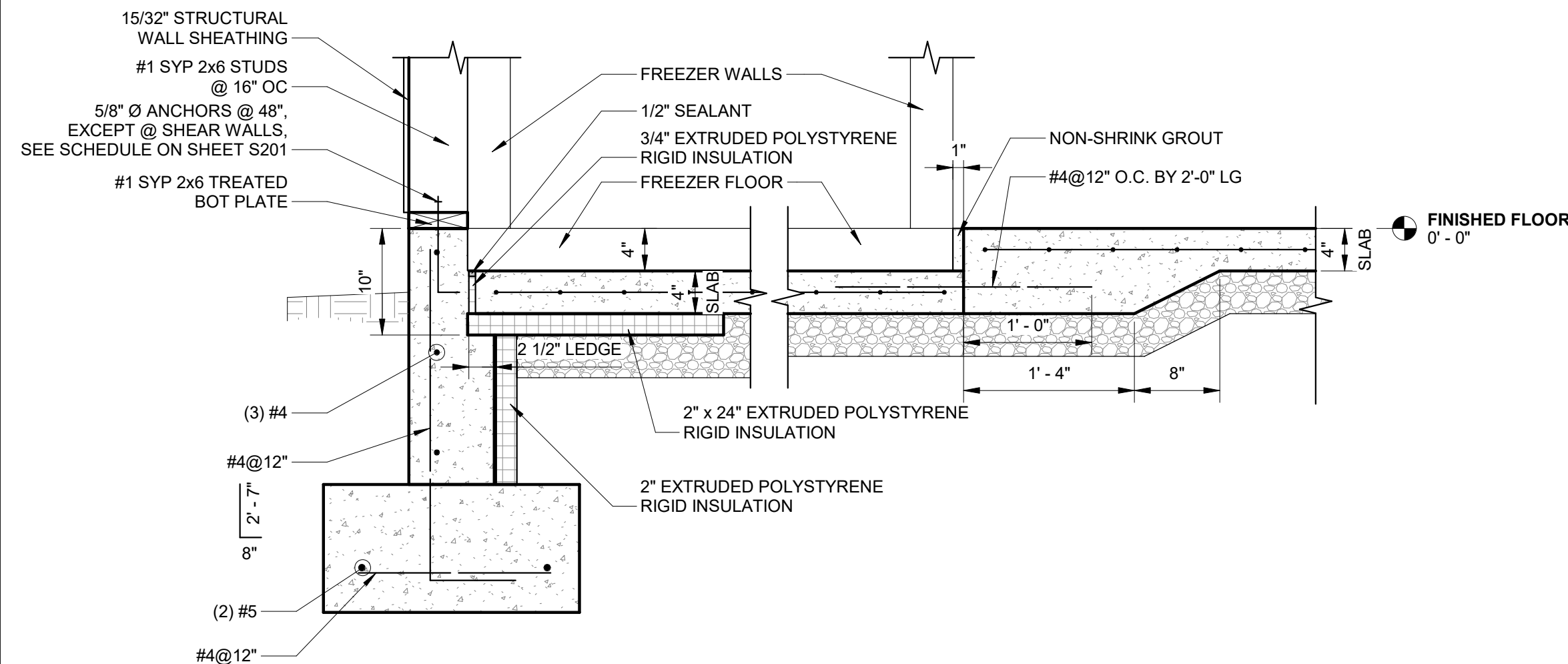
② FLOOR SLAB CONTRACTION JOINT  
1" = 1'-0"



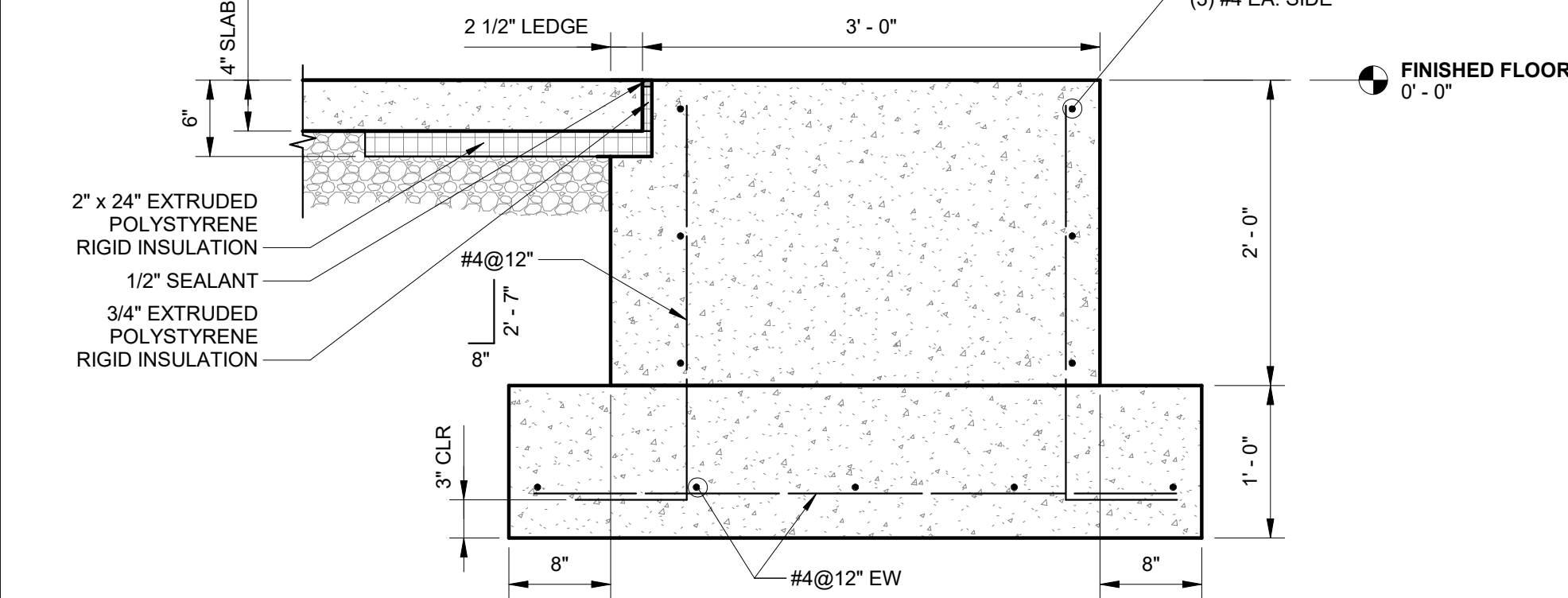
③ FLOOR SLAB CONSTRUCTION JOINT  
1" = 1'-0"



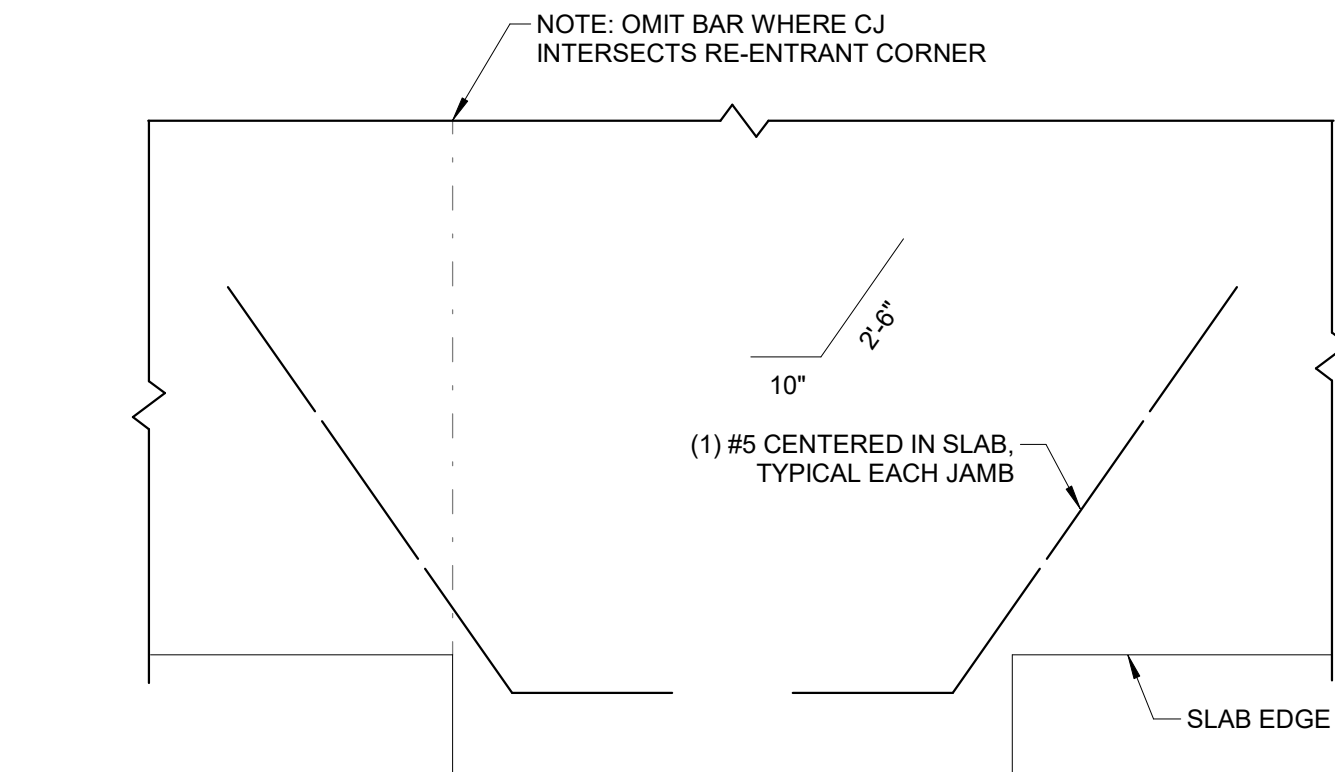
④ CONTROL JOINT DETAIL  
1" = 1'-0"



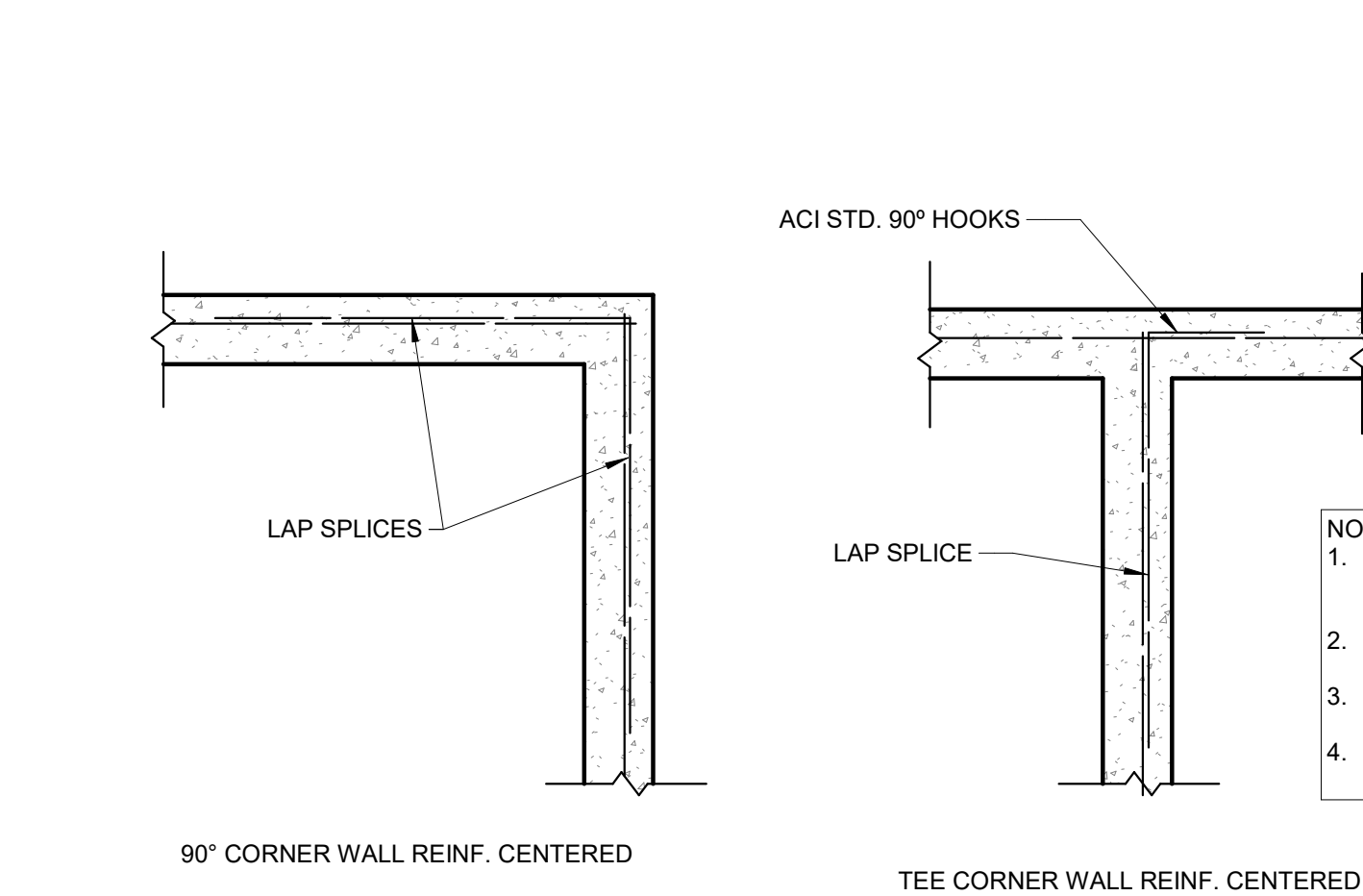
⑨ SECTION AT RECESSED FREEZER FLOOR  
1" = 1'-0"



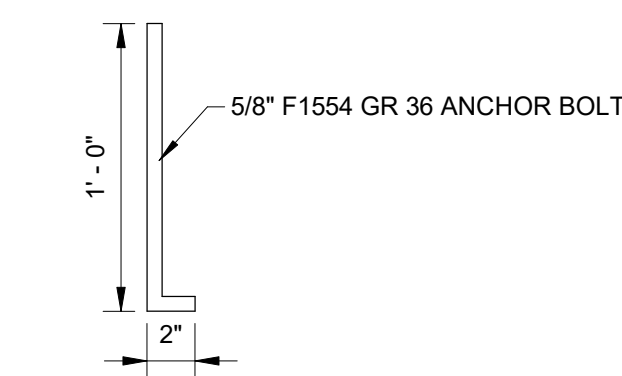
⑫ SECTION  
1" = 1'-0"



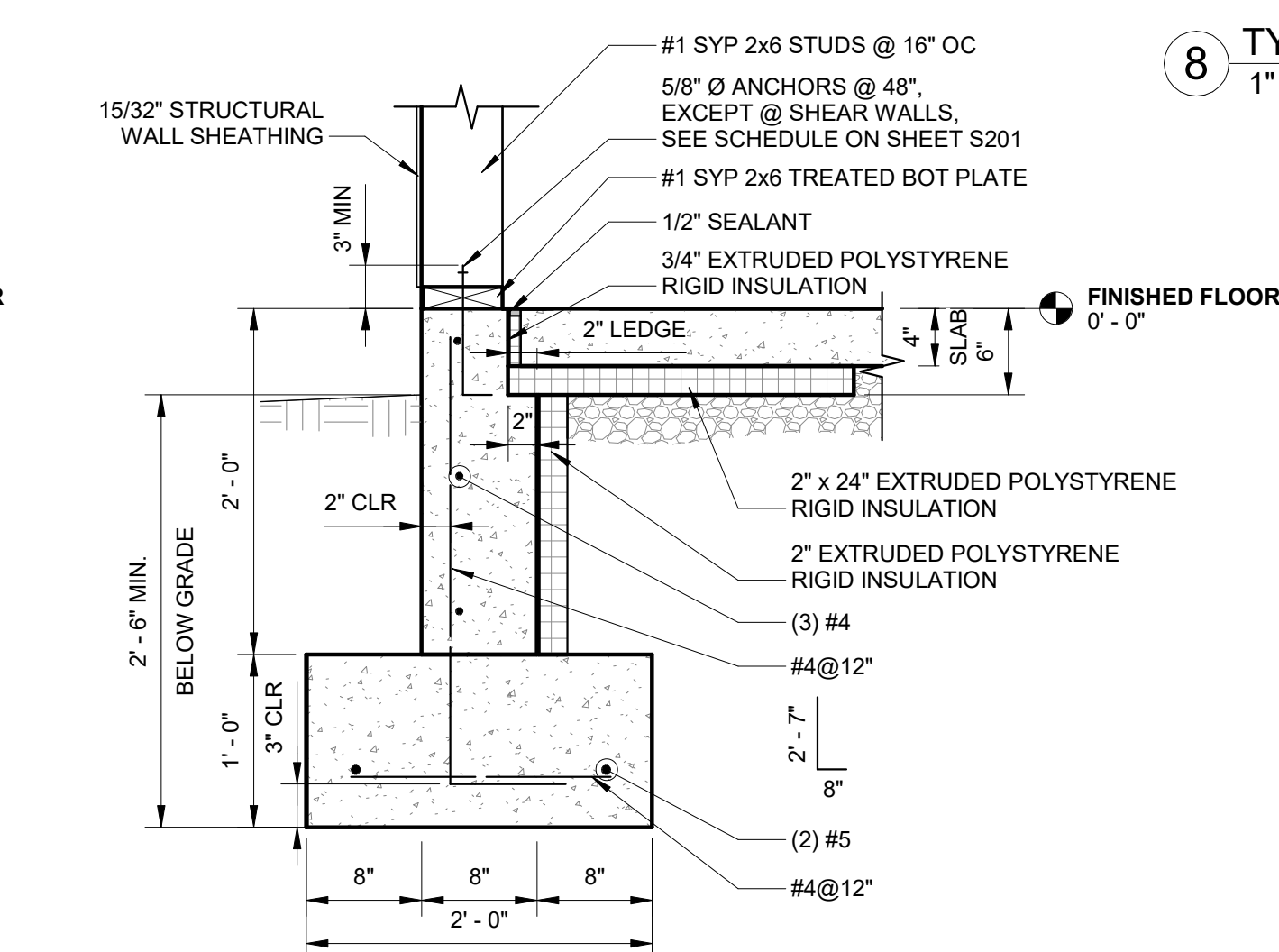
⑤ REINF AT DOOR OPENING  
1" = 1'-0"



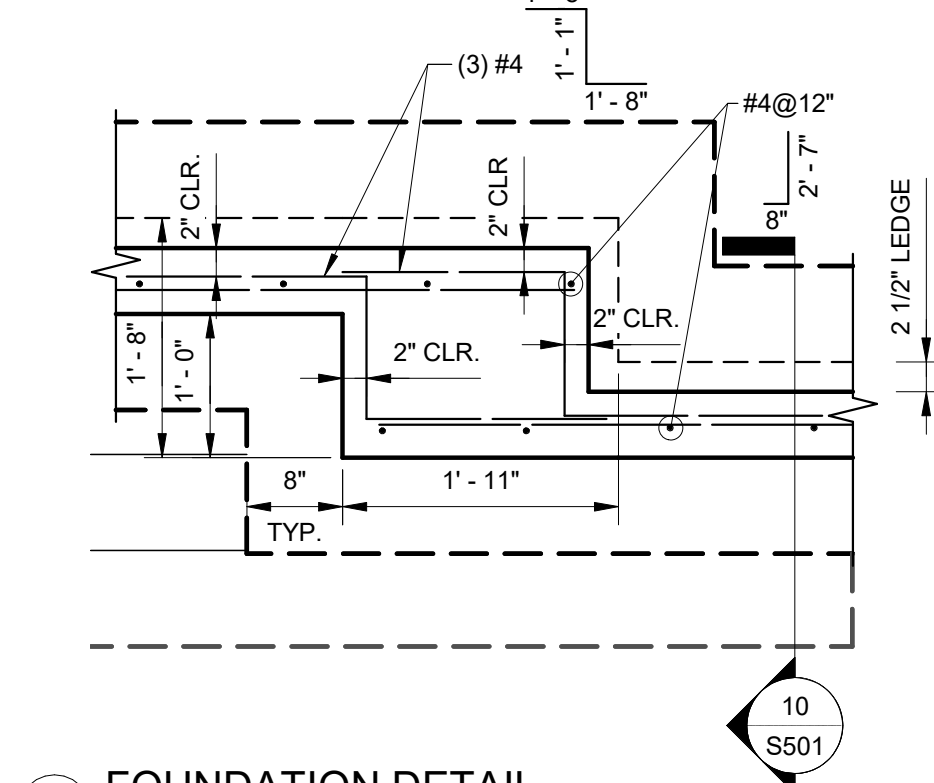
⑥ CORNER REINFORCING DETAILS  
3/4" = 1'-0"



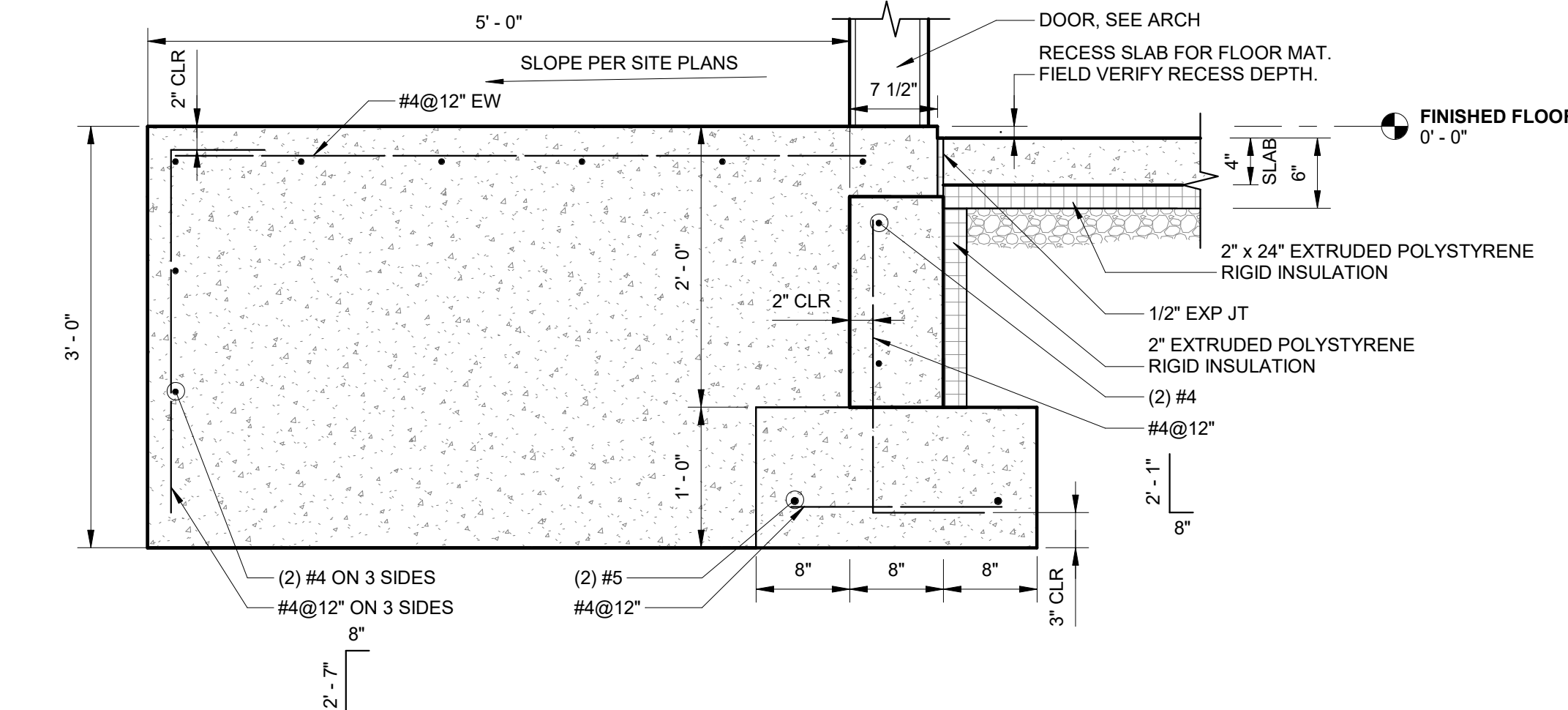
⑮ 5/8" ANCHOR DETAIL  
1 1/2" = 1'-0"



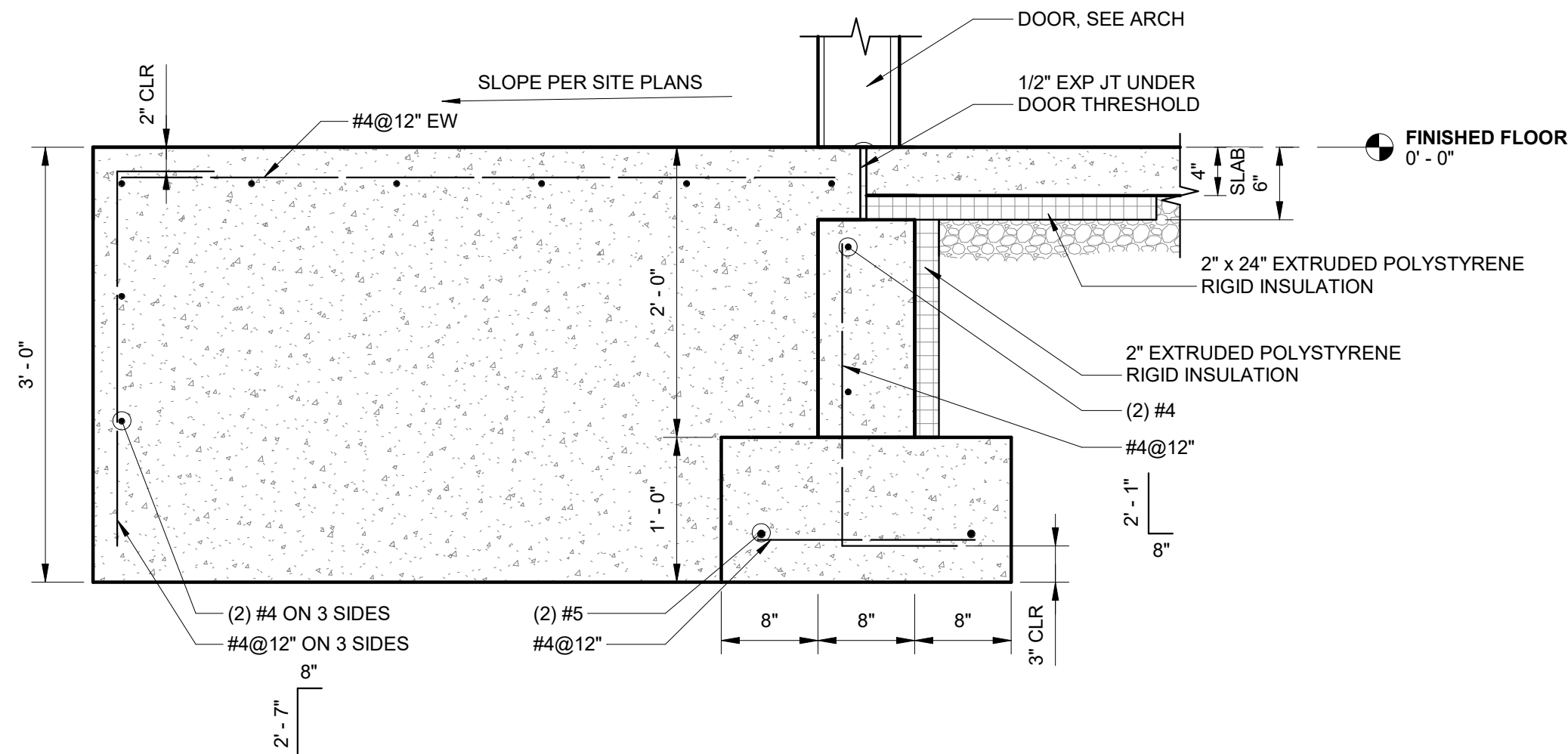
⑩ TYPICAL FOUNDATION WALL  
1" = 1'-0"



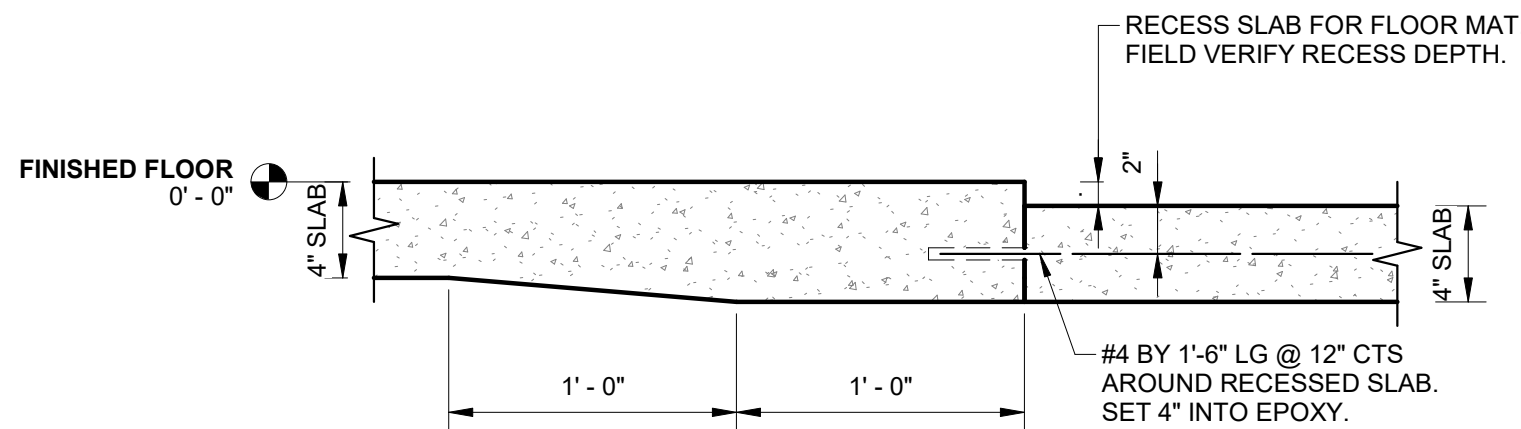
⑬ FOUNDATION DETAIL  
3/4" = 1'-0"



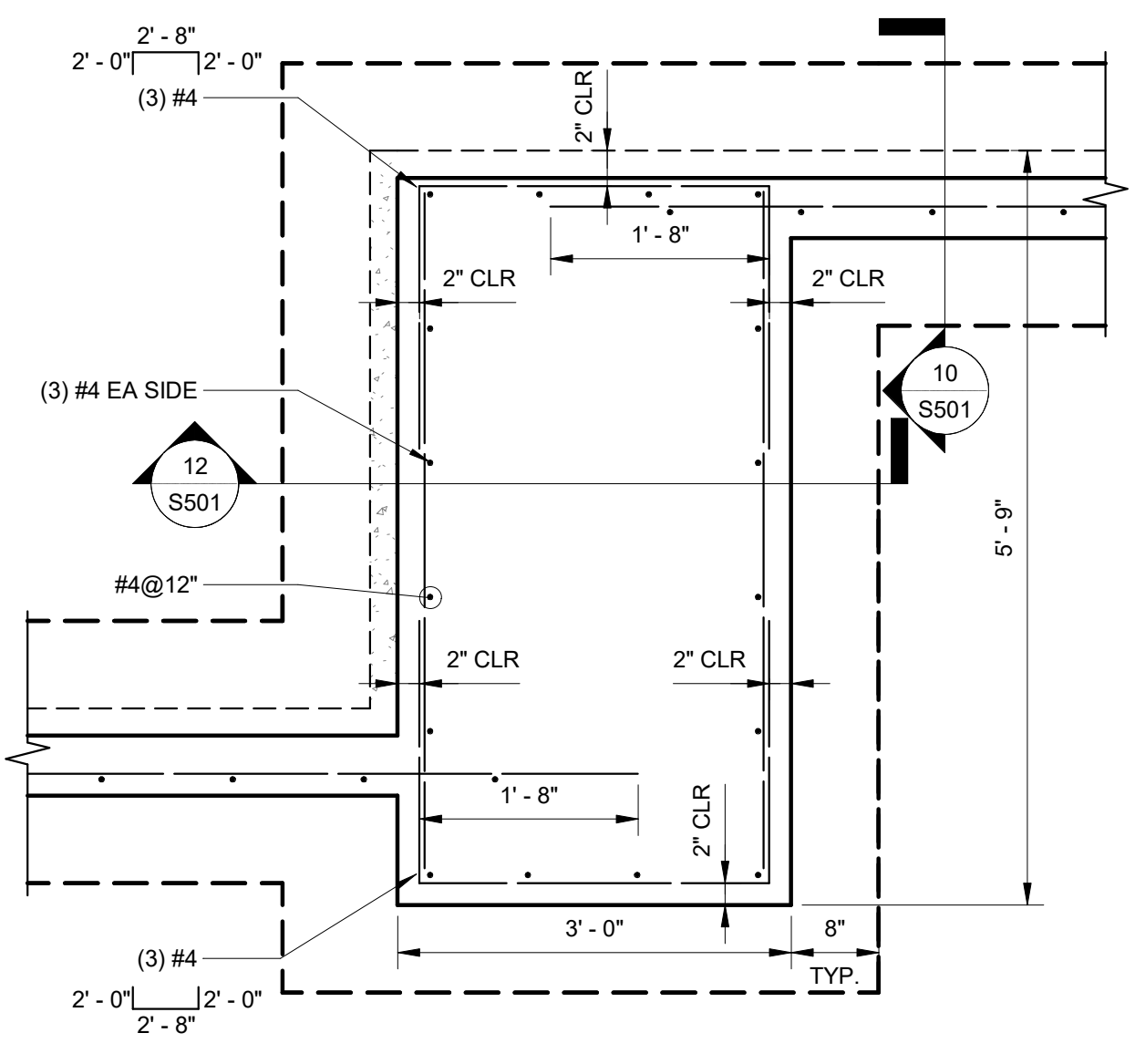
⑦ TYPICAL STOOP SECTION AT RECESSED FLOOR  
1" = 1'-0"



⑧ TYPICAL STOOP SECTION  
1" = 1'-0"

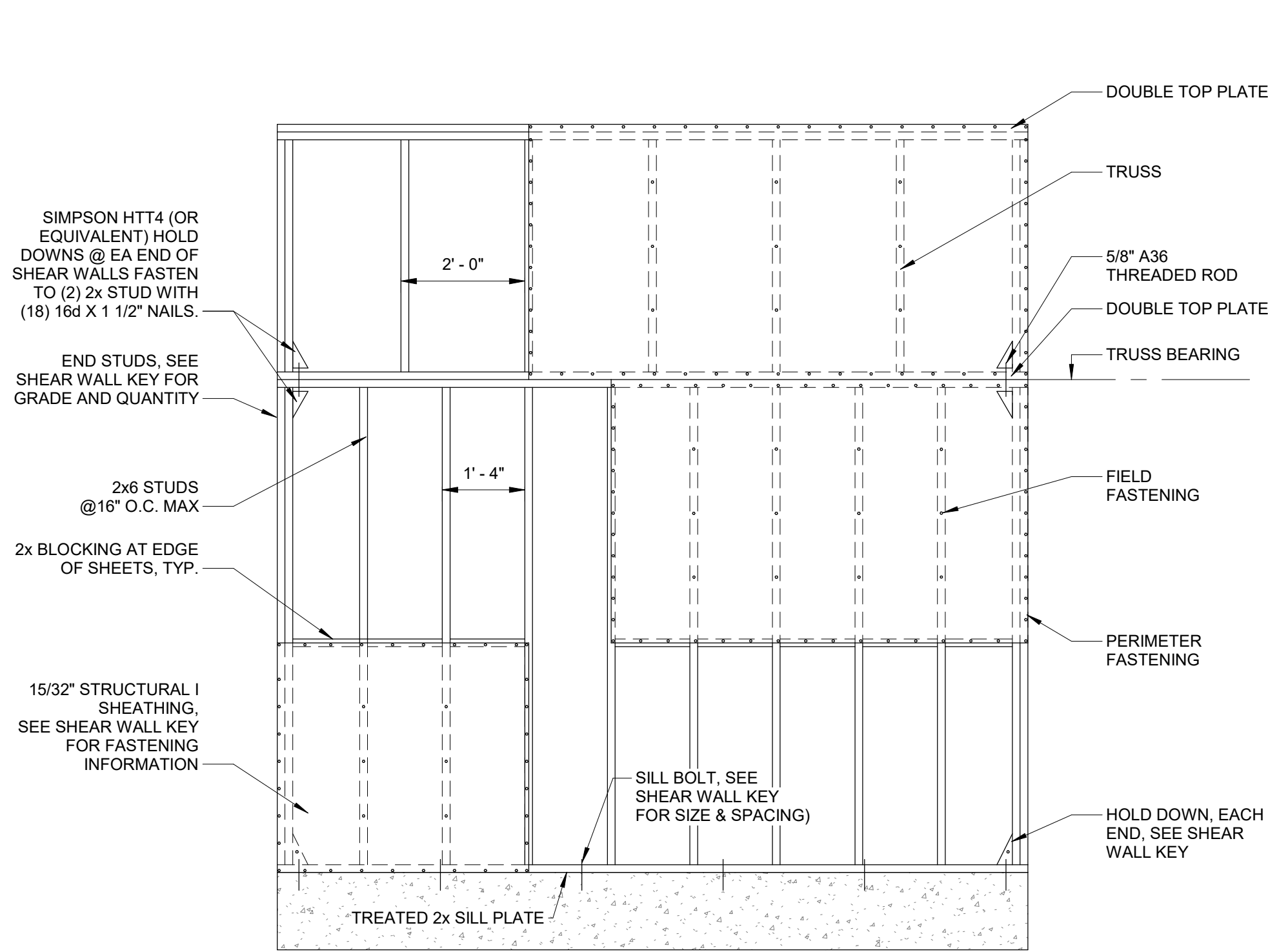


⑪ RECESSED FLOOR SECTION  
1 1/2" = 1'-0"

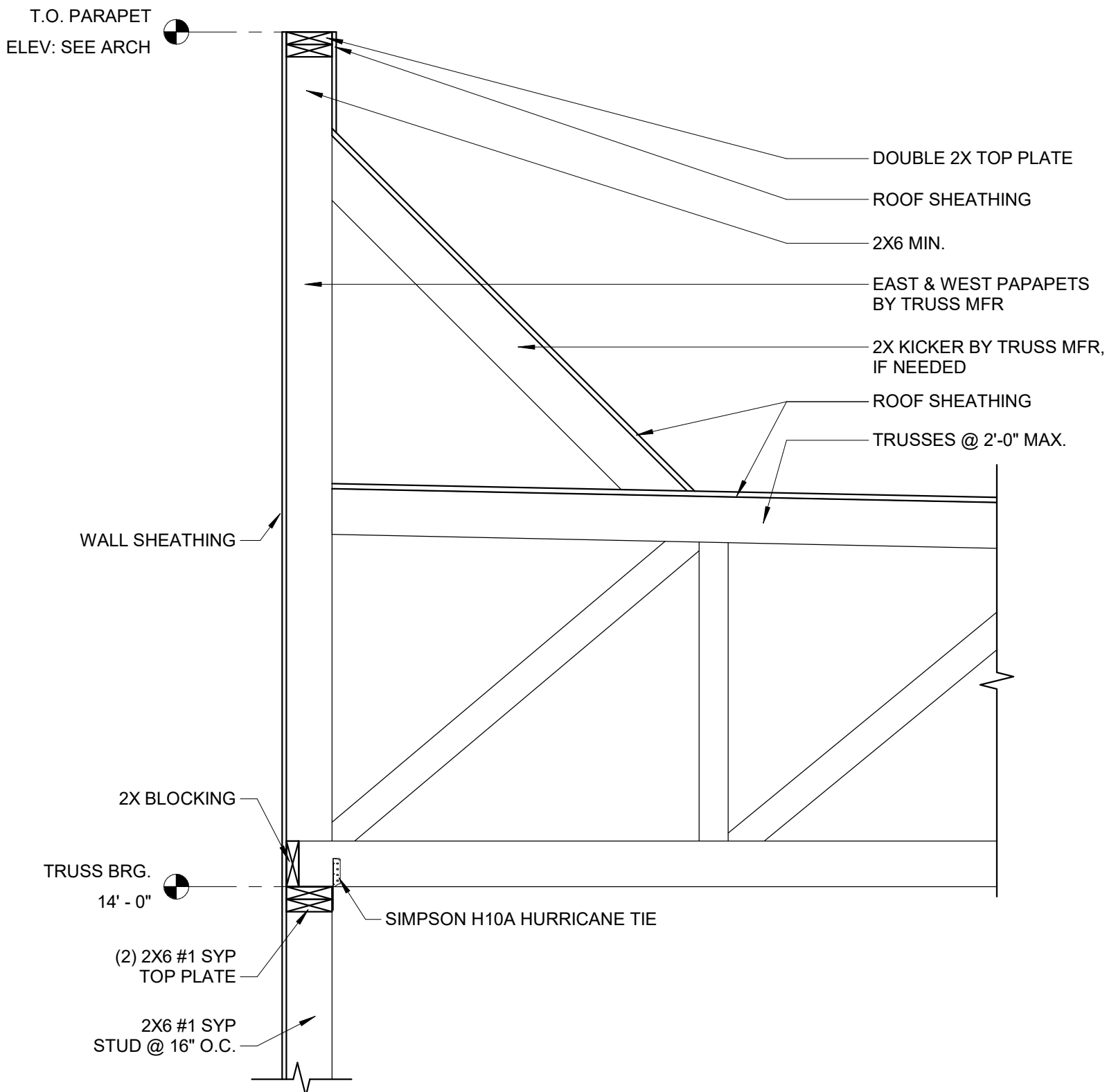


⑭ FOUNDATION DETAIL  
3/4" = 1'-0"

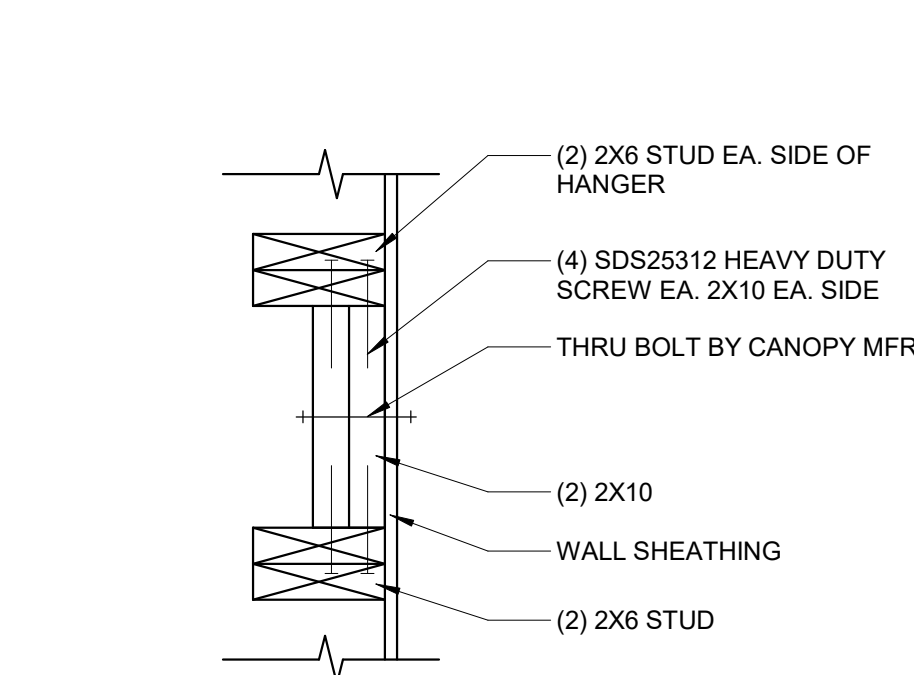




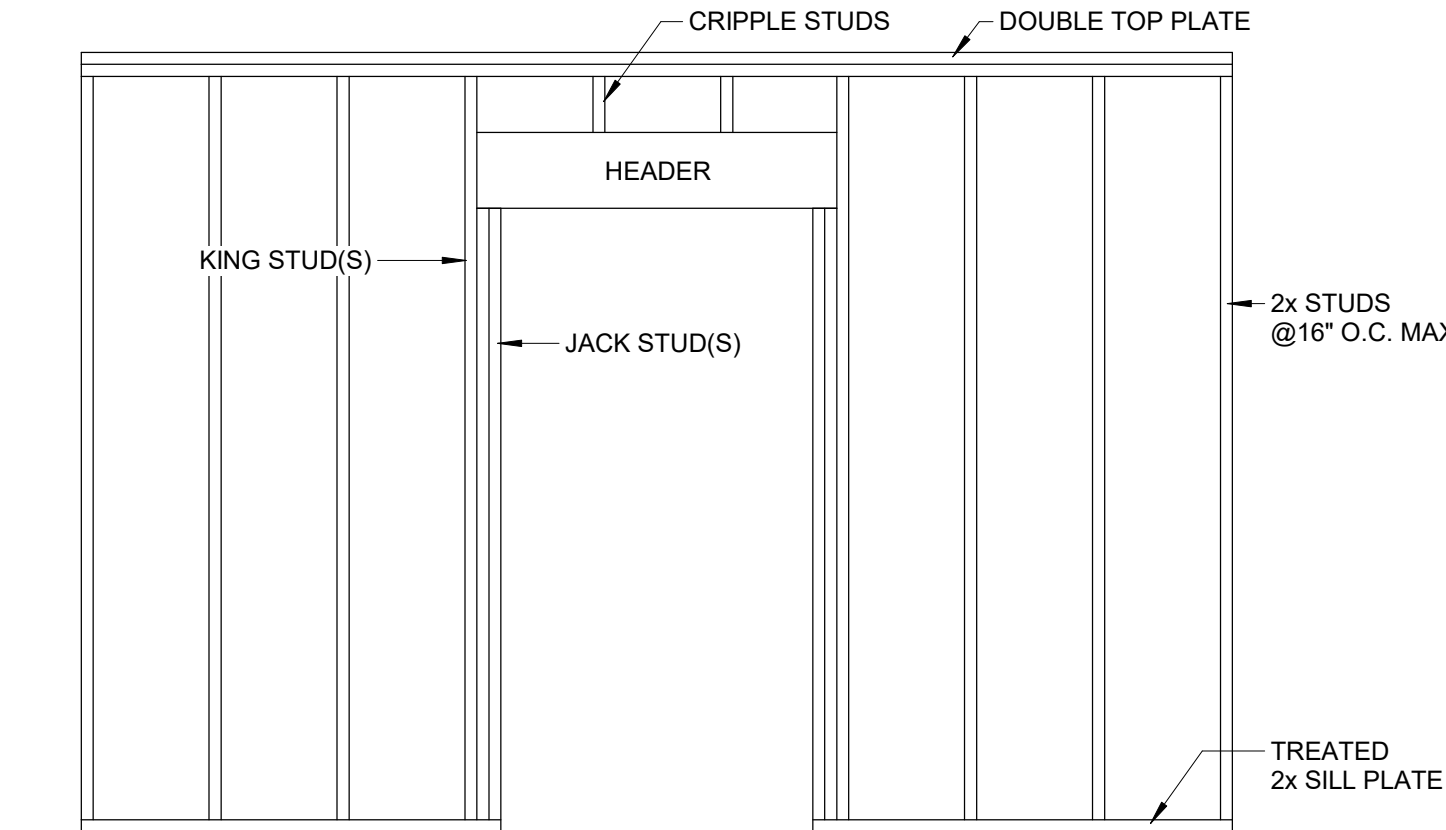
1 SINGLE STORY SHEAR WALL ELEVATION: SW-1, SW-2, & SW-3  
NTS



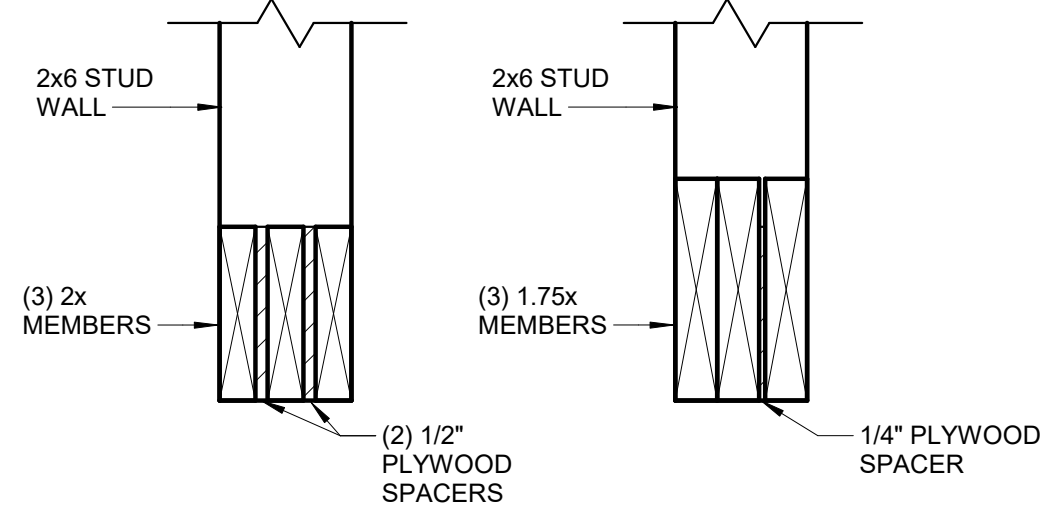
5 FRAMING AT MANUFACTURED PARAPETS  
3/4" = 1'-0"



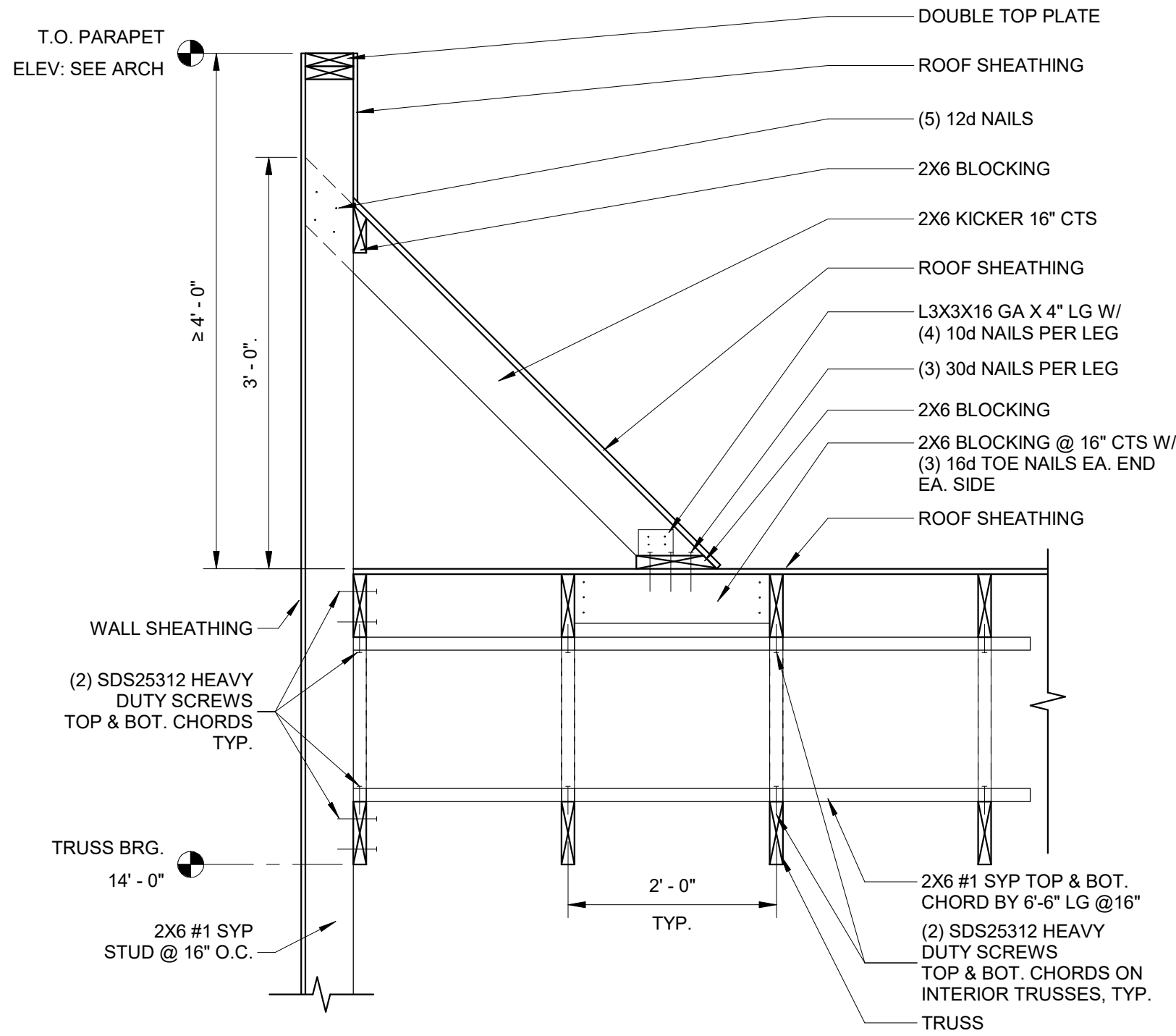
9 DETAIL  
1 1/2" = 1'-0"



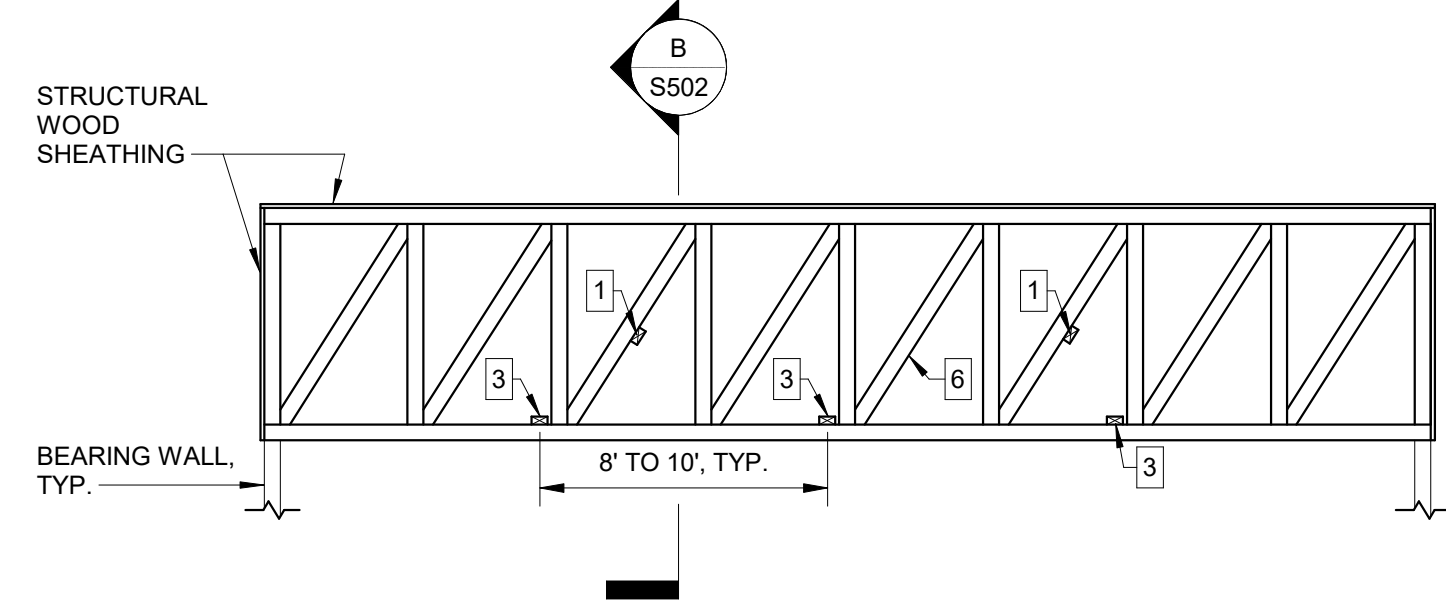
2 TIMBER HEADER FRAMING ELEVATION  
NTS



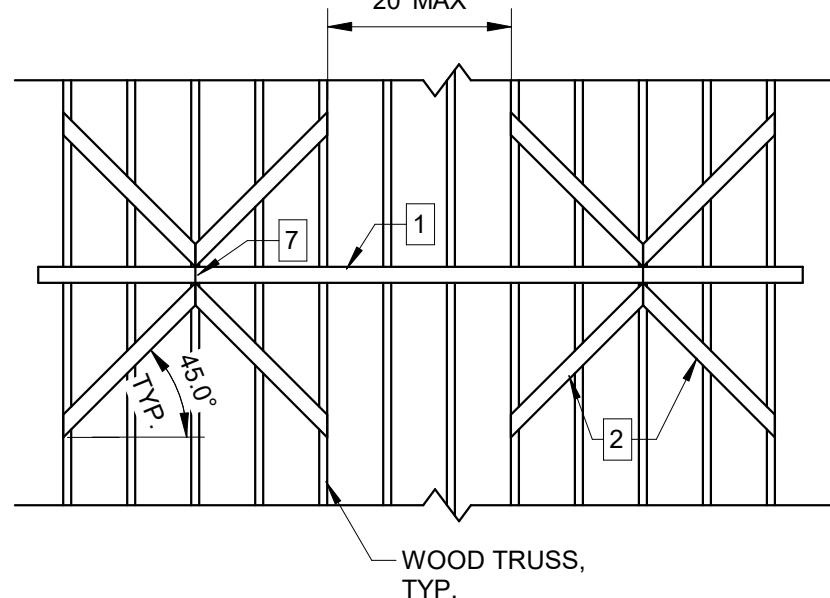
3 TIMBER HEADERS DETAIL  
1 1/2" = 1'-0"



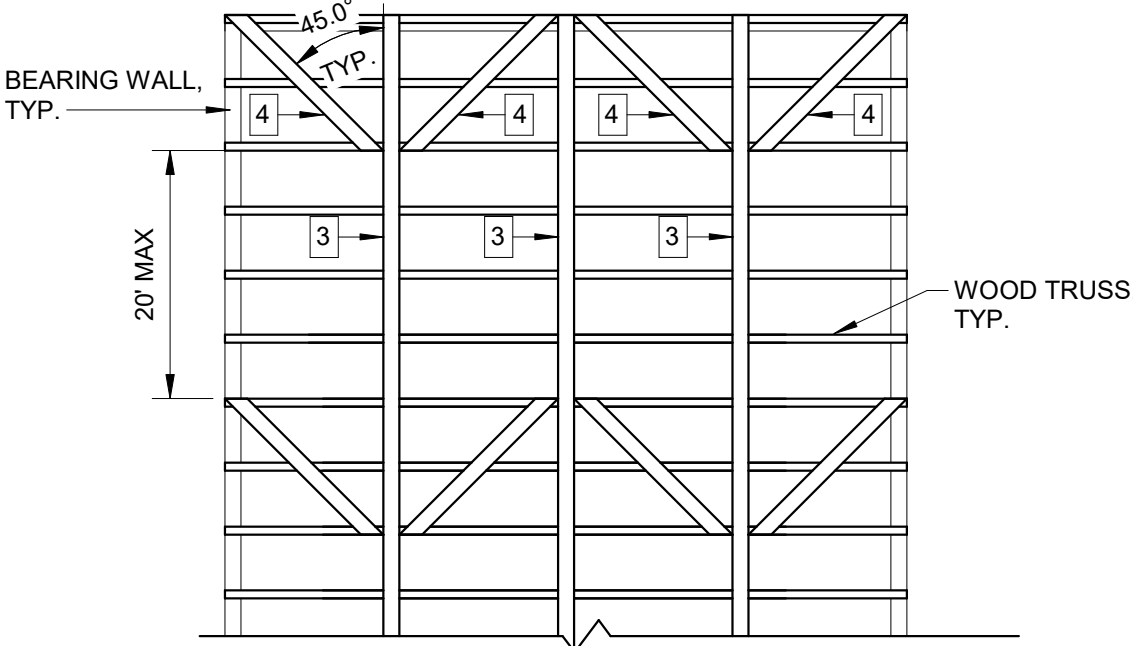
6 FRAMING AT ≥ 4'-0" PARAPETS  
3/4" = 1'-0"



A TRUSS DETAIL



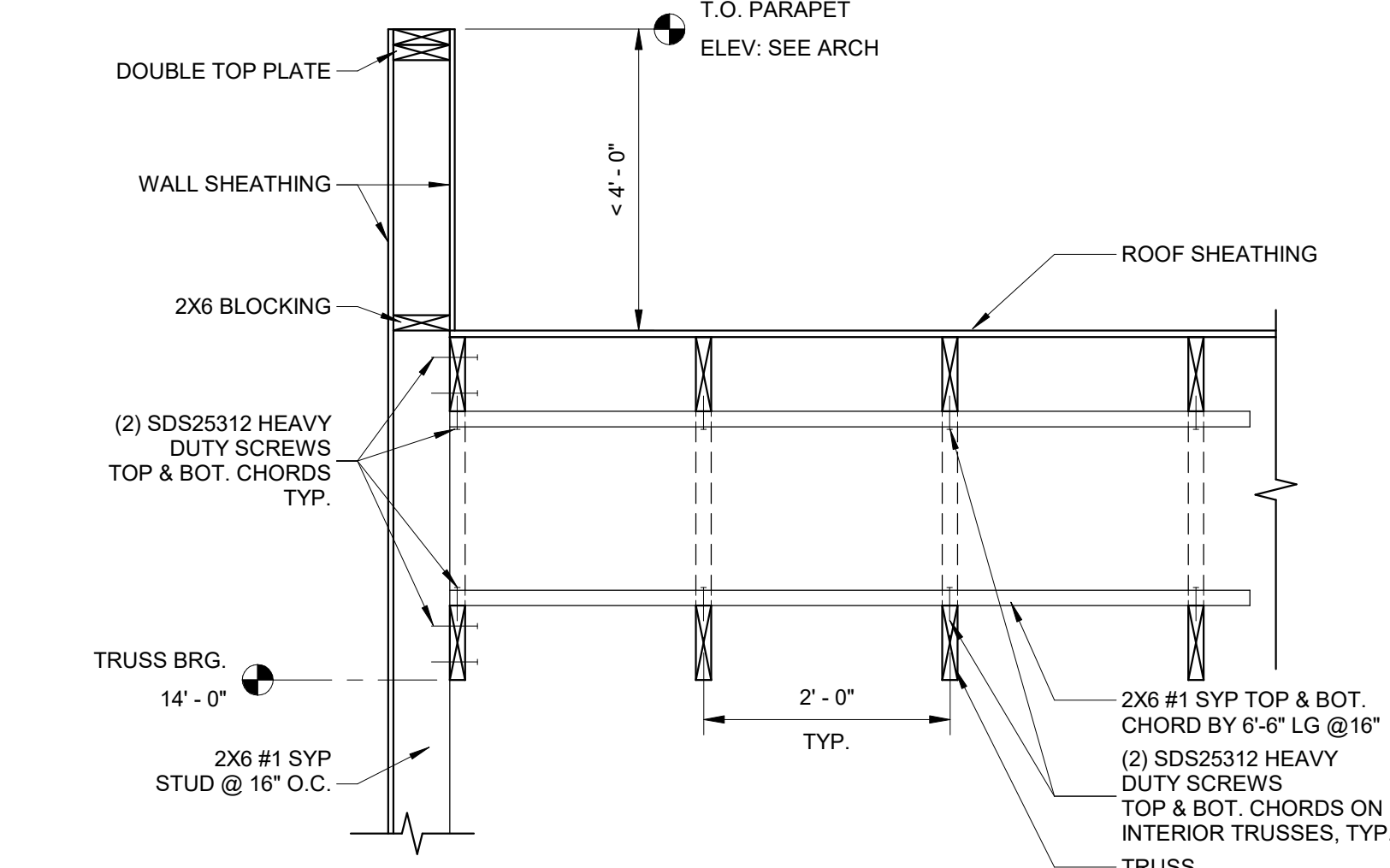
B WEB BRACING



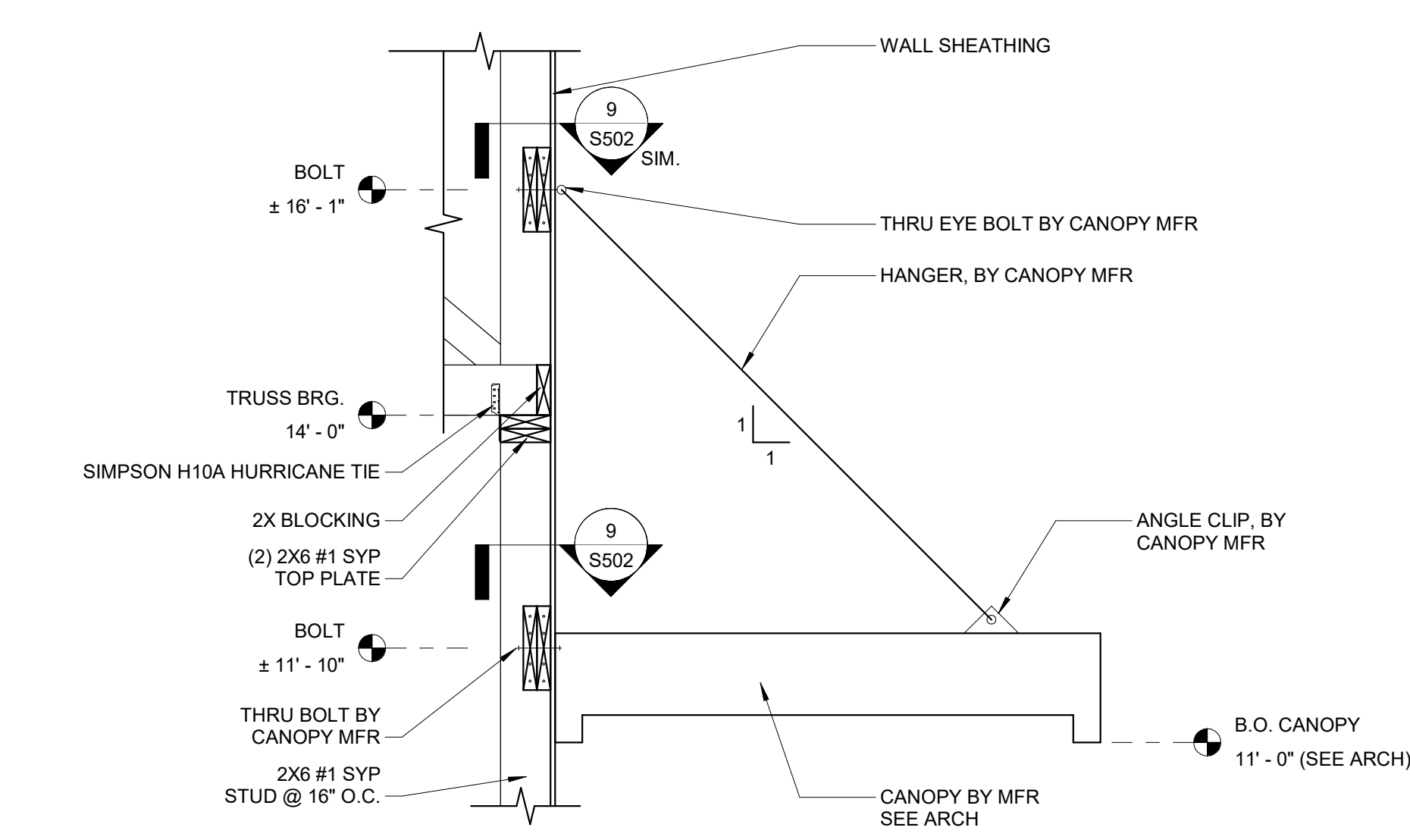
C BOTTOM CHORD BRACING

- NOTES:
- CONTINUOUS LATERAL WEB BRACING. PROVIDE AS PER NOTE 5 AND TRUSS DESIGN SHOP DRAWINGS.
  - DIAGONAL WEB BRACING ON BOTH SIDES OF WEB AS SHOWN TO FORM X-BRACE. REQUIRED AT THE SPACING SHOWN FOR ALL WEBS WITH CONTINUOUS LATERAL WEB BRACING.
  - CONTINUOUS LATERAL BOTTOM CHORD BRACING, SPACED 8'-0" TO 10'-0" AND LOCATED AT OR NEAR PANEL POINTS.
  - DIAGONAL BOTTOM CHORD BRACING, LOCATED AT ENDS AND AT THE SPACING SHOWN.
  - DIAGONAL AND LATERAL WEB BRACING SHALL BE AS FOLLOWS:  
A. SPAN ≥ 40'-0": BRACING ON A MINIMUM OF 4 WEBS  
B. SPAN < 40'-0": BRACING ON A MINIMUM OF 2 WEBS
  - TRUSS CONFIGURATION WILL VARY FROM THAT SHOWN. SEE TRUSS DETAILS.
  - SPLICE CONTINUOUS LATERAL WEB BRACING AT INTERSECTION WITH DIAGONAL WEB BRACING.
  - ALL BRACING SHALL BE A MINIMUM OF 2x4 SPF NO. 2.

4 MINIMUM REQUIRED PERMANENT TRUSS BRACING DETAILS  
NTS



7 FRAMING AT < 4'-0" PARAPETS  
3/4" = 1'-0"



8 SUPPORT FRAMING AT CANOPIES  
3/4" = 1'-0"

0 1' 2'  
SCALE: 3/4" = 1'-0"  
0 3' 6' 1'  
SCALE: 1 1/2" = 1'-0"

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Carbondale, Illinois  
2150 W. Main St.  
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STRUCTURAL  
FRAMING DETAILS

PROJECT NO.  
23-7038  
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10/14/2024  
SHEET  
S502



Symbols Key

Rough Lumber

Finish Lumber

Structural Steel

Brick

Concrete Masonry Unit

Poured-In-Place Concrete

Gravel

Window Glazing

Batt Insulation

Rigid Insulation

Plywood

Sand/Mortar/Plaster

Earth

New Construction

Existing Construction

Varies Insulation Type - Refer Wall Details

Path of Travel

Direction of Egress

Exit Access Travel Distance (EATD)

Elevation Marker

Description

Indicates Plan Elevation

Indicated North American Vertical Datum of 1988

Section

Section Number

Sheet Number

Detail Number

Detail

Sheet Number

Elevation Number

Exterior Elevation

Sheet Number

Elevation View

Elevation Number

Interior Elevation

Sheet Number

Elevation View

Elevation Number

Dimension

X'-X"

Revision

Indicates Sheet Revision

Grid Line

A

1

Window Identification

1

Door Identification

101

Wall Type

A1

Equipment Tag

1

Floor Plan Keynote

1

Roof Keynote

1

Demolition Keynote

1

Elevation/Misc. Tag

1

View Callout

Detail Number

Sheet Number

Elevation Datum

+ 8'-0"

Life Safety Tag

Room Name

Room Number

Area (Sq Ft)

Total Calculated Occupants

Space Function (Re: Life Safety Plan)

Centerline

Property Line

Security Mesh

1-Hour Fire-Rate

2-Hour Fire-Rate

Demolition Line

Existing Line

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G202	Accessibilty Notes & Details
G203	Ceiling Details
A101	Life Safety Plan
A102	Floor Plan
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A704	Interior Elevations
A705	Interior Elevations
A706	Interior Finish Schedule
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Q102	Equipment Schedule

Building Codes:

- Local Adopted County Codes:
- Kentucky Building Code; 2018 Ed.
  - International Mechanical Code (IMC); 2015 Ed.
  - International Energy Conservation Code (IECC); 2012 Ed.
  - International Fire Code; 2012 Ed.
  - Kentucky Plumbing Code; 815 KAR 20
  - National Fuel Gas Code; NFPA 54 2012 Ed.
  - National Electrical Code; NFPA 70 2017 Ed.

- Federal Codes:
- 2010 ADA

Building Code Information

Use & Occupancy Classification [Sec. 304]:	Mercantile 'M'
Type of Construction [Table 601]:	Type 5B
Allowable Height & Area [Tables 504.3, 504.4, 506.2]:	40' 1S; 9,000 SF
Actual Height & Area (Gross):	25'-6" 1S; 7,422 SF
Automatic Sprinkler System [Sec. 903]:	No
Occupancy Load [Sec. 1004]	97 (see Life Safety for calcs.)
Min. Egress Exits [Sec. 1006] (Per Occupancy 1-500)	2 Required
Exit & Egress Access Doorway Separation [1007.1.1]	64'-3" (Min. 1/2 Overall Diagonal Dim.)
Max. Common Path of Egress Travel (CPET) [Table 1006.2.1]	75'-0"
Max. Exit Access Travel Distance (EATD) [Table 1017.2]	200' (NS)
Egress Exits Provided	4 Provided

Plumbing Code Information

Minimum Number of Plumbing Fixture [Sec. 3 Fixture Requirements]		
• Water Closets	1 per 150 (Men); 1 per 100 (women)	
• Lavs	1 per 200 (Men); 1 per 200 (women)	
• Drinking Fountain	1 per 500	
• Service/Mop Sink	1 [Sec. 1(9)]	
• Unisex Allowed	Yes [Sec. 3(6)(b)]	
• Public Restrooms Required	Yes [Sec. 3]	
Fixture Count Required/Provided		
• Water Closets	Required 1	Provided 3 Men; 5 Women
• Urinals	0	3
• Lavatories	1	3 Men; 3 Women
• Drinking fountains	1	0 (1 ADA & 1 standard)
• Service/Mop Sink	1	1

General Notes:

- A. Contractors shall familiarize themselves with the project site and plans prior bidding and shall notify the Design Builder (618-687-3900) of any discrepancies in a formal Request for Information (RFI).
- B. The general contractor shall be responsible to coordinate with all subcontractors. This does not relieve the subcontractors from coordinating with the General Contractor.
- C. The general contractor and subcontractors shall both be responsible to cross-reference and coordinate work between all trades and drawing sheets.
- D. All work shall comply with local, state, and federal codes & laws.
- E. At the completion of the project the contractor shall turn in one full size set of "As-Built" drawings. "As-Builts" shall record all field changes.
- F. At the completion of the project the contractor shall turn in all Warranties & O&M's.
- G. All materials/equipment shall be new and free of all hazardous materials.
- H. Contractors shall submit shop drawings/product data and physical colors samples as requested.
- I. The owner shall be responsible for all utilities during construction.
- J. Owner has first salvage rights to all removed materials.



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REVISION HISTORY			
NO.	DESCRIPTION	DATE	APPR.

ISSUED FOR			
Construction Documents			

CHAD L. HANSON

REGISTERED

NO. 2891

COMMONWEALTH OF KENTUCKY

ARCHITECT

Acee's Truck Stop	
Fulton, Kentucky	

Non-Reduced Sheet Size: 24" x 36"	
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.	
DESIGNED	DRAWN
FIELD	Author
CHECKED	FIELD BOOK
CHECKED	CHECK DATE

SHEET TITLE	
Cover	
PROJECT NO. 24007	
DRAWING ISSUED DATE: 10/09/24	
SHEET	
G101	



SECTION 03 0516  
UNDERSLAB VAPOR BARRIER - STEGO

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Submit manufacturers' data on manufactured products.

B. Samples: Submit samples of underslab vapor barrier to be used.

C. Manufacturer's Installation Instructions: Indicate installation procedures and interface required with adjacent construction.

**PART 2 PRODUCTS**

**2.01 MATERIALS**

A. Underslab Vapor Barrier:

1. Water Vapor Permeance: Not more than 0.010 perms (0.6 ng/(s m2 Pa)), maximum.

2. Thickness: 15 mils (0.4 mm).

3. Basis of Design:

a. Stego Industries LLC; Stego Wrap Vapor Barrier (15-mil); www.stegoindustries.com

B. Accessory Products: Vapor barrier manufacturer's recommended tape, adhesive, mastic, etc., for sealing seams and penetrations in vapor barrier.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

A. Install vapor barrier in accordance with manufacturer's instructions and ASTM E1643.

B. Install vapor barrier under interior slabs on grade; lap sheet over footings and seal to foundation walls.

SECTION 03 3000  
CAST-IN-PLACE CONCRETE

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions **as outlined in structural drawings**.

B. Mix Design: Submit proposed concrete mix design **as outlined in structural drawings**.

C. Samples: Submit samples of underslab vapor retarder to be used.

**PART 2 PRODUCTS**

**2.01 REINFORCEMENT MATERIALS**

A. Comply with requirements on structural drawings

**2.02 CONCRETE MATERIALS**

A. Cement: Comply with requiremnts on structural drawings.

**2.03 ADMIXTURES**

A. Comply with requirements on structural drawings.

**2.04 ACCESSORY MATERIALS**

A. Underslab Vapor Retarder:

1. Accessory Products: Vapor retarder manufacturer's recommended tape, adhesive, mastic, prefabricated boots, etc., for sealing seams and penetrations.

2. Products:

a. W. R. Meadows, Inc; PERMINATOR Class A - 15 mils (0.38 mm); www.wrmeadows.com.

**2.05 BONDING AND JOINTING PRODUCTS**

A. Dowel Sleeves: Plastic sleeve for smooth, round, steel load-transfer dowels.

**2.06 CONCRETE MIX DESIGN**

A. Comply with requirments on structural sheets.

**PART 3 EXECUTION**

**3.01 PREPARATION**

A. In locations where new concrete is doweled to existing work, drill holes in existing concrete, insert steel dowels and pack solid with non-shrink grout.

B. Interior Slabs on Grade: Install vapor retarder under interior slabs on grade. Comply with ASTM E1643. Lap joints minimum 6 inches (150 mm). Seal joints, seams and penetrations watertight with manufacturer's recommended products and follow manufacturer's written instructions. Repair damaged vapor retarder before covering.

1. Vapor Retarder Over Granular Fill: Install compactible granular fill before placing vapor retarder as indicated on drawings. Do not use sand.

**3.02 PLACING CONCRETE**

A. Place concrete in accordance with ACI PRC-304.

B. Place concrete for floor slabs in accordance with ACI PRC-302.1.

C. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.

D. Finish floors level and flat, unless otherwise indicated, within the tolerances specified below.

**3.03 FLOOR FLATNESS AND LEVELNESS TOLERANCES**

A. Correct defects by grinding or by removal and replacement of the defective work. Areas requiring corrective work will be identified. Re-measure corrected areas by the same process.

**3.04 CONCRETE FINISHING**

A. Concrete Slabs: Finish to requirements of ACI PRC-302.1 and as follows:

1. Surfaces to Receive Thick Floor Coverings: "Wood float" as described in ACI PRC-302.1; thick floor coverings include quarry tile, ceramic tile, and Portland cement terrazzo with full bed setting system.

2. Surfaces to Receive Thin Floor Coverings: "Steel trowel" as described in ACI PRC-302.1; thin floor coverings include carpeting, resilient flooring, seamless flooring, resinous matrix terrazzo, thin set quarry tile, and thin set ceramic tile.

3. Decorative Exposed Surfaces: Trowel as described in ACI PRC-302.1; take measures necessary to avoid black-burnish marks; decorative exposed surfaces include surfaces to be stained or dyed, pigmented concrete, surfaces to receive liquid hardeners, surfaces to receive dry-shake hardeners, surfaces to be polished, and all other exposed slab surfaces.

**3.05 CURING AND PROTECTION**

A. Comply with requirements of ACI PRC-308. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.

B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.

SECTION 03 3511  
CONCRETE FLOOR FINISHES

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Manufacturer's published data on each finishing product, including information on compatibility of different products and limitations.

B. Maintenance Data: Provide data on maintenance and renewal of applied finishes.

**1.02 FIELD CONDITIONS**

A. Maintain light level equivalent to a minimum 200 W light source at 8 feet (2.5 m) above the floor surface over each 20 foot (6 m) square area of floor being finished.

B. Do not finish floors until interior heating system is operational.

C. Maintain ambient temperature as recommended my manufactures installation instruction

**PART 2 PRODUCTS**

**2.01 CONCRETE FLOOR FINISH APPLICATIONS**

A. Unless otherwise indicated, all exposed concrete floors (F-1) are to be finished using Densifier/Hardener and Penetrating Sealer.

**2.02 DENSIFIERS AND HARDENERS**

A. Liquid Densifier and Hardener: Penetrating chemical compound that reacts with concrete, filling the pores, hardening, and dustproofing.

1. Composition: Hybrid Silicate.

a. Products:

1) Ameripolish, Inc; 3D HSL Hybrid Silicate Densifier: www.ameripolish.com.

**2.03 COATINGS**

A. Penetrating Sealer: Transparent, nonyellowing, water- or solvent-based coating.

1. Composition: Hybrid Mixture.

a. Products:

1) Ameripolish, Inc; SR2 Concrete Sealer: www.ameripolish.com.

**PART 3 EXECUTION**

**3.01 GENERAL**

A. Apply materials in accordance with manufacturer's instructions.

**3.02 COATING APPLICATION**

A. Verify that surface is free of previous coatings, sealers, curing compounds, water repellents, litanie, efflorescence, fats, oils, grease, wax, soluble salts, residues from cleaning agents, and other impediments to adhesion.

B. Protect adjacent non-coated areas from drips, overflow, and overspray; immediately remove excess material.

C. Apply coatings in accordance with manufacturer's instructions, matching approved mock-ups for color, special effects, sealing and workmanship.

SECTION 04 7300  
MANUFACTURED STONE MASONRY

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Provide data for AMSMV units, lightweight synthetic stone veneer, mortar, lath, rainscreen drainage material, and water-resistive barrier, including:

1. Preparation instructions and recommendations.

2. Storage and handling requirements and recommendations.

B. Shop Drawings: Submit detail drawings depicting proper installation and flashing techniques. Coordinate locations with those found on drawings.

**PART 2 PRODUCTS**

**2.01 ADHERED MANUFACTURED STONE MASONRY VENEER (AMSMV)**

A. AMSMV: Cast masonry units using a mixture of cement, lightweight aggregates, concrete additives and color pigments to replicate appearance of natural stone and designed to be applied with a cementitious mortar to a backing surface, complying with ASTM C1670/C1670M and ICC-ES AC51.

1. Style(s): As indicated on

2. Color, Texture, Range, Special Shapes: As indicated on drawings.

**2.02 MORTAR MIXES**

A. Packaged Dry Material for Mortar for Unit Masonry: Premixed Portland cement, hydrated lime, and sand; complying with ASTM C1714/C1714M and capable of producing mortar of specified strength in accordance with ASTM C270 with addition of water only.

1. Type: Type S.

2. Color: As Indicated on drawings..

**2.03 ACCESSORIES**

A. Metal Lath with Rainscreen Drainage Material: Factory-assembled combination of mesh drainage material and metal lath.

B. Water-Resistive Barrier: ASTM D226/D226M or ASTM E2556/E2556M.

**PART 3 EXECUTION**

**3.01 INSTALLATION - AMSMV**

A. Install AMSMV with a cementitious mortar setting bed to a scratch coat backing surface, in accordance with AMSMV manufacturer's instructions, NCMA (AMSV), NCMA TEK 20-01, ASTM C1780 and ICC-ES AC51.

**3.02 INSTALLATION - MASONRY FLASHINGS**

A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.

SECTION 05 5133  
METAL LADDERS

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Shop Drawings:

1. Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.

**PART 2 PRODUCTS**

**2.01 PREFABRICATED LADDERS**

A. Fixed Access Ladder

1. Tubular Rail Low Parapet Access Ladder with Platform and Return. Basis of design: O'Keeefe's Inc, Model 503

**PART 3 EXECUTION**

**3.01 INSTALLATION**

A. Install items plumb and level, accurately fitted, free from distortion or defects.

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Provide technical data on insulated sheathing, wood preservative materials, and application instructions.

**PART 2 PRODUCTS**

**2.01 GENERAL REQUIREMENTS**

A. Dimension Lumber: Comply with PS 20 and requirements of specied grading agencies.

1. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.

2. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

SECTION 06 1000  
ROUGH CARPENTRY

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Provide technical data on insulated sheathing, wood preservative materials, and application instructions.

**PART 2 PRODUCTS**

**2.01 GENERAL REQUIREMENTS**

A. Dimension Lumber: Comply with PS 20 and requirements of specied grading agencies.

1. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.

2. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

**2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS**

A. Sizes: Nominal sizes as indicated on drawings, Rough (unsurfaced).

B. Moisture Content: S-dry or MC19.

C. Stud Framing (2 by 2 through 2 by 6 (50 by 50 mm through 50 by 150 mm)):

1. Species: See Structural Sheets

2. Grade: See Structural Sheets.

D. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:

1. Lumber: S4S, No. 2 or Standard Grade.

2. Boards: Standard or No. 3.

**2.03 CONSTRUCTION PANELS**

A. Roof Sheathing: Plywood or Oriented strand board wood structural panel; PS 2.

1. Grade: Structural 1 Sheathing.

2. Bond Classification: Exposure 1.

3. Performance Category: 19/32" PERF CAT.

4. Span Rating: 40/20.

5. Edges: Square.

6. Fastening: See structural drawings

7. Exposure Time: Sheathing will not delaminate or require sanding due to moisture absorption from exposure to weather for up to 500 days.

B. Wall Sheathing: Oriented strand board wood structural panel; PS 2.

1. Grade: Structural 1 Sheathing.

2. Bond Classification: Exposure 1.

3. Performance Category: 15/32".

4. Span Rating: 40/20.

5. Edges: Square.

6. Fastening: See structural Drawings

C. Communications and Electrical Room Mounting Boards: PS 1 A-D plywood, or medium density fiberboard; 3/4 inch (19 mm) thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.

**2.04 ACCESSORIES**

A. Fasteners and Anchors:

1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.

B. Joist Hangers: Hot dipped galvanized steel in exposed conditions.

1. For contact with preservative treated wood in exposed locations, provide minimum G185 (Z550) galvanizing complying with ASTM A653/A653M.

C. Sill Gasket on Top of Foundation Wall: 1/4 inch (6 mm) thick, plate width, closed cell plastic foam from continuous rolls.

D. Termite-Resistant Sill Plate Barrier: Self-adhesive, film-backed barrier with release sheet; adheres to concrete substrates and blocks termite access.

**2.05 FACTORY WOOD TREATMENT**

A. Treated Lumber and Plywood: Comply with requirements of AWP/A U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.

1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.

B. Fire Retardant Treatment:

1. Interior Type A: AWP/A U1, Use Category UCFA, Commodity Specification H, low temperature (low hygroscopic) type, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes.

a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.

b. Treat rough carpentry items as indicated .

c. Do not use treated wood in applications exposed to weather or where the wood may become wet.

**PART 3 EXECUTION**

**3.01 INSTALLATION - GENERAL**

A. Select material sizes to minimize waste.

B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.

C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

**3.02 BLOCKING, NAILERS, AND SUPPORTS**

A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.

B. In framed assemblies that have concealed spaces, provide solid wood fireblocking as required by applicable local code, to close concealed draft openings between floors and between top story and rooftop attic space; other material acceptable to authorities having jurisdiction may be used in lieu of solid wood blocking.

C. In metal stud walls, provide continuous blocking around door and window openings for anchorage of frames, securely attached to stud framing.

D. In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is explicitly indicated.

E. Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is explicitly indicated.

**3.03 INSTALLATION OF CONSTRUCTION PANELS**

A. Roof Sheathing: Secure panels with long dimension perpendicular to framing members, with ends staggered and over firm bearing.

B. Wall Sheathing: Secure with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using nails, screws, or staples.

C. Communications and Electrical Room Mounting Boards: Secure with screws to studs with edges over firm bearing; space fasteners at maximum 24 inches (610 mm) on center on all edges and into studs in field of board.

1. At fire-rated walls, install board over wall board indicated as part of the fire-rated assembly.

2. Where boards are indicated as full floor-to-ceiling height, install with long edge of board parallel to studs.

3. Install adjacent boards without gaps.

SECTION 06 1753  
SHOP-FABRICATED WOOD TRUSSES

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Shop Drawings: Show truss configurations, sizes, spacing, size and type of plate connectors, cambers, framed openings, bearing and anchor details, and bridging and bracing.

**1.02 QUALITY ASSURANCE**

A. Designer Qualifications: Perform design by or under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed in the State in which the Project is located.

**PART 2 PRODUCTS**

**2.01 TRUSSES**

A. Wood Trusses: Design and fabricate trusses in accordance with ANSI/TPI 1 and to achieve specified design requirements indicated on structural sheets.

**2.02 MATERIALS**

A. Lumber:

1. Moisture Content: Between 7 and 9 percent.

2. Lumber fabricated from old growth timber is not permitted.

B. Steel Connectors: Hot-dipped galvanized steel sheet, ASTM A653/A653M Structural Steel (SS) Grade 33/230, with G90/Z275 coating; die stamped with integral teeth; thickness as indicated.

**2.03 ACCESSORIES**

A. Wood Blocking, Bridging, Plates, and Miscellaneous Framing: Softwood lumber, any species, construction grade, 19 percent maximum and 7 percent minimum moisture content.

**PART 3 EXECUTION**

**3.01 ERECTION**

A. Install trusses in accordance with manufacturer's instructions, SBCA (BCSI); maintain a copy of applicable documents on site until installation is complete.

B. Set members level and plumb, in correct position.

C. Do not field-cut or alter structural members without approval of Architect.

SECTION 06 4100  
ARCHITECTURAL WOOD CASEWORK

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Shop Drawings: Shall be provided from owner to the General Contractor for coordination and shall indicate materials, component profiles, fastening methods, jointing details, and accessories.

**PART 2 PRODUCTS**

**2.01 CASEWORK**

A. Owner shall provided and install all cabinets, countertops, hardware and accessories unless noted otherwise on the drawings. **General Contractor shall coordinate with owners supplier/installer during the course of contruction and provided all blocking and required rough-ins.**

B. Owners supplier/installer: Fortner Inc., Jeff Fortier 501-328-7317

SECTION 06 8316  
FIBERGLASS REINFORCED PANELING

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

A. Fiberglass Reinforced Plastic Panels:

1. Marlite, Inc; Symmetrix Smartseam: www.marlite.com/. Nick Vildardell 330.260.7624

**2.02 PANEL SYSTEMS**

A. Wall Panels FRP1:

1. Panel Size: 4 by 4 feet (1.2 by 1.2 m).

2. Panel Thickness: 0.09 inch (2.3 mm).

3. Surface Design: 3"x6" Subway Tile Horizontal.

4. Color: SSA917-G63 with Grey Grout Lines.

5. Attachment Method: Adhesive only, with trim and sealant in joints.

**2.03 MATERIALS**

A. Panels: Fiberglass reinforced plastic (FRP), complying with ASTM D5319.

1. Surface Burning Characteristics: Maximum flame spread index of 25 and smoke developed index of 450, when system tested in accordance with ASTM E84.

B. Trim: Aluminum; Anodized Where Needed

C. Sealant: Type recommended by panel manufacturer; color matching grout.

**PART 3 EXECUTION**

**3.01 INSTALLATION - WALLS**

A. Install panels in accordance with manufacturer's instructions.

B. Seal gaps at floor, ceiling, and between panels with applicable sealant to prevent moisture intrusion.

SECTION 07 2100  
THERMAL INSULATION

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Provide data on product characteristics, performance criteria, and product limitations.

**PART 2 PRODUCTS**

**2.01 APPLICATIONS**

A. Insulation Under Concrete Slabs: Extruded polystyrene (XPS) board.

B. Insulation at Perimeter of Foundation: Extruded polystyrene (XPS) board.

C. Insulation in Wood Framed Walls: Batt insulation with no vapor retarder.

D. Insulation over Roof Deck: Polyisocyanurate board. Refer to TPO Membrane Roofing Section 07 5423.

**2.02 FOAM BOARD INSULATION MATERIALS**

A. Extruded Polystyrene (XPS) Board Insulation: Comply with ASTM C578 with either natural skin or cut cell surfaces.

1. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.

2. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.

3. Type and Thermal Resistance, R-value (RSI-value): Type IV, 5.0 (0.88), minimum, per 1 inch (25.4 mm) thickness at 75 degrees F (24 degrees C) mean temperature.

**2.03 FIBERGLAS INSULATION BATT INSULATION**

A. Unfaced Batt Insulation: ASTM C 665, Type I, preformed formaldehyde free glass fiber batt type, unfaced.

1. Combustibility: Noncombustible per ASTM E 136.

2. Thermal Resistance: R-21, 5 1/2 inch

**PART 3 EXECUTION**

**3.01 BOARD INSTALLATION UNDER CONCRETE SLABS**

A. Place insulation under slabs on grade after base for slab has been compacted.

**3.02 BATT INSTALLATION**

A. Install insulation and vapor retarder in accordance with manufacturer's instructions.

B. Install in exterior wall and roof spaces without gaps or voids. Do not compress insulation.

SECTION 07 2500  
WEATHER BARRIERS

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Provide data on material characteristics.

**PART 2 PRODUCTS**

**2.01 WATER-RESISTIVE BARRIERS**

A. Description: Materials installed behind exterior wall coverings; designed to prevent liquid water from further penetration into exterior wall assembly. Primary materials include mechanically applied sheets; accessory materials include flashings and seam tapes.

B. Regulatory Requirements: For use in ICC (IBC) construction Types I, II, III, and IV buildings greater than 40 feet (12.2 m) in height.

1. Comply with NFPA 285 wall assembly requirements in accordance with local building code and authorities having jurisdiction (AHJ).

**2.02 ACCESSORIES**

A. Seal and Perimeter Tapes: As recommended by water-resistive barrier manufacturer.

B. Flashings and Sealants: As recommended by water-resistive barrier manufacturer for application.

SECTION 07 5200  
FIBERGLASS REINFORCED PLASTIC PANELS

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

A. Fiberglass Reinforced Plastic Panels:

1. Marlite, Inc; Symmetrix Smartseam: www.marlite.com/. Nick Vildardell 330.260.7624

**2.02 PANEL SYSTEMS**

A. Wall Panels FRP1:

1. Panel Size: 4 by 4 feet (1.2 by 1.2 m).

2. Panel Thickness: 0.09 inch (2.3 mm).

3. Surface Design: 3"x6" Subway Tile Horizontal.

4. Color: SSA917-G63 with Grey Grout Lines.

5. Attachment Method: Adhesive only, with trim and sealant in joints.

**2.03 MATERIALS**

A. Panels: Fiberglass reinforced plastic (FRP), complying with ASTM D5319.

1. Surface Burning Characteristics: Maximum flame spread index of 25 and smoke developed index of 450, when system tested in accordance with ASTM E84.

B. Trim: Aluminum; Anodized Where Needed

C. Sealant: Type recommended by panel manufacturer; color matching grout.

**PART 3 EXECUTION**

**3.01 BOARD INSTALLATION UNDER CONCRETE SLABS**

A. Place insulation under slabs on grade after base for slab has been compacted.

**3.02 BATT INSTALLATION**

A. Install insulation and vapor retarder in accordance with manufacturer's instructions.

B. Install in exterior wall and roof spaces without gaps or voids. Do not compress insulation.

SECTION 07 5423  
THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING - CARLISLE

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Provide manufacturer's written information listed below.

1. Product data indicating membrane materials, flashing materials, insulation, vapor retarder, surfacing, and fasteners.

B. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, and paver layout.

C. Warranty:

1. Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

2. Submit installer's certification that installation complies with all warranty conditions for the waterproof membrane.

**1.02 WARRANTY**

A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.

B. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing that leaks or is damaged due to wind or other natural causes.

1. Warranty Term: 20 years.

2. For repair and replacement include costs of both material and labor in warranty.

3. Include accidental punctures according to the manufacturer's standard warranty terms.

4. Include hail damage according to the manufacturer's standard warranty terms.

**PART 2 PRODUCTS**

**2.01 MANUFACTURER**

A. Carlisle SynTec Systems: www.carlisle-syntec.com/#sle.

**2.02 ROOFING APPLICATIONS**

A. TPO Membrane Roofing: One ply membrane, fully adhered, over insulation.

B. Roofing Assembly Performance Requirements and Design Criteria:

1. Wind Uplift:

a. Designed to withstand wind uplift forces calculated with ASCE 7.

b. Design Wind Speed: In accordance with local building code and authorities having jurisdiction (AHJ).

2. Insulation Thermal Resistance (R-Value): Provide R-25, minimum, over entire roof deck.

**2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS**

A. Membrane:

1. Material: Thermoplastic Polyolefin (TPO) complying with ASTM D6678/D6678M.

2. Products: Sure-Weld TPO

B. Seaming Materials: As recommended by membrane manufacturer.

C. Flexible Flashing Material: Same material as membrane.

D. Base Flashing: Provide waterproof, fully adhered base flashing system at all penetrations, plane transitions, and terminations.

**2.04 DECK SHEATHING AND COVER BOARDS**

A. Deck Sheathing: Polyisocyanurate (ISO) thermal board, complying with ASTM C1289; Type V - Faced with oriented strand board (OSB) on one major surface of core foam and glass fiber mat on other major surface, and Grade 2 with 20 psi (138 kPa), minimum, compressive strength.

**2.05 INSULATION**

A. Polyisocyanurate (ISO) Board Insulation: Complies with ASTM C1289, Type II, Class 1 - Faced with glass-reinforced felt on both surfaces of core foam.

1. Grade and Compressive Strength: Grade 2, 20 psi (Grade 2, 138 kPa), minimum.

**2.06 ACCESSORIES**

A. Prefabricated Flashing Accessories:

1. Corners and Seams: Same material as membrane, in manufacturer's standard thicknesses.

2. Penetrations: Same material as membrane, with manufacturer's standard cut-outs, rigid inserts, clamping rings, and flanges.

3. Sealant Pockets: Same material as membrane, with manufacturer's standard accessories, in manufacturer's standard configuration.

4. Pressure Sensitive Cover Strips: 6 inches (152 mm) wide, 45 mil, 0.045 inch (1.1 mm) thick, non-reinforced TPO membrane laminated to 35 mil, 0.035 inch (0.9 mm) thick cured synthetic rubber with pressure sensitive adhesive.

5. Walkway Rolls: Slip-resistant TPO membrane, with diamond plate tread pattern; 80 mil (0.080 inch) (2 mm) thick.

a. Width: 34 inches (864 mm), nominal.

b. Length: 50 feet (15.24 m), nominal.

c. Tensile Strength: 600 psi (4.1 MPa), minimum, in accordance with ASTM D638 test method.

d. Color: White.

6. Miscellaneous Flashing: Non-reinforced TPO membrane; 80 mil, 0.080 inch (2.0 mm) thick, in manufacturer's standard lengths and widths.

B. Membrane Adhesive: As recommended by membrane manufacturer.

C. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.

D. Sealants: As recommended by membrane manufacturer.

E. Cleaner: Manufacturer's standard, clear, solvent-based cleaner.

F. Edgings and Terminations: Manufacturer's standard edge and termination accessories.

**PART 3 EXECUTION**

**3.01 INSTALLATION - GENERAL**

A. Perform work in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.

B. Do not apply roofing membrane during unsuitable weather.

C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.

D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

SECTION 07 4213  
METAL WALL PANELS

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Shop Drawings: Indicate dimensions, layout, joints, construction details, support clips, and methods of anchorage.

**PART 2 PRODUCTS**

**2.01 METAL WALL PANEL SYSTEM**

A. Wall Panel System: Provided by Owner and installed by Owners supplier/installer. General Contractor shall coordinate with Owners Supplier/installer - Fortier Inc. 501-328-7317

SECTION 07 4213.19  
INSULATED METAL WALL PANELS

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Shop Drawings: Indicate dimensions and Provide to General Contractor for coordination.

**PART 2 PRODUCTS**

**2.01 PERFORMANCE / DESIGN CRITERIA**

SECTION 07 5423  
THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING - CARLISLE

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Provide manufacturer's written information listed below.

1. Product data indicating membrane materials, flashing materials, insulation, vapor retarder, surfacing, and fasteners.

B. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, and paver layout.

C. Warranty:

1. Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

2. Submit installer's certification that installation complies with all warranty conditions for the waterproof membrane.

**1.02 WARRANTY**

A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.

B. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing that leaks or is damaged due to wind or other natural causes.

1. Warranty Term: 20 years.

2. For repair and replacement include costs of both material and labor in warranty.

3. Include accidental punctures according to the manufacturer's standard warranty terms.

4. Include hail damage according to the manufacturer's standard warranty terms.

**PART 2 PRODUCTS**

**2.01 MANUFACTURER**

A. Carlisle SynTec Systems: www.carlisle-syntec.com/#sle.

**2.02 ROOFING APPLICATIONS**

A. TPO Membrane Roofing: One ply membrane, fully adhered, over insulation.

B. Roofing Assembly Performance Requirements and Design Criteria:

1. Wind Uplift:

a. Designed to withstand wind uplift forces calculated with ASCE 7.

b. Design Wind Speed: In accordance with local building code and authorities having jurisdiction (AHJ).

2. Insulation Thermal Resistance (R-Value): Provide R-25, minimum, over entire roof deck.

**2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS**

A. Membrane:

1. Material: Thermoplastic Polyolefin (TPO) complying with ASTM D6678/D6678M.

2. Products: Sure-Weld TPO

B. Seaming Materials: As recommended by membrane manufacturer.

C. Flexible Flashing Material: Same material as membrane.

D. Base Flashing: Provide waterproof, fully adhered base flashing system at all penetrations, plane transitions, and terminations.

**2.04 DECK SHEATHING AND COVER BOARDS**

A. Deck Sheathing: Polyisocyanurate (ISO) thermal board, complying with ASTM C1289; Type V - Faced with oriented strand board (OSB) on one major surface of core foam and glass fiber mat on other major surface, and Grade 2 with 20 psi (138 kPa), minimum, compressive strength.

**2.05 INSULATION**

A. Polyisocyanurate (ISO) Board Insulation: Complies with ASTM C1289, Type II, Class 1 - Faced with glass-reinforced felt on both surfaces of core foam.

1. Grade and Compressive Strength: Grade 2, 20 psi (Grade 2, 138 kPa), minimum.

**2.06 ACCESSORIES**

A. Prefabricated Flashing Accessories:

1. Corners and Seams: Same material as membrane, in manufacturer's standard thicknesses.

2. Penetrations: Same material as membrane, with manufacturer's standard cut-outs, rigid inserts, clamping rings, and flanges.

3. Sealant Pockets: Same material as membrane, with manufacturer's standard accessories, in manufacturer's standard configuration.

4. Pressure Sensitive Cover Strips: 6 inches (152 mm) wide, 45 mil, 0.045 inch (1.1 mm) thick, non-reinforced TPO membrane laminated to 35 mil, 0.035 inch (0.9 mm) thick cured synthetic rubber with pressure sensitive adhesive.

5. Walkway Rolls: Slip-resistant TPO membrane, with diamond plate tread pattern; 80 mil (0.080 inch) (2 mm) thick.

a. Width: 34 inches (864 mm), nominal.

b. Length: 50 feet (15.24 m), nominal.

c. Tensile Strength: 600 psi (4.1 MPa), minimum, in accordance with ASTM D638 test method.

d. Color: White.

6. Miscellaneous Flashing: Non-reinforced TPO membrane; 80 mil, 0.080 inch (2.0 mm) thick, in manufacturer's standard lengths and widths.

B. Membrane Adhesive: As recommended by membrane manufacturer.

C. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.

D. Sealants: As recommended by membrane manufacturer.

E. Cleaner: Manufacturer's standard, clear, solvent-based cleaner.

F. Edgings and Terminations: Manufacturer's standard edge and termination accessories.

**PART 3 EXECUTION**

**3.01 INSTALLATION - GENERAL**

A. Perform work in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.

B. Do not apply roofing membrane during unsuitable weather.

C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.

D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

SECTION 07 5423  
THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING - CARLISLE

**PART 1 GENERAL**

**1.01 SUBMITTALS**

A. Product Data: Provide manufacturer's written information listed below.

1. Product data indicating membrane materials, flashing materials, insulation, vapor retarder, surfacing, and fasteners.

B. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, and paver layout.

C. Warranty:

1. Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

2. Submit installer's certification that installation complies with all warranty conditions for the waterproof membrane.

**1.02 WARRANTY**

A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.

B. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing that leaks or is damaged due to wind or other natural causes.

1. Warranty Term: 20 years.

2. For repair and replacement include costs of both material and labor in warranty.

3. Include accidental punctures according to the manufacturer's standard warranty terms.

4. Include hail damage according to the manufacturer's standard warranty terms.

**PART 2 PRODUCTS**

**2.01 MANUFACTURER**

A. Carlisle SynTec Systems: www.carlisle-syntec.com/#sle.

**2.02 ROOFING**



SECTION 07 9200  
JOINT SEALANTS

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Submit manufacturer's technical datasheets for each product to be used; include the following:

1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.

2. List of backing materials approved for use with the specific product.

3. Backing material recommended by sealant manufacturer.

4. Substrates that product is known to satisfactorily adhere to and with which it is compatible.

5. Substrates the product should not be used on.

2.01 JOINT SEALANT APPLICATIONS

A. Scope:

1. Exterior Joints:

a. Seal the following joints:

1) Wall expansion and control joints.

2) Joints between doors, windows, and other frames or adjacent construction.

2. Interior Joints:

a. Do not seal through-penetrations in sound-rated assemblies that are also fire-rated assemblies.

b. Seal the following joints:

1) Joints between door frames and window frames and adjacent construction.

B. Exterior Joints: Use nonsag polyurethane sealant, unless otherwise indicated.

C. Interior Joints: Use nonsag polyurethane sealant, unless otherwise indicated.

1. Wall and Ceiling Joints in Nonwet Areas: Acrylic emulsion latex sealant.

2. Joints between Tile in Wet Areas and Floors, Walls, and Ceilings: Mildew-resistant silicone sealant; white.

3. In Sound-Rated Assemblies: Acrylic emulsion latex sealant.

4. Narrow Control Joints in Interior Concrete Slabs: Self-leveling epoxy sealant.

D. Interior Wet Areas: Bathrooms, restrooms, and kitchens; fixtures in wet areas include plumbing fixtures, countertops, cabinets, and other similar items.

E. Sound-Rated Assemblies: Walls and ceilings identified as STC-rated, sound-rated, or acoustical.

2.02 NONSAG JOINT SEALANTS

A. Nonstaining Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic.

1. Movement Capability: Plus and minus 35 percent, minimum.

2. Nonstaining to Porous Stone: Nonstaining to light-colored natural stone when tested in accordance with ASTM C1248.

3. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants.

B. Mildew-Resistant Silicone Sealant: ASTM C920, Grade NS, Uses M and A; single component, mildew resistant; not expected to withstand continuous water immersion or traffic.

1. Color: Match adjacent surface.

C. Polyurethane Sealant: ASTM C920, Grade NS, Uses M and A; single or multi-component; not expected to withstand continuous water immersion or traffic.

1. Movement Capability: Plus and minus 35 percent, minimum.

D. Acrylic Emulsion Latex: Water-based; ASTM C834, single component, nonstaining, nonbleeding, nonsagging; not intended for exterior use.

2.03 ACCESSORIES

A. Sealant Backing Materials, General: Materials placed in joint before applying sealants; assists sealant performance and service life by developing optimum sealant profile and preventing three-sided adhesion; type and size recommended by sealant manufacturer for compatibility with sealant, substrate, and application.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install this work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.

B. Provide joint sealant installations complying with ASTM C1193.

C. Install bond breaker backing tape where backer rod cannot be used.

D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.

E. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.

F. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

SECTION 08 0671  
DOOR HARDWARE SCHEDULE

PART 1 GENERAL

1.01 SUBMITTALS

A. Comply with submittal requirements as indicated in Section 08 7100.

2.01 MANUFACTURERS

A. Manufacturer's Abbreviations: Coordinate with manufacturers listed in Section 08 7100.

1. CR - Corbin Russwin.

2. EXT - Existing

3. HGR - Hager.

4. HES - HES.

5. IVE - Ives.

6. LCN - LCN.

7. NGP - National Guard Products.

8. PEM - Pemko.

9. SCH - Schlage.

10. SDC - Secure Door Controls

11. SEC - Securitron.

12. SIM - Simplex

13. VD - Von Duprin.

2.02 DESCRIPTION

A. Door hardware sets provided represent the design intent, they are only a guideline and should not be considered a detailed or complete hardware schedule.

1. Provide door hardware item(s) as required for similar purposes, even when item is not listed for a door in Door Hardware Schedule.

B. Door hardware supplier is responsible for providing proper size and hand of door for products required in accordance with Door Hardware Schedule and as indicated on drawings.

C. Quantities listed are for each Pair (PR) of doors, or for each Single (SGL) door, as indicated in hardware sets.

2.03 LOCK FUNCTION CODES

A. Function Codes for Cylindrical Locks: Complying with BHMA A156.5.

1. Code F75; Passage: Latch retracted by knobs/levers at all times.

2. Code F76; Privacy Lock: Outside knob/lever locked by pushbutton on inside knob/lever. Rotating inside knob/lever or closing door releases/unlocks button. Emergency release in outside knob/lever.

3. Code F81; Office Lock: Turn button locking. Turning button on inside locks outside knob/lever until unlocked by key or by rotating the inside knob/lever. Inside knob/lever always free. Deadlocking latch bolt.

4. Code F82; Entry Lock: Push button locking. Button on inside locks outside knob/lever until unlocked by key or by rotating the inside knob/lever. Inside knob/lever always free. Deadlocking latch bolt.

5. Code F84; Classroom Lock: Outside knob/lever locked/unlocked by key in outside knob/lever. Inside knob/lever always free. Deadlocking latchbolt.

6. Code F86; Storeroom Lock: Outside knob/lever always locked/rigid. Latchbolt retracted by key in outside knob/lever or by rotating inside knob/lever. Inside knob/lever always free. Deadlocking latchbolt.

7. Code F87; Asylum Lock: Deadlocking latch bolt operated by key in lever from either side. Both levers are always inoperable.

B. Function Codes for Mortise Locks: Complying with BHMA A156.13.

C. Function Codes for Exit Devices: Complying with BHMA A156.3.

1. Code 09; Exit Device: Entrance by knob/lever with key (pullside) only. Unit is locked when the key is removed.

2.04 FINISHES

A. Finishes: Complying with BHMA A156.18.

1. Code 626: Satin chromium plated over nickel, with brass or bronze base material (former US equivalent US26D).

2. Code 652: Satin chromium plated over nickel, with steel base material (former US equivalent US26D).

PART 3 EXECUTION

3.01 HARDWARE SET # 01: "ALL ALUMINUM STOREFRONTS"

A. For use on Door Number(s): 101, 102, 107, 108, 123, and 124.

B. All hardware by aluminum storefront manufacture.

3.02 HARDWARE SET #02: "SALES 121 TO DRY STORAGE 102; CASHIER 106 TO OFFICE 107; PORTER/LAUNDRY 112 TO ELECTRICAL/FUEL CONTROLS 113; RESTROOM HALLWAY 115 TO STORAGE 117; "

A. For use on door number(s): 103, 106, 112, and 116

B. Provide for each single (SGL) door(s).

UNITS	LOCK	ITEM	DESCRIPTION	FINISH	MFR
3 each		Hinge	BB1191 4.5x4.5	652	HAG
			Simplex L1076 Pushbutton		
1 each	F86	Lockset - Storeroom	Cylindrical Lock w/ Lever Combination Entry and Privacy w/ Key Override	626	SIM
1 each		Core	6-pin Conventional	626	SCH
1 each		Closer	4040xp	689	LCN
1 each		WALL STOP	WS407CVX	630	IVE
3 each		SILENCER	SR64	GRY	IVE

3.03 HARDWARE SET # 03: "DRY STORAGE 102 TO EXTERIOR "

A. For use on Door Number(s): 105.

B. Provide for each Single (SGL) door(s).

UNITS	LOCK	ITEM	DESCRIPTION	FINISH	MFR
3 each		Hinge	BB1191 4.5x4.5	652	HAG
			Simplex L1076 Pushbutton		
1each	F86	Lockset - Storeroom	Cylindrical Lock w/ Lever Combination Entry and Privacy w/ Key Override	626	SIM
1 each		Exit Device	LD x 99 x QEL x 996i x NL	626	VD
1 each		Core	6-pin Conventional	626	SCH
1 each		Closer	4040xp	689	LCN
1 each		Threshold	1424 Saddle 4"x0.5"	Mill	NGP
1 each		Weatherstripping	160V	Mill	NGP
1 Each		WALL STOP	WS407CVX	630	IVE
3 Each		SILENCER	SR64	GRY	IVE

3.04 HARDWARE SET # 04: "SHOWER CORRIDOR 109 TO SHOWER-1 110; SHOWER CORRIDOR 109 TO SHOWER-2 111; "

A. For use on Door Number(s): 109, and 110.

B. Provide for each Single (SGL) door(s).

UNITS	LOCK	ITEM	DESCRIPTION	FINISH	MFR
3 each		Hinge	BB1191 4.5x4.5	652	HAG
1 Each	F93	Lockset Faculty Rest Room	RHO - Grade 1	626	SCH
1 each		Core	6-pin Conventional		EXT
1 each		Closer	4040xp	689	LCN
1 each		WALL STOP	WS407CVX	630	IVE
3 each		SILENCER	SR64	GRY	IVE

3.05 HARDWARE SET # 05: "ALL TOILET PARTITIONS"

A. For use on Door Number(s): 114, 115, 117, 118, 119, and 120, .

B. Provide for each Single (SGL) door(s).

UNITS	LOCK	ITEM	DESCRIPTION	FINISH	MFR
3 each		Hinge	BB1191 4.5x 4.5	652	HAG
1 Each	F76	Lockset - Privacy	RHO - Grade 1	626	SCH

3.06 HARDWARE SET # 06: "ALL COOLER DOORS"

A. For use on Door Number(s): 113, and 121

B. All hardware by insulated panel manufacture.

SECTION 08 1113  
HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes; and one copy of referenced standards/guidelines.

B. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and any indicated finish requirements.

2.01 PERFORMANCE REQUIREMENTS

A. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.

2.02 HOLLOW METAL DOORS

A. Door Finish: Factory primed and field finished.

B. Exterior Doors: Thermally insulated.

1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).

a. Level 3 - Extra Heavy-duty.

b. Physical Performance Level B, 500,000 cycles; in accordance with ANSI/SDI A250.4.

c. Model 1 - Full Flush.

d. Door Face Metal Thickness: 18 gauge, 0.042 inch (1.0 mm), minimum.

e. 14-gauge reinforcement at hinges and locks.

f. Zinc Coating: A60/ZF180 galvannealed coating; ASTM A653/A653M.

2. Door Finish: 1-3/4 inches (44.5 mm), nominal.

3. Top Closures for Outswinging Doors: Flush with top of faces and edges.

4. Door Face Sheets: Flush.

C. Interior Doors, Non-Fire-Rated:

2.03 HOLLOW METAL FRAMES

A. Comply with standards and/or custom guidelines as indicated for corresponding door in accordance with applicable door frame requirements.

B. Frame Finish: Factory primed and field finished.

C. Exterior Door Frames: Full profile/continuously welded type.

1. Galvanizing: Components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with A40/ZF120 coating.

2. Frame Metal Thickness: 16 gauge, 0.053 inch (1.3 mm), minimum.

3. 14-gauge reinforcement at hinges and locks.

4. Weatherstripping: Separate, see Section 08 7100.

D. Interior Door Frames, Non-Fire Rated: Full profile/continuously welded type.

1. Frame Metal Thickness: 16 gauge, 0.053 inch (1.3 mm), minimum.

2. 14-gauge reinforcement at hinges and locks.

2.04 FINISHES

A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.

B. Factory Finish: Complying with ANSI/SDI A250.3, manufacturer's standard coating.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install doors and frames in accordance with manufacturer's instructions and related requirements of specified door and frame standards or custom guidelines indicated.

B. Install fire rated units in accordance with NFPA 80.

C. Coordinate frame anchor placement with wall construction.

D. Install door hardware as specified in Section 08 7100.

E. Touch up damaged factory finishes.

SECTION 08 4313  
ALUMINUM-FRAMED STOREFRONTS

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, glass and infill, door hardware, and internal drainage details.

B. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related work, expansion and contraction joint location and details, and field welding required.

2.01 BASIS OF DESIGN -- FRAMING FOR INSULATING GLAZING

A. Center-Set Style, Thermally-Broken:

1. Basis of Design: Kawneer Company Inc; 451T Framing System

2. Vertical Mullion Dimensions: 2 inches wide by 4-1/2 inches deep (51 mm wide by 114 mm deep).

B. Center-Set Style, Not Thermally-Broken:

1. Basis of Design: d Kawneer Company Inc; 450 Framing System

2. Vertical Mullion Dimensions: 1-3/4 inches wide by 4-1/2 inches deep (45 mm wide by 114 mm deep).

2.02 BASIS OF DESIGN -- SWINGING DOORS

A. Narrow Stile, Insulating Glazing, Thermally-Broken:

1. Basis of Design: Kawneer Company Inc; 350T Thermal Entrance Door

2. Thickness: 2 1/4"

B. Narrow Stile, Insulating Glazing, Not Thermally-Broken:

1. Basis of Design: Kawneer Company Inc; 350 Standard Entrance Door

2. Thickness: 1-3/4 inches (43 mm).

2.03 ALUMINUM-FRAMED STOREFRONT

A. Aluminum-Framed Storefront: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.

1. Finish Color: Dark bronze.

2. Fabrication: Joints and corners flush, hairline, and weatherproof, accurately fitted and secured; prepared to receive anchors and hardware; fasteners and attachments concealed from view; reinforced as required for imposed loads.

3. Construction: Eliminate noises caused by wind and thermal movement, prevent vibration harmonics, and prevent "stack effect" in internal spaces.

4. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.

5. Expansion/Contraction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F (95 degrees C) over a 12 hour period without causing detrimental effect to system components, anchorages, and other building elements.

6. Movement: Allow for movement between storefront and adjacent construction, without damage to components or deterioration of seals.

7. Perimeter Clearance: Minimize space between framing members and adjacent construction while allowing expected movement.

B. Performance Requirements

1. Wind Loads: Design and size components to withstand the specified load requirements without damage or permanent set, when tested in accordance with ASTM E330/E330M, using loads 1.5 times the design wind loads and 10 second duration of maximum load.

a. Member Deflection: Limit member deflection to flexure limit of glass in any direction, with full recovery of glazing materials.

2. Air Leakage: 0.06 cfm/sq ft (0.3 L/sec sq m) maximum leakage of storefront wall area when tested in accordance with ASTM E283/E283M at 1.57 psf (75 Pa) pressure difference.

2.04 COMPONENTS

A. Aluminum Framing Members: Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system.

1. Glazing Stops: Flush.

B. Glazing: See Section 08 8000.

1. For Exterior Framing: Type 1 IGU

2. For Interior Framing: Type 1/4"

C. Swing Doors: Glazed aluminum.

1. Finish: Same as storefront.

2.05 MATERIALS

A. Extruded Aluminum: ASTM B221 (ASTM B221M).

B. Fasteners: Stainless steel.

2.06 HARDWARE

A. For each door, include weatherstripping, sill sweep strip, and threshold.

B. Other Door Hardware: Storefront manufacturer's standard type to suit application.

1. Finish on Hand-Contacted Items: Polished chrome.

2. For each door, include butt hinges, pivots, push handle, pull handle, and closer.

3. At exterior doors provide deadbolt lock keyed on both sides.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install wall system in accordance with manufacturer's instructions.

SECTION 08 7100  
DOOR HARDWARE

PART 1 GENERAL

1.01 ADMINISTRATIVE REQUIREMENTS

A. Keying Requirements Meeting:

1. Schedule meeting at project site prior to Contractor occupancy.

2. Attendance Required:

a. Contractor.

b. Owner.

c. Installer's Architectural Hardware Consultant (AHC).

3. Agenda:

a. Establish keying requirements.

b. Verify locksets and locking hardware are functionally correct for project requirements.

c. Verify that keying and programming complies with project requirements.

4. Incorporate "Keying Requirements Meeting" decisions into keying submittal upon review of door hardware keying system including, but not limited to, the following:

5. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

6. Deliver established keying requirements to manufacturers.

1.02 SUBMITTALS

A. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.

B. Shop Drawings - Door Hardware Schedule: Submit detailed listing that includes each item of hardware to be installed on each door. Use door numbering scheme as included in Contract Documents.

1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).

2. Provide a complete description for each door listed.

2.01 BASIS OF DESIGN

A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.

B. Provide individual items of single type, of same model, and by same manufacturer.

C. Provide door hardware products that comply with the following requirements:

1. Applicable provisions of federal, state, and local codes.

2. Accessibility: ADA Standards and ICC A117.1.

2.02 KEY CONTROL SYSTEMS

A. Key Control Systems: Comply with guidelines of BHMA A156.28.

1. Keying: Grand master keyed.

2. Include construction keying and control keying with removable core cylinders.

2.03 FINISHES

A. Finishes: Provide door hardware of same finish, unless otherwise indicated.

1. Primary Finish: 626; satin chromium plated over nickel, with brass or bronze base material (former US equivalent US26D); BHMA A156.18.

2. Secondary Finish: 625; bright chromium plated over nickel, with brass or bronze base material (former US equivalent US26); BHMA A156.18.

a. Use secondary finish in kitchens, bathrooms, and other spaces containing chrome or stainless steel finished appliances, fittings, and equipment; provide primary finish on one side of door and secondary finish on other side if necessary.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install hardware in accordance with manufacturer's instructions and applicable codes.

B. Use templates provided by hardware item manufacturer.

C. Door Hardware Mounting Heights: Distance from finished floor to center line of hardware item. As indicated in following list; unless noted otherwise in Door Hardware Schedule or on drawings.

D. Set exterior door thresholds with full-width bead of elastomeric sealant at each point of contact with floor providing a continuous weather seal; anchor thresholds with stainless steel countersunk screws.

3.02 ADJUSTING

A. Adjust hardware for smooth operation.

SECTION 08 8000  
GLAZING

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data on Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.

B. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.

2.01 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass.

1. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.

2. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.

3. Glass thicknesses listed are minimum.

B. Weather-Resistive Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure water-resistive barrier, vapor retarder, and/or air barrier.

1. In conjunction with weather barrier related materials described in other sections, as follows:

C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:

SECTION 09 3000  
TILING

PART 1 GENERAL

1.01 SUBMITTALS

A. Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.

2. Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.

3. Solar Optical Properties: Comply with NFRC 300 test method.

2.02 GLASS MATERIALS

A. Float Glass: Provide float glass based glazing unless otherwise indicated.

1. Annealed Type: ASTM C1036, Type I - Transparent Flat, Class 1 - Clear, Quality - Q3.

2.03 INSULATING GLASS UNITS

A. Insulating Glass Units: Types as indicated.

1. Durability: Certified by an independent testing agency to comply with ASTM E2190.

2. Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.

3. Spacer Color: Black.

4. Edge Seal:

a. Color: Black.

5. Purge interpane space with dry air, hermetically sealed.

B. Type IG-1 - Insulating Glass Units: Vision glass, double glazed.

1. Applications: Exterior glazing unless otherwise indicated.

2. Space between lites filled with argon.

3. Outdoor Lite: Annealed float glass, 1/4 inch (6.4 mm) thick, minimum.

a. Tint: Clear.

4. Indoor Lite: Annealed float glass, 1/4 inch (6.4 mm) thick, minimum.

a. Tint: Clear.

b. Coating: Low-E, on #3 surface.

5. Total Thickness: 1 inch (25.4 mm).

6. Thermal Transmittance (U-Value), Summer - Center of Glass: 0.32, minimum.

2.04 GLAZING UNITS

A. Type IG-1 - Monolithic Interior Vision Glazing:

1. Applications: Interior glazing unless otherwise indicated.

2. Glass Type: Annealed float glass.

3. Tint: Clear.

4. Thickness: 1/4 inch (6.4 mm), nominal.

2.05 ACCESSORIES

A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot (25 mm for each square meter) of glazing or minimum 4 inch (100 mm) by width of glazing rabbit space minus 1/16 inch (1.5 mm) by height to suit glazing method and pane weight and area.

B. Glazing Splines: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option II; color black.

PART 3 EXECUTION

3.01 INSTALLATION - DRY GLAZING METHOD (GASKET GLAZING)

A. Place setting blocks at 1/4 points with edge block no more than 6 inch (152 mm) from corners.

B. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.

C. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.

SECTION 09 2116  
GYPSUM BOARD ASSEMBLIES - USG

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Include data on metal framing, gypsum board, glass mat faced gypsum board, sheathing, accessories, and joint finishing system.

2.01 WALL ASSEMBLY TYPES

A. See drawings for graphic representations of assemblies.

2.02 GYPSUM BOARD ASSEMBLIES

A. Provide completed assemblies complying with ASTM C840 and GA-216.

B. Interior Partitions, Indicated as Acoustic: Provide completed assemblies with the following characteristics:

1. Sound Transmission Loss Values: STC as indicated, calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90.

2.03 BOARD MATERIALS

A. Manufacturers - Gypsum-Based Board:

1. USG Corporation: www.usg.com/#sle.

B. Gypsum Board: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.

1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.

2. Thickness:

a. Vertical Surfaces: As indicated on drawings.

3. Moisture- and Mold-Resistant Paper-Faced Board Products:

a. Type: V-shaped PVC with tear away fins.

2.04 GYPSUM WALLBOARD ACCESSORIES

A. Beads, Joint Accessories, and Other Trim: ASTM C1047, rigid plastic, galvanized steel, or rolled zinc, unless otherwise indicated.

1. Corner Beads: Low profile, for 90 degree outside corners.

2. L-Trim with Tear-Away Strip: Sized to fit gypsum wallboard.

3. Expansion Joints:

a. Type: V-shaped PVC with tear away fins.

2.05 JOINT TREATMENT

A. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:

1. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.

2. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.

3. Level 2: In utility areas, behind cabinetry, and on backing board to receive tile finish.

4. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.

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SHEET

G103

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PROJECT NO.  
24007

DRAWING ISSUED DATE:  
10/09/24

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G103

Architectural Specifications

PROJECT NO.  
24007

DRAWING ISSUED DATE:  
10/09/24

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PREMIER ARCHITECTURE

DESIGN AND BUILD

PADB Project No.: 24007



- PART 1 GENERAL**
- 1.01 SUBMITTALS**
- A. Product Data: Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.
- B. Shop Drawings: Indicate tile layout, patterns, color arrangement, perimeter conditions, junctions with dissimilar materials, control and expansion joints, thresholds, ceramic accessories, and setting details.
- PART 2 PRODUCTS**
- 2.01 TILE**
- A. Manufacturers: All products by the same manufacturer.
- B. Ceramic Mosaic Tile: ANSI A137.1 standard grade.
1. Color(s): As indicated on drawings.
- C. Ceramic Glazed Wall Tile, Type WT3: ANSI A137.1 standard grade.
1. Size: Scheduled on drawings
2. Color(s): As indicated on drawings.
3. Pattern: As indicated on drawings..
- D. Porcelain Tile, Type WT1, WT2, F2 & F4: ANSI A137.1 standard grade.
1. Size: As Scheduled on the drawings
2. Color(s): As indicated on drawings.
3. Pattern: As indicated on drawings. .
- 2.02 TRIM AND ACCESSORIES**
- A. Ceramic Trim: Matching bullnose, double bullnose, cove base, and cove ceramic shapes in sizes coordinated with field tile, unless noted otherwise on the Finish Schedules.
- B. Non-Ceramic Trim: Satin brass anodized extruded aluminum, style and dimensions to suit application, set with tile mortar or adhesive, unless noted otherwise on the Finish Schedules.
- 2.03 SETTING MATERIALS**
- A. Provide setting and grout materials from same manufacturer.
- 2.04 GROUTS**
- A. Provide setting and grout materials from same manufacturer.
- PART 3 EXECUTION**
- 3.01 INSTALLATION - GENERAL**
- A. Install tile, thresholds, and stair treads and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.20, manufacturer's instructions, and TCNA (HB) or TCNA (HB-GP) recommendations, as applicable.
- B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings.
- 3.02 INSTALLATION - FLOORS - THIN-SET METHODS**
- A. Over interior concrete substrates, install in accordance with TCNA (HB) Method F113, dry-set or latex-Portland cement bond coat, with standard grout, unless otherwise indicated.
- 3.03 INSTALLATION - SHOWERS AND BATHTUB WALLS**
- A. At tiled shower receptors install in accordance with TCNA (HB) Method B415, mortar bed floor, and W244, thin-set over cementitious backer unit walls.
- B. Grout with standard grout as specified above.
- 3.04 INSTALLATION - WALL TILE**
- A. Over cementitious backer units on studs, install in accordance with TCNA (HB) Method W244, using membrane at toilet rooms.
- B. Over gypsum wallboard on wood or metal studs install in accordance with TCNA (HB) Method W243, thin-set with dry-set or latex-Portland cement bond coat, unless otherwise indicated.
- C. Over wood studs without backer install in accordance with TCNA (HB) Method W231, mortar bed, with membrane where indicated.

**SECTION 09 5100**  
**ACOUSTICAL CEILINGS - USG**

- PART 1 GENERAL**
- 1.01 SUBMITTALS**
- A. Shop Drawings: Indicate grid layout and related dimensioning.
- B. Product Data: Provide data on suspension system components and acoustical units.
- PART 2 PRODUCTS**
- 2.01 CEILING ASSEMBLIES**
- A. Refer to Room Finish Schedule and Reflected Ceiling Plans on drawings for additional ceiling assembly information.
- B. Acoustical Ceiling Assembly Type ACT-1:
1. Acoustical Units: Armstrong - Ultima Lay-in Square - Item No. 1900
- a. Panel Size: 24 inches by 24 inches (2 by 2) panel (609.6 mm by 609.6 mm).
- b. Panel Edge: SQ edge.
- c. Color: Flat White.
2. Suspension Grid: Armstrong 15/16 Prelude XL (No. 1356)
- C. Acoustical Ceiling Assembly Type ACT-2:
1. Acoustical Units: Armstrong Clean Room VL - Item No 868
- a. Panel Size: 24 inches by 24 inches (2 by 2) panel (610 mm by 610 mm).
- b. Panel Edge: SQ edge.
- c. Color: Flat White.
2. Suspension Grid: Armstrong 15/16 Prelude XL (No. 1356)
- 2.02 CEILING COMPONENT PRODUCTS**
- A. Suspension Systems:
1. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with wall angles and moldings, curtain pockets, and splices as required.
2. Exposed Suspension System: Stainless steel grid and cap.
- a. Structural Classification: Light-duty, when tested in accordance with ASTM C635/C635M.
- b. Profile: Tee; 15/16 inch (24 mm) face width.
- c. Finish: Manufacturer's standard polished finish.
- d. Accessories: Quick-release clips.
- e. Products:
- B. Moldings and Trim:
1. Edge Molding, Expansion Joints, and Splices - General: Same material, thickness, and finish as metal pan panels, unless otherwise indicated.
2. Perimeter Wall Moldings: Same metal and finish as grid.
- a. Size: As required for installation conditions.
- b. Acoustical Sealant For Perimeter Moldings: Nonhardening, nonskinning, for use in conjunction with suspended ceiling system.
3. Trim Accessories: Manufacturer's standard clips, cleats splice plates, extension plates, closure plates, corner pieces, and similar accessories required for a complete installation.
- 2.03 ACCESSORIES**
- A. Support Channels, Carriers, and Hangers: Galvanized steel; size and type to suit application and ceiling system flatness requirement specified.
- B. Suspension Wire: Size and type as required for application, seismic requirements, and ceiling system flatness requirement specified.
1. Concealed Suspension:
- a. Suspension Wire: Steel, annealed, galvanized finish, 12 gauge, 0.0808 (2.05 mm) diameter, complying with ASTM A641/A641M.
- 2.04 FABRICATION**
- A. Shop fabricate ceiling components to the greatest extent possible.
- PART 3 EXECUTION**
- 3.01 PREPARATION**
- A. Coordinate the location of hangers with other work.

- B. Install ceiling system after major above-ceiling work is complete.
- C. Acclimate wood ceiling materials by removing from packaging in installation area a minimum of 72 hours prior to installation.
- 3.02 INSTALLATION - SUSPENSION SYSTEM**
- A. Install suspension system in accordance with ASTM C636/C636M and manufacturer's instructions and as supplemented in this section.
- B. Install hangers and inserts coordinated with overhead work. Provide additional hangers and supports as required.
- C. Seismic Suspension System, Seismic Design Category C: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Maintain a 3/8 inch (9 mm) clearance between grid ends and wall.
- D. Where ducts, facility services, or equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- E. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- F. Support fixture loads using supplementary hangers located within 6 inches (152 mm) of each corner, or support components independently.
- G. Do not eccentrically load system or induce rotation of runners.
- H. Edge Moldings: Install at intersection of ceiling and vertical surfaces and penetrations, using components of maximum length; set level. Provide edge moldings at junction with other ceiling finishes. Miter corners. Provide preformed edge closures to match bullnosed cornered partitions.
- 3.03 INSTALLATION - ACOUSTICAL UNITS**
- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Where round obstructions occur, provide preformed closures to match perimeter molding.

**SECTION 09 9113**  
**EXTERIOR PAINTING**

- PART 1 GENERAL**
- 1.01 SUBMITTALS**
- A. Product Data: Provide complete list of products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
2. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
- B. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.
1. Where sheen is specified, submit samples in only that sheen.
- PART 2 PRODUCTS**
- 2.01 MANUFACTURERS**
- A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.
- B. Paints:
1. Sherwin-Williams Company: www.sherwin-williams.com
- C. Primer Sealers: Same as manufactured as top coats.
- 2.02 PAINTS AND FINISHES - GENERAL**
- A. Paints and Finishes: Ready-mixed, unless required to be a field-catalyzed paint.
1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Supply each paint material in quantity required to complete entire project's work from a single production run.
3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is described explicitly in manufacturer's product instructions.
- 2.03 PAINT SYSTEMS - EXTERIOR**
- A. EX11 Exterior Surfaces to be Painted, Unless Otherwise Indicated: Including concrete, concrete masonry units, brick, fiber cement siding, primed wood, primed metal, and metal doors/frames.
1. Two top coats and one coat primer.
2. Top Coat(s): Color Indicated on Drawings.
- 2.04 PRIMERS**
- A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.
- PART 3 EXECUTION**
- 3.01 PREPARATION**
- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.
- D. Seal surfaces that might cause bleed through or staining of topcoat.
- E. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- F. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.
- 3.02 APPLICATION**
- A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- C. Apply each coat to uniform appearance.
- SECTION 09 9123**  
**INTERIOR PAINTING**
- PART 1 GENERAL**
- 1.01 SUBMITTALS**
- A. Product Data: Provide complete list of products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g., "alkyd enamel").
2. Cross-reference to specified paint system products to be used in project; include description of each system.
- B. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.
1. Where sheen is specified, submit samples in only that sheen.
- PART 2 PRODUCTS**
- 2.01 MANUFACTURERS**
- A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.
- B. Paints:
1. Sherwin-Williams Company: www.sherwin-williams.com/#sle.
- C. Primer Sealers: Same manufacturer as top coats.
- 2.02 PAINTS AND FINISHES - GENERAL**
- A. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.
1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow

- and brushing properties, and capable of drying or curing free of streaks or sags.
2. Supply each paint material in quantity required to complete entire project's work from a single production run.
3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
- B. Colors: As indicated on drawings.
- 2.03 PRIMERS**
- A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.
- PART 3 EXECUTION**
- 3.01 PREPARATION**
- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.
- D. Seal surfaces that might cause bleed through or staining of topcoat.
- 3.02 APPLICATION**
- A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- C. Apply each coat to uniform appearance in thicknesses specified by manufacturer.
- D. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- E. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

**SECTION 10 2800**  
**TOILET, BATH, AND LAUNDRY ACCESSORIES**

- PART 1 GENERAL**
- 1.01 SUBMITTALS**
- A. Product Data: Submit data on accessories describing size, finish, details of function, and attachment methods.
- PART 2 PRODUCTS**
- 2.01 COMMERCIAL TOILET ACCESSORIES**
- A. Toilet Paper Dispenser: Double roll, surface mounted, for coreless type rolls.
- B. Paper Towel Dispenser: Electric, roll paper type.
1. Cover: Stainless steel.
2. Paper Discharge: Touchless automatic.
3. Capacity: 6 inch diameter roll.
4. Mounting: Semi recessed.
5. Power: Battery operated.
6. Refill Indicator: Illuminated refill indicator.
- C. Automated Soap Dispenser: Liquid soap dispenser, wall-mounted, with stainless steel cover and window to gauge soap level, tumbler lock.
- D. Air Freshener Dispenser: Wall-mounted, battery operated.
- E. Mirrors: Stainless steel framed, 1/4 inch (6 mm) thick annealed float glass; ASTM C1036.
- F. Grab Bars: Stainless steel, smooth surface.
1. Standard Duty Grab Bars:
- a. Push/Pull Point Load: 250 pound-force (1112 N), minimum.
- b. Dimensions: 1-1/4 inch (32 mm) outside diameter, minimum 0.05 inch (1.3 mm) wall thickness, exposed flange mounting, 1-1/2 inch (38 mm) clearance between wall and inside of grab bar.
- c. Length and Configuration: As indicated on drawings.
- 2.02 COMMERCIAL SHOWER AND BATH ACCESSORIES**
- A. Shower Curtain Rod: Stainless steel tube, 1 inch (25 mm) outside diameter, 0.04 inch (1.0 mm) wall thickness, satin-finished, with 3 inch (75 mm) outside diameter, minimum 0.04 inch (1.0 mm) thick satin-finished stainless steel flanges, for installation with exposed fasteners.
- B. Shower Curtain:
1. Material: Opaque vinyl, 0.008 inch (0.2 mm) thick, matte finish, with antibacterial treatment, flameproof and stain-resistant.
2. Grommets: Stainless steel; pierced through top hem on 6 inch (150 mm) centers.
3. Color: White.
- 2.03 DIAPER CHANGING STATIONS**
- A. Diaper Changing Station: Wall-mounted folding diaper changing station for use in commercial toilet facilities, meeting or exceeding ASTM F2285.
1. Material: Polyethylene.
2. Mounting: Surface.
- PART 3 EXECUTION**
- 3.01 INSTALLATION**
- A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.
- B. Install plumb and level, securely and rigidly anchored to substrate.
- C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.
- SECTION 10 4400**  
**FIRE PROTECTION SPECIALTIES**
- PART 1 GENERAL**
- 1.01 SUBMITTALS**
- A. Product Data: Provide extinguisher operational features.
- B. Shop Drawings: Indicate locations of cabinets and cabinet physical dimensions.
- PART 2 PRODUCTS**
- 2.01 MANUFACTURERS**
- A. Fire Extinguishers:
1. Activar Construction Products Group, Inc. - J.L. Industries: www.activarcpg.com.
- B. Fire Extinguisher Cabinets and Accessories:
1. Activar Construction Products Group, Inc. - J.L. Industries: www.activarcpg.com
- 2.02 FIRE EXTINGUISHERS**
- A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever codes, whichever is more stringent.
1. Provide extinguishers labeled by UL (DIR) or FM (AG) for purpose specified and as indicated.
2. Provide inspections tags Complaint to local codes and regulations
- B. Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge.
1. Class: A:B:C type.
2. Size: 10 pound (4.54 kg).
3. Temperature range: Minus 40 degrees F (Minus 40 degrees C) to \_\_\_\_ degrees F (\_\_\_\_ degrees C).
- C. Carbon Dioxide Type Fire Extinguishers: Aluminum tank, with pressure gauge.
1. Class: B:C type.
2. Size and classification as scheduled.
3. Temperature range: Minus 40 degrees F (Minus 40 degrees C) to 120 degrees F (49 degrees C).
- D. Dry Chemical Type Fire Extinguishers: Stainless steel tank, with pressure gauge.
1. Class: K type.

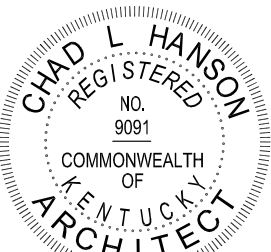
2. Size: 1.6 gallons (6 L).
3. Finish: Polished stainless steel.
4. Temperature range: Minus 20 degrees F (Minus 29 degrees C) to 120 degrees F (49 degrees C).
- 2.03 FIRE EXTINGUISHER CABINETS**
- A. Cabinet Configuration: Recessed type.
1. Size to accommodate accessories.
- B. Door: 0.036 inch (0.9 mm) metal thickness, reinforced for flatness and rigidity with nylon catch. Hinge doors for 180 degree opening with two butt hinges.
- C. Door Glazing: Acrylic plastic, clear, 1/8 inch (3 mm) thick, flat shape and set in resilient channel glazing gasket.
- D. Cabinet Mounting Hardware: Appropriate to cabinet, with pre-drilled holes for placement of anchors.
- 2.04 ACCESSORIES**
- A. Extinguisher Brackets: Formed steel, chrome-plated.
- B. Lettering: "FIRE EXTINGUISHER" decal, or vinyl self-adhering, prespaced black lettering in accordance with authorities having jurisdiction (AHJ).
- C. Floor Signs:
1. Floor Sign: 17-1/2 inch (445 mm) diameter vinyl sign with "DO NOT BLOCK FIRE EXTINGUISHER", directional arrow, and fire extinguisher icon.
- D. Floor Marking Kits:
1. Floor Marking Tape for Extinguisher Access Identification: Self-adhesive vinyl or polyester tape with overlaminates, 2 inches (51 mm) wide, with "DO NOT BLOCK" on the 36 inch (914 mm) side strips and "FIRE EXTINGUISHER" and fire extinguisher icon on the 24 inch (610 mm) middle strip.
- PART 3 EXECUTION**
- 3.01 INSTALLATION**
- A. Install in accordance with manufacturer's instructions.

**SECTION 10 7316.13**  
**METAL CANOPIES**

- PART 1 GENERAL**
- 1.01 SUBMITTALS**
- A. Product Data: Submit product data sheets, including material descriptions and finishes, and preparation instructions and recommendations.
- B. Shop Drawings: Prior to commencement of fabrication, submit detailed shop drawings, showing profiles, sections of components, finishes, and fastening details.
- C. Design Data: Submit comprehensive structural analysis of design for the specified loads. Stamp and sign calculations by professional engineer.
- PART 2 PRODUCTS**
- 2.01 METAL CANOPIES**
- A. Shop Fabricated Steel Canopy Type: As indicated on the drawings. .
- B. Shop Fabricated Aluminum Canopy Type: As indicated on the drawings. .
- C. Performance Requirements:
1. Design and fabricate metal canopy system to resist wind, snow, live, and seismic loads without failure, damage, or permanent deflection in accordance with ASCE 7.
- PART 3 EXECUTION**
- 3.01 INSTALLATION - FRAMING**
- A. Provide for erection and wind loads. Provide temporary bracing to maintain structure plumb and in alignment until completion of erection and installation.
- B. Set column base plates with non-shrink grout to achieve full plate bearing.
- C. Fasten columns to anchor bolts.
- 3.02 INSTALLATION - CANOPY COVERING**
- A. Install in accordance with manufacturer's instructions.
- B. Fasten metal decking to metal support members, aligned level and plumb.
- C. Install fascia panels, trim, and flashing.

ISSUED FOR

Construction Documents



Acee's Truck Stop  
Fulton, Kentucky

Non-Reduced Sheet Size: 24" x 36" <small>Full size plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.</small>	
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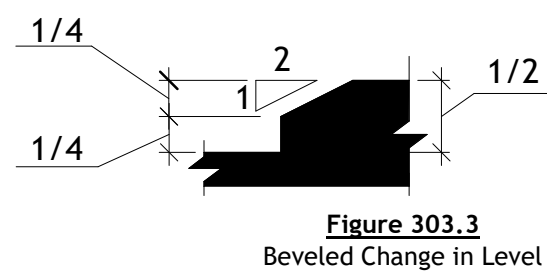
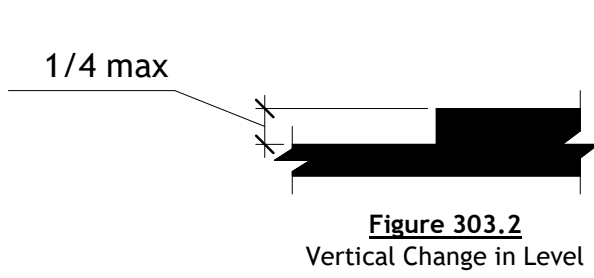
Architectural  
Specifications

PROJECT NO.  
24007  
DRAWING ISSUED DATE:  
10/09/24  
SHEET

G104



Note:  
Changes In Level Grater Than 1/2" Shall Be By Means Of A Ramp.



## Change in Level

1 SCALE: NOT TO SCALE

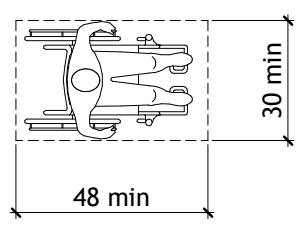


Figure 305.3  
Clear Floor or Ground Space

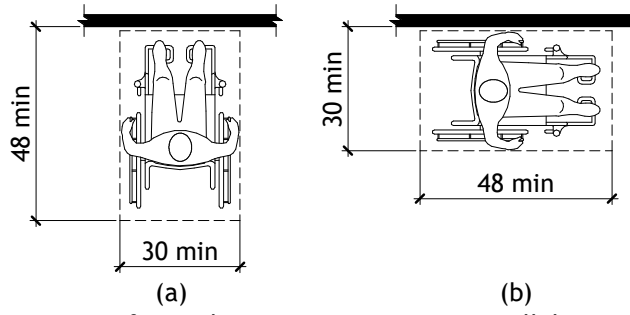


Figure 305.5  
Position of Clear Floor or Ground Space

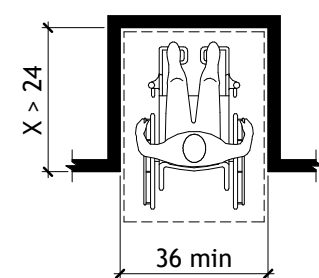


Figure 305.7.1  
Maneuvering Clearance in an Alcove, Forward Approach

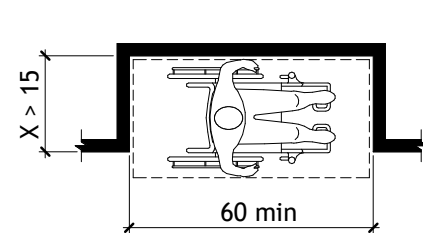


Figure 305.7.2  
Maneuvering Clearance in an Alcove, Parallel Approach

## Clearance or Ground Space

5 SCALE: NOT TO SCALE

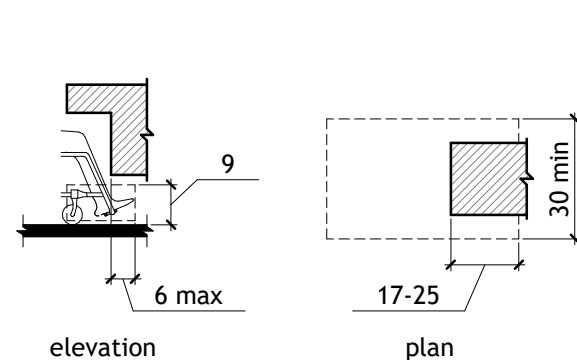


Figure 306.2  
Toe Clearance

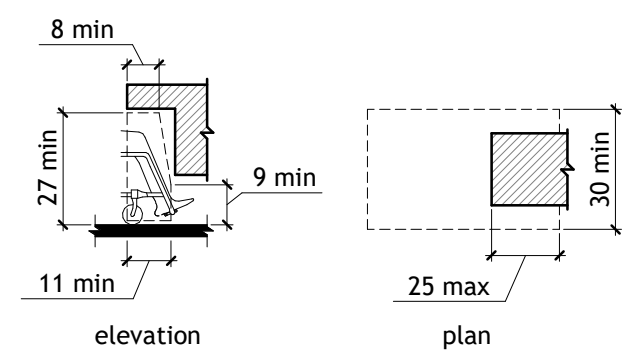
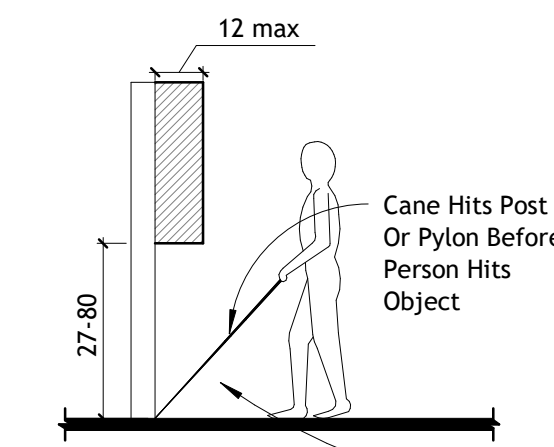
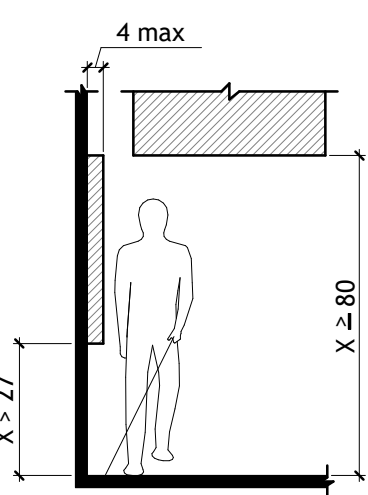
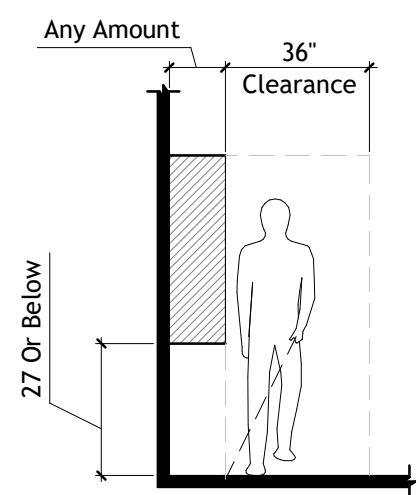


Figure 306.3  
Knee Clearance

## Toe and Knee Clearance

9 SCALE: NOT TO SCALE



Objects Mounted On Post Or Pylons

Walking Perpendicular To A Wall

Figure 307.2

## Limits of Protruding Objects

13 SCALE: NOT TO SCALE

## Post-Mounted Objects

2 SCALE: NOT TO SCALE

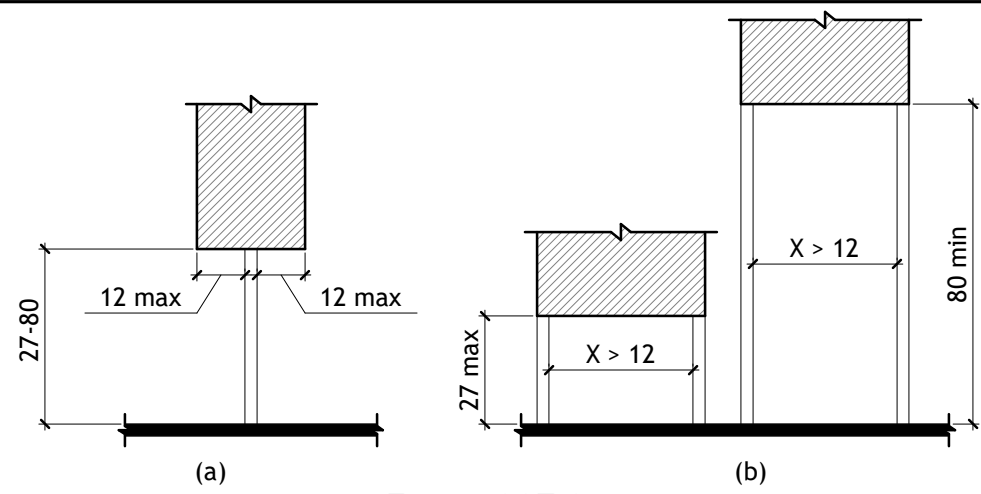


Figure 307.3

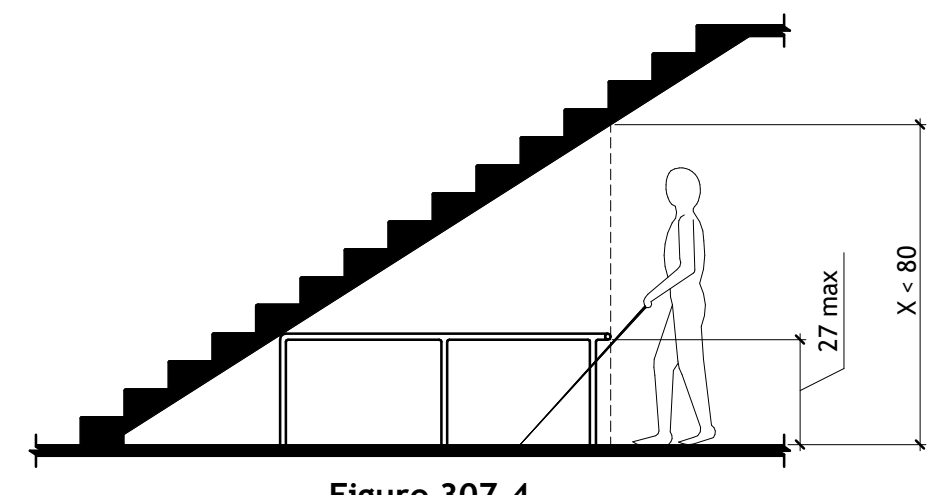


Figure 307.4

## Vertical Clearance

6 SCALE: NOT TO SCALE

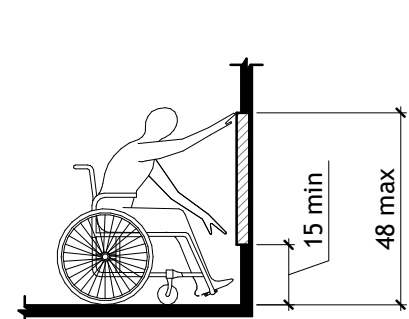


Figure 308.2.1  
Unobstructed Forward Reach

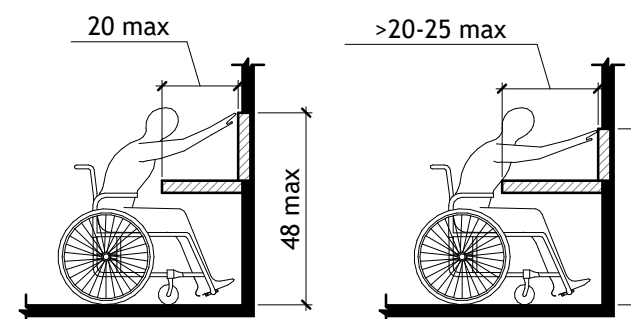


Figure 308.2.2  
Obstructed High Forward Reach

## Forward Reach

10 SCALE: NOT TO SCALE

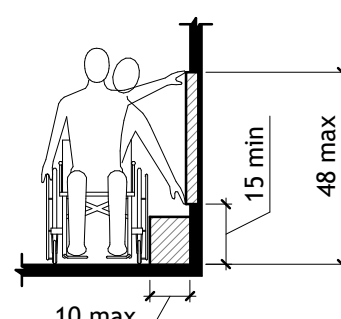


Figure 308.3.1  
Unobstructed Side Reach

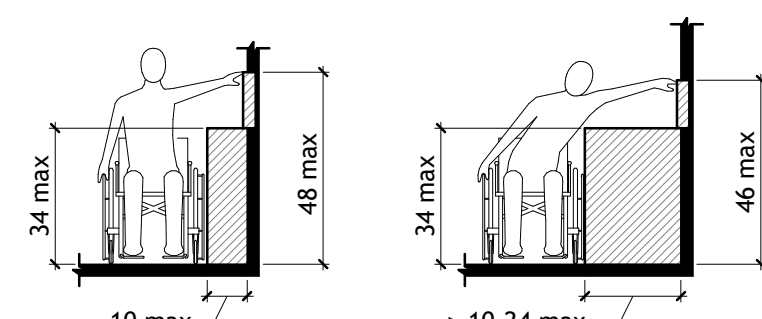


Figure 308.3.2  
Obstructed High Side Reach

## Side Reach

11 SCALE: NOT TO SCALE

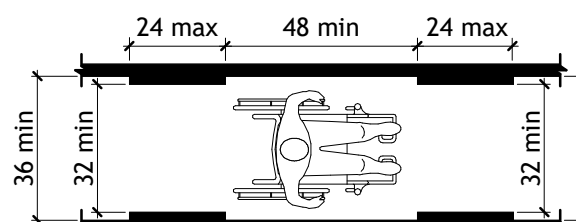
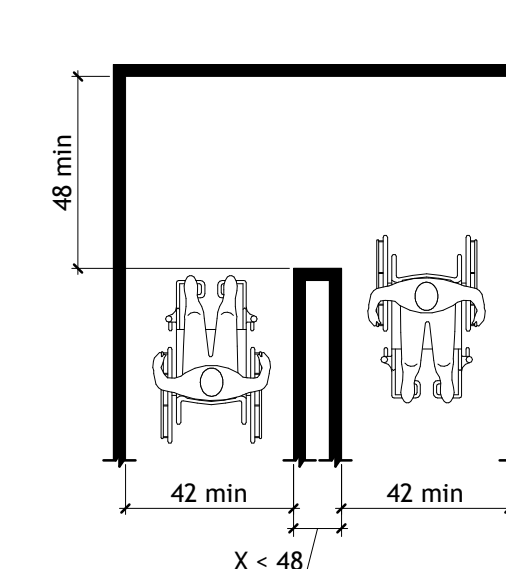
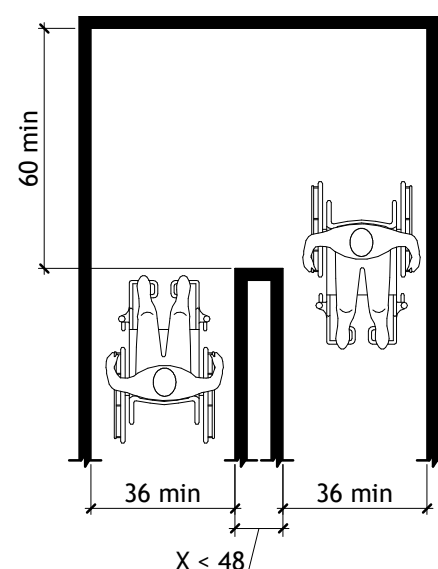


Figure 403.5.1  
Clear Width of an Accessible Route



(a) 180 degree turn



(b) 180 degree turn (Exception)

## Clear Width

14 SCALE: NOT TO SCALE

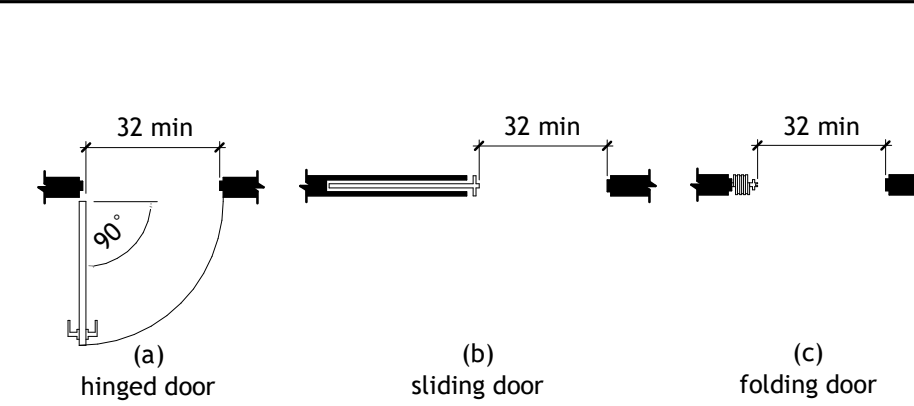
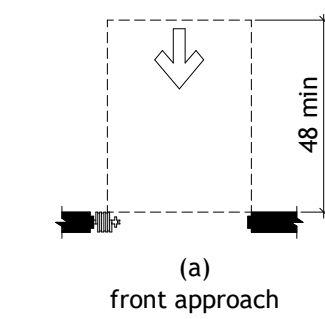


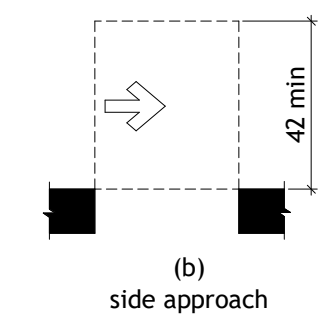
Figure 404.2.3

## Clear Width of Doorways

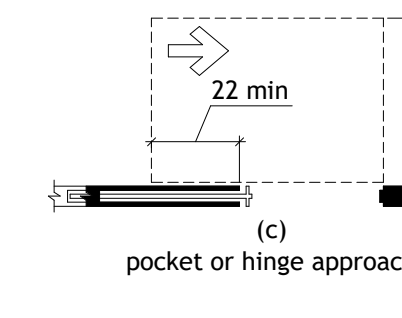
3 SCALE: NOT TO SCALE



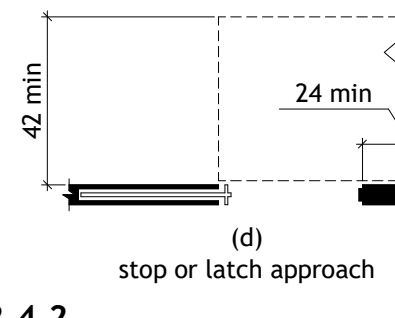
(a) front approach



(b) side approach



(c) pocket or hinge approach

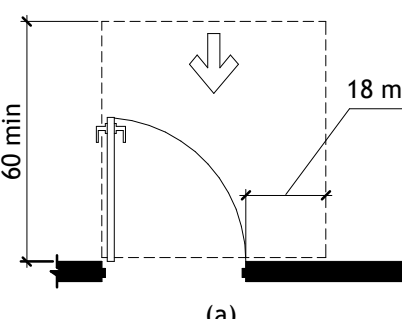


(d) stop or latch approach

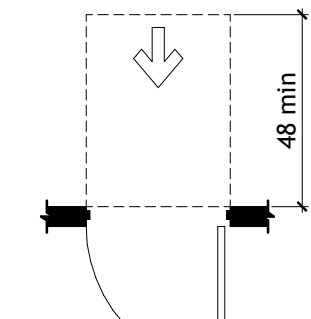
Figure 404.2.4.2

## Maneuvering Doorways without Doors

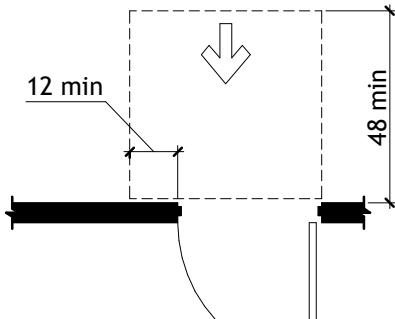
7 SCALE: NOT TO SCALE



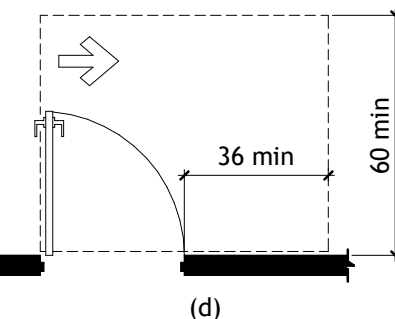
(a) front approach, pull side



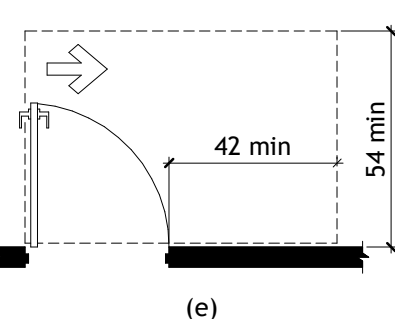
(b) front approach, push side



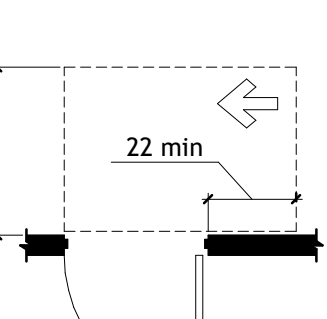
(c) front approach, push side, door provided with both closer and latch



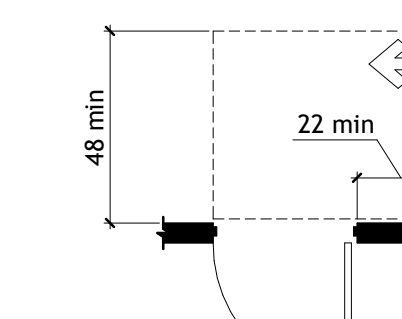
(d) hinge approach, pull side



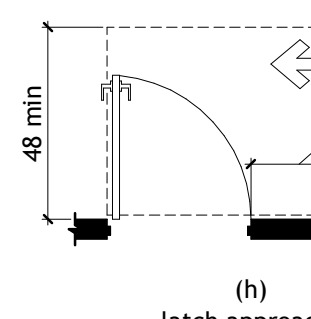
(e) hinge approach, pull side



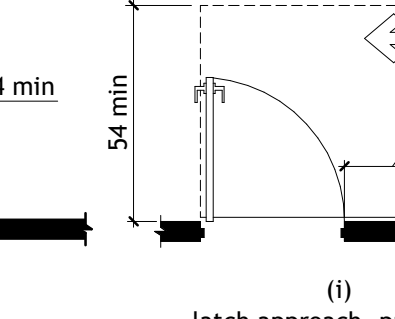
(f) hinge approach, push side



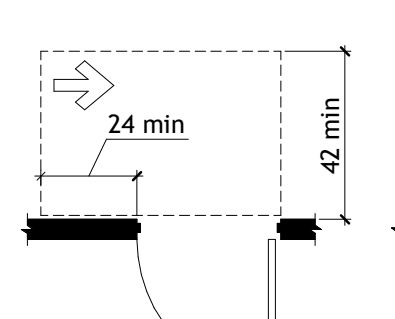
(g) hinge approach, push side, door provided with both closer and latch



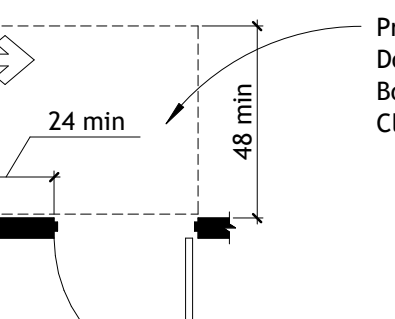
(h) latch approach, pull side



(i) latch approach, pull side, door provided with closer



(j) latch approach, push side

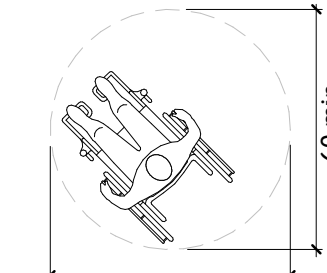


(k) latch approach, push side, door provided with closer

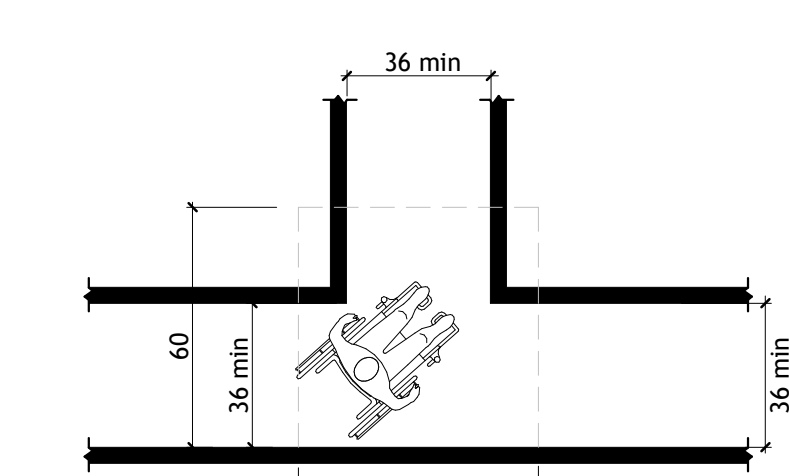
Provide This Space If Door Is Equipped With Both A Latch And A Closer

## Maneuvering Doorways at Doors and Gates

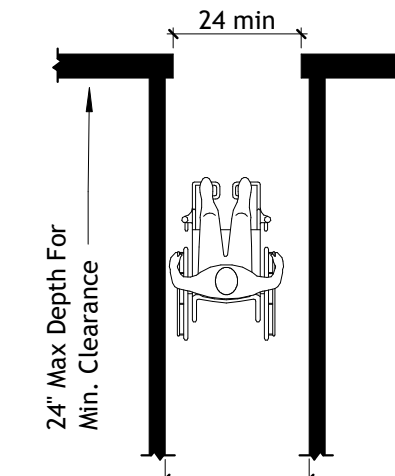
12 SCALE: NOT TO SCALE



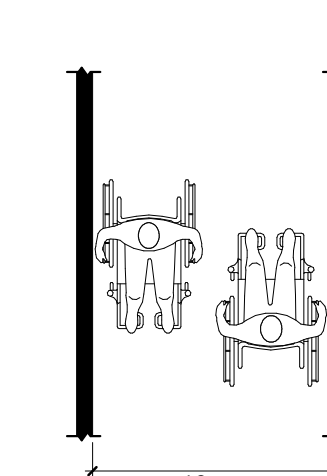
60" Diameter Space



T-Shaped Space For 180 Turns



Minimum Clear Width For Single Wheelchair



Minimum Clear Width For Two Wheelchairs

Figure 404.2.4.1

NO.	DESCRIPTION	DATE	APP.
1	ISSUED FOR		
2	Construction Documents		



**Installation Height and Location:**  
Signs shall be located 48" minimum above finish floor or ground surfaces, measured from the baseline of lowest tactile character and 60" maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

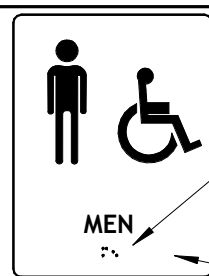
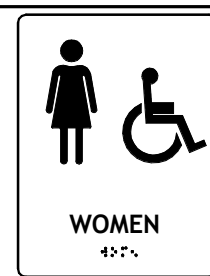
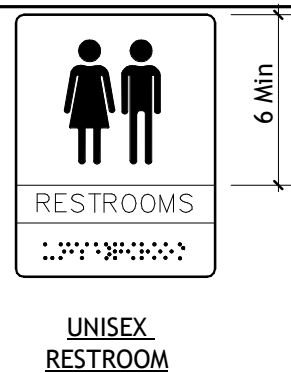
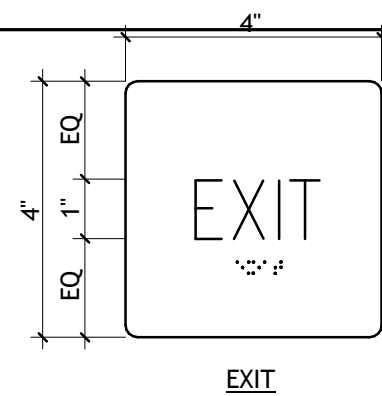
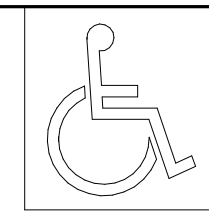


Figure 703.6.1

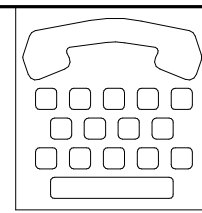
1/8" Radius, Typ.

**703.6.1 Pictogram Field:**  
Character and Braille shall not be located in the pictogram field.

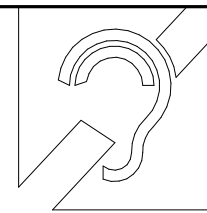
**703.6.2 Finish and Contrast:**  
Pictograms shall have a non-glare finish and shall contrast with either a light or dark field.



Proportions  
International Symbol Of  
Accessibility  
Figure 703.7.2.1



International  
TDD Symbol  
Figure 703.7.2.2



International Symbol Of  
Access For Hearing Loss  
Figure 703.7.2.4

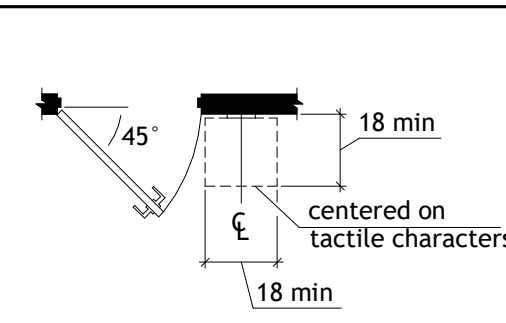


Figure 703.4.2  
Location of Tactile Sign at Doors

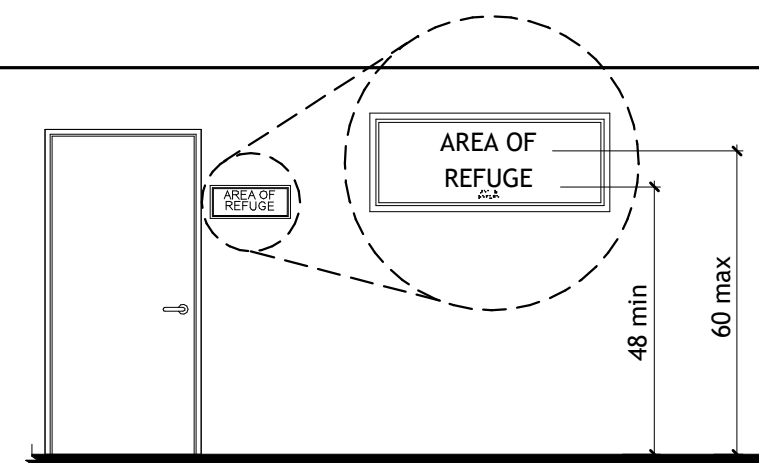


Figure 703.4.1  
Height of Tactile Characters Above Finish Floor or Ground

## Permanent Signs

1 SCALE: NOT TO SCALE

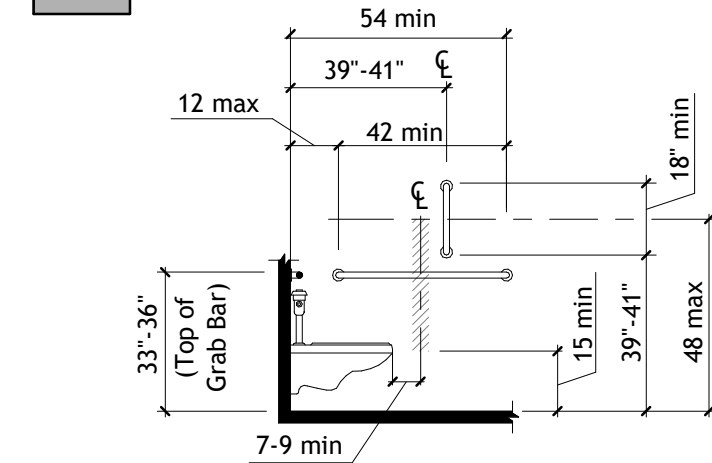


Figure 604.5.1

Side Wall Grab Bar at Water Closet

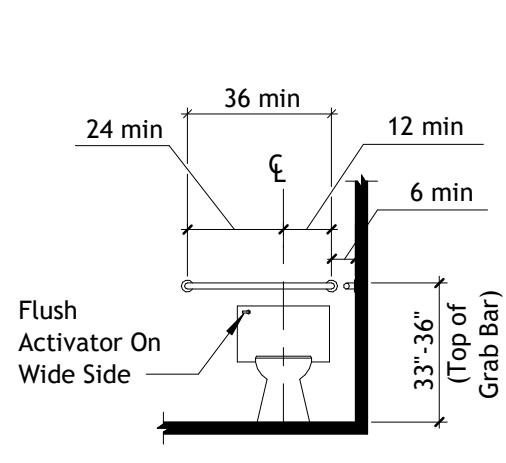


Figure 604.7

Dispenser Outlet Location

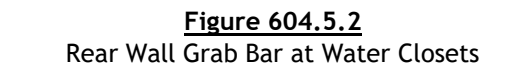


Figure 604.5.2

Rear Wall Grab Bar at Water Closets

Figure 604.51.1  
Side-Wall Grab Bar For Water Closet (ICC A117.1; 2017 Ed.)

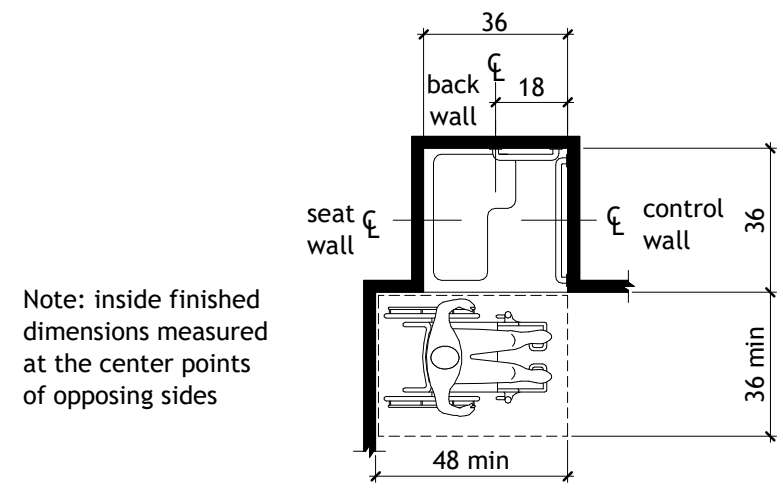


Figure 608.2.1

Transfer Type Shower  
Compartment Size and Clearance

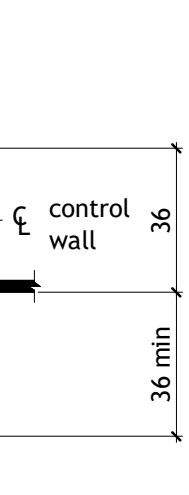


Figure 608.3.1

Grab Bars for Transfer Type Showers

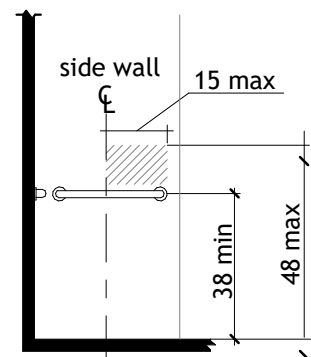


Figure 608.5.1

Transfer Type Shower  
Compartment Control Location

## Grab Bar & Dispenser Location

4 SCALE: NOT TO SCALE

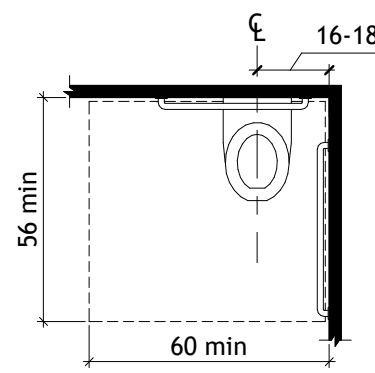
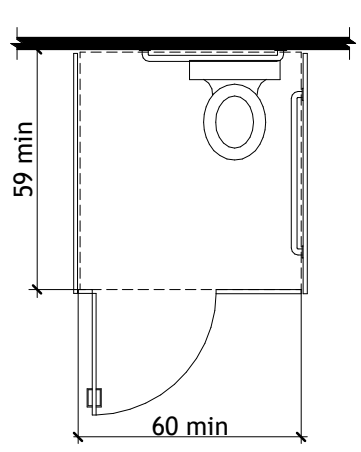


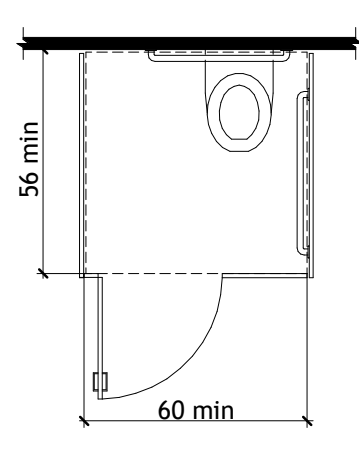
Figure 604.3.1

Size of Clearance at Water Closet



(b)

Floor Mounted Water Closet



(a)

Wall Hung Water Closet

Figure 604.8.1.1  
Size of Wheelchair Accessible Toilet Compartment

## Transfer Type Showers

5 SCALE: NOT TO SCALE

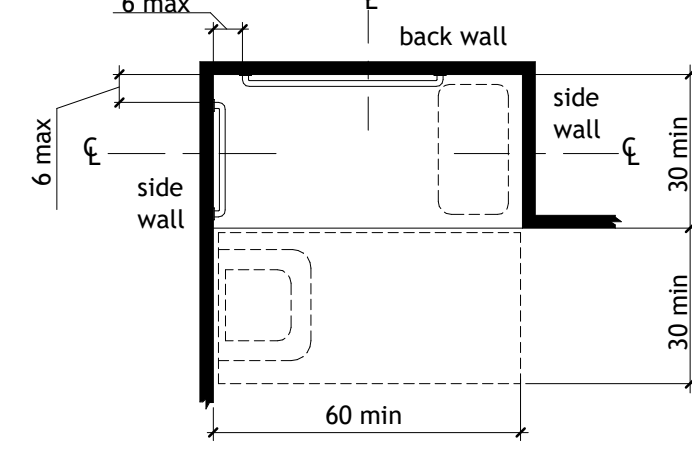


Figure 608.2.2

Standard Roll-In Type Shower  
Compartment Size and Clearance

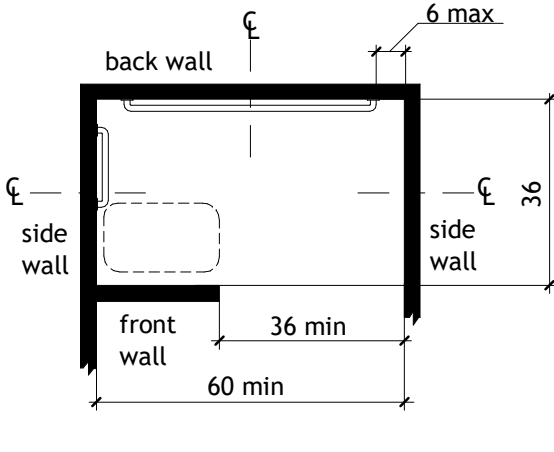


Figure 608.2.3

Alternate Roll-In Type Shower  
Compartment Size and Clearance

Note: Dimensions measured from centerline of opposing sides' material finish

## Height & Depth Of Urinals

6 SCALE: NOT TO SCALE

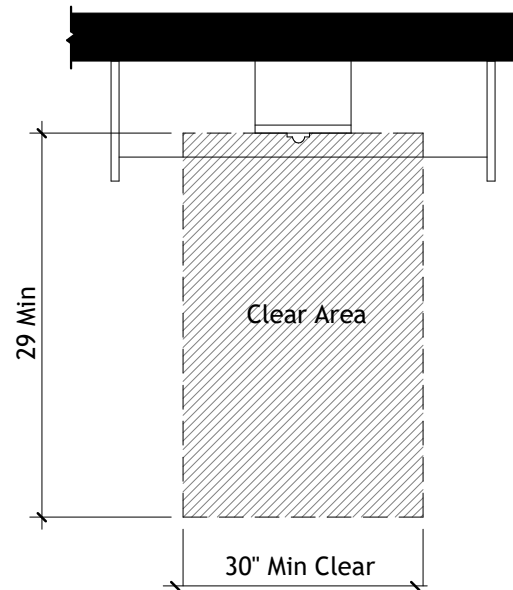


Figure 704.2.1.2

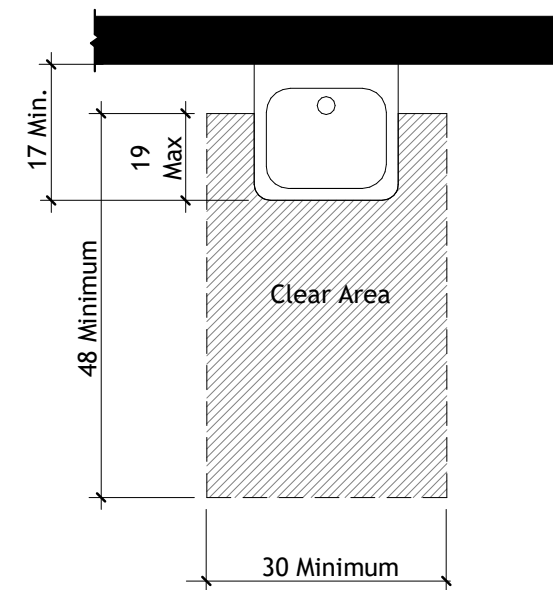
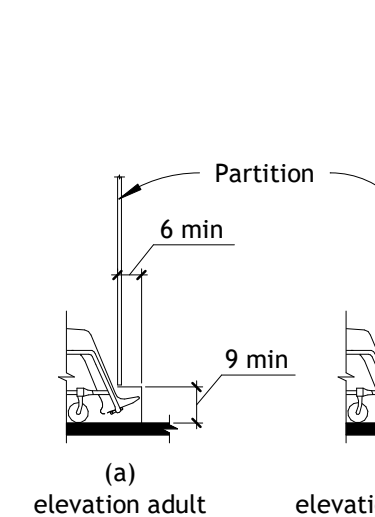


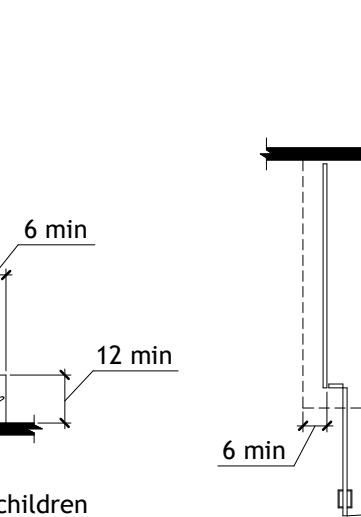
Figure 605.2

## Size of Water Closet

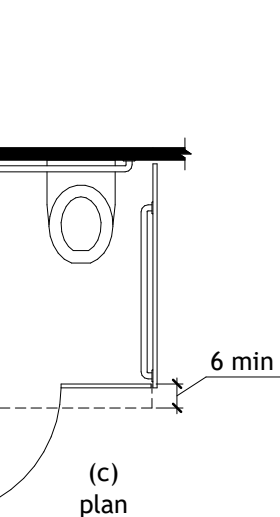
8 SCALE: NOT TO SCALE



(a) elevation adult



(b) elevation children



(c) plan

Figure 604.8.1.4

## Handrail Extensions at Roll-In Shower

9 SCALE: NOT TO SCALE

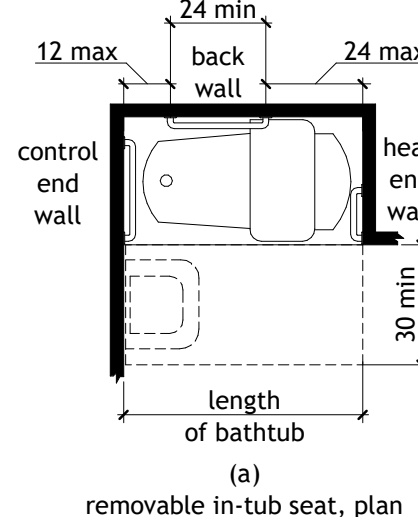


Figure 607.2

Clearance for Bathtubs

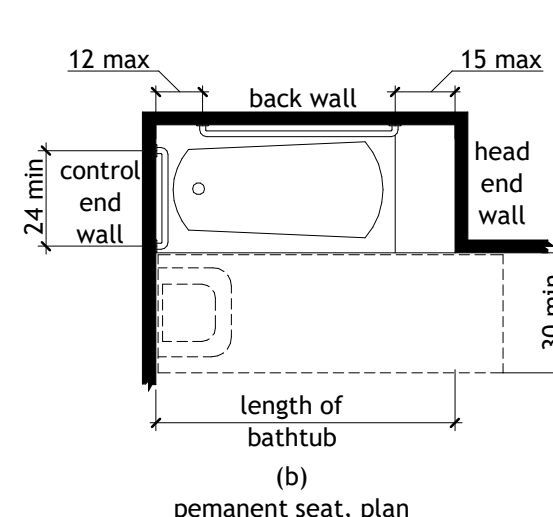


Figure 607.4.1

Grab Bars for Bathtubs with  
Permanent Seats

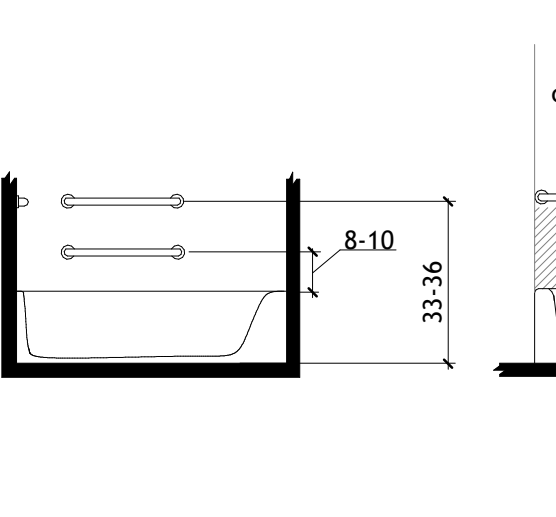
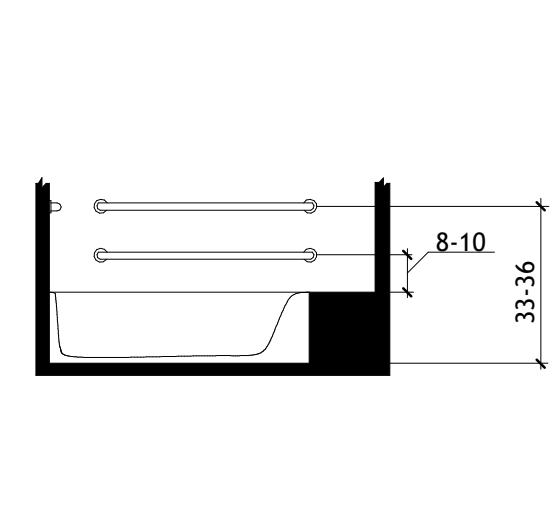


Figure 607.4.2

Grab Bars for Bathtubs with  
Removable In-Tub Seats

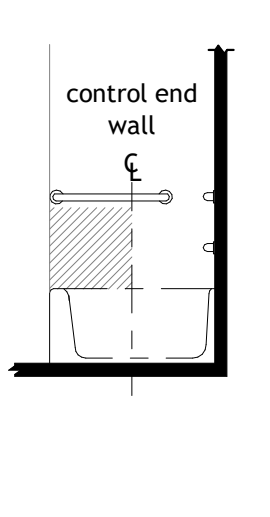


Figure 607.5

Bathtub Control Location

Note: Controls shall be located between the bathtub rim, grab bar, and the centerline of the width of the bathtub.

## Forward Approach Clearance

10 SCALE: NOT TO SCALE

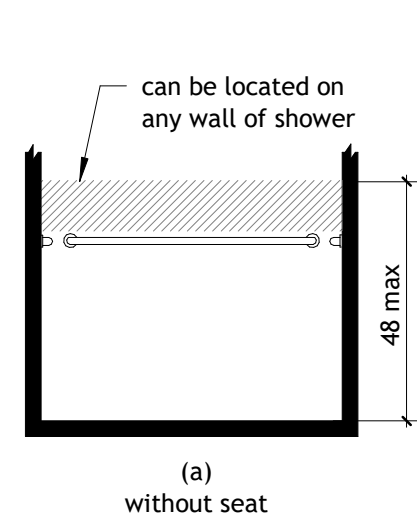


Figure 608.5.2

Standard Roll-In Type Shower Compartment Control Location

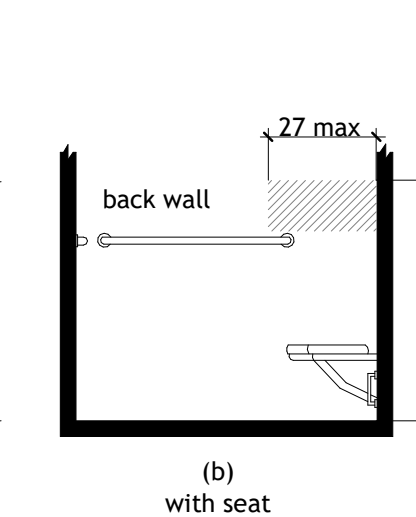


Figure 608.5.3

Alternate Roll-In Type Shower Compartment Control Location

## Handrails & Grab Bar Spacing

11 SCALE: NOT TO SCALE

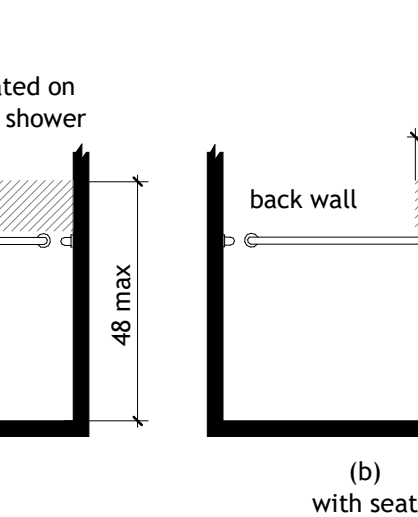


Figure 609.3

Spacing Of Grab Bar

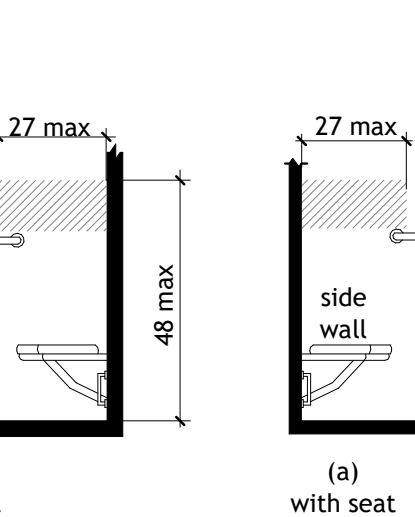
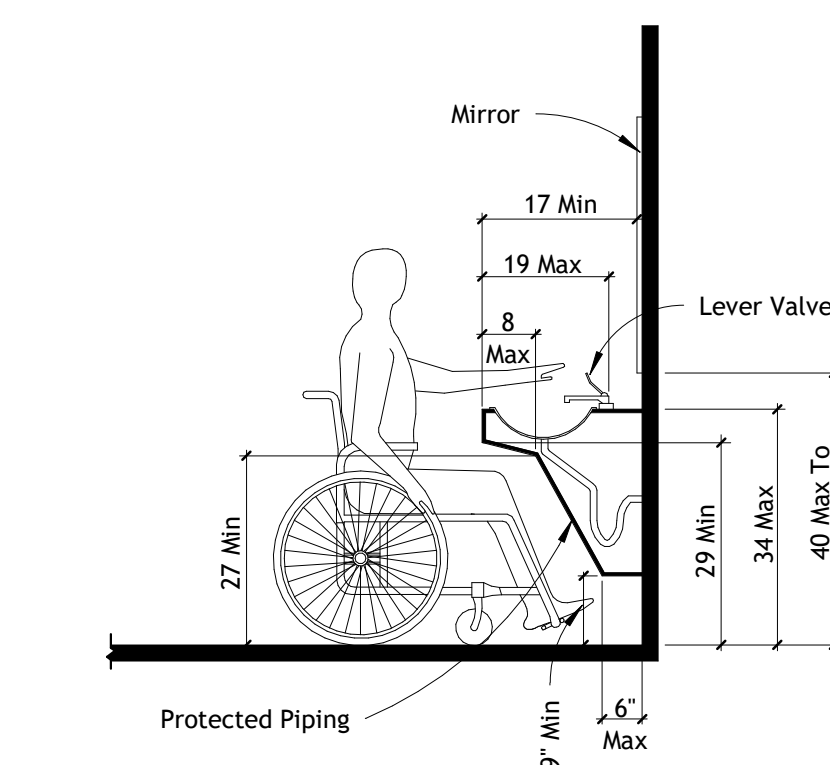


Figure 609.3

Spacing Of Grab Bar

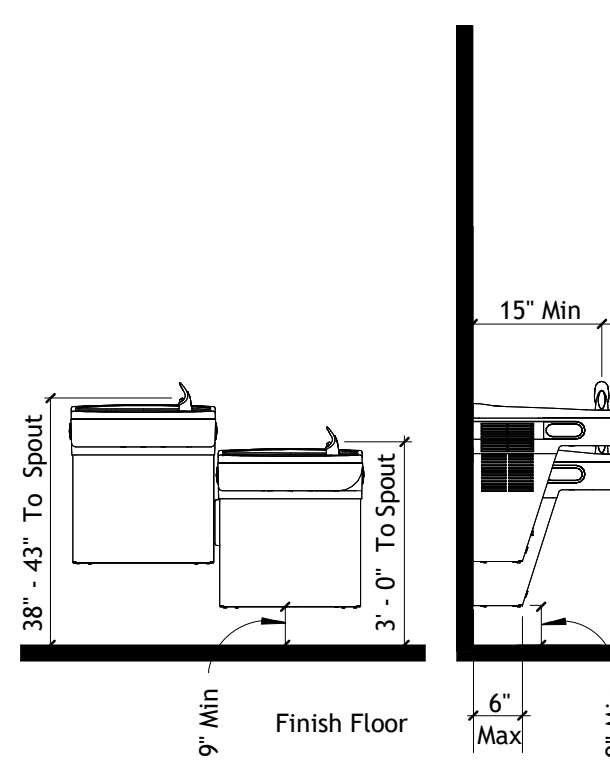
## Toe Clearance At Water Closet

12 SCALE: NOT TO SCALE

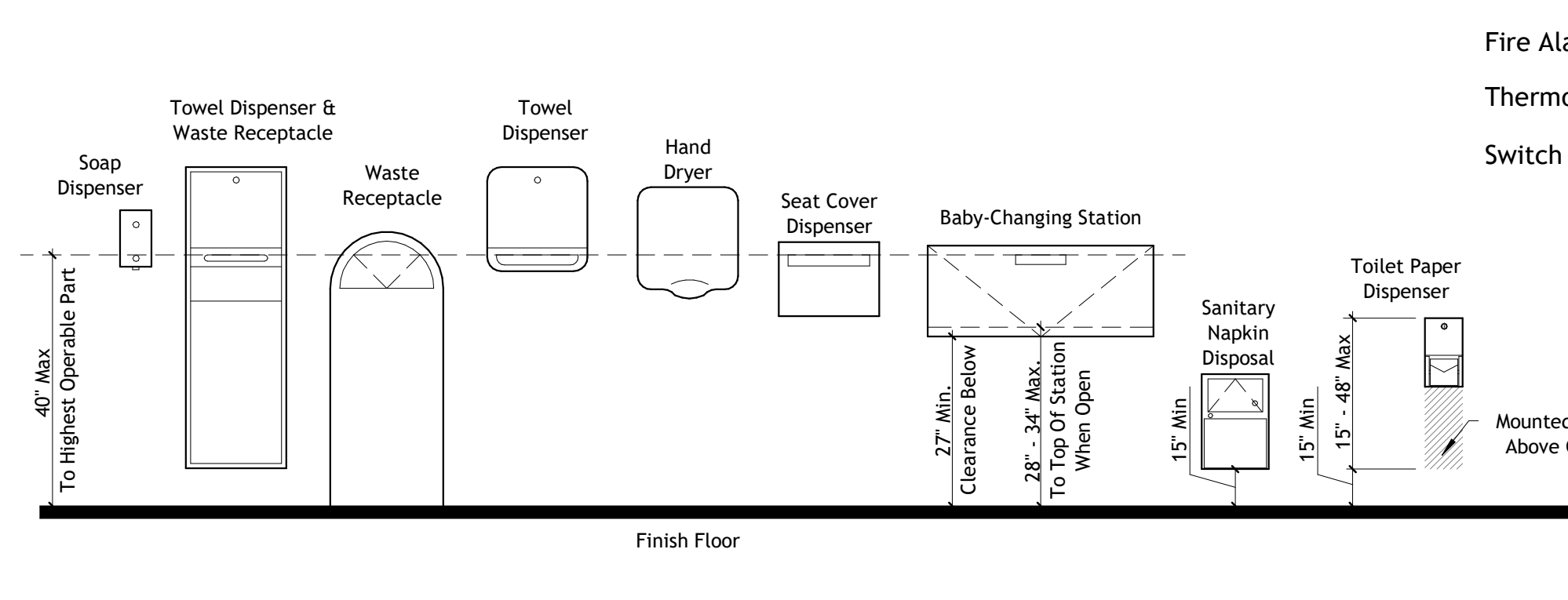


## Clearance & Heights for Bathtubs

13 SCALE: NOT TO SCALE



Section 602.1 & 602.7  
Clearance for Drinking Fountain

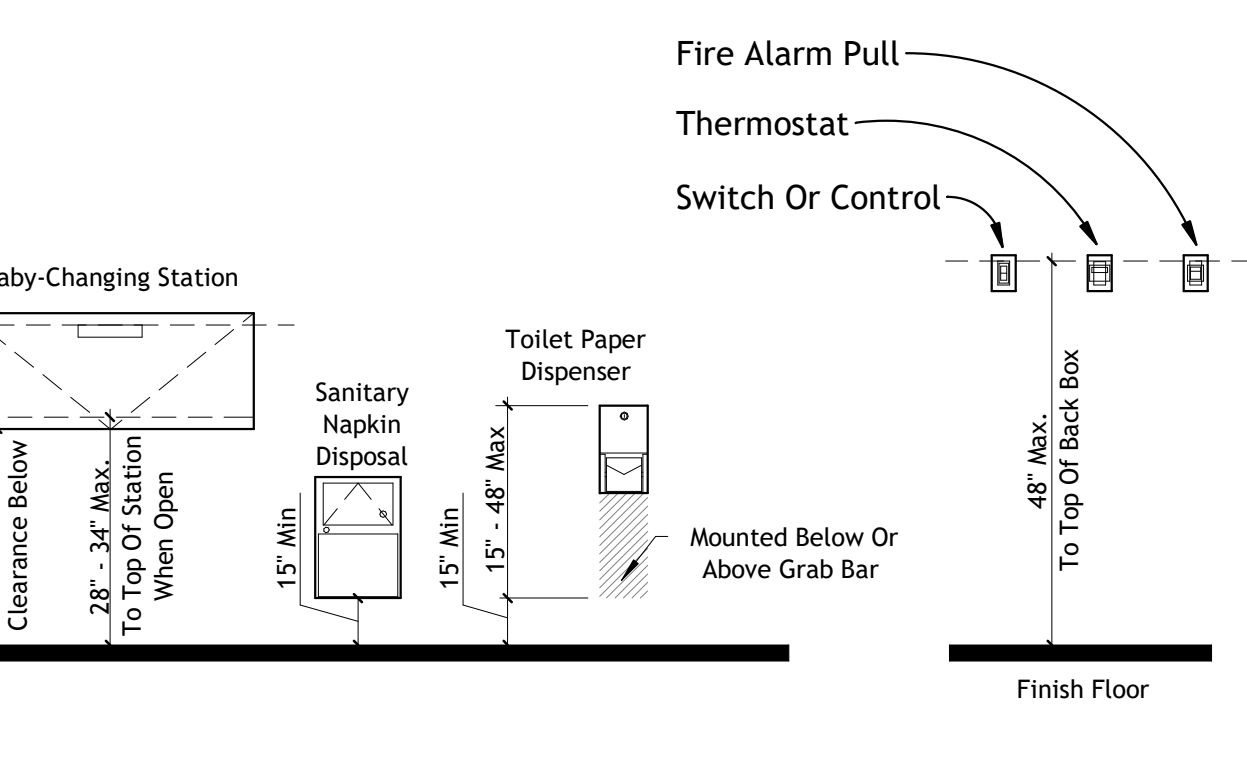


## Sink Protrusion & Clearance

15 SCALE: NOT TO SCALE

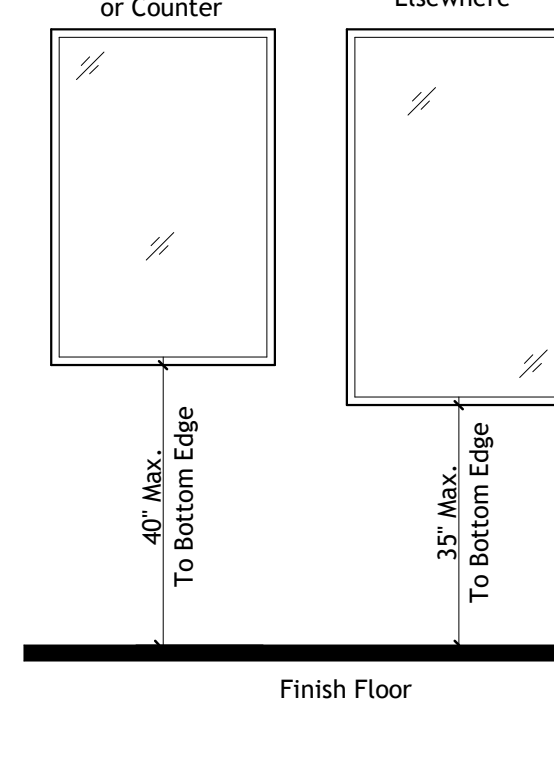
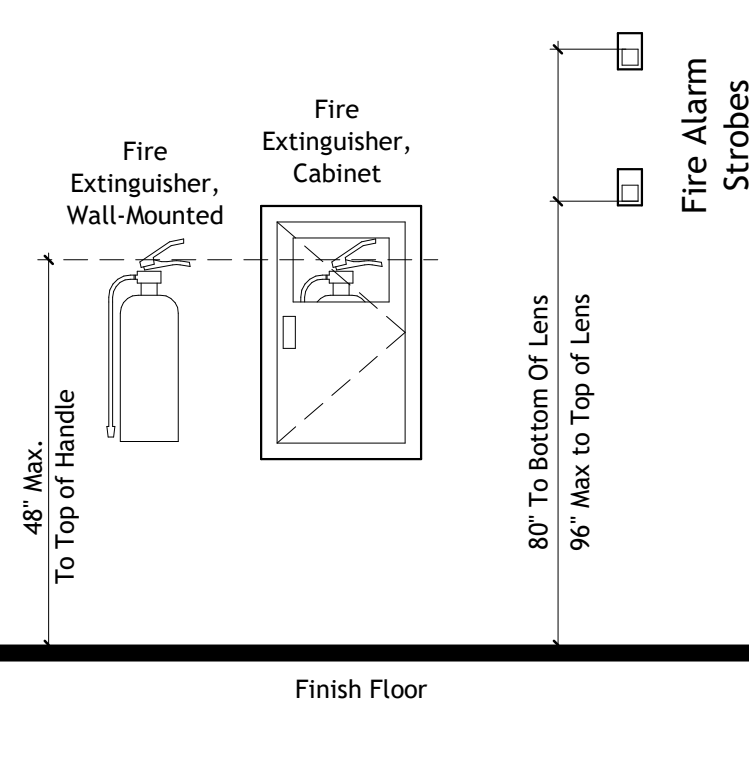
## Mounting Heights

16 SCALE: NOT TO SCALE

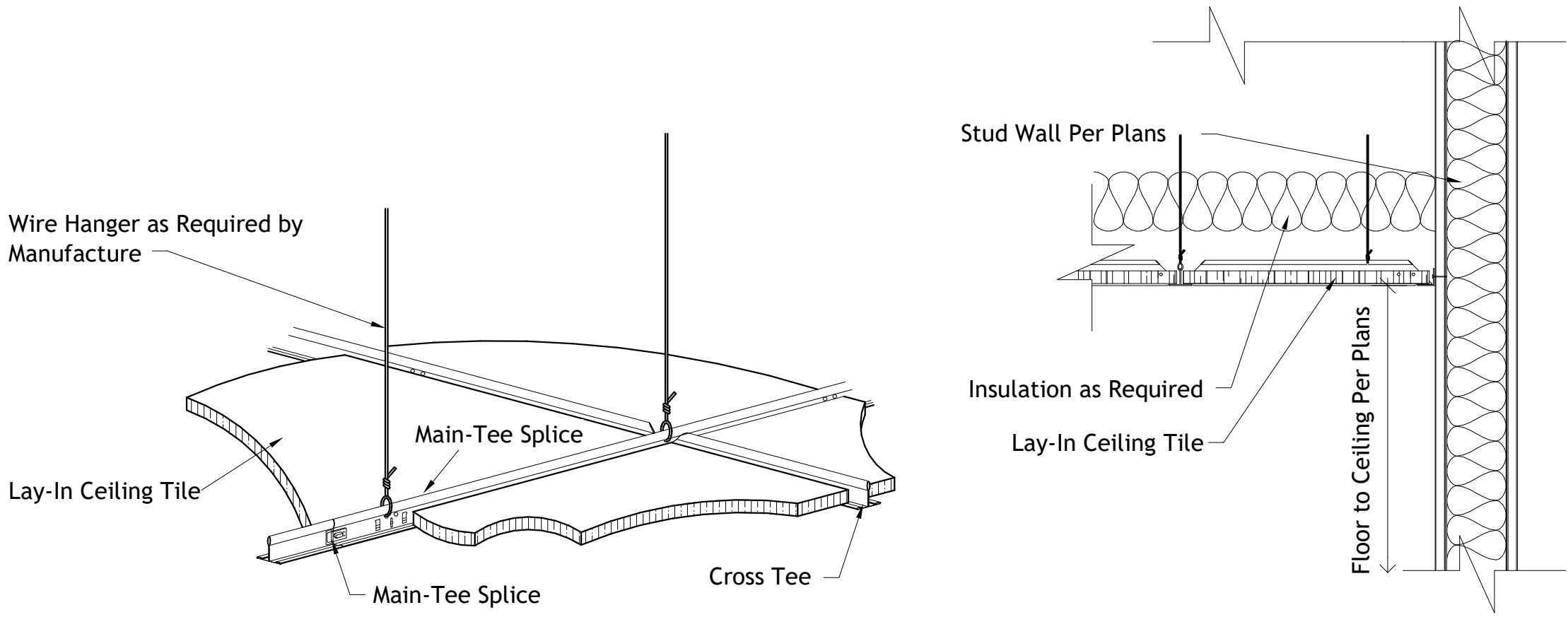


## Control Location at Roll-In Shower

14 SCALE: NOT TO SCALE







Suspended Lay-In Ceiling

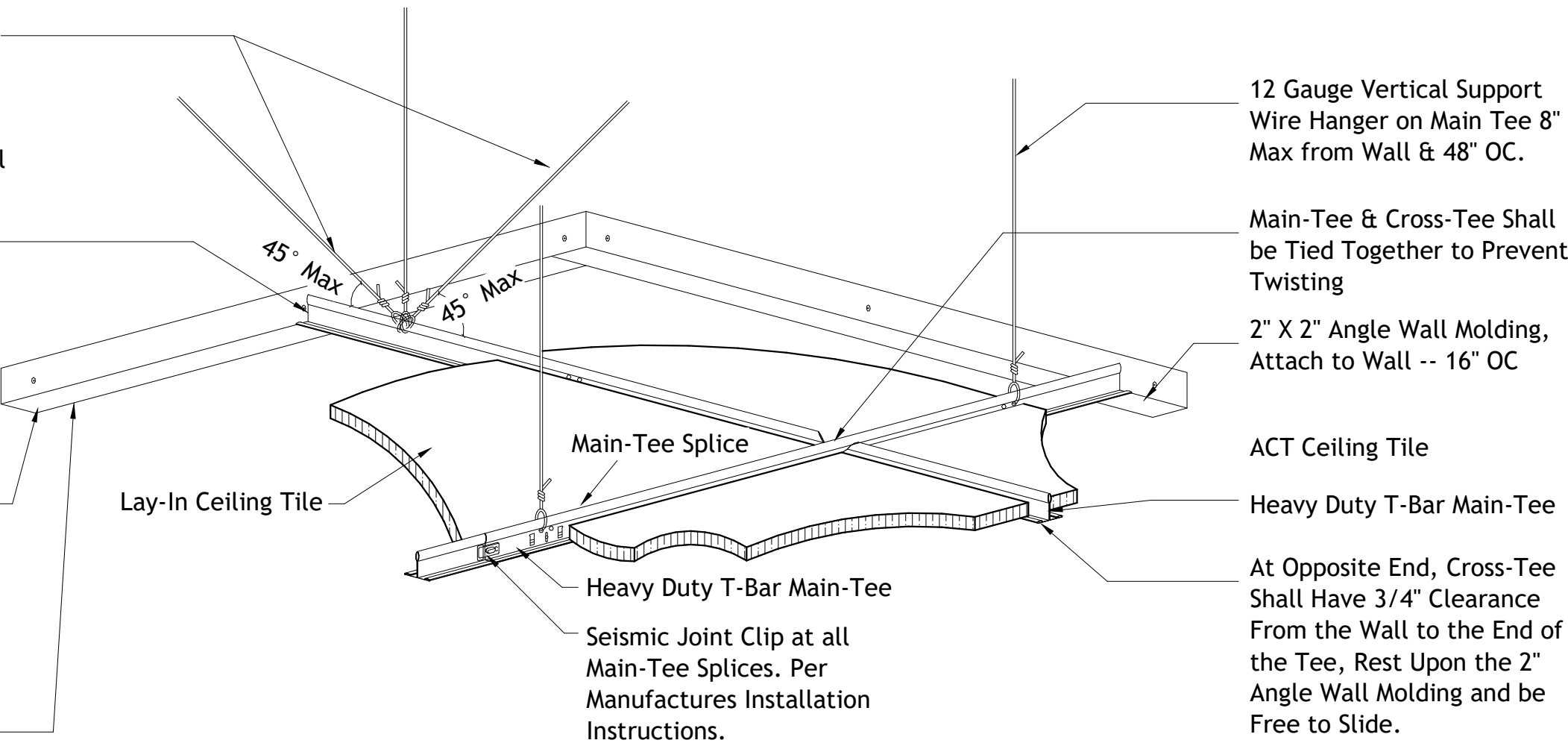
1 SCALE: Not to Scale

4-Way, 45° Diagonal, 12 Gauge Wire Bracing. Install 12'-0" OC (Max.) Each Way & 4'-0" (Max) from Any Wall.

Attach Cross-Tee of Suspension System to 2" Wall Molding (on Two Adjacent Walls) with Pop Rivets or Screws

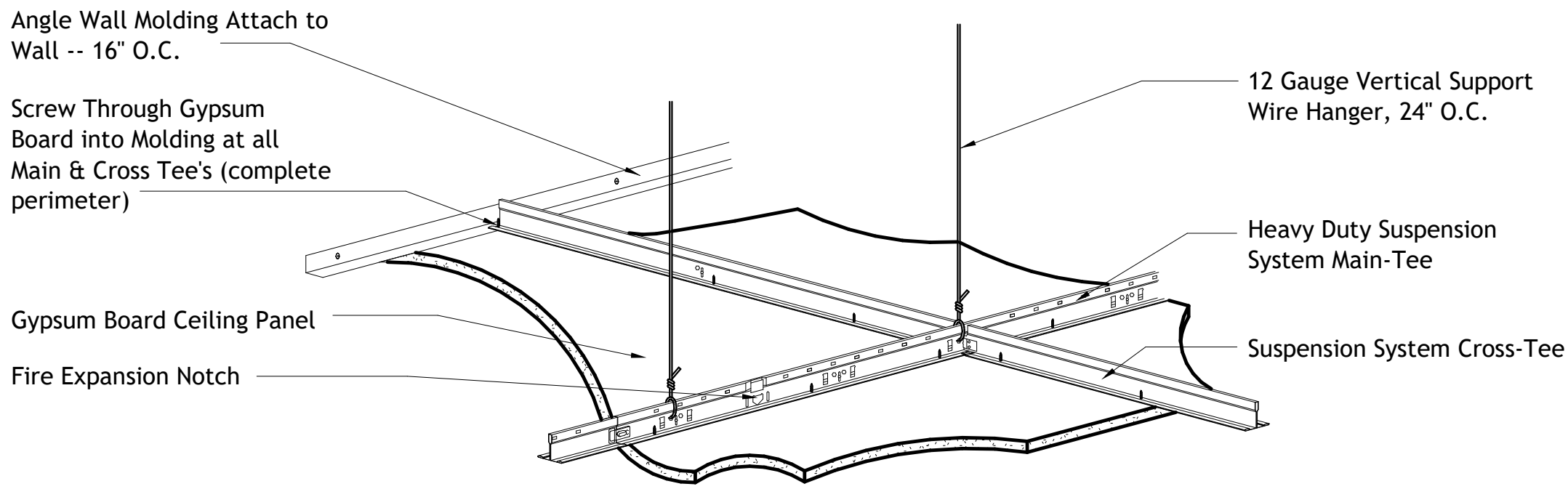
2" X 2" Angle Wall Molding, Attach to Wall -- 16" OC

At Opposite End, Cross-Tee Shall Have 3/4" Clearance From the Wall to the End of the Tee, Rest Upon the 2" Angle Wall Molding and be Free to Slide.



Suspended Lay-In Ceiling - Seismic

3 SCALE: Not to Scale



Suspended Gyp. Bd. - Seismic

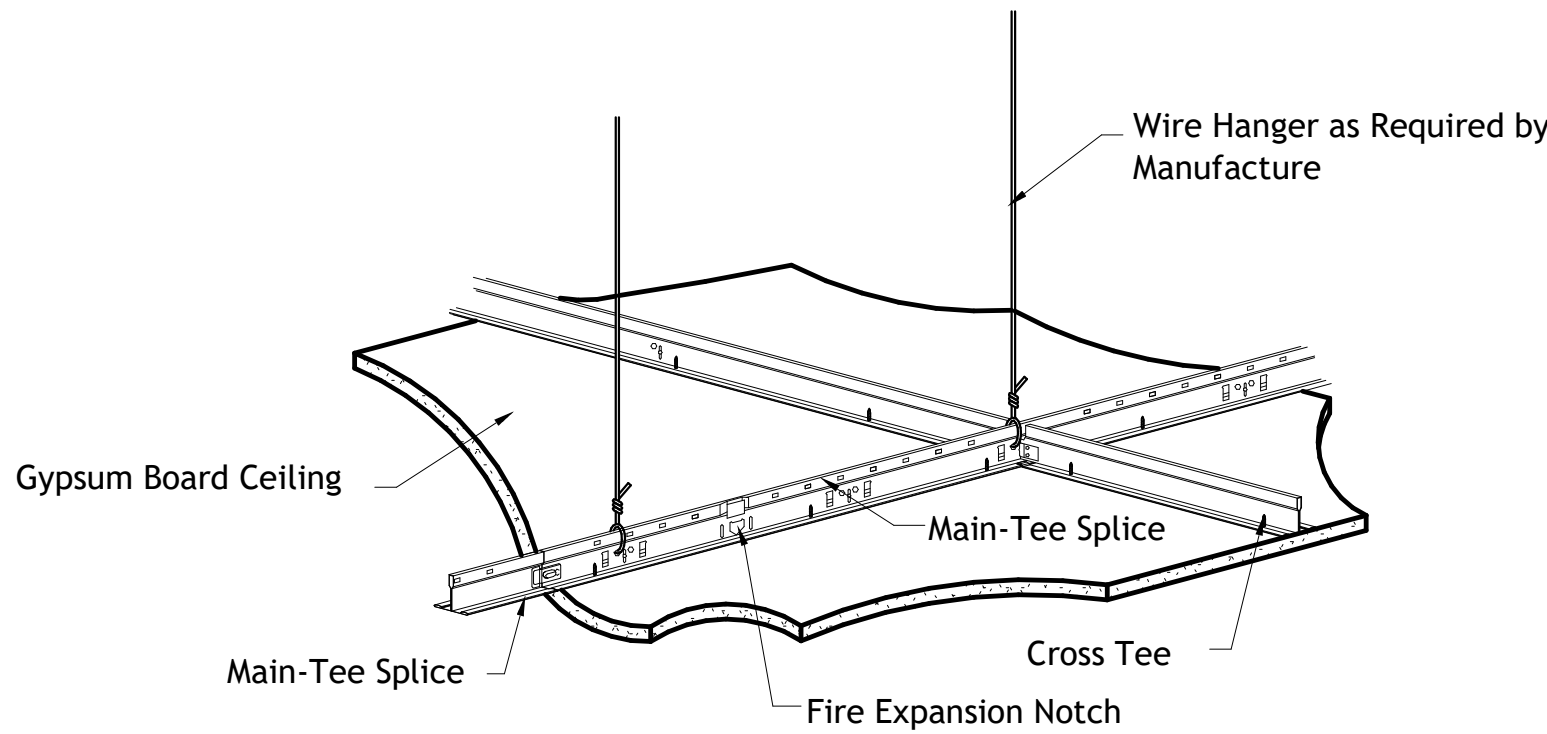
2 SCALE: Not to Scale

NOTE:

Light Fixtures Must be Positively Attached to the Ceiling Grid With an Attachment Capable of Carrying 100% of the Weight of the Light Fixtures. Light Fixture Weight up to 56 Pounds Shall Require Two Vertical Support Wires; These Wires be Slack.

Light Fixtures Weighing More than 56 Pounds Shall Require Independent Support from the Building Structure (Above the Ceiling).

Air Terminals Weighing Less than 20 Pounds Shall be Positively Attached to the Ceiling Grid. Air Terminals Weighing 20 Pounds but not More than 56 Pounds, Shall be Secured to the Building Structure (Above the Ceiling), in Addition to Being Attached to the Ceiling Grid. These Wires may be Slack. Air Terminal Weighing More than 56 pounds Shall Require Independent Support from the Building Structure, (Above the Ceiling).



Suspended Gyp. Bd.

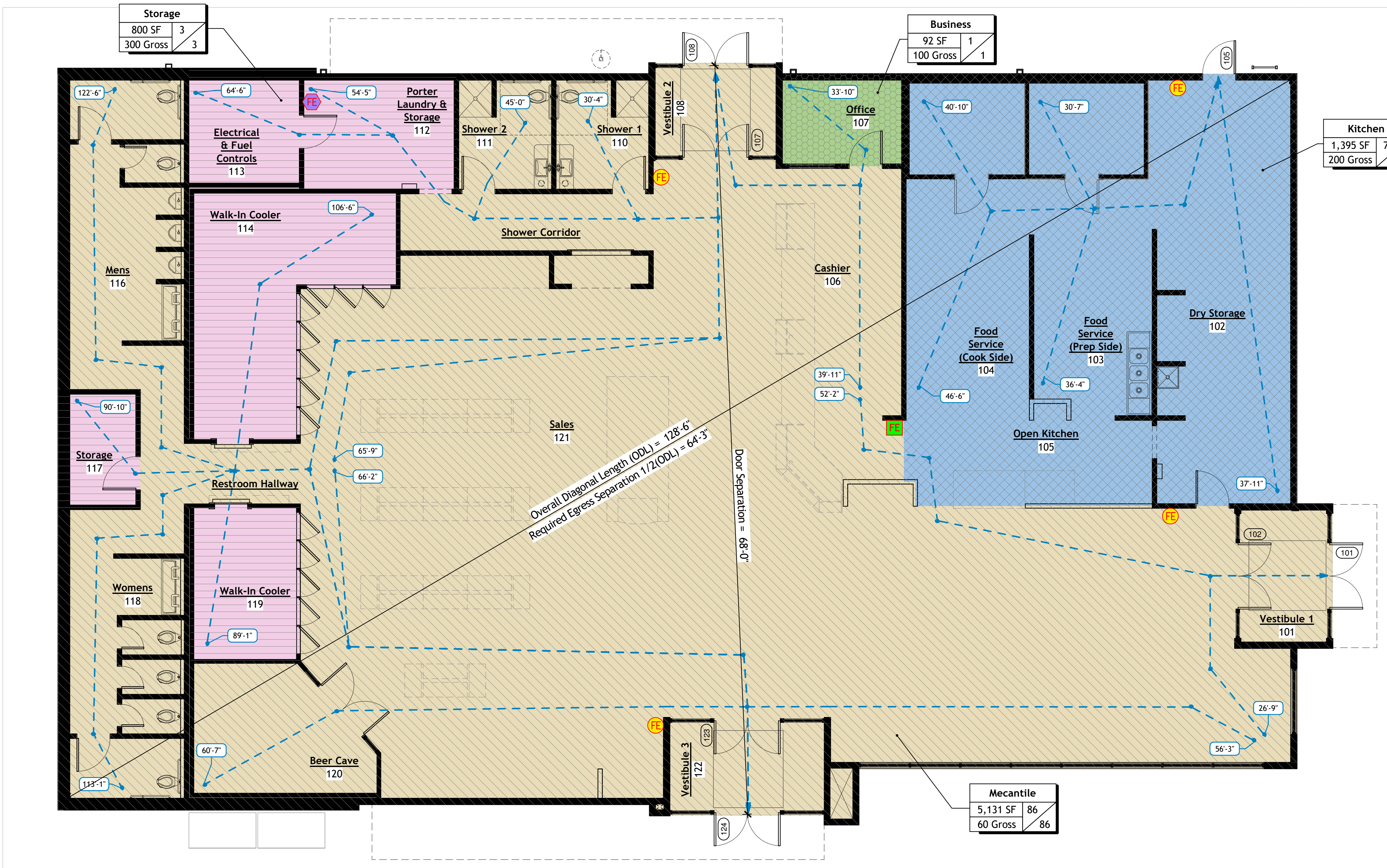
4 SCALE: Not to Scale

NOTE:

Per ASTM E580 the following are NOT REQUIRED.

1. Perimeter Vertical Hanger Support Wire, 8" Max. from Wall.
2. Horizontal Restraint (Splay Wires or Rigid Bracing) Within 2" of Intersection and Splayed 90° Apart at 45° Angles.
3. Compression Posts (Struts) 12ft. OC in Both Directions, Starting 6 ft. from Walls.
4. Supplementary Light Fixture Attachment.
5. Seismic Separation Joint.





Egress Sizing [SEC. 1005]					
DOOR NO.	EGRESS LOAD	CAP FACTOR	CALC. WIDTH (IN.)	Min. Width	Actual Width
101	97	0.2	19.4	32"	36"
105	97	0.2	19.4	32"	36"
108	97	0.2	19.4	32"	36"
124	97	0.2	19.4	32"	36"

OCCUPANCY LOAD				
FUNCTION OF SPACE	AREA (SF-GROSS)	OCC. LOAD (SF/OCC.)	OCCUPANCY	
			CALCULATED	PROPOSED
Mecantile	5,136 SF	60 SF	86	86
Storage	801 SF	300 SF	3	3
Business	92 SF	100 SF	1	1
Kitchen	1,397 SF	200 SF	7	7
Proposed Total Occupants			97	97

NOTE:  
Description in compliant with Sec. 1004

Function Of Space Legend

- (B) Business
- (S) Storage
- (M) Mercantile
- (K) Kitchen

NOTE:  
Description In Conformity With Sec. 1004

Legend Of Symbols:

- Path of Travel
- Direction of Egress
- Exit Access Travel Distance (EATD)
- Life Safety Tag
- Function Type
- Area (Sq Ft)
- Total Calculated Occupants
- Space Function (Re: Life Safety Plan)
- FE Fire Extinguisher - 10# ABC
- FE Fire Extinguisher - 15# CO2
- FE Fire Extinguisher - K-Class (Min. Rating 2A)

NOTE:  
See Cover Sheet G101 For Additional Information

Life Safety Plan

SCALE: 3/16" = 1'-0"



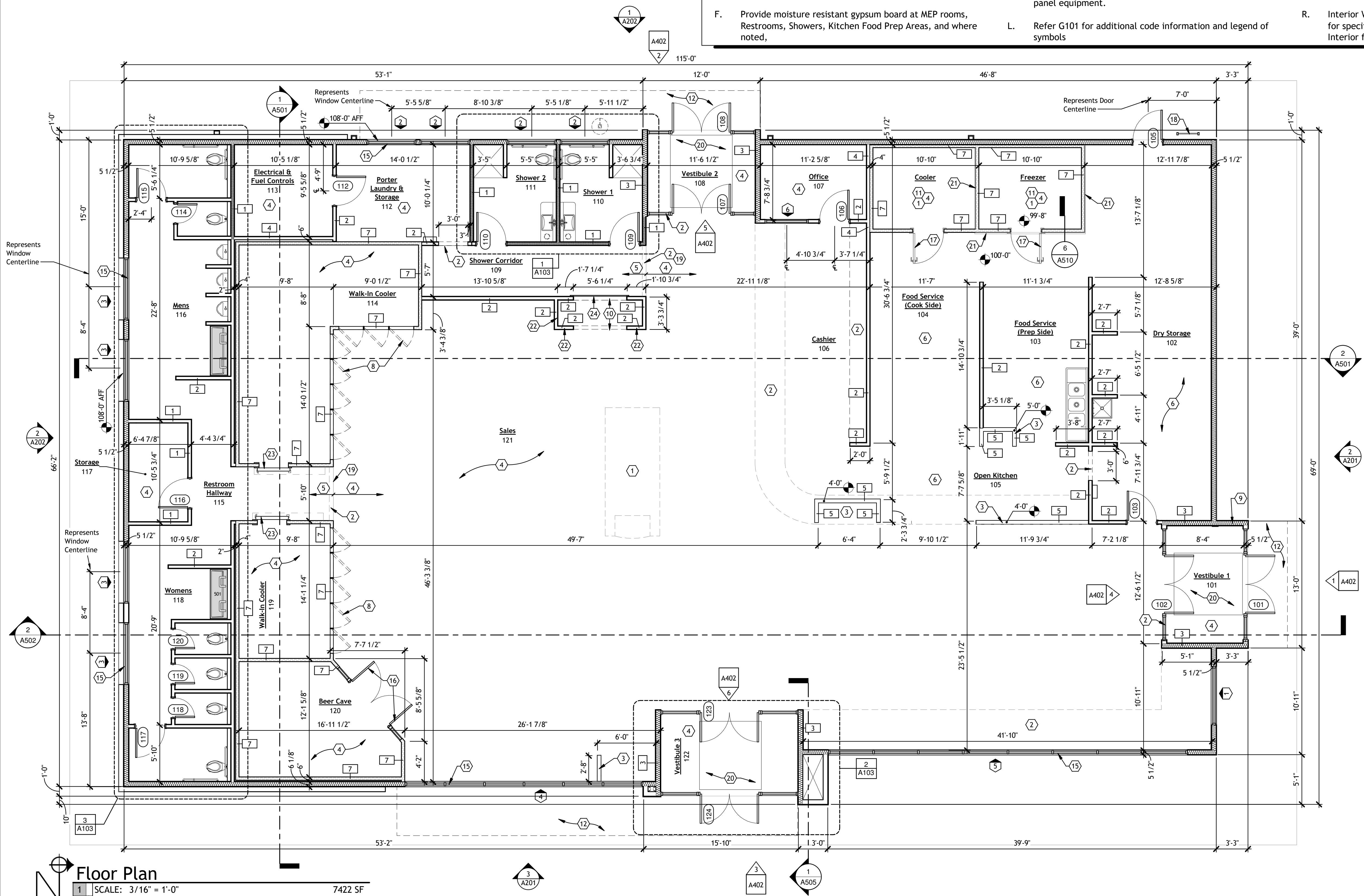
Refer A103 For All Partition Types " A2 "

Exterior Dimensions Represent Out To Out Of Concrete Unless Noted Otherwise

## Floor Plan General Notes:

- A. All dimensions are to framing at new walls (unless noted otherwise).
- B. All walls to be primed and painted unless noted otherwise. Paint floor to ceiling and corner to corner. One (1) coat of primer and two (2) coats of paint. Owner will select one field color and three accent colors for the walls.
- C. All hollow metal doors and frames to be painted - two coats. Prior to painting spot prime any factory scratches.
- D. Extend Gypsum Board 6" Above Lay-In Ceiling - Re: A103 Partition Types
- E. Provide 5/8" gypsum board on walls, mud/tape (level 4), prime & paint, unless noted otherwise.
- F. Provide moisture resistant gypsum board at MEP rooms, Restrooms, Showers, Kitchen Food Prep Areas, and where noted,
- G. Provide concrete pad for all ground mounted equipment (ie. Main Switch, transformer, condensing unit, generators, etc.) Coordinate w/ MEP & Structural Sheets.
- H. Coordinate all equipment (electrical panels, air compressors, main switch, transformer, etc) and locations with MEP sheets.
- I. Coordinate all work with MEP, Structural, and Civil.
- J. Floor: Refer to A401 for Room Finish Schedule. Prep concrete floor as required per floor manufacturer's instructions. Provide smooth transition between dissimilar floor material. install under all casework.
- K. All electrical panel locations shall be coordinated with MEP Drawings. Provide 3/4" Fire-treated Plywood for electrical panel equipment.
- L. Refer G101 for additional code information and legend of symbols
- M. Room Finishes: All wall finishes (including but not limited to Tiling, paint, stone veneer, Etc.) vary and **must be** coordinate with interior elevations unless noted otherwise - Refer To Interior Finish Schedule A706 and Interior Elevations.
- N. Equipment: Equipment not shown on plan for clarity - Re: Equipment Plan and schedule on Q-Sheet for additional information.
- O. Fire Extinguishers: All fire extinguishers shall be mounted 48" Max. AFF to top of handle (Refer 16/G202). UL rating and size of fire extinguisher shall be coordinated with Life Safety Plan Sheet A101.
- P. Gasoline equipment lines to be run under finished floor.
- Q. Beverage lines to fountain drink dispenser to be run under finished floor. beverage lines may be run through walls or ceiling (optional).
- R. Interior Wall Finishes: Wall finishes vary, mud/tape, and prep all walls for specified material and as instructed by the material manufacturer. Interior finishes must be coordinated with Interior Finish Plan 1/A701.

Applies To Floor Plan And Enlarged Plans



## Floor Plan Keyed Notes:

NOTE: Applies To Floor Plan A102 And Enlarged Plans A103

- Specialty Equipment - Re: Q101
- Bulkhead Above - Coordinate With Reflective Ceiling A801
- Pony Wall With ClarkDietrick Support: Wall Height As Noted On Floor Plan And Must Be Coordinated With Interior Elevations - Re: Pony Wall Detail 4/A103
- Floor F1 - Sealed Concrete, Unstained, Concrete Sealer - Re: Interior Finish Plan 1/A701.
- Floor F2 - Porcelain Tile 8"x48" By Daltile - Re: Interior Finish Plan 1/A701.
- Floor F3 - Epoxy Floor By Sherwin Williams With Top Coat - Re: Interior Finish Plan 1/A701.
- Floor F4 - Porcelain Tile 3D Cube 12"x12" By Daltile - Re: Interior Finish Plan 1/A701.
- Reach-In Doors, 30"x75", For Walk-In By Anthony International, LED Lighting, Black Frames And Hardware. Install Doors 8" AFF - Re: Interior Elevations
- Knoxbox 3200 Recessed Mounted - Verify With Fulton, Kentucky Fire Department Prior To Ordering At 270-472-1422.
- Soda Dispenser Rough Opening Must Be Coordinated With Shop Drawing Provided By Owner
- Step-In Cooler And Freezer By KPS Or Approved Equal. Manufacturer shall provide all insulated panels, including but not limited to Wall, Ceiling, Floor, Doors, And Hardware. GC shall coordinate with Manufacturer Shop Drawings And MEP - Re: Equipment Plan Q101
- Canopy - Re: Storefront Canopy Detail 3/A404
- Awning - Re: Exterior Elevations
- Wall FRP1: Fiber Reinforced Panel Floor To Ceiling - Re: Specs.
- Aluminum Window - Re: Window Schedule A401
- Walk-Thru Doors, 36"x81" (2), By Anthony International, Black Frame And Hardware For Beer Cave
- 36"x84" Vault Door By Cooler Manufacturer
- Exterior Access Ladder - Re: Ladder Elevation 9/A509
- Transition Strip Between Porcelaine Tile And Concrete Floor - Re: Tile To Concrete Transition 6/A509
- Recessed Floor Mat By Construction Specialties (Model Medimat With Aluminum Level Base, Square End Vinyl And Rail With Mat Insert) Or Approved Equal - Coordinate Recessed Opening With Structural - Re: Recessed Floor Mat Detail 4/A501
- Freezer With Recessed Floor With 1" Space Around For Freezer Installation. GC Shall Coordinate Recessed Concrete Slab With Freezer Manufacturer's Shop Drawings And Structural. Infill 1" Space With Grout Flushed To Floor Once Freezer Is Installed - Re: Grout Infill Detail 6/A510.
- Partial Wall Flushed Above Casework. Coordinate Final Above Floor Finish Height With Casework Manufacturer - Re: Casework Wall Detail 5/A510
- Insulated Sliding Doors by Walk-In Cooler Manufacturer.
- Access Panel: Removable Access Panel By The Williams Bros. (Model WB RP 110 Series Removable Panel Access Door; Size: 65" w x 75" h; Door 14ga.; Trim: 16ga.; Finish: Factory Primed. GC To Spot Prime And Finishing Color to Match Adjacent Wall Paint; Latches And Cylinder Lock By Manufacturer) Or Approved Equal. Install Bottom Of Access Panel Flush With Top Of Cabinet. Coordinate With Casework Manufacturer - Re: Shower Corridor (11/A704).

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2			

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Acee's Truck Stop  
Fulton, Kentucky

Non-Reduced Sheet Size: 24" x 36"

Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

DESIGNED	DRAWN
DM, MS	
FIELD	FIELD BOOK
CHECKED	CHECK DATE

SHEET TITLE

Floor Plan

PROJECT NO.

24007

DRAWING ISSUED DATE:

10/09/24

SHEET

A102



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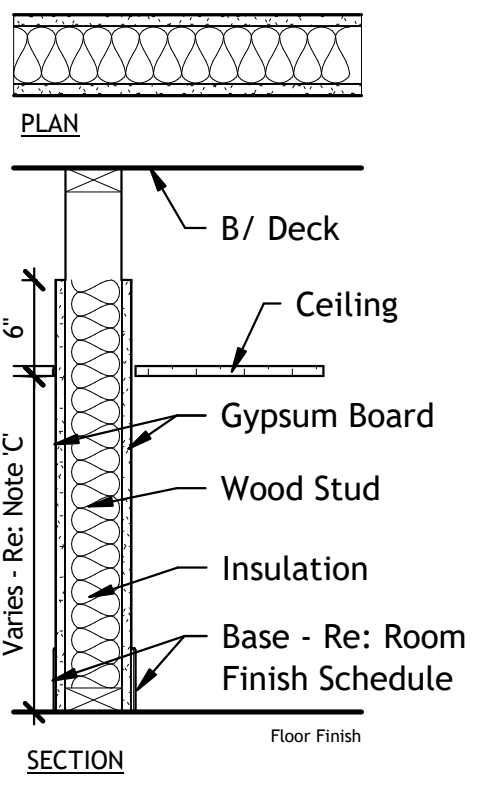
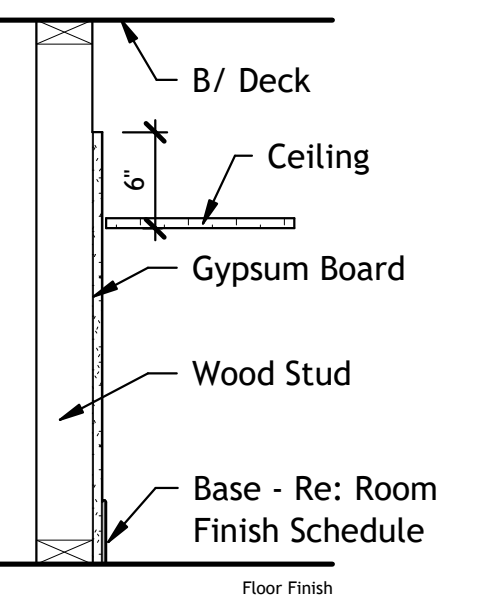
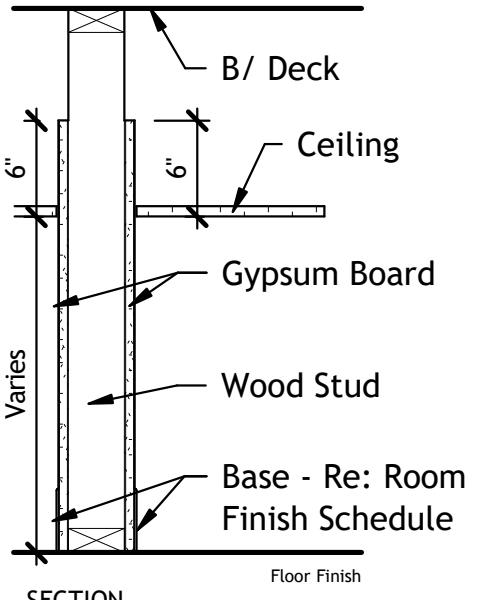
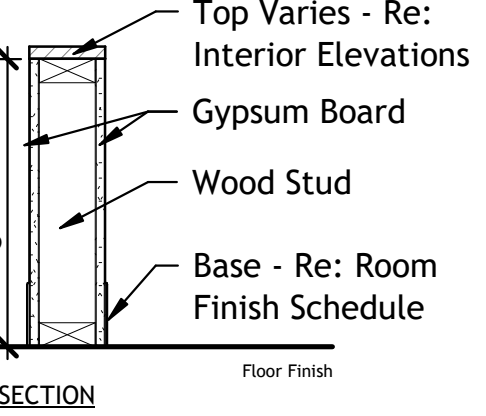
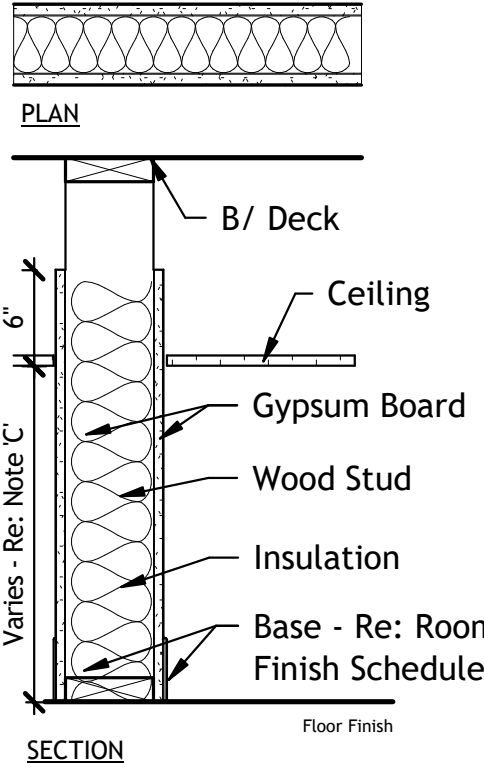
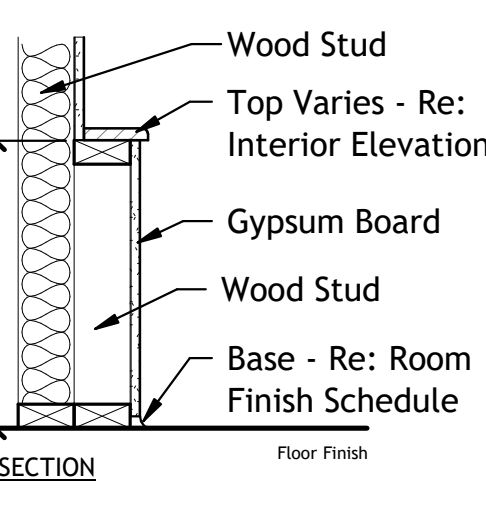
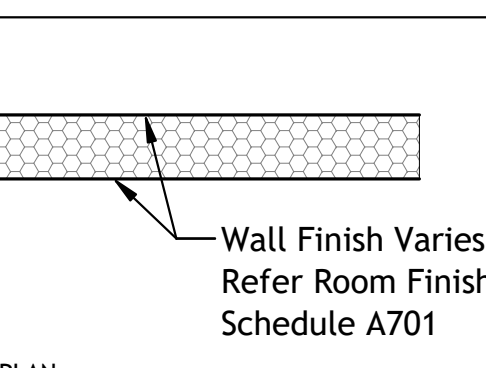


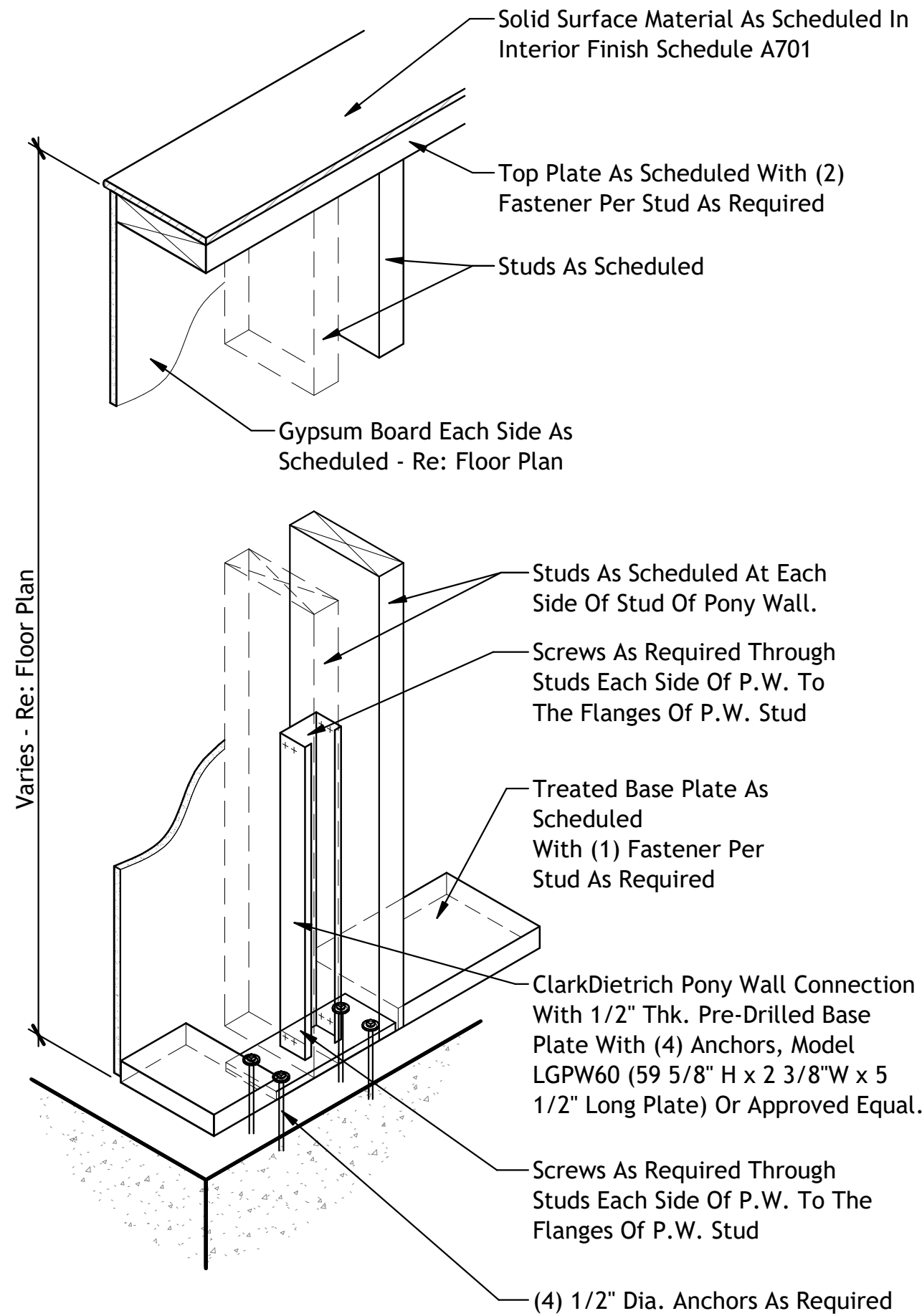
WALL LEGEND

NOTE: At Gypsum Board Walls And Ceilings Provide Control Joints At Minimum Of Every 30 Linear Feet Of Uninterrupted Surface.

Wall Type X#-# Fire Rating (Hours)

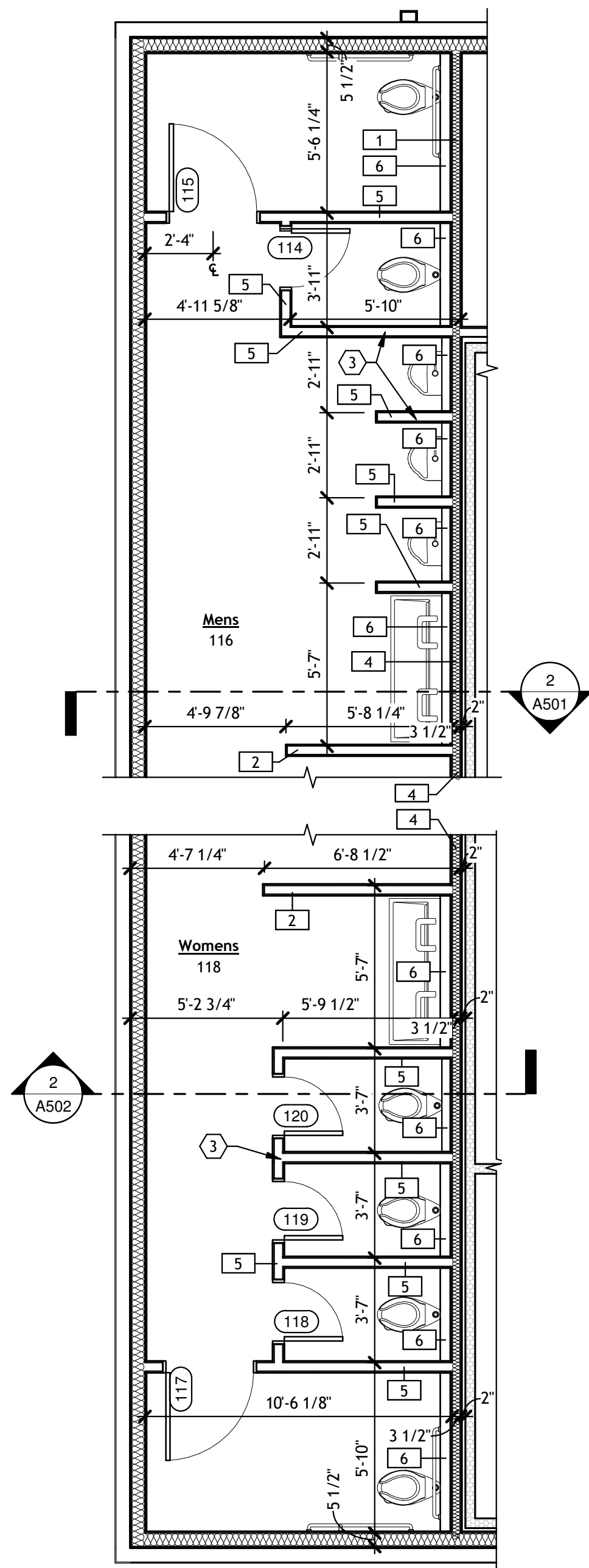
WALL TAG

TYPE	SECTION	DESCRIPTION	TYPE	SECTION	DESCRIPTION
1		A. Wood Stud: 2x4 Wood Studs Spaced At 16" O.C. From Top Of Slab To Underside Of Deck Above. B. Gypsum Board: 5/8" Gypsum Wall Board Each, Extend Each Side Of Gypsum Board To 6" Min. Above Ceiling. C. Ceiling Height: Ceiling Height And Type Varies From Top Of Floor To Underside Of Ceiling Finish - Re: Reflective Ceiling Plan A801. D. Insulation: Sound Attenuating Insulation Between Studs.	4		A. Wood Stud: 2x4 Wood Studs Spaced At 16" O.C. From Top Of Slab To Underside Of Deck Above. B. Gypsum Board: 5/8" Gypsum Wall Board One Side, Extend Gypsum Board To 6" Min. Above Ceiling. C. Ceiling Height: Ceiling Height And Type Varies From Top Of Floor To Underside Of Ceiling Finish - Re: Reflective Ceiling Plan A801.
2		A. Wood Stud: 2x4 Wood Studs Spaced At 16" O.C. From Top Of Slab To Underside Of Deck Above. B. Gypsum Board: 5/8" Gypsum Wall Board Each, Extend Each Side Of Gypsum Board To 6" Min. Above Ceiling. C. Ceiling Height: Ceiling Height And Type Varies From Top Of Floor To Underside Of Ceiling Finish - Re: Reflective Ceiling Plan A801.	5		A. Wood Stud: 2x4 Wood Studs Spaced At 16" O.C. Pony Wall Height Varies - Re: Interior Elevations B. Gypsum Board: 5/8" Gypsum Wall Board Each, Extend Each Side Of Gypsum Board To Underside Of Top.
3		A. Wood Stud: 2x6 Wood Studs Spaced At 16" O.C. From Top Of Slab To Underside Of Deck Above. B. Gypsum Board: 5/8" Gypsum Wall Board Each, Extend Each Side Of Gypsum Board To 6" Min. Above Ceiling. C. Ceiling Height: Ceiling Height And Type Varies From Top Of Floor To Underside Of Ceiling Finish - Re: Reflective Ceiling Plan A801. D. Insulation: Sound Attenuating Insulation Between Studs.	6		A. Wood Stud: 2x4 Wood Studs Spaced At 16" O.C. Pony Wall Height Varies - Re: Floor Plan A102. B. Gypsum Board: 5/8" Gypsum Wall Board, Extend Gypsum Board To Underside Of Top. C. Insulation: Sound Attenuating Insulation Between Studs.
			7		A. 4" Insulated Wall Panel By KPS Global Or Approved Equal



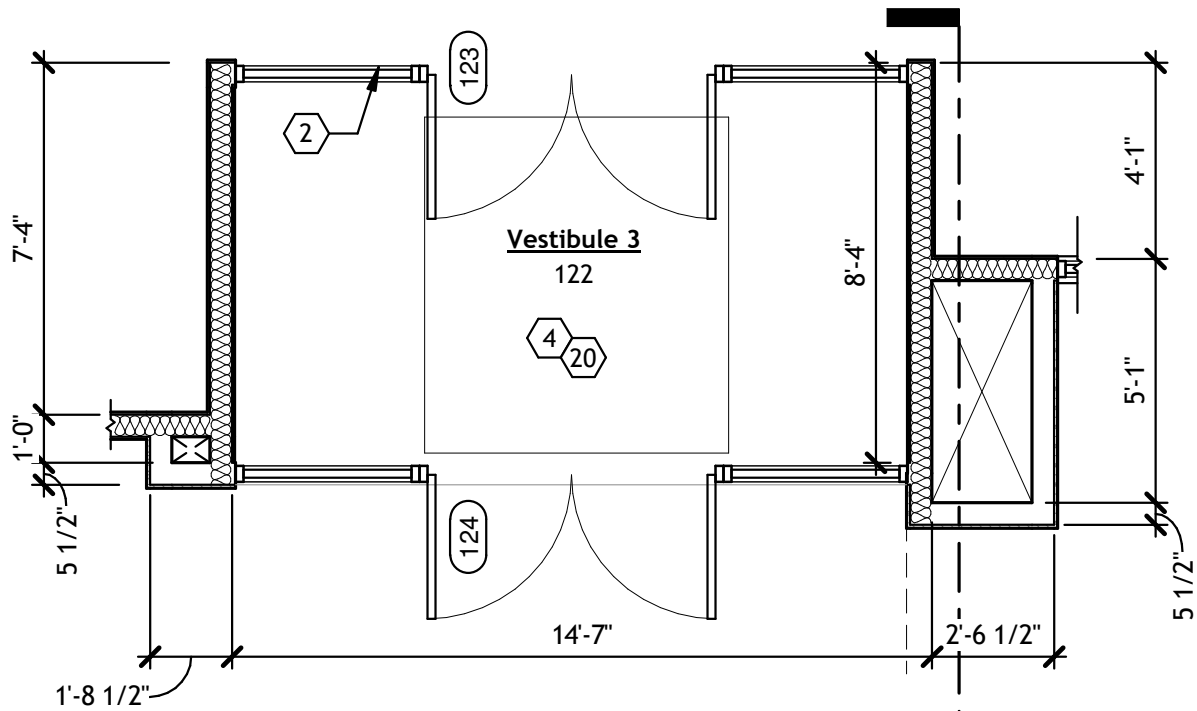
Pony Wall Detail

4 SCALE: 1" = 1'-0"



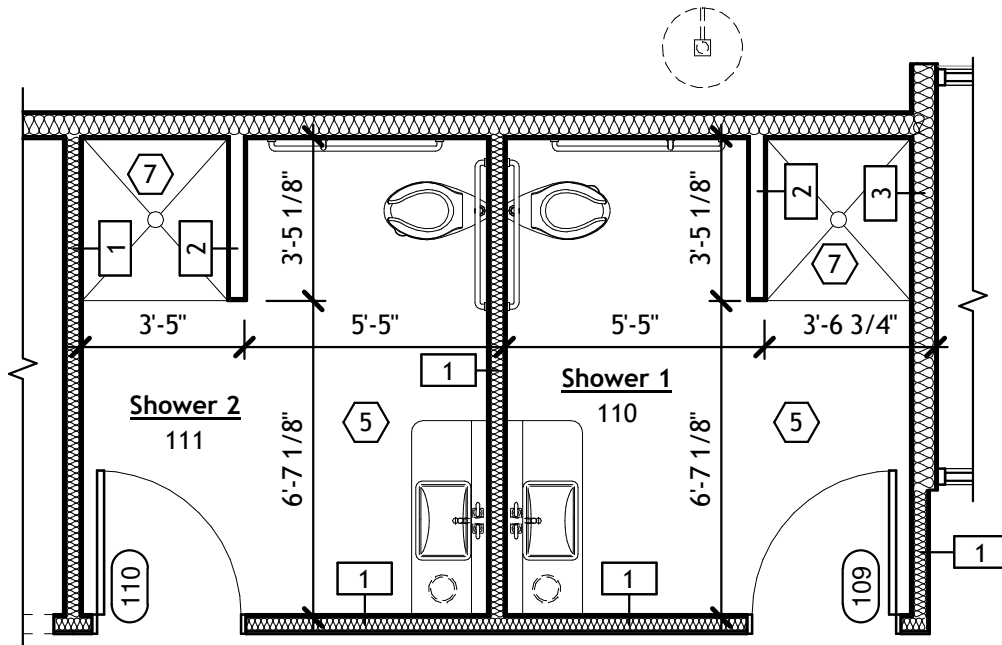
Enlarged Restroom Plan

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



Vestibule Enlarged Plan

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



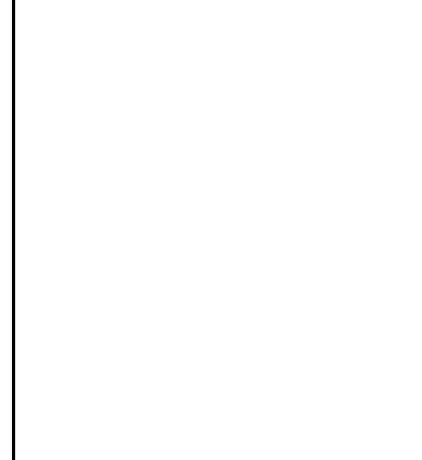
Enlarged Shower Plan

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

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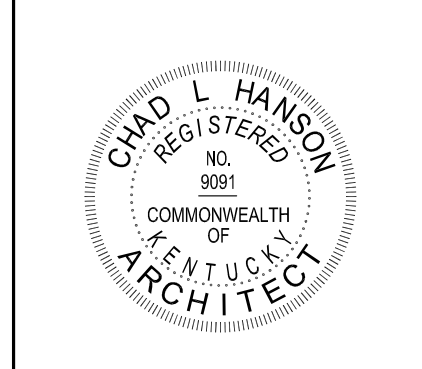
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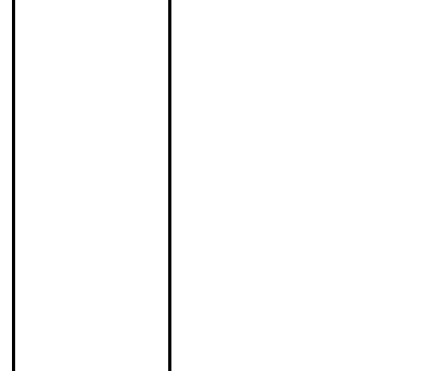
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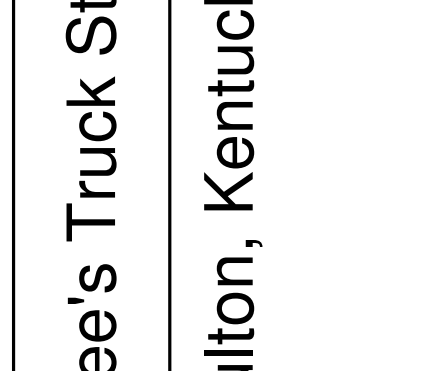
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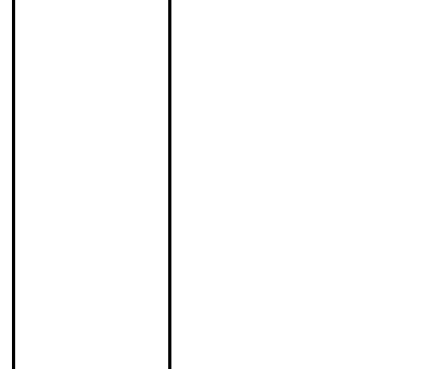
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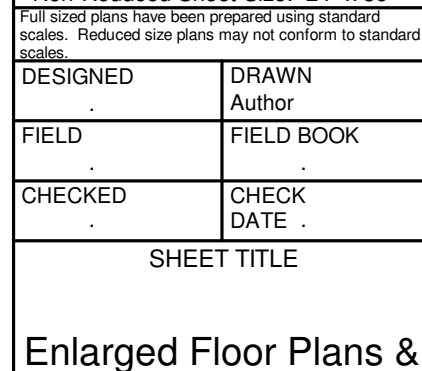
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PROJECT NO. 24007  
DRAWING ISSUED DATE: 10/09/24  
SHEET

A103

Enlarged Floor Plans & Partition Types

Enlarged Floor Plans & Partition Types

Enlarged Floor Plans & Partition Types

Enlarged Floor Plans & Partition Types

Enlarged Floor Plans & Partition Types

Enlarged Floor Plans & Partition Types



### Elevation General Notes:

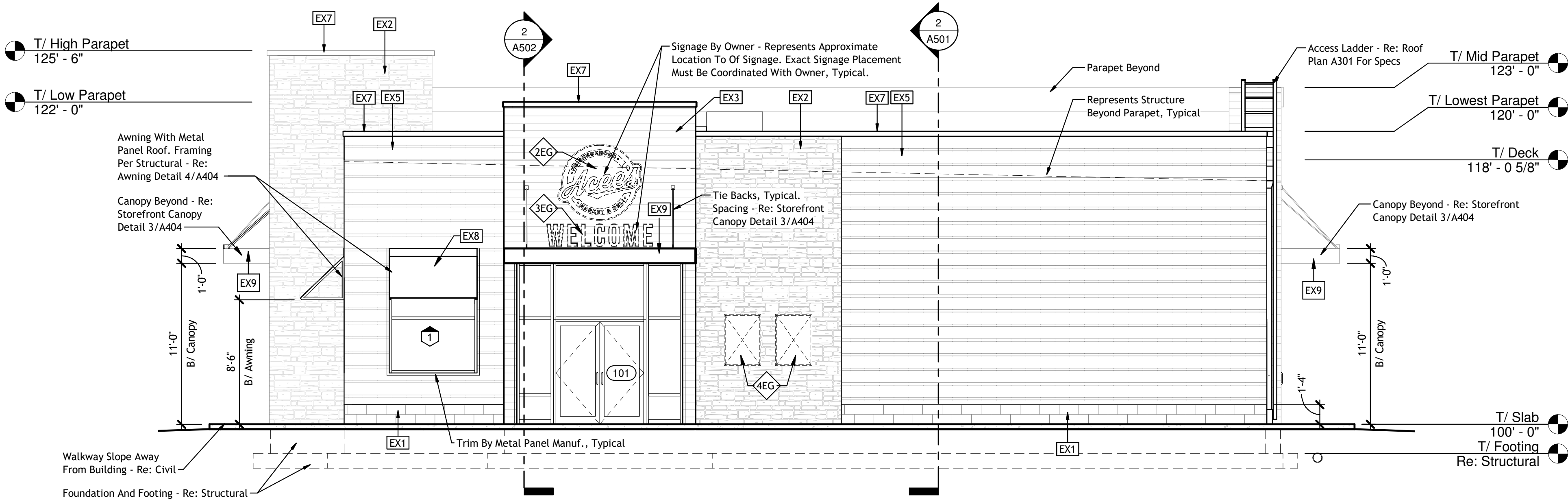
- A. Coordinate with Civil & MEP Sheet for locations of equipment and devices.
- B. Hose-Bids not shown for clarity. Coordinate with P-Sheets.
- C. Aluminum Windows & Storefront - Refer A401 Window & Door Schedule.
- D. Exterior Signage "1EG" - Refer Exterior Signage And Schedule A506.
- E. Gas Meter - Coordinate With Mechanical Sheets.
- F. GC Shall Provide And Coordinate Awning Framing As Designed By Structural. Metal Roof Panels Shall Be As Scheduled On Exterior Finish Schedule - Re: Awning Detail 4/A404

### 4046 - Exterior Finish Schedule

ID	Description	Color	Manufacturer/Contact
EX1	Architectural Stone Veneer	Cast-Fit #Carbon	Cultured Stone (Thru Westlake)
EX2	Architectural Stone Veneer	Mortar: Gray	Peter Tank - 214.551.3718 - Ptank@Westlake.Com
		Pro-Fit LedgeStone #Platinum	Cultured Stone (Thru Westlake)
EX3	Wood Simulated Fiber Cement Siding		Peter Tank - 214.551.3718 - Ptank@Westlake.Com
		VintageWood #Cedar	Nichiha
EX4	Western Wave Metal Wall Paneling (Vertical Installation)	With Matching Corners And Trim	Leslie Thomasson - 803.493.0485 - Lthomasson@Nichiha.Com
		#Royal Blue	Western States Metal Roofing
EX5	Western Rib Metal Wall Paneling (Horizontal Installation)	Coordinating Trim Pieces To Match	(972) 843-4343
		#Dove Gray	Western States Metal Roofing
EX6	Metal Trim	Coordinating Trim Pieces To Match	(972) 843-4343
		#Regal Red	Western States Metal Roofing
EX7	Metal Caps/Cornices		(972) 843-4343
		#Cityscape	Berridge Manufacturing (Thru Conner-Legrand Inc.)
EX8	Standing Seam Angled Awnings		Luke Legrand - 972.221.1800 - Luke@Conner-Legrand.Com
		#Royal Blue	Western States Metal Roofing
EX9	Super Lumideck Flat Soffit Canopy With Downlights (With Visible Tie Backs)	Frame Per G.C.	Mapes Architectural Canopies
		#Regal Red	888.273.1132 - Canopy@Mapes.Com
EX10	Aluminum Storefront Mullions	Tie Backs Color: #Black	Steve Kesterson - 214.878.2697 - Steve.Kesterson@Arconic.Com
		Clear Anodized Aluminum (Inside & Outside)	Kawneer (Or Comparable)
EX11	Exterior Grade Paint		Sherwin Williams
		#Sw7071 Gray Screen	Charlene Hetcher - 469.822.2881 - Charlene.M.Hetcher@Sherwin.Com
EX12	Uv Window Treatments (If Needed)		Consult Contractor Or Architect

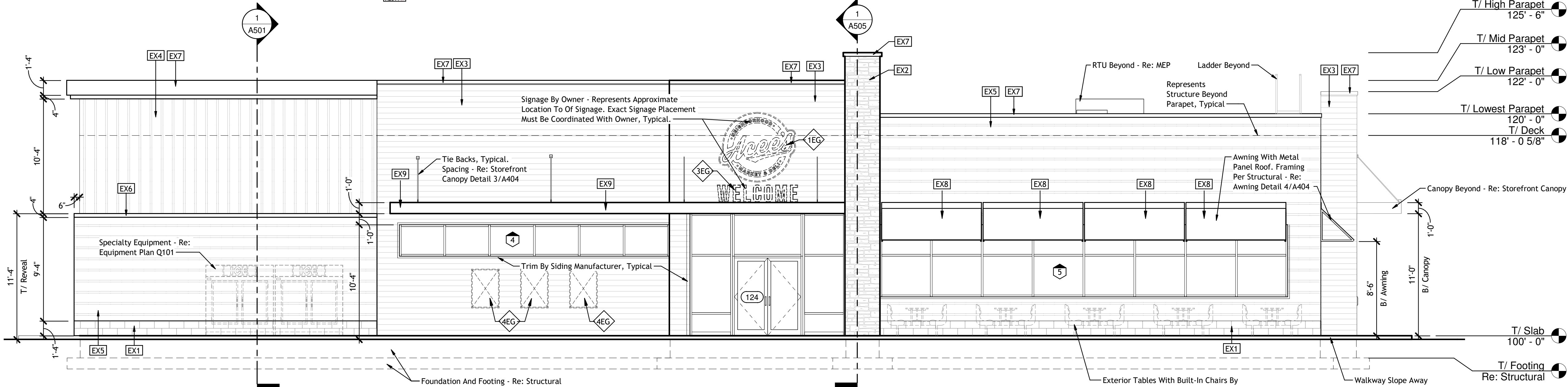
#### Exterior Finish General Notes

- 1 Consult Local Contractor For Standard Materials.
- 2 Consult Paragon Solutions For Color Verifications And Graphics.
- 3 Materials May Not Be Substituted Without Permissions From Owner Or Paragon Solutions.
- 4 Field Verify All Exterior Elevations And Graphics For Accurate Dimensions.



### North Elevation

2 SCALE: 3/16" = 1'-0"



### East Elevation

3 SCALE: 3/16" = 1'-0"

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#### REVISION HISTORY

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Acee's Truck Stop  
Fulton, Kentucky

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MG	MG
FIELD	FIELD BOOK
CHECKED	CHECK DATE

#### SHEET TITLE

North & East Elevations

PROJECT NO.

24007

DRAWING ISSUED DATE:

10/09/24

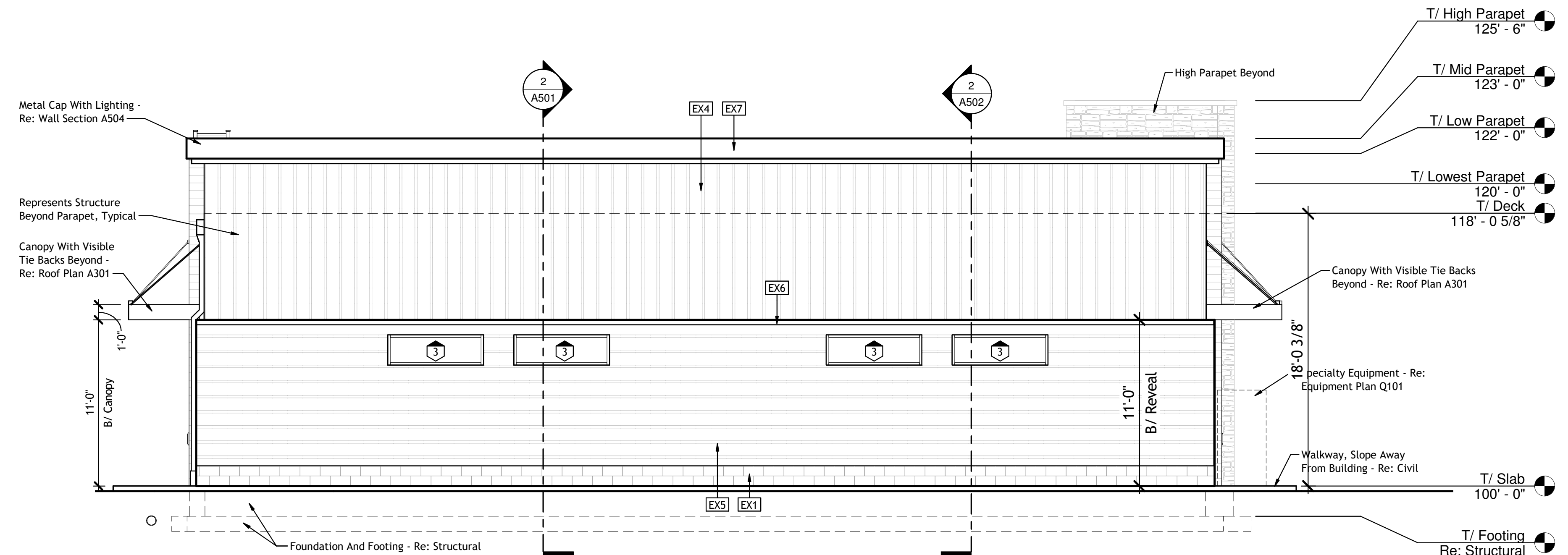
SHEET

A201



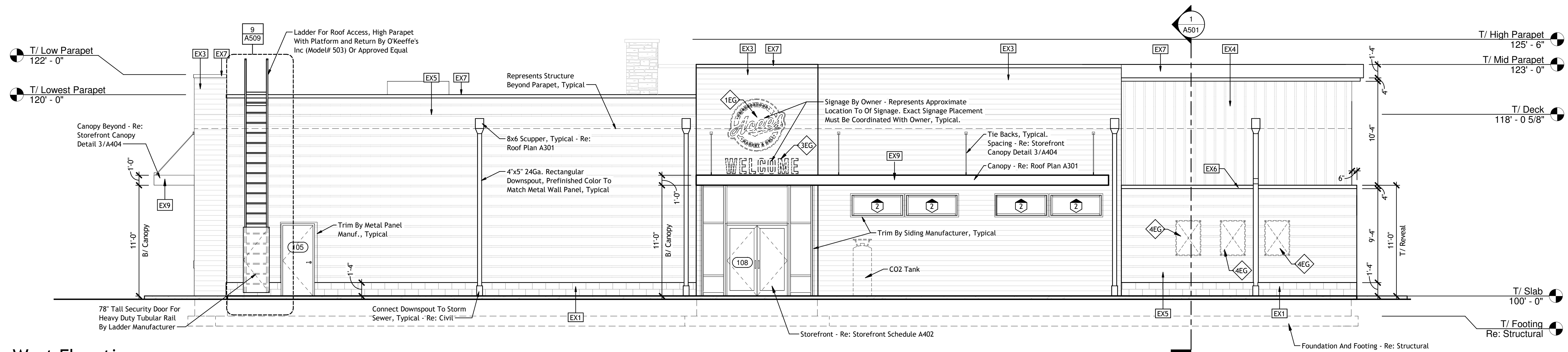


Refer A201 For Elevation General Notes And Exterior Finish Schedule



South Elevation

2 SCALE: 3/16" = 1'-0"

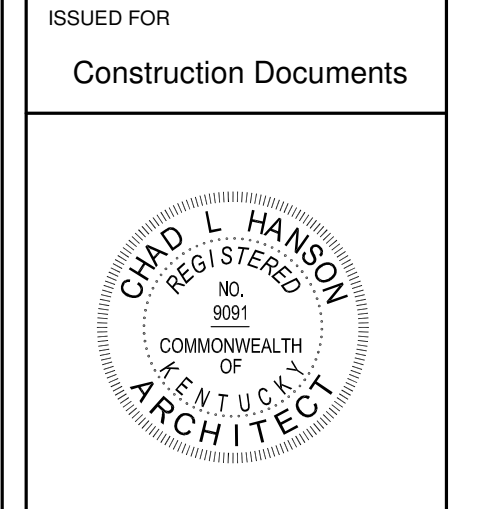


West Elevation

1 SCALE: 3/16" = 1'-0"

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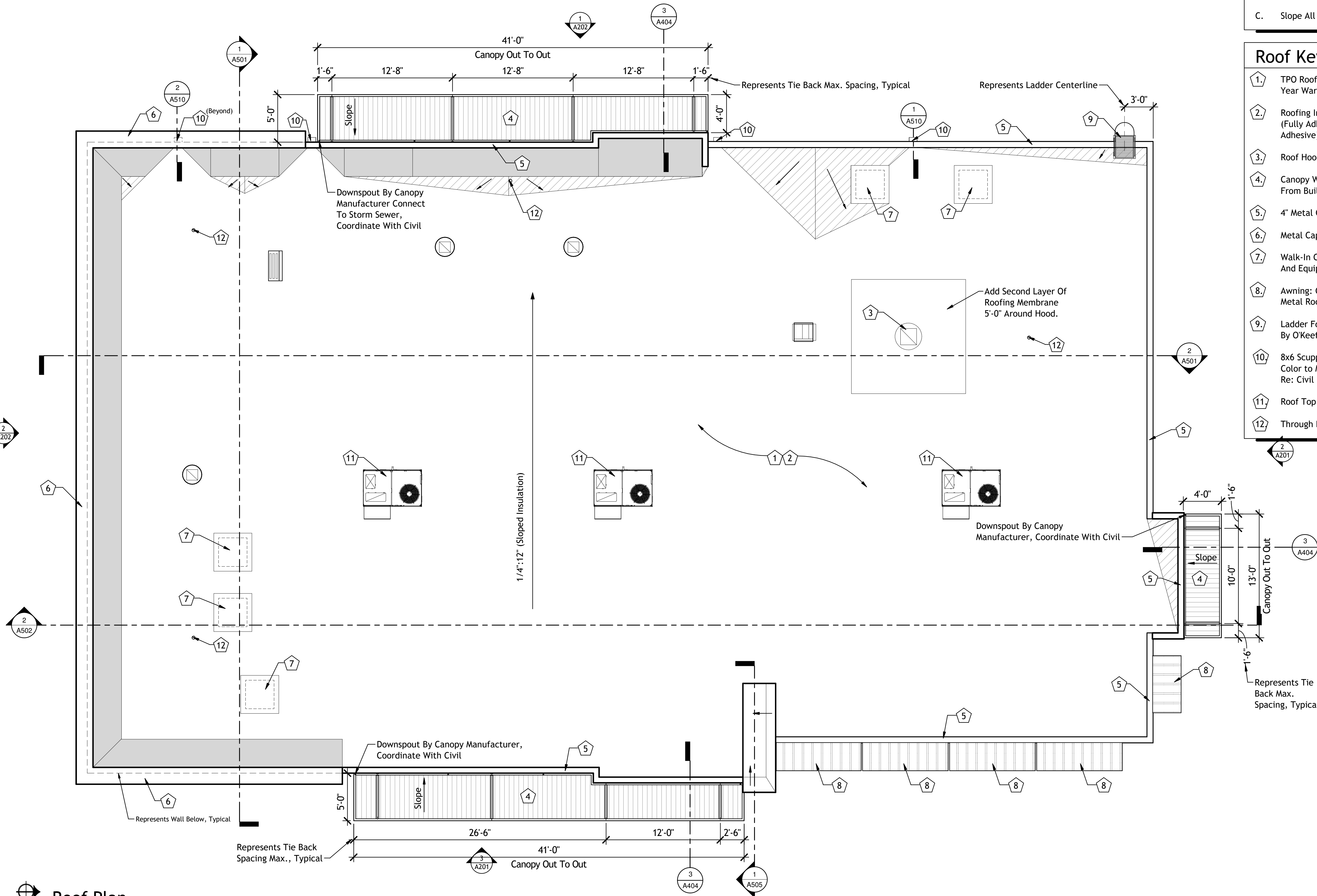
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Acee's Truck Stop  
Fulton, Kentucky

Non-Reduced Sheet Size: 24" x 36"	
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.	
DESIGNED	DRAWN
MG	MG
FIELD	FIELD BOOK
CHECKED	CHECK DATE
SHEET TITLE	
South & West Elevation	
PROJECT NO. 24007	
DRAWING ISSUED DATE: 10/09/24	
SHEET	
A202	





**Roof Plan**  
1 A301  
SCALE: 3/16" = 1'-0"

NOTE:  
• Refer G101 for additional code information and legend of symbols.

**Roof General Notes:**

- A. Provide boots and flashing at all penetrations - coordinate with MEP sheets.
- B. Refer MEP Sheets for all roof penetration sizes and openings.
- C. Slope All Metal Cap Toward Roof

**Roof Keyed Notes:**

Applies To Roof Plan

- 1. TPO Roofing Membrane Extend Up And Over Parapet Wall With 20 Year Warranty Fully Adhered - Re: Specs.
- 2. Roofing Insulation (Mechanically Fastened) And Recovery Board (Fully Adhered With Manufactureres Recommended Bonding Adhesive) - Re: Specs
- 3. Roof Hood - Re: MEP
- 4. Canopy With Visible Tie Backs Mounted 11'-0" AFF, Slope Away From Building - Re: Exterior Finish Schedule A201
- 5. 4" Metal Cap - Re: Exterior Finish Schedule A201
- 6. Metal Cap With LED Light - Re: Parapet With Cornice 6/A505
- 7. Walk-In Condensing Units With Curb - Refer Equipment Plan Q101 And Equipment Schedule Q102.
- 8. Awning: Coordinate Framing With Structural. Standing Seam Metal Roof Finish - Re: Exterior Finish Schedule A201.
- 9. Ladder For Roof Access, High Parapet With Platform and Return By O'Keeffe's Inc (Model# 503) Or Approved Equal.
- 10. 8x6 Scupper, Collector and Downspout 4x5 24 Ga. Prefinished Color to Match Metal Wall Panel. Connect D.S. Into Storm Sewer. Re: Civil
- 11. Roof Top Unit With Curb- Re: MEP
- 12. Through Roof Vent - Re: MEP

**Roof Legend**

- Tapered Roof Insulation
- Sloped, Structural Support - Kickers Must Be Coordinate With Structural
- Exhaust Fan With Curb - Re: MEP
- Condensing Unit With Equipment Rails- Re: MEP
- Makeup Air Unit - Re: MEP

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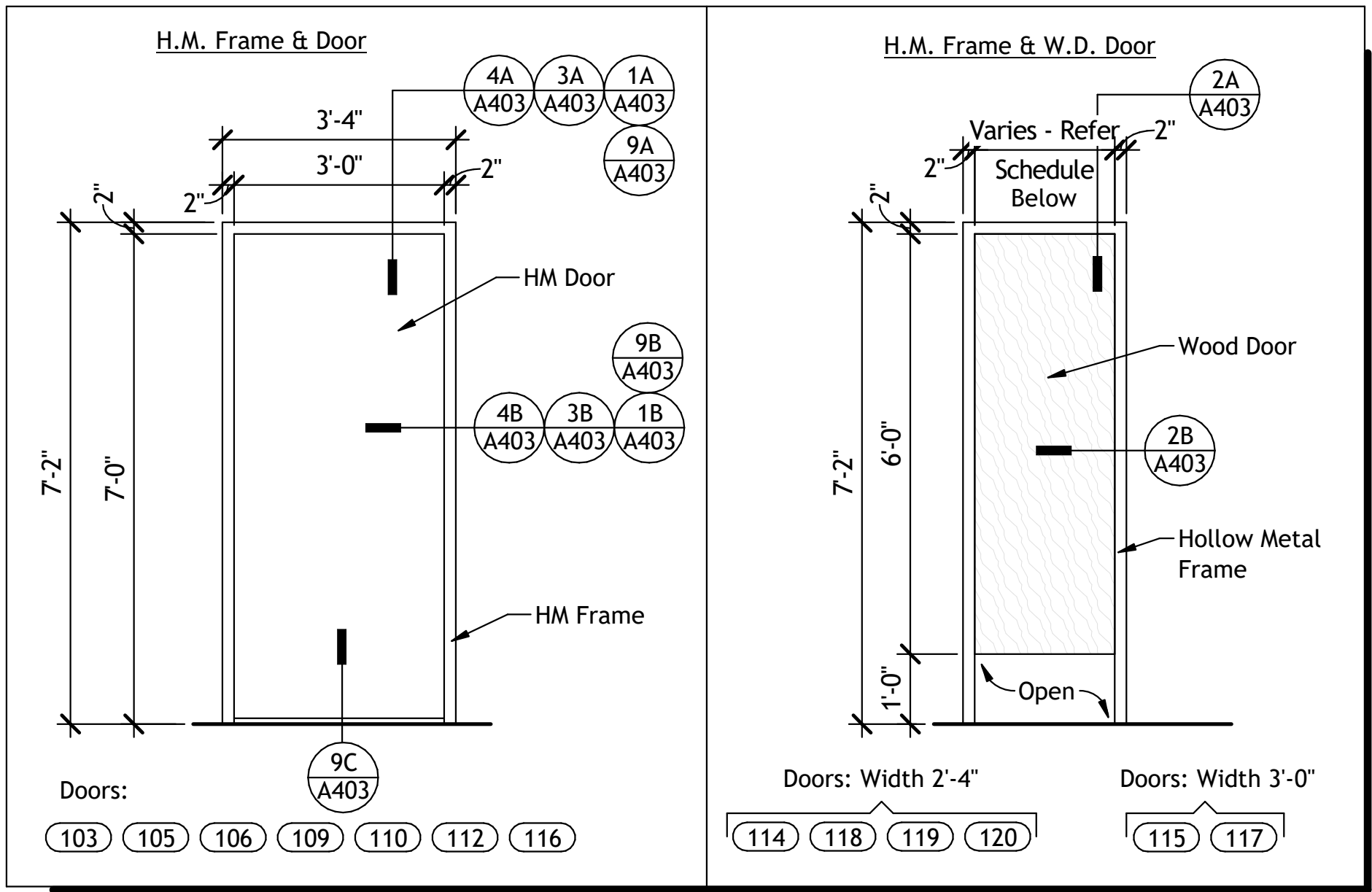
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Acee's Truck Stop	Fulton, Kentucky	Non-Reduced Sheet Size: 24" x 36" Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

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Roof Plan	
PROJECT NO. 24007	
DRAWING ISSUED DATE: 10/09/24	
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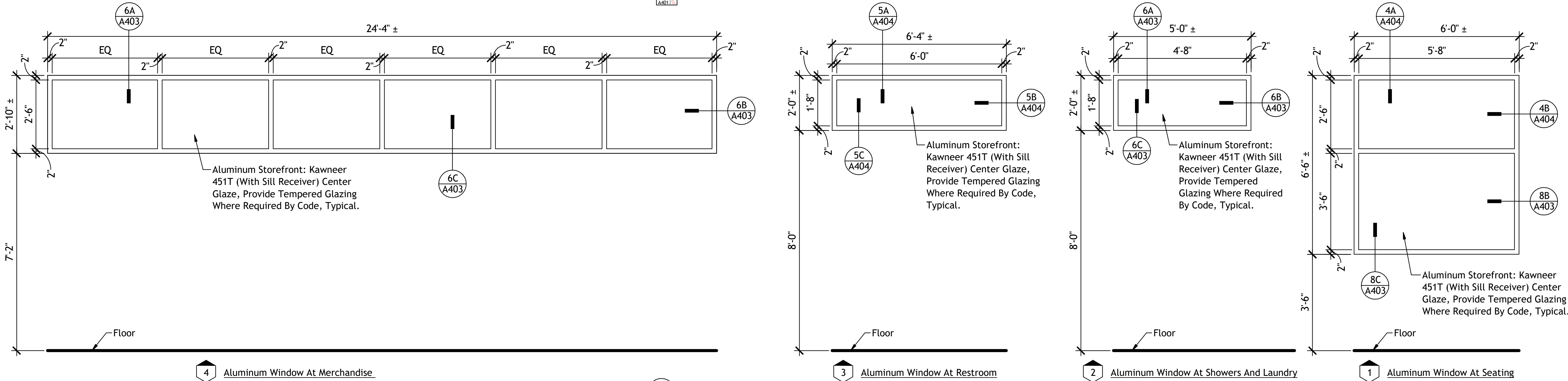
### Door Schedule General Notes

- A. All Hollow Metal (HM) Doors And Frames Shall Be Welded At Frame Seams, Factory Primed, And Factory Prepped To Receive Specified Hardware.
- B. Contractor To Verify All Wall Thicknesses Prior To Ordering Frames
- C. Doors Shall Be A Min. 18 Gauge And Frames Shall Be A Min. 16 Gauge.
- D. All Hollow Metal Doors - Spot Prime Scratches Prior To Painting.
- E. Refer To Specs For All Door Hardware
- F. All exterior doors and frames shall be factory galvanized.

See Sheet A402 For Aluminum Storefront Doors (101, 102, 107, 108, 123, 124)

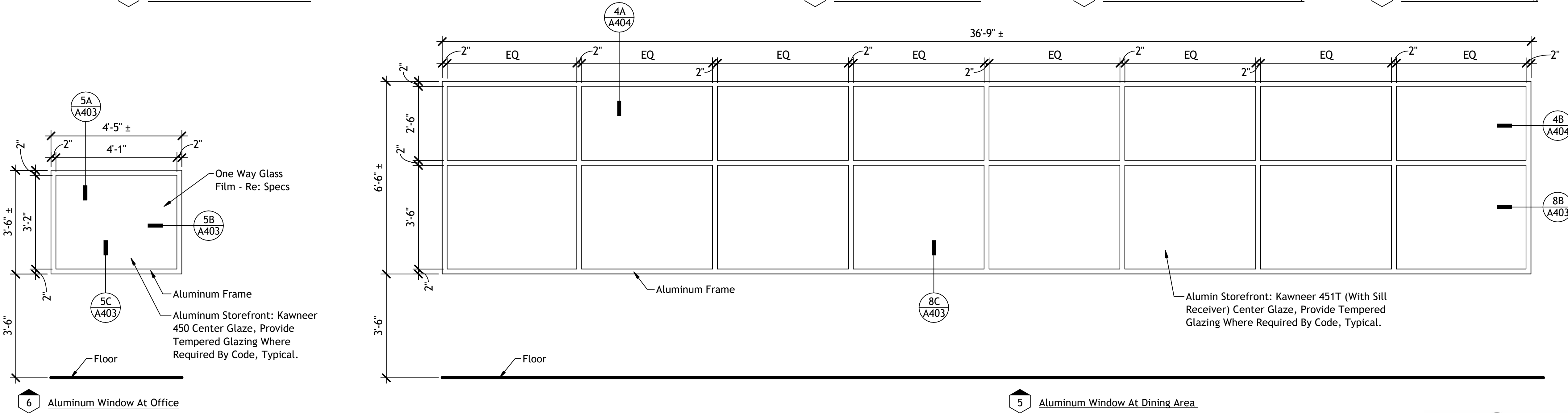
### Door Schedule

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



### Window Schedule

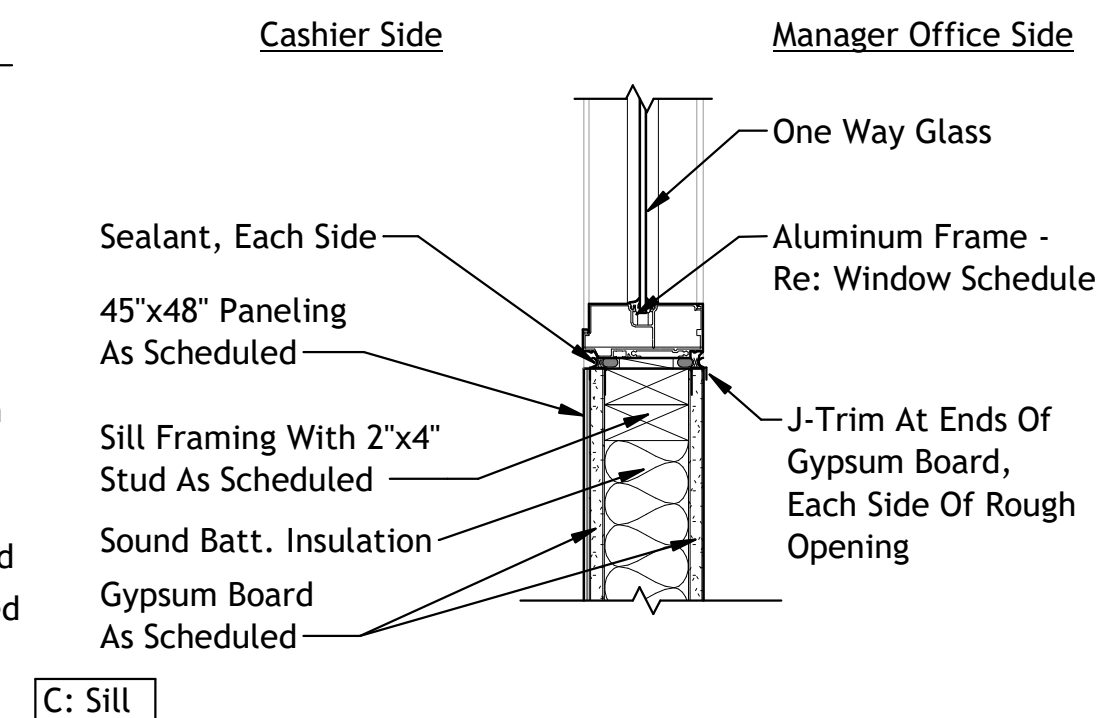
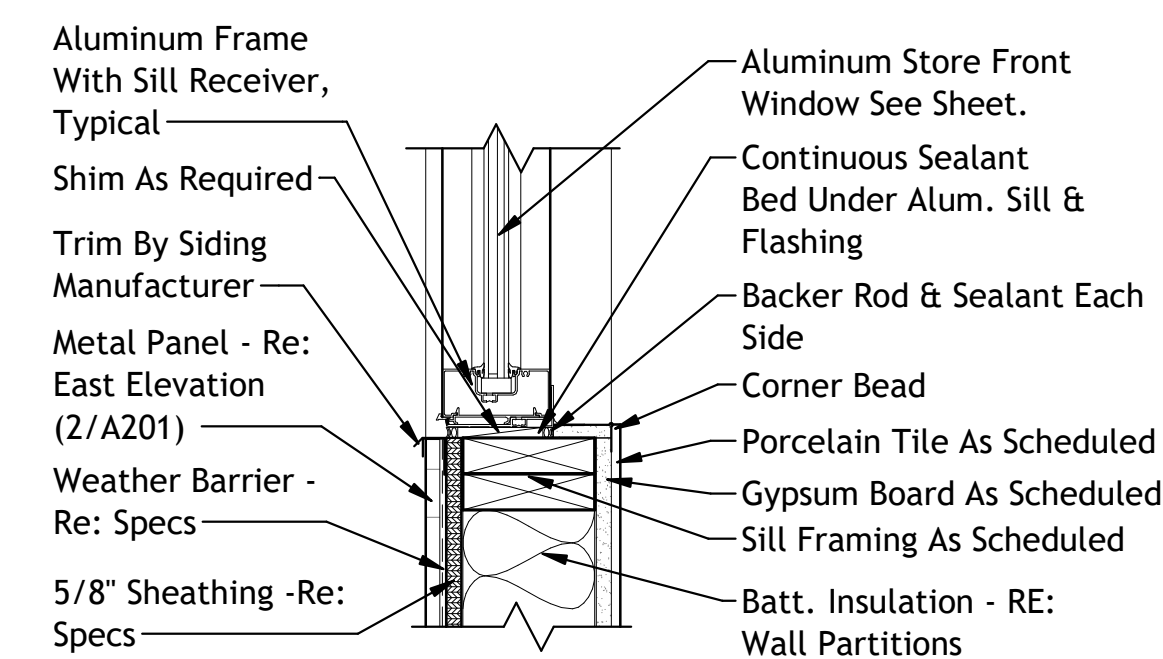
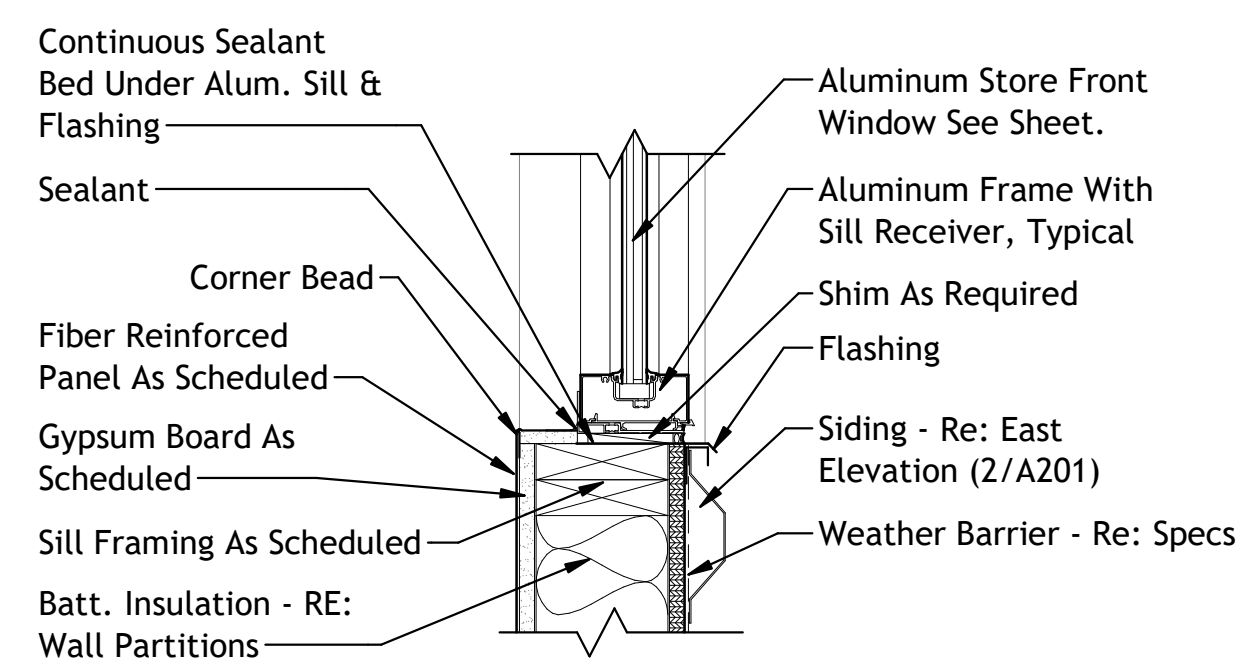
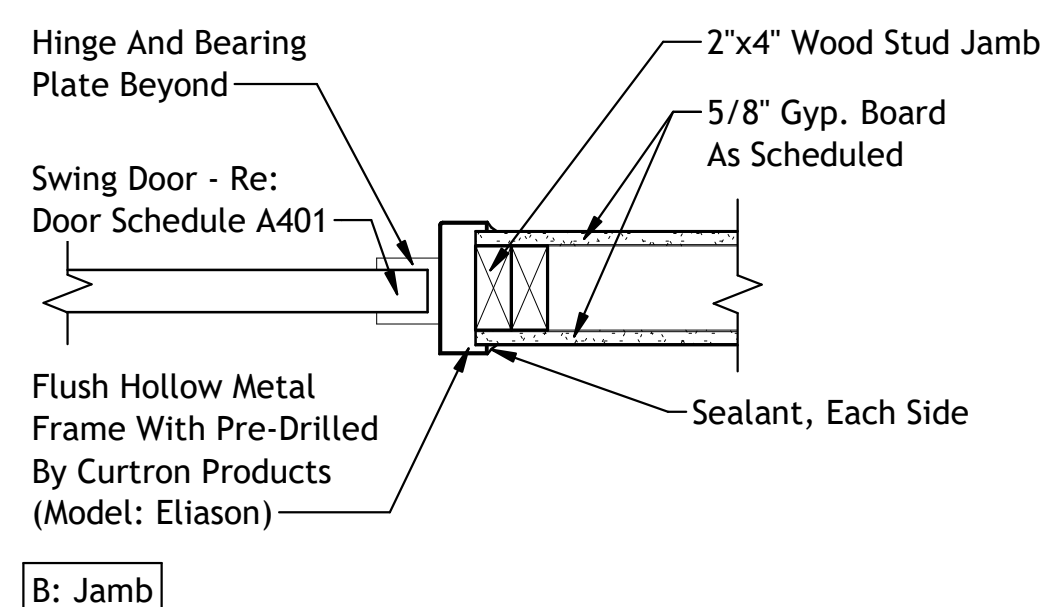
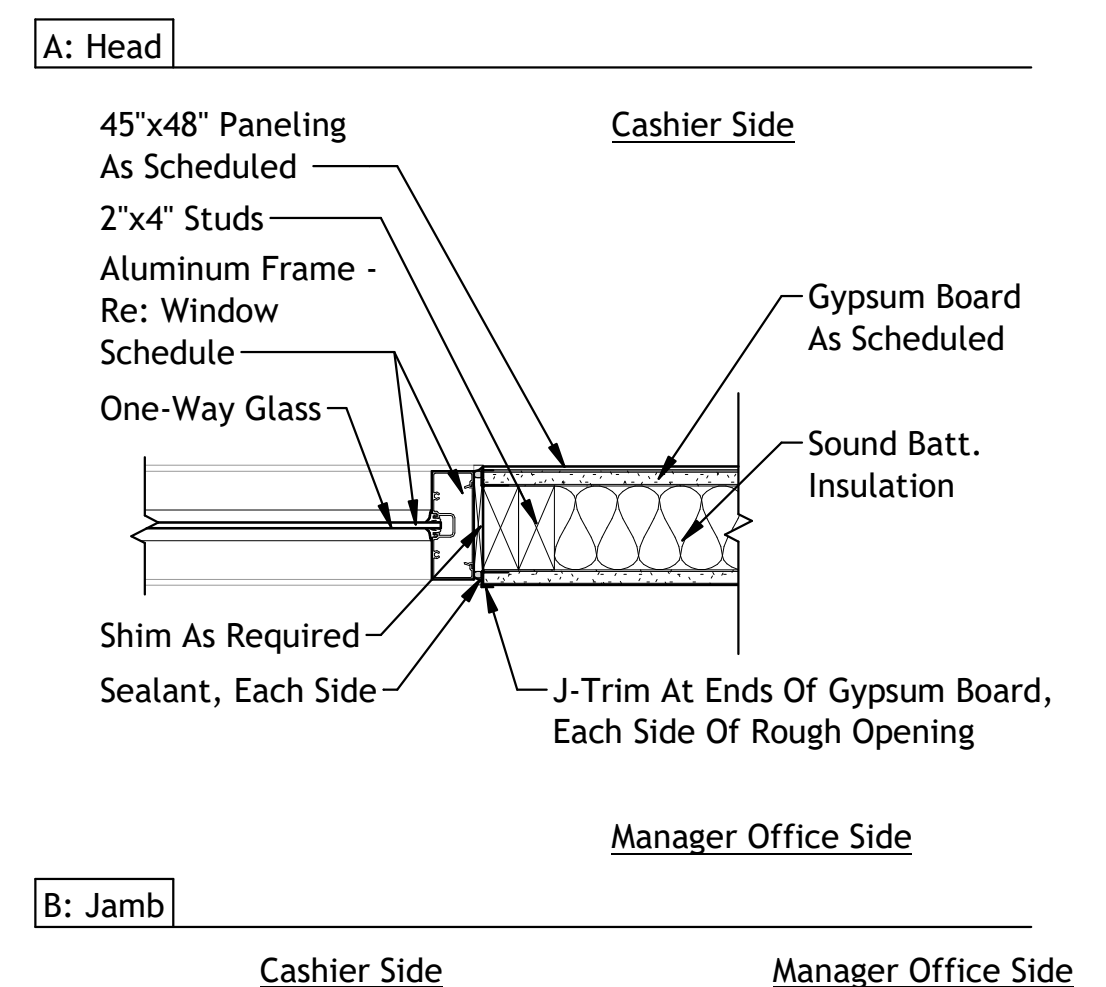
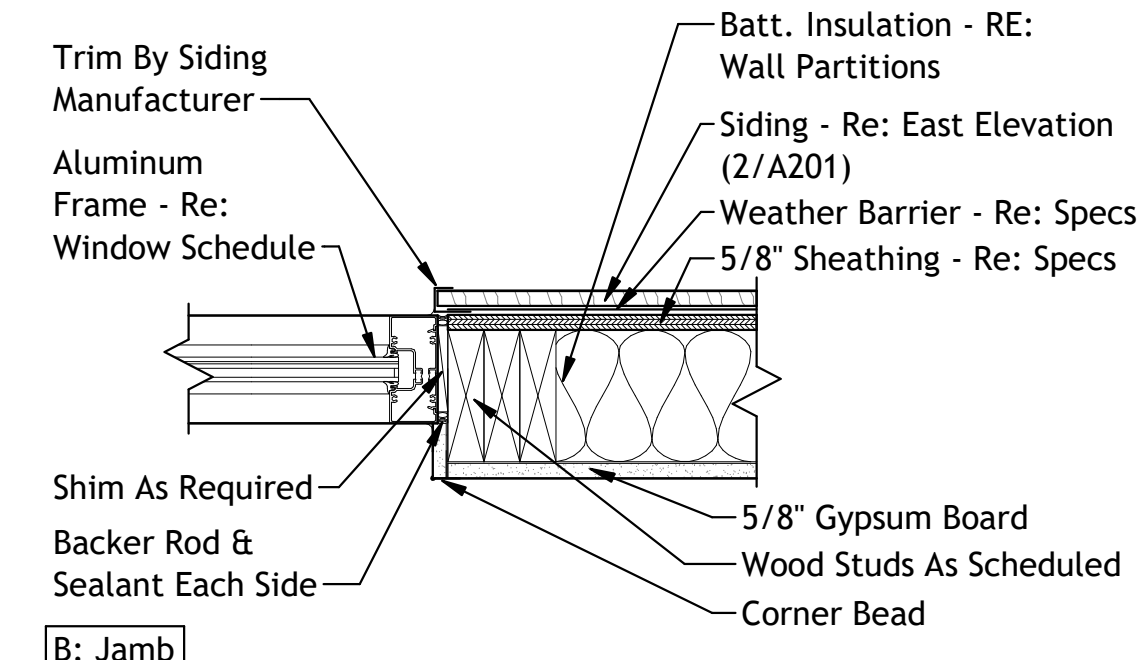
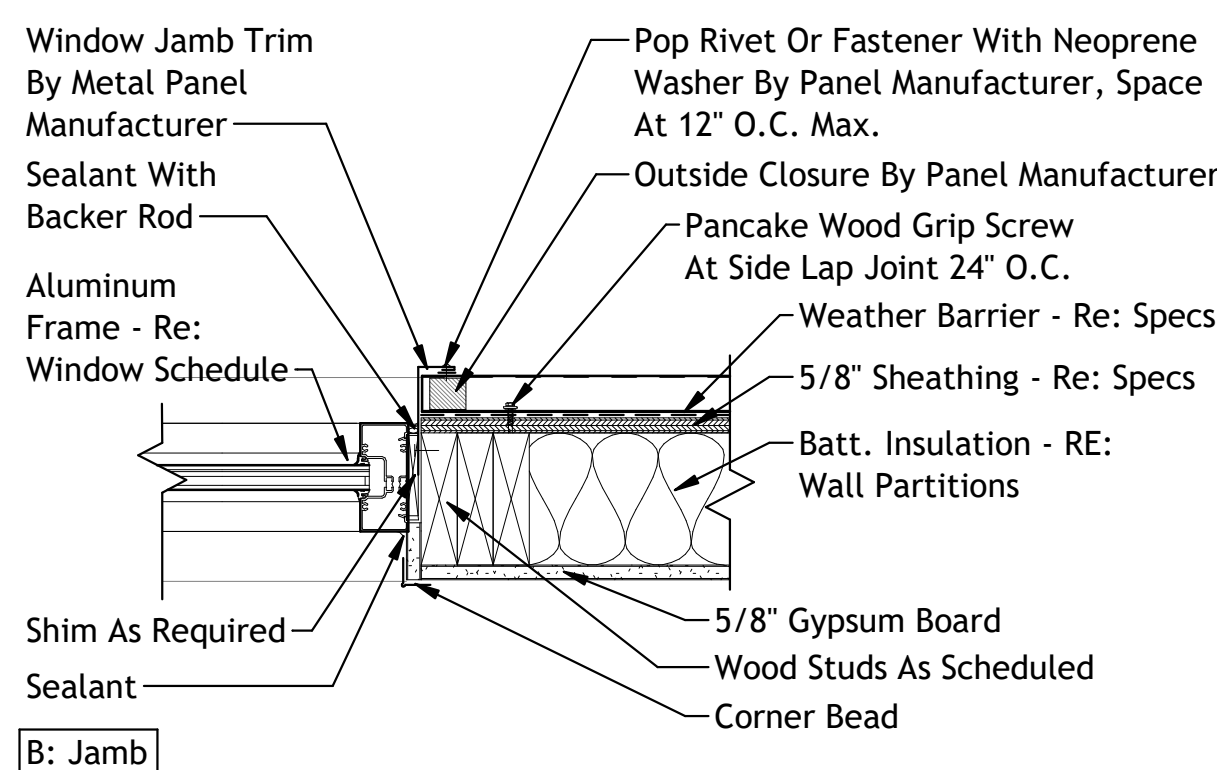
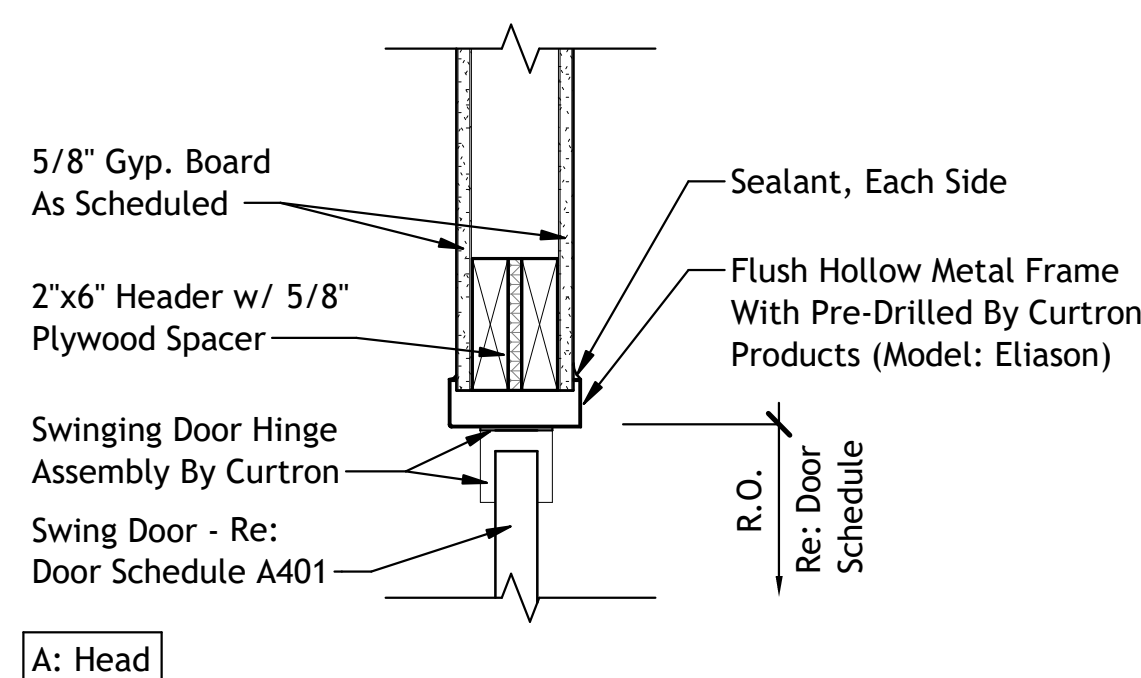
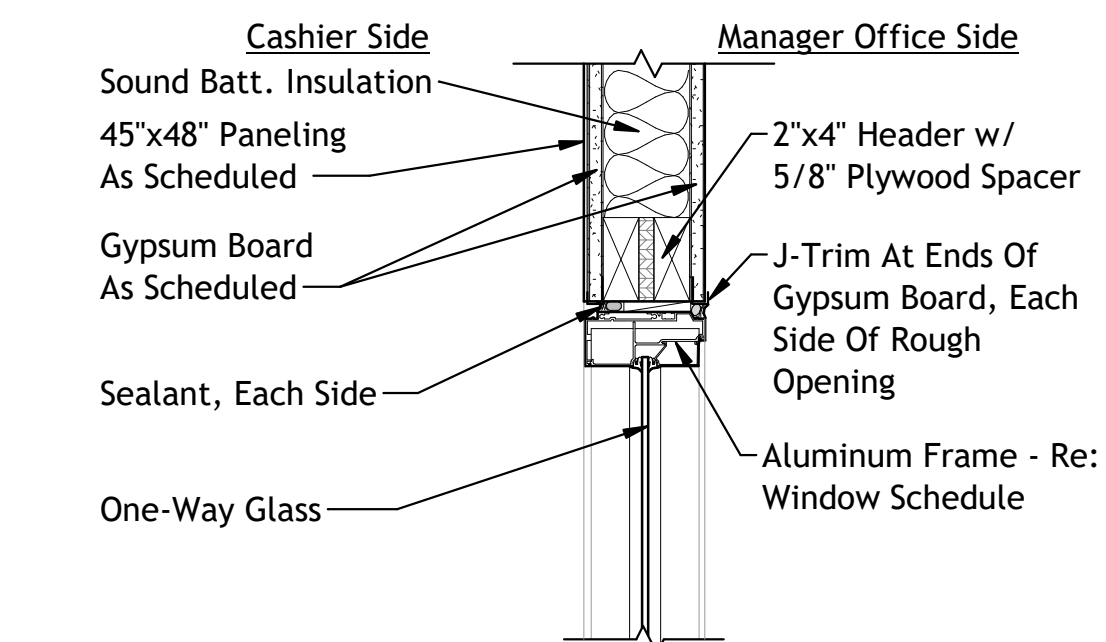
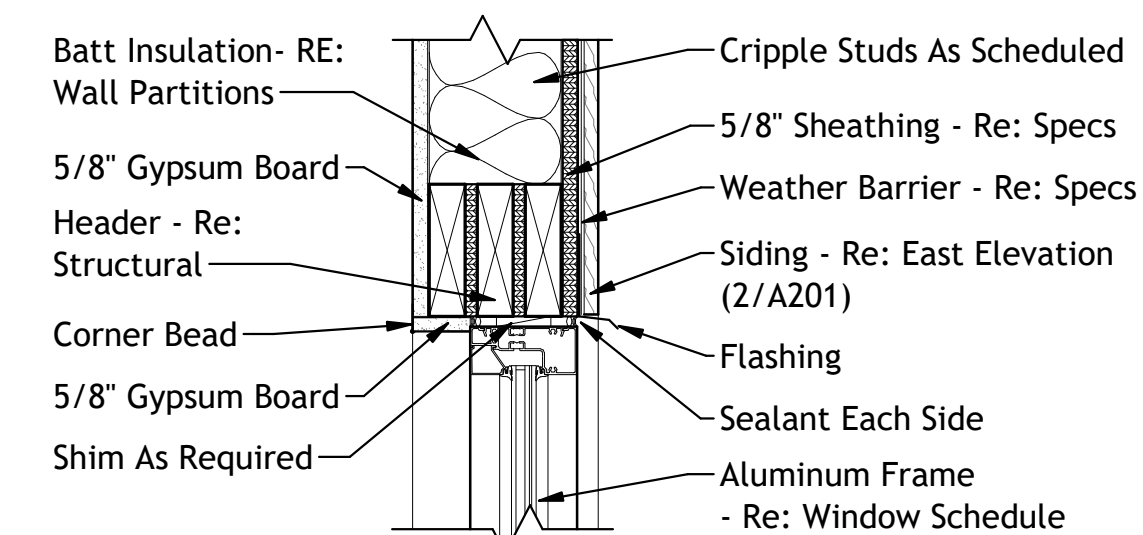
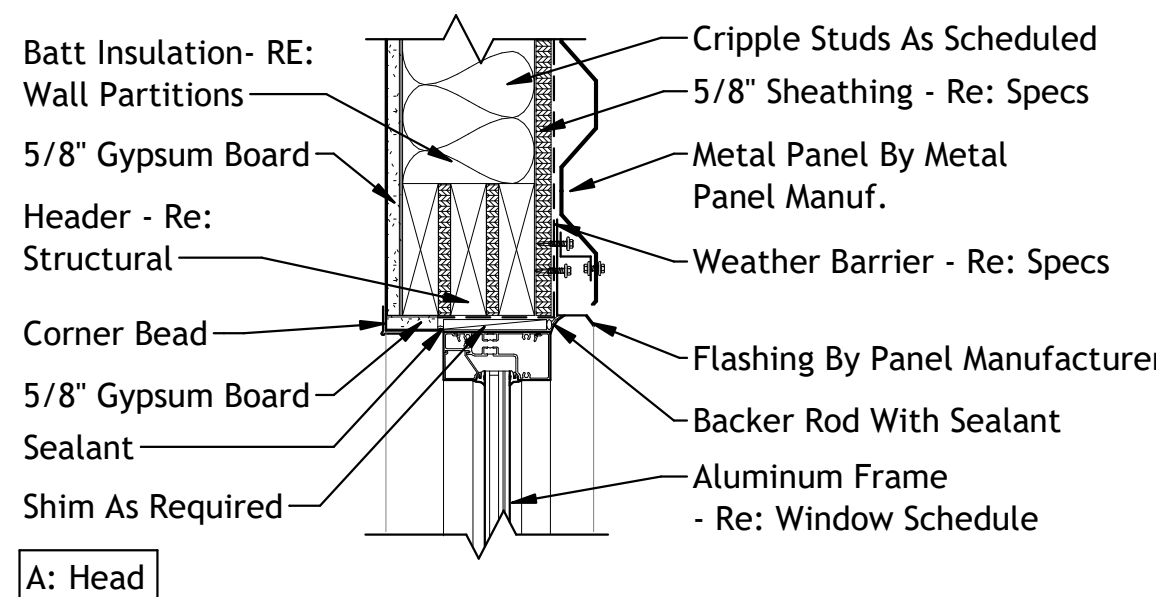
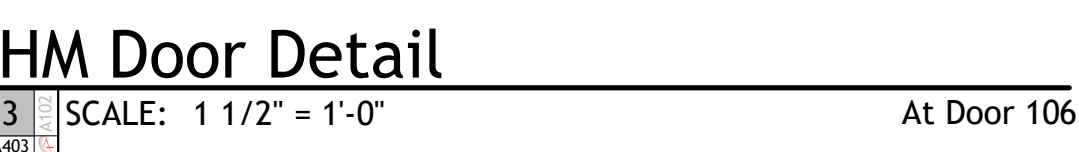
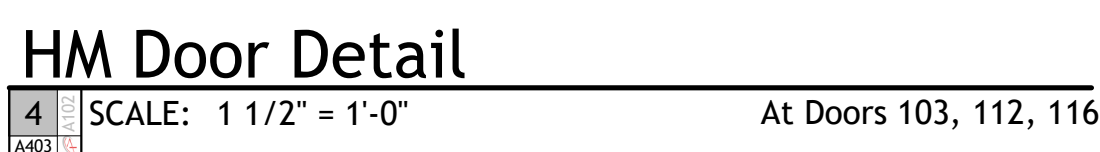
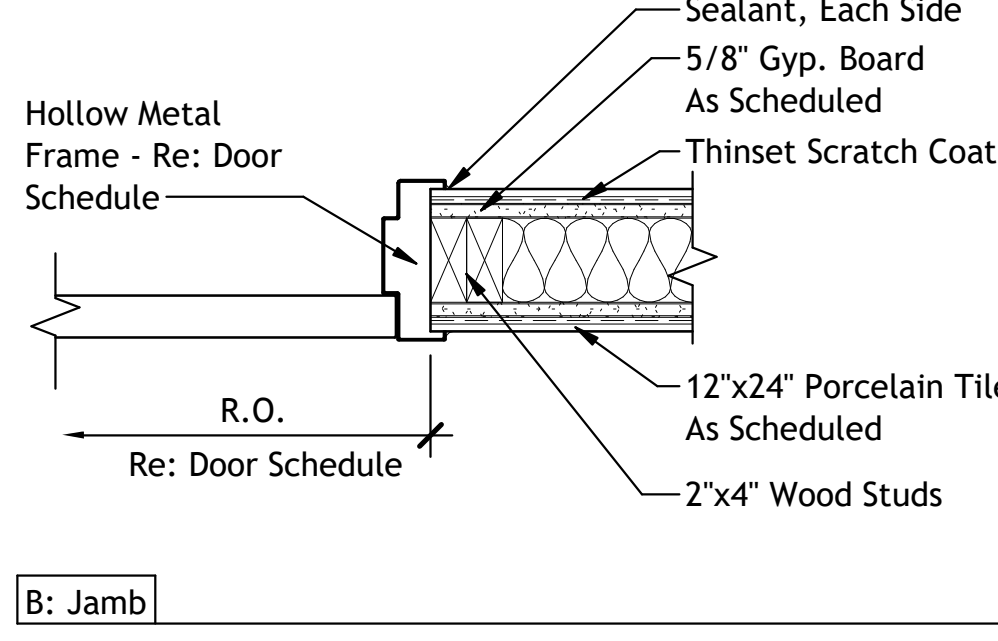
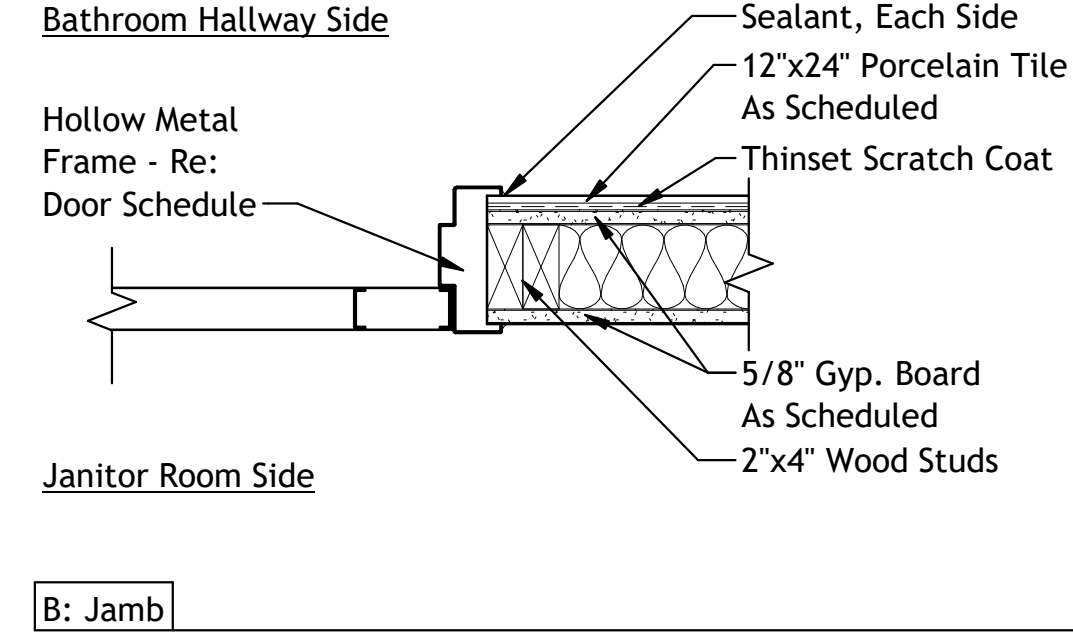
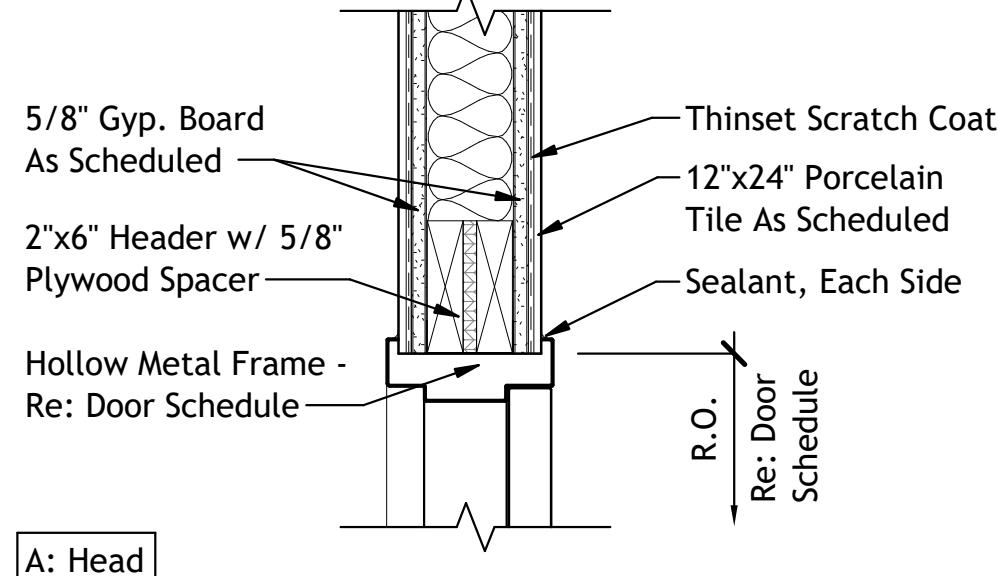
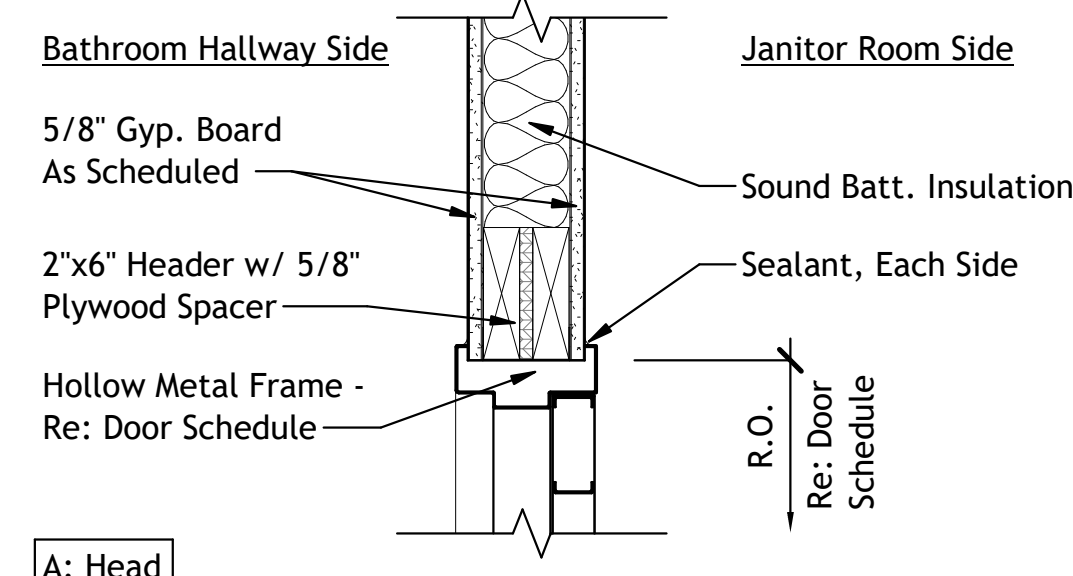
2 SCALE: 1/2" = 1'-0"











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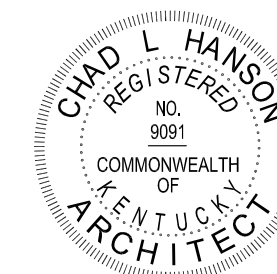
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Acee's Truck Stop
Fulton, Kentucky

Non-Reduced Sheet Size: 24" x 36"

Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standards.

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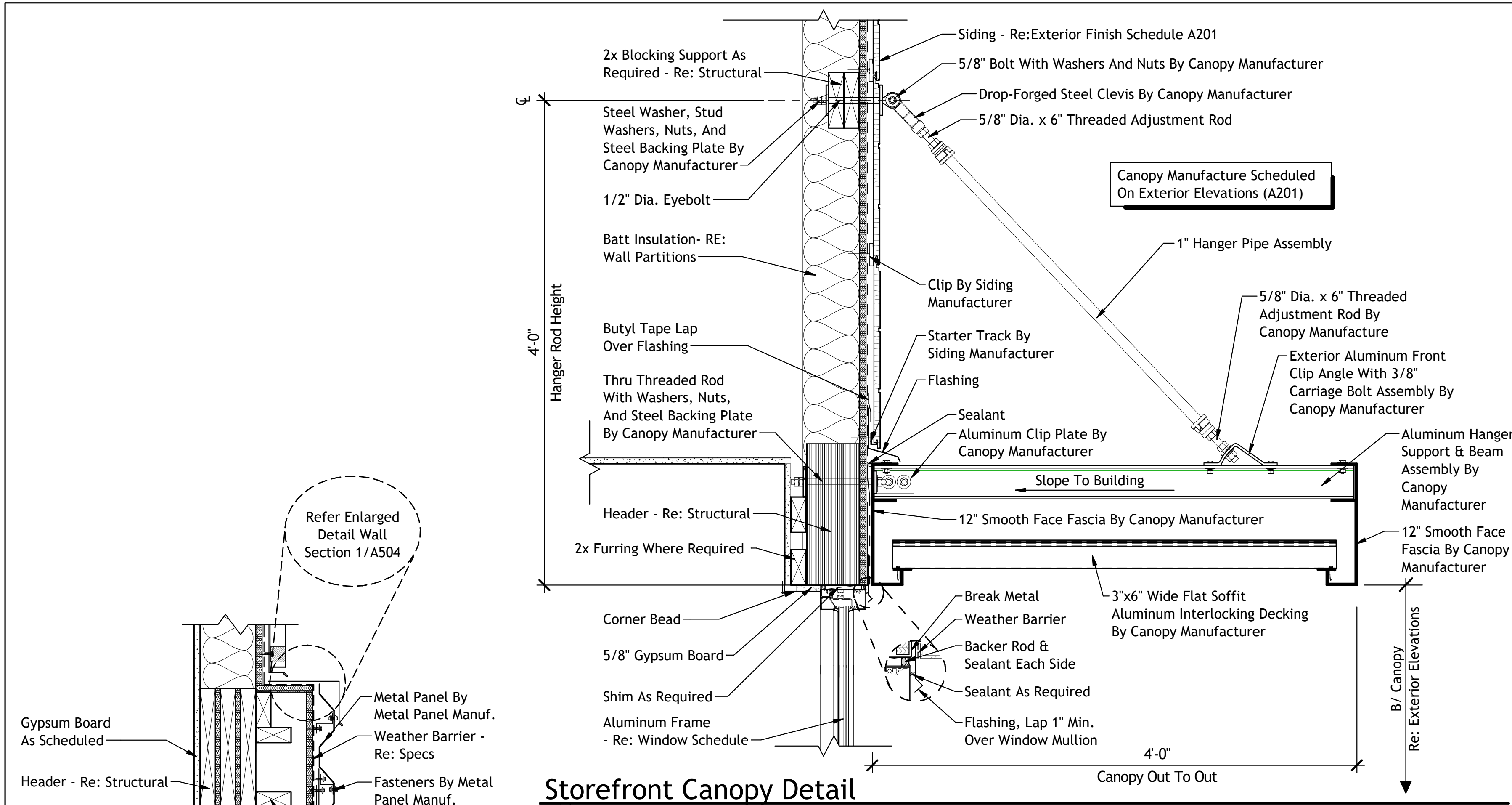
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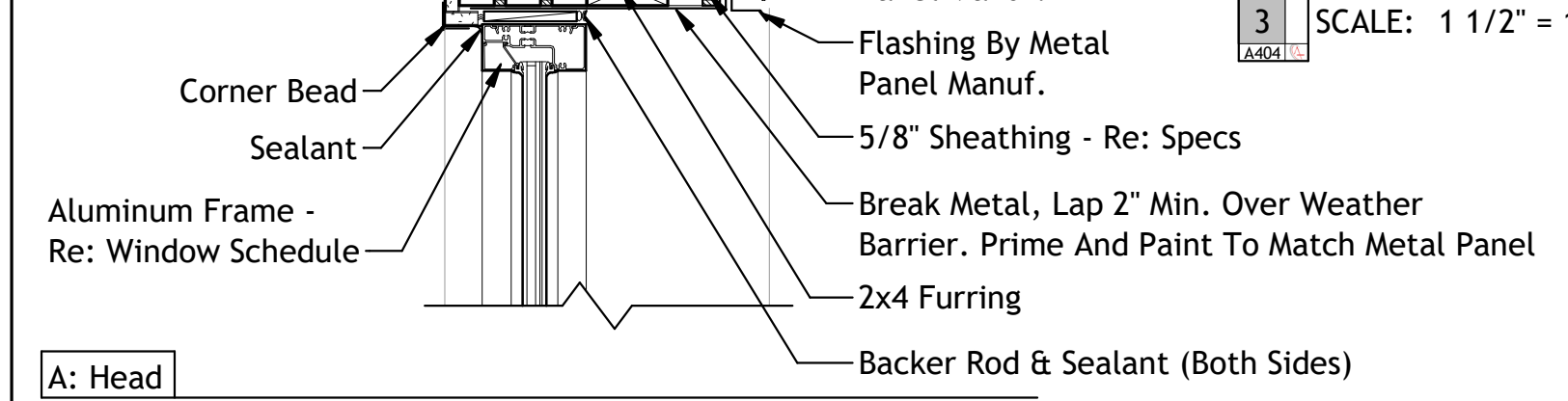
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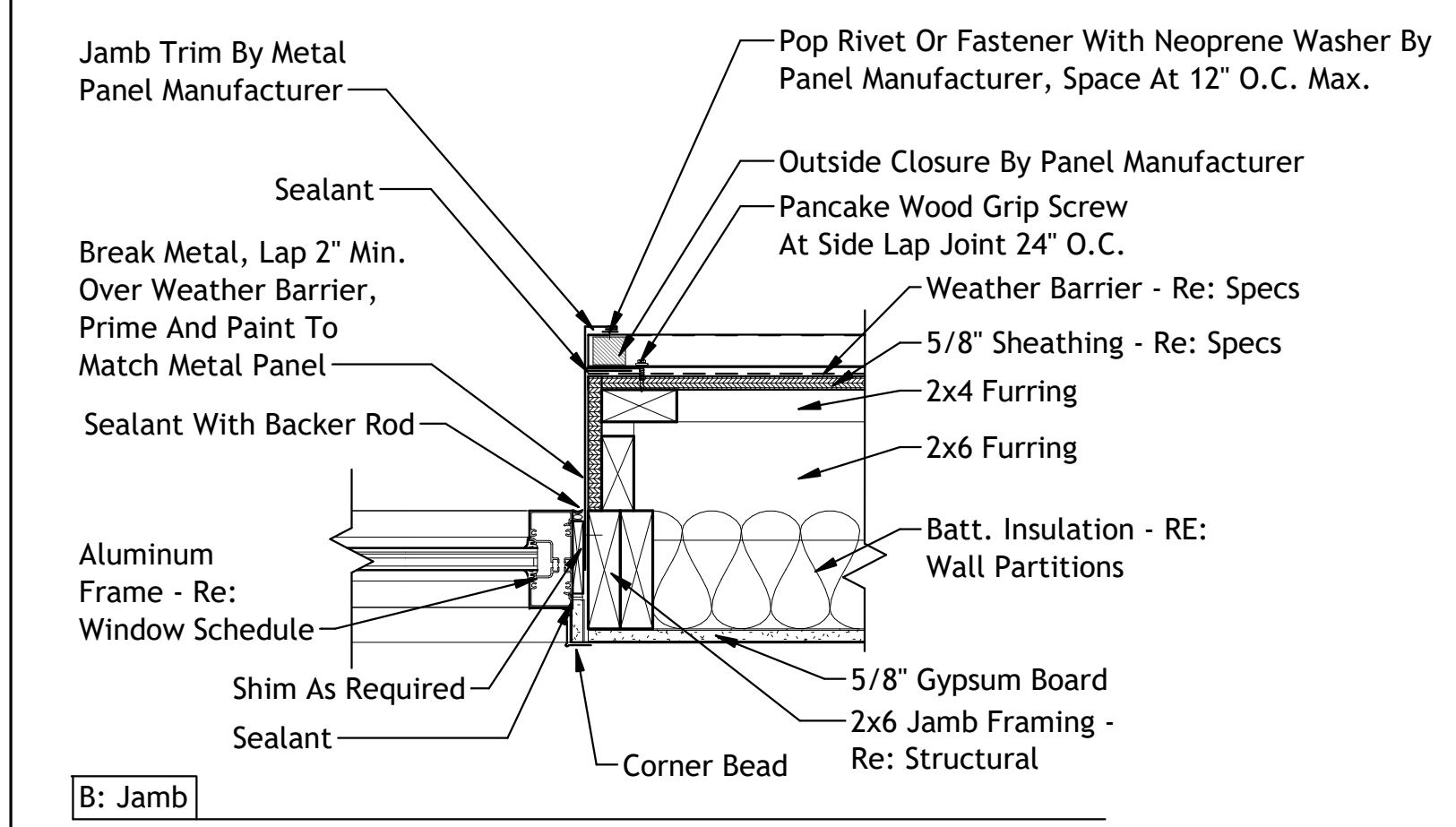




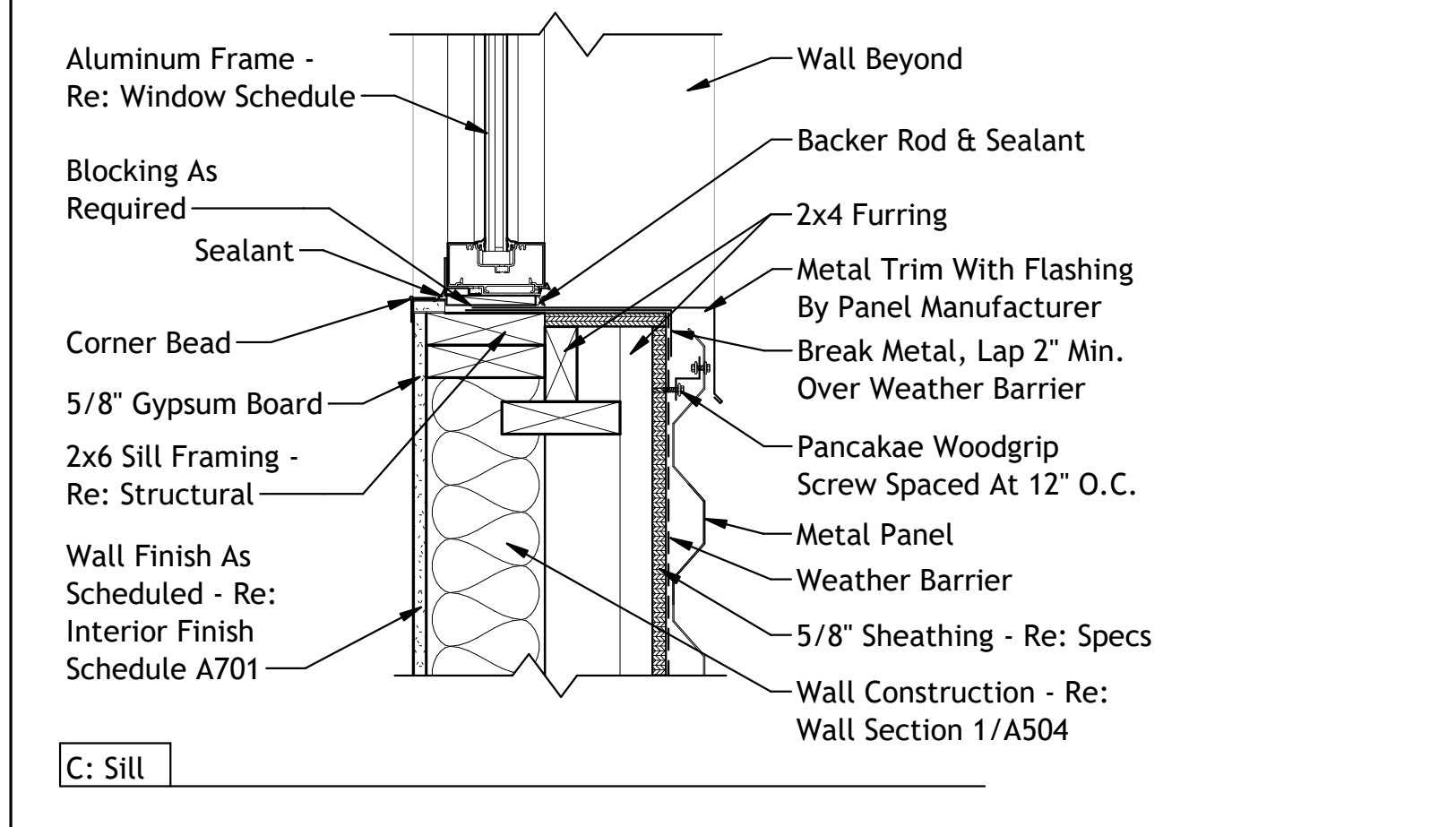
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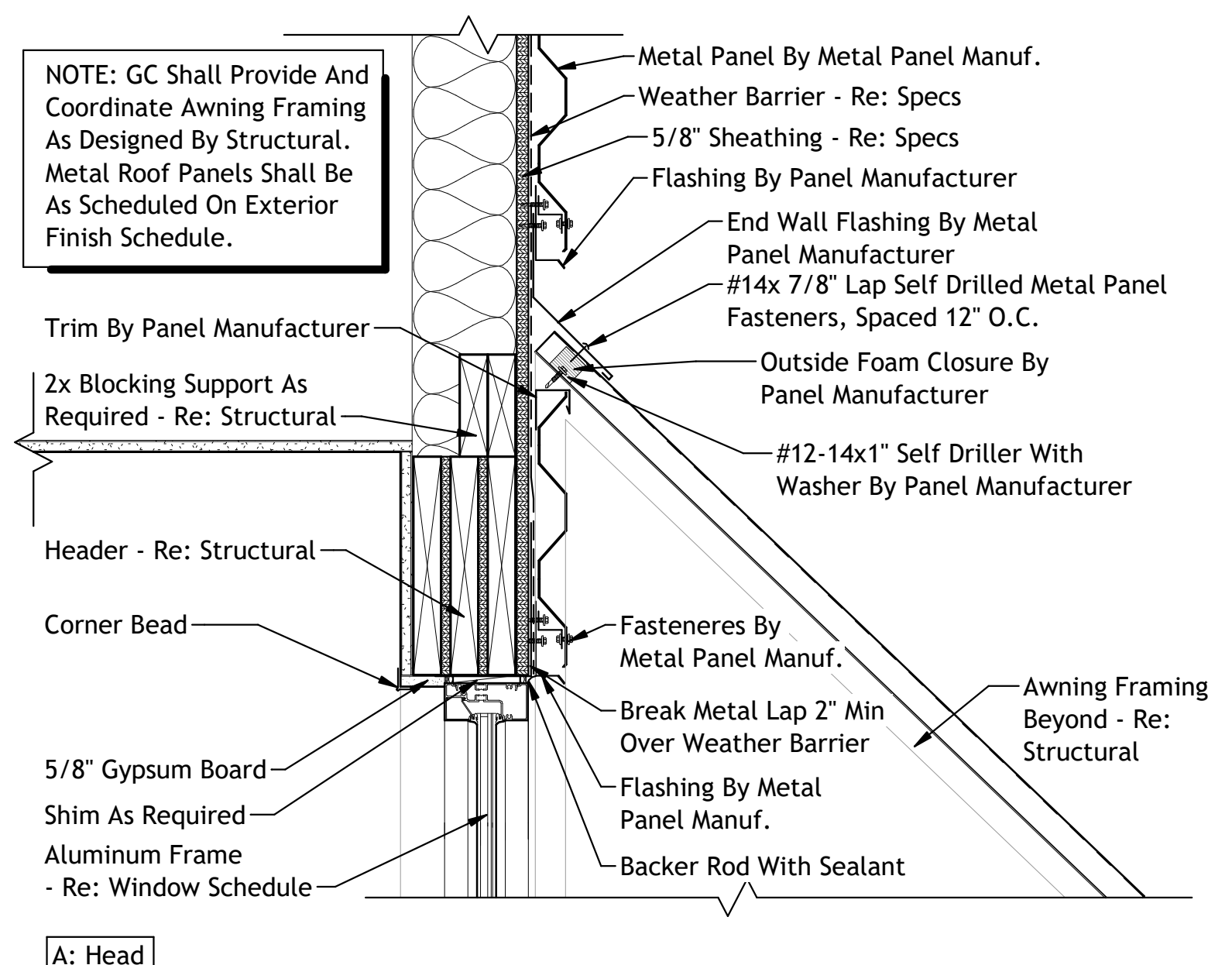
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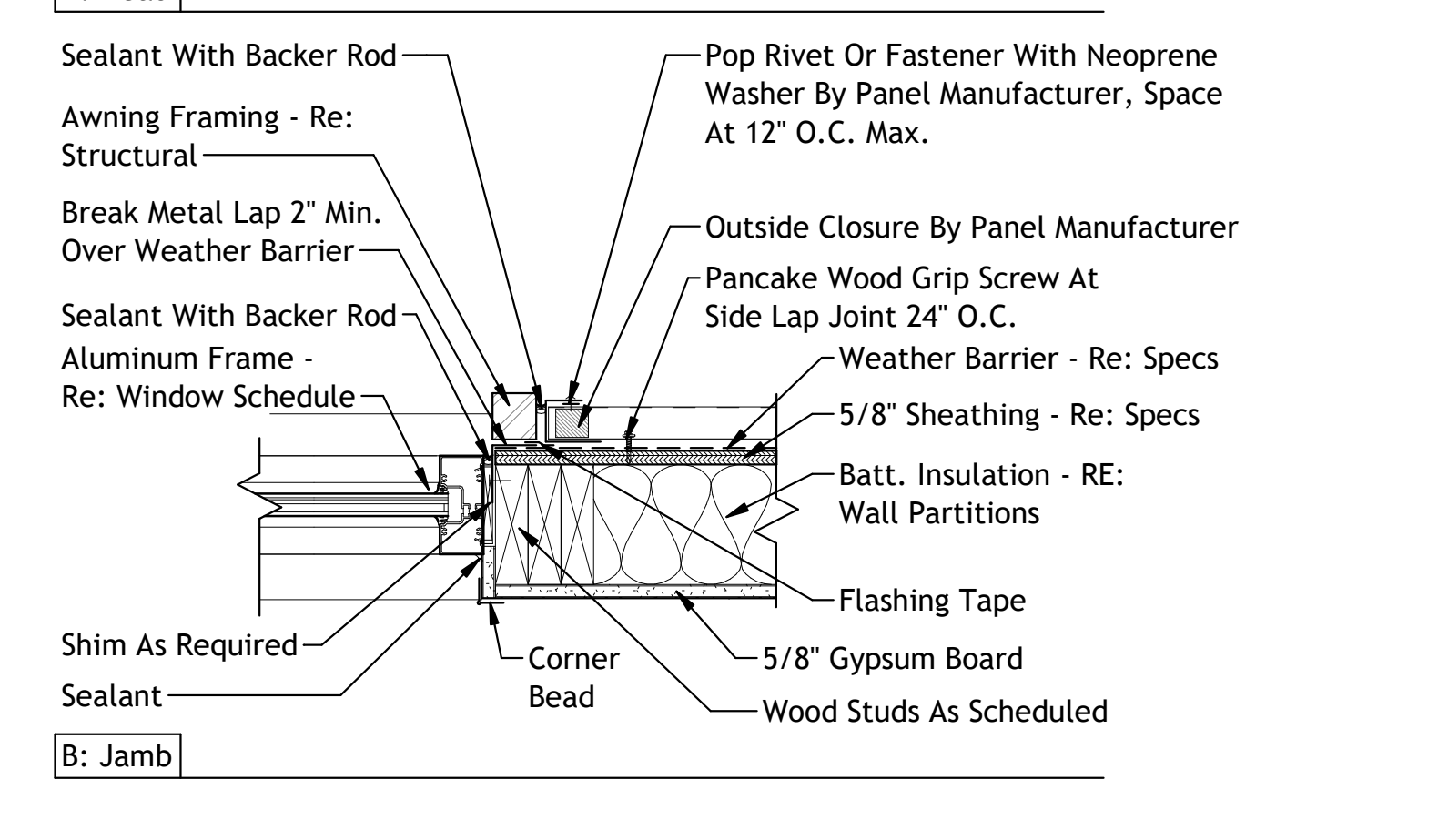
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Aluminum Window Detail

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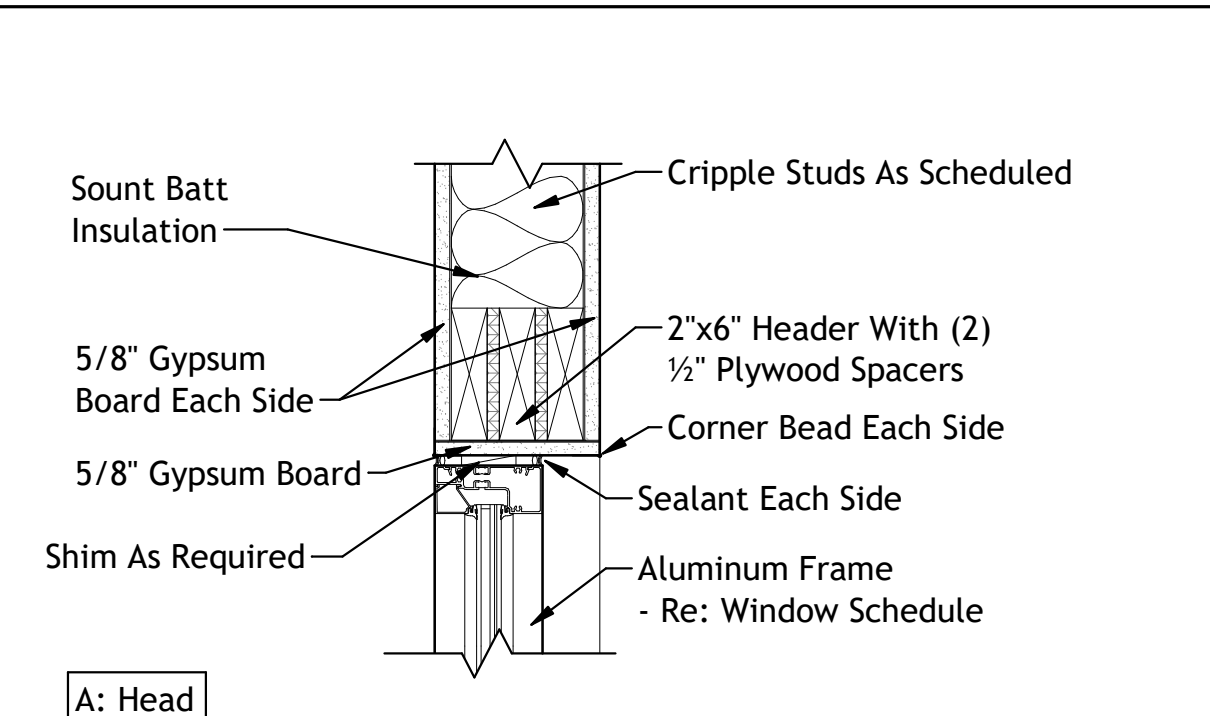
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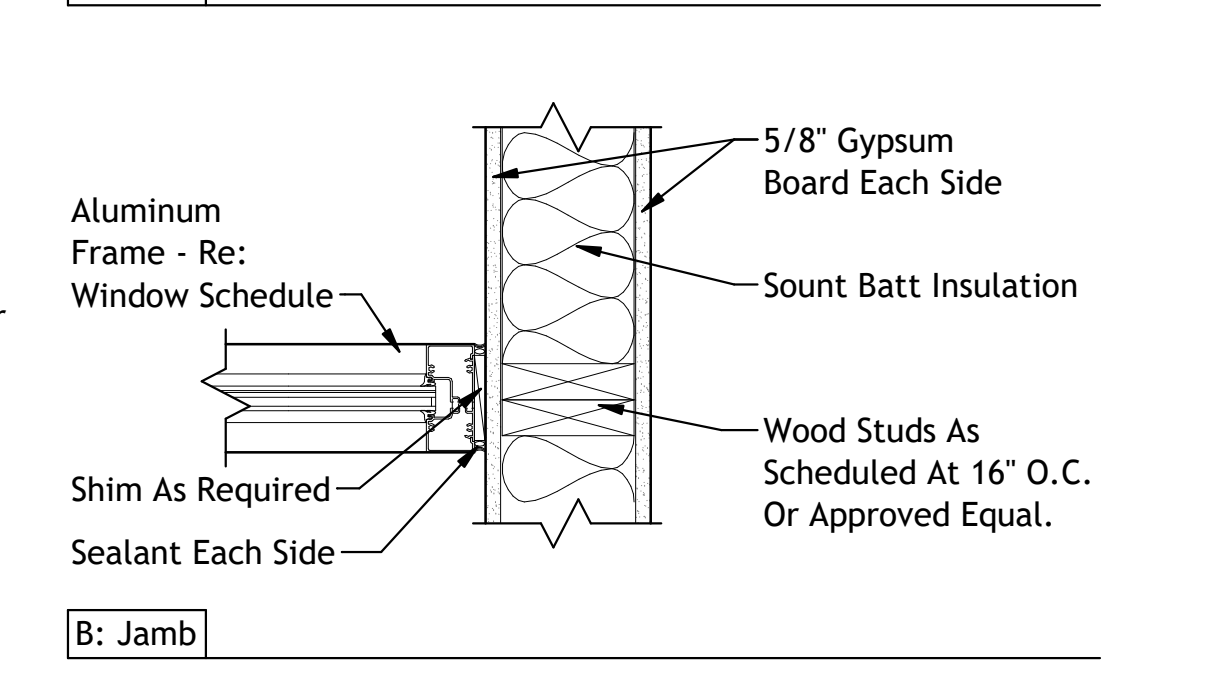
B: Jamb

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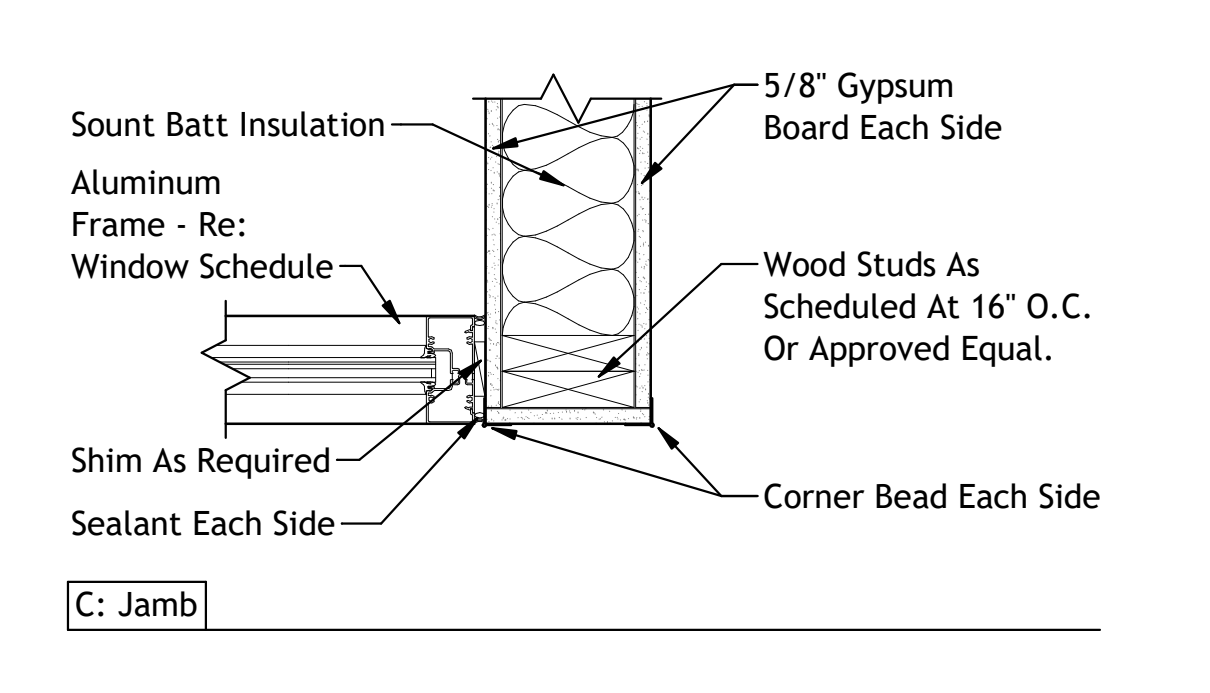
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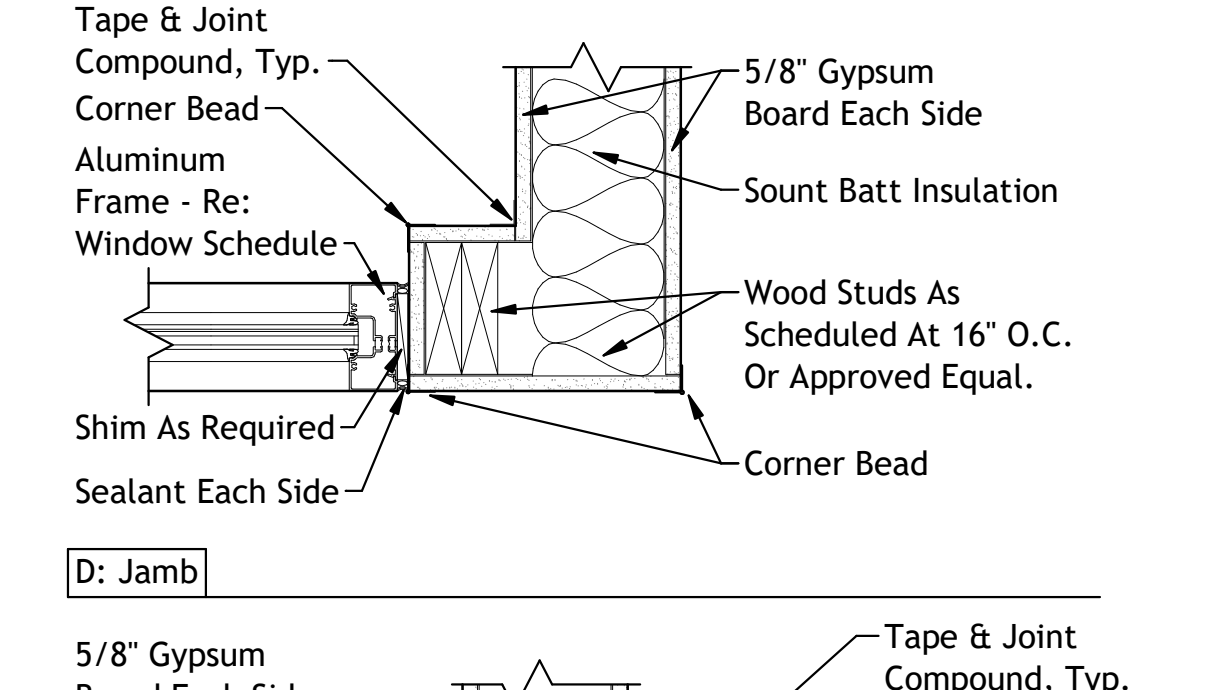
A: Head



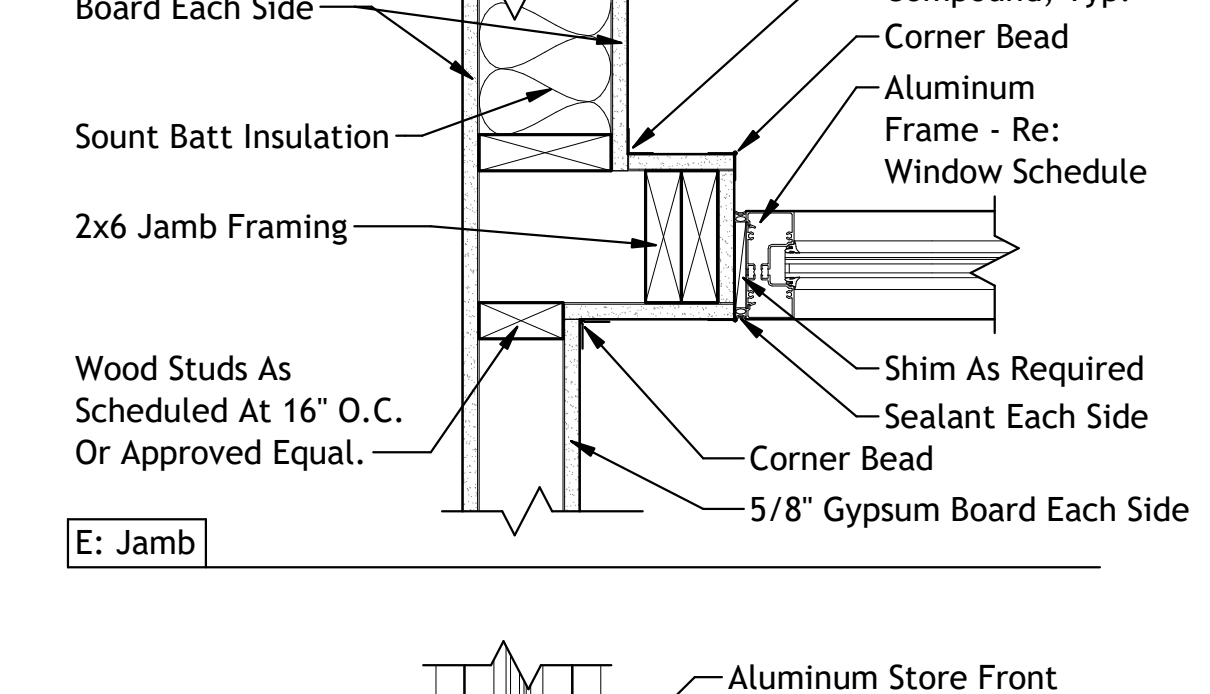
B: Jamb



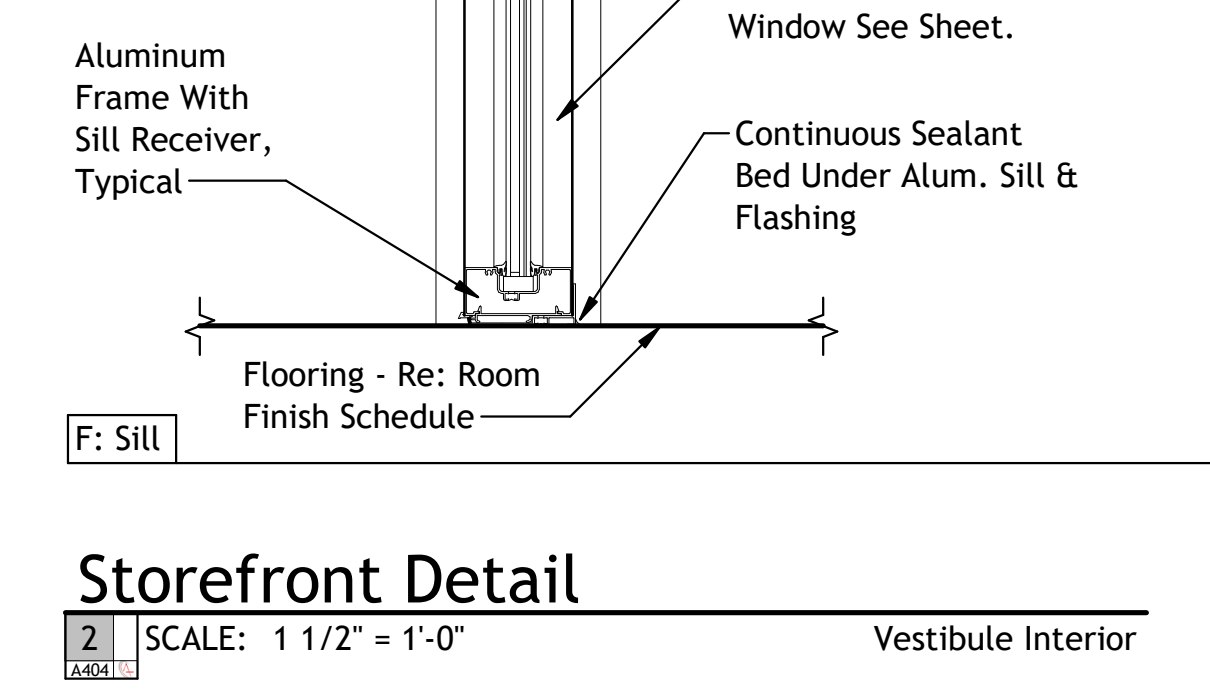
C: Jamb



D: Jamb



E: Jamb

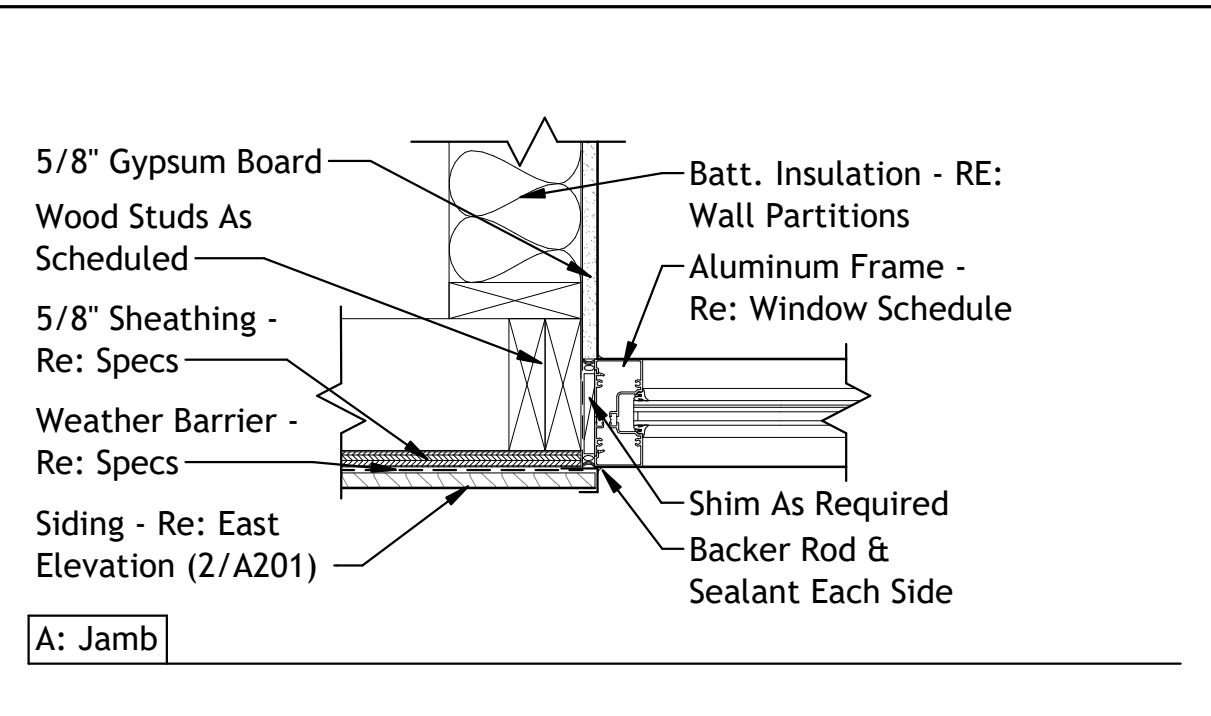


F: Sill

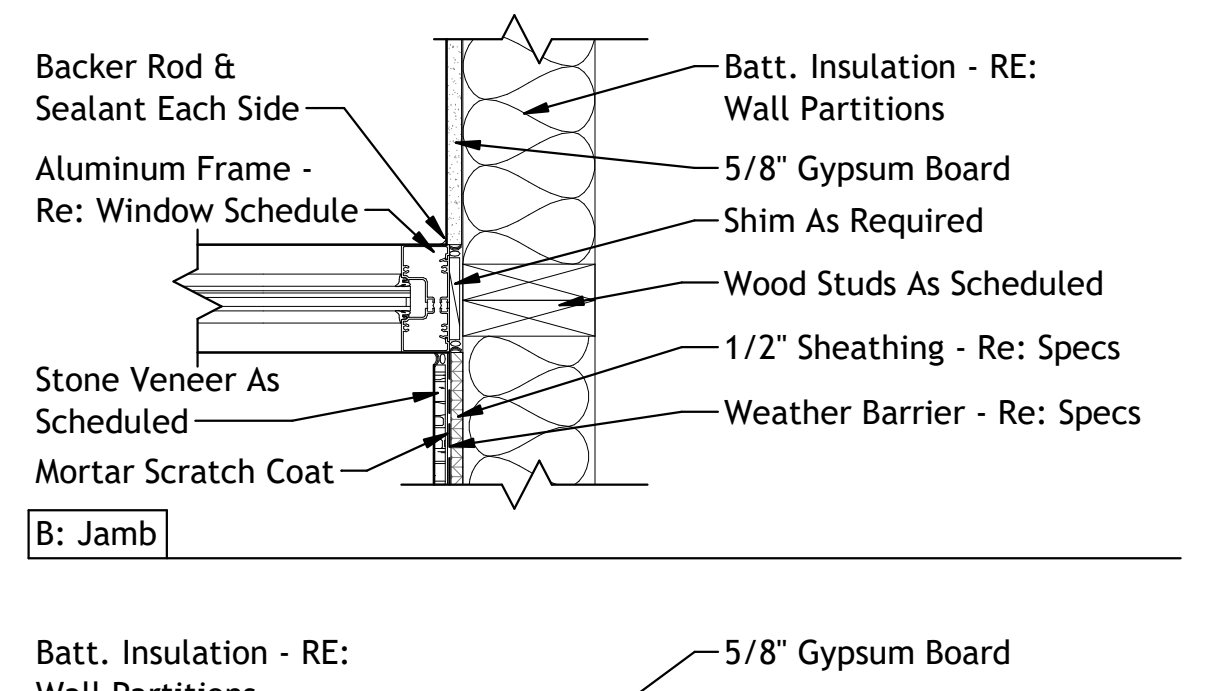
Storefront Detail

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

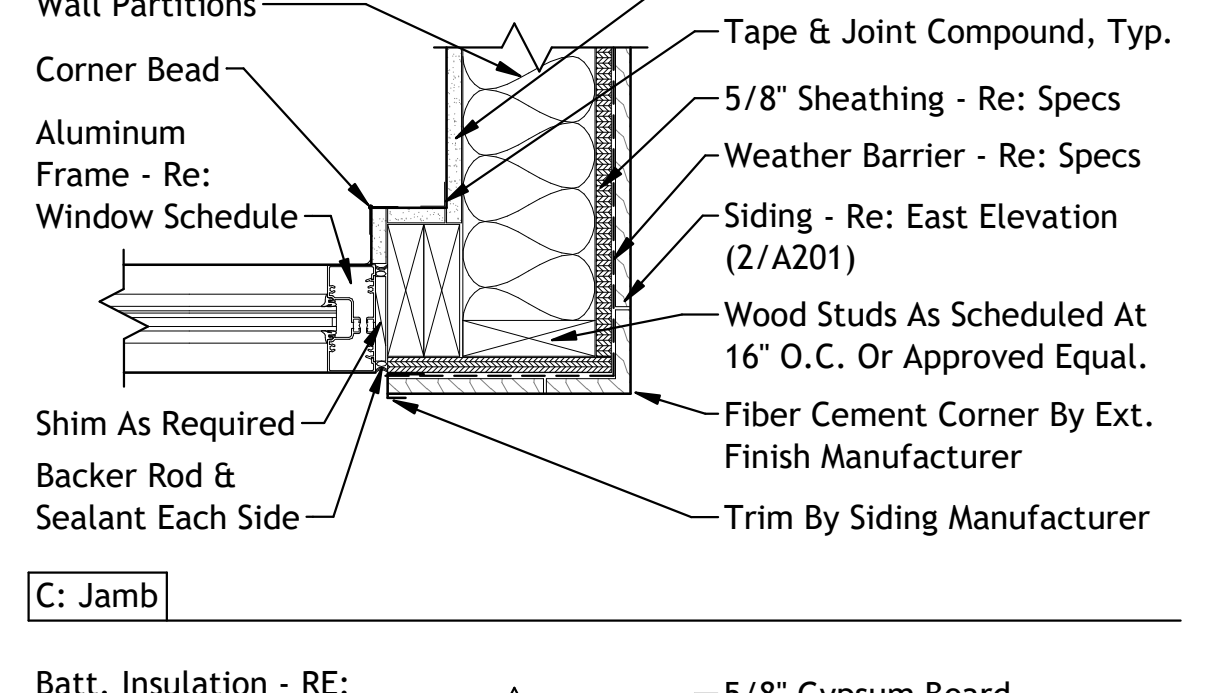
Vestibule Interior



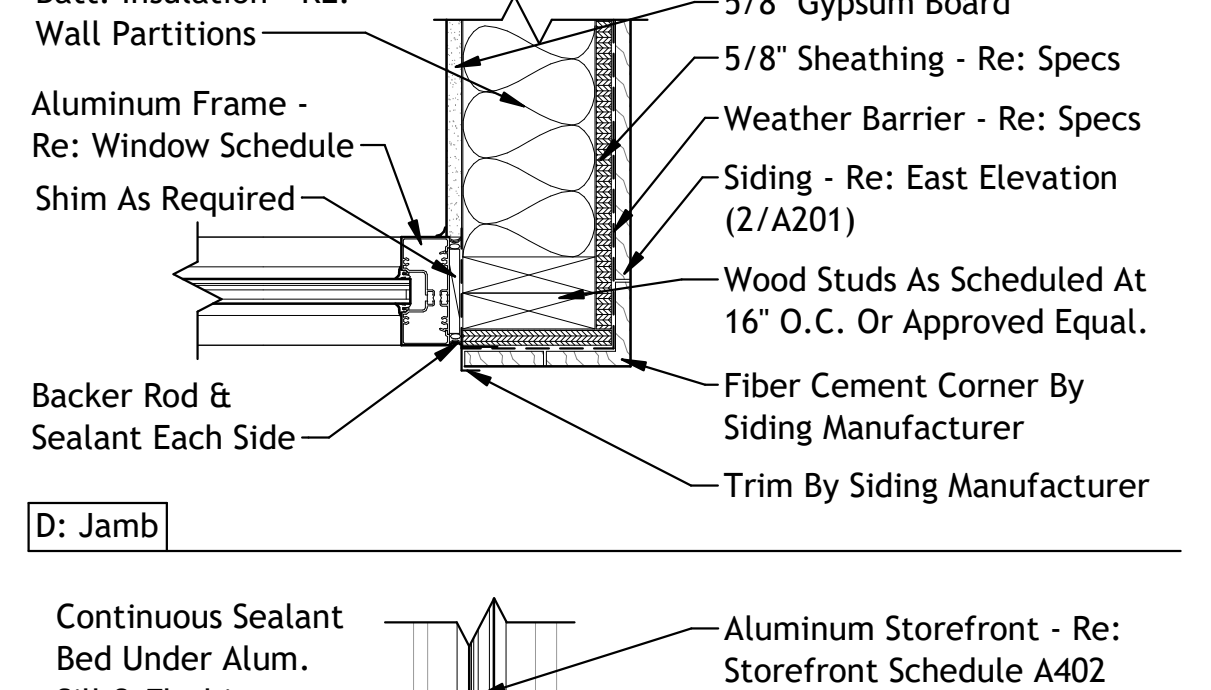
A: Jamb



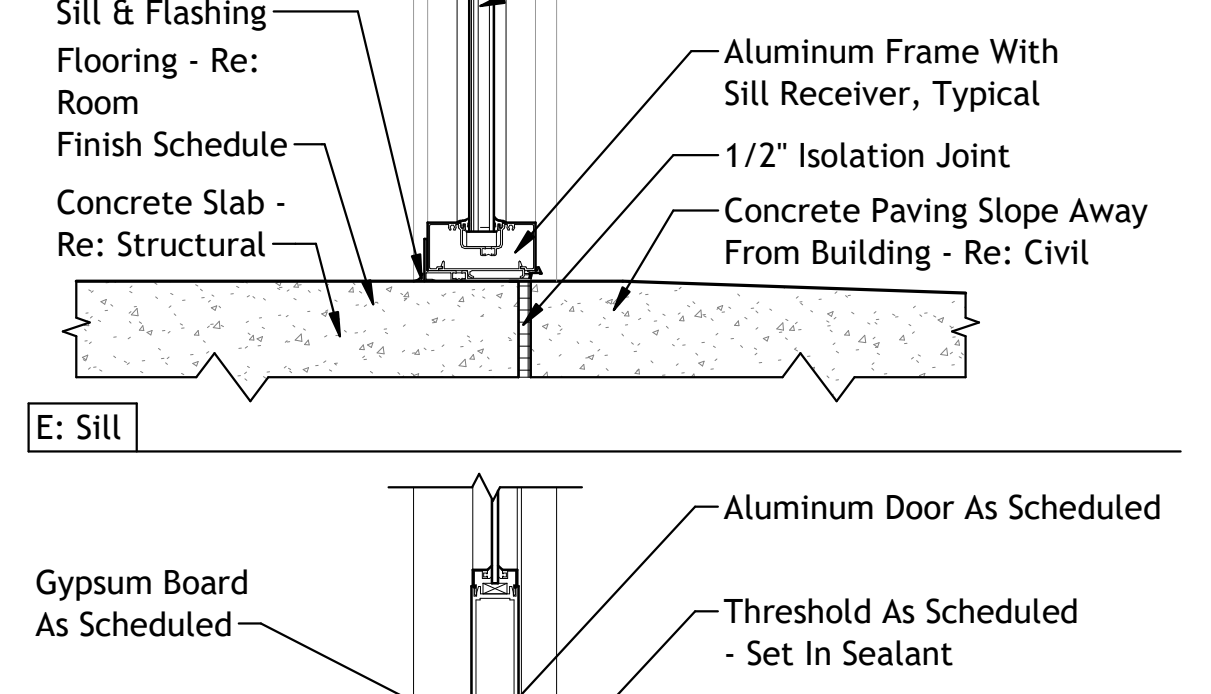
B: Jamb



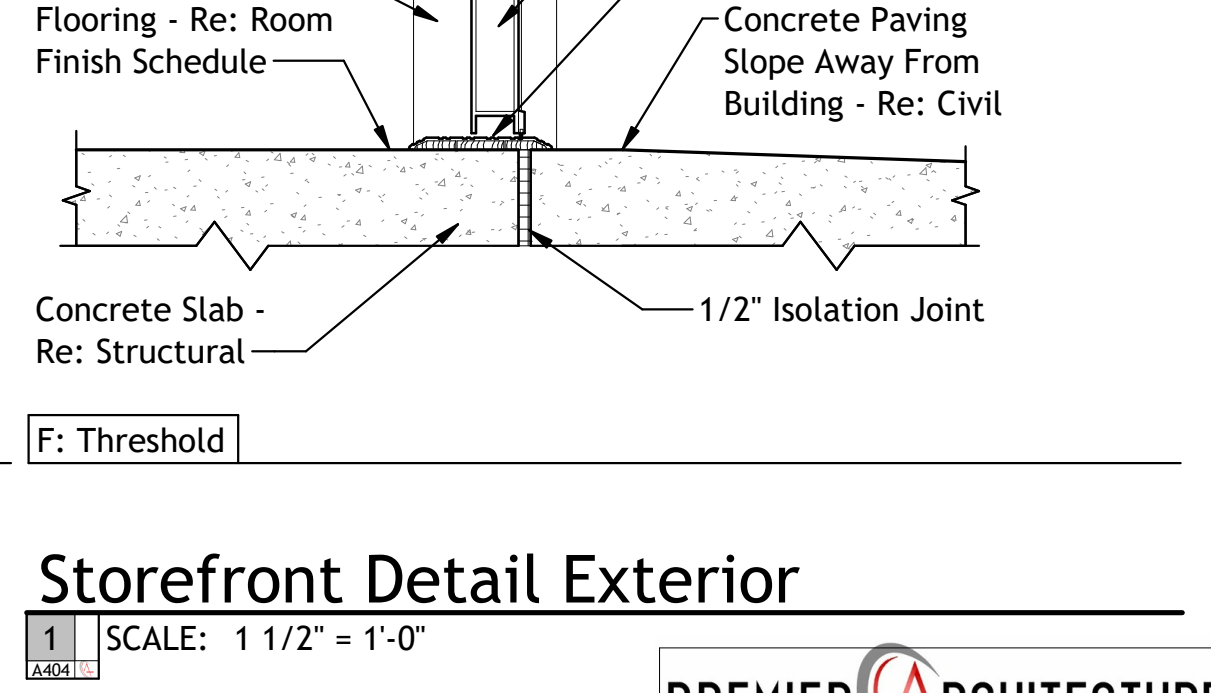
C: Jamb



D: Jamb



E: Sill



F: Threshold

Storefront Detail Exterior

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

PREMIER ARCHITECTURE  
DESIGN AND BUILD  
PADB Project No.: 24007

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REVISION HISTORY

NO.	DESCRIPTION	DATE	APP.
1			

ISSUED FOR

NO.	DESCRIPTION	DATE	APP.
1	Construction Documents		

CHAD L. HANSON  
REGISTERED  
NO. 2991  
COMMONWEALTH OF  
KENTUCKY  
ARCHITECT

Acee's Truck Stop  
Fulton, Kentucky

Non-Reduced Sheet Size: 24" x 36"

Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

DESIGNED	DRAWN
FIELD	FIELD BOOK

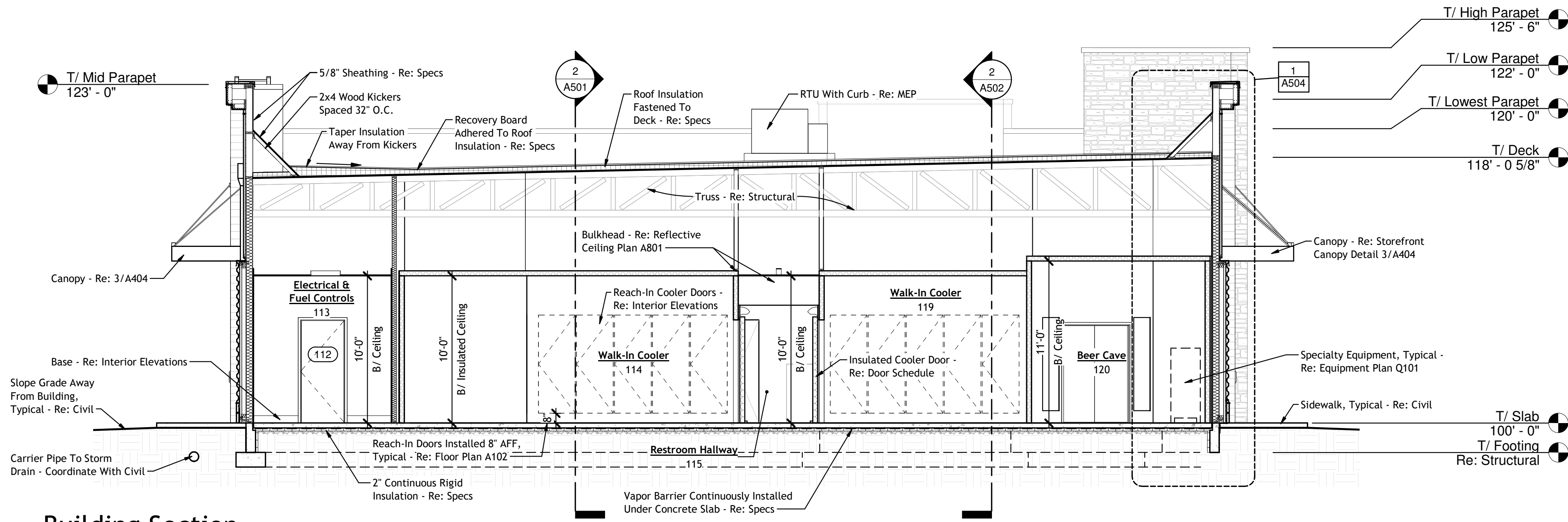
CHECKED	CHECK DATE

SHEET TITLE

Window Details

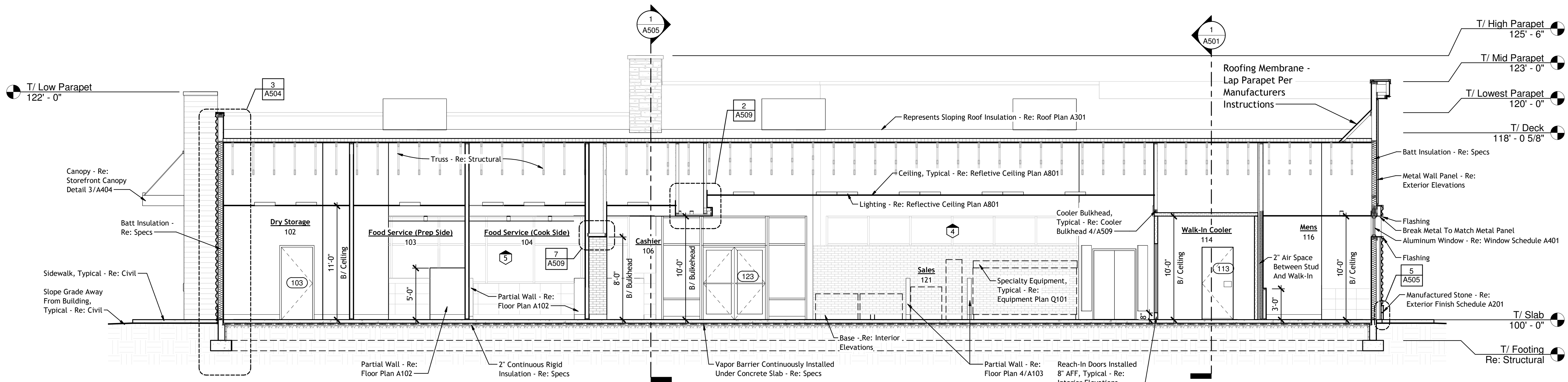
PROJECT NO. 24007  
DRAWING ISSUED DATE: 10/09/24  
SHEET  
**A404**





Building Section

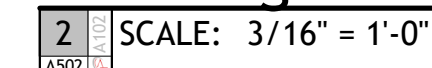
SCALE: 3/16" = 1'-0"



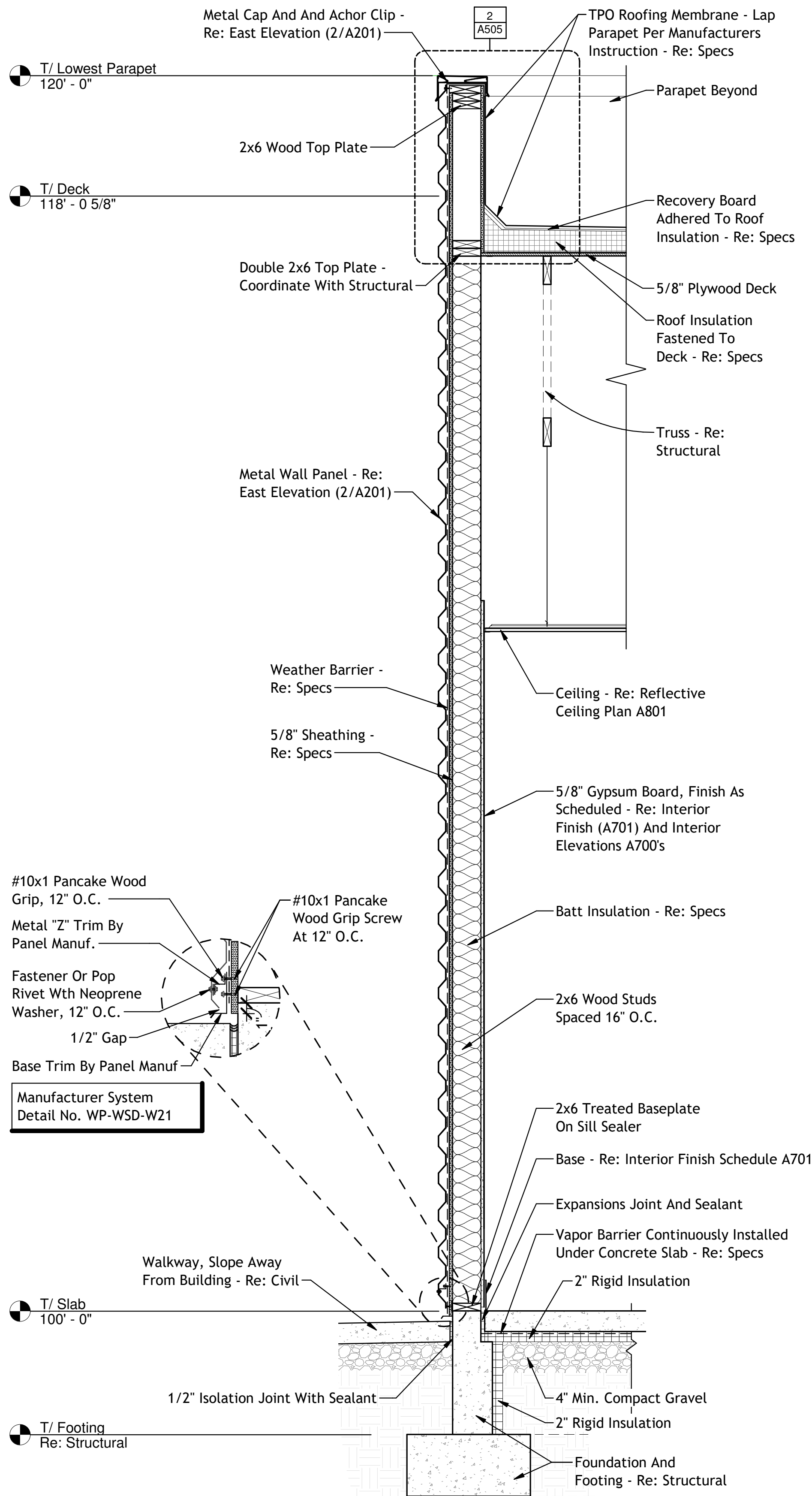
Building Section

SCALE: 3/16" = 1'-0"



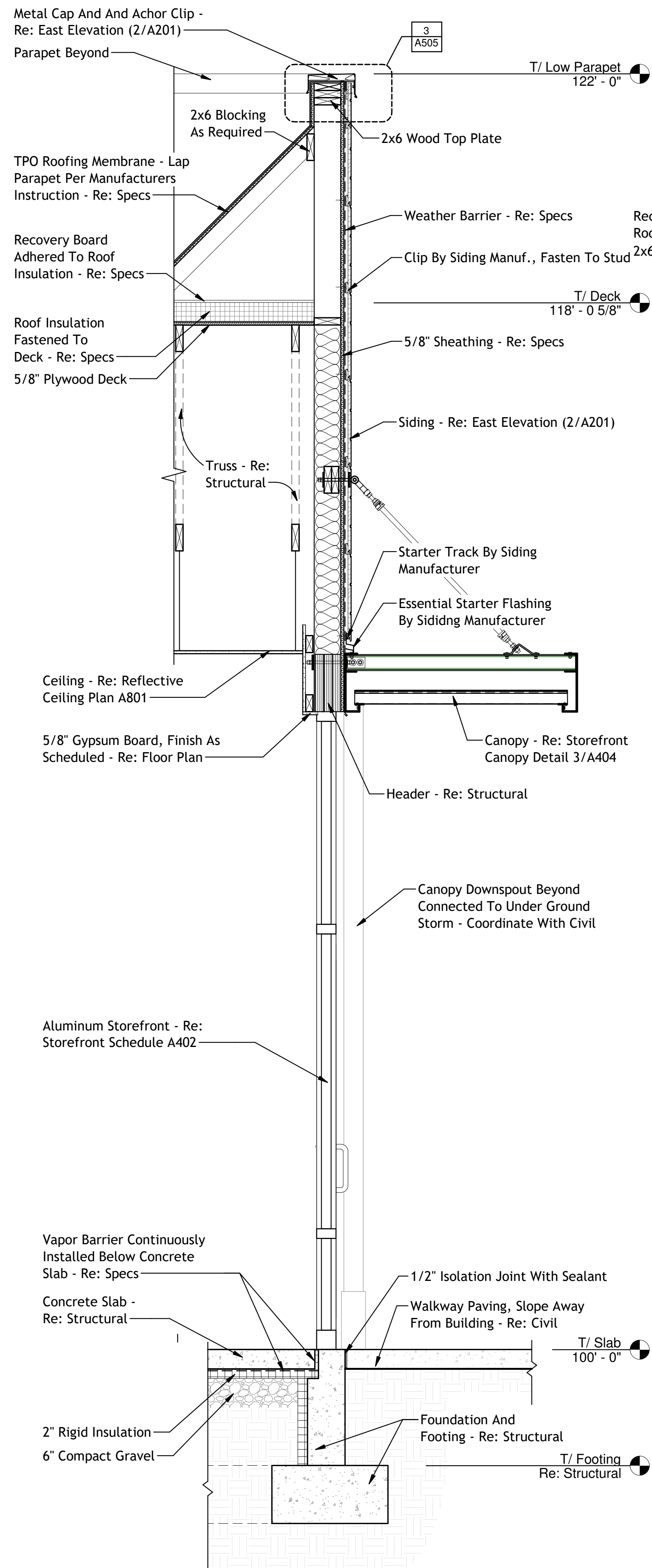






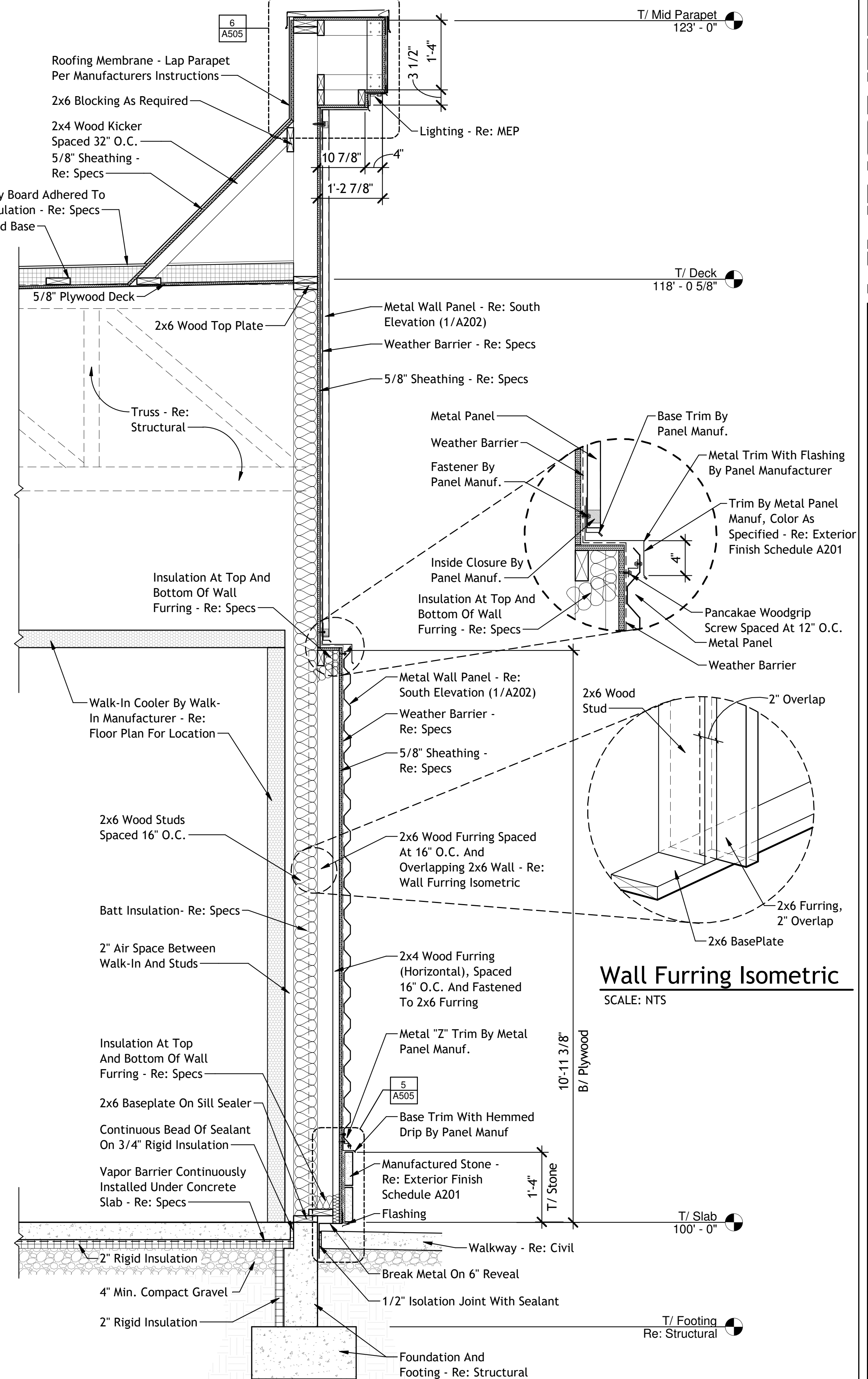
Wall Section 3

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



Wall Section 2

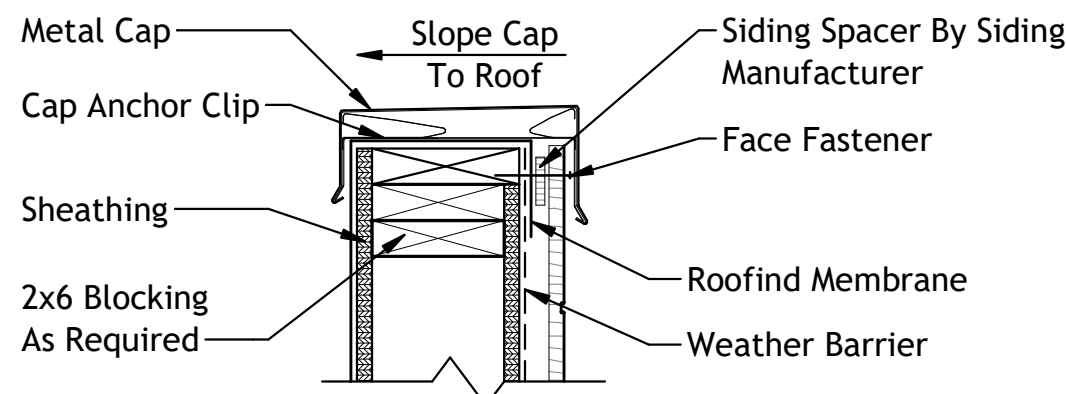
2 SCALE: 3/4" = 1'-0"



Wall Section 1

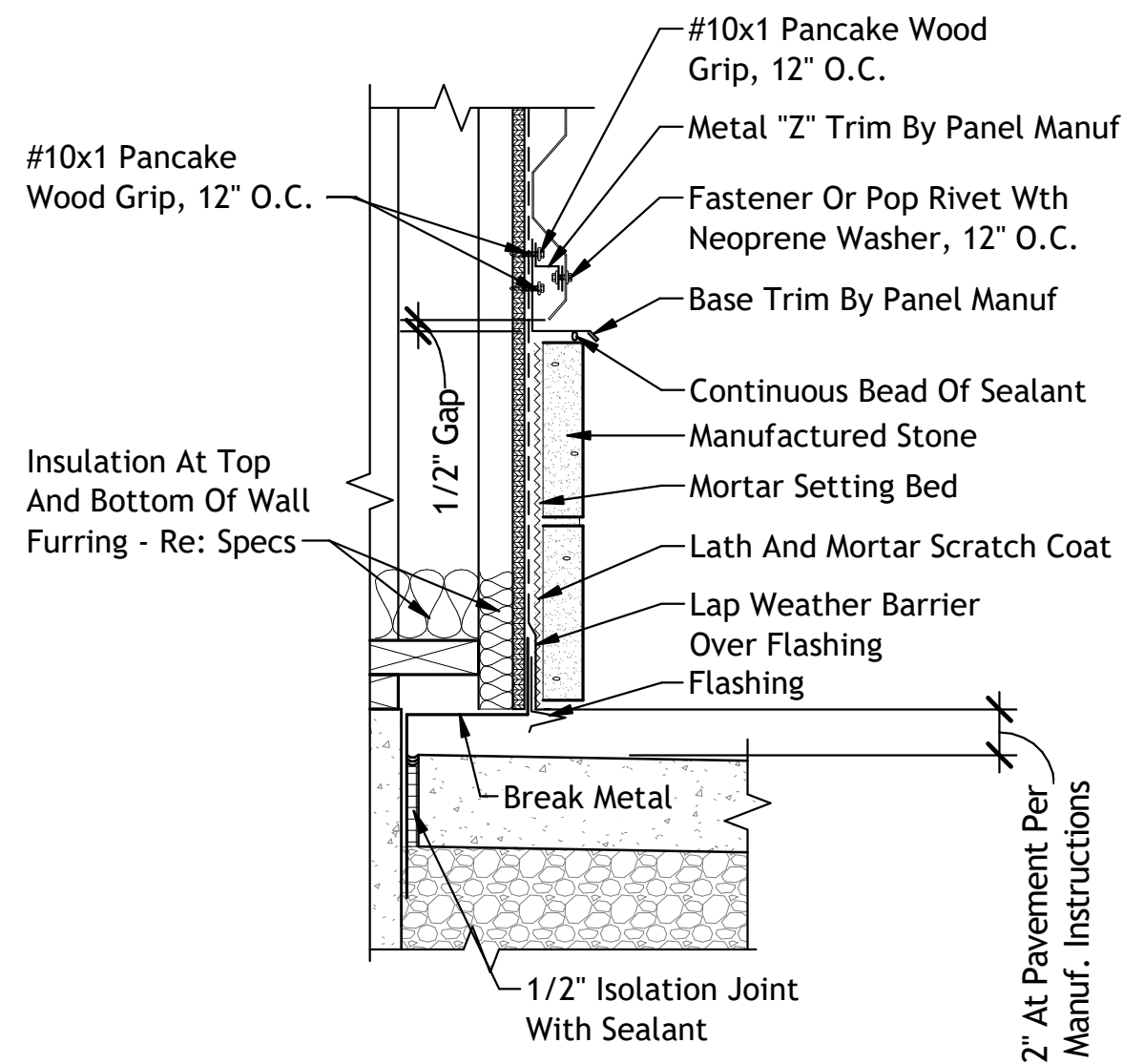
1 SCALE: 3/4" = 1'-0"





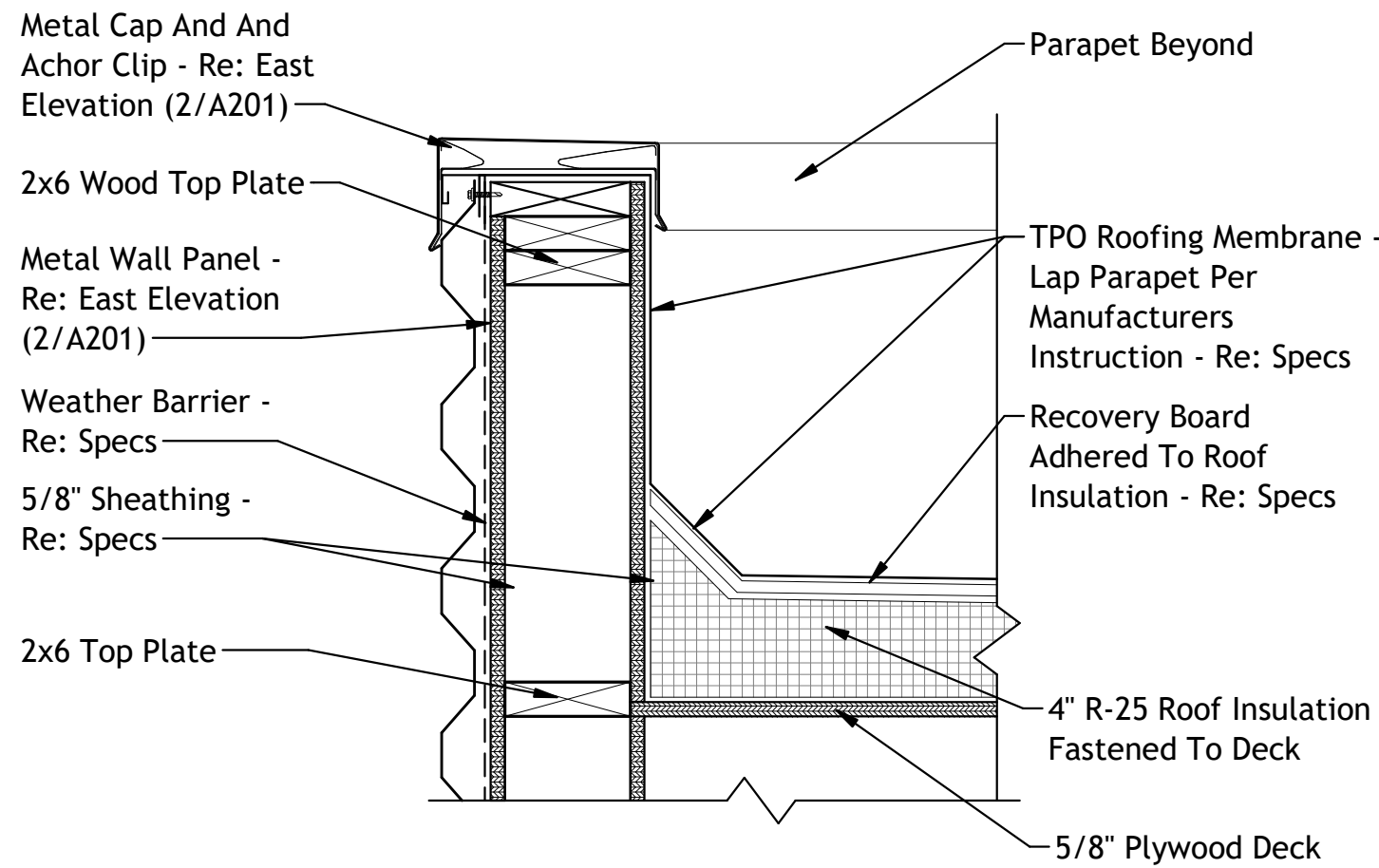
### Siding Cap Detail

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



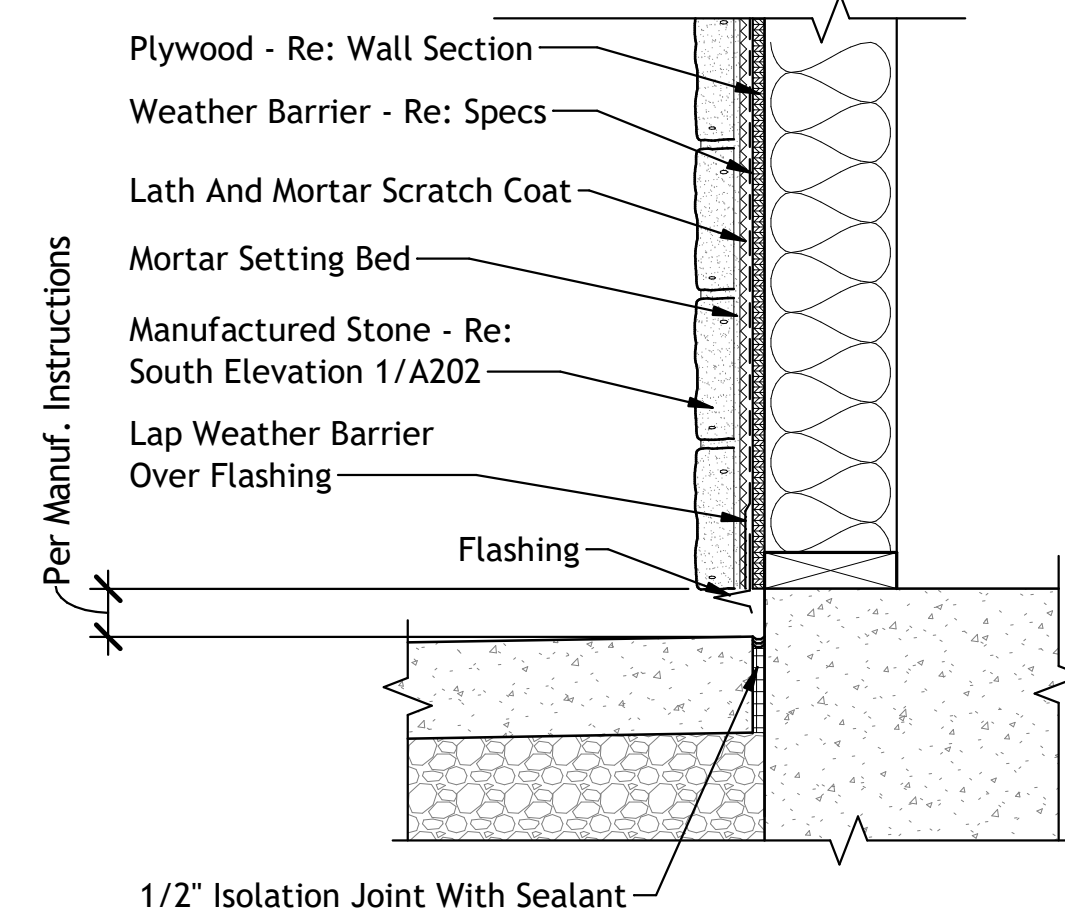
### Stone Flashing

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



### Parapet Detail

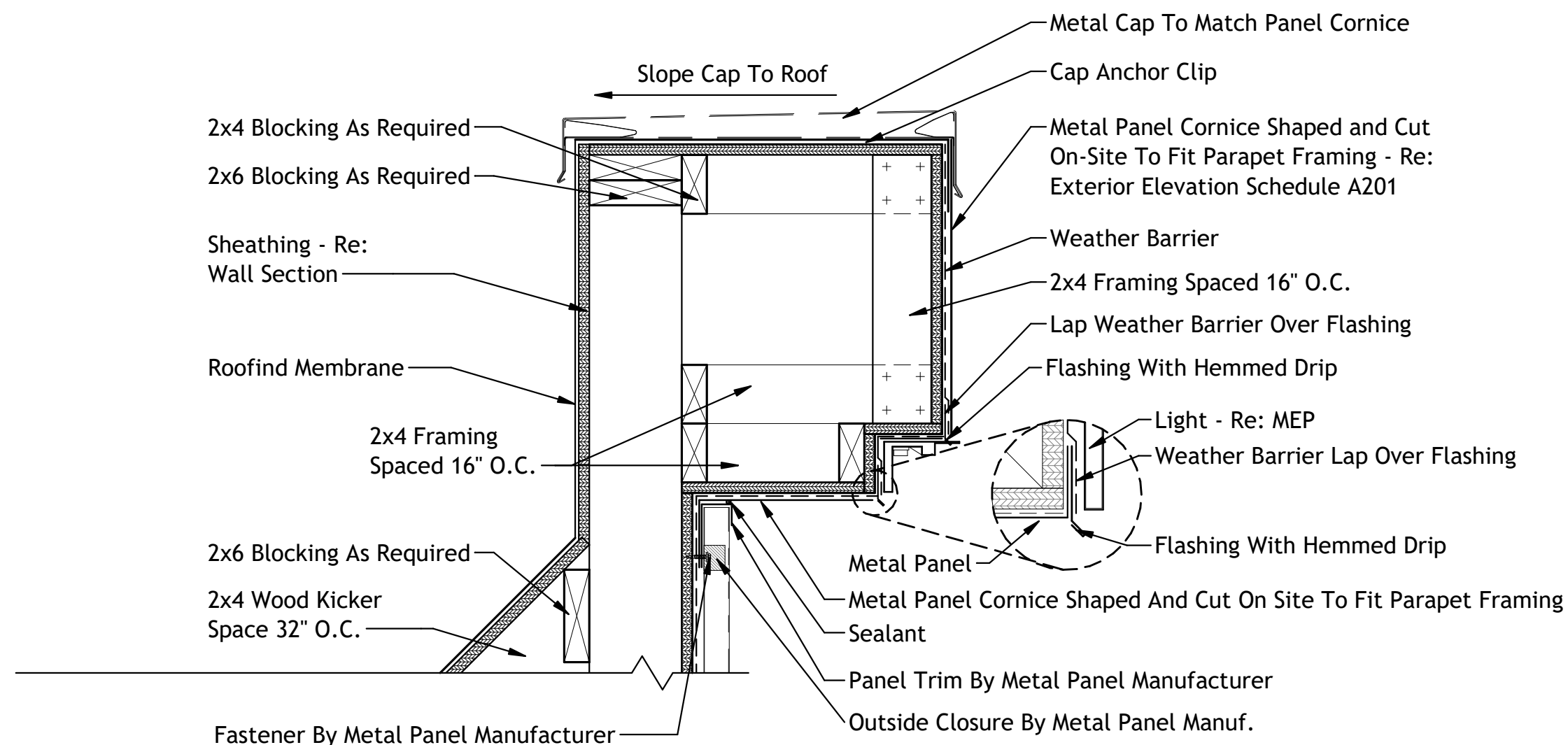
2 SCALE: 1 1/2" = 1'-0"



### Stone Flashing

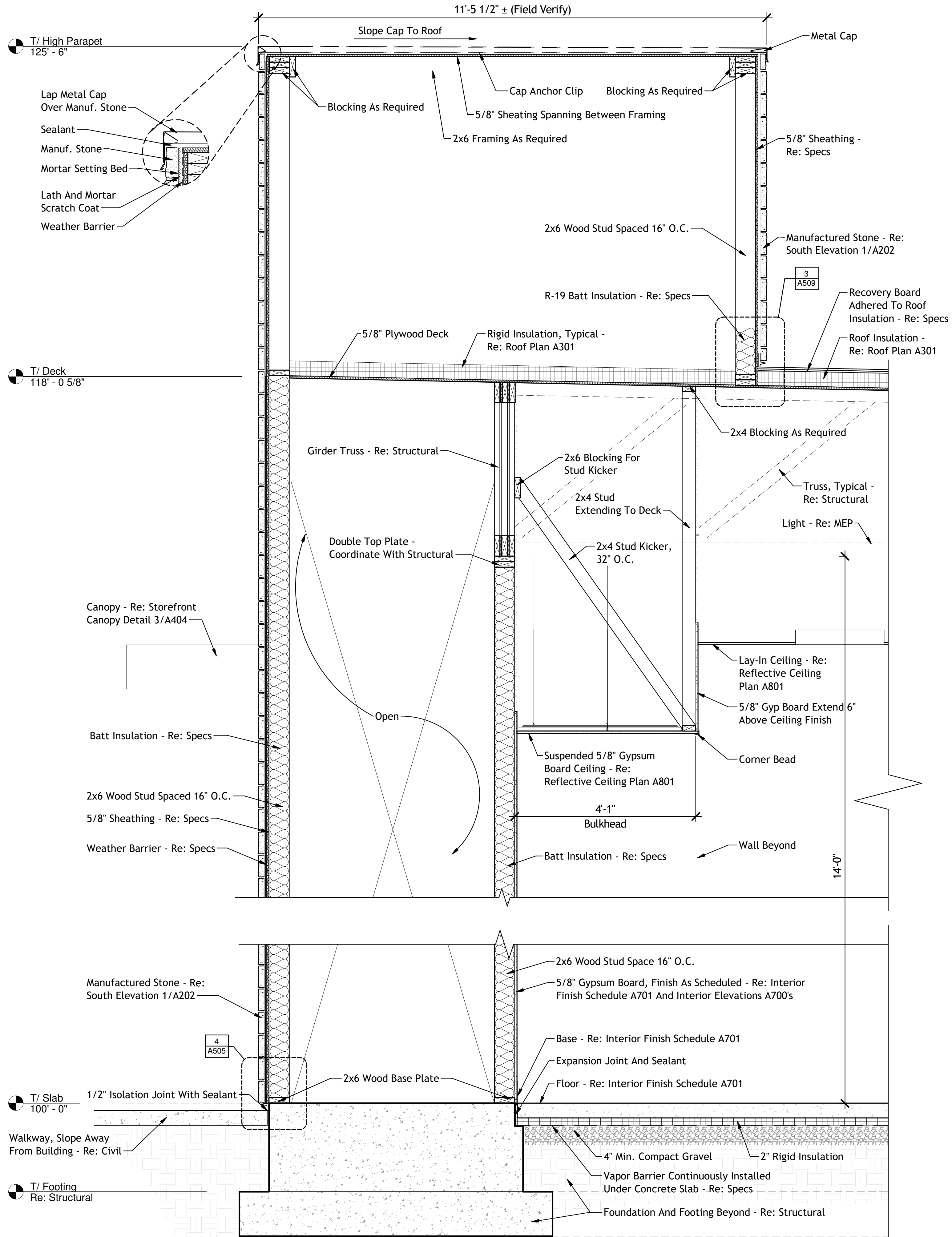
4 SCALE: 1 1/2" = 1'-0"

Manufacturer System Detail No. 5a Foundation Wall Base



### Parapet With Cornice

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



### Wall Section

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

PREMIER ARCHITECTURE  
DESIGN AND BUILD  
PADB Project No.: 24007

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REVISION HISTORY			
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Acee's Truck Stop  
Fulton, Kentucky

Non-Reduced Sheet Size: 24" x 36"	
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.	
DESIGNED	DRAWN
FIELD	FIELD BOOK
CHECKED	CHECK DATE
SHEET TITLE	

Wall Section & Misc

PROJECT NO.  
24007  
DRAWING ISSUED DATE:  
10/09/24  
SHEET  
A505



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REVISION HISTORY			
NO.	DESCRIPTION	DATE	APPR.

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Construction Documents



Acee's Truck Stop  
Fulton, Kentucky

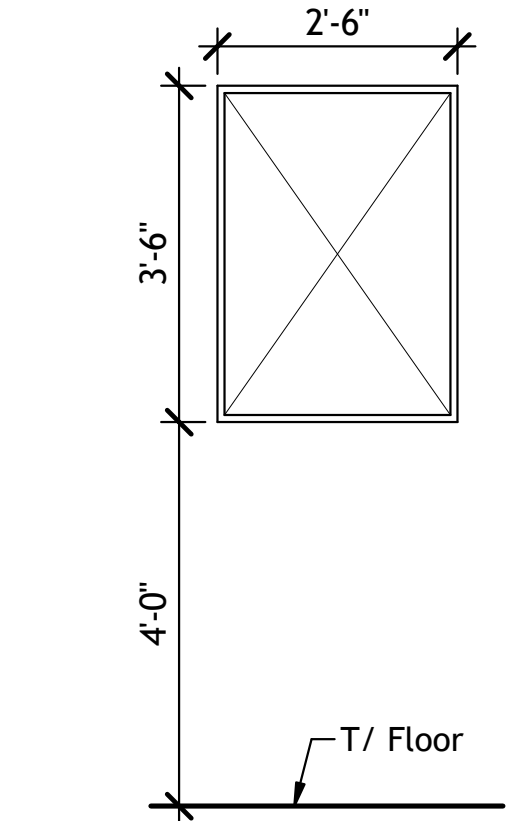
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Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.	
DESIGNED	DRAWN Author
FIELD	FIELD BOOK
CHECKED	CHECK DATE

SHEET TITLE	
Exterior Signage & Schedule	
PROJECT NO. 24007	
DRAWING ISSUED DATE: 10/09/24	
SHEET A506	

### 4046 - Exterior Graphics Schedule

ID	Name	QTY	Description	Installation
1EG	Large Acee'S Logo Sign	2	Led Facelit Channel Sign With Returns And Trimcap To Be Blue	Mounts Directly To Exterior Wall
2EG	Small Acee'S Logo Sign	1	Led Facelit Channel Sign With Returns And Trimcap To Be Blue	Mounts Directly To Exterior Wall
3EG	"Welcome" Letters	3	Led Facelit Channel Letters With Blue Returns	Mounts Directly To Exterior Wall
4EG	Pop Signage	8	Digitally Printed Graphic That Is Weather Proof	Mounted In Custom Black Snap Frame

Exterior Graphic General Notes	
1	Refer To Elevations For Plans & Dimensions. Determine All Graphics/Signage Applications By Using Field Dimensions Only.
2	Verify All Production Artwork With Paragon Solutions And/Or Qsr Vendors (If Applicable). Must Be Approved Prior To Production.
3	Graphics/Signage Provider Responsible For Permitting And Code Compliance.
4	Graphics/Signage Provider Responsible For All Mounting Hardware.
5	Provide Installation Costs Unless Otherwise Noted.
6	Signage By Owner, Owner to install all signage



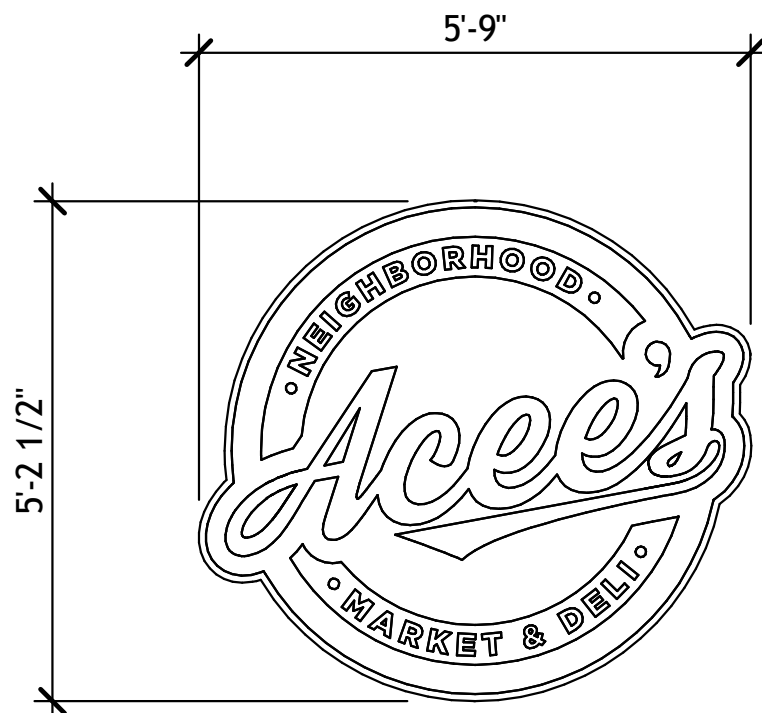
Pop Signage

4EG	A506
-----	------

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

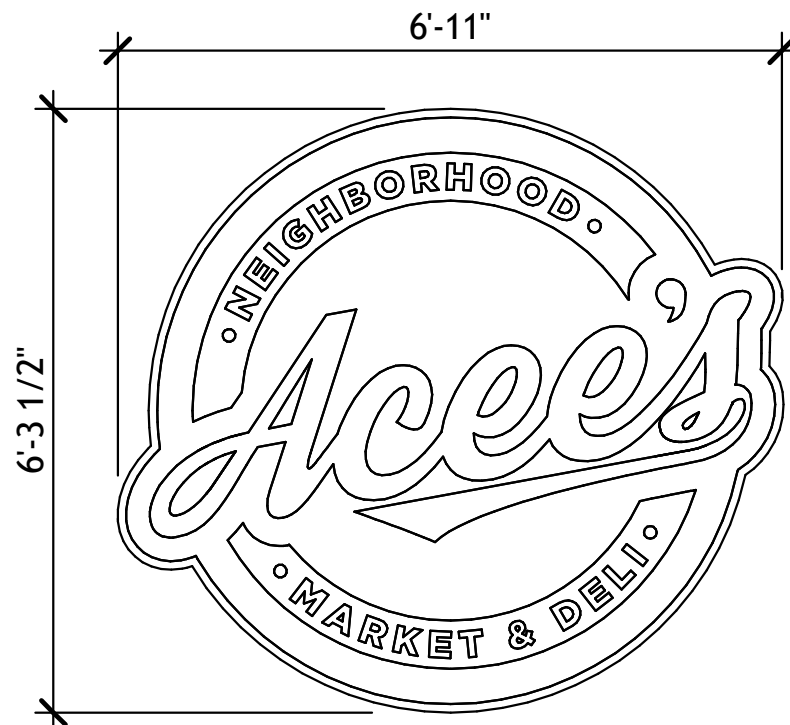
"Welcome" Letters

3EG	A506
-----	------

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

Small Acee's Logo Sign

2EG	A506
-----	------

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

Large Acee's Logo Sign

1EG	A506
-----	------

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

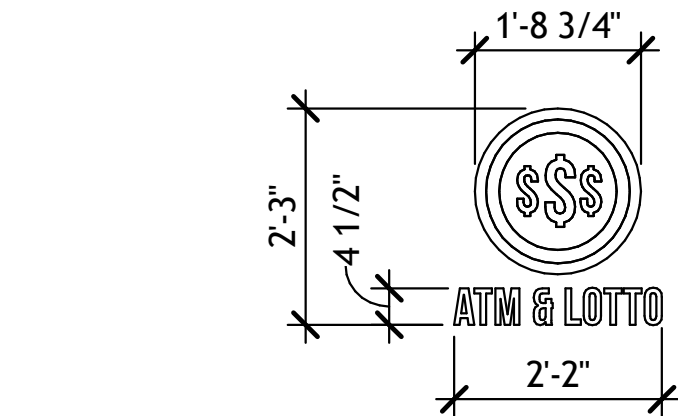


4046 - Interior Graphics Schedule

ID	Name	QTY	Description	Installation
1G	Framed Promo Images	3 Sets	1/2" Thick Clear Acrylic With Non-Glare Front. Sandwich Printed Image. 1/2" Brushed Aluminum Standoffs.	Mounted Directly To Wall
2G	"Thank You For Visiting" Window Graphic	3	Double Sided Digitally Printed On Commercial Grade Matte Vinyl.	Adhered To Interior Glass
3G	"Acee'S" Logo	1	Round Backer: 1/4" White Pvc With Digitally Printed Graphic Face And Finished Edges....	Mounted Directly To Wall
4G	"Atm & Lotto" Icon Sign & Letters	1	1/4" Dimensional Text And Round Sign. Round Sign To Have Digitally Printed Face With 1/4" White Pvc Letters.	Mounted Directly To Wall
5G	Red Merchandiser Topper	1	1/4" Painted Pvc (Paint Edges To Match)	Mounted On Top Of Merchandiser Shelving
6G	"Cheers For Beer" Sign	1	Cheers/For Text: To Be 1/2" Expanded Pvc With Finished Edges Mounted To Wall...	Mounted Directly To Wall
7G	"Come On Inside" Door Decal	2	Commercial Grade Frosted Vinyl Text	Adhered To Front Of Doors
8G	Interior Beer Cave Graphics	1 Set	Exterior Grade Vinyl With Heavy Duty Overlamineate. To Be Formulated For Cold Temperatures.	Adhered To Cave Walls 48 Hrs Before Refrigeration Unit Has Been Turned On.
9G	Beer Bottles & Bubbles Graphic	1	White Bottles & Bubbles: 1/4" White Pvc...	Mounted Directly To Wall
10G	Restroom Sign	1	1/4" Dimensional Pvc Icons Mounted On 1/4" Pvc Round Sign With A Digitally Printed Face And Finished Edges.	Mounted Directly To Wall
11G	Wood Cooler Slats	2 Walls	2" X 1" Pine Slats (Or Similar Or Faux) To Span Across Cooler Walls. Stain: Minwax Dark Walnut Mw2716. Accent Slats To Be (P3) & (P4). Reference Interior Schedule For Details.	Mounted Directly To Wall
12G	"Quench. Refresh. Energize." Letters	1	Painted, Printed Or Similar Quality Onto Wood Planks.	Applied To Wood Planks.
13G	"Ace Berg" Frozen Drinks Sign	1	Ace Text: 2 Layers. 1/4" Dimensional White Layer On Top Of 1/4" Red Background...	Mounted Directly To Wall
14G	"Ace Tea" Sign	1	Ace Text: 2 Layers. 1/4" Dimensional White Layer On Top Of 1/4" Red Background...	Mounted Directly To Wall
15G	"Cold Refreshment" Sign	1	2"-3" Open Can Sign With Led Bulbs. Close Off Front With Clear Acrylic To Protect Bulbs. Refreshment Text To Be 1" Dimensional Text	Mounted Directly To Wall
16G	"Showers" Letters	1	1/4" Painted Pvc Letters (Paint Edges To Match)	Mounted Directly To Wall
17G	"Welcome Neighbors" Sign	1	1/4" Painted Blue Pvc Text Mounted To Suspended Cloud.	Mounted To Cashier Soffit
18G	"Acee'S" Logo & Self Checkout" Sign	1	Red Backer: 1/2" Painted Pvc...	Mounted To Top Of Shelf Checkout Wall
19G	Food Digital Menu Graphics	1	Graphics To Be Provided By Digital Content Manager	
20G	"Made Fresh" Decal	1	Commercial Grade Vinyl Text	Adhered To Sneeze Guard
21G	"Order Here" Arrow Sign	2	Play Here: 2 Layers. 1/4" Dimensional White Layer On Top Of 1/4" Blue Background	Mounted To Food Service Soffit
22G	"Daily" Decal	1	Commercial Grade Vinyl Text	Adhered To Sneeze Guard
23G	"Acee'S To-Go!" Sign	1	Acee'S Text: 2 Layers. 1/4" Dimensional White Layer On Top Of 1/4" Red Background...	Mounted Directly To Wall
24G	Channel Strips For Open Air Merchandiser	1 Set	Printed Card Stock To Be Applied To Existing Shelf Strips	Mounted Into Existing Polystyrene Shelf Strips
25G	Open Air Merchandiser Decal	1 Set	Commercial Grade Vinyl	Adhered To Middle Portion Of Island Case
26G	"A+ Coffee" Sign	1	1" Thick Galvanized Tube With Connection Components....	Mounted On Millwork Partition
27G	"Men" & "Women" Icon Signs	1 Set	1/4" Dimenisonal Text And Round Sign. Round Sign Is To Have A Printed Face.	Mounted Directly To Wall
28G	"Laundry" Sign	1	1/4" Dimensional Text And Round Sign. Round Sign Is To Have A Printed Face.	Mounted Directly To Wall
29G	"Shower 1 & 2" Signs	1 Ea.	1/4" Dimenisonal Text And Round Sign. Round Sign Is To Have A Printed Face.	Mounted Directly To Wall
30G	Neighborhood Market & Deli Wall Decal	1	Digitally Printed Vinyl Wall Decal	Adhered Directly To Wall
31G	Fountain Machine Translite Graphic	2	To Be Printed And Provided By Fountain Manufacturer	
32G	"Acee'S Grab-N-Go" Sign	1	White Backer: 1/2" Pvc...	Mounted On Top Of Merchandiser

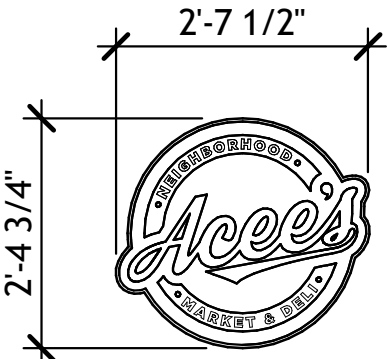
Interior Graphic General Notes

- 1
- Determine All Graphic Applications By Using Field Dimensions Only.
- 2
- No Graphic Substitutions Are Allowed Without Paragon Solutions Or Owners Consent.
- 3
- Review All Final Production Drawings With Paragon Solutions Prior To Production.
- 4
- Owner to provide and install all graphic and signs. Contractor to provide and all electrical, bracing and framing necessary for signage, and coordinate the same.
- 5
- Walls That Will Be Covered With Vinyl Graphic Wallcovering(S) To Be Primed With Pro-935 R-35® Adhesion Promoting Wallcovering Primer By Roman Decorating Products.



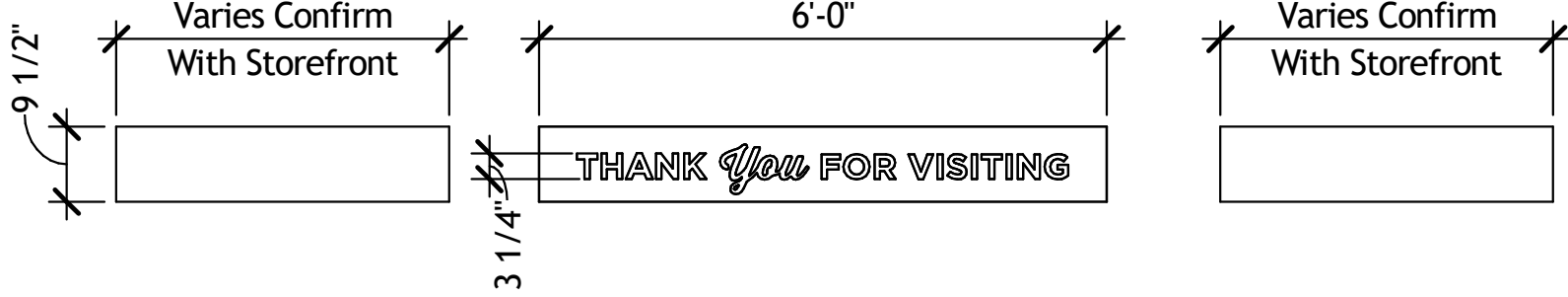
"ATM & LOTTO" Icon Sign & Letters

4G SCALE: 1/2" = 1'-0"



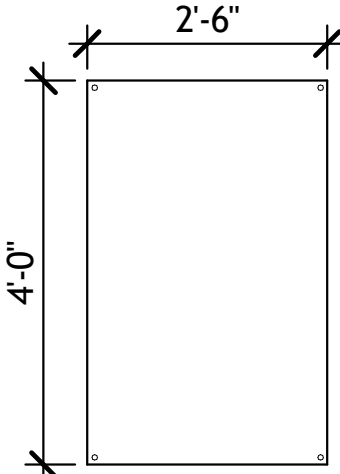
"ACEE'S" Logo

3G SCALE: 1/2" = 1'-0"



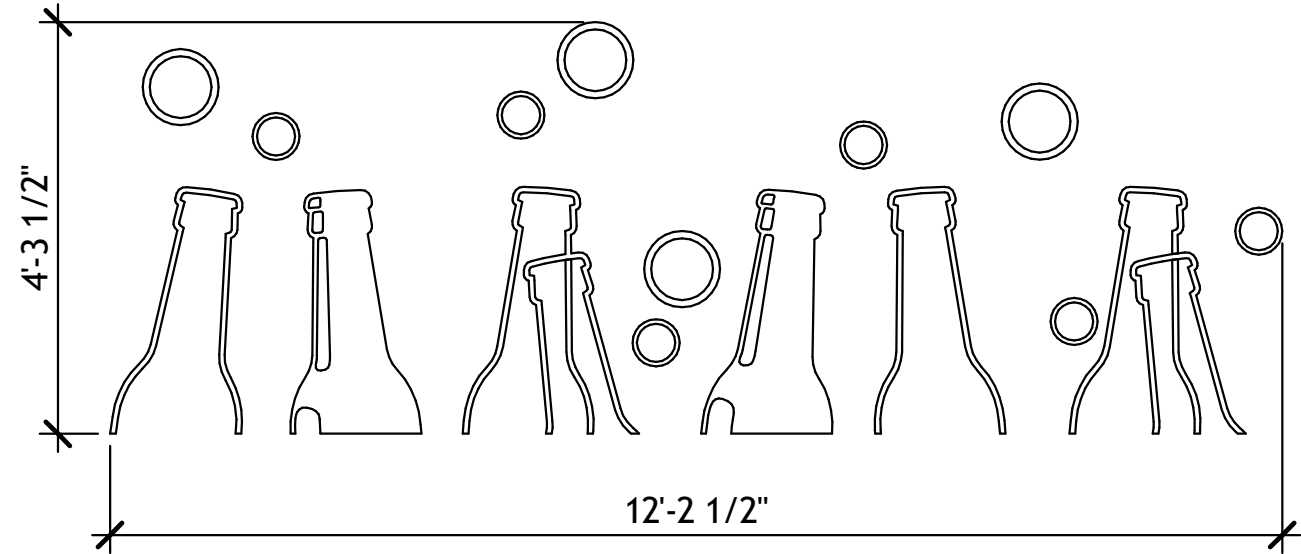
"THANK YOU FOR VISITING" Window Graphic

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



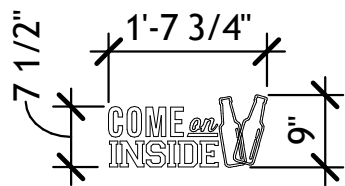
Framed Promo Images

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



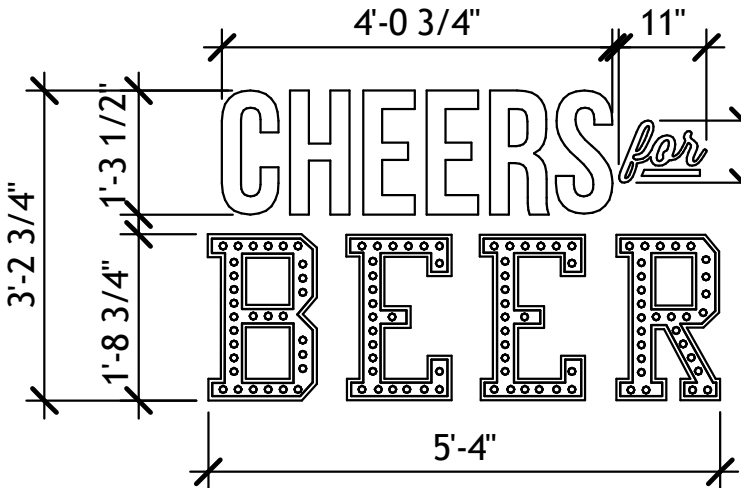
Beer Bottles & Bubbles Graphic

9G SCALE: 1/2" = 1'-0"



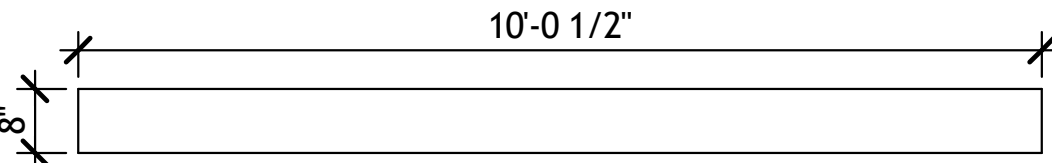
"COME ON INSIDE" Door Decal

7G SCALE: 1/2" = 1'-0"



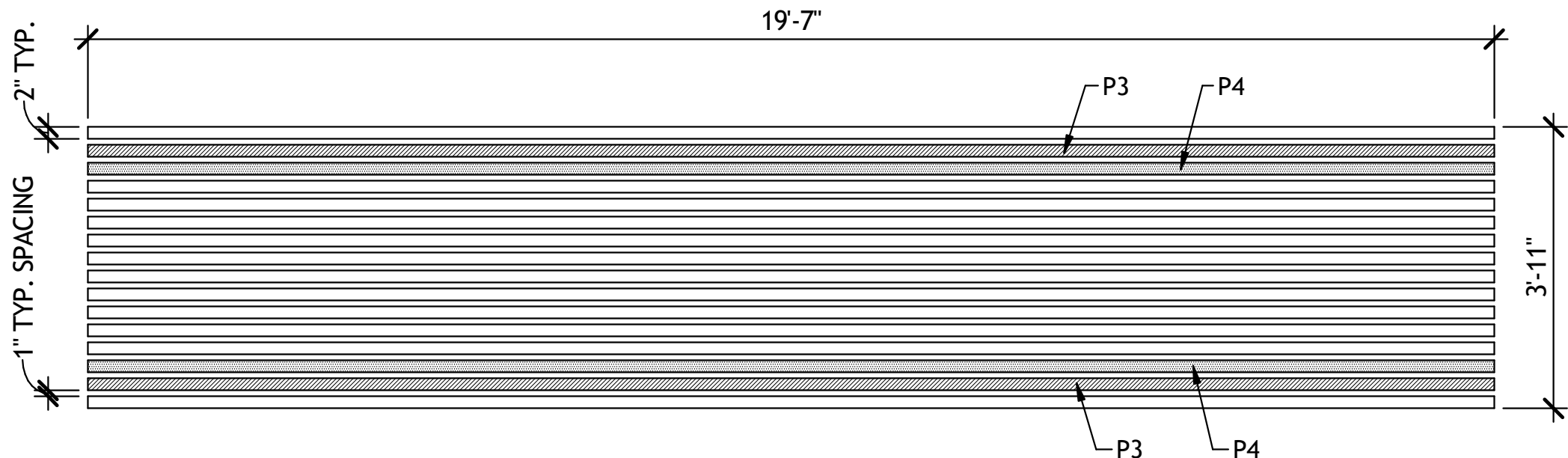
"CHEERS FOR BEER" Sign

6G SCALE: 1/2" = 1'-0"



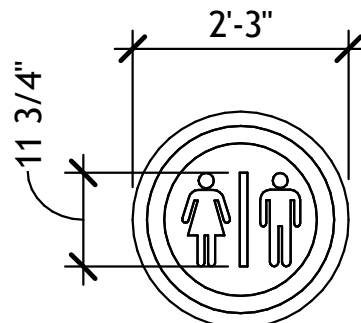
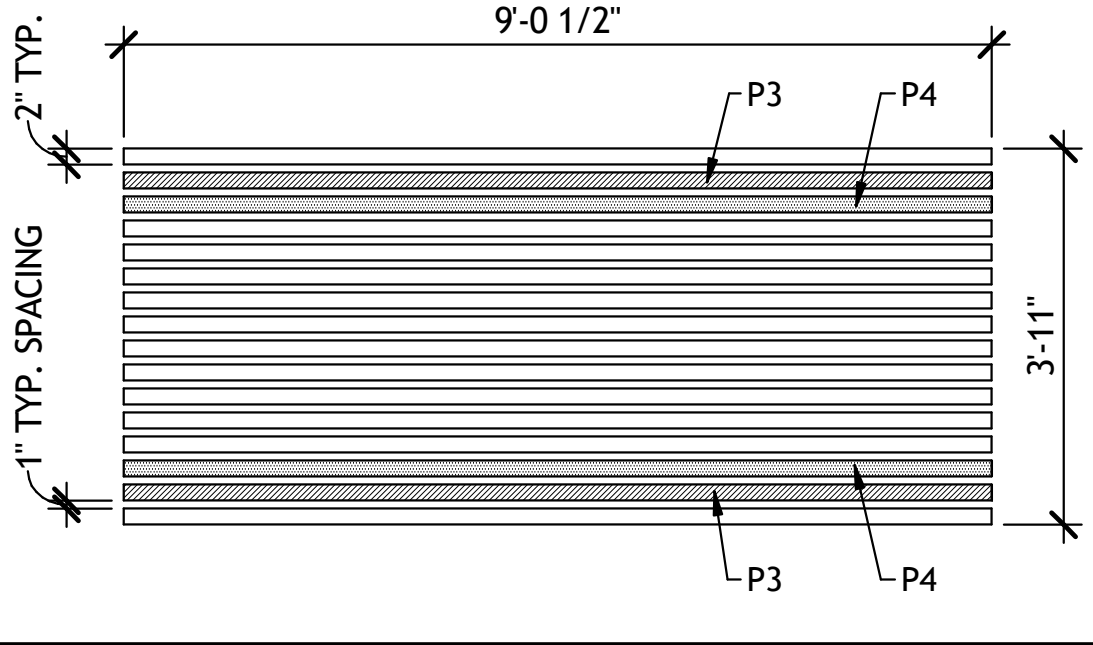
Red Merchandiser Topper

5G SCALE: 1/2" = 1'-0"



Wood Cooler Slats

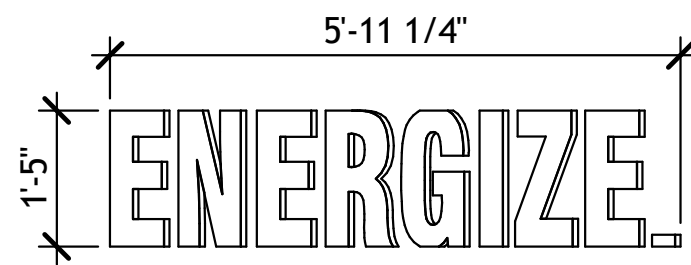
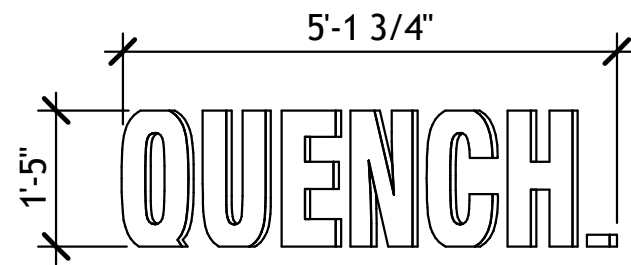
11G SCALE: 1/2" = 1'-0"



Restroom Sign

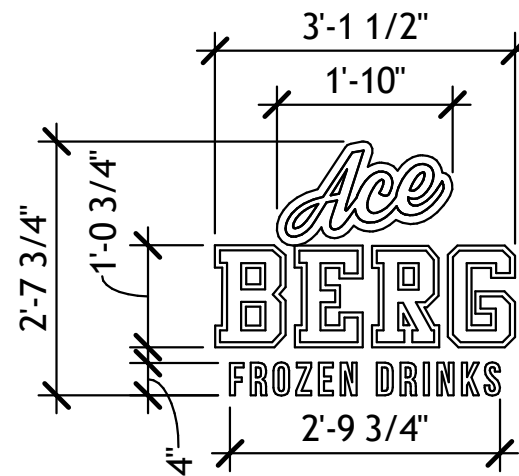
10G SCALE: 1/2" = 1'-0"





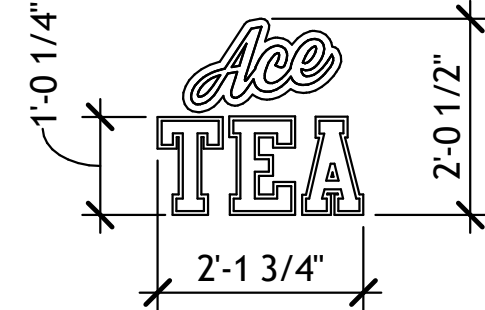
"QUENCH. REFRESH. ENERGIZE." Letters

12G SCALE: 1/2" = 1'-0"



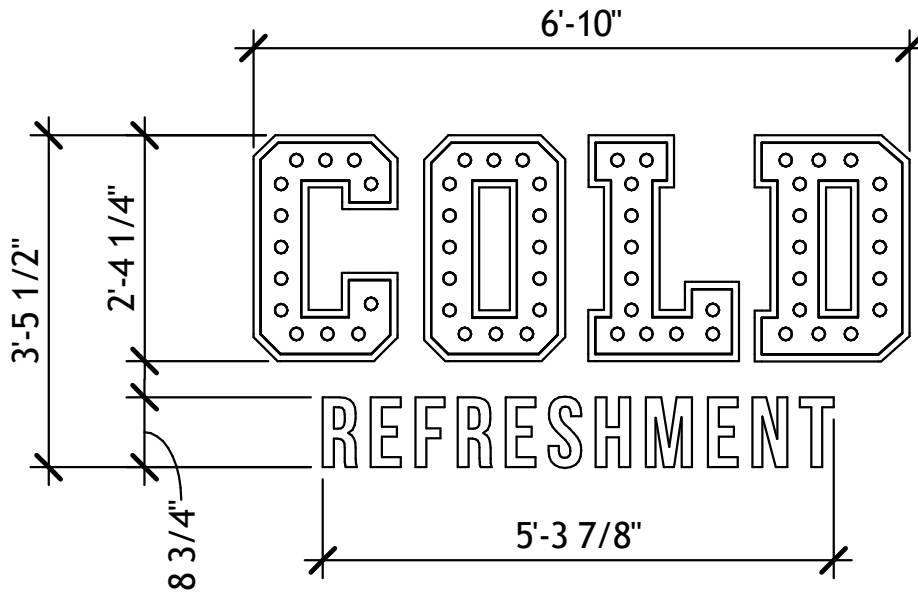
"ACE BERG" FROZEN DRINKS Sign

13G SCALE: 1/2" = 1'-0"



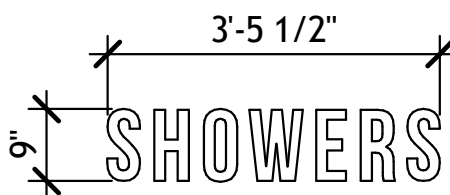
"ACE TEA" Sign

14G SCALE: 1/2" = 1'-0"



"COLD REFRESHMENT" Sign

15G SCALE: 1/2" = 1'-0"



"SHOWERS" Letters

16G SCALE: 1/2" = 1'-0"



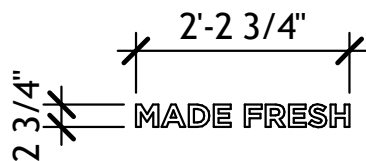
"WELCOME NEIGHBORS" Sign

17G SCALE: 1/2" = 1'-0"



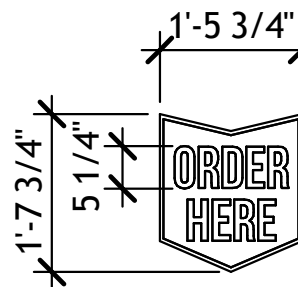
"ACEE'S" LOGO & SELF CHECKOUT" Sign

18G SCALE: 1/2" = 1'-0"



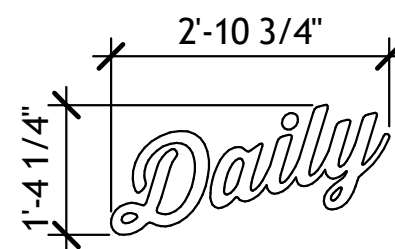
"MADE FRESH" Decal

20G SCALE: 1/2" = 1'-0"



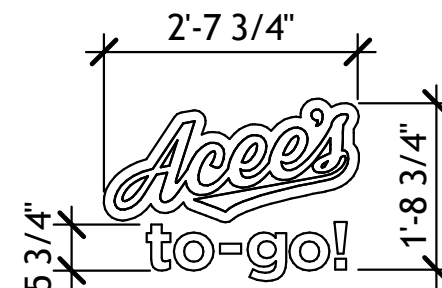
"ORDER HERE" Arrow Sign

21G SCALE: 1/2" = 1'-0"



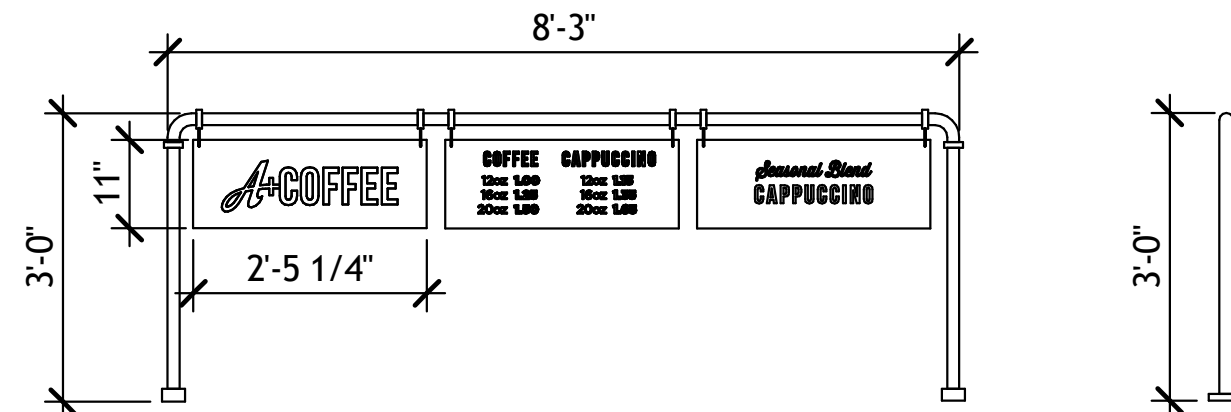
"DAILY" Decal

22G SCALE: 1/2" = 1'-0"



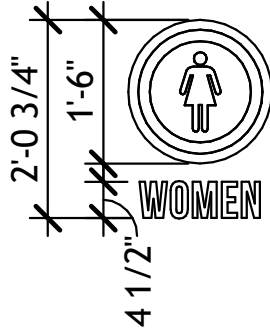
"ACEE'S TO-GO!" Sign

23G SCALE: 1/2" = 1'-0"



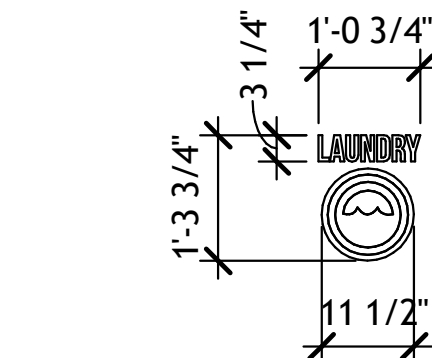
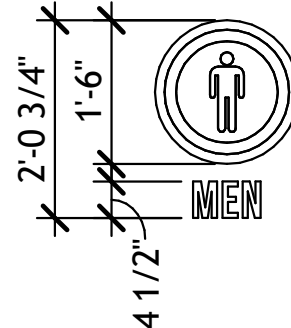
"A+ COFFEE" Sign

26G SCALE: 1/2" = 1'-0"



"MEN" & "WOMEN" Icon Sign

27G SCALE: 1/2" = 1'-0"



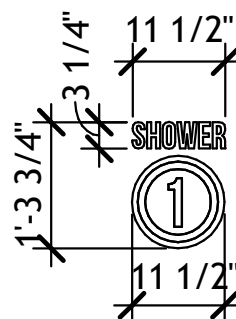
"LAUNDRY" Sign

28G SCALE: 1/2" = 1'-0"



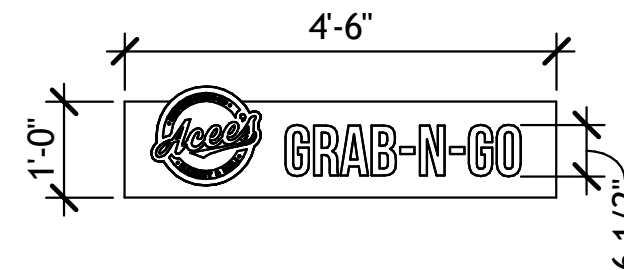
"SHOWER 1 & 2" Sign

29G SCALE: 1/2" = 1'-0"



NEIGHBORHOOD MARKET & DELI Wall Decal

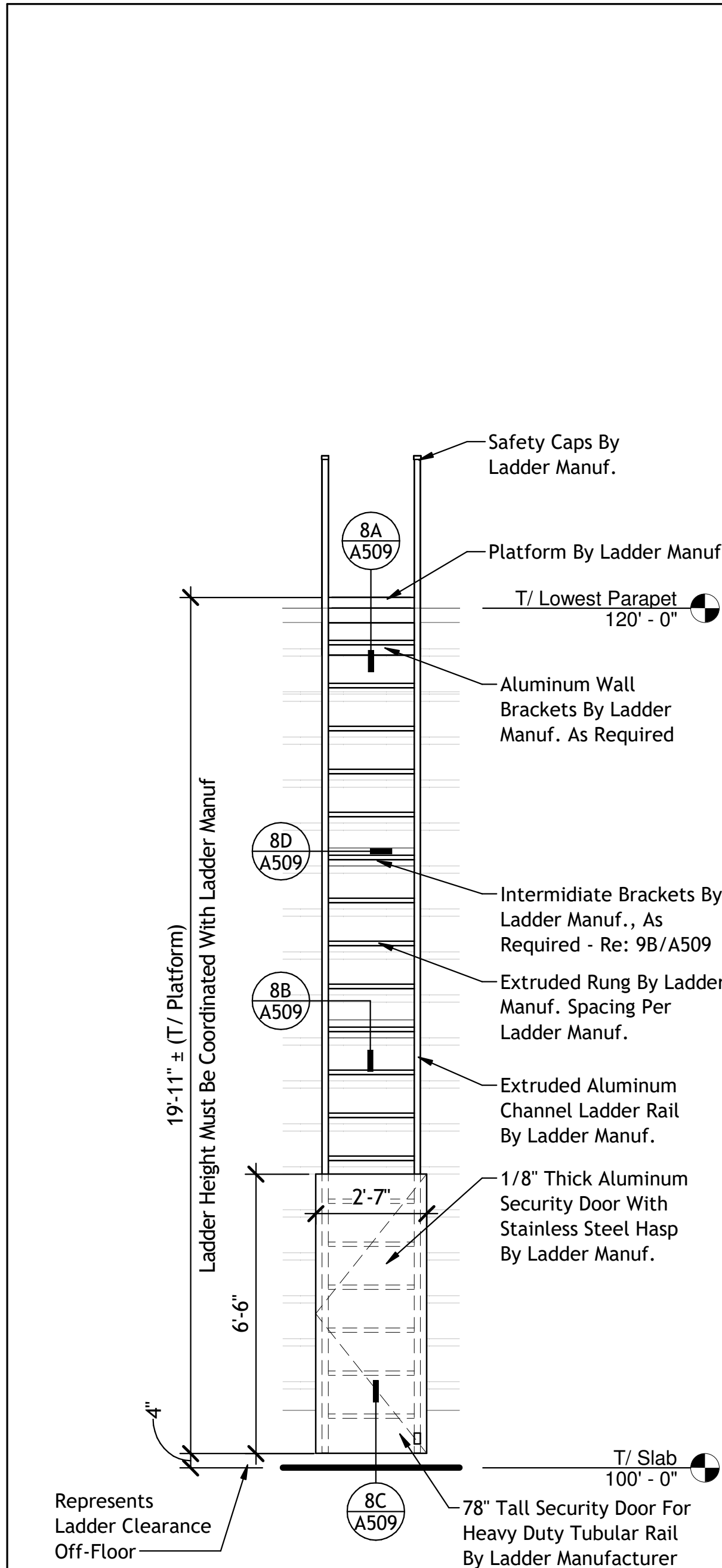
30G SCALE: 1/2" = 1'-0"



"ACEE'S GRAB-N-GO" Sign

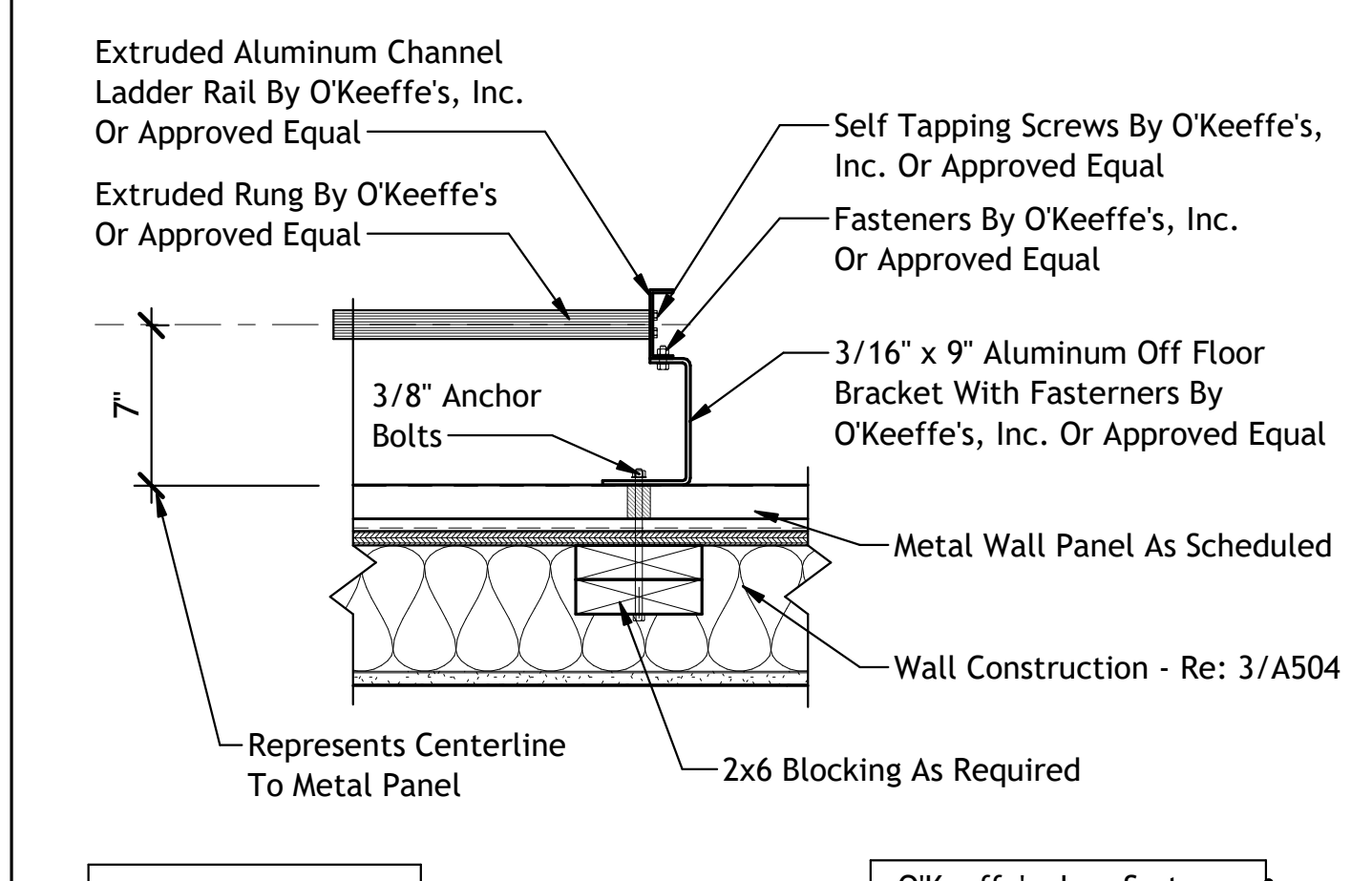
32G SCALE: 1/2" = 1'-0"





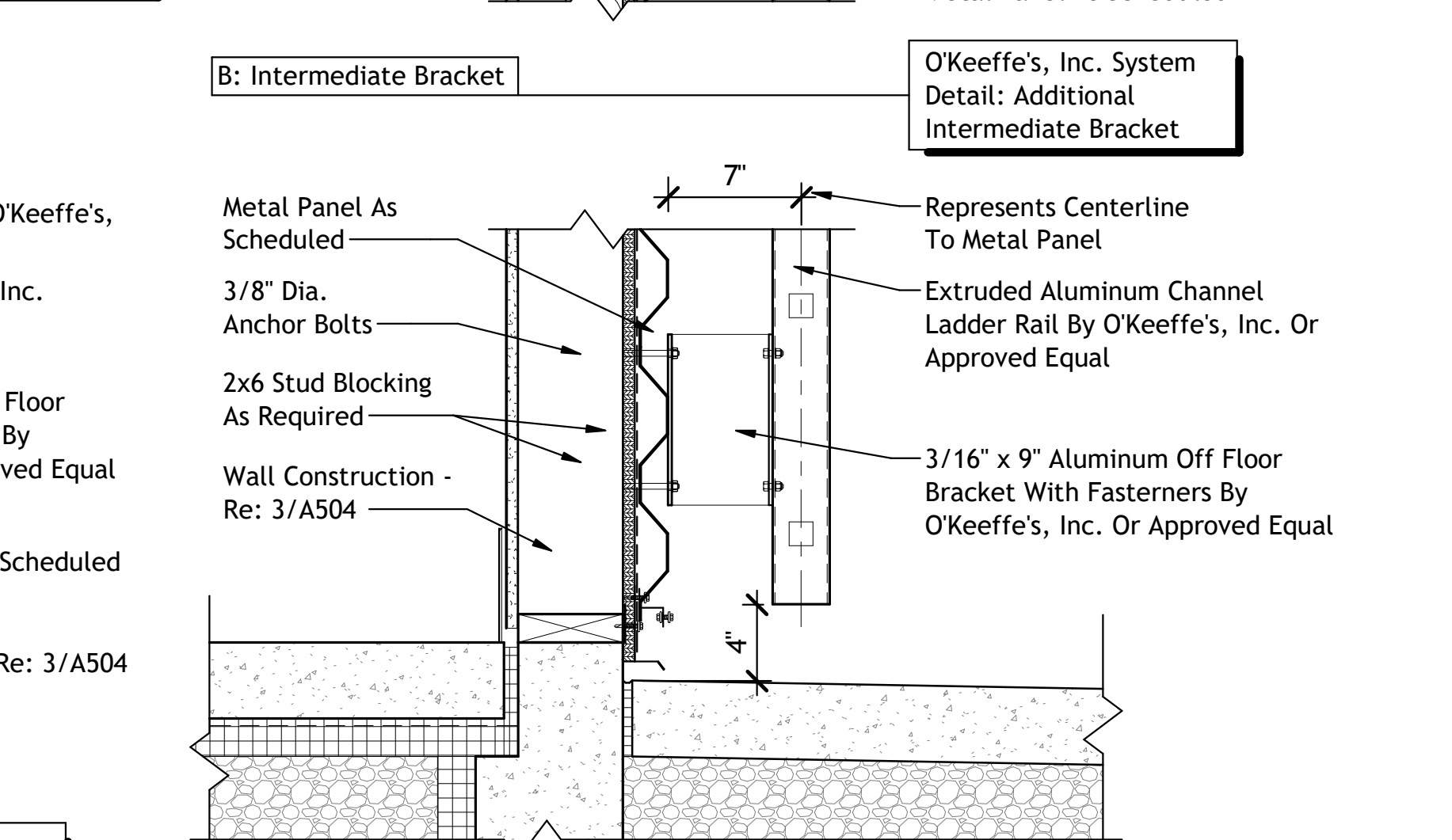
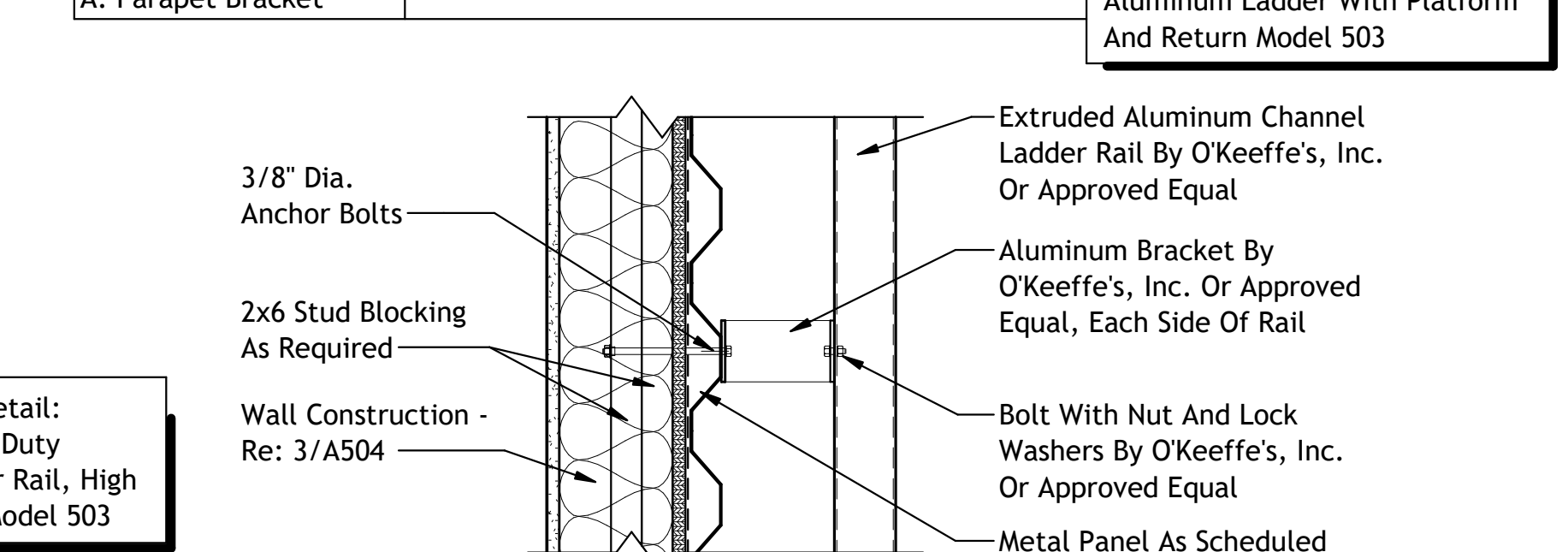
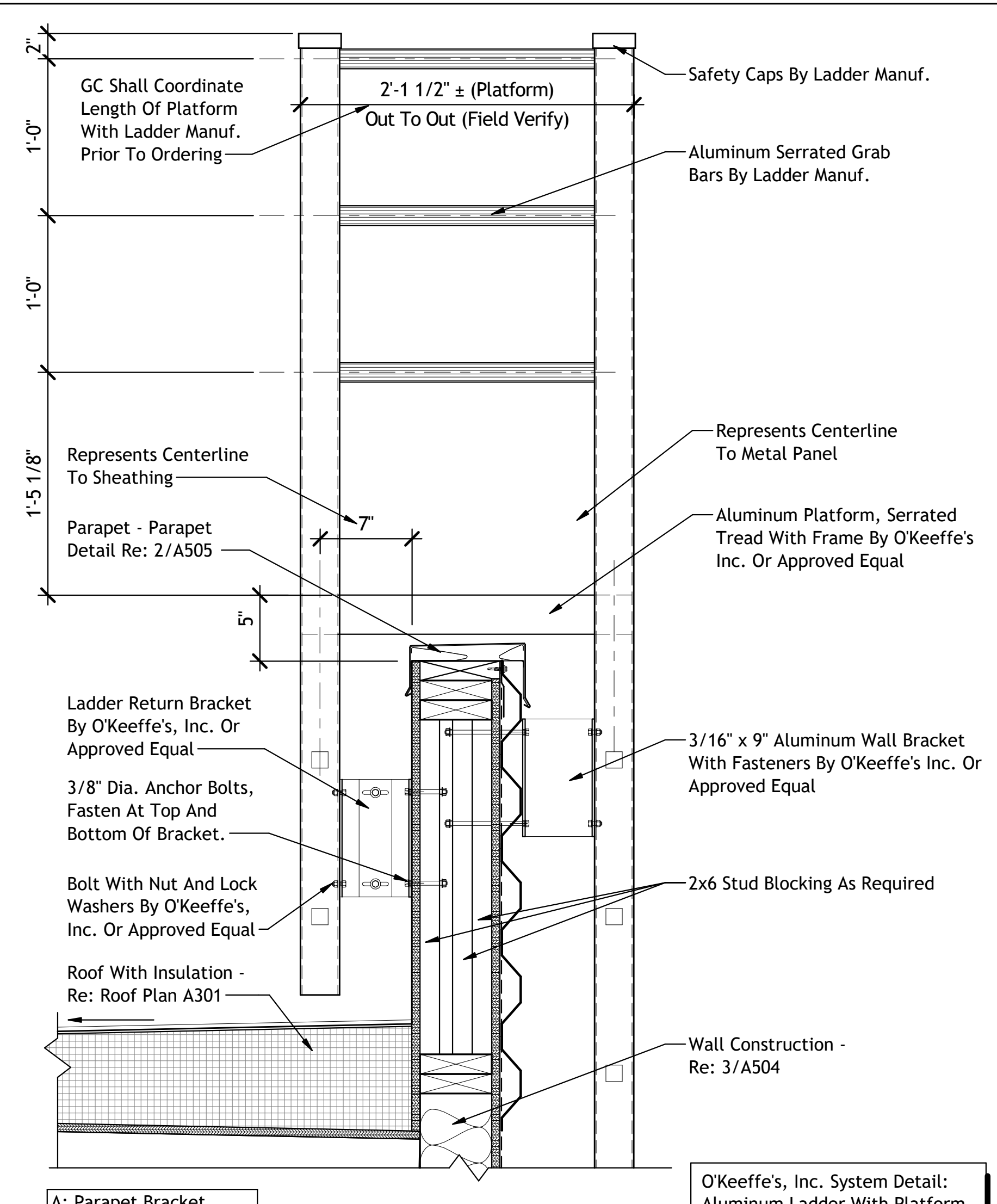
**Ladder Elevation**  
9 SCALE: 3/8" = 1'-0"  
A509

O'Keeffe's, Inc. System Detail: Security Door For Heavy Duty Tubular Rail And Tubular Rail, High Parapet Access Ladder Model 503

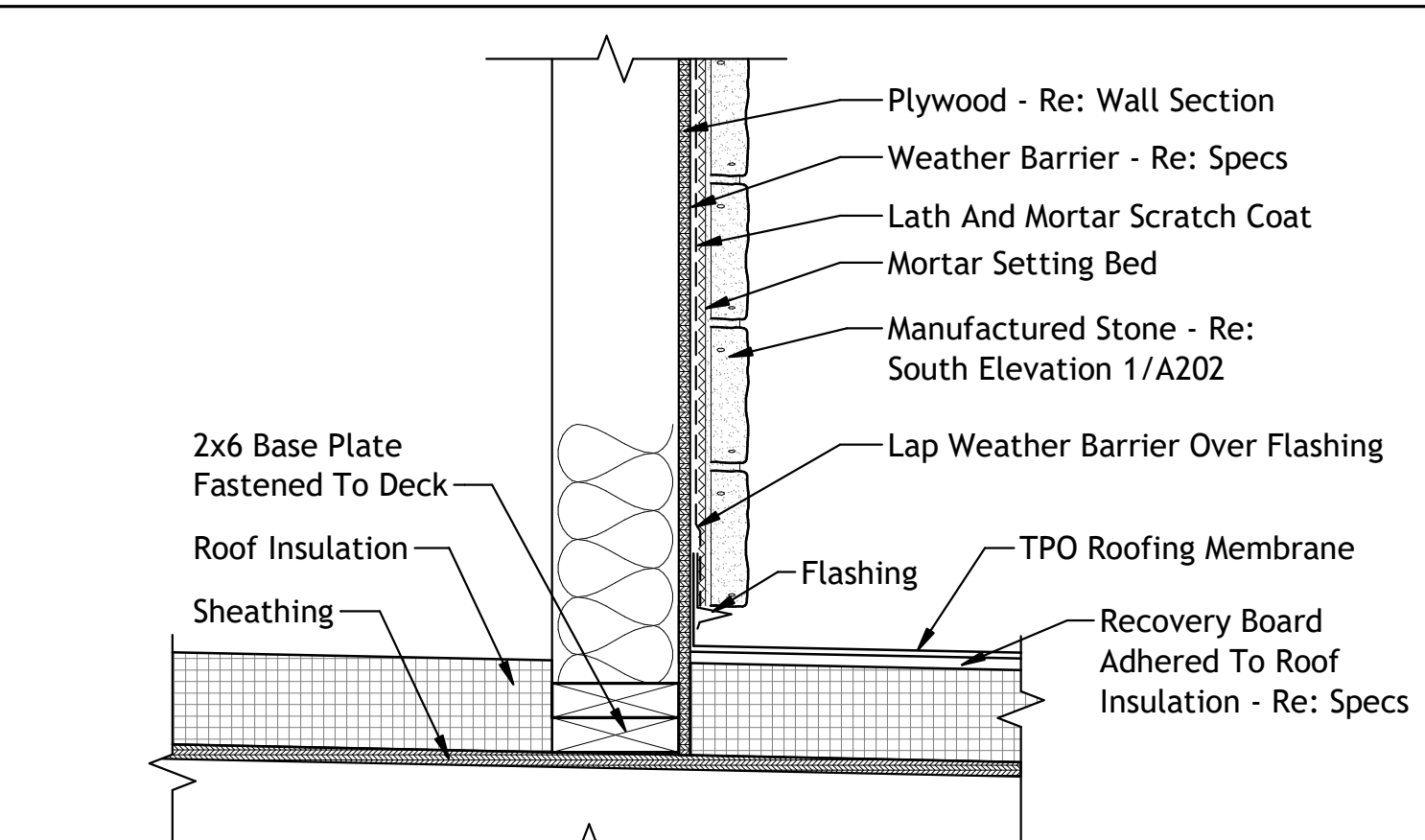


**D: Bracket Plan View**  
O'Keeffe's, Inc. System Detail: Off Floor/Top Bracket Top View

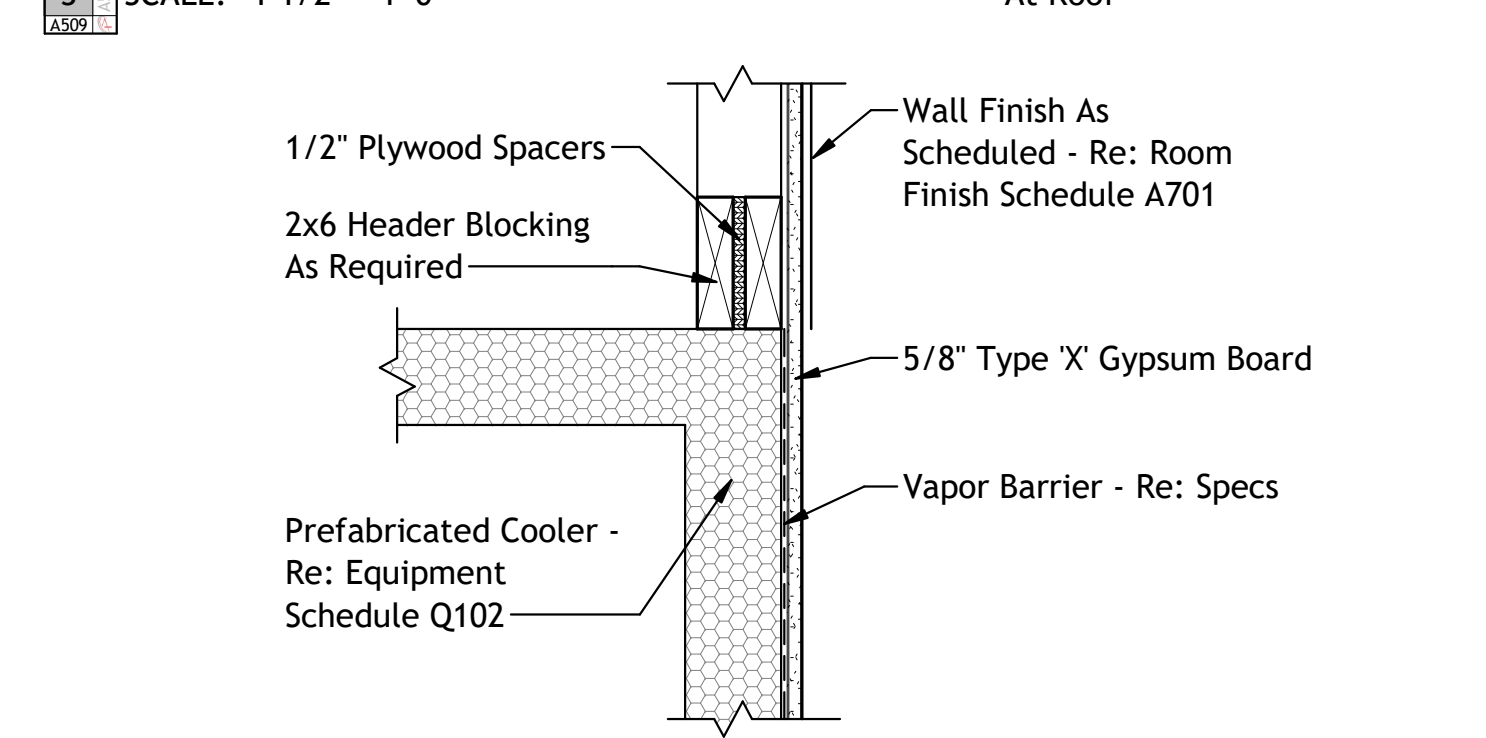
**Ladder Details**  
8 SCALE: 1 1/2" = 1'-0"  
A509



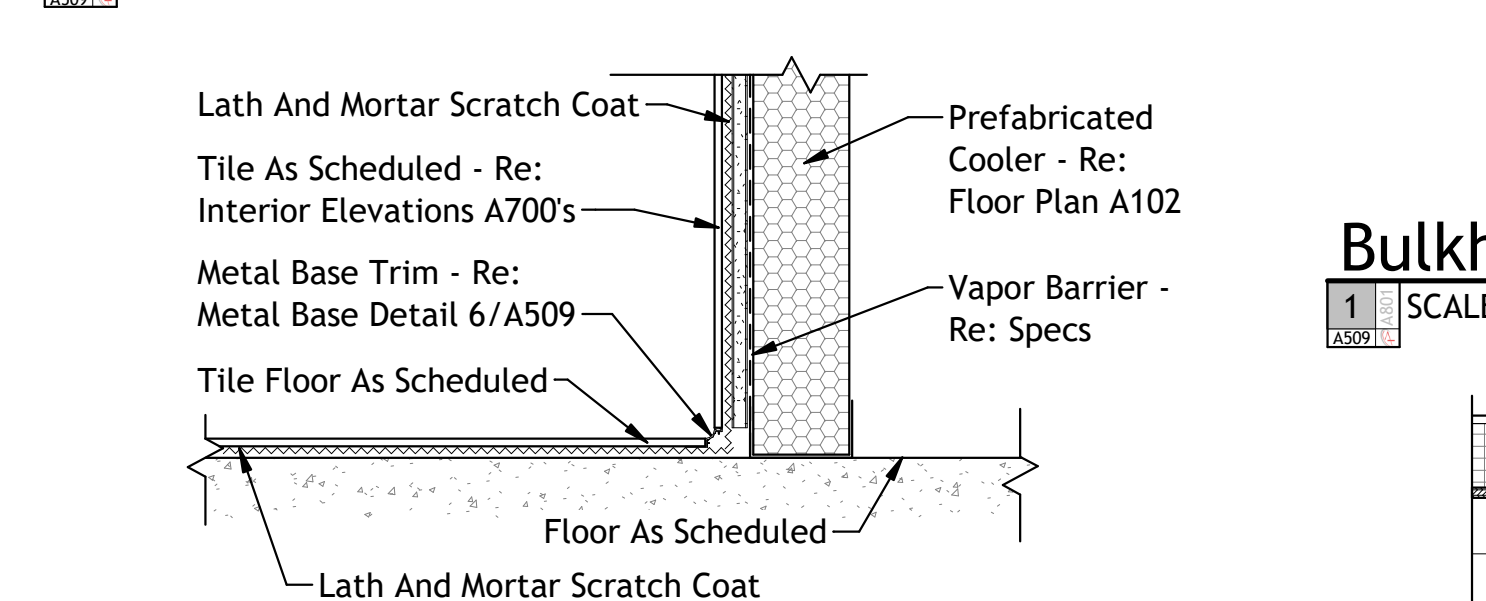
**C: Off-Floor Bracket**  
O'Keeffe's, Inc. System Detail: Off Floor Mounting Bracket



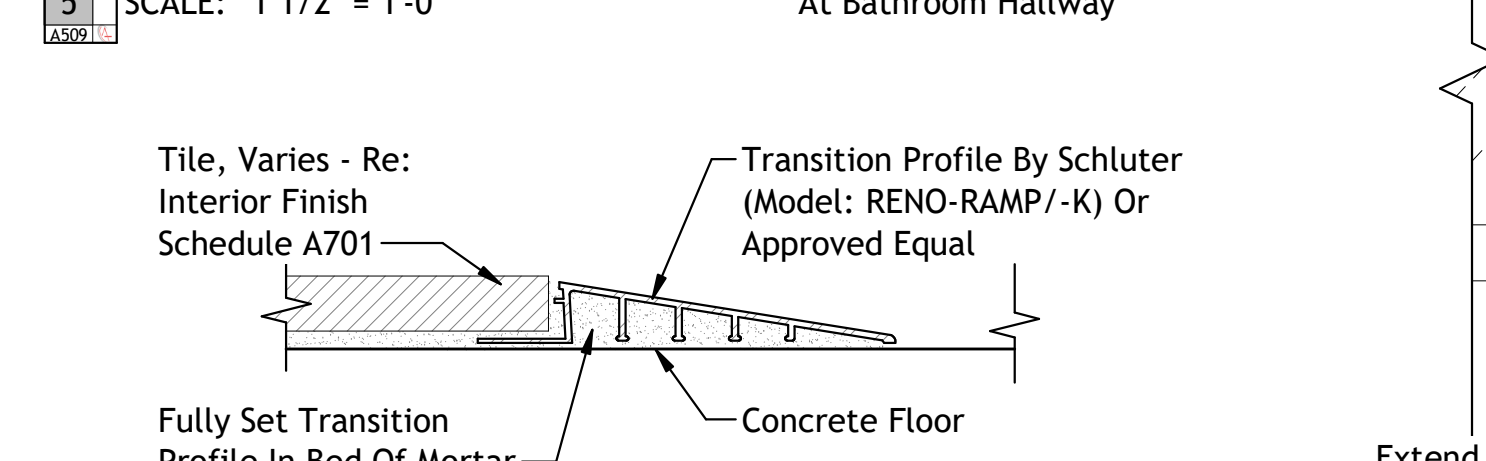
**Stone Flashing**  
3 SCALE: 1 1/2" = 1'-0"  
A509



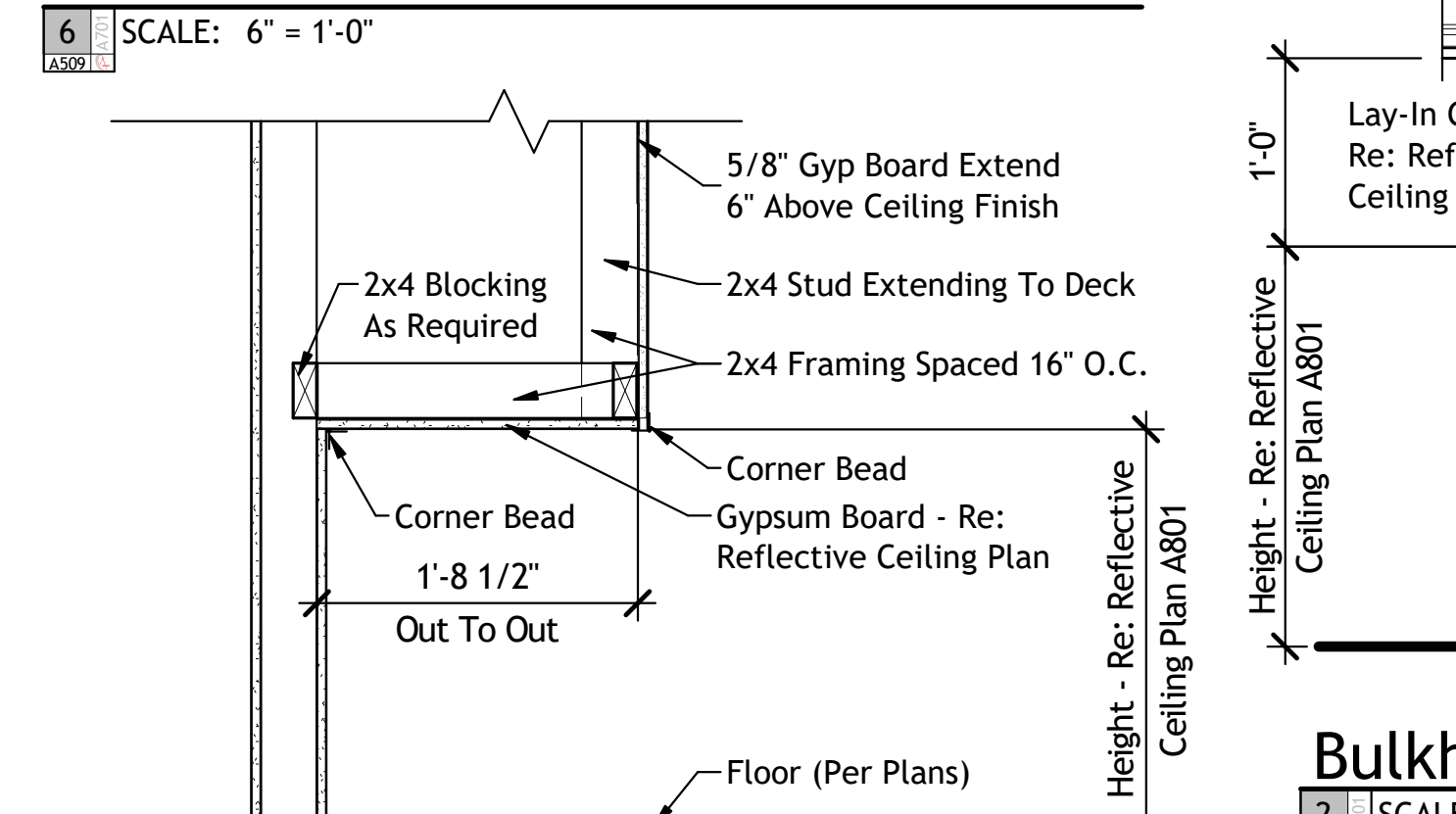
**Cooler Bulkhead**  
4 SCALE: 1 1/2" = 1'-0"  
A509



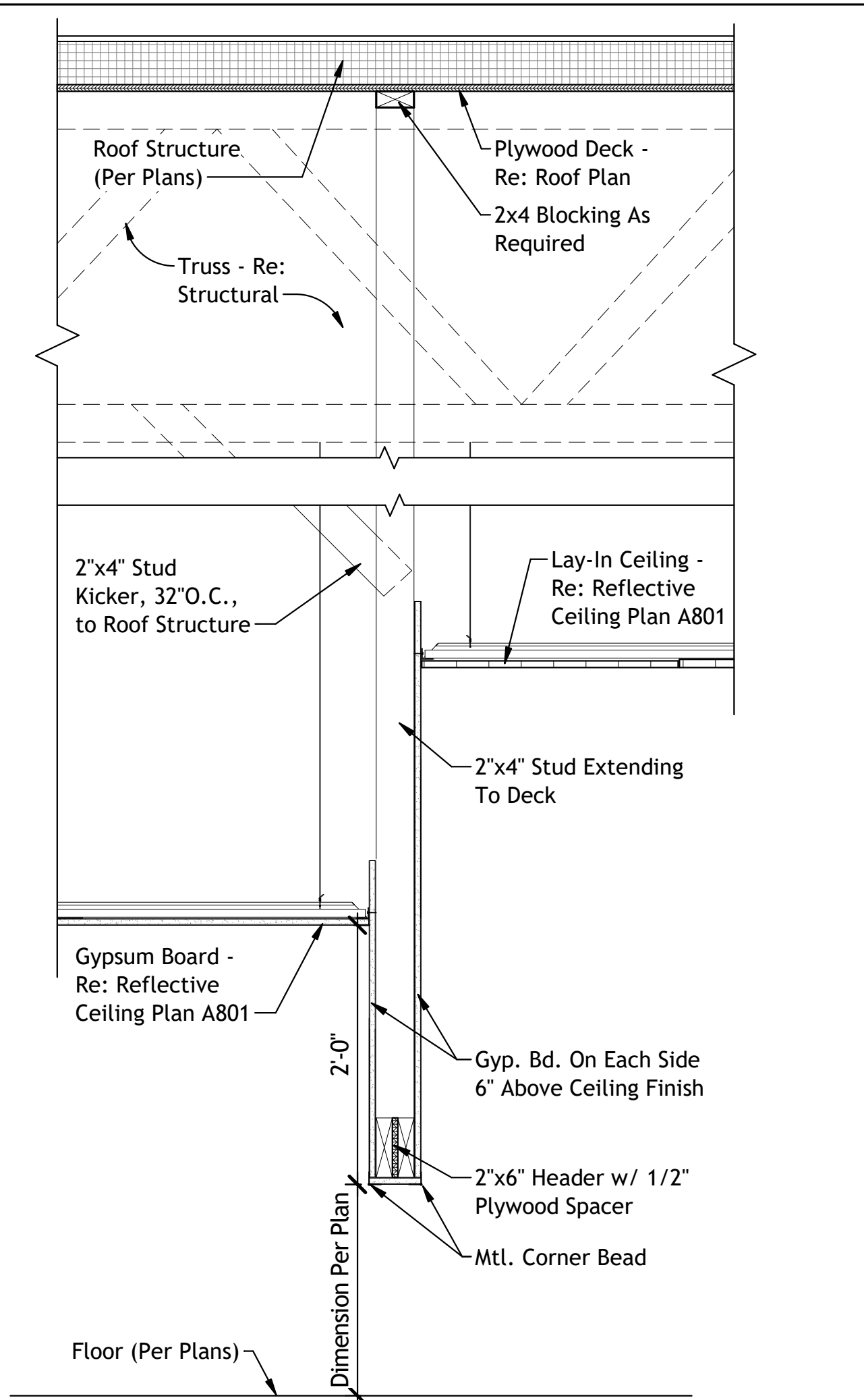
**Tile On IMP**  
5 SCALE: 1 1/2" = 1'-0"  
A509



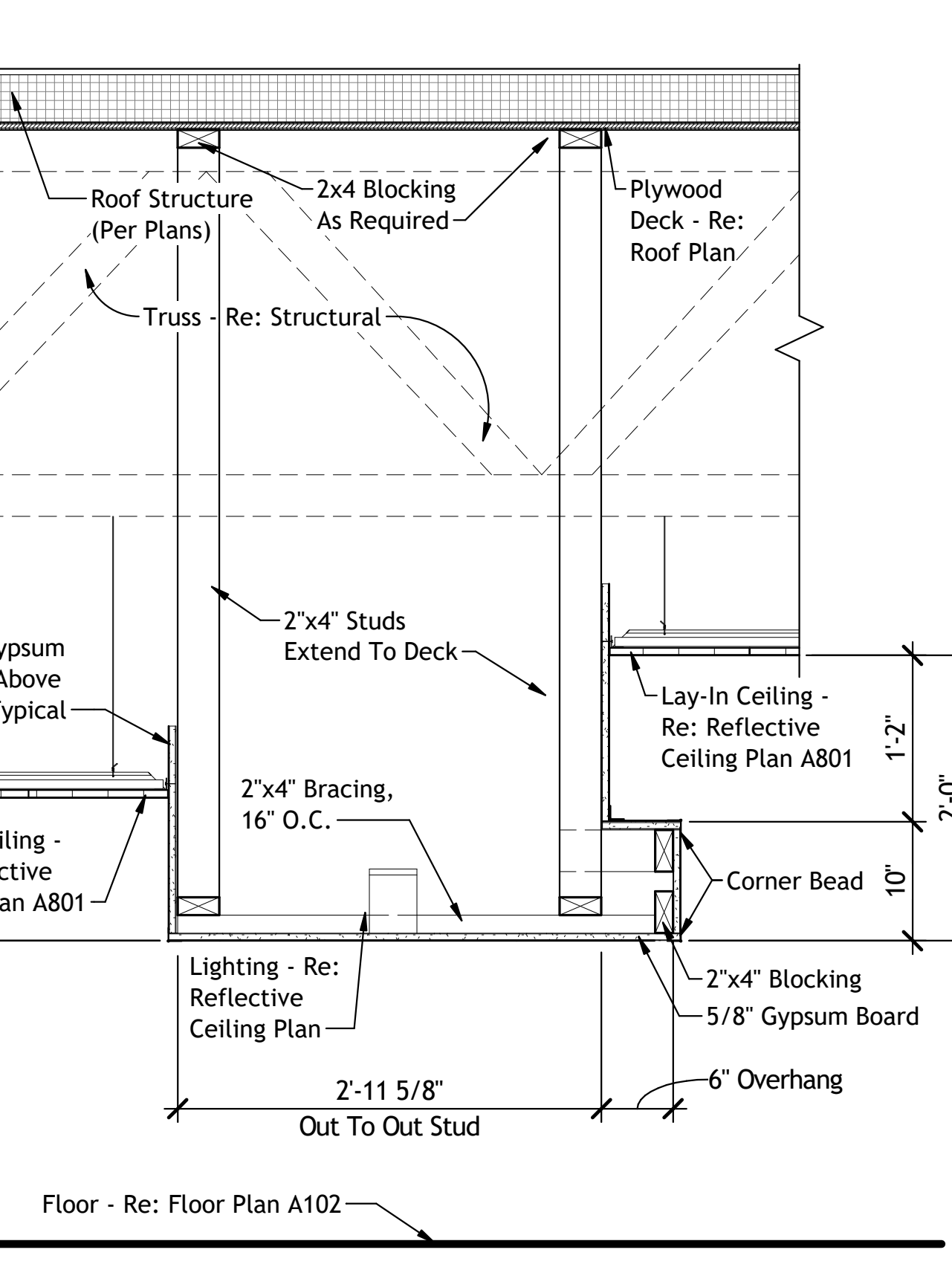
**Tile To Concrete Transition**  
6 SCALE: 6" = 1'-0"  
A509



**Bulkhead Detail**  
7 SCALE: 1" = 1'-0"  
A509



**Bulkhead Detail**  
1 SCALE: 1" = 1'-0"  
A509



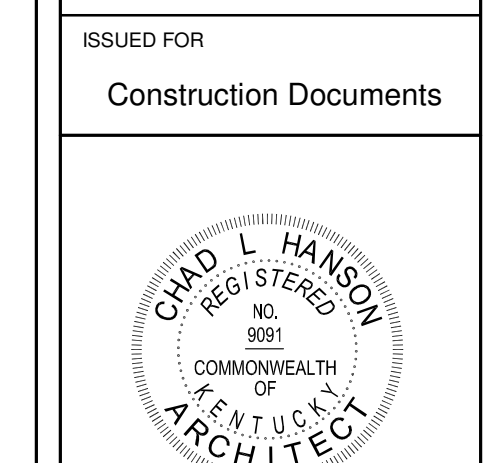
**Bulkhead Detail**  
2 SCALE: 1" = 1'-0"  
A509

REVISION HISTORY

NO.	DESCRIPTION	DATE	APP.
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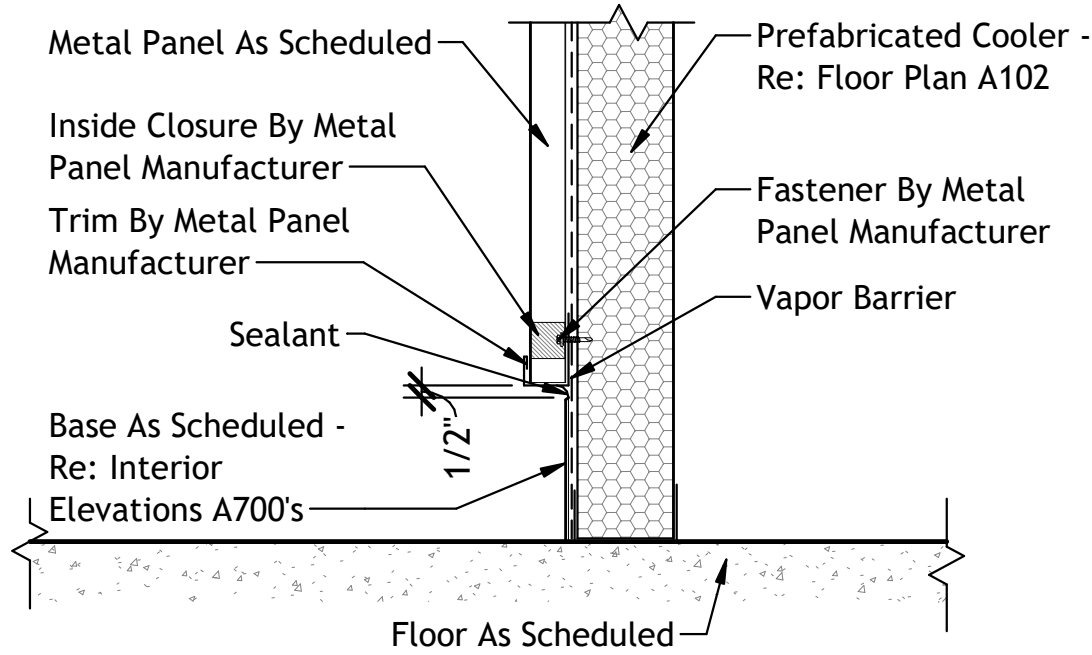
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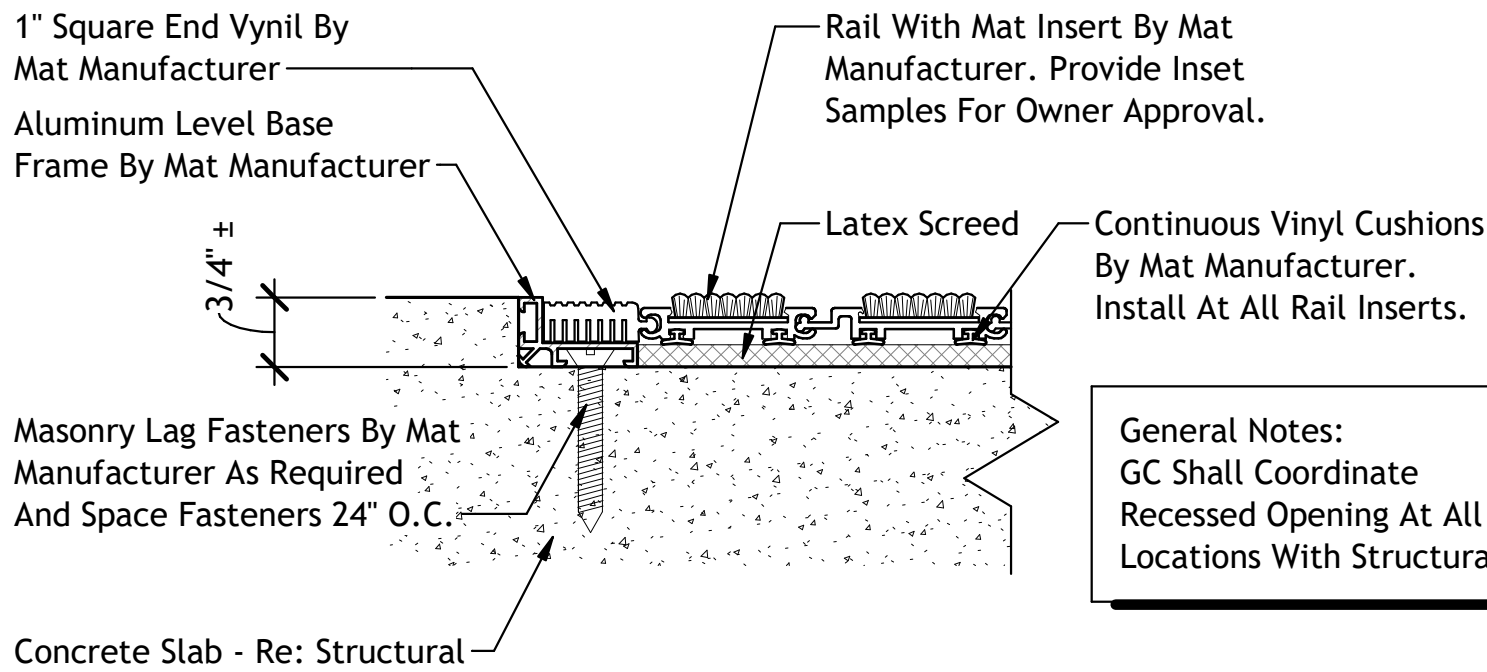
Acee's Truck Stop Fulton, Kentucky	
Non-Reduced Sheet Size: 24" x 36" Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.	
DESIGNED	DRAWN
MG	MG
FIELD	FIELD BOOK
CHECKED	CHECK DATE
SHEET TITLE	
Miscellaneous Details	
PROJECT NO. 24007	
DRAWING ISSUED DATE: 10/09/24	
SHEET	
A509	





### Metal Panel On IMP

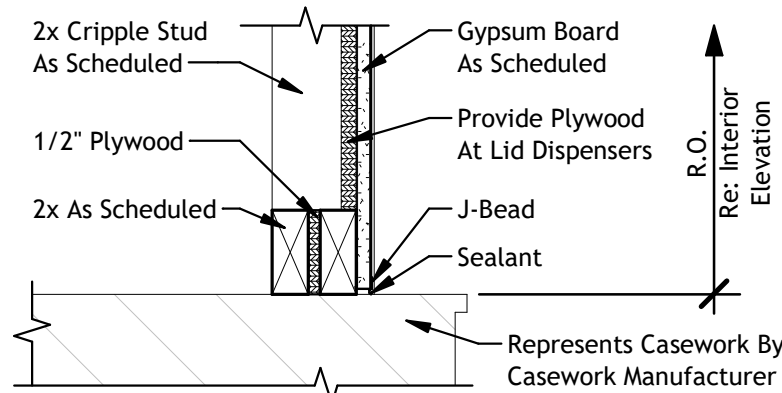
3 SCALE: 1 1/2" = 1'-0"



### Recessed Floor Mat

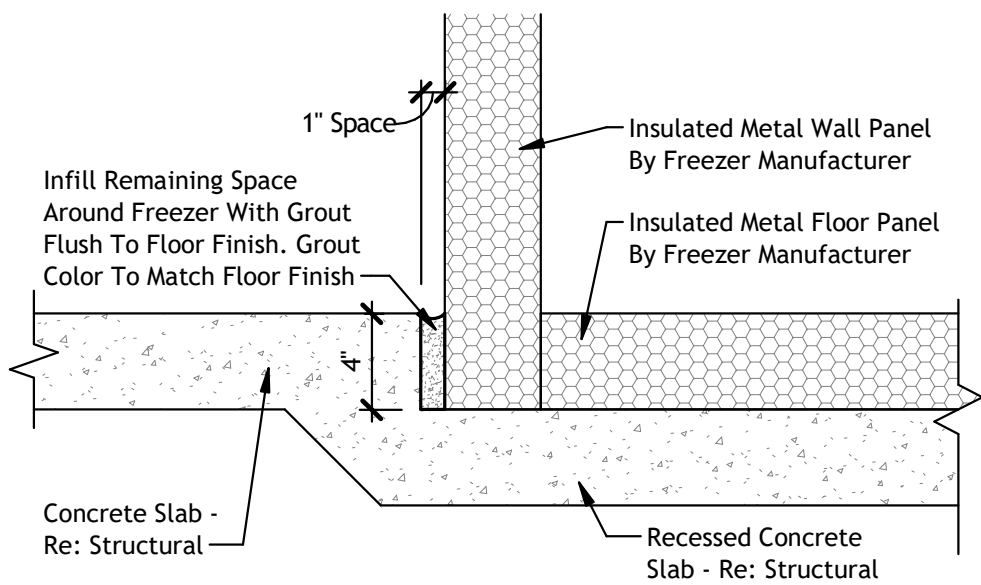
4 SCALE: 6" = 1'-0"

Manuf. System #: Construction Specialties Model Pedimat AA With Recessed Level Base Frame



### Casework Wall Detail

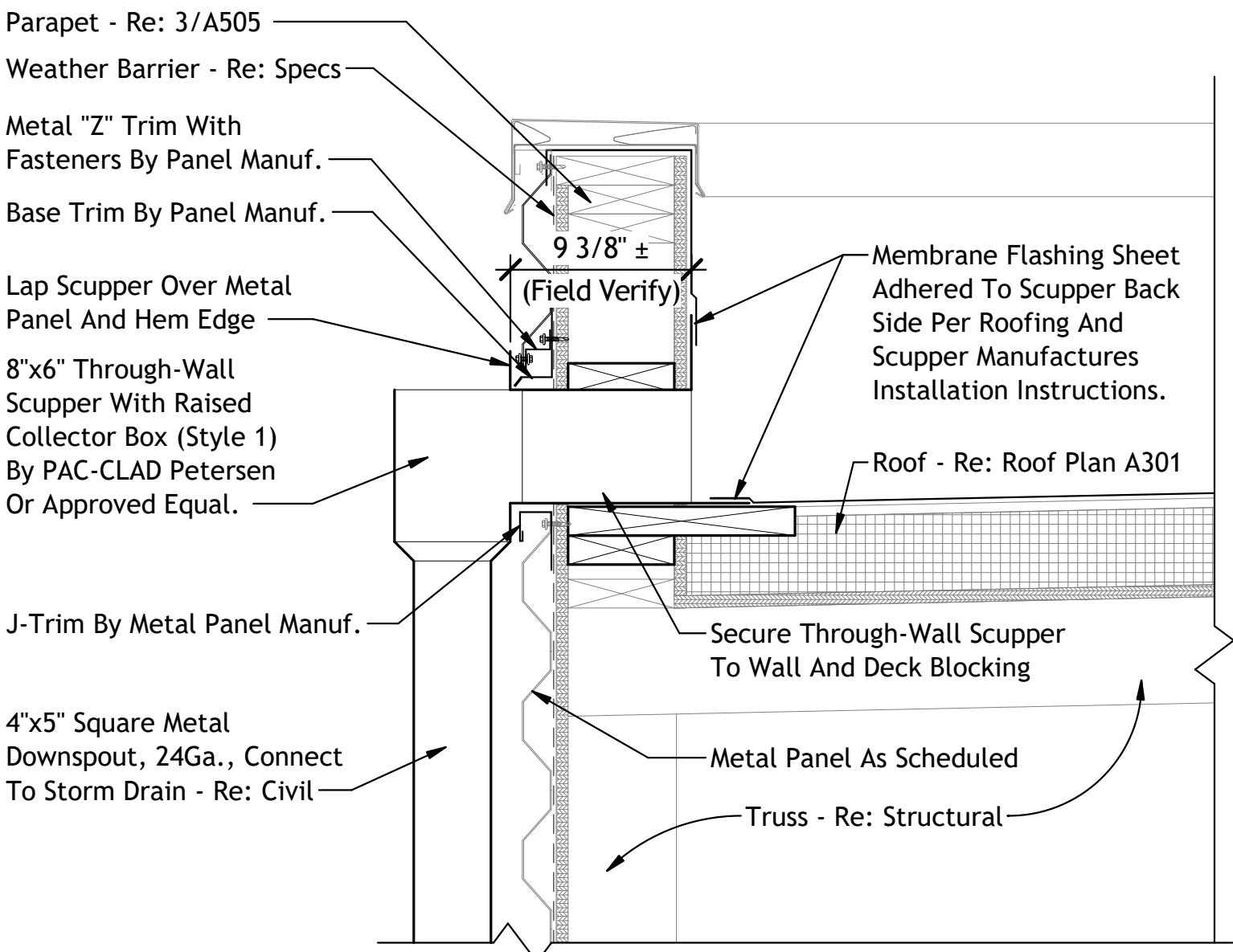
5 SCALE: 1 1/2" = 1'-0"



### Grout Infill Detail

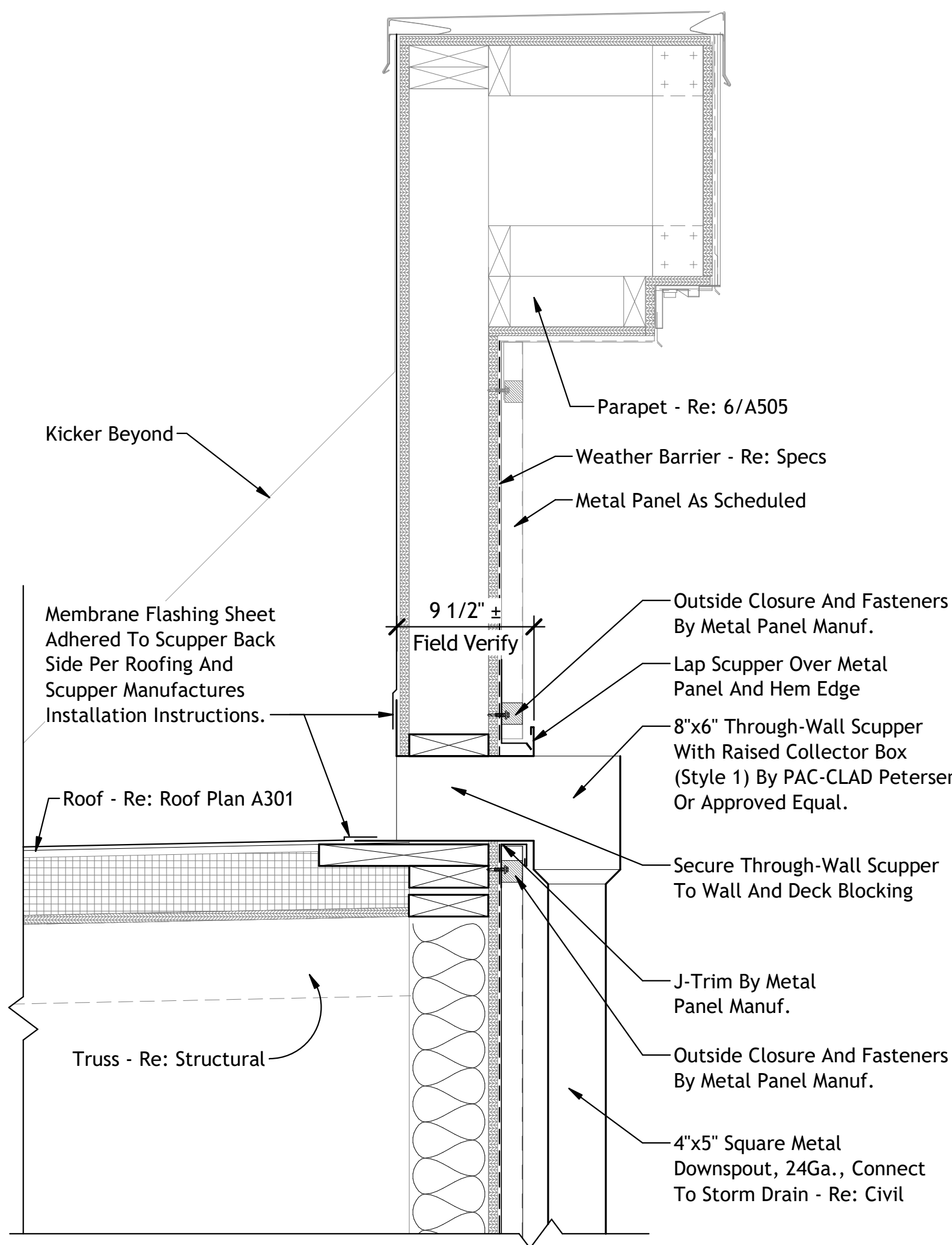
6 SCALE: 1 1/2" = 1'-0"

At Recessed Freezer



### Scupper Detail

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

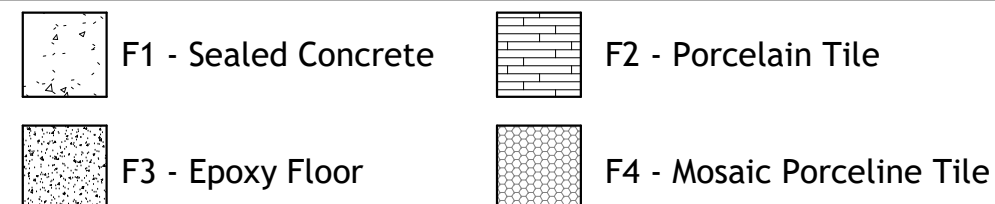


### Scupper Detail

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



## Floor Finish Legend



Alternative F1:  
Provide F2 Alternative Bid In Leiu Of Floors Scheduled F1  
Exept At Walk-In Coolers, Freezers, Electrical & Fuel Control,  
Beer Cave, And Storage Rooms.

## Tile Movement Joints

Interior	Maximum 25'-0" Each Direction
Exterior	8'-0" To 12'-0" Each Direction
Interior Tile Wok Exposed To Direct Sunlight Or Moisture	Maximum 12'-0" Each Direction
Above-Ground Concrete Slab Substrate	Maximum 12'-0" Each Direction

## General Finish Notes:

- Refer Interior Finish Schedule A701 For Floor Specs And Additional Information.
- Tile To Run Continuously Under All Casework.
- Provide Transition Strip Between Tile And Concrete Floor - Re: Tile To Concrete Transition 7/A509
- Prep All Wall Types As Required By Wall Finish Manufacturer.
- Base Detail Varies And Must Be Coordinated With Base Details On A701.
- Metal Panel On Insulated Metal Panel - Re: 3/A510
- Tile On Insulated Metal Panel - Re: 3/A509

## 4046 - Interior Finish Schedule

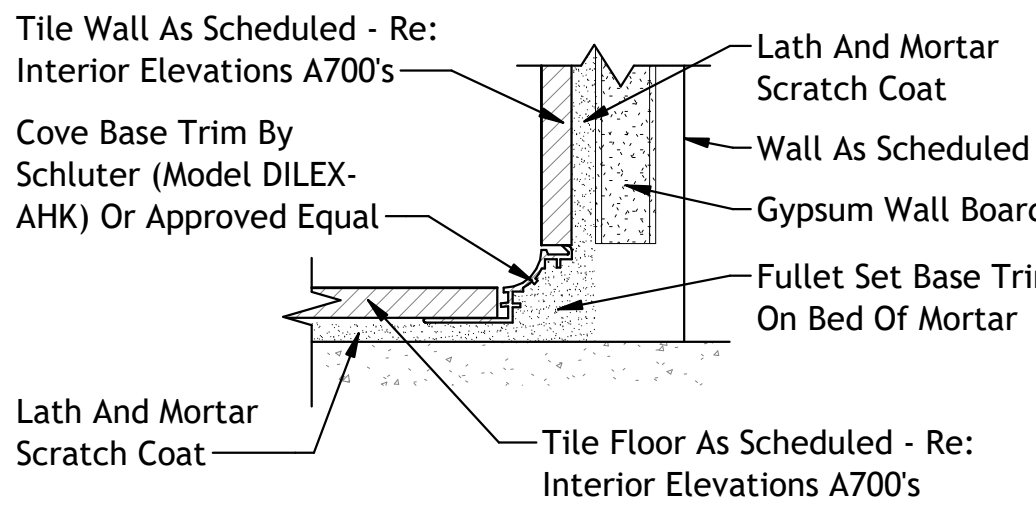
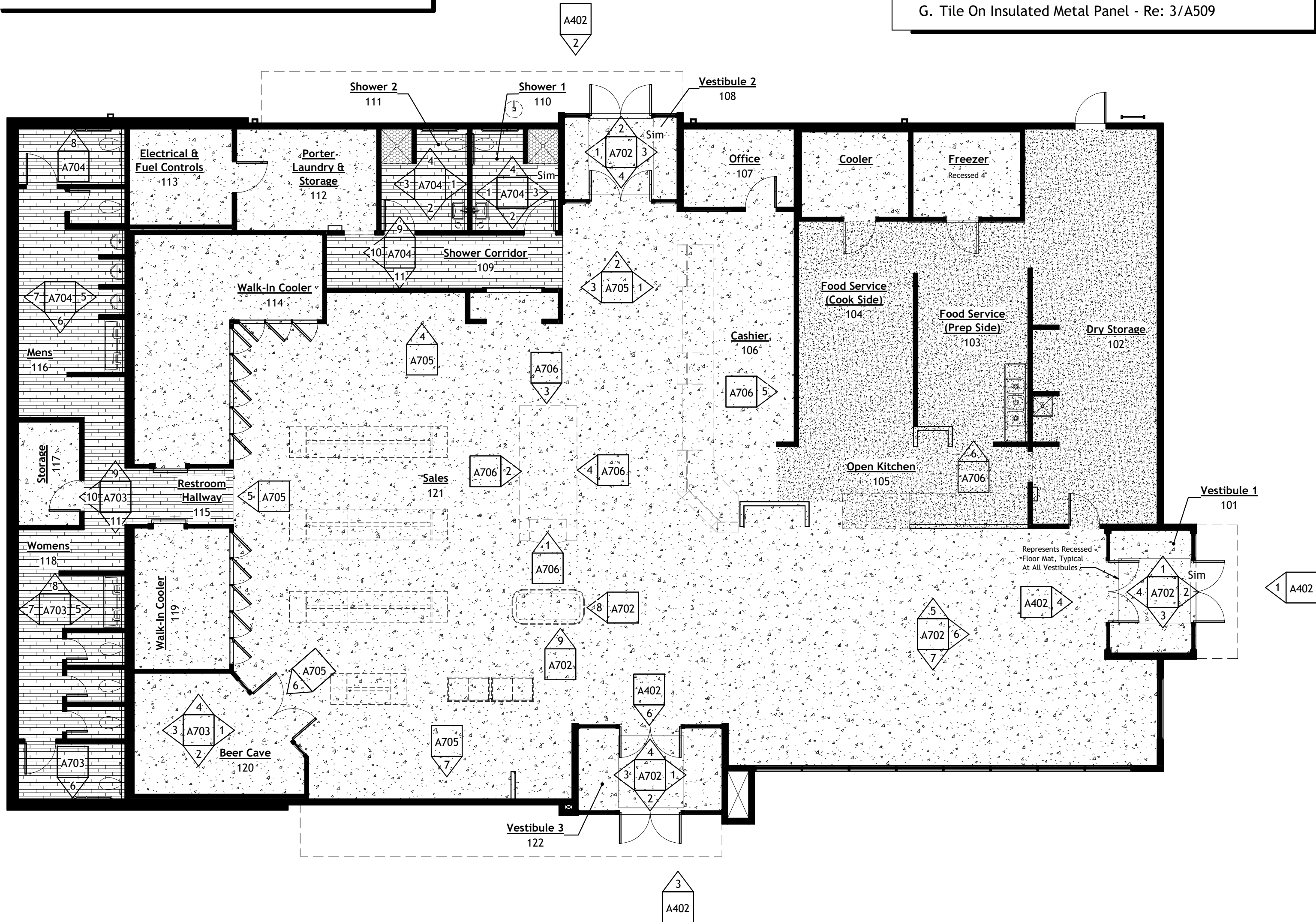
ID	Description	Finish	Manufacturer/Contact
P1	Eggshell Finish Interior Latex Wall & Gypsum Ceiling Paint Paint Mix Tbd By Substrate	#Sw7005 Pure White	Sherwin Williams Charlene Hetcher - 469.822.2881 - Charlene.M.Hetcher@Sherwin.Com
P2	Eggshell Finish Interior Latex Wall Paint Paint Mix Tbd By Substrate	#Sw6866 Heartthrob	Sherwin Williams Charlene Hetcher - 469.822.2881 - Charlene.M.Hetcher@Sherwin.Com
P3	Eggshell Finish Interior Latex Wall Paint Paint Mix Tbd By Substrate	#Sw6811 Honorable Blue	Sherwin Williams Charlene Hetcher - 469.822.2881 - Charlene.M.Hetcher@Sherwin.Com
P4	Eggshell Finish Interior Latex Wall Paint Paint Mix Tbd By Substrate	#Sw6907 Forsythia	Sherwin Williams Charlene Hetcher - 469.822.2881 - Charlene.M.Hetcher@Sherwin.Com
P5	Eggshell Finish Interior Latex Wall Paint Paint Mix Tbd By Substrate	#Sw7631 City Loft	Sherwin Williams Charlene Hetcher - 469.822.2881 - Charlene.M.Hetcher@Sherwin.Com
P6	Eggshell Finish Interior Latex Door Frame & Wall Paint Paint Mix Tbd By Substrate	#Sw7071 Gray Screen	Sherwin Williams Charlene Hetcher - 469.822.2881 - Charlene.M.Hetcher@Sherwin.Com
SS1	1/2" Solid Surfacing	#9204Ce Morning Ice	Wilsonart Lisa Portillo - 214.634.2310 - Portill@Wilsonart.Com
PL1	Plastic Laminate - Standard Finish	#7991-38 Neowalnut	Wilsonart Lisa Portillo - 214.634.2310 - Portill@Wilsonart.Com
PL2	Plastic Laminate - Standard Finish	#D417-60 Lapis Blue	Wilsonart Lisa Portillo - 214.634.2310 - Portill@Wilsonart.Com
PL3	Plastic Decometal Laminate	#6257 Satin Brushed Natural Aluminum	Wilsonart Lisa Portillo - 214.634.2310 - Portill@Wilsonart.Com
SW1	3" Slatwall With Laminate Inserts	Face Of Slatwall To Be (Pl1) Inserts Of Slatwall To Be (Pl1)	Marlite (Or Comparable) Nick Vilardell - 330.260.7624 - Nvilardell@Marlite.Com
M1	Western Wave Metal Wall Paneling	#Royal Blue Coordinating Trim Pieces To Match - Trim All Exposed Edges	Western States Metal Roofing (972) 843-4343
M2	Commercial Grade Stainless Steel Wall Paneling	#Standard Finish With Coordinating Trim Pieces, As Needed	Local Metal Supplier Sourced By General Contractor
FRP1	45" X 48" Symmetrix Smartseam Frp Paneling 3" X 6" Tile Configuration - Subway Horizontal	#Ssa917-G63 White With Grey Grout Lines (#Anodized Trim Where Needed)	Marlite Nick Vilardell - 330.260.7624 - Nvilardell@Marlite.Com
WT1	12 X 24 Colorbody Porcelain Tile Wall Tile - Stacked Bond Installation	Articulo #Column Grey Ar09 Cbp #335 Winter Gray Grout (1/8" Lines)	Daltile Taylor Lewis - 918.527.3320 - Taylor.Lewis1@Daltile.Com
WT2	12 X 24 Colorbody Porcelain Tile Wall Tile - Stacked Bond Installation	Astronomy #Solstice At72 Cbp #335 Winter Gray Grout (1/8" Lines)	Daltile Taylor Lewis - 918.527.3320 - Taylor.Lewis1@Daltile.Com
WT3	4 X 12 Glazed Ceramic Tile Wall Tile - Vertical Running Bond Installation	Mythology #Harmonia Cbp #542 Graystone Grout (1/16" Lines)	Daltile Taylor Lewis - 918.527.3320 - Taylor.Lewis1@Daltile.Com
B1	6" Rubber Cove Wall Base (At Cabinetry)	#100 Black	Roppe (Thru Professional Flooring Supply) Tabitha Myers - 1.800.537.9527 - Tabitha.Myers@Professionalflooring.Com
B2	3/8" Metal Cove Wall Base	#Dilex-Ahk Profile In #Satin Anodized Aluminum	Schluter Systems Chelsea Enloe - 682.338.2069 - Cenloe@Schluter.Com
TR1	Metal Trim	#Jolly Profile In #Satin Anodized Aluminum	Schluter Systems Chelsea Enloe - 682.338.2069 - Cenloe@Schluter.Com
F1	Sealed Natural Concrete Floor Finish	Unstained	See Specs Section 03 35 11 Concrete Floor Finish Sourced By General Contractor
F2	8 X 48 Colorbody Porcelain Tile Floor Finish -	Emerson Wood #Butter Pecan Ep01 Cbp #145 Light Smoke Grout (3/16" Lines)	Daltile Taylor Lewis - 918.527.3320 - Taylor.Lewis1@Daltile.Com
F3	Epoxy Floor System Floor Finish	Armorseal 1000Hs Color: Sw7074 Software With Clear Top Coat	Sherwin Williams Charlene Hetcher - 469.822.2881 - Charlene.M.Hetcher@Sherwin.Com
F4	12 X 12 Mosaic Colorbody Porcelain Tile Floor Finish	Emerson Wood #Butter Pecan 3D Cube Ep01 Cbp #145 Light Smoke Grout (1/8" Lines)	Daltile Taylor Lewis - 918.527.3320 - Taylor.Lewis1@Daltile.Com

### Interior Finish General Notes

- Route All Electrical Components To Decorative Lighting Out Of Customer'S View, If Applicable.
- Schluter Stainless Steel Corner Guards Used On All High Traffic Walls.
- Schluter Eck-K Stainless Steel Edging Profile For Outside Corners Of All Tiled Walls.
- Use Stainless Steel Kick Plates On Both The Inside And Outside Of Restroom Doors, If Applicable.
- All Fixtures On Doors And Jamb's To Be Satin Brushed Aluminum Unless Otherwise Specified.
- Main Sales Cabinet To Be Finished In (Pl1) On Employee Service Side And Support Areas.
- Final Details Of All Cabinetry Coordinated Between Owner And/Or Gc And Millwork Or Metal Cabinet Fabricator. Coordinate Metal Powder Coat Color Spec With Paragon Solutions, If Applicable.
- All Walls That Are Not Drywall (Including But Not Limited To Tile, Wood, Masonry, Etc.) To Be Reinforced With Green Board Behind Wall Finishes.
- All Tile Grout To Have Clear Sealant (Grout Colors Specified On Finish Schedule.)
- All B.O.H. Walls Tbd By Owner And/Or Food Service Program, If Applicable.
- Manager Office Walls Painted (P1) With (B1) And (Pl1) Millwork With (SS1) Countertops, If Applicable.
- Digital Screens/Menu Board Sizes, Makes, Models, Quantity, Mounting Heights, Placement, Etc. To Be Verified By Owner And/Or Food Service Program Prior To Purchase And Installation, If Applicable.
- Reference Colored Interior Renderings By Paragon Solutions For Overall Appearance Of Material Placement.
- Any And All Material Substitutions Must Be Approved By Paragon Solutions.
- Allow 4-6 Weeks (Minimum) Lead Time For Ordering.
- Corporate Qsr Area(S) (Including But Not Limited To Finishes, Graphics, Menu Boards, Millwork, Soffit Heights, Etc.) Tbd By Vendors, If Applicable.
- Walls That Will Be Covered With Vinyl Graphic Wallcovering(S) To Be Primed With Pro-935 R-35® Adhesion Promoting Wallcovering Primer By Roman Decorating Products.
- Ceiling Finish - Refer Reflective Ceiling Plan A801

## Interior Finish Plan

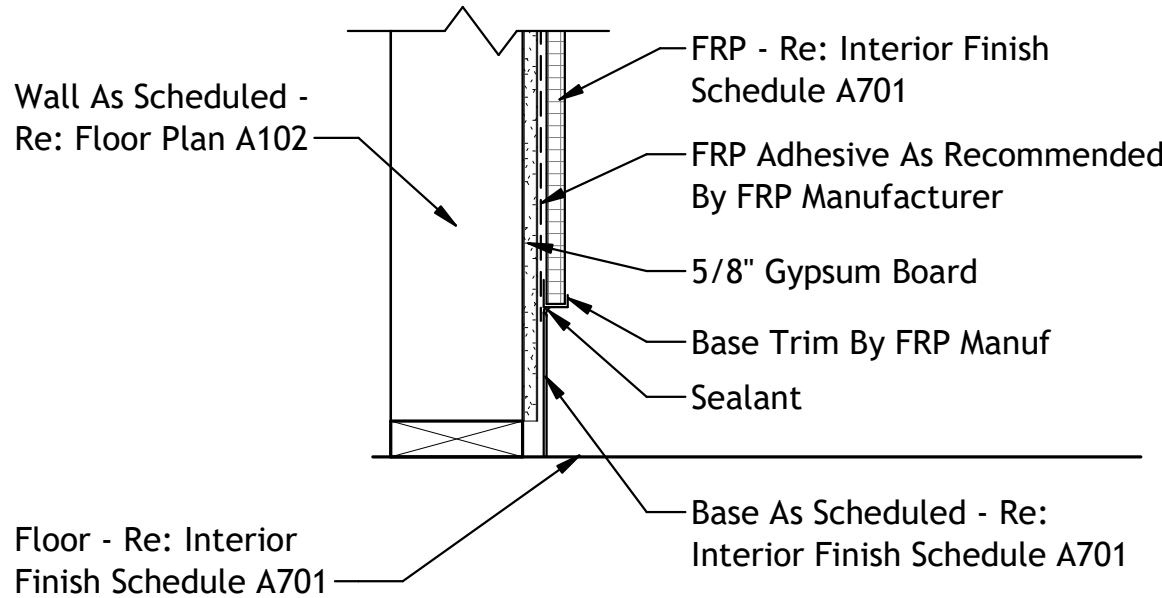
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## Metal Cove Base Detail

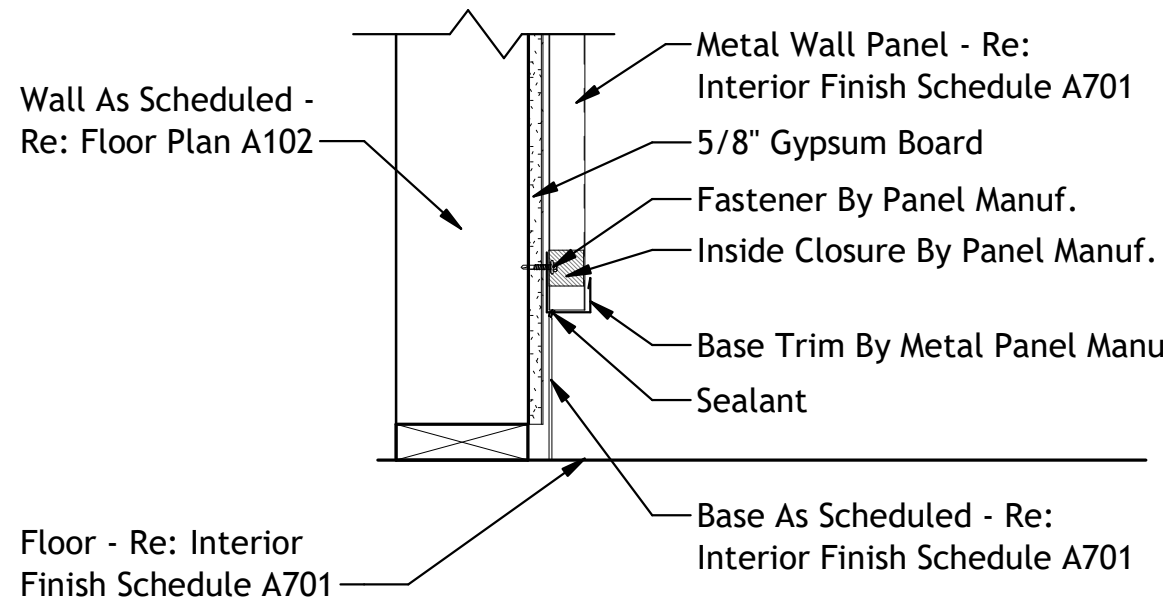
4 SCALE: 6" = 1'-0"

Tile To Tile



## FRP Base Detail

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



## Metal Panel Base Detail

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



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Burlington, IA, and Cape Girardeau, MO  
Columbia, MO, Davenport, IA

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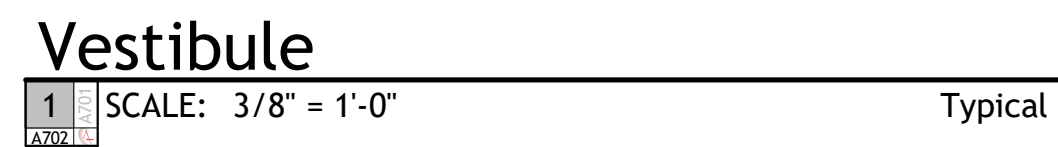
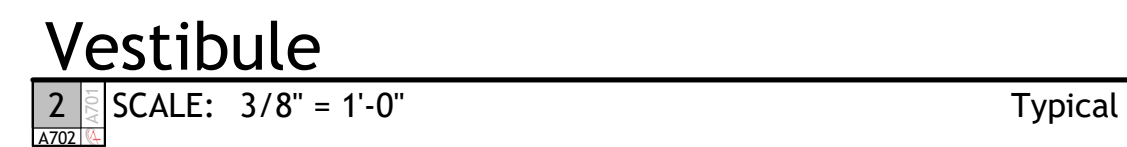
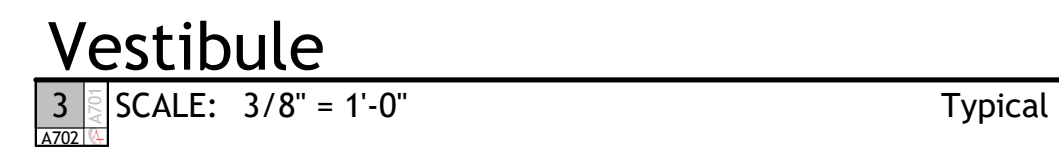
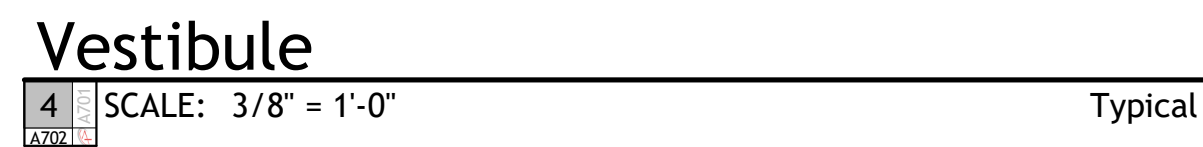
Acee's Truck Stop  
Fulton, Kentucky

Non-Reduced Sheet Size: 24" x 36"  
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

DESIGNED	DRAWN
FIELD	FIELD BOOK
CHECKED	CHECK DATE

SHEET TITLE  
Interior Finish Schedule & Floor Finish Plan  
PROJECT NO.  
24007  
DRAWING ISSUED DATE:  
10/09/24  
SHEET  
A701

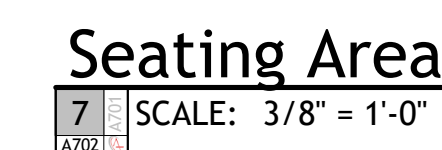
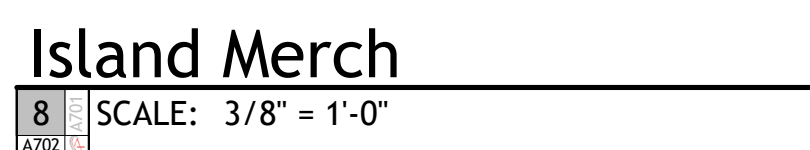
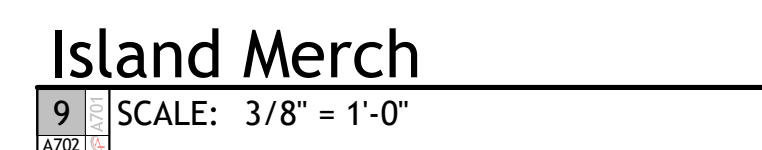
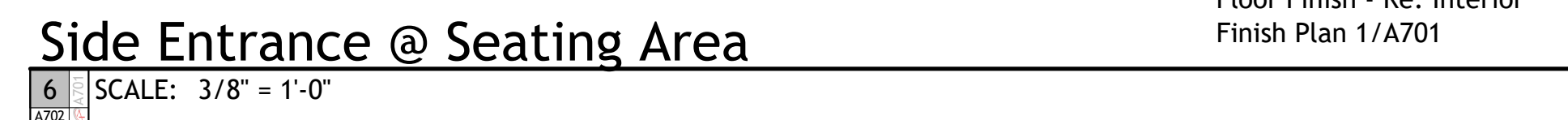




- ## Interior Elevation General Notes:
- |    |  |
|----|--|
| A. | Refer G101 Cover Sheet for additional code information.  |
| B. | Refer G201 & G202 for all ADA mounting heights and additional code information.  |
| C. | All Casework Dimensions Are +/- And Must Be Field Verified.  |
| D. | Coordinate all electrical with MEP Sheets.   |
| E. | Coordinate all plumbing fixtures with MEP Sheets   |
| F. | Aluminum Storefront & Windows - Re: Door & Window Schedule A401  |
| G. | Specialty Equipment And Furniture Shown As Visual Representation Of Approximate Location. All Equipment And Furniture Must Be Coordinate With Owner For Appropriate Location. - Re: Equipment Plan Q101. |
| H. | Base Details Varies - Re: A701   |
| I. | Door Hardware Shown As Visual Representation And Must Be Coordinate With Door Hardware Specs.  |
| J. | Floor Finish - Coordinate With Interior Finish Plan 1/A701 and Interior Finish Schedule A701   |

Applies To Interior Elevations A700's

- |    |   |
|----|---|
| 1G | Interior Graphics - Re: Interior Graphics Schedule A507 |
| P1 | Interior Finish - Re: Interior Finish Schedule A701     |



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**Acee's Truck Stop**  
**Fulton, Kentucky**

Non-Reduced Sheet Size: 24" x 36"	

Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

DESIGNED	DRAWN
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	Author
FIELD	FIELD BOOK


CHECKED .	CHECK DATE .
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SHEET TITLE
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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Interior Elevations

### Interior Elevations

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PROJECT NO.	24003
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24007
DRAWING ISSUED DATE:

10/09/24
SHEET

SHEET

1500

A702







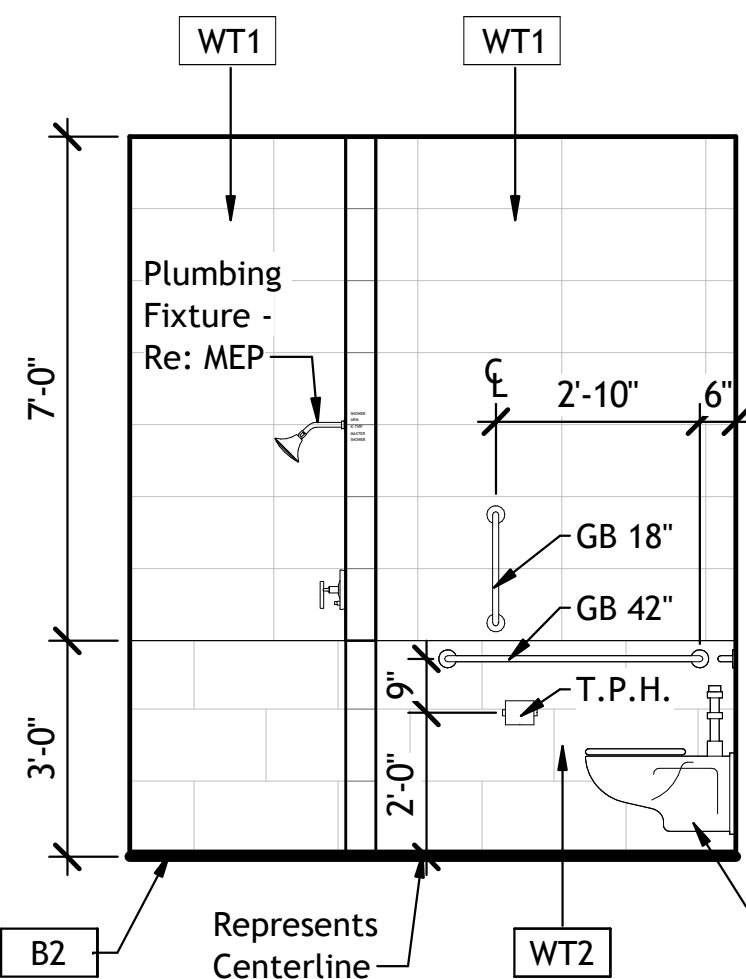


Refer A702 Interior Elevation General Notes & Legend

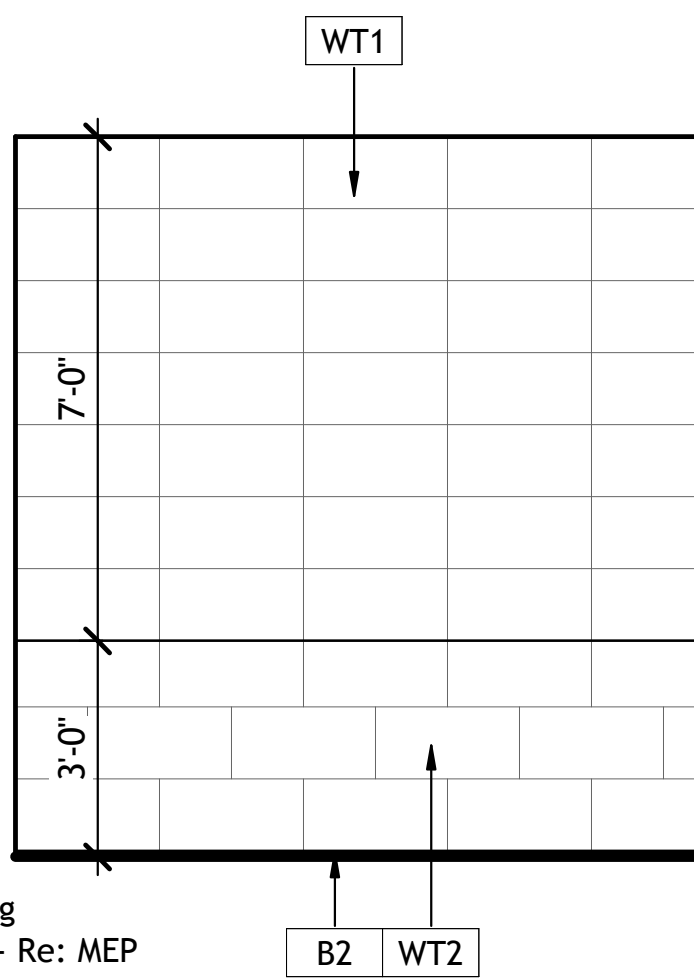
Restroom Hardware

T.P.H. Toilet Paper Holder  
W.M. Wall Mounted Mirror  
G.B. Grab Bar With Size Noted Elevations

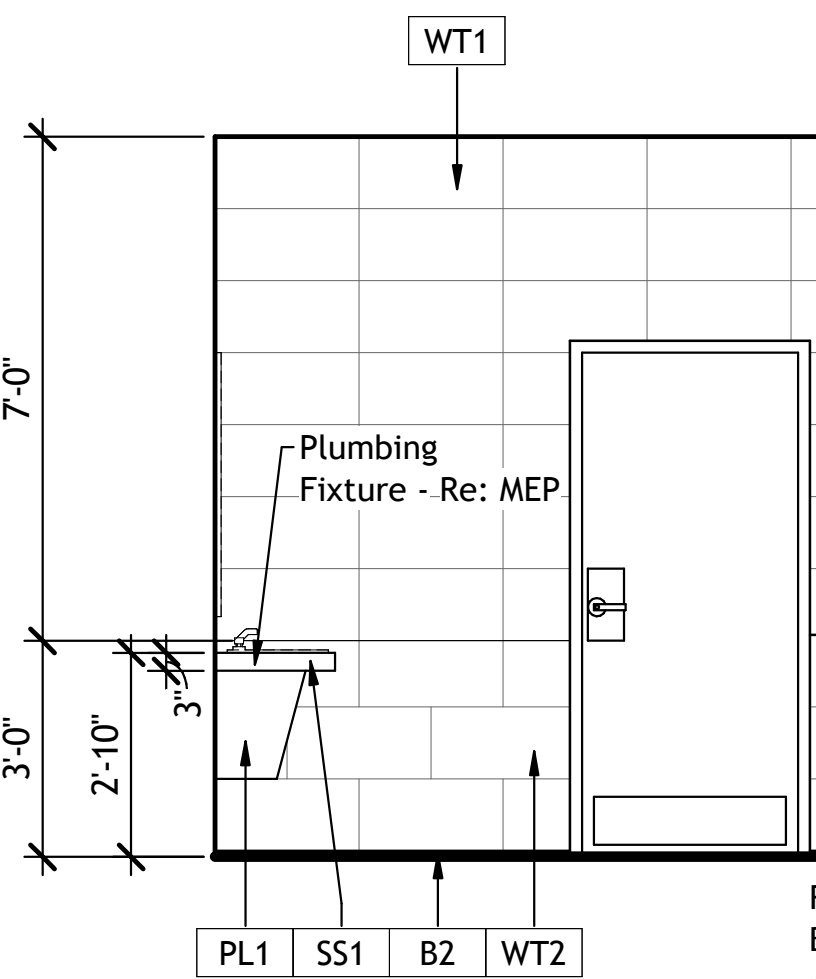
NOTE: Provide Wall Blocking For All Accessories



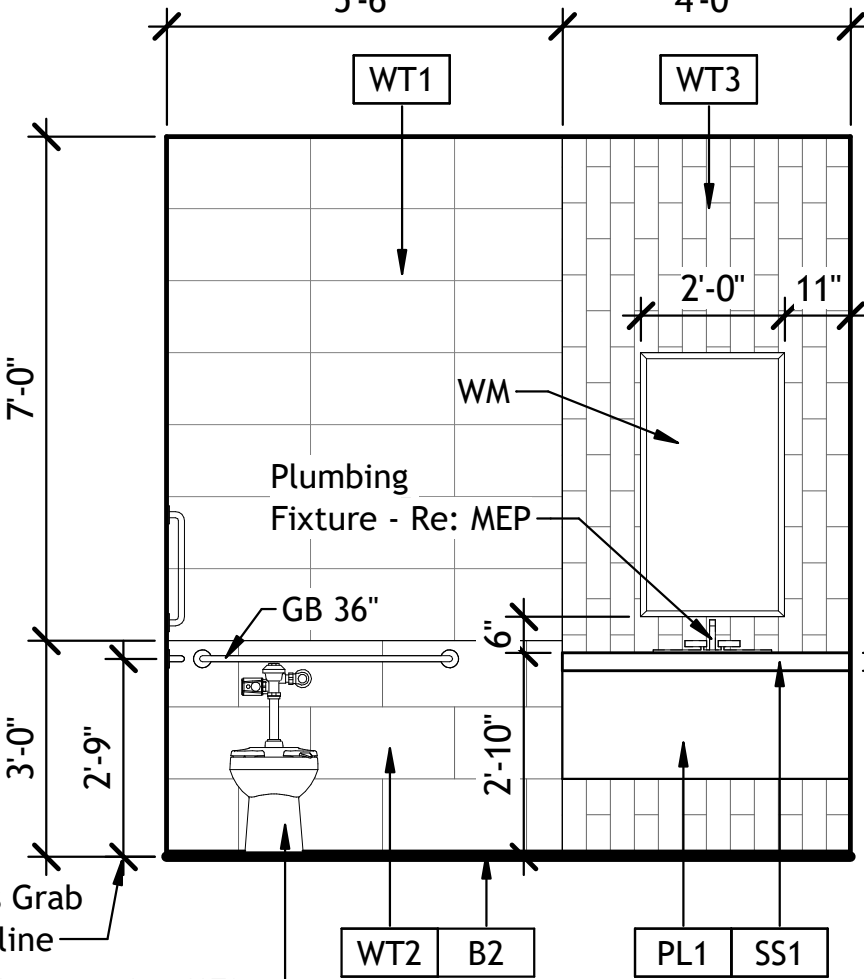
Shower  
4 SCALE: 3/8" = 1'-0"



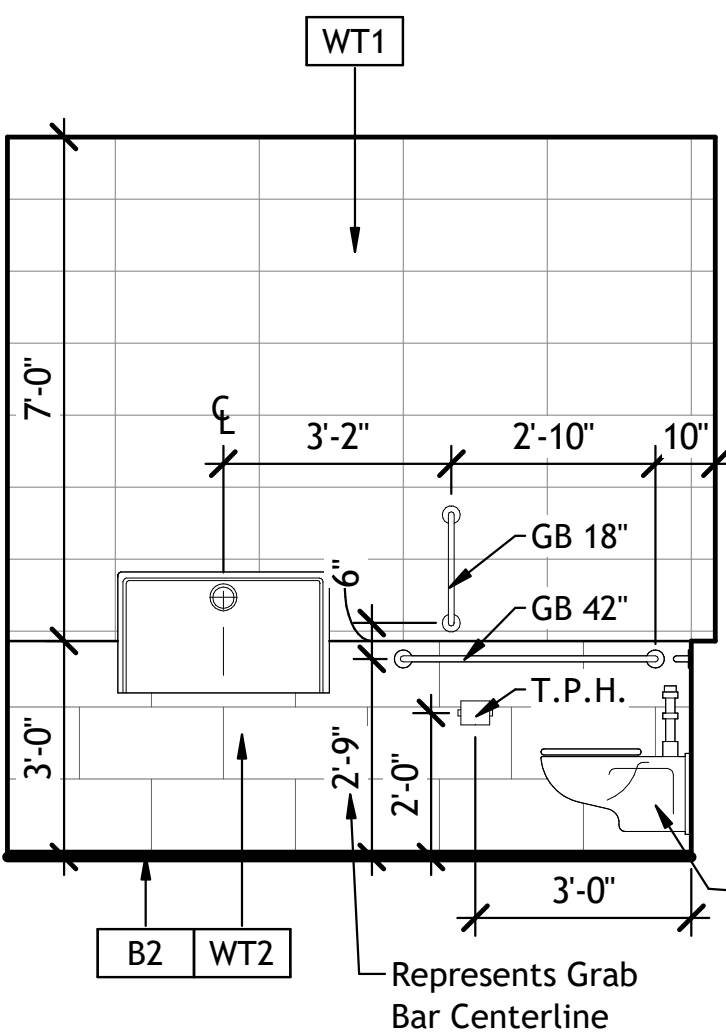
Shower  
3 SCALE: 3/8" = 1'-0"



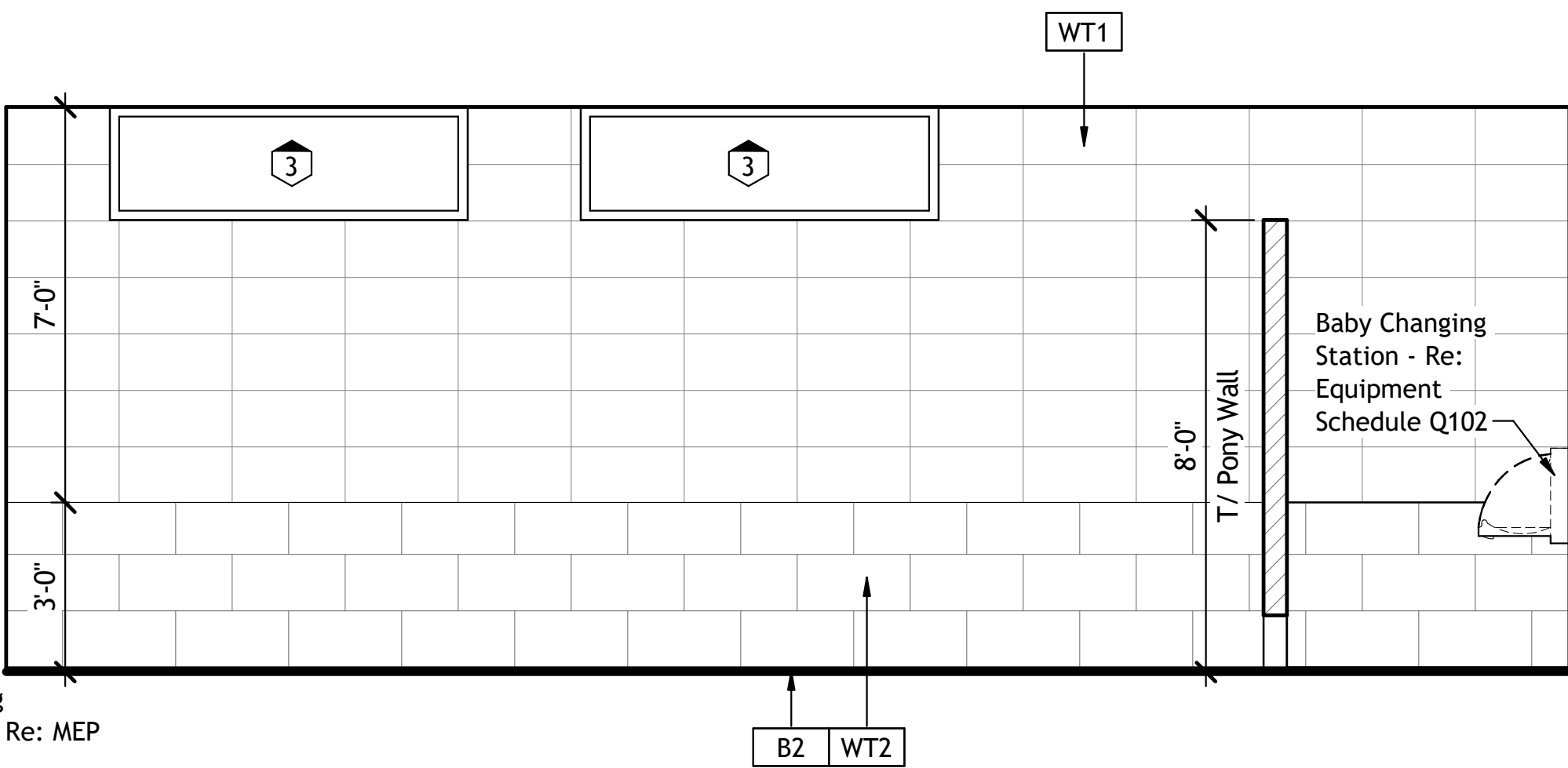
Shower  
2 SCALE: 3/8" = 1'-0"



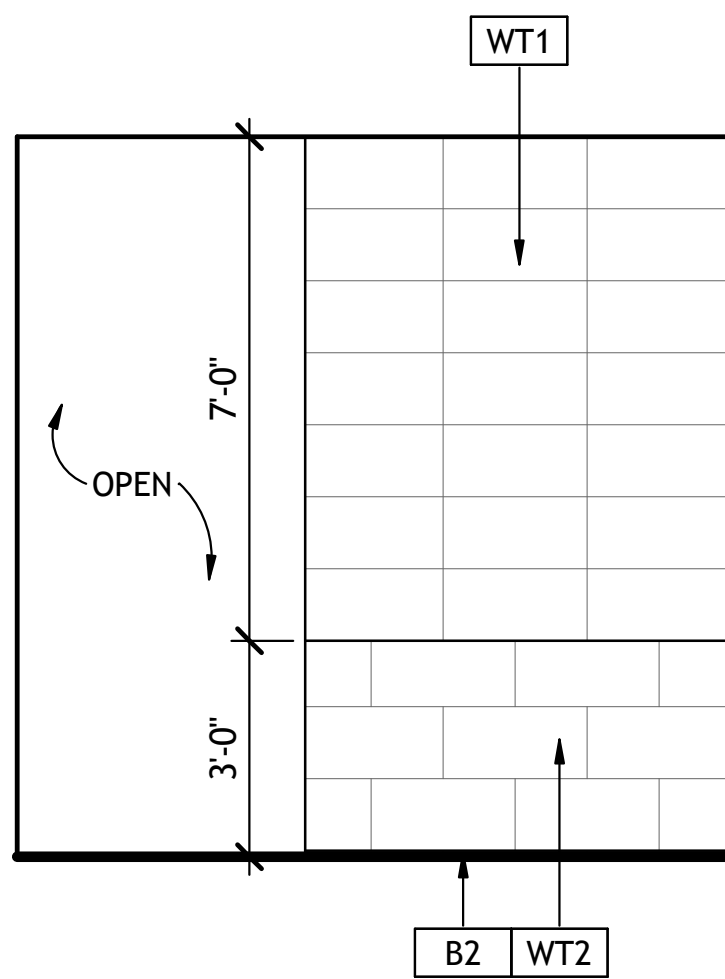
Shower  
1 SCALE: 3/8" = 1'-0"



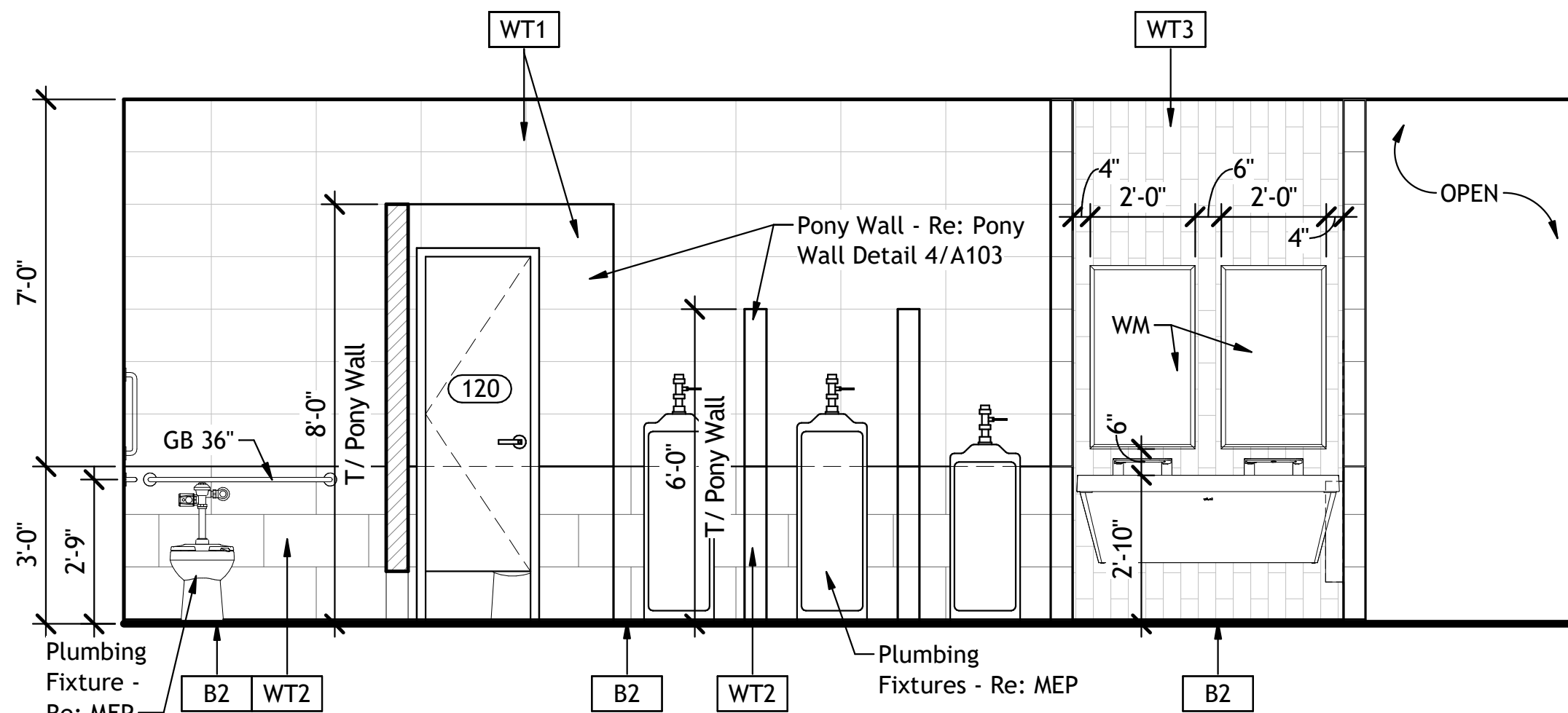
Men's Restroom  
8 SCALE: 3/8" = 1'-0"



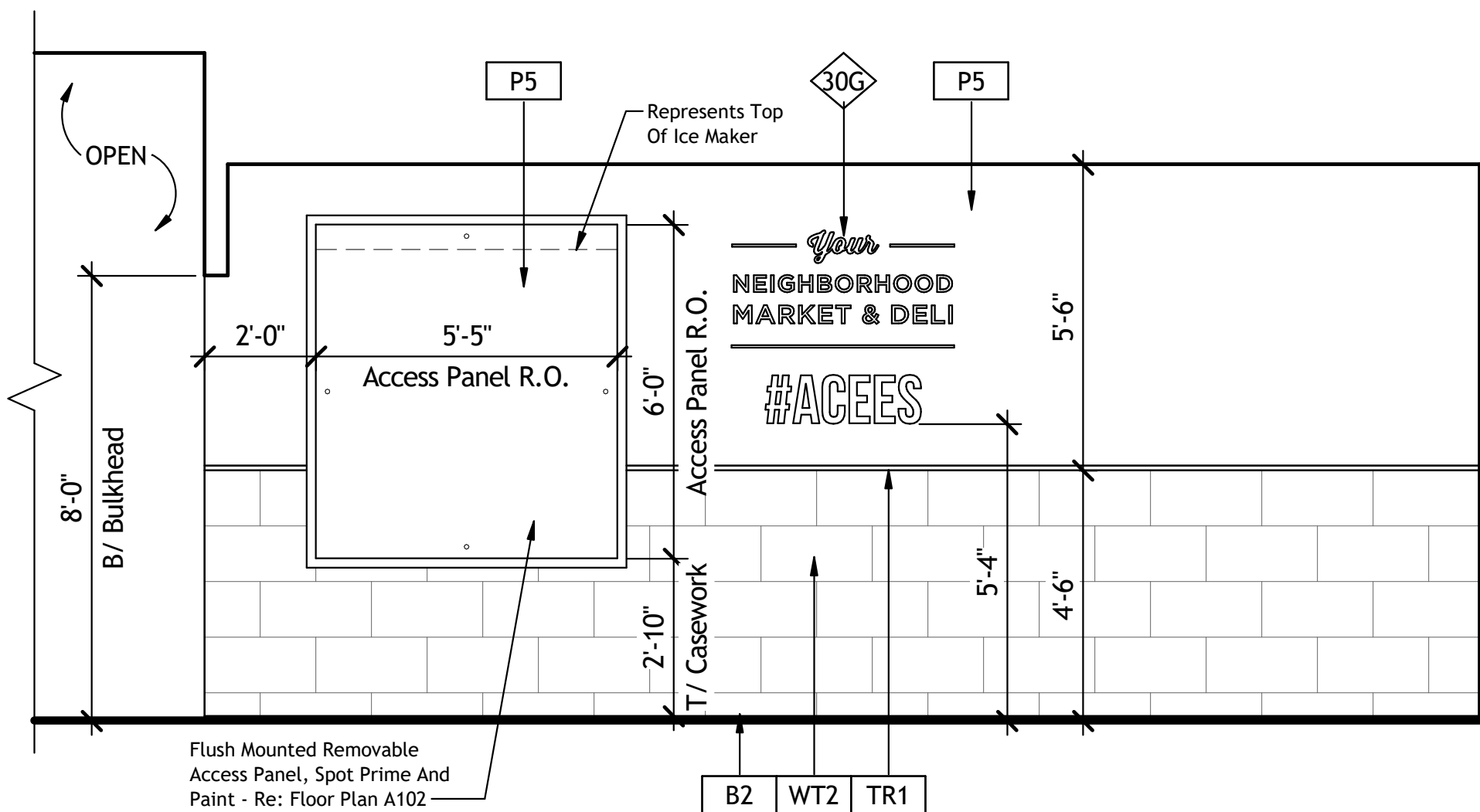
Men's Restroom  
7 SCALE: 3/8" = 1'-0"



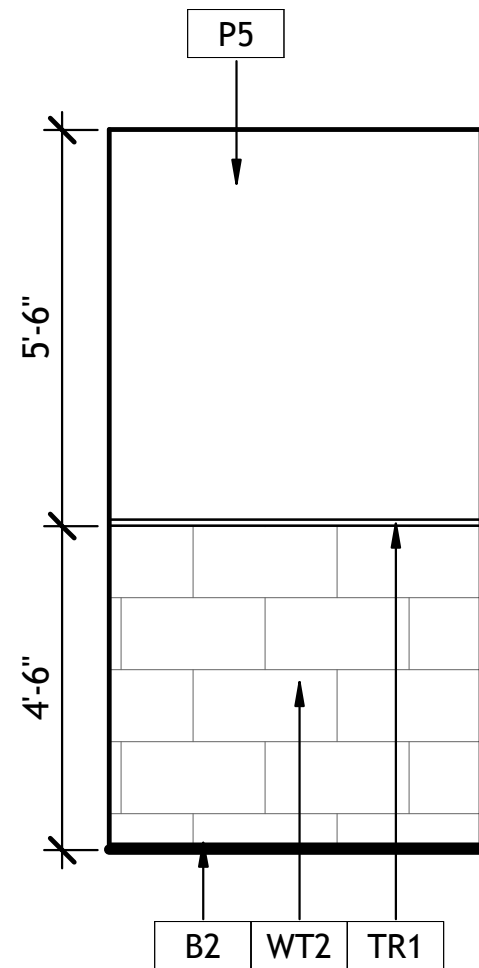
Men's Restroom  
6 SCALE: 3/8" = 1'-0"



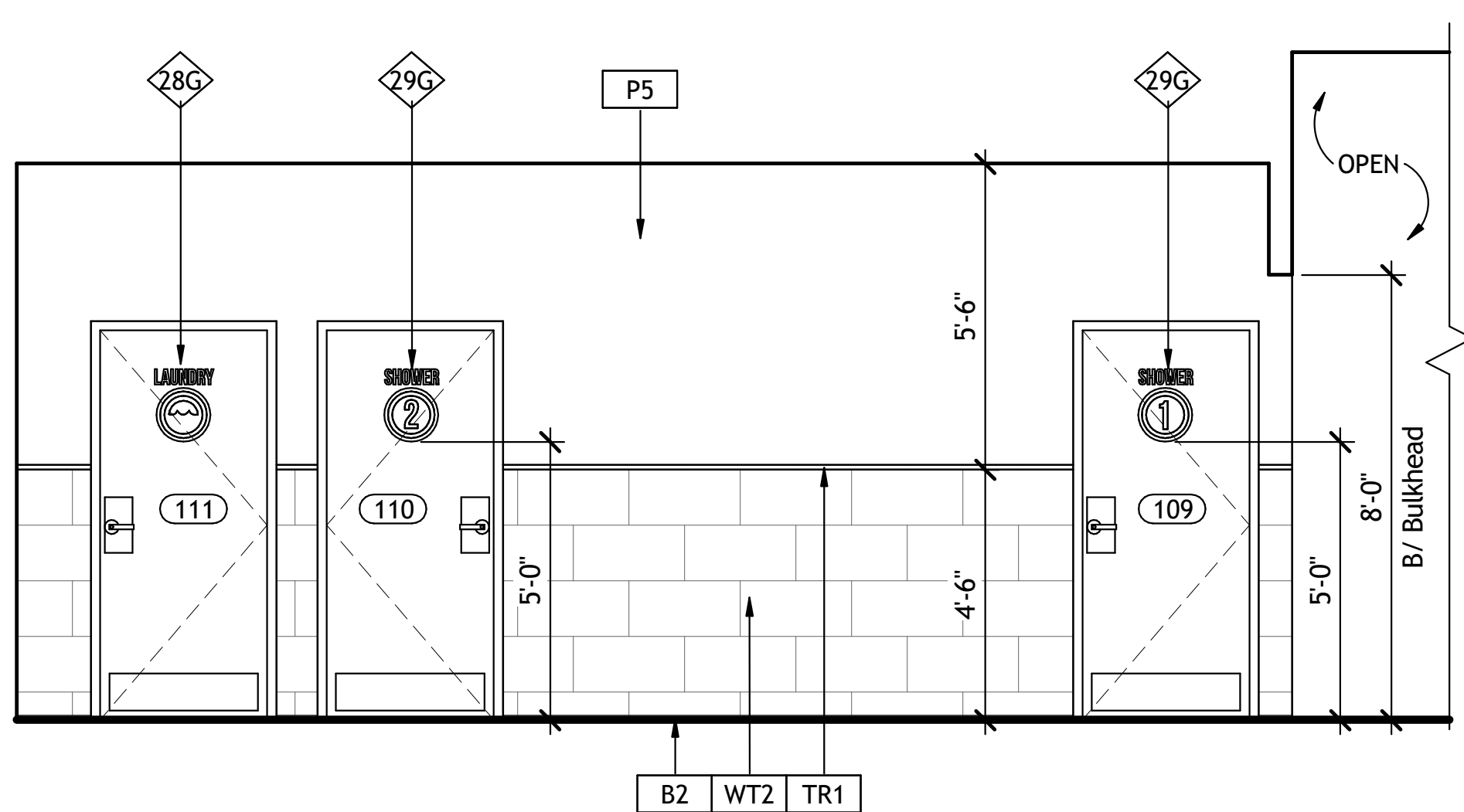
Men's Restroom  
5 SCALE: 3/8" = 1'-0"



Shower Corridor  
11 SCALE: 3/8" = 1'-0"



Shower Corridor  
10 SCALE: 3/8" = 1'-0"



Shower Corridor  
9 SCALE: 3/8" = 1'-0"

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NO.	DESCRIPTION	DATE	APP.
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Construction Documents



Acee's Truck Stop  
Fulton, Kentucky

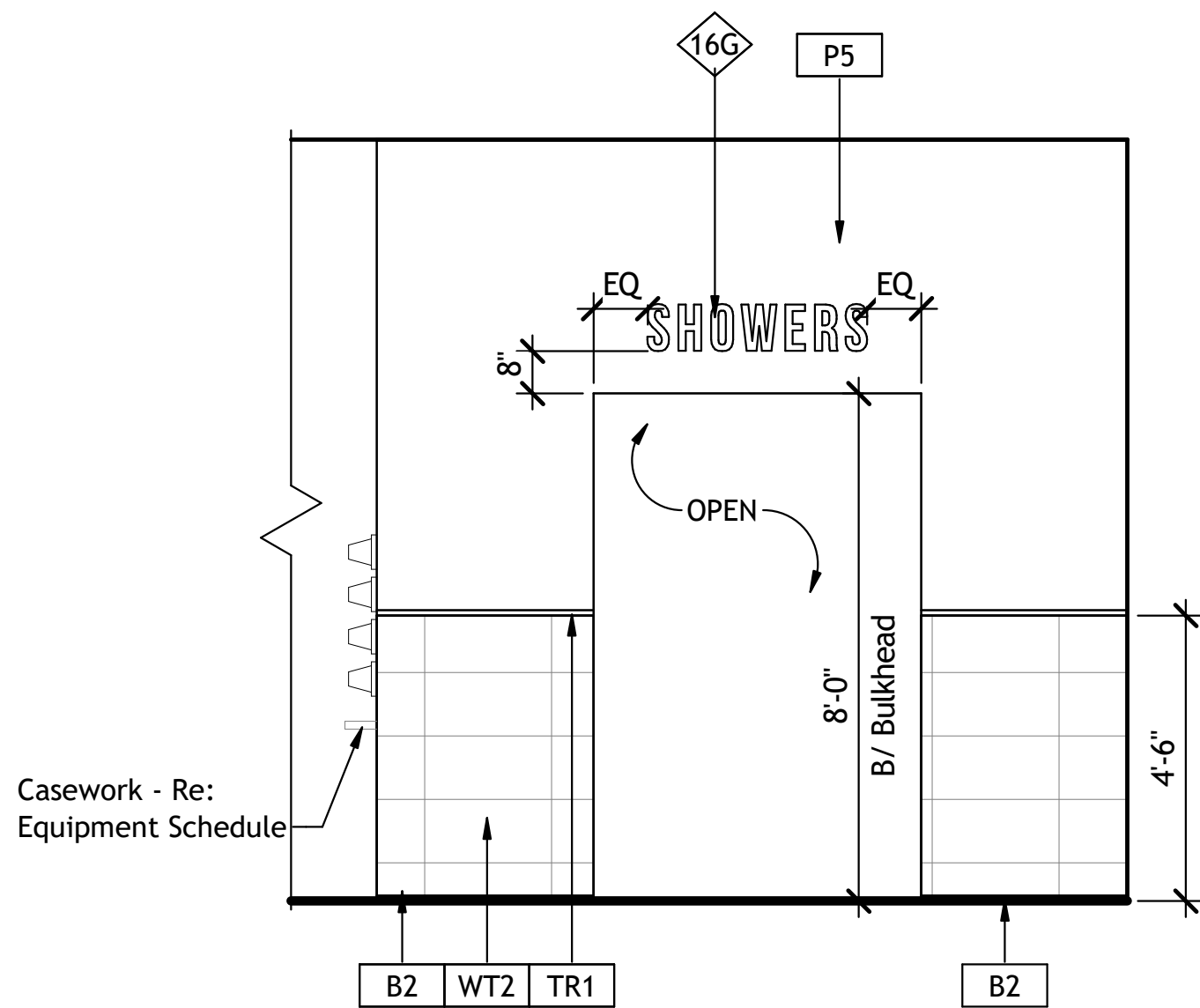
DESIGNED	DRAWN
FIELD	FIELD BOOK
CHECKED	CHECK DATE

SHEET TITLE

Interior Elevations

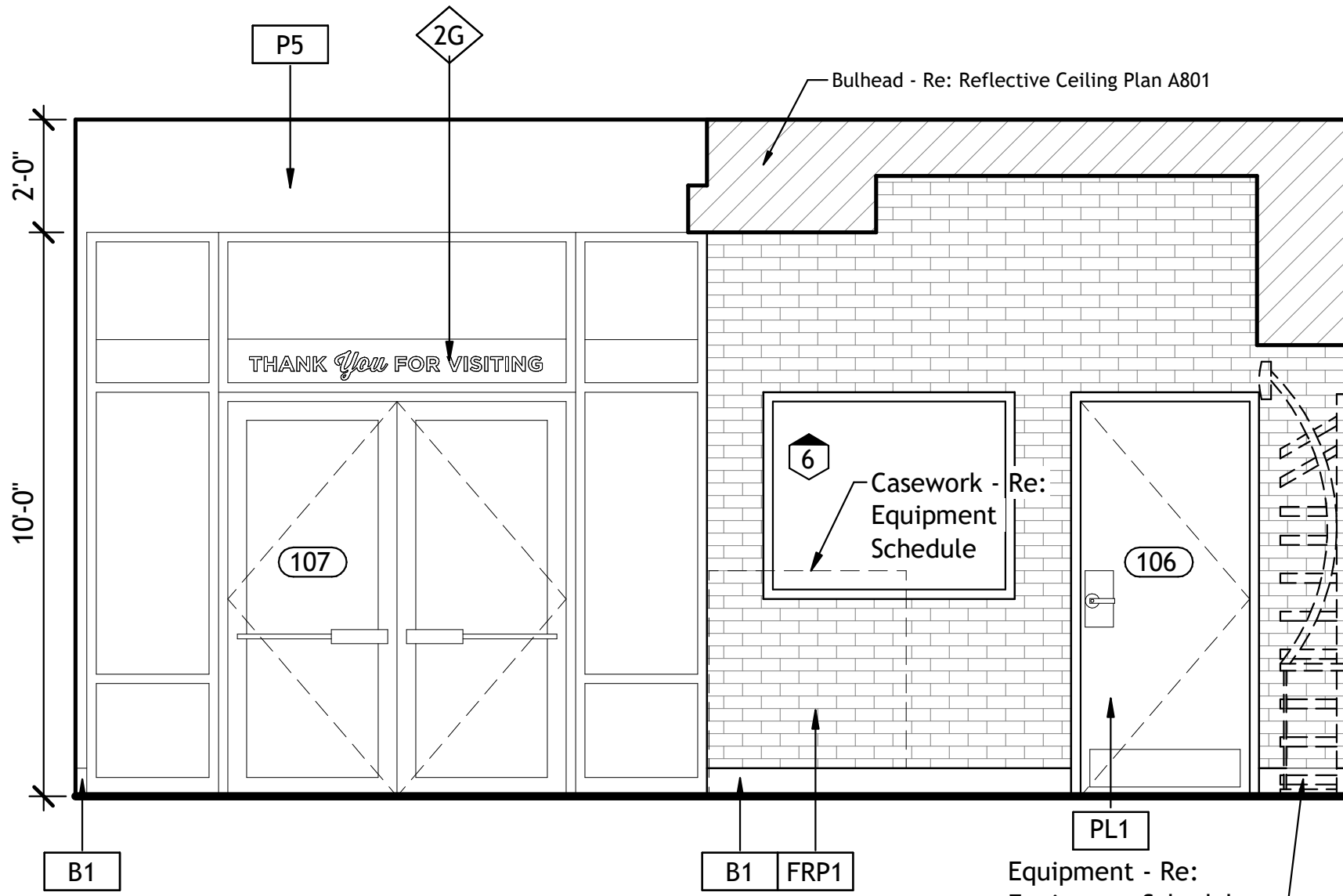
PROJECT NO.  
24007  
DRAWING ISSUED DATE:  
10/09/24  
SHEET  
A704





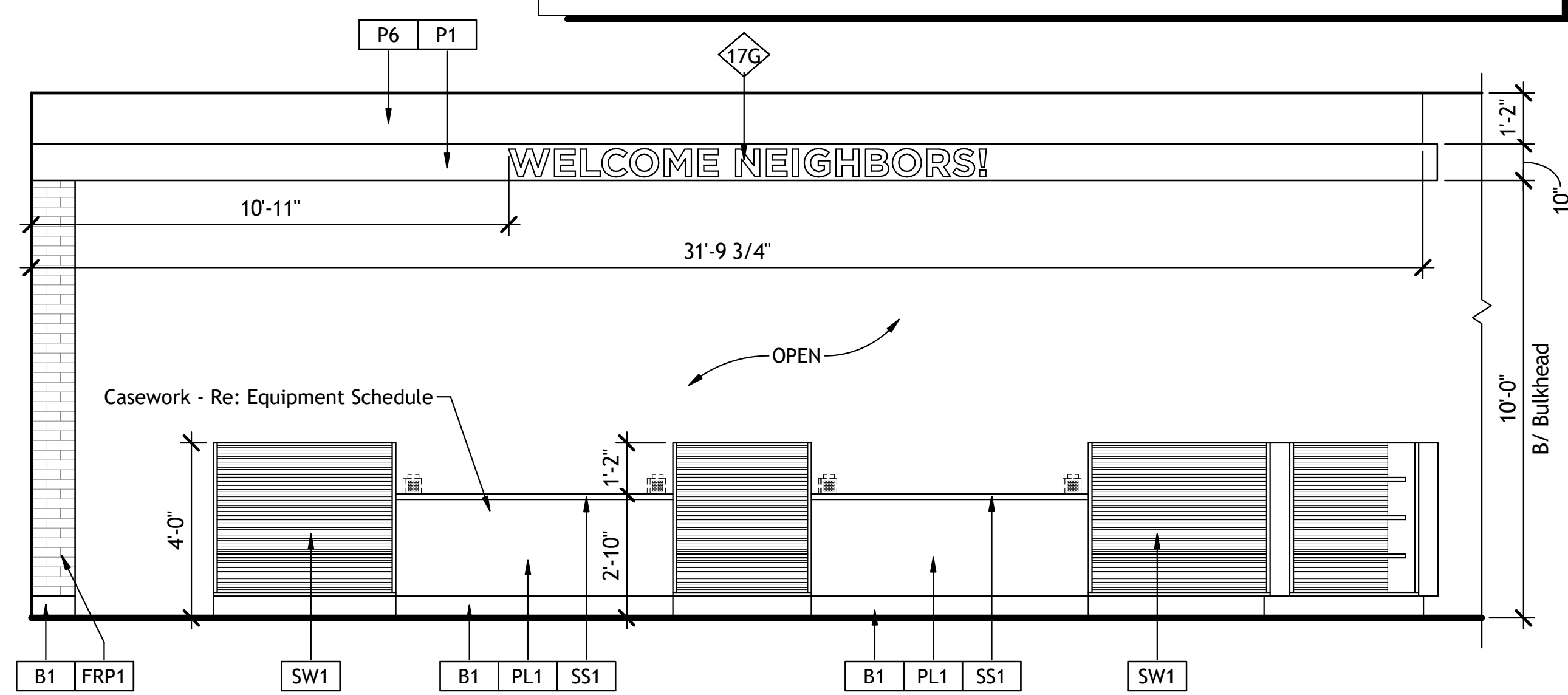
Shower Entrance

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



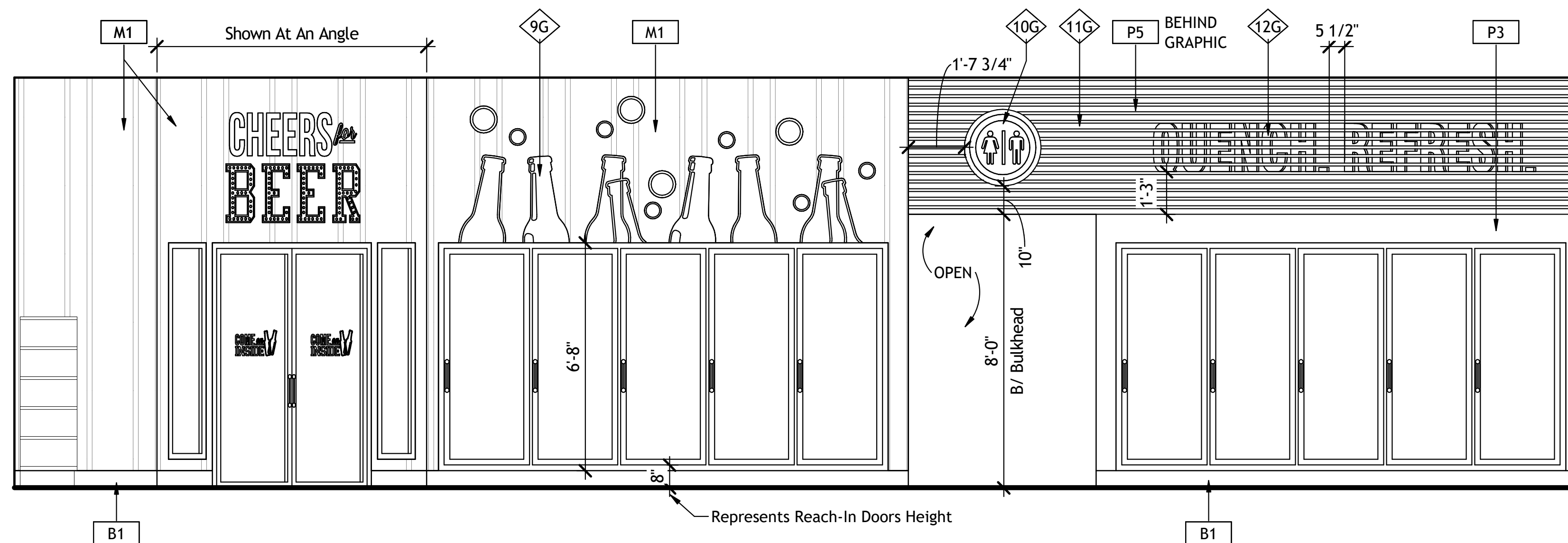
Side Entrance & Cashier (Side)

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



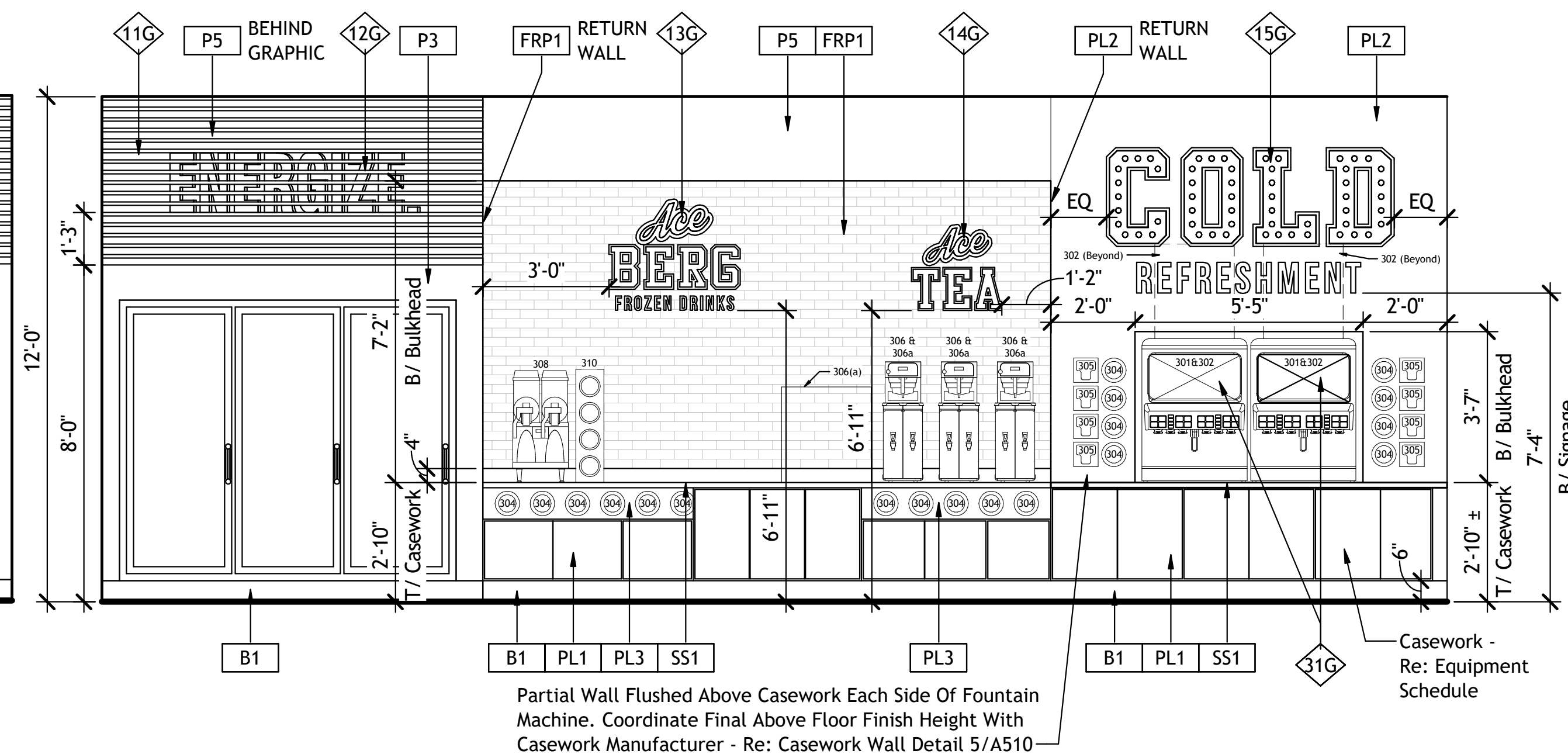
Cashier Counter

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



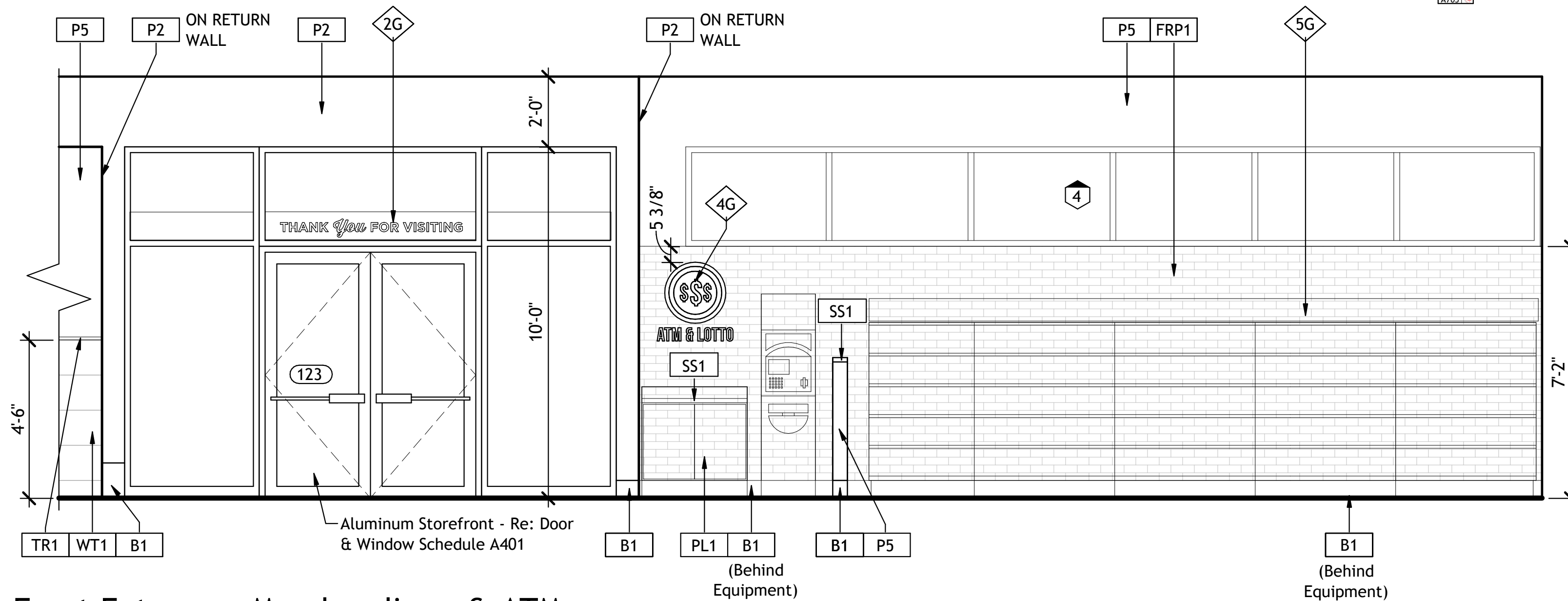
Beer Cave Entrance, Cooler Wall & Restroom Entrance

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



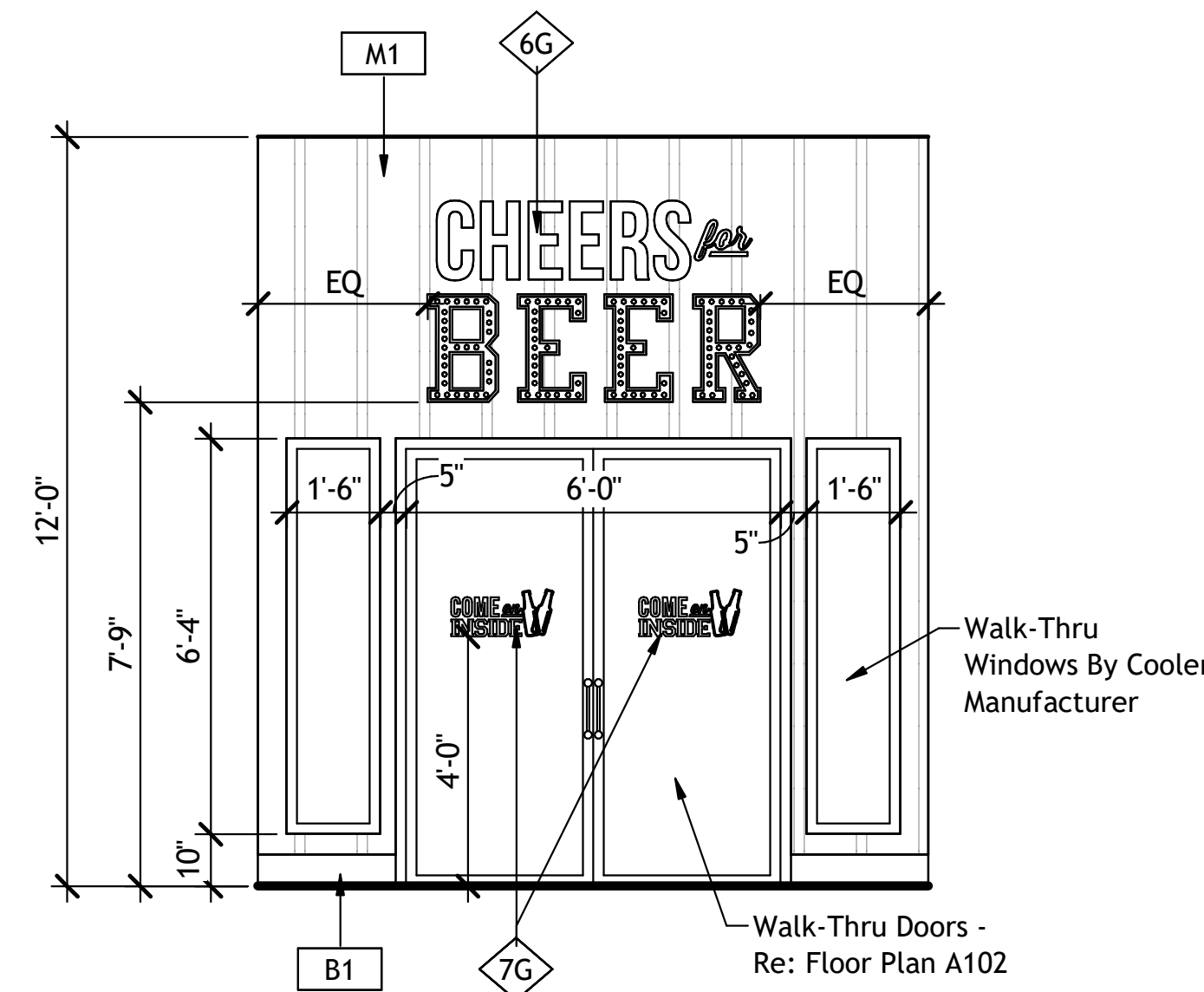
Coolers & Fountain Drinks Counter

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



Front Entrance, Merchandisers & ATM

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



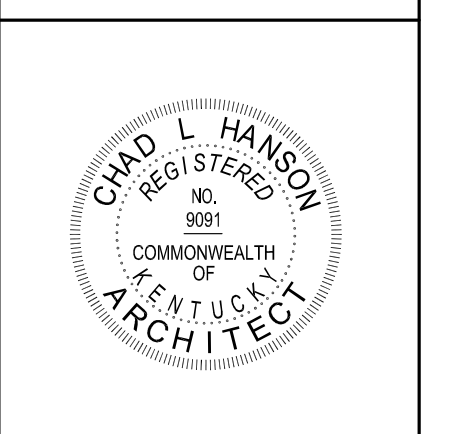
Beer Cave Entrance

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

Refer A702 Interior Elevation General Notes & Legend

NO.	DESCRIPTION	DATE	APP.
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Construction Documents



Acee's Truck Stop  
Fulton, Kentucky

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FIELD	FIELD BOOK
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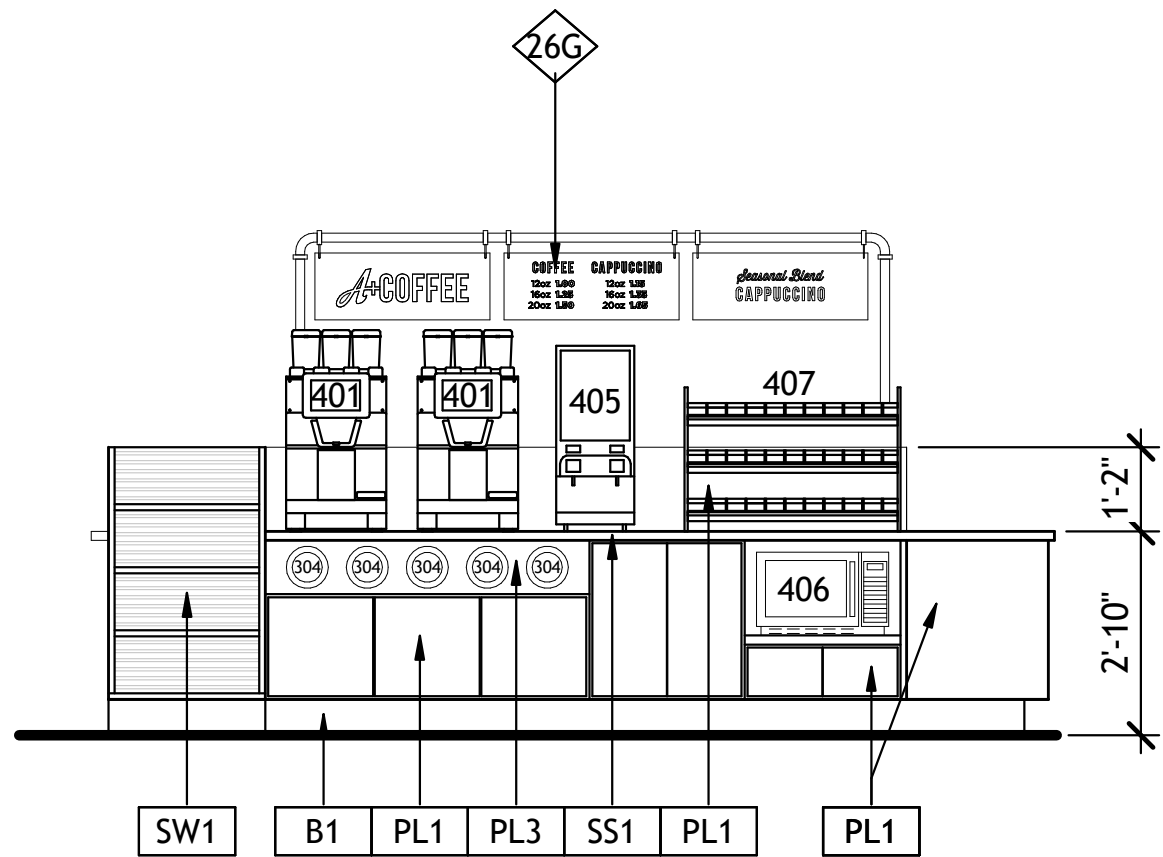
SHEET TITLE  
Interior Elevations

PROJECT NO.  
24007  
DRAWING ISSUED DATE:  
10/09/24  
SHEET

A705

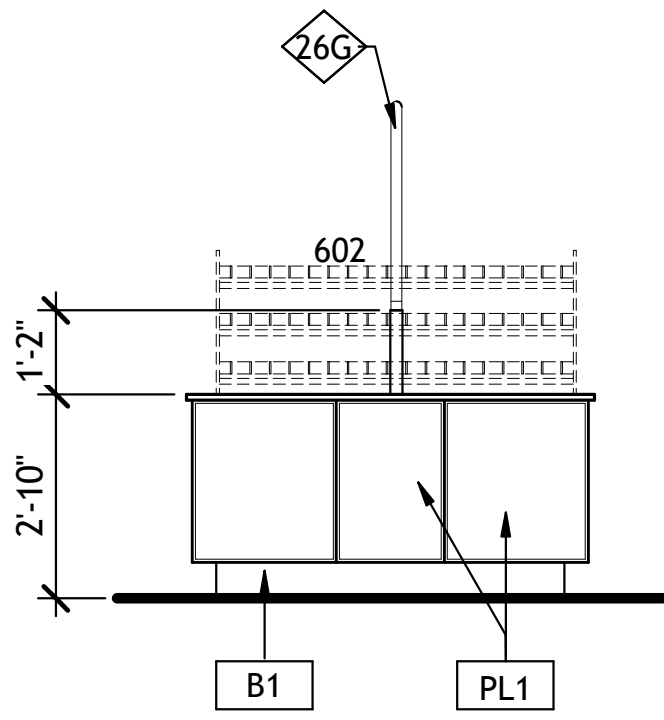


Refer A702 Interior Elevation General Notes & Legend



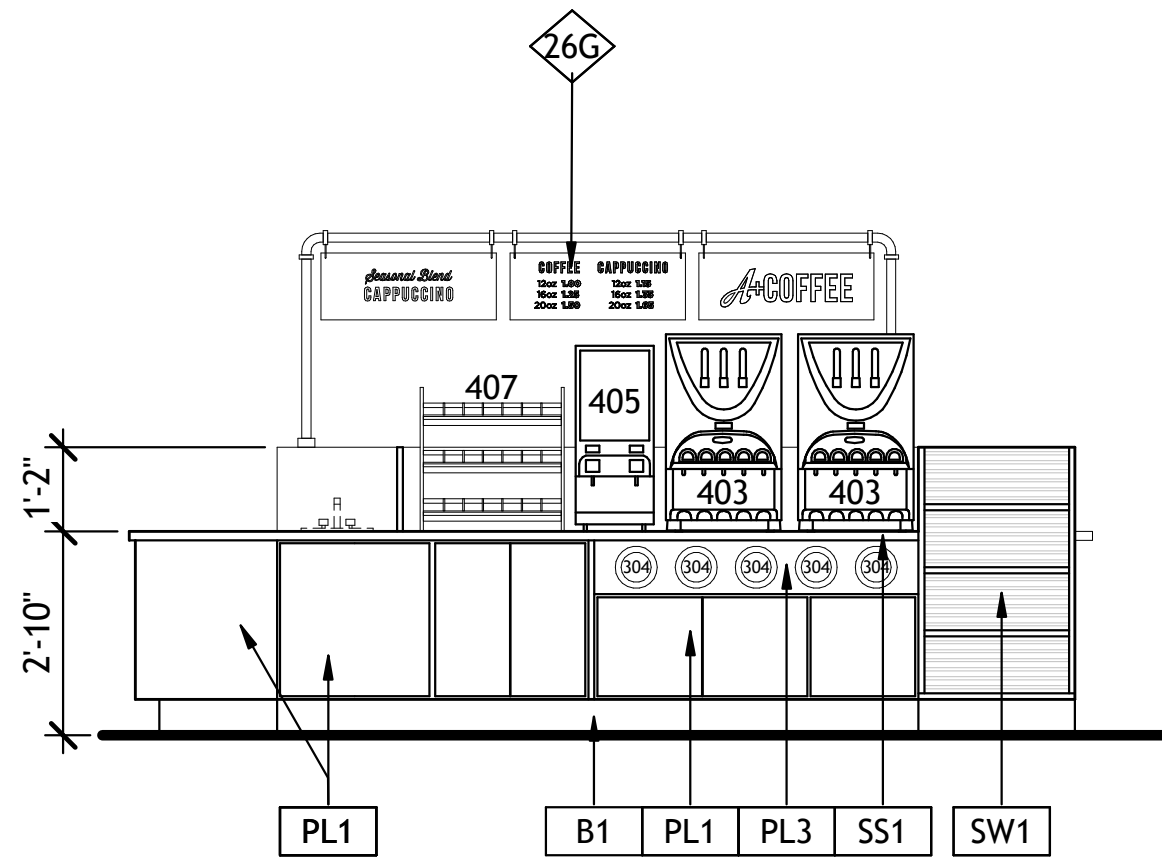
Coffee Island

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



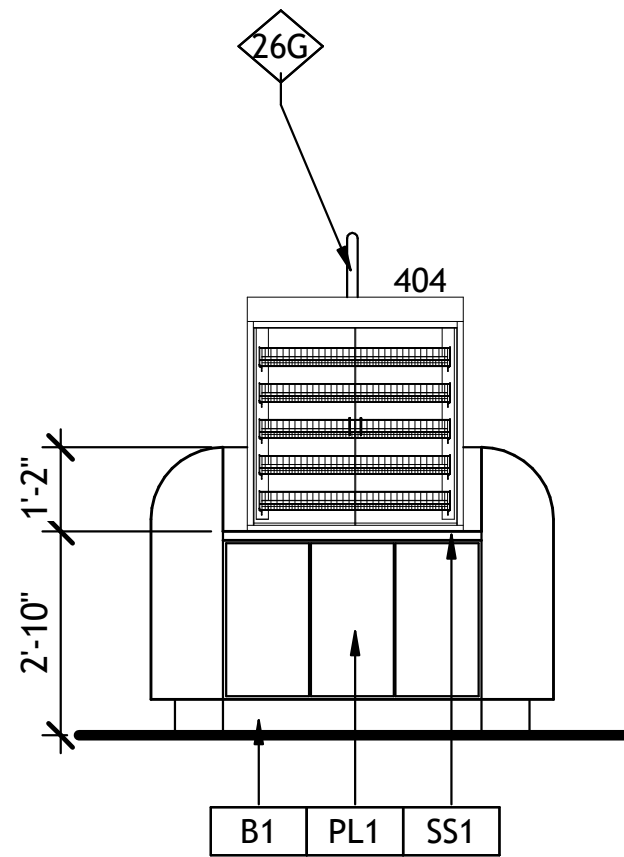
Coffee Island

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



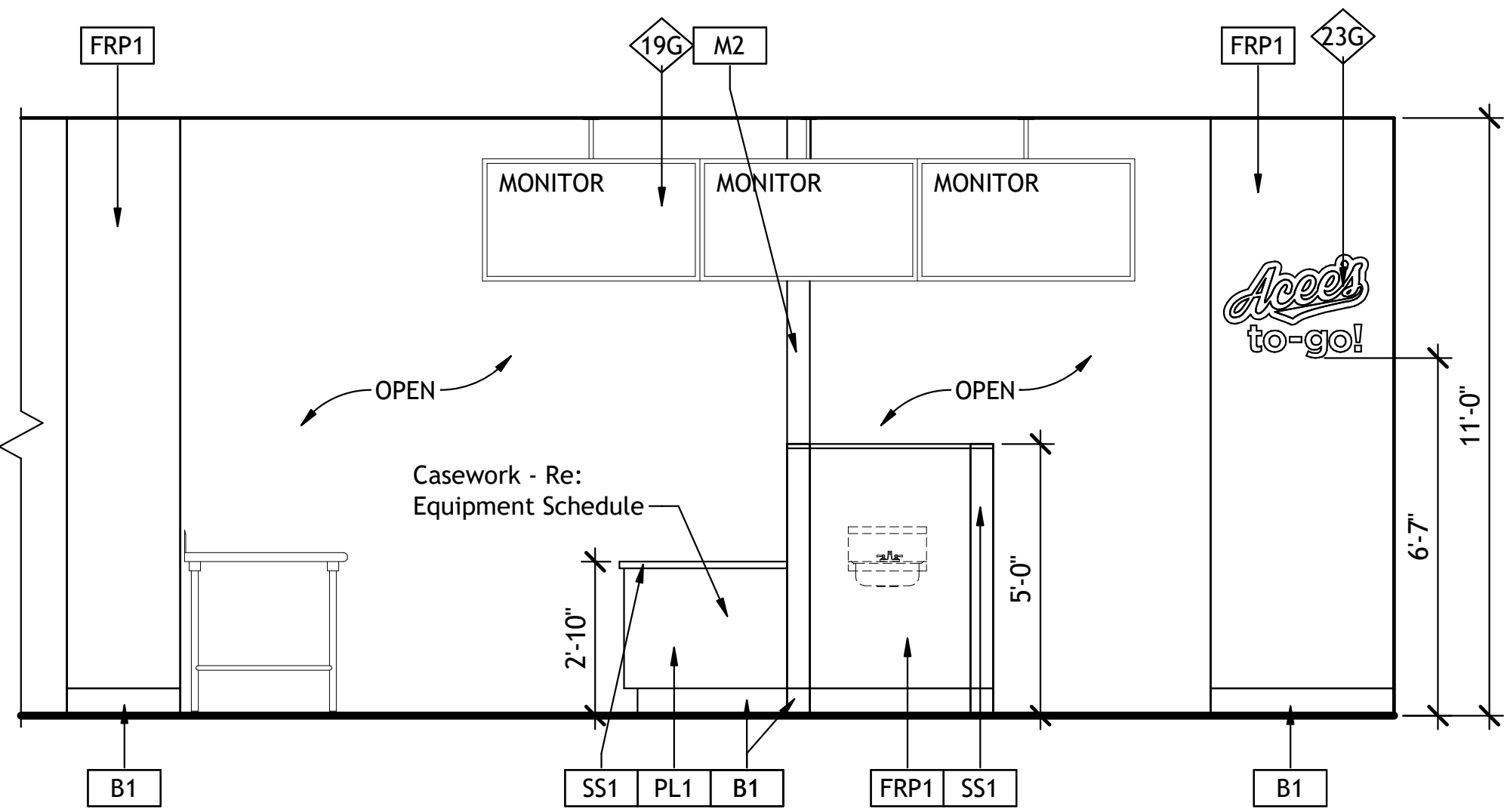
Coffee Island

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



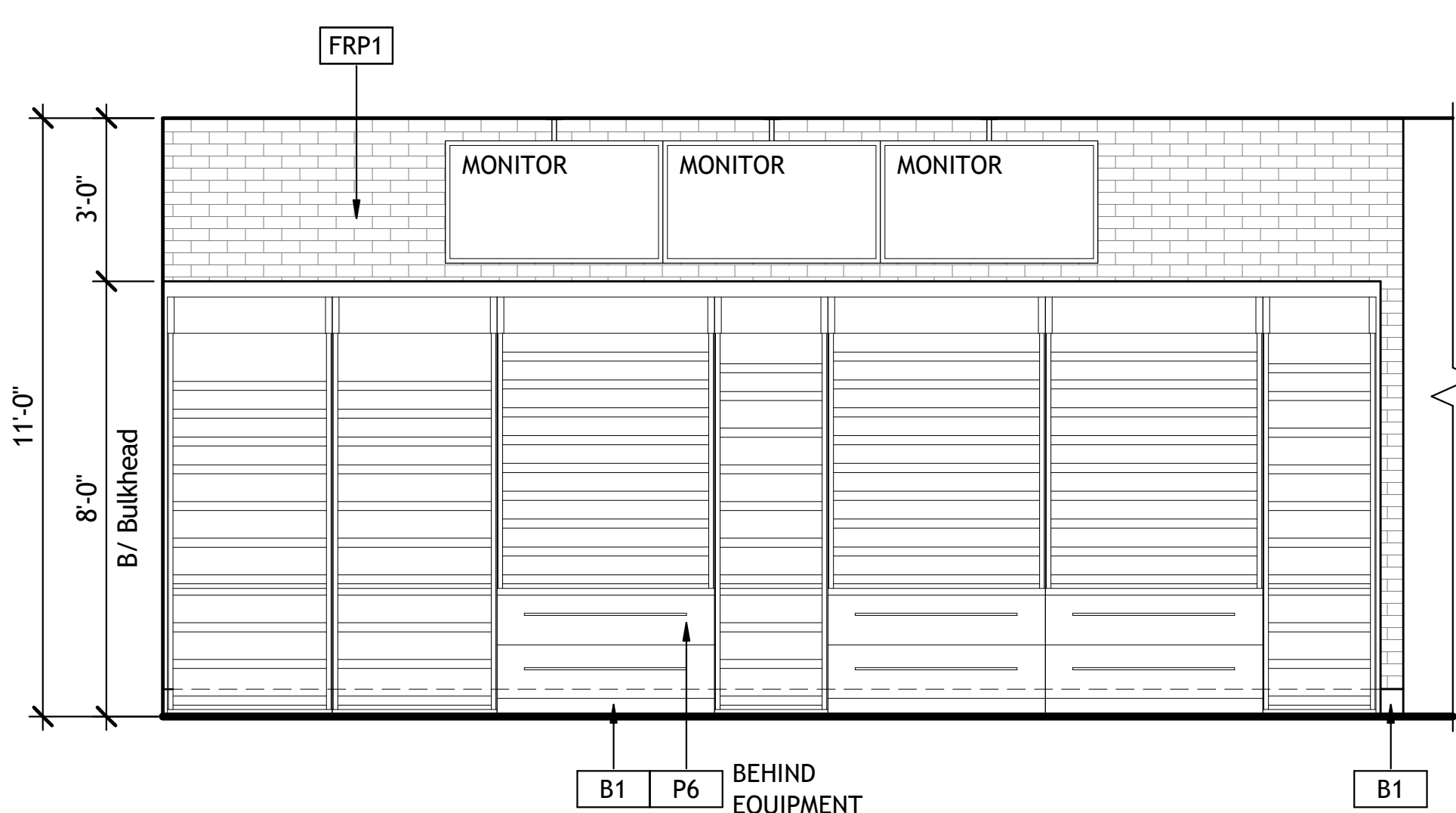
Coffee Island

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



Behind Food Counter

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



Behind Cashier

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



## Finish Symbols

- Gypsum Board
- Lay-In Ceiling Grid
- Insulated Panel By Cooler & Freezer Manufacturer
- Wall

## Key

- Supply Vent
- Return Vent
- 24" x 24" Light Fixture
- Mini Split
- LED Enclosed Light Strip
- LED Wall Pack
- Can Downlight - Re: MEP
- Ceiling Mounted Light
- Exit Sign - Wall Mounted With Emergency Light
- Exit Sign - Wall Mounted
- Exit Sign - Ceiling Mounted

Note: See Cover G101 For Additional Symbol Information

## Keyed Notes:

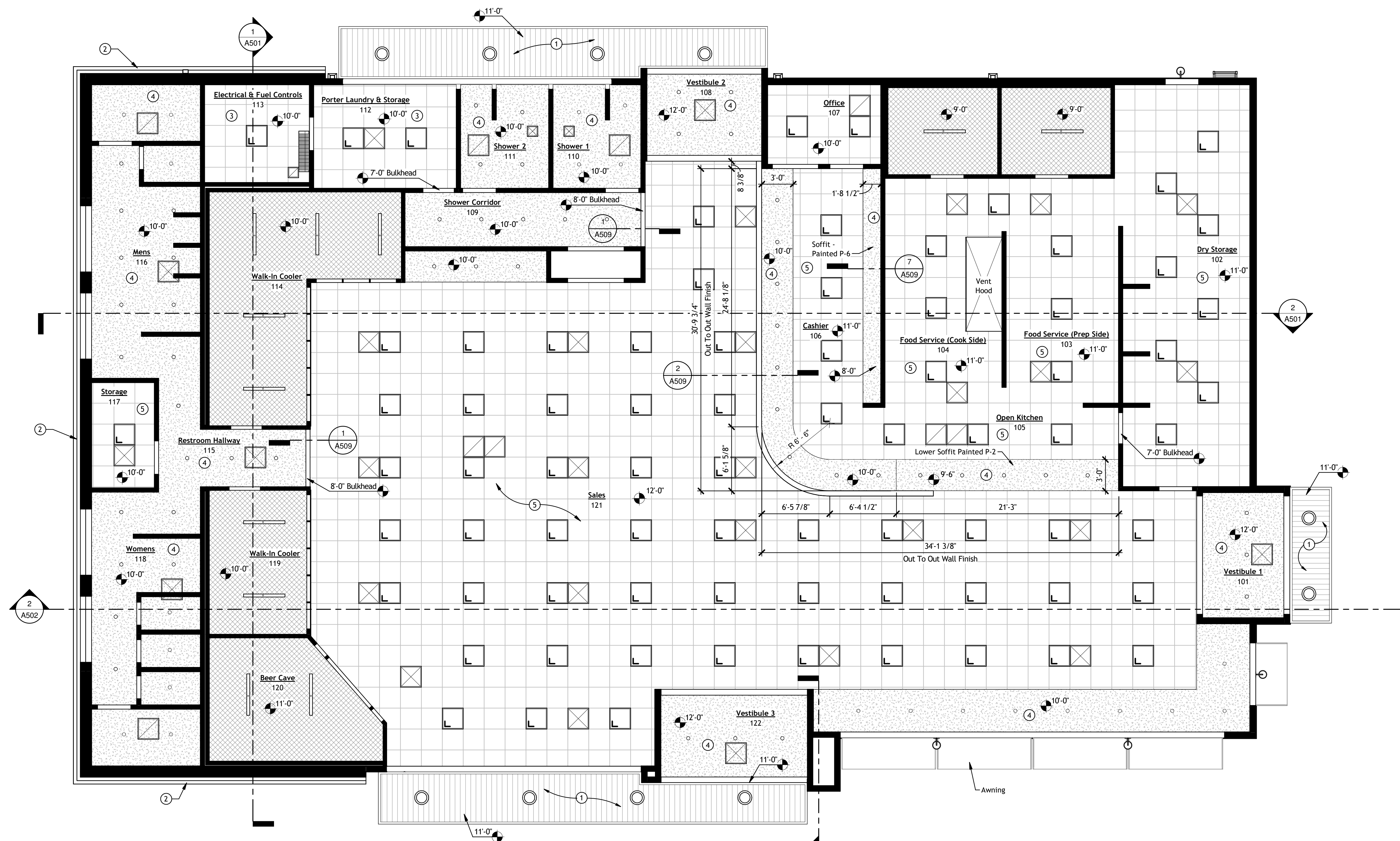
Applies To Reflective Ceiling Plan

- Canopy 11'-0" AFF - Re: Roof Plan A301
- Arched Parapet Downlight - Re: MEP
- Lay-In Ceiling Tile [ACT-1] - 24"x24" Ultima Lay-In Ceiling Tiles, White Grid And White Tile By Armstrong - Re: Specs.
- Gypsum Board [GYP-1] - Gypsum Board Ceiling; Finish: Painted P-1, Typical - Re: Room Finish Schedule A701
- Lay-In Ceiling Tile [ACT-2] - 24" x 24" Clean Room VL Ceiling Tiles, White Grid And White Tile By Armstrong - Re: Specs
- Gypsum Board [GYP-1] - Gypsum Board Ceiling; Finish: Painted P-2 - Re: Room Finish Schedule A701

## General Notes:

Applies To Reflective Ceiling Plan

- Heights are from top of floor to underside of the finished ceiling.
- Coordinate Architectural and MEP sheets for appropriate fixture arrangements & ductwork sizing.
- Mechanical Equipment - Re: MEP Sheets
- Ceiling Finish - Re: Room Finish Schedule
- Coordinate all interior paint finishes with Interior Finish Schedule A706.



Reflective Ceiling Plan  
SCALE: 3/16" = 1'-0"

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REVISION HISTORY			
NO.	DESCRIPTION	DATE	APP.
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Acee's Truck Stop  
Fulton, Kentucky

Non-Reduced Sheet Size: 24" x 36"  
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.

DESIGNED	DRAWN
MG	MG
FIELD	FIELD BOOK
CHECKED	CHECK DATE

SHEET TITLE

Reflective Ceiling Plan

PROJECT NO.  
24007  
DRAWING ISSUED DATE:  
10/09/24  
SHEET

A801



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4046 EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	MODEL	QTY	REMARKS	Responsability		
						OPOI	OPCI	CPCI
REFRIGERATION								
101	WALK-IN COOLER	KPS GLOBAL OR EQUAL	-	1	4" POLYURETHANE FILLED - 10' CEILING HEIGHT			
102	WALK-IN COOLER CONDENSING UNIT	RUSSELL OR EQUAL	-	3	REMOTE REFRIGERATION TO ROOFTOP MOUNTED RACK			
103	WALK-IN COOLER COIL FAN	RUSSELL OR EQUAL	-	3	FINAL LOCATION OF FAN AND SYSTEM TO BE DONE BY REFRIGERATION COMPANY			
104	NORMAL TEMP REACH-IN COOLER DOORS	ANTHONY	#INFINITY 090	8	30" x 75" W/ESP SYSTEM; BLACK DOORS, FRAMES, POSTS & SHELVES.			
105	WALK-IN COOLER SLIDE DOOR	FRANK DOORS	#EFD-SHWS	1	MANUAL COOLER SLIDE DOOR WITH TRACK HOOD AND FLOOR GUIDE			
106	WALK-IN COOLER	KPS GLOBAL OR EQUAL	-	1	4" POLYURETHANE FILLED - 10' CEILING HEIGHT			
107	WALK-IN COOLER CONDENSING UNIT	RUSSELL OR EQUAL	-	2	REMOTE REFRIGERATION TO ROOFTOP MOUNTED RACK			
108	WALK-IN COOLER COIL FAN	RUSSELL OR EQUAL	-	2	FINAL LOCATION OF FAN AND SYSTEM TO BE DONE BY REFRIGERATION COMPANY			
109	NORMAL TEMP REACH-IN COOLER DOORS	ANTHONY	#INFINITY 090	5	30" x 75" W/ESP SYSTEM; BLACK DOORS, FRAMES, POSTS & SHELVES.			
110	WALK-IN COOLER SLIDE DOOR	FRANK DOORS	#EFD-SHWS	1	MANUAL COOLER SLIDE DOOR WITH TRACK HOOD AND FLOOR GUIDE			
111	BEER CAVE	KPS GLOBAL OR EQUAL	-	1	4" POLYURETHANE FILLED - 11' CEILING HEIGHT			
112	BEER CAVE CONDENSING UNIT	RUSSELL OR EQUAL	-	1	REMOTE REFRIGERATION TO ROOFTOP MOUNTED RACK			
113	BEER CAVE COIL FAN	RUSSELL OR EQUAL	-	2	LOW PROFILE, LOW VELOCITY; FINAL LOCATION OF FAN AND SYSTEM TO BE DONE BY REFRIGERATION...			
114	BEER CAVE PASS THRU DOORS	ANTHONY	#HD BEER CAVE DOORS	2	36" x 81" W/LD SYSTEM; BLACK DOORS & FRAMES			
115	STEP-IN FREEZER	KPS GLOBAL OR EQUAL	-	1	4" POLYURETHANE FILLED - 10' CEILING HEIGHT , 4" RECESSED FLOOR			
116	STEP-IN FREEZER CONDENSING UNIT	RUSSELL OR EQUAL	-	1	REMOTE REFRIGERATION TO ROOFTOP MOUNTED RACK			
117	STEP-IN FREEZER COIL FAN	RUSSELL OR EQUAL	-	1	FINAL LOCATION OF FAN AND SYSTEM TO BE DONE BY REFRIGERATION COMPANY			
118	STEP-IN COOLER	KPS GLOBAL OR EQUAL	-	1	4" POLYURETHANE FILLED - 10' CEILING HEIGHT			
119	STEP-IN COOLER CONDENSING UNIT	RUSSELL OR EQUAL	-	1	REMOTE REFRIGERATION TO ROOFTOP MOUNTED RACK			
120	STEP-IN COOLER COIL FAN	RUSSELL OR EQUAL	-	1	FINAL LOCATION OF FAN AND SYSTEM TO BE DONE BY REFRIGERATION COMPANY			
121	REFRIGERATED ISLAND	FEDERAL INDUSTRIES	#IMSS845C-2 (2 Level)	1	BLACK INTERIOR AND EXTERIOR; PROVIDE DEDICATED CIRCUITS FOR OPEN CASE AND REMOTE REFRIGERATION; FINAL ENGINEERING BY OTHERS			
122	ICE CREAM MERCHANDISER	MASTER-BILT	#MSC-49AN	1	-			
122A	ICE CREAM MERCHANDISER	Dip N Dots	EL-21	1	Dip N Dots freezer provider by vendor			
124	ICE MERCHANDISER - OUTDOOR	LEER INC.	#MODEL 60	2	AUTO DEFROST			
CASHIER AREA								
201	CASH REGISTER / GAS CONSOLE	RDS/NCR		3	CASH DRAWER, RECEIPT PRINTER, PINPAD, SCANNER, LED DISPLAY, MONITOR, CPU, PREPAID CARD TERMINAL AND MISC. BY OWNER.			
201 (a)	POS-FUEL CONTROLLER May not be located in cashier area. Ask RDS/NCR Tech support.							
202	SELF CHECK-OUT	RDS/NCR		2	RECEIPT PRINTER, PINPAD, SCANNER, AND MISC. BY OWNER.			
203	CIGARETTE DISPLAY	ROYSTON	ROYSTON	7	VARIOUS SIZES			
204	UNDER COUNTER SAFE (Generic 2 door Safe) See hyperlink	C-store-1	Item# 13-0080	1	Electrical for possible future different safe			
205	LOTTO	-	-	1	BY LOCAL LOTTO COMMISSION			
206	ORDERING KIOSK	RDS/NCR		2	RECEIPT PRINTER, PINPAD, SCANNER, AND MISC. BY OWNER.			
207	MENU BOARDS / TV'S	55" Monitors	-	6	PROVIDED BY OWNER			
FOUNTAIN & FROZEN PROGRAMS								
300	Water filtration system (added 6/17/24)	Pentair			A water filtration system is needed to filter all water going to the fountain machine and ice makers.			
301	Fountain Machine	Lancer	Lancer Self-Serve Dispenser lbd 30 (10 Valve) Cube, 85-4541H-111-GB	2				
302	ICE MAKER	SCOTSMAN	#NS1322R-32	2	NUGGET STYLE ICE; REMOTE REFRIGERATION: FINAL ENGINEERING BY OTHERS			
303	FOUNTAIN ACCESSORIES	FOR (2) SYSTEMS	-	1	FAST FLOW CARBONATORS, BULK CO2, REGULATORS, BIB PUMPS, BIB RACKS, BUNDLE TUBING & INSTALL KITS			
304	CUP DISPENSER	DISPENSE-RITE	#STL	-	IN-WALL & CABINET			
305	LID DISPENSER	VOLLRATH	#LS01	-	IN-WALL & CABINET			
306	TEA BREWER	BUNN	#ITB	2	-			
306(a)	TEA BUBBLER	CRATH CO	Model D35-3 (3 bowl)	1				
308	NON CARBONATED FROZEN BEVERAGE	BUNN	#ULTRA II BLACK	2				
310	CUP / DOME LID DISPENSER	DISPENSE-RITE	BFL-C-3BT	1	-			
COFFEE PROGRAMS								
401	BEAN TO CUP COFFEE BREWER/DISPENSER	Schaerer	040381-00071EUS	2	BLACK FINISH			
403	CAPPUCCINO DISPENSER	BUNN	#IMIX-5	1	-			
404	PASTRY CASE 2 INCHES WIDER THAN PLANNED	ROYSTON	#ESL					
405	CREAMER	INTERNATIONAL DELIGHT	#Z15	2	-			
406	MICROWAVE	AMANA	#AMC432ZGS	1				
407	COUNTERTOP LID RACK	ROYSTON, MILLWORK OR EQUAL	#LID RACK	2	-			
PLUMBING & RESTROOM FIXTURES								
501	RESTROOM SINK	BRADLEY	#LVQD2	2	PROVIDE WITH WASHBAR			
502	FLOOR MOUNTED TOILET	TOTO	#CT708U(G)	6	-			
503	FULL STALL URINAL	KOHLER	#BRANH4M	3				
504	BABY CHANGING STATION	KOALA CARE	#KB110-SSRE	2	STAINLESS STEEL			
505	PAPER TOWEL DISPENSER & WASTE RECEPTACLE	BOBRICK	#B-3974	2	(4) D-SIZED BATTERIES REQUIRED FOR OPERATION OR 6 VOLT AC TO DC SWITCHING			
506	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK	#B-35139	4	STAINLESS STEEL			
507	BATH TISSUE DISPENSER surface mounted	Will be provided by owner		6	STAINLESS STEEL			
508	MOP SINK	ADVANCE	#9-OP-28	1	WITH K-240 FAUCET			
509	WALL-MOUNTED HAND SINK	ADVANCE TABCO	#7-PS-20	1	-			
510	3-COMPARTMENT SINK	ADVANCE TABCO	#94-3-54-18RL	1	WITH T&S BRASS B-0156 FAUCET & B-0133 PRE-RINSE			
511	PREP SINK (Right)	ADVANCED TABCO	#94-1-24-24R	1	WITH T&S BRASS B-0156 FAUCET & B-0133 PRE-RINSE			
511 (a)	PREP SINK (Left)	ADVANCED TABCO	#94-1-24-24L	1	WITH T&S BRASS B-0156 FAUCET & B-0133 PRE-RINSE			
512	CENTRAL PRESSURE CLEANING SYSTEM	SPRAYMASTER TECH	#POWER CLEAN 2.0	1	REQUIRES TWO CIRCUITS; CONSULT WITH PROVIDER ON PAIRING WITH REMOTE SYSTEMS AND OPTIONAL ACCESSORIES			
513	CLOTHES HOOK	BOBRICK	#B-233	2	-			
515	FAUCET	KOHLER	#CORALAIS	2	-			
516	UNDER MOUNT SINK	AMERICAN STANARDS	#STUDIO	2	-			
517	DROP-IN HAND SINK	ADVANCE TABCO	#DI-1-10	1	-			
518	REMOTE LOCATION FOR CENTEAL CLEANING SYSTEM	SPRAYMASTER TECH	#FLUSH MOUNT REMOTE	3	-			

Responsibility Notes:

- OPOI - Item to be provided and installed by the owner (Owner Provided, Owner Installed).  
OPCI - Item to be provided by the owner and installed by the contractor (Owner Provided, Contractor Installed)  
CPCI - Item to be provided and installed by the contractor (Contractor Provided, Contractor Installed)

Camera / Security System - equipment to be provided and installed by the Owner/Vendor, contractor to provide conduits/conductors to the locations as shown on the plans and coordinate final locations with owner/Vendor.

Contractor to provide electrical and plumbing for all equipment; contractor to set/install, provide line sets, hookup, provide gas and charge all refrigeration units, and startup units under supervision of equipment supplier; contractor to provide hard piped drain lines for all walk in coolers/freezers (to floor drains in coolers and to nearest floor drain for freezers, coordinate all locations with owner); contractor to provide dumpster for equipment supplier waste items and packaging.

Contractor to provide and install all restroom partitions.

Equipment Schedule Notes

- OPOI = Owner Provided Owner Install  
OPCI = Owner Provided Contractor Install  
CPCI = Contractor Provided Contractor Install

Any items shown on the drawings but not listed in this schedule shall be by the contractor.

ITEM	DESCRIPTION	MANUFACTURER	MODEL	QTY	REMARKS	Responsability		
						OPOI	OPCI	CPCI
SALES FLOOR								
601	COUNTERS	See change for bakery case size on end of coffee bar		-	FURNISHED BY OWNER - 34" COUNTER TOP HEIGHT UNLESS NOTED OTHERWISE - REFERENCE INTERIORS FOR FINISHES			
602	GONDOLA SHELIVING ( 5.5FT)	ROYSTON, MILLWORK OR EQUAL	-	-	GONDOLA AND WALL SHELIVING, PER PLANS - BLACK FINISH			
603	BEER CAVE HEAVY DUTY SHELIVING	PFI OR EQUAL	#RETAIL SHELIVING	-	PER PLANS			
604	ATM - provided by owner	TRITON	#ARGO7	1	-			
605	LOTTO STAND - provided by owner(no utilites needed)	-	-	1	BY LOCAL LOTTO COMMISSION			
606	24"x32" TABLE	TARRISON CONTRACT	CORE LAMINATE TOPS WITH X-STYLE BASE	20	FINISH: WEATHERED REP: ANDREA HUBBARD - 214.814.4105			
607	CHAIRS (VERIFY CHAIR HAS BACK)	TARRISON CONTRACT	KATE SIDE CHAIR	26	FINISH: BLACK & SADDLE REP: ANDREA HUBBARD - 214.814.4105			
608	72" BANQUETTE	CROW WORKS OR EQUAL	#MAYFIELD BANQUETTE	6	FINISH: BARLEY WHITE OAK FINISH & GUNMETAL METAL			
FOOD SERVICE								
701	36" SANDWICH TABLE	AVANTCO	#SS-PT-36-HC ( With Wheels)	1	-			
702	BURGER WARMER	Nemco Hot Hold 6070-TT Dry / Moist Food Warmer for (4) 2 1/2" Deep Pans - 120V, 900W	6070-TT	1	-			
703	STAINELSS STEEL TABLE	Advance Tabco SAG-364 36" x 48" 16 Gauge Stainless Steel Commercial Work Table with Undershelf	SAG-364 36" x 48 ( With wheels)	2	36" x 48" (NEEDS UNDER TABLE)			
704	SPEED BUN TOASTER	Antunes VCTM-2-9210960 Vertical Toaster - Variable Speed Motor & Digital Controls, 208-230v/1ph	VCTM-2-9210960	1	-			
705	CONVEYOR OVEN	TURBOCHEF	#HCS-1618	1	-			
406(a)	MICROWAVE (UNDER 705)	Amana RCS10TS Stackable Commercial Microwave with Push Button Controls - 120V, 1000W	# RCS10TS	1	UNDER TURBOCHEF CONVEYOR OVEN			
706	COOKER WARMER ON CART	Galaxy GWC50E 12" x 20" Full Size Electric Countertop Food Warmer - 120V, 1500W	GWC50E	1	-			
706(a)	Roll Cart	Choice Medium Black 2-Shelf Utility Cart - 34 1/2" x 16 1/2" x 32 1/2"	#475UCSM2BHCH	1				
707	60" REFRIGERATED SANDWICH TABLE	AVANTCO	#APT-60-HC 60	1	-			
708	SHEET PAN RACK	Provided by owner		1	-			
709	VENT HOOD	CAPTIVE AIRE		1	42 1/4" x 96"			
710	36" GRIDDLE	MoTak MGR36-T 36" Gas Griddle w/ Thermostatic Controls - 3/4" Steel Plate, Convertible	MGR36-T36"	1	-			
711	36" REFRIGERATED WORKTOP	TRUE MFG.	TRCB-36-HC	1	-			
712	BREAD & BATTER TABLE	Giles Breading and Batter Table	BBT	1	-			
713	FRYER	Giles GBF-80/80G Gas Fryer - (2) 80 lb Vat, Floor Model, Natural Gas	GBF-80/80G	2	-			
714	48" FREEZER WORKTOP	TRUE MFG.	#TWT-48F-HC	1	-			
715	FRY HOLDERS	HATCO	#MPWS-45	1	-			
716	SLICER	Hobart	HS9-1B	1	-			
717	STAINLESS STEEL TABLE	ADVANCE TABCO	FLG-365 36" x 60" 14 Gauge Stainless Steel Commercial Work Table with Undershelf and 1 1/2" Backsplash	1	36" x 60"			
718	DISHWASHER Provided by			1	-			
719	ICE CREAM MACHINE	Electro Freeze	SLX400E	1	-			
720	27" MAKE TABLE	TRUE MFG.	#TSSU-27-08-HC	1	-			
721	BLENDER	Electro Freeze	HDM-75A	1	-			
722	STAINLESS STEEL TABLE	Regency	24" x 24" 14 Gauge Stainless Steel Commercial Work Table with 4" Backsplash and Undershelf	1	24" x 24"			
723	HEATED MECHANDISER (changed from a 30" to a 36")	HATCO	#HZMH-36D	1	-			
BACK OF HOUSE AND MISCELLANEOUS								
800	B.O.S.S. Oil filter system (Provided by oil vendor)	Dar.Pro	190 gal Tank	1				
801	STORAGE RACKS	CAMBRO	-	-	CAMSHELVING® - STARTER UNITS - MOBILE WITH VENTED SHELVES			
802	HIGH DENSITY STORAGE SOLUTIONS	METRO	#QWIK TRAC	-				
803	WALL-MOUNTED SINK SHELIVING( installed by dish area)	METRO	#SWK36-1A1-SR	1	OWNER TO VERIFY ACCESSORIES PRIOR TO ORDERING			
804	ICE STORAGE BIN	Manitowoc	UYF-0140A NEO 26	1	-			
805	FRONT LOAD WASHER	SPEED QUEEN	#FF7010WN	2	-			
806	DRYER	SPEED QUEEN	#DR7004WE	2	-			
807	OUTDOOR SEATING	LANDSCAPE FORMS	#CAROUSEL WITH #SOLSTICE UMBRELLA	5	DINING BACKED TABLE IN LOLL APPLE RED ALTAIR STYLE IN LOLL APPLE RED			
808	PROPANE DISPLAY	USA SAFETY	#CB12302MSAAM	1	-			
901	Trash receptacle for dining area	Plymold	Model 80109DE 24"x24"x48-1/4"	2	Square funnel drop top with tray shelf. Magnetic door			
902	Bulk CO2 tank				Contractor to provide & coordinate required exterior wall penetration with supplier & owner			

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Burlington, Kansas, IA  
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Construction Documents

Acee's Truck Stop  
Fulton, Kentucky

Non-Reduced Sheet Size: 24" x 36" Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.	
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FIELD	AUTHOR
CHECKED	FIELD BOOK
CHECKED	CHECK DATE

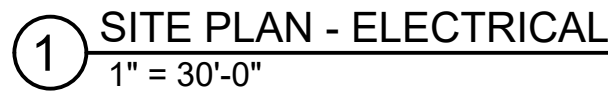
SHEET TITLE

Equipment Schedule

PROJECT NO.  
24007  
DRAWING ISSUED DATE:  
10/09/24  
SHEET

Q102





1. PAD MOUNTED TRANSFORMER BY FULTON ELECTRIC SYSTEM. INSTALL CONCRETE TRANSFORMER PAD. PAD SHALL BE 6" THICK AND LARGE ENOUGH TO LEAVE A MINIMUM OF 10" IN FRONT AND 3" ON THE SIDES AND THE BACK OF THE TRANSFORMER. PROVIDE 5/8" x 10" COPPER GROUND ROD. ALL WORK SHALL BE IN ACCORDANCE WITH FULTON ELECTRIC WRITTEN STANDARDS.
2. PROVIDE ELECTRIC METER PER FULTON ELECTRIC SYSTEM REQUIREMENTS.
3. INSTALL (3) 2" GALVANIZED RIGID STEEL CONDUITS BURIED 48" BELOW GRADE. ALL WORK SHALL BE IN ACCORDANCE WITH FULTON ELECTRIC WRITTEN STANDARDS.
4. INSTALL AN 18" x 24" QUARTZITE HAND HOLE FOR FUTURE ELECTRIC VEHICLE CHARGERS.
5. INSTALL (3) 2" GALVANIZED RIGID STEEL CONDUITS BURIED 48" BELOW GRADE FOR FUTURE ELECTRIC VEHICLE CHARGERS.

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LY & LONG PROPERTIES LLC  
5820 CAIRO ROAD  
PADUCAH, KY 42001

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SHEET TITLE	

# ELECTRICAL SITE PLAN

PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:

SHEET

# E100



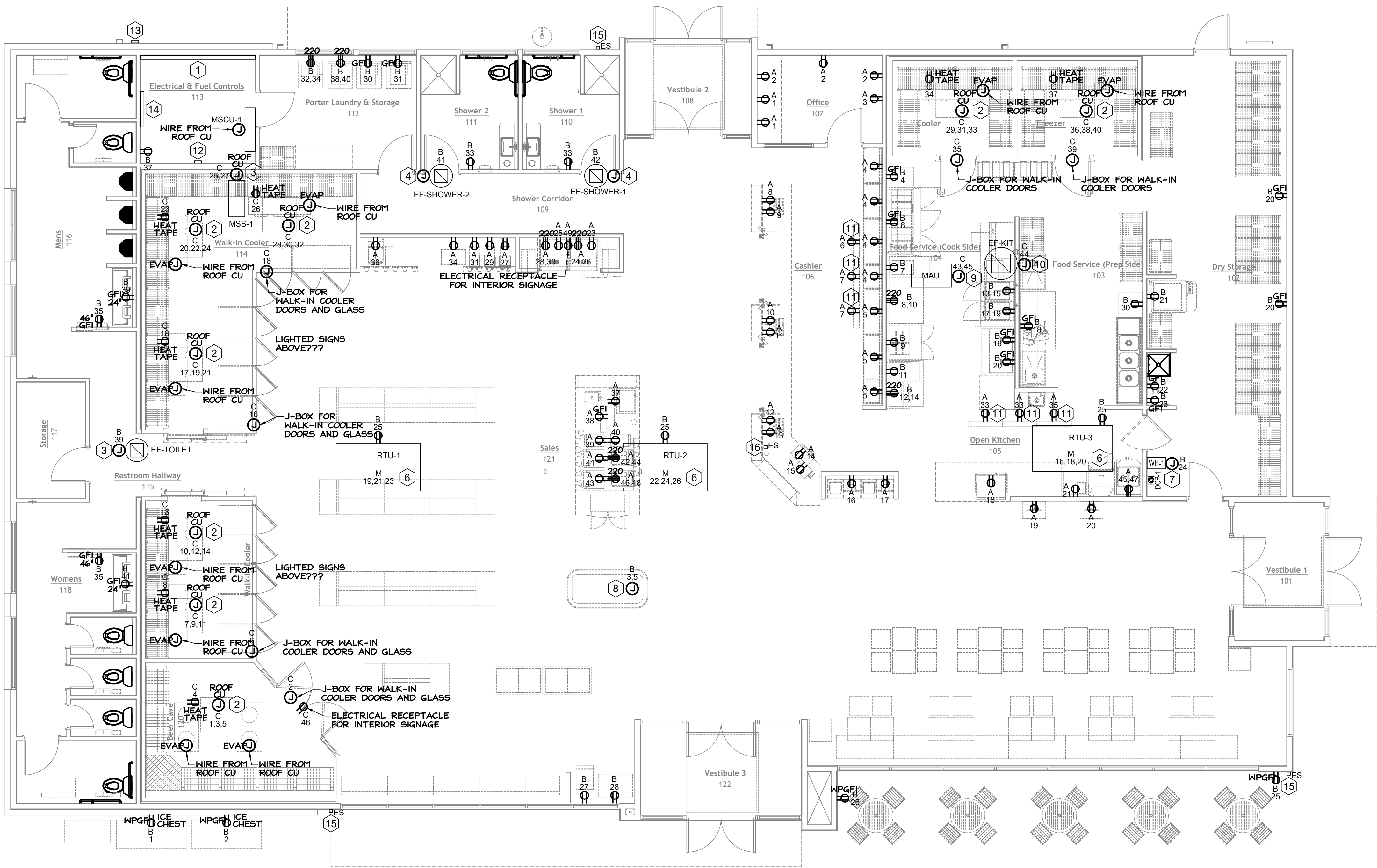
ELECTRICAL SYMBOL LEGEND	
	DUPLEX RECEPTACLE
	GROUND FAULT CIRCUIT INTERRUPTER - DUPLEX
	220V RECEPTACLE
	JUNCTION BOX - HARD WIRED ELECTRICAL CONNECTION

ELECTRICAL GENERAL NOTES:

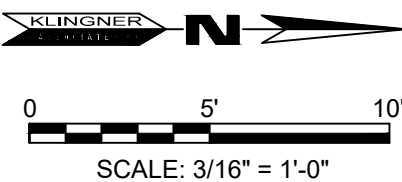
- PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE.
- ALL WIRING SHALL BE #12 AWG COPPER UNLESS SPECIFIED OTHERWISE.
- SWITCHES SHALL BE SPECIFICATION GRADE AND SHALL INCLUDE A GROUNDING LUG. COLOR SHALL BE SELECTED BY THE ENGINEER.
- ALL DEVICES SHALL BE RECESSED AND CONCEALED UNLESS SPECIFIED OTHERWISE.
- PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.
- SEE THE CONVENIENCE STORE EQUIPMENT SCHEDULE ON SHEET Q102.

ELECTRICAL PLAN KEYED (X) NOTES:

- INTERIOR ELECTRICAL PANELS. SEE THE ONE LINE POWER DIAGRAM ON SHEET E301.
- PROVIDE NEMA 3R DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR COOLER/FREEZER CONDENSING UNIT.
- PROVIDE NEMA 3R DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR DUCTLESS SPLIT UNIT.
- PROVIDE DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR EXHAUST FAN.
- NOT USED.
- PROVIDE ELECTRICAL CONNECTIONS FOR ROOFTOP UNIT. WEATHERPROOF SERVICE RECEPTACLE AND DISCONNECTING MEANS PROVIDED WITH ROOFTOP UNIT. PROVIDE SMOKE DETECTOR INSTALLED IN RETURN DUCT TO SHUT DOWN UNIT UPON ACTIVATION.
- PROVIDE ELECTRICAL CONNECTIONS TO WATER HEATER AND CIRCULATION PUMP.
- PROVIDE A SPARE 1" CONDUIT FROM EACH END OF ISLAND TO THE ELECTRICAL PANELS.
- PROVIDE NEMA 3R DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR KITCHEN MAKEUP AIR UNIT. ROUTE WIRING FROM MAU DOWN TO THE HOOD SWITCHES. MAU TO BE INTERLOCKED WITH KITCHEN EXHAUST FAN.
- PROVIDE NEMA 3R DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR KITCHEN EXHAUST FAN. ROUTE WIRING FROM MAU DOWN TO THE HOOD SWITCHES. MAU TO BE INTERLOCKED WITH KITCHEN MAU.
- PROVIDE ELECTRICAL CONNECTIONS FOR MENU BOARD/DISPLAY.
- PROVIDE A 30A/10P LIGHTING CONTACTOR WITH HAND/OFF/AUTO SWITCH. AUTO TO BE CONTROLLED BY PHOTOCCELL.
- INSTALL PHOTOCCELL AS HIGH AS PRACTICAL.
- VEEDER ROOT FUEL CONTROL SYSTEM. COORDINATE AND SUPPLY ALL CONDUITS, CONDUCTORS, CONNECTIONS AND APPURTANCES TO TANKS, DISPENSERS, EMERGENCY FUEL STOPS, AND OTHER EQUIPMENT AS INDICATED ON CIVIL/SITE PLANS AND DETAILS ON C503, C504 AND C505 AND AS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE FUELING SYSTEM.
- VEEDER ROOT EMERGENCY FUEL STOP. PROVIDE CONDUIT AND WIRING AS REQUIRED. COORDINATE LOCATION WITH CIVIL/SITE PLANS AND OWNER.
- VEEDER ROOT EMERGENCY FUEL STOP AT COUNTER. PROVIDE CONDUIT AND WIRING AS REQUIRED. COORDINATE LOCATION WITH OWNER.



1 FLOOR PLAN - ELECTRICAL  
3/16" = 1'-0"



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ACEE'S NEIGHBORHOOD MARKET & DELI  
1000 HOLIDAY INN LANE, FULTON, KY  
GOLIGHTLY & LONG PROPERTIES LLC  
5820 CAIRO ROAD  
PADUCAH, KY 42001

Non-Reduced Sheet Size: 24" x 36"

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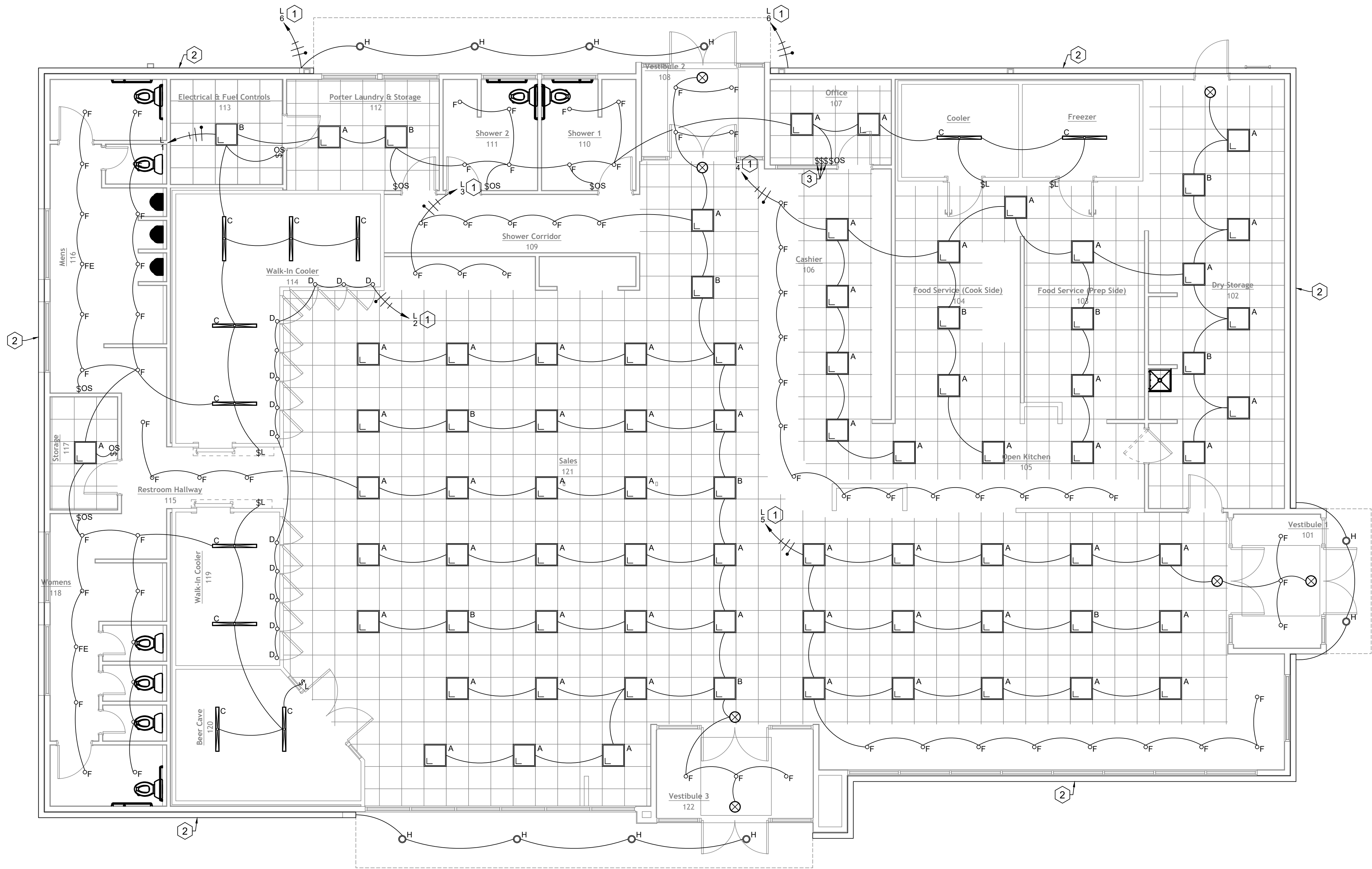
FLOOR PLAN -  
ELECTRICAL

PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:  
11/21/2024

SHEET  
E101

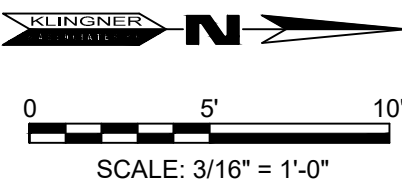


INTERIOR LIGHTING SYMBOL LEGEND	
A.	2'x2' FLAT MAX EDGE LIT LED PANEL LAY-IN FIXTURE BY MAXLITE. #MLFP-22EP3040-V3
B.	2'x2' FLAT MAX EDGE LIT LED PANEL LAY-IN FIXTURE WITH EMERGENCY BY MAXLITE. #MLFP-22EP3040-V3-EM
C.	LED ENCLOSED & GASKETED CEILING MOUNT FIXTURE BY MAXLITE. #LSV4U4540
D.	SINGLE TUBE LED STRIP LIGHT MOUNTED ON EACH SIDE OF EACH DOOR. LED STRIP SUPPLIED WITH WALK-IN COOLER AND TO BE CONNECTED BY GENERAL CONTRACTOR.
E.	EXIT AND EMERGENCY LIGHTING TO BE INSTALLED PER LOCAL CODES.
F.	CAN DOWNLIGHT BY LSI LIGHTING. #LCD4-LED-24L-UNV-DIM-FL
G.	CONTINUOUS LED PERMIMETER BY LSI LIGHTING. #ARCH-118-LED-TW-SVR-MULTI
H.	CAN DOWNLIGHT BY CREEI LIGHTING. #59111-AA-T-19C-840-M
⊠	SWITCH
⊠ L	LIGHTED SWITCH



- LIGHTING PLAN KEYED (X) NOTES:**
1. ROUTE CIRCUIT THROUGH THE BUILDING LIGHT SWITCHES LOCATED AS SHOWN.
  2. CONTINUOUS LED PARAPET LIGHT FIXTURE, LIGHT FIXTURE TYPE "G".
  3. INSTALL (3) SINGLE POLE LIGHT SWITCHES FOR CONTROL OF BUILDING LIGHTS. COORDINATE EXACT SWITCH LOCATION WITH THE OWNER PRIOR TO INSTALLATION.

1 FLOOR PLAN - LIGHTING  
3/16" = 1'-0"



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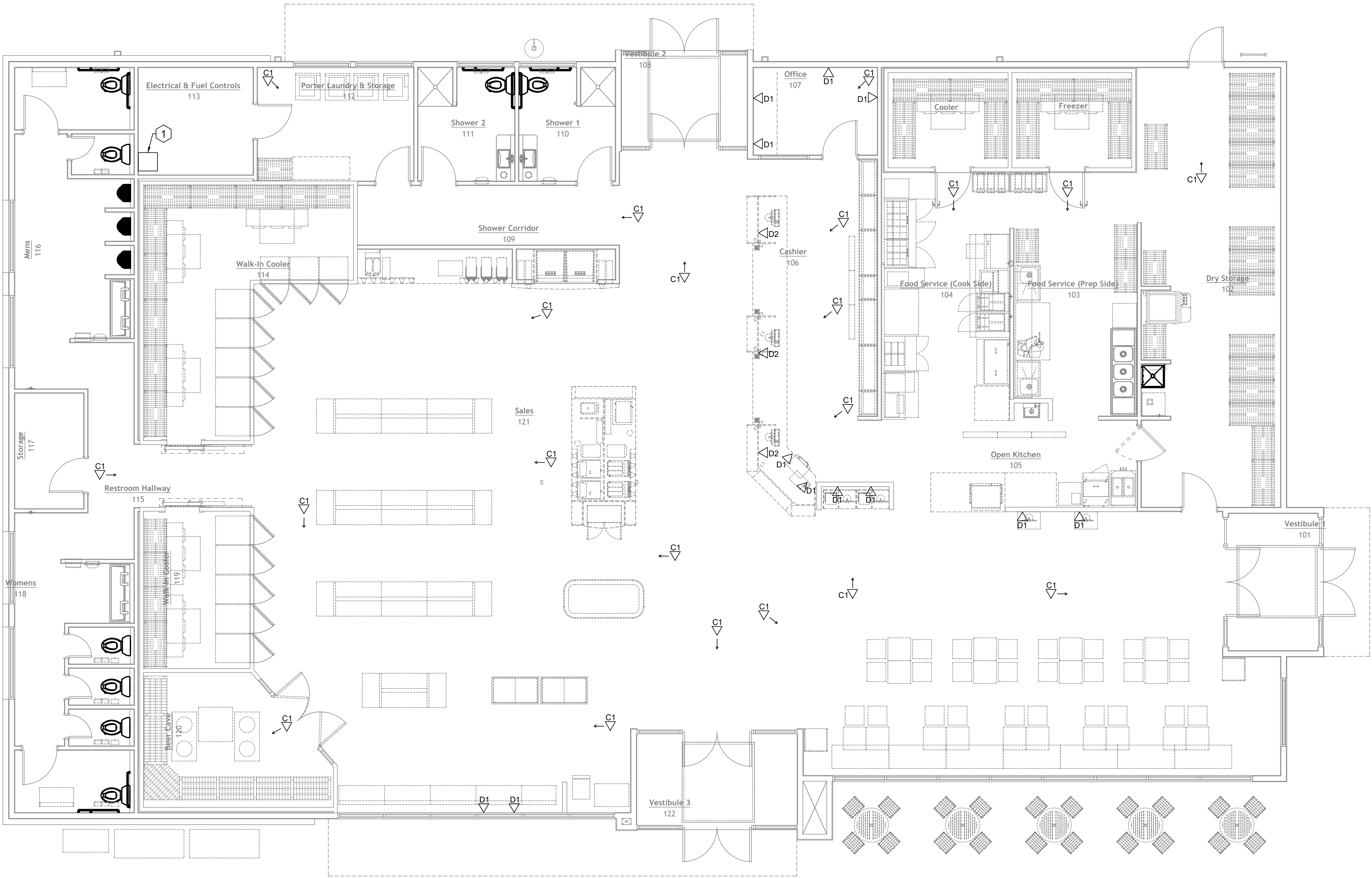
FLOOR PLAN -  
LIGHTING

PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:  
11/21/2024

SHEET  
E102



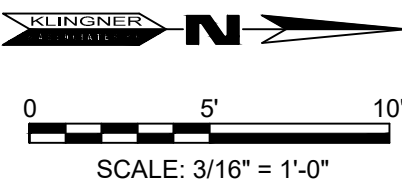
LOW VOLTAGE SYMBOL LEGEND	
	PROVIDE A CAT6 DATA JACK WITH CAT6 DATA CABLE ROUTED TO THE DATA RACK
	PROVIDE (2) CAT6 DATA JACKS WITH (2) CAT6 DATA CABLE ROUTED TO THE DATA RACK
	PROVIDE A CAT6 DATA JACK WITH CAT6 DATA CABLE ROUTED TO THE CAMERA EQUIPMENT VAULT IN OFFICE 107



**LOW VOLTAGE PLAN KEYED (X) NOTES:**

1. PROVIDE WALL MOUNTED 36" HIGH DATA RACK, CHATSWORTH MODEL11840-X36. PROVIDE A SINGLE 48 PORT, CAT6 PATCH PANEL IN RACK FOR DATA CABLING TERMINATIONS.

**1 FLOOR PLAN - LOW VOLTAGE**  
3/16" = 1'-0"



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**FLOOR PLAN -  
LOW VOLTAGE**

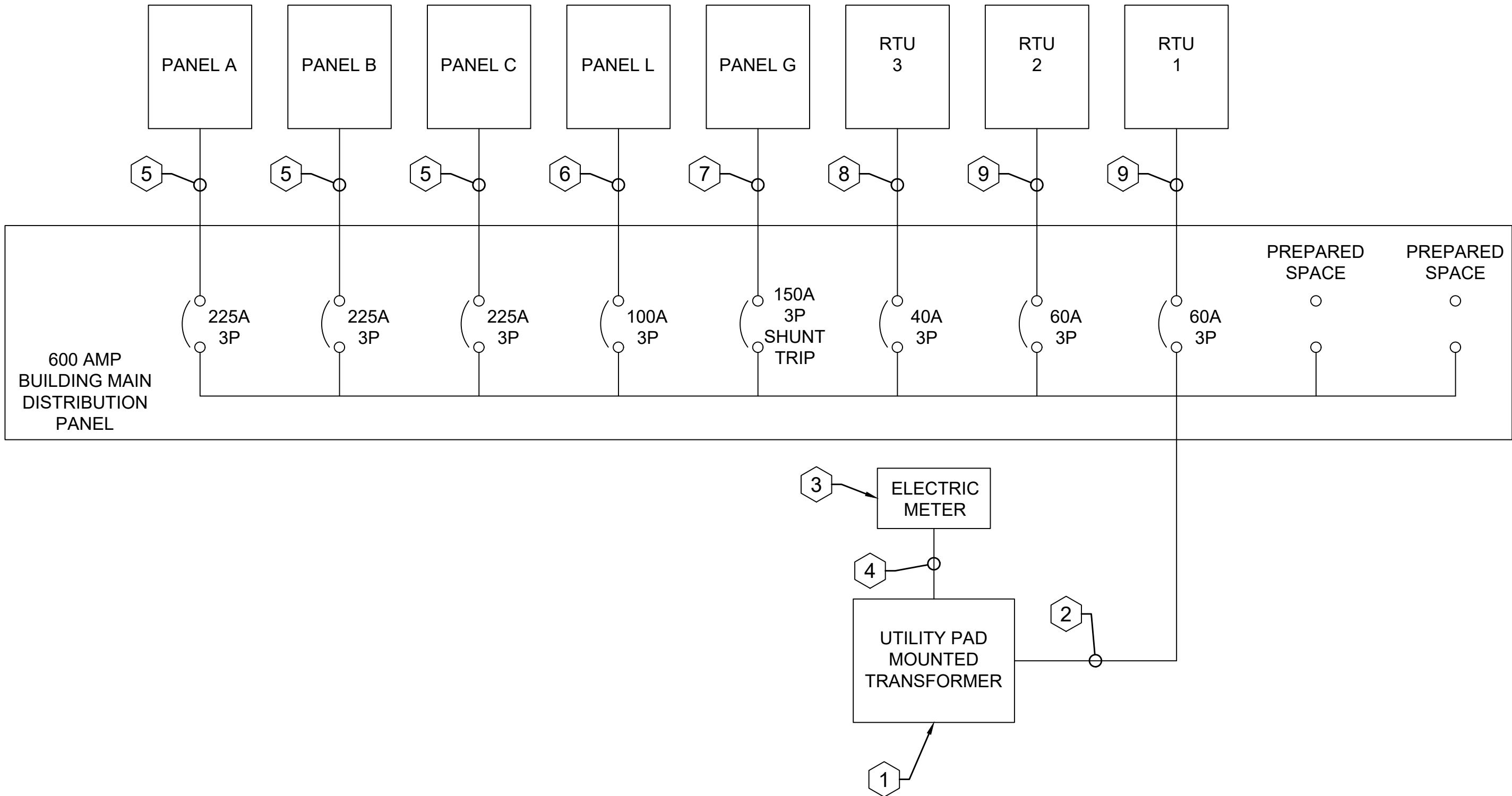
PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:  
11/21/2024

SHEET  
**E103**



PANEL SCHEDULE							
TAG: PANEL M SURFACE MOUNTED PANELBOARD		<div><div>A</div><div>B</div><div>C</div></div>		120/208 VOLTS 600 AMPS		3 PH 4 WIRE MAIN LUG ONLY	
CIRCUIT DESCRIPTION				AMP	CIRCUIT DESCRIPTION		
PANEL A	225	1	<div><div></div><div></div><div></div></div>	2	225	PANEL B	
		3	<div><div></div><div></div><div></div></div>	4			
		5	<div><div></div><div></div><div></div></div>	6			
PANEL C	225	7	<div><div></div><div></div><div></div></div>	8	225	PANEL G	
		9	<div><div></div><div></div><div></div></div>	10			
		11	<div><div></div><div></div><div></div></div>	12			
PANEL L	100	13	<div><div></div><div></div><div></div></div>	14	SHUNT TRIP		
		15	<div><div></div><div></div><div></div></div>	16			
		17	<div><div></div><div></div><div></div></div>	18			
RTU-1	60	19	<div><div></div><div></div><div></div></div>	20	40	RTU-3	
		21	<div><div></div><div></div><div></div></div>	22			
		23	<div><div></div><div></div><div></div></div>	24			
PREPARED SPACE (200A)	--	25	<div><div></div><div></div><div></div></div>	26	60	RTU-2	
		27	<div><div></div><div></div><div></div></div>	28			
		29	<div><div></div><div></div><div></div></div>	30			
BLANK	--	31	<div><div></div><div></div><div></div></div>	32	--	PREPARED SPACE (200A)	
		33	<div><div></div><div></div><div></div></div>	34			
		35	<div><div></div><div></div><div></div></div>	36			
BLANK	--	37	<div><div></div><div></div><div></div></div>	38	--	BLANK	
		39	<div><div></div><div></div><div></div></div>	40			
		41	<div><div></div><div></div><div></div></div>	42			
		G		N			
		<div><div></div></div>		<div><div></div></div>			

PANEL SCHEDULE						
TAG: PANEL A SURFACE MOUNTED PANELBOARD		<div><div>A</div><div>B</div><div>C</div></div>		120/208 VOLTS      3 PH 4 WIRE 225 AMPS              MAIN LUG ONLY		
CIRCUIT DESCRIPTION	AMP			AMP	CIRCUIT DESCRIPTION	
OFFICE RCPTS	20	1		2	20	OFFICE RCPTS
OFFICE RCPTS	20	3		4	20	CIGARETTE DISPLAY RCPTS
CIGARETTE DISPLAY RCPTS	20	5		6	20	MENU BOARD/TV RCPTS
MENU BOARD/TV RCPTS	20	7		8	20	CASH REGISTER RCPTS
CASH REGISTER RCPTS	20	9		10	20	CASH REGISTER RCPTS
CASH REGISTER RCPTS	20	11		12	20	CASH REGISTER RCPTS
CASH REGISTER RCPTS	20	13		14	20	SAFE RCPTS
LOTTO RCPTS	20	15		16	20	SELF CHECK RCPTS
SELF CHECK RCPTS	20	17		18	20	HEATED MERCHANDISER
ORDERING KIOSK	20	19		20	20	ORDERING KIOSK
BLENDER	20	21		22	20	SPARE
FOUNTAIN MACHINE	20	23		24	20	ICE MAKER
FOUNTAIN MACHINE	20	25		26		
TEA BREWER	20	27		28	20	ICE MAKER
TEA BREWER	20	29		30		
TEA BREWER	20	31		32	20	SPARE
MENU BOARDS	20	33		34	20	FROZEN BEVERAGE
MENU BOARDS	20	35		36	20	TEA BUBBLER
MICROWAVE	20	37		38	20	MICROWAVE
CREAMER	20	39		40	20	CREAMER
CAPPUCINO MACHINE	20	41		42	20	BEAN TO CUP COFFEE MACHINE
FUTURE EQUIPMENT	20	43		44		
ICE CREAM MACHINE	20	45		46	20	BEAN TO CUP COFFEE MACHINE
		47		48		
SIGNAGE	20	49		50	20	SPARE
SPARE	20	51		52	20	SPARE
		53		54		
		<div><div>G</div><div>N</div></div>				



### KEYED NOTES: X

- NEW PAD MOUNTED TRANSFORMER BY FULTON ELECTRIC SYSTEM.
- ROUTE PARALLEL SETS OF 4-350 MCM & 1/0 GND IN 3" PVC CONDUITS BURIED 36" BELOW GRADE.
- PROVIDE ELECTRIC METER PER FULTON ELECTRIC SYSTEM REQUIREMENTS.
- PROVIDE WIRING FOR ELECTRIC METER PER FULTON ELECTRIC SYSTEM REQUIREMENTS.
- ROUTE 4 - 4/0 & 1-#4 AWG GND IN A 2 1/2" CONDUIT.
- ROUTE 4 - #3 & 1-#8 AWG GND IN A 1-1/4" CONDUIT.
- ROUTE 4-1/0 & #6 AWG GND IN A 2" CONDUIT.
- ROUTE 3 - #8 & 1-#10 AWG GND IN A 3/4" CONDUIT.
- ROUTE 3 - #6 & 1-#10 AWG GND IN A 3/4" CONDUIT.

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1000 HOLIDAY INN LANE, FULTON, KY  
GOLIGHTLY & LONG PROPERTIES LLC  
5820 CAIRO ROAD  
PADUCAH, KY 42001

Non-Reduced Sheet Size: 24" x 36"

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Reduced size plans may not conform to standard scales.

DESIGNED MAR	DRAWN MAR
FIELD	FIELD BOOK

CHECKED MAR/SCH	CHECK DATE 11/03/24
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SHEET TITLE

ELECTRICAL  
DETAILS

PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:  
11/21/2024

SHEET  
E301

W24-040

**WRFT**  
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PANEL SCHEDULE					
TAG: PANEL B SURFACE MOUNTED PANELBOARD		A B C		120/208 VOLTS 3 PH 4 WIRE 225 AMPS MAIN LUG ONLY	
CIRCUIT DESCRIPTION	AMP			AMP	CIRCUIT DESCRIPTION
ICE CHEST RCPTS	20	1		2	ICE CHEST RCPTS
SPARE	20	3		4	KITCHEN RCPT
KITCHEN RCPT	20	5		6	OVEN
WARMER	20	7		8	50 CONVEYOR OVEN
KITCHEN RCPT	20	9		10	
BURGER WARMER	20	11		12	20 TOASTER
FRYER	20	13		14	
SHUNT TRIP		15		16	20 KITCHEN RCPT
FRYER	20	17		18	20 SLICER
SHUNT TRIP		19		20	20 KITCHEN RCPTS
KITCHEN RCPT	20	21		22	20 CLEANING SYSTEM
CLEANING SYSTEM	20	23		24	20 WATER HEATER
RTU RCPTS	20	25		26	20 EXTERIOR RCPTS
ATM MACHINE	20	27		28	20 LOTTO MACHINE
WASHING MACHINE	20	29		30	20 DISHWASHER
WASHING MACHINE	20	31		32	30 DRYER
SHOWER 1/2 RCPTS	20	33		34	
MENS/WOMENS RCPTS	20	35		36	20 SHOWER 1 HAND DRYER
IT RACK RCPTS	20	37		38	30 DRYER
MENS WASH STATION	20	39		40	
WOMENS WASH STATION	20	41		42	20 SPARE
SPARE	20	43		44	20 SPARE
SPARE	20	45		46	20 SPARE
SPARE	20	47		48	20 SPARE
SPARE	20	49		50	20 SPARE
SPARE	20	51		52	20 SPARE
SPARE	20	53		54	20 SPARE
		G		N	

PANEL SCHEDULE					
TAG: PANEL G SURFACE MOUNTED PANELBOARD		A B C		120/208 VOLTS 3 PH 4 WIRE 225 AMPS SHUNT TRIP MAIN BREAKER	
CIRCUIT DESCRIPTION	AMP			AMP	CIRCUIT DESCRIPTION
GAS CANOPY FUEL DISPENSER	20	1		2	20 GAS CANOPY FUEL DISPENSER
GAS CANOPY FUEL DISPENSER	20	3		4	20 GAS CANOPY FUEL DISPENSER
GAS CANOPY FUEL DISPENSER	20	5		6	20 GAS CANOPY FUEL DISPENSER
DIESEL CANOPY FUEL DISPENSER	20	7		8	20 DIESEL CANOPY FUEL DISPENSER
DIESEL CANOPY FUEL DISPENSER	20	9		10	20 DIESEL CANOPY FUEL DISPENSER
FUEL TANK PUMP	20	11		12	20 FUEL TANK PUMP
		13		14	
		15		16	
FUEL TANK PUMP	20	17		18	20 FUEL TANK PUMP
		19		20	
		21		22	
DEF TANK PUMP	20	23		24	20 VEEDER ROOT CONTROL PANEL
		25		26	20 VEEDER ROOT CONTROL PANEL
		27		28	20 SPARE
SPARE	20	29		30	20 SPARE
SPARE	20	31		32	20 SPARE
SPARE	20	33		34	20 SPARE
SPARE	20	35		36	20 SPARE
SPARE	20	37		38	20 SPARE
SPARE	20	39		40	20 SPARE
SPARE	20	41		42	20 SPARE
		G		N	

PANEL SCHEDULE					
TAG: PANEL C SURFACE MOUNTED PANELBOARD		A B C		120/208 VOLTS 3 PH 4 WIRE 225 AMPS MAIN LUG ONLY	
CIRCUIT DESCRIPTION	AMP			AMP	CIRCUIT DESCRIPTION
BEER CAVE CONDENSER	30	1		2	20 BEER CAVE DOOR
		3		4	20 BEER CAVE EVAP HEAT TAPE
		5		6	20 WALK IN DOOR
WALK IN CONDENSER	30	7		8	20 WALK IN EVAP HEAT TAPE
		9		10	30 COOLER CONDENSER
		11		12	
WALK IN EVAP HEAT TAPE	20	13		14	
WALK IN EVAP HEAT TAPE	20	15		16	20 WALK IN DOOR
WALK IN CONDENSER	30	17		18	20 WALK IN EVAP HEAT TAPE
		19		20	30 WALK IN CONDENSER
		21		22	
WALK IN EVAP HEAT TAPE	20	23		24	
DUCTLESS SPLIT UNIT	20	25		26	20 WALK IN EVAP HEAT TAPE
		27		28	30 WALK IN CONDENSER
		29		30	
COOLER CONDENSER	30	31		32	
		33		34	20 COOLER EVAP HEAT TAPE
COOLER DOOR	20	35		36	30 FREEZER CONDENSER
FREEZER EVAP HEAT TAPE	20	37		38	
TOILET EXHAUST FAN	20	39		40	
SHOWER 2 EXHAUST FAN	20	41		42	20 SHOWER 1 EXHAUST FAN
KITCHEN MAU	20	43		44	20 KITCHEN EXHAUST FAN
		45		46	20 INTERIOR SIGNAGE
SPARE	20	47		48	20 SPARE
SPARE	20	49		50	20 SPARE
SPARE	20	51		52	20 SPARE
SPARE	20	53		54	20 SPARE
		G		N	

PANEL SCHEDULE					
TAG: PANEL L SURFACE MOUNTED PANELBOARD		A B C		120/208 VOLTS 3 PH 4 WIRE 225 AMPS MAIN LUG ONLY	
CIRCUIT DESCRIPTION	AMP			AMP	CIRCUIT DESCRIPTION
RESTROOM LIGHTING	20	1		2	20 LOBBY DOOR LIGHTING
SALES FLOOR LIGHTING	20	3		4	20 SALES FLOOR LIGHTING
KITCHEN LIGHTING	20	5		6	20 DIESEL CANOPY LIGHTING
GAS CANOPY LIGHTING CKT 1	20	7		8	20 GAS CANOPY LIGHTING CKT 2
EXTERIOR LIGHTING CKT 1	20	9		10	20 EXTERIOR LIGHTING CKT 2
		11		12	
		13		14	
GAS CANOPY LIGHTING CKT	20	15		16	20 DIESEL CANOPY LIGHTING CKT
PYLON SIGN	20	17		18	20 SPARE
		19		20	20 SPARE
		21		22	20 SPARE
SPARE	20	23		24	20 SPARE
SPARE	20	25		26	20 SPARE
SPARE	20	27		28	20 SPARE
SPARE	20	29		30	20 SPARE
SPARE	20	31		32	20 SPARE
SPARE	20	33		34	20 SPARE
SPARE	20	35		36	20 SPARE
SPARE	20	37		38	20 SPARE
SPARE	20	39		40	20 SPARE
SPARE	20	41		42	20 SPARE
		G		N	

KEYED NOTES: X

1. PROVIDE SHUNT TRIP MAIN CIRCUIT BREAKER. SHUNT TRIP BREAKER TO BE ACTIVATED BY EMERGENCY FUEL STOPS.

W24-040



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SHEET TITLE

ELECTRICAL  
DETAILS

PROJECT NO. 23-7038
DRAWING ISSUED DATE: 11/21/2024
SHEET

E302

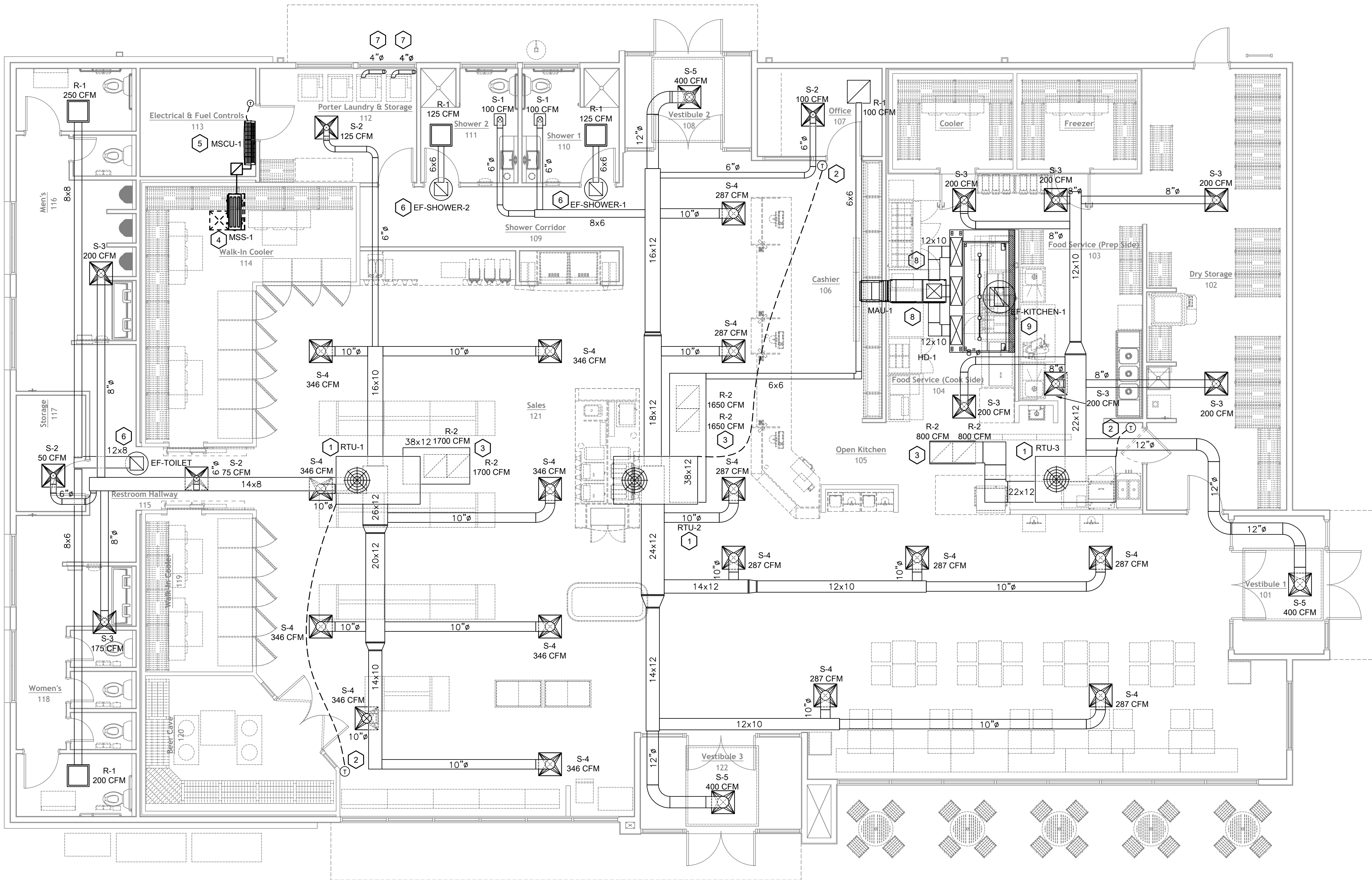
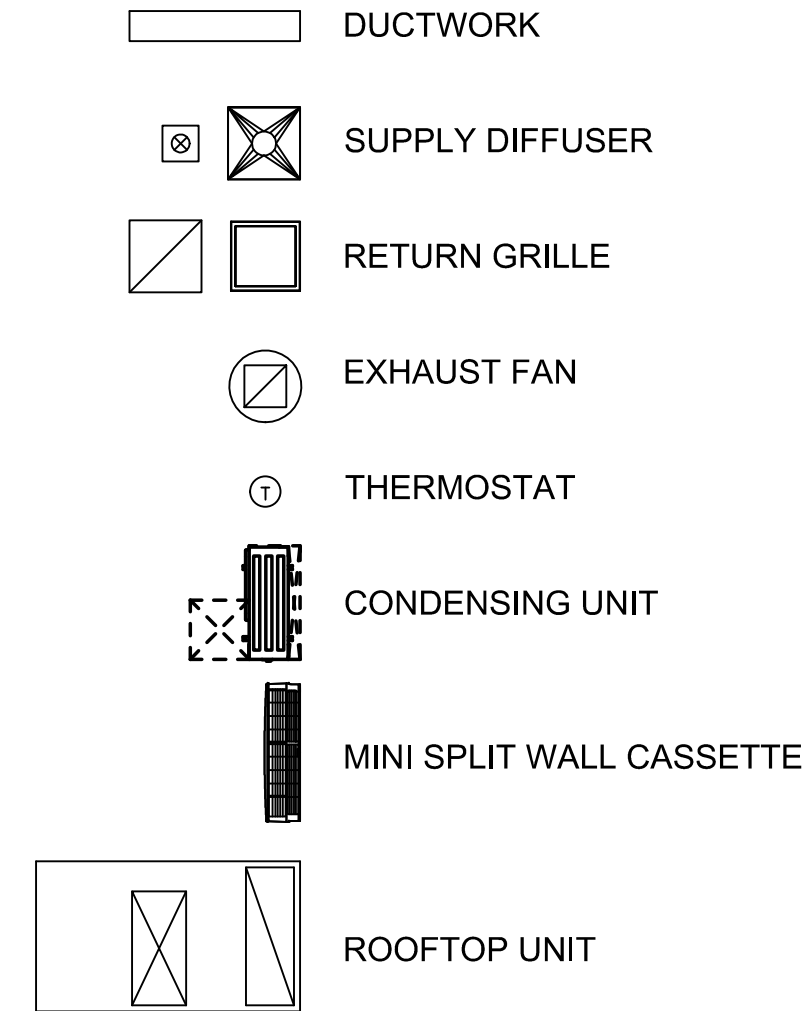
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GENERAL HVAC NOTES (ALL SHEETS)

- THIS CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES IN LOCATING DUCTWORK, PIPING AND EQUIPMENT TO AVOID ANY MAINTENANCE CONFLICTS.
- COORDINATE INSTALLATION OF NEW DUCT W/ STRUCTURE.
- CONTRACTOR TO INSTALL ALL WORK IN STRICT COMPLIANCE WITH LOCAL CODES AND ORDINANCES.
- MECHANICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND EQUIP. SUBMITTAL PRIOR TO INSTALLING OR FABRICATING ANY DUCTWORK.
- PROVIDE ADJUSTABLE VOLUME DAMPER AT ALL BRANCH DUCTWORK.
- PROVIDE TURNING VALVES AT ALL ELBOW (TYPICAL).
- DUCT SIZES SHOWN AS INTERNAL CLEAR DIMENSIONS. ALL DUCTWORK (SUPPLY/RETURN AND EXHAUST) SHALL BE INSULATED WITH 2" THICK FLEXIBLE DUCTWRAP; THERMAL CONDUCTIVITY OF 0.27 AT 75°; DENSITY SHALL BE 1.5 PCF; INSULATION SHALL BE ASTM C1136 COMPLIANT.

HVAC LEGEND:



1 FLOOR PLAN - HVAC  
3/16" = 1'-0"

W24-040



HVAC NEW KEYED "K" NOTES:

- PROVIDE ROOFTOP UNIT TO SUPPLY AND RETURN DROP BETWEEN JOISTS AS SHOWN. UNIT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE U. L. LISTED IONIZATION TYPE SMOKE DETECTOR INTERLOCKED W/ RTU CONTROLS TO SHUT RTU (UNITS OVER 2000 CFM) DOWN UPON ACTIVATION OF DETECTOR. LOCATE IN RETURN AIR DUCTWORK.
- PROVIDE THERMOSTAT WITH REMOTE WALL MOUNTED SENSOR (LOCATION AS SHOWN) AND CONTROLLER MOUNTED IN MANAGER'S OFFICE. COORDINATE LOCATIONS WITH OTHER ELEMENTS OF WALL/COLUMN. VERIFY EXACT LOCATIONS IN FIELD. COORDINATE EXACT LOCATION WITH OWNER REPRESENTATIVE.
- ROUTE RETURN AIR DUCT APPROXIMATELY AS SHOWN AND CONNECT TO RETURN GRILLES.
- PROVIDE NEW DUCTLESS SPLIT CONDENSING UNIT ON ROOF. INSTALL AS SHOWN ON DETAILS 1/M301 AND 2/M301.
- PROVIDE NEW WALL MOUNTED DUCTLESS SPLIT UNIT. ROUTE REFRIGERANT LINES IN MOST DIRECT VERIDICAL ROUTE TO ROOF MOUNTED CONDENSING UNIT. ROUTE CONDENSATE TO NEAREST FLOOR DRAIN.
- INSTALL NEW EXHAUST FAN ON CURB ON ROOF.
- ROUTE NEW 4" EXHAUST DUCT FROM DRYER DIRECTLY UP THROUGH ROOF TO GOOSENECK. ROUTE IN MOST DIRECT ROUTE. DRYER VENT DOES NOT REQUIRE DUCT INSULATION.
- PROVIDE AND INSTALL NEW SUPPLY AIR DUCTWORK AS SHOWN FROM MAU-1 TO HD-1. ALL DUCTWORK SHALL BE WRAPPED WITH 2" THICK DUCTWRAP INSULATION AT 1.5 PCF DENSITY.
- ROUTE NEW WELDED BLACK STEEL DUCTWORK FROM HD-1 TO EF-KITCHEN-1 FAN ON ROOF. DUCTWORK SHALL BE INSULATED WITH INORGANIC BLANKET ENCAPSULATED WITH SCIRM REINFORCED FOIL MEETING UL 1978; THERMAL CONDUCTIVITY OF 0.442 AT 500°; DENSITY OF 1.4 PCF; SURFACE BURNING CHARACTERISTICS OF 0/0 FLAME AND SMOKE SPREAD. DUCT SIZE SHALL BE 18"X18 OR EQUAL.

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CHECKED	CHECK DATE
MAR/SCH	11/03/24

SHEET TITLE

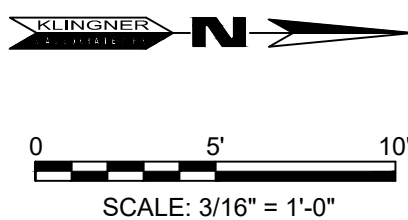
FLOOR PLAN -  
HVAC

PROJECT NO.  
23-7038

DRAWING ISSUED DATE:  
11/21/2024

SHEET

M101





HVAC GENERAL NOTES:

- A. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- B. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
- C. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL AND ELECTRICAL WORK SHOWN ON OTHER CONTRACT DOCUMENTS.
- D. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC, THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- E. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
- F. LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT OF PIPE OR DUCT UP AND DOWNSTREAM, AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
- G. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
- H. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
- I. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
- J. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- K. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, SMOKE DETECTORS AND OTHER CONCEALED MECHANICAL EQUIPMENT.
- L. ALL EQUIPMENT, PIPING AND DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE ISOLATION.
- M. ALL DUCTWORK AND EQUIPMENT SUPPORTED FROM STRUCTURE SHALL BE COORDINATED WITH GENERAL WORK CONTRACTOR. ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
- N. MECHANICAL EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE SUPPORTED FROM ROOF DECK.
- O. LOCATIONS AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- P. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED AND SHALL BE LABELED AT PENETRATION.
- Q. ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH ROOFTOP UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP AND PIPED TO CONCRETE SPLASH BLOCK ON GRADE.
- R. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING AND EQUIPMENT INSTALLATION.
- S. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- T. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS.
- U. ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS.
- V. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS; CONSIDERATION FOR DUCT WRAP SHALL BE GIVEN.
- W. PROVIDE ALL 90° SQUARE ELBOWS WITH RADIUS TURNING VANES UNLESS OTHERWISE INDICATED. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
- X. COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATIONS WITH ARCHITECTURAL CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
- Y. LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS AND CONTROLS.
- Z. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN AND EXHAUST) CONNECTED TO EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
- AA. UNLESS OTHERWISE NOTED, ALL DUCTWORK IS OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION.
- AB. ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- AC. SEE SPECIFICATIONS FOR DUCTWORK GAUGES, BRACING, HANGERS AND OTHER REQUIREMENTS.
- AD. WHERE SHOWN ON THE DRAWINGS ON THE DRAWINGS OR OTHERWISE REQUIRED/INDICATED PROVIDE DYNAMIC FIRE DAMPERS, 1-1/2 HOUR RATED, 165° FUSIBLE LINK. SEE DETAIL 13/M-3.0. PROVIDE ACCESS DOORS IN DUCTWORK AND IN INACCESSIBLE CEILINGS AS NECESSARY. COORDINATE WITH GENERAL WORK.

SCHEDULE OF KITCHEN HOODS									
MARK	MANUFACTURER AND MODEL NO.	TYPE	MOUNTING	LENGTH	WIDTH	HEIGHT	CFM		REMARKS
							EXHAUST	SUPPLY	
HD-1	GREENHECK GHEW	TYPE1	WALL	116"	48"	24"	2018	1614	1-11

NOTES:

- HOOD IS BAFFLE FILTER, SINGLE WALL.
- UNIT TO BE MOUNTED APPROXIMATELY 80" AFF.
- UNIT HAS STAINLESS STEEL BAFFLES.
- UNIT IS 403 SS WHERE EXPOSED.
- UNIT HAS UL 710 LISTING WITHOUT FIRE DAMPER.
- UNIT SIZED BASED ON 209 CFM/LF EXHAUST RATE.
- UNIT HAS INCANDESCENT/CFL LIGHT FIXTURES AT 47.47 FOOT CANDLES.
- UNIT HAS FACTORY MOUNTED EXHAUST COLLARS.
- UNIT HAS FACTORY MOUNTED AIR CURTAIN SUPPLY SYSTEM WITH EXTERNAL SUPPLY COLLARS.
- UNIT HAS LEFT SIDE UTILITY CABINET. CONTRACTOR TO PROVIDE ALL REQUIRED PIPING AND FIRE SUPPRESSION FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- PROVIDE AND INSTALL GAS SOLENOID SHUTOFF VALVE FOR ALL APPLIANCES UNDER HOOD.

SCHEDULE OF EXHAUST FANS										
MARK	MANUFACTURER AND MODEL NO.	TYPE	CFM	EXT. S.P.	RPM	MAX. SONES	ELECTRICAL			REMARKS
							WATTS	HP	VOLT/PH	
EF-TOILET	GREENHECK G-098-A	ROOF DOWNBLAST	450	0.50"	1363	7.4	--	1/4	115/1	1-8
EF-SHOWER-1	GREENHECK G-070-D	ROOF DOWNBLAST	125	0.25"	1436	3.6	--	1/30	115/1	1-2,4-5,8-10
EF-SHOWER-2	GREENHECK G-070-D	ROOF DOWNBLAST	125	0.25"	1436	3.6	--	1/30	115/1	1-2,4-5,8-10
EF-KITCHEN-1	GREENHECK CUE-130-A	ROOF UPBLAST	2018	0.644"	1708	17.2	--	3/4	115/1	1-4,8,11-17

NOTES:

- FAN SHALL BE UL 705 LISTED.
- FAN SHALL INCLUDE NEMA-1 DISCONNECT.
- FAN SHALL INCLUDE PSC MOTOR.
- FAN SHALL INCLUDE SOLID STATE SPEED CONTROL.
- FAN SHALL INCLUDE GALVANIZED BIRD SCREEN.
- FAN SHALL INCLUDE GRAVITY DAMPER, BD-100-PB-12X12.
- FAN SHALL INCLUDE 16" TALL CURB, GPI-19-12-G16.
- FAN SHALL BE SEISMIC RATED PER IBV 2018.
- FAN SHALL INCLUDE GRAVITY DAMPER, BD-90-PB-8X8.
- FAN SHALL INCLUDE 16" TALL CURB, GPF-17-8-G16.
- FAN SHALL INCLUDE FACTORY INSTALLED HINGE.
- FAN SHALL INCLUDE HIGH TEMP CURB SEAL.
- FAN SHALL INCLUDE NON-STICK COATED WHEEL.
- FAN SHALL INCLUDE GREASE TRAP.
- FAN SHALL INCLUDE STAINLESS STEEL BIRD SCREEN.
- FAN SHALL INCLUDE FACTORY INSTALLED CLEANOUT PORT.
- FAN SHALL INCLUDE 16" TALL CURB, GPF-19-G16.

SCHEDULE OF GAS-FIRED ROOFTOP UNITS															COOLING: 95°F	
MARK	MANUFACTURER AND MODEL NO.	CFM	ESP	SUPPLY BHP	O.A CFM	COOLING CAPACITY					HEATING CAPACITY		ELECTRICAL		UNIT WEIGHT W/O CURB	REMARKS
						EDB	EWB	LDB	LWB	SHC	TOT	INPUT	OUTPUT	MCA	VOLT/PH	
RTU-1	CARRIER 48GCDN09F2M5-8F5C	3400	1.0"	1.86	477	79.0	65.6	57.7	56.5	77.9	103.2	90-125	66-102.5	48	208-230/3	~1000
RTU-2	CARRIER 48GCDN09F2M5-8F5C	3400	1.0"	1.86	477	79.0	65.6	57.7	56.5	77.9	103.2	90-125	66-102.5	48	208-230/3	~1000
RTU-3	CARRIER 48GCDK05A1M5-8F5C	1600	0.60"	0.68	162	78.3	65.1	57.9	56.7	37.8	49.9	65	53	29	208-230/3	~700

NOTES:

- UNIT IS HIGH EFFICIENCY.
- UNIT HAS LOW GAS HEAT.
- UNIT HAS SINGLE CIRCUIT, 2 STAGE COOLING WITH HUMIDIMIZER SYSTEM.
- UNIT HAS RETURN AIR SMOKE DETECTOR AND RETURN AIR CO2 DETECTOR (FOR DEMAND CONTROL VENTILATION).
- UNIT HAS STANDARD/MEDIUM STATIC - ECOBLUE VANE AXIAL FAN.
- UNIT HAS LOUVER HALL GUARD.
- UNIT HAS ELECTROMECHANICAL CONTROLS WITH ECONOMIZER FAULT DETECTION AND DIAGNOSTICS.
- UNIT HAS ENTHALPY BASED ECONOMIZER AND BAROMETRIC RELIEF.
- UNIT HAS HINGED ACCESS PANELS AND POWERED CONVENIENCE OUTLET.
- UNIT HAS NON-FUSED DISCONNECT.
- UNIT HAS DIRECT DRIVE ECOBLUE-STANDARD STATIC FAN.

SCHEDULE OF GRILLES AND DIFFUSERS										
MARK	MANUFACTURER AND MODEL NO.	TYPE	MOUNT	CFM	NECK	MODULE	DAMPER	MATERIAL	FINISH	REMARKS
S-1	KRUEGER SHR w/ OBD	4-WAY CEILING DIFFUSER	CLG.	100	6"	12"x12"	YES	STEEL	WHITE	1-3
S-2	KRUEGER SHR w/ OBD	4-WAY CEILING DIFFUSER	CLG.	50-125	6"	24"x24"	YES	STEEL	WHITE	1-2, 4
S-3	KRUEGER SHR w/ OBD	4-WAY CEILING DIFFUSER	CLG.	175-225	8"	24"x24"	YES	STEEL	WHITE	1-2, 4
S-4	KRUEGER SHR w/ OBD	4-WAY CEILING DIFFUSER	CLG.	287-346	10"	24"x24"	YES	STEEL	WHITE	1-2, 4
S-5	KRUEGER SHR w/ OBD	4-WAY CEILING DIFFUSER	CLG.	400	12"	24"x24"	YES	STEEL	WHITE	1-2, 4
R-1	KRUEGER S80	FIXED RETURN GRILLE; 3/4" BLADES, FIXED DEFLECTION	CLG.	100-250	12"x12"	24"x24"	NO	STEEL	WHITE	1,4
R-2	KRUEGER S80	FIXED RETURN GRILLE; 3/4" BLADES, FIXED DEFLECTION	CLG.	800-1700	20"x20"	24"x24"	NO	STEEL	WHITE	1,4

NOTE:

- SEE DRAWINGS FOR LOCATION AND SIZES OF GRILLES AND DIFFUSERS.
- INCLUDE OPTIONAL BALANCING DAMPER IN NECK.
- MODULE SIZE IS 12"x12".
- MODULE SIZE IS 24"x24".
- INCLUDE DUCT EXTRACTOR IN NECK.

WALL HUNG DUCTLESS SPLIT SYSTEM & CONDENSING UNIT SCHEDULE										
PLAN MARK	MANUF.	MODEL	COOLING				ELECTRICAL			REMARKS
			MBH	AMB °F	SEER2	EER2	VOLT/Ø	MCA	MOCP	
MSS-1	MITSUBISHI	PKA-A12LA1	12.0	96	21.3	13.3	208/230-1-60	1.0	--	WALL HUNG
MSCU-1	MITSUBISHI	PUY-A12NKA7	12.0	96	21.3	13.3	208/230-1-60	11.0	28	

NOTES:

- UNIT USES R-410a.
- PROVIDE WIRED REMOTE CONTROLLER (PAR-40MAAU).
- PROVIDE LOW AMBIENT OPERATION WITH THE INSTALLATION OF LOW AMBIENT KIT (WIND BAFFLE).
- PROVIDE MOUNTING RAILS FOR CONDENSING UNIT.
- PROVIDE CONDENSING LIFT KIT.
- ROUTE CONDENSATE DRAIN TO NEAREST FLOOR DRAIN, COORD WITH OWNER & ENGINEER

SCHEDULE OF MAKEUP AIR UNITS												ENT. AIR: 10.2°F	
MARK	MANUFACTURER AND MODEL NO.	TYPE	SERVING	CFM	EXT. S.P.	HP	RPM	LAT	BTUH	ELECTRICAL		REMARKS	
										MCA	VOLT/PHASE		
MAU-1	GREENHECK DGX-P115-H05-VFD	TYPE1	HD-1	1614	.35"	1.5	1725	70	113,000	8.9	208/3	1-17	

NOTES:

- MAU-1 SERVES HD-1 AND EF-KITCHEN.
- UNIT WEIGHT IS APPROXIMATELY 448 LBS W/O CURB.
- UNIT IS DIRECT GAS FIRED.
- UNIT IS 100% CONSTANT VOLUME OUTSIDE AIR.
- UNIT HAS END OUTDOOR AIR INTAKE.
- UNIT HAS BOTTOM DISCHARGE.
- UNIT HAS DOUBLE WALL CONSTRUCTION.
- UNIT HAS G90 GALVANIZED FINISH.
- UNIT HAS TERMINAL STRIP FOR CONTROLS. CONTRACTOR TO PROVIDE AND INSTALL A COMPLETE CONTROL SYSTEM FOR A FULLY FUNCTIONAL SYSTEM.
- UNIT HAS DISCHARGE AIR TEMPERATURE CONTROL.
- UNIT HAS SUPPLY FAN VFD - VFD BY FACTORY.
- UNIT HAS HEATING INLET AIR SENSOR.
- UNIT HAS ALUMINUM MESH FILTERED WEATHERHOOD.
- UNIT HAS 2" ALUMINUM FILTERS.
- UNIT HAS OUTDOOR AIR INLET DAMPER.
- UNIT HAS FLAME SENSING ROD.
- UNIT IS FM COMPLIANT.

W24-040



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ACEE'S NEIGHBORHOOD MARKET & DELI  
1000 HOLIDAY INN LANE, FULTON, KY  
GOLIGHTLY & LONG PROPERTIES LLC  
5820 CAIRO ROAD  
PADUCAH, KY 42001

Non-Reduced Sheet Size: 24" x 36"

Full sized plans have been prepared using standard scales.  
Reduced size plans may not conform to standard scales.

DESIGNED GDJ	DRAWN GDJ
FIELD	FIELD BOOK

CHECKED MAR/SCH	CHECK DATE 11/03/24
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SHEET TITLE

HVAC SCHEDULES  
AND GENERAL  
NOTES

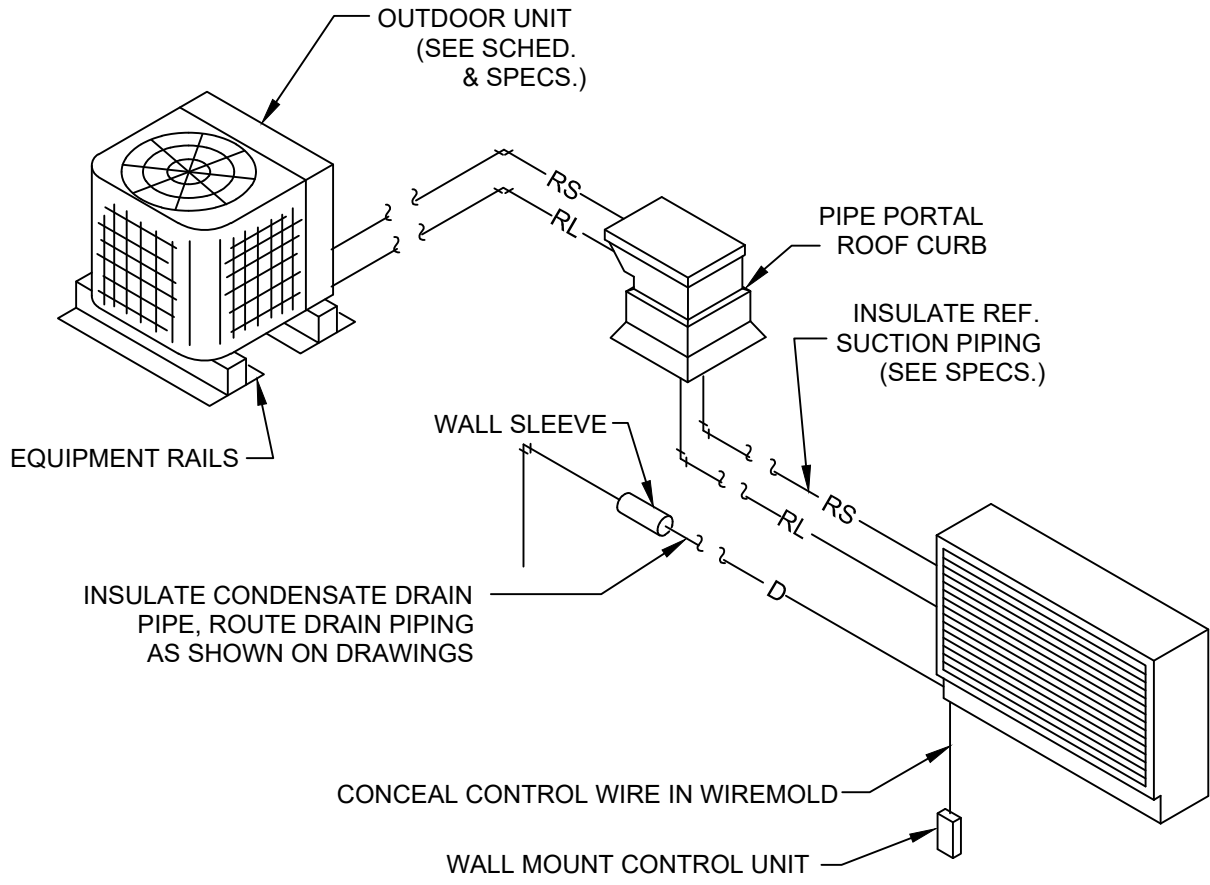
PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:  
11/21/2024

SHEET

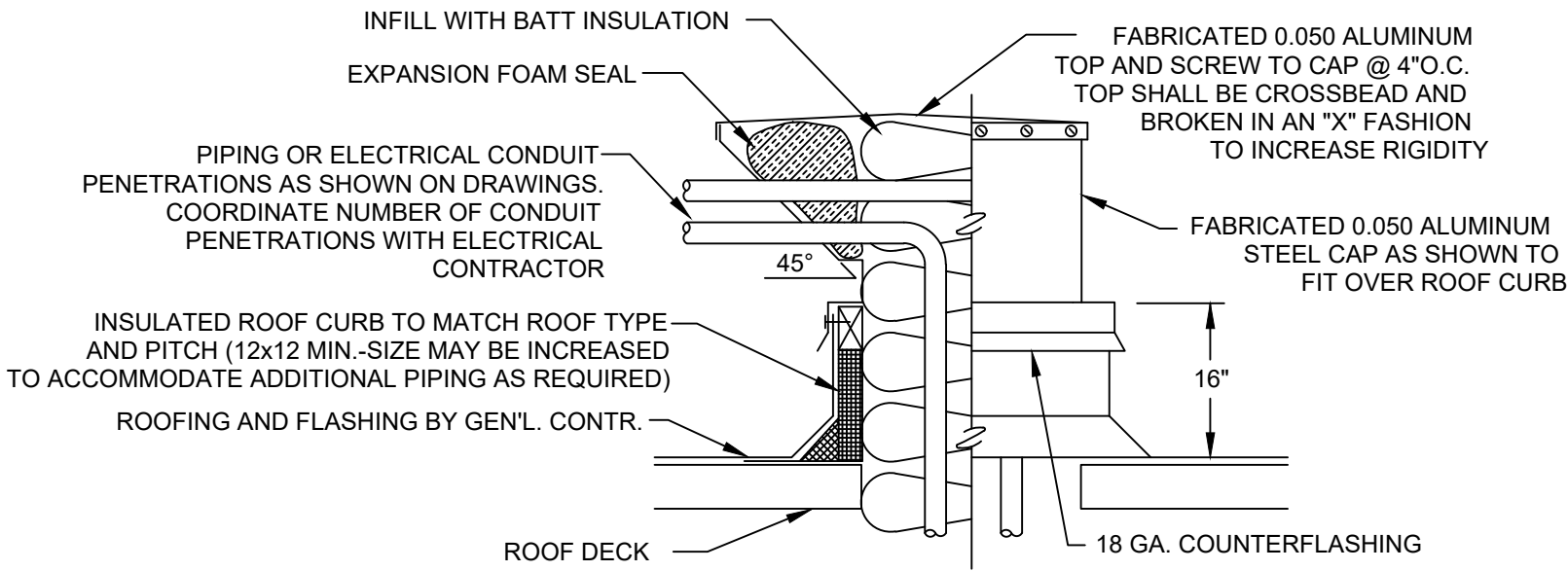
M201

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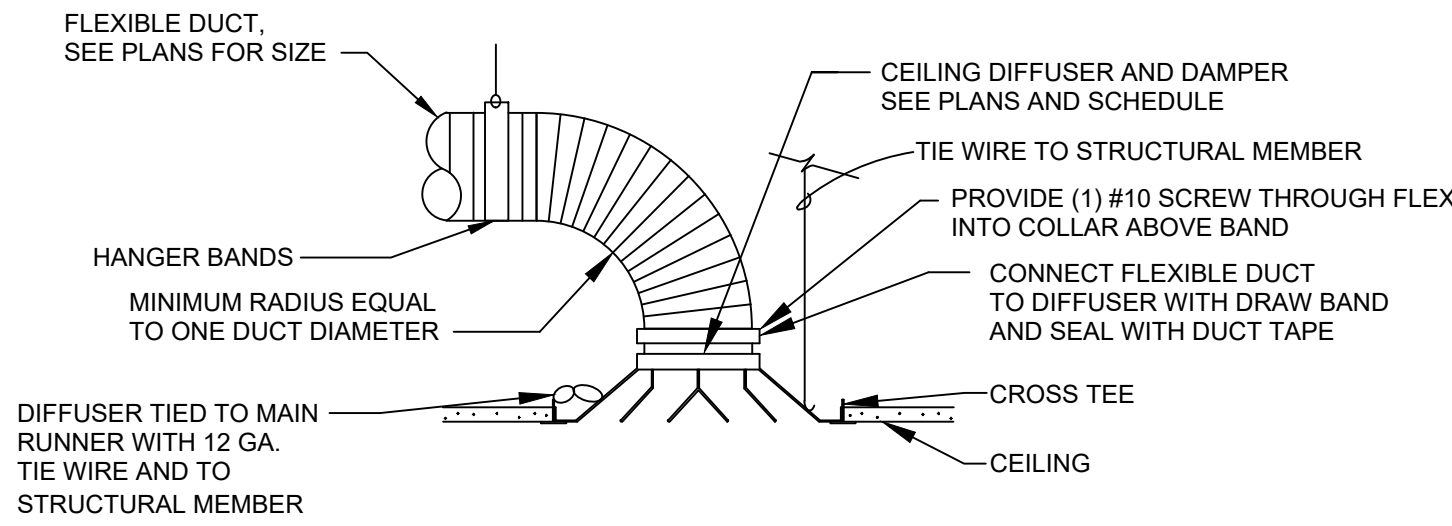




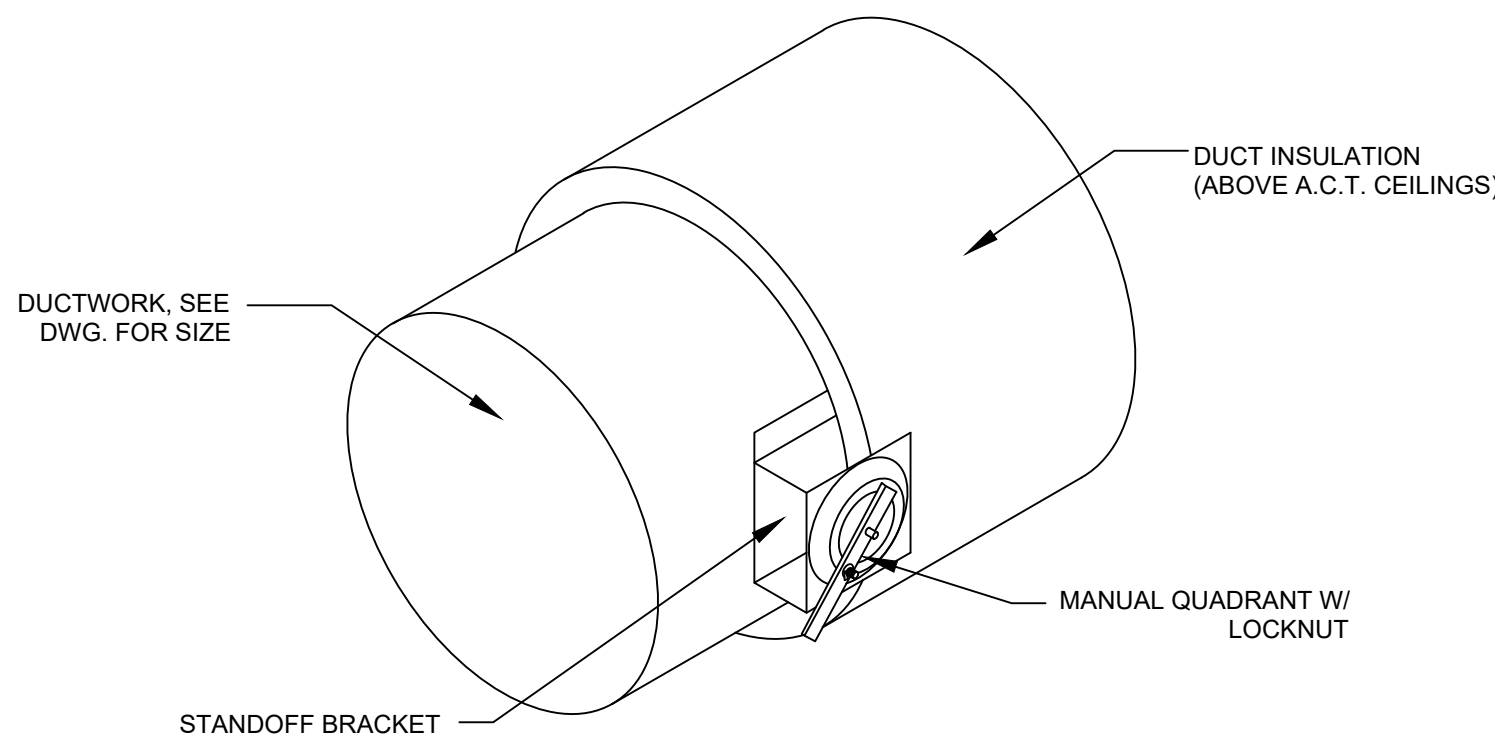
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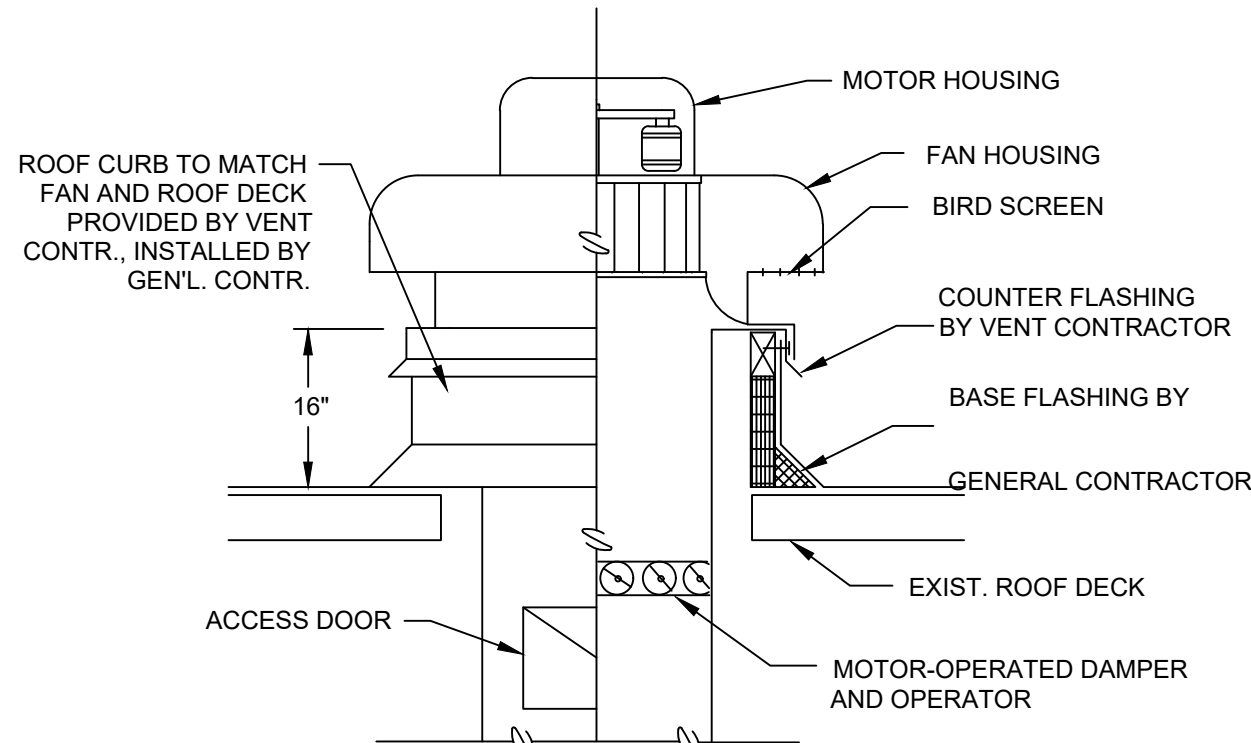
2 FABRICATED PIPE PORTAL ROOF CURB DETAIL  
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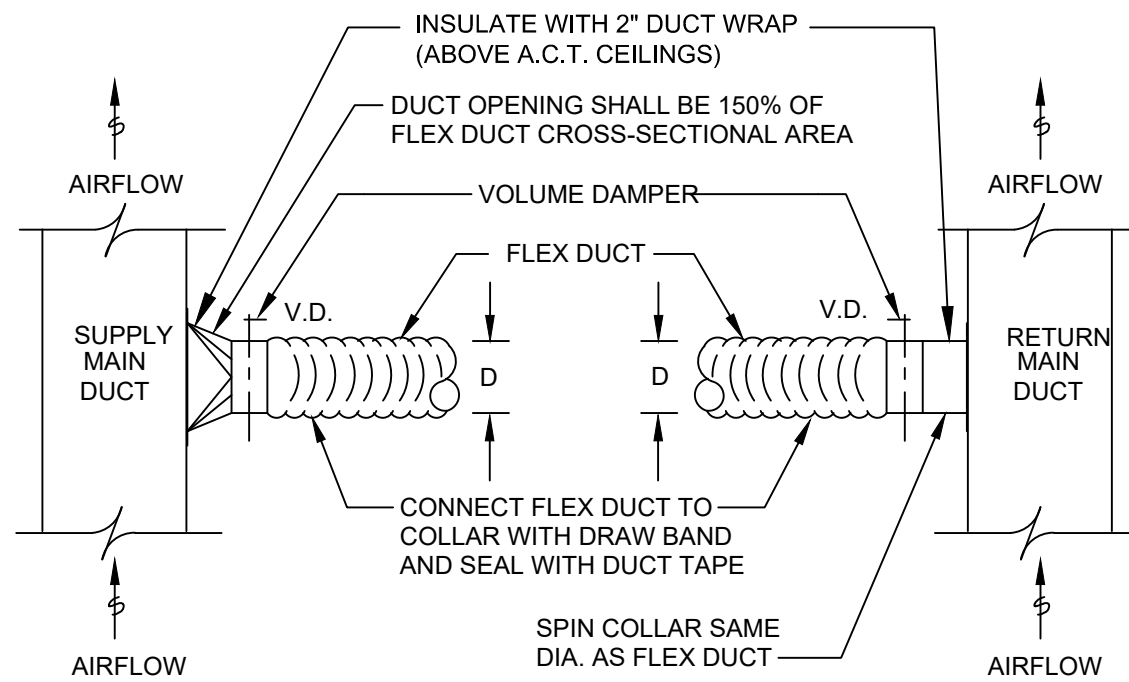
3 DIFFUSER FLEX CONNECTION DETAIL  
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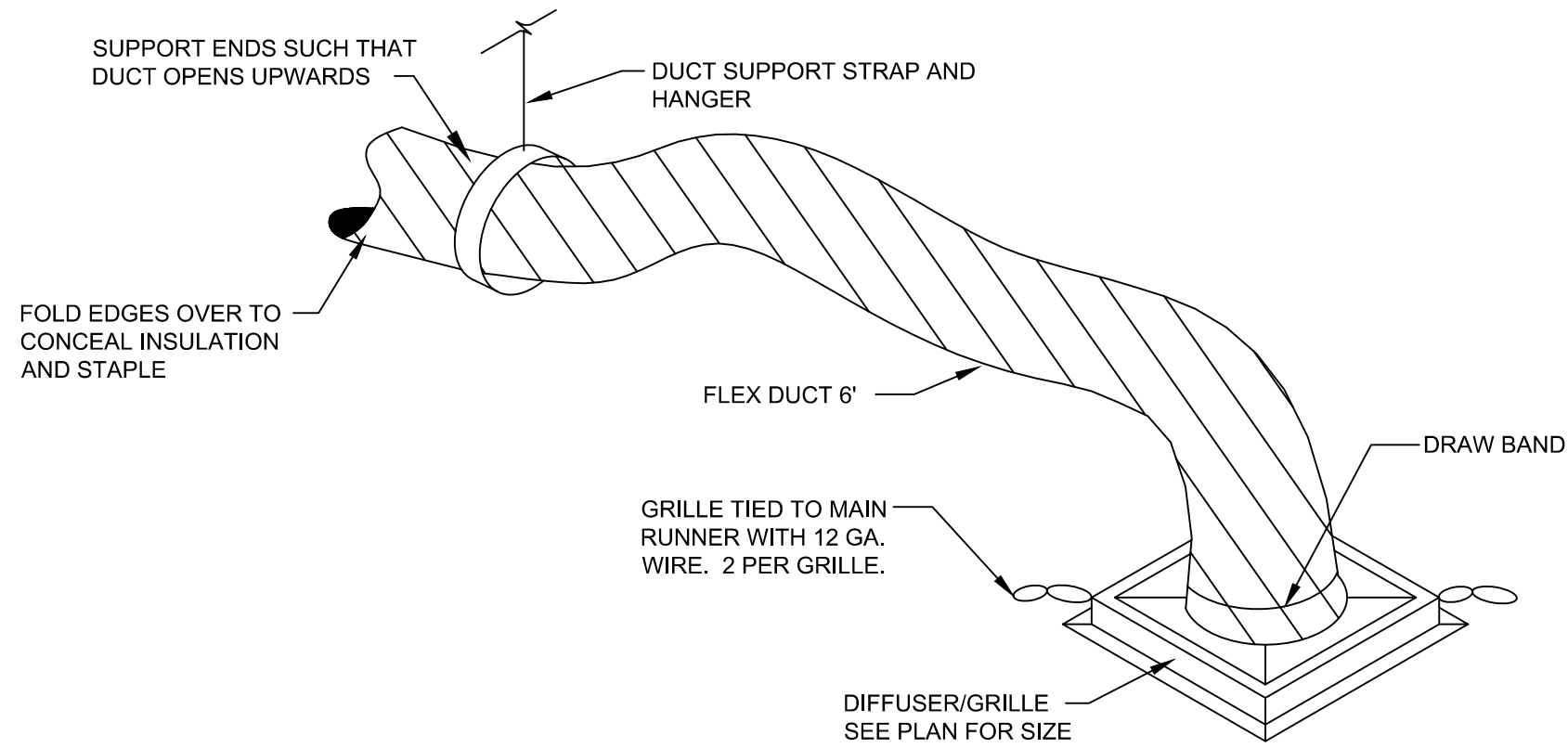
4 MANUAL VOLUME DAMPER INSTALLATION DETAIL  
NOT TO SCALE



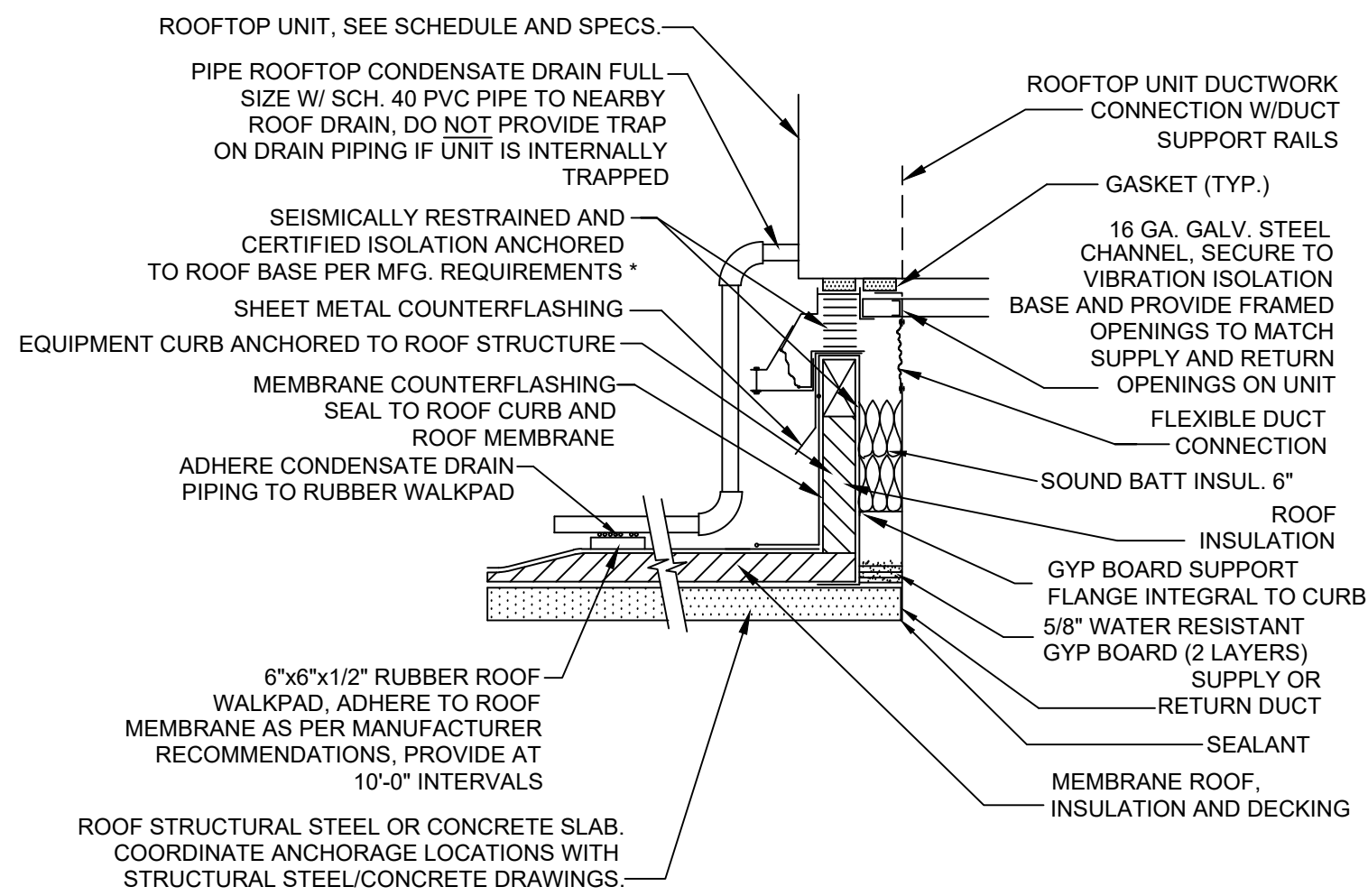
5 ROOF DOWNBLAST EXHAUST FAN  
NOT TO SCALE



6 FLEX DUCT CONNECTION DETAILS  
NOT TO SCALE

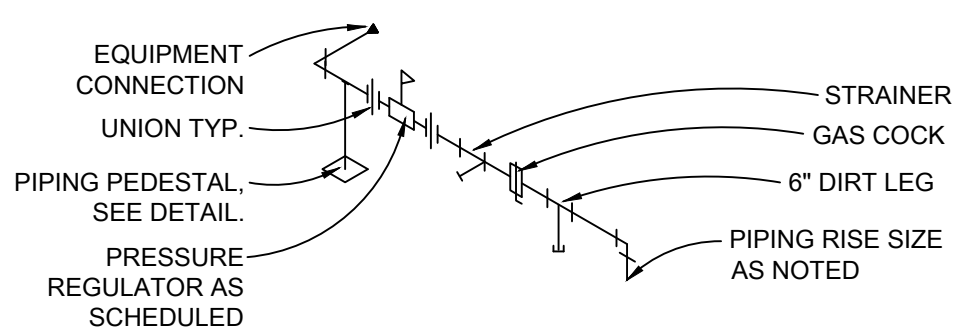


7 FLEX DUCT/SOUND DAMPENING DETAIL  
NOT TO SCALE

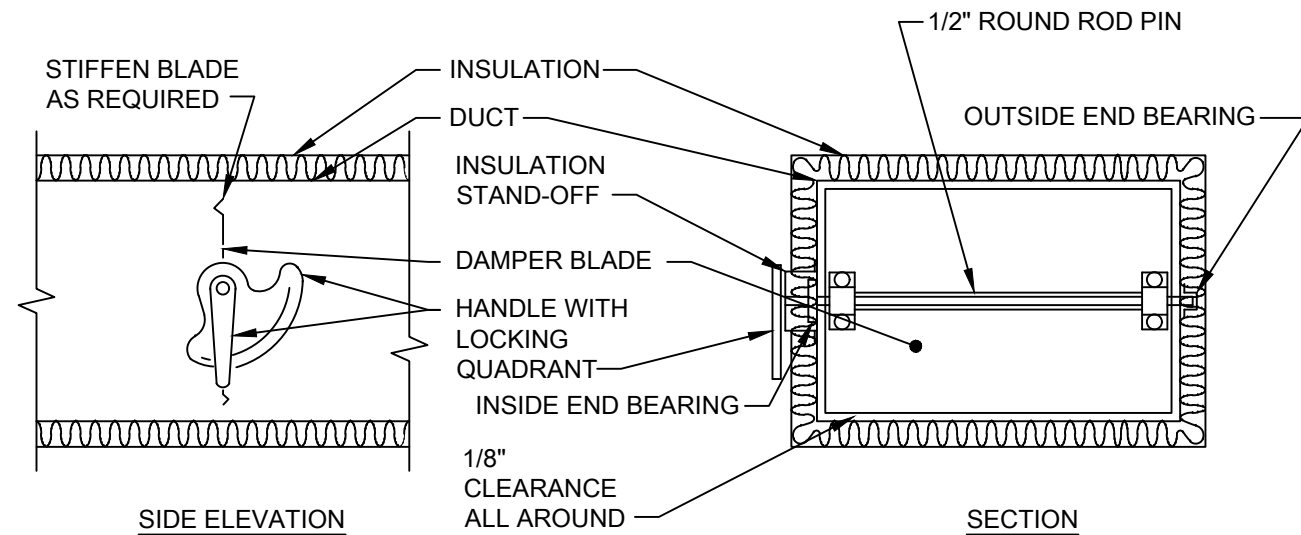


\* COORDINATE SLOPE OF ROOFCURB WITH ROOF SLOPE.

8 ROOFTOP UNIT CURB DETAIL-W/SEISMIC ISOLATION BASE  
NOT TO SCALE



9 ROOFTOP UNIT GAS PIPING CONNECTION  
NOT TO SCALE



- NOTE:
- DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
  - DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

10 VOLUME DAMPER DETAIL W/EXTERIOR DUCT WRAP  
NOT TO SCALE

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SHEET TITLE

HVAC DETAILS

PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:  
11/21/2024

SHEET  
M301



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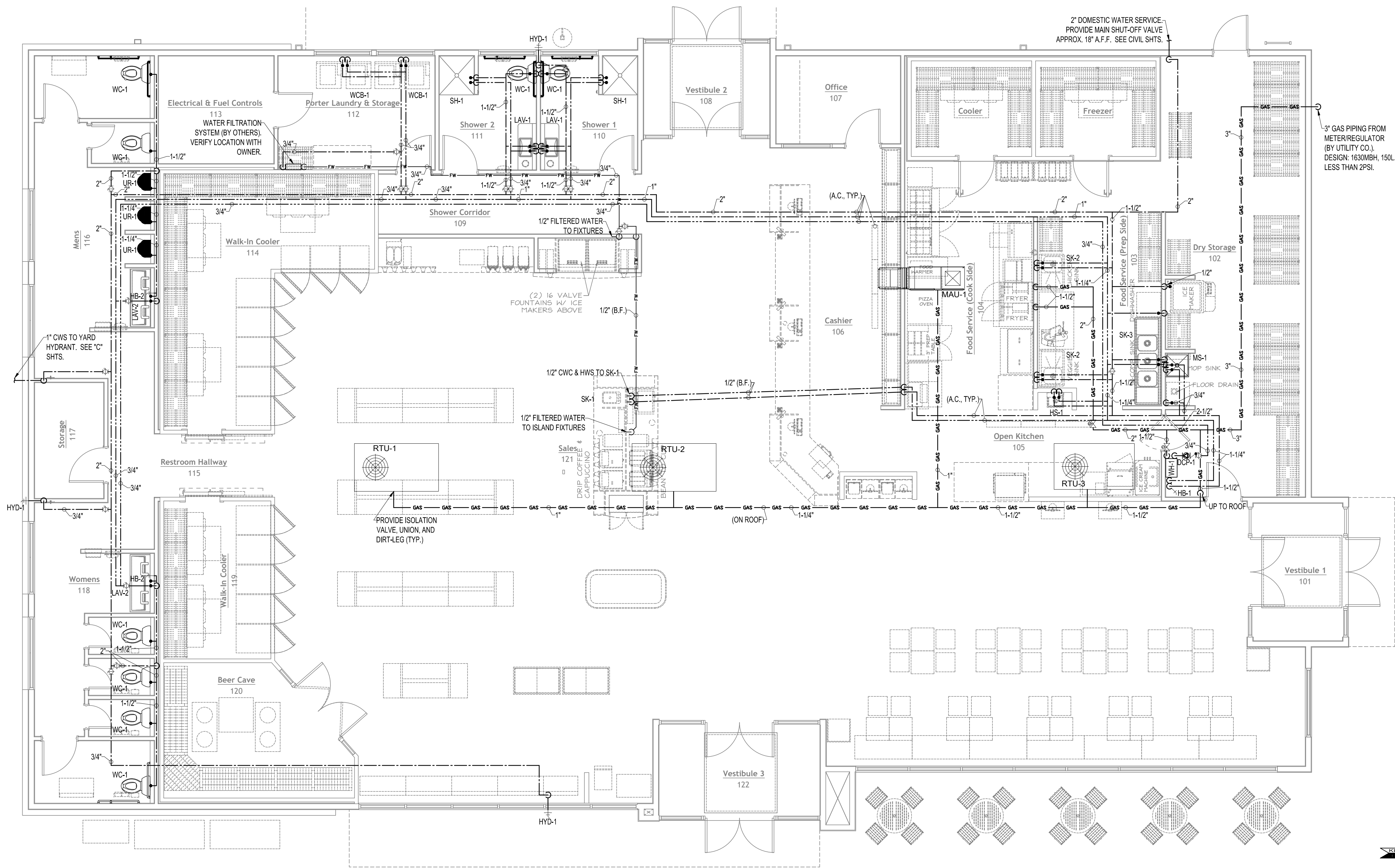
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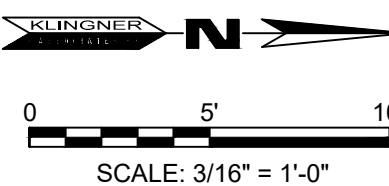
FLOOR PLAN -  
DOMESTIC

PROJECT NO.  
23-7038  
DRAWING ISSUED DATE:  
11/21/2024

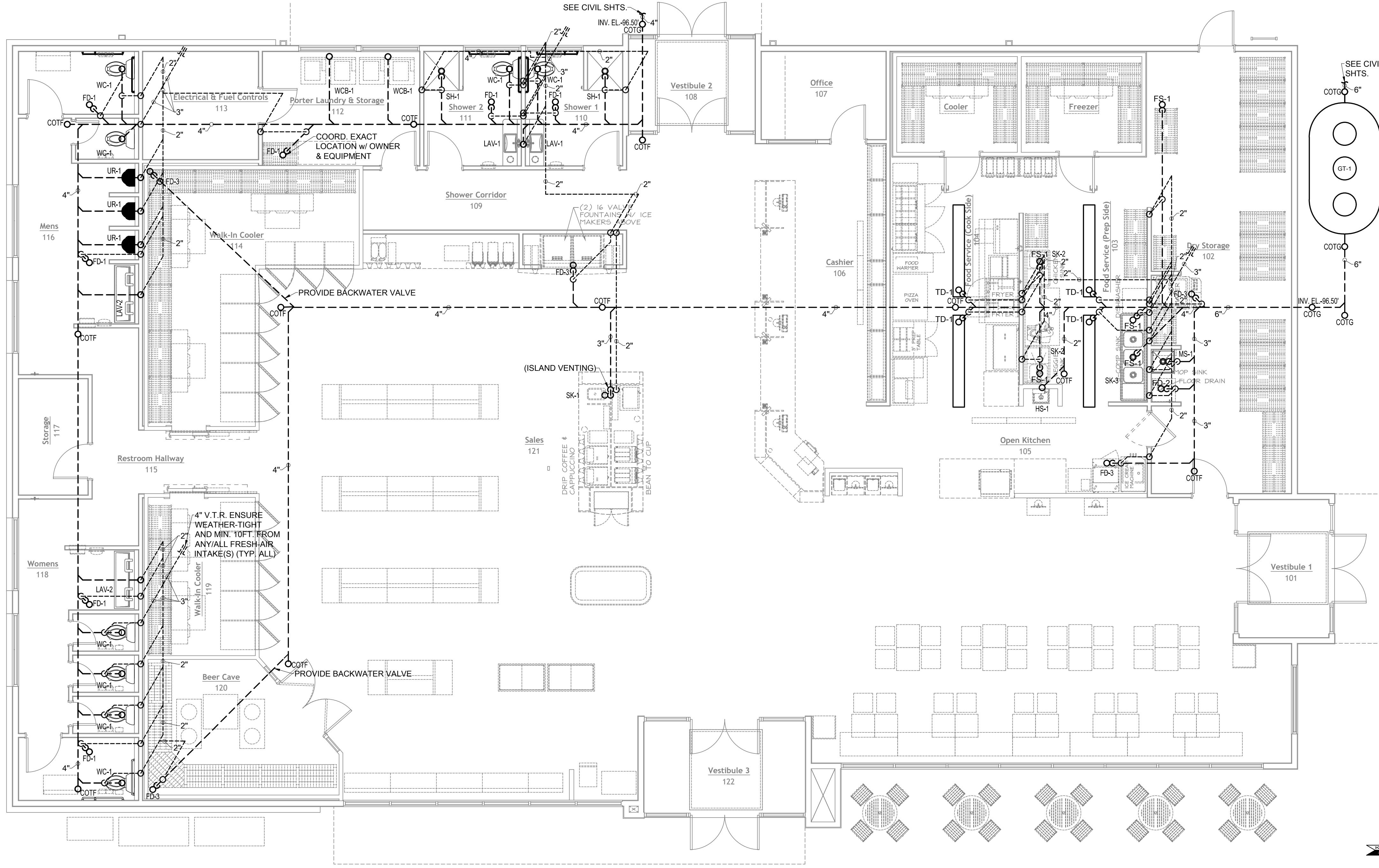
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P101



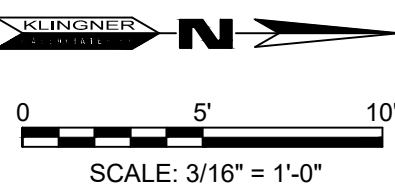
1 FLOOR PLAN - DOMESTIC  
3/16" = 1'-0"







① FLOOR PLAN - SANITARY  
3/16" = 1'-0"







PLUMBING DESIGN LOADS	
TOTAL WATER SUPPLY FIXTURE UNITS (WSFU)	125
WATER SUPPLY DEMAND (GPM)	289
BUILDING WATER SERVICE SIZE (IN.)	2
TOTAL DRAINAGE FIXTURE UNITS (DFU)	131
SANITARY BUILDING SEWER SIZE (IN.)	6

GENERAL PLUMBING NOTES:

- A. ALL PLUMBING WORK SHALL COMPLY WITH THE KENTUCKY PLUMBING CODE AND ALL OTHER APPLICABLE LOCAL CODES AND REGULATIONS, AND SHALL BE ENFORCED BY THE PLUMBING CONTRACTOR AT ALL TIMES.

B. PROVIDE ALL MATERIAL, LABOR, PERMITS AND FEES NECESSARY TO INSTALL A COMPLETE WATER SUPPLY, WASTE AND VENT PIPING AS INDICATED BY THESE DRAWINGS AND SPECIFICATIONS, AND AS REQUIRED TO COMPLY WITH THE KENTUCKY PLUMBING CODE.

C. CONNECT ALL WATER, AND WASTE LINES ETC., FOR ALL FIXTURES. LINE SIZES SHALL BE NO SMALLER THAN THE STUB-OUT PROVIDED FOR THE FIXTURE.

D. PROVIDE ISOLATION VALVES AT ALL LOCATIONS REQUIRED BY THE KENTUCKY PLUMBING CODE, 2014 EDITION. PROVIDE ROOM ISOLATION VALVES AT ALL LOCATIONS. FOR DRAWING CLARITY, SOME REQUIRED VALVES MAY NOT BE INDICATED ON THESE PLANS.

E. FURNISH AND INSTALL READILY ACCESSIBLE BALL VALVES ON ALL WATER LINES TO INDIVIDUAL FIXTURES OR BANKS OF FIXTURES AS INDICATED. ALL SHUT-OFF VALVES SHALL BE INSTALLED FOR EASY ACCESS.

F. FURNISH ALL SHUT-OFF VALVES, PRESSURE REDUCING VALVES, TAIL PIECES, "P" TRAPS, BACK FLOW PREVENTION DEVICES, AND VACUUM BREAKERS AS REQUIRED BY CODES OR REQUIRED FOR PROPER INSTALLATION.

G. INSULATE ALL DOMESTIC WATER LINES. SEE SPECIFICATION SECTION 22 07 00.

H. ALL PIPING WITHIN PLENUM AREAS SHALL BE PLENUM RATED.

I. ALL WASTE AND VENT PIPING SHALL BE SCH 40 PVC WITH SOLVENT WELD JOINTS UNLESS NOTED OTHERWISE.

J. DOMESTIC SUPPLY PIPING BELOW SLAB IS TO BE SOFT TYPE "K" COPPER (NO JOINTS BELOW SLAB) WITH CONTINUOUS CLOSED CELL INSULATION AND HARD TYPE "L" ABOVE SLAB.

K. ALL PIPING IS TO BE HUNG OR FASTENED TO STRUCTURE WITH MANUFACTURED HANGERS AND SUPPORTS. PIPE STRAP IS NOT TO BE USED FOR PIPE SUPPORT OR ANCHORAGE.

L. FIXTURE STOPS SHALL BE 1/4 TURN TYPE. TRAPS SHALL BE 17GA. CHROME PLATED BRASS. SUPPLIES SHALL BE FLEXIBLE STAINLESS STEEL.

M. REFER TO ARCHITECTURAL SHEETS FOR EXACT LOCATION OF PLUMBING FIXTURES, WALL AND FLOOR FINISHES. CONTRACTOR SHALL COORDINATE ALL WORK REQUIRED WITH ALL OTHER DRAWINGS IN SET.
- N. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL WATER, SANITARY, VENT AND GAS PIPING, VALVES AND APPURTENANCES WITH RELATED STRUCTURAL, HVAC AND ELECTRICAL EQUIPMENT.

O. FOR CLARITY ON PLANS, NOT ALL VENT PIPING MAY BE SHOWN. VENT PIPING INDICATED ON PLANS SHOWS GENERAL GROUPING AND ROUTING. ROUTING SHALL BE AS REQUIRED BY CONSTRUCTION RESTRAINTS.

P. PIPING SHALL BE CONCEALED IN CHASE WALLS, CEILING, BELOW SLAB, ETC., UNLESS INDICATED OTHERWISE. PIPING SHOW OUTSIDE OF WALLS IS FOR CLARITY ONLY.

Q. CONTRACTOR TO COORDINATE ALL PATCHING AND REPAIRING OF WALLS, FLOORS, CEILINGS, ETC., WITH OTHER TRADES AND GENERAL WORK.

R. WHERE NOT OTHERWISE INDICATED, CONTRACTOR SHALL PROVIDE CLEANOUTS NOT MORE THAN 50 FEET APART, INCLUDING THE DEVELOPED LENGTH OF THE CLEANOUT PIPE IN SANITARY SEWER PIPING 4" AND SMALLER. WHERE NOT INDICATED, CLEANOUTS SHALL BE PLACED IN ACCORDANCE WITH SECTION 890.420 OF THE KENTUCKY PLUMBING CODE, CURRENT EDITION.

S. CONTRACTOR SHALL PROVIDE PIPE SLEEVES FOR ALL PLUMBING PIPING THAT PENETRATES FOUNDATIONS AND FLOORS. PENETRATION SHALL BE CODE COMPLIANT, ALLOW PIPE MOVEMENT AND SHALL BE WATERPROOF.

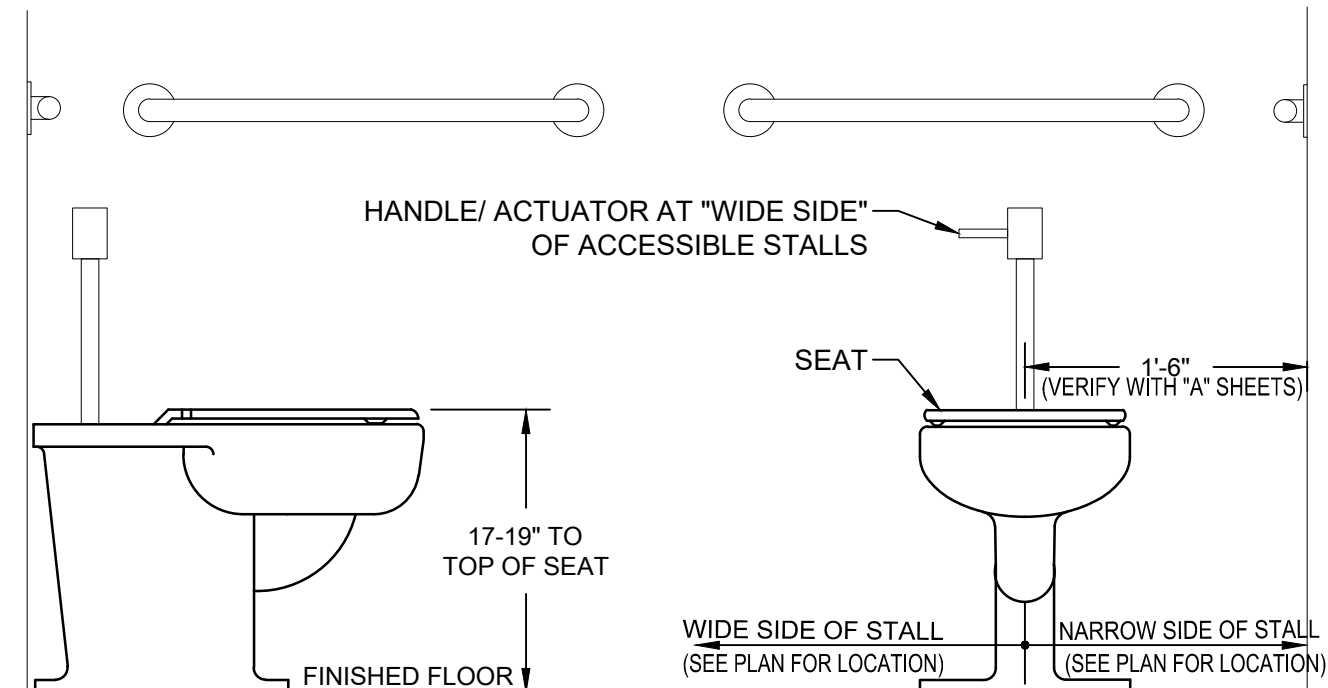
T. THE LAYOUTS SHOWN ON THESE SHEETS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION AND AS OTHER WORK WILL PERMIT. CHANGES FROM THESE DRAWINGS REQUIRED TO MAKE THIS WORK CONFORM TO THE BUILDING CONSTRUCTION OR OTHER WORK OF OTHER TRADES SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER, BUT ONLY WITH THE PRIOR APPROVAL OF THE A/E. ALL MAJOR CHANGES SHALL BE SHOWN ON SHOW DRAWINGS AND NOTED AS SUCH TO BE SUBMITTED BEFORE THE CHANGES ARE MADE.

U. CONTRACTOR SHALL BE RESPONSIBLE FOR AIR SEALING ALL PLUMBING PENETRATIONS IN THE AIR BARRIER.

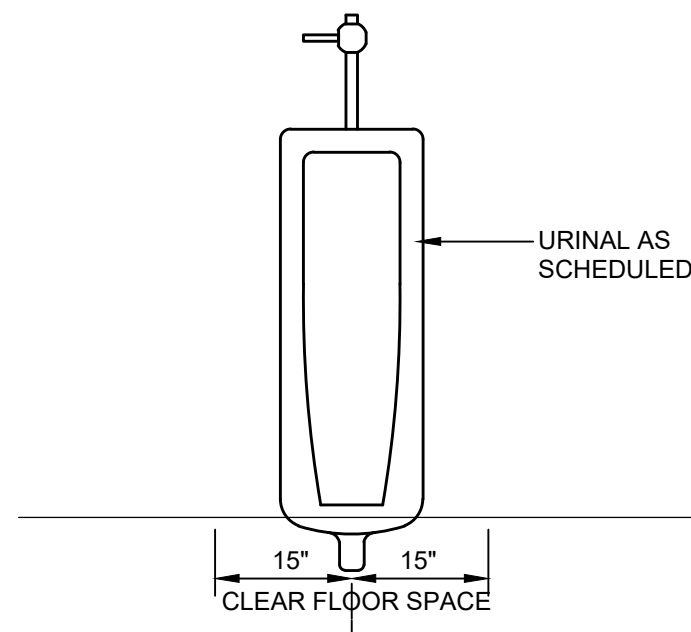
V. CONTRACTOR SHALL PROVIDE ALL FIRE-SEAL AND FIRE-CAULK AS REQUIRED.

W. CONTRACTOR SHALL PROVIDE AND INSTALL ALL FIXTURES, EQUIPMENT, AND APPURTENANCES AS INDICATED ON THESE PLANS.

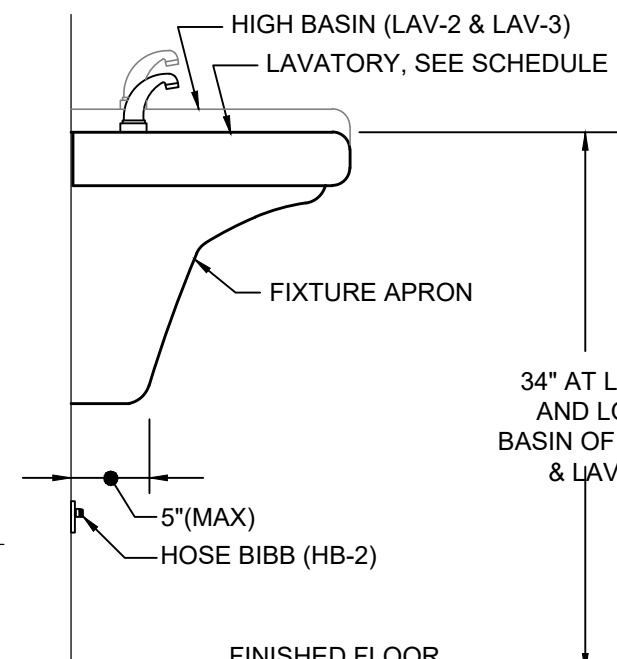
X. THE FIRST 10 FT. OF SANITARY SEWER PIPING AT KITCHEN FLOOR SINKS AND RECEPTORS RECEIVING DISHWASHER WASTE SHALL BE CAST-IRON.



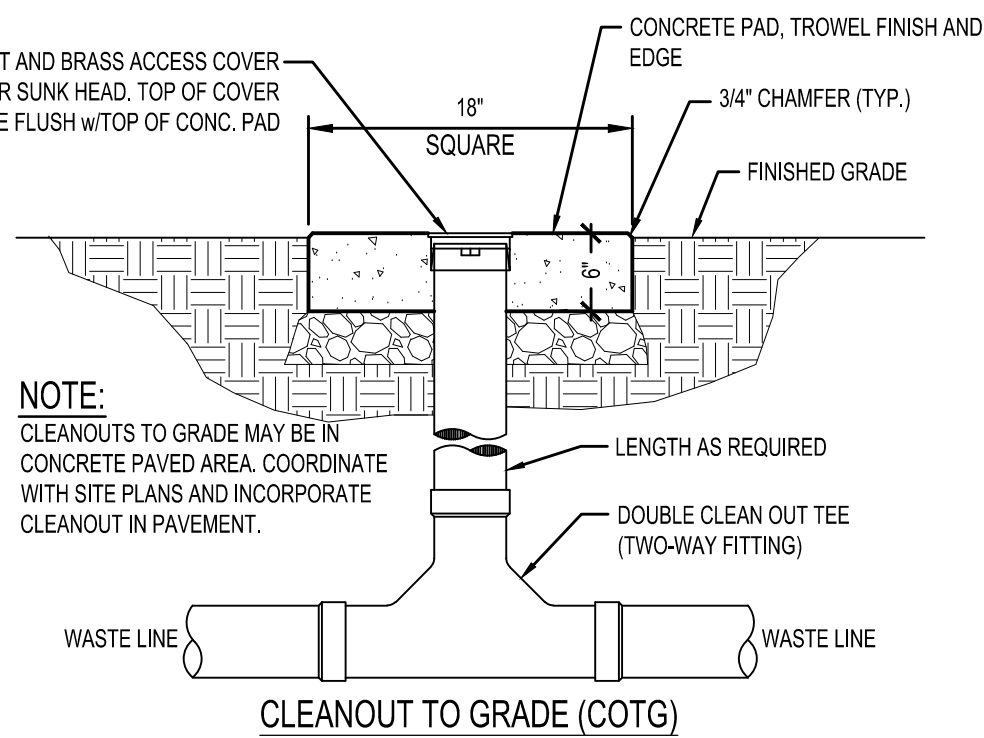
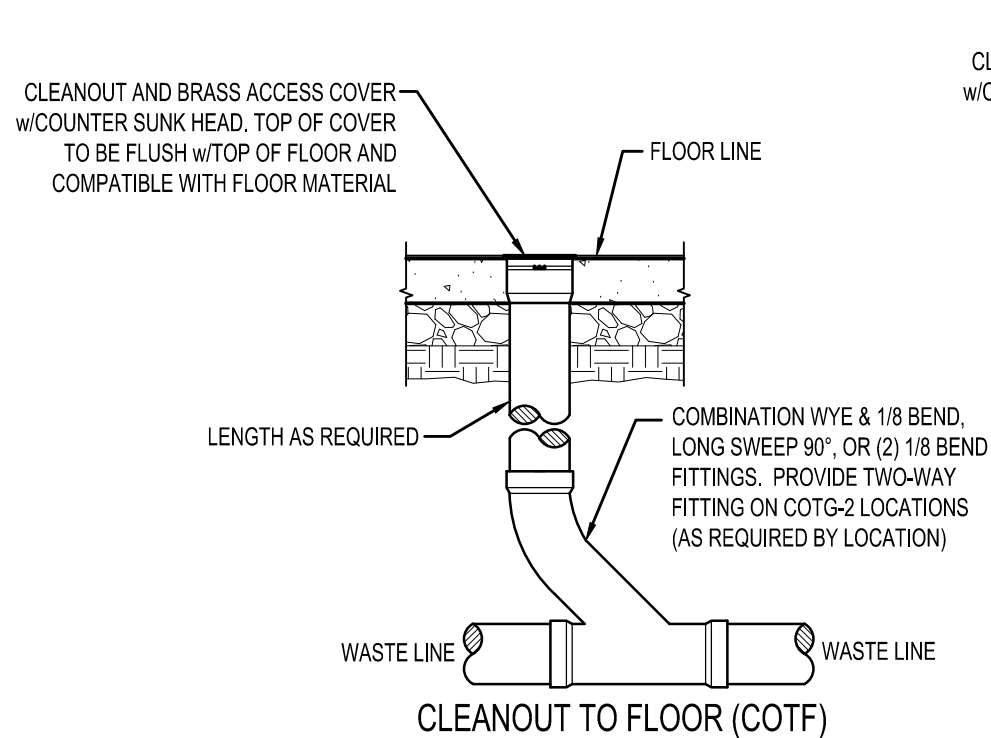
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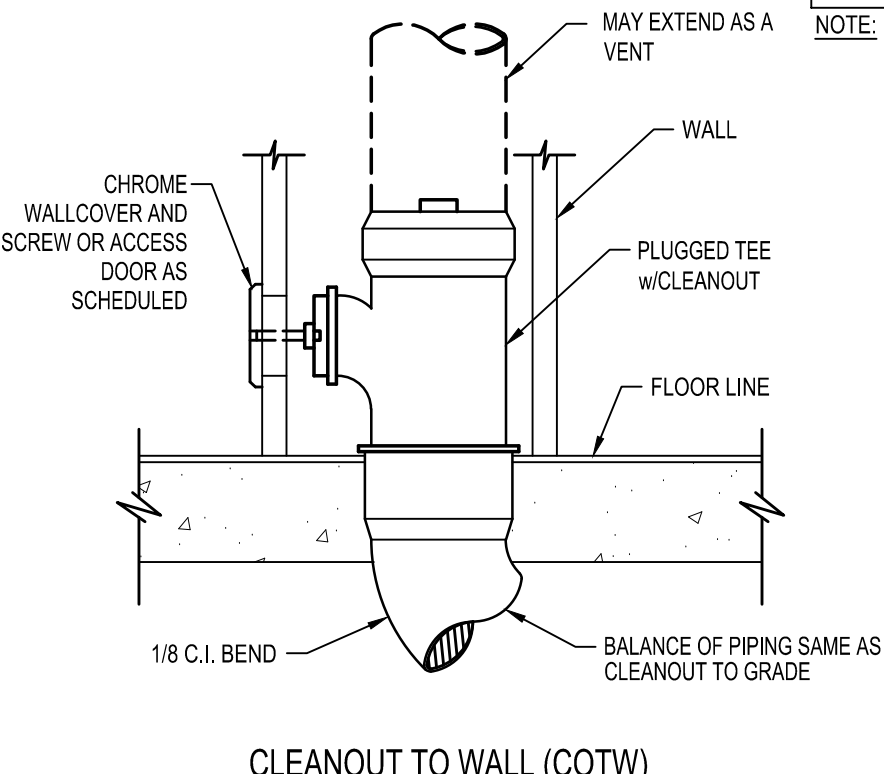
2 URINAL DETAIL  
P301 NOT TO SCALE



3 LAVATORY DETAIL  
P301 NOT TO SCALE



4 CLEANOUT DETAILS  
P301 NOT TO SCALE



PLUMBING LEGEND

----	COLD WATER SUPPLY PIPING
----	HOT WATER SUPPLY PIPING
----	HOT WATER RETURN PIPING
----	BELOW-GRADE SANITARY SEWER PIPING
----	VENT PIPING
----	GAS PIPING
----	GAS PIPING
----	WATER PIPING
----	ELBOW DOWN
----	ELBOW UP
----	BALL VALVE
----	BALANCING VALVE (w/ ISOLATION BALL VALVE)
----	CHECK VALVE
----	SOLENOID VALVE
----	CIRCULATOR PUMP
----	HOSE BIB
----	HYDRANT
----	ABOVE CEILING
----	BELOW FLOOR
----	DOWN
----	ABOVE FINISHED FLOOR
----	FINISHED FLOOR ELEVATION
----	EXISTING
----	COLD WATER SUPPLY
----	HOT WATER SUPPLY
----	HOT WATER RETURN
----	URINAL
----	LAVATORY
----	SINK
----	HAND SINK
----	MOP SINK
----	HS-X
----	ICE MAKER CONNECTION BOX
----	FLOOR DRAIN
----	TRENCH DRAIN
----	FLOOR SINK
----	CLEANOUT TO GRADE
----	CLEANOUT TO FLOOR
----	CLEANOUT TO WALL
----	CO-1
----	LINE CLEANOUT
----	WATER HEATER
----	DOMESTIC CIRCULATING PUMP
----	DOP-X
----	VENT-THRU-ROOF
----	DISHWASHING MACHINE
----	PRE-RINSE/WASH
----	ICE MACHINE
----	GT-X
----	SHTS.

NOTE: NOT ALL ABOVE MAY BE USED ON THIS PROJECT

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	FIXTURE/BOWL	FAUCET/FLUSH VALVE/TRIM	ADDITIONAL REMARKS
WC-1	ACCESSIBLE (NOMINAL 17" RIM HGT.), FLOOR MOUNTED, FLUSH VALVE TYPE, TOP-SPUD, ELONGATED BOWL WATER CLOSET, OPEN FRONT SEAT	KOHLER: K-96057	ZURN: ZER6000AV-CPM-WS1	1.6GPF BATTERY POWERED, INFRA-RED FLUSH VALVE (HANDLE ON WIDE SIDE AT ALL A.D.A. STALLS), ANIT-MICROBIAL OPEN FRONT SEAT w/CHECK HINGE, BEMIS: 2155SSCT
UR-1	ACCESSIBLE, FLOOR MOUNTED/FULL STALL, WASHOUT, TOP-SPUD, ELONGATED BOWL, FLUSH VALVE, URINAL	KOHLER: K-4920-T	ZURN: ZER6003AV-CPM-EWS	0.5GPF BATTERY POWERED, INFRA-RED FLUSH VALVE
LAV-1	NOMINAL 20"x14" RECTANGULAR, UNDER-MOUNT VITREOUS CHINA	AMERICAN STANDARD: 0614.300	SLOAN: EAF-150-BAT-ISM-CP-0.5GPM-MLM-FCT	0.5GPM LAMINAR FLOW PROVIDE WITH TMV-1. COLOR SHALL BE SELECTED BY A/E AND OWNER
LAV-2	2 USER, WALL MOUNTED, SOLID SURFACE LAVATORY SYSTEM, AUTOMATIC FAUCETS AND HAND DRYERS	BRADLEY: LVQD2C1WB1T3PCFBHD2AC DR2STAIN-EVSS-POLY	--	PROVIDE WITH THERMOSTATIC MIXING VALVE. COLOR SHALL BE SELECTED BY A/E AND OWNER
HS-1	WALL MOUNTED, 304 SERIES S.S., NOMINAL 17"x17"x13" HAND SINK WITH GOOSENECK FAUCET	ADVANCE TABCO: 7-PS-20	(FAUCET w/ SINK)	PROVIDE WITH QUARTER-TURN STOPS, BRAIDED S.S. SUPPLIES, 17GA. C.P. P-TRAP, OFFSET WASTE, ADA PIPE COVERS, PROVIDE WITH TMV-1
SK-1	WALL MOUNTED, 20GA. TYPE 304 S.S., GOOSENECK FAUCET	ADVANCE TABCO: DI-1-10	ADVANCE TABCO: K-52	PROVIDE WITH MANUFACTURER'S OPTIONAL 3-1/2" GOOSENECK FAUCET
SK-2	FREESTANDING, 16GA. TYPE 304 S.S., NOMINAL 46"x28", 24", SINGLE BASIN WITH SIDE DRAINBOARD	ADVANCE TABCO: 94-1-24-24-R or L	T&S BRASS: B-0133-ADF12-B	COORDINATE DRAINBOARD SIDE (L OR R), FAUCET WITH SWING SPOUT AND PRE-RINSE
SK-3	FREESTANDING, 16GA. TYPE 304 S.S., NOMINAL 103"x28", TRIPLE BASIN	ADVANCE TABCO: 94-3-54-18R or L	T&S BRASS: B-0133-ADF12-B	FAUCET WITH SWING SPOUT AND PRE-RINSE
MS-1	20"x28"x8" 16GA. STAINLESS STEEL, S.S. STRAINER	ADVANCE TABCO: 9-OP-28	CHICAGO FAUCETS: 897-CCP	PROVIDE WITH HOSE & HOSE HOLDER, MOP HANGAR, STAINLESS STEEL BUMPER AND WALL GUARDS
SH-1	ACCESSIBLE, PREFABRICATED, 18GA. STAINLESS STEEL, SURFACE MOUNTED SHOWER PANEL WITH FIXED AND HAND-HELD SHOWER	ZURN: Z7500-DV-HW	NON-POSITIVE HAND-HELD SHOWER ZURN: Z7000-H12	PRESSURE BALANCING MIXING VALVE, 1.5GPM FIXED SHOWERHEAD AND OPTIONAL 1.5GPM HAND-HELD SHOWER WITH NON-POSITIVE SHUT-OFF, PROVIDE WITH OPTIONAL 14GA. SHROUDS AS REQUIRED TO CONCEAL PIPING
HYD-1	EXPOSED, LOCKABLE BOX, NON-FREEZE, ANTI-SIPHON, SELF-DRAINING	ZURN: Z1320XL	--	--
HB-1	WHEEL-HANDLE, ANTI-SIPHON, SELF-DRAINING	ZURN: Z1341	--	COORDINATE LOCATION WITH A/E AND OWNER
HB-2	EXPOSED, ANTI-SIPHON, SELF-DRAINING	WOODFORD: 79	--	COORDINATE EXACT LOCATION WITH A/E & OWNER
ICB-1	RECESSED, PLASTIC BOX, BALL VALVE, WATER HAMMER ARRESTOR, ICE MAKER CONNECTION BOX	GUY GRAY: AB9700	--	COORDINATE LOCATION WITH A/E AND OWNER
WCB-1	RECESSED, PLASTIC BOX, BALL VALVES, WATER HAMMER ARRESTORS, WASHING MACHINE CONNECTION BOX	GUY GRAY: FR12SSHA	--	COORDINATE LOCATION WITH A/E AND OWNER
WHA-1	WATER HAMMER ARRESTOR, BELLOW TYPE	SIoux CHIEF: 650 SERIES	--	--

FLOOR DRAINS & CLEANOUTS SCHEDULE

TAG	DESCRIPTION	MANUFACTURER AND MODEL NO.	ADDITIONAL REMARKS
FD-1	FLOOR DRAIN, SQUARE NICKEL BRONZE STRAINER	SIoux CHIEF: 842-2PNQV	6" HEEL PROOF STRAINER
FD-2	FLOOR DRAIN, SQUARE NICKEL BRONZE STRAINER AND SEDIMENT BUCKET	SIoux CHIEF: 842-4PNQH-842UM	7" STRAINER, SEDIMENT SCREEN
FD-3	FLOOR DRAIN, SQUARE NICKEL BRONZE STRAINER AND FUNNEL	SIoux CHIEF: 842-2PNQ-863FN	6" STRAINER, BRONZE FUNNEL
FS-1	12"x12"x8" 16GA., TYPE 304 STAINLESS STEEL FLOOR SINK, 1/2 GRATE, SEDIMENT BUCKET	ZURN: Z1751-Y-2	STAINLESS STEEL INTERIOR DOME STRAINER, 1/2 GRATE, SEDIMENT BUCKET
TD-1	NOMINAL 12"x96" TRENCH DRAIN, 12GA. TYPE 304 S.S., PERFORATED S.S. GRATE	ZURN: ZS895-PS-DB	BOTTOM OUTLET WITH DOME STRAINER
FS-2	12"x12"x8" 16GA., TYPE 304 STAINLESS STEEL FLOOR SINK, FULL, HEEL-PROOF GRATE	ZURN: Z1751-HP	STAINLESS STEEL INTERIOR DOME STRAINER, FULL HEEL-PROOF GRATE
COTG	CLEANOUT-TO-GRADE, ADJUSTABLE ROUND COATED C.I., NICKEL COVER	SIoux CHIEF: 851-64NS	NICKEL BRONZE, SECURED TOP
COTF	FLOOR CLEANOUT, ADJUSTABLE ROUND COATED C.I., NICKEL COVER	SIoux CHIEF: 851-64NS	NICKEL BRONZE, SECURED TOP
COTW	PVC PLUG WITH ROUND STAINLESS STEEL COVER, CHROME BOLT	SIoux CHIEF: 870-96S	20GA. COVER, STAMPED WITH "CO"

GREASE INTERCEPTOR/TRAP SCHEDULE

TAG	LOCATION	SERVES	MINIMUM TOTAL WET CAPACITY (GAL.)	MINIMUM GREASE CAPACITY (GAL.)	MINIMUM SOLIDS CAPACITY (GAL.)	INLET / OUTLET SIZE (INCHES)
GT-1	EXTERIOR-KITCHEN	KITCHEN	1500	1379	318	6"

- NOTES:
- DESIGN BASE: SCHIER GB-1500.
  - UNIT SHALL HAVE MINIMUM 24" DIA. MAN ACCESSWAYS.
  - PROVIDE MAN ACCESSWAY EXTENSION(S) AS REQUIRED FOR PROPER INSTALLATION DEPTH.
  - INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS.
  - PROVIDE WITH MANUFACTURERS HIGH GROUND WATER ANCHOR KIT.

DOMESTIC CIRCULATOR PUMP SCHEDULE

TAG	DESIGN BASE (MAKE & MODEL)	SERVICE	TYPE	FLOW RATE (G.P.M.)	HEAD (FT.)	H.P.	RPM	VOLTS/PH/Hz
DCP-1	TACO, 013-IFC	DOMESTIC HOT WATER	WET ROTOR, INLINE	14	22	1/6	3250	115/1/60

- NOTES:
- ACCEPTABLE MANUFACTURERS: TACO, GRUNDFOS, BELL & GOSSET, & ARMSTRONG
  - BRONZE OR STAINLESS STEEL BODY, APPROVED FOR POTABLE WATER.
  - PROVIDE WITH INTEGRAL CHECK VALVE, UNIONS AND BALL ISOLATION VALVE(S).
  - PROVIDE WITH ADJUSTABLE TIMER PUMP CONTROL.

INSTANTANEOUS GAS-FIRED WATER HEATER SCHEDULE

TAG	TYPE	MIN./MAX. INPUT (MBH)	GALLONS PER MINUTE FLOW AT 50° F. RISE	GALLONS PER MINUTE FLOW AT 90° F. RISE	VOLTS/PH/Hz
WH-1	DIRECT VENT	15 - 300	11.6	6.5	120/1/60

- NOTES:
- SET TEMPERATURE AT 140 DEGREES F.
  - PROVIDE WITH CROSSESSOVER VALVE KIT WITH BYPASS.
  - PROVIDE WITH ISOLATOR VALVES.
  - PROVIDE WITH NEUTRALIZER KIT.
  - PROVIDE MANUFACTURER APPROVED COMBUSTION AIR AND FLUE VENT PIPING AND CONCENTRIC ROOF TERMINATION KIT.
  - INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS.

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	DESIGN BASE (MAKE & MODEL)	SERVICE	MINIMUM FLOW RATE (G.P.M.)	FLOW RATE AT 10 P.S.I. PRESSURE DROP (G.P.M.)
TMV-1	WATTS: USG-B	LAVS/HS-1	0.5	2
TMV-2	LEONARD: 270-LF	SK-1	0.25	5

- NOTES:
- COORDINATE EXACT LOCATION WITH A/E AND OWNER.
  - TMV-1 OUTLET TEMPERATURE SHALL BE SET AT 105 DEGREES F. AT LAV-1
  - TMV-1 OUTLET TEMPERATURE SHALL BE SET AT 115 DEGREES F. AT HS-1.
  - TMV-2 OUTLET TEMPERATURE SHALL BE SET AT 115 DEGREES F.
  - ACCEPTABLE MANUFACTURERS: BRADLEY, GUARDIAN, LEONARD, WATTS.

PLUMBING FIXTURE SERVICE SCHEDULE

TAG	WASTE	TRAP	VENT	COLD	HOT
WC-1	3"	INTEGRAL	2"	1"	--
UR-1	2"	INTEGRAL	1-1/2"	3/4"	--
LAV-1	1-1/2"	1-1/4"	1-1/4"	1/2"	1/2"
LAV-2	1-1/2"	1-1/4"	1-1/4"	1/2"	1/2"
HS-1	1-1/2"	1-1/4"	1-1/4"	1/2"	1/2"
SK-1	2"	1-1/2"	1-1/4"	1/2"	1/2"
SK-2	(FS-1)	(FS-1)	(FS-1)	1/2"	1/2"
SK-3	(FS-1)	(FS-1)	(FS-1)	1/2"	1/2"
MS-1	3"	3"	1-1/2"	1/2"	1/2"
SH-1	(FD-1)	(FD-1)	1/2"	1/2"	1/2"
HYD-1	--	--	--	3/4"	--
HB-1	--	--	--	3/4"	--
HB-2	--	--	--	3/4"	--
ICB-1	--	--	--	3/8"	--
WCB-1	2"	1-1/2"	1-1/4"	1/2"	1/2"
FD-1	2"	2"	1-1/2"	--	--
FD-2	3"	3"	1-1/2"	--	--
FD-3 *	2"	2"	1-1/2"	--	--
TD-1	4"	4"	2"	--	--
FS-1	4"	4"	2"	--	--
FS-2	4"	4"	2"	--	--

\* SHALL BE 4" AT WALK-IN COOLER/FREEZERS

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REVISION HISTORY			
MARK	DESCRIPTION	DATE	APPR
△			

ISSUED FOR  
ISSUED FOR BID

ACEE'S NEIGHBORHOOD MARKET & DELI  
1000 HOLIDAY INN LANE, FULTON, KY  
GOLIGHTLY & LONG PROPERTIES LLC  
5820 CAIRO ROAD  
PADUCAH, KY 42001

Non-Reduced Sheet Size: 24" x 36"

Full sized plans have been prepared using standard scales.  
Reduced size plans may not conform to standard scales.

DESIGNED ATH	DRAWN ATH
FIELD	FIELD BOOK

CHECKED  
MAR/SCH

CHECK DATE  
11/03/24

SHEET TITLE

GENERAL NOTES,  
DETAILS, AND  
SCHEDULES

PROJECT NO.  
23-7038

DRAWING ISSUED DATE:  
11/21/2024

SHEET

P301