



STEWART CREEK STATION



**W. Michael Stewart
Architect**

540 Grove Isle Cir. 103
Vero Beach, Florida 32962

STEWART CREEK STATION

SMYRNA, TENNESSEE

PROJECT DESCRIPTION		APPLICABLE CODES	CODE ANALYSIS	INDEX OF DRAWINGS	
PROJECT DESCRIPTION: MERCANTILE BUSINESS RETAIL BLDG. APPROX. 3,840.00 SQ. FT. & BLDG. PRE-ENGINEERED FRAME AND STEEL STRUCTURE, CONCRETE SLAB, AND EXTERIOR METAL STUD WALLS WITH BRICK AND STONE VENEER.		<ul style="list-style-type: none"> 2018 INTERNATIONAL BUILDING CODE (IBC) WITH LOCAL AMENDMENTS 2018 INTERNATIONAL RESIDENTIAL CODE WITH LOCAL AMENDMENTS 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 2018 INTERNATIONAL PLUMBING CODE (IPC) WITH LOCAL AMENDMENTS 2018 INTERNATIONAL MECHANICAL CODE (IMC) WITH LOCAL AMENDMENTS 2018 INTERNATIONAL FUEL GAS CODE (IFGC) WITH LOCAL AMENDMENTS 2017 NATIONAL ELECTRICAL CODE (NEC) WITH LOCAL AMENDMENTS 2018 INTERNATIONAL FIRE CODE (IFC) WITH LOCAL AMENDMENTS 2018 LIFE SAFETY CODE (NFPA 101) WITH LOCAL AMENDMENTS 	OCCUPANCY CLASSIFICATION MERCANTILE CONSTRUCTION TYPE TYPE 2B (UNPROTECTED) AND UNSPRINKLERED ALLOWABLE HEIGHT AND AREA HEIGHT - 20'-2" ALLOWED 40'-0" (TABLE 504.3) STORIES - ONE STORY (TABLE 504.4) BLDG. ARFA - 3,840.00 S.F. ALLOWED 12,500 S.F. (TABLE 506.2) MAXIMUM COMMON DISTANCE MAXIMUM TRAVEL DISTANCE 75 FEET 200 FEET FIRE WALL (BUILDING SEPARATION) NOT REQUIRED INTERIOR BEARING PARTITIONS NO RATING ROOF / CEILING NO RATING - NON COMBUSTABLE COLUMNS SUPPORTING ONLY NO RATING BEAMS, GIRDERS, TRUSSES, & ARCHES SUPPORTING ROOF ONLY NO RATING EXTERIOR WALL RATING NO RATING CORRIDOR PARTITIONS RESIST THE PASSAGE OF SMOKE STORAGE AREAS & ELECT. CLOS. RESIST THE PASSAGE OF SMOKE	GENERAL G1.00 GENERAL PROJECT DATA CIVIL C0.0 COVER SHEET C1.0 EXISTING CONDITIONS C2.0 SITE PLAN C2.1 GRADING & DRAINAGE PLAN C2.2 UTILITY PLAN C3.0 DETAILS C4.0 LANDSCAPING PLAN C5.0 EPSC - INTERMEDIATE MEASURES C5.1 EPSC - FINAL MEASURES C6.0 AUTOTURN STRUCTURAL S1.0 GENERAL NOTES S1.1 FOUNDATION & MEZZANINE PLANS S2.1 SECTIONS & DETAILS MECHANICAL M1.00 HVAC SPEC M1.01 HVAC FIRST FLOOR PLAN M1.02 HVAC MEZZ PLAN M1.03 GAS FIRST FLOOR PLAN M1.04 HOOD DETAILS M1.05 HVAC DETAILS M1.06 HVAC SCHEDULES PLUMBING P1.00 PLUMBING SPECS P1.01 FIRST FLOOR SANITARY PLAN P1.02 MEZZ. SANITARY PLAN P1.03 FIRST FLOOR WATER PLAN P1.04 SANITARY RISER P1.05 WATER RISER P1.06 PLUMBING DETAILS ELECTRICAL E1.00 FINISH PLAN E1.01 FINISH ELEVATIONS	
CONTACTS			VICINITY MAP		
ARCHITECTURAL	STRUCTURAL				
CIVIL	MECHANICAL & PLUMBING				
HUDDLESTON-STEEL ENGINEERING INC. 2115 N.W. BROAD STREET MURFREESBORO, TN. 37129 615-893-4084 PROJECT ENGINEER: BILL HUDDLESTON bhudd@hsengr.com	BEN ALLEN ALLEN ENGINEERING, LLC 870-733-7501 BRA0515@aol.com				
LANDSCAPING	ELECTRICAL				
HUDDLESTON-STEEL ENGINEERING INC. 2115 N.W. BROAD STREET MURFREESBORO, TN. 37129 615-893-4084 PROJECT ENGINEER: BILL HUDDLESTON bhudd@hsengr.com	PAUL GORDON GORDON ENGINEERING, LLC 901-483-0741 GORDONENGR@aol.com				

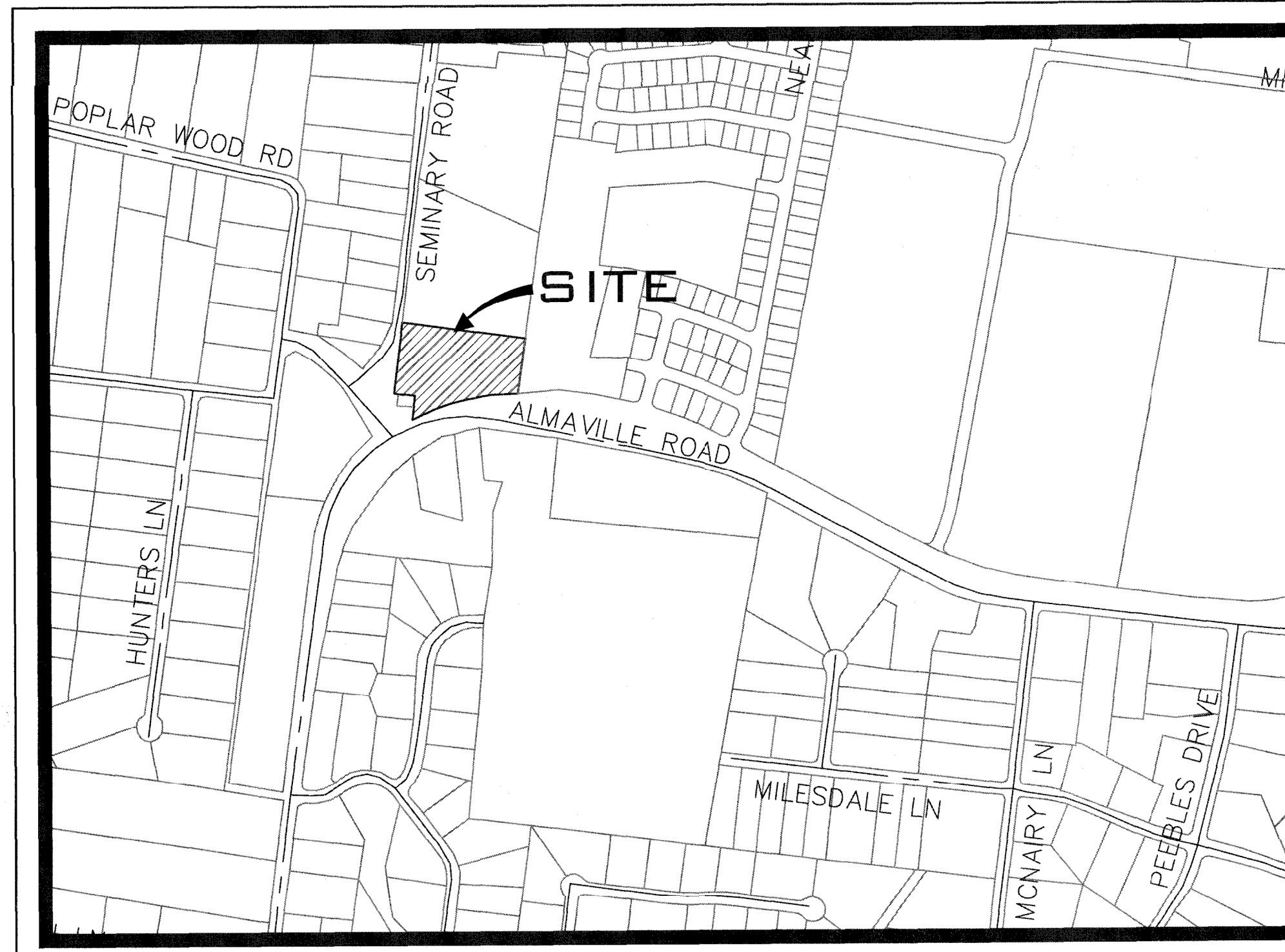
10/12/2023

G1.00

SITE PLAN

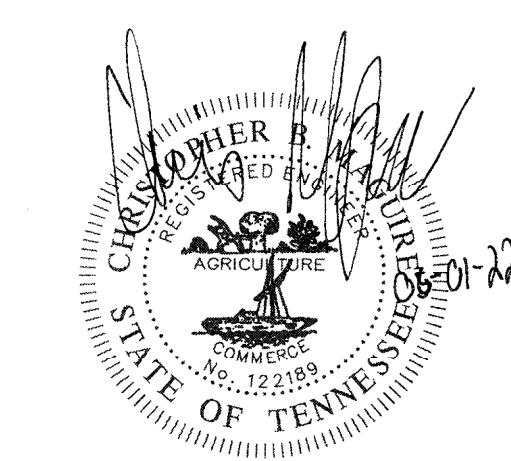
STEWART CREEK STATION

ALMAVILLE ROAD & SEMINARY ROAD, SMYRNA, TN



LOCATION MAP

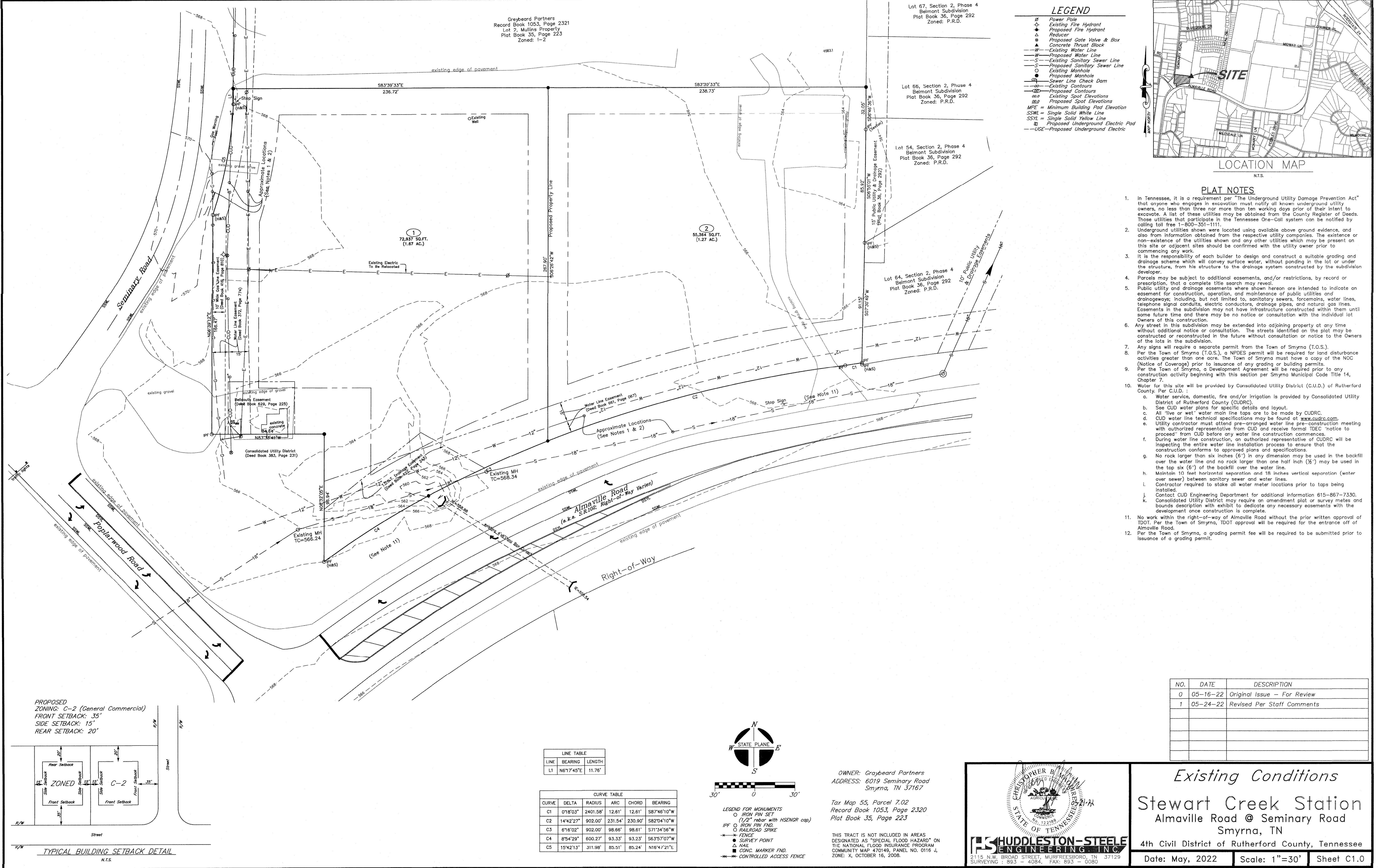
DRAWING REVISIONS		
NO.	DATE	DESCRIPTION
0	05-16-22	ORIGINAL ISSUE-FOR PLANNING SUBMITTAL
1	05-24-22	REVISED PER STAFF COMMENTS
2	06-01-22	REVISED PER STAFF COMMENTS

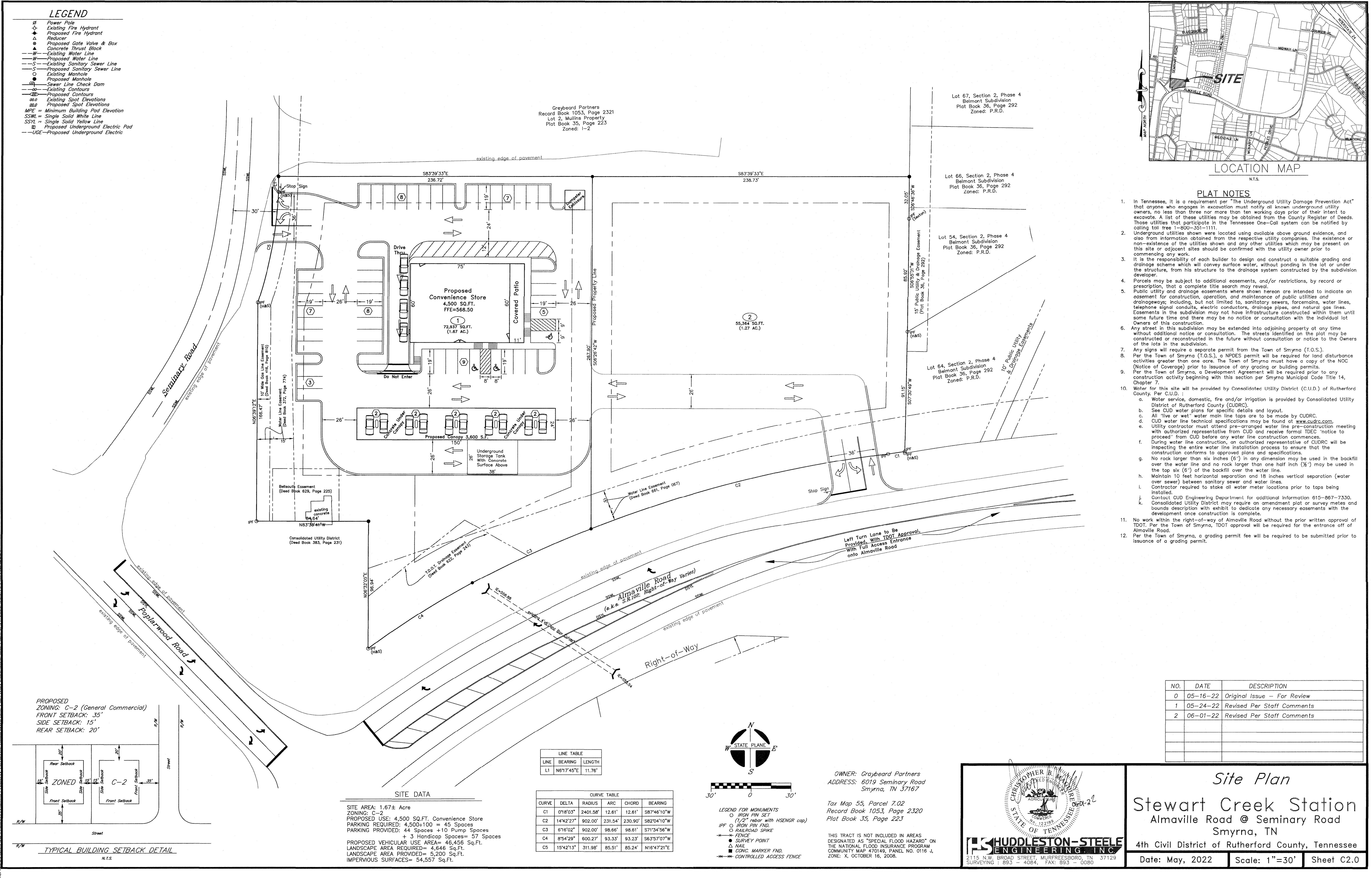


HS HUDDLESTON-STEELE
ENGINEERING, INC.

2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
SURVEYING : 893 - 4084, FAX: 893 - 0080

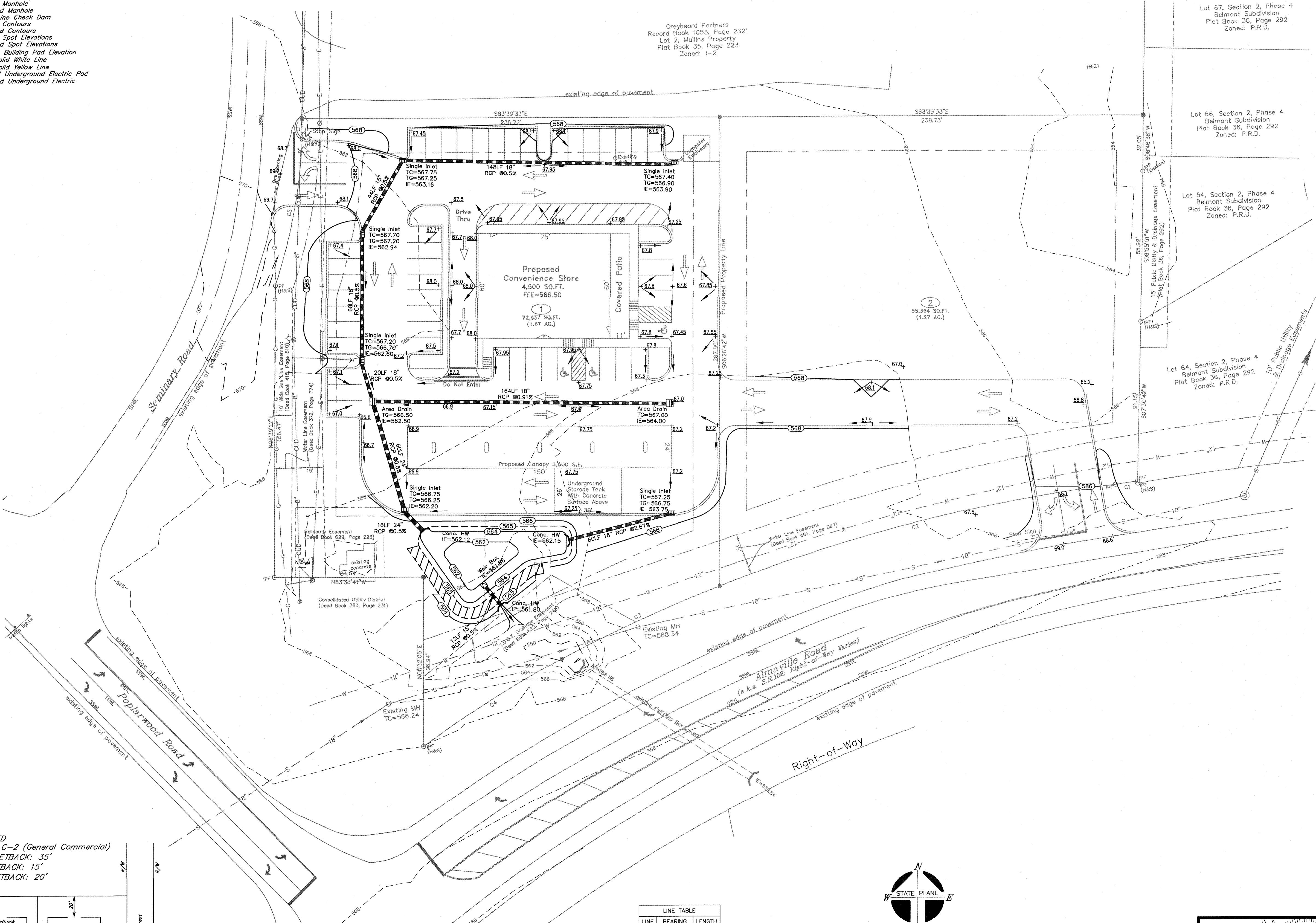
SITE PLANS
Stewart Creek Station SHEET:CO.0





LEGEND

- Power Pole
- △ Existing Fire Hydrant
- ◆ Proposed Fire Hydrant
- △ Existing Gate Valve & Box
- ▲ Proposed Gate Valve & Box
- Concrete Thrust Block
- Existing Water Line
- Proposed Water Line
- Existing Sewer Line
- Proposed Sanitary Sewer Line
- Existing Manhole
- Proposed Manhole
- Existing Sewer Line Check Dam
- Proposed Sewer Line Check Dam
- Proposed Contours
- 0.00 Existing Spot Elevations
- 0.00 Proposed Spot Elevations
- MPE = Minimum Building Pad Elevation
- SPE = Single Solid Yellow Line
- Proposed Underline Electric Pad
- UGE—Proposed Underline Electric



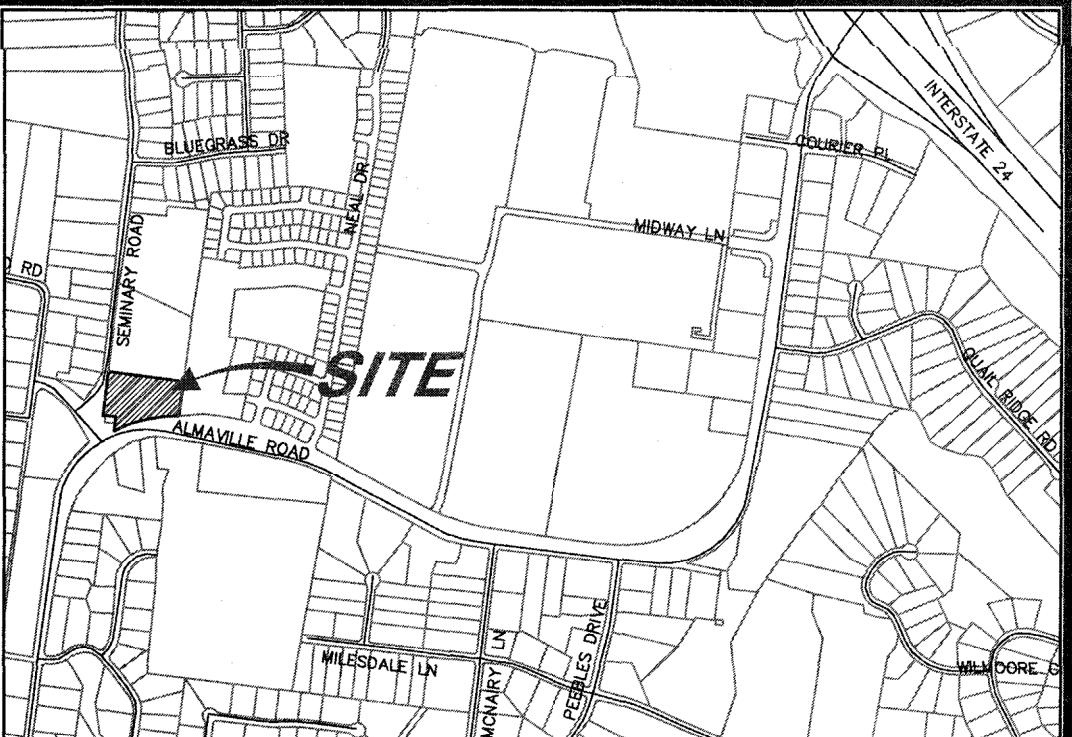
Greybeard Partners
Record Book 1053, Page 2321
Lot 2, Mullins Property
Plot Book 35, Page 223
Zoned: I-2

Lot 67, Section 2, Phase 4
Belmont Subdivision
Plot Book 36, Page 292
Zoned: P.R.D.

Lot 66, Section 2, Phase 4
Belmont Subdivision
Plot Book 36, Page 292
Zoned: P.R.D.

Lot 54, Section 2, Phase 4
Belmont Subdivision
Plot Book 36, Page 292
Zoned: P.R.D.

Lot 64, Section 2, Phase 4
Belmont Subdivision
Plot Book 36, Page 292
Zoned: P.R.D.


PLAT NOTES

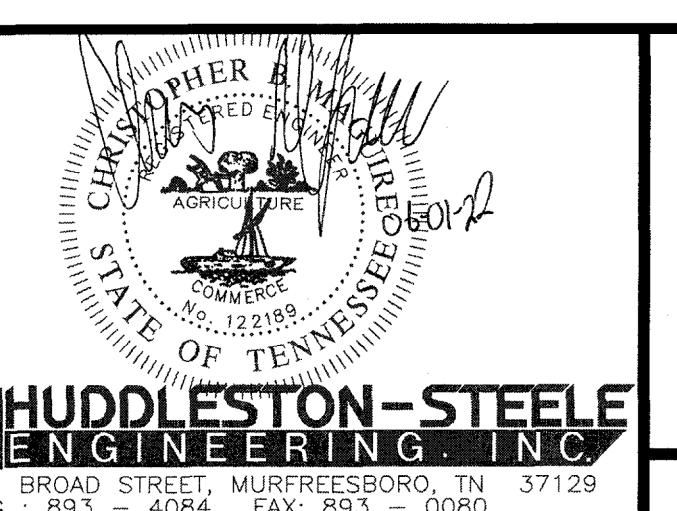
- In Tennessee, it is a requirement per "The Underground Utility Damage Prevention Act" that anyone who engages in excavation must notify all known underground utility owners, no later than ten days prior to the start of their intended excavation. A list of these utilities may be obtained from the County Register of Deeds. Those utilities that participate in the Tennessee One-Call system can be notified by calling toll free 1-800-351-1111.
- Underground utilities shown were located using available above ground evidence, and also from information obtained from the respective utility companies. The existence or non-existence of these utilities shown and any other utilities which may be present on this site or adjacent sites should be confirmed with the utility owner prior to commencing any work.
- It is the responsibility of each builder to design and construct a suitable grading and drainage scheme which will convey surface water, without ponding in the lot or under structure, from his structure to the drainage system constructed by the subdivision developer.
- Parcels may be subject to additional easements, and/or restrictions, by record or prescription, that a complete title search may reveal.
- Public utility and drainage easements where shown herein are intended to indicate the location of such easements for construction, operation, and maintenance of public utilities and drainage systems, but do not limit the use of such easements for private water lines, telephone signal conduits, electric conductors, drainage pipes, and natural gas lines. Easements in the subdivision may not have infrastructure constructed within them until some future time and there may be no notice or consultation with the individual lot owners of this construction.
- Proprietary easements may be extended into adjoining property at any time without additional notice or consultation. The streets identified on the plat may be constructed or reconstructed in the future without consultation or notice to the Owners of the lots in the subdivision.
- Any signs will require a separate permit from the Town of Smyrna (T.O.S.).
- Per the Town of Smyrna (T.O.S.), an NPDES permit will be required for land disturbance activities greater than one acre. The Town of Smyrna must receive a copy of the NOD (Notice of Construction) prior to issuance of any grading or building permits.
- Per the Town of Smyrna, a Development Agreement will be required prior to any construction activity beginning with this section per Smyrna Municipal Code Title 14, Chapter 7.
- Water for this site will be provided by Consolidated Utility District (C.U.D.) of Rutherford County. Per C.U.D.
 - water service, domestic, fire and/or irrigation is provided by Consolidated Utility District of Rutherford County (CUDRC).
 - See CUD water plans for specific details and layout.
 - All "live or wet" water main line tops are to be made by CUDRC.
 - CUD water line technical specifications may be found at www.cudrc.com.
 - Utility contractor must attend pre-planned water line pre-construction meeting with CUDRC and CUDRC engineer prior to proceeding with any work. CUDRC notice to proceed from CUD before any water line construction commences.
 - During water line construction, an authorized representative of CUDRC will be inspecting the entire water line installation process to ensure that the construction conforms to approved plans and specifications.
 - No rods larger than six inches (6") in any dimension may be used in the backfill over larger pipe sizes. No rods smaller than one half inch (1/2") may be used in the top six (6') of the backfill over the water line.
 - Maintain 10 foot horizontal separation and 18 inches vertical separation (water over sewer) between sanitary sewer and water lines.
 - Contractor required to stake all water meter locations prior to tops being installed.
 - Contact CUD Engineering Department for additional information 615-867-7330.
 - Consolidated Utility District may require an amendment plat or survey metes and bounds description with exhibit to dedicate any necessary easements with the development once construction is complete.
- No work within the right-of-way of Almaville Road without the prior written approval of TDOT. Per the Town of Smyrna, TDOT approval will be required for the entrance off of Almaville Road.
- Per the Town of Smyrna, a grading permit fee will be required to be submitted prior to issuance of a grading permit.

NO.	DATE	DESCRIPTION
0	05-16-22	Original Issue - For Review
1	05-24-22	Revised Per Staff Comments
2	06-01-22	Revised Per Staff Comments

Grading & Drainage Plan

Stewart Creek Station
Almaville Road @ Seminary Road
Smyrna, TN

4th Civil District of Rutherford County, Tennessee



H SHUDDLESTON-STEELE ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
SURVEYING : 893 - 4084, FAX: 893 - 0080

Date: May, 2022 Scale: 1"=30' Sheet C2.1

LEGEND

☐ Existing Pole
 ☐ Existing Fire Hydrant
 ☐ Proposed Fire Hydrant
 ☐ Reducer
 △ Proposed Gate Valve & Box
 ▲ Concrete Thrust Block
 - Existing Water Line
 -W- Proposed Water Line
 -S- Existing Sanitary Sewer Line
 -P- Proposed Sanitary Sewer Line
 ○ Existing Manhole
 ● Proposed Manhole
 ☐ Existing Sewer Line Check Darn
 ☐ Existing Utility
 ☐ Existing Contours
 ☐ Existing Spot Elevations
 ☐ Existing Proposed Spot Elevations
 MPE = Minimum Building Pad Elevation
 SSWL = Single Solid White Line
 SSYL = Single Solid Yellow Line
 ■ Proposed Underground Electric Pad
 ☐ UGE - Proposed Underground Electric

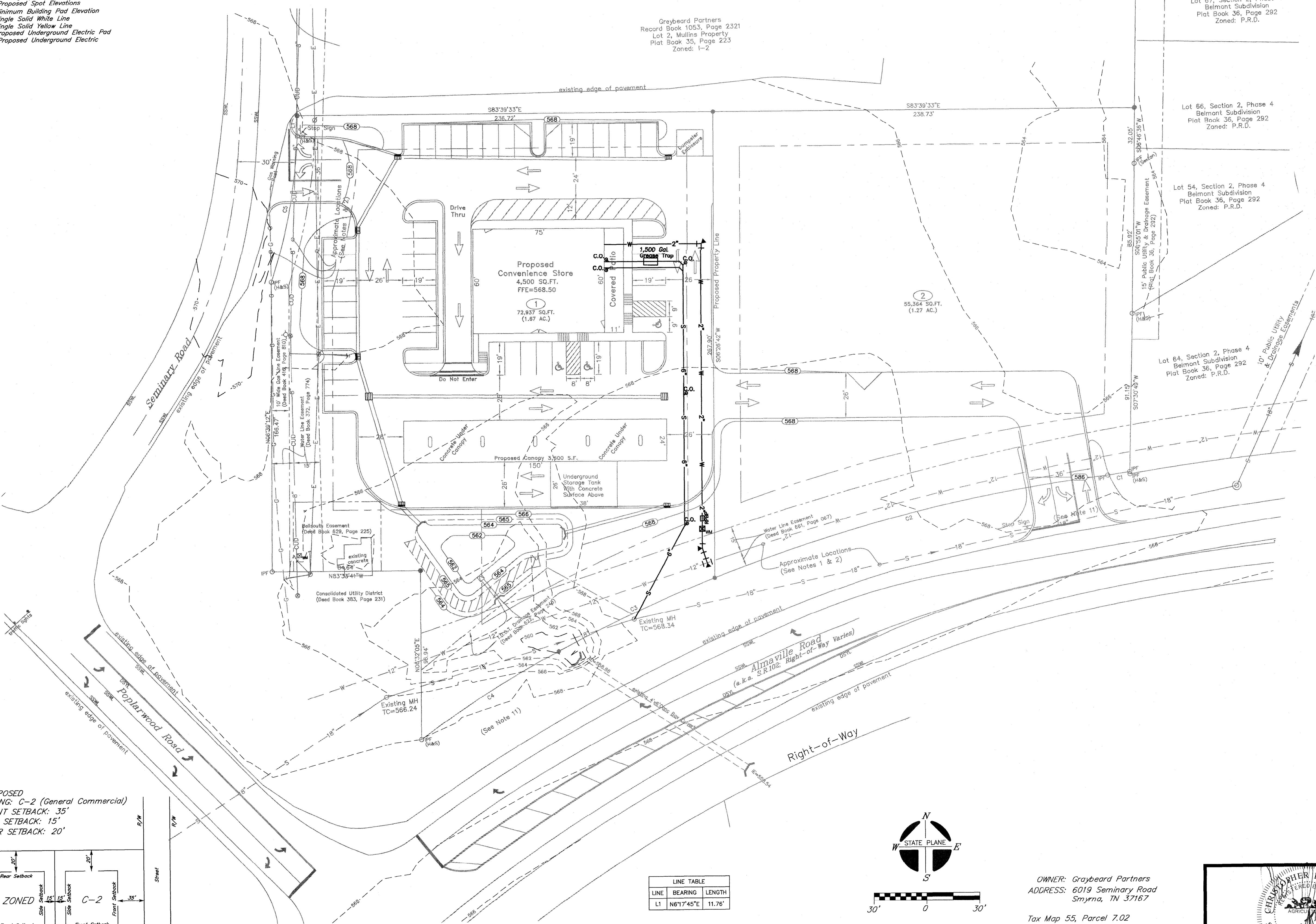
Record Book 1053, Page 2321

Lot 2, Mullins Property

Plat Book 35, Page 223

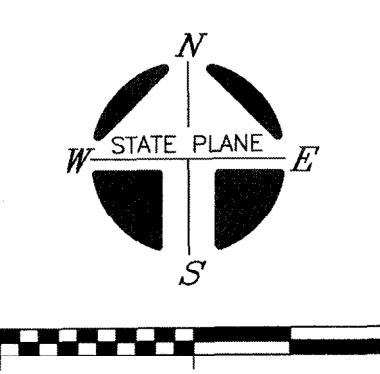
Zoned: I-2

Greybeard Partners
Record Book 1053, Page 2321
Lot 2, Mullins Property
Plat Book 35, Page 223
Zoned: I-2



LINE TABLE		
LIN	BEARING	LENGTH
L1	N61°7'45"E	11.76'

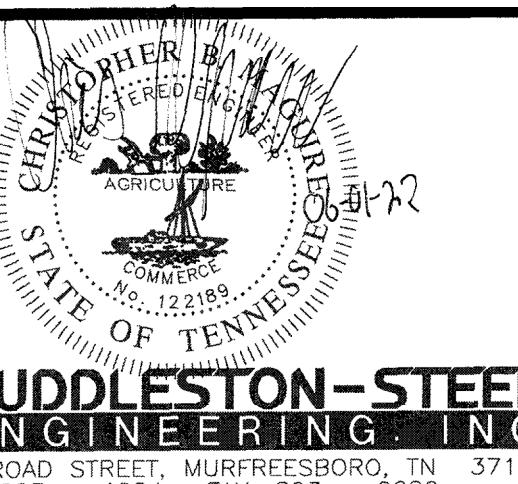
CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD	BEARING
C1	016°0'3"	2401.58'	12.61'	58746°10"W	
C2	144°2'27"	902.00'	231.54'	58204°10"W	
C3	616°0'2"	902.00'	98.66'	57734°56"W	
C4	854°2'9"	600.27'	93.33'	5635707°W	



OWNER: Graybeard Partners
ADDRESS: 6019 Seminary Road
Smyrna, TN 37167

Tax Map 55, Parcel 7.02
Record Book 1053, Page 2320
Plat Book 35, Page 223

THIS TRACT IS NOT INCLUDED IN AREAS DESIGNATED AS "SPECIAL FLOOD HAZARD" ON THE NATIONAL FLOOD INSURANCE PROGRAM COMMUNITY MAP 470149, PANEL NO. 0116 J, ZONE X, OCTOBER 16, 2008.



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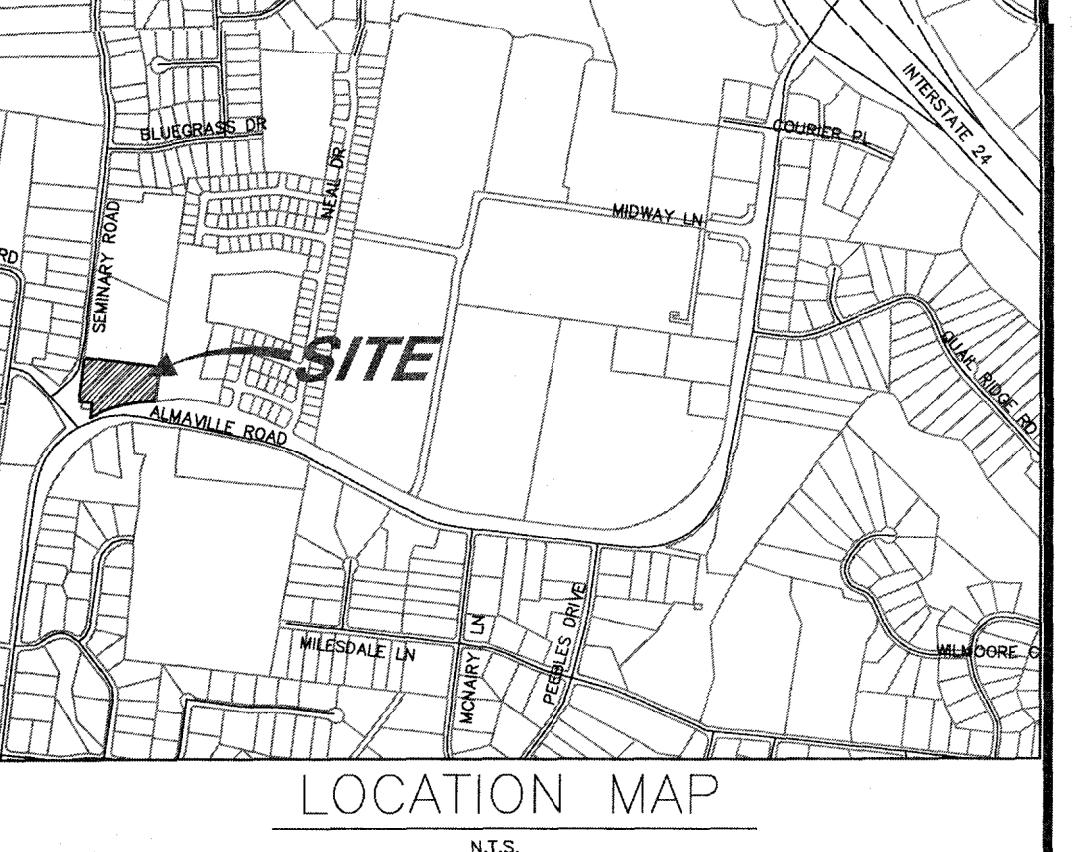
NO.	DATE	DESCRIPTION
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1	05-24-22	Revised Per Staff Comments
2	06-01-22	Revised Per Staff Comments

Utilities Plan

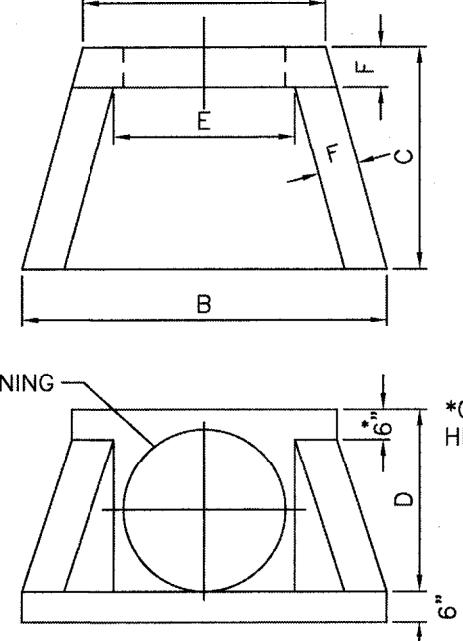
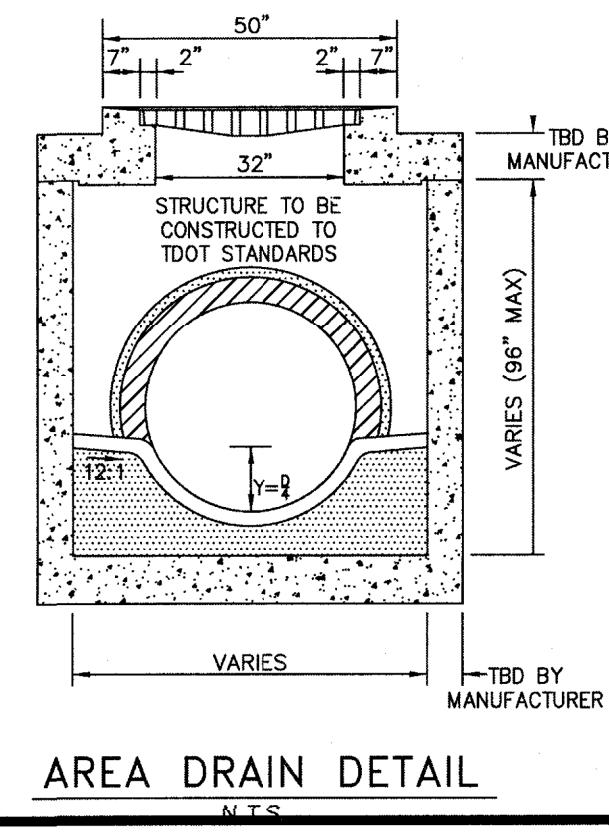
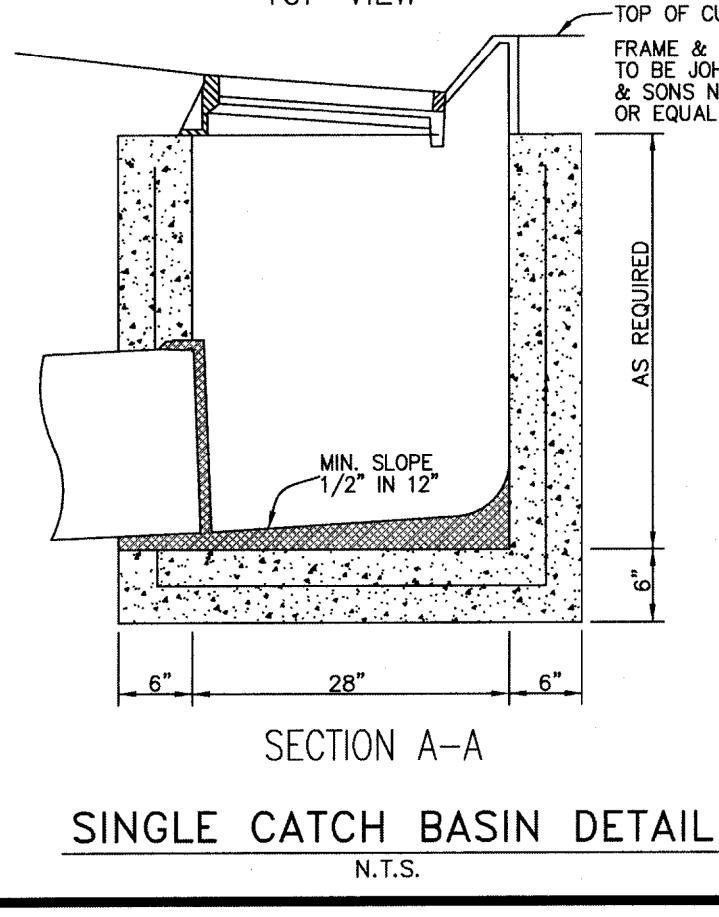
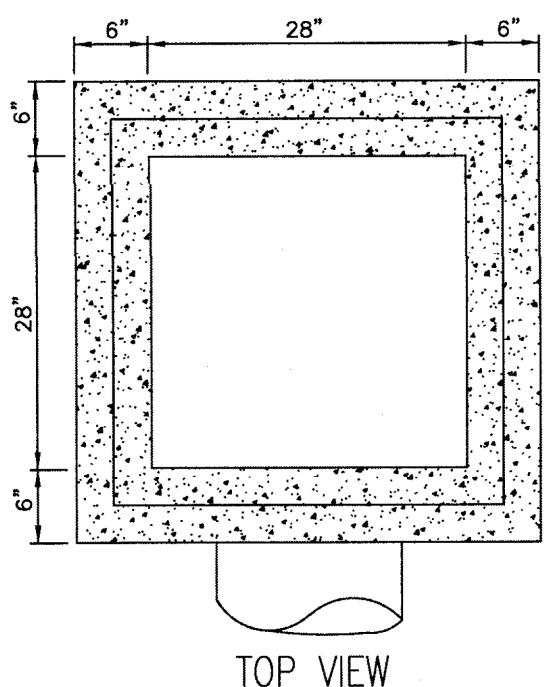
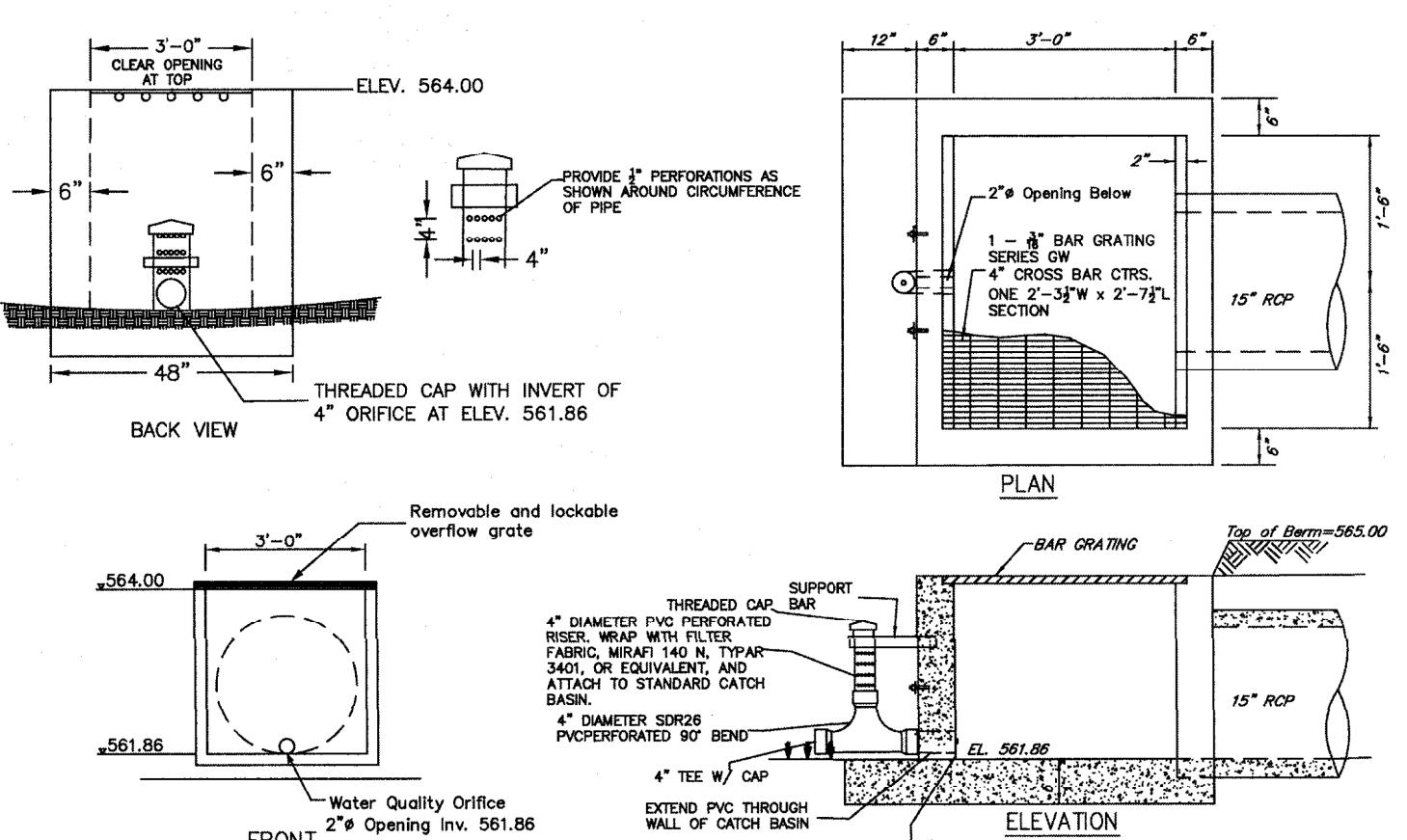
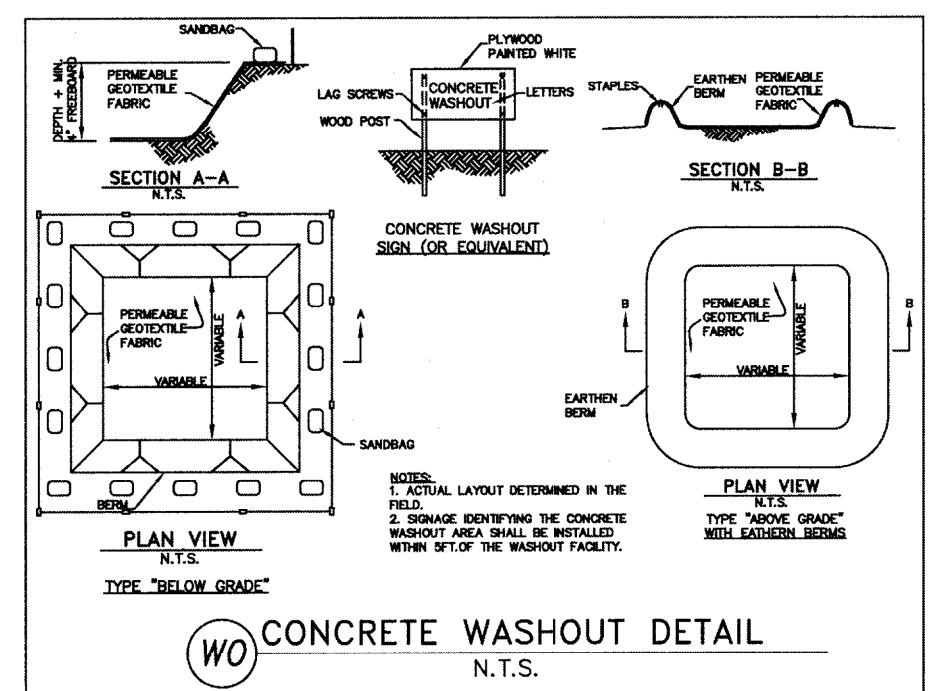
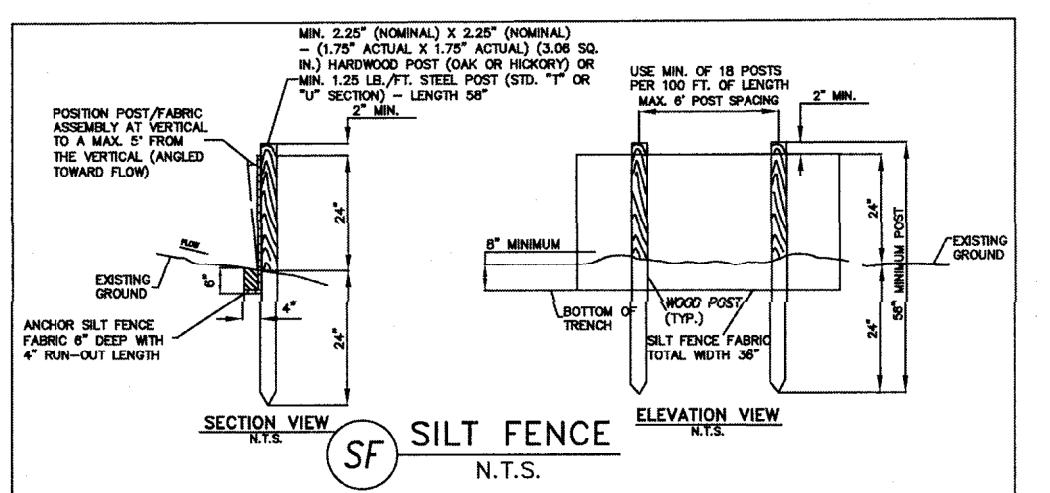
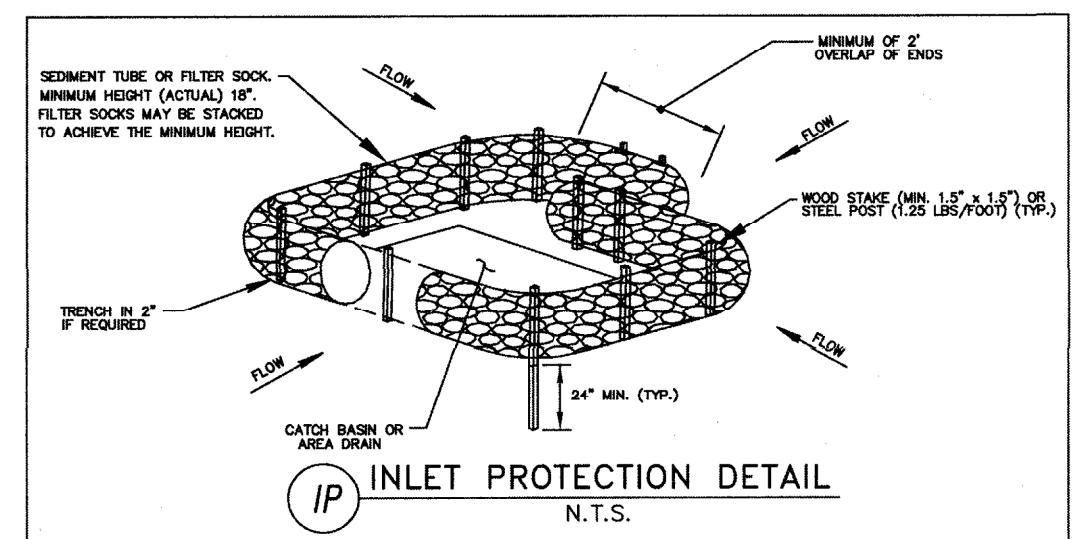
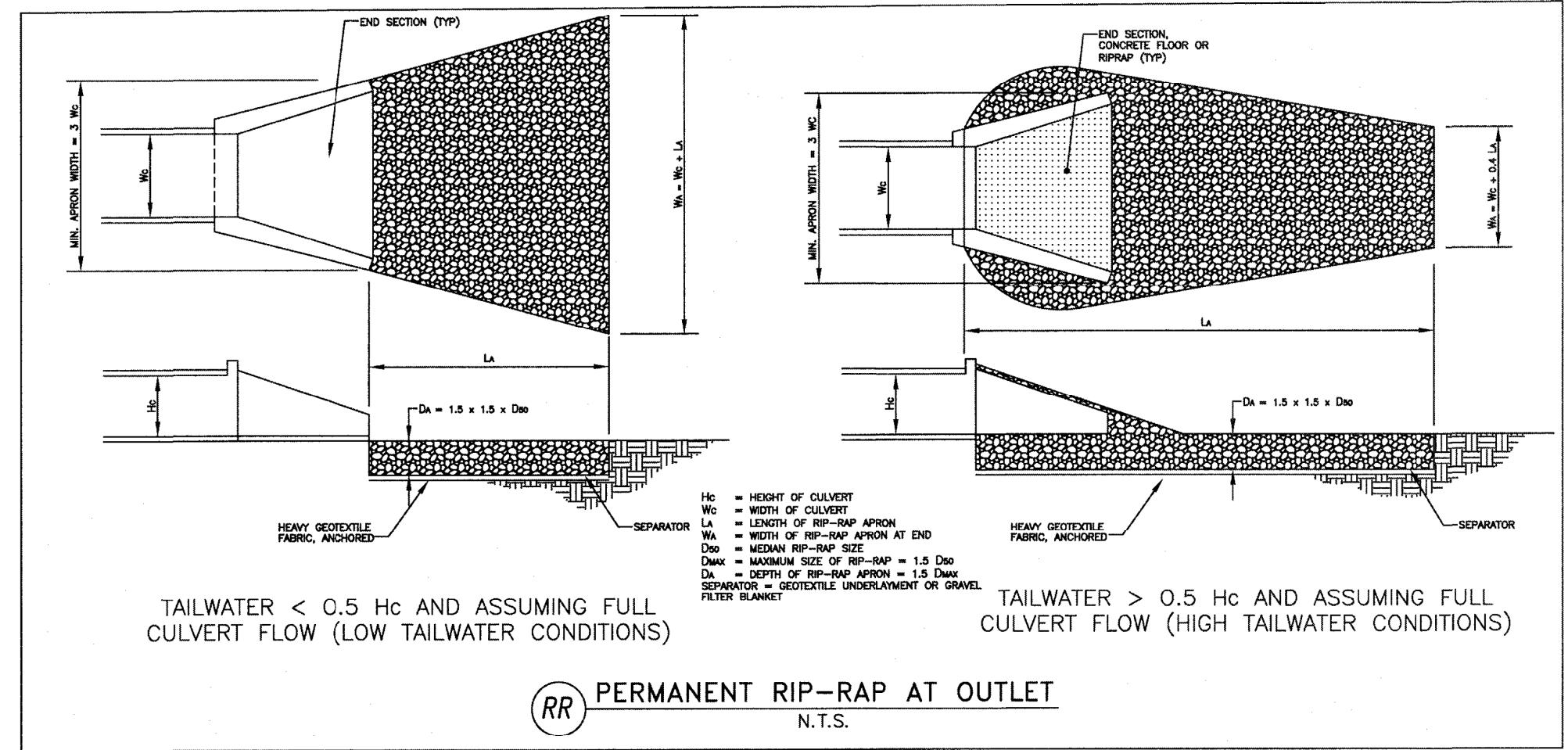
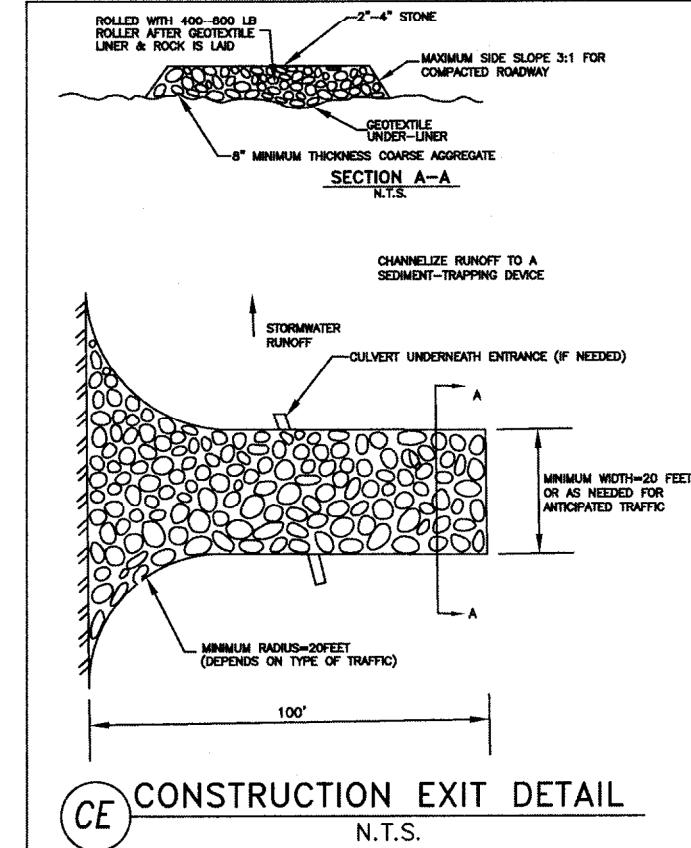
Stewart Creek Station
Almaville Road @ Seminary Road
Smyrna, TN

4th Civil District of Rutherford County, Tennessee

Date: May, 2022 Scale: 1"=30' Sheet C2.2


PLAT NOTES

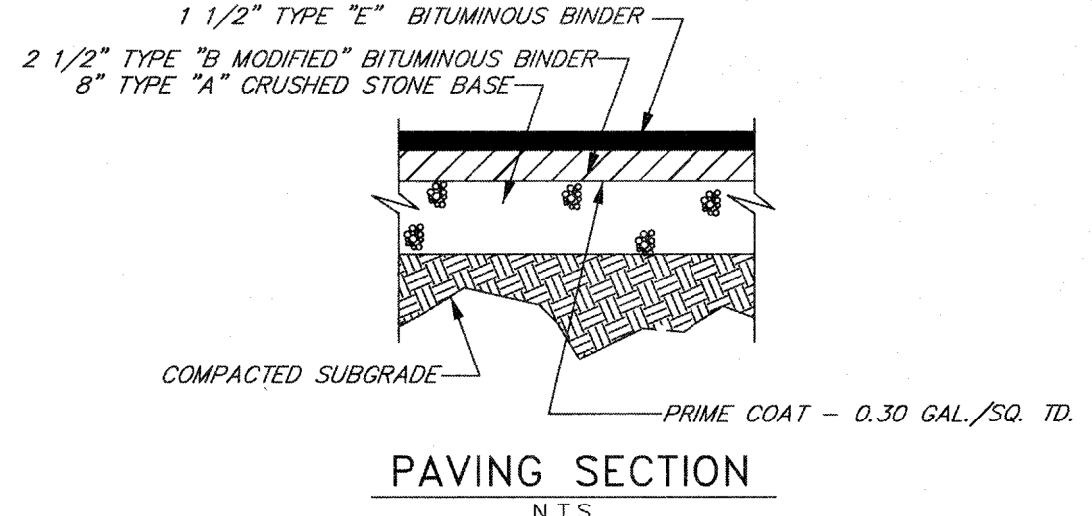
- In Tennessee, it is a requirement per "The Underground Utility Damage Prevention Act" that anyone who engages in excavation must notify all known underground utility owners, no less than three nor more than ten working days prior to their intent to excavate. A list of these utilities may be obtained from the County Register of Deeds. To use this map, the user may call the Tennessee One-Call system can be notified by calling toll free 1-800-351-1111.
- Underground utilities shown were located using available above ground evidence, and also from information obtained from the respective utility companies. The existence or non-existence of the utilities shown and any other utilities which may be present on this site or adjoining sites should be confirmed with the utility owner prior to commencement of work.
- It is the responsibility of each builder to design and construct a suitable grading and drainage scheme which will convey surface water, without ponding in the lot or under the structure, from its structure to the drainage system constructed by the subdivision developer.
- Plans may be subject to additional easements, and/or restrictions, by record or prescription, that a complete title search may reveal.
- Public utility and drainage easements as shown herein are intended to indicate an easement for construction, operation, and maintenance of public utilities and drainageways, including, but not limited to, sanitary sewers, force mains, water lines, telephone lines, communication conductors, drainage pipes, and natural gas lines. Easements in this subdivision may not have been infrastructure constructed within them until some future time and there may be no notice or consultation with the individual lot Owners of this construction.
- Any street in this subdivision may be extended into adjoining property at any time without additional notice or consultation. The streets identified on the plat may be constructed in the future without consultation or notice to the Owners of the lots in the subdivision.
- Any signs will require a separate permit from the Town of Smyrna (T.O.S.).
- For the Town of Smyrna (T.O.S.), a NPDES permit will be required for land disturbance activities greater than one acre. The Town of Smyrna must have a copy of the NOC (Notice of Coverage) prior to issuance of any grading or building permits.
- For the Town of Smyrna, a Development Agreement will be required prior to any construction activity beginning with this section per Smyrna Municipal Code Title 14, Chapter 7.
- Water for this site will be provided by Consolidated Utility District (C.U.D.) of Rutherford County. Per C.U.D.:
 - Water service, domestic, fire and/or irrigation is provided by Consolidated Utility District of Rutherford County (CUDRC).
 - Site C.U.D. will plan specific details and layout.
 - All "live" or "dead" water main line taps are to be made by CUDRC.
 - CUD water line technical specifications may be found at www.cudrc.com.
 - Utility contractor must attend pre-arranged water line pre-construction meeting with authorized representative from CUDRC and receive formal TDEC "notice to proceed" from CUDRC before any water line work commences.
 - During water line construction, an authorized representative of CUDRC will be inspecting the entire water line installation process to ensure that the construction conforms to approved plans and specifications.
 - No rock larger than six inches (6") in any dimension may be used in the backfill over the water line and no rock larger than one half inch (½") may be used in the top six (6") of the backfill over the water line.
 - Maintain 10 feet horizontal separation and 18 inches vertical separation (water over air) between sanitary sewer and water lines.
 - Contractor required to stake all water meter locations prior to taps being installed.
 - Contact CUD Engineering Department for additional information 615-867-7330.
 - Consolidated Utility District may require amendment plot or survey metes and bounds description to include and dedicate any necessary easements with the development once construction is complete.
- No work within the right-of-way of Almaville Road without the prior written approval of TDOT. Per the Town of Smyrna, TDOT approval will be required for the entrance off of Almaville Road.
- Per the Town of Smyrna, a grading permit fee will be required to be submitted prior to issuance of a grading permit.



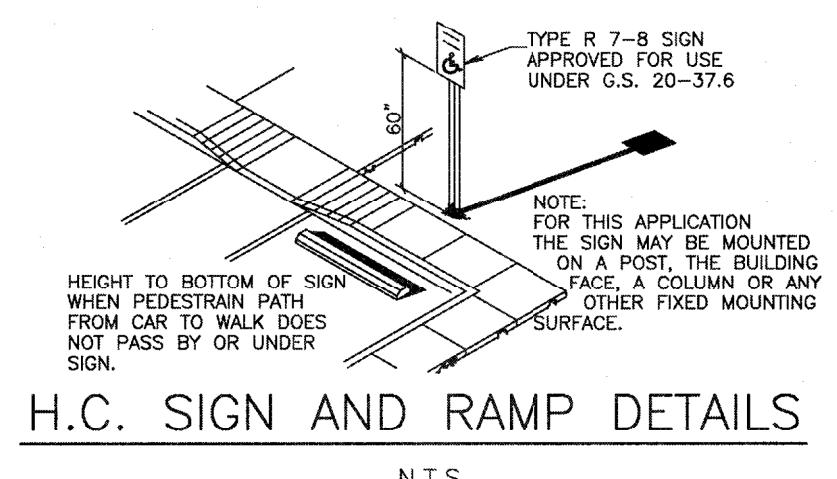
SIZE	AW	BW	CW	DW
A	32"	48"	80"	99"
B	48"	72"	102"	120"
C	30"	44"	54"	56"
D	26"	36"	60"	66"
E	24"	36"	64"	83"
F	6"	8"	8"	8"
MAX. OPENING	22"	32"	55"	75"
WT/*	1,380	3,100	8,100	11,400

General Notes:
 1. Minimum Reinforcing: Wire Reinforcement 4x4 W7xW7
 2. F'c = 4,500 PSI.
 3. Fy = 60 KSI.

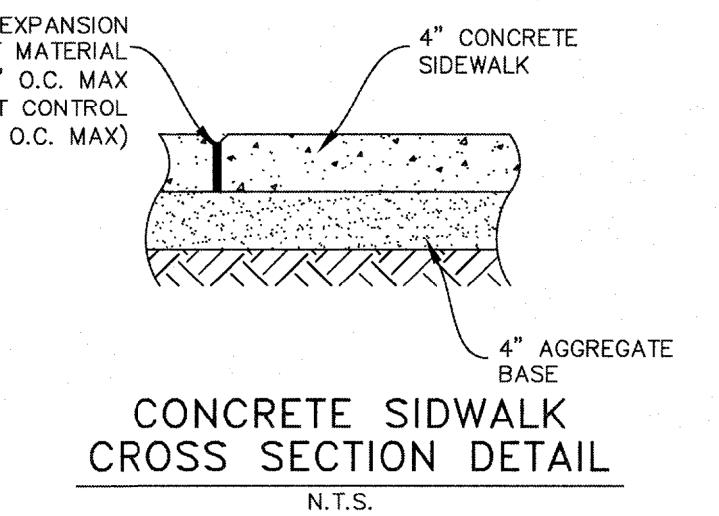
CONCRETE HEADWALL DETAIL
N.T.S.



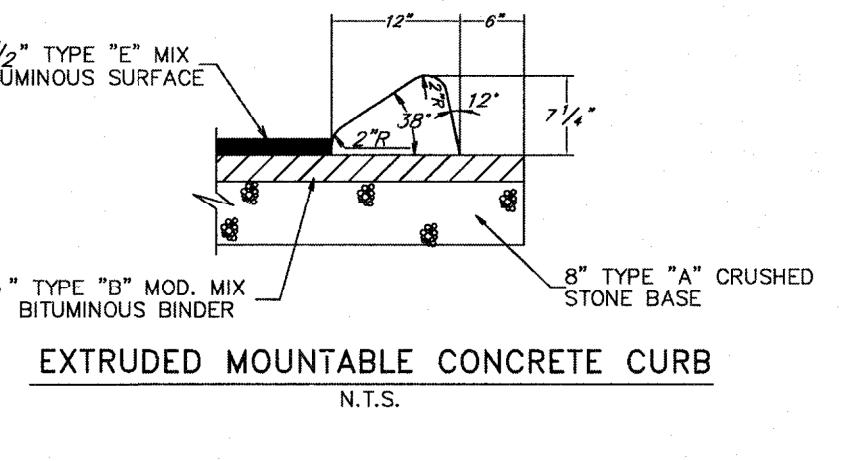
PAVING SECTION
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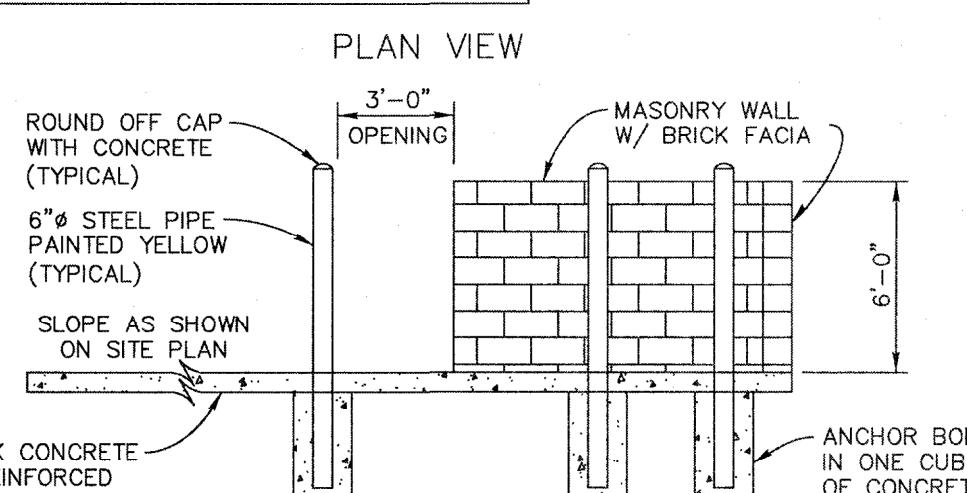
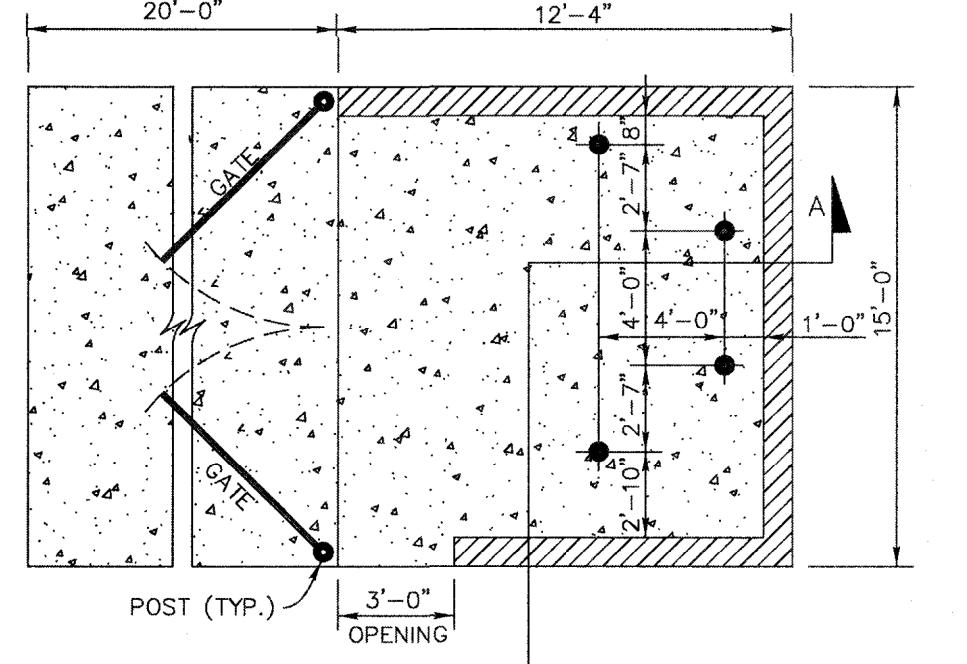
H.C. SIGN AND RAMP DETAILS
N.T.S.



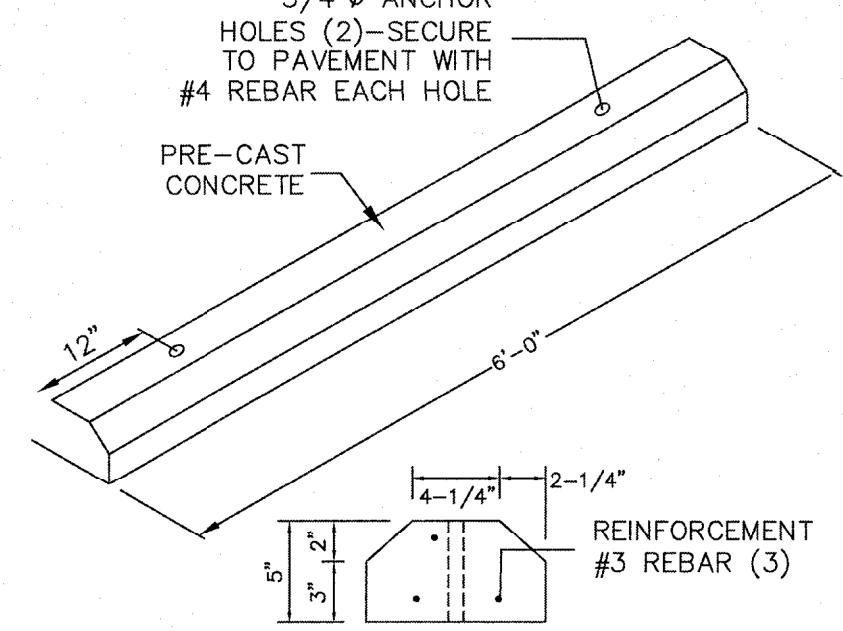
CONCRETE SIDEWALK
CROSS SECTION DETAIL
N.T.S.



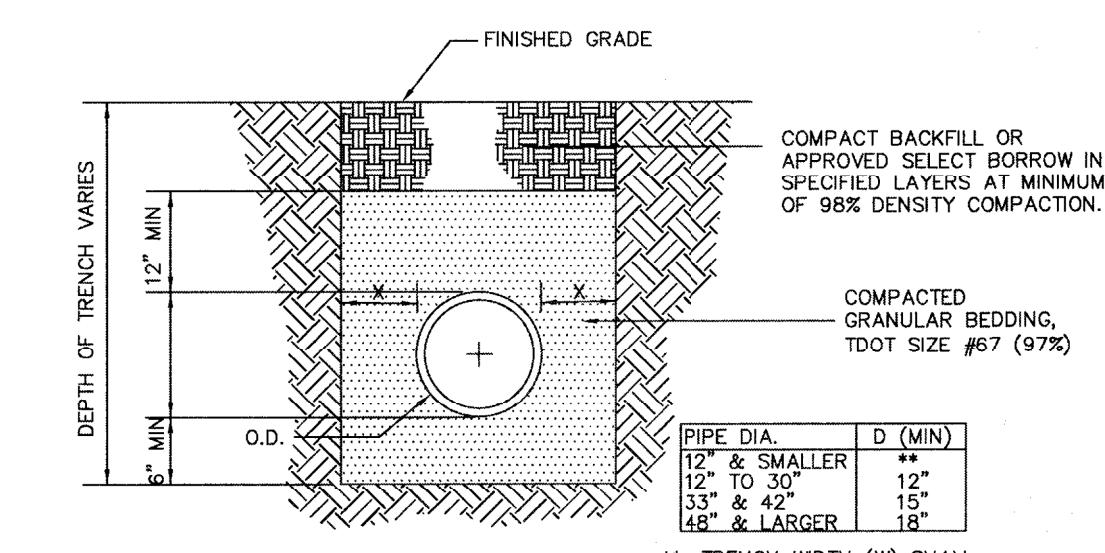
EXTRUDED MOUNTABLE CONCRETE CURB
N.T.S.



SECTION A-A
ENCLOSED DUMPSTER PAD
W/ WALK THRU & GATE
N.T.S.



CONCRETE WHEEL STOP
N.T.S.



TRENCH BEDDING
FOR STORM DRAIN
N.T.S.

NO.	DATE	DESCRIPTION
0	05-16-22	Original Issue - For Review
1	05-24-22	Revised Per Staff Comments



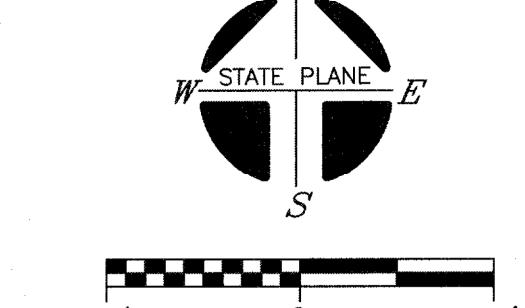
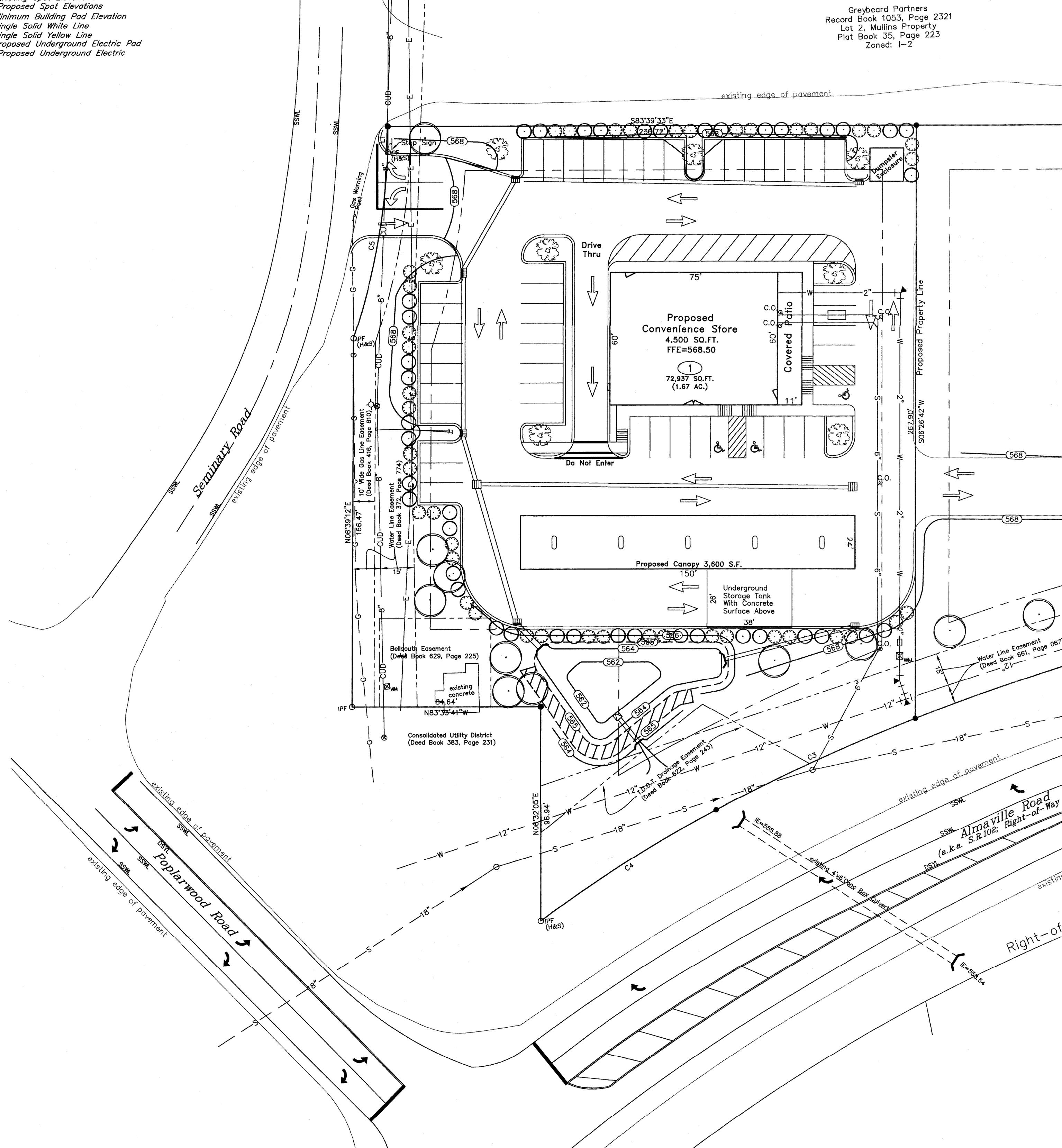
LEGEND

Power Pole
Existing Fire Hydrant
Proposed Fire Hydrant
Reducer
Proposed Gate Valve & Box
Concrete Valve Block
Water Line
Proposed Water Line
Existing Sanitary Sewer Line
Proposed Sanitary Sewer Line
Existing Manhole
Proposed Manhole
Existing Contours
Proposed Contours
Existing Spot Elevations
Proposed Spot Elevations
MPE = Minimum Building Pad Elevation
SSWL = Single Solid White Line
SSYL = Single Solid Yellow Line
Proposed Underground Electric Pad
Proposed Underground Electric

PLANT MATERIAL LIST

Canopy / Evergreen Trees					
Tag	Qty	Botanical Name	Common Name	Size	Typ. Spacing
AceGin	16	Acer ginnala	Flame amur Maple	3' Cal.	as shown on plans
WL	8	Acer Rubrum	Red Maple	6' Hgt.	as shown on plans
Shrubs and Perennials					
O	BH	42	Ilex cornuta 'Dwarf Burford'	Dwarf Burford Holly	24" Hgt. 3' on center
O	CH	41	Ilex cornuta rotunda	Dwarf Chinese Holly	3 Gal

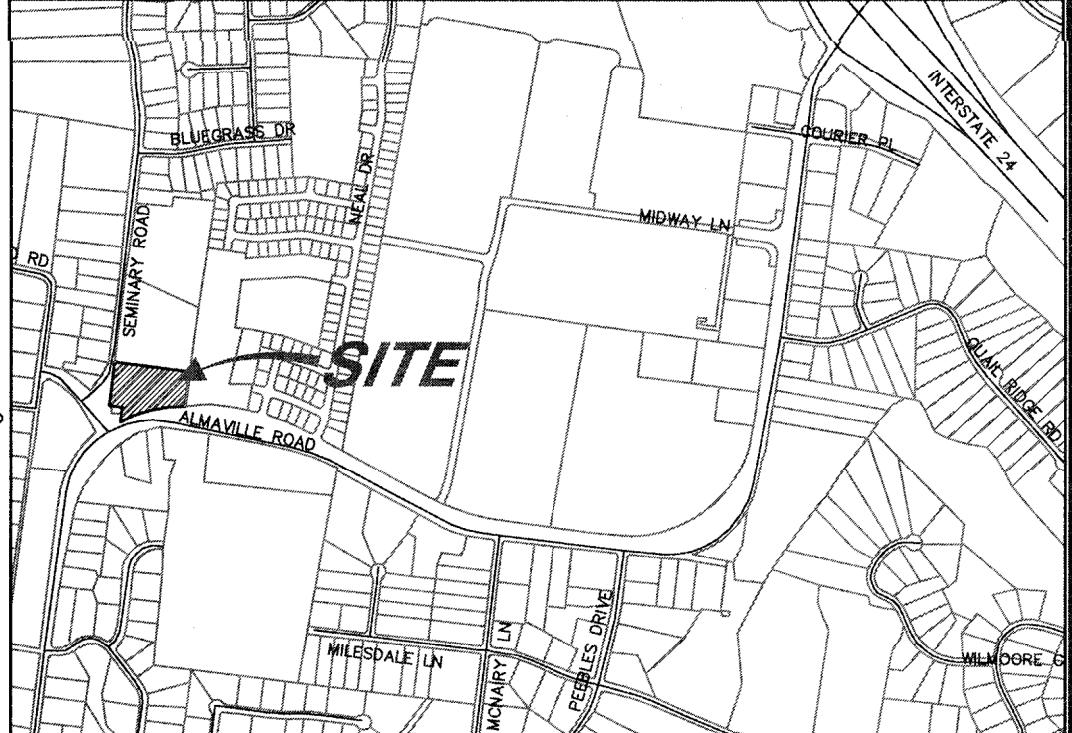
Graybeard Partners
Record Book 1053, Page 2321
Lot 2, Mullins Property
Plat Book 35, Page 223
Zoned: I-2



LEGEND FOR MONUMENTS
O IRON PIN SET
(1/2" rebar w/ HSENGR cap)
IPP O IRON PIN FIND.
O RAILROAD SPIKE
FENCE
X SURVEY POINT
NAIL
CONC. MARKER FND.
CONTROLLED ACCESS FENCE

OWNER: Graybeard Partners
ADDRESS: 6019 Seminary Road
Smyrna, TN 37167
Tax Map 55, Parcel 7.02
Record Book 1053, Page 2320
Plat Book 35, Page 223

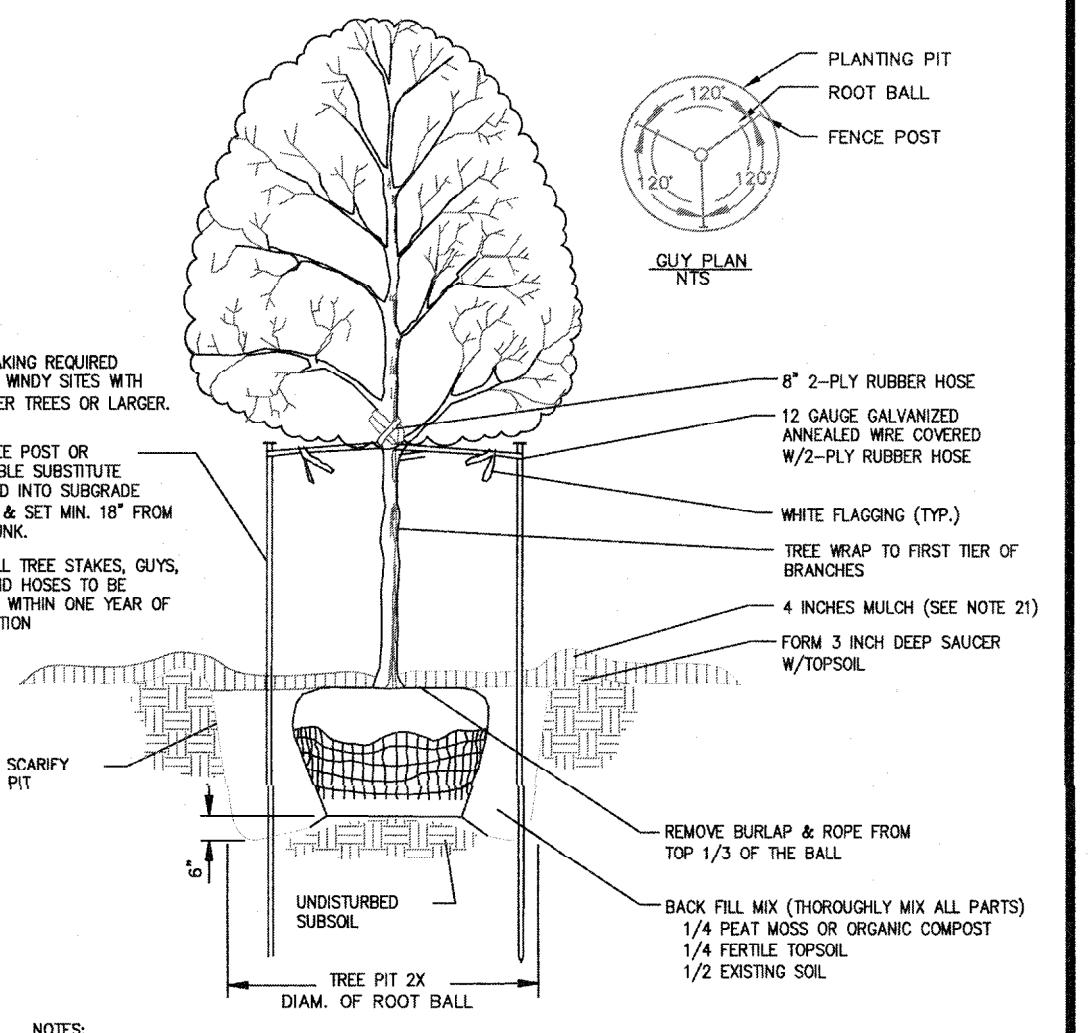
THIS TRACT IS NOT INCLUDED IN AREAS
DESIGNATED AS "SPECIAL FLOOD HAZARD" ON
THE NATIONAL FLOOD INSURANCE PROGRAM
COMMUNITY MAP 470149, PANEL NO. 0116 J,
ZONE: X, OCTOBER 16, 2008.



LOCATION MAP

NTS

- It is the responsibility of the landscape contractor to confirm all material quantities. In the event of a discrepancy, the quantities shown on the plan shall take precedence over the material schedule.
- No plantings shall be set out or spaded or planted until the landscape architect or owner's representative has been advised.
- Dimensions listed for heights, spread and trunk specifications on the plant material schedule are general guide for the minimum required sizes.
- All plant materials to be nursery grown and comply with the American standard for nursery stock for size and quality.
- The landscape architect or owner's representative reserves the right to return any plant material or any defective merchandise.
- All trees and shrubs shall be delivered in full leaf and in good condition. Trunks shall be straight and true.
- Trunks shall be undamaged and shape shall be typical of the species.
- Measurements of trunk height shall include no more than 5 percent (5%) of tree vertical growth (top condit).
- All planting operations shall be performed by professionals.
- All disturbed areas of the site are to be seeded and/or sodded in accordance with the specifications.
- No excavation or planting pits shall be left open overnight.
- The landscape architect or owner's representative shall be advised when stakes are ready for inspection on various planting areas. All layout work shall be inspected and approved by the landscape architect or owner's representative prior to opening any plant pits.
- If it is determined that the layout conditions do not meet the requirements of the plant list, the contractor shall fill the bottom of selected holes with six inches of water. This water should be absorbed within one hour. If water remains in the hole after one hour, the contractor shall fill the bottom of the hole with topsoil and installing trees or shrubs. The contractor shall fill the bottom of selected holes with six inches of water, otherwise the landscape contractor warrants that the planting area does not drain properly, a pvc drain or gravel sum shall be installed or the planting relocated.
- Should the landscape contractor encounter unsatisfactory surface or other subsurface drainage conditions, soil depth, latent soils, rock, or other conditions which do not meet the requirements of the plant list, the contractor shall fill the bottom of the hole with topsoil and the landscape architect in writing of the conditions prior to installing the plants, otherwise the landscape contractor warrants that the planting area does not drain properly, a pvc drain or gravel sum shall be installed or the planting relocated.
- No material shall be accepted before final grading has been completed.
- All planting bed areas are to be tilled to a depth of 8" with the addition of 1/4 cu. ft. of peat moss or organic compost per cu. ft. of soil. No more than 1/2 cu. ft. of sand, shredded pine bark, or peat moss are used. 1 3 cu. ft. of fine ground pine bark mulch per 25 sq. ft. of bed area. All conditions are to be spread and tilled into the soil uniformly.
- Contractor shall notify the landscape architect or owner's representative when the plant materials are available at the job site for review and acceptance.
- The contractor is responsible for fully maintaining all planting but not limited to: watering, spraying, mulching, fertilizing, etc.) of the planting areas and lawn until the work is accepted in total by the owner.
- The contractor shall provide a minimum period of one year including at least one growing season (March to November) from the date of total acceptance. The contractor shall promptly make all replacements before or at the end of the guarantee period.
- All trees which die, turn brown, or defoliate (prior to total acceptance of the work) shall be promptly removed from the site and replaced with material of the same species, quantity, and size and meeting all plant list specifications.
- All trees which are pruned shall be pruned to a minimum of 1/3 of the original trunk diameter.
- All planting beds shall be mulched with a three inch layer of shredded pine needle or hardwood mulch to cover the complete planting area. Shredded pine bark shall be the primary mulch selection unless the owner specifies one straw mulch.
- Permitted ROW must be limited up 7-feet for visibility.
- Per Consolidated Utility District of Rutherford County (CUD), all trees must be located a minimum of ten feet from water lines, valves, fire hydrants, meters, and other related appurtenances.



TREE PLANTING DETAIL

NTS

NO.	DATE	DESCRIPTION
0	05-16-22	Original Issue - For Review
1	05-24-22	Revised Per Staff Comments
2	06-01-22	Revised Per Staff Comments

SHRUB PLANTING DETAIL

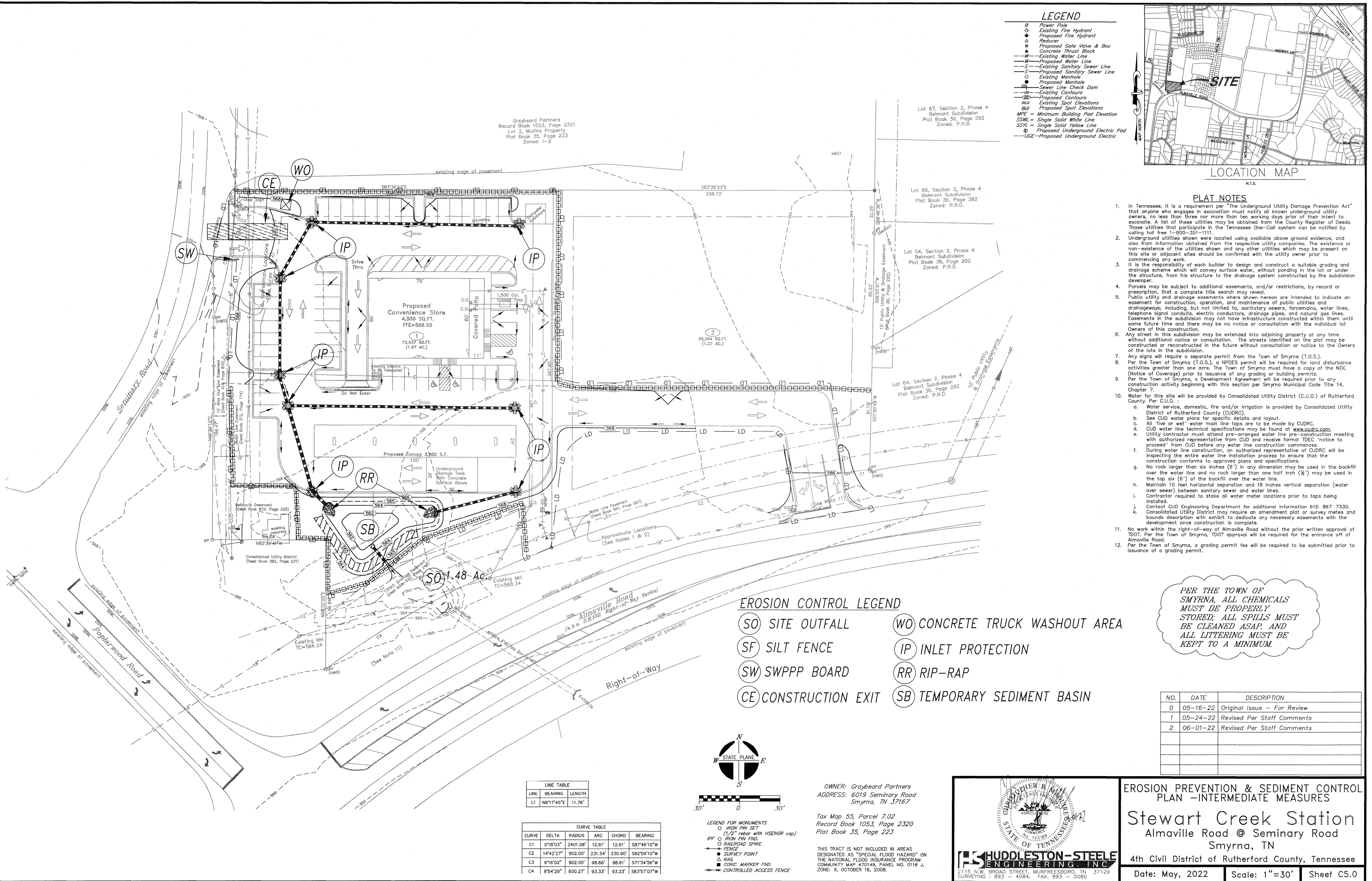
NTS

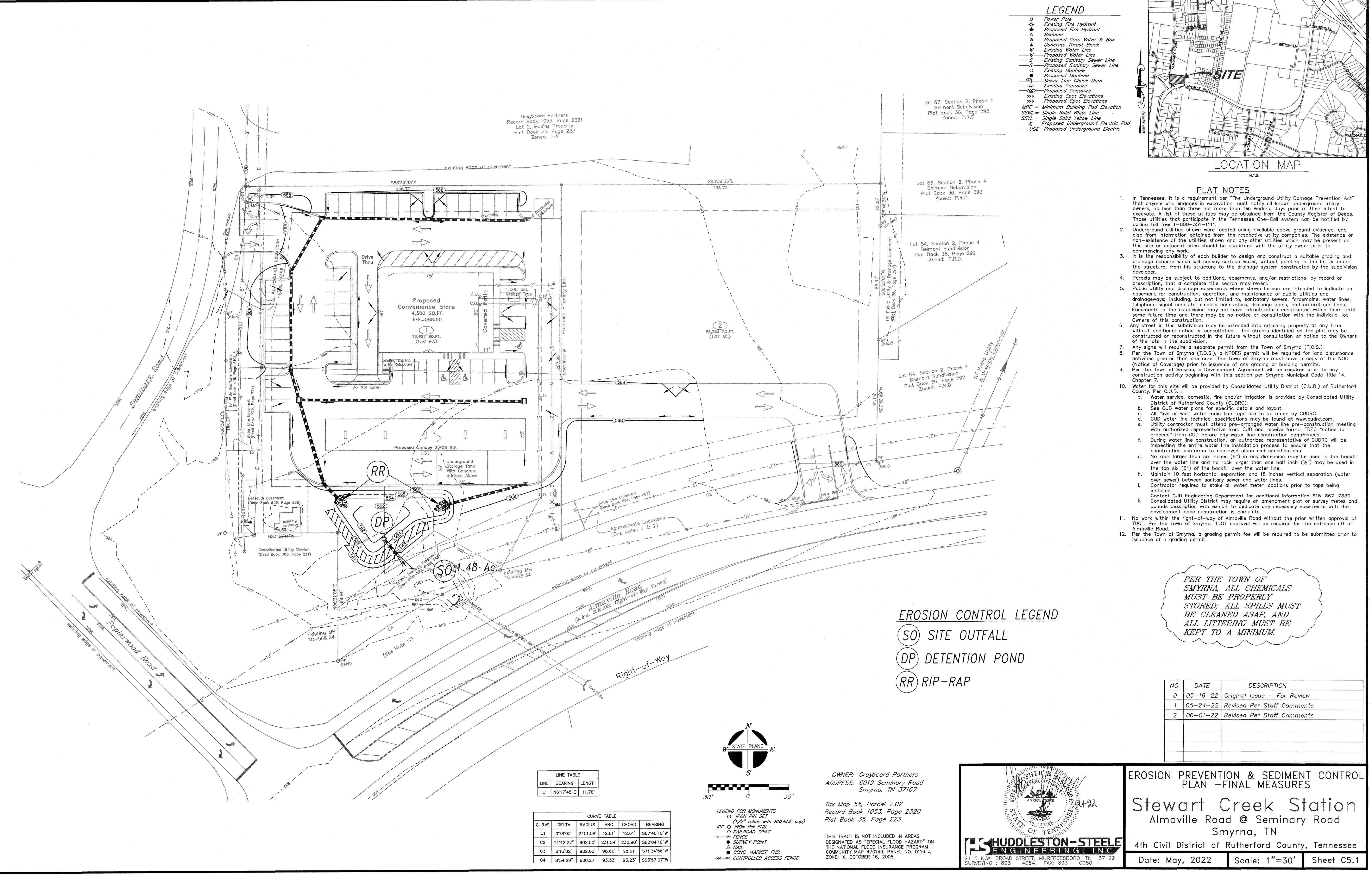


Landscape Plan

Stewart Creek Station
Almaville Road @ Seminary Road
Smyrna, TN

4th Civil District of Rutherford County, Tennessee
Date: May, 2022 | Scale: 1"=30' | Sheet C4.0

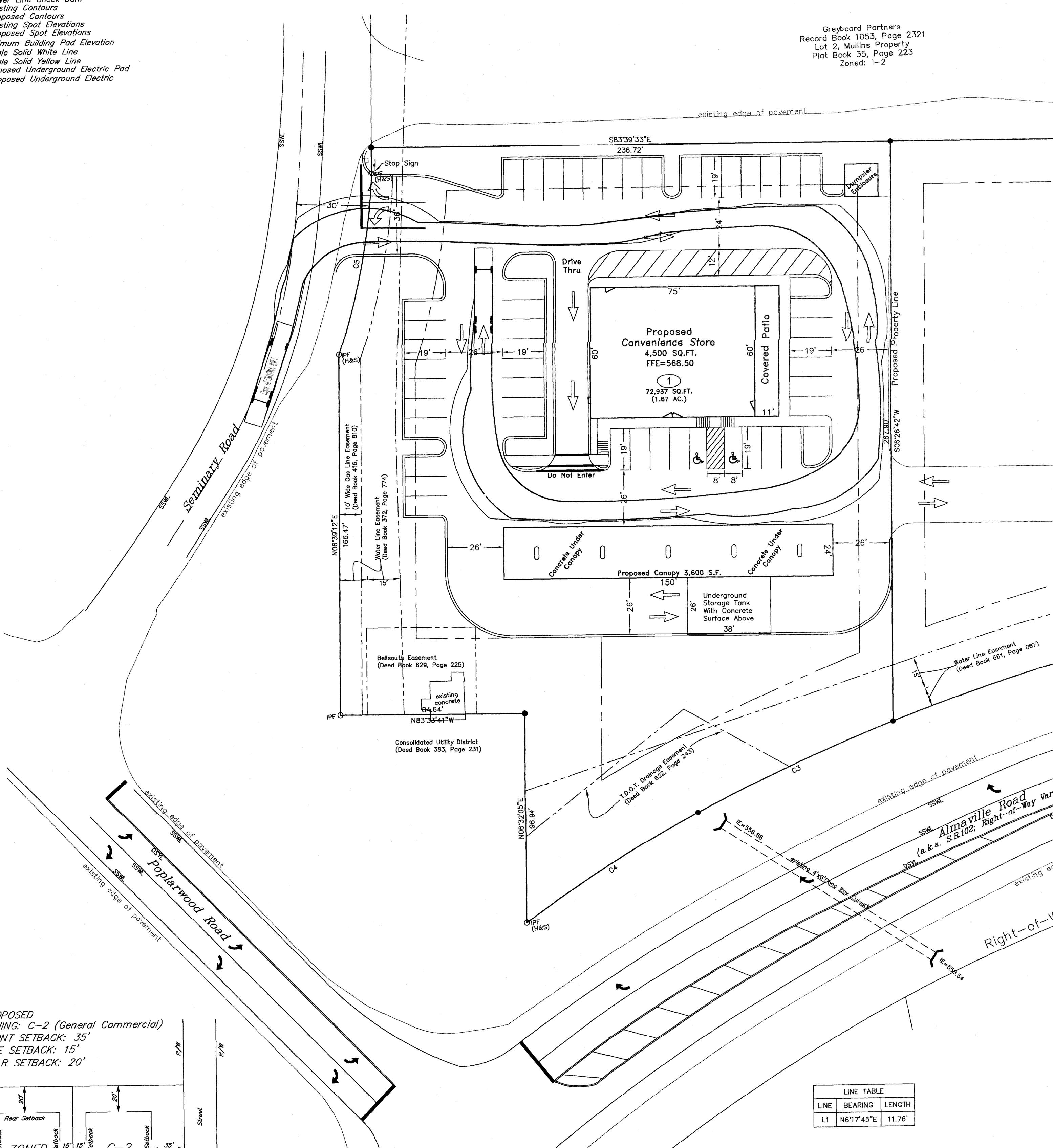




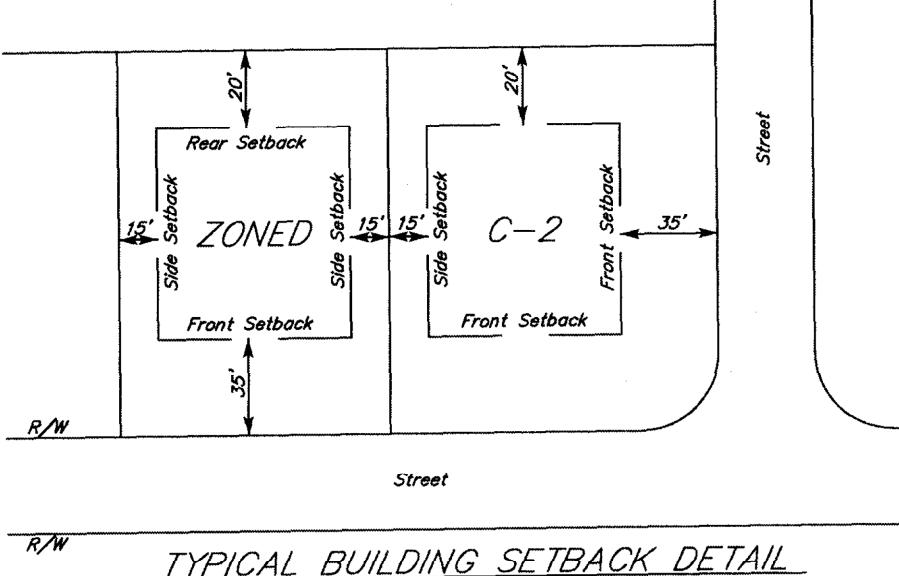
LEGEND

- Ø Power Pole
- ◊ Existing Fire Hydrant
- ♦ Proposed Fire Hydrant
- △ Rain Gutter
- ▲ Proposed Gate Valve & Box
- ◆ Concrete Thrust Block
- W- Existing Water Line
- S- Existing Sanitary Sewer Line
- S- Proposed Sanitary Sewer Line
- Existing Manhole
- Proposed Manhole
- Existing Line Check Dam
- Proposed Contours
- Existing Spot Elevations
- Existing Building Elevation
- MPE = Minimum Building Pad Elevation
- SSWL = Single Solid White Line
- SSYL = Single Solid Yellow Line
- Proposed Underground Electric Pad
- UGE -- Proposed Underground Electric

Greybeard Partners
Record Book 1053, Page 2321
Lot 2, Mullins Property
Plat Book 35, Page 223
Zoned: I-2



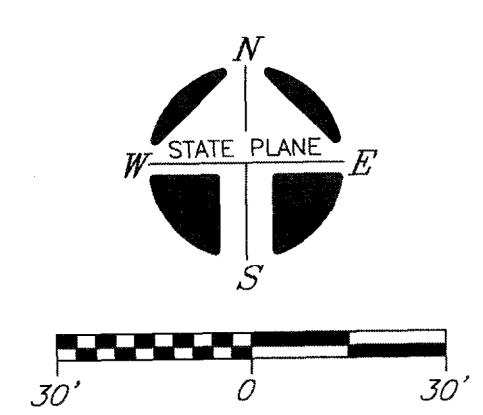
PROPOSED
ZONING: C-2 (General Commercial)
FRONT SETBACK: 35'
SIDE SETBACK: 15'
REAR SETBACK: 20'



TYPICAL BUILDING SETBACK DETAIL

LINE TABLE		
LINE	BEARING	LENGTH
L1	N6°17'45"E	11.76'

CURVE TABLE					
CURVE	DELTA	RADIUS	ARC	CHORD	BEARING
C1	0°18'03"	2401.58'	12.61'	S87°46'10"W	
C2	14°42'27"	902.00'	231.54'	S82°04'10"W	
C3	6°16'02"	902.00'	98.66'	S71°34'56"W	
C4	8°54'29"	600.27'	93.33'	S63°57'07"W	
C5	15°42'13"	311.98'	85.51'	N16°47'21"E	



OWNER: Greybeard Partners
ADDRESS: 6019 Seminary Road
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Tax Map 55, Parcel 7.02
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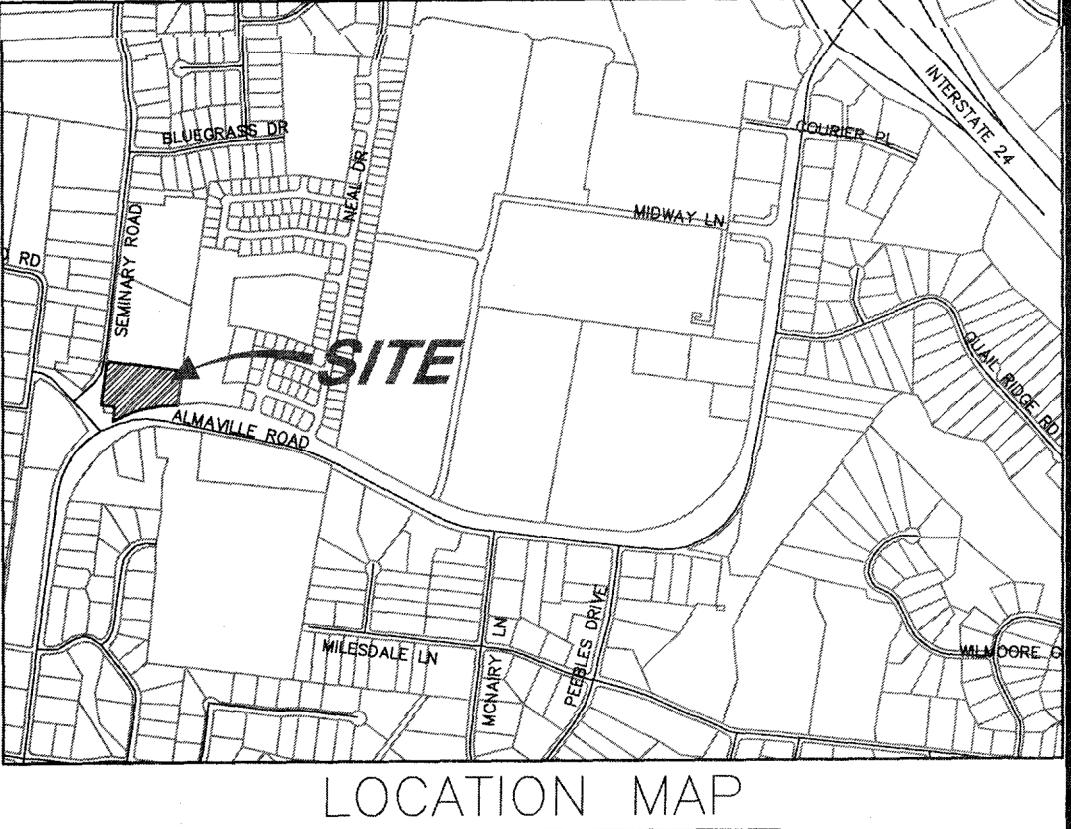
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ZONE: X, OCTOBER 16, 2008.

LEGEND FOR MONUMENTS
○ IRON PIN SET
(1/2" dia. with HSENR cap)
IPP ○ IRON PIN FND.
○ RAILROAD SPIKE
— FENCE
△ MAIL
■ CONC. MARKER FND.
— CONTROLLED ACCESS FENCE

HUDDLESTON-STEELE
ENGINEERING, INC.
2115 N.W. BROAD STREET, MURFREESBORO, TN 37129
SURVEYING: 893 - 4084, FAX: 893 - 0080

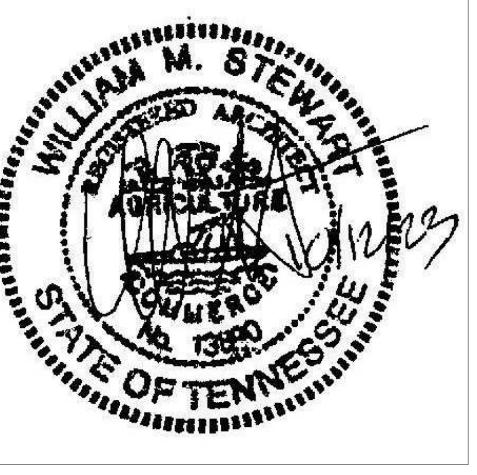
NO.	DATE	DESCRIPTION
0	05-16-22	Original Issue - For Review

Autoturn
Stewart Creek Station
Almaville Road @ Seminary Road
Smyrna, TN
4th Civil District of Rutherford County, Tennessee
Date: May, 2022 Scale: 1"=30' Sheet C6.0



PLAT NOTES

- In Tennessee, it is a requirement per "The Underground Utility Damage Prevention Act" that anyone who engages in excavation must notify all known underground utility owners, no less than three nor more than ten working days prior of their intent to excavate. A list of these utilities may be obtained from the County Register of Deeds. Those who do not participate in the Tennessee One-Call system can be notified by calling toll free: 800-342-3111.
- Underground utilities shown were located using available above ground evidence, and also from information obtained from the respective utility companies. The existence or non-existence of the utilities shown and any other utilities which may be present on this site or adjacent sites should be confirmed with the utility owner prior to commencing any work.
- It is the responsibility of each builder to design and construct a suitable grading and drainage scheme which will convey surface water, without ponding in the lot or under the structure, from his structure to the drainage system constructed by the subdivision developer.
- Parcels may be subject to additional easements, and/or restrictions, by record or public opinion, that a complete title search may reveal.
- Public utility and drainage easements where shown herein are intended to indicate an easement for construction, operation, and maintenance of public utilities and drainageways, including, but not limited to, sanitary sewers, force mains, water lines, telephone lines, conduits, electric conductors, drainage pipes, and natural gas lines. Easements in this subdivision may not have infrastructure constructed within them until some future time and there may be no notice or consultation with the individual lot Owners of this construction.
- Any street in this subdivision may be extended into adjoining property of any time without additional notice or consultation. The streets identified on the plat may be constructed and maintained in the future without consultation or notice to the Owners of the lots in the subdivision.
- Any signs will require a separate permit from the Town of Smyrna (T.O.S.).
- Per the Town of Smyrna (T.O.S.), a NPDES permit will be required for land disturbance activities greater than one acre. The Town of Smyrna must have a copy of the NOC (Notice of Coverage) prior to issuance of any grading or building permits.
- Per the Town of Smyrna, a Development Agreement will be required prior to any construction activity beginning with this section per Smyrna Municipal Code Title 14, Chapter 1.
- Water for this site will be provided by Consolidated Utility District (C.U.D.) of Rutherford County, Per C.U.D.:
 - Water service, domestic, fire and/or irrigation is provided by Consolidated Utility District of Rutherford County (C.U.D.).
 - See C.U.D. website for specific details and layout.
 - All 1" or wet water meter line taps are to be made by CUDRC.
 - CUD water line technical specifications may be found at www.cudrc.com.
 - Utility contractor must attend pre-arranged water line pre-construction meeting with authorized representative from CUD and receive formal TDEC "notice to proceed" from CUD before any related work.
 - During water line construction, an authorized representative of CUDRC will be inspecting the entire water line installation process to ensure that the construction conforms to approved plans and specifications.
 - No rock larger than six inches (6") in any dimension may be used in the backfill over the water line and no rock larger than one half inch (1/2") may be used in the top six (6") of the backfill over the water line.
 - Maintain 10 feet horizontal separation and 18 inches vertical separation (water over sewer) between sanitary sewer and water lines.
 - Contractor required to stoke all water meter locations prior to taps being installed.
 - Contact CUD Engineering Department for additional information 615-867-7330.
 - Consolidated Utility District may require an amendment plan or survey metes and bounds description with exhibits to indicate any necessary easements with the development once construction is complete.
- No work within the Right-of-Way of Almaville Road without the prior written approval of TDOT. Per the Town of Smyrna, TDOT approval will be required for the entrance off of Almaville Road.
- Per the Town of Smyrna, a grading permit fee will be required to be submitted prior to issuance of a grading permit.



LIFE SAFETY NOTES

1. FIRE PROTECTION EQUIPMENT IS REQUIRED TO COMPLY, OPERATE, AND BE MAINTAIN TO LEVEL OF PROTECTION PER LOCAL, STATE, AND FEDERAL CODES AND REGULATION.
2. REFER TO ELECTRICAL DRAWINGS FOR FINAL LOCATION AND QUANTITY OF FIRE ALARM AND LIFE SAFETY SYSTEM.
3. PROVIDE FIRE EXTINGUISHERS AND CABINETS IN ACCORDANCE WITH IBC AND/OR NFPA FEC'S ARE INDICATED FOR PLACEMENT IN HIGH HAZARD AREAS. STORAGE AND ELECTRICAL ROOMS GREATER THAN 100SF, COORDINATE PLACEMENT WITH EQUIPMENT AND PANELS IN FIELD.
4. FIRE EXTINGUISHERS IN EGRESS PATH MUST BE IN SEMI RECESSED BOXES IN ACCORDANCE WITH IBC AND/OR NFPA.

CODE ANALYSIS

OCCUPANCY CLASSIFICATION	MERCANTILE
CONSTRUCTION TYPE	TYPE 2B (UNPROTECTED) AND UNSPRINKLERED
ALLOWABLE HEIGHT AND AREA	HEIGHT - 20'-2" ALLOWED 40'-0" (TABLE 504.3) STORES - ONE STORY (TABLE 504.4) BLDG. AREA - 3,840.00 S.F. ALLOWED 12,500 S.F. (TABLE 506.2)
MAXIMUM COMMON DISTANCE MAXIMUM TRAVEL DISTANCE	75 FEET 200 FEET
FIRE WALL (BUILDING SEPARATION)	NOT REQUIRED
INTERIOR BEARING PARTITIONS	NO RATING
ROOF / CEILING	NO RATING - NON COMBUSTABLE
COLUMNS SUPPORTING ONLY	NO RATING
BEAMS, GIRDERS, TRUSSES, & ARCHES SUPPORTING ROOF ONLY	NO RATING
EXTERIOR WALL RATING	NO RATING
CORRIDOR PARTITIONS	RESIST THE PASSAGE OF SMOKE
STORAGE AREAS & ELECT. CLOS.	RESIST THE PASSAGE OF SMOKE

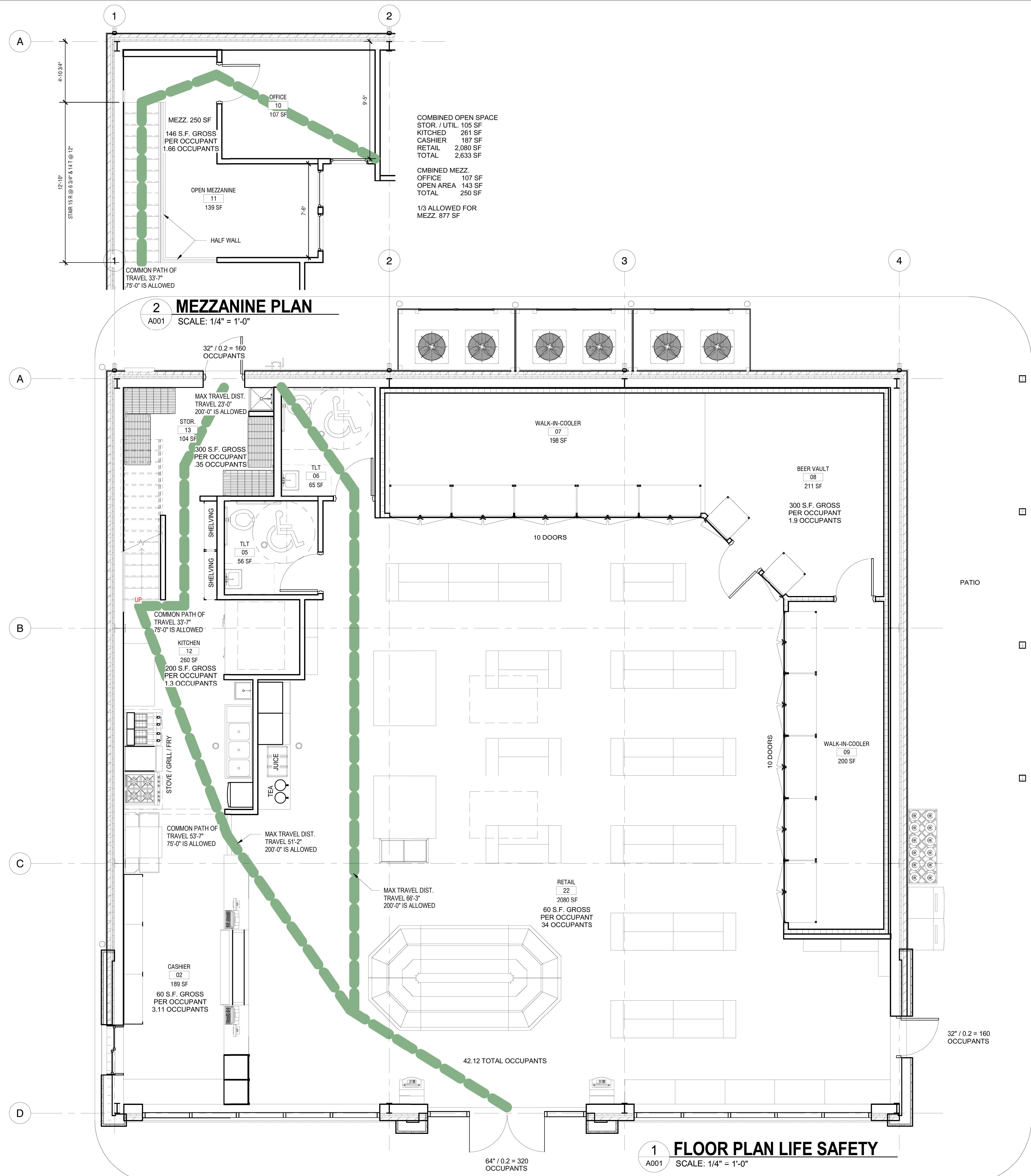
W. Michael Stewart
Architect

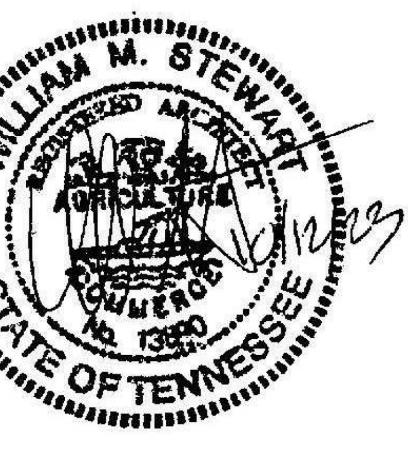
540 Grove Isle Cir. 103
Vero Beach, Florida 32962

STEWART CREEK
STATION
SMYRNA, TENNESSEE

10/12/2023

A0.01





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Architect**

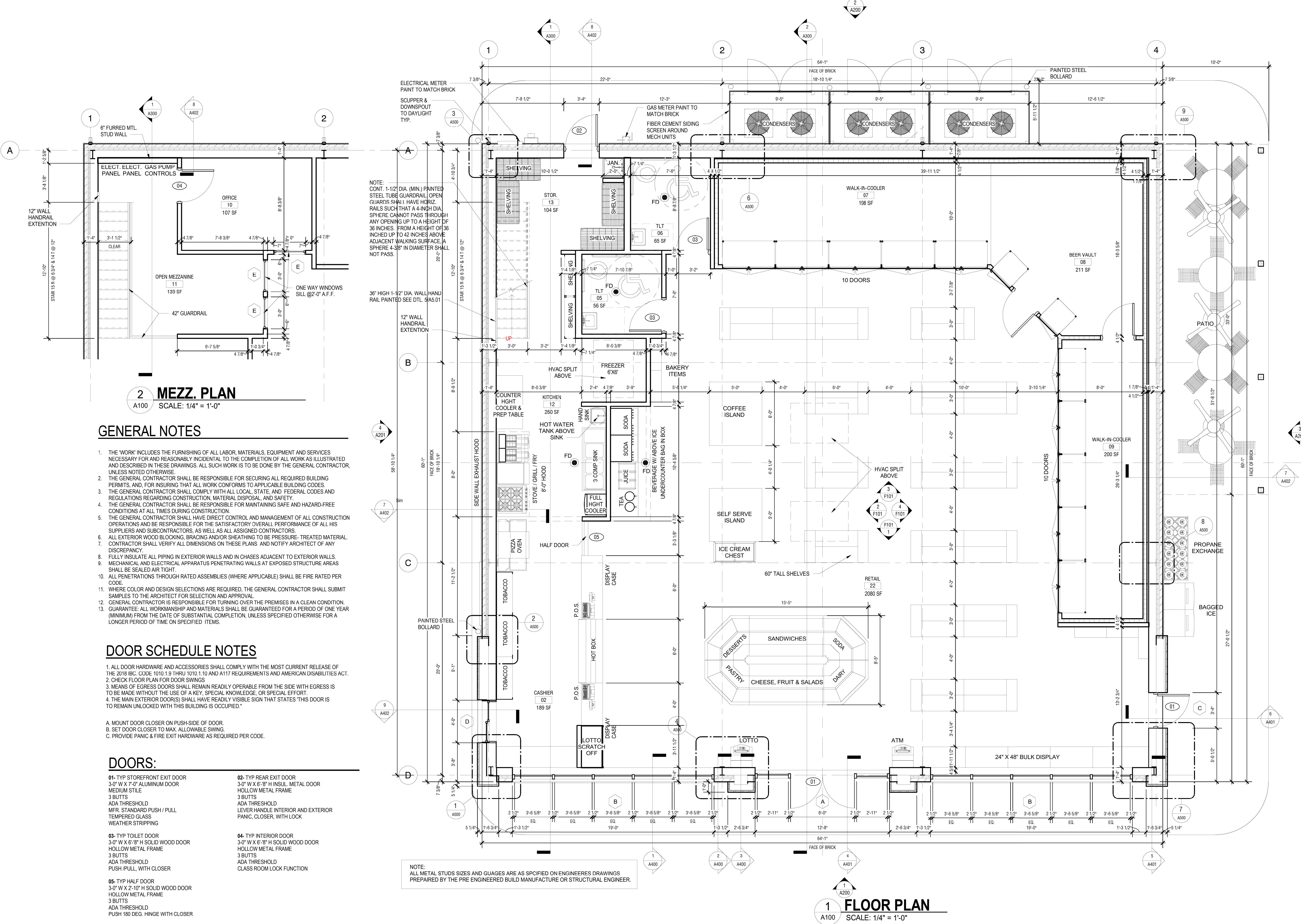
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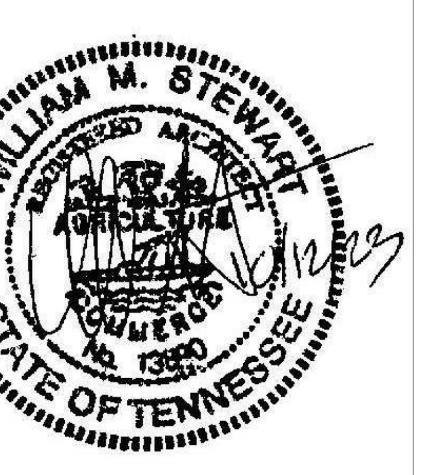
STEWART CREEK STATION

SMYRNA, TENNESSEE

10/12/2023

A1.00





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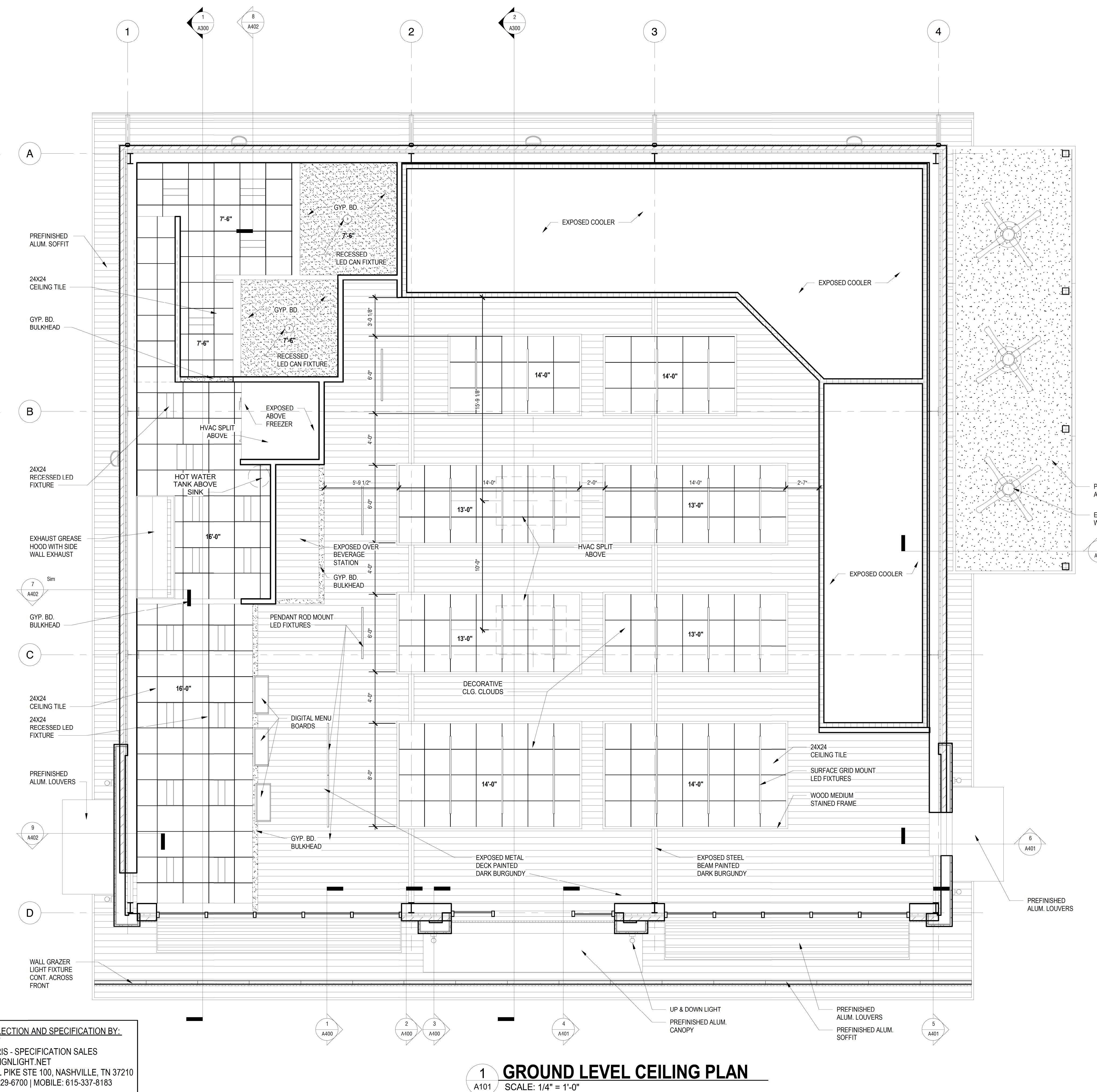
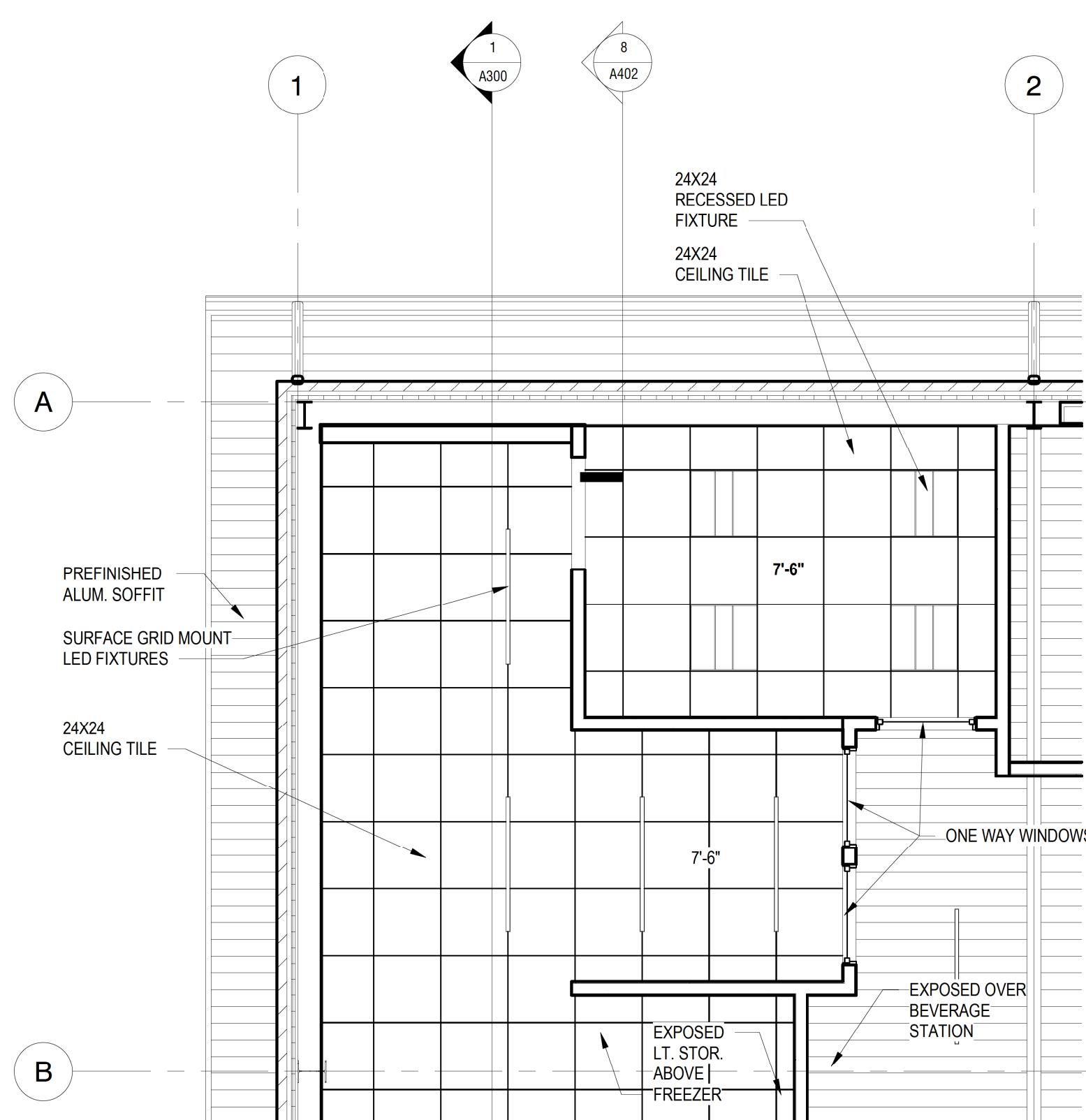
540 Grove Isle Cir. 103
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STEWART CREEK STATION

SMYRNA, TENNESSEE

10/12/2023

A1.01





GENERAL NOTES:

1. VERIFY ALL ROOF OPENINGS, SIZES AND LOCATIONS WITH MECHANICAL AND PLUMBING CONTRACTORS PRIOR TO PENETRATING ROOF SYSTEM.
2. CONTRACTOR SHALL FLASH ALL PENETRATIONS THROUGH ROOF SYSTEM. VERIFY MECHANICAL, PLUMBING AND ELECTRICAL ROOF OPENINGS.
3. ALL ROOF-TOP EQUIPMENT, PLUMBING AND MECHANICAL WORK SHALL BE INSTALLED PER BUILDING CODE.
4. CONTRACTOR SHALL LOCATE AND ROUTE EQUIPMENT AS INDICATED BY THE MECHANICAL DRAWINGS.
5. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT AND PENETRATIONS.
- 6.

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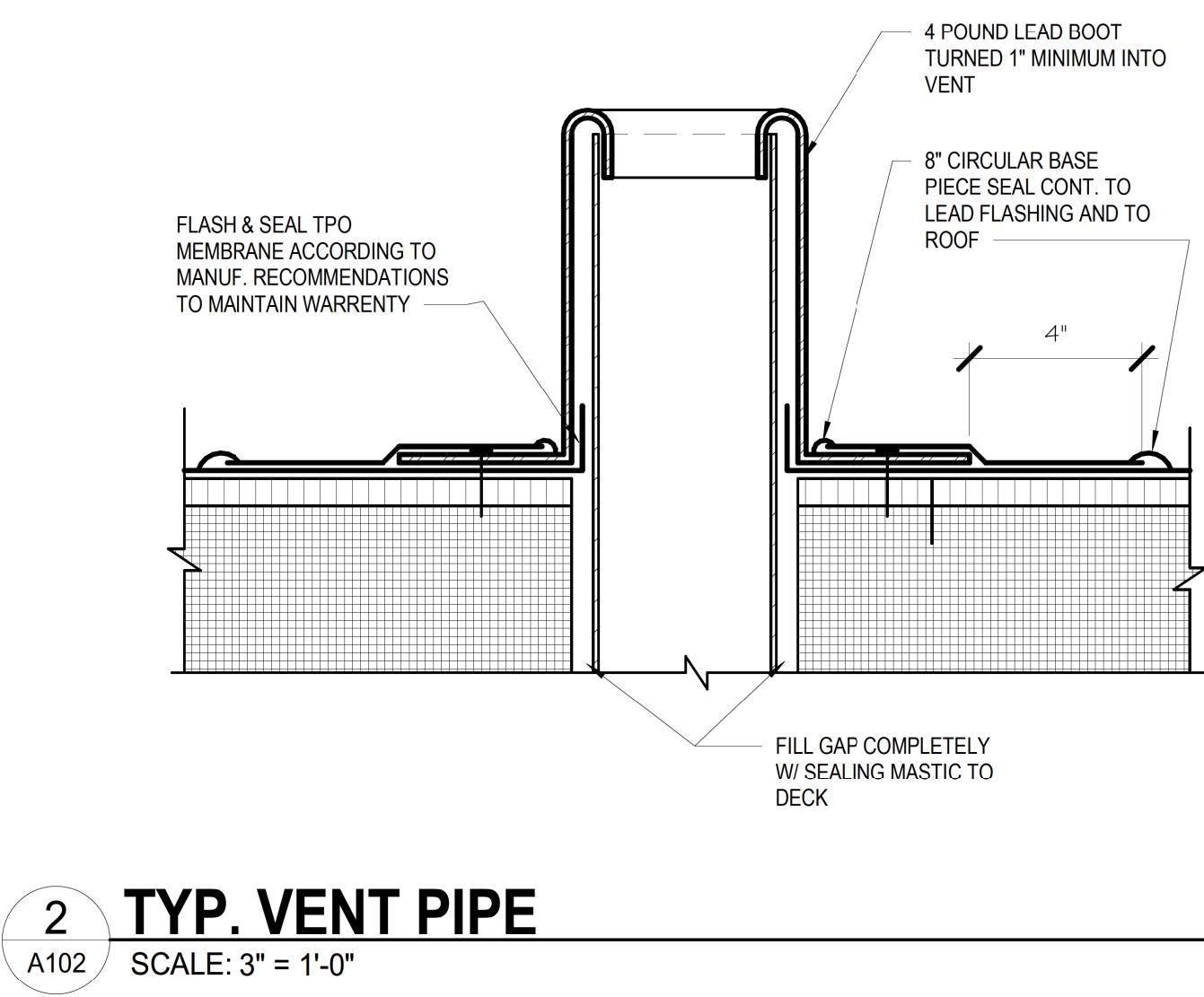
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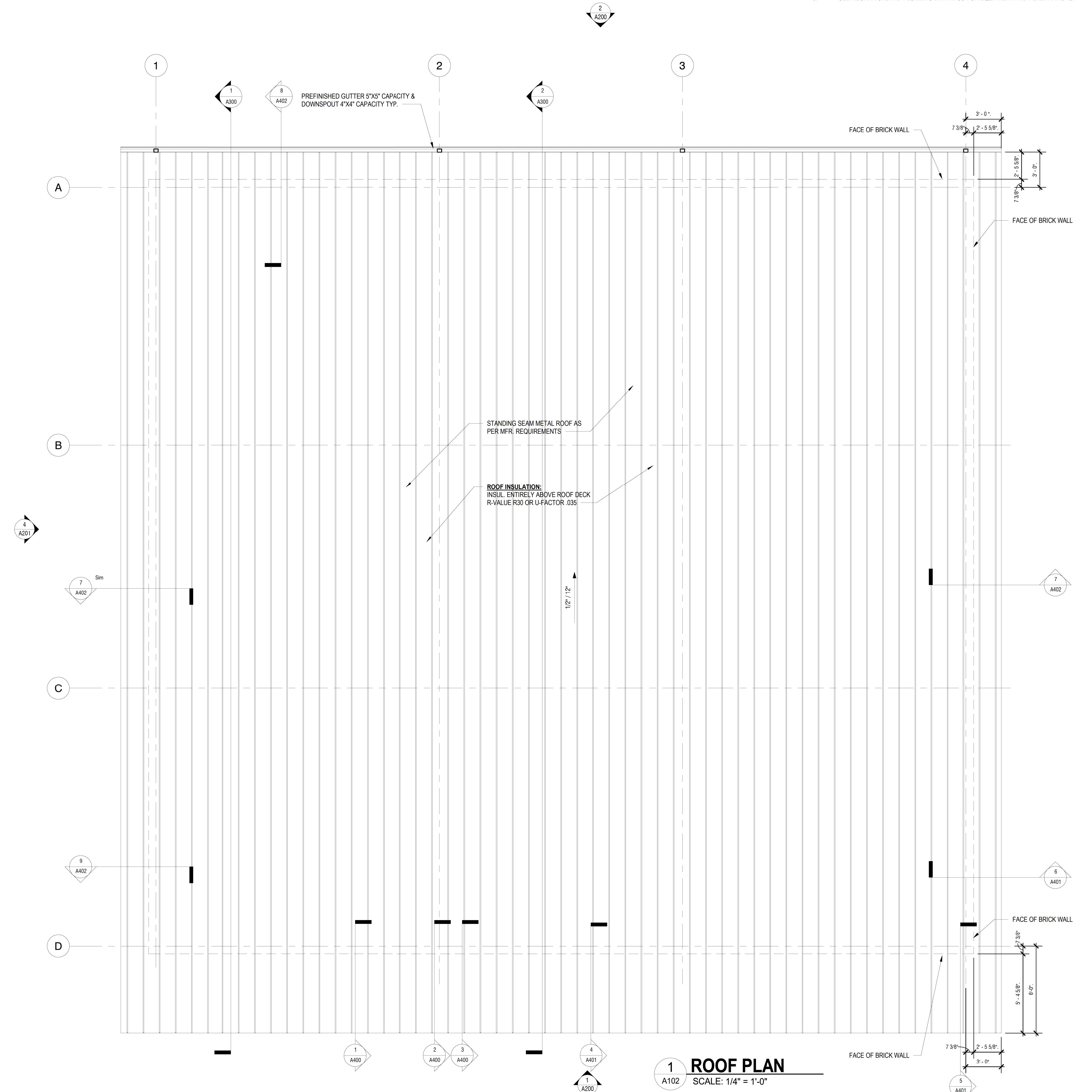
10/12/2023

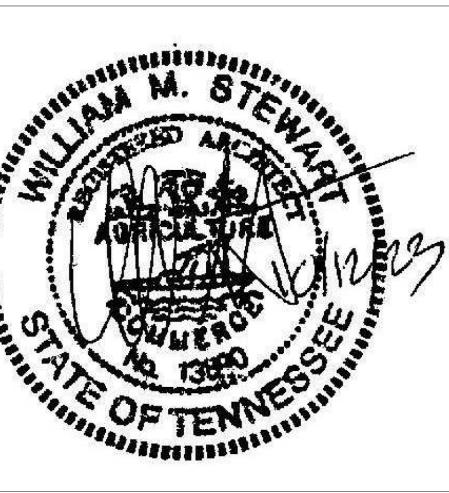
A1.02



TYP. VENT PIPE

SCALE: 3" = 1'-0"



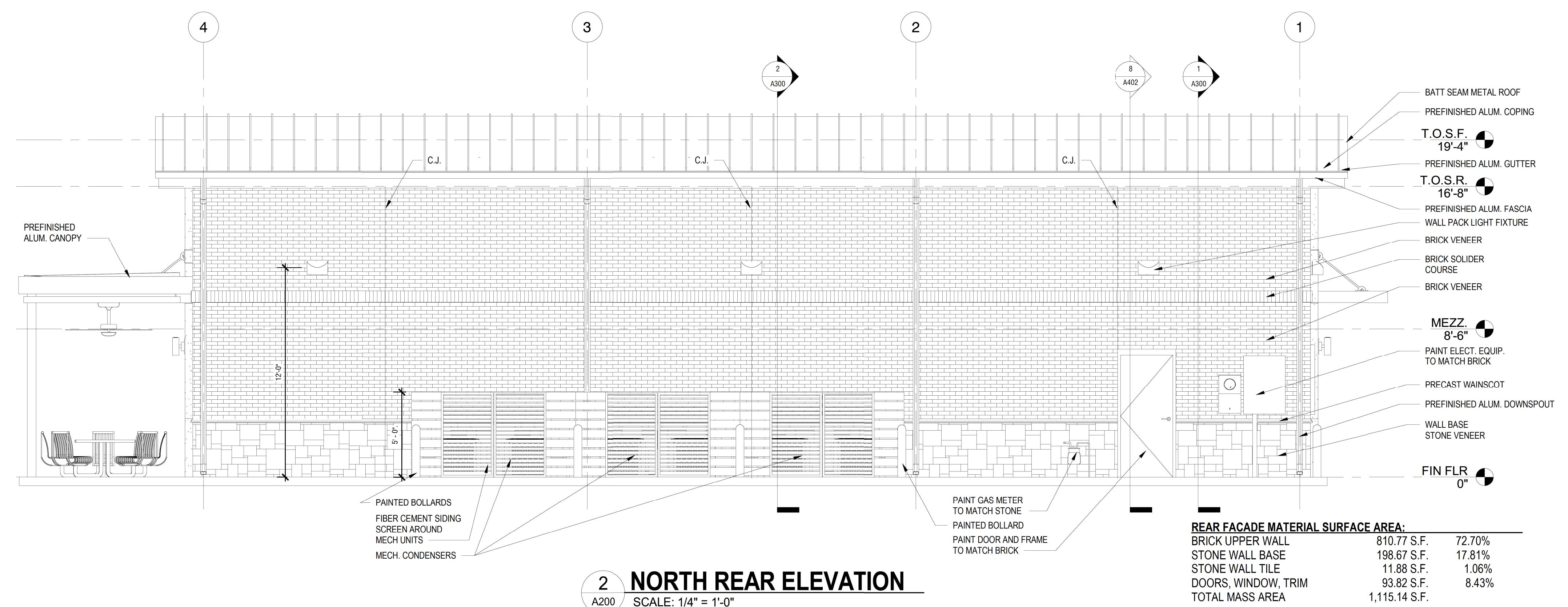
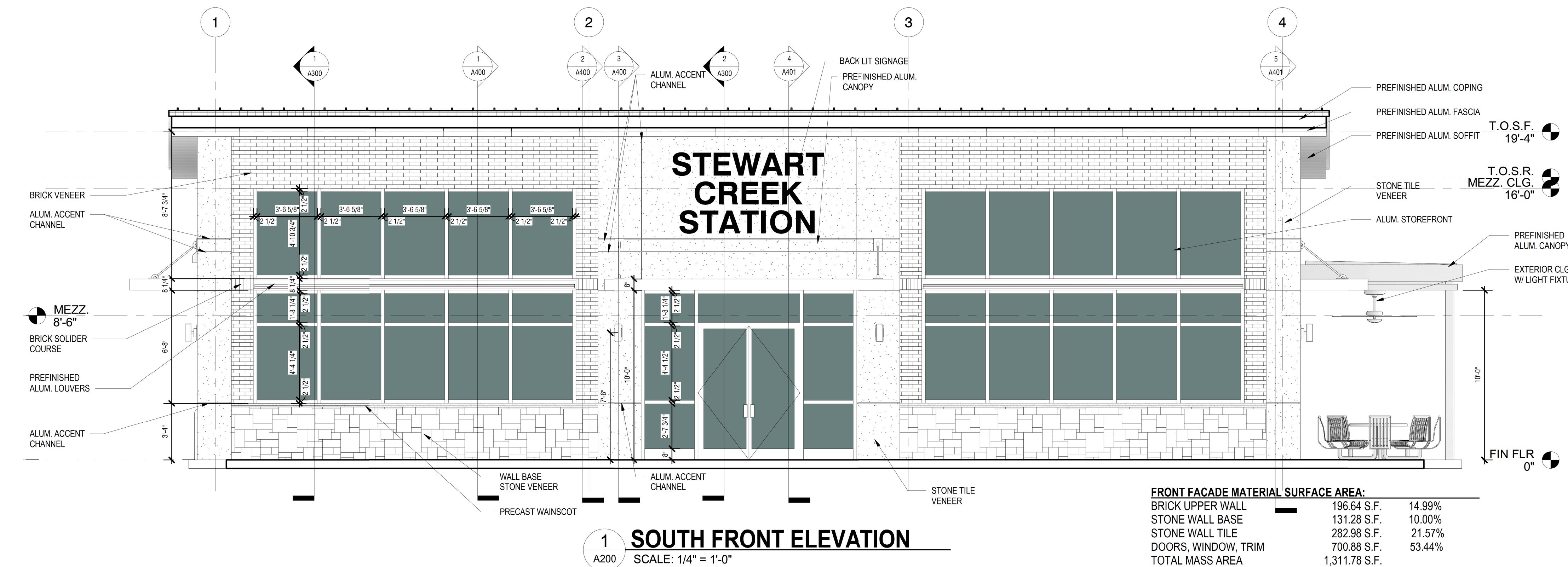


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Vero Beach, Florida 32962

STEWART CREEK STATION

SMYRNA, TENNESSEE



RETAIL CENTER EXTERIOR MATERIALS:			
BRICK VENEER ONE MANUFACTURE: TAYLOR CLAY COLOR: PEARL GRAY MORTAR COLOR: TYPE "N"	STOREFRONT MANUFACTURE: KAWNEER STYLE / SIZE: 1600 2X6 ALUMINUM COLOR: CLEAR ANODIZED ACCESSORY: 36° WEDGE SUN CONTROL LOUVER	ALUM. FASCIA CORNICE MANUFACTURE: T.B.D. STYLE / SIZE: T.B.D. COLOR: CLEAR ANODIZED FINISH: SATIN	
WAINSCOT ACCENT MANUFACTURE: ROCKCAST COLOR: BUFFSTONE MORTAR COLOR: TYPE "N"	GLAZING MANUFACTURE: PPG STYLE / SIZE: 1" INSULATED LOW-E COLOR: LITE GREY	ALUM. AWNINGS MANUFACTURE: T.B.D. STYLE / SIZE: ALUMINUM COLOR: CLEAR ANODIZED REMARK: 3'0" OVERHANG	
STONE VENEER MANUFACTURE: ARRISRAFT STYLE / SIZE: MULTIPLE COLOR: BEECH MOUNTAIN MORTAR COLOR: TYPE "N"	ALUM. CANOPY MANUFACTURE: T.B.D. STYLE / SIZE: T.B.D. COLOR: CLEAR ANODIZED REMARK: FAUX WOOD BLADE SOFFIT	UP & DOWNLIGHTS MANUFACTURE: T.B.D. STYLE / SIZE: T.B.D. COLOR: CLEAR ANODIZED	
STONE TILE MANUFACTURE: STONE PEAK STYLE / SIZE: 24"X48" COLOR: WHITE DESERT MORTAR COLOR: MATCH TILE			

GENERAL NOTE:
1. MECHANICAL EQUIPMENT ROOF MOUNTED SHALL BE INSTALLED SUCH THAT THE TOP OF THE EQUIPMENT IS BELOW THE HIGHEST POINT OF THE PARAPET WALLS.
2. PARAPET WALLS OR TOWERS THAT PROJECT ABOVE OTHER PORTIONS OF THE BUILDING SHALL BE FINISHED ON REAR SIDES WITH THE MATERIALS SIMILAR TO THE PRESENTATION SIDE.

A2.00

10/12/2023

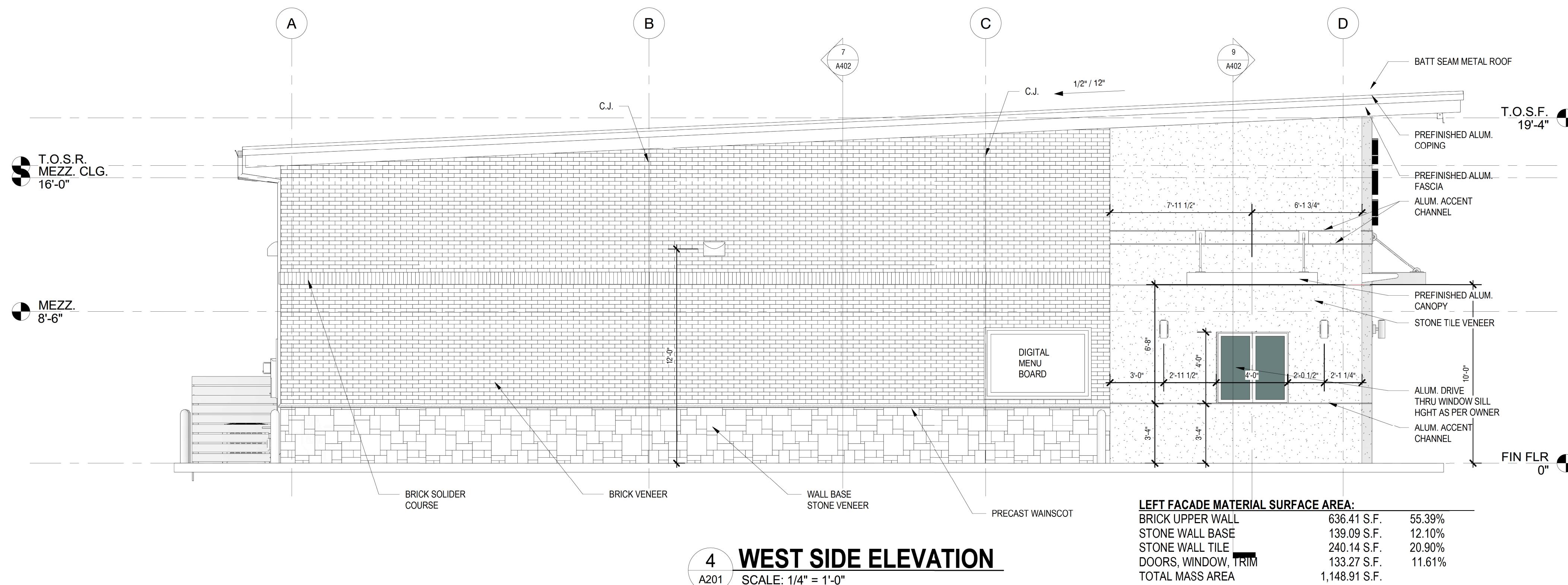
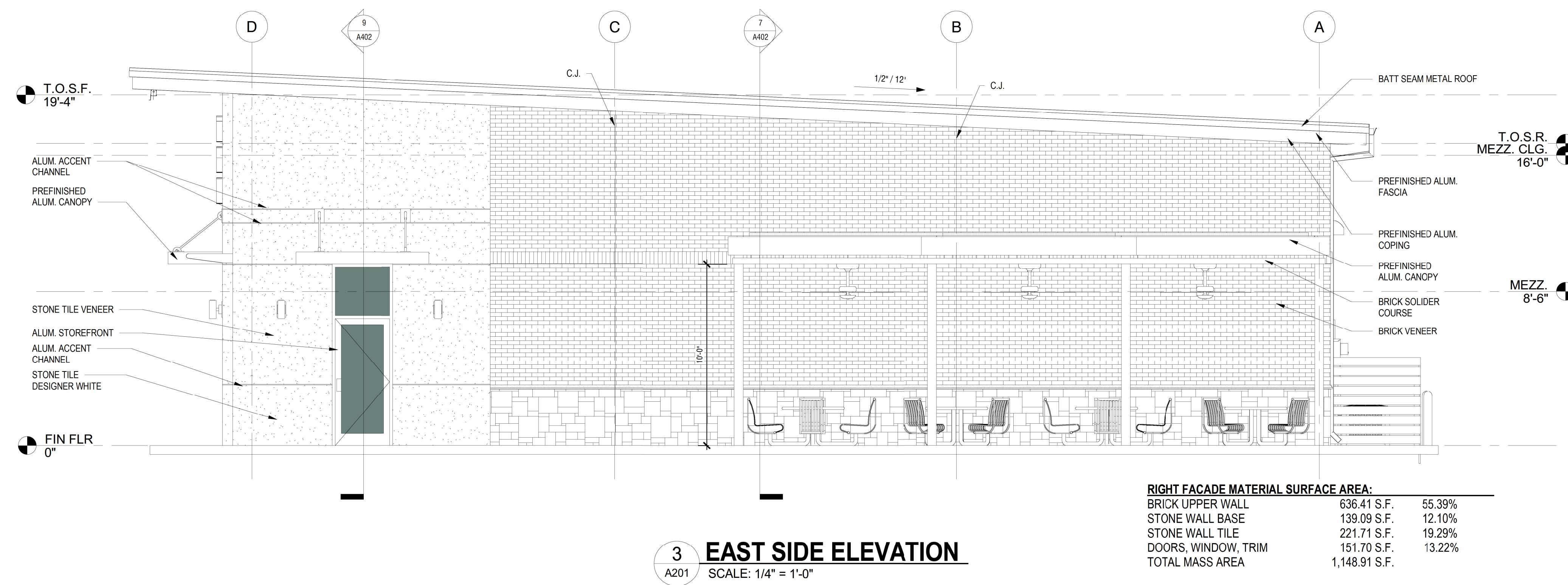


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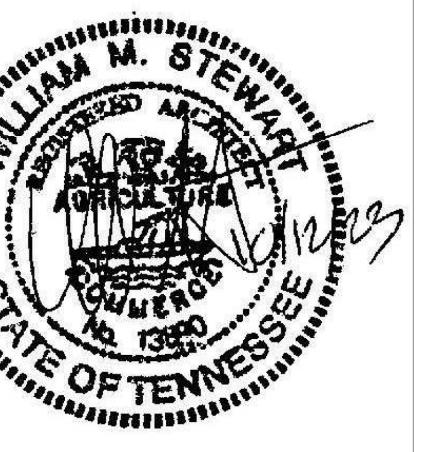


RETAIL CENTER EXTERIOR MATERIALS:			
BRICK VENEER ONE MANUFACTURE: TAYLOR CLAY STYLE / SIZE: 1600'X6' ALUMINUM COLOR: PEARL GRAY ACCESSORY: WEDGE SUN CONTROL LOUVER	STOREFRONT MANUFACTURE: KAWNEER STYLE / SIZE: 1600'X6' ALUMINUM COLOR: CLEAR ANODIZED ACCESSORY: 36' WEDGE SUN CONTROL LOUVER	ALUM. FASCIA CORNICE MANUFACTURE: T.B.D. STYLE / SIZE: T.B.D. COLOR: CLEAR ANODIZED FINISH: SATIN	
WAINSCOT ACCENT MANUFACTURE: ROCKCAST COLOR: BUFFSTONE MORTAR COLOR: TYPE "N"	GLAZING MANUFACTURE: PPG STYLE / SIZE: 1" INSULATED LOW-E COLOR: LITE GREY	ALUM. AWNINGS MANUFACTURE: T.B.D. STYLE / SIZE: ALUMINUM COLOR: CLEAR ANODIZED REMARK: 3'0" OVERHANG	
STONE VENEER MANUFACTURE: ARRISRAFT STYLE / SIZE: MULTIPLE COLOR: BEECH MOUNTAIN MORTAR COLOR: TYPE "N"	ALUM CANOPY MANUFACTURE: T.B.D. STYLE / SIZE: T.B.D. COLOR: CLEAR ANODIZED REMARK: FAUX WOOD BLADE SOFFIT	UP & DOWNLIGHTS MANUFACTURE: T.B.D. STYLE / SIZE: T.B.D. COLOR: CLEAR ANODIZED	
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A2.01

10/12/2023

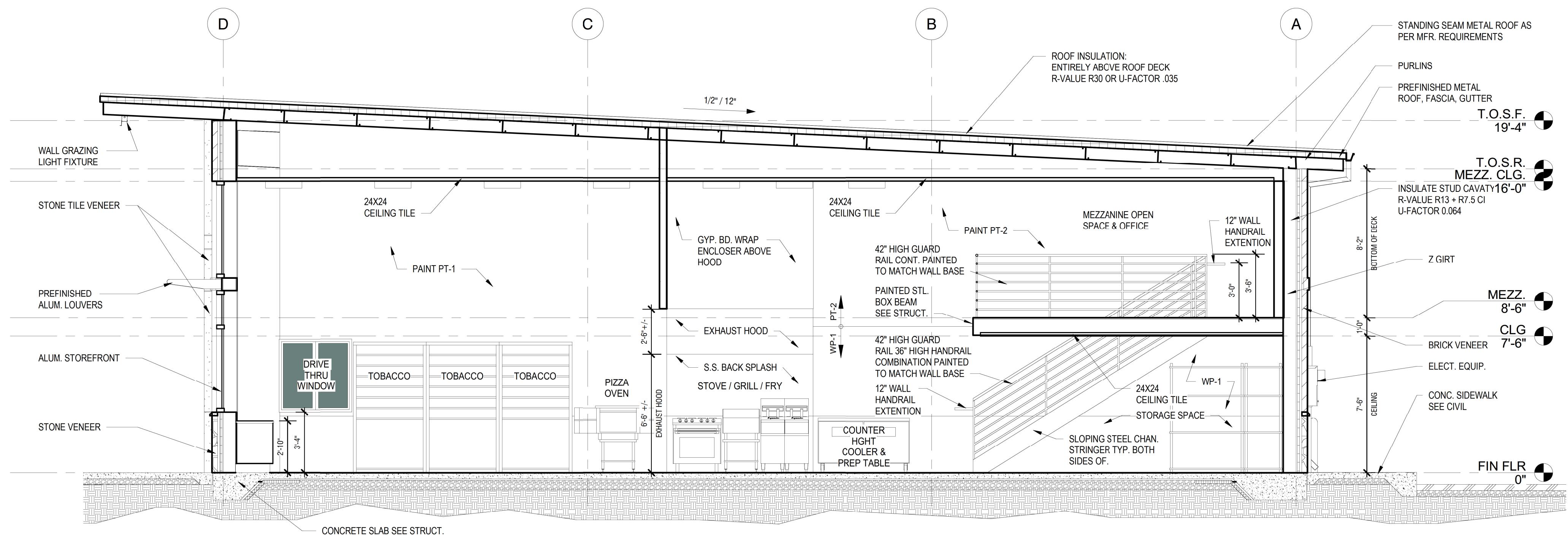


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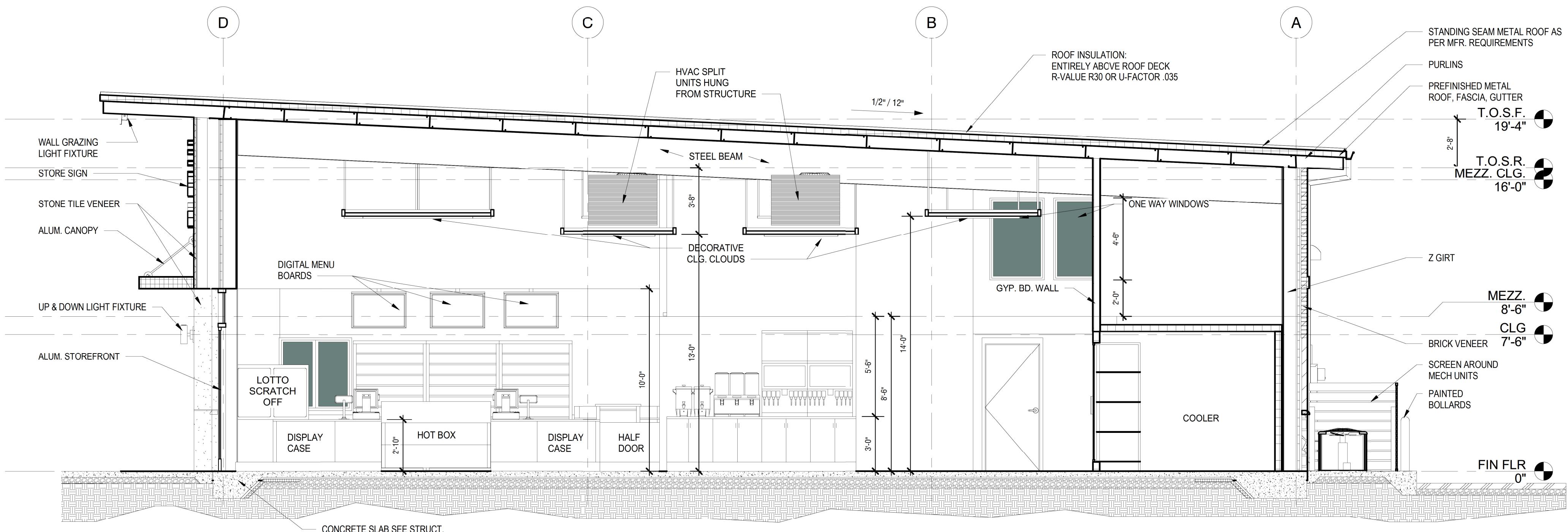
STEWART CREEK STATION

SMYRNA, TENNESSEE



BUILDING SECTION AT MEZZANINE
A300
SCALE: 1/4" = 1'-0"

STAIR GUIDELINE:
DESIGNER QUALIFICATIONS: STRUCTURAL CALCULATIONS AND SHOP DRAWINGS
SHALL BE PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN TENNESSEE
AND EXPERIENCED IN STRUCTURAL DESIGN OF STEEL STAIR AND
HANDRAIL/GUARDRAIL SYSTEMS TO WITHSTAND APPLICABLE DESIGN LOADS



BLDG SECT HVAC CLOUD
A300
SCALE: 1/4" = 1'-0"

10/12/2023

A3.00



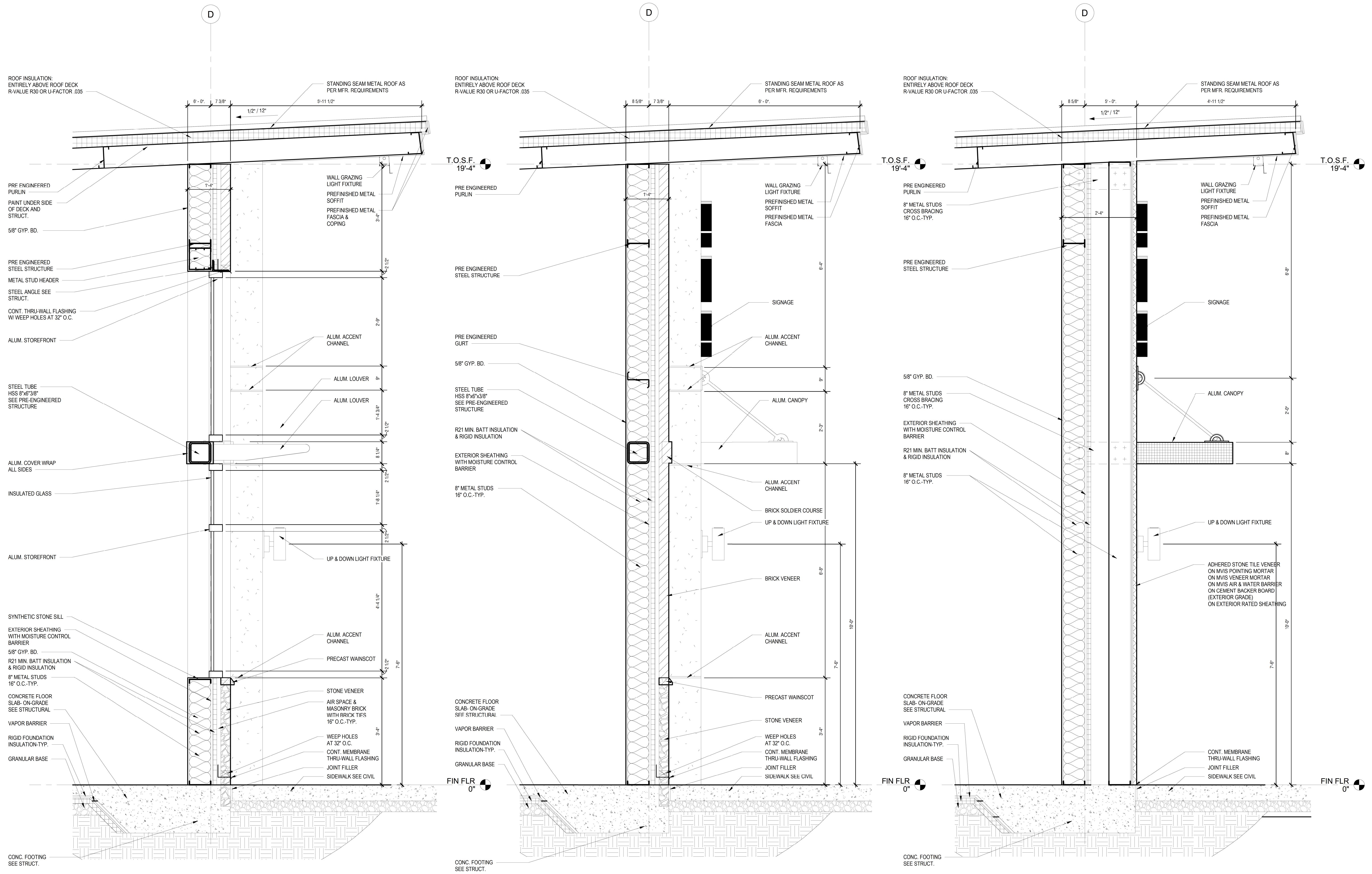
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STEWART CREEK STATION

SMYRNA, TENNESSEE

10/12/2023



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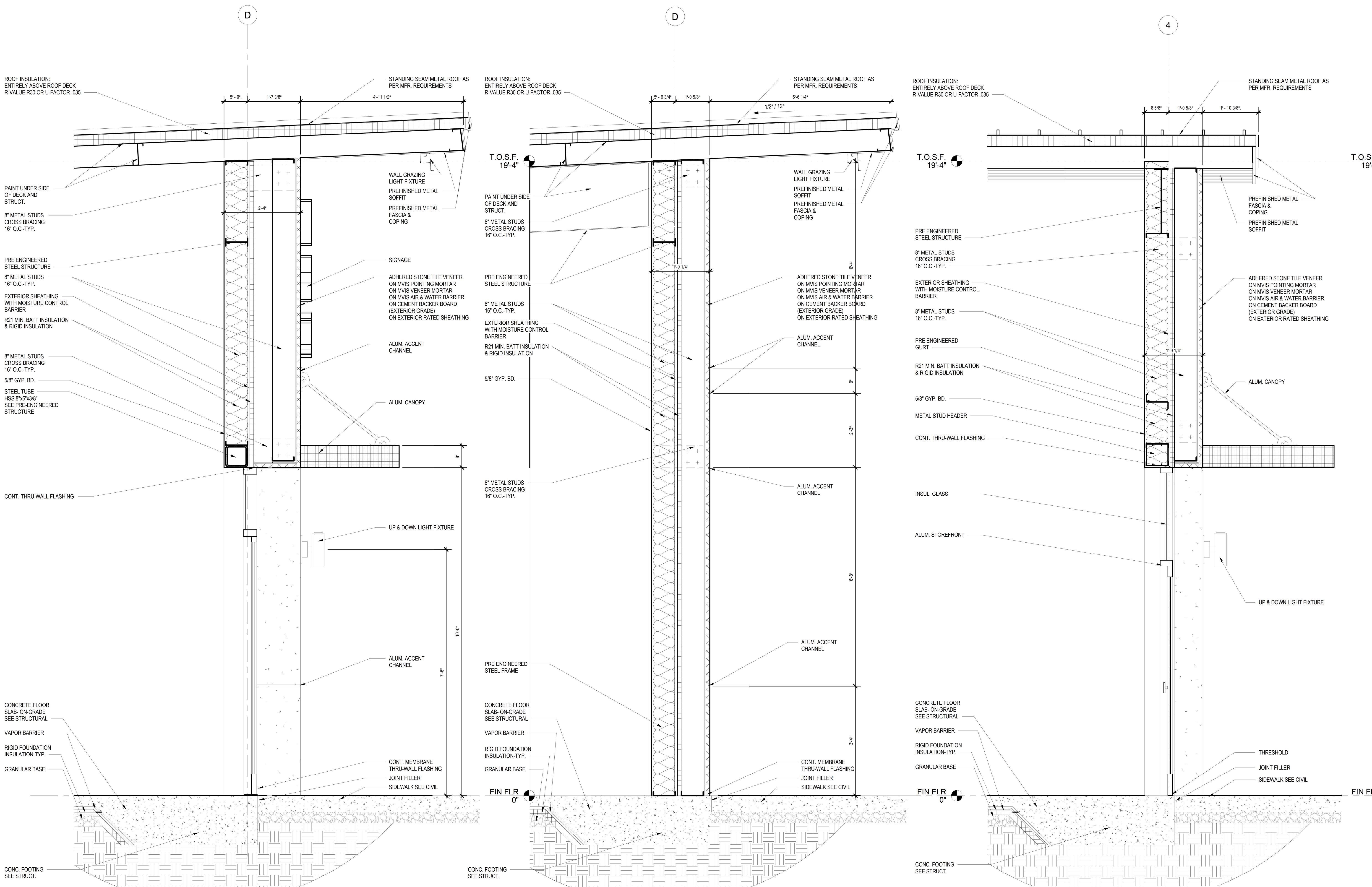


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540 Grove Isle Cir. 103
Vero Beach, Florida 32962

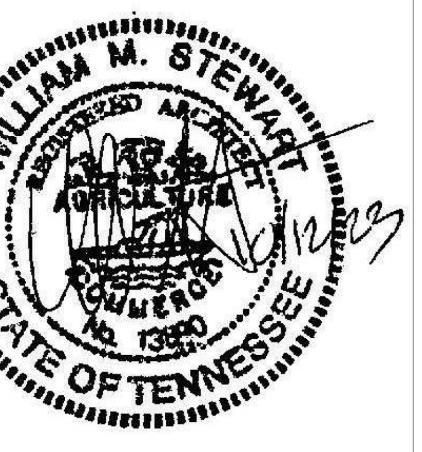
**STEWART CREEK
STATION**
SMYRNA, TENNESSEE

10/12/2023



6
A401
SCALE: 3/4" = 1'-0"

A4.01

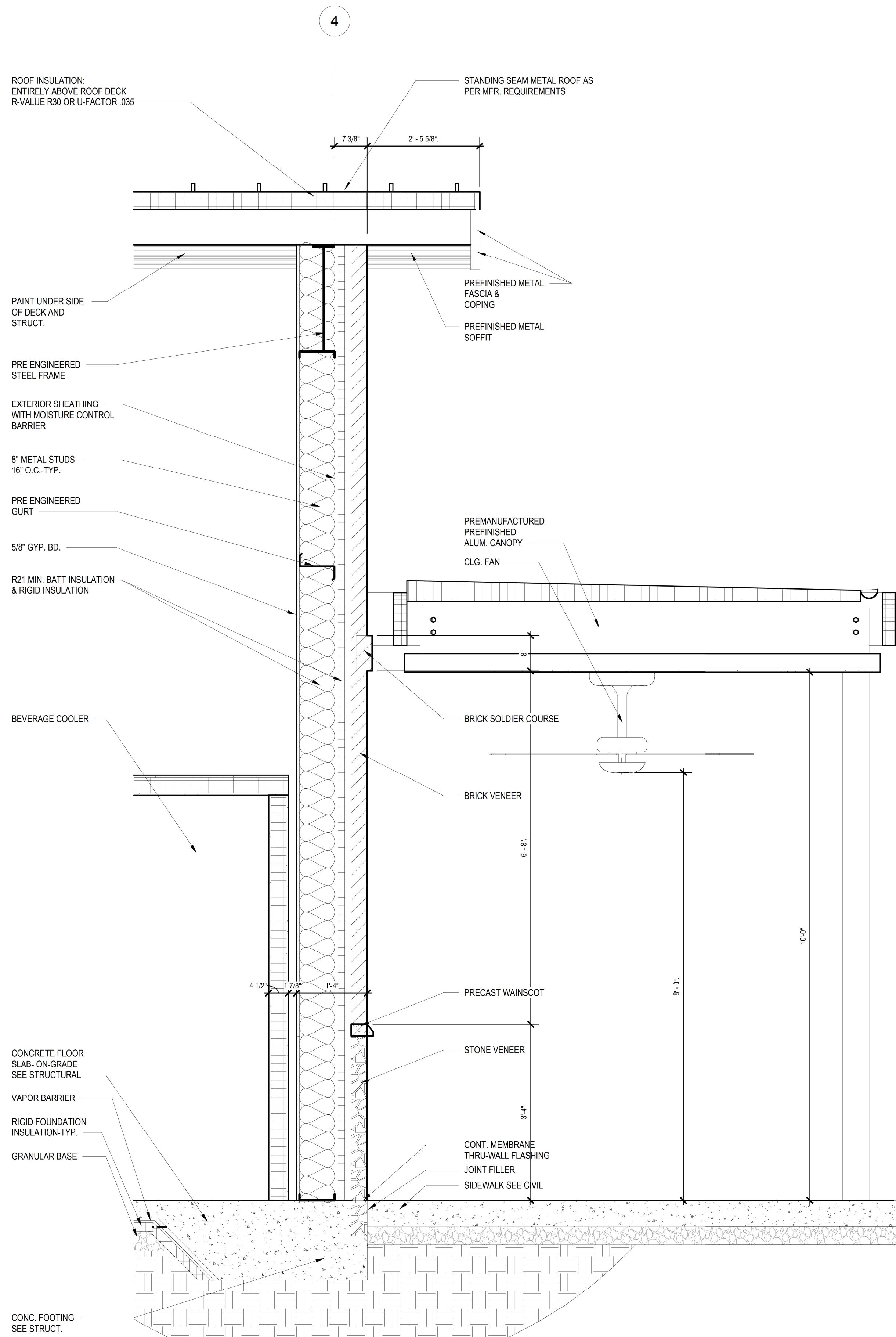


W. Michael Stewart
Architect

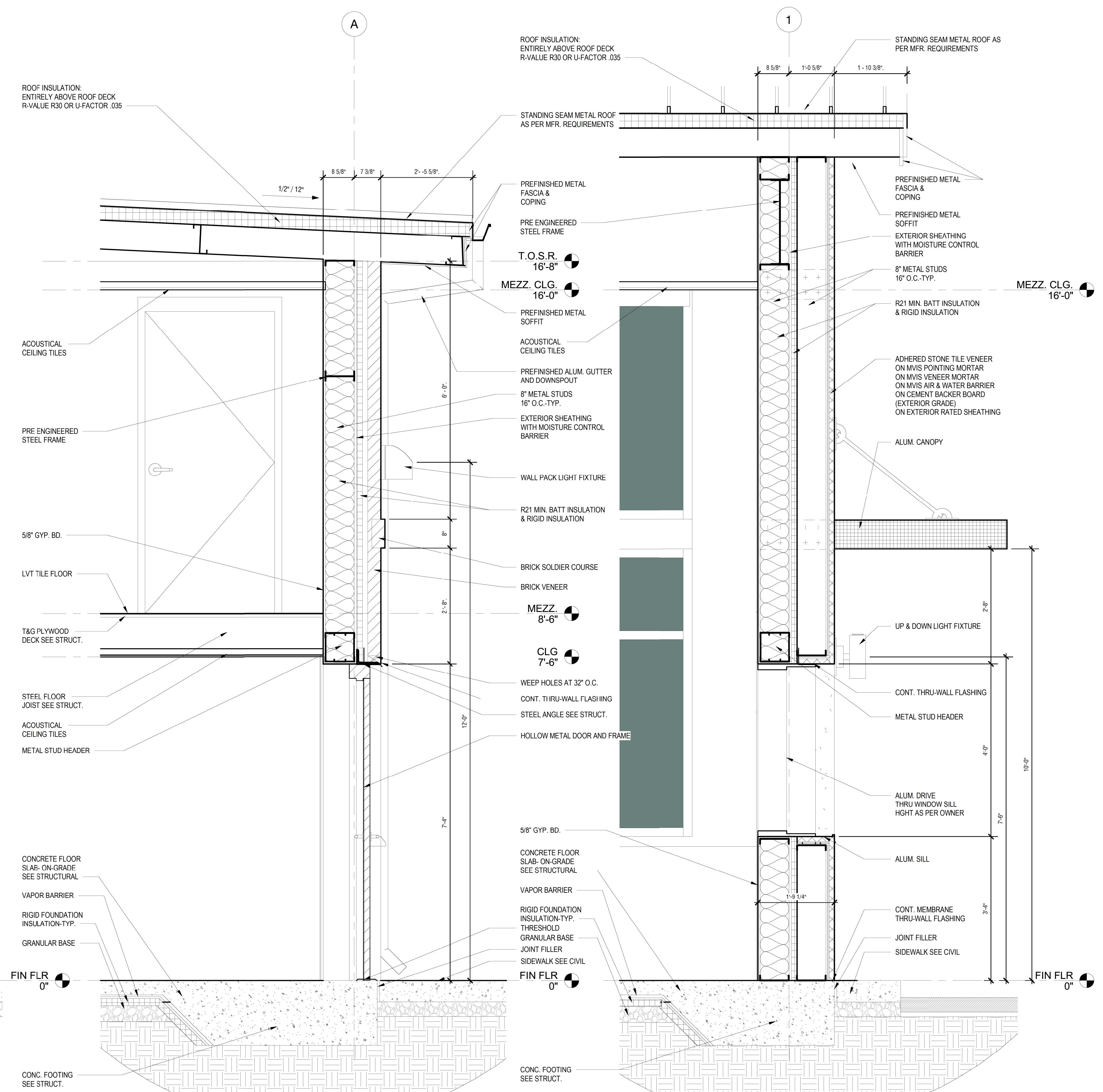
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**STEWART CREEK
STATION**
SMYRNA, TENNESSEE

10/12/2023



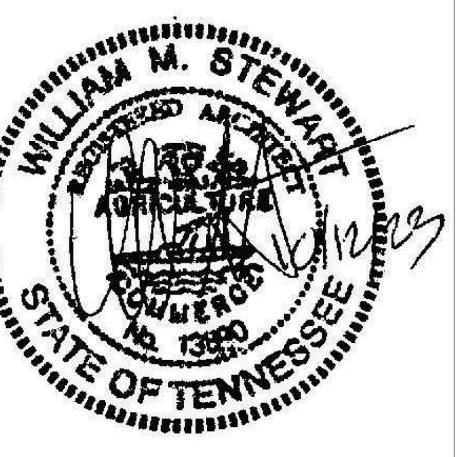
7 WALL SECTION THRU SIDE WALL
A402 SCALE: 3/4" = 1'-0"



8 WALL SECTION THRU REAR WALL
A402 SCALE: 3/4" = 1'-0"

9 WALL SECTION THRU DRIVE THRU
A402 SCALE: 3/4" = 1'-0"

A4.02



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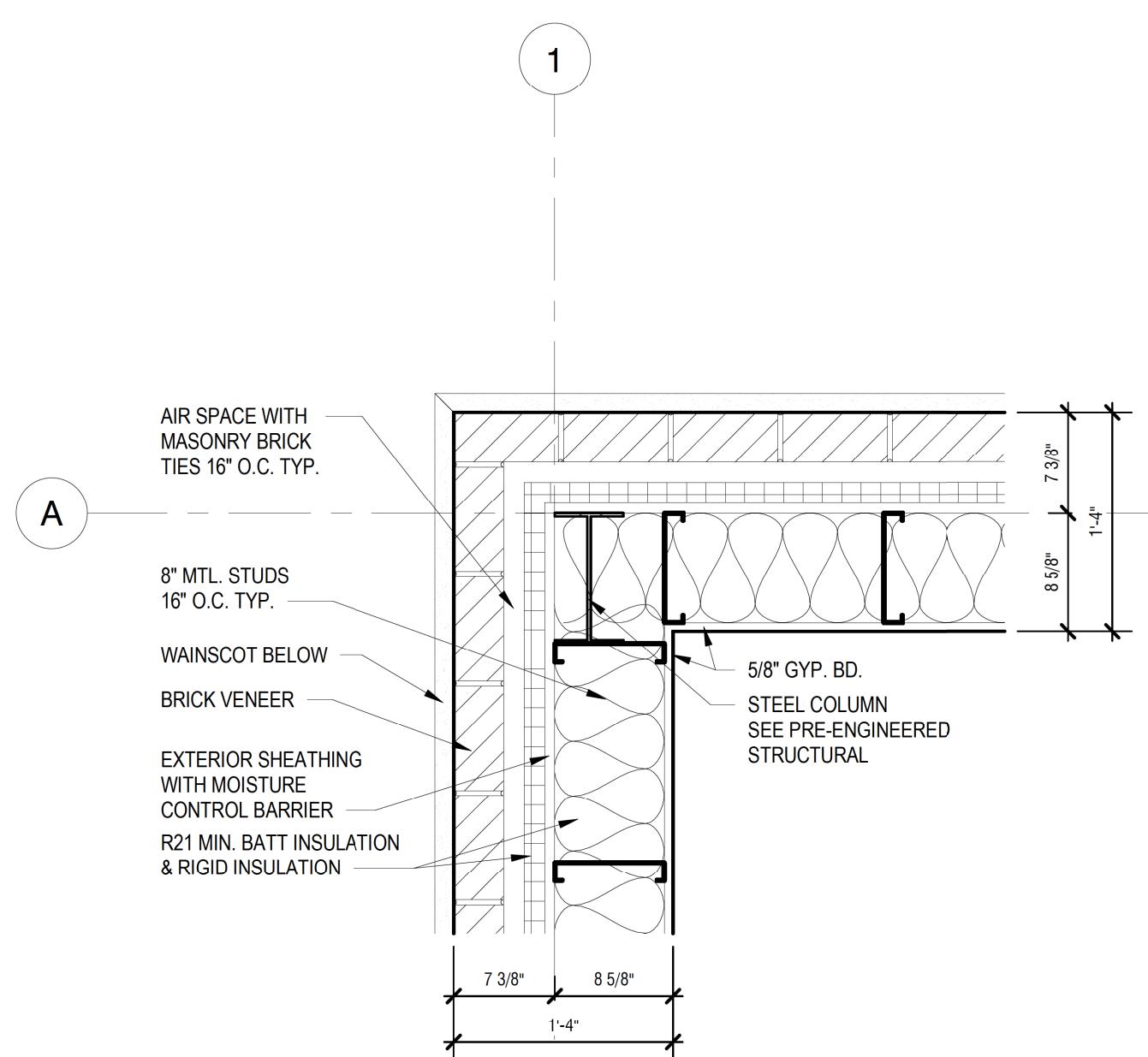
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**STEWART CREEK
STATION**

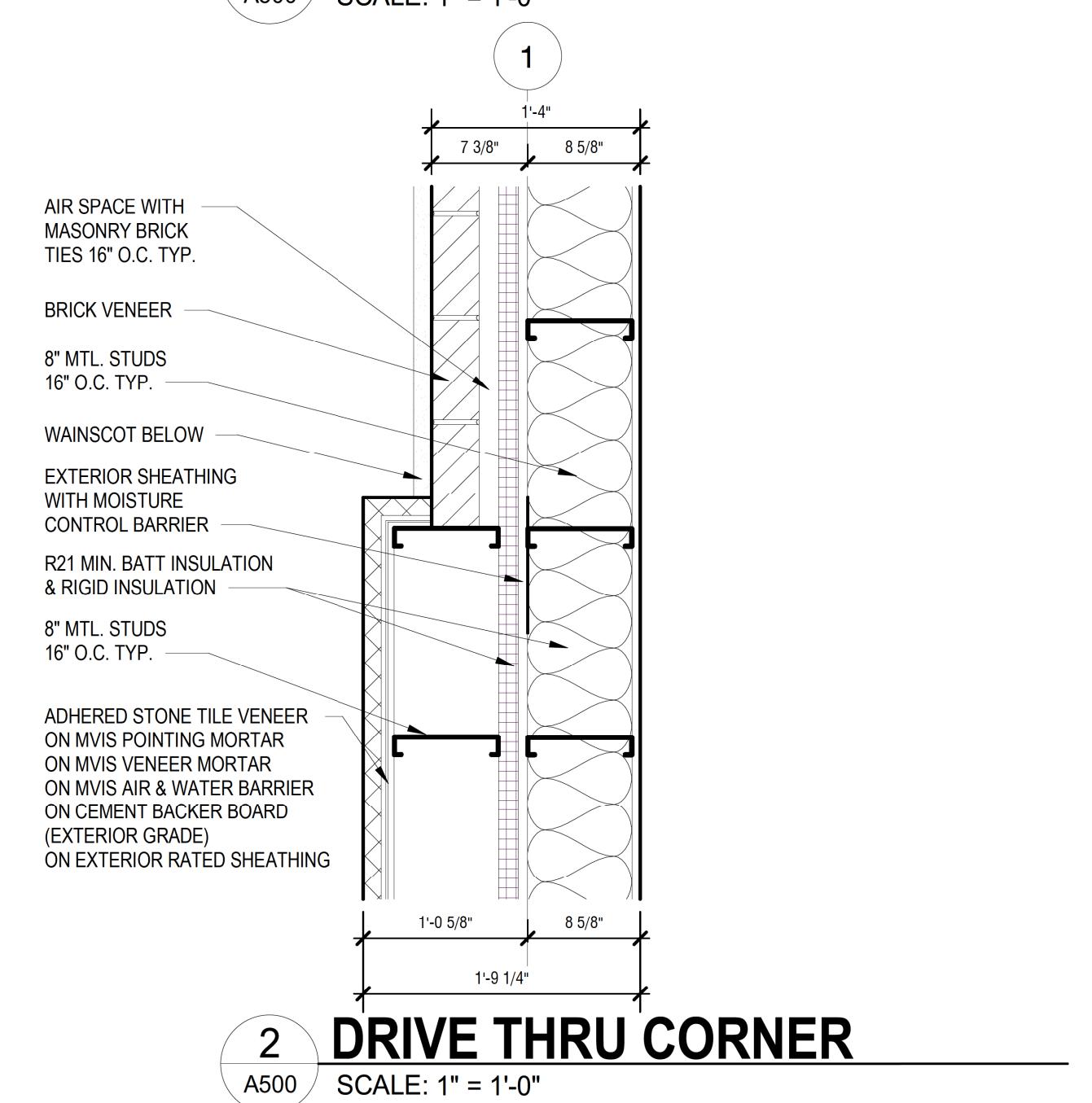
SMYRNA, TENNESSEE

10/12/2023

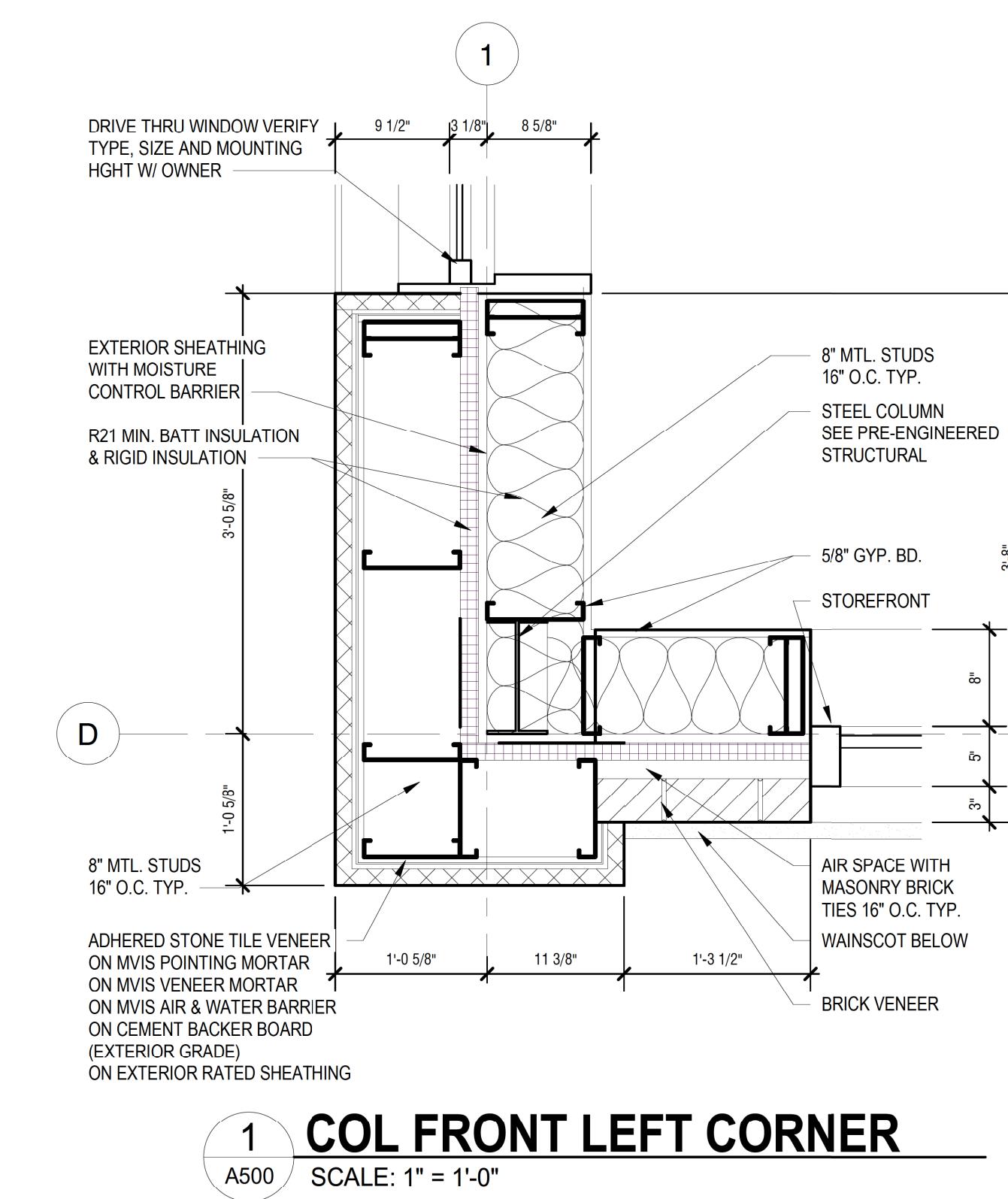
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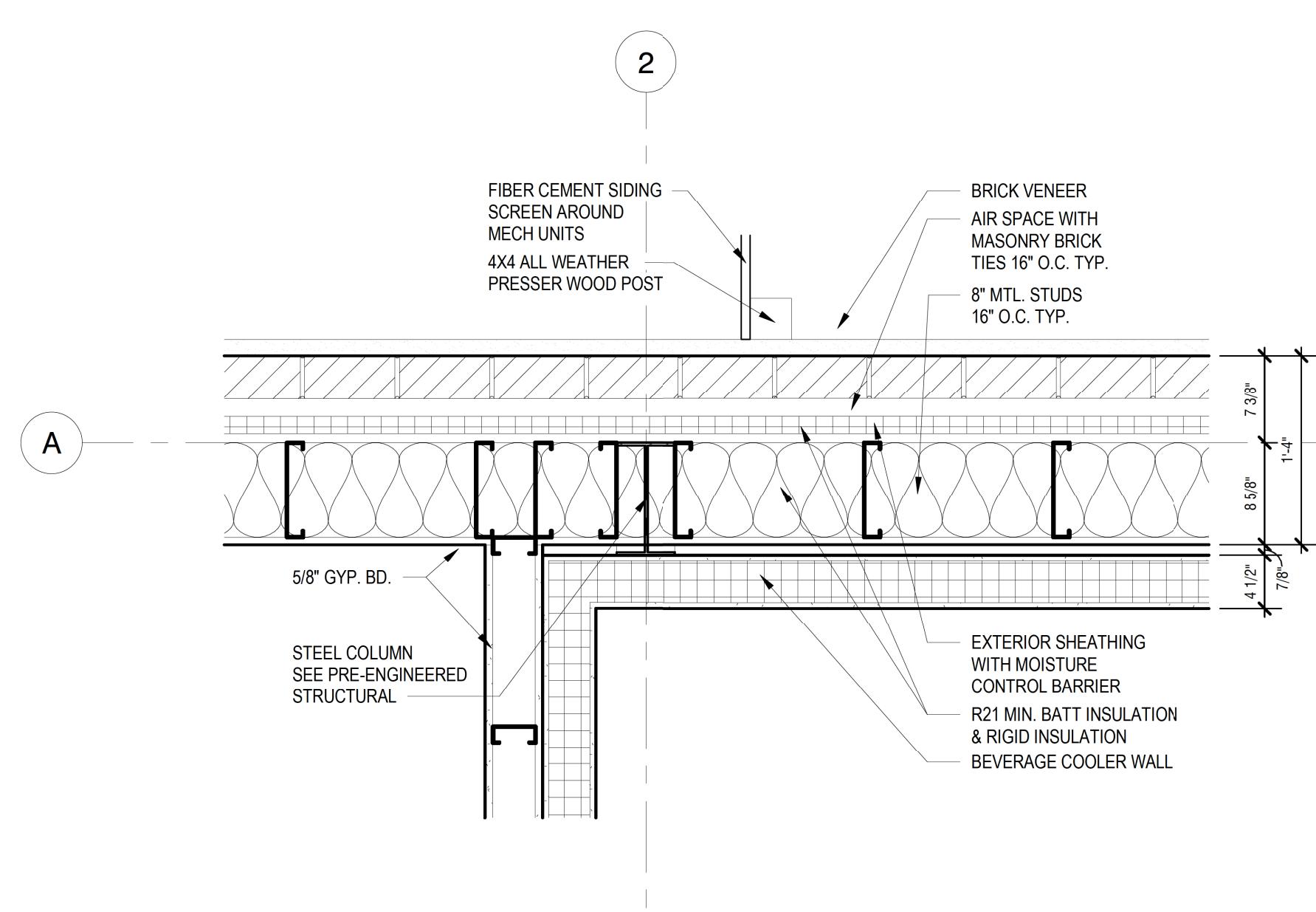
3 COL REAR LEFT CORNER



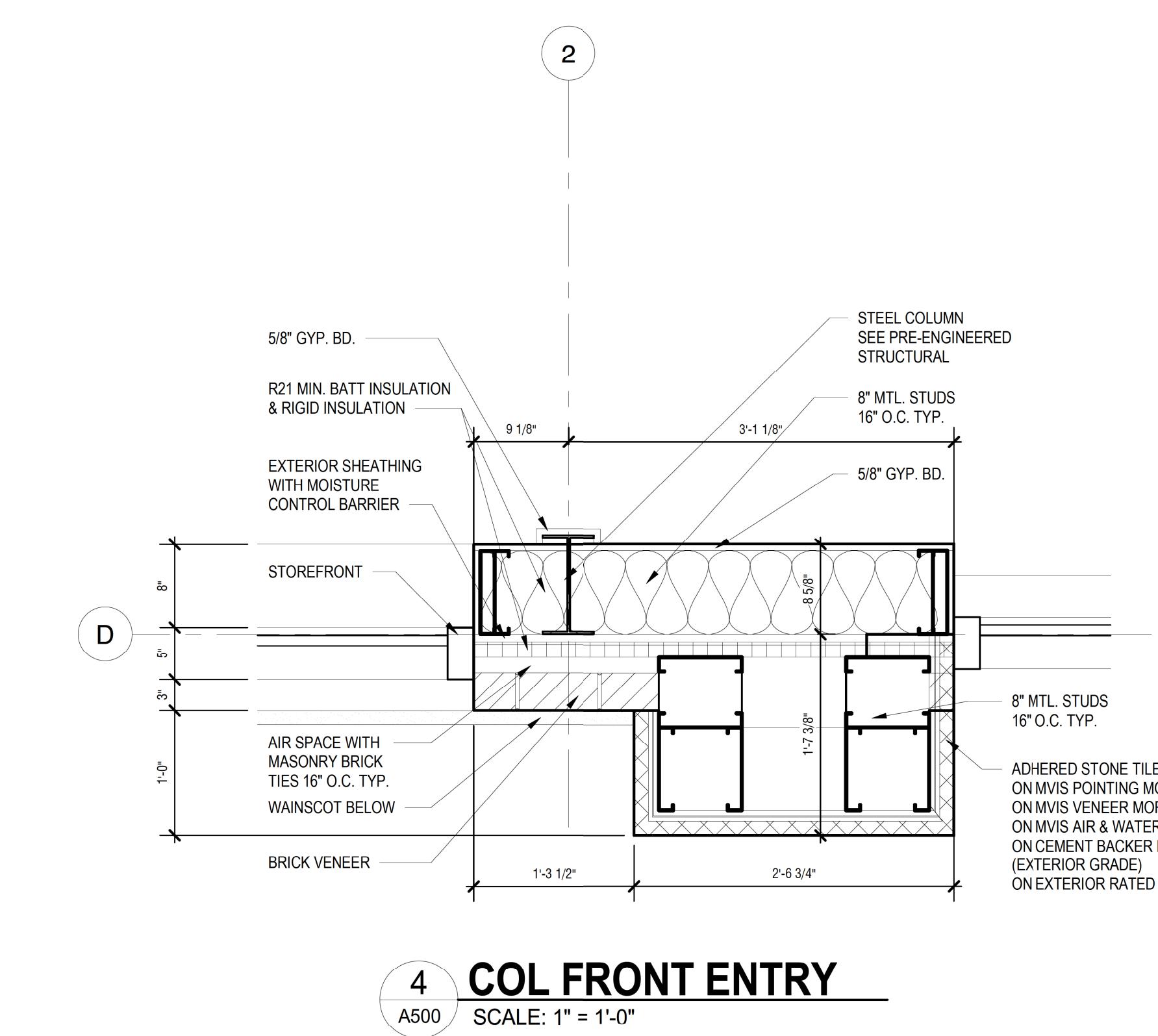
2 DRIVE THRU CORNER



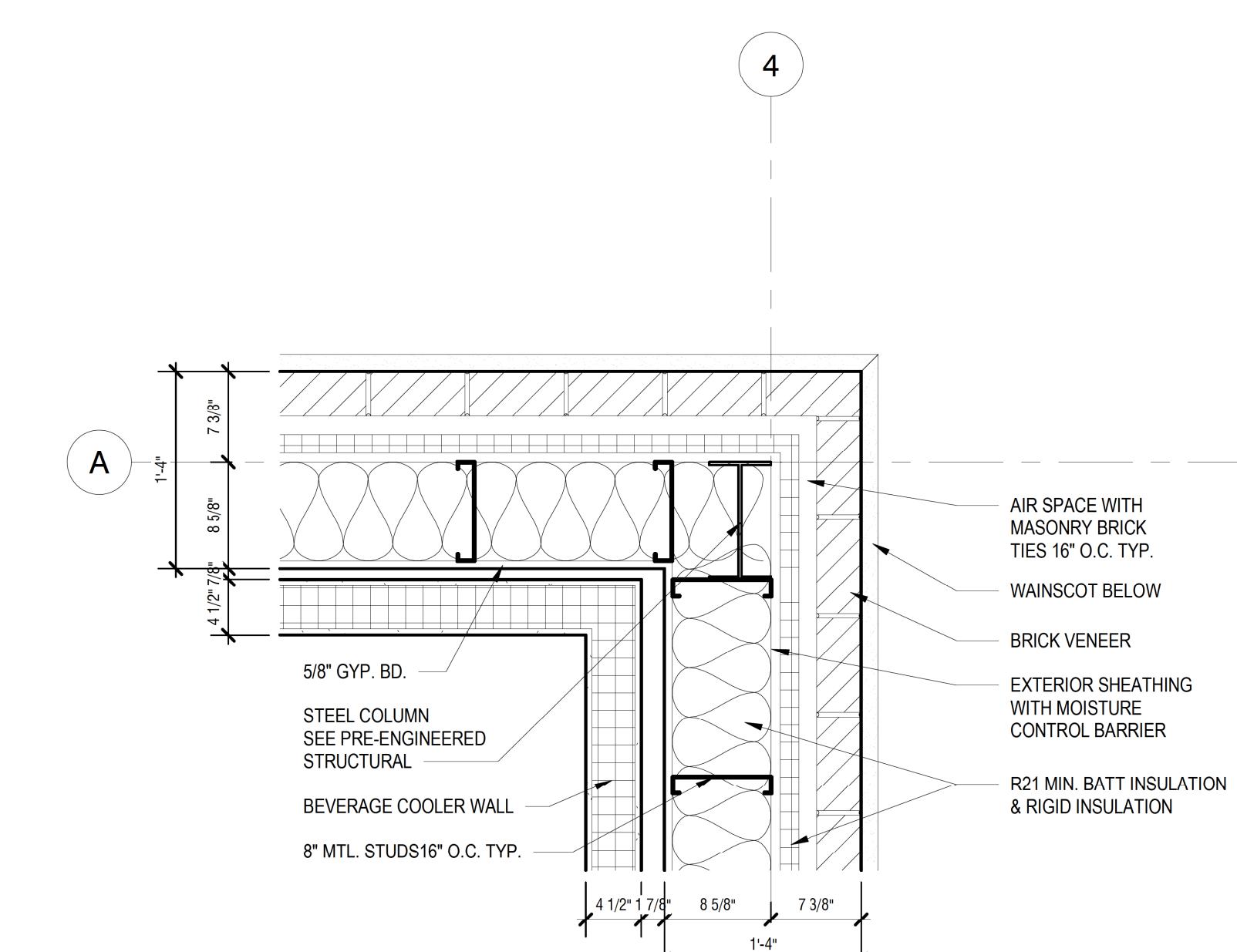
1 COL FRONT LEFT CORNER



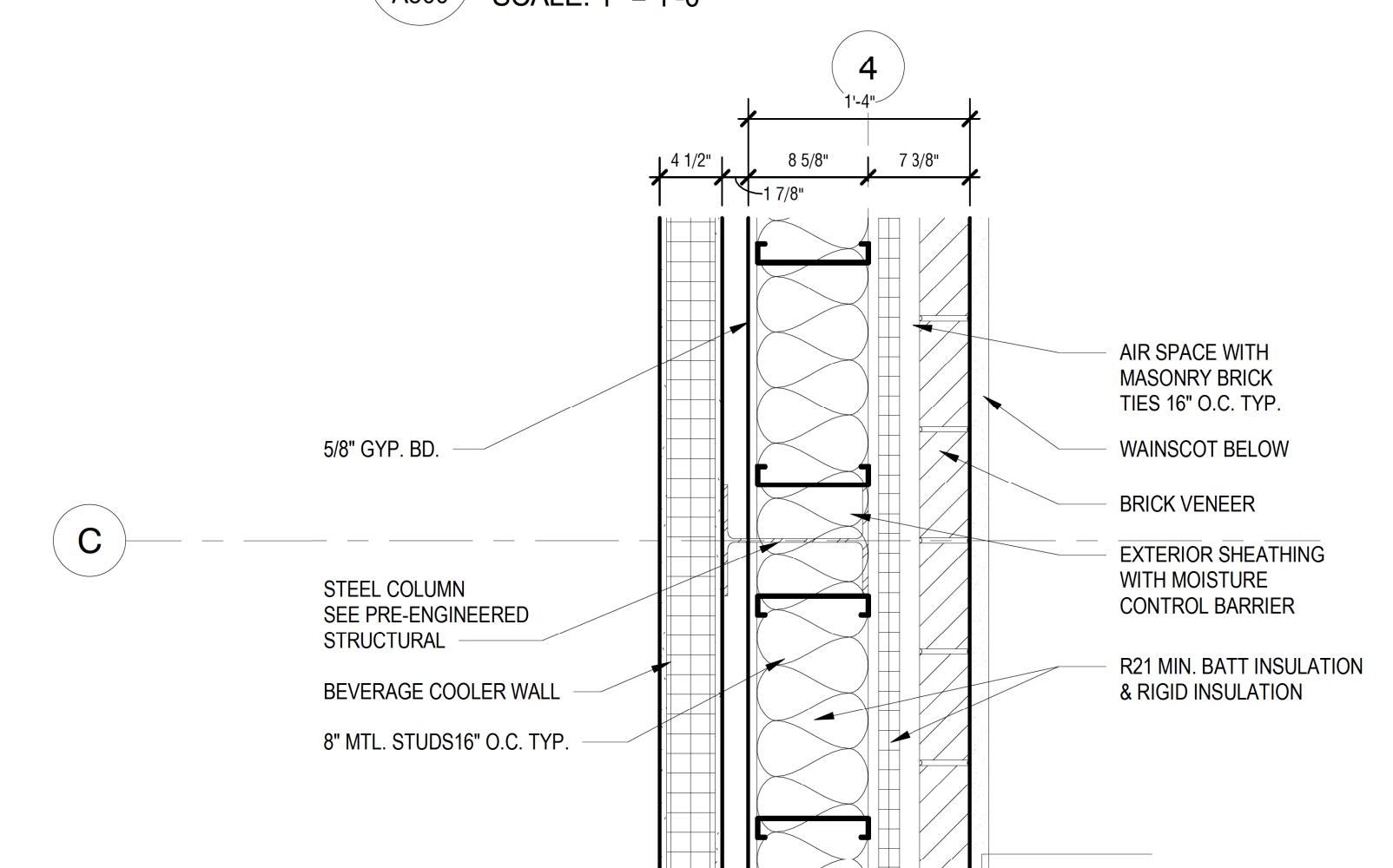
6 COL REAR COOLER



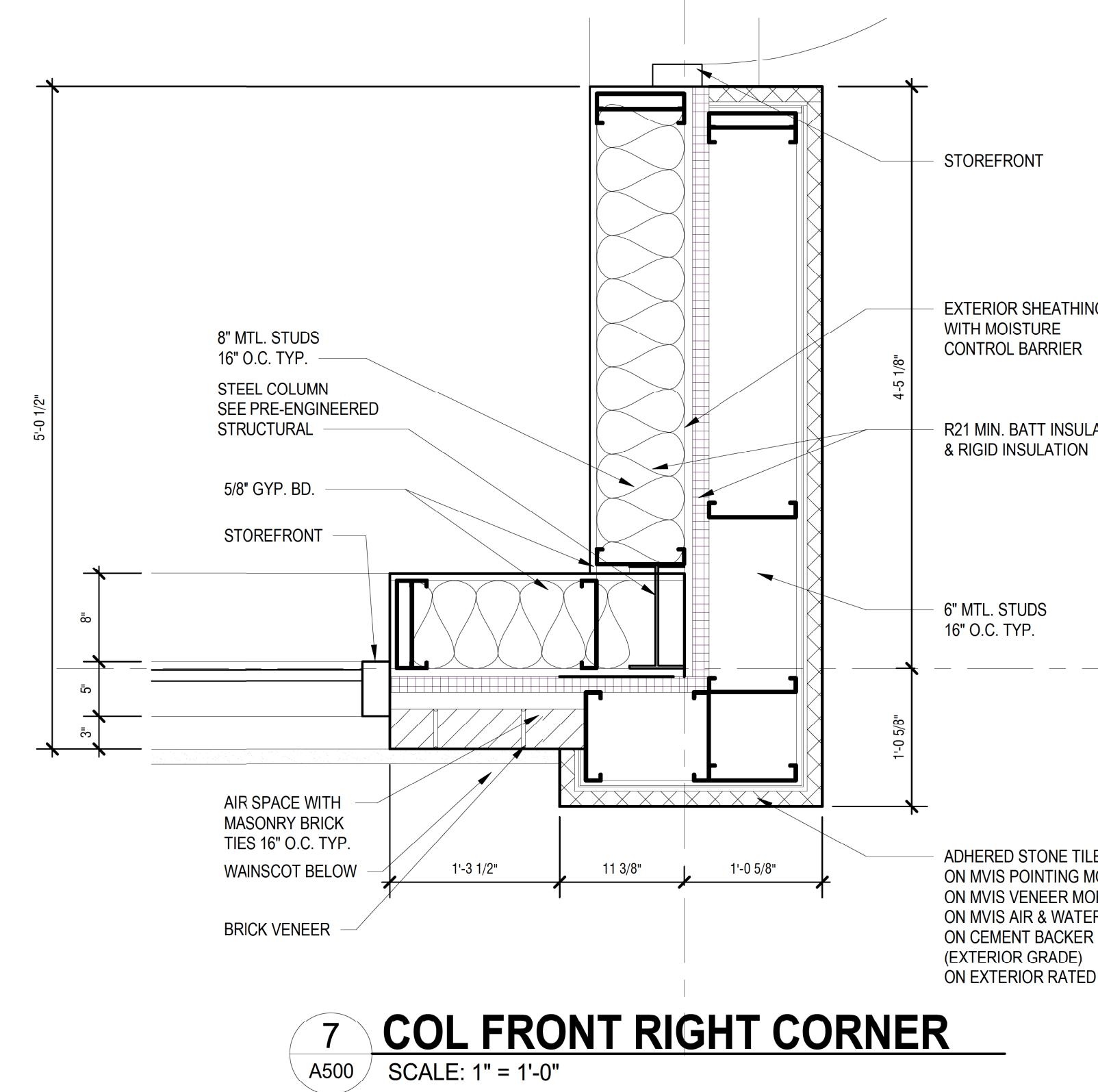
4 COL FRONT ENTRY



9 COL REAR RIGHT CORNER



8 COL AT COOLER WALL



7 COL FRONT RIGHT CORNER



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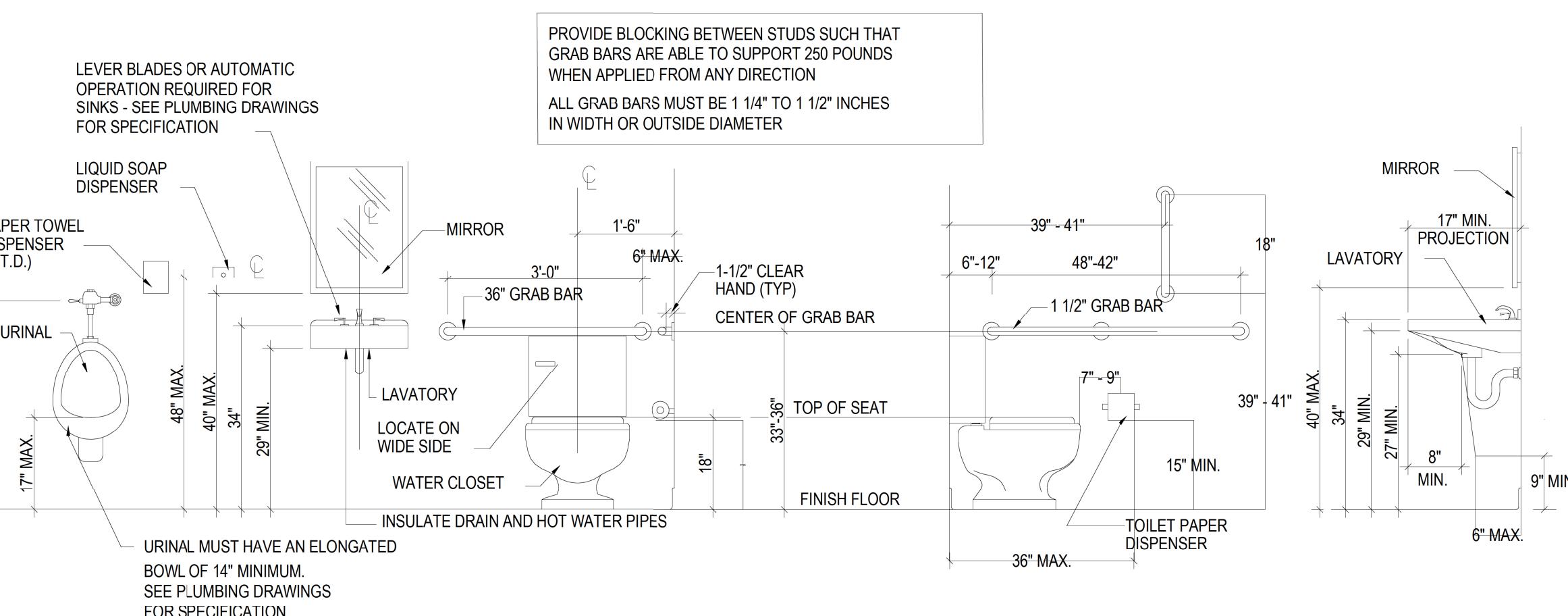
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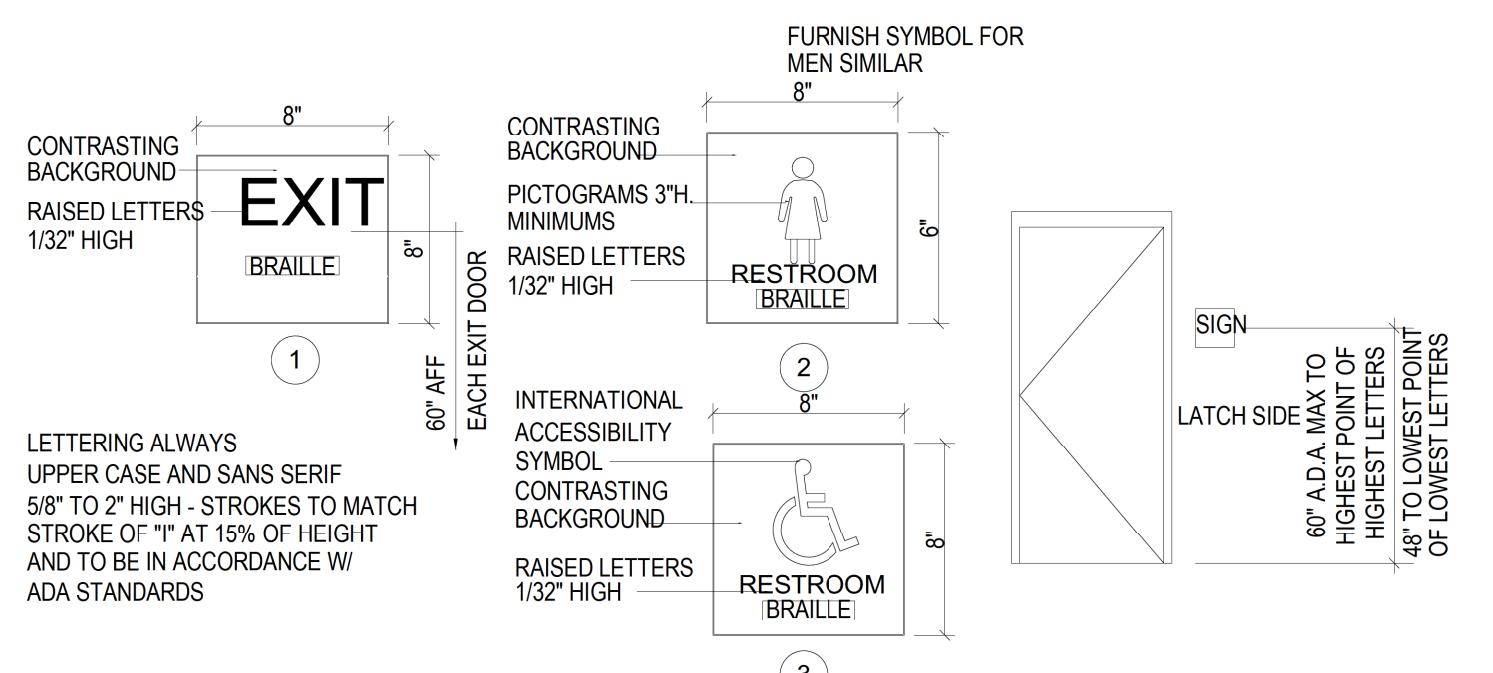
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A5.01



TYPICAL HC. MOUNTING DETAILS

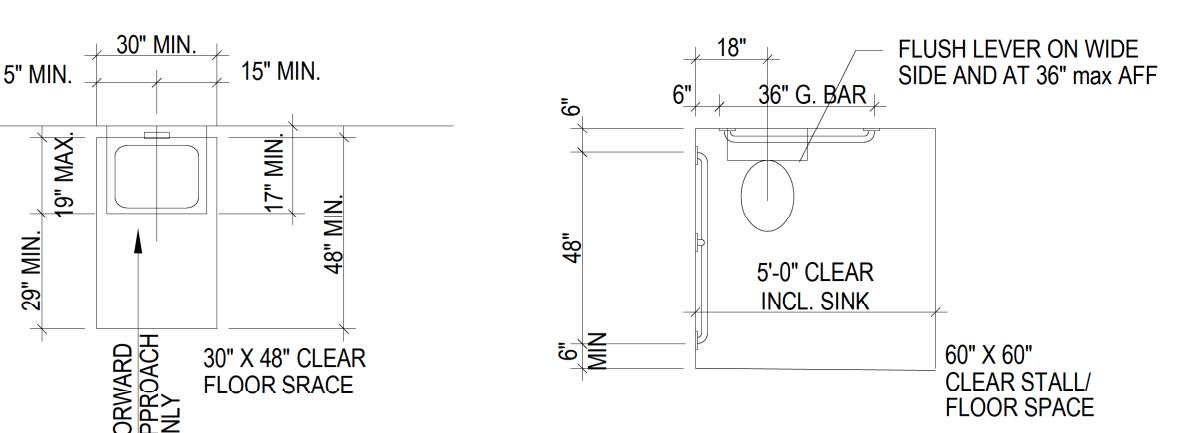
1 AIA MOUNTING HGT
A501 SCALE: 1/8" = 1'-0"



SIGNAGE ELEVATIONS
NOT TO SCALE

MOUNTING HEIGHT
NOT TO SCALE

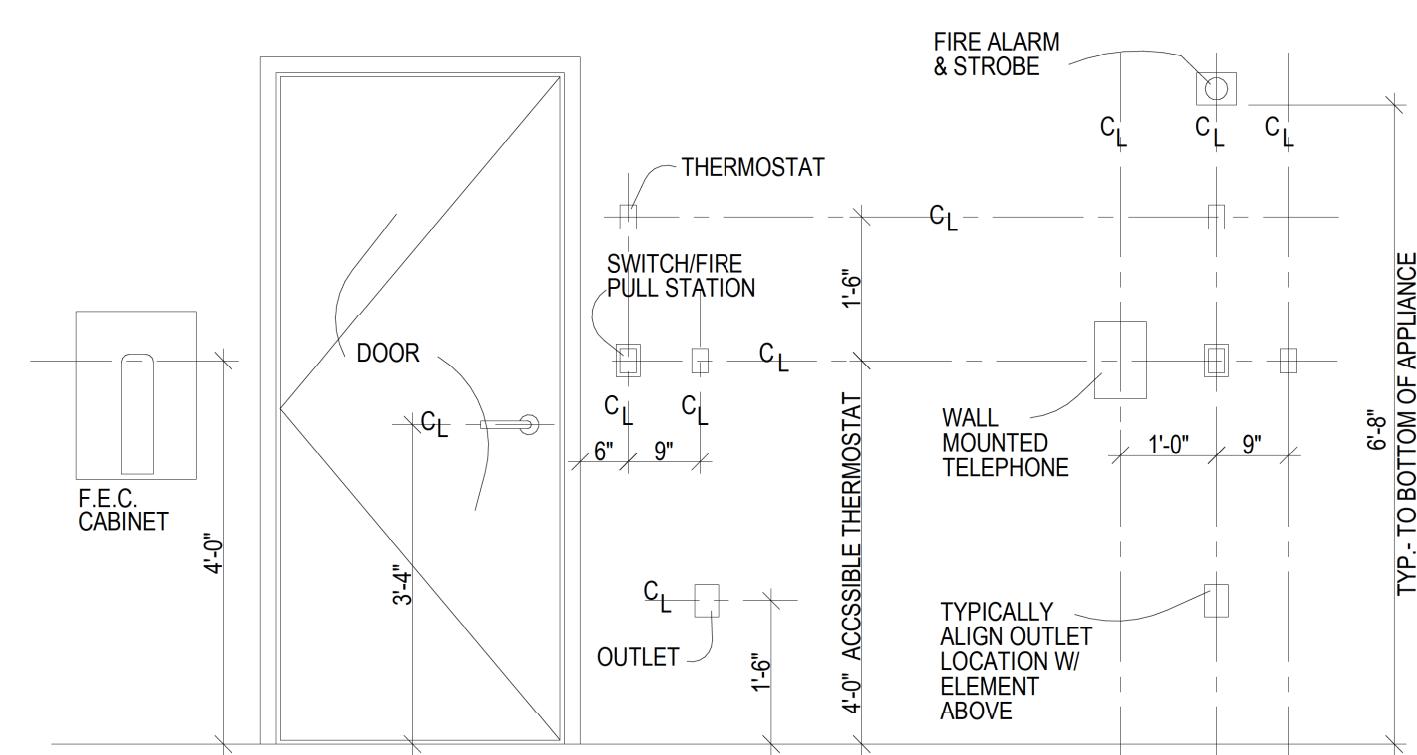
2 ADA SIGNAGE
A501 SCALE: 1/8" = 1'-0"



PLAN AT LAVATORY
NOT TO SCALE

MINIMUM TOILET STALL
NOT TO SCALE

3 ADA TLT PLAN
A501 SCALE: 1/8" = 1'-0"



5 STAIR WALL HANDRAIL
A501 SCALE: 6" = 1'-0"

4 TYP MOUNTING HGT
A501 SCALE: 1/2" = 1'-0"



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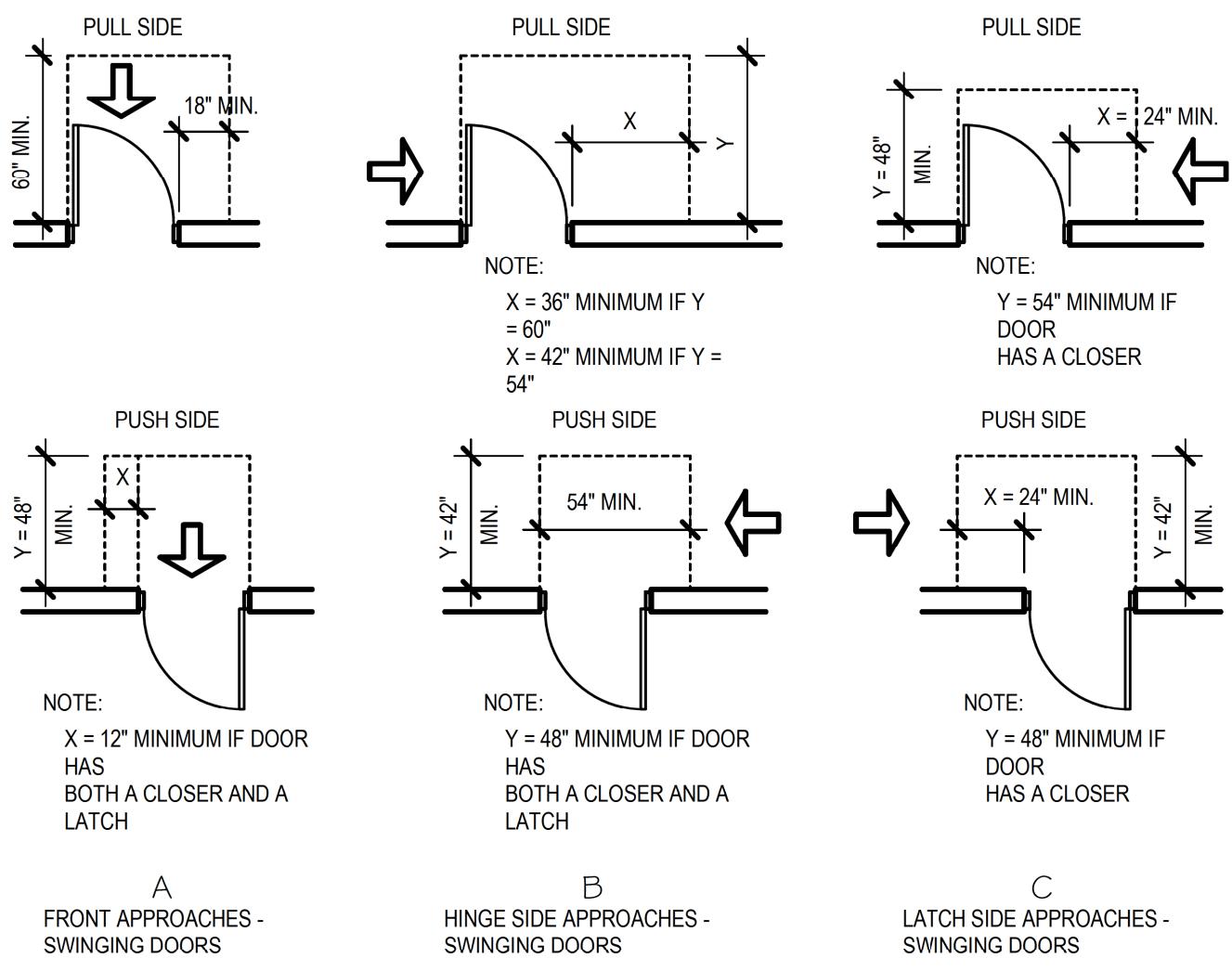
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STEWART CREEK STATION

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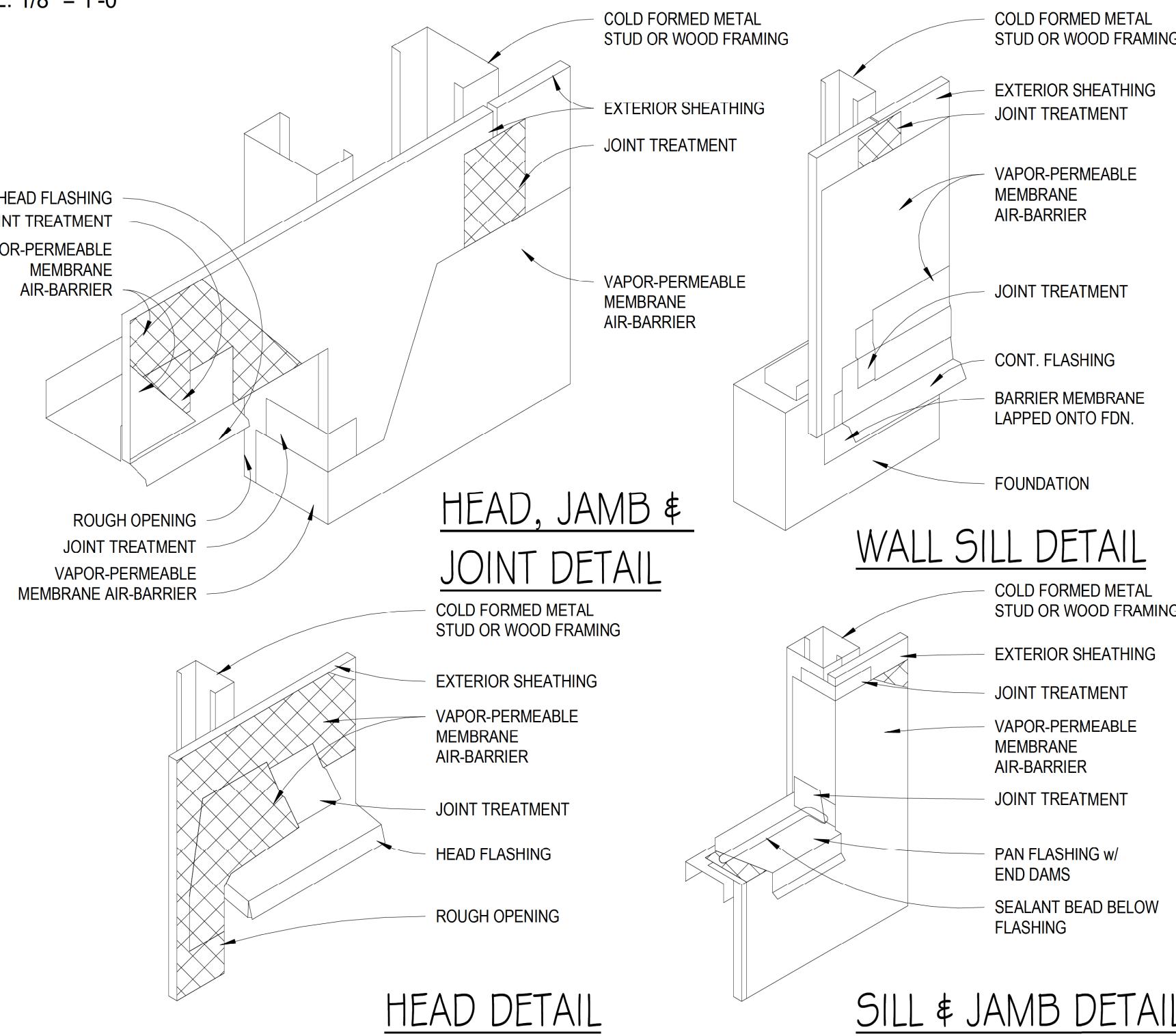
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A6.00



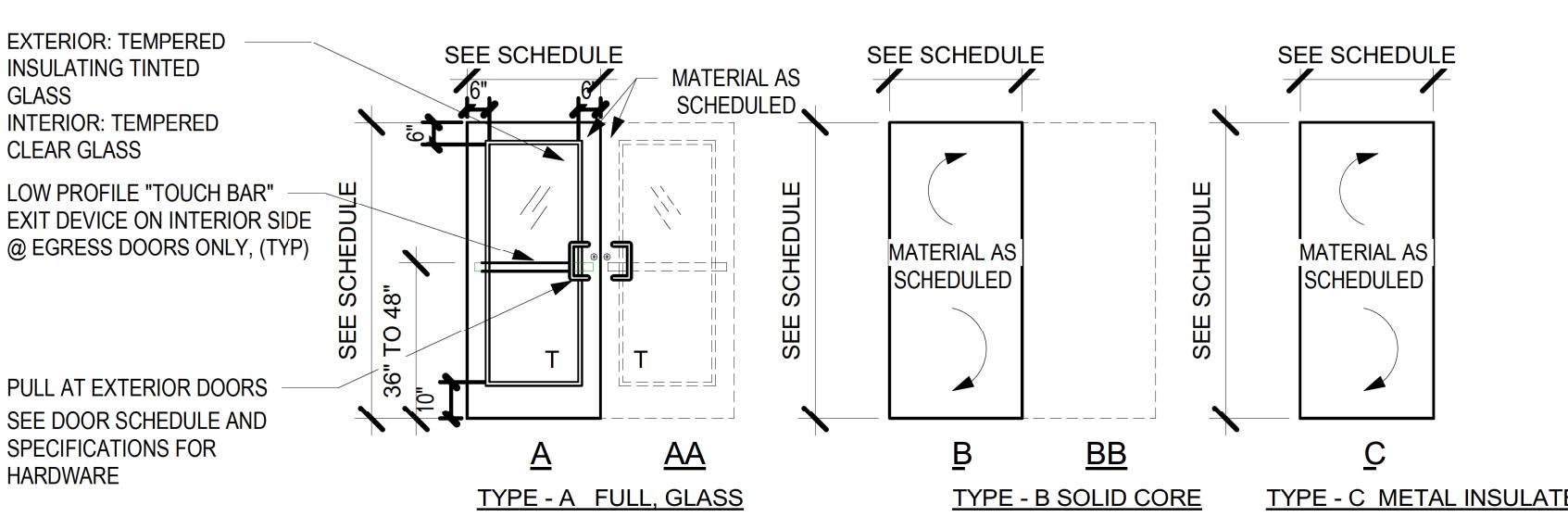
DOOR CLEARANCES

1 A600



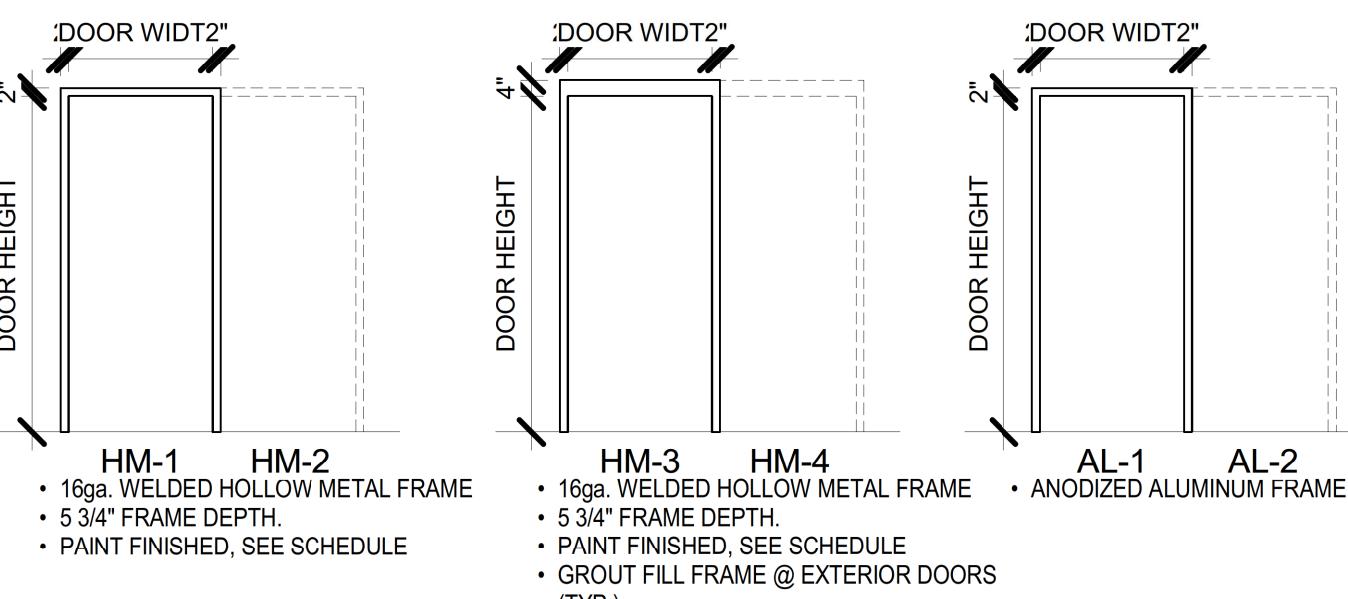
FLASHING DETAIL

2 A600



DOOR TYPE ELEV

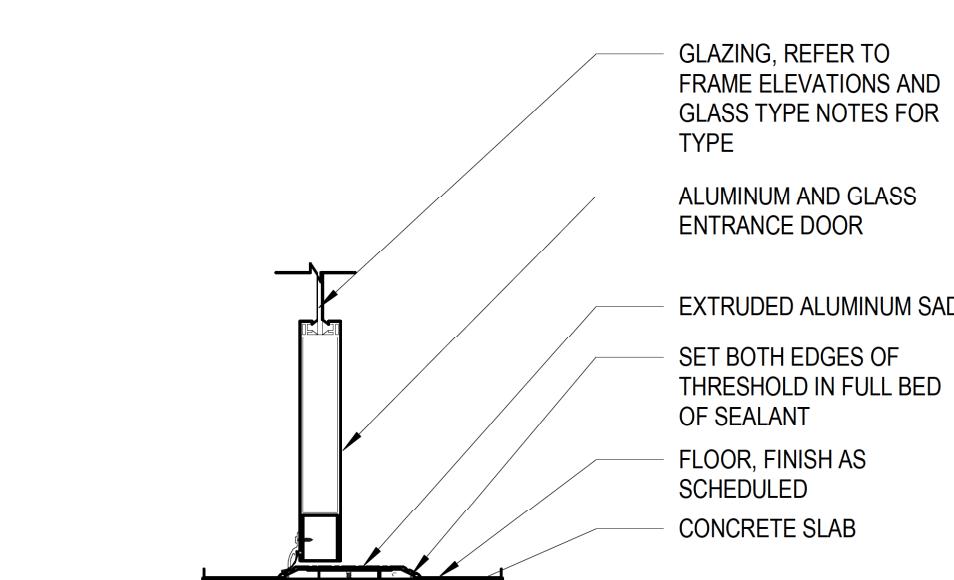
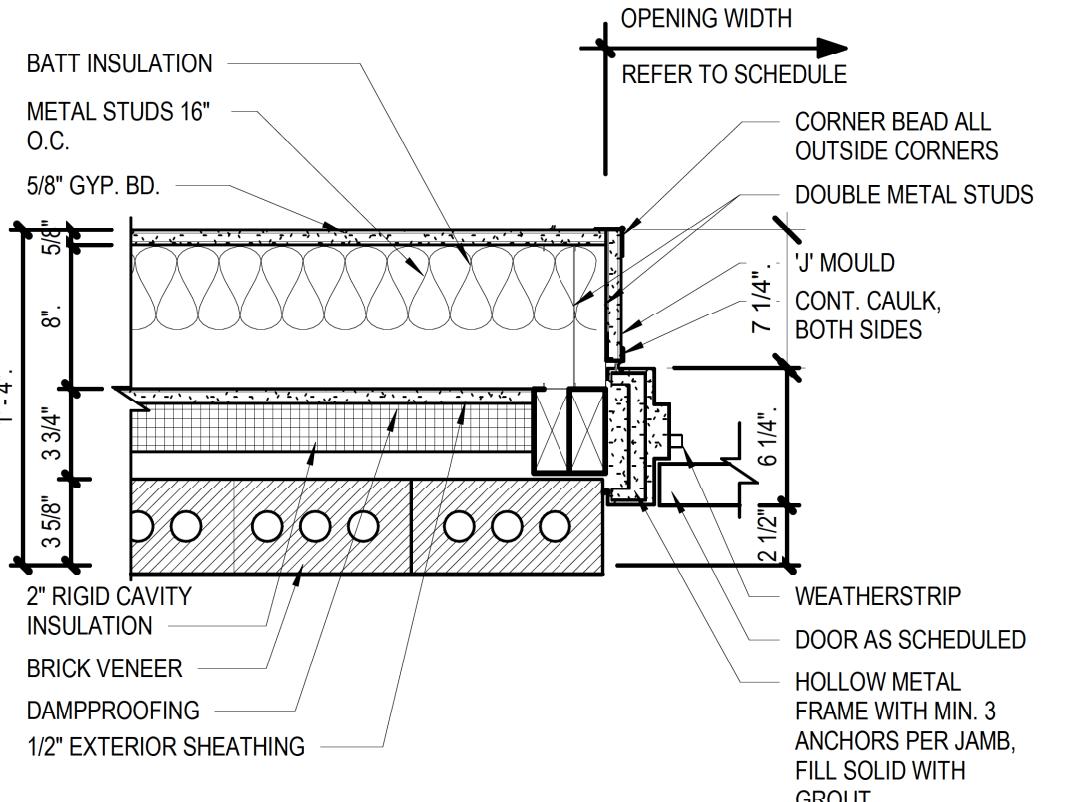
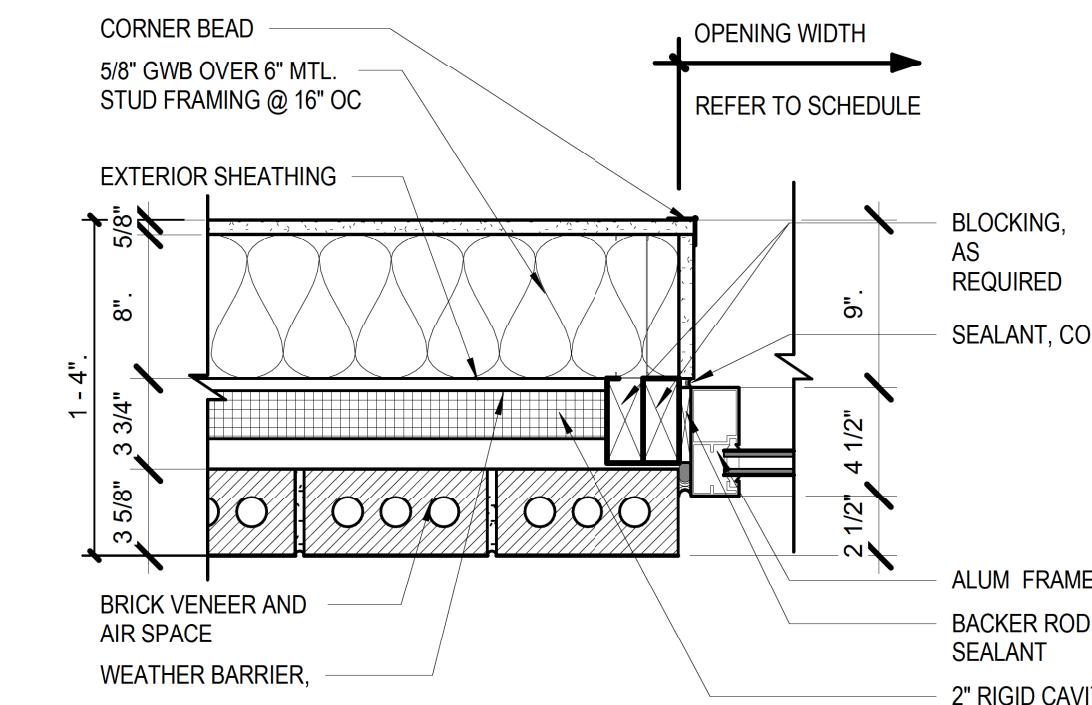
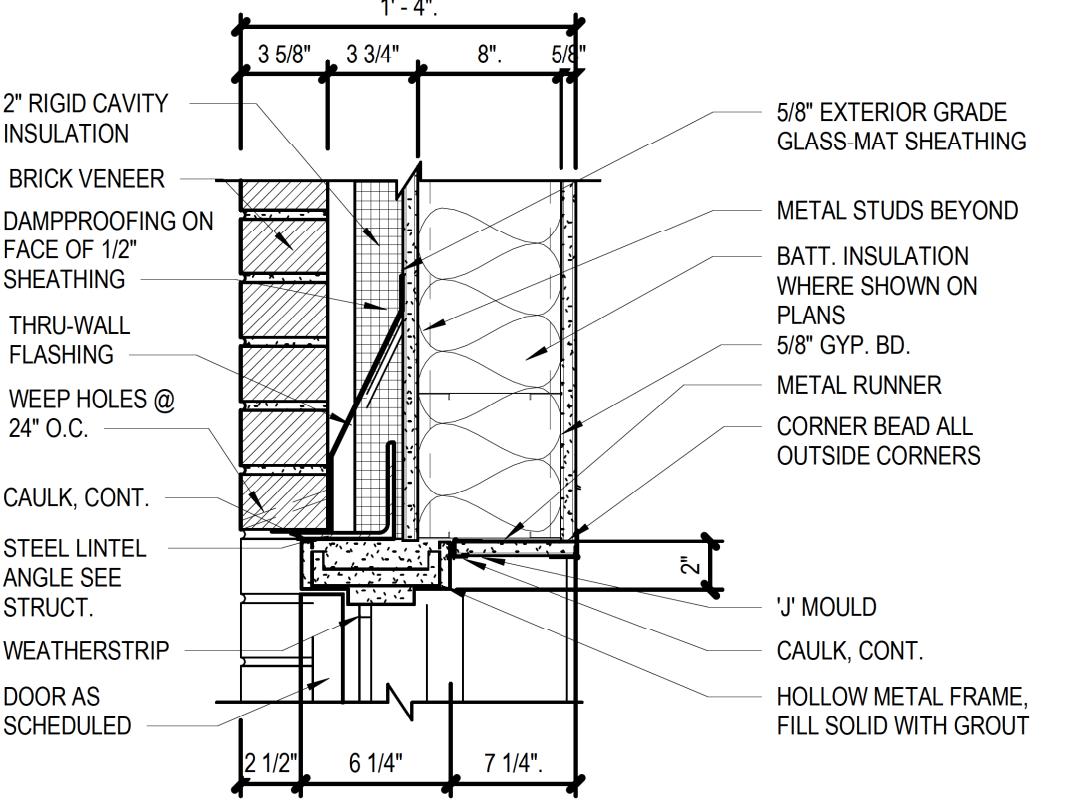
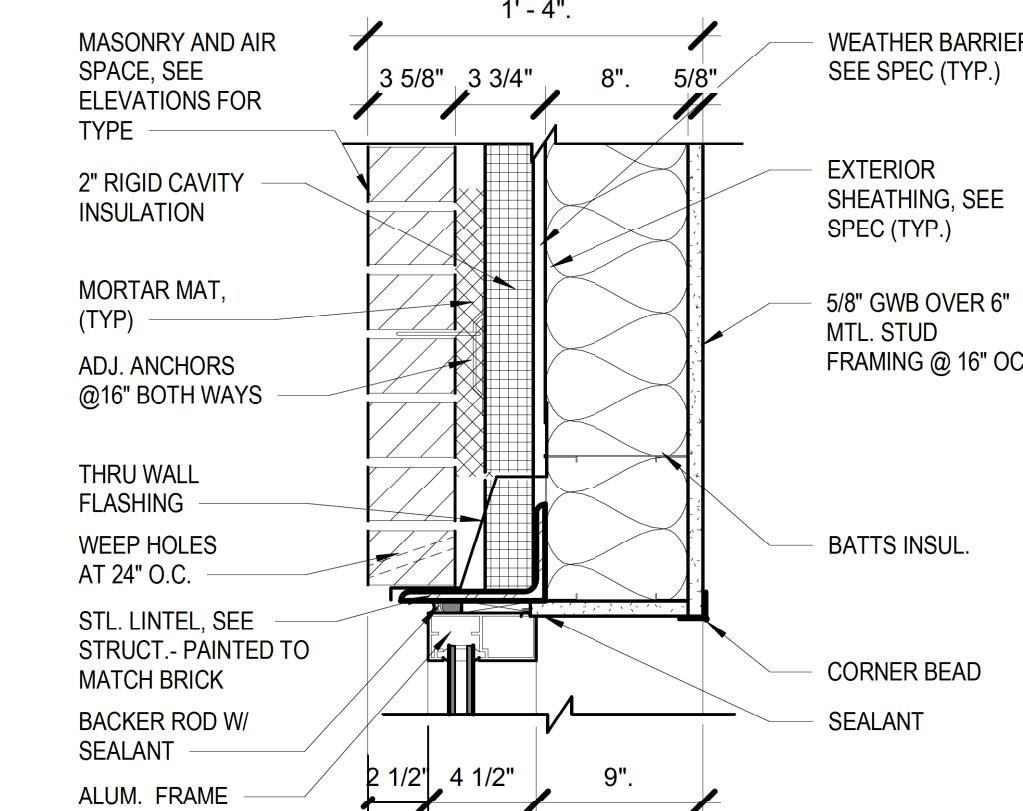
3 A600



DOOR FRAME ELEV

4 A600

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

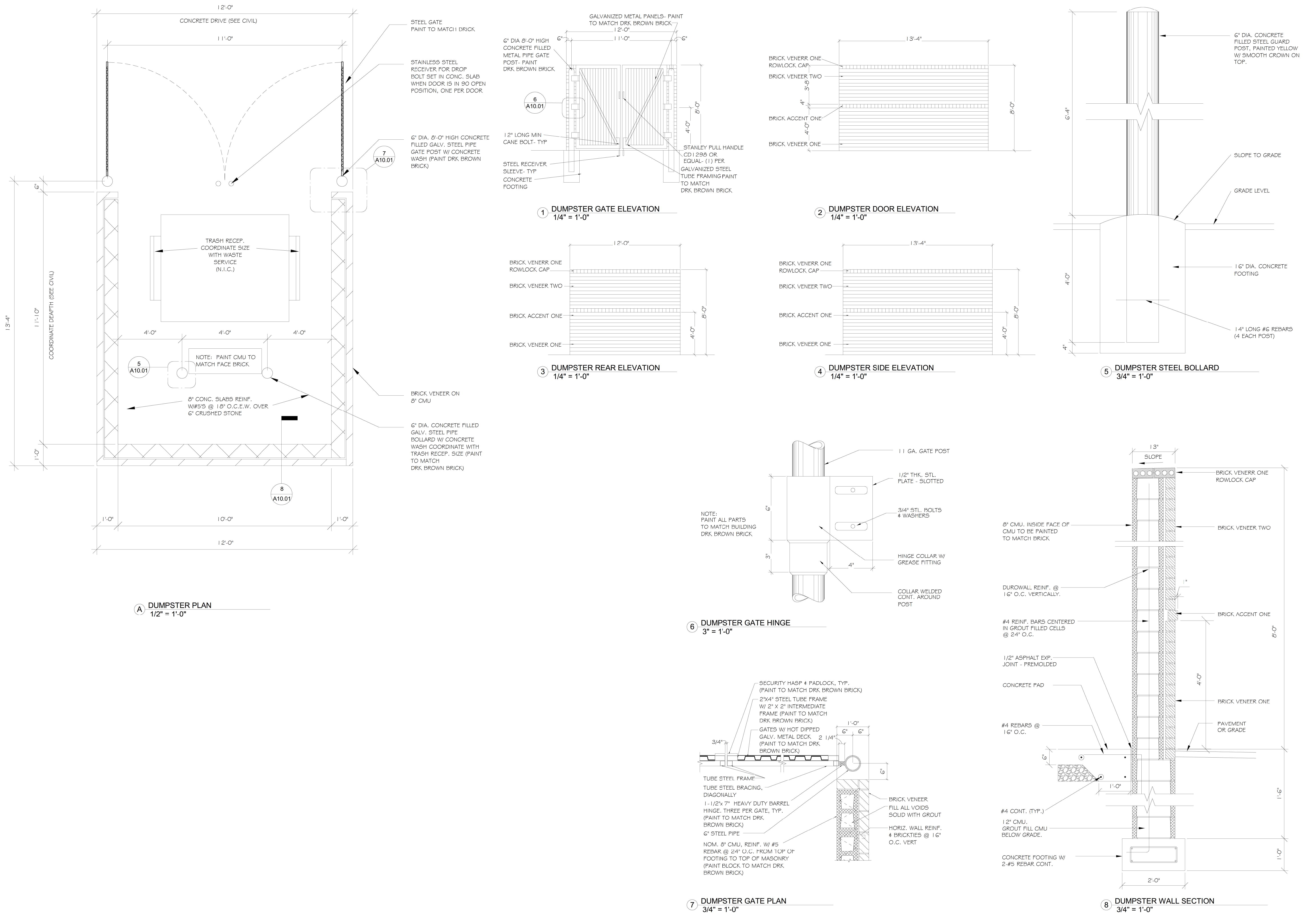


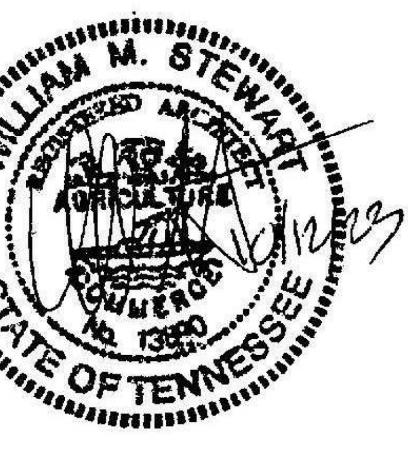
STEWART CREEK STATION

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A7.00





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Architect**

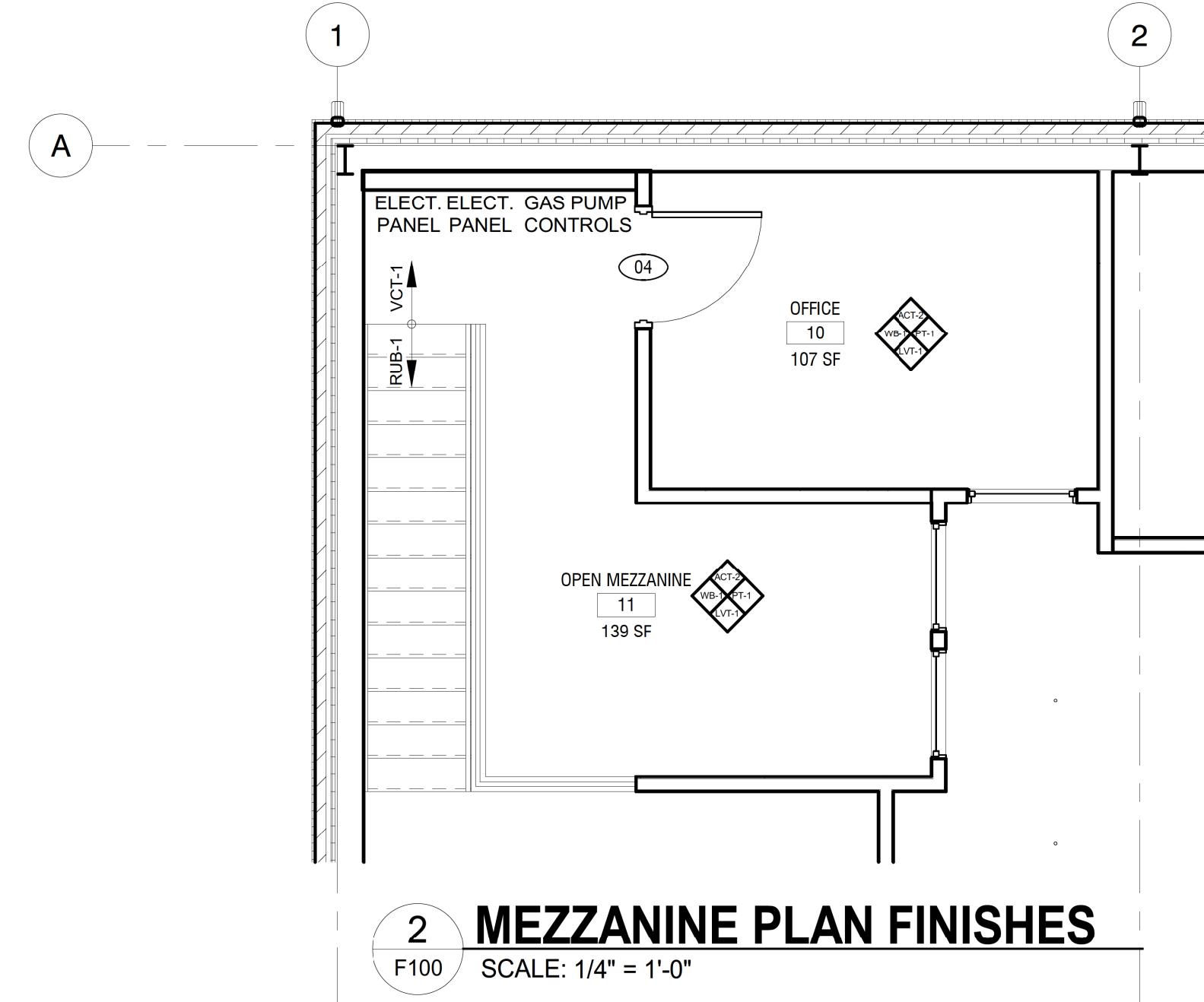
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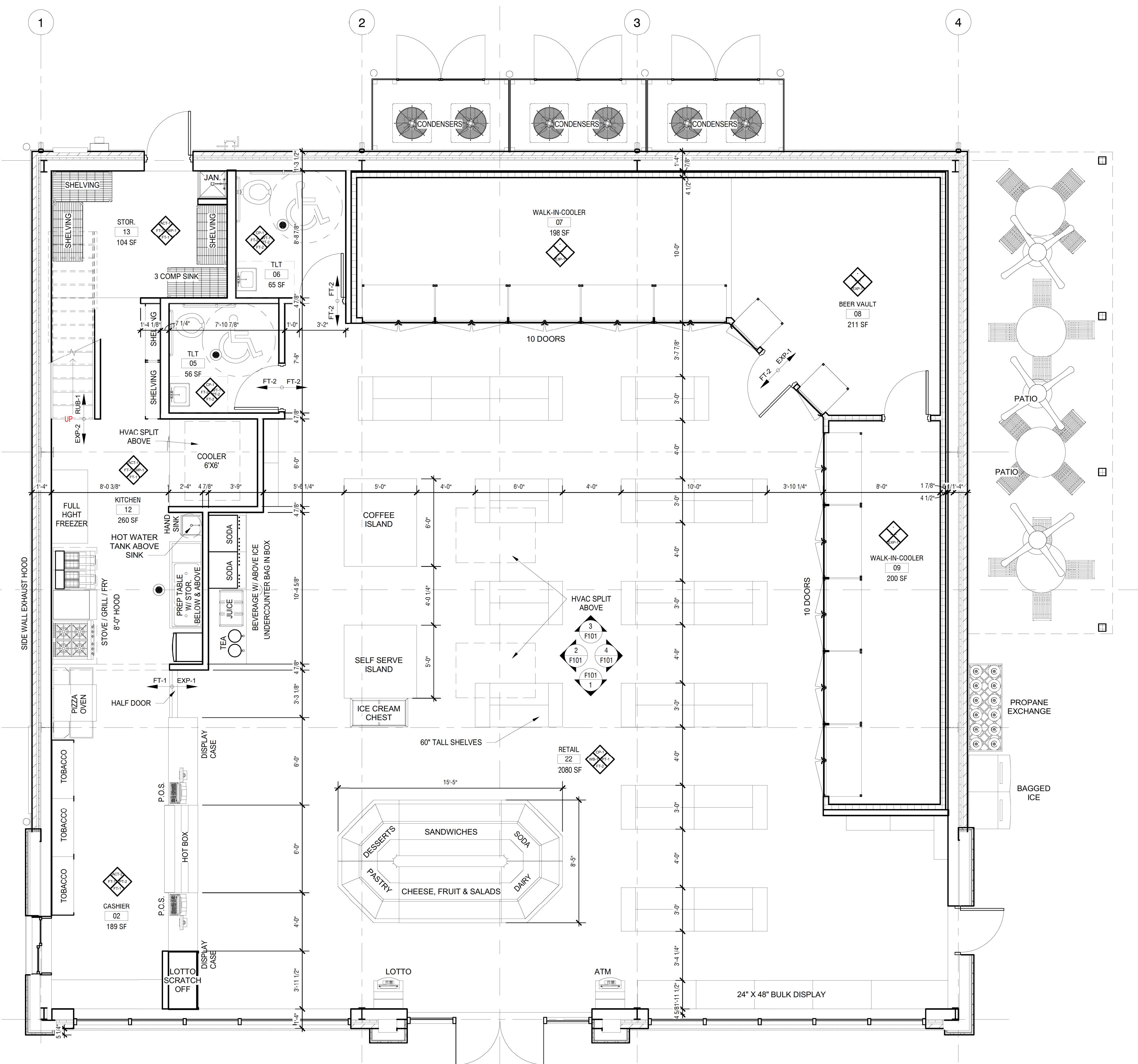
F1.00



FINISH PLAN GENERAL NOTES:

- All interior finishes specified throughout the space shall comply with IBC 2018 for minimum flammability classification. Any finish selections, substitutions, or additions that are deemed non-compliant shall be submitted to the Owner or Architect for re-selection.
- Samples of finish colors and materials specified shall be submitted to Owner or Architect for approval prior to commencement of work.
- Coordinate surface of wall to receive dark paint to be finished to a high standard so as not to reflect imperfections in wall construction or finishing.
- Colored caulk shall be used at all locations to match wall paint or laminate. Color to be approved by Owner or Architect.
- All electrical devices to be white. Unless directed by Owner or Architect.
- Exposed conduit, piping, ductwork, and mechanical systems to be painted to match the adjacent surface unless otherwise noted.
- All gypsum soffits to be painted the same color as ceiling above, unless otherwise noted.
- All millwork open interior to be finished with same melamine finish as exterior unless otherwise noted. All exposed surfaces of millwork to be finished in same manner.
- For information on millwork & hardware, see drawings
- For information on ceiling finishes, refer to ceiling plan sheet

FINISH PLAN SYMBOL LEGEND:



FINISH SCHEDULE

EXP-1 Sealed Concrete	PT-2 Kitchen & Wet Area Wall	ACT-1 Ceiling Tile	SF-1 ALUMINUM STOREFRONT
mfg: TBD	mfg: SHERWIN WILLIAMS	mfg: TBD	mfg: CLEAR ANODIZED ALUMINUM
style: CLEAR	color: AGREEABLE GRAY	style: KITCHEN ZONE	color: WHITE
remark: WITH ANTI SLIP GRIT	finish: SATIN-EGG SHELL	color: MILDEW RESISTANT	finish: 2x2 ANTI-RUST/CORROSION
FT-1 KITCHEN FLOOR TILE	PT-3 Accent Wall Paint	ACT-2 Ceiling Tile	CT-1 Counter Top Quartz
mfg: TBD	mfg: TBD	mfg: TBD	mfg: TBD
style: 8"x8"	color: SATIN-EGG SHELL	style: HIGH NRC RATING	style: OFF WHITE TONE
remark: MEDIUM GRAY TONE GROUT TO MATCH TILE WITH ANTI SLIP GRIT	finish: SATIN-EGG SHELL	color: WHITE	color: OFF WHITE TONE
FT-1 RETAIL FLOOR TILE	PT-4 Accent Wall Paint	PL-1 Plastic Laminate	CP-1 Counter Top Quartz
mfg: TBD	mfg: TBD	mfg: FORMICA	mfg: CLEAR ANODIZED
style: 12" x 12"	color: DRK GRAY CONCRETE	style: MATT OR SATIN FINISH	color: ALKYD, SATIN
remark: GROUT TO MATCH TILE	finish: SATIN-EGG SHELL	color: MEDIUM TONE WOOD	color: MEDIUM TONE WOOD
LVT-1 FLOOR TILE	WT-1 Wall Tile	DF-3 Exterior Door Finish	DOOR FRAMES: CLEAR ANODIZED
mfg: TBD	mfg: SHERWIN WILLIAMS	mfg: TBD	
style: 12"x12"	color: AGREEABLE GRAY	color: MATCH STONE COLOR	
remark: LIGHT GRAY	finish: SATIN	finish: ALKYD, SATIN	
WP-1 Wall Panel FRP	CP-1 CEILING PAINT	DF-2 Exterior Door Frame Paint	WB-1 Vinyl Wall Base Moulding
mfg: MARLITE	mfg: SHERWIN WILLIAMS	mfg: TBD	mfg: FLEXCO
colored: TBD	color: AGREEABLE GRAY	color: MATCH STONE COLOR	model: TP BASE 2000
style: LIGHT GRAY	finish: SATIN-EGG SHELL	finish: ALKYD, SATIN	size: 6"
PT-1 Main GYP. BD. Wall Paint	DF-3 Interior Wood Door Finish	DF-4 Interior Door Frame Paint	color: 071 BLACK BROWN
mfg: SHERWIN WILLIAMS	mfg: TBD	mfg: TBD	
color: AGREEABLE GRAY	color: SATIN-EGG SHELL	color: MATCH VINYL BASE	
finish: LATEX SATIN-EGG SHELL	finish: ACRYLIC, SATIN, EGG SHELL	finish: ALKYD, SATIN	
EX-1 Exposed Structure	EX-2 Exposed Structure	EX-3 Exposed Structure	EX-4 Exposed Structure
mfg: TBD	mfg: TBD	mfg: TBD	mfg: TBD
color: DARK BURGUNDY	color: AGREEABLE GRAY	color: AGREEABLE GRAY	color: AGREEABLE GRAY
finish: ACRYLIC, SATIN, EGG SHELL	finish: LATEX SATIN-EGG SHELL	finish: LATEX SATIN-EGG SHELL	finish: LATEX SATIN-EGG SHELL

NOTE: REFER TO EXTERIOR ELEVATIONS FOR ADDITIONAL EXTERIOR FINISHES



W. Michael Stewart
Architect

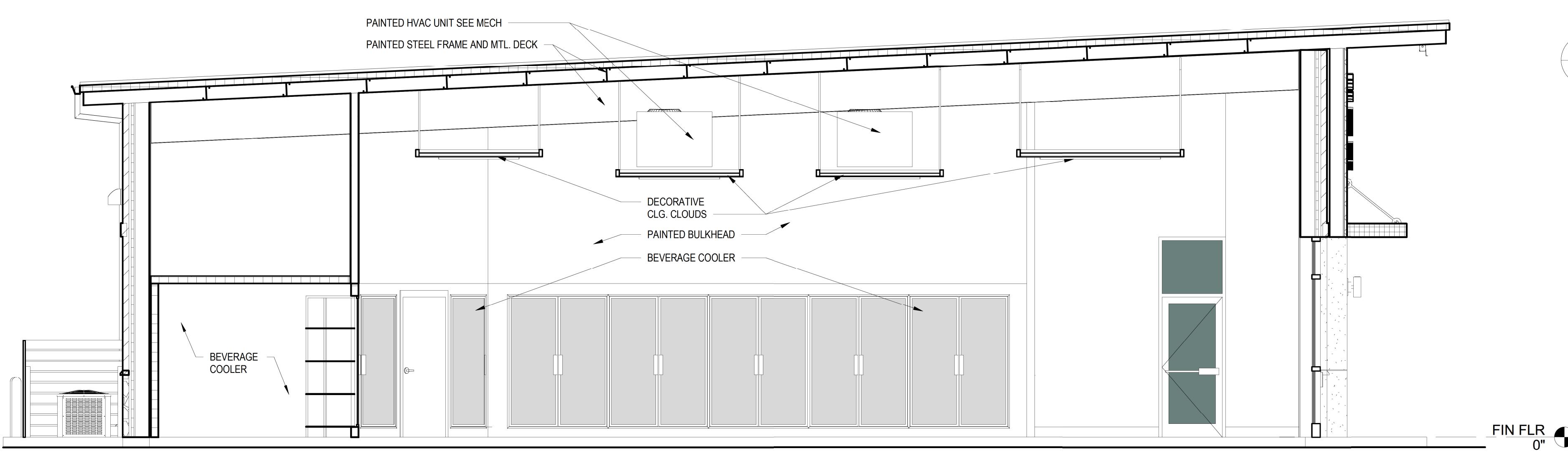
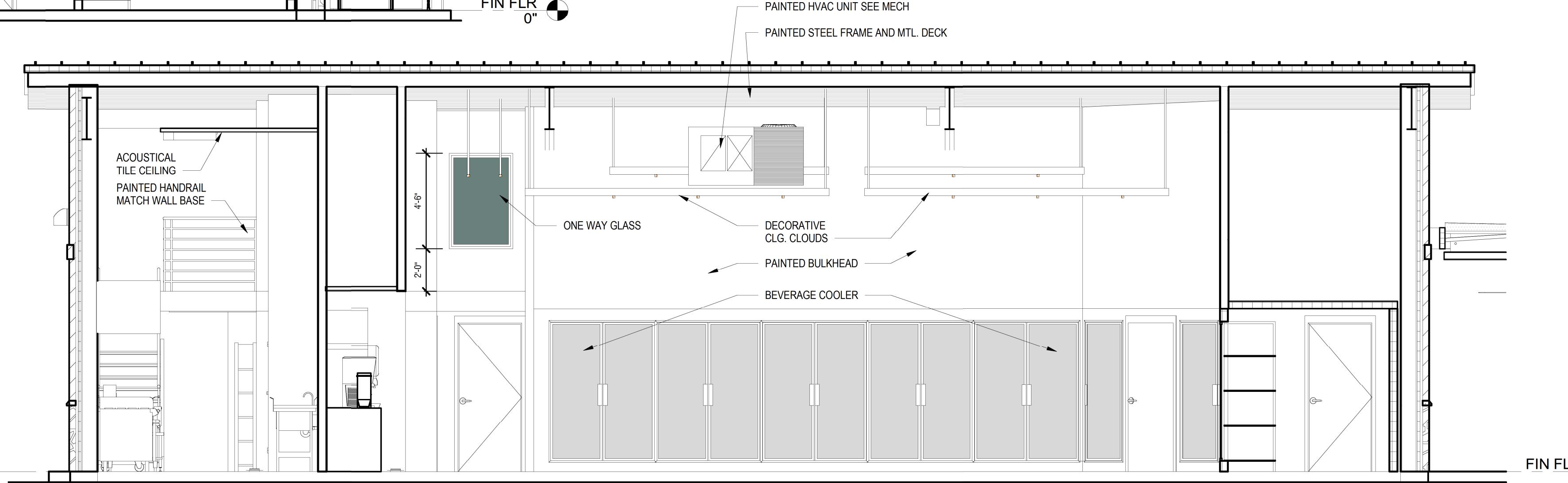
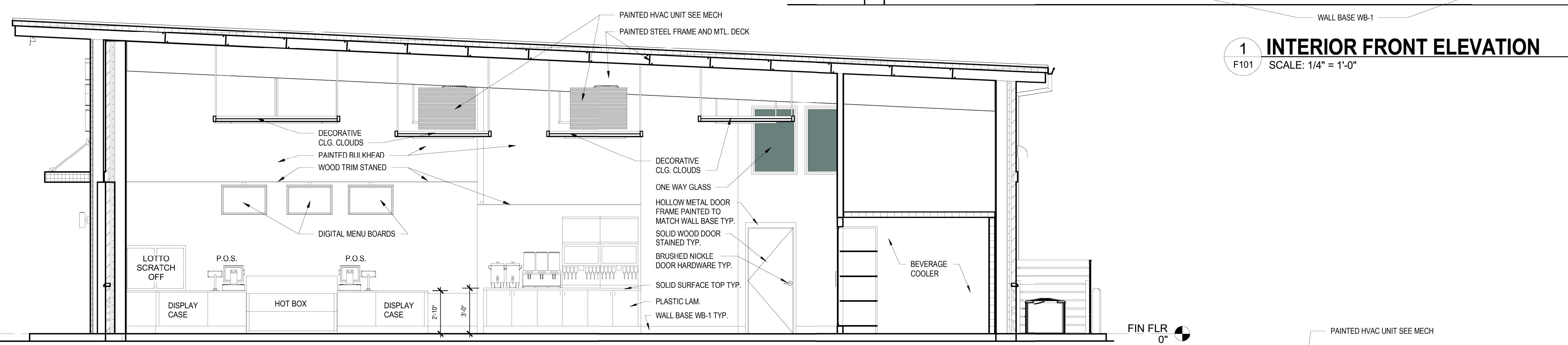
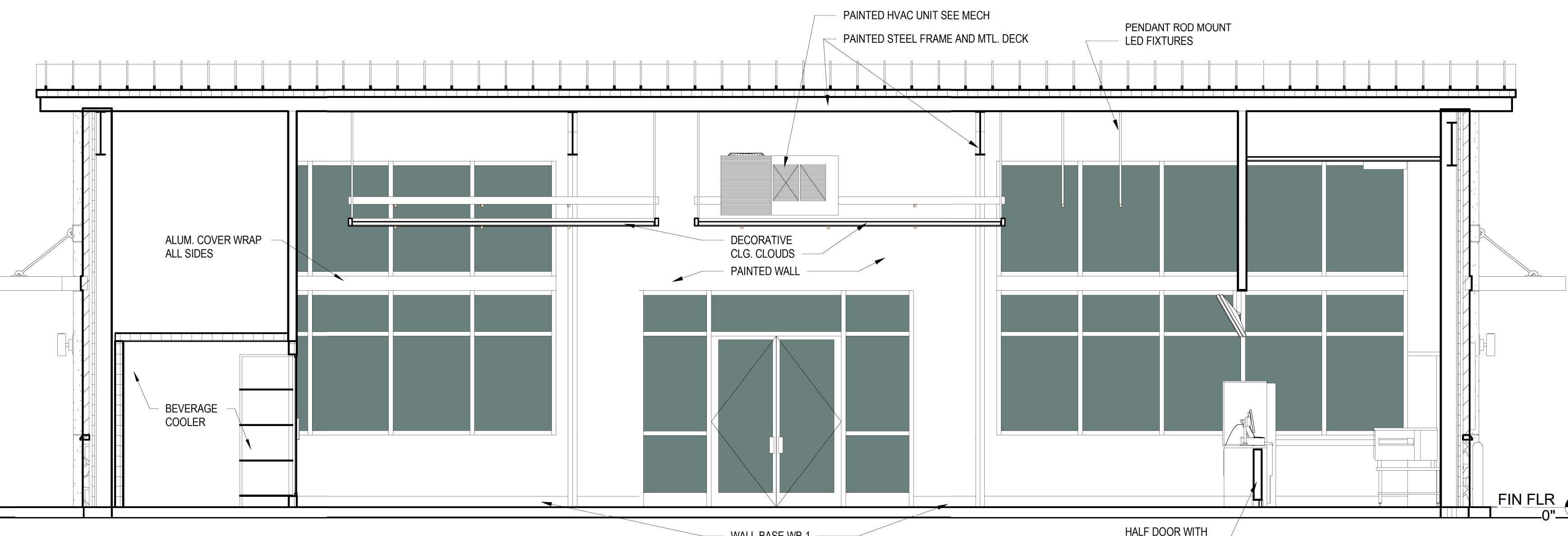
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STEWART CREEK STATION

SMYRNA, TENNESSEE

10/12/2023

F1.01



GENERAL

- No provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the contract documents) shall be effective to change the duties and responsibilities of Owner, Contractor, Engineer, Supplier, or any of their Consultants, Agents, or employees from those set forth in the Contract Documents. Nor shall it be effective to assign to the Structural Engineer of Record or any of the Structural Engineer of Record's Consultants, Agents, or employees any duty or authority to supervise or direct the furnishing or performance of the work or any duty or authority to undertake responsibilities contrary to the provisions of the Contract Documents.
- Contract Documents include, but are not limited to, the Structural Documents (Drawings and Specifications), but do not include shop drawings, vendor drawings, or material prepared and submitted by the Contractor.
- Reference to standard specifications of any technical society, organization, or association or to codes of local or state authorities, shall mean the latest standard, code, specification or tentative specification adopted at the date of taking bids, unless specifically stated otherwise.
- Contract Documents shall govern in the event of a conflict with the Code of Practice or Specifications of ACI, PCI, AISC, SJI or other standards. Where a conflict occurs within the Contract Documents, the strictest requirement shall govern.
- Material, workmanship, and design shall conform to the referenced Building Code.
- Contractor shall coordinate the Structural Documents with the Architectural, Mechanical, Electrical, Plumbing and Civil Documents. Architect/Structural Engineer shall be notified of any discrepancy or omission. For dimensions not shown on the Structural Drawings see the Architectural Drawings.
- Contractor shall verify existing dimensions, elevations, and site conditions before starting work. Architect/Structural Engineer shall be notified of any discrepancy.
- Contractor shall verify the structurally supported mechanical equipment weights, opening sizes and locations identified on the Structural Drawings with Architectural and Mechanical Drawings.
- Contractor shall verify that miscellaneous framing shown on the Structural Drawings for mechanical equipment, owner-furnished items, partitions, etc. is consistent with the requirements of such items.
- Contractor has sole responsibility for means, methods, techniques, sequences, and procedures of construction.
- The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor.
- Contractor has sole responsibility to comply with all OSHA regulations.
- Reproduction of Structural Drawings for shop drawings is not permitted. Electronic drawing files will not be provided to the Contractor.
- Review of submittals or shop drawings by the Architect/Structural Engineer does not relieve the Contractor of the sole responsibility to review and check all submittals and shop drawings before submitting to the Structural Engineer. Contractor remains solely responsible for errors and omissions associated with the preparation of shop drawings as they pertain to member sizes, details, and dimensions specified in the Contract Documents.
- Details labeled "Typical" on the Structural Drawings apply to all situations occurring on the project that are the same or similar to those locations specifically indicated.

CAST-IN-PLACE CONCRETE

- Concrete work shall conform to ACI 318 and CRSI standards.
- Concrete shall have the following minimum specified 28-day compressive strength:
 - Normal Weight Structural Concrete:** Piers, Footings & Slab-on-Grade 3,000 psi
 - Lightweight Structural Concrete:** (110-120pcf fresh unit weight/107-116pcf air-dried unit weight) Slabs on Composite Steel Deck 3,000 psi
- Pipes or ducts shall not exceed one-third the slab or wall thickness unless specifically detailed. See mechanical and electrical drawings for location of sleeves, accessories, etc.
- Refer to Architectural Drawings for molds, grooves, ornaments, clips or grounds required to be encased in concrete and for location of floor finishes and slab depressions.
- Construction joint locations shall be approved by the Structural Engineer. No horizontal construction joints are permitted except those shown on the Structural Drawings.
- Defective areas in concrete including, but not limited to, honey-combing, spalls, and cracks with widths exceeding 0.01 inch shall be repaired. Extent of defective area to be determined by the Structural Engineer.

CODE/DESIGN CRITERIA

- Structure is designed in accordance with the International Building Code, 2018 Edition.
- Gravity Loads**
Uniform Roof Live Loads (reduced as allowed by the Building Code):

Roof	20 psf
Ground Snow Load	10 psf Is: 1.10 Ct: 1.00 Ce: 1.00
Roof Snow Load	7.0psf Minimum Snow Load 10.00 psf
- Importance Factor = II - Normal
- General Areas 100 psf
Office Areas 50 psf
Corridors 100 psf
Mechanical Rooms 150 psf
Stairs & Lobby 100 psf
- 2.1 Concentrated Floor Loads - distributed over an area of 2.5 feet
Office 2000 lb
- 2.2 Dead Loads (in addition to structure self-weight):
Miscellaneous 8 psf
Partitions 20 psf
3. Wind Loads: 115 mph Ultimate Wind Speed
Exposure B Iw: 1.00 KZT: 1.00 GCpi +/- 0.18
Normal Wind Speed 90 mph
Components & Cladding: +22 psf, -29 psf

4. Earthquake Loads (per 1603.1.5):

- Seismic Importance Factor I = 1.00
Occupancy Category = II
- Mapped Spectral Response Accelerations Ss=0.528 S1=0..126
- Site Class = D
- Spectral Response Coefficients Sds=0.3.485 Sd1=0.193
- Seismic Design Category = C
- Basic Seismic-Force-Resisting System Light Framed Walls with Shear Panels
- Design Base Shear (V) = Cs * W
- Analysis Procedure Used Equivalent Lateral Force Procedure

5. Special inspections:

- Special Inspections in accordance with Chapter 17 of the Building Code, and as defined below shall be made by a qualified person approved by the building official. Special inspector shall observe work for conformance with the approved drawings and specifications.
- Inspection reports shall be furnished to the building official, architect, and structural engineer. Discrepancies shall be brought to the attention of the contractor, and, if not corrected, shall be reported to the building official, architect, and structural engineer.
- Special Inspector shall submit a final report stating that the structural work was, to the best of his knowledge, performed in accordance with the approved drawings, specifications, and the Building Code.
- The following types of work require special inspection: (refer to Building Code and specifications for detailed inspection requirements.)
 - Concrete Placement
 - Masonry Construction
 - Steel Construction
- Owner shall hire Inspector to provide Special Inspections and shall be paid for by the project owner.

FOUNDATION

- Foundation design is based on individual spread and continuous footings footings bearing on soil capable of supporting 2500 psf. Structural Engineer is not responsible for subsurface conditions encountered in the field different from those assumed for design.
- Individual spread footings and continuous footings shall bear on soil capable of supporting 2,500 psf.
- Structural Testing/Inspection Agency shall certify the bearing medium.
- Proofroll building areas with two complete coverages of a loaded dump truck or scraper. Replace soft areas with compacted structural fill to 98% density as determined by ASTM D698 (standard proctor).
- Engineered fill should consist of soil with maximum plastic index of 25 or granular fill.
- Engineered fill should be placed in lifts not exceeding 8" thickness. Fill must be stable under influence of compaction equipment.

REQUIRED VERIFICATION & INSPECTION OF EXCAVATIONS, FILL, & FOUNDATION SUPPORT					
ITEM	REFERENCE STANDARD	CODE ENFORCEMENT FREQUENCY	CONTRACTOR QC FREQUENCY	SPECIAL INSPECTION FREQUENCY	REP.
Verify excavations are extended to proper depth and have reached proper material	Per Spec.	Periodic	B.O.	Per Spec.	G.C.
Perform classification and testing of controlled fill materials	Per Spec.	Periodic	B.O.	Per Spec.	G.C.
Verify use of proper materials, densities and thicknesses of fill in accordance with the plans and specifications	Per Spec.	Periodic	B.O.	Continuous	S.I.
Prior to placement of controlled fill, observe and verify that site has been prepared properly	Per Spec.	Periodic	B.O.	Per Spec.	G.C.
					Periodic S.I.

REQUIRED VERIFICATION & INSPECTION OF CONCRETE CONSTRUCTION					
ITEM	REFERENCE STANDARD	CODE ENFORCEMENT FREQUENCY	CONTRACTOR QC FREQUENCY	SPECIAL INSPECTION FREQUENCY	REP.
Inspection of reinforcing steel and placement	AIC 318, 3.5, 7.1-7.7; IBC 1607.1, 1607.2, 1913.4	Periodic	B.O.	Each Pour	G.C.
Inspection of Anchors installed in hardened concrete	AIC 318, 3.6, 8.1-8.3, 21.28 IBC 1912.1	Periodic	B.O.	Per Spec.	G.C.
Inspect holes to be installed in concrete prior to and during placement of concrete where allowable loads have been increased	IBC 1911.5	Periodic	B.O.	Per Spec.	G.C.
Verify use of required design mix	AIC 318 Ch. 4, 5.2-5.4; IBC 1904.2-1905.4, 1913.2, 1913.3	Periodic	B.O.	Mat. Supplier	Periodic S.I.
Sampling from concrete and performing slump, air content, and determining the temperature of fresh concrete at the time of making specimens for strength tests	ASTM C 172; ASTM C 31; AIC 318 Ch. 4, 5.2-5.4; IBC 1906.6, 1913.10	Periodic	B.O.	Each Load	T.L.
Inspection of concrete placement for proper application techniques	AIC 318, 5.9, 5.10; IBC 1905.9, 1905.10, 1913.0, 1913.2	Periodic	B.O.	Per Spec.	G.C.
Inspection for maintenance of specified curing temperature and techniques (Cold Weather or Weather)	AIC 318 Ch. 4, 5.11-5.12; IBC 1905.11, 1913.2	Periodic	B.O.	Each Load	T.L.
					Periodic S.I.

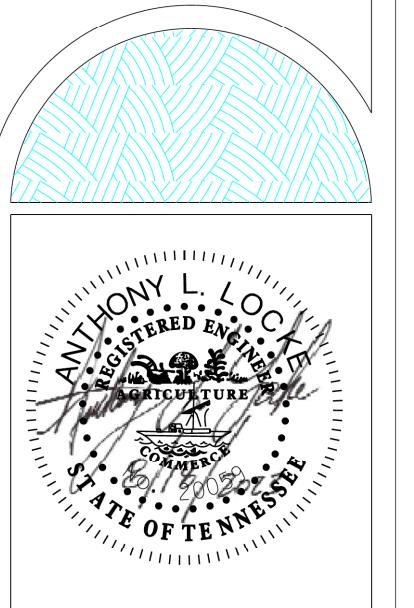
REQUIRED VERIFICATION & INSPECTION OF MASONRY CONSTRUCTION					
ITEM	REFERENCE STANDARD	CODE ENFORCEMENT FREQUENCY	CONTRACTOR QC FREQUENCY	SPECIAL INSPECTION FREQUENCY	REP.
Site-Prepared Mortar, Construction of Mortar Joints, Location of Reinforcement and Connectors, Size & Location of Structural Elements, Type & Location of Anchors, Bolts, Temperature Protection, Grout space performance, Placement of Reinforcement & Connectors, placement of grout, and use of grout specimens, Compliance with Approved Submittals	IBC 1705.4, TMS 402/602	Periodic	B.O.	Continuous G.C. / T.L.	Periodic S.I.

REQUIRED VERIFICATION & INSPECTION OF STEEL CONSTRUCTION					
ITEM	REFERENCE STANDARD	CODE ENFORCEMENT FREQUENCY	CONTRACTOR QC FREQUENCY	SPECIAL INSPECTION FREQUENCY	REP.
Fabrication (Not Required if Fabricator AISC Certified)	IBC 1705.2.1/AISC 360, CH. N	Periodic	B.O.	Continuous	G.C. Periodic S.I.
Bolting	IBC 1705.2.2	Periodic	B.O.	Continuous	G.C. Periodic S.I.
Welding	IBC 1705.2.1	Periodic	B.O.	Continuous	G.C. Periodic S.I.
Cold-Formed Steel Deck	IBC 1705.2.2	Periodic	B.O.	Continuous	G.C. Periodic S.I.
Open-Web Steel Deck (Welded or Bolted)	IBC 1705.2.3	Periodic	B.O.	Continuous	G.C. Periodic S.I.
End Connections & Horizontal or Diagonal Bridging Erection	IBC 1705.2.1/AISC 360, CH. N•8	Periodic	B.O.	Continuous	G.C. / T.L. Periodic S.I.

REQUIRED VERIFICATION & INSPECTION OF MISCELLANEOUS ITEMS					
ITEM	REFERENCE STANDARD	CODE ENFORCEMENT FREQUENCY	CONTRACTOR QC FREQUENCY	SPECIAL INSPECTION FREQUENCY	REP.
Fabricators Approved Not Approved	IBC 1704.2.2	N/A	N/A	Periodic Mat. Supplier	Not Required Not Required A.I.
B.O. - Building Official					
G.C. - General Contractor's personnel shall provide the Special Inspector with written documentation that placement/installation meets the required and specified					
T.L. - Test Lab Inspector appointed by the general contractor shall provide material inspection and testing then report the results in writing.					
S.I. - Special Inspector - The owner shall hire an independent inspection firm to inspect/test critical portions of the structure. The Special Inspector shall give the Engineer of Record all inspection/testing reports for approval.					
G.I. - As required by the owner					
A.I. - As indicated in the charts for verification and inspection of specific materials.					
Special Inspection Additional Requirements					
- Special inspection reports are a final report in accordance with the 2012 International Building Codes shall be available at the time the building is occupied and no later than 6 months after completion.					
- Items not listed here, but in the opinion of the building official, need special inspection shall be inspected.					
- The coordination of the Special Inspection with the construction of the inspected items will be the responsibility of the contractor.					
- If Special Inspection is waived by the governing authorities, the general contractor shall provide to the designer of record a copy of the building official's written exemption for Special Inspection.					

CONCRETE MASONRY					
1. Minimum compressive strength of concrete masonry shall be f'm = 1,500 psi.	2. Mortar shall comply with the Building Code requirements for concrete masonry and shall be of the following type:	Walls below grade	Type M	Bearing walls	Type M or S
3. Concrete masonry units shall be grouted with 2,500 psi coarse grout as shown in the Structural Documents. Grout shall conform to ASTM C476.					
4. Provide horizontal joint reinforcement with No. 9 gage longitudinal wires at 16" vertically, unless noted otherwise. Provide special accessories for corners, intersections, etc.					
5. Provide open bottom beam block units with 3" deep minimum web openings at horizontal reinforcement locations. A minimum clear space of one bar diameter shall be provided between the reinforcing bars and the face of masonry units.					
6. Provide contraction joints in all concrete masonry walls at locations approved by the Architect at a maximum spacing of 3 times the wall height or 30'-0", whichever is less.					
7. Provide dovetail anchors at 16" c/c, unless noted otherwise, where masonry walls abut concrete surfaces.					

Cold-Formed Steel					
1. Cold-formed steel design, fabrication and erection shall be in accordance with AISI "specification for design of cold-formed steel structural members" or "load and resistance factor design specification for cold-formed steel structural members".	2. Design of cold-formed steel structural members and their connections shall be the sole responsibility of the contractor. Submit shop drawings sealed by an engineer licensed in the project state. Review of shop drawings shall be for conformance with the contract documents regarding arrangement and sizes of members and the contractor's interpretation of the design loads and contract document details. Such review shall not relieve the contractor of full responsibility for the design of the cold-formed steel structural members and their connections.	3. Cold-formed steel studs, joists and accessories shall be as shown in the structural documents.	4. Cold-formed steel trusses shall be designed for the design loads shown in the contract documents. Refer to the specifications.	5. Cold-formed steel structural members may be attached by either welds or screws sized by the manufacturer for the specified design loads. See the specifications.	6. Contractor shall furnish complete fabrication and erection drawings for approval by the structural engineer prior to the commencement of fabrication. Include placing drawings for framing members showing size and



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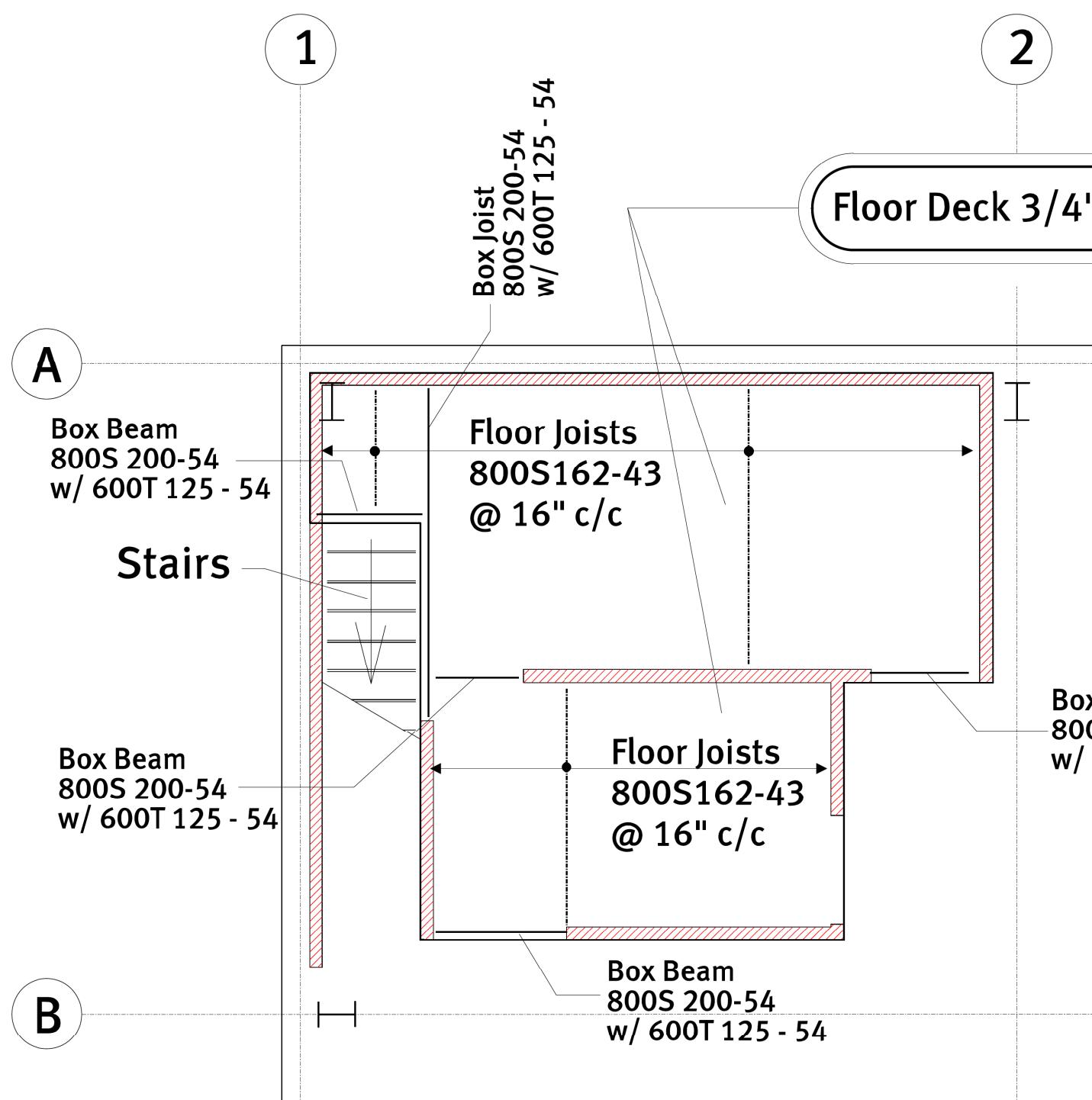
STEWART CREEK STATION

Smyrna, Tennessee

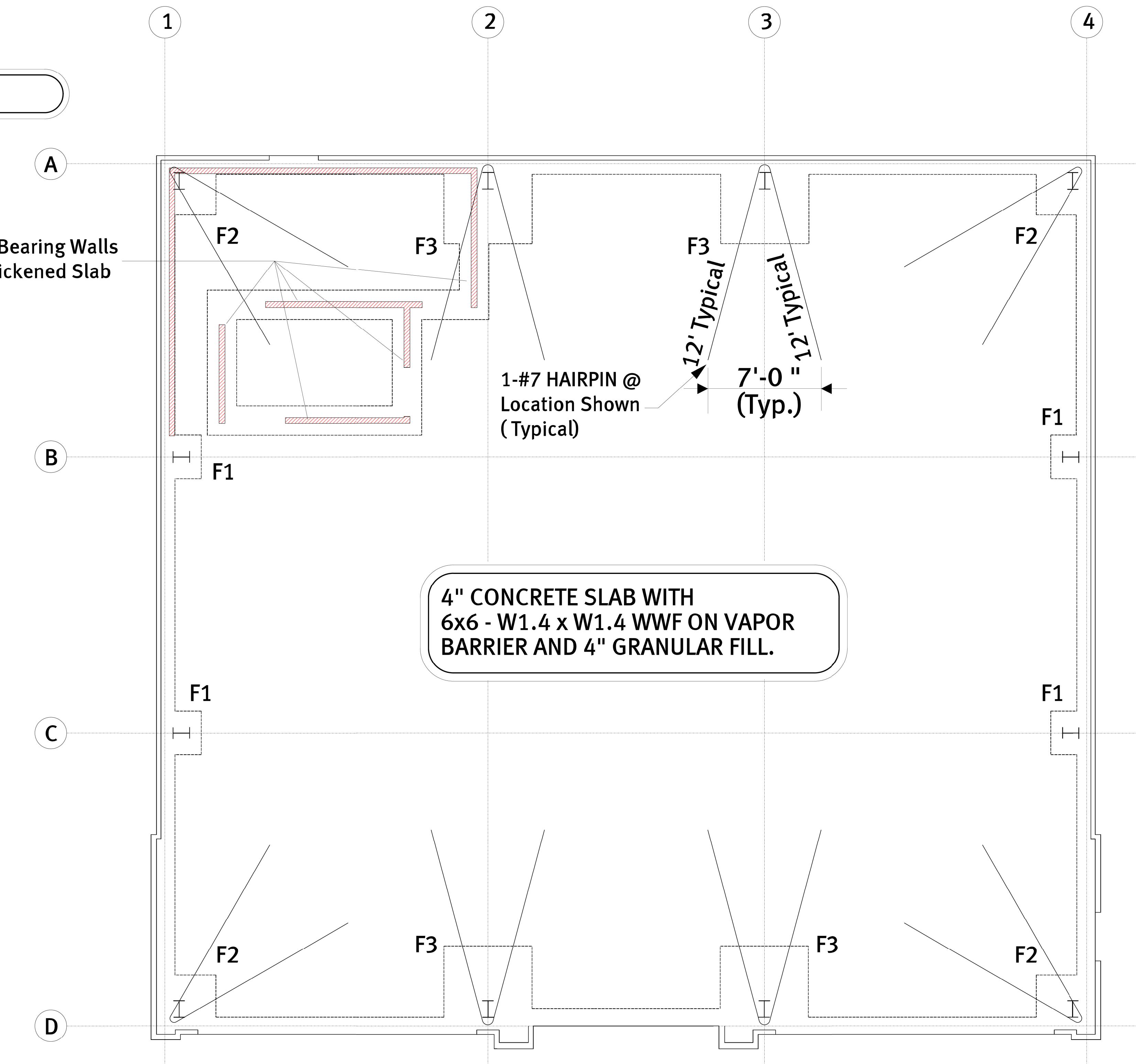
DATE
9/1/2023

SHEET TITLE
FOUNDATION PLAN

SHEET #
S2.0



Mezz Framing Plan



Foundation Plan

FOUNDATION PLAN NOTES:
Slab-on-Grade must be poured prior to erecting the Metal Building to engage hair-pins.
Columns are to bear @ finish floor elevations.
Coordinate Dimensions with Architectural & Metal Building Anchor Bolt Drawings.

FOOTING SCHEDULE		
MARK	SIZE	REINF.
F1	3'-0"x 3'-0"x 1'-6"	4~#5 E.W.
F2	4'-0"x 4'-0"x 1'-6"	5~#6 E.W.
F3	6'-0"x 6'-0"x 1'-6"	6~#6 E.W.



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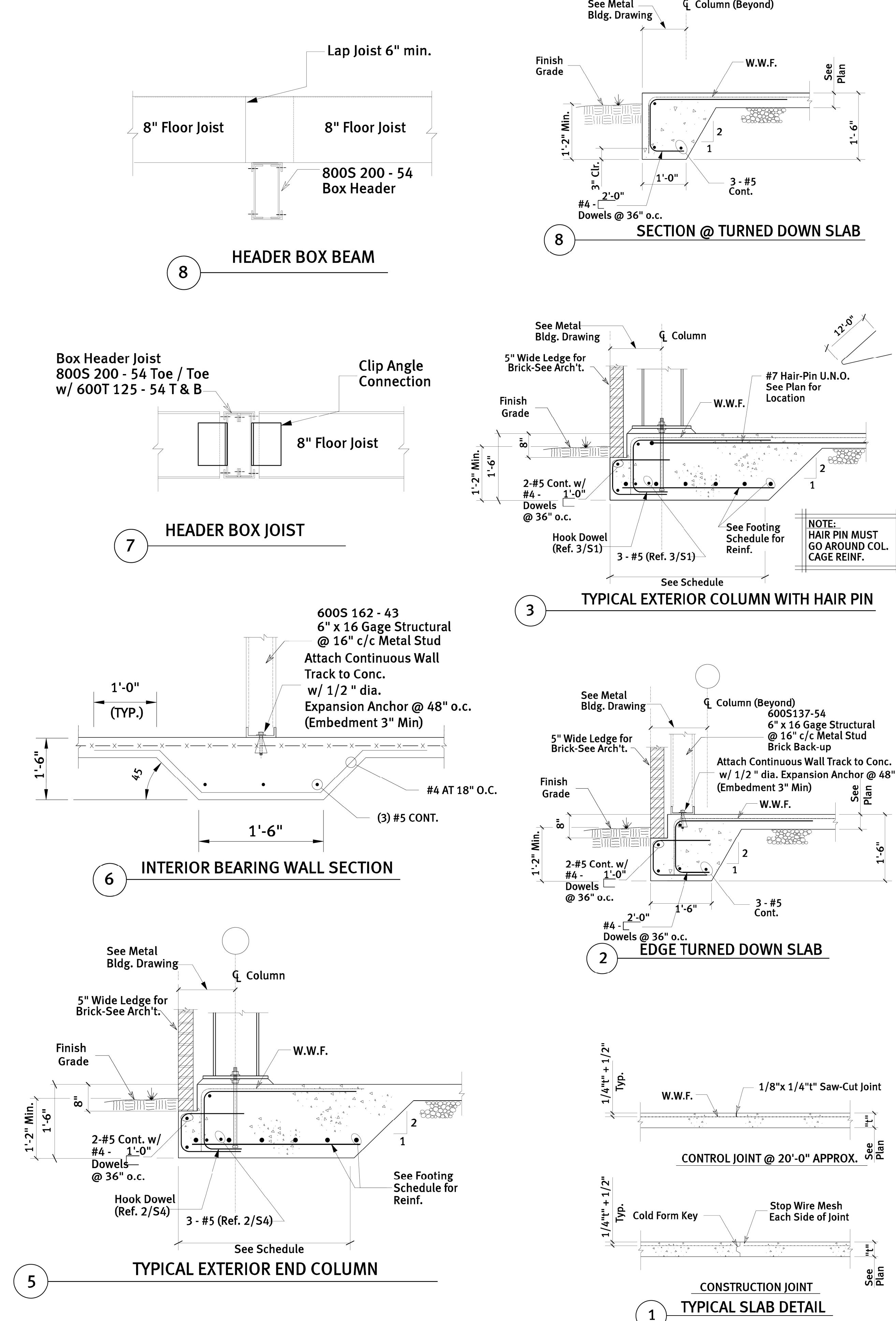
Smyrna, Tennessee

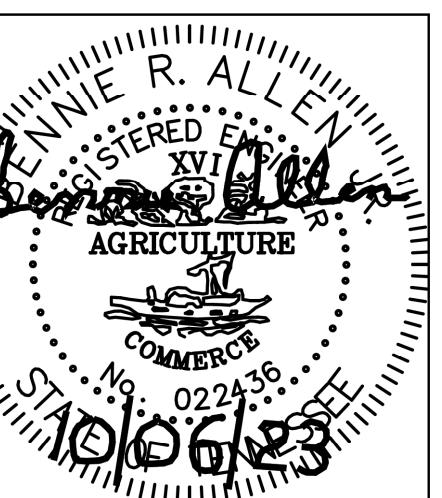
DATE
9/1/2023

SHEET TITLE

SECTIONS & DETAILS

SHEET #
S3.0





Ben Allen P.E.
Mechanical Engineer

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STEWART CREEK
STATION

SMYRNA, TENNESSEE

10/06/2023

M-1.00

SECTION 15100-MECHANICAL SPECIFICATIONS

1.1 SUMMARY:

A. Mechanical Specifications provided in this section and on construction documents are in conjunction to other specifications; when conflict occurs between those noted or specified the most restrictive compliance is required.

1.2 QUALITY ASSURANCE:

A. The Contractor shall not fabricate or order any equipment, air distribution, piping or materials until he/she has verified that sufficient clearances are available for the installation of HVAC systems or plumbing materials considering requirements for piping, light fixtures, ceiling systems, floor systems, foundations, and/or structures.

B. Drawings are diagrammatic and indicative of work to be furnished and installed under this contract; refer to architectural, structural, civil and foundations documents for all dimensions.

C. The terms "provide" and "install" shall be considered synonymous with "furnish" and "install".

D. All work shall be installed in a workmanlike manner by experienced tradesmen.

E. N/A

F. Equipment, fixtures, ductwork, dampers, louvers, grilles, registers, diffusers, piping and/or other items noted shall conform to the latest editions of the following:

1. ASHRAE
2. SBCCI
3. SMACNA
4. NFPA
5. AMCA Standard Handbook
6. Air Diffusion Council Test Code 1062R3
7. ANSI
8. ASME
9. AGA
10. UL Fire Resistance Directory
11. State Plumbing Code
12. Governing Health Regulations
13. Environmental Regulations
14. BOCA Codes
15. Any Local Governing Regulations

G. Deviation from materials, methods and procedures set forth herein must be approved in writing by the Engineer. Approval will not be given unless the Engineer is satisfied that the proposed systems is superior in performance, durability, longevity, and reliability to that specified.

H. N/A

I. Systems on schedules, specifications and construction documents are basis for design only; other systems and manufacturers may be approved at review by Engineer.

J. N/A

K. Contractor or Owner shall not operate HVAC systems, equipment or fans during construction. Failure to comply with this specification item will result in complete cleaning of all fans, blowers, filters, ducts and air distribution systems with approval by Certified Indoor Air Quality Professional.

L. In order to comply with Indoor Air Quality standards building mechanical systems may be operated for facility "off-gassing" procedures once Owners have obtained professional services of Certified Indoor Air Quality Professional. If professional is not obtained systems shall not be operated as so noted above.

M. Contractor shall maintain a clean and healthy work premise at all times and shall clean construction site of all his/her debris at the completion of the job or as requested by Owner's representative; this is required prior to release of final project payment to contractor.

1.3 GUARANTEE/WARRANTY:

A. All work and materials shall be guaranteed/warranted (parts and labor) for a period of one year from date of FINAL acceptance by Owner. An additional warranty (parts only) shall be included for a period of four (5) years on all compressors and nine (10) years on all heat exchangers.

1.4 SUBMITTALS/PROJECT MANUALS:

A. Contractor shall supply, to the Engineer, five (5) sets of submittals for approval on the following:

1. Air Distribution Materials (turning vanes, extractors, spin-in, diffusers, grilles, registers, louvers, etc.)
2. Heating, Ventilation and Air Conditioning equipment
3. Dampers
4. Insulation Materials
5. Controls
6. Hangers

B. N/A

C. N/A

D. Operation Instructions/Manuals:

- a) Upon completion of work contractor shall supply to the Owner a minimum of four bound sets of all work, tests and necessary instructions for the complete operation and maintenance of all equipment and products installed.
- b) Contractor must provide at least a forty-eight (48) hours notice to Owner of training task for Owner personnel on operation and basic maintenance all systems installed; training period shall not be less than one (1) eight work day.
- c) Manufacturer's advertising information or catalogs will not be accepted for operating and maintenance manuals.
- d) Operation and Maintenance Manuals shall include:
 1. maintenance and operating instructions for all equipment and products installed at this job
 2. characteristics and curves of all equipment
 3. date on all the equipment and products installed to include item, make, model, capacity, electrical characteristics, etc.
 4. name, address and telephone number of service agent

1.5 TEST AND BALANCE:

A. A complete certified test and balance report shall supplied by an independent certified test and balance agency per AABC Test and Balance Report Manual (latest edition); this action must take effect prior to Owners final acceptance of the facility.

B. Once Owners have occupied facility agency shall again re-visit site and re-adjust systems based on actual space usage. If this event occurs during one season (cooling or heating) agency shall make an additional adjustment during other remaining season (heating or cooling), as required.

C. Testing shall be for all air distribution, hydronic systems, equipment, fans, controls, dampers, etc.

D. Air distribution devices shall be in compliance with construction documents. Test and Balance agency shall provide all sizes, quantities, and "velocities" noted in documents. Each air device indicated in documents will include the following typical information:

*Product Face Size Type & Air Pattern
15"x 15" - CD-4
Quantity (CFM's) Velocity (FPM's)
300 - 550
Branch duct size serving air device
w/10"

*does not include T-bar panel or framing

E. Certified Test and Balance agency shall be approved by the Engineer, prior to bidding project.

1.6 EQUIPMENT/SCHEDULES/FIXTURES:

A. All equipment schedules, fixtures and construction document information notes are hereby noted in specifications and construction documents.

B. N/A

C. Materials and products specified shall be listed by the Underwriters Laboratories (UL) or National Electrical Manufacturer's Association (NEMA).

D. N/A

E. Locate all equipment which must be serviced, operated and/or maintained in fully accessible positions. Doors for access to electric heating coils shall have disconnect switch to break circuits as door is opened. Furnish all doors/panels in accordance with local codes and manufacturer's recommendations for each control valve, control, damper, or other device requiring service.

1.7 AIR DISTRIBUTION:

A. All air distribution shall be air tight and free of leaks, and must be inspected for leaks prior to installation of fan units or finished ceiling/floor systems; ductwork shall be sealed with air duct sealer per SMACNA Standards and UL ratings.

B. All supply, return, exhaust and outside air ducts shall be galvanized metal with 2" external insulation having vapor, retarding jacket (FSK type) with R-6 value. Insulation shall comply with UL 181 and must have flame spread rating of 25 and a smoke developed rating no higher than 50. Apply white mastic fire rated duct insulation sealer to all joints and seams per SMACNA Standards.

C. No ducts shall be internally insulated, unless otherwise noted.

D. Fibrous Ductboard systems are not approved.

E. Install flexible duct connectors at all fans, air handling units, roof-top-units, package units and other air moving equipment.

F. All ducts are to have air extractors (adjustable type) on square or rectangular take-offs with spin-in volume dampers (no scoops) on round or oval take-offs.

G. Square or rectangular 90 and 45 elbows shall have "air-foil" type turning vanes, installed per SMACNA Standards.

H. Flexible ducts must comply with UL 181 and shall not exceed six feet in length; remaining branch line shall be galvanized metal with R-6 external insulation and white fire mastic sealant; flexible ducts are to have foil backing (FSK type).

I. The interior face of all ductwork housing supply, return and exhaust air diffusers, registers or grilles shall be painted "flat-black" so when viewed from below and above nothing beyond surface of air device is visible.

J. Wherever the depth of a trunk duct is less the round runout duct diameter noted contractor shall provide transition fittings (manufactured) of equivalent area to the round duct.

K. All exhaust (including plumbing vents) shall be separated at least ten (10) feet from air intakes.

L. N/A

M. Install backdraft dampers, volume dampers, insect screens and approved weather proof wall louvers or door grilles on all outside air intakes.

N. All duct sizes shown are clear net inside dimensions.

O. Ducts shall be properly supported from structure per SMACNA Standards.

P. Ceiling supply air diffusers (S) shall be equal to Titus
All diffusers shall have opposed blade dampers. Coordinate the finish with the Architect/Owner.

Q. Ceiling returns (R) grilles and exhaust air registers (E) shall be equal to Titus

1.8 ELECTRICAL/CONTROLS:

A. N/A

B. All controls, wiring, relays, transformers, starters, disconnects and accessories for HVAC systems and equipment shall under this contractor for a complete heating, ventilation and air conditioning system.

C. Room thermostats shall be mounted at 54 inches above finished floor; thermostats to be programmable type with night set-up/set-back and 7-day clock functions with battery back-up; thermostat controls shall be with bi-metallic actuated adjustment sensing elements and have internal mounting plate and tamper proof blank cover plate in lieu of locking cover device; all indoor fans shall be cycled "on" during normal occupancy for facility air balance with system operating at "auto" fan position during unoccupied periods; heating and cooling cycles must be manual switched type; control contractor shall guarantee the control system installed to be free from defects and must provide service for one full year after date of final acceptance by Owner.

D. All control wiring shall be in rigid metal conduit per latest edition of the National Electrical Code, with correct turns and pull-boxes.

E. Motor starters shall be supplied by HVAC Contractor and installed by Electrical Contractor; motor starters must be approved with automatic controls capable of making frequent starts as device demands; horsepower rating each starter shall not be less than the motor it controls; each starter shall be equipped with a TwinBreak type contact for each ungrounded line to motor.

MECHANICAL SPECIFICATIONS

PROVIDE THE HVAC SYSTEM WITHOUT ECONOMIZER CONTROL.
THE STORE HAS HUMIDITY REQUIREMENTS THAT PROHIBITS
ECONOMIZER OPERATION.

PROVIDE THE DUCT SMOKE DETECTORS WITH AUDIBLE HORNS
AND VISUAL STROBE LIGHTS TO BE INSTALLED IN PLAIN SITE.
REFER TO ELECTRICAL.

LICENSED CONTRACTORS SHALL OBTAIN A PERMIT BEFORE STARTING ANY WORK.

PROVIDE A FACTORY INSTALLED DISCONNECT FOR EACH PIECE OF EQUIPMENT.

PROVIDE MANUFACTURERS INSTALLATION INSTRUCTION FOR ALL APPLIANCES INSTALLED,

CONTRACTOR MAY USE RECTANGLE DUCT OR FLEX DUCT

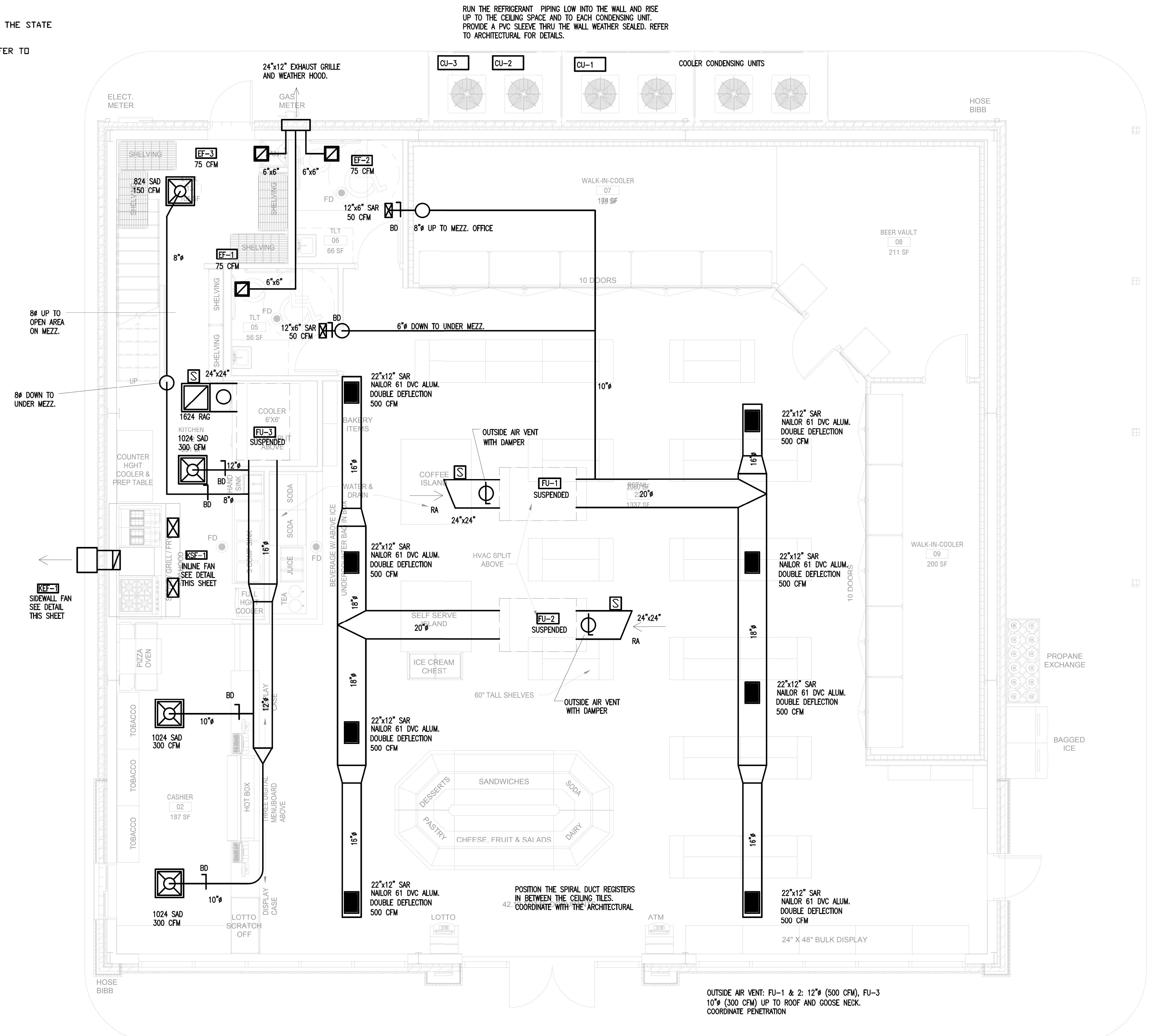
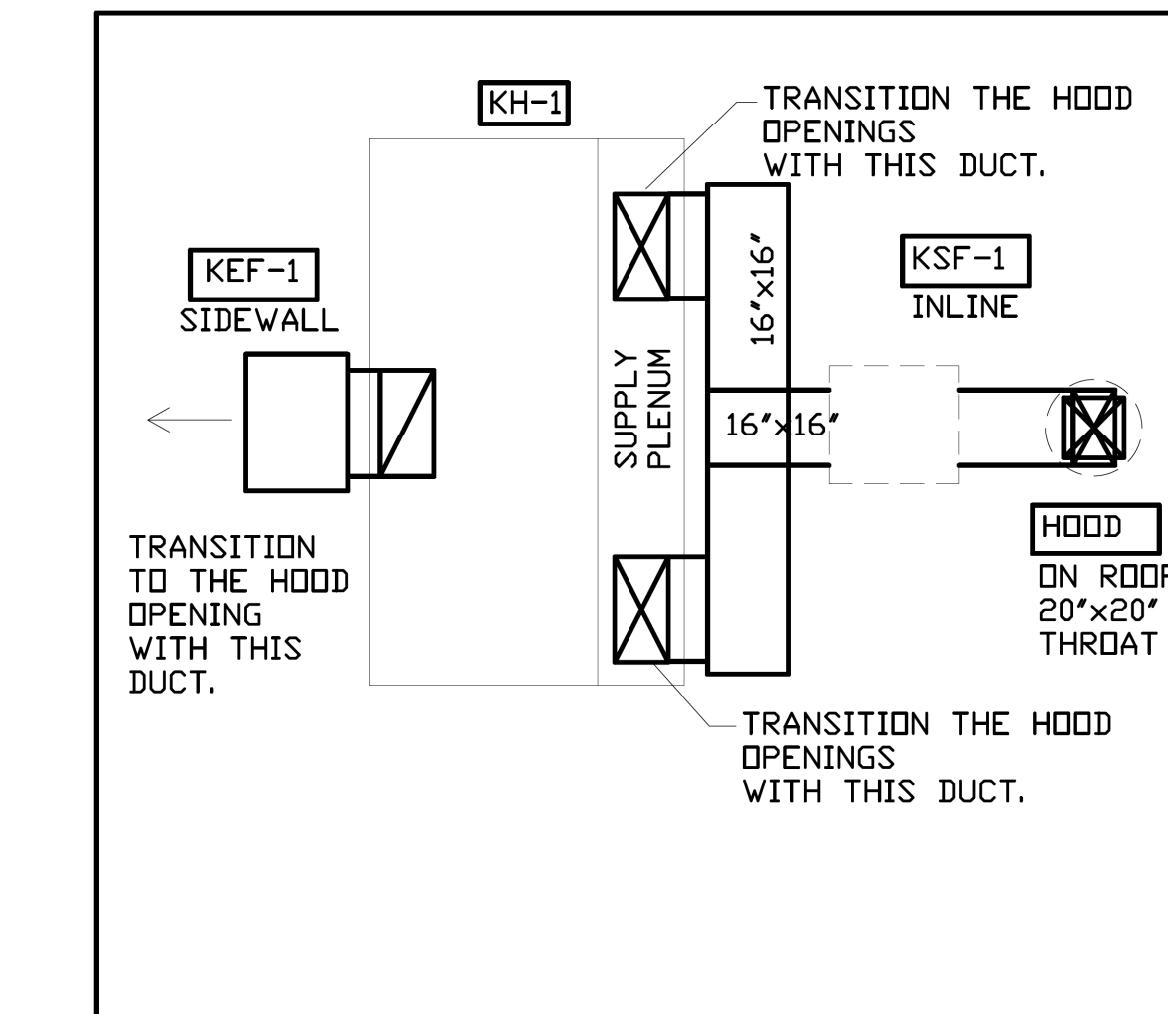
WORK MUST BE PERFORMED BY A HVAC AND GAS CONTRACTOR LICENSED IN THE STATE
OF TENNESSEE.

ALLOW CLEARANCE AROUND ALL GAS APPLIANCES FOR SERVICE WORK. REFER TO
MANUFACTURERS REQUIREMENTS FOR INSTALLATION.

ALL RETURNS ARE 16"Ø UNLESS OTHERWISE SHOWN.

ALL BRANCH DUCT ARE SIZE OF DIFFUSER NECK.

PROVIDE A PERMANENT ACCESS TO THE ROOF.



FIRST FOOR HVAC PLAN

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

M-1.01

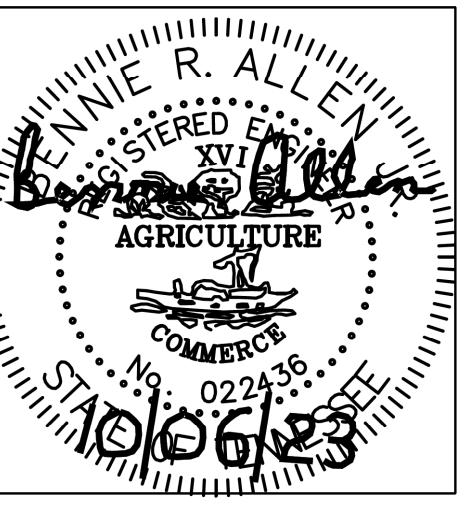
Ben Allen P.E.
Mechanical Engineer

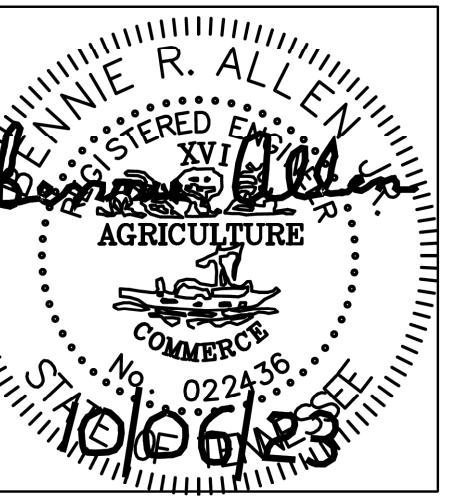
63 Moseley Lane
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STEWART CREEK
STATION

SMYRNA, TENNESSEE

10/06/2023



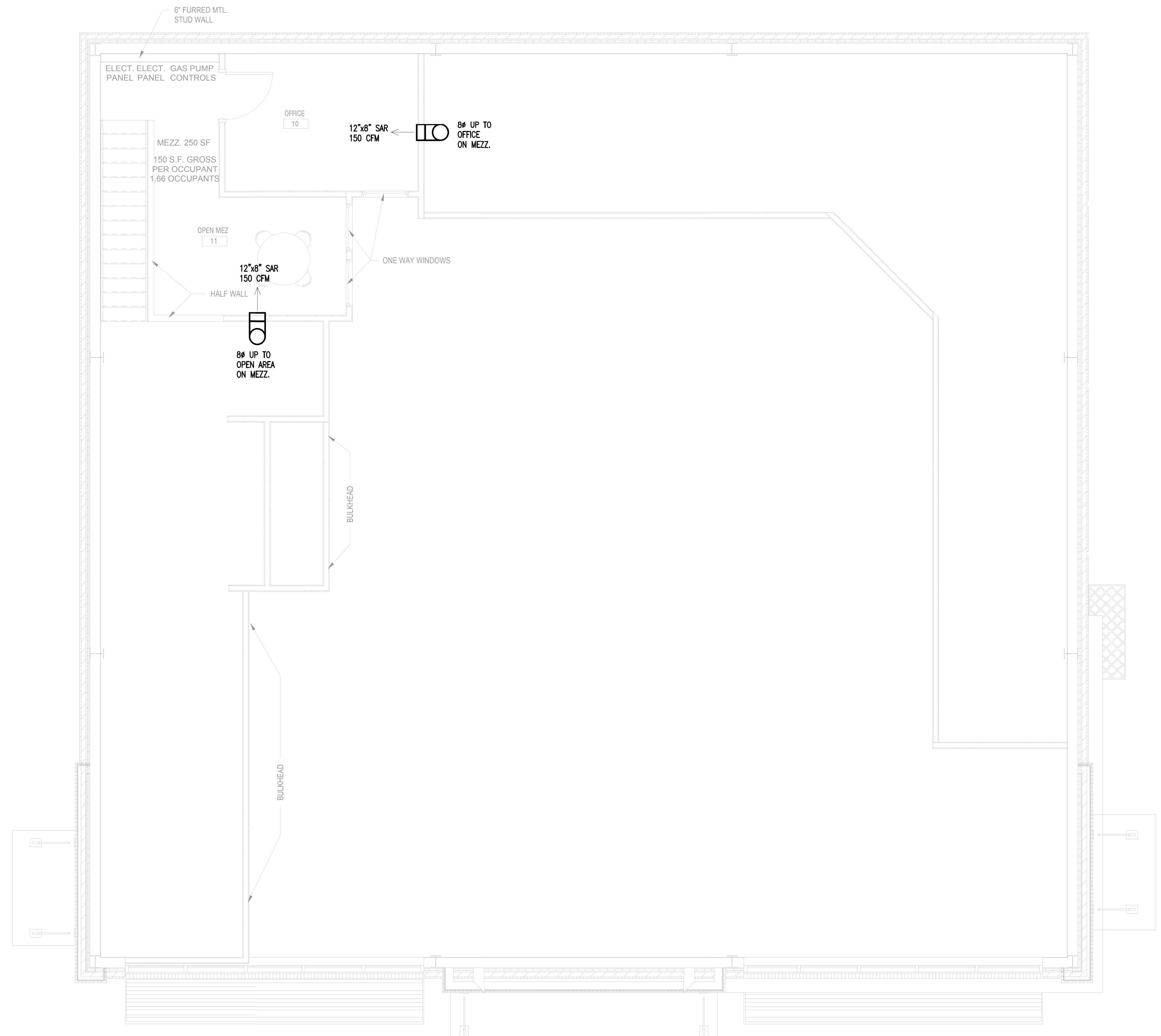


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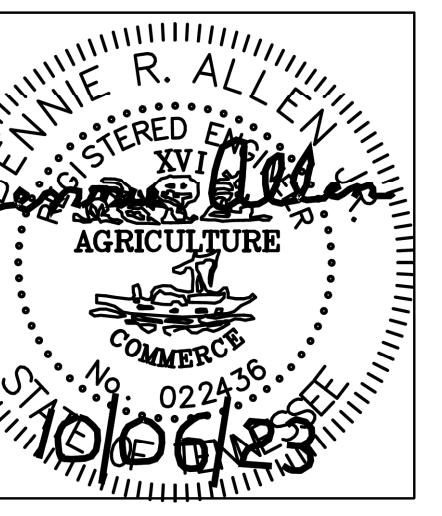
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SECOND FOOR HVAC PLAN

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



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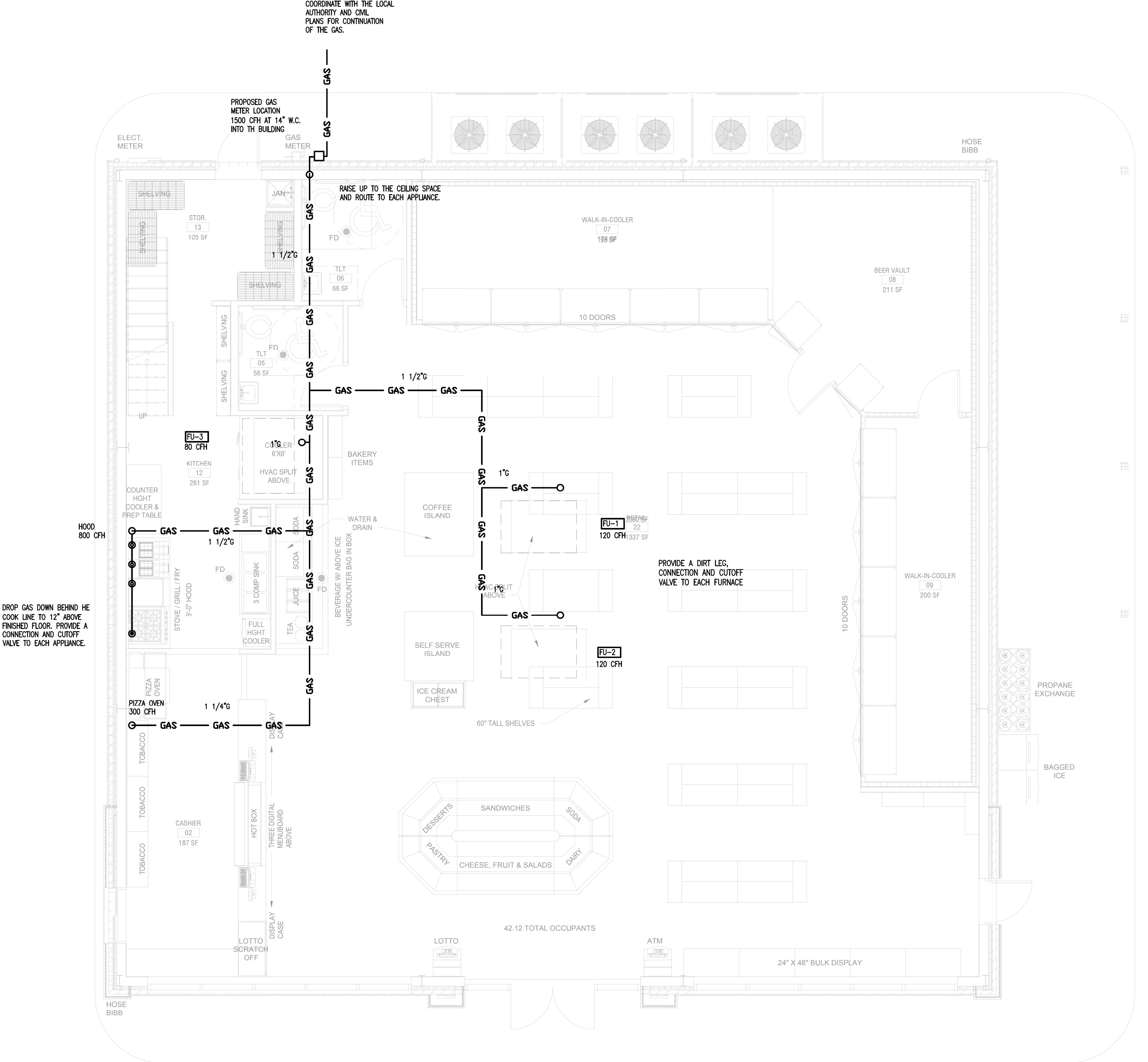
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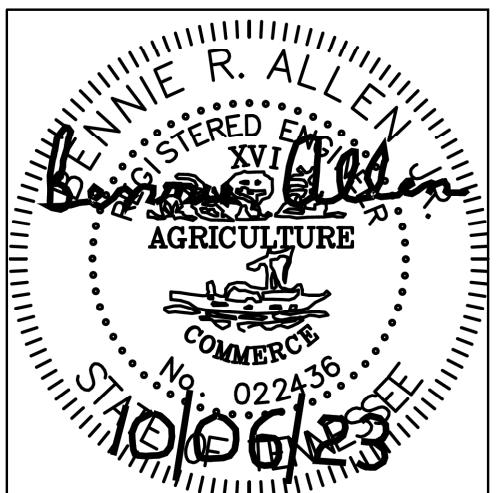
COORDINATE WITH THE LOCAL AUTHORITY AND CIVIL PLANS FOR CONTINUATION OF THE GAS.



FIRST FLOOR GAS PLAN

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

10/06/2023



Ben Allen P.E.
Mechanical Engineer

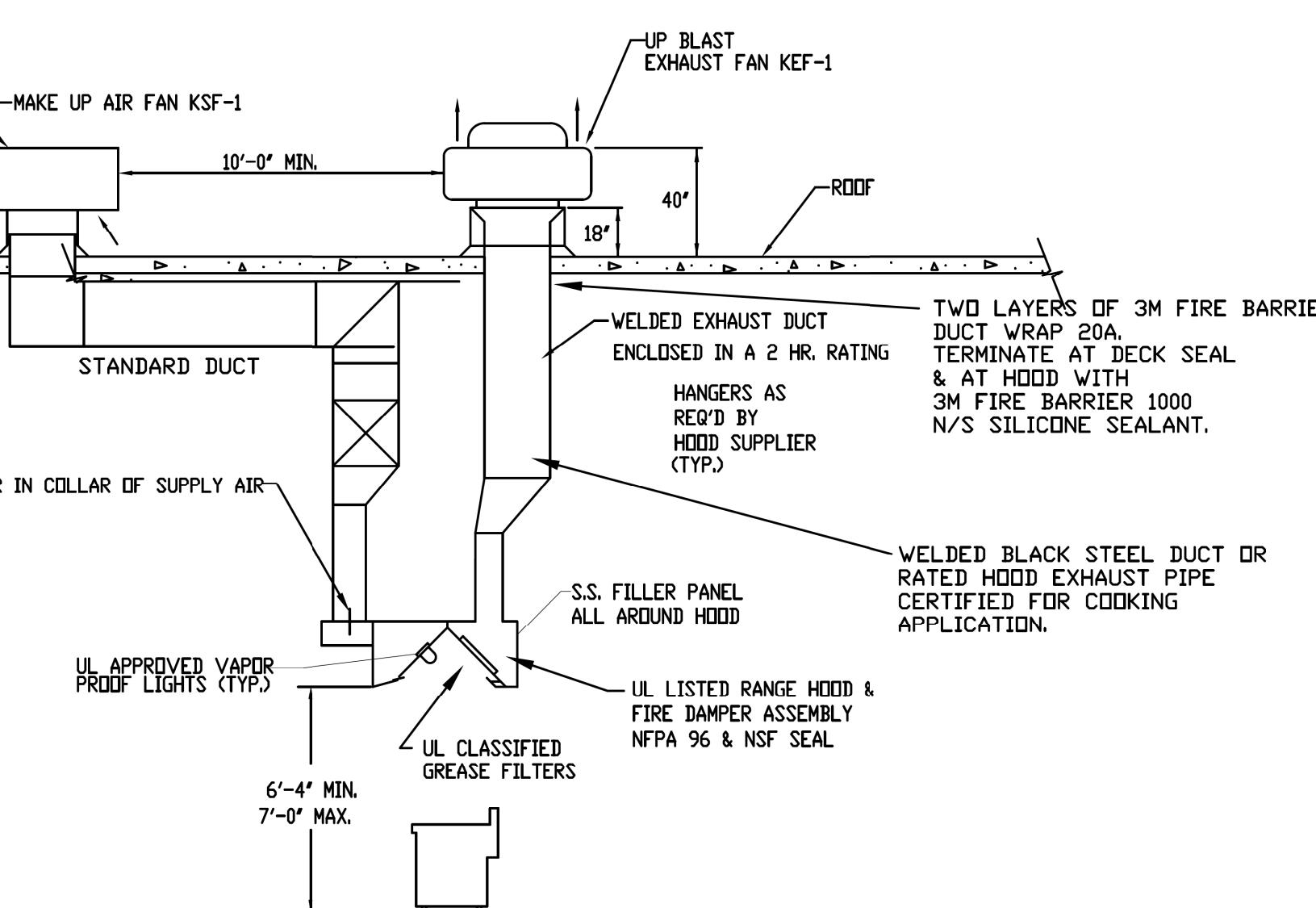
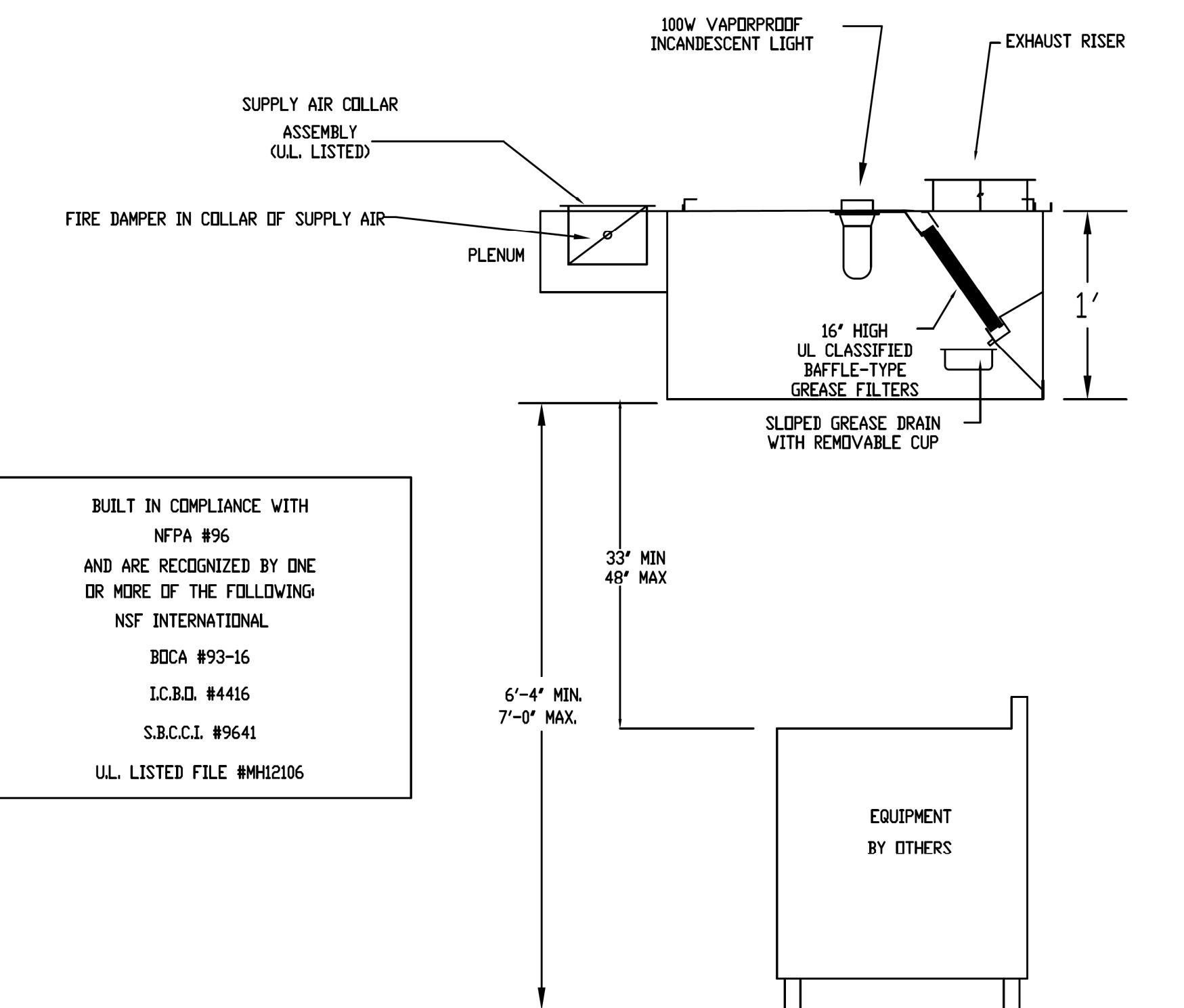
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**STEWART CREEK
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SMYRNA, TENNESSEE

10/06/2023

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KITCHEN-HOOD & MAKE-UP SYSTEM SCHEMATIC
NO SCALE

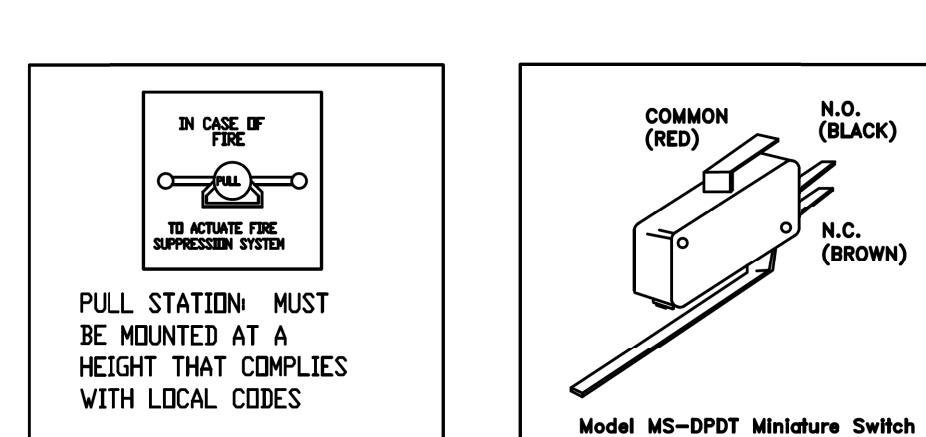
KITCHEN AIR BALANCE

EXHAUST	
HOOD EXHAUST FAN	2400 CFM
TOILETS & JANITOR ROOM	300 CFM
TOTAL EXHAUST	2700 CFM

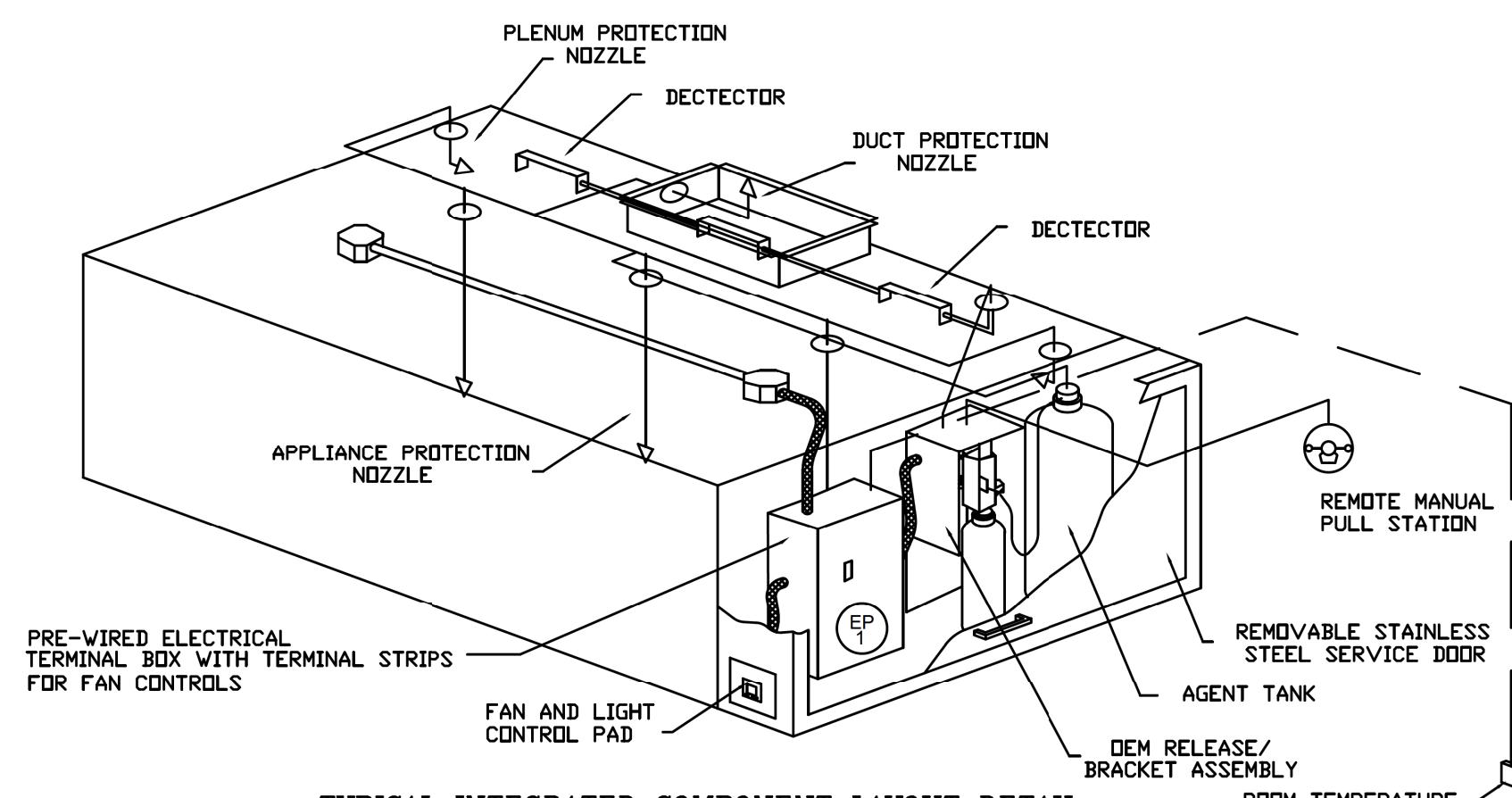
MAKE-UP	
HOOD SUPPLY	1920 CFM
HVAC SYSTEMS	1000 CFM
TOTAL MAKE-UP	2920 CFM

**GREASE EXHAUST FANS
STATIC PRESSURE CALCULATION**

HOOD TOTAL SP. (PER MFGR)	0.68"
STRAIGHT DUCT LOSS (60LF @ 12'/100')	0.07"
ELBOW LOSS PER SMACNA & ASHRAE GUIDELINES	0.25"
TOTAL	1.0"



ELECTRICIAN NOTES:
All Hood/Fan/EMS/UDS/PCU electrical connections and interconnections to be provided and installed by Electrician. All electrical to provide, install and tend lighting, green hood lights, hood temp sensors, remote Ansul system microswitches, and any other component requiring an electrical connection to the Captive-Air™ electrical package. Failure of the electrician to make ALL required electrical connections and interconnections will result in the electrical controls not working properly. Any loss or failed test as a result of electrical controls not working properly is the responsibility of the Electrician. Light bulbs for kitchen hoods to be provided and installed by electrician.



TYPICAL INTEGRATED COMPONENT LAYOUT DETAIL

**ACTUAL FIRE SYSTEM PIPING SCHEMATIC TO BE PROVIDED BY
CONTRACTED FIRE SYSTEM DISTRIBUTOR AT TIME OF PERMITTING**

SPECIFICATIONS

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL).

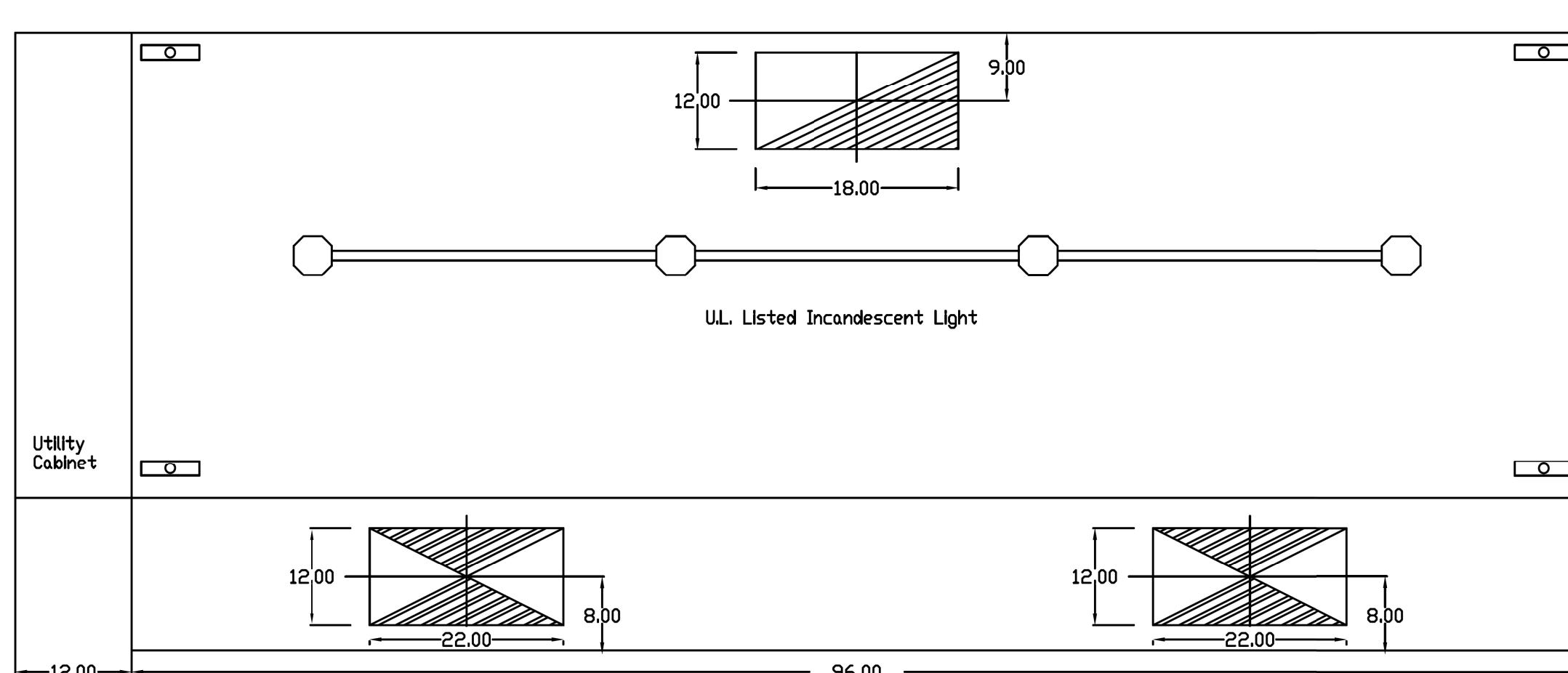
THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/LINKAGE ASSEMBLY.

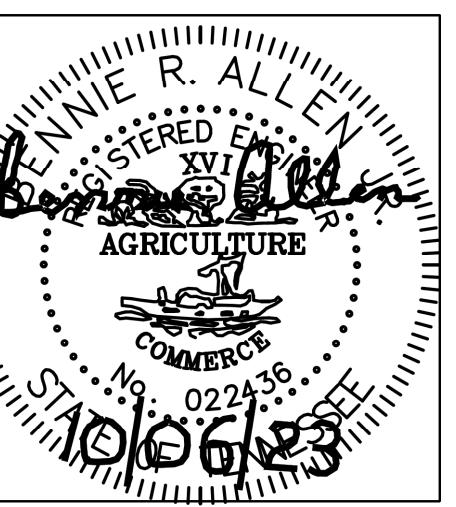
INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES), ONE MECHANICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.

EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.



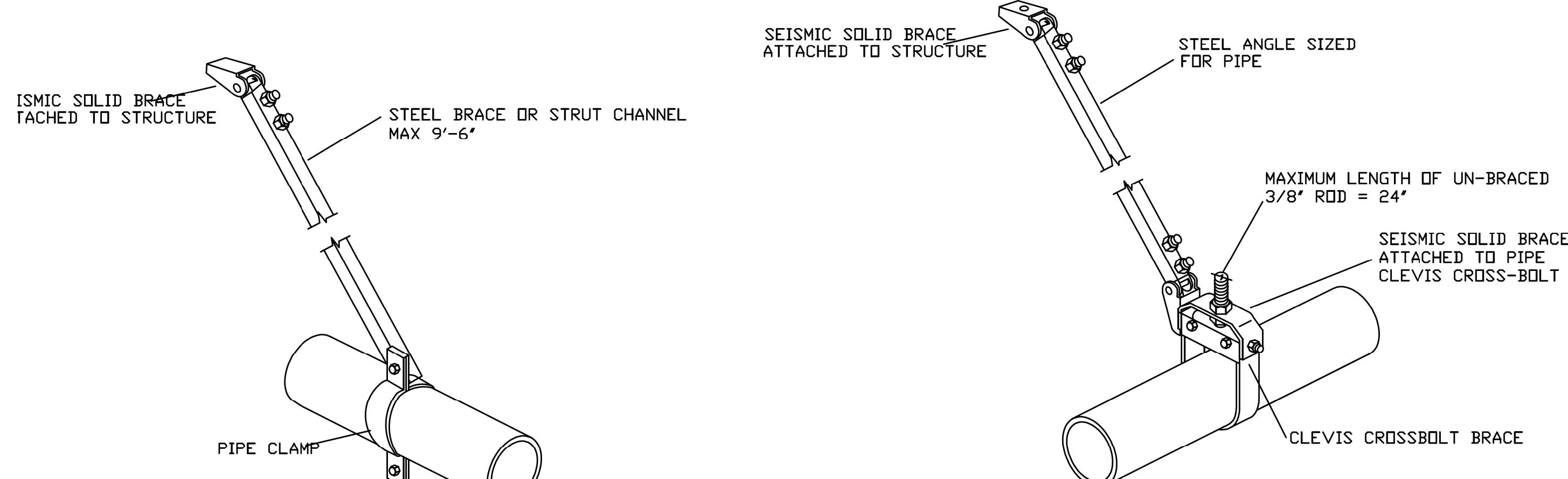
KITCHEN GENERAL NOTES

- PORTABLE ALKALINE FIRE EXTINGUISHER LISTED FOR EXTRA HAZARD. MOUNT ON WALL AT 5'-0" ABOVE FINISHED FLOOR.
- KITCHEN EXHAUST HOOD SHALL BE ONE HOOD 4'-0" X 8'-0". HOOD SHALL BE UL LISTED WITH DAMPER IN SUPPLY AIR AND SHALL BE EQUIPPED WITH ANSUL R-102 PRE-ENGINEERED FIRE SUPPRESSION SYSTEM FOR COMPLETE PROTECTION OF THE COOKING EQUIPMENT, DUCT SYSTEM AND HOOD IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 96. HOOD AND FIRE SUPPRESSION SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- GREASE EXHAUST HOOD MUST BE SECURELY SUPPORTED BY NON-COMBUSTIBLE SUPPORTS.
- KITCHEN HOOD SHALL BE INSTALLED SO THAT NO COMBUSTIBLE MATERIAL IS LOCATED WITHIN 18" OF THE HOOD.
- INSTALL CLEANDOUTS IN VERTICAL GREASE EXHAUST DUCTS AS REQUIRED BY NFPA.
- LOCATE ALL EXHAUST OUTLETS, PLUMBING VENTS, GAS FLUES, ETC. TO BE A MINIMUM OF 10'-0" AWAY FROM FRESH AIR INTAKE INTO THE BUILDING.
- INTERLOCK HOOD FIRE SUPPRESSION SYSTEM WITH SUPERVISED BUILDING FIRE ALARM SYSTEM. REFER TO WIRING DIAGRAM THIS SHEET.
- INTERLOCK KITCHEN HOOD SUPPLY FAN AND EXHAUST FAN SO THAT THESE FANS OPERATE AT THE SAME TIME.
- THE EXHAUST FAN AND LIGHT FIXTURES INSTALLED WITH THE KITCHEN HOOD SYSTEM SHALL BE UL LISTED FOR USE WITH THE HOOD SYSTEM FOR THE REMOVAL OF GREASE-LADEN VAPORS. EXHAUST FAN SHALL BE UL LISTED FOR GREASE REMOVAL PER UL 762.
- HOOD SHALL BE PRE-WIRED FOR ALL HOOD LIGHTING. FACTORY WIRING SHALL COMPLY WITH NEC AND NFPA AND SHALL TERMINATE IN A SINGLE JUNCTION BOX. 120-VOLTS, 600 WATTS REQUIRED FOR HOOD LIGHTING. DIVISION 16 SHALL PROVIDE POWER TO JUNCTION BOX FOR HOOD LIGHTING AND SHALL PROVIDE 'ON/OFF' SWITCH FOR LIGHTING CONTROL.
- INTERLOCK UNIT SUPPLY FAN WITH GREASE EXHAUST FAN TO OPERATE WHENEVER THE GREASE FAN OPERATES.
- ALL MOTORS, FANS AND EXHAUST OUTLETS SHALL BE APPROVED AND RATED FOR CONTINUOUS OPERATION AND SHALL COMPLY WITH STANDARD MECHANICAL CODE 308.5, 308.4.11 AND NFPA 96 CHAPTERS 5 AND 6. ALL WIRING MUST CONFORM TO THE NATIONAL ELECTRIC CODE.
- MOTORS, LIGHTS AND OTHER ELECTRICAL DEVICES SHALL BE LISTED FOR USE IN GREASY ATMOSPHERES.
- HOOD EXHAUST FAN SHALL CONTINUE TO OPERATE AFTER THE FIRE SUPPRESSION SYSTEM HAS BEEN ACTIVATED.
- HOOD EXHAUST FAN SHALL CONTINUE TO OPERATE ANY TIME THE TEMPERATURE RISES UNDER THE HOOD (ADJ. SETPOINT) AND CONTINUE TO OPERATE UNTIL THE TEMPERATURE DROPS BELOW THE SET POINT.



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SEISMIC NOTES FOR BRACING PIPES

1. BRAKE ALL PIPES 2 1/2" DIAMETER AND LARGER; EXCEPTIONS:
 - A. BRAKE ALL PIPING 1 1/4" AND LARGER LOCATED IN MECHANICAL EQUIPMENT ROOMS; BRAKING REQUIREMENTS FOR PIPES LESS THAN 2 1/2" IN DIAMETER SHALL BE THE SAME AS FOR 2 1/2" PIPES IN ALL LOCATIONS.
 - B. BRAKE ALL FUEL GAS PIPING NO EXCEPTIONS.
 - C. SEISMIC BRACE MAY BE OMITTED (EXCEPT GAS)
2. WHEN THE TOP OF THE PIPE IS SUSPENDED 12" OR LESS FROM THE SUPPORTING STRUCTURAL MEMBERS AND THE PIPE IS SUSPENDED BY AN INDIVIDUAL HANGER, SEISMIC BRACING IS NOT REQUIRED EXCEPT FOR THE POINT IN THE RUN. SEISMIC BRACING IS REQUIRED FOR THE ENTIRE RUN.
 - a. THE 12" EXEMPTION APPLIES TO TRAPEZE SUPPORTED SYSTEMS IF THE TOP OF EACH ITEM SUPPORTED BY THE TRAPEZE QUALIFIES.
 - b. ALL PIPING 3/4" DIAMETER AND SMALLER.
3. DETAILS SHOWN PROVIDE A LATERAL BRACING SYSTEM. A TYPICAL VERTICAL SUPPORT SYSTEM MUST ALSO BE USED.
 - A. VERTICAL PIPING
 - 1) ATTACHMENT - VERTICAL PIPING SHALL BE SECURED AT SUFFICIENTLY CLOSE INTERVALS TO KEEP THE PIPE IN ALIGNMENT AND CARRY THE WEIGHT OF THE PIPE AND CONTENTS. STACKS SHALL BE SUPPORTED AT THEIR BASES.
 - 2) COPPER TUBING - COPPER TUBING SHALL BE SUPPORTED AT EACH STORY PERMITTED BY APPROVED STANDARDS. PIPING 1 1/2" AND SMALLER IN DIAMETER, 6 FOOT INTERVALS FOR PIPING 1 1/2" AND SMALLER IN DIAMETER.
 - 3) PIPES OF OTHER APPROVED MATERIAL SHALL BE SUPPORTED IN ACCORDANCE WITH THEIR APPROVED INSTALLATION STANDARDS.
 - B. HORIZONTAL PIPING
 - 1) SUPPORTS - HORIZONTAL PIPING SHALL BE SUPPORTED AT SUFFICIENTLY CLOSE INTERVALS TO KEEP IT IN ALIGNMENT AND PREVENT SAGGING.
 - 2) TRANSVERSE BRACING AT 40°-0' D.C. MAXIMUM UNLESS OTHERWISE NOTED.
 3. LONGITUDINAL BRACING AT 80°-0' D.C. MAXIMUM UNLESS OTHERWISE NOTED.
 5. TRANSVERSE BRACING FOR ONE PIPE SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR ANOTHER SECTION PROVIDED THE BRACING IS INSTALLED WITHIN 24" OF THE ELBOW OR TEE OF SIMILAR SIZE.
 6. DO NOT USE BRANCH LINES TO BRAKE MAIN LINES.
7. A RIGID PIPING SYSTEM SHALL NOT BE BRAZED TO DISSIMILAR PARTS OF BUILDING OR TWO DISSIMILAR BUILDING SYSTEMS THAT MAY RESPOND IN A DIFFERENT MODE DURING AN EARTHQUAKE. EXAMPLES: WALL AND A ROOF; SOLID CONCRETE WALL AND A METAL DECK WITH LIGHTWEIGHT CONCRETE FILL.
8. PROVIDE LARGE ENOUGH PIPE SLEEVES THROUGH WALLS OR FLOORS TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENTS.
9. AT VERTICAL PIPE RISERS, WHEREVER POSSIBLE, SUPPORT THE WEIGHT OF THE RISER AT A POINT OR POINTS ABOVE THE CENTER OF GRAVITY OF THE RISER. PROVIDE VERT. GUIDING AT TOP AND BOTTOM OF THE RISER, AND AT INTERMEDIATE JOINTS NOT TO EXCEED 30°-0' ON CENTER.
10. CAST IRON PIPE IN ALL TYPES, AND ANY OTHER PIPE JOINED WITH A SHIELD AND CAMP ASSEMBLY WHERE THE TOP OF THE PIPE IS 12" OR MORE FROM SUPPORTING STRUCTURE SHALL BE BRAZED ON EACH SIDE OF A CHANGE IN DIRECTION OF 90° OR MORE. RISER JOINTS SHALL BE BRAZED OR STABILIZED BETWEEN FLOORS.
11. FOR GAS PIPING, THE BRAZING DETAILS, SCHEDULES AND NOTES MAY BE USED EXCEPT THAT TRANSVERSE BRACING SHALL BE AT 20°-0' D.C. MAXIMUM AND LONGITUDINAL BRACING AT 40°-0' D.C. MAXIMUM ALSO. 1 1/2" AND 2" DIAMETER PIPES SHALL BE BRAZED (SAVE 2 1/2" DIAMETER IF IN THE SCHEDULE). (NO BRAZING IS REQUIRED FOR PIPES 3/4" DIAMETER AND SMALLER).

SOLID BRACE RESTRAINT SYSTEM FOR PIPES

"LONGITUDINAL" TYPICAL

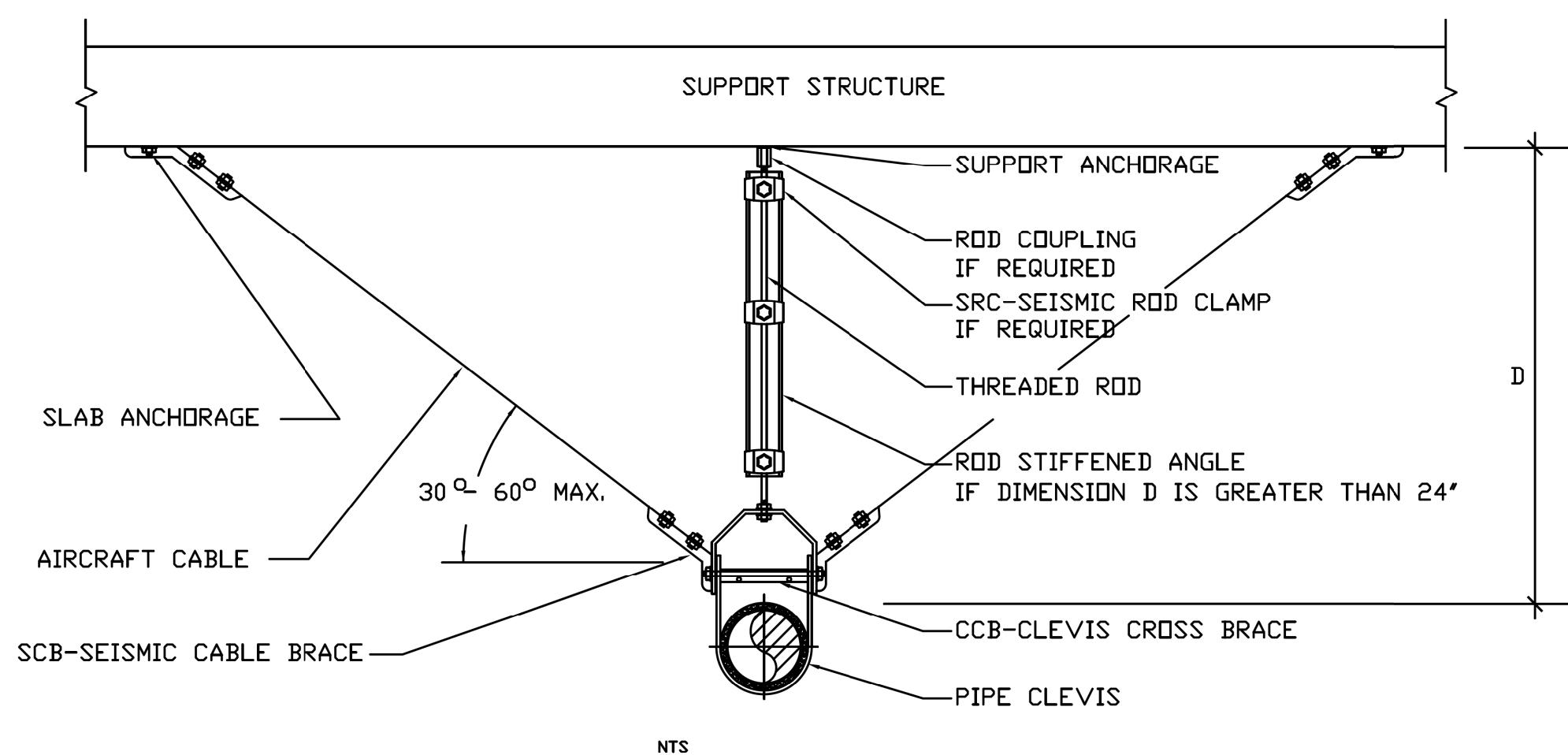
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SOLID BRACE RESTRAINT SYSTEM FOR PIPES TYPICAL

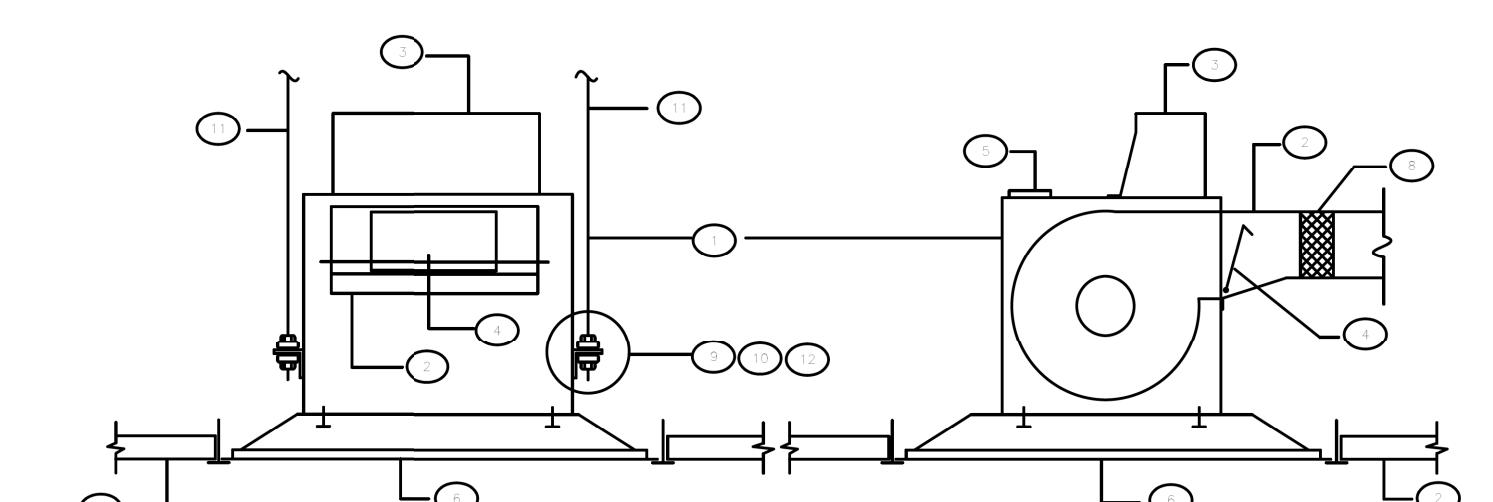
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SEISMIC RESTRAINTS FOR HVAC EQUIPMENT AND PIPING WILL BE AS DESIGNED AND CERTIFIED BY MASON INDUSTRIES OR KINETICS NOISE CONTROL. CONTRACTOR MAY USE THE SERVICES OF A REGISTERED STRUCTURAL ENGINEER TO CERTIFY ANY SUPPORTS USED BY THE CONTRACTOR AS LONG AS THEY MEET THE SEISMIC REQUIREMENTS OF ZONE 3.

CONTRACTOR MUST ENLIST THE SERVICES OF A LICENSED ENGINEER TO CERTIFY THE INSTALLATION AND PROVIDE A CERTIFICATION LETTER TO BE SUBMITTED TO THE COLLIERVILLE CODE DEPARTMENT.



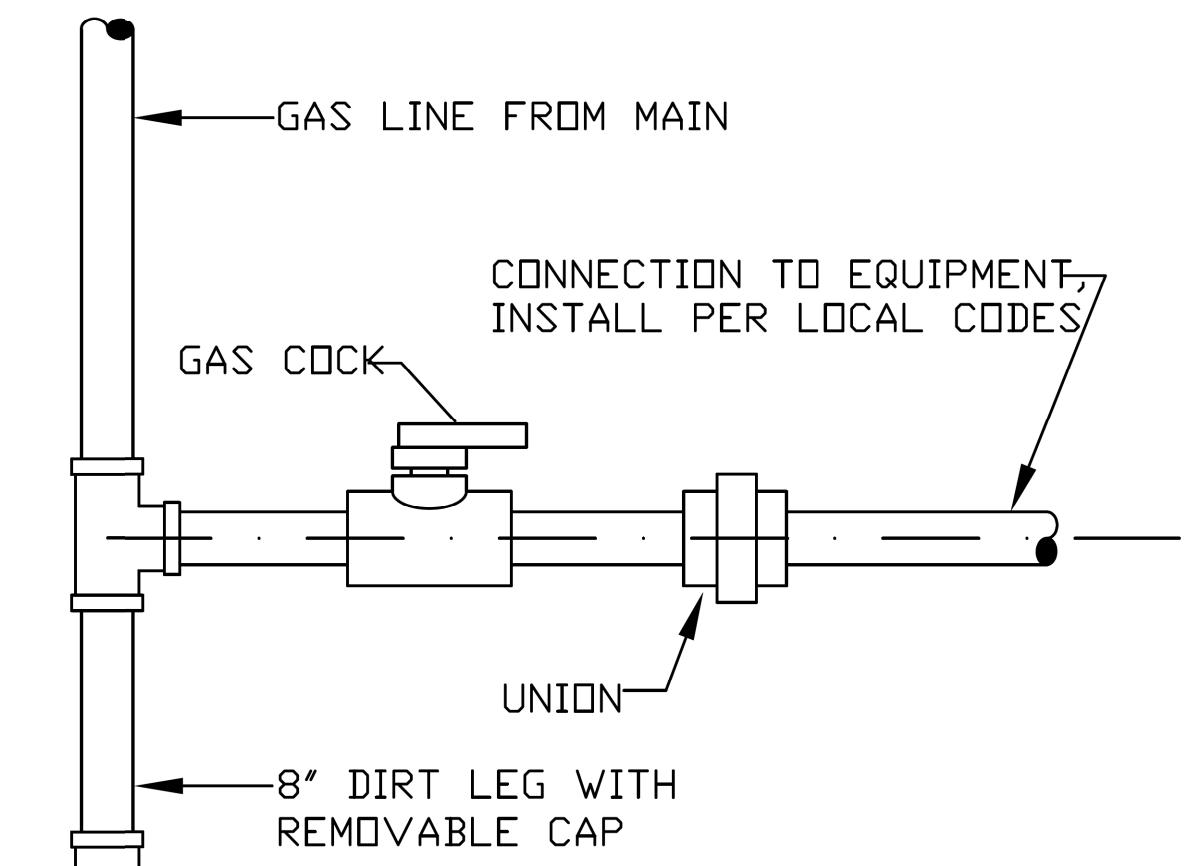
SEISMIC CABLE BRACE GUIDELINES FOR CLEVIS SUPPORT PIPE



CEILING EXHAUST FAN DETAIL

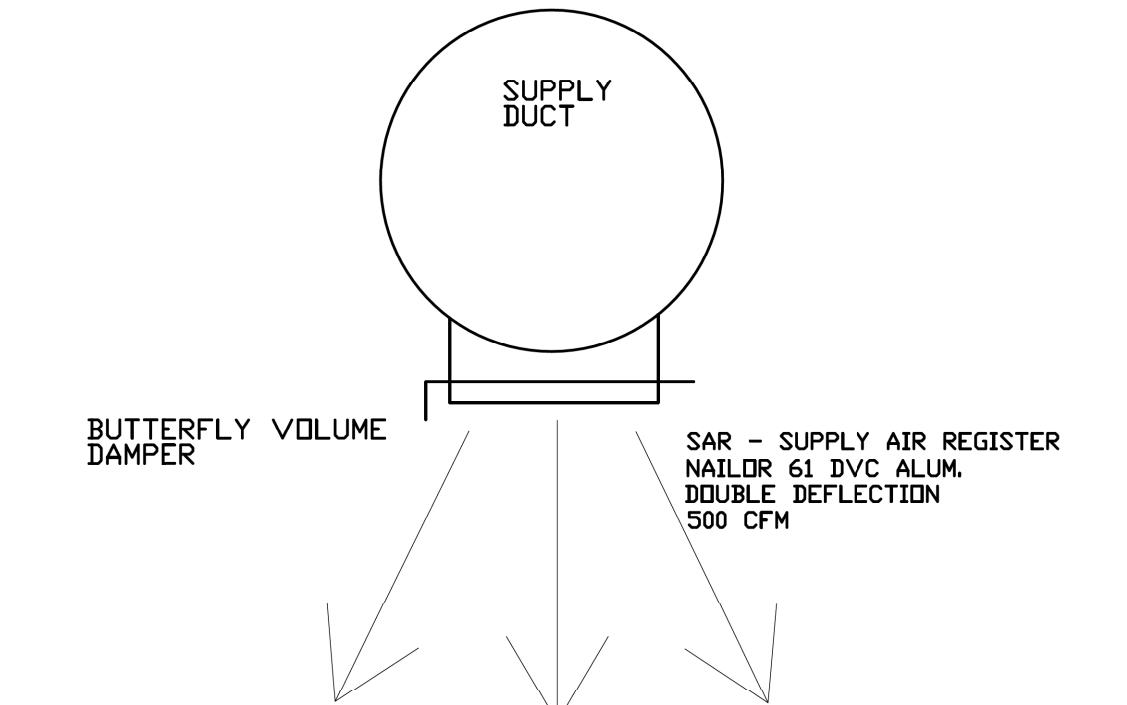
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- GALVANIZED STEEL HOUSING
- HORIZONTAL DISCHARGE DUCT CONNECTION
- OPTIONAL VERTICAL DISCHARGE
- BACKDRAFT DAMPER
- EXTERNAL ELECTRICAL ACCESS COVER
- 24"X24" PERFORATED GRILLE
- CEILING TILE
- FLEXIBLE DUCT CONNECTOR
- ADJUSTABLE MOUNTING FLANGE
- VIBRATION ISOLATOR, TOP AND BOTTOM
- 3/16" DIAMETER THREADED HANGER RODS, TOTAL OF FOUR, SUPPORT FROM BUILDING STRUCTURE.
- NUT AND WASHER



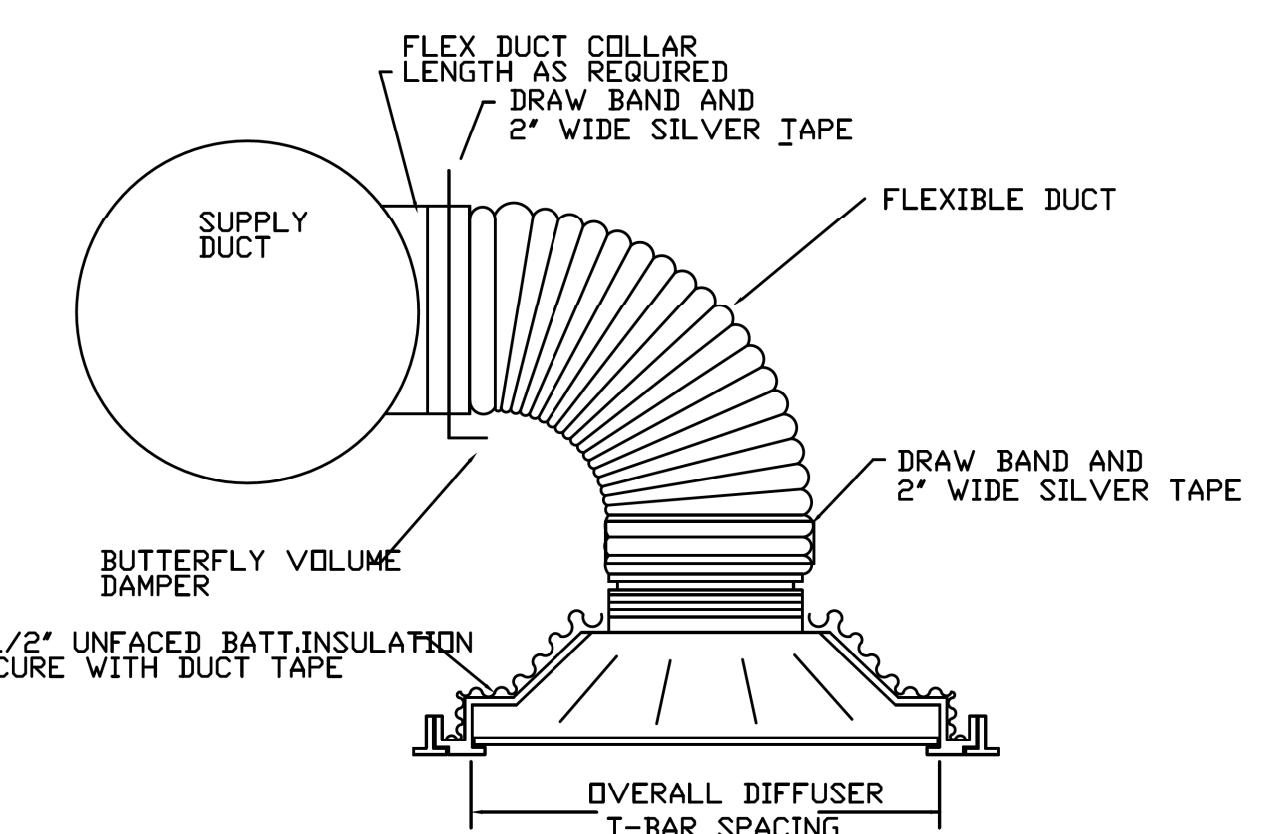
GAS CONNECTION DETAIL

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REGISTER CONNECTION DETAIL

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DIFFUSER CONNECTION DETAIL

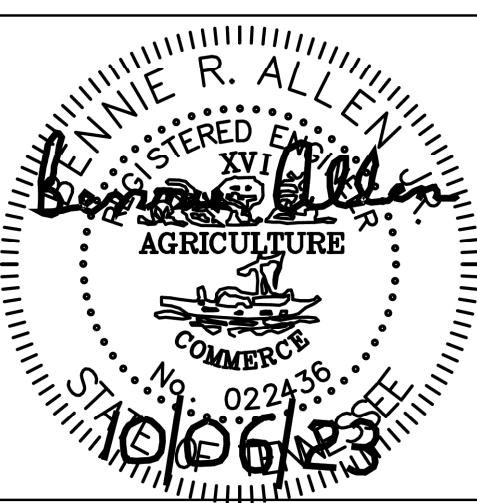
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STEWART CREEK
STATION

SMYRNA, TENNESSEE

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SPLIT SYSTEM SCHEDULE

FURNACE

MARK	MFR. & MODEL	TOTAL CFM	RA CFM	OSA CFM	HTG. INPUT BTUH	ESP	HP	MCA MOCP	VOLTAGE	COOLING COIL			CONDENSING UNIT				
										MFR & MODEL	TOTAL COOLING	SENS. COOLING	MARK	MFG	MCA	MOCP	VOLTAGE
FU-1	CARRIER 58ST120	2000	1600	400	120,000	.5"	3/4	14.4 ²⁰	120/1/60	CARRIER COIL CNPVP	60,000	48,000	CU-1	CARRIER 24ABR60	35	50	208/1/60
FU-2	CARRIER 58ST120	2000	1600	400	120,000	.5"	3/4	14.4 ²⁰	120/1/60	CARRIER COIL CNPVP	60,000	48,000	CU-2	CARRIER 24ABR60	35	50	208/1/60
FU-3	CARRIER 58ST080	1200	1000	200	80,000	.5"	1/2	14.4 ²⁰	120/1/60	CARRIER COIL CNPVP	36,000	28,800	CU-3	CARRIER 24ABR36	28	35	208/1/60

NOTES:

1. SMOKE DETECTOR TO BE FURNISHED AND INSTALLED PER ALL CODES.
IN THE RETURN AIR DUCT.
2. CONTRACTOR SHALL EXAMINE AND COORDINATE WITH ALL COMPONENTS OF
BUILDING CONSTRUCTION PRIOR TO LOCATING & SETTING OF H.V.A.C.
EQUIPMENT AND NOTIFY ARCHITECT OF ANY CONFLICT.

3. PROVIDE THERMOSTAT.
4. PROVIDE CONDENSATE DRAIN.
5. PROVIDE 7/8" SUCTION & 3/8" LIQUID LINES.
6. PROVIDE EMERGENCY DRAIN PAN UNDER EACH COOLING COIL AND FURNACE
WITH FAN SHUT OFF FLOAT SWITCH. RUN EMERGENCY DRAIN TO OUTSIDE OF BUILDING.

AIR DISTRIBUTION SCHEDULE

MARK	DESCRIPTION	MANUFACTURER & MODEL NO. EQUAL TO
SAD	PERFORATED FACE, CEILING DIFFUSER	TITUS # PCS, FRAME STYLE 3 W/ O.B.D.
SAR	LOUVERED FACE, SUPPLY REGISTER	TITUS # 300RL W/ O.B.D.
RAG	PERFORATED FACE, CEILING RETURN	TITUS # PAR, FRAME TO MATCH CEILING
TAG	PERFORATED FACE, CEILING TRANSFER	TITUS # PAR, FRAME TO MATCH CEILING
TAG-1	LOUVERED FACE, TRANSFER GRILLE	TITUS # 350RL W/ O.B.D.
EAR	LOUVERED FACE, EXHAUST REGISTER	TITUS # 350FL W/ O.B.D. - ALUMINUM

NOTES:

1. ALL INTERIOR AIR DISTRIBUTION DEVICES TO BE OFF-WHITE UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.
2. ALL RUNDOWN SIZES TO AIR DEVICES TO BE NECK SIZE, UNLESS NOTED OTHERWISE.

FAN SCHEDULE

MARK	CFM	SPWG, INCHES	RPM	SONES	ELECTRICAL		SERVICE	ACCESSORIES	TYPE FAN	COOK	REMARKS
					HP (WATTS)	VOLTAGE					
EF-1	100	0.25"	1013	1.7	41	120/1/60	EF	EDWSWBES	CEILING FAN	GC-140	-
EF-2	100	0.25"	1013	1.7	41	120/1/60	EF	EDWSWBES	CEILING FAN	GC-140	-
EF-2	100	0.25"	1013	1.7	41	120/1/60	EF	EDWSWBES	CEILING FAN	GC-140	-
KEF-1	2400	1.0	-	-	3/4 HP	120/1/60	EF	RO	SIDEWALL OR ROOF FAN	30 LBS	
KSF-1	1920	0.375	-	-	1/2 HP	120/1/60	SF	ROED	ROOF FAN	30 LBS	

SERVICE:

NOTES:

EF - EXHAUST FAN 1. MAKE ALL WALL/ROOF PENETRATIONS WEATHERTIGHT.

SF - SUPPLY FAN 2. SEE FLOOR PLAN FOR EXHAUST FAN QUANTITIES.

ED GRAVITY BACK-DRAFT DAMPER
WS WALL SWITCH (WITH PILOT)
WJ WALL JACK

MECHANICAL LEGEND

(D)	BACKDRAFT DAMPER		CEILING RETURN GRILLE/REGISTER WITH 18" OPEN-END BOOT	AC..... AIR COND. UNIT
(S)	WALL SWITCH		CEILING DIFFUSER WITH FLEXIBLE DUCT; DUCT NOT TO EXCEED 6 FEET IN LENGTH	AFF.... ABOVE FINISHED FLOOR
(T)	ROOM THERMOSTAT (MOUNTED AT 54" AFF)		OOOO FLEXIBLE DUCT NOT TO EXCEED 6 FEET IN LENGTH	AHU.... AIR HANDLING UNIT
(S)	SMOKE DETECTOR		DRAIN LINE	BD.... BALANCING DAMPER
	TRANSFER AIR GRILL WITH INSULATED BOOT		REFRIGERANT LINES	CD.... CEILING DIFFUSER
	RETURN AIR DUCT, GRILLE OR REGISTER		GAS LINES	CFM... CUBIC FEET/MIN.
	SUPPLY AIR DUCT, DIFFUSER, GRILLE OR REGISTER		SUCTION LINES (REFRIGERANT)	CR.... CEILING RETURN
	EXHAUST AIR DUCT, GRILLE OR REGISTER		LIQUID LINES (REFRIGERANT)	CT.... COOLING TOWER
	CO2 MONITOR		PIPE TURN-UP	DG.... DOOR GRILLE
	CEILING EXHAUST FAN (IN LINE TYPE)		PIPE TURN-DOWN	DH.... DUCT HEATER
	ROOF EXHAUST FAN		LONG RADIUS ELBOW	EA.... EXHAUST AIR
8"	8 INCH ROUND DUCT		FLEXIBLE PIPE CONNECTOR	EAG... EXHAUST AIR GRILLE
	FIRE DAMPER AT WALL		SIGHT GLASS MOISTURE INDICATOR	EF.... EXHAUST FAN
	FIRE OR RADIATION DAMPER AT CEILING		SMOKE TIGHT WALL	FA.... FRESH AIR INTAKE
824 SAD	8" ROUND NECK, 24" FACE SUPPLY AIR DIFFUSER		FIRE RATED WALL	FCU.... FAN COIL UNIT
	BALANCING DAMPER			FD.... FIRE DAMPER
				KH.... KITCHEN HOOD
				NTS.... NOT TO SCALE
				DA.... OUTSIDE AIR
				RA.... RETURN AIR
				RD.... RADIATION DAMPER
				RAG... RETURN AIR GRILLE
				RTU.... ROOFTOP UNIT
				SA.... SUPPLY AIR
				SAD... SUPPLY AIR DIFFUSER
				SF.... SUPPLY FAN
				SAR... SIDEWALL REGISTER
				TAG... TRANSFER AIR GRILLE
				UC.... UNDER-CUT
				V.... VENT
				VTR... VENT THRU ROOF

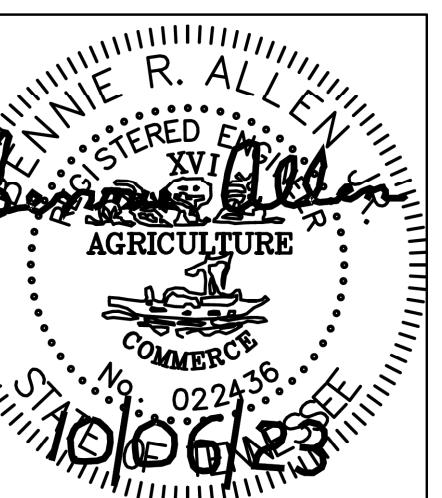
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STEWART CREEK
STATION
SMYRNA, TENNESSEE

Ben Allen P.E.
Mechanical Engineer

63 Moseley Lane
Conway, AR. 72032



SECTION 1 5500-MECHANICAL SPECIFICATIONS

1.0 PLUMBING/CONDENSATE DRAIN PIPING:

A. N/A

B. Unless otherwise noted, all water piping shall be routed above sheet-rock ceilings and/or in walls or chases with offsets, as required, to miss obstacles; coordinate with other trades prior to installation.

C. No PVC piping or other materials shall be routed or installed in return air plenums or free pulling mechanical rooms; insulate vent stacks with PVC materials in these areas with 2" external R-6 duct wrap with FSK foil backing and vapor seal with SMACNA approved tape.

D. Water piping below slab floor and finished grade shall be sleeved with 3/4" Armaflex tubing insulation; insulation minimum length shall be three feet; piping shall be tested at 300 PSI prior to earth fill and covering.

E. All copper pressure piping for potable water and condensate drains shall be soldered entirely with silver solder with less than 0.2% lead per SBCCI Standard Plumbing Code.

F. All water piping must be disinfected in accordance with SBCCI Standard Plumbing Code and verified by written report from the local and State Boards of Health.

G. Utility connections indicated on documents are the best information available to the design engineer and shall be field verified by the contractor prior to installation.

H. All piping inverts will be established after finished floor elevations and utility sewer inverts are determined.

I. Prior to cover-up or back-fill of soil-waste-vent piping (below finished grade/floor areas) systems shall be filled with water and tested at ten (10) foot head with all fittings and joints open for review by Engineer and/or local building inspection department. Any piping not inspected will be removed with damages to be fully repaired by this contractor.

J. All water piping shall be tested at a minimum of 150 PSI for 2 hours, with no leaks, prior to insulation or connections to local utilities; review of test shall be by Engineer or local utility official.

K. All piping materials shall be of the following:

- 1. Soil-Waste-Vent Piping
 - a. schedule 40 PVC with solvent welding
- 2. Potable Water Piping
 - a. below floor-type "L" soft copper (pressure tested)
 - b. above floor-type "L" hard copper with wrought copper fittings
- 3. Condensate Piping
 - a. copper type "K" hard drawn
- 4. Natural Gas Piping
 - a. schedule 40 black iron steel per local code
- 5. Insulation
 - a. potable water piping (hot water piping with cold water piping in non-conditioned areas) shall be 1" thick tubing insulation with Universal jacket; fittings shall be furnished with "Zeston" plastic fitting covers
- 6. Pipe Hangers
 - a. pipe hanger spacing and sizing shall be in accordance with Chapter 10 of SBCCI Standard Plumbing Code; hanger strap or bands will not be permitted
- 7. Cleanouts
 - a. floor cleanouts (FCO) to be equal to Wade #W-6030-SV-2TS
 - b. outside cleanouts (COTG) to be equal to Wade #W-6030-SV-2 in 18" square by 6" thick concrete pad flush with finished grade
 - c. wall cleanout (WCO) to be equal to J.R. Smith #4420
- 8. Valves
 - a. ball valves equal to Hammond #806
 - b. check valves equal to Hammond #915

1.1 PIPING SPECIALTIES:

A. Escutcheons: Chrome-plated, stamped steel, hinged, split-ring escutcheon, with set screw. Inside diameter shall closely fit pipe outside diameter, or outside of pipe insulation where pipe is insulated. Outside diameter shall completely cover the opening in floors, walls, or ceilings.

B. Unions: Malleable-iron, Class 150 for low pressure service and class 250 for high pressure service; hexagonal stock, with ball-and-socket joints, metal-to-metal bronze seating surfaces; female threaded ends.

C. Dielectric Unions: Provide dielectric unions with appropriate end connections for pipe materials in which installed (screwed, soldered, or flanged), which effectively isolate dissimilar metals, to prevent galvanic action, and stop corrosion.

D. Dielectric Waterway Fittings: Electroplated steel or brass nipple, with an inert and non-corrosive, thermoplastic lining.

E. Y-Type Strainers: Provide strainers full line size of connecting piping, with ends matching piping system materials. Screens shall be Type 304 stainless steel, with 3/64" perforations at 233 per square inch.

F. Sleeves:

- 1. Sheet-Metal Sleeves; 10 gage, galvanized sheet metal, round tube closed with welded longitudinal joint.
- 2. Steel Sleeves: Schedule 40 galvanized, welded steel pipe, ASTM A53, Grade A.

G. Mechanical Sleeve Seals: Modular mechanical type, consisting of interlocking synthetic rubber links shaped to continuously fill annular space between pipe and sleeve, connected with bolts and pressure plates which cause rubber sealing elements to expand when tightened, providing watertight seal and electrical insulation.

H. Contractor shall maintain the integrity of all fire walls, structures, ceilings and floor systems with "Pro-Set" approved fire system materials; verify all ratings with architectural construction documents.

1.2 IDENTIFICATION:

A. Equipment and piping identification marking shall be black stenciled 3/4" high letters applied over finished painting and shall comply with ANSI specifications, local codes or as herein described. Identification must include unit number, area served, flow direction (air, water, refrigerant, gas, etc.) and material type (supply air, return air, exhaust air, chilled water supply, chilled water return, etc.). All valve tags are to be applied to valves controlling main, risers and branches. Valve tags shall be plastic not less than 7-1/2" wide with 3/4" high stamped numbers and coded lettering.

B. All equipment, air distribution and piping shall be properly identified and labeled for easy understanding of systems and flows.

C. Water and natural gas piping shall be labeled with painted color stencils (minimum 1" high) indicated material type (hot, cold, discharge, liquid, etc.) with flow direction.

D. Duct systems (supply, exhaust, and return) to be labeled (same as piping) with directional arrow for air flow; labeling must be at equipment and every 20 feet of systems.

1.3 PIPING INSTALLATIONS:

A. Ream ends of pipes and tubes, and remove burrs. Bevel plain ends of steel pipe.

B. Remove scale, slag and dirt for both inside and outside of piping and fittings before assembly.

C. Conceal all pipe installations in walls, pipe chases, utility spaces, above ceilings, below grade of floors, unless indicated otherwise.

D. Install piping free of sags or bends and with ample space between piping to permit proper insulation applications.

E. Install exposed piping at right angles or parallel to building walls. Diagonal runs are not permitted, unless expressly indicated on the construction documents.

F. Install piping tight to slabs, beams, joists, columns, walls and other permanent elements of the building. Provide space to permit insulation applications, with 1" clearance outside the insulation. Allow sufficient space above removable ceiling panels to allow for panel removal.

G. Locate groups of pipes parallel to each other, spaced to permit applying full insulation and servicing of valves.

H. Install drains at low points in mains, risers and branch lines consisting of a tee fitting, 3/4" ball valve, and a short 3/4" threaded nipple and cap.

I. Exterior Wall Penetrations: Seal pipe penetrations through exterior walls using sleeves and mechanical sleeve seals. Pipe sleeves smaller than 6" shall be steel; pipe sleeves 6" and larger shall be sheet metal.

J. Fire Barrier Penetrations: Where pipes pass through fire rated walls, partitions, ceilings, or floors, the fire rated integrity shall be maintained with "Pro-Set" material.

K. Use pipe fittings for all changes in directions and all branch connections.

L. Remake leaking joints using new materials.

M. Install strainers on the supply side of each piping control valve, pressure reducing or regulating valve; solenoid valve, and elsewhere as required.

N. Install unions adjacent to each valve, and at the final connection to each piece of equipment and plumbing fixture having 2" and smaller connections, and elsewhere as required.

O. Install flanges in piping 2-1/2" and larger, adjacent to each valve, at the final connections.

P. Install dielectric unions to connect piping materials of dissimilar metals in dry and wet piping systems (water, steam, gas, compressed air, vacuum).

Q. All underground piping shall be painted with a minimum of two coats of black asphaltum; material embedded in concrete need not be painted. Pipes protruding through concrete floors shall be bitumastic coated at the point of breach.

PLUMBING SPECIFICATIONS

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STEWART CREEK
STATION

SMYRNA, TENNESSEE

10/06/2023

P-1.00



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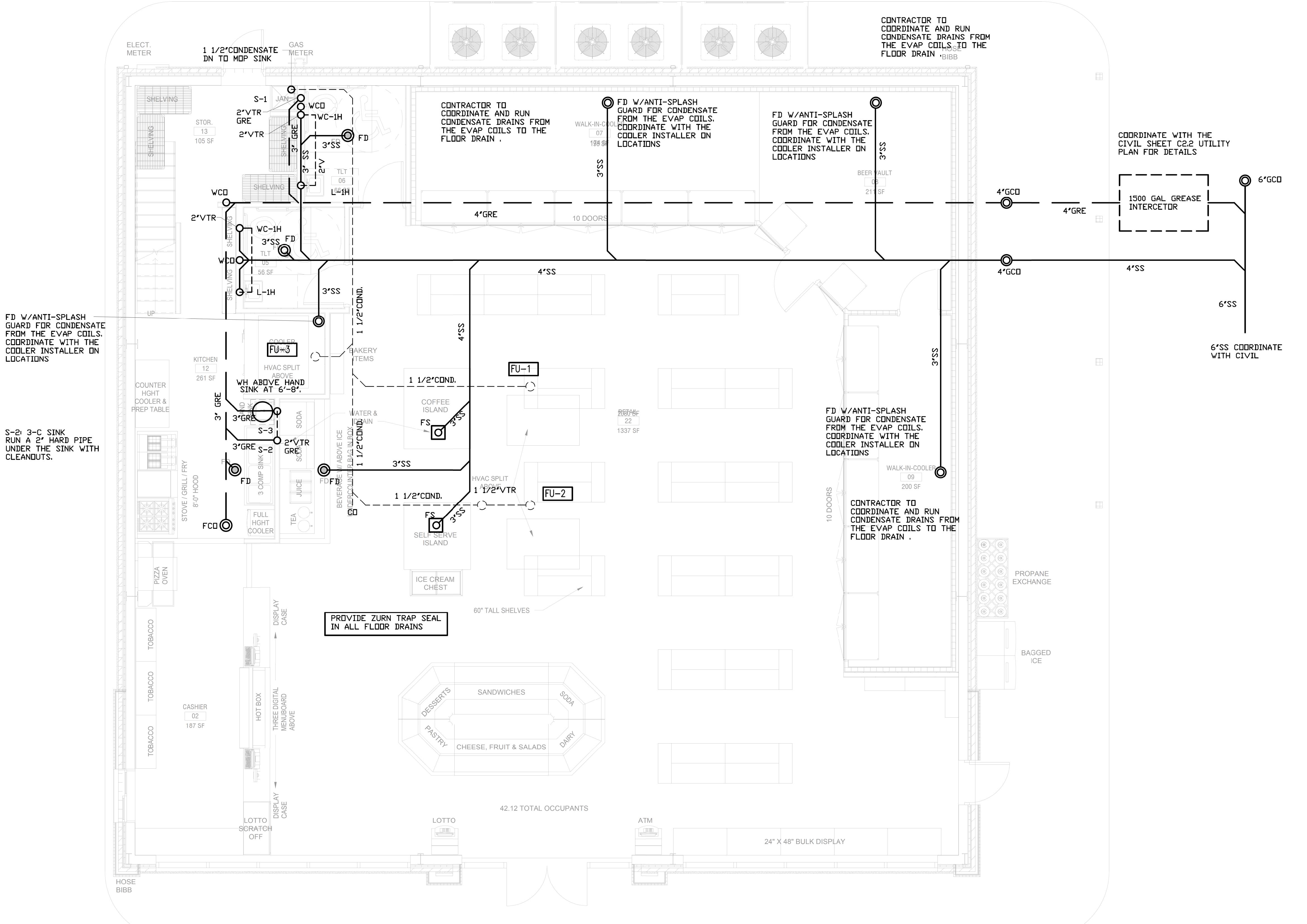
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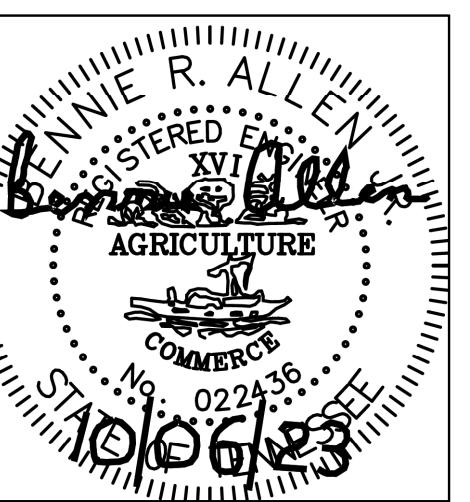
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FIRST FLOOR SANITARY PLAN

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



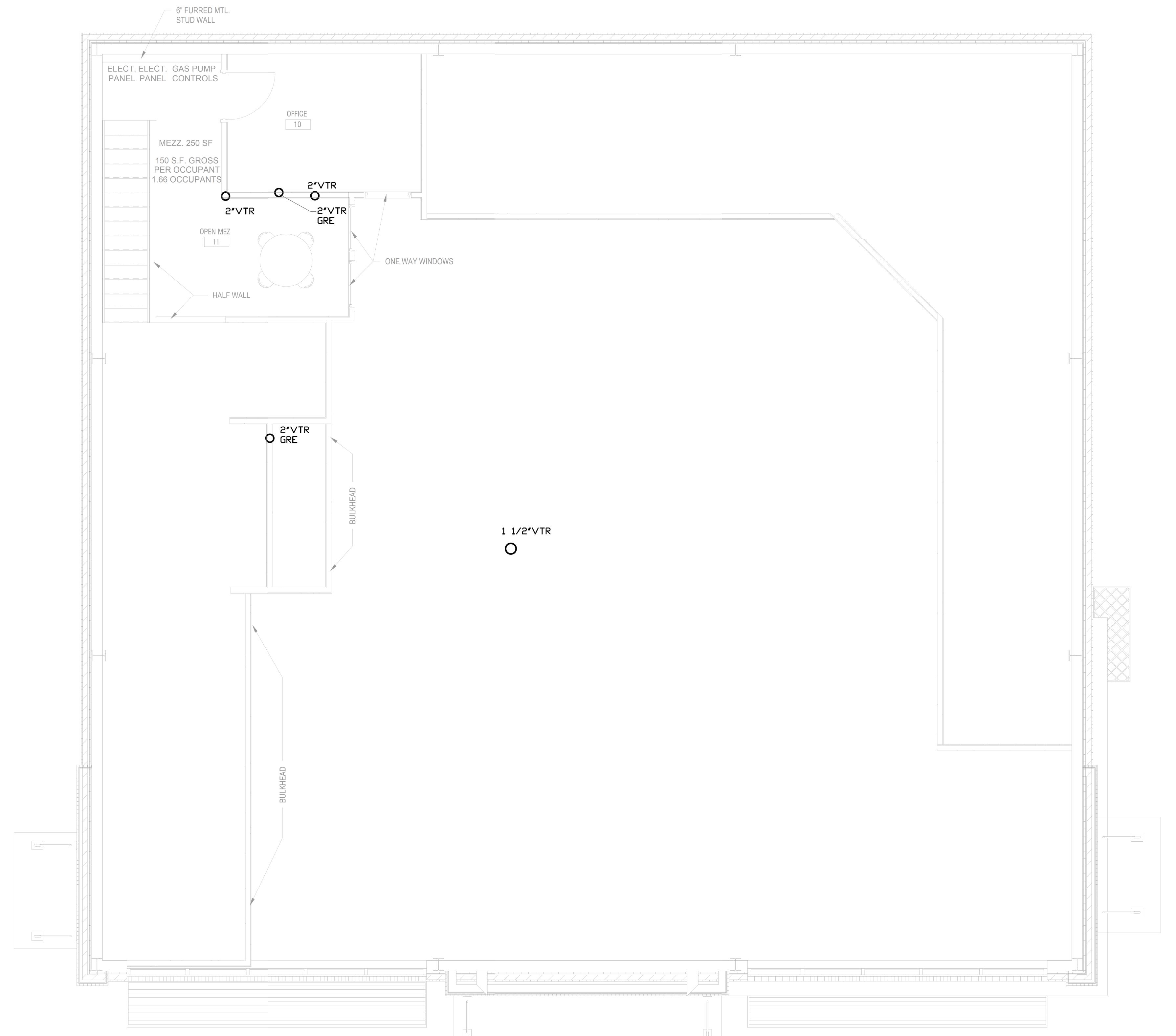
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SECOND FOOR SANITARY PLAN

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

P-1.02



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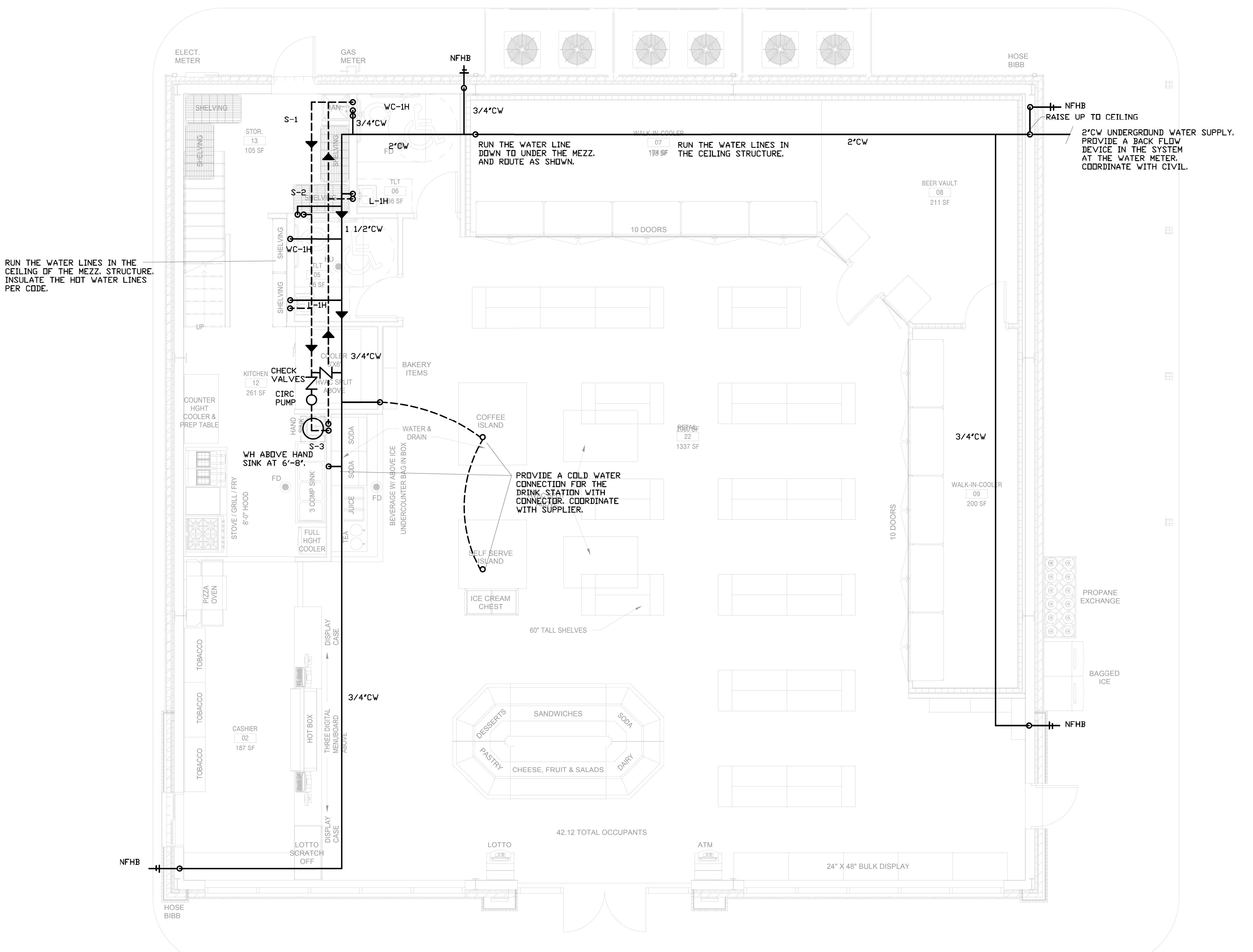
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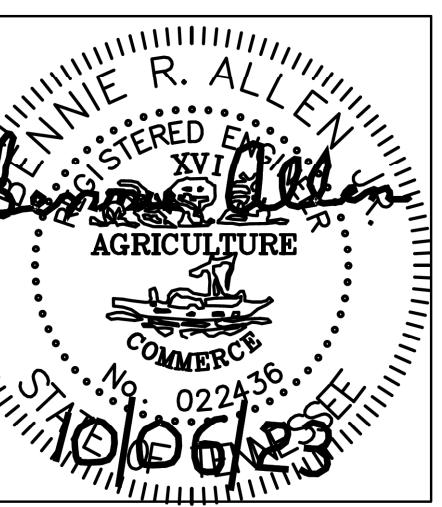
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FIRST FLOOR WATER PLAN

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

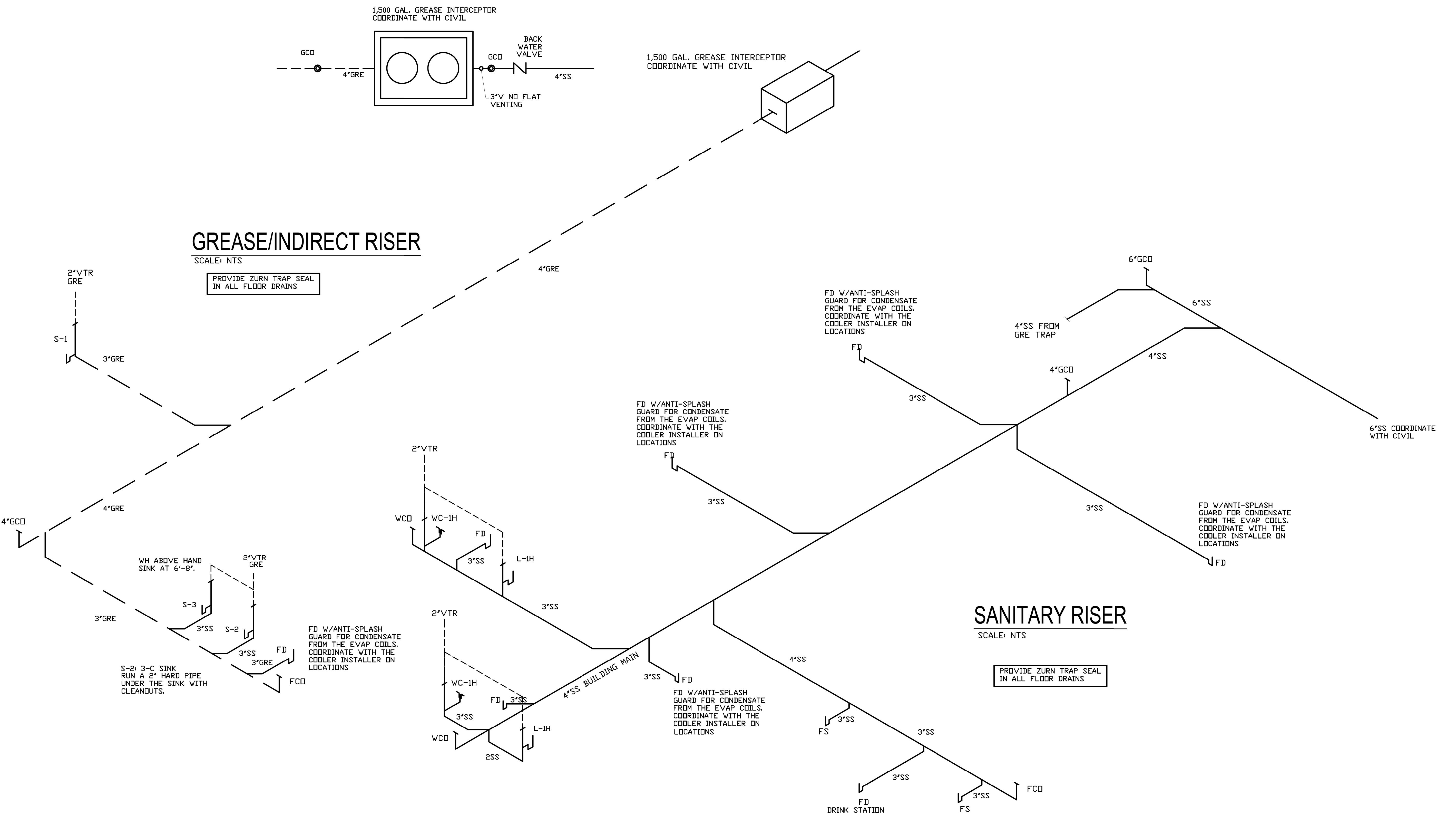


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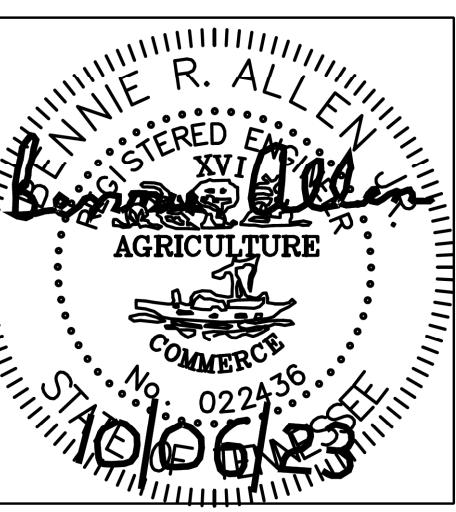
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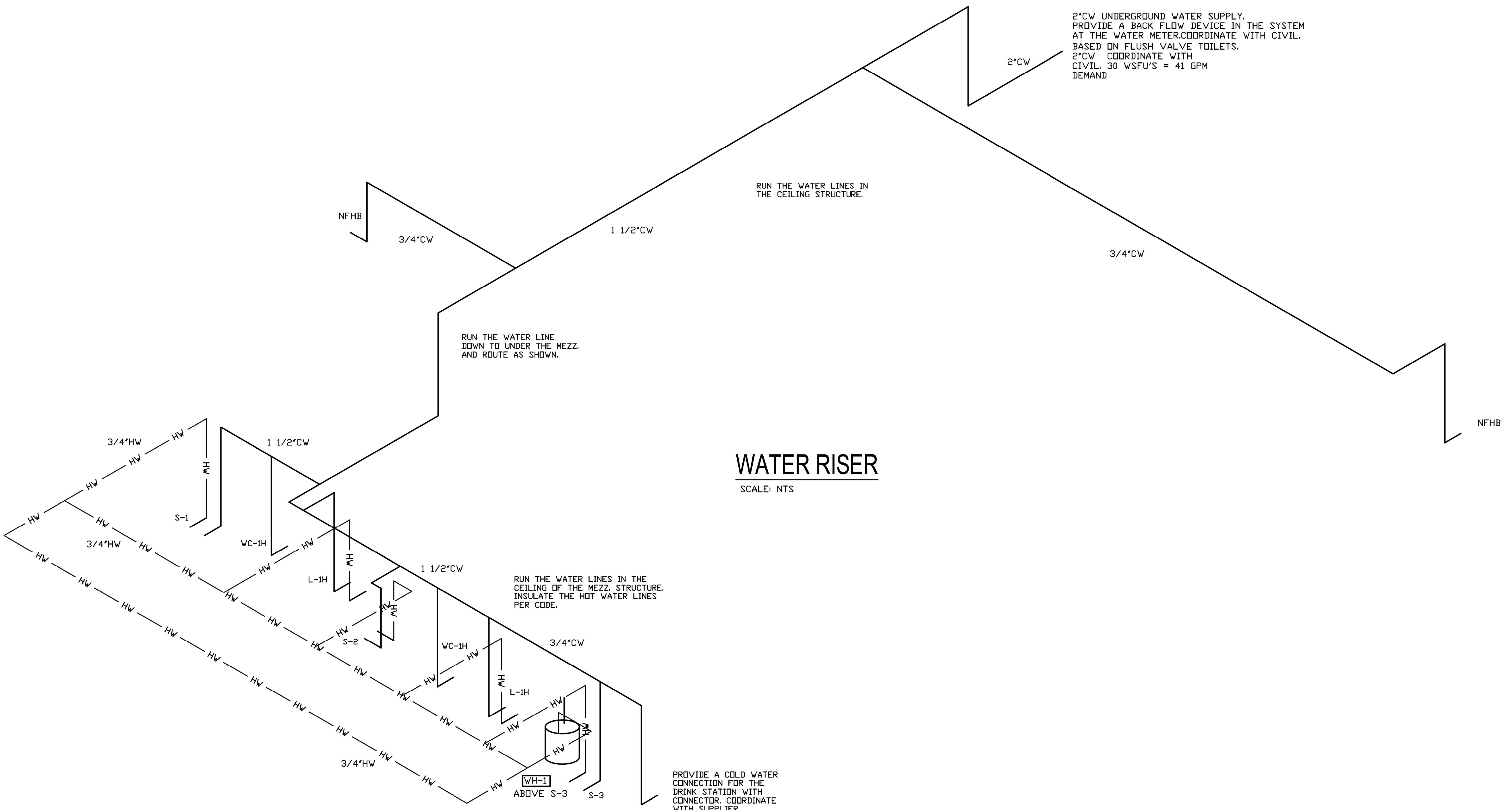


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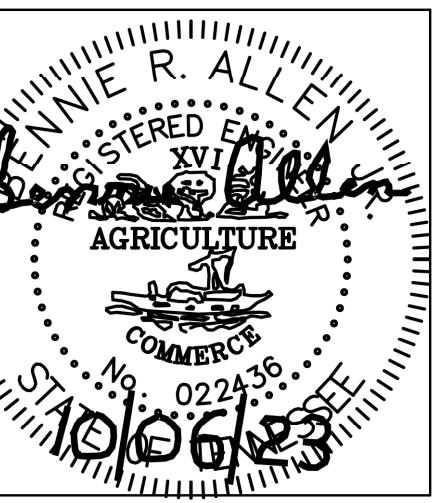
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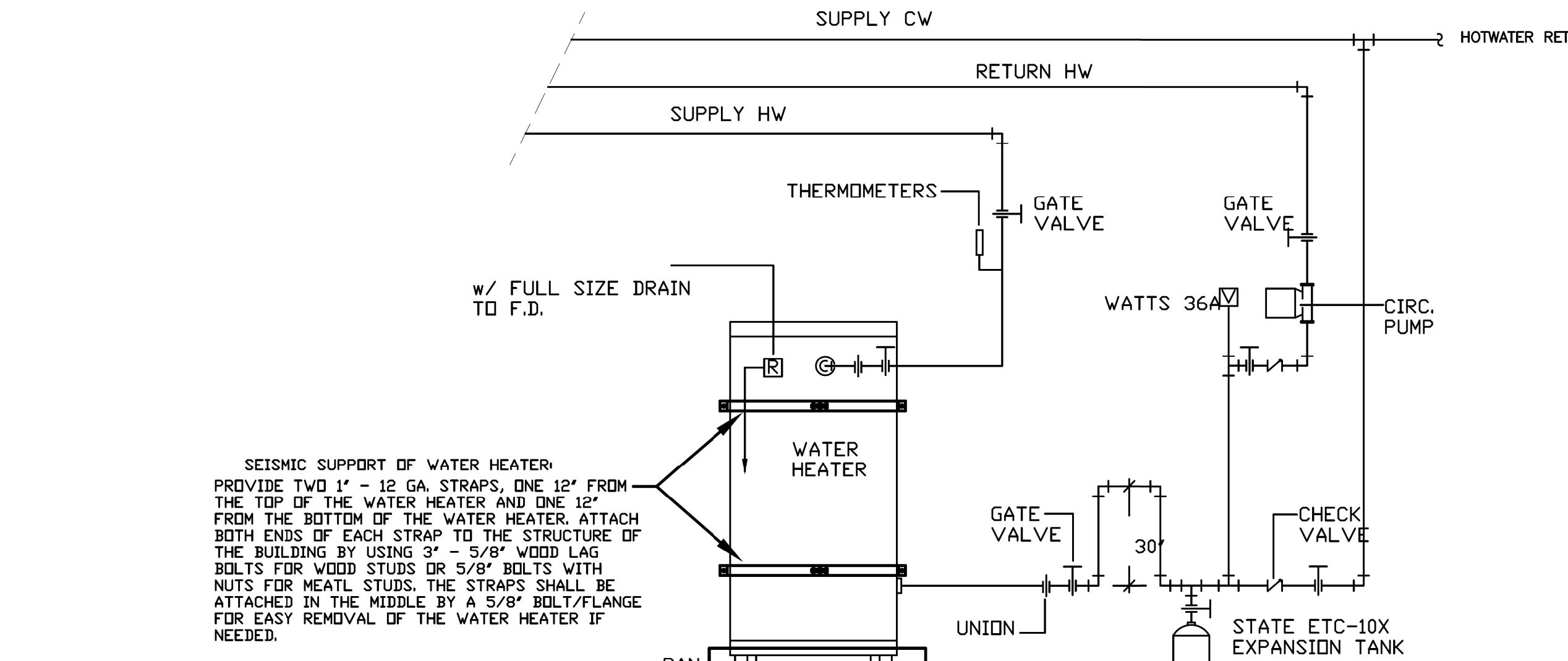
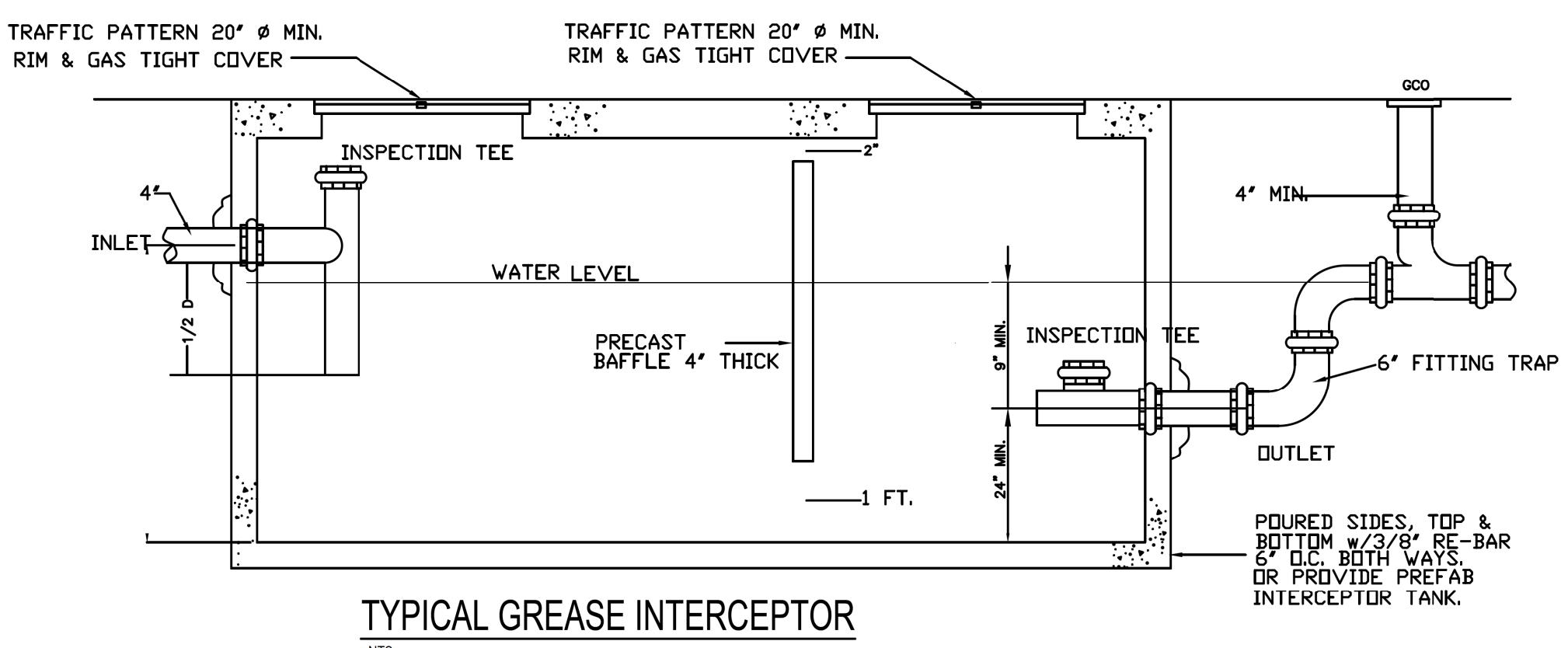
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PLUMBING FIXTURE SCHEDULE						
SYMB	FIXTURE	MANUF.	FAUCET	TRAP	SUPPLY	DESCRIPTION
WH-1	WATER HEATER	STATE	-	-	1"	40 GAL. STATE ELECTRIC WATER HEATER, ANGLE S. W./STOPPS PROVIDE 1" OVERFLOW DRAIN. (2) 4500 WATT ELEMENTS, 208/1/60.
L-1H	LAVATORY	KOHLER	-	P-TRAP 1 1/2"CP	3/8" X 1 1/2" ANGLE S. W./STOPPS	K-2030-0 GREENWICH 20 3/4" X 18 1/4" WALL MTD SINK. VITREOUS CHINA WITH HIDDEN WALL SUPPORT. FAUCET K-7313. PROVIDE WITH WATTS USG-B-M2 3/8" THERMOSTATIC MIXING VALVE.
ICE	ICE	-	-	P-TRAP 1 1/2"CP	1/2" ANGLE S. W./STOPPS	OWNER FURNISHED CONTRACTOR INSTALLED. PROVIDE A 2" HUB DRAIN.
WC-1H	H.C. WATER CLOSET	KOHLER	-	-	3/8" X 1 1/2" ANGLE S. W./STOPPS	HC TANK TYPE FLOOR MTD. ELONGATED, SEAT, LUGS & MOUNTING BOLTS. ADA
S-1	MOP SINK	SWANSTONE	-	P-TRAP 1 1/2"CP	1/2" ANGLE S. W./STOPPS	MS - 24"X24" WHITE POLYPROPYLENE SERVICE SINK, STRAINER, FAUCET (KOHLER TRITON) GOOSENECK FAUCET WITH WRISTBLADE LEVER HANDLES K-7305-SA.
S-2	3-COMP SINK	ELKAY	-	P-TRAP 1 1/2"CP	1/2" ANGLE S. W./STOPPS	RIGIDBILT TRIPLE COMPARTMENT SCULLERY SINK. PROVIDE WITH FAUCET LK943C WALL MOUNT PRE-RINSE & ANGLE SUPPLIES. COORDINATE WITH OWNER FOR FINAL SELECTION.
S-3	2-COMP SINK	KOHLER	-	P-TRAP 1 1/2"CP	1/2" ANGLE S. W./STOPPS	RIGIDBILT TWO COMPARTMENT SCULLERY SINK. PROVIDE WITH FAUCET LK943C WALL MOUNT PRE-RINSE & ANGLE SUPPLIES. COORDINATE WITH OWNER FOR FINAL SELECTION.

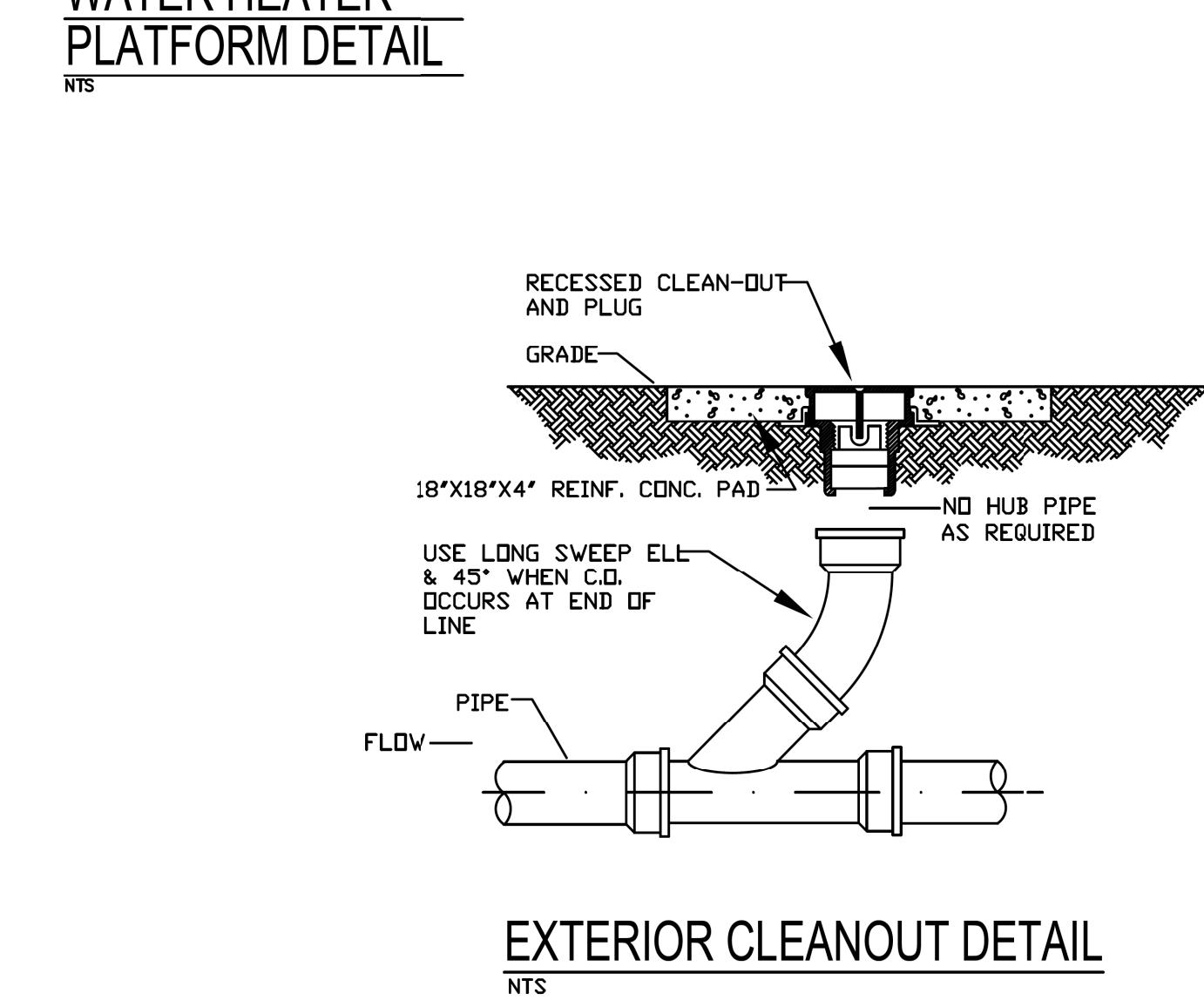
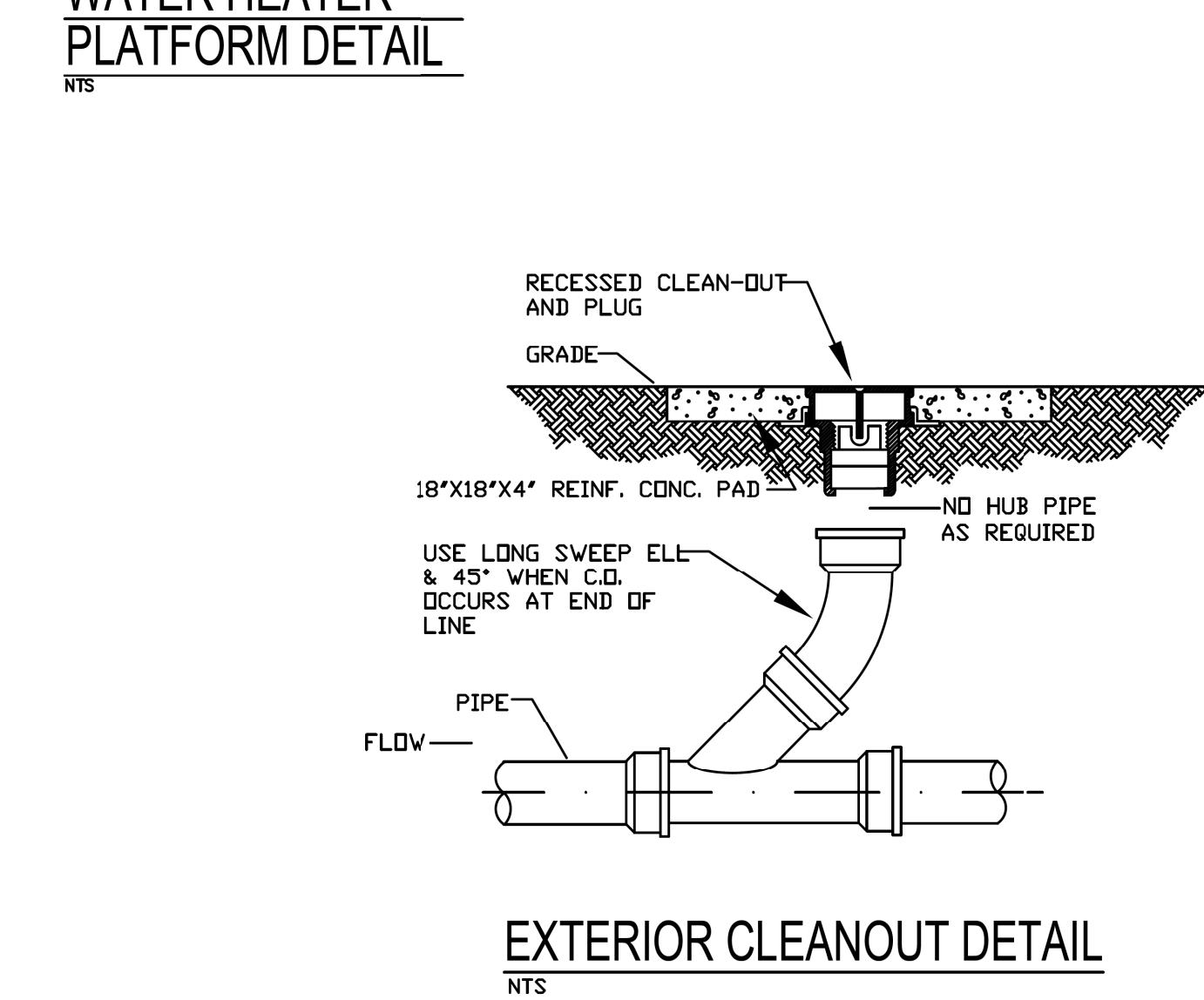
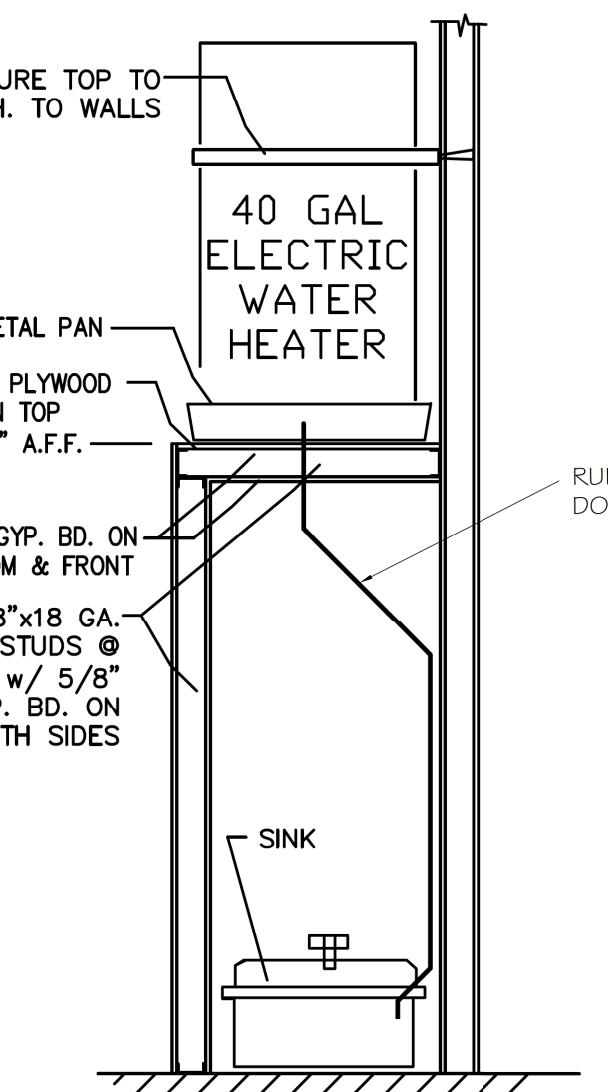
NOTES:
ALL SUPPLIES SHALL BE CHROME PLATED BRASS. PLASTIC SUPPLIES ARE NOT ACCEPTABLE.
PROVIDE ALL BOLTCAPS, STRAINERS, TRAPS, SUPPLIES, ETC. NECESSARY FOR A COMPLETE INSTALLATION.
ALL BRASS SHALL BE AMERICAN MADE & EQUAL TO MODEL SPECIFIED. C.P. PLASTIC IS NOT ACCEPTABLE.
WATER CLOSET SEATS SHALL HAVE STAINLESS STEEL BOLTS. NO EXCEPTIONS.
SUPPLIES FOR WATER CLOSETS SHALL BE MIN. OF 8" A.F.F. COORDINATE W/ FLOOR.

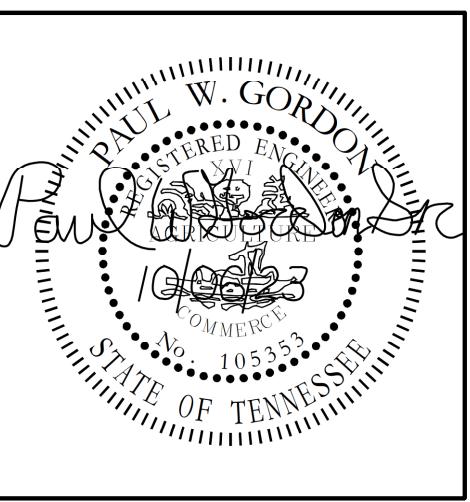
DRAIN, CLEANOUT & HYDRANT SCHEDULE			
SYMBOL	Fixture	MANUF.	DESCRIPTION
NFWH	WALL HYDRANT	WOODFORD	MODEL 65 SERIES NON-FREEZE ANTI-SIPHON WALL HYDRANT WITH BRONZE CASING & INTEGRAL BACKFLOW PREVENTER
FCD	FLOOR CLEANOUT	WADE	#W-6030 CAST IRON CLEANOUT WITH SECURED SCORIATED COVER
WCD	WALL CLEANOUT	WADE	#W-8450-R FOR DRY OR BLOCK WALL CONSTRUCTION OR #V-8450-130-C FOR PLASTER OR TILE CONSTRUCTION
GCD	GRADE CLEANOUT	WADE	#W-6030-Z CAST IRON C.D. WITH LOOSE SET TRACTOR TOP SET IN 12"X12"X6" CONCRETE PAD.
FD	FLOOR DRAIN	WADE	#W-100 CAST IRON FLOOR DRAIN WITH SATIN NICKEL BRONZE STRAINER & #27 SEDIMENT BUCKET.
RPBP-1	BACKFLOW PREVENTER	WILKINS	#909S REDUCED PRESSURE PRINCIPLE TYPE BACKFLOW PREVENTER WITH STRAINER (BUILDING SUPPLY)
RPBP-2	BACKFLOW PREVENTER	WILKINS	#SD-3 STAINLESS STEEL DUAL CHECK WITH ATM, VENT AND DRAIN USE AT ICE MAKER AND OTHER EQUIPMENT REQUIRING WATER CONNECTION.
TRAP SEAL	TRAP SEAL	ZURN	SURE SEAL FOR ALL FLOOR DRAINS UNLESS NOTED
GT	GREASE TRAP	WADE	BELLOW GRADE 1500 GAL. GREASE INTERCEPTOR CONCRETE CONSTRUCTION ONLY

LEGEND	
SYMBOL	DESCRIPTION
C.O.	CLEANOUT
F.C.O.	FLOOR CLEANOUT
G.C.O.	GRADE CLEANOUT
W.C.O.	WALL CLEANOUT
F.D.	FLOOR DRAIN
L-1	PLUMBING FIXTURE
N.F.W.H.	NON FREEZE WALL HYDRANT
R.P.B.P.	BACKFLOW PREVENTER
VTR.	VENT THRU ROOF
H.B.	HOSE BIBB
	BALL VALVE
	CUTOFF VALVE
	CHECK VALVE
	UNION
	160 DEG. HOT WATER FOR LAUNDRY
	VENT
H.W.	HOT WATER SUPPLY
H.W.R.	HOT WATER RETURN
C.W.	COLD WATER SUPPLY



- 1.) WATER HEATER SEE PLUMBING SCHEDULE
- 2.) THERMOMETER - WEISS #7VS 3 1/2.
- 3.) CIRC. PUMP - GRUNDFOS #UP 26-64 BF, 1/12 HP, 110V., 1 PHASE.



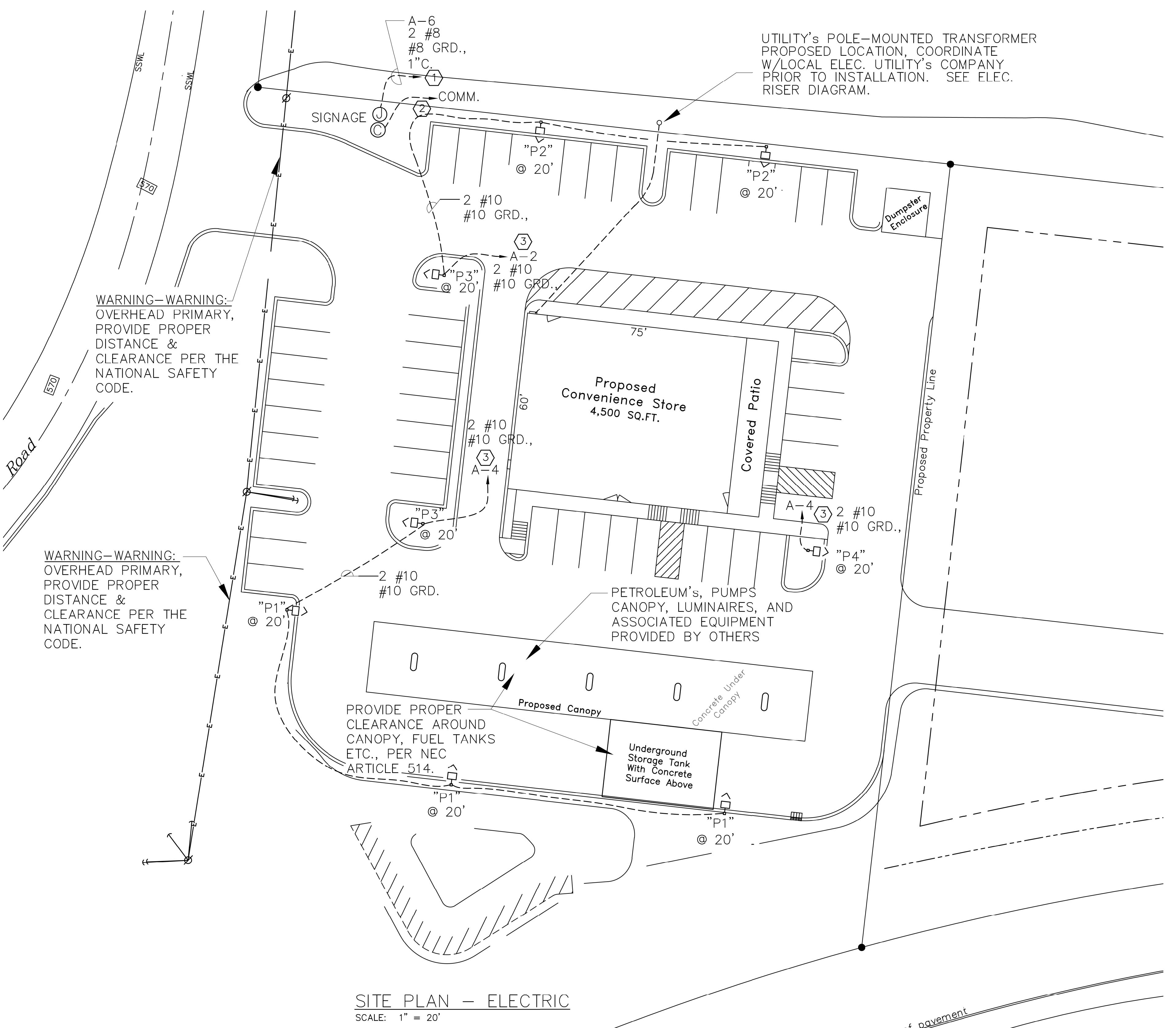


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REFERENCE NOTES:

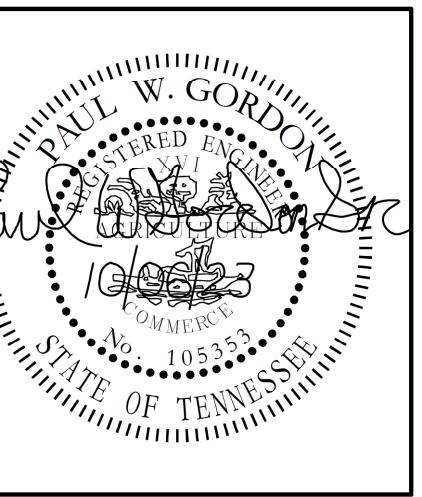
- ① SIGNAGE—PROVIDE 120V, ROUTE CIRCUIT THRU LTC. CONTACTOR. COORDINATE SIGNAGE LOCATION WITH OWNER/ ARCH. PRIOR TO INSTALLATION.
- ② SIGNAGE—DATA/COMM., PROVIDE 2" CONDUIT W/PULL ROPE. ROUTE CONDUIT TO MEZZANINE, ELEC. PNLS. COORDINATE LOCATION WITH OWNER/ ARCH. PRIOR TO INSTALLATION.
- ③ ROUTE LTC. CIRCUIT THROUGH LIGHTING CONTACTOR.

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ELECTRICAL ENGINEER

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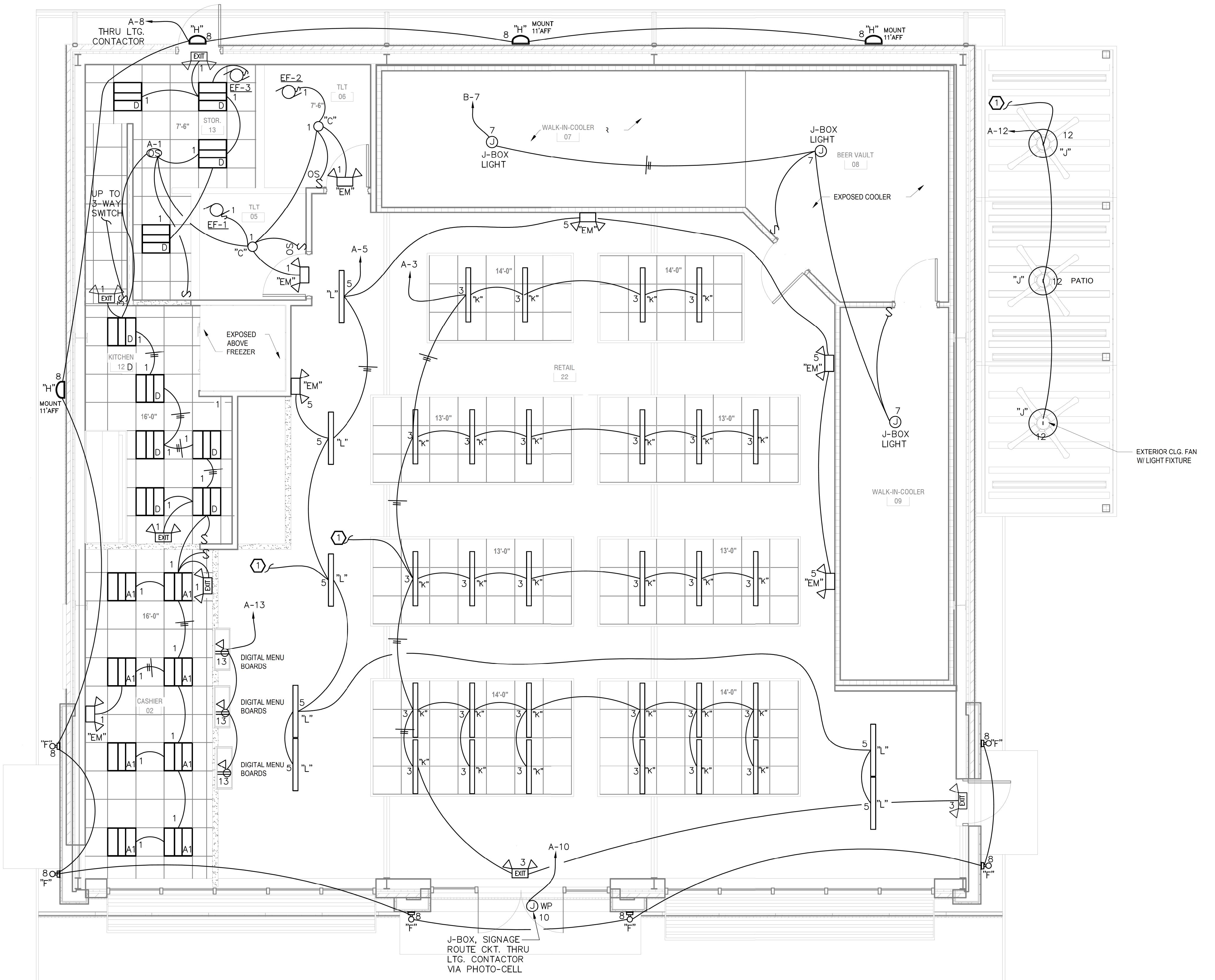


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REFERENCE NOTES:

- ① COORDINATE THE SWITCH LOCATION WITH THE OWNER/ARCH PRIOR TO INSTALLATION.

CEILING PLAN — LIGHTING

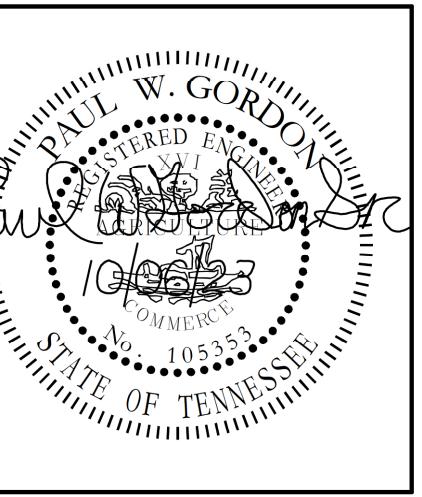
SCALE: 1/4" = 1'

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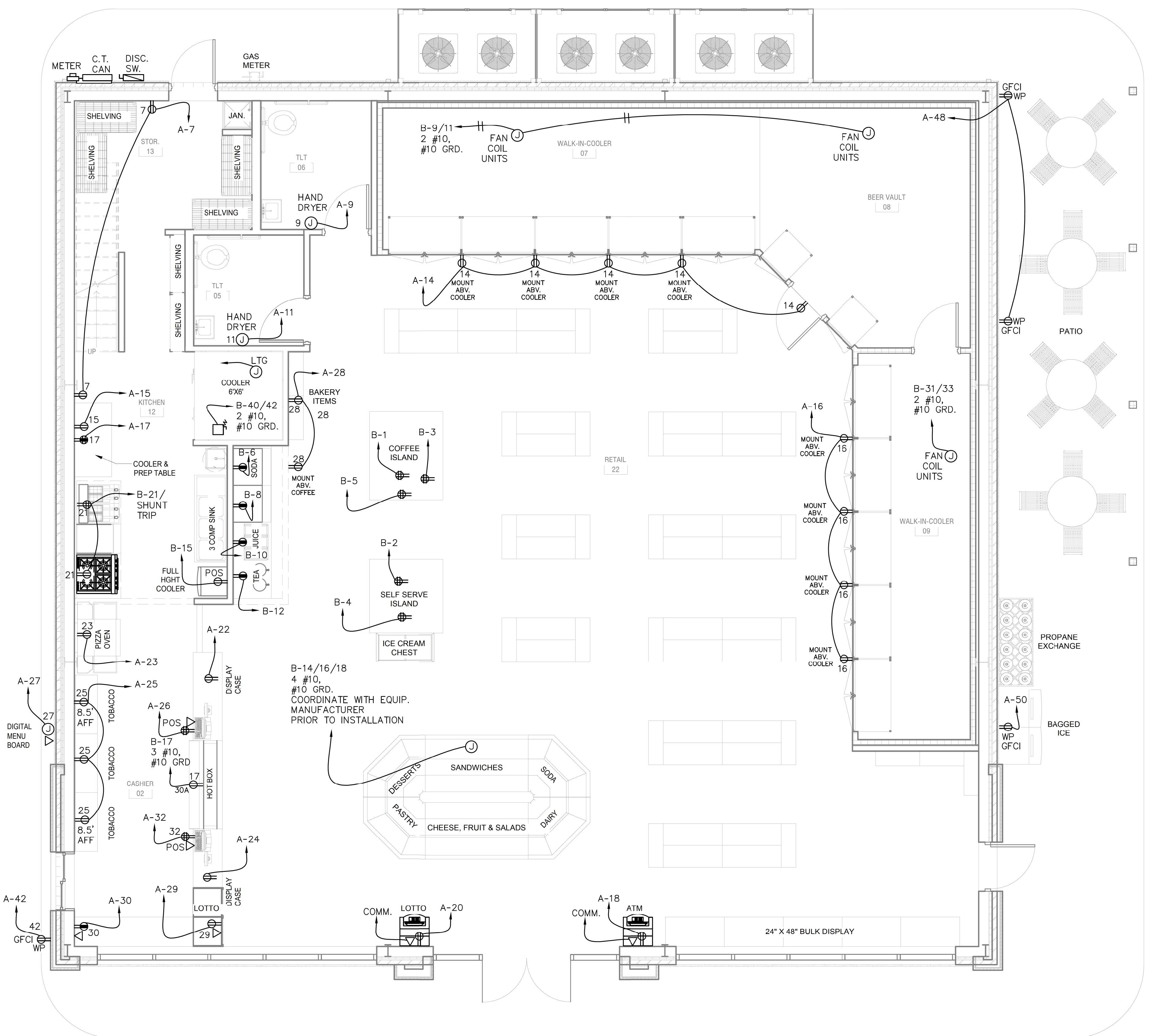


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FLOOR PLAN — POWER
SCALE: 1/4" = 1'

GENERAL NOTE:

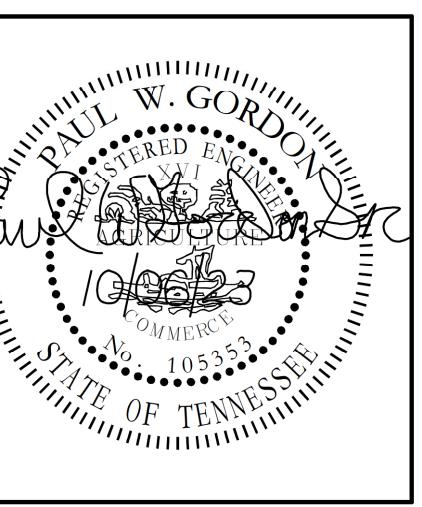
1. CONTRACTOR TO PROVIDE VOLTAGE DROP CALCULATIONS PER THE NEC, FOR ALL CONDUCTORS EXCEEDING 75'.

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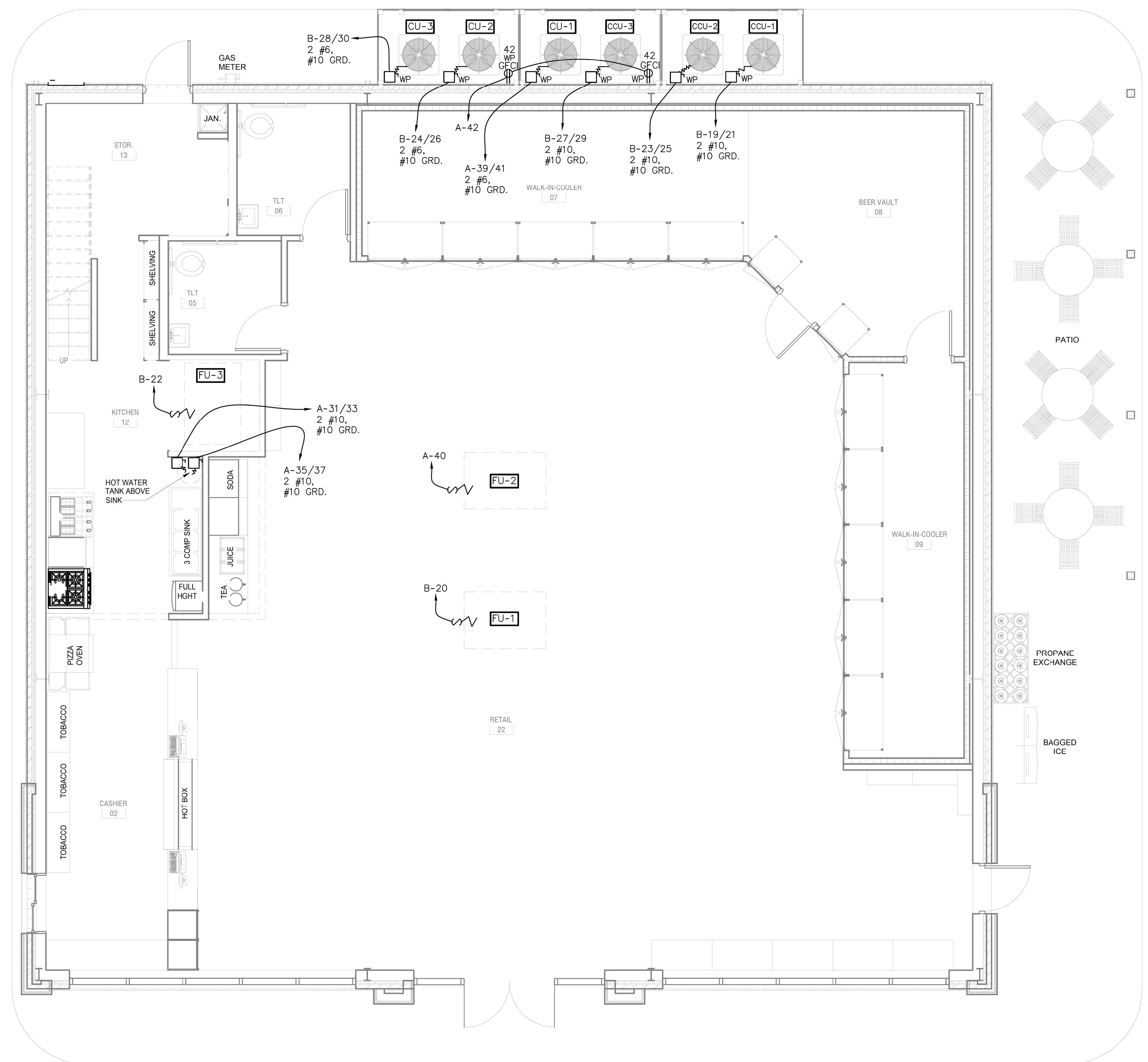


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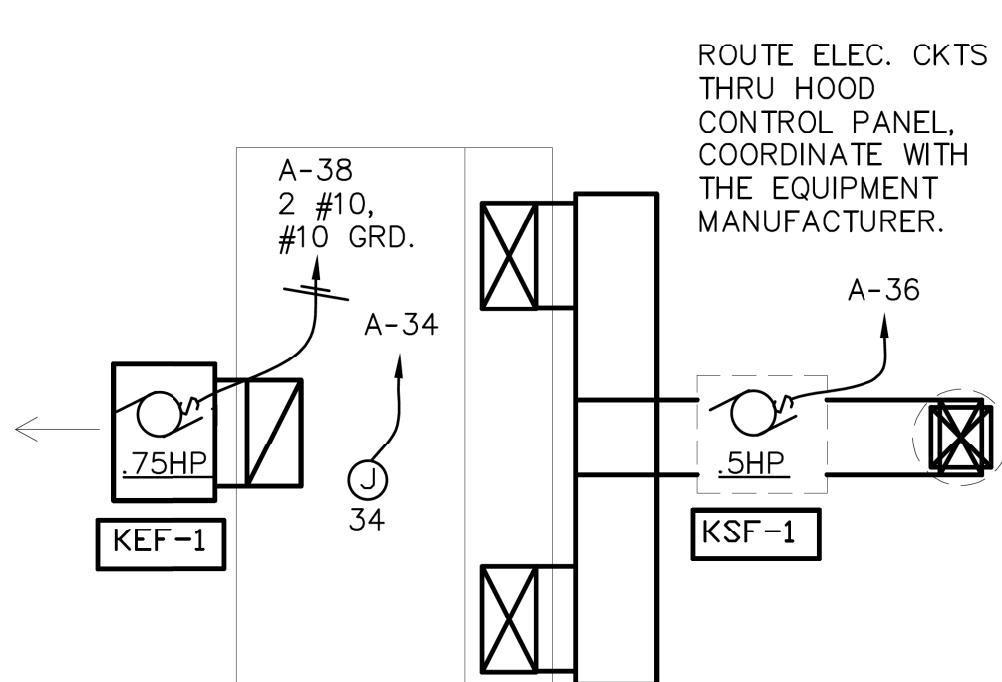
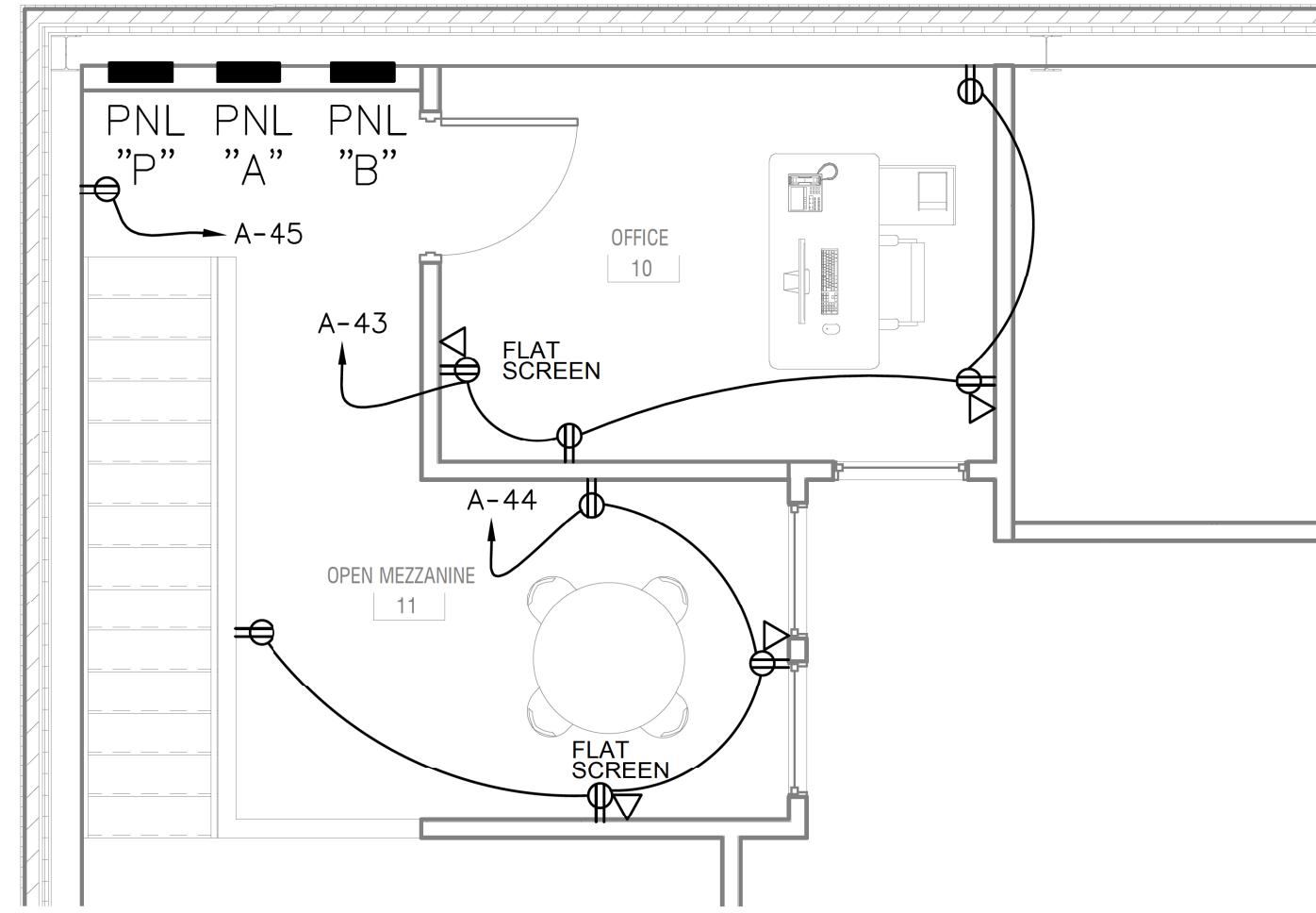
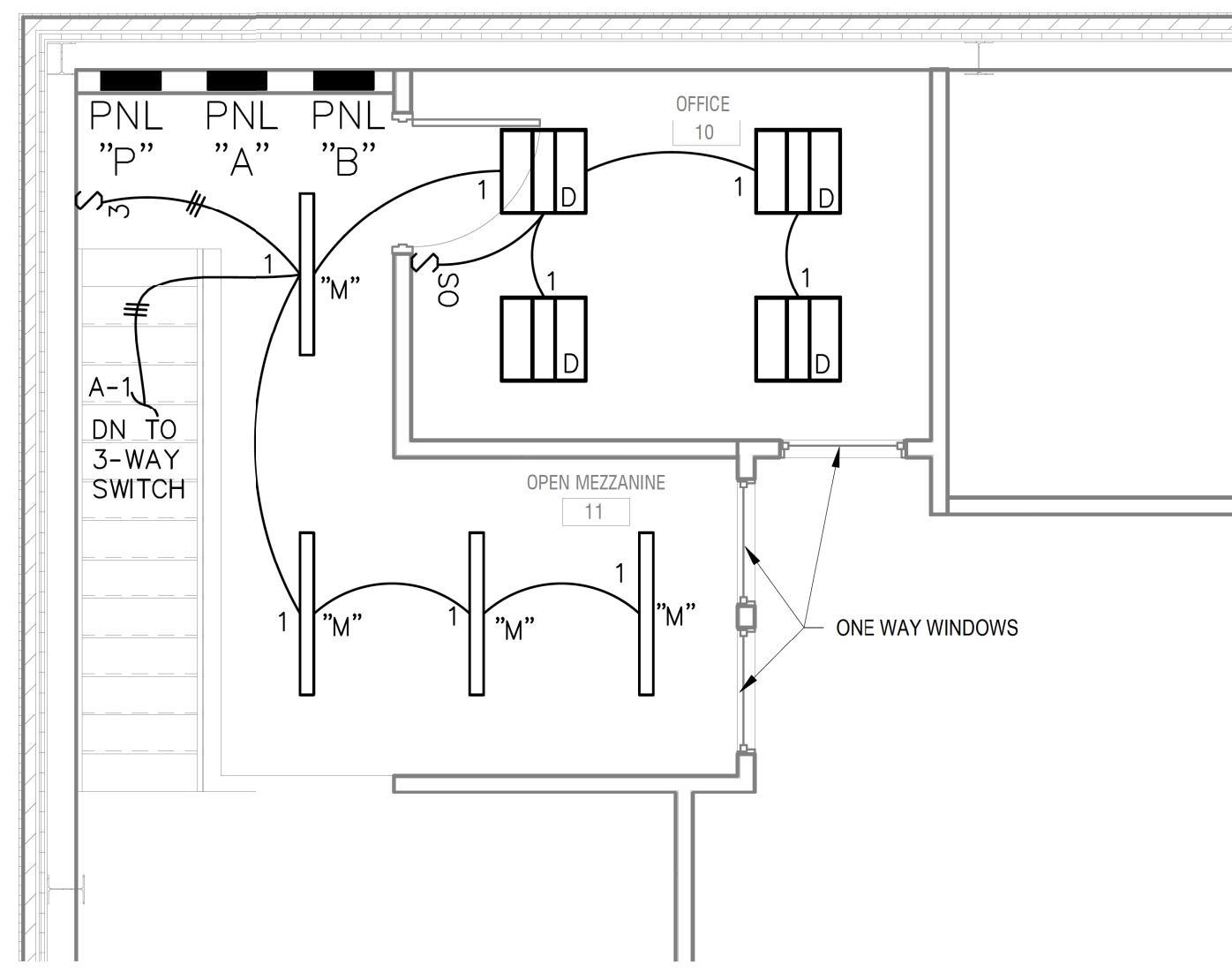
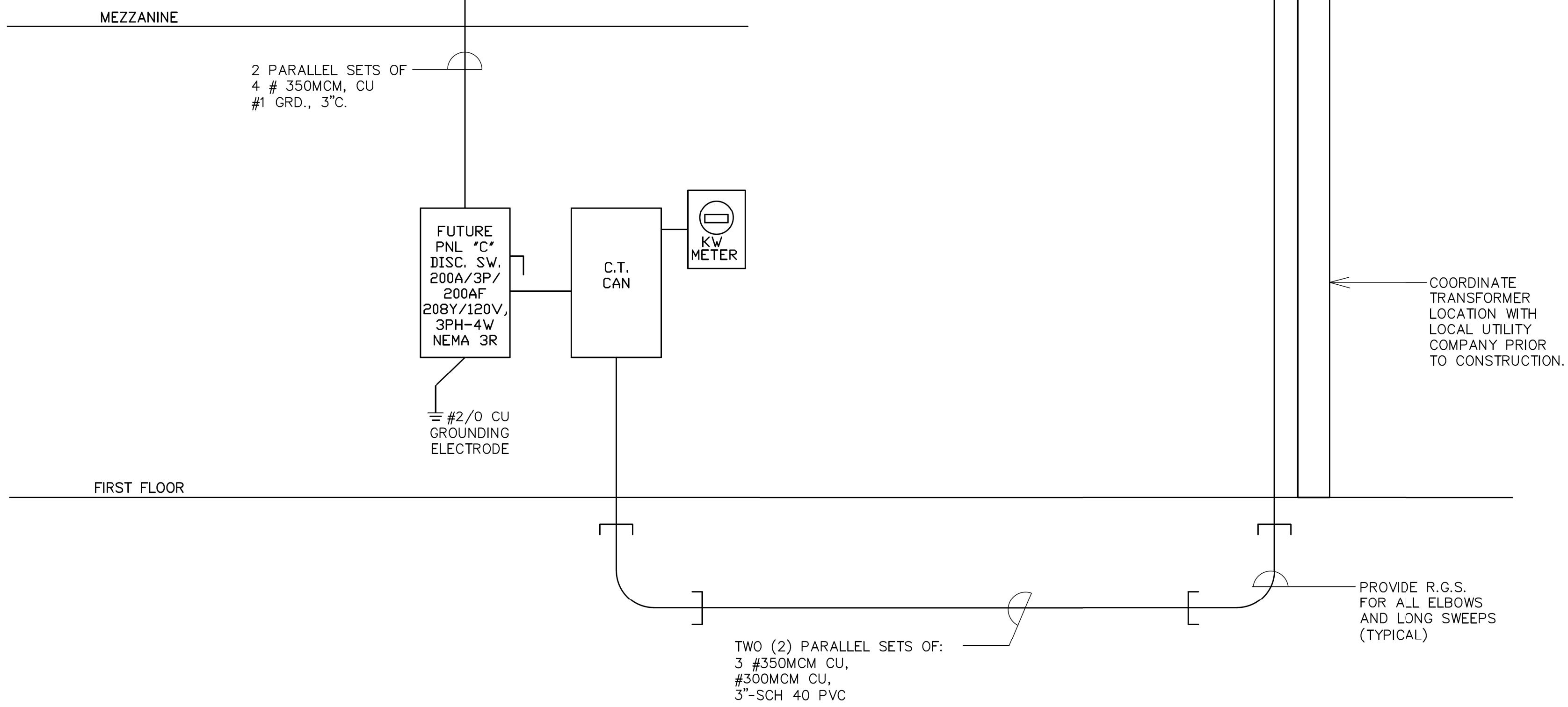
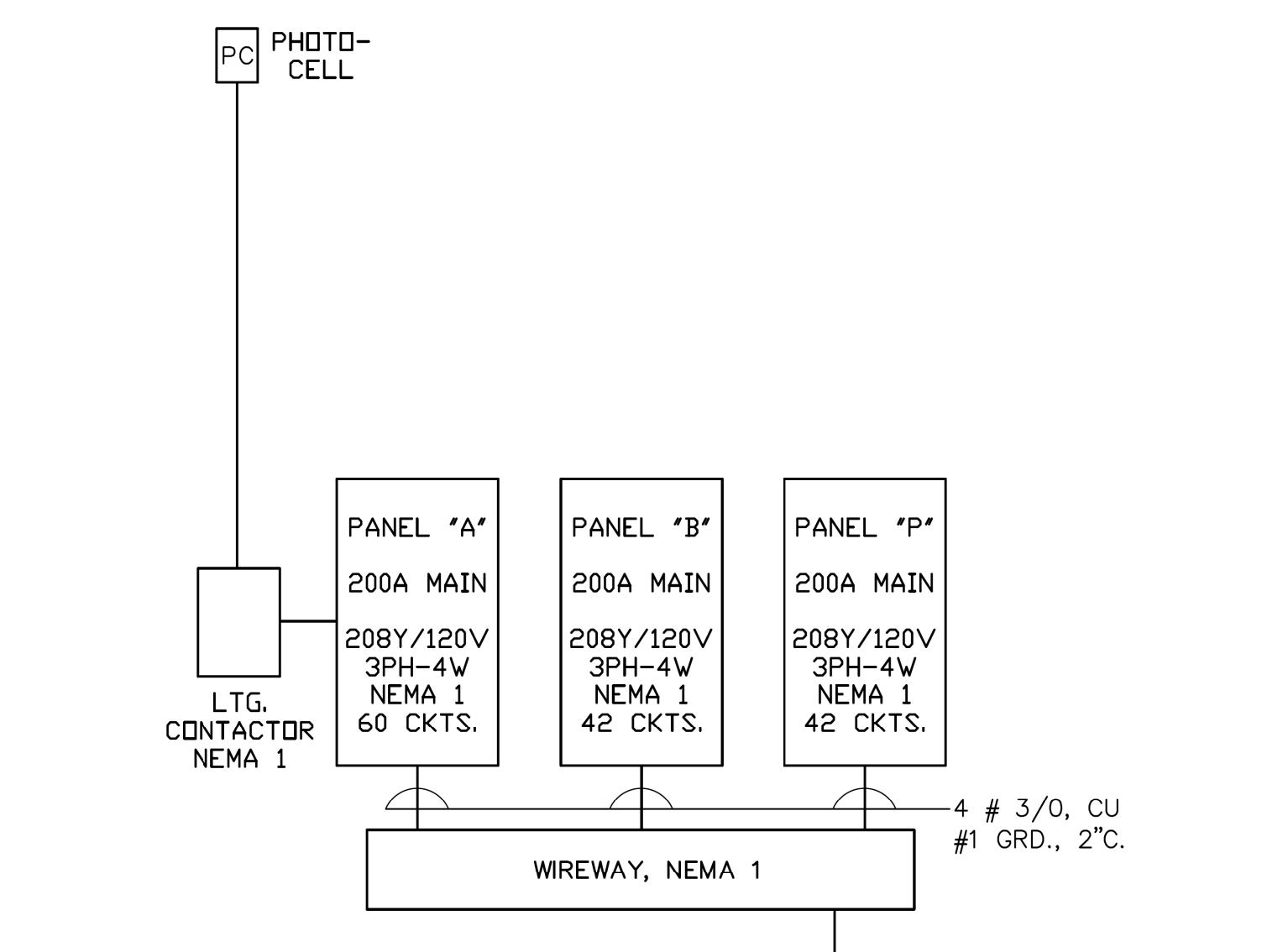
FLOOR PLAN -HVAC/HOT WATER HEATER - ELECTRIC
SCALE: 1/4" = 1'

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GENERAL NOTE:
1. CONNECT VENT-A-HOOD, WIRING SYSTEM PER NATIONAL, STATE, LOCAL CODES AND MANUFACTURER'S REQUIREMENTS.

VENT-A-HOOD: POWER
SCALE: N.T.S.

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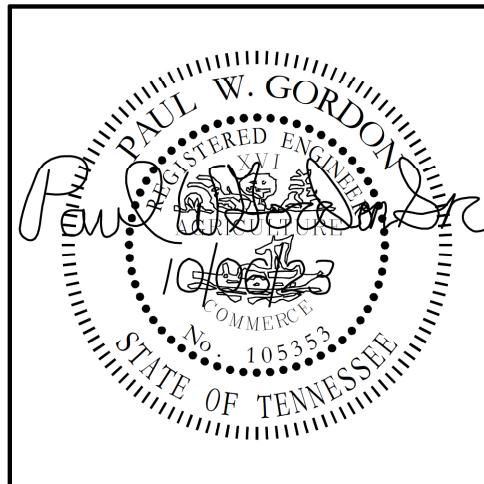
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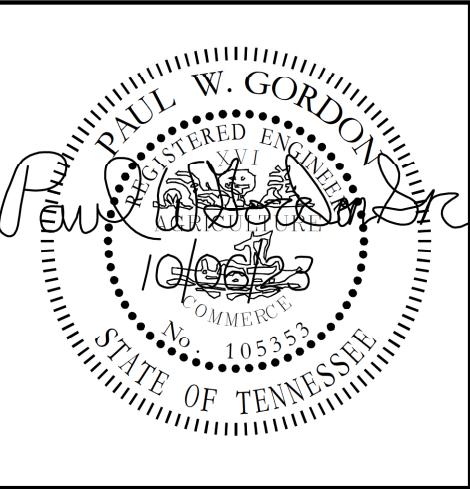
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PANELBOARD "A"										
LOCATION: MEZZANINE				MAIN BKR. <u>150A</u>		TYPE: NEMA 1				
VOLTAGE: 208/120V., 3Ø, 4W.				M.L.O. <input type="checkbox"/>		FEED: GROUND BUS: <input checked="" type="checkbox"/>				
MOUNTING: SURFACE										
LOAD SERVED	CKT	BKR	VA	L1	L2	L3	VA	BKR	CKT	LOAD SERVED
LIGHTING-1ST & 2ND FLOOR	1	20/1	1400	+	560	20/1	2			AREA LIGHT
LIGHTING-RETAIL	3	20/1	1250	+	700	20/1	4			AREA LIGHT
LIGHTING-RETAIL-SUSPENDED	5	20/1	250	+	750	20/1	6			SIGNAGE-ADJ. STREET
RECEPTACLES-KITCHEN	7	20/1	360	+	700	20/1	8			WALLPACK & SCONCES
HAND DRYER - RESTROOM	9	20/1	1750	+	1000	20/1	10	J-BOX, EXTERNAL SIGNAGE		
HAND DRYER - RESTROOM	11	20/1	1750	+	700	20/1	12	FANS/LIGHT - PATIO		
DIGITAL MENU BOARD	13	20/1	600	+	900	20/1	14	RECEPTACLES-ABOVE COOLERS		
COOLER PREP/TABLE - QUAD	15	20/1	800	+	720	20/1	16	RECEPTACLES-ABOVE COOLERS		
COOLER CONDENSING UNITS-CC1	17	20/1	180	+	400	20/1	18	ATM MACHINE		
RECEPTACLE/SHUNT TRIP	19	20/1	ST	+	400	20/1	20	LOTTO		
RECEPTACLE/SHUNT TRIP	21	20/1	360	+	1600	20/1	22	DISPLAY CASE		
PIZZA OVEN	23	20/1	500	+	1600	20/1	24	DISPLAY CASE		
RECEPTACLES-DISPLAY	25	20/1	360	+	400	20/1	26	POS		
DIGITAL MENU BOARD	27	20/1	500	+	700	20/1	28	BAKERY ITEMS		
LOTTO BOX	29	20/1	500	+	500	20/1	30	RECEPTACLE-DRIVE THRU		
HOT WATER HEATER	31	30/	2250	+	400	20/1	32	POS		
HOT WATER HEATER	33	/2	2250	+	700	20/1	34	HOOD LTS		
HOT WATER HEATER	35	30/	2250	+	1200	20/1	36	KSF-1		
HOT WATER HEATER	37	/2	2250	+	1800	25/1	38	KEF-1		
CU-1	39	50/	3640	+	1800	20/1	40	FU-1		
CU-1	41	/2	3640	+	540	20/1	42	RECEPTACLE-EXTERIOR (GFCI)		
RECEPTACLES MEZZANINE	43	20/1	720	+	720	20/1	44	RECEPTACLES MEZZANINE		
RECEPTACLE-PANELBOARD	45	20/1	180	+		20/1	46	SPARE		
SPARE	47	20/1		+	360	20/1	48	RECEPTACLES-PATIO (GFCI)		
SPARE	49	20/1		+	1600	20/1	50	BAGGED ICE		
SPARE	51	20/1		+		20/1	52	SPARE		
SPARE	53	20/1		+		20/1	54	SPARE		
SPARE	55	20/1		+		20/1	56	SPARE		
SPARE	57	20/1		+		20/1	58	SPARE		
SPARE	59	20/1		+		20/1	60	SPARE		
TOTAL				L1	L2	L3	TOTAL	43.2 KVA		
				11,890	16,850	14,510		120 FLA CONN.		

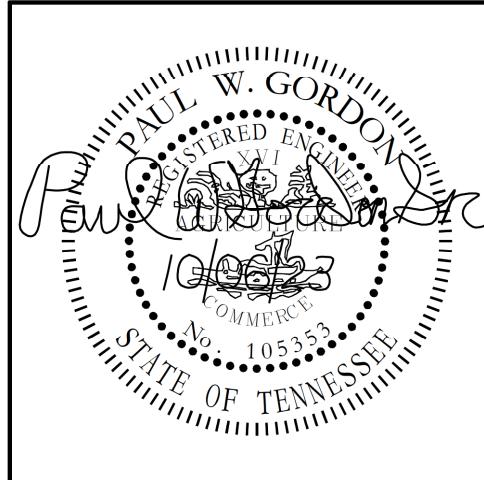
PANELBOARD "B"										
LOCATION: MEZZANINE				MAIN BKR. <u>200A</u>		TYPE: NEMA 1				
VOLTAGE: 208/120V., 3Ø, 4W.				M.L.O. <input type="checkbox"/>		FEED: GROUND BUS: <input checked="" type="checkbox"/>				
MOUNTING: SURFACE										
LOAD SERVED	CKT	BKR	VA	L1	L2	L3	VA	BKR	CKT	LOAD SERVED
COFFEE ISLAND - QUAD	1	20/1	1800	+	1800	20/1	2	SELF SERVE ISLAND - QUAD		
COFFEE ISLAND - QUAD	3	20/1	1800	+	1800	20/1	4	SELF SERVE ISLAND - QUAD		
COFFEE ISLAND - QUAD	5	20/1	1800	+	1200	20/1	6	SODA		
LIGHTING-COOLER	7	20/1	300	+	1200	20/1	8	SODA		
FAN COIL UNITS	9	20/1	1000	+	1200	20/1	10	JUICE		
FAN COIL UNITS	11	/2	1000	+	1200	20/1	12	TEA		
COOLER	13	20/1	1700	+	2000	30/1	14	FLOOR MTD. DISPLAY CASE		
SPARE	15	20/1		+	2000		16	FLOOR MTD. DISPLAY CASE		
HOT BOX	17	30/1	2000	+	2000	3/	18	FLOOR MTD. DISPLAY CASE		
COOLER CONDENSING UNITS-CC1	19	30/	2000	+	1800	20/1	20	FU-2		
COOLER CONDENSING UNITS-CC1	21	/2	2000	+	1800	20/1	22	FU-3		
COOLER CONDENSING UNITS-CC2	23	30/	2000	+	3640	50/	24	CU-2		
COOLER CONDENSING UNITS-CC2	25	/2	2000	+	3640	2/	26	CU-2		
COOLER CONDENSING UNITS-CC3	27	30/	2000	+	2920	35/	28	CU-3		
COOLER CONDENSING UNITS-CC3	29	/2	2000	+	2920	2/	30	CU-3		
FAN COIL UNITS	31	20/1	1000	+		20/1	32	SPARE		
FAN COIL UNITS	33	/2	1000	+		20/1	34	SPARE		
SPARE	35	25/1		+		20/1	36	SPARE		
SPARE	37	20/1		+		20/1	38	SPARE		
SPARE	39	20/1		+	1700	20/	40	WALK-IN COOLER		
SPARE	41	20/1		+	1700	2/	42	WALK-IN COOLER		
TOTAL				L1	L2	L3	TOTAL	60.0 KVA		
				19,240	19,220	21,460		166 FLA CONN.		

PANELBOARD "P"										
LOCATION: MEZZANINE				MAIN BKR. <u>200A</u> W/SHUNT TRIP		TYPE: NEMA 1				
VOLTAGE: 208/120V., 3Ø, 4W.				M.L.O. <input type="checkbox"/>		FEED: GROUND BUS: <input checked="" type="checkbox"/>				
MOUNTING: SURFACE										
LOAD SERVED	CKT	BKR	VA	L1	L2	L3	VA	BKR	CKT	LOAD SERVED
SPACE	1			+				2		SPACE
SPACE	3			+				4		SPACE
SPACE	5			+				6		SPACE
SPACE	7			+				8		SPACE
SPACE	9			+				10		

LIGHT FIXTURE SCHEDULE

Fixture Type	Fixture Description	Manufacturer	Catalog Number	Lamp Type	Fixture Lumens	Fixture Load (VA)	Notes
A1	2X2 CURVED OPAL LENS	LITHONIA	STAK 2X2 500LM 80CRI 40K COL MVOLT	LED	5,000	42.6	
A2	2X2 CURVED OPAL LENS	LITHONIA	STAK 2X2 200LM 80CRI 40K COL MVOLT	LED	2,000	16.8	
B	RECESSED DOWNLIGHT	LITHONIA	LDN6 40/20 LO6AR LSS	LED	2,000	22.5	
C	CYLINDER PENDANT	ABOVE ALL	ITL-06D40-9F	LED	1,830	11.6	COORDINATE MOUNTING HEIGHT WITH ARCHITECT. EMERGENCY LIGHT W/BATTERY
D	2X2 FLAT PANEL	LITHONIA	CPX-2X2-3000LM-80CRI-40K-SWL-120	LED	5,000	22	
F	DIRECT/INDIRECT CYLINDER	ROOK X	RKX-UD-BLK-NF/NF-309-HEX-U/D	LED		25	MOUNT 7.5' AFF, CENTERLINE
G	EXTERIOR WALL SCONCE	WDGE1	WDGE2-LED-P2-30K-90CRI-VW-MVOLT-BATTERY	LED		18	WALLPACK STANDALONE/NLIGHT 10,000 LUMENS
H	EXTERIOR WALL SCONCE	WDGE2	WDGE3-LED-P3-30K-90-CRI-VW-MVOLT-BATTERY	LED		18	WALLPACK STANDALONE/NLIGHT 10,000 LUMENS
J	EXTERIOR FAN W/LIGHT	KICHLER	310075OZ	LED		57	
K	LINEAR	LITHONIA	LSIX-4FT-5000LM-80CRI-40K-MVOLT	LED	5,000	43	RECESSED IN THE GRID OF THE CLOUDS
L	LINEAR	LITHONIA	GRD-ID1000LMF 20/80-120-80-40K	LED	1000LMF	33	20%UP AND 80% DOWN, SUSPENDED AT 13' AFF, FROM THE 16' CEILING ABOVE
M	CHANNEL STRIP WITH LENS	LITHONIA	4' CHANNEL STRIP WITH LENS SUSPENDED W/CHAIN	LED		25	CHANNEL STRIP SUSPENDED BY CHAIN IN MEZZANINE
P1	AREA LUMINAIRE, 20' TOTAL HEIGHT INCLUDING 2' CONCRETE BASE	LITHONIA	DSX1-LED-P5-40K-80CRI-TFTM-EGS	LED	14,582	140	D-SERIES, SIZE 1 LUMINAIRE P5, FORWARD THROW EXTERNAL GLARE SHIELD, SQUARE STRAIGHT STEEL POLE
P2	AREA LUMINAIRE, 20' TOTAL HEIGHT INCLUDING 2' CONCRETE BASE	LITHONIA	DSX1-LED-P5-40K-80CRI-BLC4-EGS	LED	11,183	140	D-SERIES, SIZE 1 LUMINAIRE P5, TYPE 4 EXTREME BACKLIGHT CONTROL EXTERNAL GLARE SHIELD, SQUARE STRAIGHT STEEL POLE
P3	AREA LUMINAIRE, 20' TOTAL HEIGHT INCLUDING 2' CONCRETE BASE	LITHONIA	DSX1-LED-P5-40K-80CRI-TFTM	LED	16,531	140	D-SERIES, SIZE 1 LUMINAIRE P5, FORWARD THROW SQUARE STRAIGHT STEEL POLE
P4	AREA LUMINAIRE, 20' TOTAL HEIGHT INCLUDING 2' CONCRETE BASE	LITHONIA	DSX1-LED-P5-40K-80CRI-T2M	LED	14,582	140	D-SERIES, SIZE 1 LUMINAIRE P5, TYPE 2 MEDIUM SQUARE STRAIGHT STEEL POLE
E	EXIT	LITHONIA	LHQM-LED-R-HO-M6	LED		3	COMBINATION EXIT/EGRESS, PROVIDE REMOTE BATTERY FOR FIXTURE "ER"
EM	EMERGENCY	LITHONIA	ELM2LED-SD	LED		2	
ER	REMOTE	LITHONIA	ERE-W-T-SQ-WP	LED		2	PROVIDE DUAL HEADS FOR EXTERIOR EMERGENCY EGRESS, COORDINATE COLOR WITH ARCHITECT.

NOTE: ALL LIGHTING PACKAGE PRICING AND PROCUREMENT, PLEASE CONTACT:
ELAINE MORRIS AT DESIGNLIGHT,
615-329-6700, elaine@designlight.net

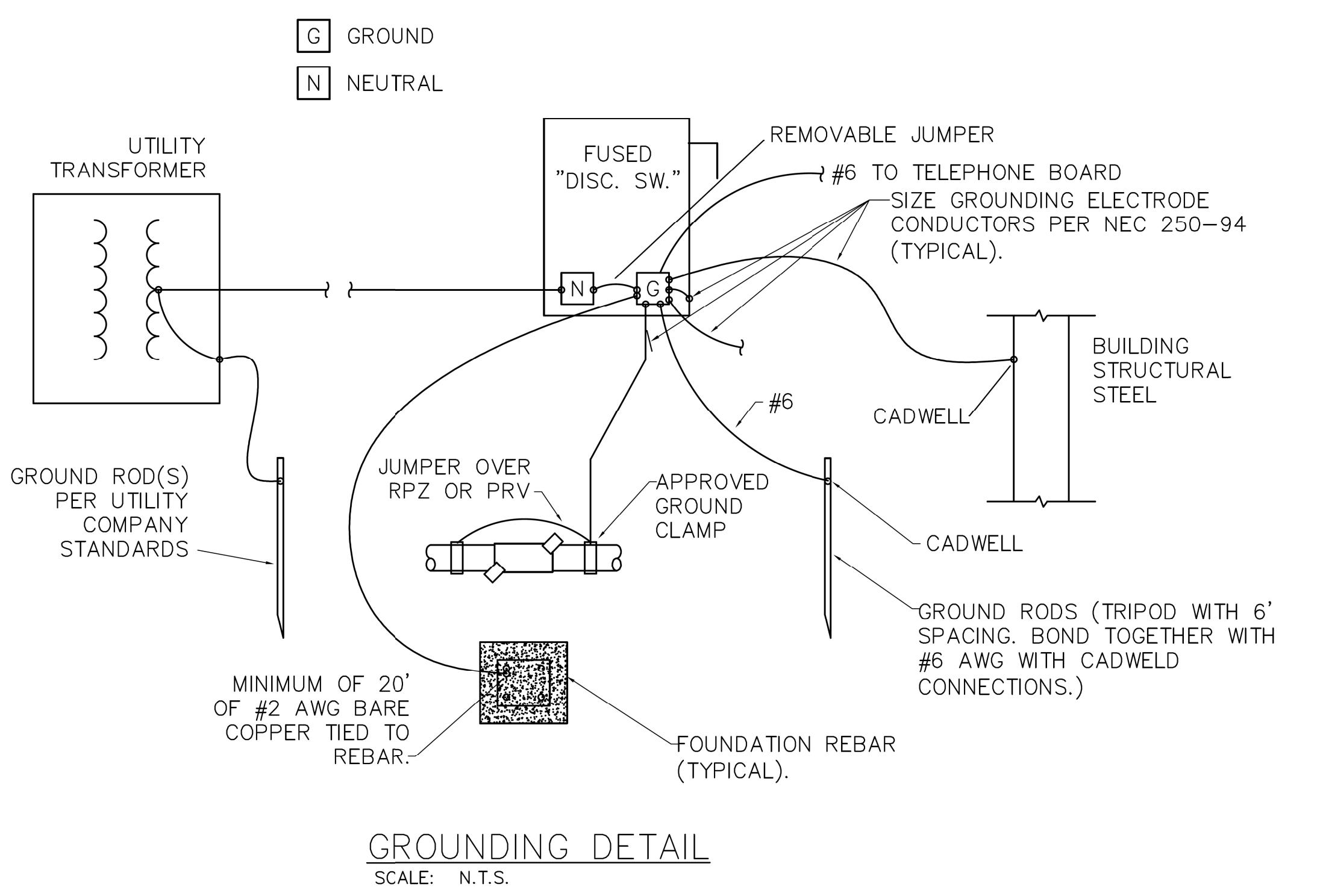


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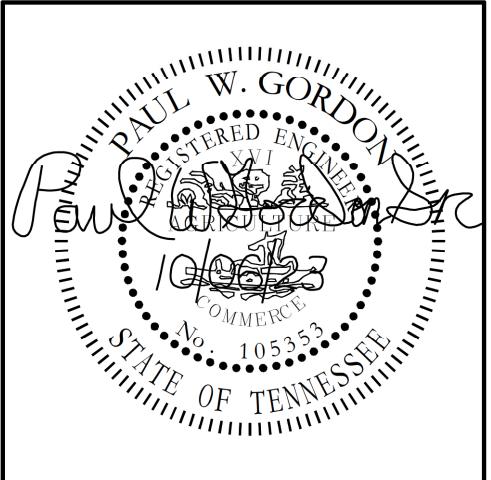


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ELECTRICAL SPECIFICATIONS

SCOPE

INCLUDES THE FURNISHING OF ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, ETC., REQUIRED FOR THE COMPLETE INSTALLATION OF ELECTRICAL SYSTEMS TN, AS OUTLINED IN THESE SPECIFICATIONS AND SHOWN ON THE DRAWINGS.

THE WORK SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, LABOR AND MATERIAL FOR THE FOLLOWING:

1. NEW PANELBOARD.
2. CONDUIT RACEWAY FOR POWER FEEDERS.
3. SECONDARY DISTRIBUTION FEEDERS.
4. BRANCH CIRCUITS IN CONDUIT RACEWAY.
5. ELECTRICAL BOXES AND FITTINGS.
6. WIRING DEVICES, INCLUDING CONVENIENCE AND SPECIAL OUTLETS.
7. CIRCUIT AND MOTOR DISCONNECTS.
8. OVERCURRENT PROTECTIVE DEVICES.
9. SUPPORTING DEVICES.
10. PANELBOARDS.
11. GROUNDING.
12. LIGHTING FIXTURES AND LAMPS.
13. EXTERIOR BUILDING LIGHTING.
14. EXIT SIGNS AND EMERGENCY LIGHTING.
15. WIRING FOR HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT.
16. SPECIAL PURPOSE OUTLETS.
17. IDENTIFICATION OF ELECTRICAL EQUIPMENT.

WORK BY OTHERS

THE FOLLOWING WORK RELATED TO WORK WILL BE PROVIDED BY OTHERS:

1. ALL HEATING, VENTILATING AND AIR CONDITIONING WORK FOR THE PROJECT WILL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR.
2. THE LOCAL UTILITY WILL FURNISH AND INSTALL 1-PHASE SERVICE TRANSFORMERS TO SERVE THE FACILITY.

CODES AND PERMITS

ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE, AND THE LATEST EDITION OF ALL LOCAL OR STATE CODES, LAWS, AND ORDINANCES, AND THE REQUIREMENTS OF THE LOCAL ELECTRIC UTILITY.

THIS CONTRACTOR SHALL APPLY FOR, OBTAIN, AND PAY FOR ALL PERMITS REQUIRED, AT THE CONCLUSION OF THE INSTALLATION, HE SHALL SECURE A CERTIFICATE OF INSPECTION, PROPERLY SIGNED BY THE CONTROLLING BUILDING DEPARTMENT, WHICH SHALL STATE THAT ALL RULES HAVE BEEN COMPLIED WITH AND THAT THE WORK IS SATISFACTORY.

MATERIAL AND EQUIPMENT

ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND OF THE QUALITY SPECIFIED.

MATERIAL OR EQUIPMENT THAT HAS BEEN STORED OUTDOORS UNPROTECTED FOR LONG PERIODS OF TIME OR OTHERWISE DAMAGED IS NOT ACCEPTABLE AS NEW MATERIAL.

APPARATUS AND MATERIALS USED IN THIS WORK WHICH ARE SUBJECT TO APPROVAL OF UNDERWRITERS LABORATORIES (UL) SHALL BEAR THE UL LABEL, OR BE UNDERWRITERS LISTED.

PRIOR APPROVAL OF EQUIPMENT

ELECTRICAL EQUIPMENT SHALL BE FURNISHED AS SPECIFIED; HOWEVER, ALTERNATES TO THE SPECIFIED EQUIPMENT WILL BE ACCEPTED, IF A PRODUCT IS TO BE CONSIDERED AS AN EQUAL TO THE PRODUCTS SPECIFIED HEREIN AND ON THE DRAWINGS, MANUFACTURERS PRODUCT INFORMATION SHALL BE SUBMITTED TO THE ENGINEER THRU THE ARCHITECT FOR REVIEW TEN

(10) DAYS PRIOR TO BIDDING. SUBSTITUTION PRODUCTS SUBMITTED AFTER THE TEN (10) DAY DEADLINE OR AFTER THE BIDDING PROCESS WILL NOT BE CONSIDERED.

ACCURACY OF DATA

DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATIONS OF OUTLETS, CONDUITS, SWITCHES, FIXTURES, ETC. INSTALL ALL WORK AS NEARLY AS POSSIBLE IN THE LOCATIONS SHOWN WITH MINOR ADJUSTMENTS TO AVOID INTERFERENCES WITH STRUCTURE OR THE WORK OF OTHER TRADES. COORDINATE THE EXACT LOCATIONS WITH THE OWNER AND/OR ARCHITECT.

MODIFICATION TO EXISTING FACILITY

MAKE MODIFICATION AND ADDITIONS TO EXISTING FACILITY AS SHOWN ON THE DRAWINGS. VERIFY ALL EXISTING CONDITIONS BY SITE SURVEY.

COORDINATION

THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER SUBCONTRACTORS ON THE JOB AND ALSO WITH THAT OF THE OWNER IN ORDER THAT THERE BE NO DELAY IN THE PROPER INSTALLATION AND COMPLETION OF THE SEVERAL PARTS OF THE WORK.

THIS CONTRACTOR SHALL USE EVERY PRECAUTION TO PROTECT THE WORK OF OTHERS, AND HE WILL BE HELD RESPONSIBLE FOR ALL DAMAGE DONE BY HIS WORKERS TO THE WORK OF OTHER TRADES. HE SHALL ALSO PROTECT HIS WORK FROM DANGER OF BREAKAGE, DIRT, FOREIGN MATERIALS, ETC., AND SHALL REPLACE ALL WORK SO DAMAGED.

MANUFACTURER'S RECOMMENDATIONS

UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST RECOMMENDATION OF THE MANUFACTURER.

CUTTING AND PATCHING

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR PLACEMENT OF HIS WORK AND SHALL EMPLOY WORKERS SKILLED IN THE TRADES REQUIRED. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLEEVES AND FIRE CAULKING WHERE PENETRATIONS ARE MADE THROUGH RATED FLOORS OR WALLS.

ELECTRICAL SYSTEM CHARACTERISTICS

THE SECONDARY ELECTRICAL WIRING SYSTEM FOR THE BUILDING SHALL BE 208Y/120 VOLTS, 3-PHASE, 4-WIRE, SOLID NEUTRAL GROUNDED.

PROTECTION OF FLOORS

FLOORS SHALL BE PROTECTED WHERE CUTTING AND THREADING OPERATIONS TAKE PLACE. PROTECTION SHALL BE ACCEPTABLE TO THE GENERAL CONTRACTOR.

TEMPORARY CONSTRUCTION POWER AND LIGHTING

THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY WIRING FOR CONSTRUCTION POWER AND LIGHTING FOR THE PROJECT.

TEMPORARY ELECTRICAL SERVICE FOR CONSTRUCTION POWER AND LIGHTING SHALL BE PROVIDED BY THIS CONTRACTOR.

ALL TEMPORARY WIRING FOR CONSTRUCTION SHALL CONFORM TO ARTICLE 305 OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE RULES AND REGULATIONS OF OSHA.

RECORD DRAWINGS AND MAINTENANCE MANUALS

THIS CONTRACTOR SHALL MAINTAIN A SET OF UP-TO-DATE RECORD DRAWINGS AT THE JOB SITE SHOWING WORK AS INSTALLED. UPON COMPLETION OF THE PROJECT, THIS CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS ON MYLAR SHOWING CONDITIONS AS INSTALLED. THREE (3) COPIES OF MAINTENANCE MANUALS CONTAINING MANUFACTURER'S INSTALLATION AND MAINTENANCE INFORMATION ON ALL EQUIPMENT INSTALLED SHALL BE PRESENTED TO THE OWNER. FINAL PAYMENT SHALL BE MADE AFTER AS-BUILT DRAWINGS AND MAINTENANCE MANUALS HAVE BEEN APPROVED.

TESTS

THE ENTIRE WIRING SYSTEM SHALL BE THOROUGHLY TESTED AND DEFECTS CORRECTED. ALL ELECTRICAL WIRING SHALL BE TESTED FOR CONTINUITY, SHORTS, IMPROPER GROUNDS AND INSULATION RESISTANCE. MOTORS SHALL BE CHECKED FOR PROPER ROTATION AND BRANCH CIRCUIT AND OVERLOAD PROTECTION. PANELBOARDS SHALL BE CHECKED FOR BALANCED LOADING. PANELBOARDS SHALL BE CHECKED FOR CORRECT PHASE ROTATION. DISCREPANCIES SHALL BE CORRECTED. THIS CONTRACTOR SHALL FURNISH TEST EQUIPMENT AND MATERIAL, AND SHALL BE RESPONSIBLE FOR REPLACEMENT OR REPAIR OF DAMAGE DUE TO TEST FAILURES.

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE TO THE OWNER ALL WORK PERFORMED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. DEFECTS ARISING DURING THIS PERIOD WILL BE PROMPTLY REMEDIED BY THE CONTRACTOR AT HIS OWN EXPENSE UPON NOTICE BY THE OWNER. ALL LAMPS FOR LIGHTING FIXTURES SHALL BE EXCLUDED FROM THIS GUARANTEE, BUT ONE (1) COMPLETE AND OPERATIVE SET OF LAMPS FOR LIGHTING FIXTURES SHALL BE IN PLACE AT THE TIME OF FINAL ACCEPTANCE.

ELECTRICAL RACEWAYS

ALL WIRING SHALL BE INSTALLED IN A CONTINUOUS CONDUIT SYSTEM.

ALL CONDUIT SUBJECT TO WEATHER AND/OR MECHANICAL DAMAGE SHALL BE GALVANIZED RIGID STEEL OR IMC.

ELECTRIC METALLIC TUBING (EMT) MAY BE USED FOR ALL OTHER CONDUIT APPLICATIONS UNLESS MODIFIED BY THIS SPECIFICATION OR BY THE DRAWINGS. MINIMUM CONDUIT SIZE SHALL BE 1/2".

SEALTITE FLEXIBLE METAL CONDUIT SHALL BE USED FOR FINAL CONNECTION TO MOTORS AND EQUIPMENT SUBJECT TO VIBRATION.

SEALTITE CONDUIT SHALL NOT BE USED FOR OTHER APPLICATIONS.

PVC SCHEDULE 40 CONDUIT SHALL BE USED FOR OUTDOOR UNDERGROUND CONDUIT RUNS.

EXPOSED CONDUIT SHALL BE RUN IN PARALLEL ROWS NEATLY RACKED PARALLEL OR PERPENDICULAR TO WALLS AND STRUCTURAL MEMBERS.

WHEREVER POSSIBLE, LOCATE CONDUIT HIGH AS POSSIBLE OVER PIPING OF OTHER TRADES. ALL HORIZONTAL CONDUIT RUNS ABOVE FURRED CEILINGS SHALL BE RUN AS HIGH AS POSSIBLE IN ORDER TO PROVIDE FREE SPACE ABOVE CEILING FOR INSTALLATION OF AIR DISTRIBUTION DUCT AND PIPING.

PLUG THE ENDS OF EACH RACEWAY WITH AN APPROVED CAP OR CAPPED BUSHING TO PREVENT THE ENTRANCE OF FOREIGN MATERIAL DURING THE CONSTRUCTION PERIOD. CONDUIT LEFT EMPTY FOR FUTURE WIRING SHALL BE CAPPED.

CONDUTS PRACTICING THROUGH ROOFING SHALL BE MADE WATERTIGHT BY PROPER FLASHING AND PITCH POCKETS WITH STORM COLLAR SECURELY FASTENED TO CONDUIT ABOVE THE FLASHING.

PROVIDE BONDING TYPE CONDUIT EXPANSION JOINTS OR FITTINGS WHERE CONDUIT CROSSES BUILDING EXPANSION JOINTS. ALL EXPANSION JOINT FITTINGS TO BE PROVIDED WITH EXTERNAL BONDING JUMPER ARE TO BE OF TYPE APPROVED FOR USE WITH A BONDING JUMPER.

ALL RIGID STEEL AND IMC CONDUIT COUPLINGS, FITTINGS, AND CONNECTORS SHALL BE THREADED TYPE.

WHERE PVC CONDUIT IS USED, ALL JOINTS SHALL BE SOLVENT WELDED WITH CEMENT FURNISHED BY THE CONDUIT MANUFACTURER. PROVIDE SUITABLE ADAPTERS WHERE PVC CONDUITS ARE COUPLED TO METALLIC CONDUITS.

PROVIDE A RIGID ELBOW AT BASE OF EACH EXPOSED RISER FROM BELOW GRADE, AS INDICATED ON THE DRAWINGS OR AS REQUIRED.

CONDUT SHALL NOT BE RUN IN OR UNDER FLOOR SLAB, EXCEPT WHERE RISING UP FROM UNDERGROUND SERVICE TO BUILDING PANELBOARDS.

PROVIDE FIRE BARRIER PENETRATION SEALS WHERE CONDUIT PENETRATES FIRE RATED WALLS OR FLOORS.

WHERE RUN CONCEALED AND ALLOWED BY CODE, IT IS ACCEPTABLE TO USE TYPE "MC" CABLE INLIEU OF EMT CONDUIT AND BUILDING WIRE.

FROM EACH FLUSH MOUNTED PANELBOARD, EXTEND INTO AN ACCESSIBLE LOCATION A 3/4" EMPTY CONDUIT FOR EVERY THREE SPARE BRANCH BREAKERS OR BREAKER SPACES.

CONDUCTORS

ALL CONDUCTORS SHALL BE STRANDED COPPER WITH THHN-TYPE 2 INSULATION. ALL CONDUCTORS SHALL BEAR THE UL LABEL. MINIMUM SIZE CONDUCTOR SHALL BE #12 AWG.

SWITCH REQUIREMENTS

PROVIDE A SWITCH AT EACH LOCATION AS SHOWN ON THE DRAWINGS.

RECEPTACLE REQUIREMENTS

PROVIDE A DUPLEX CONVENIENCE OUTLET AT EACH LOCATION AS SHOWN ON THE DRAWINGS.

NOT MORE THAN SIX (6) DUPLEX CONVENIENCE OUTLETS SHALL BE WIRED TO A SEPARATE 120 VOLT CIRCUIT.

ALL WIRING DEVICES SHALL BE RATED 15 AMP, COMMERCIAL GRADE, AS MANUFACTURED BY HUBBELL OR AN APPROVED EQUAL.

PROVIDE SPECIAL OUTLETS AS PER THE SPECIAL OUTLET SCHEDULE SHOWN ON THE DRAWINGS.

RECEPTACLES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE SEPARATED BY NO LESS THAN 24".

TELEPHONE OUTLET REQUIREMENTS

EXTEND A 3/4" EMPTY CONDUIT STUB-UP FROM EACH OUTLET INTO THE SPACE ABOVE THE CEILING AT EACH OUTLET LOCATION.

PROVIDE TERMINATION FACILITIES, SERVICE ENTRANCE CONDUIT, AND ELECTRICAL RECEPTACLE, AS REQUIRED BY THE LOCAL TELEPHONE COMPANY.

MOUNTING HEIGHTS

INSTALL RECEPTACLES AT THE FOLLOWING HEIGHTS:

1"-6" ABOVE FINISHED FLOOR IN FINISHED AREAS
8" ABOVE COUNTER TOPS EXCEPT WHERE SPECIFICALLY INDICATED

INSTALL WALL SWITCHES AND FIRE ALARM MANUAL STATIONS.
4"-6" ABOVE FINISHED FLOOR OR AS SPECIFICALLY INDICATED ON THE PLANS.

INSTALL OUTLETS FOR OTHER DEVICES:
AS INDICATED ON THE PLANS

ELECTRICAL IDENTIFICATION

ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED USING ENGRAVED PLASTIC LAMINATED LABELS, WHITE WITH BLACK CORE.

PANELBOARDS - GENERAL REQUIREMENTS

BUSING FOR PANELBOARDS SHALL BE COPPER.
ALL GROUND BARS SHALL BE COPPER.

PANELBOARDS SHALL BE SERVICE ENTRANCE RATED WHERE REQUIRED.

CIRCUIT BREAKER TYPE 208/120 VOLT APPLIANCE PANELBOARDS

208Y/120 VOLTS, AC, 3-PHASE, 4-WIRE S/N LIGHTING AND APPLIANCE PANELBOARDS SHALL BE SQUARE D COMPANY TYPE NQD, OR GENERAL ELECTRIC CO., TYPE "AO", OR APPROVED EQUAL, EQUIPPED WITH BOLT-ON THERMAL-MAGNETIC CIRCUIT BREAKERS. BREAKERS SHALL BE 1, 2-POLE OR 3-POLE WITH INTEGRAL CROSSBAR TO ASSURE SIMULTANEOUS OPENING OF ALL POLES IN MULTIPLE CIRCUIT BREAKERS. BOLT-ON CIRCUIT BREAKERS SHALL BE ABLE TO BE INSTALLED IN SAME PANELBOARDS WITHOUT REQUIRING ADDITIONAL HARDWARE. CIRCUIT BREAKERS SHALL BE RATED 120/208 VOLTS AC (SINGLE POLE 15 - 50 AMPERE) OR 208 VOLT AC (2-POLE, 15 - 50 AMPERE OR 3-POLE) WITH CONTINUOUS CURRENT RATINGS, AS NOTED ON THE DRAWINGS. INTERRUPTING RATING SHALL BE 42,000 RMS SYMMETRICAL AMPERE. SINGLE POLE 15 AND 20 AMPERE CIRCUIT BREAKERS SHALL CARRY THE SWD MARKING. EACH PANELBOARD SHALL BE EQUIPPED WITH A BARE UNSULPHATED EQUIPMENT GROUNDING BAR FOR USE IN TERMINATING SEPARATE EQUIPMENT GROUNDING CONDUCTORS.

PANELBOARD ENCLOSURES

PROVIDE GALVANIZED SHEET STEEL CABINET TYPE ENCLOSURES FOR ALL PANELBOARDS IN SIZES AND NEMA TYPES, AS REQUIRED, RIGIDITY AND GAUGE OF STEEL TO BE AS SPECIFIED IN UL STANDARD 50 FOR CABINETS. WIRING GUTTER SPACE TO BE IN ACCORDANCE WITH UL STANDARD 67 FOR PANELBOARDS, AS A MINIMUM. LIGHTING AND APPLIANCE PANELBOARDS SHALL BE SUPPLIED WITH FRONT PANEL, CATCH AND SPRING LOOSE STAINLESS STEEL DOOR. ALL PANELBOARDS SHALL BE EASY ALIGN. FRONTS SHALL HAVE ADJUSTABLE INDICATING TRIM CLAMPS WHICH SHALL BE COMPLETELY CONCEALED WHEN DOORS ARE CLOSED. DOORS SHALL BE MOUNTED WITH COMPLETELY CONCEALED STEEL HINGES. FRONTS SHALL NOT BE REMOVABLE WITH DOOR INLOCKED POSITION. CIRCUIT DIRECTORY FRAME AND CARD WITH CLEAR PLASTIC COVERING SHALL BE PROVIDED ON THE INSIDE OF THE DOOR. THE POWER DISTRIBUTION PANELBOARDS SHALL BE EQUIPPED WITH LOCKABLE DOORS AND HAVE CONCEALED, SELF-ADJUSTING TRIM CLAMPS. FRONTS SHALL BE OF FULL-FINISHED STEEL WITH RUST INHIBITING PRIMER AND BAKED ENAMEL FINISH FURNISH EACH PANELBOARD WITH HINGED TRIM OPTION.

SUPPORTING DEVICES

ALL ELECTRICAL EQUIPMENT SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE BY MEANS OF STRUT, BEAM CLAMPS, THREADED ROD, ONE HOLE MALLEABLE IRON CONDUIT STRAPS, ETC. THE CEILING SUPPORT SYSTEM SHALL NOT BE USED FOR SUPPORTING CONDUIT.

WIRING FOR HVAC EQUIPMENT

THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING FOR HVAC EQUIPMENT WHERE VOLTAGE EXCEEDS 30 VOLTS. THIS CONTRACTOR SHALL ALSO PROVIDE INTERLOCK WIRING BETWEEN FIRE ALARM DEVICES AND THE CONTROL CIRCUITS OF HVAC EQUIPMENT.

WIRING FOR FOOD SERVICE EQUIPMENT

FURNISH AND INSTALL ELECTRICAL WIRING, OUTLETS, AND EQUIPMENT CONNECTIONS FOR FOOD SERVICE EQUIPMENT, WHERE SO INDICATED ON THE DRAWINGS.

COORDINATE THE INSTALLATION OF ALL EQUIPMENT AND ELECTRICAL REQUIREMENTS WITH THE EQUIPMENT SUPPLIER AND THE LATEST FOOD SERVICE INSTALLATION DRAWINGS.

WHERE A DISCONNECT DEVICE IS NOT FURNISHED WITH THE FOOD SERVICE EQUIPMENT, THIS CONTRACTOR SHALL FURNISH AND INSTALL A DISCONNECT DEVICE THAT SATISFIES THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND THE MEMPHIS AND SHELBY COUNTY ELECTRICAL.

THIS CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT, WHERE A CORD AND PLUG IS REQUIRED FOR CONNECTING A PIECE OF FOOD SERVICE EQUIPMENT AND IS NOT FURNISHED WITH THE EQUIPMENT, IT SHALL BE PROVIDED BY THIS CONTRACTOR.

SEISMIC RESTRAINTS

ALL ELECTRICAL EQUIPMENT SHALL BE SUPPORTED WITH MULTIDIRECTIONAL BRACING AS REQUIRED BY THE NATIONAL, STATE, AND/OR LOCAL BUILDING CODES.

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