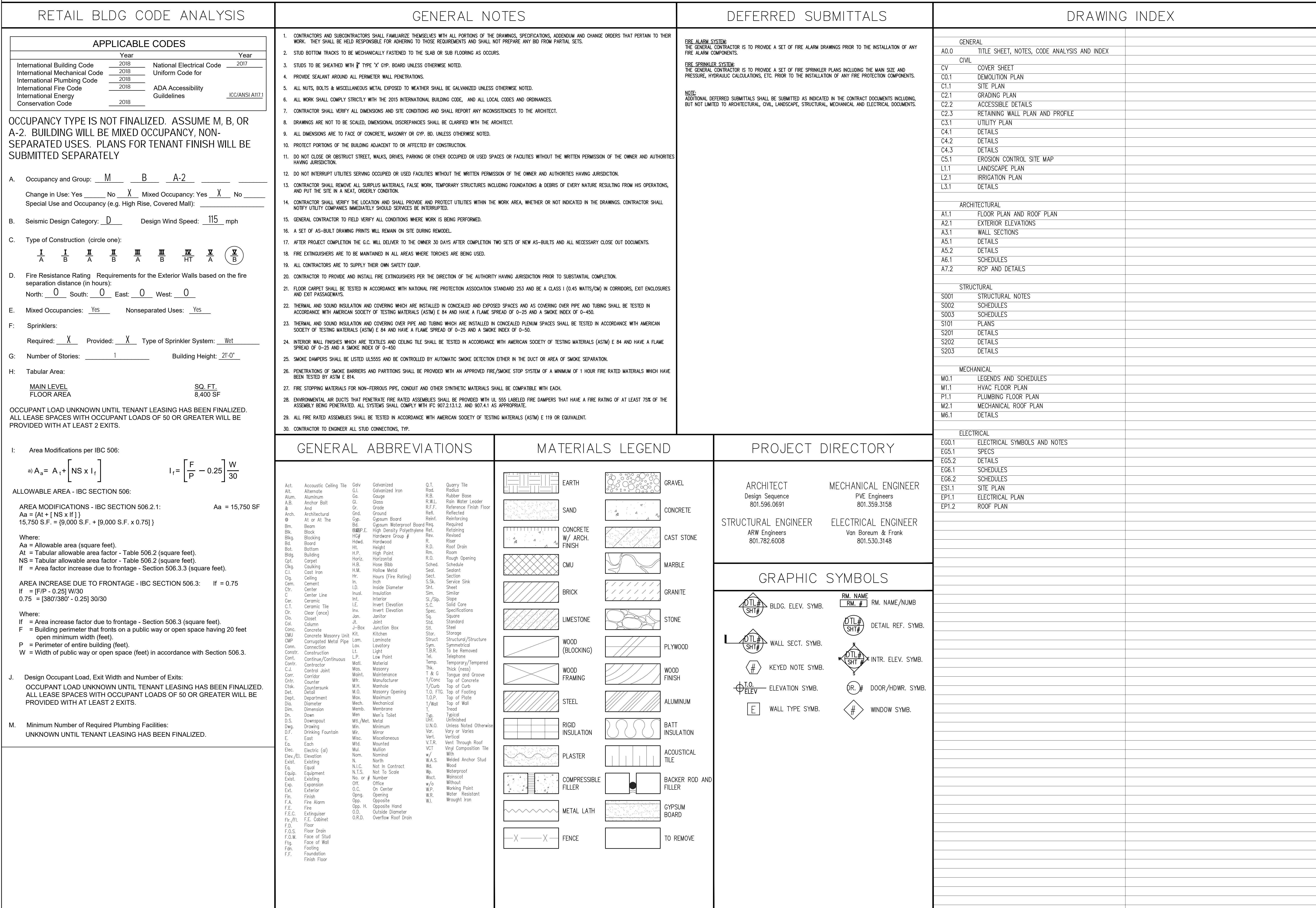
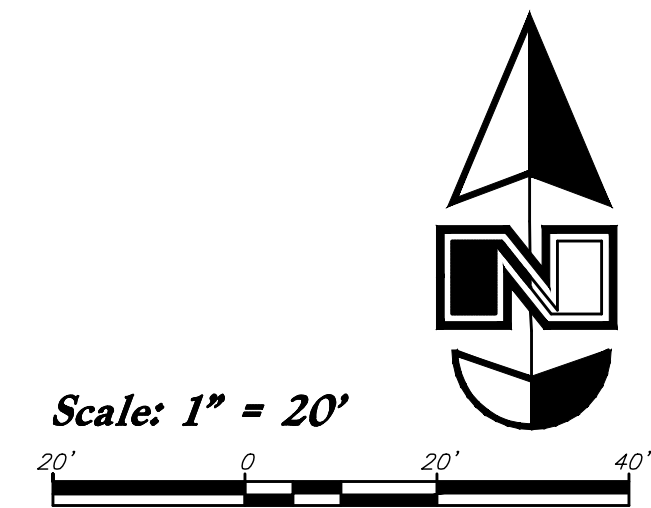


design
SEQUENCE
350 SOUTH 200 EAST, #106
SALT LAKE CITY, UTAH 84111
P: 801.596.0691
DESIGNUTAH.COM





1. Demolition and site clearing for this contract are to include all areas shown within demolition limits or by note.
2. Refer to site improvement plans for more details on limits of removal.
3. All curbs, gutters, walks, slabs, walls, fences, flatwork, asphalt, waterlines and meters, gas lines, sewer lines, light poles, buried cables, storm drain piping and structures to be cleared from site unless otherwise shown.
4. All utilities, sewer, water, gas, telephone and electrical services to be disconnected and capped according to city, county and utility company requirements, unless otherwise shown.
5. Excavated areas to be backfilled with clean granular material compacted to 95% of maximum lab density as determined by ASTM D 1557-78. (Test results to be given to owner) Excavated areas should be backfilled per the geotechnical report prepared for the project.
6. Clear and grub trees, shrubs, and vegetation within construction limits, disposal to be off-site except where noted otherwise.
7. DO NOT interrupt any services or disrupt the operation of any businesses shown outside the demolition limits.
8. Remove debris, rubbish, and other materials resulting from the demolition and site clearing operations from the site and dispose of in a legal manner.
9. The location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied upon as being exact or complete. Contractor shall contact utilities having jurisdiction for field locations. Contractor shall be responsible for protection of in place and relocated utilities during construction.
10. Stockpiles shall be graded to maintain slopes not greater than 3 horizontal to 1 vertical. Provide erosion control as needed to prevent sediment transport to adjacent drainage ways.
11. Contractor shall be responsible for disposal of all waste material. Disposal shall be at an approved site for such material. Burning onsite is not permitted.
12. Contractor shall verify with city any street removal, curb cuts, and any restoration required for utility line removal.
13. Install traffic warning devices as needed in accordance with local standards.
14. Contractor shall obtain all permits necessary for demolition from City, County, State or Federal Agencies as required.
15. If Contractor observes evidence of hazardous materials or contaminated soil he shall immediately contact the project engineer to provide notification and obtain direction before proceeding with disturbance of said materials or contaminated soil.
16. Limits of demolition/disturbed areas shown on the plans may not be an exact depiction. It is the contractor's responsibility to determine the means and methods of how the work will be completed. The contractor shall determine the area of construction impact. The contractor is responsible for restoring impacted areas and all restoration shall be part of the contract bid.

The location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete.

[illegible]

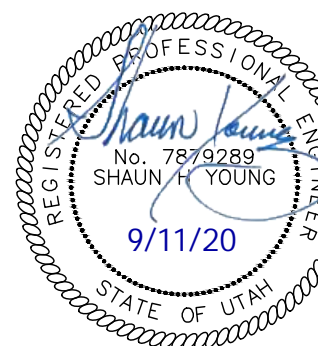
Designed by: SY
Drafted by: JD
Client Name:
Ridley's Family Markets
20-112 DM



Demolition Plan

Ridley's Santaquin - Retail C

400 East and Main, Street
Santaquin, Utah

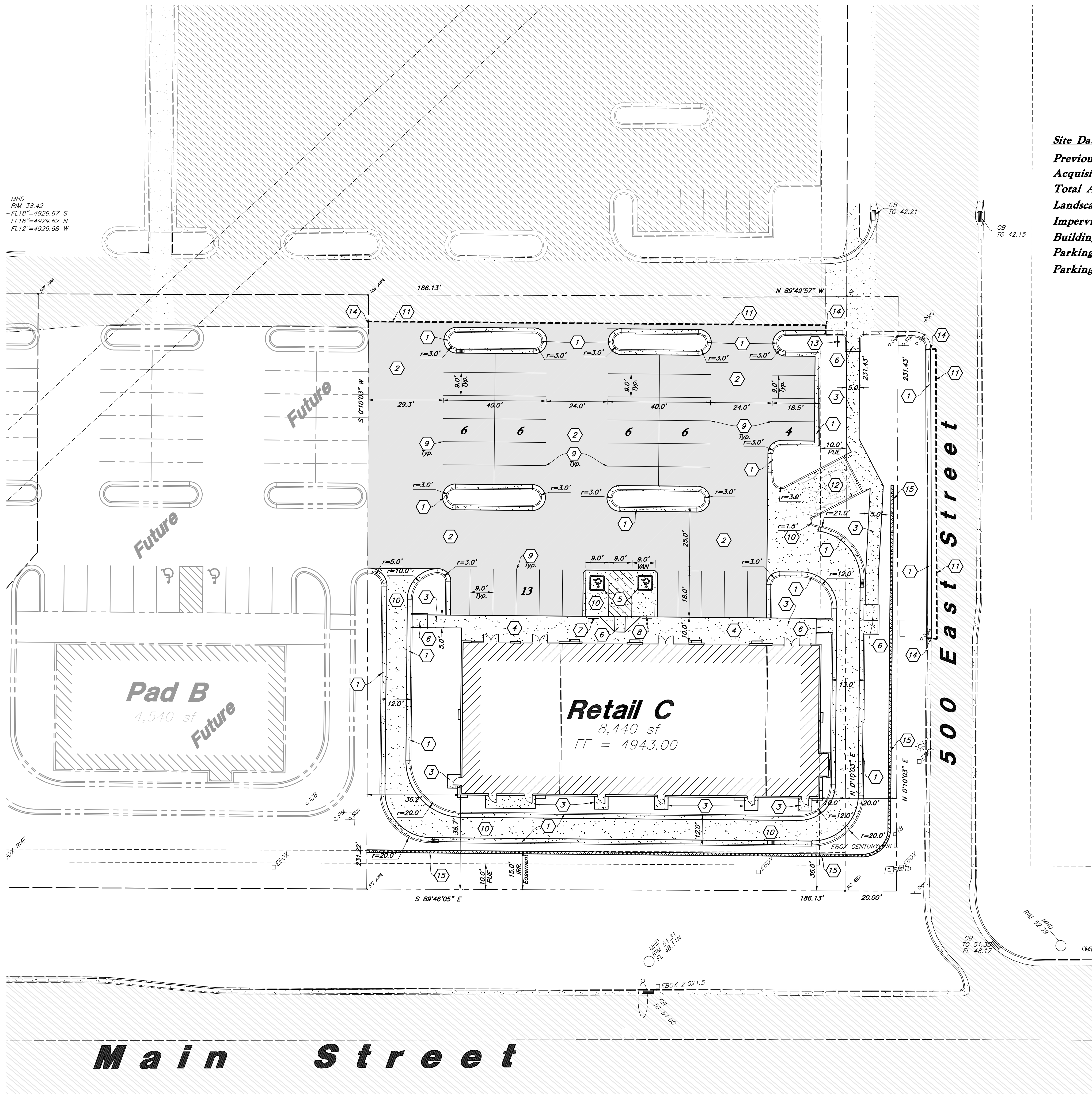


11 Sep, 2020

SHEET NO.

CO.1

MHD
RIM 38.42
-FL 18"=4929.67 S
FL 18"=4929.62 N
FL 12"=4929.68 W



Site Data

Previous Property Area = 43,056 s.f.
Acquisition Area = 4,629 s.f.
Total Area = 47,685 s.f. (1.09 ac.)
Landscape Area Provided = 11,234 s.f. (23.6%)
Impervious Area Provided = 28,011 s.f. (58.7%)
Building Area = 8,440 s.f. (17.7%)
Parking Required = 1/200 s.f. = 43 stalls
Parking Provided = 41 stalls (4.9/1,000)

Scale: 1" = 20'

Site Construction Notes

1. Const. 24" Curb & Gutter (C4.1)
2. Const. Asphalt Paving (C4.1)
3. Const. Conc. Sidewalk (C4.1)
4. Const. Thickened Edge Sidewalk (C4.1)
5. Const. Accessible Striping per MUTCD & ICC/ANSI A117.1 (Latest Edition) (See Accessible Details and Notes) (C4.2)
6. Const. Accessible Ramp per ICC/ANSI A117.1 (Latest Edition) (See Accessible Details and Notes) (C4.2)
7. Const. Accessible Sign per MUTCD & ICC/ANSI A117.1 (Latest Edition) (See Accessible Details and Notes) (C4.2)
8. Const. Accessible VAN Sign per MUTCD & ICC/ANSI A117.1 (Latest Edition) (See Accessible Details and Notes) (C4.2)
9. Const. 4" White Paint Stripe (Typ.) Contractor shall provide 15 mils min. thickness (C4.1)
10. Const. Conc. Paving (C4.1)
11. Sawcut; Provide Smooth Clean Edge (C4.1)
12. Dumpster Enclosure (See Arch. Plans)
13. Relocated Stop Sign (C4.1)
14. Conn. & Match Existing Improvements (C4.1)
15. Const. Modular Block Retaining Wall (Wall Design By Others) (C4.1)

General Site Notes:

1. All dimensions are to back of curb unless otherwise noted.
2. Fire lane markings and signs to be installed as directed by the Fire Marshal.
3. Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
4. Const. curb transition at all points where curb abuts sidewalk, see detail.
5. Contractor shall place asphalt paving in the direction of vehicle travel where possible.
6. Limits of demolition/disturbed areas shown on the plans may not be an exact depiction. It is the contractor's responsibility to determine the means and methods of how the work will be completed. The contractor shall determine the area of construction impact. The contractor is responsible to restore all impacted areas and all restoration shall be part of the contract bid.

Construction Survey Note:

The Construction Survey Layout for this project will be provided by Anderson Wahlen & Associates. The Layout Proposal and Professional Services Agreement will be provided to the General Contractor(s) for inclusion in base bids. The Survey Layout proposal has been broken out into Building Costs and Site Costs for use in the Site Work Bid Form.

Survey Control Note:

The contractor or surveyor shall be responsible for following the National Society of Professional Surveyors (NSPS) model standards for any surveying or construction layout to be completed using Anderson Wahlen and Associates ALTA Surveys or Anderson Wahlen and Associates construction improvement plans. Prior to proceeding with construction staking, surveyor shall be responsible for verifying horizontal control from the survey monuments and for verifying any additional control points shown on an ALTA survey, improvement plan, or on electronic data provided by Anderson Wahlen and Associates. The surveyor shall also use the benchmarks as shown on the plan, and verify them against no less than three existing hard improvement elevations included on these plans or on electronic data provided by Anderson Wahlen and Associates. If any discrepancies are encountered, the surveyor shall immediately notify the engineer and resolve the discrepancies before proceeding with any construction staking.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

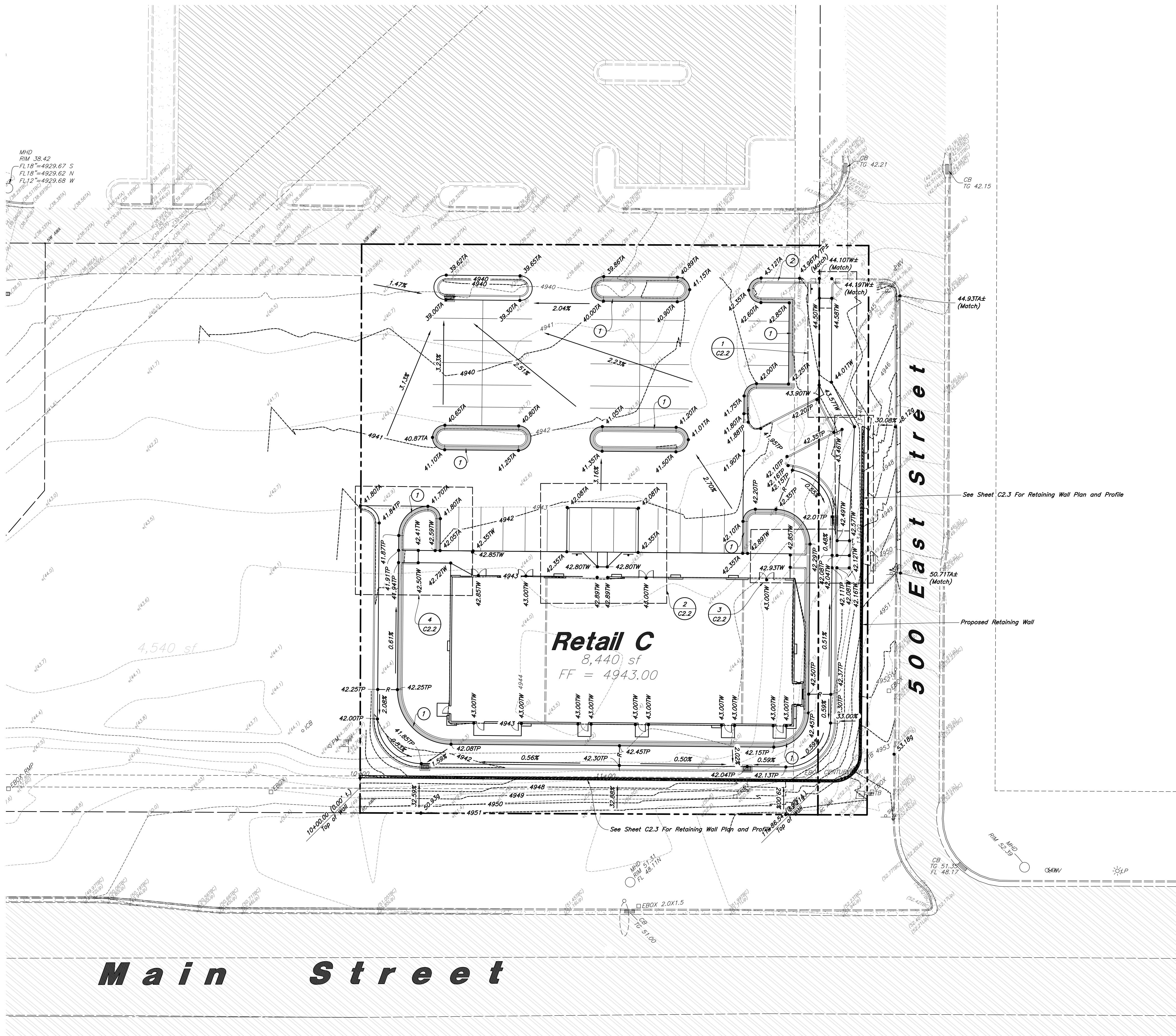
The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
(801) 521-8529 - AWaengineering.net

Ridley's Santaquin - Retail C
400 East and Main Street
Santaquin, UT

REGISTERED PROFESSIONAL ENGINEER
No. 79518
SHAUN H. YOUNG
9/11/20
STATE OF UTAH

11 Sep, 2020
SHEET NO.
C1.1



Scale: 1" = 20'

General Grading Notes:

1. All grading shall be in accordance with the project geotechnical study.
2. Cut slopes shall be no steeper than 3 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 3 horizontal to 1 vertical.
4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by a Geotechnical Engineer.
5. Areas to receive fill shall be properly prepared and approved by a Geotechnical Engineer prior to placing fill.
6. Fills shall be benched into competent material as per specifications and geotechnical report.
7. All trench backfill shall be tested and certified by a Geotechnical Engineer.
8. A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
9. The final compaction report and certification from a Geotechnical Engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
10. Dust shall be controlled by watering.
11. The location and protection of all utilities is the responsibility of the permittee.
12. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading process.
13. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the City Engineer.
14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
15. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
16. Aggregate base shall be compacted per the geotechnical report prepared for the project.
17. The recommendations in the following Geotechnical Engineering Report by GSH Geotechnical, Inc. are included in the requirements of grading and site preparation. The Report is titled, "Geotechnical Study Proposed Ridley's Family Market Development Northeast Corner of the Intersection of Main Street and 400 East Street Santaquin, Utah".
Project No.: 2588-001-18
Dated: April 26, 2018
18. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
19. If Contractor observes evidence of hazardous materials or contaminated soils he shall immediately contact the project engineer to provide notification and obtain direction before proceeding with disturbance of said materials or contaminated soil.

Curb and Gutter Construction Notes:

1. Open face gutter shall be constructed where drainage is directed away from curb.
2. Open face gutter locations are indicated by shading and notes on the grading plan.
3. It is the responsibility of the surveyor to adjust top of asphalt grades to top of curb grades at the time of construction staking.
4. Refer to the typical details for standard and open face curb and gutter dimensions.
5. Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.
6. Spot elevations are shown on this plan with text masking. Coordinate and verify site information with project drawings.

Sidewalk Construction Notes:

1. Concrete sidewalk shall be constructed with a cross slope of 1.5% (2.08% Maximum) unless shown otherwise on plan.
2. Running slope of sidewalks shall be built per grades shown on the plan. where grades are not provided, sidewalks shall be constructed with a maximum running slope of 4.5%.
3. Refer to the Site Plan for sidewalk dimensions.

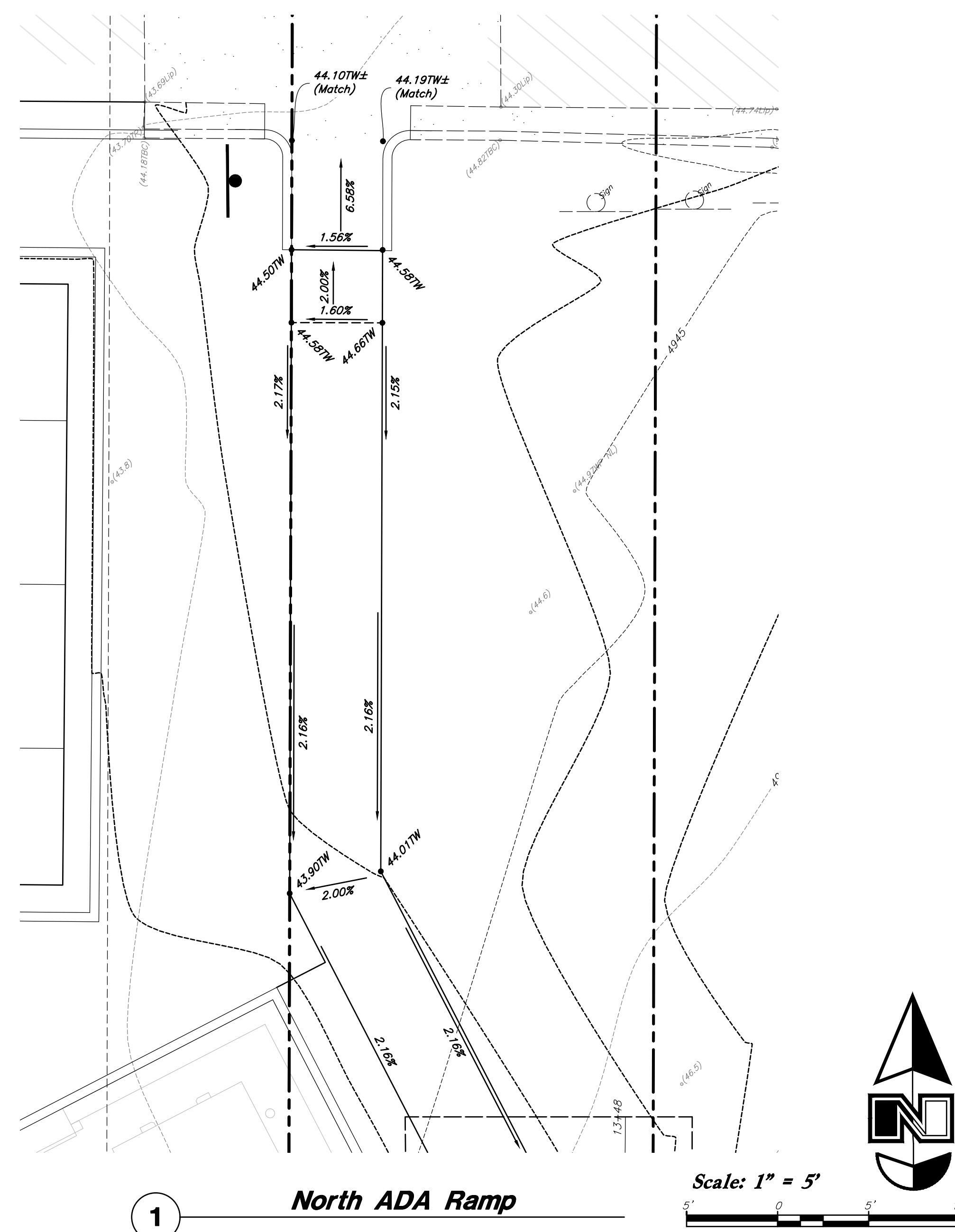
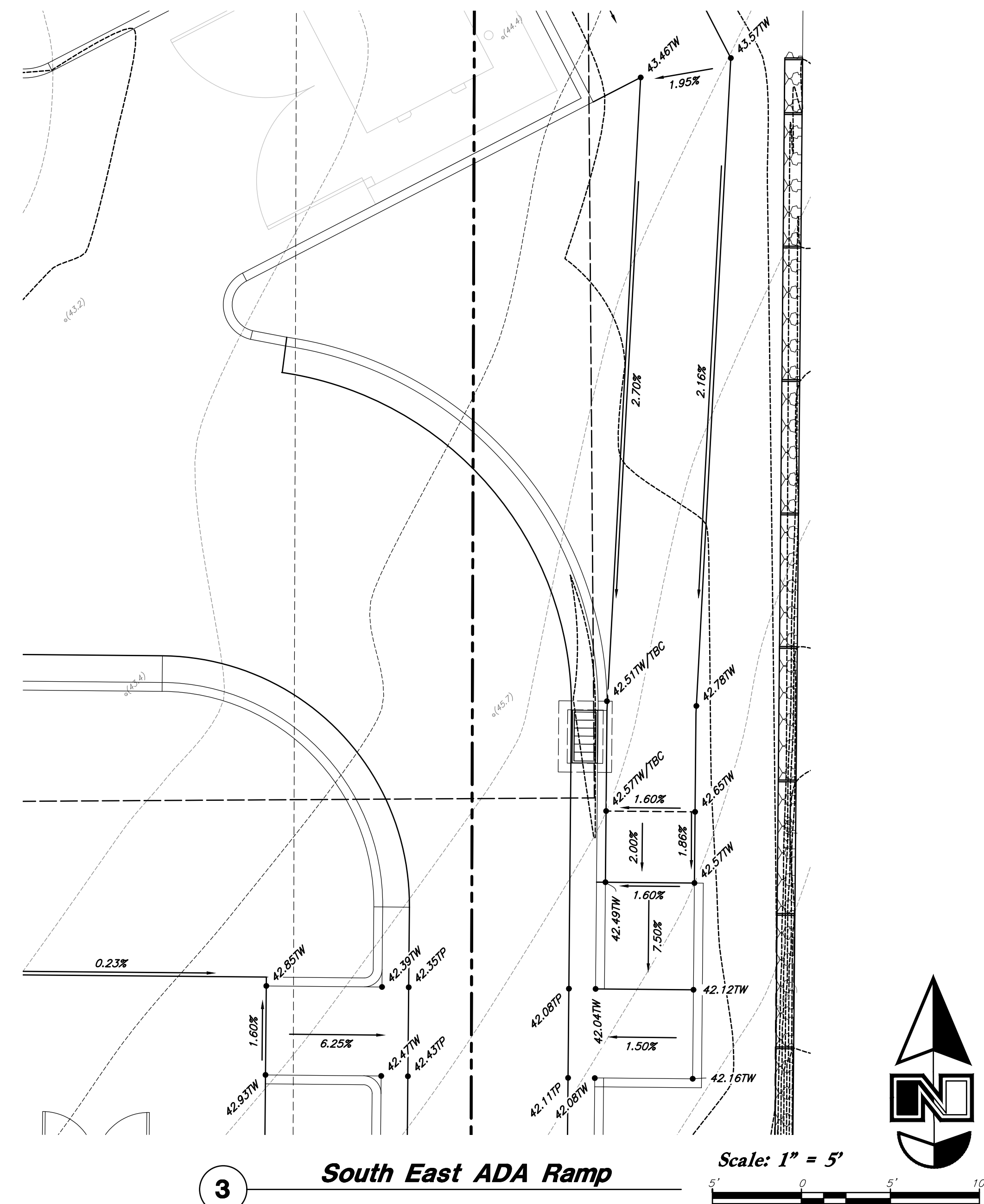
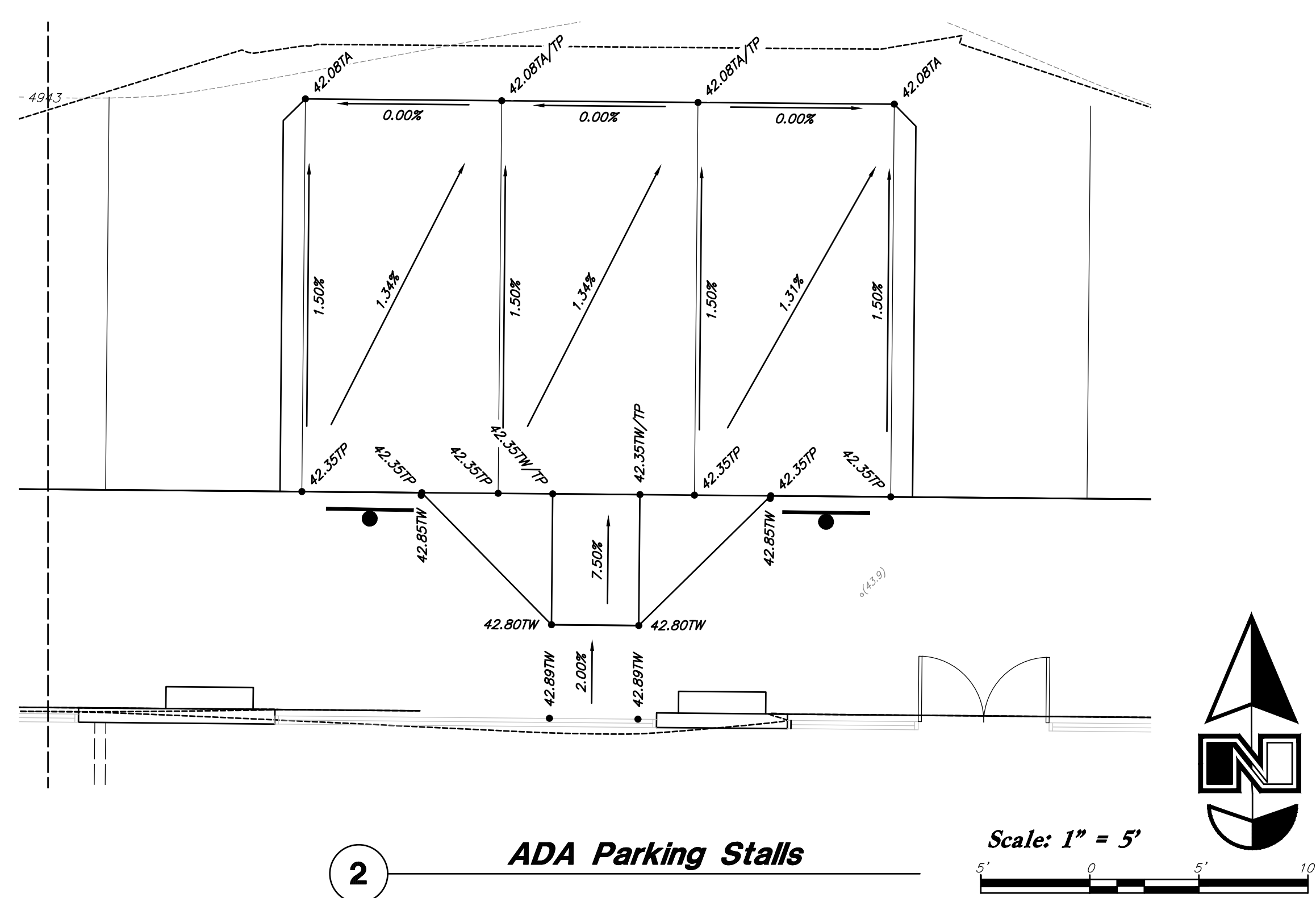
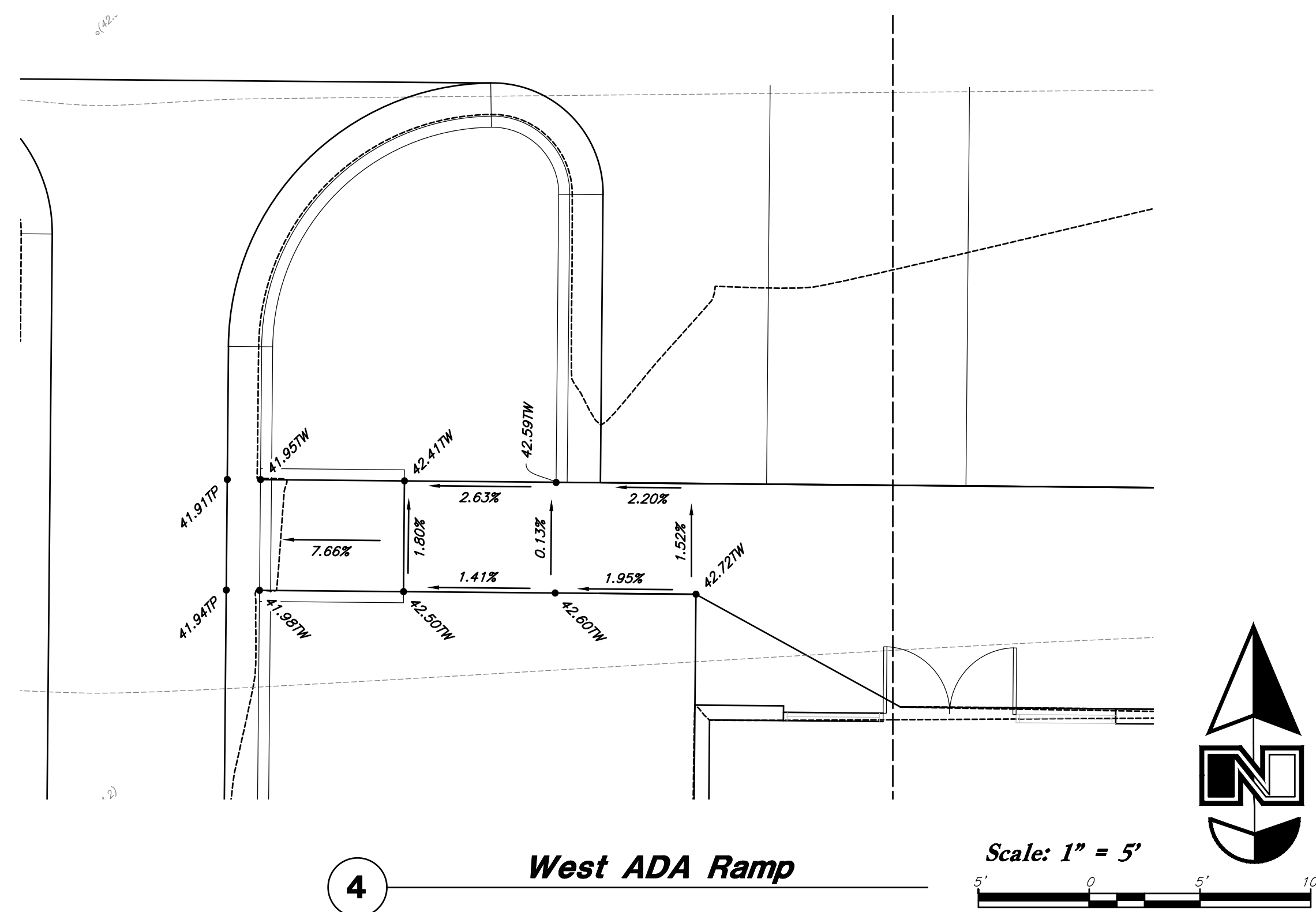
Designed by: SY
Drafted by: JD
Client Name:
Ridley's Family Markets
20-112 GR

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
(801) 321-8529 - awhengineering.net

Grading Plan
Ridley's Santaquin - Retail C
400 East and Main Street
Santaquin, UT

REGISTERED PROFESSIONAL ENGINEER
No. 795283
SHAUN K. YOUNG
9/11/20
STATE OF UTAH

11 Sep, 2020
SHEET NO.
C2.1



- Curb and Gutter Construction Notes:*

1. Open face gutter shall be constructed where drainage is directed away from curb.
- ① 2. Open face gutter locations are indicated by shading and notes on the grading plan.
3. It is the responsibility of the surveyor to adjust top of asphalt grades to top of curb grades at the time of construction staking.
4. Refer to the typical details for standard and open face curb and gutter dimensions.
- ② 5. Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.
6. Spot elevations are shown on this plan with text masking. Coordinate and verify site information with project drawings.

- Sidewalk Construction Notes:**

1. Concrete sidewalk shall be constructed with a cross slope of 1.5% (2.08% Maximum) unless shown otherwise on plan.
2. Running slope of sidewalks shall be built per grades shown on the plan. where grades are not provided, sidewalks shall be constructed with a maximum running slope of 4.5%.
3. Refer to the Site Plan for sidewalk dimensions.

Accessibility Note:

Contractor must maintain a running slope on Accessible routes no steeper than 1:20. The slope sign for All Accessible routes must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If Grades on plans do not meet this requirement notify Consultant immediately.

The Client, Contractor and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of Accessible and Usable Buildings and Facilities (ICC/ANSI A117.1-Latest Edition) and/or FHAA.

Accessible Details

Ridley's Santaquin - Retail C

400 East and Main Street
Santaquin, UT



ANDERSON WAHLEN & ASSOCIATES
 2010 North Redwood Road, Salt Lake City, Utah 84116
 (801) 521-8529 — AWengineering.net

Designed by: SY
Drafted by: JD
Client Name:
Ridley's Family Markets
20-112 GR

Drafted by: JD

Client Name: _____

Ridley's Family Markets

20-112 GR

11 Sep, 2020

SHEET NO.

C2.2

General Utility Notes:

1. All sewer and water facilities shall be constructed per local jurisdiction standards and specifications. Contractor is responsible to obtain standards and specifications.
2. Coordinate all utility connections to building with plumbing plans and building contractor.
3. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made.
4. All catch basin and inlet box grates are to be bicycle proof.
5. Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
6. Gas lines, telephone lines, and cable TV lines are not a part of these plans.
7. Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
8. Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible, at no cost to the owner, to construct any vertical adjustments necessary to clear sewer, storm drain, or other utilities as necessary including valve boxes and hydrant spools to proper grade.
9. Contractor shall install a 12" concrete collar around all manholes, valves, catch basins, cleanouts & any other structures located within the asphalt.

Utility Piping Materials:

All piping materials shall be per local agency standards or the specifications below at a minimum. All utility piping shall be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

Culinary Service Laterals

1. Polyethylene (PE) Water Pipe (Up to 3 inches diameter), AWWA C901, PE 3408, SDR 9 (200 psi)
2. Copper Pipe (Up to 3 inches diameter): Type 'K'

Water Main Lines and Fire Lines

1. Polyvinyl Chloride (PVC) (4 inches to 12 inches diameter): AWWA C900, Class 200

Sanitary Sewer Lines

1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35

Storm Drain Lines

1. 12" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
2. 15" pipes or larger - Reinforced Concrete Pipe, ASTM C76, Class III

CAUTION :

The locations and/or elevations of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete.



Storm Drain & Sanitary Sewer Note:

All Storm Drainage & Sanitary Sewer Pipe Lengths and Slopes are from Center of Structure to Center of Structure

Onsite Utility Connection Notes:

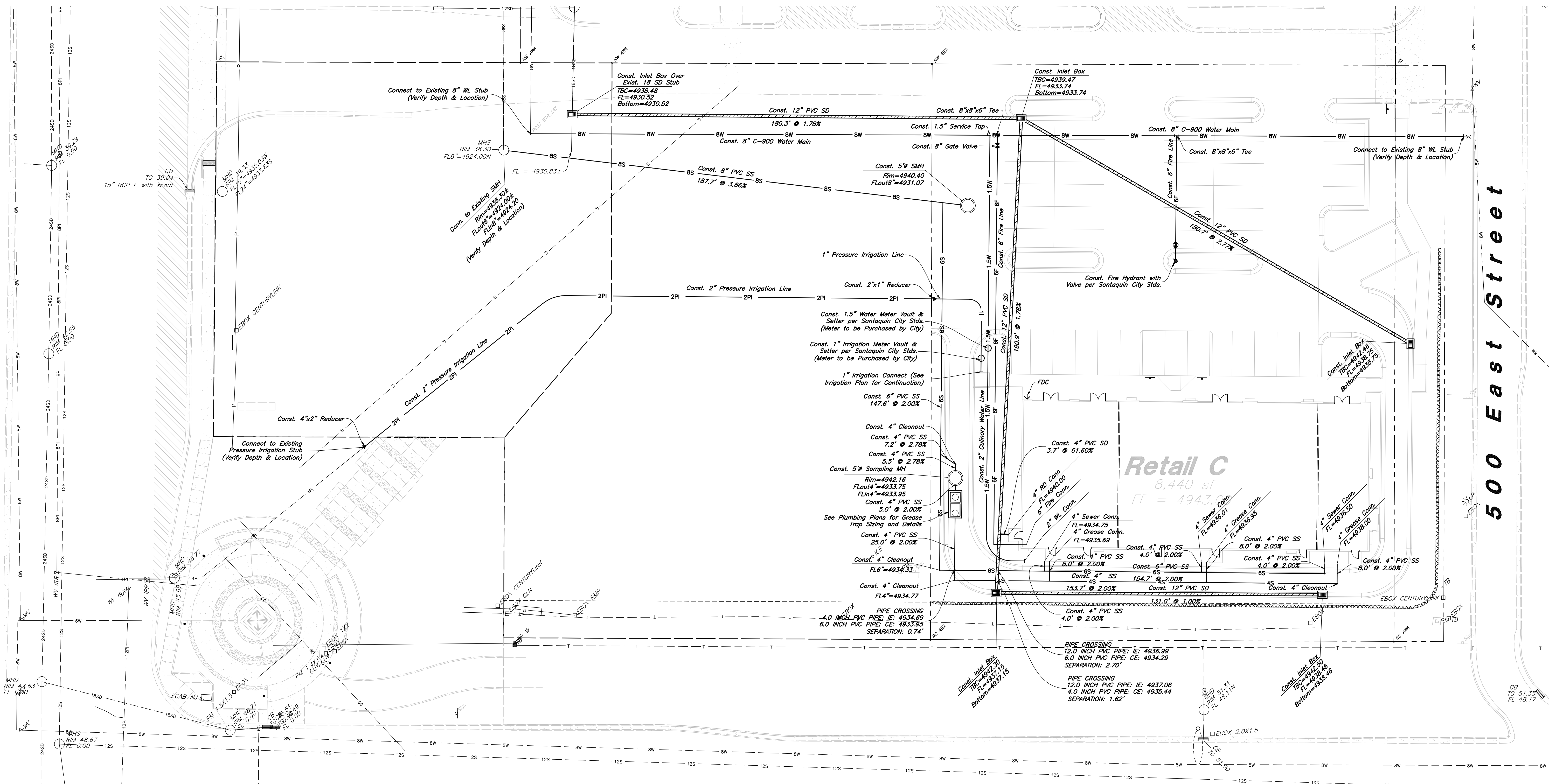
1. Contractor shall field verify all utility connection elevations prior to any utility construction has begun.
2. Contractor shall construct utility lines into site prior to any onsite utility construction. Gravity lines are to be constructed starting at the lowest point and be installed prior to any waterline installation
3. Construction of any onsite utilities prior to the offsite connection will be done at the contractors risk.

Scale: 1" = 20'



500 East Street

Main Street



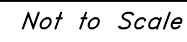
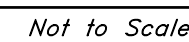
Designed by: JD
Drafted by: JD
Client Name:
Ridley's Family Markets
20-112 UT

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
(801) 521-8529 - AWaengineering.net

Utility Plan
Ridley's Santaquin - Retail C
400 East and Main Street
Santaquin, UT

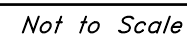
REGISTERED PROFESSIONAL ENGINEER
No. 795983
SHAUN H. YOUNG
9/11/20
STATE OF UTAH

11 Sep, 2020
SHEET NO.
C3.1



Not to Scale

- Not to Scale*



Not to Scale

- Not to Scale*

C4.1

14

Not Used

Not to Scale

12

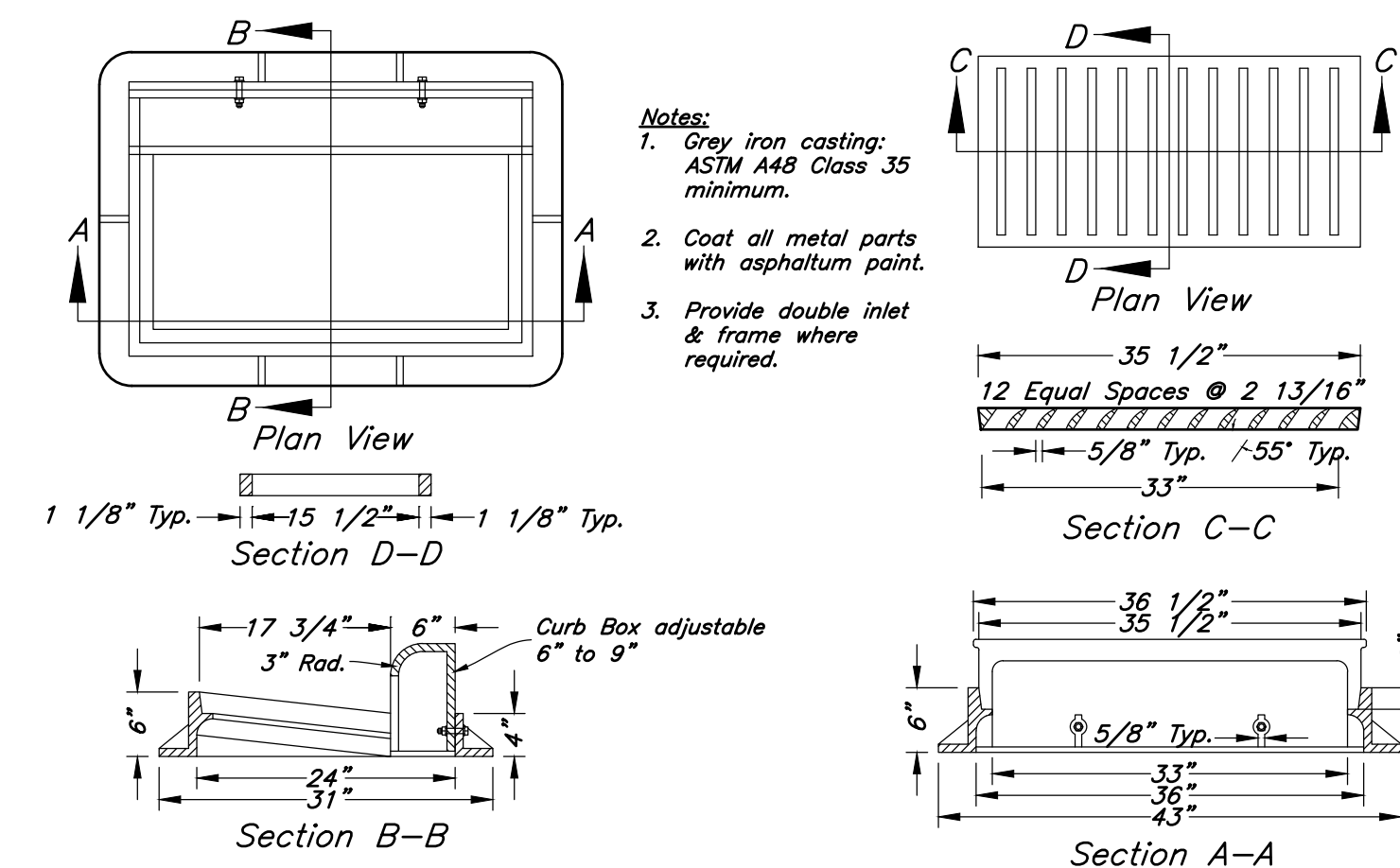
Not Used

Not to Scale

10

Inlet Grate Frame

Not to Scale



Designed by: SY
 Drafted by: JD
 Client Name:
 Ridley's Family Markets
 20-112 DT

ANDERSON WAHLEN & ASSOCIATES
 2010 North Redwood Road, Salt Lake City, Utah 84116
 (801) 521-8529 - awhengineering.net

Ridley's Santaquin - Retail C
 400 East and Main Street
 Santaquin, UT

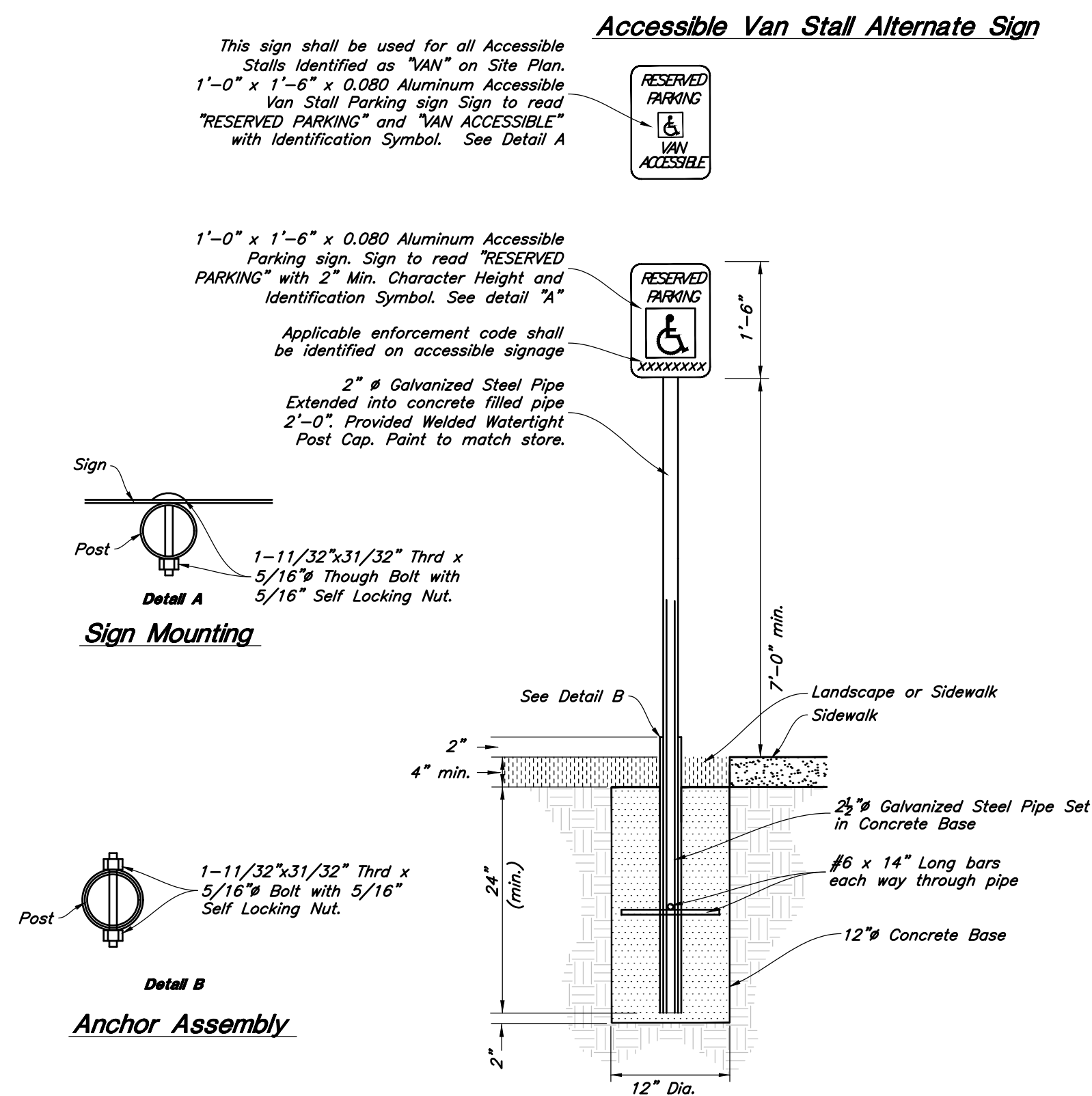
REGISTERED PROFESSIONAL ENGINEER
 No. 795383
 SHAUN H. YOUNG
 9/11/20
 STATE OF UTAH

11 Sep, 2020
 SHEET NO.
C4.2

13

Accessible Parking Sign

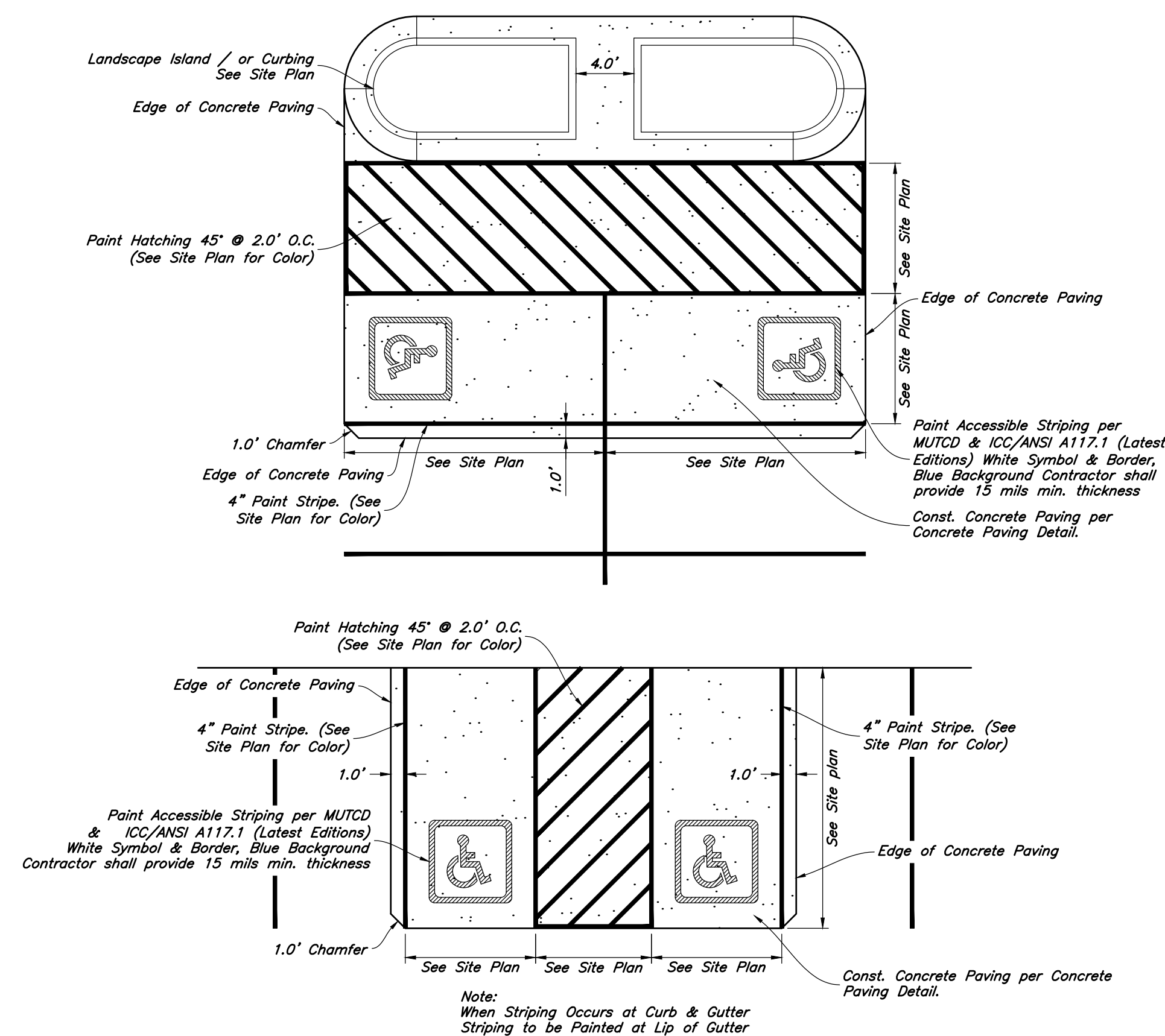
Not to Scale



11

Accessible Striping Detail

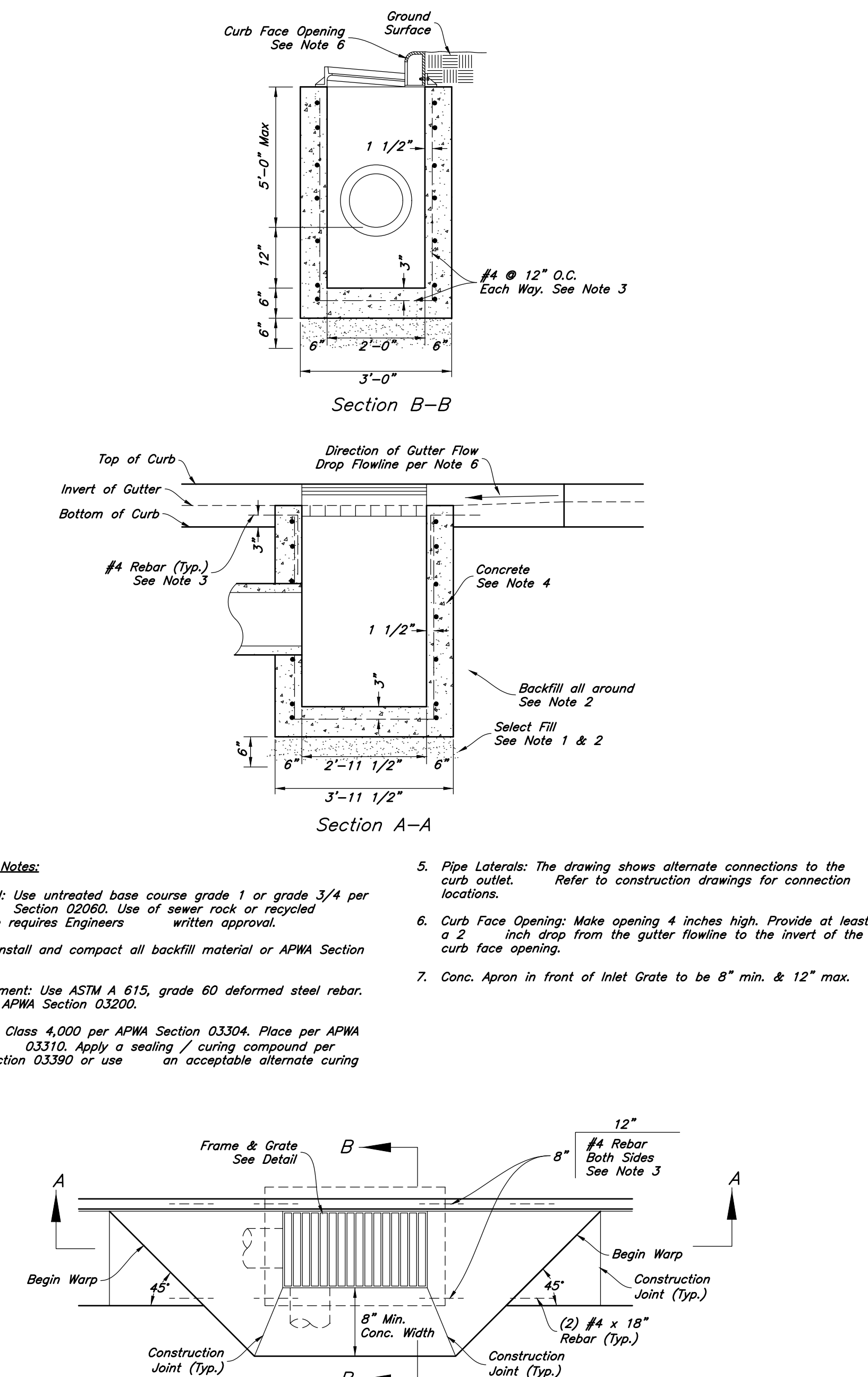
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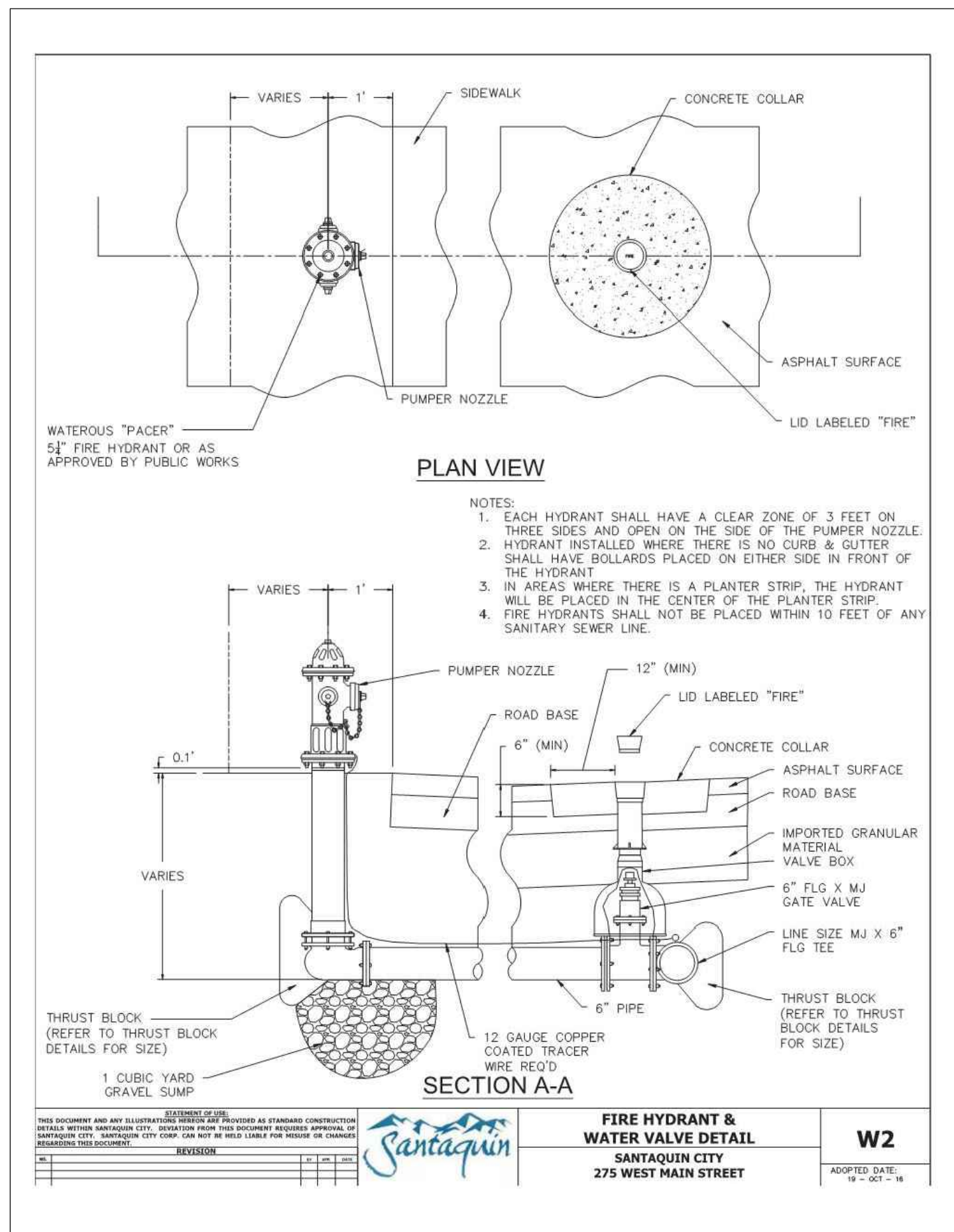


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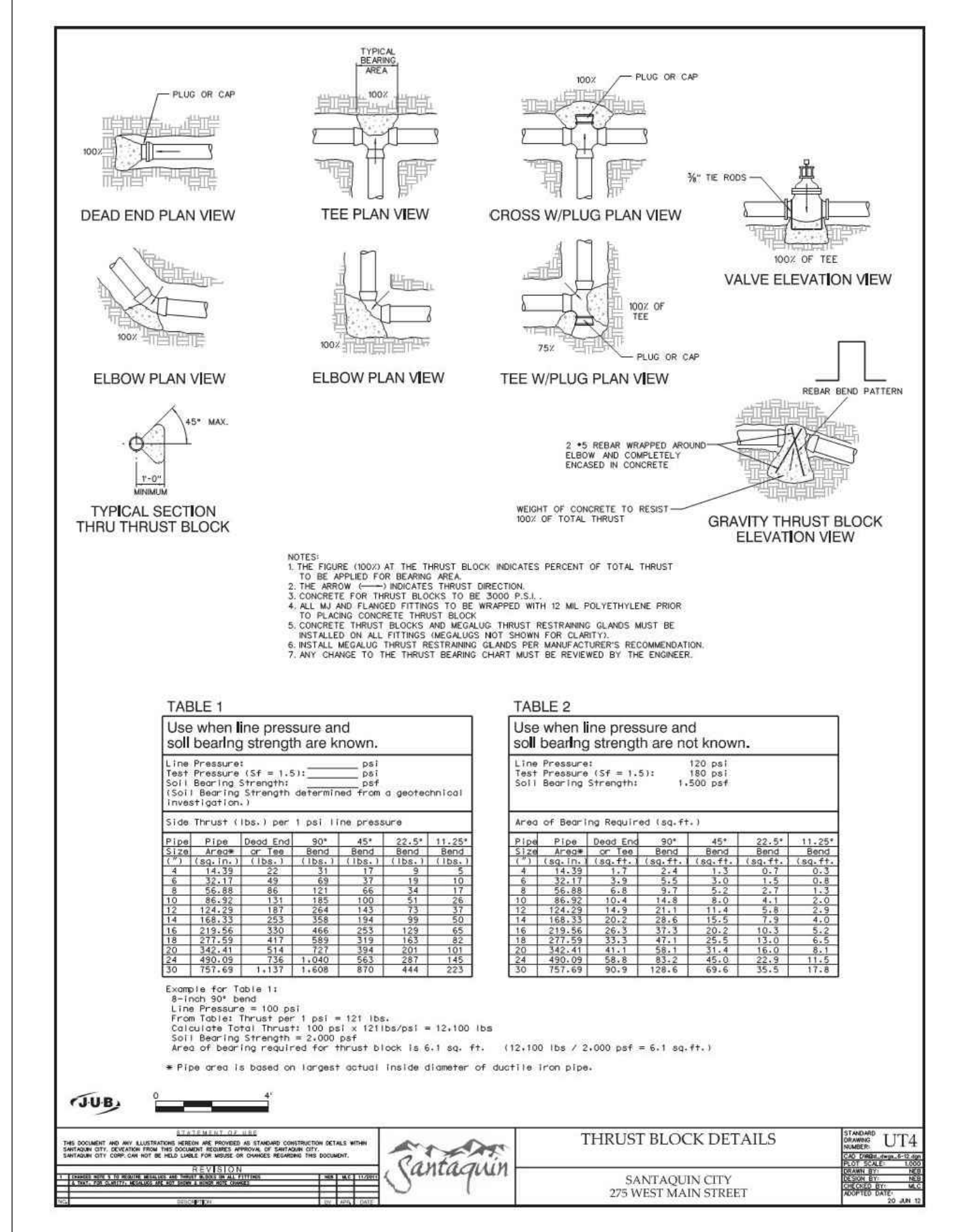
Curb Inlet with Single Grate

Not to Scale

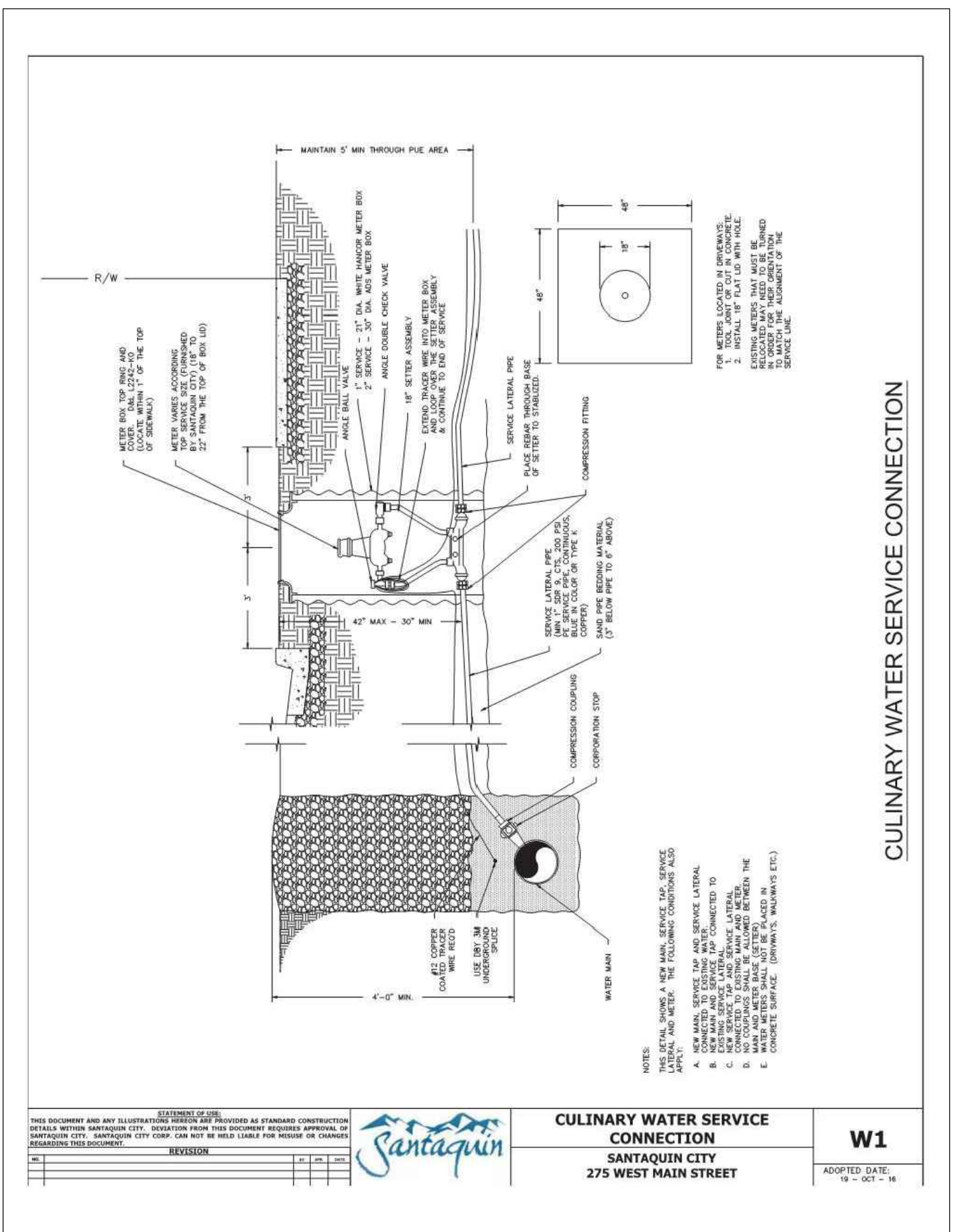




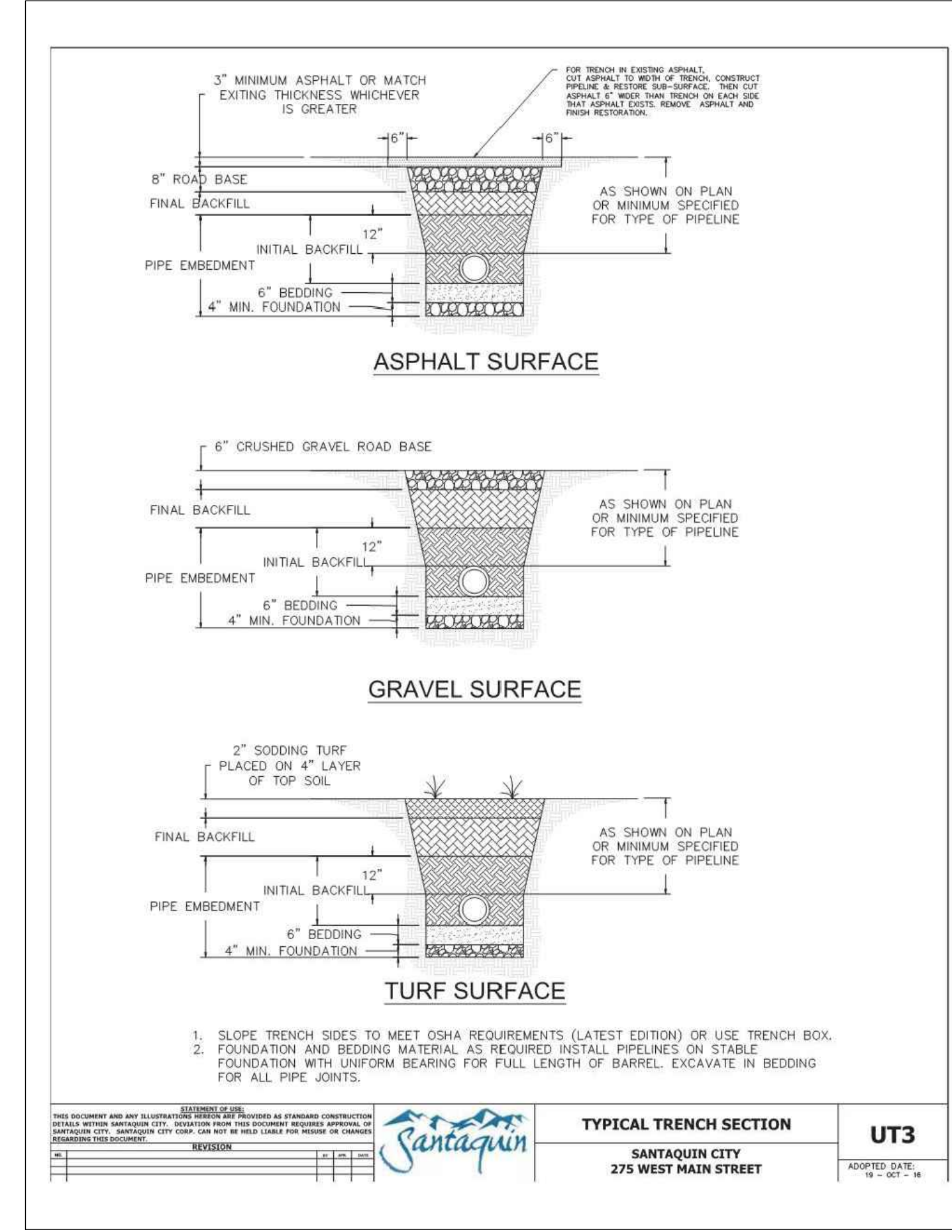
18 Santaquin City Std. Dwg. W2 Fire Hydrant & Water Valve Not to Scale



16 Santaquin City Std. Dwg. UT4 Thrust Block Details Not to Scale



17 Santaquin City Std. Dwg. W1 Culinary Water Service Connection Not to Scale



15 Santaquin City Std. Dwg. UT3 Typical Trench Section Not to Scale

Designed by: SY
Drafted by: JD
Client Name:
Ridley's Family Markets

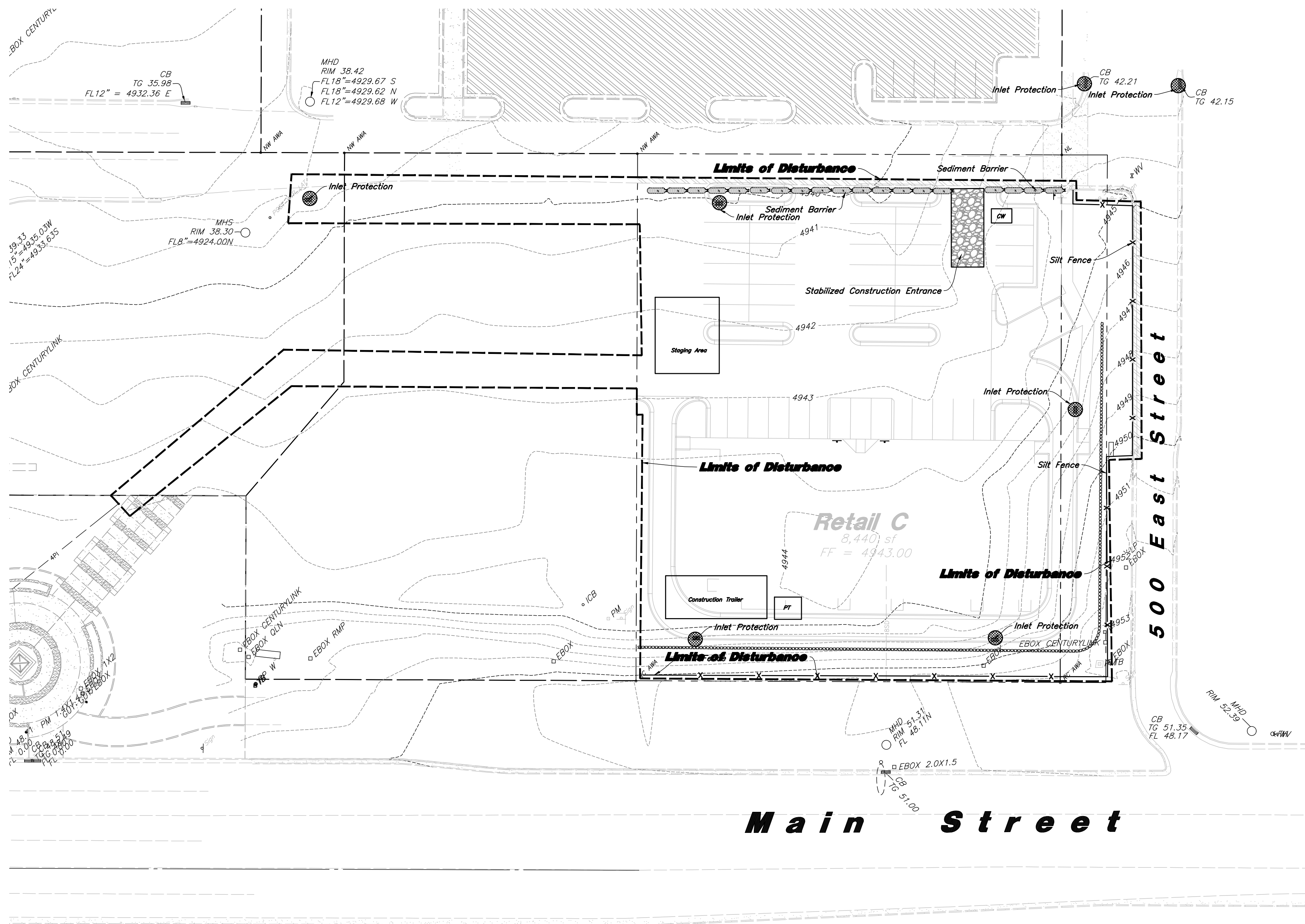
20-112 DT

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
(801) 521-8529 - awahengrading.net

Details
Ridley's Santaquin - Retail C
No. 795283
400 East and Main Street
Santaquin, UT

REGISTERED PROFESSIONAL ENGINEER
Shaun Young
9/11/20
STATE OF UTAH

11 Sep, 2020
SHEET NO.
C4.3



Legend

Place Inlet Protection at all Inlet Locations to prevent boxes from silting.

Silt Fence

Limit of Disturbance

Construction Entrance / Truck Wash (50'x24' Min.)

Concrete Washout Area

Portable Toilet

Sediment Barrier

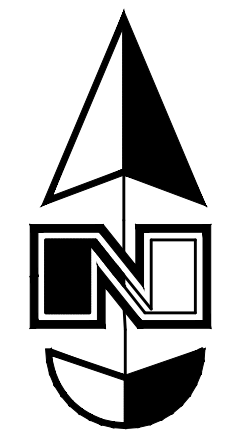
Existing Contour

Existing Spot

Proposed Contour

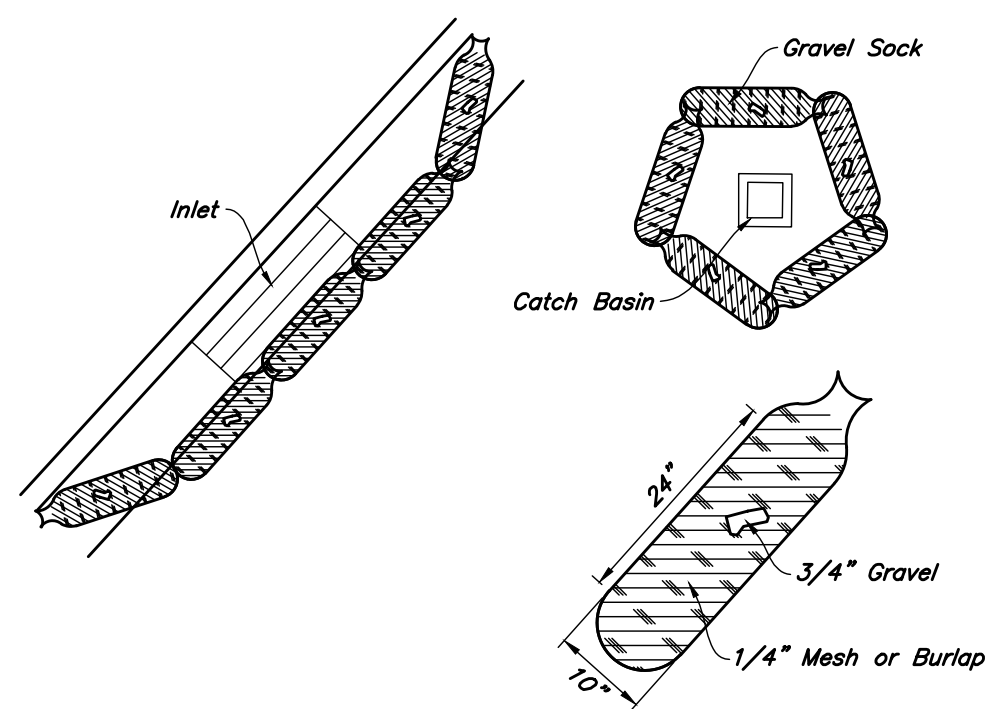


Scale: 1" = 30'

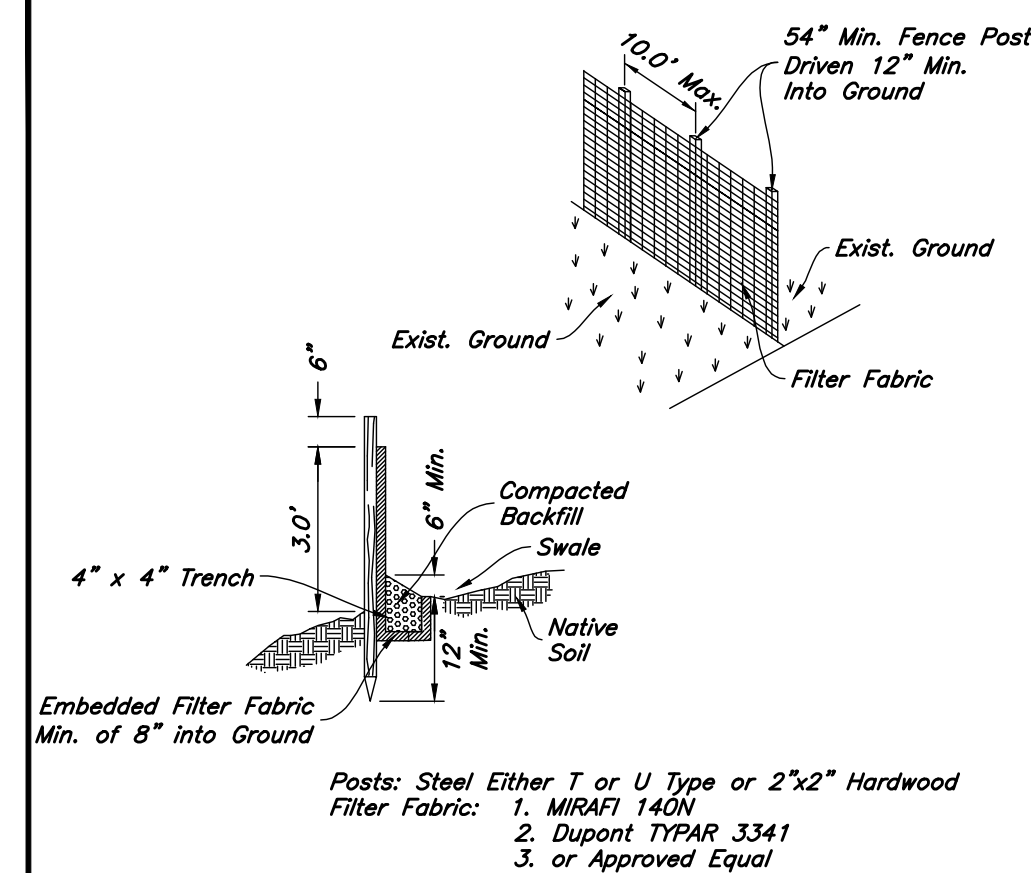


Erosion Control Notes

- Storm water will be discharged into an existing drainage system. Existing Lines shall be inspected prior to Certificate of Occupancy and cleaned if necessary.
- The Storm Water Prevention Plan shall conform to all State Division of Environmental Protection Regulations.
- All Construction equipment will enter thru Designated Construction Entrances.
- Coordinate Entrance locations with the local jurisdiction.
- Inlet Protection Devices and Barriers shall be Repaired or Replaced if they Show Signs of Undermining or Deterioration.
- Silt Fences shall be Repaired to their Original Conditions if Damaged. Sediment shall be Removed from Silt Fences when it Reaches one-half the Height of the Silt Fence.
- The Construction Entrances shall be Maintained in a Condition which will Prevent Tracking or Flow of Mud onto Public Right-of-Way. This may Require Periodic Top Dressing of the Construction Entrances as Conditions Demand.
- All Materials Spilled, Dropped, Washed or Tracked from Vehicles onto Roadways or into Storm Drains must be Removed Immediately.
- Due to the Grade Changes During the Development of the Project, the Contractor shall be Responsible for Adjusting the Erosion Control Measures (Silt Fences, Inlet Protection, Etc...) to Prevent Erosion.
- Contractor shall use Vehicle Tracking Control at all Locations where Vehicles will Enter or Exit the Site. Control Facilities will be Maintained while Construction is in Progress, Moved when Necessary and Removed when the Site is Paved.
- Inlet Protection Devices shall be Installed Immediately upon Individual Inlets becoming Functional.
- This Document is Fluid Allowing for Changes, Modifications, Updates, and Alternatives. It is the Responsibility of the Contractor to Keep Record of all Alterations made to the Erosion Control Measures Implemented for the Project on this Plan and in the Storm Water Pollution Prevention Plan.
- Cover Exposed stockpiles of soils, construction and landscaping materials with heavy plastic sheeting.
- Re-vegetate areas where landscaping has died or not taken hold.
- Divert storm water runoff around disturbed soils with berms or dirt swales.
- Contractor to provide permanent stabilization to any areas disturbed by construction by hydroseeding native vegetation (if not otherwise stabilized).
- Contractor is responsible for obtaining a fugitive dust control permit through the Division of Air Quality. All responsibilities relating to the production of the dust control plan shall be the responsibility of the Contractor.

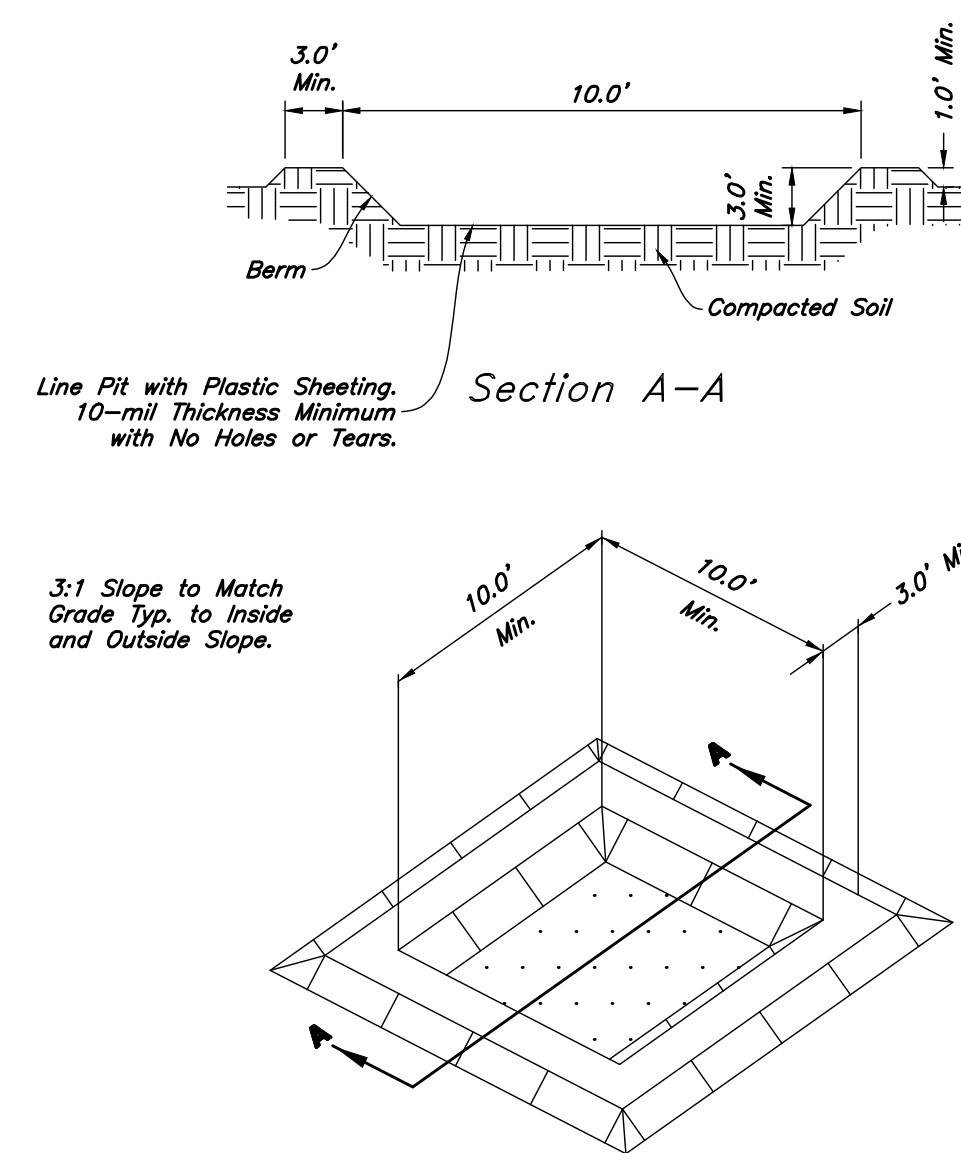


5 Sediment Barrier
Not to Scale

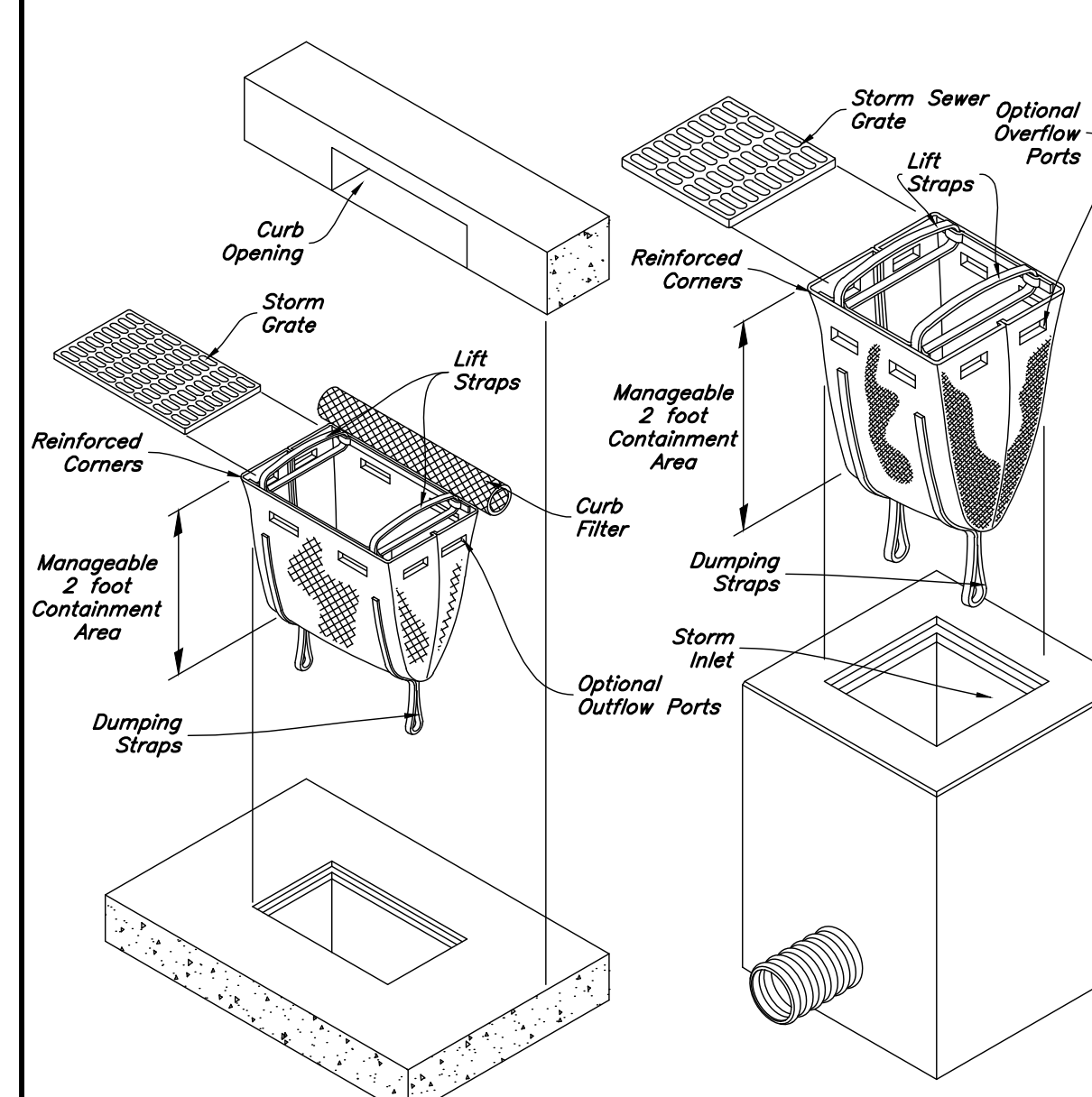


- Notes:
- Filter cloth to be fastened securely to fence posts with wire ties or staples.
 - When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
 - Collected material shall be removed when "bulges" develop in the silt fence.

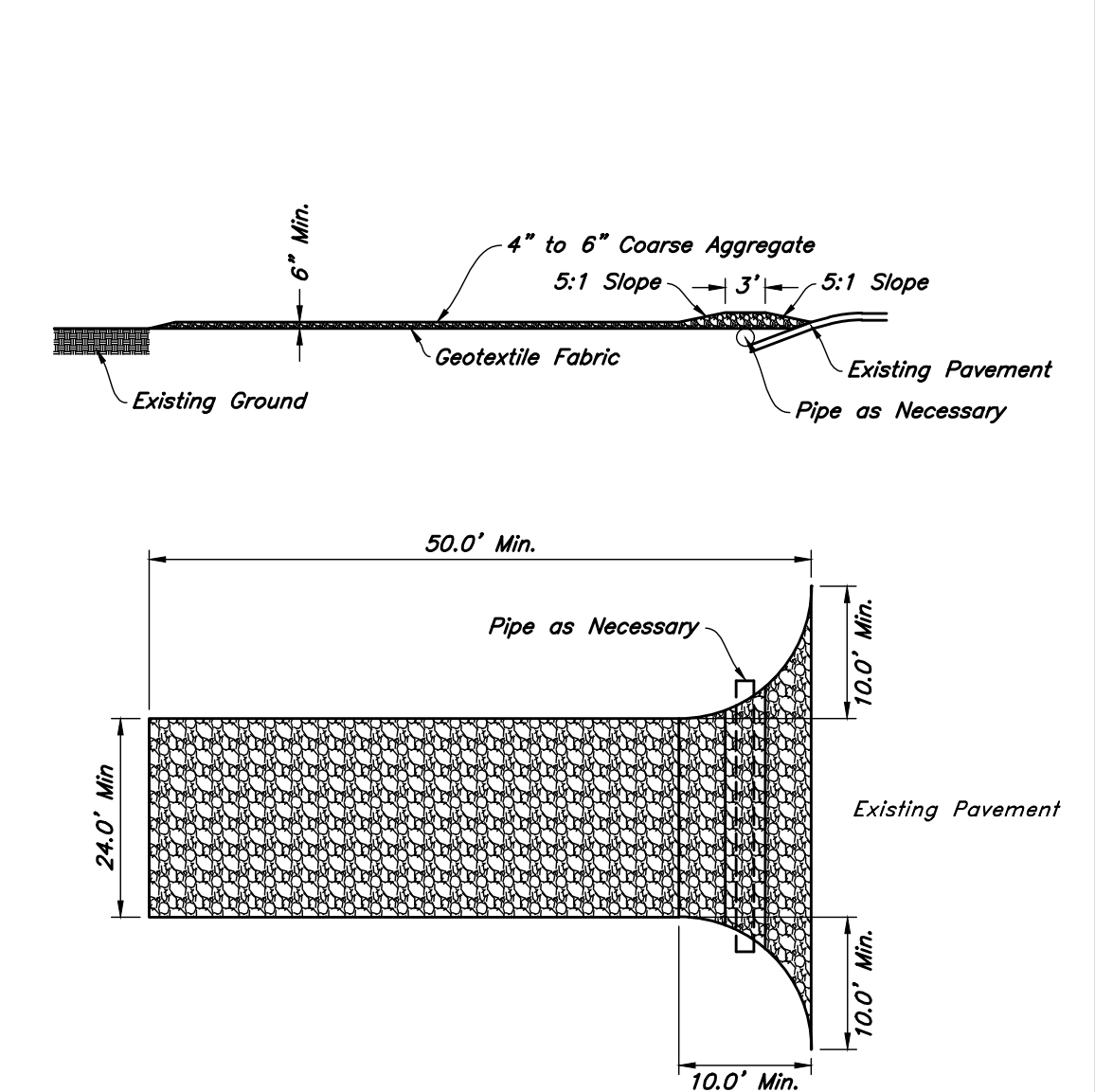
4 Silt Fence Section
Not to Scale



3 Concrete Washout
Not to Scale



2 Dandy Sack Inlet Protection
Not to Scale



1 Stabilized Construction Entrance
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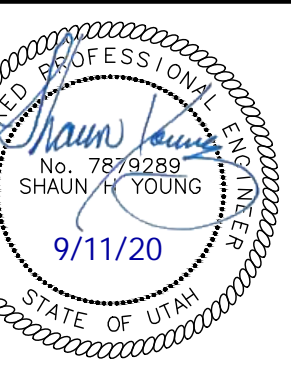
Erosion Control Plan

Ridley's Santaquin - Retail C

400 East and Main Street
Santaquin, UT

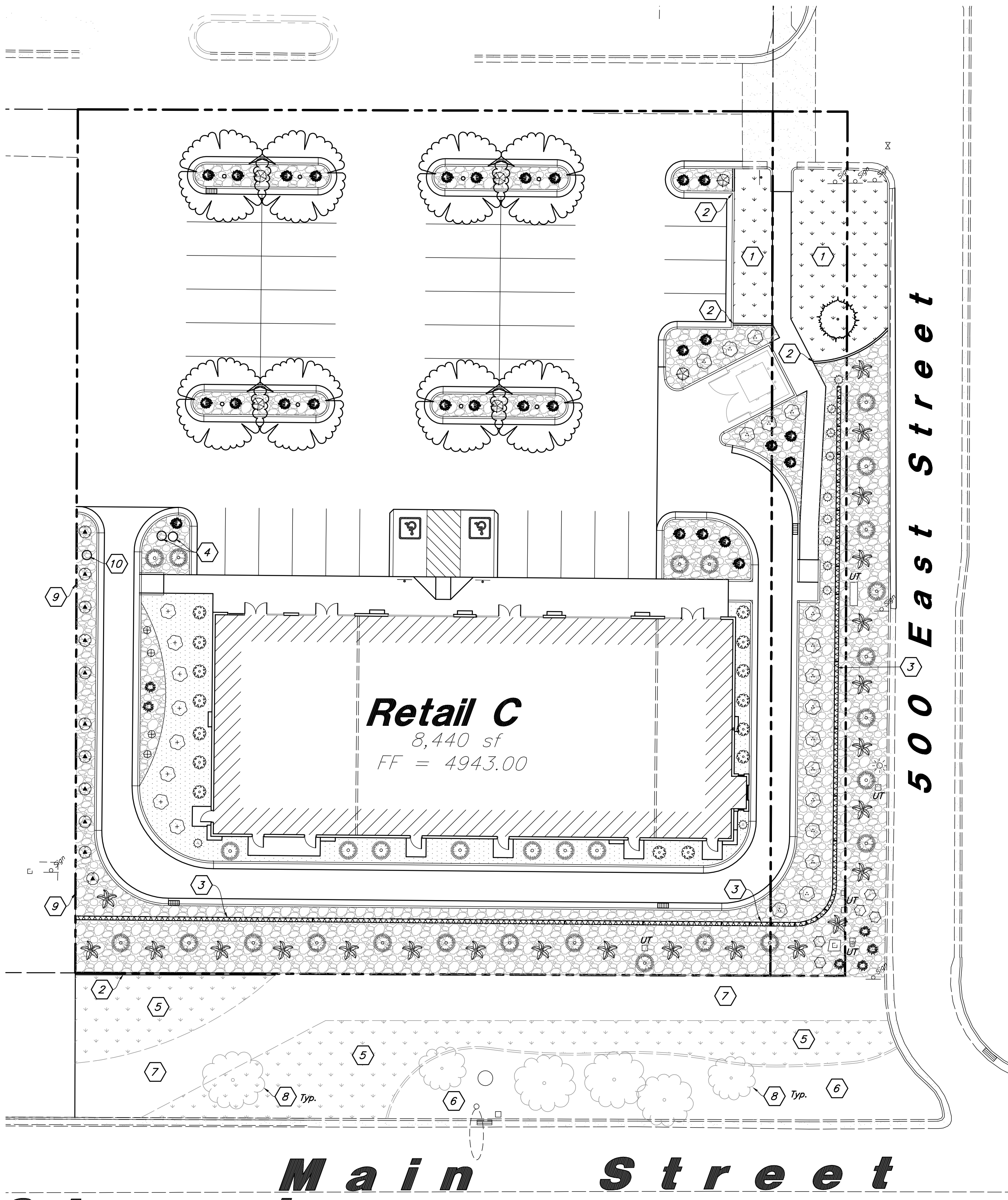
ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
(801) 521-8529 - awhengineering.net

Designed by: SY
Drafted by: JD
Client Name:
Ridley's Family Markets
20-112 EC



11 Sep, 2020

SHEET NO.
C5.1



PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL / COMMON NAME	SIZE	REMARKS
	8	Zelkova serrata 'Musashino' / Musashino Zelkova	2" Cal. / 8-10' Ht.	45' Ht. / 15' Spr.
EVERGREEN TREES	QTY	BOTANICAL / COMMON NAME	SIZE	REMARKS
	1	Picea pungens 'Hoopsii' / Hoopsi Blue Spruce	6-8' Ht.	12' Ht. / 35' Spr.
ORNAMENTAL GRASSES	QTY	BOTANICAL / COMMON NAME	SIZE	REMARKS
	11	Calamagrostis x a. 'Karl Foerster' / Feather Grass	1 gal	48" Ht. / 30" Spr.
	4	Helictotrichon sempervirens 'Sapphire' / Blue Oat Grass	5 gal	30" Ht. / 30" Spr.
DECIDUOUS SHRUB	QTY	BOTANICAL / COMMON NAME	SIZE	REMARKS
	17	Prunus x cistena / Purple Leaf Sand Cherry	5 gal	60" Ht. / 50" Spr.
	8	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	5 gal	20" Ht. / 60" Spr.
	23	Rhus typhina 'Tiger Eyes' / Tiger Eyes Sumac	5 gal	60" Ht. / 60" Spr.
	11	Ribes alpinum 'Green Mound' / Green Mound Alpine Currant	5 gal	36" Ht. / 30" Spr.
	6	Rosa Meiland series 'Red' / Red Meiland Rose	5 gal	24" Ht. / 36" Spr.
	28	Spiraea x bumalda 'Goldflame' / Goldflame Spirea	5 gal	26" Ht. / 26" Spr.
EVERGREEN SHRUB	QTY	BOTANICAL / COMMON NAME	SIZE	REMARKS
	15	Buxus microphylla 'Wintergreen' / Wintergreen Boxwood	5 gal	24" Ht. / 24" Spr.
	30	Juniperus horizontalis 'Bar Harbor' / Bar Harbor Creeping Juniper	5 gal	8" Ht. / 48" Spr.
	6	Picea pungens 'Globosa' / Dwarf Globe Blue Spruce	5 gal	30" Ht. / 36" Spr.
	5	Pinus mugo 'Slowmound' / Mugo Pine	5 gal	30" Ht. / 36" Spr.
LAWN	QTY	BOTANICAL / COMMON NAME	TYPE	REMARKS
	1,654 sf	Poa pratensis / Kentucky Bluegrass Blend	sod	Detail: 4/L3.1

MATERIAL SCHEDULE

Symbol	Comments	Detail
	Decorative Stone #1 - Install a (3) Three Inch Depth over Dewitt Pro5 Weed Barrier; Stone Shall be Used in Shrub Planters Where Shown on Plan; Stone Shall be Washed Prior to Installation; Stone Shall be 1 1/2" Dia. Crushed, Fractured Talon's Cove (Gray Color) Stone from Utah Landscape Rock (435-250-3851)	Detail: 4/L3.1
	Decorative Stone #2 - Install a (6) Six Inch Depth over Dewitt Pro5 Weed Barrier; Stone Shall be Used in Shrub Planters Where Shown on Plan; Stone Shall be Washed Prior to Installation; Stone Shall be 2-4" Dia. Crushed, Fractured Stone from Stoker Parson Copper Canyon Pit (385-239-0804); Stone Shall Match Stone Color Stone; Interlock and Secure Stone on Steep Slopes	Detail: 4/L3.1
	4" x 6" Landscape Concrete Curbing - Install Flush to all Concrete Edges between Lawn and Planting Areas; Curbing Shall be Continuous; Adjust Curbing as Needed to Avoid Existing and New Utilities.	Detail: 4/L3.1

Scale: 1" = 20'



Landscape Data

Site Area = 47,685 s.f. (1.09 ac.)

Landscape Area Required = 4,769 s.f. (10%)

Landscape Area Provided = 11,234 s.f. s.f. (24%)

Store Parking Provided = 41 stalls

Parking Area = 15,944 s.f.

Landscape Parking Required = 1,594 s.f. (10%)

Landscape Parking Provided = 1,754 s.f. (11%)

Landscape Notes:

- All Landscape Material Shall be Fully Irrigated by an Automatic Irrigation System. Drip for Shrub Areas and Spray for Lawn Areas. See Irrigation Sheets L2.1 for Layout and Sheet L3.1 for Details.
- Adjust Landscape Material as Needed to Allow Access to all New and Existing Utilities. Irrigation Components Shall be Spaced Between Plant Material to Allow Easy Access for Maintenance.
- All Areas Disturbed by Construction Shall be Landscaped and Not Left Undone.
- No Edging Shall be Used Between Different Stone. Provide a Nice Clean Smooth Flowing Defined Line Between Stone.

Landscape Keynotes

- Install New Lawn
- Install Landscape Concrete Curbing
- New Retaining Wall - See Civil Plans
- New Water Meters - See Utility Plan
- Existing Lawn
- Existing Shrub Planter
- Existing Gravel Maintenance Road
- Existing Street Tree
- Provide Nice Clean Edge Between New Landscape and Undeveloped Lot
- Irrigation Water Meter and Connection - See Irrigation Plan for More Detail
- UT - Existing/New Utility Box or Manhole

General Landscape Notes:

- Plant material quantities are provided for bidding purposes only. It is the contractors responsibility to verify all quantities listed on the plans and the availability of all plant materials and their specified sizes prior to submitting a bid. The contractor must notify the Landscape Architect prior to submitting a bid if the contractor determines a quantity deficiency or availability problem with specified material. The contractor shall provide sufficient quantities of plants equal to the symbol count or to fill the area shown on the plan using the specified spacing. Plans take precedence over plant schedule quantities.
- Contractor shall call Blue Stake before excavation for plant material.
- Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. It shall be the responsibility of the contractor to protect all utility lines during the construction period, and repair any and all damage to utilities, structures, site appurtenances, etc. which occurs as a result of the landscape construction.
- The landscape contractor shall examine the site conditions under which the work is to be performed and notify the general contractor in writing of unsatisfactory conditions. Do not proceed until conditions have been corrected.
- The contractor shall provide all materials, labor and equipment required for the proper completion of all landscape work as specified and shown on the drawings.
- See civil and architectural drawings for all structures, hardscape, grading, and drainage information.
- Contractor safety and cleanup must meet OSHA standards at all times. All contractors must have adequate liability, personnel injury and property damage insurance. Clean-up must be performed daily, and all hardscape areas must be washed free of dirt and mud on final cleanup. Construction must occur in a timely manner.
- All new plant material shall conform to the minimum guidelines established by the American Standard for Nursery Stock Published by the American Association of Nurseryman, Inc. In addition, all new plant material shall be of specimen quality.
- The Owner/Landscape Architect has the right to reject any and all plant material not conforming to the plans and specifications.
- Any proposed substitutions of plant species shall be made with plants of equivalent overall form, height, branching habit, flower, leaf, color, fruit and culture only as approved by the Landscape Architect.

- It is the contractors responsibility to furnish all plant materials free of pests or plant diseases. It is the contractor's obligation to maintain and warranty all plant materials.
- All existing and relocated trees shall be properly protected. Trees damaged during construction shall be replaced at no cost to the owner.
- Plant names are abbreviated on the drawings, see plant schedule for symbols, abbreviations, botanical, common names, sizes, estimated quantities and remarks.
- No grading or soil placement shall be undertaken when soils are wet or frozen.
- Existing topsoil to be stripped and stockpiled for landscape use. Contractor shall verify existing topsoil amounts and quality with the general contractor. The landscape contractor shall perform a soil test on existing and imported topsoil and amend per soil test recommendations. Soil test to be done by certified soil testing agency. Provide new imported topsoil as needed from a local source. Imported topsoil must be a premium quality dark sandy loam, free of rocks, clods, roots, and plant matter. Topsoil to be installed in all landscaping areas.
- Prior to placement of topsoil in all landscaping areas, all subgrade areas shall be loosened by scarifying the soil to a depth of 6 inches in order to create a transition layer between existing and new soils.
- Provide a 12" depth of stockpiled or imported topsoil in parking islands and an 8 inch depth in all other shrub areas.
- All plant material holes shall be dug twice the diameter of the rootball and 6 inches deeper. Excavated material shall be removed from the site and replaced with plant backfill mixture. The top of the root balls, shall be planted flush with the finish grade.
- Plant backfill mix shall be composed of 3 parts topsoil to 1 part soil pep, and shall be mixed at the planting hole. Deep water all plant material immediately after planting. Add backfill mixture to depressions as needed.

- All new plants to be balled and burlapped or container grown, unless otherwise noted on plant schedule. Container grown trees shall have the container cut and removed. Trees in ball and burlap shall have the strings, burlap or plastic cut and pulled away from the trunk exposing 1/3 of the root ball. For trees in wire baskets, cut and remove the wire baskets.
- Upon completion of planting operations, all landscape areas with trees, shrubs, and perennials, shall receive specified stone over Dewitt Pro5 Weed Barrier or equal. Stone shall be evenly spread on a carefully prepared grade free of weeds. The top of stone should be slightly below finish grade and concrete areas.
- All deciduous trees shall be double staked per tree staking detail. It is the contractors responsibility to remove tree staking in a timely manner once staked trees have taken root. Deciduous tree ties to be V.I.T. Cinche Ties #CT32.
- Install landscape concrete curbing between lawn and planting areas. Curbing shall be installed level and uniform and shall match top finish grades of concrete walks and curbs. See landscape concrete curbing detail.
- Provide a 4 inch depth of stockpiled or imported topsoil in all lawn areas.
- Sod must be premium quality, evenly cut, established, healthy, weed and disease free, and from an approved source.
- All lawn areas to have uniform grades by float raking. Prior to laying sod, apply a starter fertilizer at a rate recommended by the manufacturer. Sod must be laid with no gaps between pieces on a carefully prepared topsoil layer. Sod to be slightly below finish grade and concrete walks and curbing. The laid sod must be immediately watered after installation. Any burned areas will require replacement. Adjust sprinkler system to assure healthy green survival of the sod without water waste.
- The contractor shall comply with all warranties and guarantees set forth by the Owner, and in no case shall that period be less than one year following the date of completion and final acceptance.



Know what's below.
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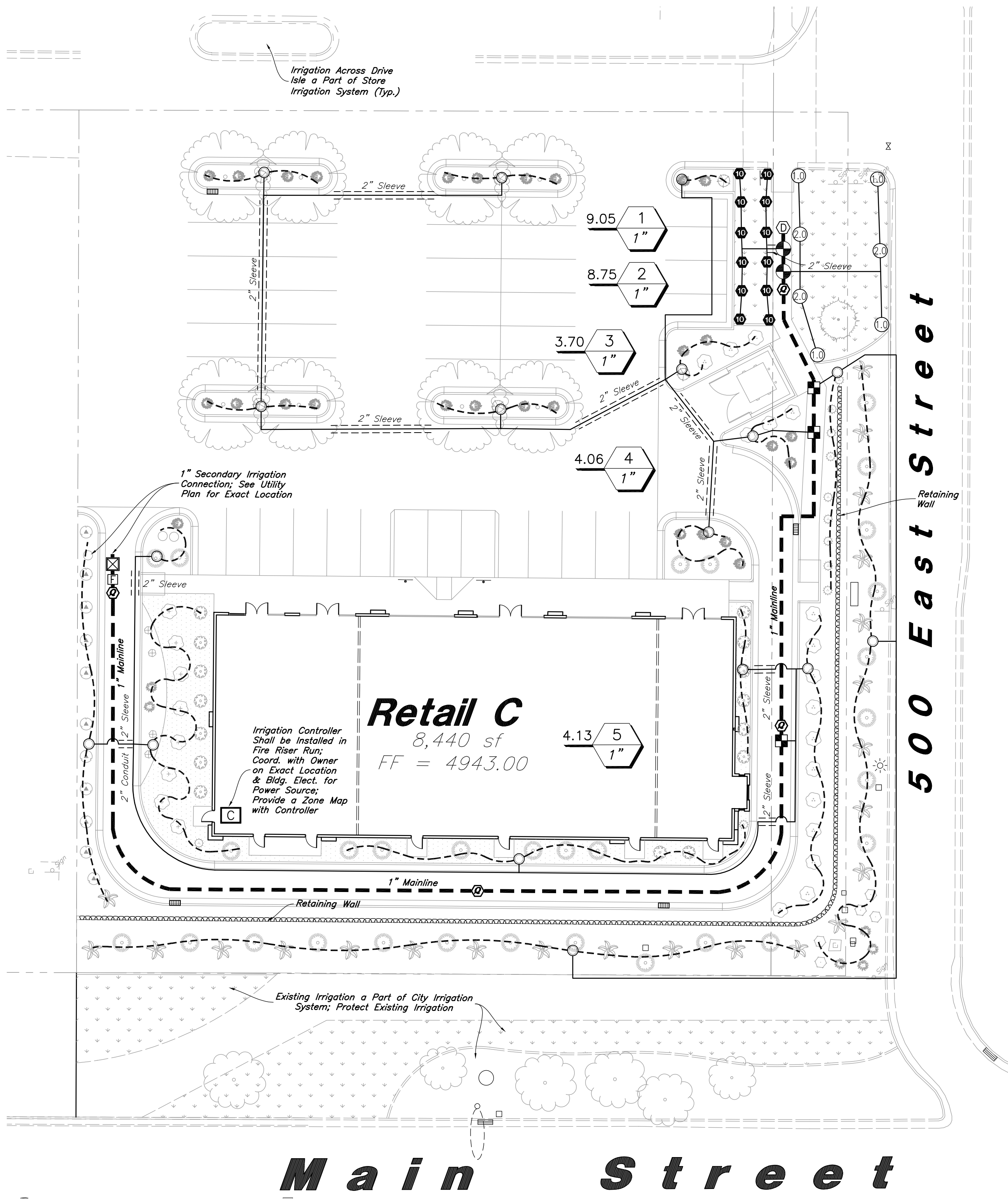
Landscape Plan
Ridley's Santaquin - Retail C
400 East and Main Street
Santaquin, UT



11 Sep, 2020

SHEET NO.

L1.1



General Irrigation Notes:

- Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the work. It shall be the responsibility of the contractor to protect all utility lines during the construction period, and repair any and all damage to utilities, structures, site appurtenances, etc. which occurs as a result of the landscape construction.
- The irrigation contractor shall examine the site conditions under which the work is to be performed and notify the general contractor in writing of unsatisfactory conditions. Do not proceed until conditions have been corrected.
- The contractor shall provide all materials, labor and equipment required for the proper completion of all irrigation work as specified and shown on the drawings.
- See civil and architectural drawings for all structures, hardscape, grading, and drainage information.
- Contractor safety and cleanup must meet OSHA standards at all times. All contractors must have adequate liability, personnel injury and property damage insurance. Clean-up must be performed daily, and all hardscape areas must be washed free of dirt and mud on final cleanup. Construction must occur in a timely manner.
- The Owner/Landscape Architect has the right to reject any and all irrigation material not conforming to the plans and specifications.
- The contractor shall install all irrigation material per plan, notes and details.
- Irrigation system components must be premium quality only and installed to manufactures requirements and specifications. The contractor is responsible for checking state and local laws for all specified materials and workmanship. Substitutions must be approved by landscape architect. Provide owner and maintenance personnel with instruction manual and all products data to operate, check, winterize, repair, and adjust system.
- Irrigation system guarantee for all materials and workmanship shall be one year from the time of store opening or final project acceptance (whichever is longer). Guarantee will include, but is not limited to winterizing, spring activation, repair, trench setting, backfilling depressions, and repairing freeze damage. Contractor must contact Landscape Architect to schedule pre and post guarantee inspection meetings. Failure to do so will mean the official guarantee period has not been activated or de-activated.
- Irrigation system check must be done before the system is backfilled. Irrigation mainline and each control valve section must be flushed and pressure checked. Assure the complete system has no documented problems and full head to head coverage with adequate pressure for system operation. Adjust system to avoid spray on building, hardscape, and adjacent property. Any problems or plan discrepancies must be reported to the landscape architect.
- Irrigation laterals must be schedule 40 P.V.C. with schedule 40 fittings. one (1) inch minimum size. Solvent weld all joints as per manufactures specifications for measured static p.s.i. Teflon tape all threaded fittings. The minimum depth of lateral lines shall be twelve (12) inches. Adapt system to manual compression air blowout.
- Irrigation mainline that are 2" and smaller mainlines shall be schedule 40 PVC pipe with schedule 40 fittings. Solvent weld all joints as per manufactures specifications for measured static pressure. Use teflon tape on all threaded joints. Line depth must be twenty-four (24) inches minimum.
- Install dielectric fittings whenever dissimilar metals are joined.
- Design locations are approximate. Make minor adjustments necessary to avoid plantings and obstructions such as signs and light standards. Maintain 100(%) percent irrigation coverage of areas indicated.
- Controller valves to be grouped together wherever possible. Install valve boxes with long side perpendicular to walk, curb, lawn, building or landscape features. Valve boxes to conform with finish grades.
- Control valve wire shall be #14 single conductor: white for common wire, red for hot wire and blue for the spare wire. Provide (2) two spare wire that runs the length of the mainline and to the controller. All wiring shall be UF-UL rated. All connections shall be made with water tight connectors (DBR/Y or equivalent) and contained in control valve boxes. Provide 36" extra wire length at each remote control valve in valve box. Install control wiring with main service line where possible. Provide slack in control wires at all changes in direction.
- Control valve size, type, quantity, and location to be approved by landscape architect. Install in heavy duty plastic vandal proof box. Size boxes according to valve type and size for ease of maintenance and repair. Install one (1) cubic feet of pea gravel for sump in base of boxes. Boxes to be Carson Brooks or equal.
- Quick couplers shall be a Rain Bird 44-NP (Non-Potable Cover) with a 1 inch Lasco swing joint assembly. Support with rebar in each retainer lug. Install where shown on the plans.
- Irrigation system backfill must occur only after system check is completed as specified. Use only rock free clean fill around pipes, valves, drains, or any irrigation system components. Water settle all trenches and excavations.
- All irrigation pipe running through walls, under sidewalk, asphalt, or other hard surface shall be sleeved prior to paving. It is the irrigation contractors responsibility to coordinate sleeving with concrete and pavement contractors. Sleeves will be schedule 40 P.V.C. The depth for mainline sleeves shall be twenty-eight (28) inches minimum. Depth for lateral sleeves shall be sixteen (16) inches minimum. Sleeves shall be a minimum of two sizes larger than the pipe to be sleeved. All valve wiring shall be contained in separate sleeving.
- Plans are diagrammatic and approximate due to scale. where possible, all piping is to be installed within the planting areas. No tees, elbows, or changes in direction shall occur under hardscape.
- It is the contractors responsibility to verify all quantities based upon the plan prior to completion of a construction cost estimate.
- The irrigation contractor shall flush and adjust all sprinkler heads for optimum performance and to prevent possible overspray onto walks, roadways, and/or buildings as much as possible. This shall include selecting the best degree of arc to fit the site and to throttle the flow control of each valve to obtain the optimum operating pressure for each system. All mainlines shall be flushed prior to the installation of irrigation heads.
- All sprinkler heads shall be set perpendicular to finish grade of the areas to be irrigated and shall be installed 6-8" from buildings walls, or within 4" of pavement, curbs, or header edges.
- Drip system piping shall consist of a rigid schedule 40 PVC pipe distribution system connecting drip irrigated planter areas. Poly tubing or drip line shall be run off the rigid PVC in each planting area or island with a PVC to poly tubing adapter. No poly tubing shall run under pavement.
- Electrical power source at the controller location shall be provided by electrical contractor. Contractor shall verify location of controller prior to installation with owner.
- Provide and install all manufacturer's recommended surge and lighting protection equipment on all controllers.
- All lines shall slope to manual drains (see details). If field conditions necessitate additional drains, these drains shall be installed for complete drainage of the entire system. Provide a gravel sump under each drain. All drains shall be a minimum of 6" below grade.
- Upon completion and approval of irrigation system, irrigation contractor to provide the owner with two sets of drawings indicating actual location of piping, valves, sprinkler heads, wiring, and zones.
- An irrigation zone map shall be provided in a protective jacket and be kept with the main irrigation controller. The map shall show all approved irrigation and include all zone valve locations.
- It shall be the responsibility of the sprinkler contractor to demonstrate to the Owner the proper winterization and start-up procedures for the entire system prior to final payment.

IRRIGATION SCHEDULE

Sprayheads / Rotors

Symbol	Manufacturer/Model #	Description	Notes	Detail
	Rain Bird 1804	4" Pop-Up Sprayhead with Adjustable Nozzle	Adjust Radius Reduction Screws as Needed to Achieve Appropriate Radii Coverages	13/L3.1
	Rain Bird 3504-PC	4" Pop-Up Rotor with Adjustable Nozzle	Adjust Radius Reduction Screws as Needed to Achieve Appropriate Radii Coverages	13/L3.1

Valves

	Rain Bird 100-PESB	Lawn Remote Control Valve with Scrubber Technology	1 Inch Size; Install in Standard Valve Box with 3" Depth of Gravel over Weed Barrier; Install with Water Proof Wire Connectors	14/L3.1
	Rain Bird XCZ-100-PRB-COM	Drip Remote Control Valve Kit	1 Inch Size; Install in Standard Valve Box with 3" Depth of Gravel over Weed Barrier; Install with Water Proof Wire Connectors	6/L3.1
	Rain Bird 44-NP	Quick Coupler with Non-Potable Cover and Swing Joint	1 Inch Size; Install in 10" Round Valve Box with 3" Depth of Gravel over Weed Barrier	7/L3.1
	Matco-Norca 759	Manual Drain Ball Valve	3/4 Inch Size; Install at End of the Mainline in a 10" Round Valve Box with Weed Barrier and a Gravel Sump	10/L3.1

Drip

	PVC Pipe To Drip Tubing	Provide Connection Fittings	Install 1" Feeder Line To All Drip Areas	11/L3.1
	Rain Bird XBS-075 Rain Bird XQ-100 Rain Bird XB-20PC Rain Bird TS025 Rain Bird DBC-025 Rain Bird MDCFCAP	3/4" Distribution Tubing - Pipe shown on Plan is Schematic; Adjust as Needed Xeri-Bug Emitter (2 Gal/Hr.) - 1 per Perennial, 2 per Shrub/Ornamental Grass, 5 per Tree Tie Down Stake - Tubing to be Staked every 3' Diffuser Bug Cap - Install one per Emitter Removable Flush Cap - Install at the End of Each Line		5&9/L3.1

P.O.C. Components

	Mueller Oriseal Mark II	Stop and Waste Valve	1 Inch Size; Install in 10" Round Valve Box with Weed Barrier and Gravel Sump	16/L3.1
	Amiad Tagline Canister Filter	Secondary Water Filter	1 Inch Size; Filter with 155 Mesh; Install in Regular Size Box with Weed Barrier and 3" Depth of Clean Gravel; Filter Shall be Installed Underground	15/L3.1

Pipes

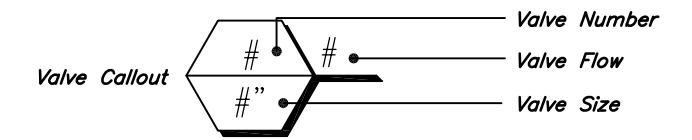
	Schedule 40 PVC	Mainline Pipe	1 Inch Size; See Plan for Locations; Schedule 40 Fittings Shall be Used for Mainline Components	8/L3.1
	Schedule 40 PVC	Lateral Line Pipe	See Plan for Pipe Sizes; Pipes Unmarked Shall be 1 Inch; Minimum Pipe Size Shall be 1 Inch for PVC Pipe	8/L3.1

Controller & Accessories

	Rain Bird ESP4MEI Rain Bird ESP43 Rain Bird LNKWFI	4 Base Station Indoor Controller 3 Station Expansion Module WiFi Module	See Plan for Location of Controller; Coordinate Power Supply With Building Electrical Contractor	12/L3.1
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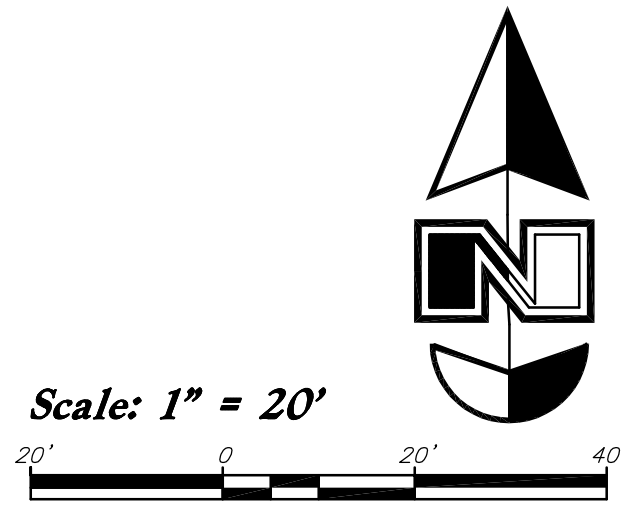
Sleeving

	Schedule 40 PVC	Provide for Irr. Mainlines, Laterals, and Controller Wire Located Under Concrete and Asphalt Paving at Specified Depths	Contractor Shall Coordinate the Installation of Sleeving with the Installation of Concrete Flatwork and Asphalt Paving; All Sleeving Shall be by the Landscape Contractor Unless Otherwise Noted	17/L3.1
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VALVE SCHEDULE

VALVE STATION	VALVE SIZE	IRRIGATION TYPE	FLOW (GPM)	PSI	PSI @ POC	PRECIP. RATE
1	1"	Lawn Area - Turf Spray	9.05	31.95	42.29	1.99 in/h
2	1"	Lawn Area - Turf Rotor	8.75	36.98	46.57	0.85 in/h
3	1"	Shrub Area - Drip Emitters	3.70	33.27	35.06	0.47 in/h
4	1"	Area for Drip Emitters	4.06	33.54	35.62	0.37 in/h
5	1"	Area for Drip Emitters	4.13	33.74	35.37	0.56 in/h



General Irrigation Note

Main Service Line & Other Irrigation Components Are Shown in Paved Or Hardscape Surfaced For Clarity Purposes ONLY! Install All Irrigation Components within Landscaped Areas.

Irrigation Notes

- See Sheet L1.1 for Plant Layout and Sheet L3.1 for Planting and Irrigation Details.
- The City Reported a Static Pressure Range of 80-90 psi in the Area. Static Pressure of 80 psi. was Used. Irrigation System was Designed for a Minimum of 47 psi.

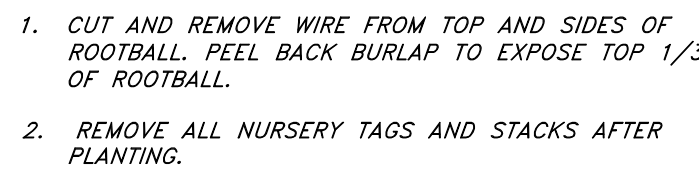
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Irrigation Plan
Ridley's Santaquin - Retail C
400 East and Main Street
Santaquin, UT

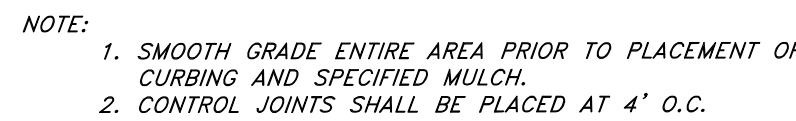
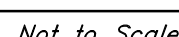
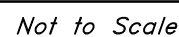
State of Utah
Professional Seal
Jared R. Manach
No. 7740426-5300
09/17/2020
Landscape Architect

11 Sep, 2020
SHEET NO.
L2.1

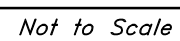
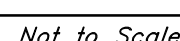
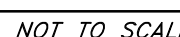
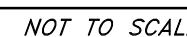
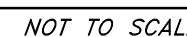
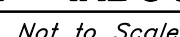
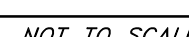
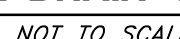
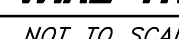
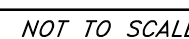
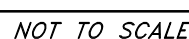
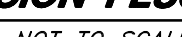




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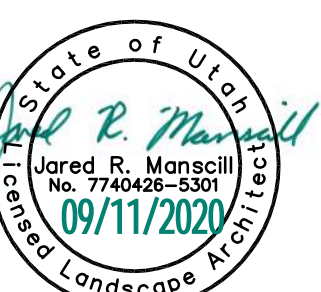
NOTE:

1. ALL IRRIGATION SLEEVES TO BE SCH. 40 PVC PIPE.
2. ALL SLEEVES SHALL BE TWICE THE NOMINAL SIZE OF THE PIPE WITHIN.
3. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
4. SLEEVE TO BE RUN UNDER PAVEMENT AND EXTEND A MIN. OF 18" PAST EDGE OF PAVEMENT. END OF SLEEVE TO BE CAPPED AND MARKED.



ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116

Ridley's Santaquin - Retail C
400 East and Main Street



11 Sep, 2020

ET NO.

L3.1



ROOF LEGEND

NOTE:

- CONTRACTOR RESPONSIBLE TO PATCH, REPAIR, SEAL AND FLASH ALL ROOF PENETRATIONS, INCLUDING BUT NOT LIMITED TO ELECTRICAL, PLUMBING, MECHANICAL, REFRIGERATION STRUCTURAL AND SIGNAGE PENETRATIONS.
- ALL ROOF TOP EQUIPMENT TO BE A MINIMUM OF 10'-0" FROM ANY ROOF EDGE.
- REFER TO DETAILS 7, 14, 15 AND 16 ON SHEET A0.2 FOR TYPICAL FLASHING DETAILS.
- MAINTAIN 1/4" PER FOOT MINIMUM SLOPE AT FLEXIBLE MEMBRANE ROOF.

RD/ORD: ROOF DRAIN AND SECONDARY ROOF DRAIN. RE: 15/A0.2

CRICKET OF TAPERED RIGID INSULATION CONSTRUCT W/ MIN. POSITIVE SLOPE OF 1/2" PER FT. AND TO DIMENSIONS INDICATED. AT SMALLER CRICKETS WHERE DIMENSIONS ARE NOT INDICATED MAKE WIDTH EQUAL TO LENGTH. PROVIDE ON UPSIDE SLOPE OF ALL EQUIPMENT CURBS.

RTU: ROOF TOP UNIT, SEE DETAILS 16/A0.2 FOR SITE BUILT PLATFORMS. REFER TO MECHANICAL DRAWINGS FOR PREFABRICATED CURBS. PROVIDE STEEL FRAME @ OPENINGS AND UNDER CURBS, SEE STRUCTURAL DRAWINGS.

FLUE PENETRATION SEE DET. 15/A0.2

EF: EXHAUST FAN SEE DET. 16/A0.2. PROVIDE CURB FOR EQUIPMENT AT ALL EXHAUST FAN LOCATIONS.

30" X 36" ROOF HATCH. BILCO OR APPROVED EQUAL

SCOPE OF WORK NOTES

- ALL GYP. IS TYPE "X" U.N.O.
- PROVIDE ACOUSTICAL JOINT SEALANTS AT WALL TO WALL INTERSECTIONS, WALL TO FLOOR INTERSECTIONS AND ALL PENETRATIONS IN WALL TYPES SHOWN WITH ACOUSTICAL BATT INSULATION.
- PROVIDE SEPARATION BARRIER BETWEEN ALL DISSIMILAR METALS, TYP.
- REFER TO EXTERIOR ELEVATIONS FOR EXTERIOR FINISH MATERIAL SPECIFICATIONS. REFER TO INTERIOR ELEVATIONS AND INTERIOR FINISH SCHEDULE FOR INTERIOR FINISH MATERIAL SPECIFICATIONS.
- PROVIDE METAL STUD DEFLECTION TRACK AT ALL NON-LOAD BEARING WALLS THAT EXTEND TO B.O. OF ROOF STRUCTURE OR ROOF DECK, RE: STRUCTURAL AND 6/A7.2.
- PROVIDE 4" CONCRETE SLAB OVER 4" GRANULAR DRAINAGE FILL OVER 10 MIL. VAPOR BARRIER. RE: STRUCTURAL. REFER TO FLOOR PLAN FOR AREAS WHERE NO CONCRETE OCCURS, PROVIDE GRANULAR FILL AND 10 MIL. VAPOR BARRIER IN THESE LOCATIONS.
- PROVIDE CONCRETE CONTROL JOINTS PER THE SPECS.

KEYED NOTES

- LINE OF CANOPY ABOVE
- LINE OF SOFFIT ABOVE
- ROOF ACCESS LADDER, RE: 8/A0.2
- ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPES, RE: PLUMBING
- DOWNSPOUT NOZZLE, RE: PLUMBING AND EXTERIOR ELEVATIONS
- GAS METER, RE: PLUMBING AND CIVIL
- ELECTRICAL PANEL, RE: ELECTRICAL
- ELECTRICAL TRANSFORMER PAD, RE: 2/A0.3 AND ELECTRICAL
- ELECTRICAL EQUIPMENT, RE: ELECTRICAL
- FIRE RISER, RE: SPECS.
- FIRE DEPARTMENT CONNECTION
- 6" CONCRETE WALK, RE: CIVIL
- NO CONCRETE SLAB IN THIS AREA
- FUTURE DEMISING WALL, N/C
- COLUMN, RE: STRUCTURAL
- DUMPSTER ENCLOSURE, RE: 12/A5.1
- ELEC EQUIP, RE: ELEC.
- RESTROOM, RE: 15/A5.2

WALL TYPE SCHEDULE

NOTE: REFER TO A2.1 FOR EXTERIOR FINISH AND A6.1 FOR INTERIOR FINISH

A 6" WOOD STUDS @ 16" O.C. WITH 7" EXTERIOR PLYWOOD SHEATHING, RE: STRUCTURAL. SEE EXTERIOR ELEVATIONS FOR EXTERIOR FINISH MATERIALS. PROVIDE FULL BATT INSULATION WITH VAPOR BARRIER.

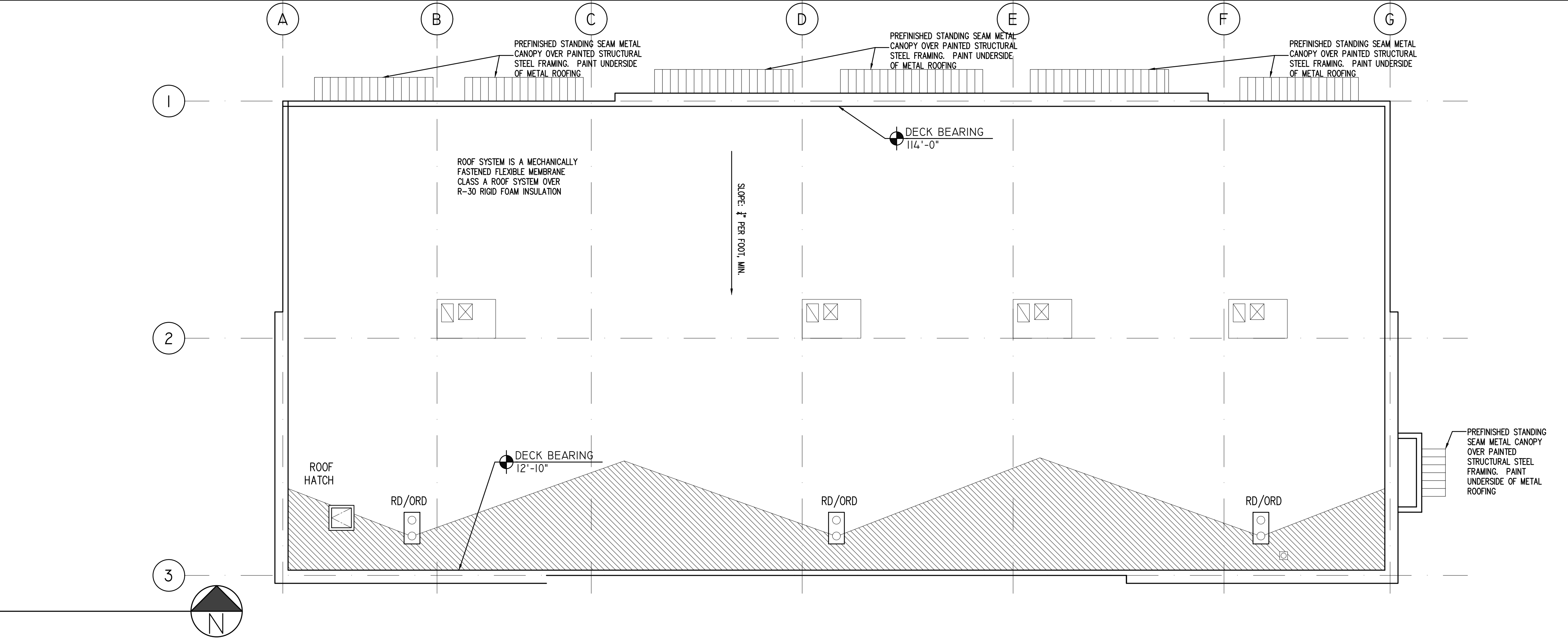
B 6" WOOD STUDS @ 16" O.C. WITH 5/8" TYPE-X GYP. BOARD ON BOTH SIDES. EXTEND STUDS AND GYP. BOARD TO B.O. ROOF DECK ABOVE. PROVIDE FULL SOUND BATT INSULATION.

C 5/8" TYPE-X GYP. BOARD

D 4" WOOD STUDS @ 16" O.C. WITH 5/8" TYPE-X GYP. BOARD ON BOTH SIDES. EXTEND

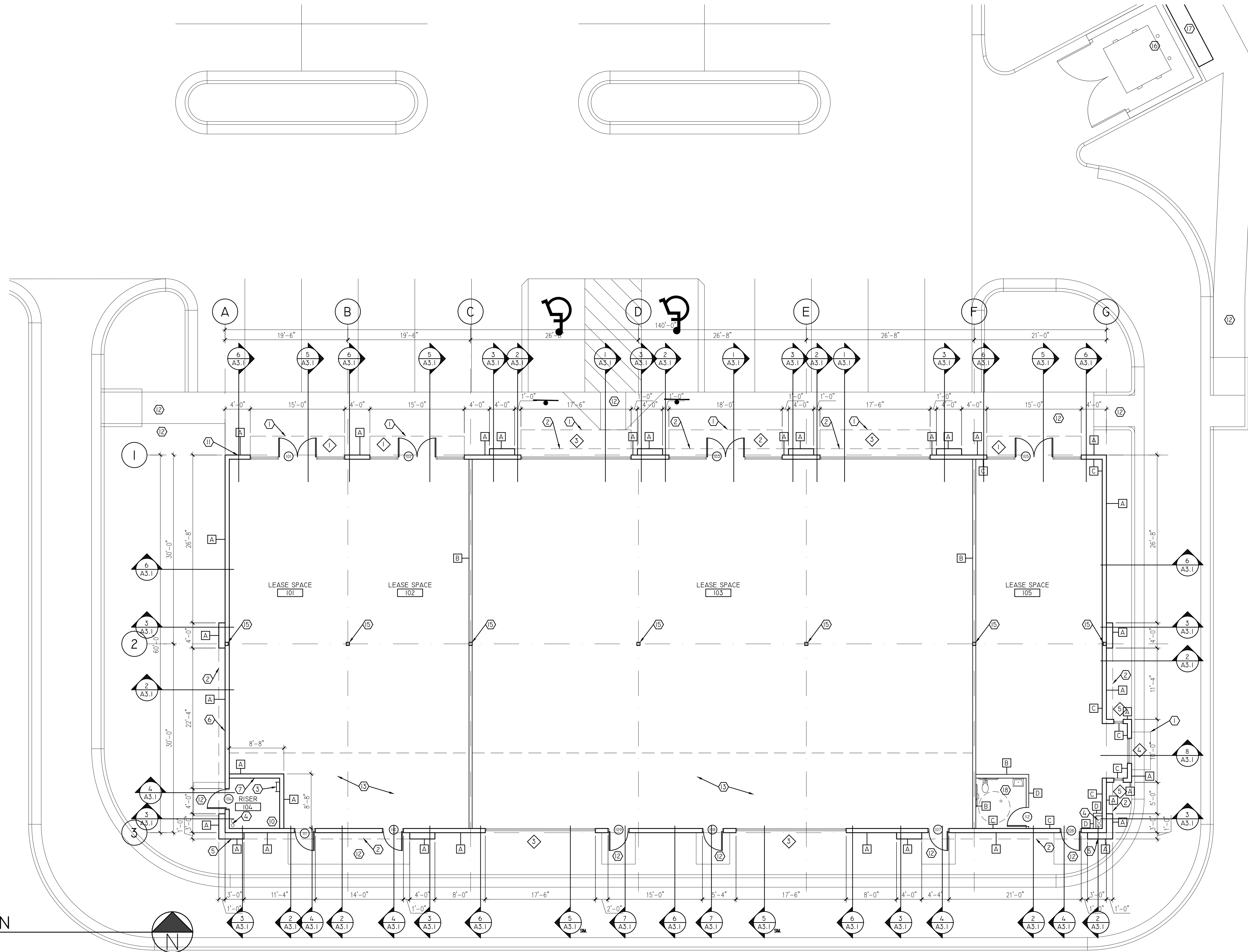
ROOF PLAN

SCALE: 1/8" = 1'-0"



FLOOR PLAN

SCALE: 1/8" = 1'-0"



RETAIL BUILDING
SANTAQUIN PAD C

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2020
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO: 2010.01
CAD DWG FILE NO:

DRAWN BY: KV
DESIGNED BY: KV
DWG TYPE:
ARCHITECTURAL PHASE: PERMIT SET

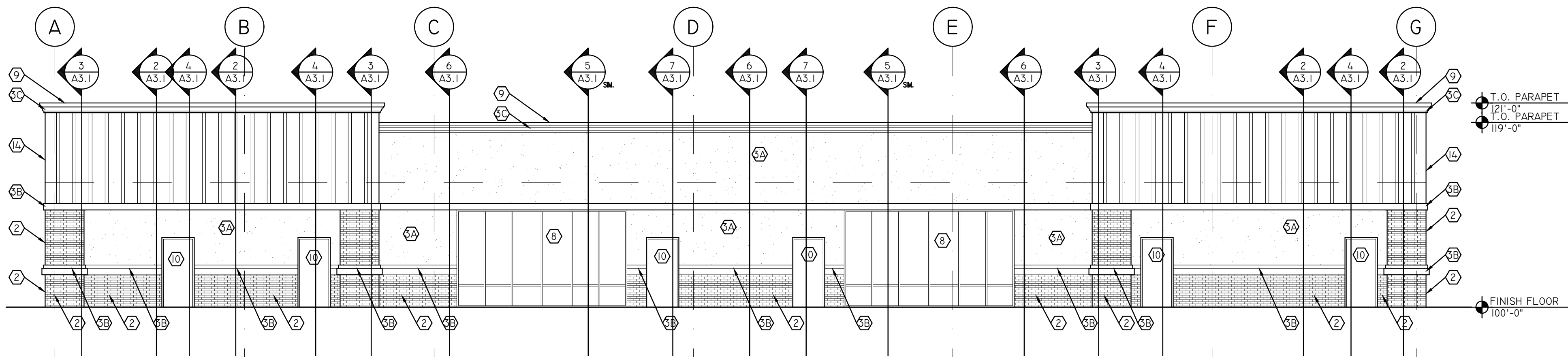
SHEET TITLE

FLOOR PLAN &
ROOF PLAN

A1.1

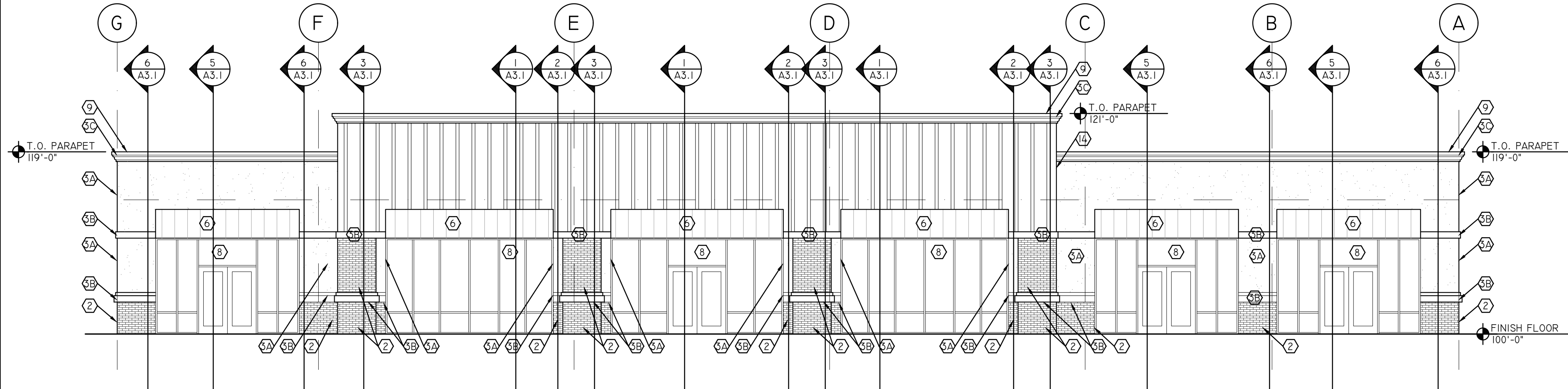
MATERIAL SCHEDULE		
MARK	MATERIAL	FINISH/COLOR
②	THIN BRICK	INTERSTATE - MONTEREY
⑤A	EPS	COLOR 1 - ACCESSIBLE BEIGE SW7036
⑤B	EPS	COLOR 2 - TONY TAUPE SW7038
⑤C	EPS	COLOR 3 - VAN DYKE BROWN SW7041
④	PRECAST CONCRETE SILL	NATURAL
⑤	ARCHITECTURAL FINISH CONCRETE FOUNDATION	NATURAL
⑥	PREFINISHED STRUCTURAL STANDING SEAM METAL ROOFING	DARK BRONZE
⑦	PAINTED STEEL	MATCH DARK BRONZE, VERIFY COLOR
⑧	GLASS AND ALUMINUM STOREFRONT, RE: WINDOW AND DOOR SCHEDULE	DARK BRONZE STOREFRONT WITH CLEAR GLAZING
⑨	PREFINISHED METAL COPING	DARK BRONZE
⑩	PAINTED HM DOOR AND FRAME	MATCH DARK BRONZE, VERIFY COLOR
⑪	COWS TONGUE DOWNSPOUT NOZZLE, INSTALL AT 24" ABOVE FINISH GRADE, RE: PLUMBING	-
⑫	LIGHT FIXTURE, RE: ELECTRICAL	-
⑬	SIGNAGE PROVIDED AND INSTALLED BY OWNER. G.C. TO PROVIDE ELECTRICAL CONNECTIONS, RE: ELECTRICAL. G.C. TO PROVIDE ANCHORAGE FOR SIGNAGE. G.C. TO PROVIDE CORE DRILLED HOLES THROUGH MASONRY FOR CONDUIT FROM J BOXES MOUNTED AT THE INTERIOR OF THE BUILDING. COORDINATE NUMBER AND LOCATION WITH SIGNAGE SUPPLIER.	-
⑭	BOARD AND BATTEN CEMENT BOARD SIDING	HARDIE BOARD - TIMBER BARK

- EXTERIOR ELEVATION NOTES:
- ALL COLOR SELECTIONS ARE PRELIMINARY. G.C. TO VERIFY FINAL COLOR SELECTIONS WITH ARCHITECT AND OWNER PRIOR TO ORDERING.
 - ALL EXPOSED STEEL TO BE PAINTED AS DESCRIBED IN SPEC., VERIFY COLOR WITH ARCHITECT AND OWNER.
 - UNDERSIDE OF PREFINISHED METAL STANDING SEAM ROOFING TO BE PAINTED. VERIFY COLOR WITH ARCHITECT AND OWNER.
 - PROVIDE MASONRY CONTROL JOINTS AS SHOWN, RE: 7/A5.2.
 - PROVIDE COLORED MORTAR AT CMU AND BRICK. COLOR TO BE SELECTED BY THE ARCHITECT FROM THE MANUFACTURERS FULL LINE OF COLORS.



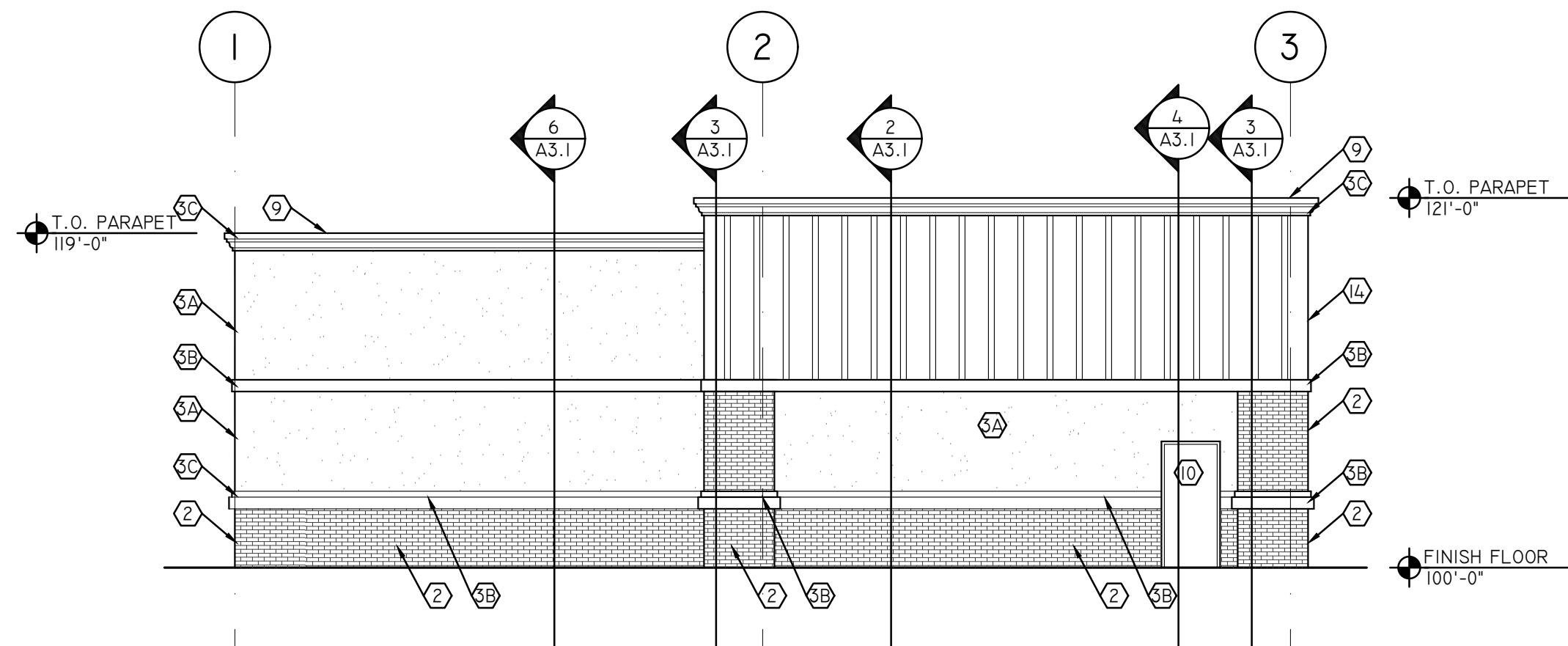
SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



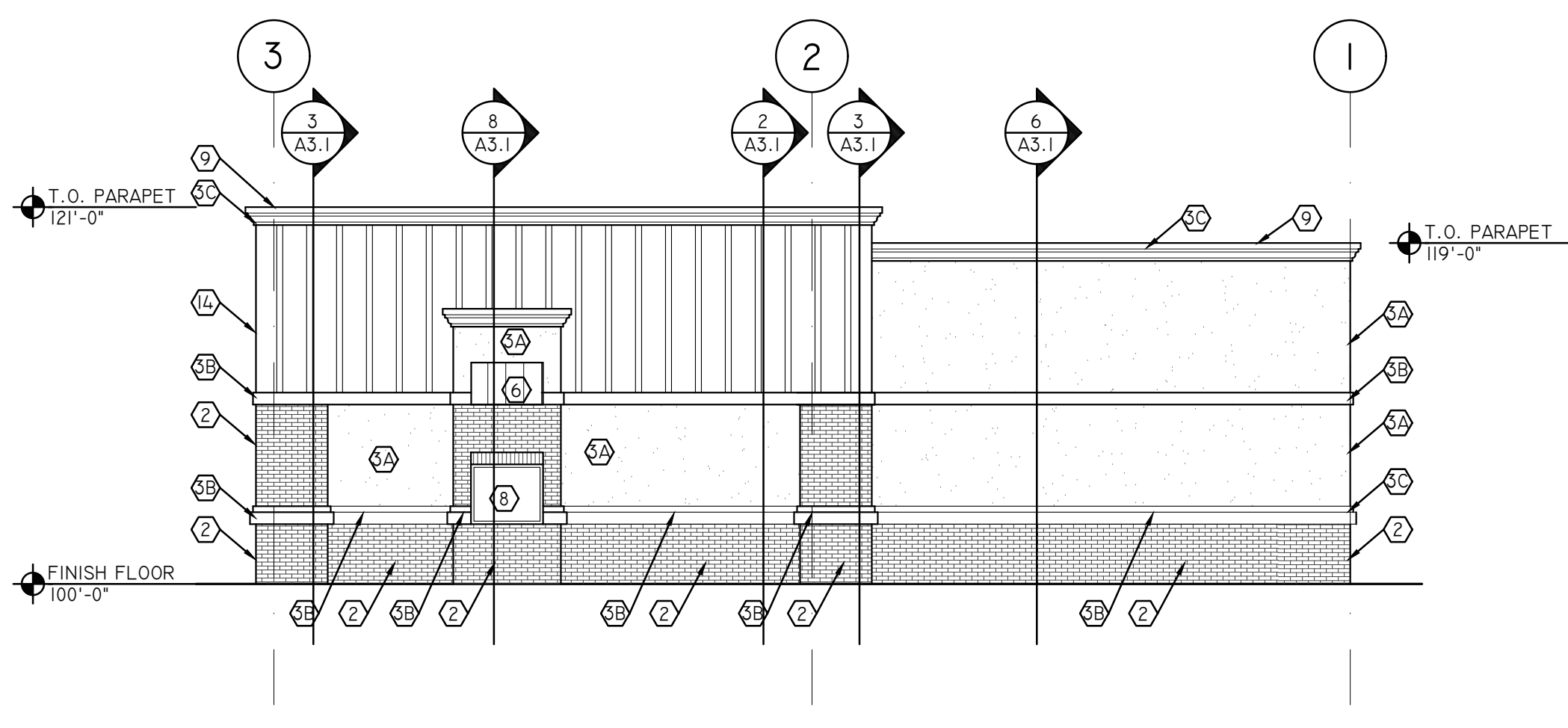
NORTH ELEVATION

SCALE: 1/8" = 1'-0"



WEST ELEVATION

SCALE: 1/8" = 1'-0"



EAST ELEVATION

SCALE: 1/8" = 1'-0"



RETAIL BUILDING
SANTAQUIN PAD C

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION

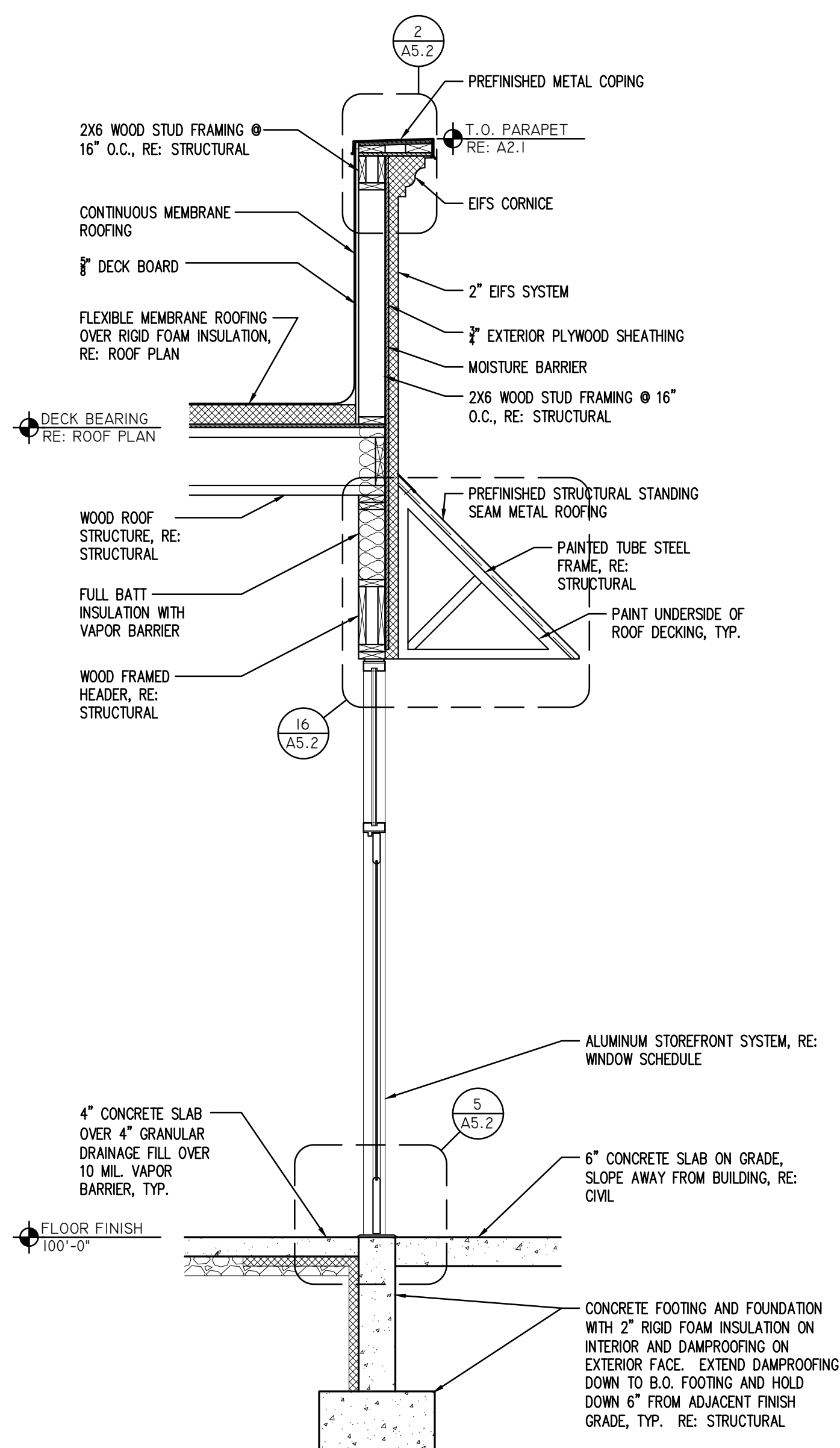
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DESIGN SEQUENCE PROJECT NO: 2010.01
CAD DWG FILE NO:

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DESIGNED BY: KV
DWG TYPE:
ARCHITECTURAL PHASE: PERMIT SET

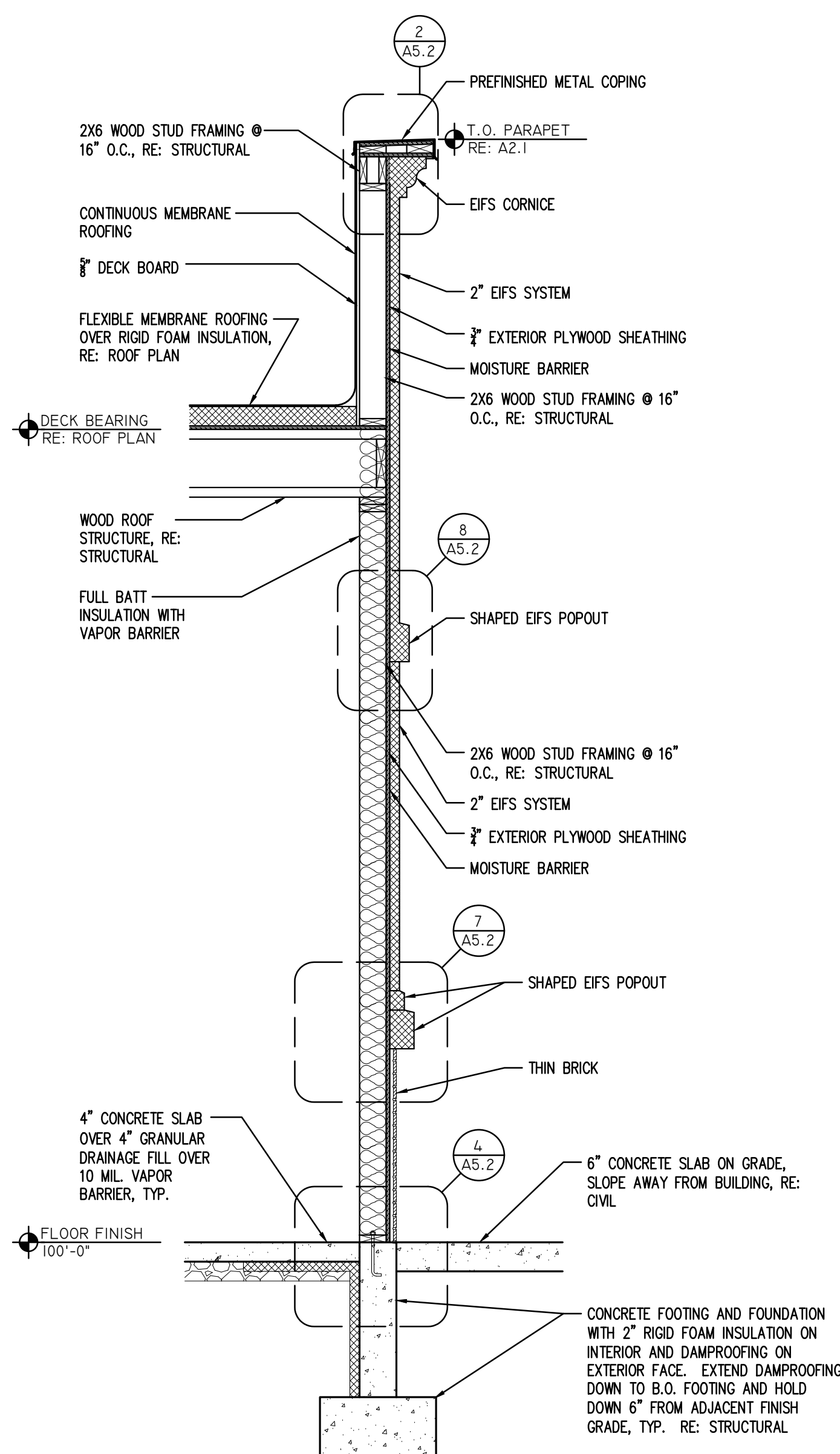
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EXTERIOR
ELEVATIONS

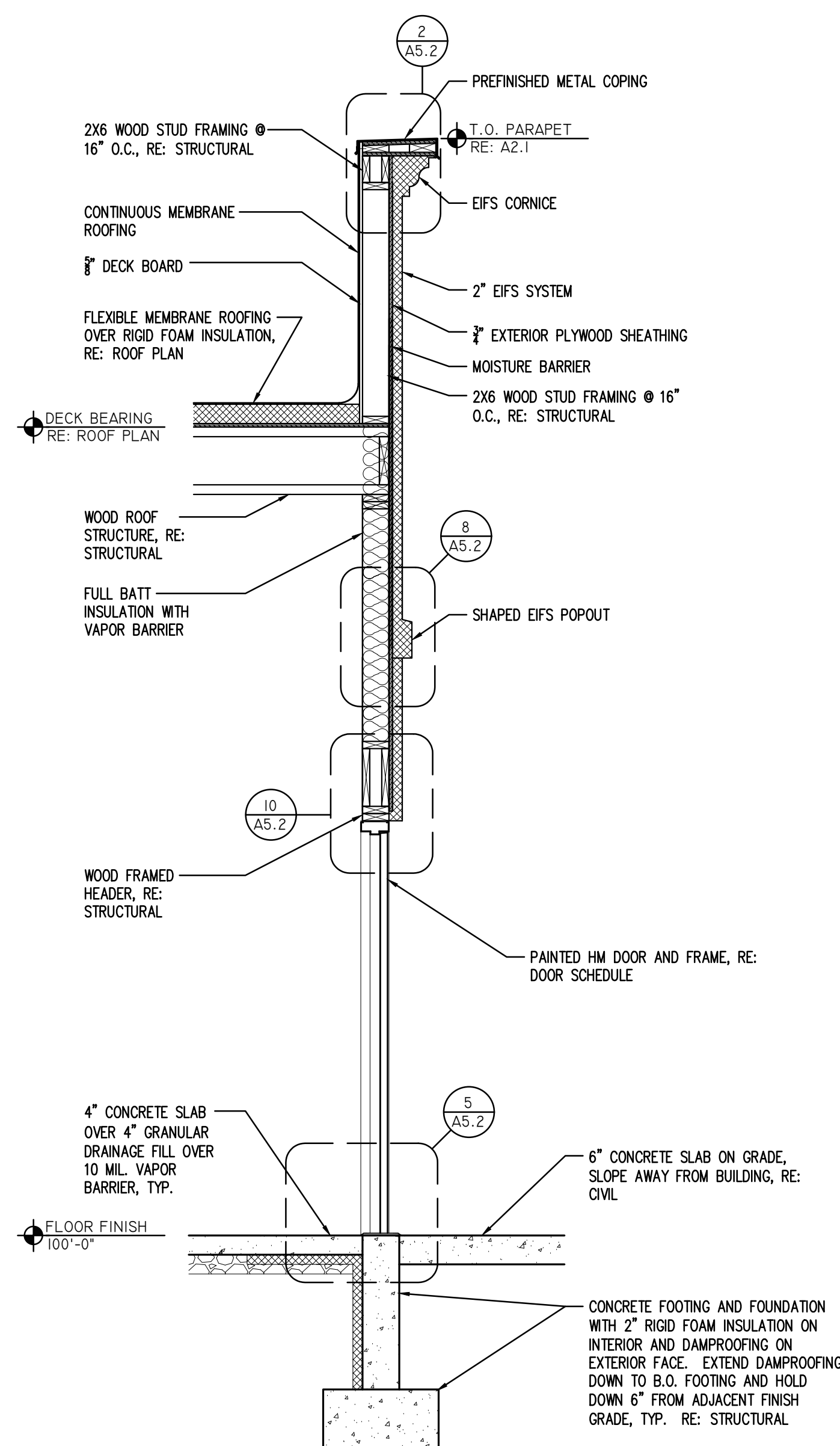
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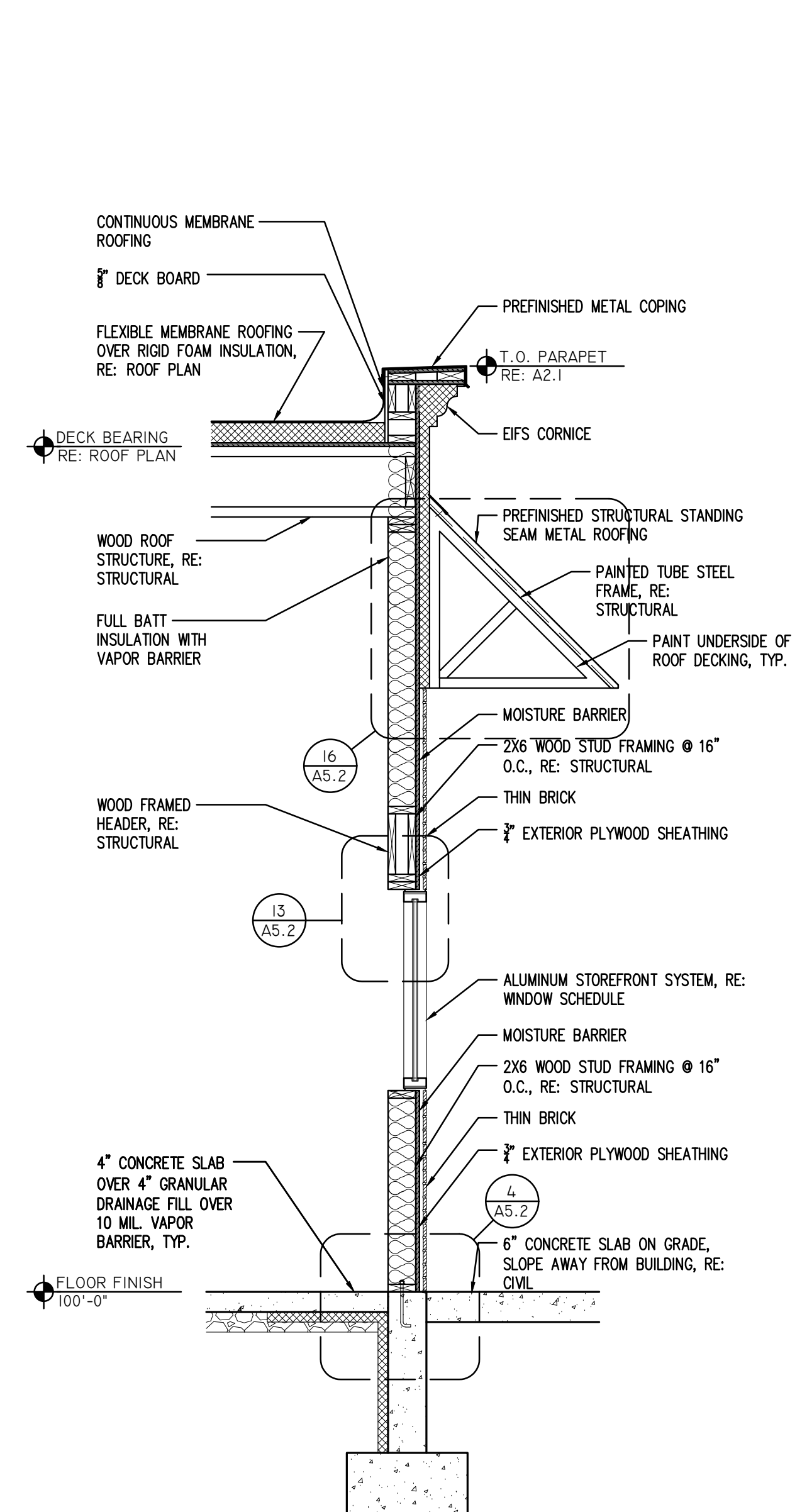
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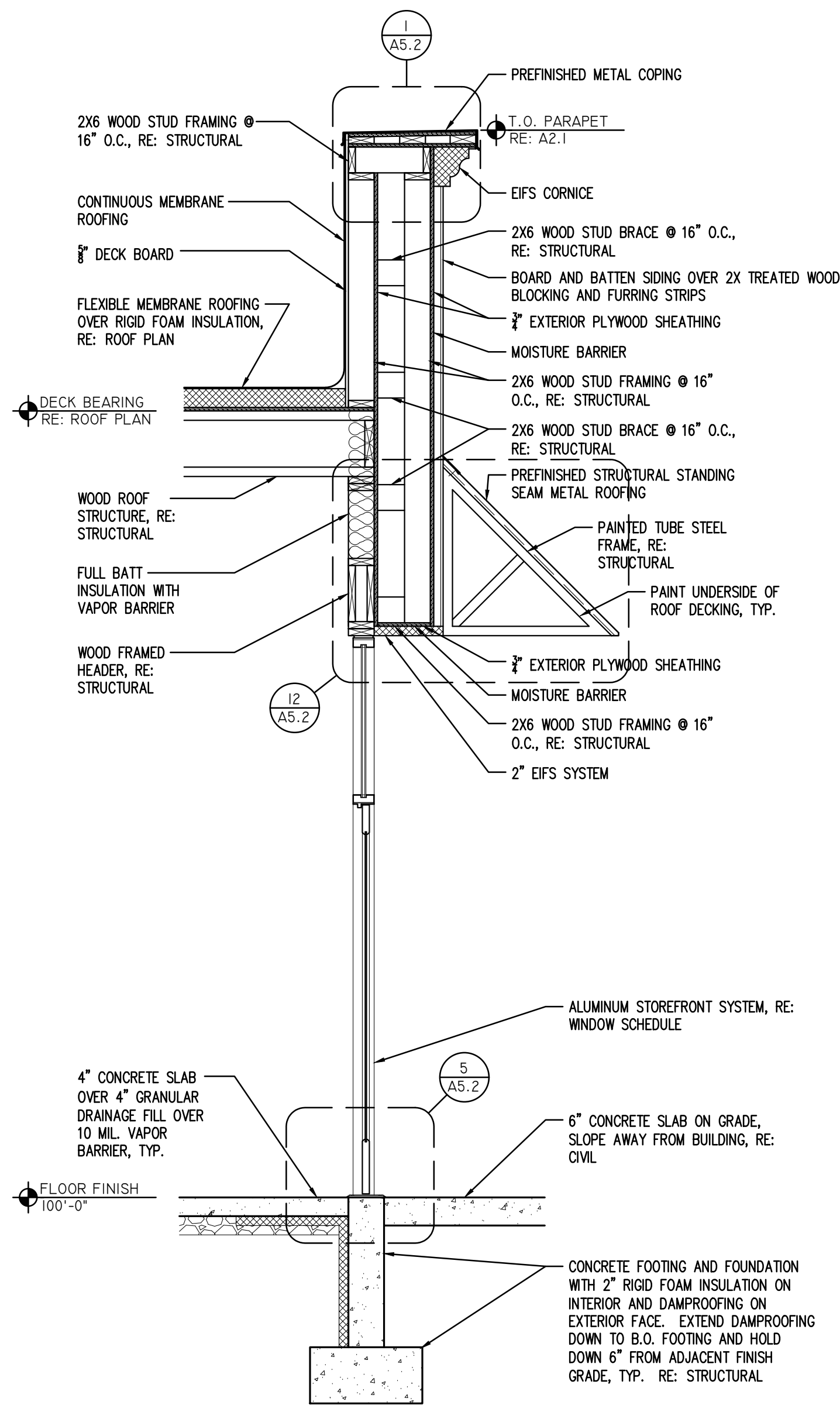
6 WALL SECTION
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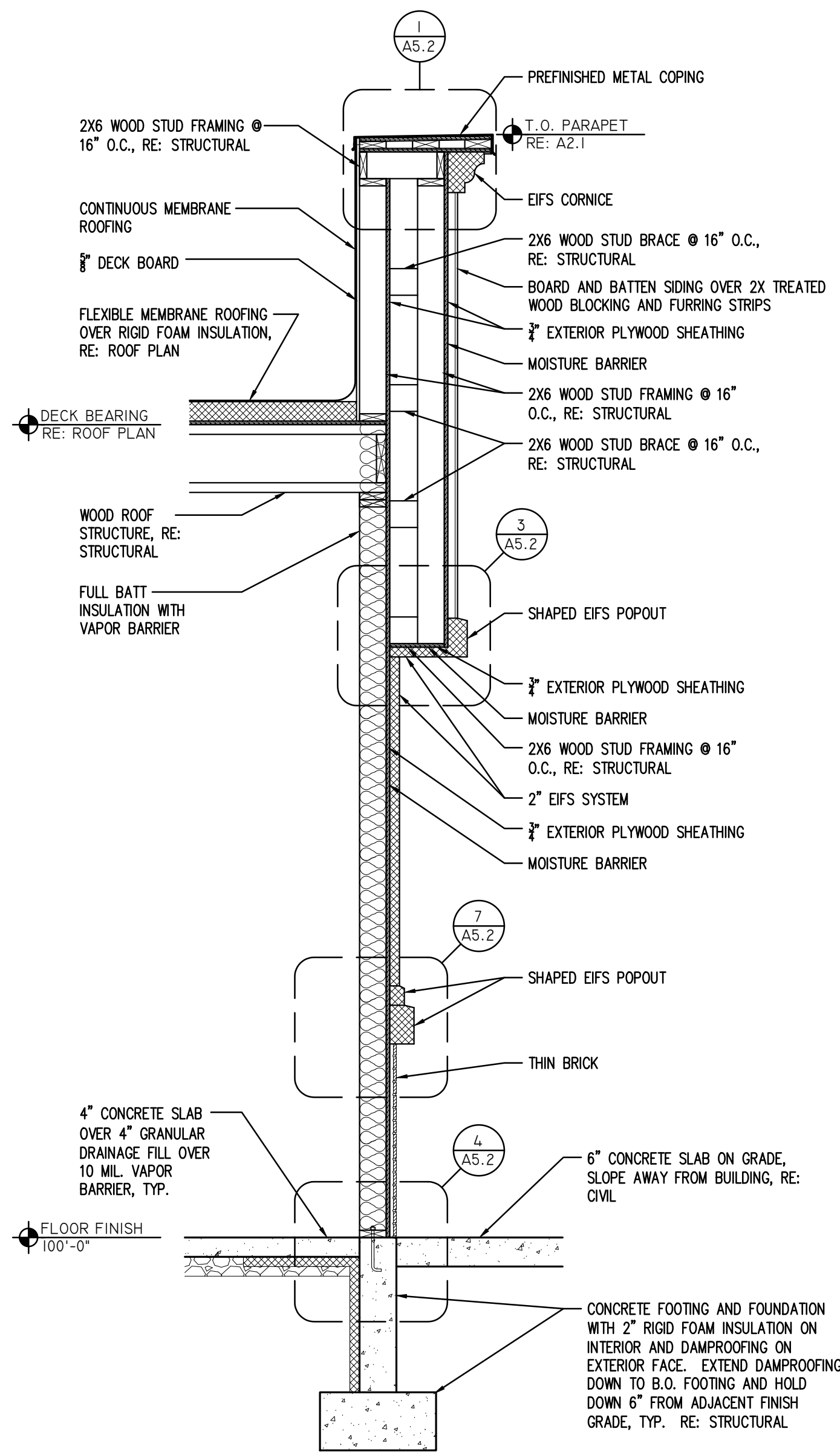
7 WALL SECTION
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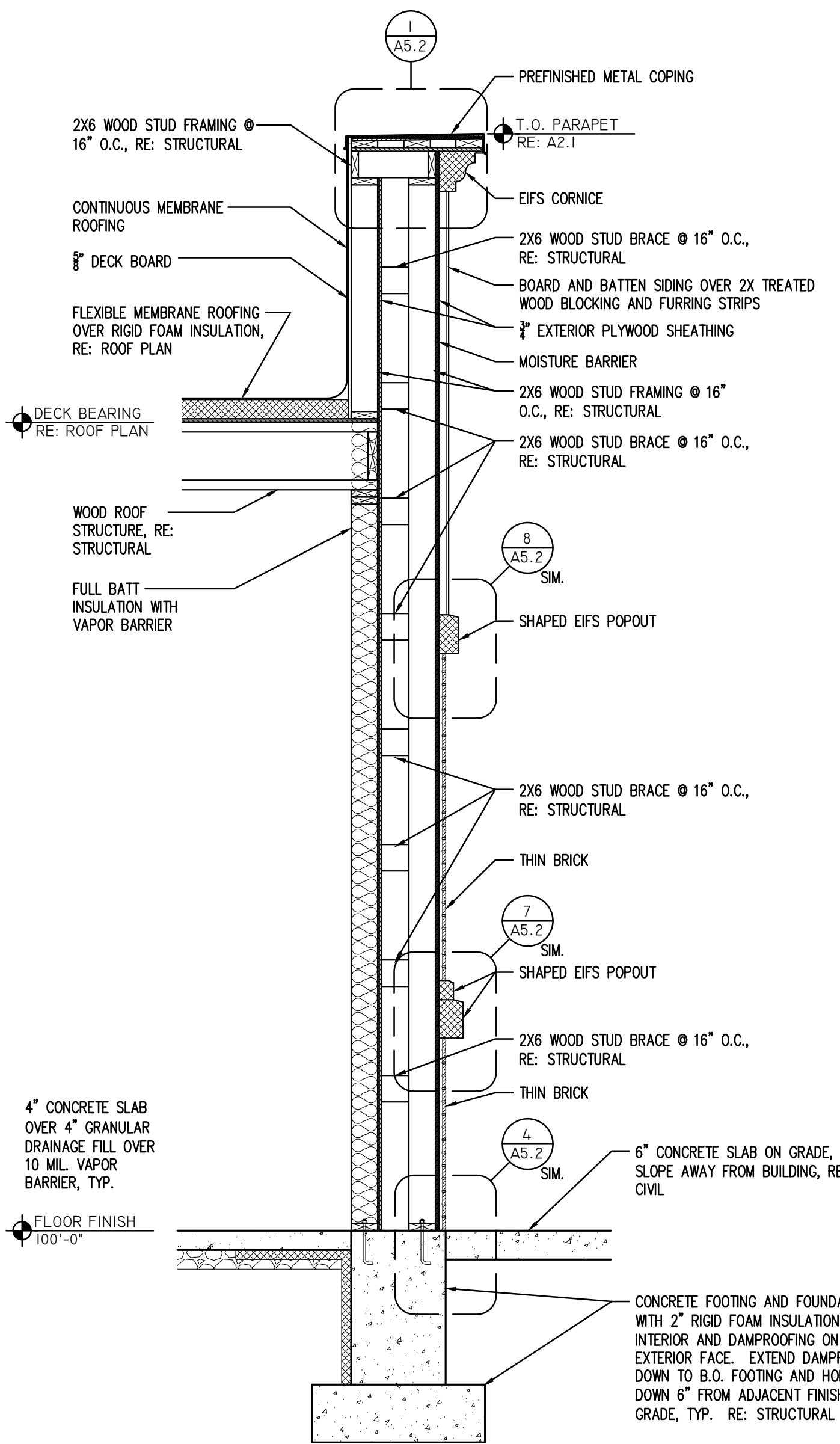
8 WALL SECTION
SCALE: 1/2" = 1'-0"



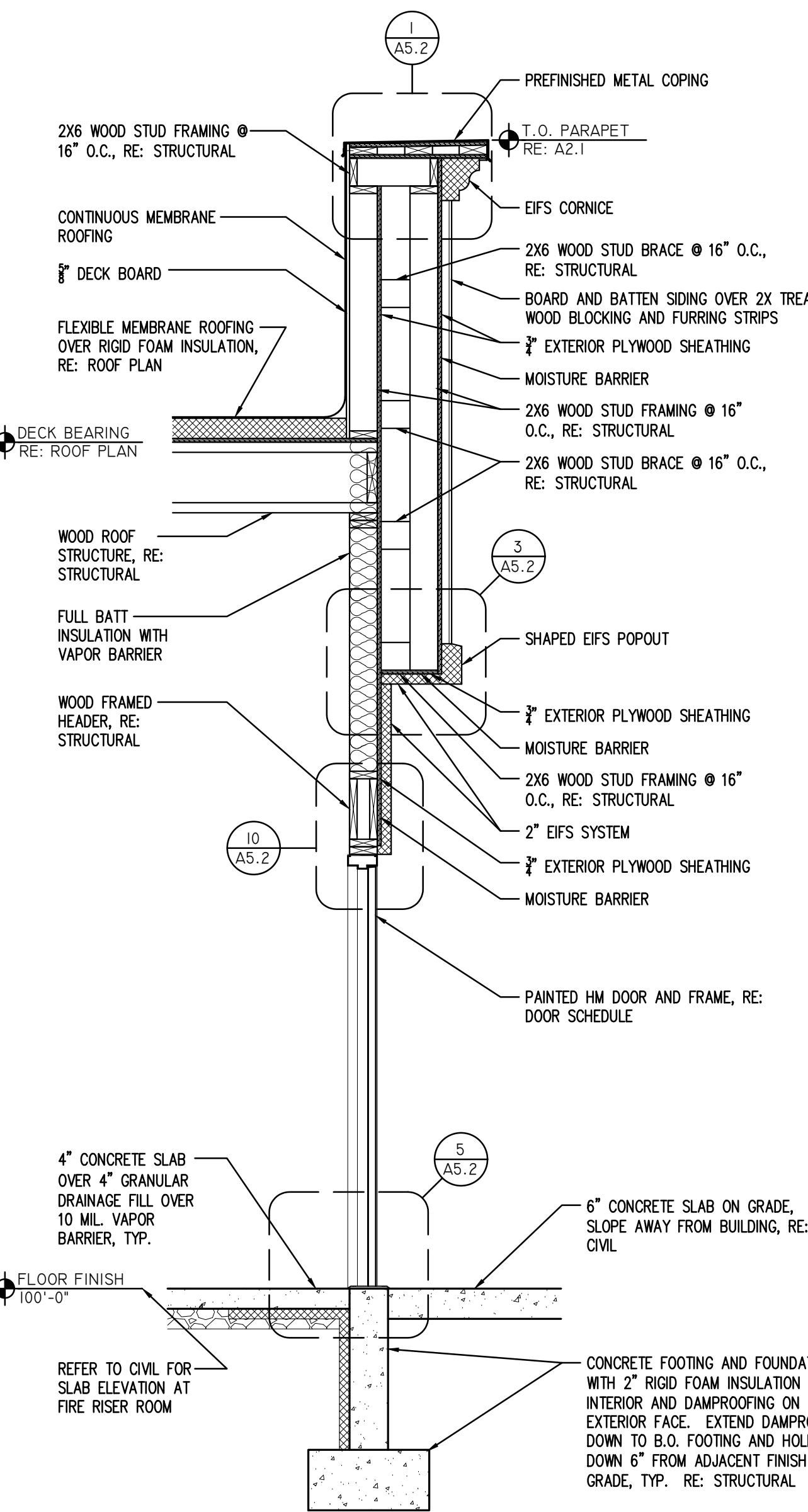
1 WALL SECTION
SCALE: 1/2" = 1'-0"



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



3 WALL SECTION
SCALE: 1/2" = 1'-0"



4 WALL SECTION
SCALE: 1/2" = 1'-0"

RETAIL BUILDING
SANTAQUIN PAD C

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION

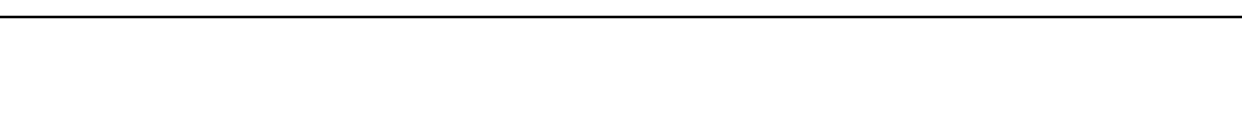
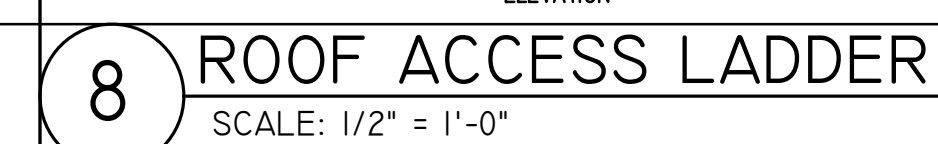
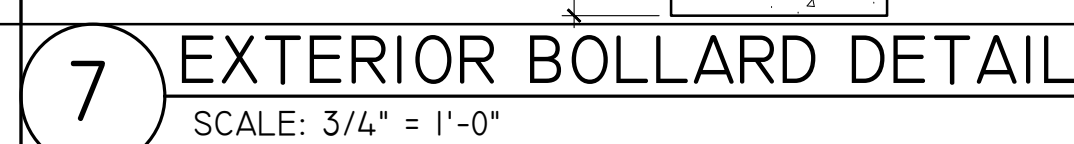
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AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO: 2010.01
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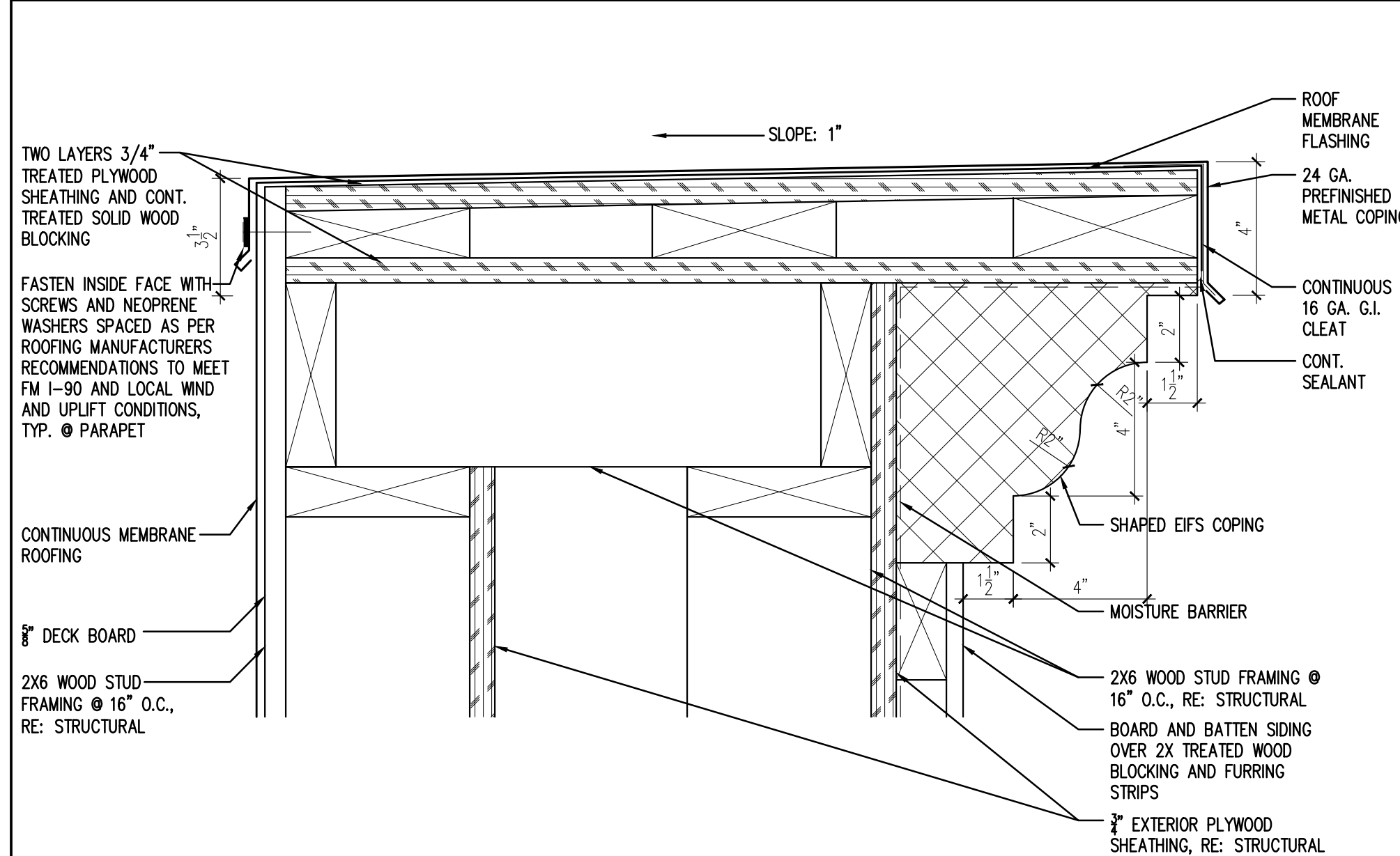
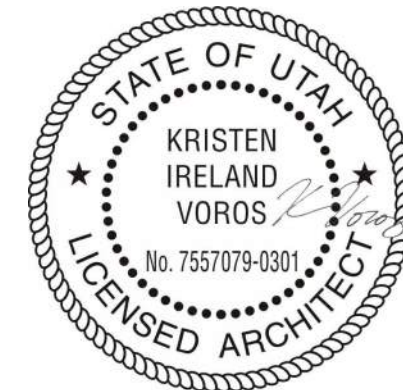
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DESIGNED BY: KV
DWG TYPE:
ARCHITECTURAL PHASE: PERMIT SET

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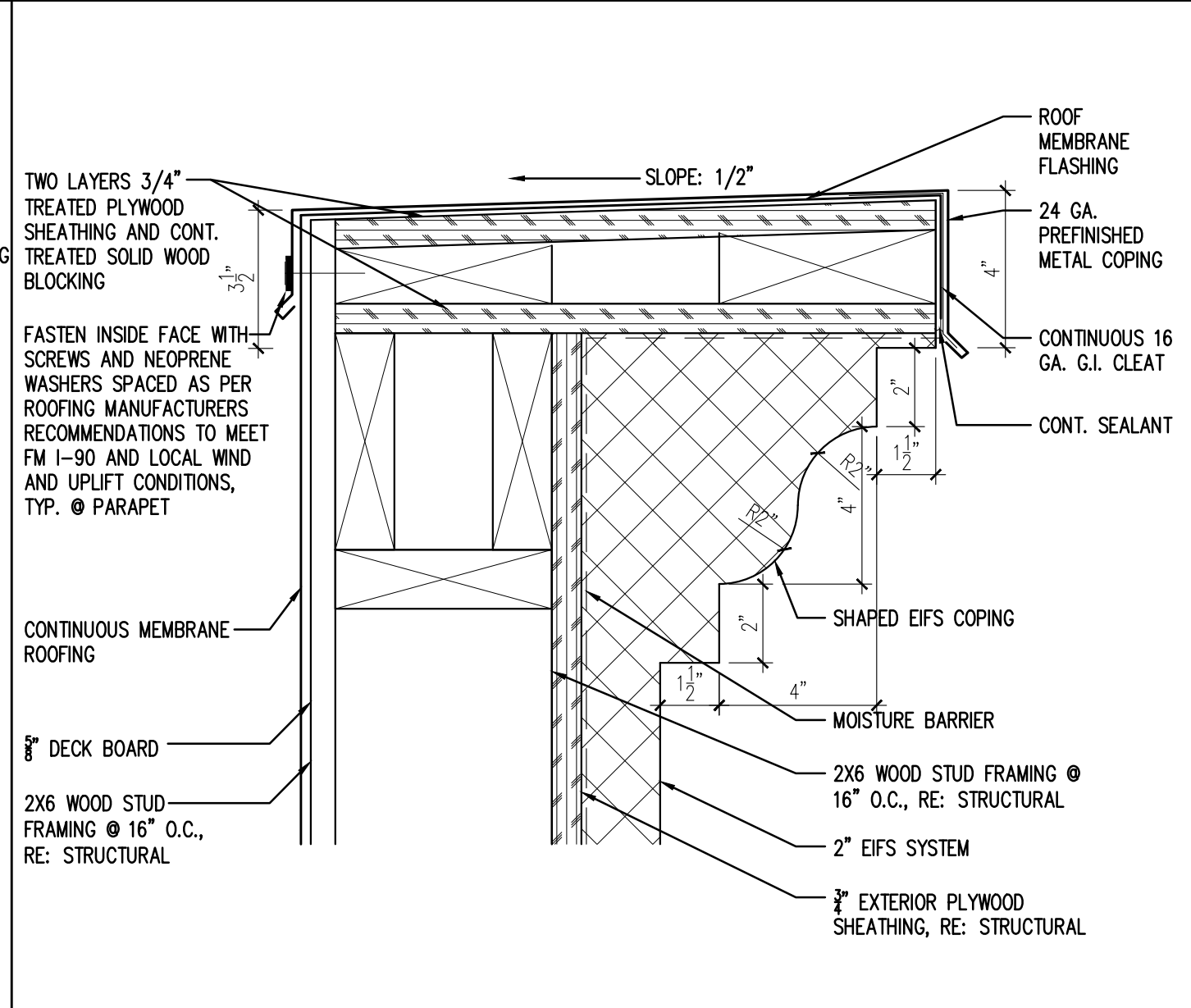
WALL SECTIONS

A3.1

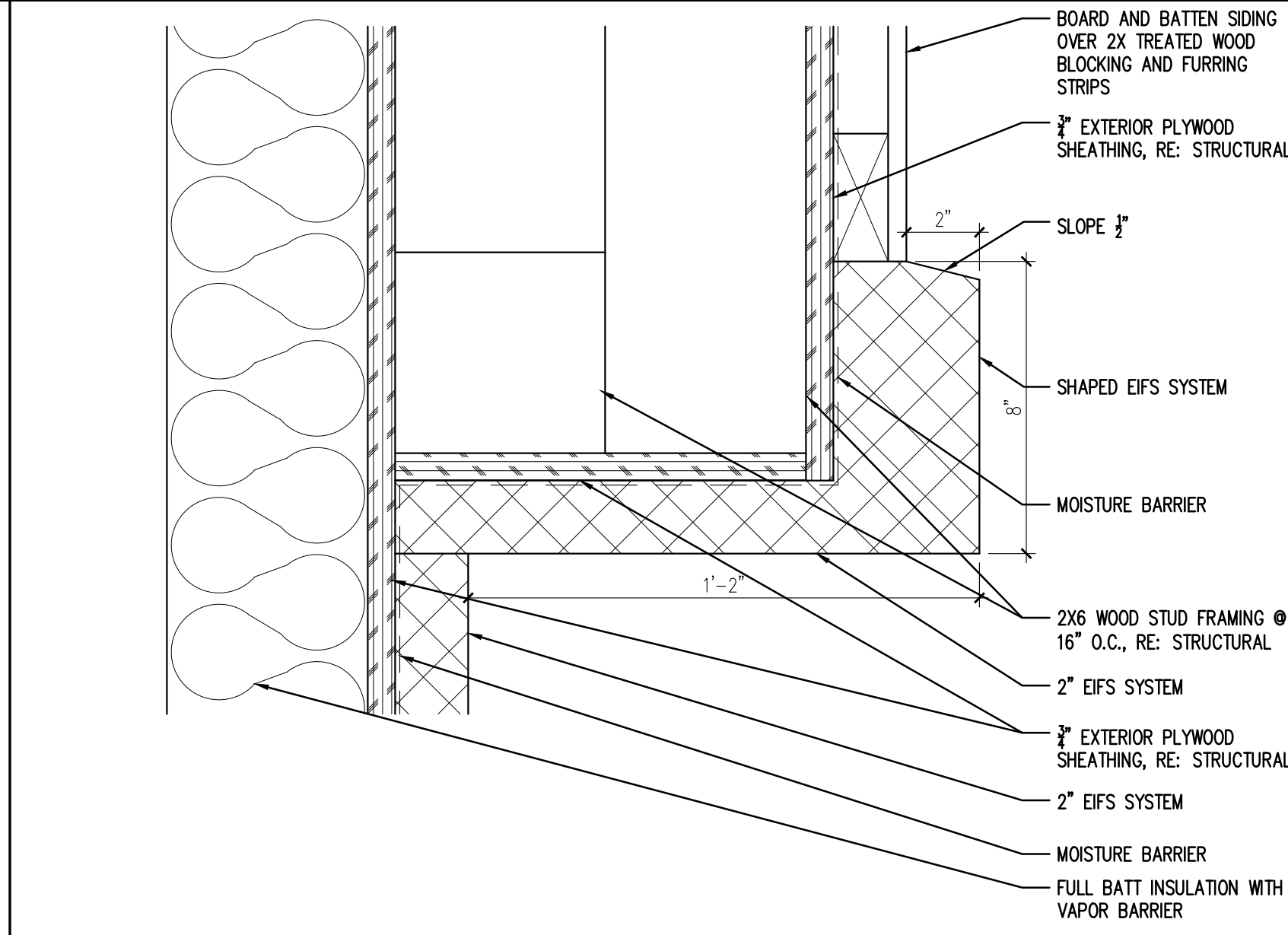
A5.1



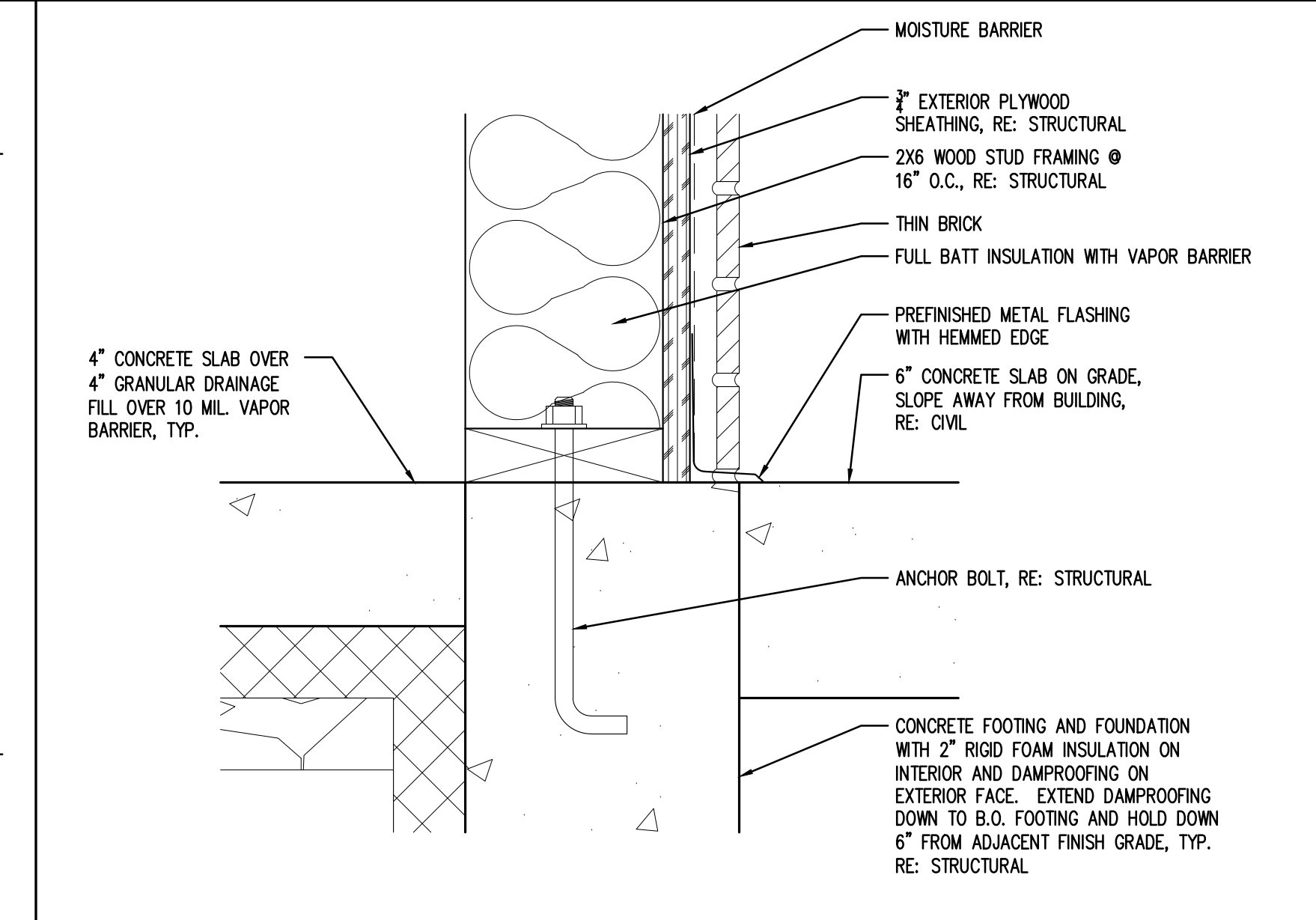
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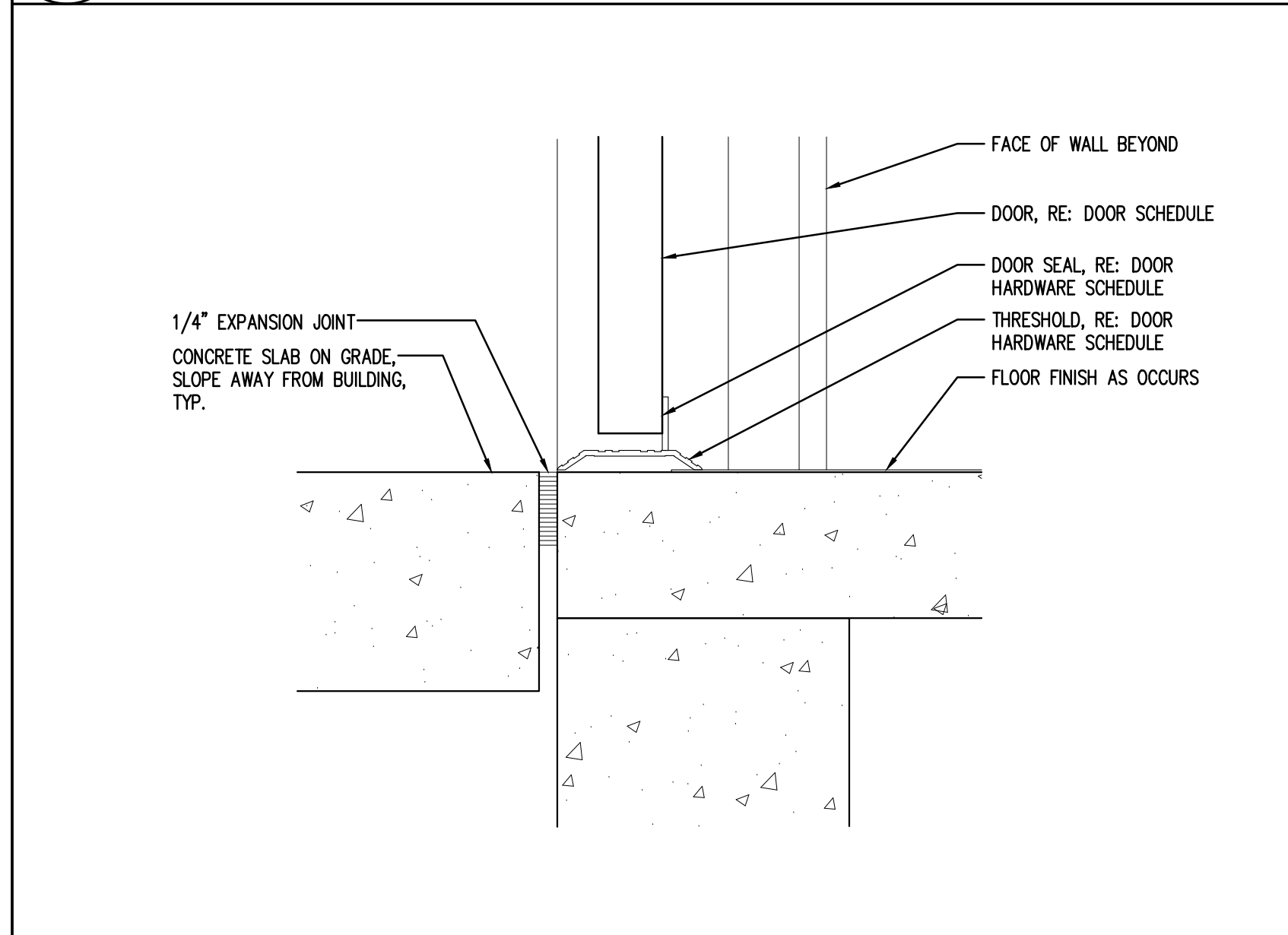
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SCALE: 3" = 1'-0"



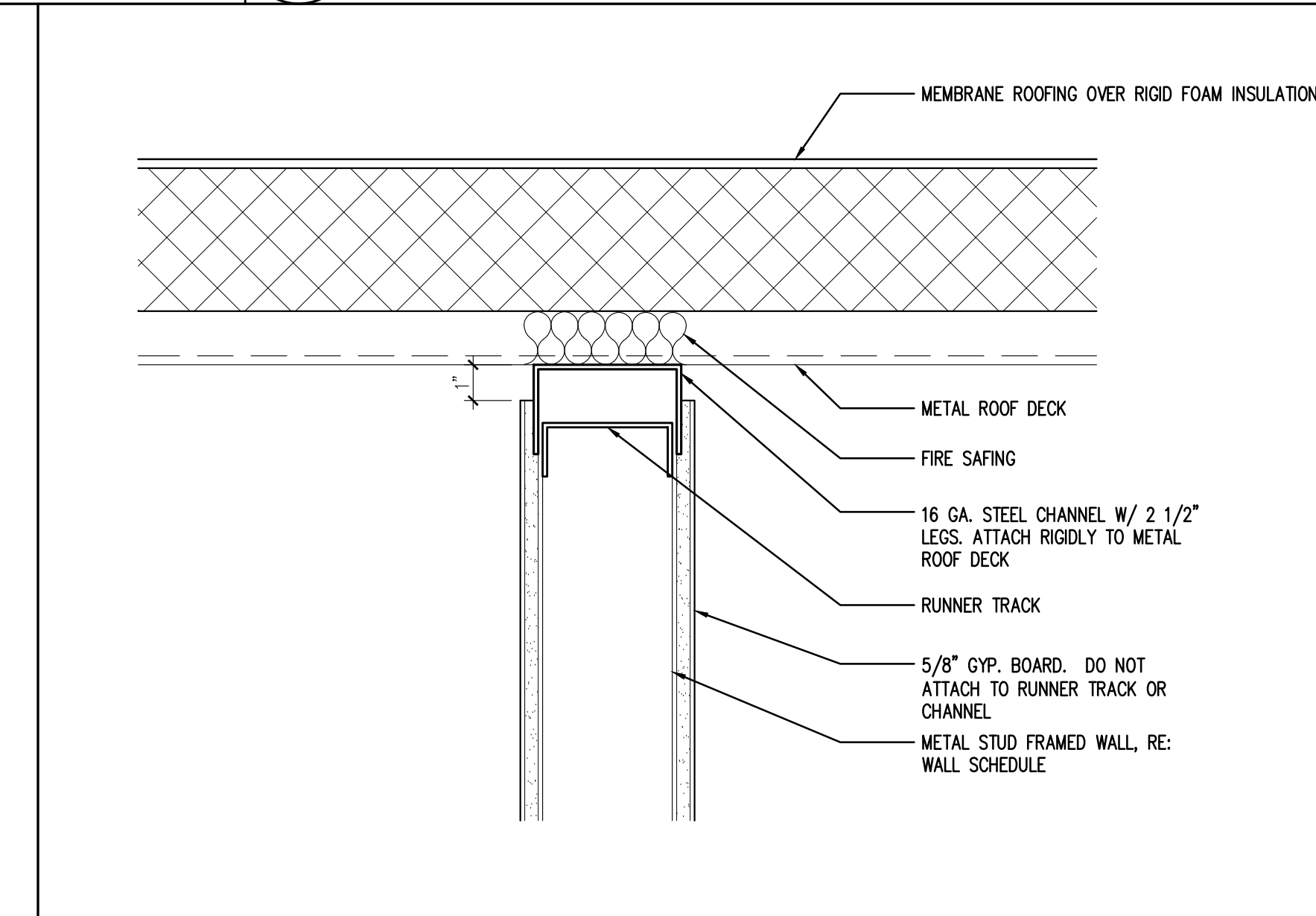
3 SECTION DETAIL
SCALE: 3" = 1'-0"



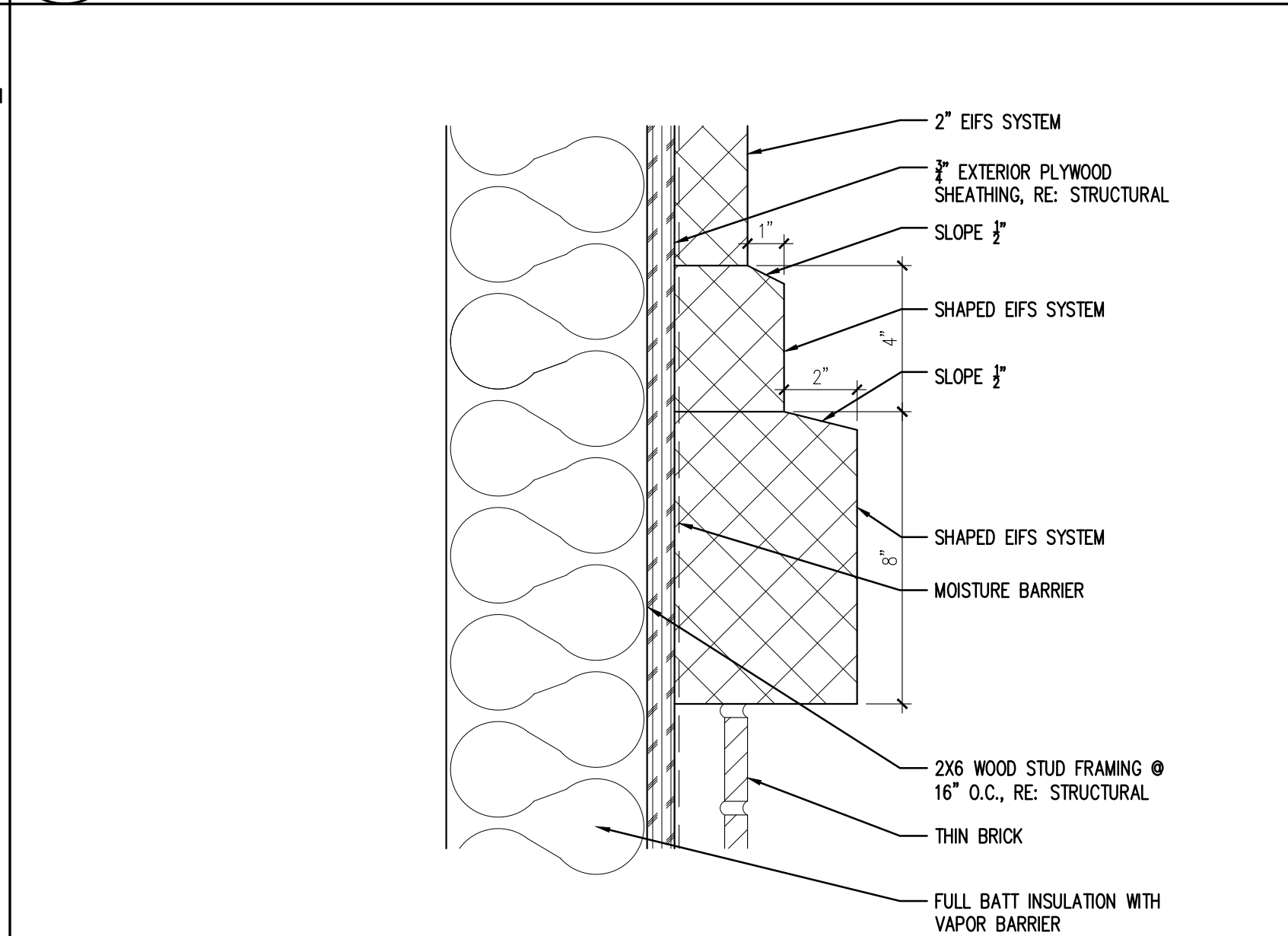
4 SECTION DETAIL
SCALE: 3" = 1'-0"



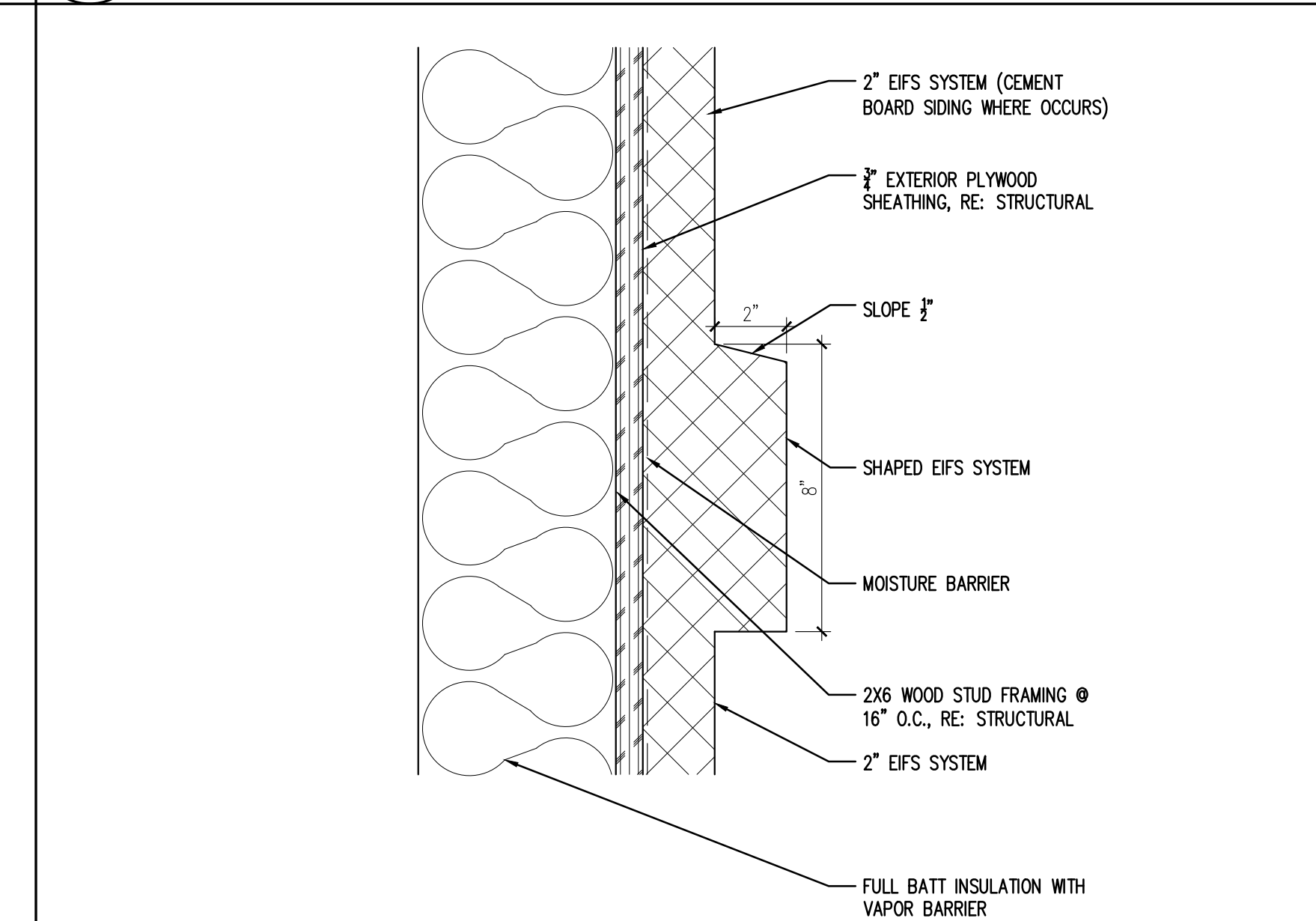
5 THRESHOLD DETAIL
SCALE: 3" = 1'-0"



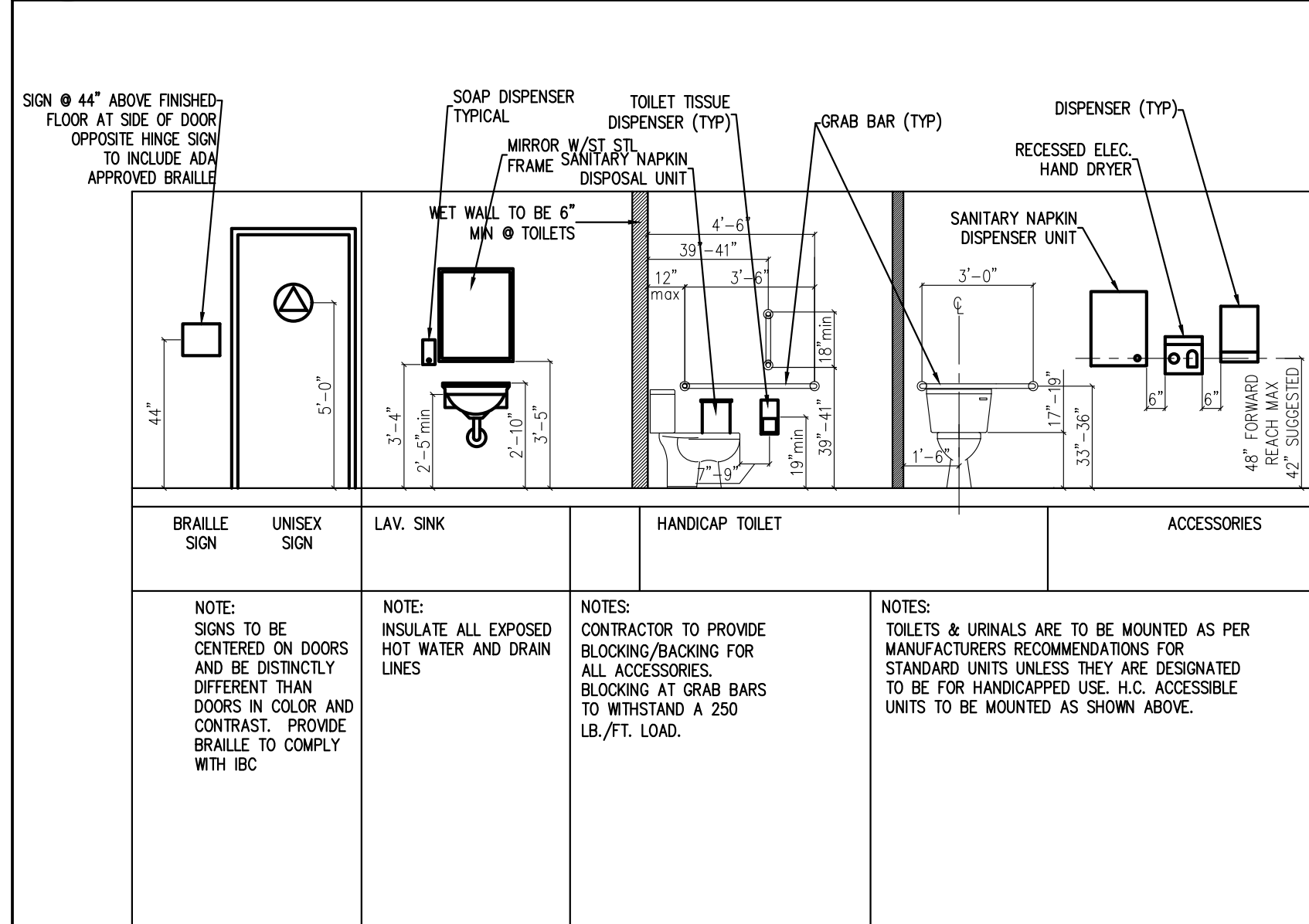
6 SLIP TRACK DETAIL
SCALE: 3" = 1'-0"



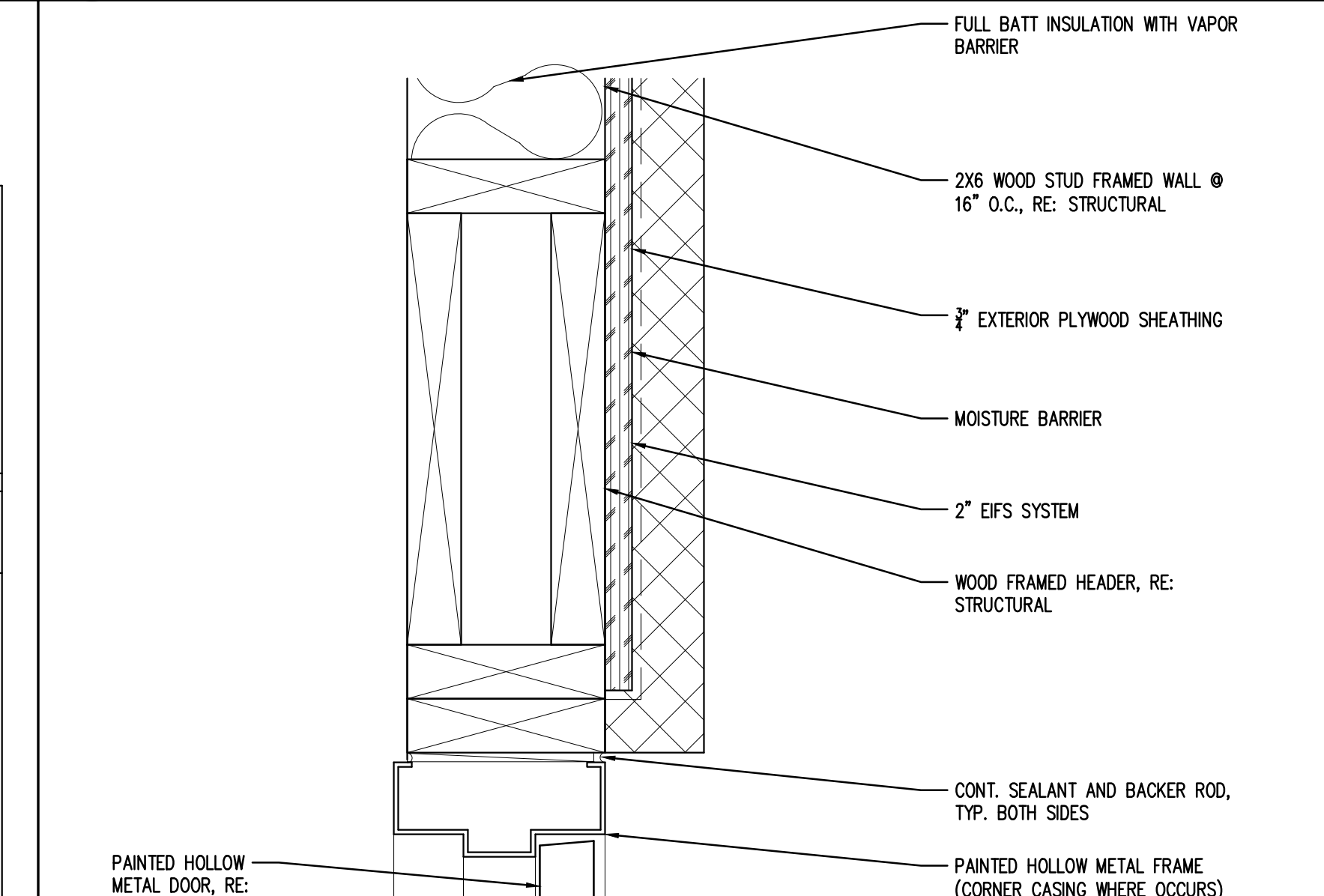
7 SECTION DETAIL
SCALE: 3" = 1'-0"



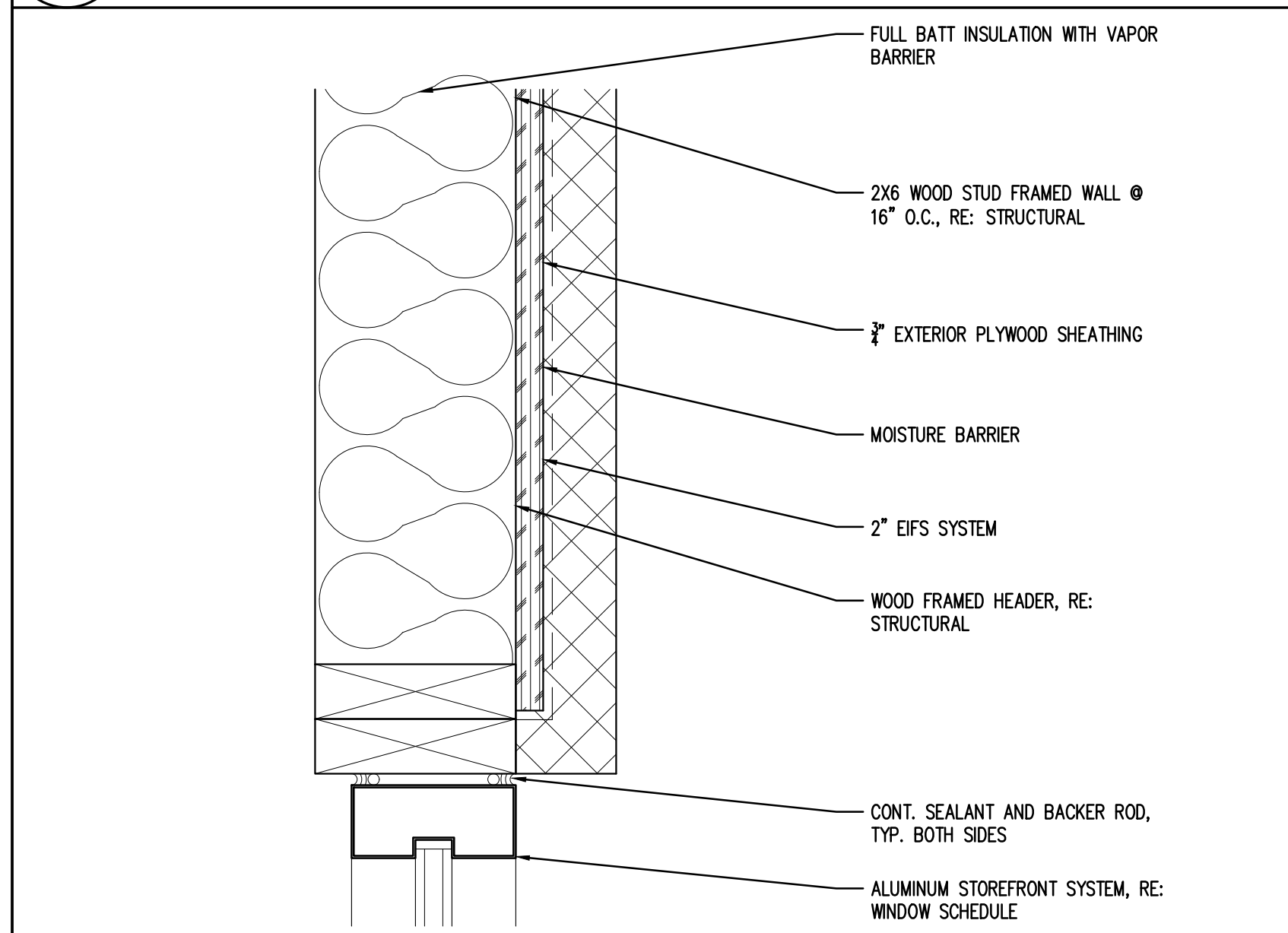
8 SECTION DETAIL
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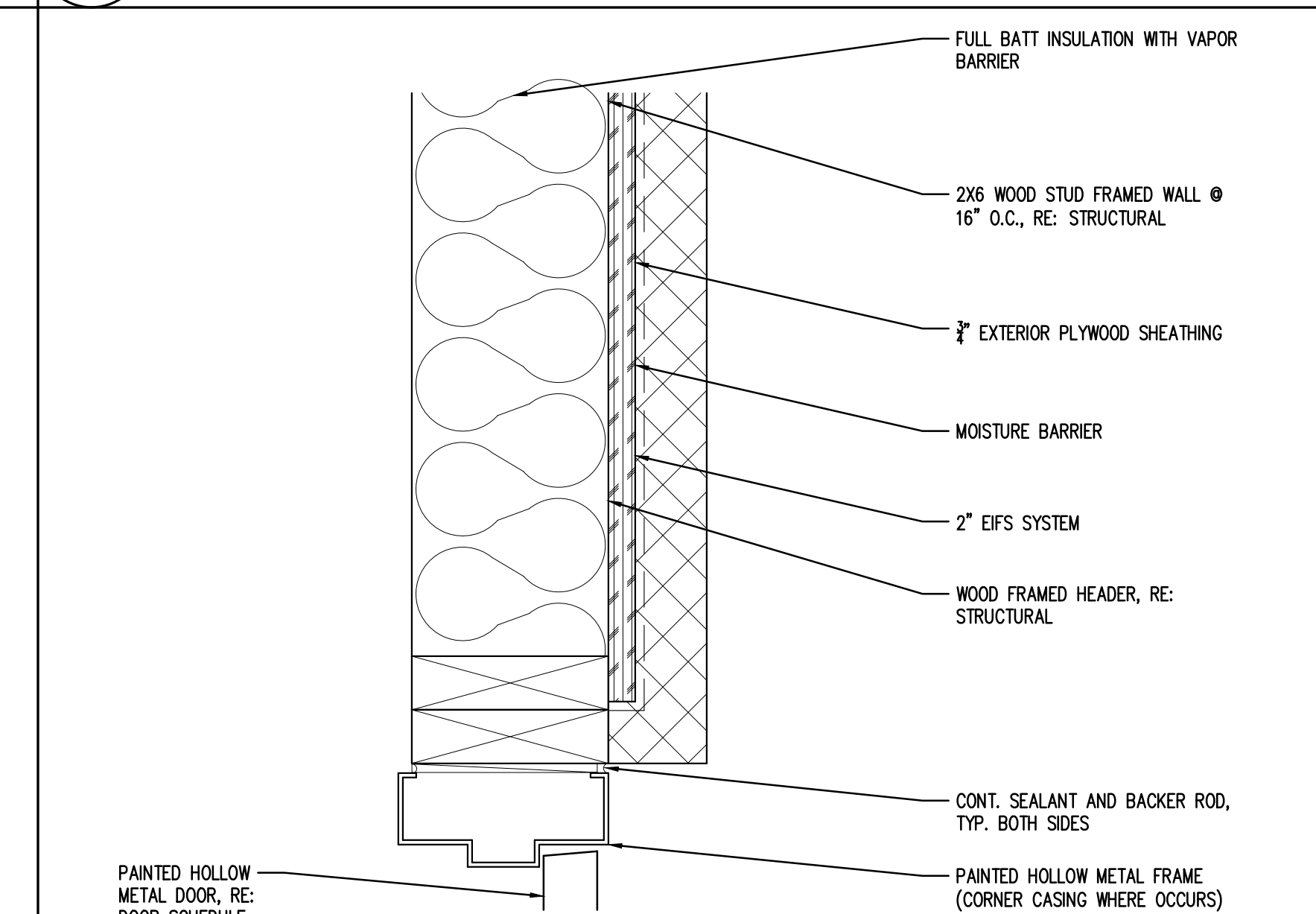
9 MOUNTING STANDARDS
SCALE: NTS



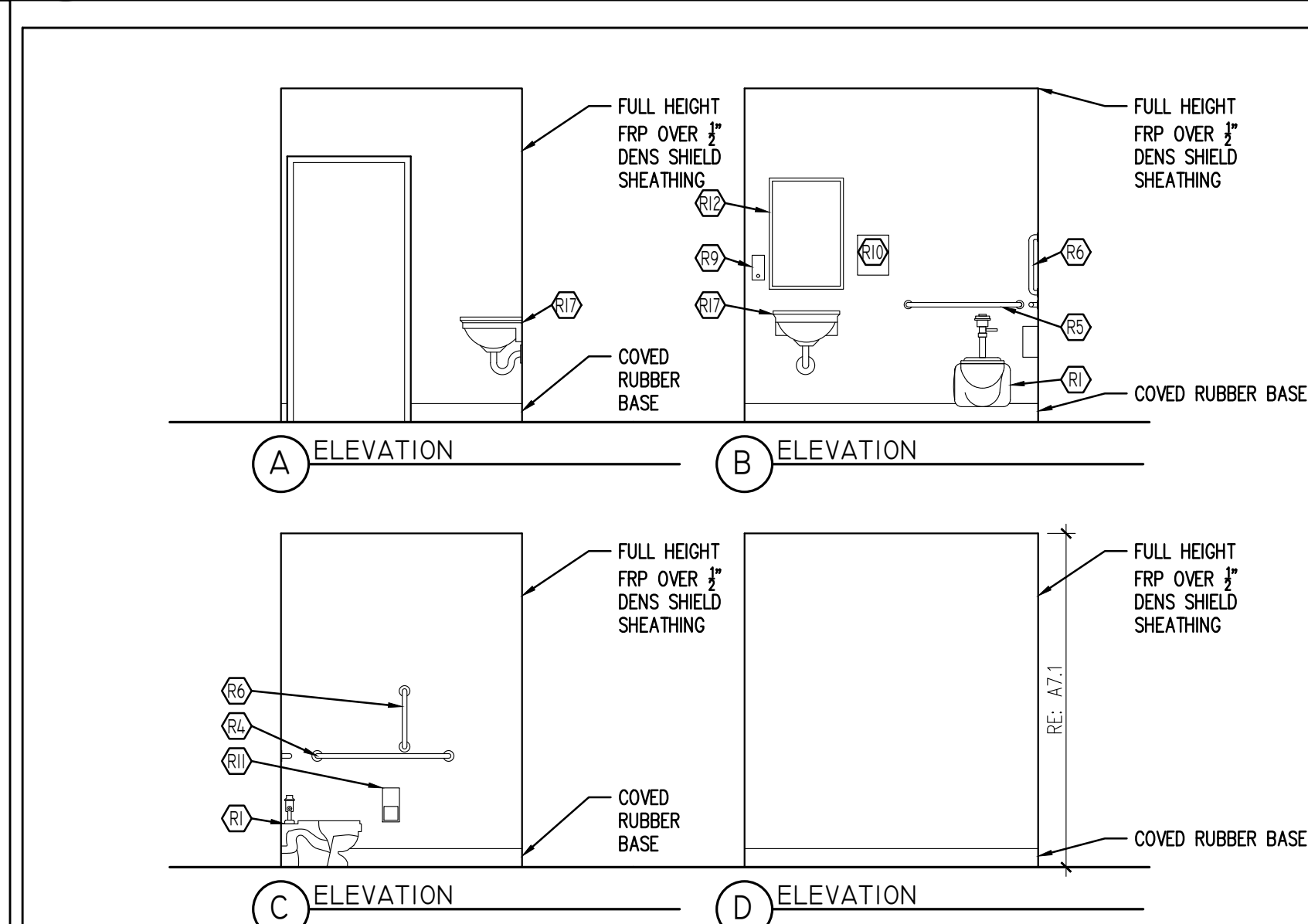
10 HM HEAD DETAIL
SCALE: 3" = 1'-0"



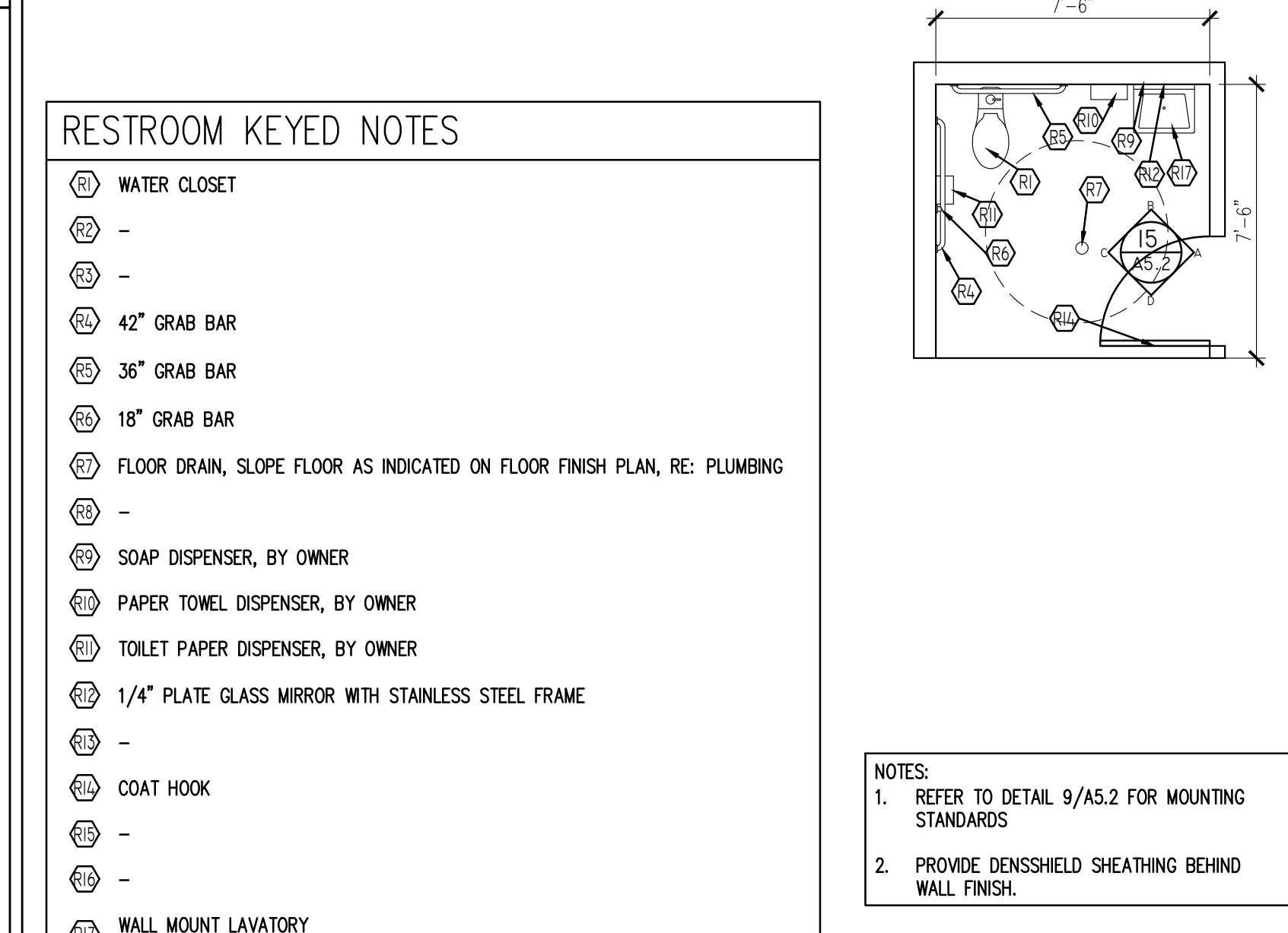
13 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



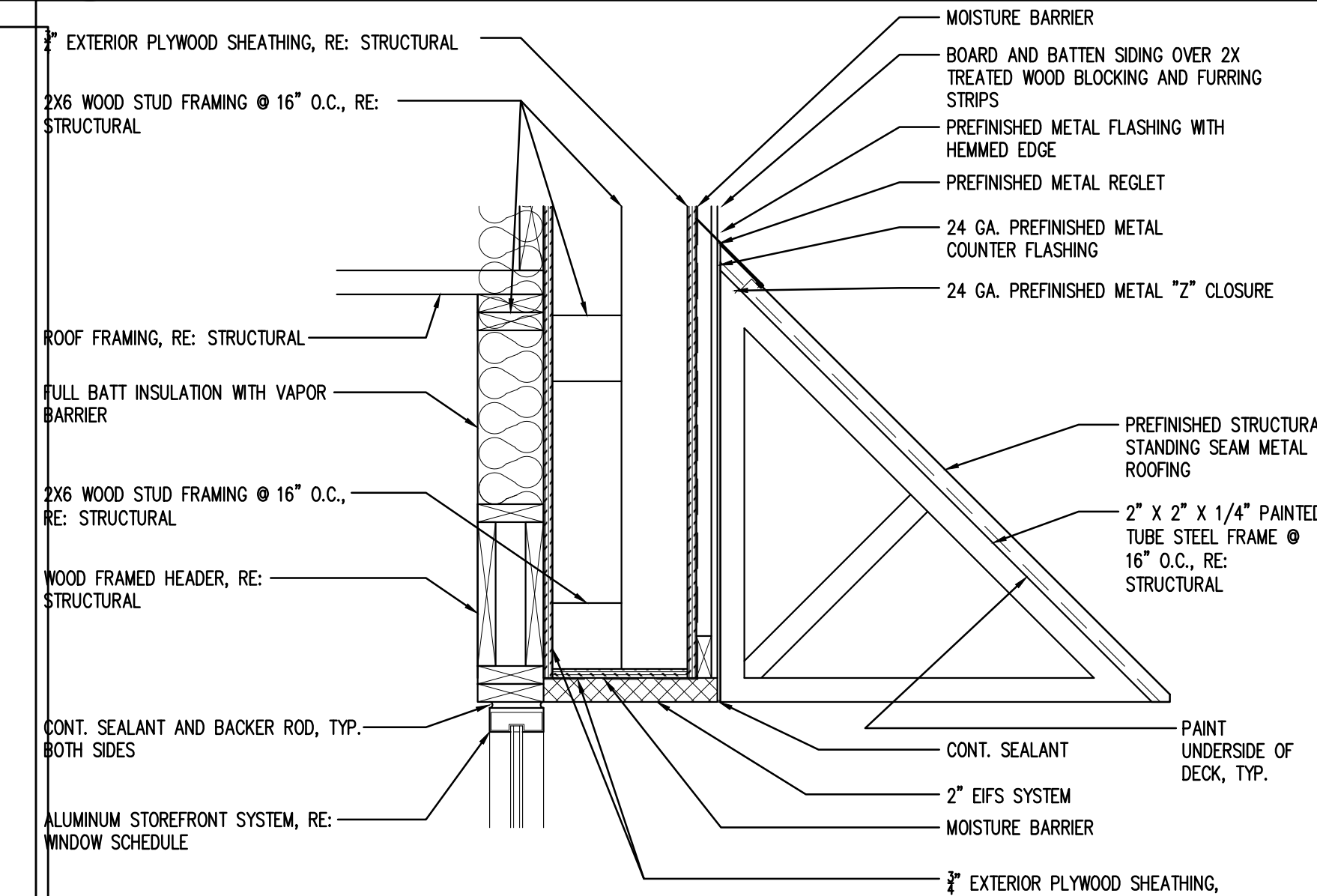
14 HM JAMB DETAIL
SCALE: 3" = 1'-0"



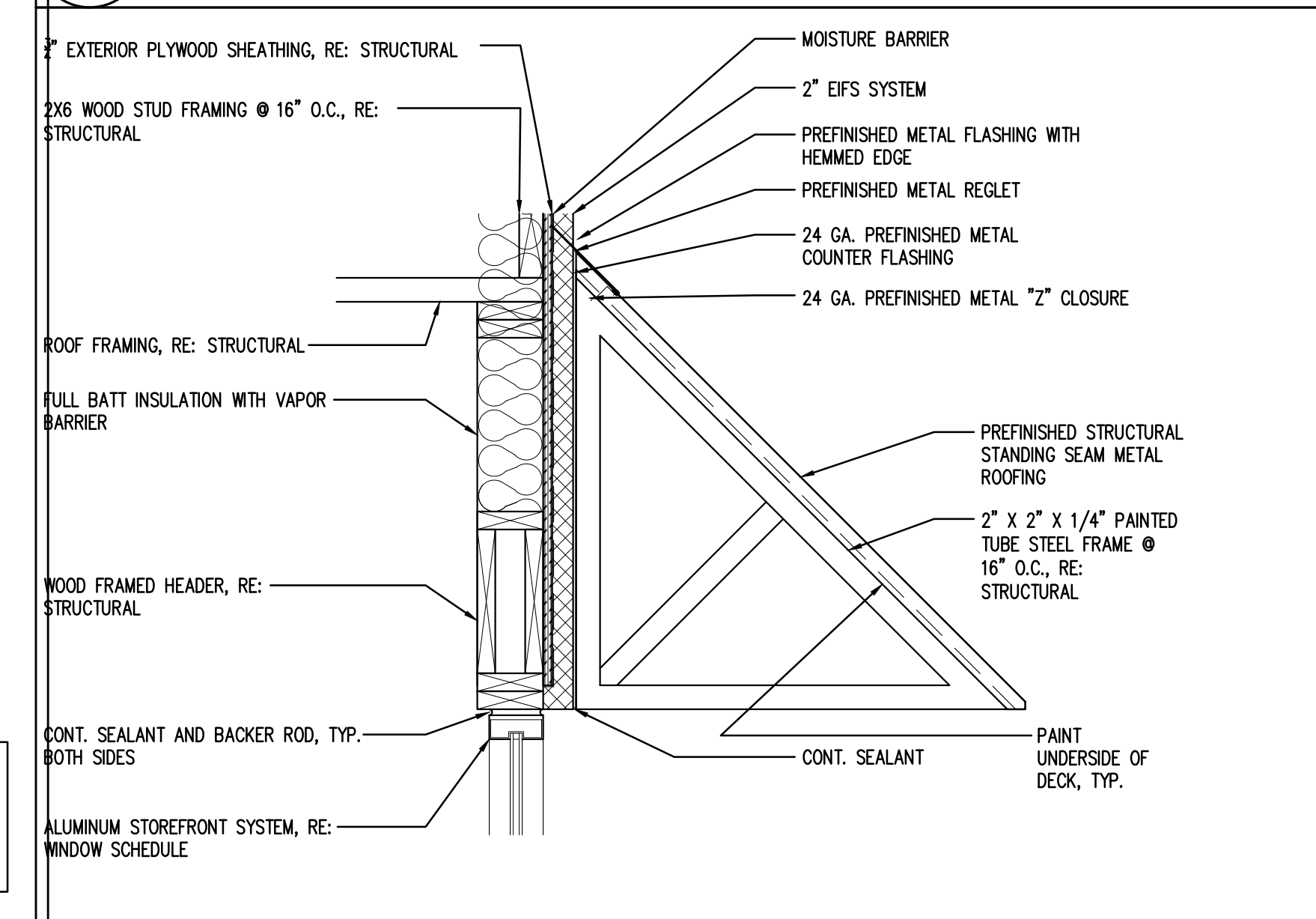
15 RESTROOM
SCALE: 1/4" = 1'-0"



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



12 STANDING SEAM CANOPY
SCALE: 1" = 1'-0"



16 STANDING SEAM CANOPY
SCALE: 1" = 1'-0"

RETAIL BUILDING
SANTAQUIN PAD C

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2020
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO: 2010.01
CAD DWG FILE NO:

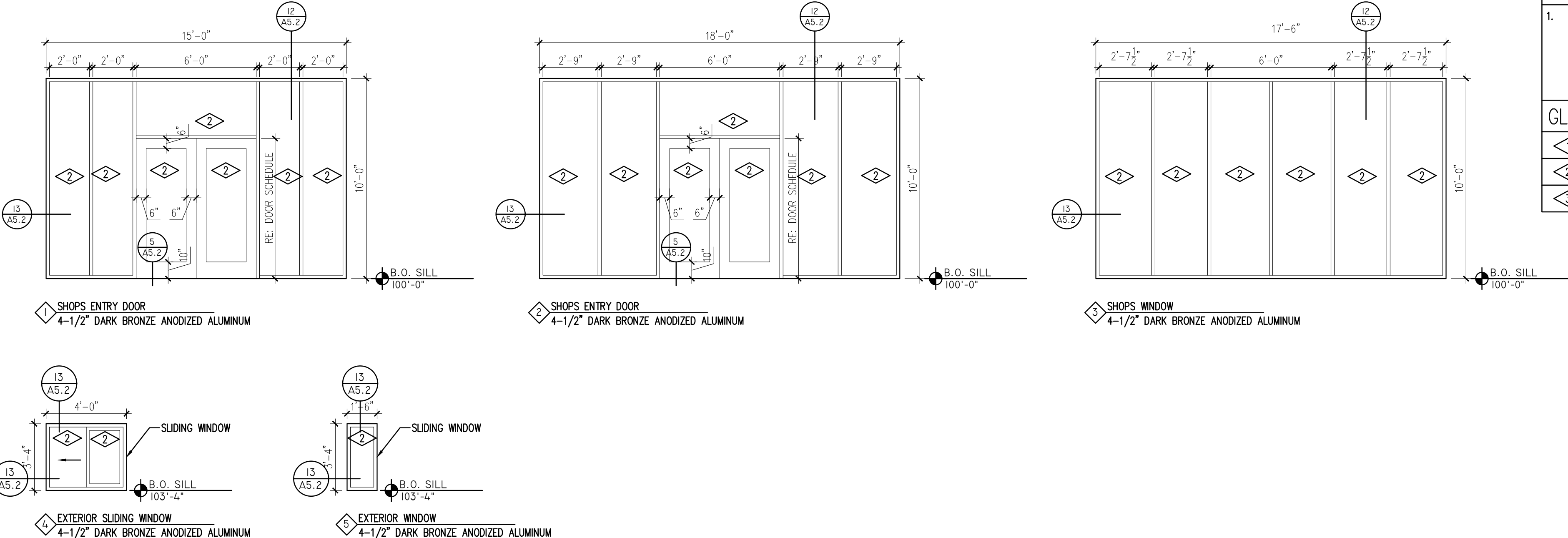
DRAWN BY: KV
DESIGNED BY: KV
DWG TYPE:
ARCHITECTURAL PHASE: PERMIT SET

SHEET TITLE

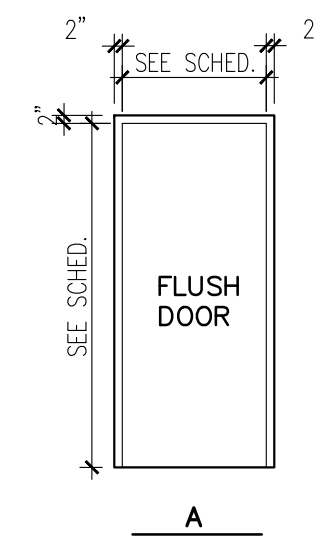
DETAILS

A5.2

WINDOW TYPES



DOOR TYPES



Hardware Schedule

Hardware Group 1 – Front Entry Double Door									
2	ea	Cont. hinge	780-112HD						Roton
2	ea	Exit device	9849NL	x 937 L	260				Van Duprin
2	ea	Stabilizer							US28
2	ea	Closers							LON
2	ea	Weatherstripping							
2	ea	Door Bottom	Pemko	434	ANBL				
1	ea	Threshold							
1 Sign This door to remain unlocked during business hours,* per IBC									
Hardware Group 2 – Rear Door									
3	Each	Hinges	Hager			4-1/2"	5" x 4-1/2"		
1	Each	Panic	Van Duprin	QB	98 00				US28
1	Each	Lockset		937	L 140	53			626
1	Each	Closer	LON						Alum
1	Each	Threshold	Pemko						
1	Each	Door Bottom				368	CN		
1	Each	Weatherstripping	Pemko			303	A		
1	Each	Pesphole							
3	Each	Silencers							
Hardware Group 3 – Fire Riser Door									
3	Each	Hinges	Hager	AB750		5" x 5"		260	
1	Each	Lockset	Best	937	L 140	53			626
1	Each	Closer	LON						
1	Each	Threshold	Pemko			170	A		
1	Each	Door Bottom	Pemko			368	CN		
1	Each	Weatherstripping	Pemko			303	A		
3	Each	Silencers							
Hardware Group 4 – Single Use Restroom Door									
3	Each	Hinges	Hager	AB700				4-1/2"	5" x 4-1/2"
1	Each	Lockset	Best	937	L 140	53			626
1	Each	Closer	LON						
1	Each	Door	Slip	Rockwood	440				
2	Each	Kidaplate	Rockwood	12"					
3	Each	Silencers							320

DOOR SCHEDULE

[illegible]

FINISH SCHEDULE

PARTITION SCHEDULE									NOTES	MATERIAL	
ROOM NUMBER AND NAME	BASE				WALL					MATERIAL NUMBER	MATERIAL DESCRIPTION
	N	E	S	W	N	E	S	W			
101 – LEASE SPACE	B-2	B-2	B-2	B-2	W-9	W-9	W-9	W-9	1-HOUR RATED, SEAL ALL PENETRATIONS	B-1	6" RUBBER COVERED
102 – LEASE SPACE	B-2	B-2	B-2	B-2	W-9	W-9	W-9	W-9		B-2	NO BASE
103 – LEASE SPACE	B-2	B-2	B-2	B-2	W-9	W-9	W-9	W-9		B-3	6" HIGH SEALED CONCRETE CURB
104 – RISER ROOM	B-2	B-2	B-2	B-2	W-8	W-8	W-8	W-8		B-4	CART BUMPER, OFCI
105 – LEASE SPACE	B-1	B-1	B-1	B-1	W-1	W-1	W-1	W-1		B-5	COVERED TILE BASE
										W-1	PAINTED GYP. BOARD
										W-2	TILE/FRP/STAINLESS STEEL OVER 1/2" DENS SHIELD BACKER BOARD RE: WALL FINISH PLAN
										W-3	10'-0" X 3/4" PLYWOOD WAINSCOT WITH GYP. BOARD ABOVE (TAPE & SAND ONLY, 1-COAT FINISH)
										W-4	UNPAINTED MASONRY
										W-5	PAINTED MASONRY
										W-6	METAL WALK-IN BOX, BY MANUFACTURER
										W-7	FRP TO 10'-0" AFF WITH GYP. BOARD ABOVE (TAPE & SAND ONLY, 1-COAT FINISH)
										W-8	TAPE AND SAND ONLY, 1-COAT FINISH
										W-9	EXPOSED STUDS

design
SEQUENCE

350 SOUTH 200 EAST, #106
SALT LAKE CITY, UTAH 84111
P: 801.596.0691
DESIGNUTAH.COM



RETAIL BUILDING
SANTAQUIN PAD C

SANTAQUIN, UTAH

[illegible]

DATE:	SEPTEMBER 11, 2020
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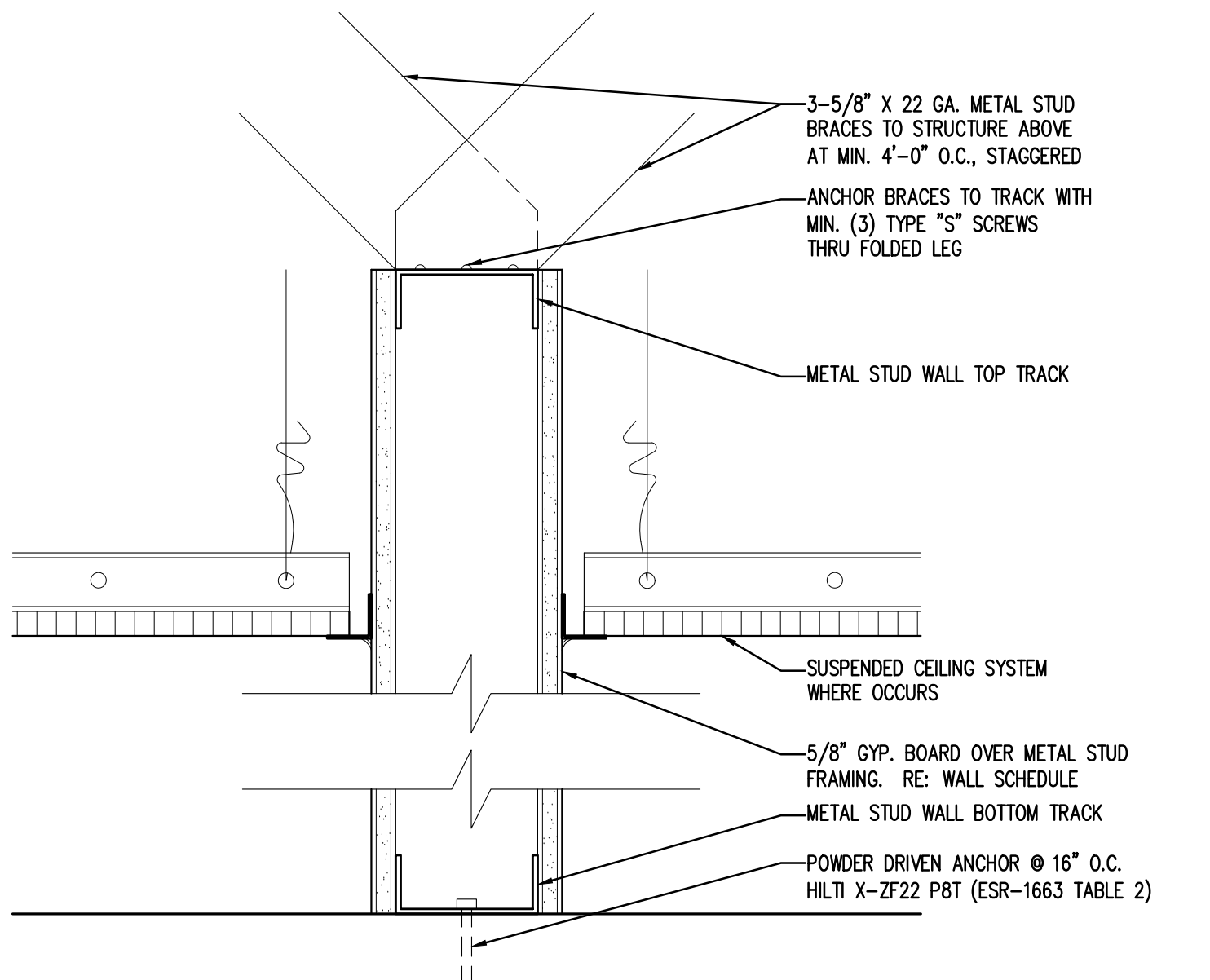
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SCHEDULES

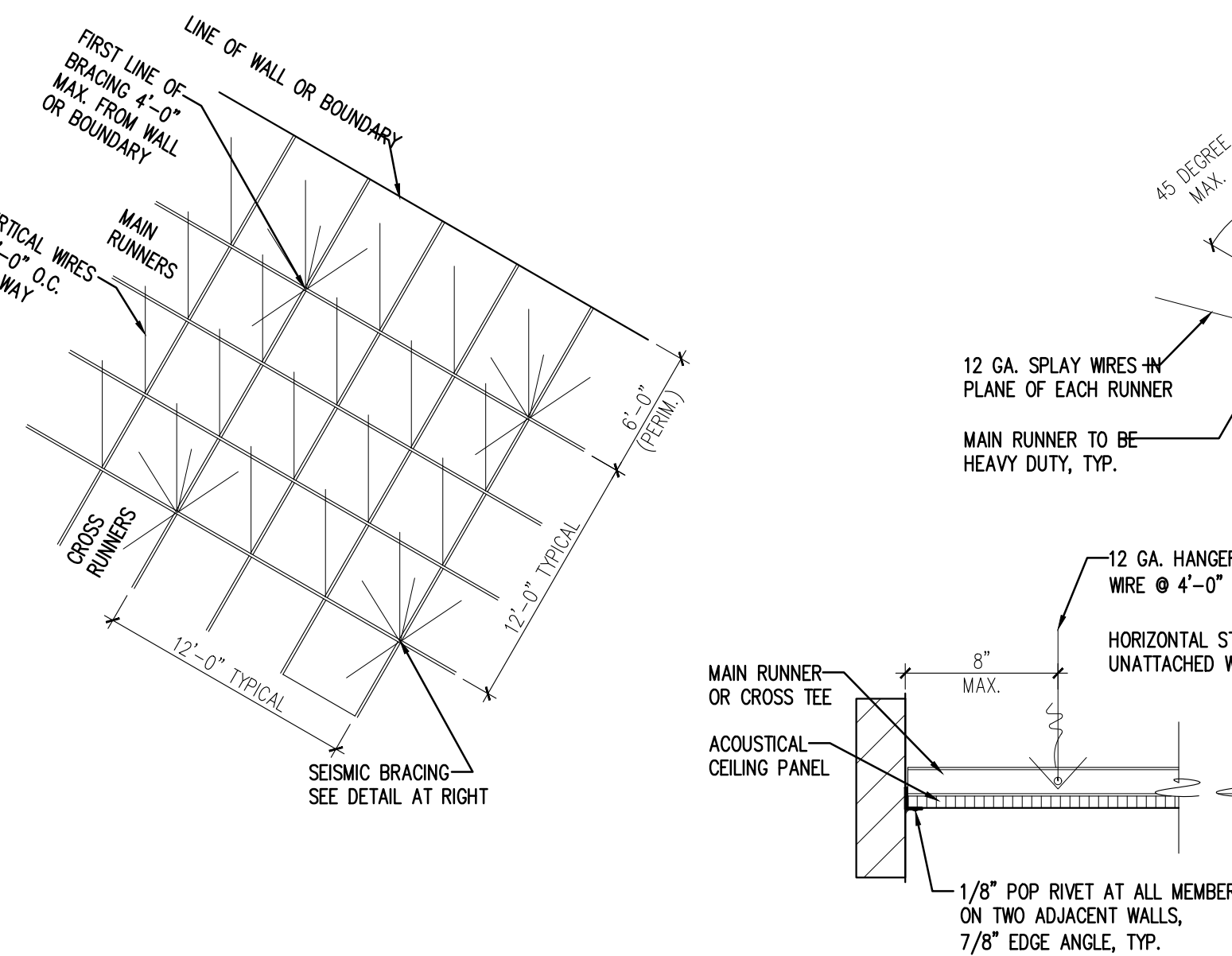
A6.1



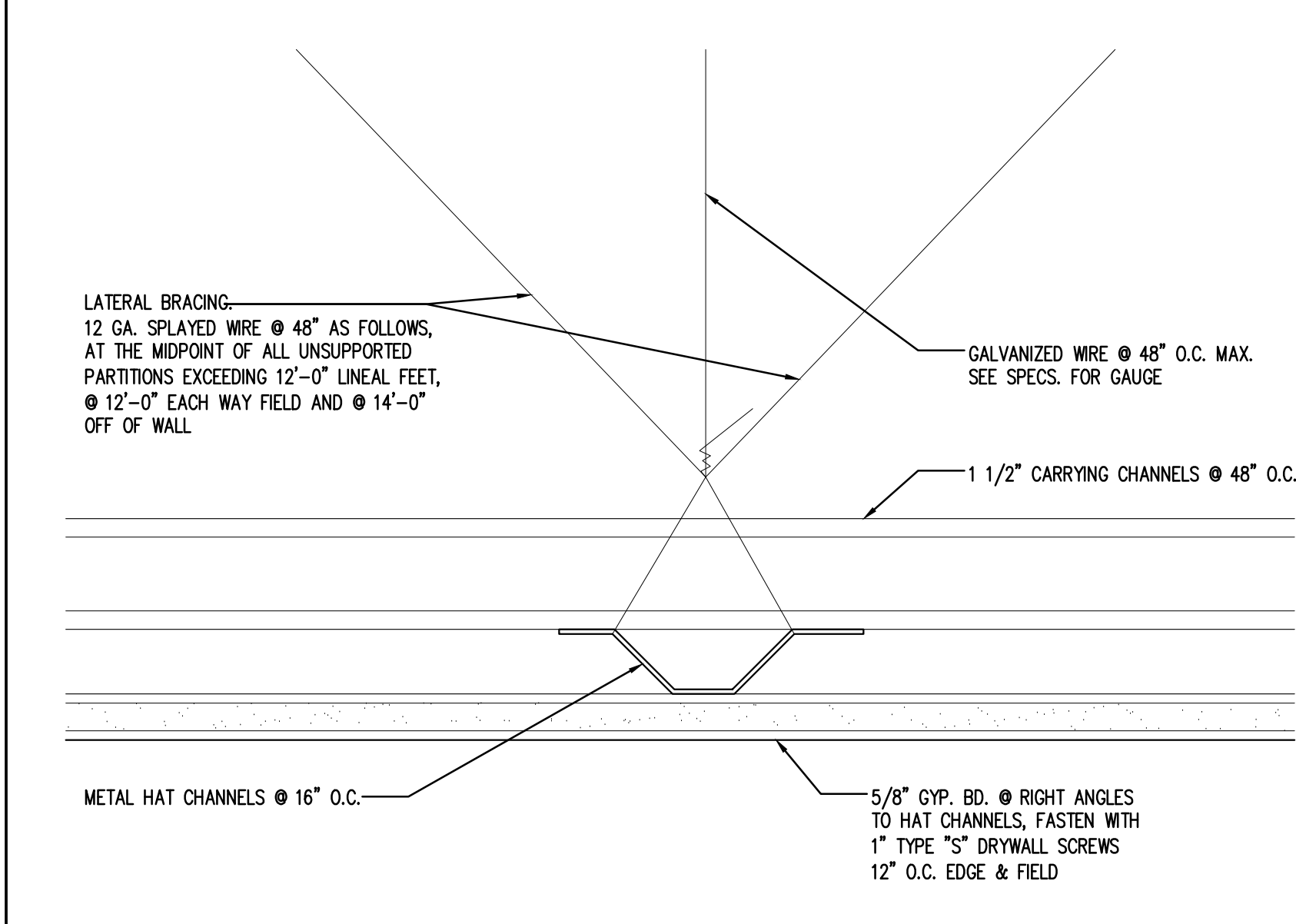
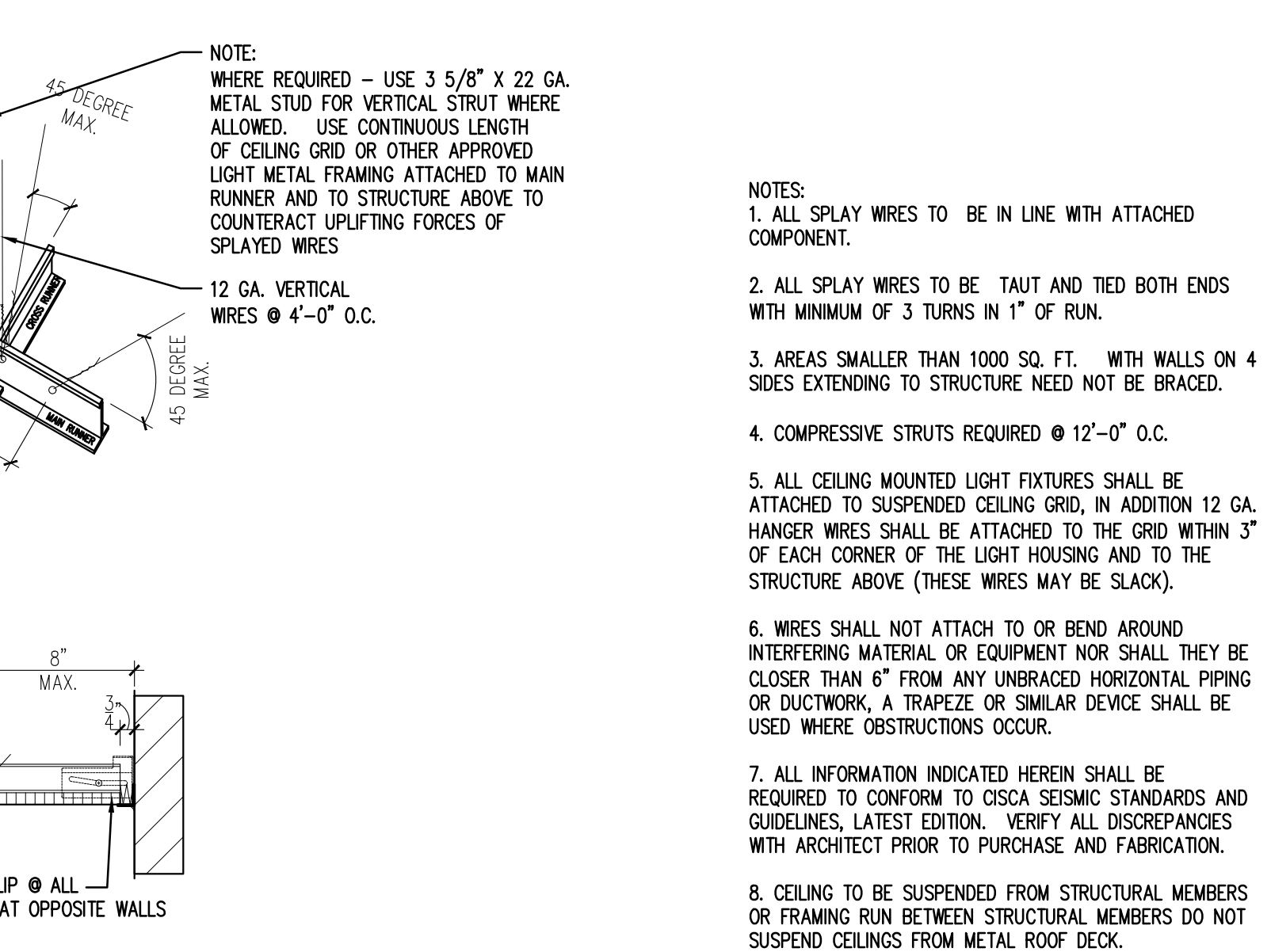
3 GYP. BOARD CEILING EDGE DETAIL
SCALE: 6" = 1'-0"



4 ACOUSTIC CEILING SEISMIC CLIP EDGE DETAIL
SCALE: 6" = 1'-0"

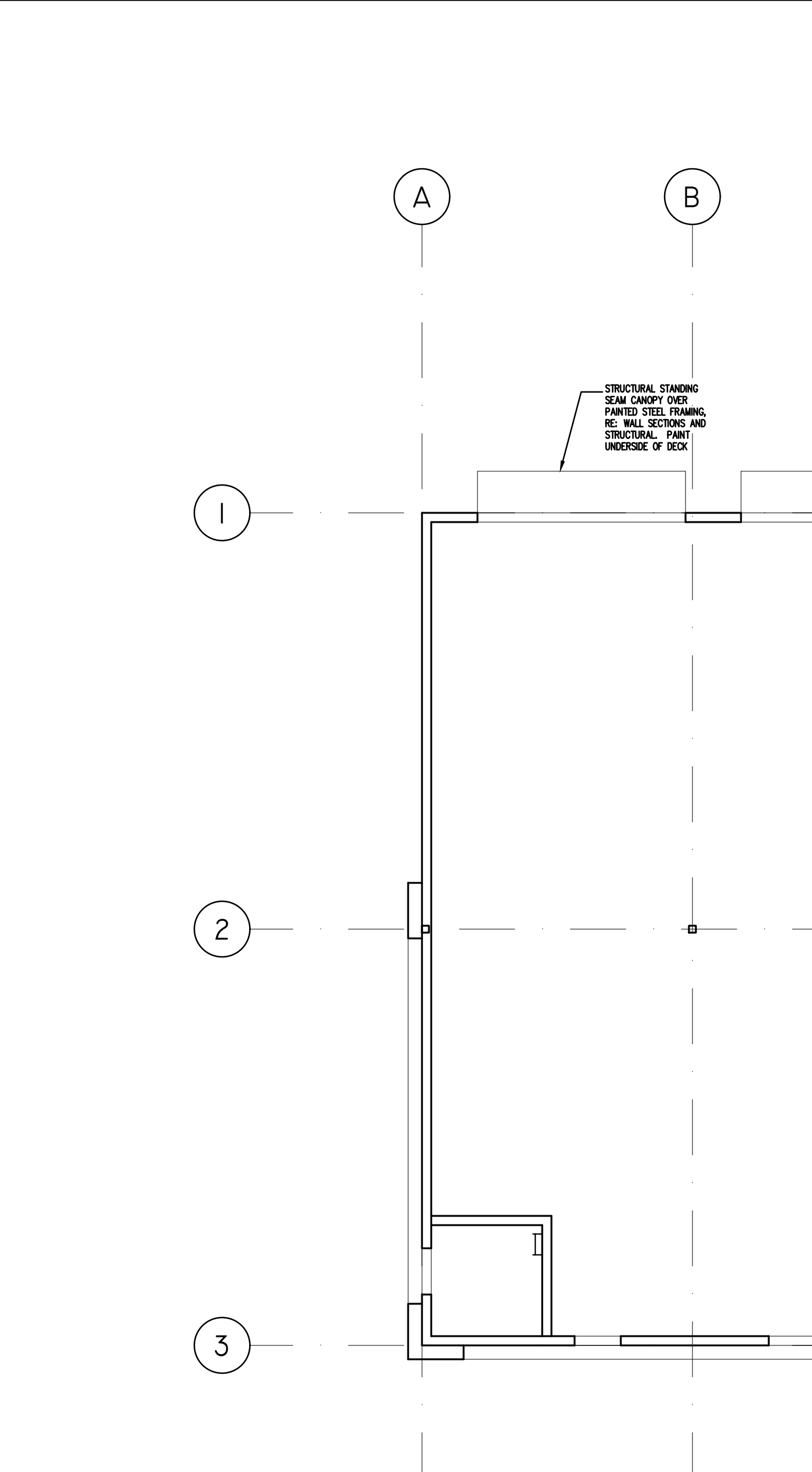


6 SLIP TRACK DETAIL
SCALE: 3" = 1'-0"

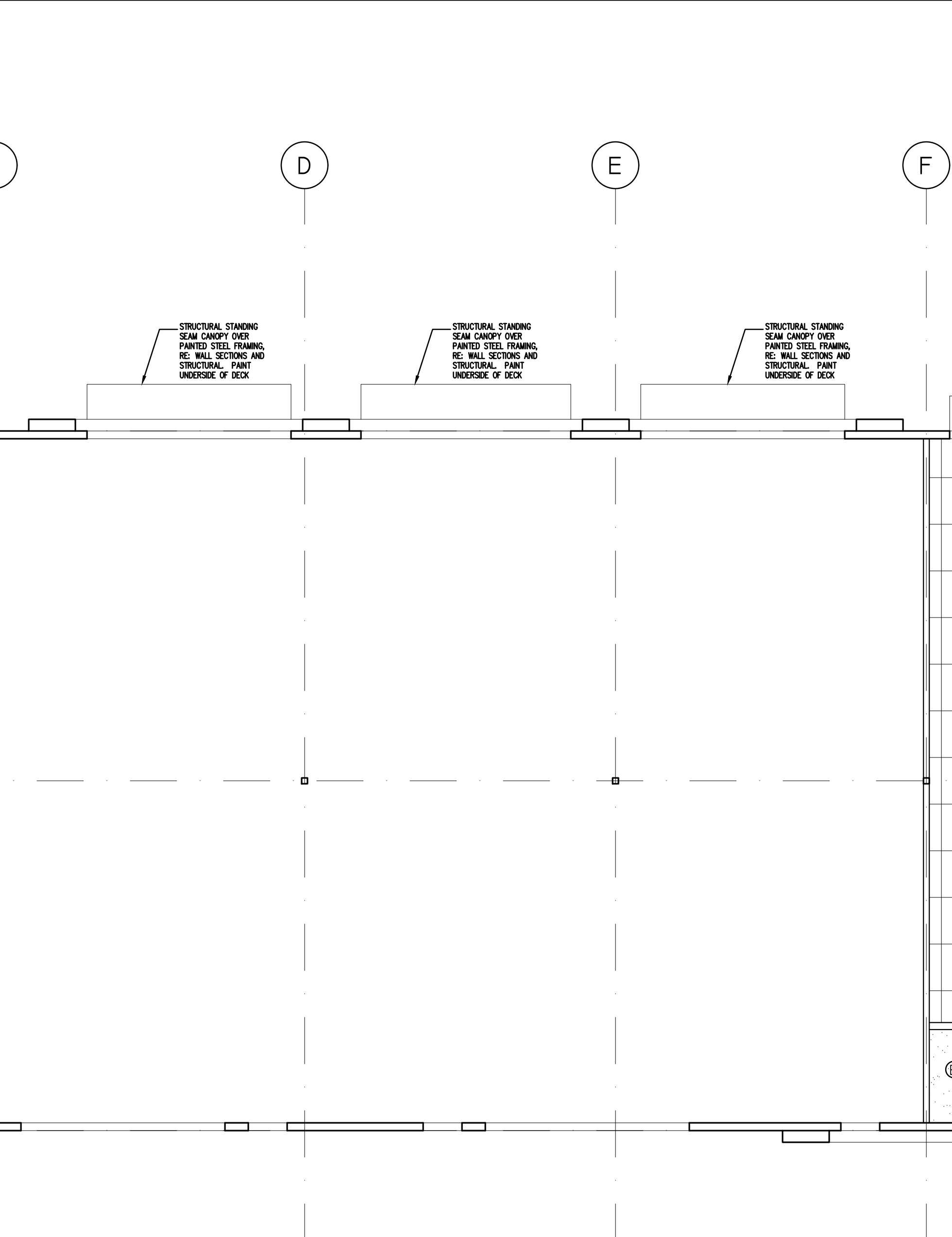


7 GYP. BOARD CEILING DETAIL
SCALE: 6" = 1'-0"

10 WALL BRACING DETAIL
SCALE: 3" = 1'-0"



15 TYP. SUSPENDED CEILING BRACING DETAILS
NTS



- NOTES:
1. ALL SPLAY WIRES TO BE IN LINE WITH ATTACHED COMPONENT.
 2. ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS WITH MINIMUM OF 3 TURNS IN 1" OF RUN.
 3. AREAS SMALLER THAN 1000 SQ. FT. WITH WALLS ON 4 SIDES EXTENDING TO STRUCTURE NEED NOT BE BRACED.
 4. COMPRESSIVE STRUTS REQUIRED @ 12'-0" O.C.
 5. ALL CEILING MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO SUSPENDED CEILING GRID. IN ADDITION 12 GA. HANGER WIRES SHALL BE ATTACHED TO THE GRID WITHIN 3" OF EACH CORNER OF THE LIGHT HOUSING AND TO THE STRUCTURE ABOVE (THESE WIRES MAY BE SLACK).
 6. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT NOR SHALL THEY BE CLOSER THAN 6" FROM ANY UNBRACED HORIZONTAL PIPING OR DUCTWORK. A TRAPEZE OR SIMILAR DEVICE SHALL BE USED WHERE OBSTRUCTIONS OCCUR.
 7. ALL INFORMATION INDICATED HEREIN SHALL BE REQUIRED TO CONFORM TO DISCA SEISMIC STANDARDS AND GUIDELINES, LATEST EDITION. VERIFY ALL DISCREPANCIES WITH ARCHITECT PRIOR TO PURCHASE AND FABRICATION.
 8. CEILING TO BE SUSPENDED FROM STRUCTURAL MEMBERS OR FRAMING RUN BETWEEN STRUCTURAL MEMBERS DO NOT SUSPEND CEILINGS FROM METAL ROOF DECK.

RETAIL BUILDING
SANTAQUIN PAD C

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2020
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO: 2010.01
CAD DWG FILE NO:

DRAWN BY: KV
DESIGNED BY: KV
DWG TYPE:
ARCHITECTURAL PHASE: PERMIT SET

SHEET TITLE

RC PLAN &
DETAILS

A7.2

RCP SCOPE OF WORK NOTES

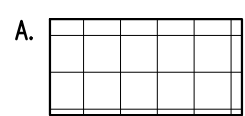

1. PROVIDE VINYL FACED CEILING TILES IN THE FOOD PREP AREAS, TYP.

RCP KEYED NOTES

① -

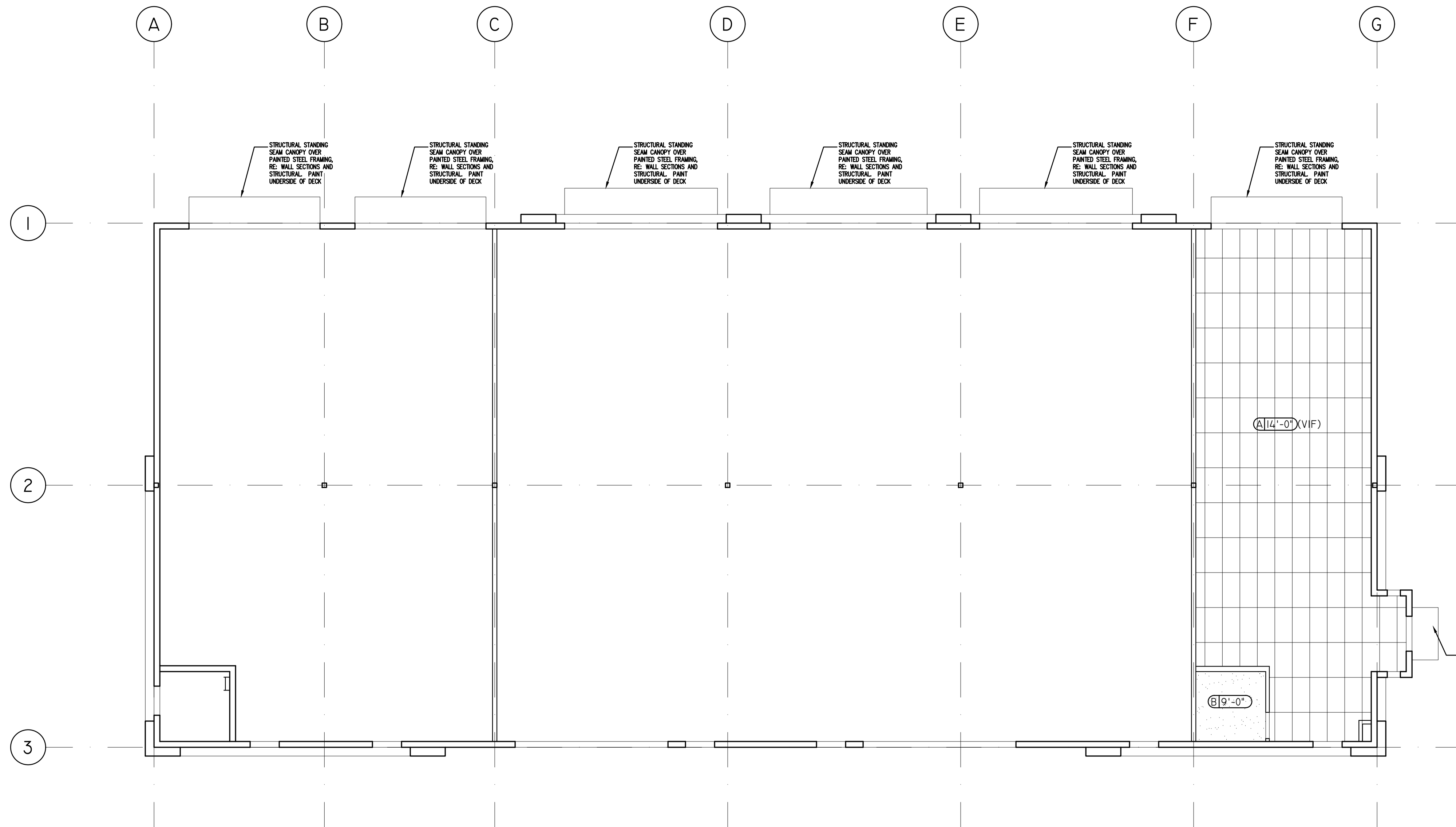
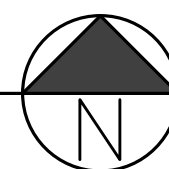
RCP LEGEND

CEILING FINISH: (A)(10'-0") CEILING ELEVATION

- A.  ARMSTRONG ULTIMA HEALTH ZONE SUSPENDED 2X2 LAY-IN ACOUSTIC CEILING TILE AND GRID. SEE DETAILS 4 & 15 ON SHEET A7.2. USE VINYL FACED TILES IN FOOD PREP AREAS.
- B.  PAINTED SUSPENDED GYP. BOARD CEILING. SEE DETAILS 3 & 7 ON SHEET A7.2

RC PLAN

SCALE: 1/8" = 1'-0"



STRUCTURAL NOTES:

A. GENERAL

- THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE STANDARD OR AISC SPECIFICATIONS AND DETAILS ON THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS.
- THESE DRAWINGS AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS ARE THE ONLY CONTRACT DOCUMENTS PROVIDED TO THE ARCHITECT. ANY CHANGES TO THE PROJECT SHALL BE HEREIN, NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC.).
- THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONSULTANTS' DRAWINGS. ALL DIMENSIONS OR CONFLICTS BETWEEN DIMENSIONS AND ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW BY ARCH ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. PREPARATION OF SHOP DRAWINGS FOR SHOP DRAWINGS ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
- THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
- THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS.
- OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
- DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS.
- TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED THEREIN AND ARE NOT NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS.
- DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM. HOWEVER CONTRACTORS/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETE. DESIGN OF ALL SHORING AND BRACING IS BY OTHERS AT NO ADDITIONAL COST TO THE OWNER.
- ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY, MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS.
- NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS. ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE AND ARE INSTRUMENTS OF SERVICE. FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN ANY PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS.
- WHERE THE WORD "SHALL" OCCURS IN THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS, IT IS CONSIDERED A MANDATORY OBLIGATION AND SYNONYMOUS WITH THE PHRASE "HAS DUTY TO".

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

- THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.11 AND 1705.12 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE "L". ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET XXX.
- SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF SPECIAL TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE. JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17, CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.
- ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR, ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER.
- STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, DRAG STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
- IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE "L".

C. BASIS OF DESIGN

- GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2015
- RISK CATEGORY: II
- ROOF LOADS:
 - FLAT ROOF SNOW LOAD, P_s : 29 PSF
 - GROUND SNOW LOAD, P_g : 39 PSF
 - SNOW EXPOSURE FACTOR, C_e : 1.0
 - SNOW LOAD IMPORTANCE FACTOR, I_s : 1.0
 - THERMAL FACTOR, C_t : 1.0
 - SLOPE FACTOR, C_d : 1.0
 - SNOW DRIFT, S_D : 0 PSF
 - LIVE LOAD + 20 PSF
 - DEAD LOAD + 20 PSF
 - RAIN INTENSITY, i : 1.5 IN/HR
- WIND DESIGN:
 - BASIC WIND SPEED (3 SECOND GUST): 102 MPH
 - ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD} : 80 MPH
 - WIND EXPOSURE: C
 - INTERNAL PRESSURE COEFFICIENT, G_c : 0.18
 - COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ASCE 7-10.
- SEISMIC DESIGN:
 - SEISMIC IMPORTANCE FACTOR, I_e : 1.0
 - SITE CLASS: D
 - MAPPED SPECTRAL RESPONSE ACCELERATIONS: $S_s = 1.717$, $S_1 = 0.637$
 - SPECTRAL RESPONSE COEFFICIENTS: $S_{DS} = 1.374$, $S_{D1} = 0.722$
 - SEISMIC DESIGN CATEGORY: D-DEFAULT
 - BASIC SEISMIC-FORCE-RESISTING SYSTEM: OCBF
 - DESIGN BASE SHEAR: $V_{ASD} = 0.184$ WT, $V_{ED} = 0.184$ WT
 - SEISMIC RESPONSE COEFFICIENT, C_s : 0.154
 - RESPONSE MODIFICATION FACTOR, R : 12
 - ANALYSIS PROCEDURE: ELF

D. FOUNDATION

- GENERAL:
 - DESIGN SOIL PRESSURE: 1500 PSF
 - ALL FOOTINGS SHALL BE PLACED ON MECHANICALLY COMPACTED FILL COMPACTED TO NOT LESS THAN 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557).
 - UNLESS NOTED OTHERWISE, ALL CONCRETE SLABS ON EARTH SHALL BEAR ON STRUCTURAL FILL COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY (ASTM D-1557).
 - TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ACTUAL STEP LOCATIONS SHALL BE AT THE CONTRACTOR'S DISCRETION BASED UPON FIELD CONDITIONS. ALL EXTERIOR FOUNDATIONS SHALL BEAR A MINIMUM OF 32" BELOW LOWEST ADJACENT FINAL GRADE.
 - ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. DESIGN AND ERECTION OF BRACING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH.
 - UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS SHALL BE CENTERED BELOW COLUMNS.
 - UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.), WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER. CONCRETE FOR FOOTINGS CAN BE PLACED IN EXCAVATED SOIL FORMS PROVIDED THAT THE DIMENSIONS ARE INCREASED 3" ON ALL SIDES.

E. CONCRETE

- ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS AND THE REQUIREMENTS LISTED BELOW:
 - FOOTINGS, GRADE BEAMS, FOUNDATION WALLS:
 - WHERE THE TOP OF THE ELEMENT IS EXPOSED AND IS LOCATED WITHIN 32" OF THE LOWEST ADJACENT GRADE (EXPOSURE CATEGORY F2):
 - 28 DAY COMPRESSIVE STRENGTH: 4500 PSI
 - MAXIMUM W/C RATIO: 0.45
 - MAXIMUM AGGREGATE SIZE: 3"
 - DESIGN AIR CONTENT: 6.0%
 - FIELD TOLERANCE AIR CONTENT OF $\pm 1.5\%$
 - WHERE THE TOP OF THE ELEMENT IS NOT EXPOSED (EXPOSURE CATEGORY F1):
 - 28 DAY COMPRESSIVE STRENGTH: 3000 PSI
 - INTERIOR SLABS ON GRADE (EXPOSURE CATEGORY F0):
 - 28 DAY COMPRESSIVE STRENGTH: 3000 PSI
 - INTERIOR SUSPENDED SLABS (EXPOSURE CATEGORY F0):
 - 28 DAY COMPRESSIVE STRENGTH: 3000 PSI
- WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602.
- NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE PLACEMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC.
- WHERE NEW CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE JOINT SHALL BE CLEAN AND FREE OF LANTAGE. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE PREWETTED AND STANDING WATER REMOVED.

F. ANCHOR BOLTS/EMBEDDED BOLTS

- ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR AISC SPECIFIED SPACING PER AISI 308.1.3, WHERE HOLE SIZES DO NOT COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING:
 - AT BRACED FRAMES & MOMENT RESISTING FRAMES - ASTM F1554 GRADE 105 HEADED BOLTS (ASTM A449 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER)
 - AT WOOD STUD WALLS - ASTM A-307 GRADE 36 HEADED BOLTS. ANCHOR BOLTS IN TREATED LUMBER SHALL BE GALVANIZED OR STAINLESS STEEL. SEE TIMBER NOTES FOR MORE INFORMATION.
 - AT ALL OTHER ANCHOR BOLTS (UNLESS NOTED OTHERWISE) - ASTM F1554 GRADE 36 HEADED BOLTS (ASTM A449 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER)
 - EMBEDDED BOLTS IN MASONRY SHALL BE (UNLESS NOTED OTHERWISE) ASTM A-307 GRADE 36 HEADED BOLTS
- TYPICAL ANCHOR BOLT DETAIL FOR DEFINITIONS OF EMBEDMENT LENGTH, ETC.
- FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO PLACING CONCRETE AND/OR GROUT.
- IF THREADED RODS ARE USED AS PERMITTED ABOVE, THEY SHALL BE CLEAR OF SOIL AND DIRT.
- WHERE REQUIRED FOR ERECTION, HOLES LARGER THAN OVERSIZED MAY BE PERMITTED WITH THE USE OF STEEL PLATE WASHERS AT THE DISCRETION OF THE STRUCTURAL ENGINEER.

G. ADHESIVE/MECHANICAL ANCHORS

- WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST-INSTALLED ANCHORS WHERE CAST-IN-PLACE ANCHORS ARE SPECIFIED IN THE DRAWINGS.
- WHERE STRUCTURAL DETAILS SPECIFY SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR ANCHORS, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED, WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. REQUESTS FOR APPROVAL SHALL INCLUDE AN ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN INTENT.
- ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, IAPMO, OR APPROVED EQUAL), AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL MANUFACTURER AND INSTALLATION INSTRUCTIONS.
- ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
- UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE DRY AND FREE OF WATER FOR 24 HOURS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN WET OR DAMP HOLES.
- CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI) RELATIVE TO SUBSTRATE TEMPERATURE.
- INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT TENSION TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE AICRISI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH AICRISI (ICC-ES E-1082) OR AICRISI (ICC-ES E-1082).
- UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:
 - HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200-A (ESR-3187)
 - SIMPSON SET-3G (ESR-4057), OR A1-XP (ESR-0263)
 - DEWALT PURURE 110+ (ESR-3298), OR ACQUO-GOLD (ESR-4027-COLD WEATHER)
- UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
 - HILTI KWIK BOLT T2 (ESR-1917)
 - SIMPSON STRONG-BOLT 2 (ESR-3037)
- UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
 - SIMPSON TITEN HD (ESR-2713)
 - DEWALT SCREW-LOCK 1+ (ESR-2526)
 - HILTI KWIK HUS-EZ (ESR-3027)
- THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE. THE SPECIAL INSPECTION SCHEDULE REPORT, TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
- REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 1 INCH, WHICH EVER IS LARGER, OF SOUND CONCRETE MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. AT CONTRACTOR'S OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
- LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

H. REINFORCING STEEL

- REINFORCING BAR STRENGTH REQUIREMENTS:
 - ALL REINFORCING BARS SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS, ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED IN ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.
 - HEADED SHEAR STUD ASSEMBLIES SHALL CONFORM TO ASTM A1034.
 - STEEL DISCONTINUOUS FIBER REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A820 AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100.
 - HEADED DEFORMED BARS SHALL CONFORM TO ASTM A670. OBSTRUCTIONS OR INTERRUPTIONS OF THE BAR DEFORMATIONS, IF ANY, SHALL NOT EXTEND MORE THAN 2 BAR DIAMETERS FROM THE BEARING FACE OF THE HEAD.
 - ALL REINFORCING STEEL SHALL BE TIED IN PLACE AND ADEQUATELY SUPPORTED PRIOR TO PLACING CONCRETE. WET STABBING OF ANY REINFORCING STEEL IS NOT PERMITTED, UNLESS SPECIFICALLY DETAILED OTHERWISE OR APPROVED BY THE ENGINEER.
 - ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
 - UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE:
 - CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: ... 3"
 - EXPOSED TO EARTH OR WEATHER:
 - #8 & LARGER: 2"
 - #5 & SMALLER: ... 1-1/2"
 - NOT EXPOSED TO WEATHER OR EARTH:
 - SLABS, WALLS, JOISTS #1 & SMALLER: ... 3/4"
 - BEAMS, COLUMNS, MAIN REINFORCING OR TIES: ... 1-1/2"
 - SLAB ON GRADE: 1"
- PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE.
- EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE.
- REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT, WHERE THESE ARE USED, SPLICES ON ADJACENT BARS SHALL BE STAGGERED AT LEAST 24 INCHES ALONG THE LENGTH OF THE BARS.
- ALL VERTICAL REINFORCING IN STRUCTURAL ELEMENTS ABOVE SHALL BE SPLICED WITH MATCHING DOWELS EMBEDDED WITHIN THE FOOTINGS OR STRUCTURE BELOW. SPLICE LENGTHS SHALL COMPLY WITH REBAR LAP SCHEDULE. DOWELS INTO FOOTINGS SHALL TERMINATE WITH A STANDARD HOOK, AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING, BUT NEED NOT EXTEND MORE THAN 20" INTO FOOTING.
- DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS, WHERE REINFORCING IS WELDED, USE ASTM A-706 REINFORCING.
- REINFORCING CAGES AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED TIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED ON CONCRETE DOBIES.
- UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL SHALL MEET THE STANDARDS SET FORTH IN ACI 318/318R-14, UNLESS OTHERWISE PERMITTED BY THE ENGINEER. ALL REINFORCEMENT SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE PERMITTED BY THE ENGINEER.
- UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT BE IN CONTACT WITH REINFORCING STEEL.

I. STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, WITH "COMMENTARY" AND "SUPPLEMENTS" AS REQUIRED BY BUILDING CODE.
- ANSAISO 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" WITH "COMMENTARY" AND "SUPPLEMENTS" AS REQUIRED BY BUILDING CODE.
- THE GRAPHIC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES EXCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, AND 4.4.2.
- ALL SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
- ALL GRAPHIC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
- AWES D1.1 AND 1.3, "STRUCTURAL WELDING CODE" (EXCEPT SPECIFIC ITEMS DO NOT APPLY IF THEY CONFLICT WITH AISC).
- AWES D1.8, "STRUCTURAL WELDING CODE - SEISMIC".
- STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING:
 - DEFORMED BAR ANCHORS (DBA) - ASTM A-498, WELDED IN ACCORDANCE WITH AWS D1.1
 - HEADED STUD ANCHORS (HSA) - ASTM A-108, GRADE 1015 STEEL AND WELDED IN ACCORDANCE WITH AWS D1.1 FOR TYPE "B" - USE 3/4" DIAMETER STUDS, UNLESS NOTED OTHERWISE.
 - THREADED ROD - ASTM A-449
 - NON-SHRINK GROUT - ASTM C110, NON-SHRINK GROUT SHALL BE PRE-PACKAGED, NON-METALLIC, WITH A 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI.
 - CONNECTIONS SHALL COMPLY WITH THE STRUCTURAL DRAWINGS UNLESS WRITTEN APPROVAL TO APPROVAL IS GIVEN BY THE STRUCTURAL ENGINEER.
 - ALL SHOP FABRICATIONS SHALL BE PERFORMED BY AN APPROVED FABRICATOR IN ACCORDANCE WITH SECTIONS 1702 AND 1704 OF THE IBC OR WITH SHOP INSPECTION BY AN INDEPENDENT AGENCY IN ACCORDANCE WITH SECTION 1704.2.5 OF THE IBC.
- WELDING:
 - ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN ACCORDANCE WITH ANSAISO D1.1 (LATEST EDITION).
 - USE E-70XX ELECTRODES UNLESS NOTED OTHERWISE. E-60XX MAY BE USED FOR WELDING STEEL.
 - ALL INTERSECTING STEEL SHAPES WHICH ARE NOT CONNECTED WITH BOLTS SHALL BE WELDED TOGETHER WITH A FILLET WELD ALL AROUND UNLESS NOTED OTHERWISE. WHERE WELD SIZES ARE NOT SHOWN, USE THE FOLLOWING:
 - WHERE THE THICKNESS OF THE CONNECTED PARTS IS EQUAL TO OR THICKER THAN 1/4", WELD SIZE SHALL BE 1/16" LESS THAN THE THICKNESS OF THE THINNEST PART.
 - WHERE ANY OF THE CONNECTED PARTS IS LESS THAN 1/4" THICK, WELD SIZE SHALL BE THE SAME AS THE THICKNESS OF THE THINNEST PART.
 - WELDING OF HSA'S (HEADED STUD ANCHORS) AND DBA'S (DEFORMED BAR ANCHORS) SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND AWS D1.1 REINFORCING BARS SHALL NOT BE SUBSTITUTED FOR HSA'S OR DBA'S.
 - WHEREVER POSSIBLE, WELDS SHALL BE SHOP WELDS. SPECIAL CONSIDERATIONS, SUCH AS ITEMS WHICH MAY NEED ADJUSTMENT AT THE SITE, FOR WELDS THAT ARE MADE ON FIELD WELDS, WHERE QUESTIONS OR DISCREPANCIES OCCUR THE CONTRACTOR SHALL COORDINATE THE WORK BETWEEN THE SHOP FABRICATOR AND THE STEEL ERECTOR.
- SPECIAL PROVISIONS FOR SFPS (SEISMIC FORCE RESISTING SYSTEM):
 - ALL WELDS DESIGNATED AS DEMAND CRITICAL WELDS SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSES 6.1, 6.2, AND 6.3 OF AWS D1.8.
 - ALL OTHER WELDS THAT ARE PART OF THE SFPS SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSE 6.1 OF AWS D1.8.
 - BUT WELDS IN MEMBERS WITH DIFFERENT THICKNESSES, SUCH AS COLUMN SPLICES, SHALL BE TAPERED AND MADE IN SUCH A MANNER THAT THE TRANSITION DOES NOT EXCEED IN 2-1/2 INCHES. THE TRANSITION SHALL BE ACCOMPLISHED BY CHAMFERING THE THICKER PART, TAPERING THE WIDER PART, SLOPING THE WELD METAL OR BY A COMBINATION OF THESE.
- BOLTING:
 - UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL TO STEEL CONNECTIONS SHALL USE HIGH STRENGTH BOLTS CONFORMING TO ASTM F1552 OR A325.
 - UNLESS NOTED OTHERWISE, ALL BOLTING IS CLASSIFIED AS NON-SLIP CRITICAL BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION, WITH ALL FLIES OF THE JOINT IN FIRM CONTACT.
 - WHERE THE HEAD OF THE BOLT IS IN THE OUTER PLY, AN ASTM F436 WASHER OR 5/16" THICK COMMON PLATE WASHER SHALL BE USED AS REQUIRED TO COMPLETELY COVER THE HOLE.
 - BOLTS SHALL BE CENTERED IN SLOTTED HOLES, UNLESS NOTED OTHERWISE.
 - WHERE A STEEL BEAM TO BEAM CONNECTION IS NOT SHOWN, PROVIDE AN AISC STANDARD FRAMED CONNECTION SIZED FOR 1/2 OF THE TOTAL LOAD CAPACITY OF THE BEAM FOR THE SPAN AND STEEL SPECIFIED.
- METAL DECKING:
 - UNLESS NOTED OTHERWISE, METAL FLOOR DECK SHALL BE 20 GAUGE TYPE B COMPOSITE, GALVANIZED, UNVENTED STEEL DECK, UNLESS NOTED OTHERWISE, ATTACH TO SUPPORTING STRUCTURE WITH 3/4" DIAMETER WELDS AT 12" MAXIMUM SPACING. ATTACH SIDE SEAMS WITH BUTT JUNCTION OR SIDE-SEAM SCREWS AT 12" MAXIMUM SPACING. AN HSA FIELD-WELDED THROUGH THE DECK MAY SUBSTITUTE FOR THE SIDE-SEAM SCREWS.
 - ALL DECK SHALL BE CONTINUOUS OVER 3-SPANS, WHERE NOT POSSIBLE, THE DECK SUPPLIER/CONTRACTOR SHALL PROVIDE HEAVY GAUGE DECK AS NEEDED TO PROVIDE THE EQUIVALENT PERFORMANCE OF THE DECK OF DECK WITH 3-SPAN CONTINUITY.
 - SEE TYPICAL DETAILS FOR SUPPORT OF DECK AT OPENINGS.
 - PROVIDE L2"x2"x3/16" FOR DECK SUPPORT AT LOCATIONS WHERE COLUMNS EXTEND THROUGH DECK.
 - PAINTED STEEL DECK SHALL CONFORM TO ASTM A1008 AND GALVANIZED STEEL DECK SHALL CONFORM TO ASTM A593.
 - BUILDING ELEMENTS MAY BE SUPPORTED BY HANGING DIRECTLY FROM METAL DECKING, PROVIDED THAT THE TOTAL WEIGHT PER CONNECTION IS LESS THAN 50 LBS AND THAT THE ATTACHMENT TO THE DECKING IS DISTRIBUTED ACROSS AT LEAST TWO RIBS AND SPACED AT LEAST 6 FEET APART IN ANY DIRECTION.
- PROVIDE FULL DEPTH WED STIFFENER PLATES AT EACH SIDE OF STEEL BEAMS AT ALL BEARING POINTS EXCEPT SECONDARY FRAMING POINTS. STIFFENERS SHALL BE FULLY WELDED, UNLESS NOTED OTHERWISE AND SHALL BE WELDED BOTH SIDES WITH FILLET WELDS ALL AROUND.

< 8 1/4"	8 1/4"	12"
8 1/4" x 8 1/4" x 1/2"	8 1/4" x 8 1/4" x 1/2"	8 1/4" x 8 1/4" x 1/2"
12" x 12" x 1/2"	12" x 12" x 1/2"	12" x 12" x 1/2"
- UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE:

8 1/4" x 8 1/4" x 1/2"	8 1/4" x 8 1/4" x 1/2"	8 1/4" x 8 1/4" x 1/2"
12" x 12" x 1/2"	12" x 12" x 1/2"	12" x 12" x 1/2"
- FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC. AS NOTED IN THE PROJECT SPECIFICATIONS.
- WHEN DETERMINING THE FIRE RESISTANCE OF ASSEMBLIES, USE THE FOLLOWING: STEEL ROOF MEMBERS ARE CONSIDERED UN-RESTRAINED AND STEEL FLOOR FRAMING MEMBERS ARE CONSIDERED RESTRAINED.
- UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE ERECTED WITH THE NATURAL CROWN UP.
- UNLESS OTHERWISE SHOWN OR DETAILED IN THE PLANS, ALL STEEL COLUMNS, BEAMS, BRACES, STRUTS, ETC. SHALL BE CONTINUOUS BETWEEN CONNECTIONS OR SUPPORTS. SPLICES IN MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

J. STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS

- STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ELEMENTS, PARTS, OR PORTIONS OF THE OVERALL STRUCTURAL SYSTEM THAT ARE INDICATED OR REFERRED TO ON THESE DRAWINGS AND THAT ARE CRITICAL TO THE PERFORMANCE OF THE OVERALL STRUCTURAL SYSTEM. DESIGN CRITERIA HAS BEEN PROVIDED FOR THESE ITEMS IN THE STRUCTURAL NOTES, PLANS, AND DETAILS.
 - STRUCTURAL DEFERRED SUBMITTALS ARE COMPLETE PACKAGES TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL DELEGATED DESIGN ITEMS AND THEIR CONNECTIONS. DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR DESIGN.
 - ARW ENGINEERS WILL REVIEW STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
 - STRUCTURAL DELEGATED DESIGN COMPONENTS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE BUILDING OFFICIAL.
 - STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO:
 - PRE-MANUFACTURED WOOD TRUSSES, BEAVING BRIDGES, BRIDGING CONNECTIONS, TRUSS HANGERS, AND RELATED COMPONENTS.
- K. NON-STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS**
- NON-STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ITEMS NOT INCLUDED IN THE STRUCTURAL DELEGATED DESIGN SECTION. THESE ARE ITEMS THAT ARE NOT CRITICAL TO THE OVERALL PERFORMANCE OF THE STRUCTURAL SYSTEM BUT THAT IMPART LOADS AND FORCES TO THE STRUCTURAL SYSTEM.
 - NON-STRUCTURAL DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
 - ARW ENGINEERS WILL REVIEW NON-STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
 - IF THE STRUCTURAL DRAWINGS INCLUDE LOADS TO ACCOMMODATE NON-STRUCTURAL ELEMENTS, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL ELEMENTS COMPLY WITH THE LOADING CRITERIA PROVIDED HEREIN. SUCH DOCUMENTATION SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN. IF THE NON-STRUCTURAL DEFERRED SUBMITTAL INDICATES THAT THE ELEMENT WILL IMPART FORCES IN EXCESS OF THOSE INDICATED ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL SUBMIT A DETAILED GRAPHICAL REPRESENTATION OF THOSE DESIGN LOADS, INCLUDING MAGNITUDE, AND LOCATION. THE GRAPHIC SHALL BE ACCOMPANIED BY DOCUMENTATION JUSTIFYING THE NON-STRUCTURAL ELEMENT DESIGN COMPLIES WITH THE LOADING CRITERIA PROVIDED HEREIN. THE LETTER SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
 - NON-STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS SHALL INCLUDE, BUT ARE NOT LIMITED TO:
 - COLD FORMED STEEL STUDS / JOISTS / HEADERS / JAMBS / TRUSSES.
 - SEISMIC BRACING OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS WHERE REQUIRED BY THE MOST RECENT VERSION OF ASCE 7 AND THE PROJECT CONTRACT DOCUMENTS.

Structural Sheet Index	
SHEET NUMBER	SHEET NAME
S001	STRUCTURAL NOTES
S002	SCHEDULES
S003	SCHEDULES
S101	STRUCTURAL PLANS
S201	DETAILS
S202	DETAILS
S203	DETAILS

LEGEND OF SYMBOLS AND ABBREVIATIONS	
AB	= ANCHOR BOLT
ABV	= ABOVE
ABW	= BELOW
BLW	= BELOW
BN	= BOUNDARY NAILING
CL	= CENTERLINE
COL	= COLUMN
CONC	= CONCRETE
CP	= CONCRETE PIER
DC	= DEMAND CRITICAL
DBA	= DEFORMED BAR ANCHOR
DBE	= DECK BEARING ELEVATION
EN	= EDGE NAILING
EDG	= EDGE OF DECK
FDN	= FOUNDATION
FTG	= FOOTING
FFE	= FINISHED FLOOR ELEVATION
FS	= FINISHED SURFACE
KB	= KICKER BRACE
MAX	= MAXIMUM
MECH	= MECHANICAL
MEZZ	= MEZZANINE
MIN	= MINIMUM
FS, FS	= FAR SIDE
OAE	= OR APPROVED EQUAL
OPP	= OPPOSITE
PL	= PLATE
REIN	= REINFORCING
REQ	= REQUIRED
SIM	= SIMILAR
TOT	= TOP OF BEAM ELEVATION
TOB	= TOP OF BEARING WALL
TOF	= TOP OF FOOTING
TOS	= TOP OF STEEL ELEVATION
UNO	= UNLESS NOTED OTHERWISE

L. TIMBER

- WOOD GRADING (UNLESS NOTED OTHERWISE):
 - ALL FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH CLEARLY MARKED WITH A STAMP BY WFWA APPROVED AGENCY AND SHALL BE GRADED AS FOLLOWS:
 - HORIZONTAL MEMBERS: JOISTS & RAFTERS: NO. 2, BEAMS & STRINGERS: NO. 2.
 - VERTICAL MEMBERS: POST & TIMBERS: NO. 1, STUDS: NO. 2.
 - ALL FRAMING IN CONTACT WITH FOOTINGS, FOUNDATIONS OR SLABS ON GRADE SHALL BE PRESSURE TREATED OR TIMBERSTRAND LSL TREATED LUMBER WITH EQUIVALENT STRUS JOIST GRADES TO TYPICAL FRAMING MEMBERS.
 - UNLESS NOTED OTHERWISE, ALL ENGINEERED LUMBER SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

MODULUS OF ELASTICITY	FLEXURAL STRESS RATING
LVL: 2,000,000 PSI	2,900 PSI
PSL: 2,000,000 PSI	2,900 PSI
LSL: 1,550,000 PSI	3,325 PSI
- SHEATHING SHALL BE APA RATED SHEATHING (EXPOSURE I, EXTERIOR GLUE AND PANEL INDEX RATING AS NOTED BELOW UNLESS NOTED OTHERWISE):

LOCATION	THICKNESS	PANEL INDEX
WALLS	7/16"	32/16
ROOFS	19/32"	32/16
- INDIVIDUAL PIECES OF SHEATHING AT ROOF, FLOOR, AND SHEAR WALLS SHALL NOT BE SMALLER THAN 24" IN EITHER DIRECTION AND SHALL SPAN A MINIMUM OF 16" WITHIN EACH DIRECTION.
- ALL 2X32" FLOOR SHEATHING SHALL BE TONGUE AND GROOVE UNLESS NOTED OTHERWISE.
- CONNECTIONS, FASTENERS, AND ADHESIVE:
 - ALL BOLTS IN WOOD SHALL BE ASTM A307 AND SHALL HAVE HARDENED WASHERS UNDER ASTM A563 HEAVY HEX NUT AND BOLT HEADS.
 - UNLESS NOTED OTHERWISE, 10d COMMON (0.148) NAILS SHALL BE USED TO FASTEN ALL PLYWOOD ROOF SHEATHING TO SUPPORTING TRUSSES, JOISTS, OR STUDS.
 - BOUNDARY NAILING "BN": 6" O.C. AT ALL BEARING WALLS, SHEAR WALLS, BLOCKING, AND WHERE OTHERWISE INDICATED IN THE STRUCTURAL DRAWINGS.
 - PANEL EDGE NAILING "EN": 6" O.C. AT ALL OTHER EDGES AND PANEL EDGES.
 - PANEL FIELD NAILING "FN": 12" O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL.
- UNLESS NOTED OTHERWISE, IN THE WOOD SHEAR WALL SCHEDULE ON SHEET XXXXXX, 8d COMMON (0.131) NAILS SHALL BE USED TO FASTEN ALL PLYWOOD SHEAR WALL SHEATHING TO STUDS AND BLOCKING AS FOLLOWS:
 - PANEL EDGE NAILING "FN": 6" O.C.
 - PANEL FIELD NAILING "FN": 12" O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL.
 - NAILS SHALL BE GALVANIZED OR STAINLESS STEEL AT EXPOSED LOCATIONS OR IN TREATED WOOD (SEE NOTE BELOW FOR FASTENERS CONNECTED TO OR IN CONTACT WITH TREATED WOOD). THE HEAD OF ALL NAILS SHALL BE DRIVEN FLUSH WITH THE SURFACE OF THE SHEATHING.
- EXCEPT WHERE NOTED OTHERWISE, THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL BE LESS THAN THAT SET FORTH IN THE TABLE BELOW. CONNECTIONS FOR MULTIPLE PIECES OF ENGINEERED LUMBER PIECES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- UNLESS NOTED OTHERWISE, ALL NAILS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

COMMON	SHANK	HEAD	LENGTH	MIN. PENETRATION
NAIL SIZE	DIAMETER	DIAMETER	2"	INTO SUPPORT MEMBER

NOTES:
PENETRATION IS THE DEPTH OF EMBEDMENT OF THE STAPLE OR NAIL INTO THE MAIN MEMBER REQUIRED TO ATTAIN ITS FULL CAPACITY (SHEAR VALUE) FOR LATERAL LOADING.

BEAM TOP BARS	NWC	3000 PSI	22	29	8	29	38	11	36	47	14	43	56	16	63	82	19	72	94	22	81	105	25	90	117	27	98	127	30
SLAB ON GRADE	NWC	3000 PSI	12	16	8	14	18	8	17	22	10	20	26	12	32	42	13	42	55	15	53	69	17	69	90	19	76	99	30

2. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.

3. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 202)

TYP. FOOTING SECTION TYP. FOOTING SECTION
W/ TOP & BOTTOM REINF.

	12.00		0	

- a. LAP ONE STRAP STACKED ON TOP OF THE OTHER STRAP.
- b. INSTALL STRAPS SIDE BY SIDE - TO DO THIS A LARGER BLOCK MUST BE USED. THE BLOCK MUST BE ON SOLID PIECE.

8. STRAP TO BE INSTALLED TIGHT.



#9	1'-3"	11' 3/4"	1'-7"
#10	1'-5"	1'-1 1/4"	1'-10"
#11	1'-7"	1'-2 3/4"	2'-0"



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1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

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[illegible]

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CAD DWG FILE NO:	

DESIGNED BY:	A. Higgs
DWG TYPE:	
PROJECT PHASE:	

SHEET TITLE

SCHEDULES

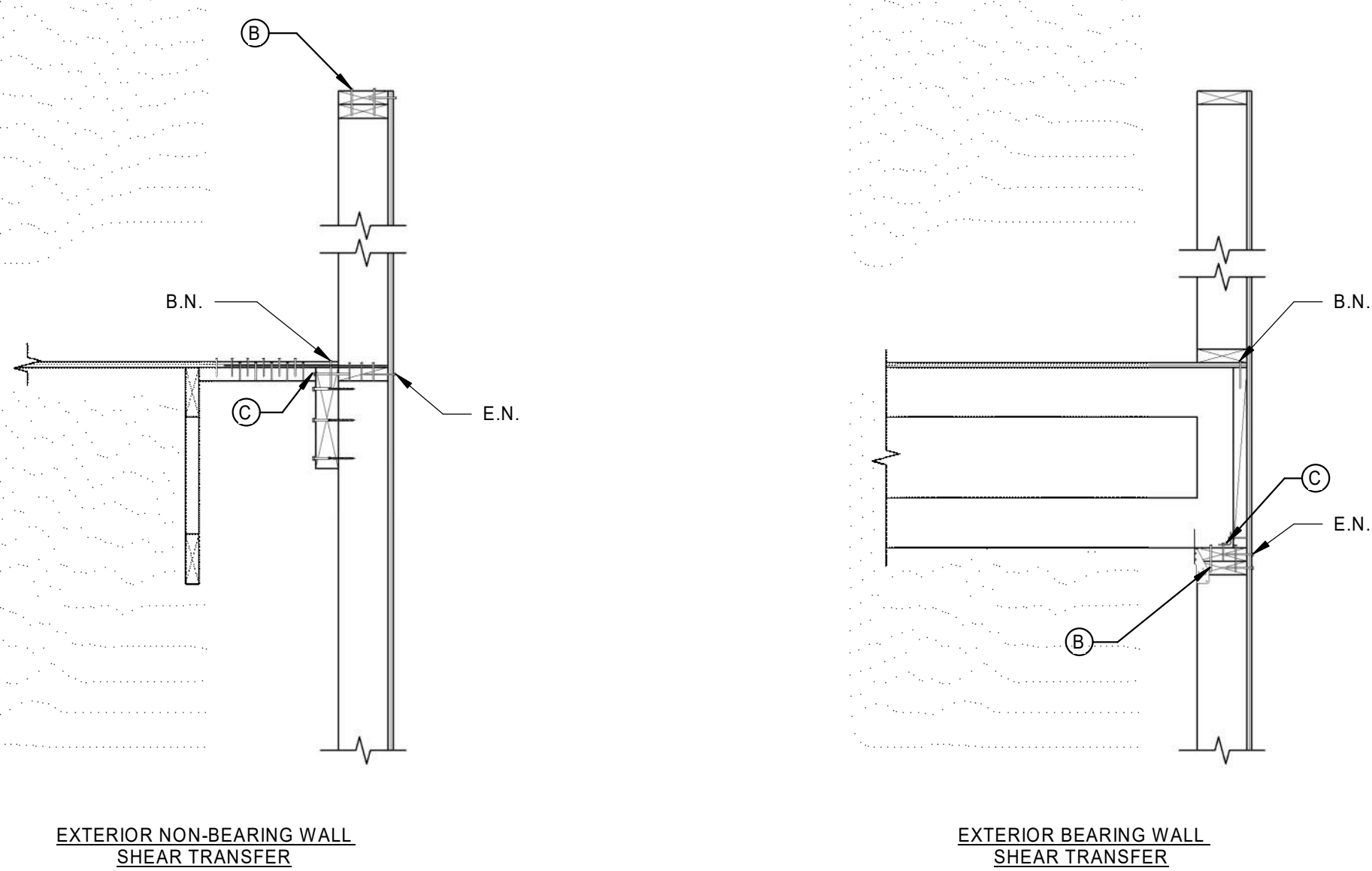
S002

STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE

ESTABLISHED PER 2018 IBC SECTION 1705.2.1

INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)	FABRICATOR QUALITY CONTROL		SPECIAL INSPECTOR QUALITY ASSURANCE		NOTES	INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)				CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	NOTES
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC										
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	●			●	<p>1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.</p> <p>2. CONTINUOUS - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.</p> <p>3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.</p> <p>4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N6.</p> <p>5. QC AND QA INSPECTORS SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-16 CHAPTER N4.</p> <p>6. NONDESTRUCTIVE TESTING PERSONNEL SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-16 CHAPTER N4.3.</p> <p>7. NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL COMPLY WITH AISC 360-16 CHAPTER N5.5a AND b.</p> <p>8. OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1 / D1.1M STRUCTURAL WELDING CODE - STEEL FOR STATICALLY LOADED STRUCTURES SHALL APPLY.</p> <p>9. THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED BY QA USING MT OR PT, WHEN THE FLANGE THICKNESS EXCEEDS 2 IN. (50mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES. ANY CRACK SHALL BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION, WHEN REQUIRED BY APPENDIX 3, TABLE A-3.1, WELDED JOINTS REQUIRING WELD SOUNDNESS TO BE ESTABLISHED BY RADIOGRAPHICS OR ULTRASONIC INSPECTION SHALL BE TESTED BY QA AS PRESCRIBED. REDUCTION IN THE RATE OF REJECTION IS PROHIBITED.</p> <p>11. REDUCTION OF RATE OF ULTRASONIC TESTING - THE RATE OF UT IS ONLY PERMITTED TO BE REDUCED IF APPROVED BY THE EOR AND THE AHJ PER AISC 360-16 CHAPTER N5.5e.</p> <p>12. FOR STRUCTURES IN RISK CATEGORY II, WHERE THE INITIAL RATE FOR UT IS 10%, THE NDT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR SHALL BE INCREASED TO 100% SHOULD THE REJECT RATE, THE NUMBER OF WELDS CONTAINING UNACCEPTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED, EXCEEDS 5% OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 20 COMPLETED WELDS FOR A JOB SHALL BE MADE PRIOR TO IMPLEMENTING SUCH AN INCREASE. WHEN THE REJECT RATE FOR THE WELDER OR WELDING OPERATOR, AFTER A SAMPLING OF AT LEAST 40 COMPLETED WELDS, HAS FALLEN TO 5% OR LESS, THE RATE OF UT SHALL BE RETURNED TO 10%. FOR EVALUATING THE REJECT RATE OF CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS 1 IN. (25mm) OR LESS, EACH 12 IN. (300mm) INCREMENT OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT RATE ON CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS GREATER THAN 1 IN. (25mm), EACH 6 IN. (150mm) OF LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED ONE WELD.</p> <p>13. ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND LOCATION IN THE PIECE. WHEN A WELD IS REJECTED ON THE BASIS OF NDT, THE NDT RECORD SHALL INDICATE THE LOCATION OF THE DEFECT AND THE BASIS OF REJECTION.</p> <p>14. DEMAND CRITICAL WELDS SHALL MEET THE PROVISION FOUND IN AISC 341-16 AND WELDING METHODS, PROCEDURES AND QUALITY CONTROL SHALL COMPLY WITH AWS D1.1 AND THE FOLLOWING:</p> <p>a. ARC STRIKES, GOUGES AND OTHER IMPERFECTIONS WITHIN OR ADJACENT TO THE JOINT, SHALL BE REPAIRED OR REMOVED.</p> <p>b. PREHEAT AND INTER-PASS REQUIREMENTS AS OUTLINED IN SECTION 3.5.</p> <p>c. UNREPAIRED CRACKS, GOUGES, AND NOTCHES WILL NOT BE PERMITTED IN THE JOINT AREA.</p> <p>d. USE ELECTRODES WITH CHARPY V-NOTCH ABSORBED ENERGY EQUAL TO OR GREATER THAN 20 FT-LBS AT 20 DEGREES FAHRENHEIT UNDER AWS AS CLASSIFICATION TEST METHODS, AND 40 FT-LBS AT 70 DEGREES FAHRENHEIT USING TEST PROCEDURES PRESCRIBED IN APPENDIX X OF AISC 358. ACCEPTABLE ELECTRODES INCLUDE E70T-K2, E71 T-1.</p>	●	●	●	1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS					
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	●			●		●			●	2. CONTINUOUS - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION				
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	●			●					●	3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR				
MATERIAL IDENTIFICATION (TYPE / GRADE)	●			●					●	4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7				
WELDER IDENTIFICATION SYSTEM ¹	●			●					●	5. FOR SNUG-TIGHT JOINTS, PRE-INSTALLATION VERIFICATION TESTING AS SPECIFIED IN TABLE N5.6-1 AND MONITORING OF THE INSTALLATION PROCEDURES AS SPECIFIED IN TABLE N5.6-2 ARE NOT APPLICABLE. THE QC AND QA NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS IN SNUG-TIGHT JOINTS				
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	●			●					●	6. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT-TENSION-INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QC AND QA NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS				
* JOINT PREPARATION				●					●	7. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE CALIBRATED WRENCH METHOD OR THE TURN-OF-NUT METHOD WITHOUT MATCHMARKING, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QC AND QA SHALL BE ENGAGED IN THEIR ASSIGNED INSPECTION DUTIES DURING INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER				
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)				●					●	8. OBSERVATION OF BOLTING OPERATIONS SHALL BE THE PRIMARY METHOD USED TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP INCORPORATED IN CONSTRUCTION ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE PROVISIONS OF THE RCSC SPECIFICATION				
* CLEANLINESS (CONDITION OF STEEL SURFACES)				●					●					
* TACKING (TACK WELD QUALITY AND LOCATION)				●					●					
* BACKING TYPE AND FIT (IF APPLICABLE)				●					●					
FIT-UP OF CJP GROOVE WELDS OFHSS T, Y, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)				●					●					
* JOINT PREPARATIONS				●					●					
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)				●					●					
* CLEANLINESS (CONDITION OF STEEL SURFACES)				●					●					
* TACKING (TACK WELD QUALITY AND LOCATION)				●					●					
CONFIGURATION AND FINISH OF ACCESS HOLES				●					●					
FIT-UP OF FILLET WELDS				●					●					
* DIMENSIONS (ALIGNMENT, GAPS AT ROOT)				●					●					
* CLEANLINESS (CONDITION OF STEEL SURFACES)				●					●					
* TACKING (TACK WELD QUALITY AND LOCATION)				●					●					
CHECK WELDING EQUIPMENT				●					●					
¹ THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.														
INSPECTION TASKS DURING WELDING (TABLE N5.4-2)	CONTINUOUS		PERIODIC		CONTINUOUS		PERIODIC							
CONTROL AND HANDLING OF WELDING CONSUMABLES														
* PACKAGING				●				●						
* EXPOSURE CONTROL				●				●						
NO WELDING OVER CRACKED TACK WELDS				●				●						
ENVIRONMENTAL CONDITIONS														
* WIND SPEED WITHIN LIMITS				●				●						
* PRECIPITATION AND TEMPERATURE				●				●						
WPS FOLLOWED														
* SETTINGS ON WELDING EQUIPMENT														
* TRAVEL SPEED														
* SELECTED WELDING MATERIALS				●				●						
* SHIELDING GAS TYPE / FLOW RATE				●				●						
* PREHEAT APPLIED														
* INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX)														
* PROPER POSITION (F, V, H, OH)														
WELDING TECHNIQUES														
* INTERPASS AND FINAL CLEANING														
* EACH PASS WITHIN PROFILE LIMITATIONS														
* EACH PASS MEETS QUALITY REQUIREMENTS														
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS				●				●						
INSPECTION TASKS AFTER WELDING (TABLE N5.4-3)	CONTINUOUS		PERIODIC		CONTINUOUS		PERIODIC							
WELDS CLEANED				●				●						
SIZE, LENGTH AND LOCATION OF WELDS				●				●						
WELDS MEET VISUAL ACCEPTANCE CRITERIA														
* CRACK PROHIBITION														
* WELD / BASE-METAL FUSION														
* CRATER CROSS SECTION														
* WELD PROFILES				●				●						
* WELD SIZE														
* UNDERCUT														
* POROSITY														
ARC STRIKES				●				●						
K-AREA ¹				●				●						
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES ²				●				●						
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)				●				●						
REPAIR ACTIVITIES				●				●						
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER				●				●						
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR				●				●						
¹ WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD.														
² AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1a) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.														

WOOD SHEAR WALL SCHEDULE

[illegible]

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SEQUENCE

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DATE:	06/23/2020
ARW PROJECT NO:	2020
DESIGN SEQUENCE PROJECT NO:	1904.0
CAD DWG FILE NO:	

DRAWN BY: Z: Thorne
DESIGNED BY: A: Higg
DWG TYPE:
PROJECT PHASE: FOR CONSTRUCTION

SHEET TITLE

SCHEDULES

S003

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FOOTING & FOUNDATION NOTES:

- SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
- ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED FOR THE BEARING PRESSURE SHOWN IN THE STRUCTURAL NOTES.
- VERIFY ALL DIMENSIONS WITH H DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
- SEE SHEET S002 FOR FOOTING SCHEDULE.
- PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O.
- SEE SHEET S201 FOR TYPICAL FOOTING AND FOUNDATION DETAILS.
- ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTED IN GENERAL STRUCTURAL NOTES.
- FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE FINISHED WALLS.
- ALL ANCHORS, HOLD-DOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND/OR GROUT PLACEMENT.
- COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT MAY INTERFERE WITH FOOTINGS.
- FOUNDATION WALLS SHALL BE 10" THICK U.N.O.
- INDICATES HOLD-DOWN WITH (2) 2x STUDS. SEE DETAIL 4 AND 5/S202 FOR MORE INFORMATION.

CONCRETE SLAB NOTES:

- SLAB ON GRADE SHALL BE 4" THICK CONCRETE U.N.O. SLAB SHALL BE UNDERLAIN BY FREE DRAINING MATERIAL.
- SEE DETAIL 1/S201 FOR CONTROL AND CONSTRUCTION JOINT INFORMATION.

WOOD ROOF FRAMING NOTES:

- FOR ROOF SHEATHING AND NAILING REQUIREMENTS, SEE STRUCTURAL NOTES SHEET S001.
- SHEAR WALLS ARE INDICATED ON A/S101. SEE THE SHEAR WALL SCHEDULE ON SHEET S003.
- SEE WOOD FRAMING NOTES ON SHEET S001 FOR WALL TOP PLATE CONFIGURATION AND SPLICE REQUIREMENTS.
- SEE PREMANUFACTURED TRUSS NOTES FOR ADDITIONAL INFORMATION.
- INDICATES BOUNDARY AND EDGE NAILING OF 6"x.c. WITH BLOCKING AT PANEL EDGES. SEE DETAIL 7/S203.
- INDICATES BOUNDARY AND EDGE NAILING OF 6"x.c. WITH BLOCKING AT PANEL EDGES. SEE DETAIL 7/S203.
- WHERE STRAPS ARE SHOWN ON ROOF AND REQUIRE A SPLICE, FOLLOW SCHEDULE ON SHEET S002.
- SEE DETAIL 2/S202 FOR TYPICAL WALL OPENING FRAMING.

PRE-MANUFACTURED TRUSS NOTES:

- PRE-MANUFACTURED TRUSSES SHALL BE DESIGNED PER ALL APPLICABLE LOAD COMBINATIONS AND LOAD CONFIGURATIONS AS REQUIRED BY THE GOVERNING CODE AND THE GENERAL STRUCTURAL NOTES:

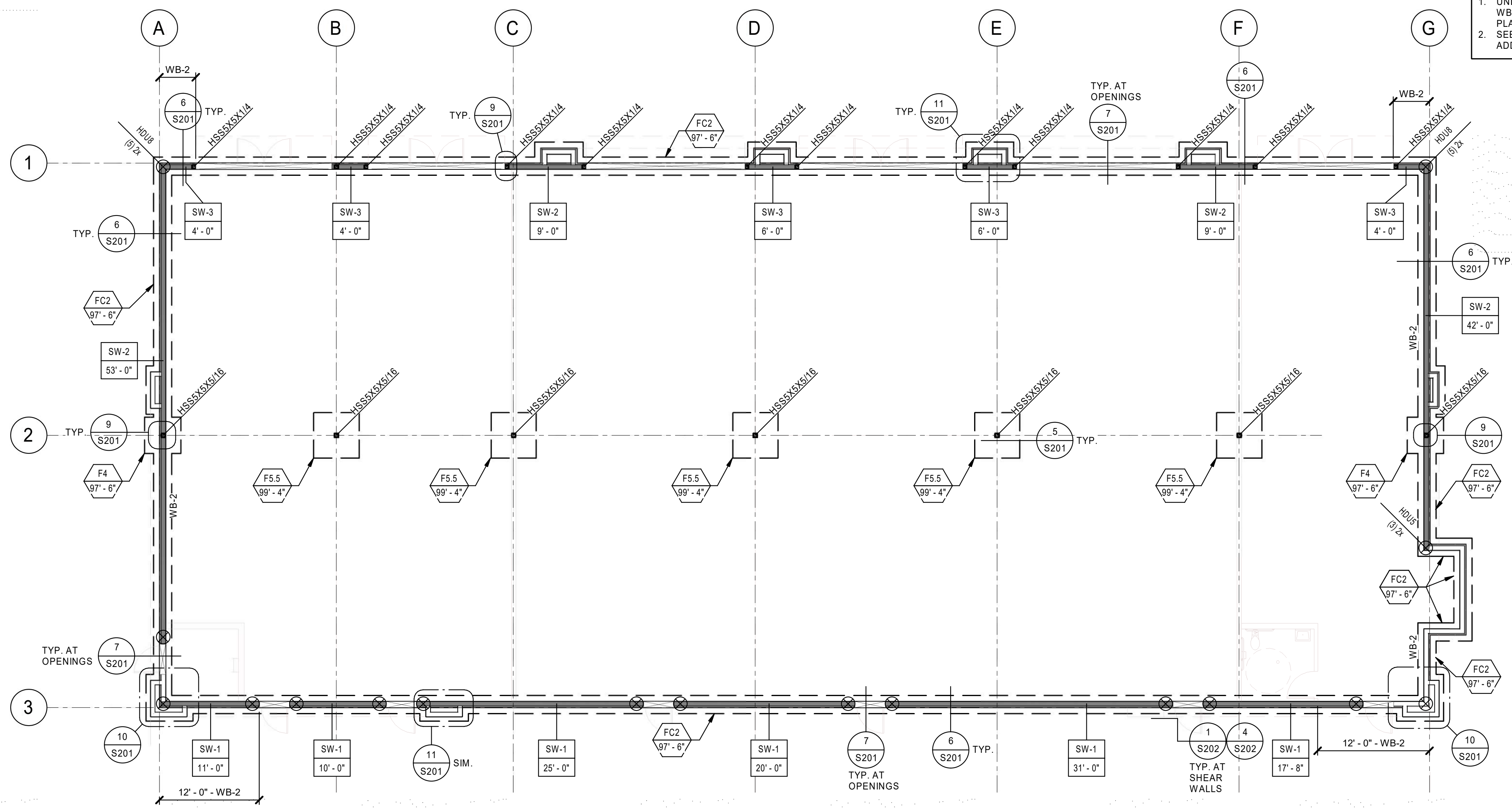
THE FOLLOWING CRITERIA SHALL BE USED IN DESIGN.

- | | | |
|------------|---|--|
| SNOW LOAD | = | PER GENERAL STRUCTURAL NOTES |
| LIVE LOAD | = | PER GENERAL STRUCTURAL NOTES |
| DEAD LOAD | = | 15 PSF TOP CHORD |
| | = | 5 PSF BOTTOM CHORD |
| WIND LOAD | = | PER GENERAL STRUCTURAL NOTES |
| SNOW DRIFT | = | AS DETERMINED BY THE TRUSS MANUFACTURER OR SHOWN ON PLANS. |
- CONSIDER BALANCED, UNBALANCED AND DRIFT LOCATIONS
- ALL TRUSSES SHALL BE DESIGNED FOR A 150 POUND POINT LOAD APPLIED AT ANY LOCATION ALONG THE BOTTOM CHORD. DESIGN ALL TRUSSES FOR WIND UPLIFT PER THE GOVERNING CODE WITH A 15 PSF DEAD LOAD.
 - ALL TRUSS TO TRUSS CONNECTIONS PROVIDED BY TRUSS MANUFACTURER.
 - TRUSS MANUFACTURER SHALL COORDINATE AND INCLUDE ALL ADD LOADS AS INDICATED ON THE FRAMING PLAN.
 - COORDINATE DUCT RUNS AND TRUSS WEB CONFIGURATIONS WITH MECHANICAL & ARCH. DRAWINGS. DO NOT FIELD MODIFY TRUSSES TO ACCOMMODATE DUCTING AND OTHER MISCELLANEOUS EQUIPMENT WITHOUT WRITTEN DIRECTION FROM THE TRUSS MANUFACTURER OR STRUCTURAL ENGINEER.
 - COORDINATE ALLOWABLE TRUSS DEFLECTIONS WITH ARCHITECT FOR DETAILING OF NON-BEARING STUD WALLS BELOW.
 - DESIGN DRAG TRUSSES FOR ASD LEVEL DRAG LOADS SHOWN ON THE PLANS.
 - CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR REVIEW AS REQUIRED BY THE DEFERRED SUBMITTAL SECTION OF THE GENERAL STRUCTURAL NOTES.
 - <<###> INDICATES ASD TOP CHORD AXIAL LOAD AS WORST CASE OF WIND OR SEISMIC LOADS.
 - RTU LOADS ARE IN ADDITION TO TYPICAL LOADS AND SNOW DRIFT SHOWN.
 - SEE DETAILS 10 AND 12/S202 AND 6/S203 FOR ASD WIND PARAPET LOADS ON TRUSSES.
 - TRUSSES SHALL ALIGN ON GRIDS AND EQUALLY SPACED BETWEEN.

WOOD BEARING WALL SCHEDULE

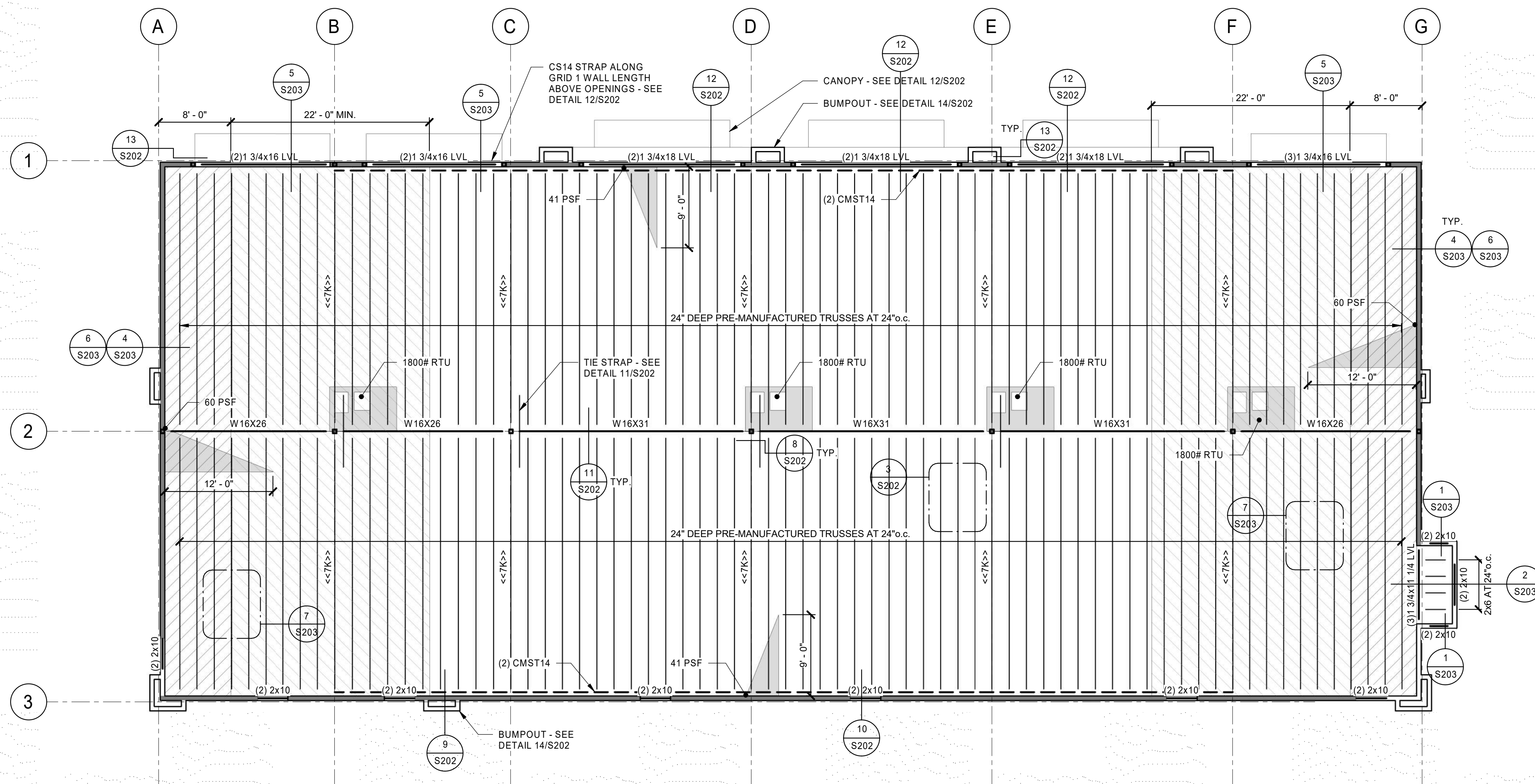
CALLOUT	STUD SIZE	SPACING
WB-1	2x6 DF-#2	16"
WB-2	1 3/4" x 5 1/2" LSL	16"

NOTES:
1. UNLESS NOTED OTHERWISE, USE WB-1 WHERE NOT CALLED OUT ON PLAN.
2. SEE STRUCTURAL NOTES L 1.c FOR ADDITIONAL MATERIAL PROPERTIES.



FOOTING AND FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

A
S101

ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

B
S101

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MARK	DATE	DESCRIPTION

DATE: 06/23/20
ARW PROJECT NO: 20207
DESIGN SEQUENCE PROJECT NO: 1904.01
CAD DWG FILE NO:

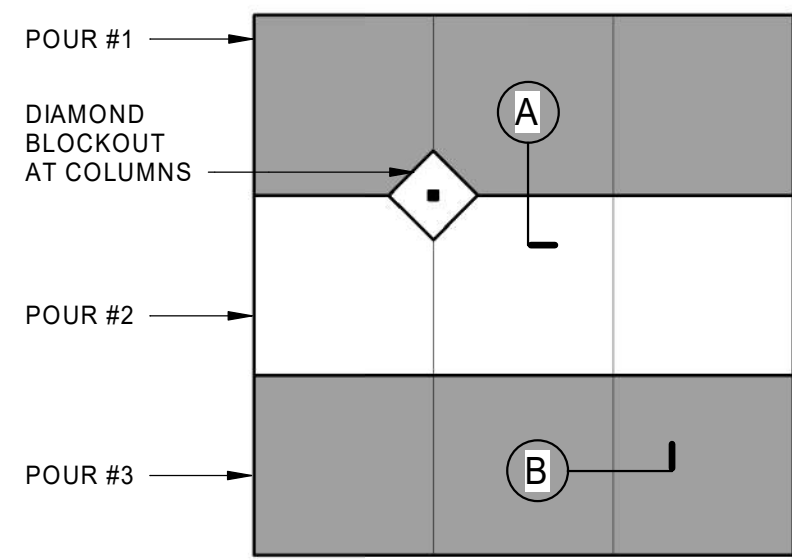
DRAWN BY: Z. Thorner
DESIGNED BY: A. Higgs
DWG TYPE:
PROJECT PHASE:

NOT FOR CONSTRUCTION

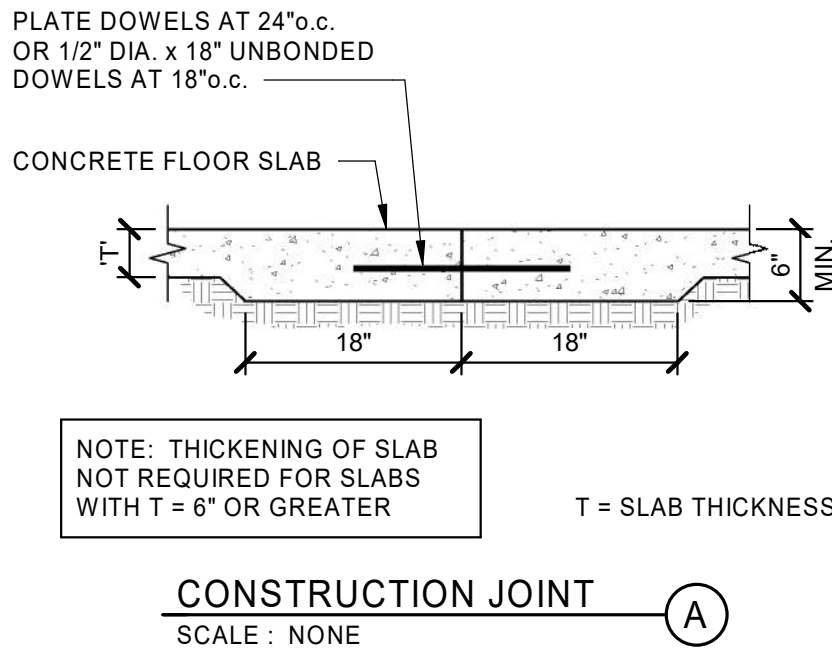
SHEET TITLE

STRUCTURAL
PLANS

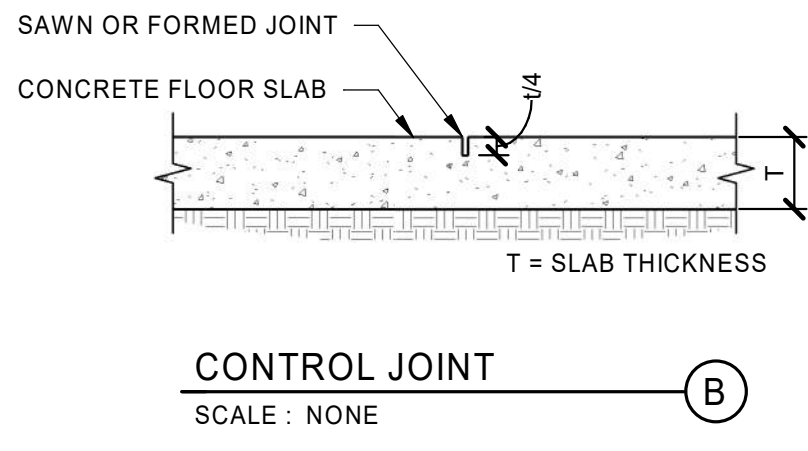
S101



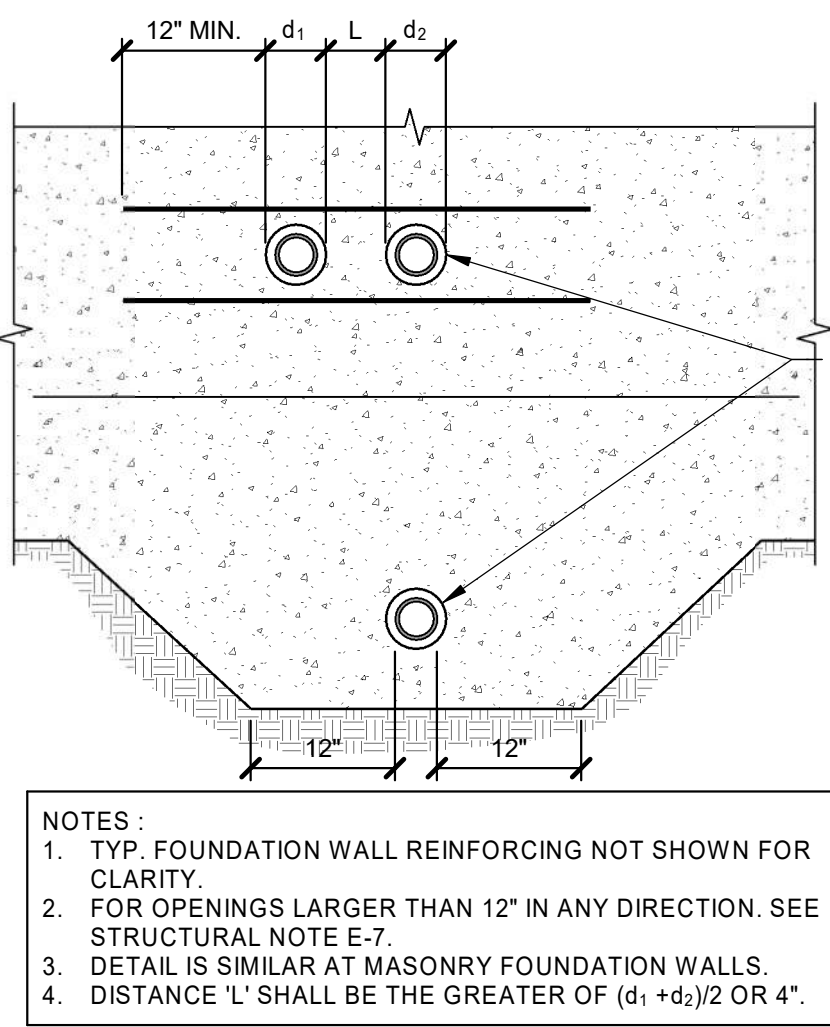
NOTES:
1. JOINTS SHALL OCCUR AT MAIN COLUMN / GRID LINES W/ 10'-0" MAX. SPACING BETWEEN JOINTS AT 4" SLABS; 12'-0" MAX. AT 5" SLABS, AND 15'-0" MAX. AT 6" SLABS.
2. SEE PLAN FOR SLAB THICKNESS 'T' AND REINFORCING SIZE AND SPACING.



CONSTRUCTION JOINT
SCALE: NONE

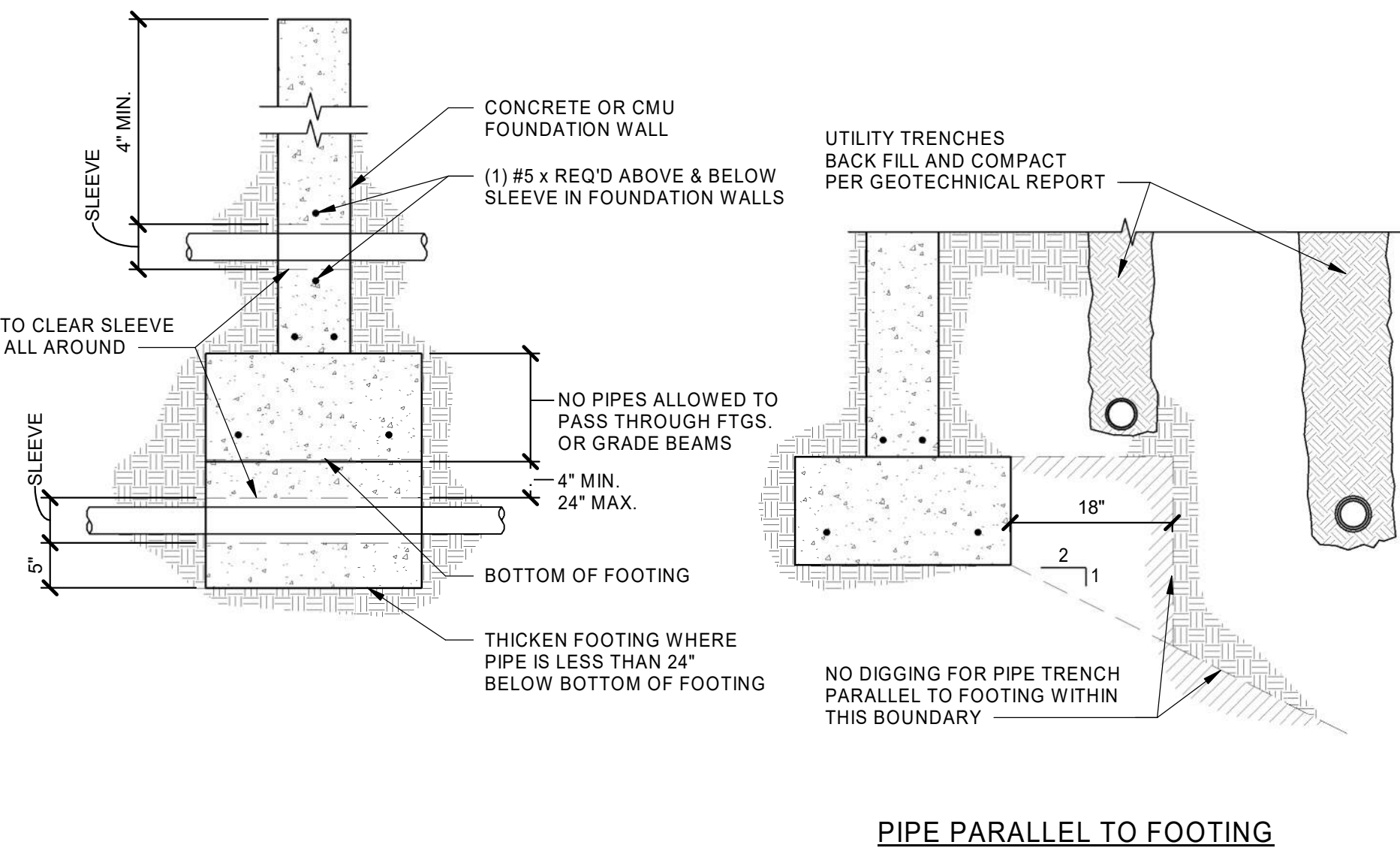


CONTROL JOINT
SCALE: NONE

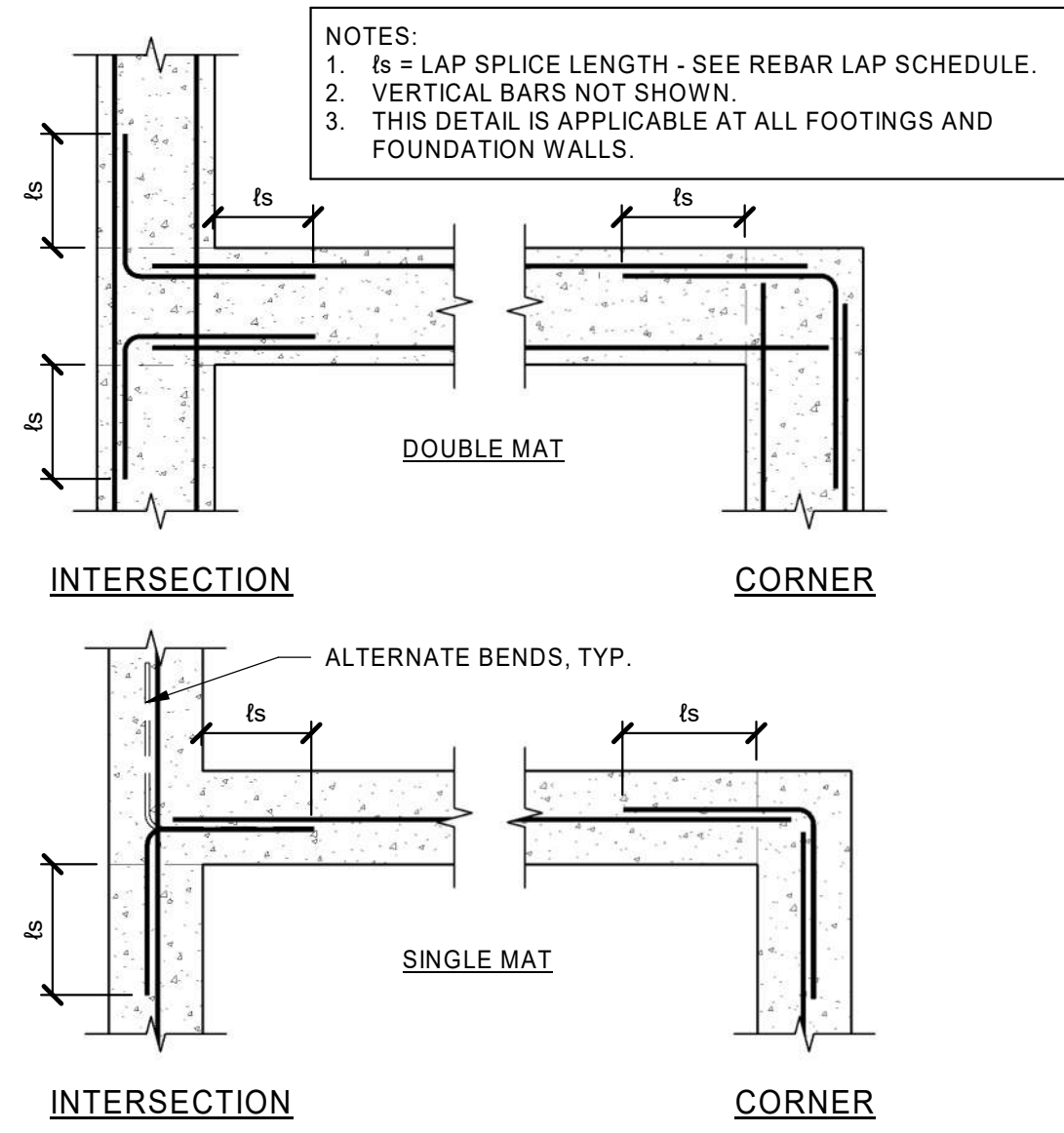


NOTES:
1. TYP. FOUNDATION WALL REINFORCING NOT SHOWN FOR CLARITY.
2. FOR OPENINGS LARGER THAN 12" IN ANY DIRECTION. SEE STRUCTURAL NOTE E-7.
3. DETAIL IS SIMILAR AT MASONRY FOUNDATION WALLS.
4. DISTANCE 'L' SHALL BE THE GREATER OF (d₁ + d₂)/2 OR 4'.

PIPE CROSSING FOOTING / FOUNDATION WALL
ALLOWABLE PIPING LOCATIONS @ FOOTING DETAIL
SCALE: NONE

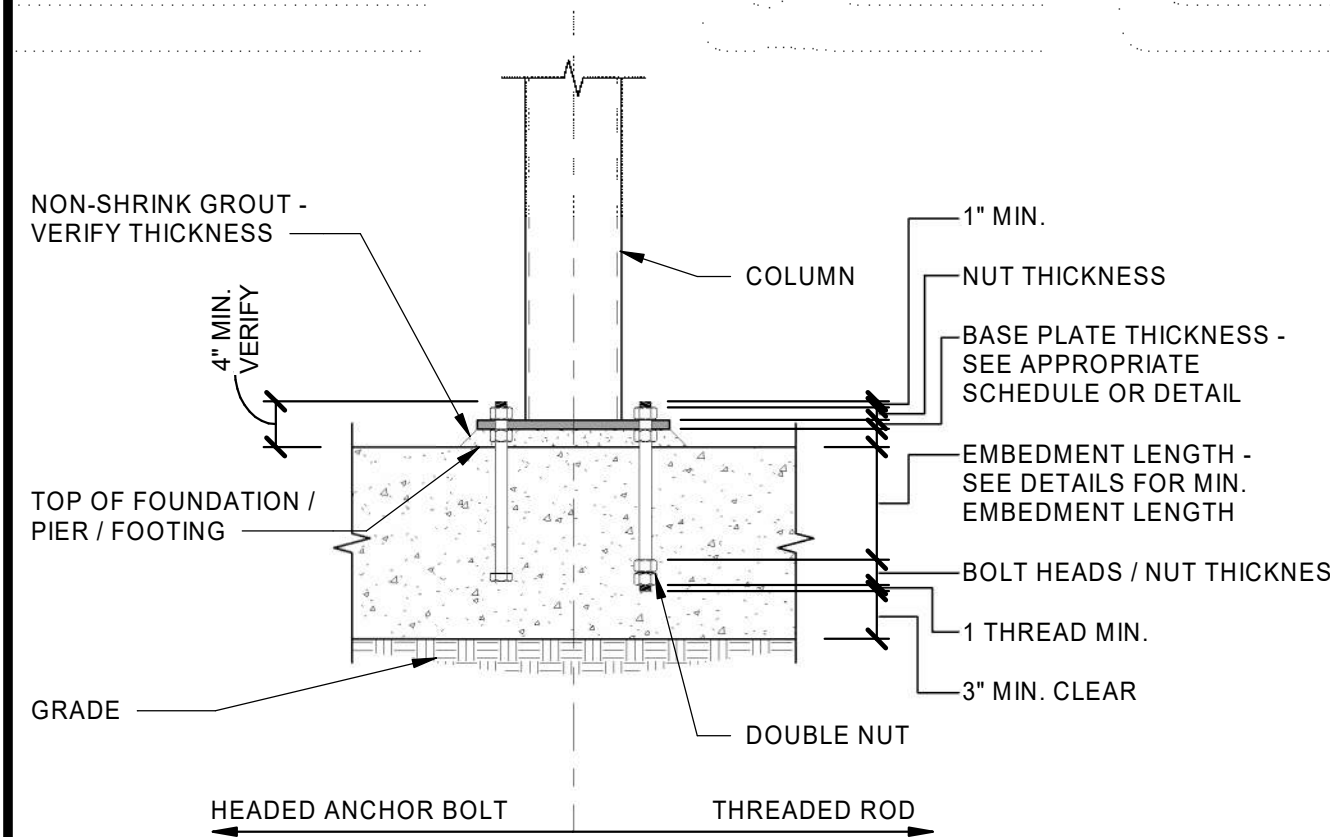


PIPE PARALLEL TO FOOTING

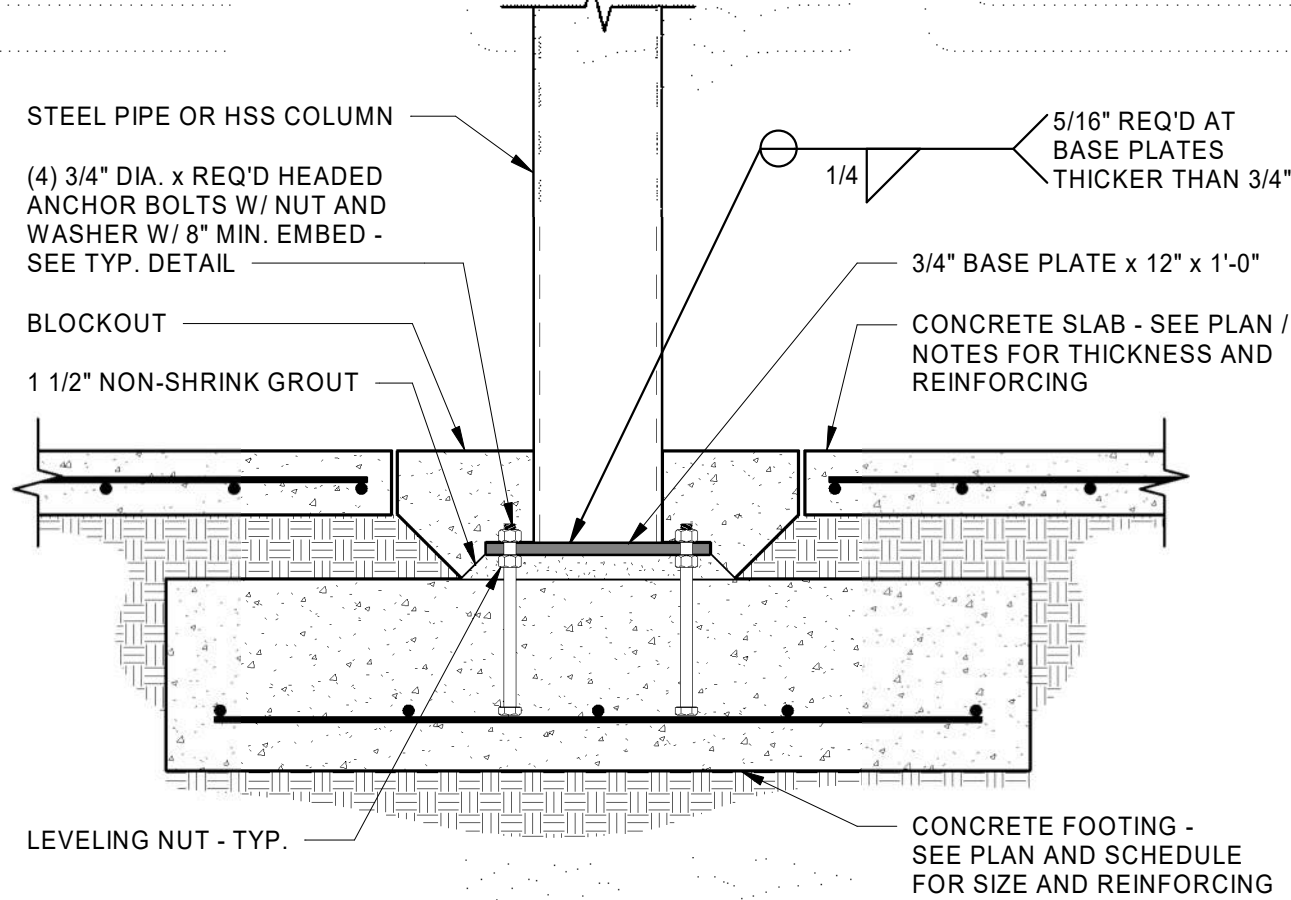


TYP. REINF. @ INTERSECTIONS IN CONC.
DETAIL
SCALE: NONE

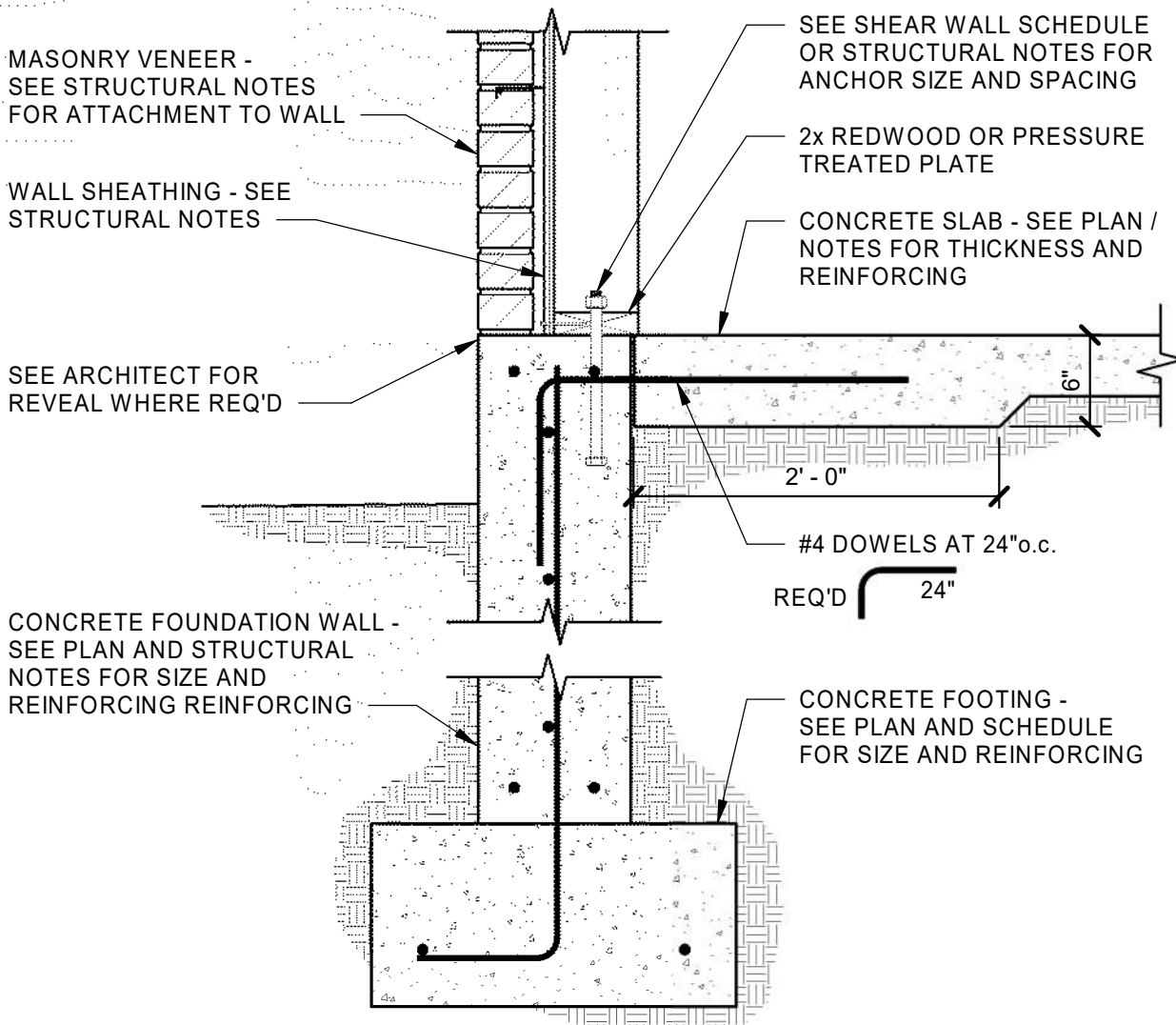
TYPICAL CONCRETE SLAB JOINTS
SCALE: NONE



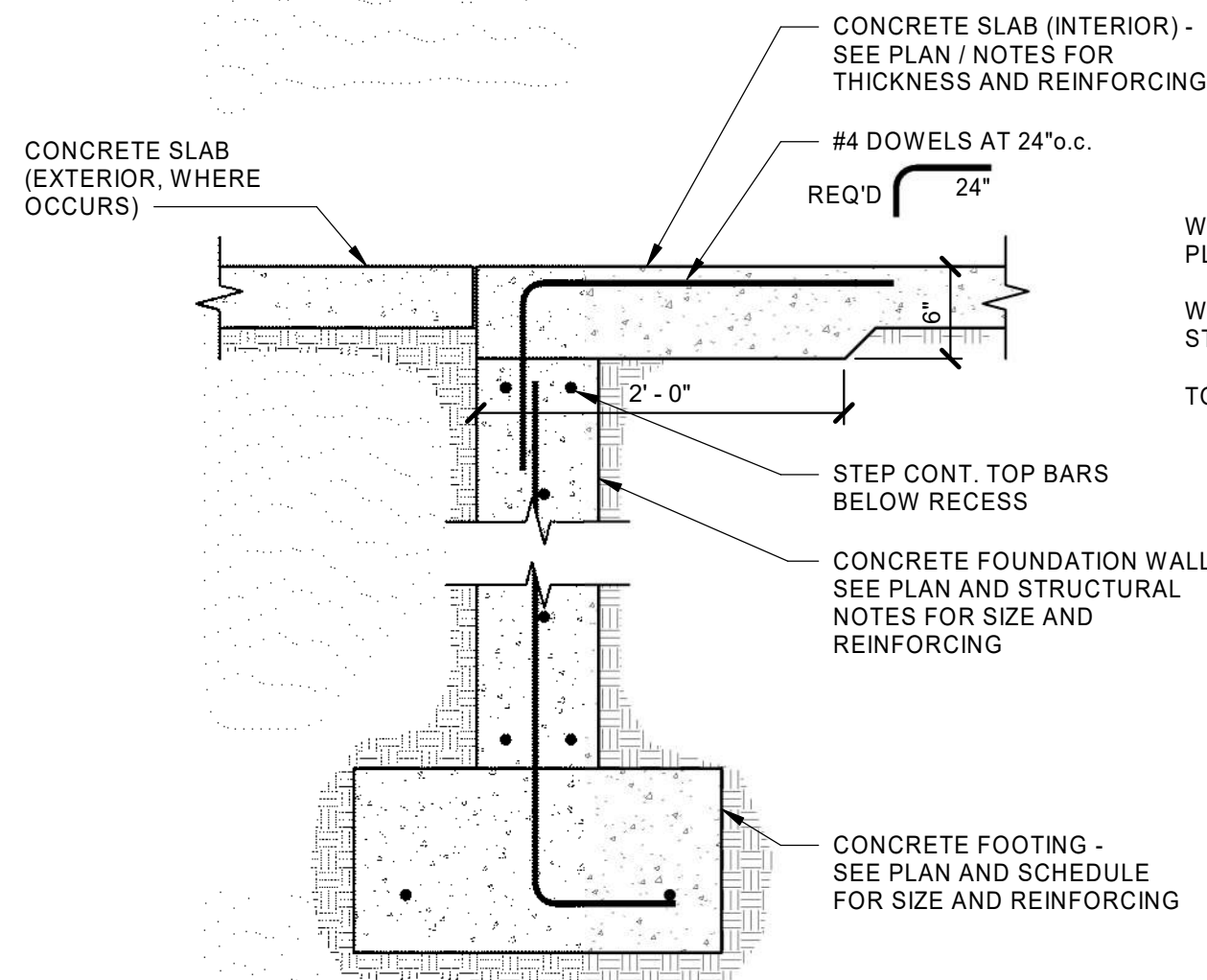
TYPICAL ANCHOR BOLT EMBEDMENT
DETAIL
SCALE: NONE



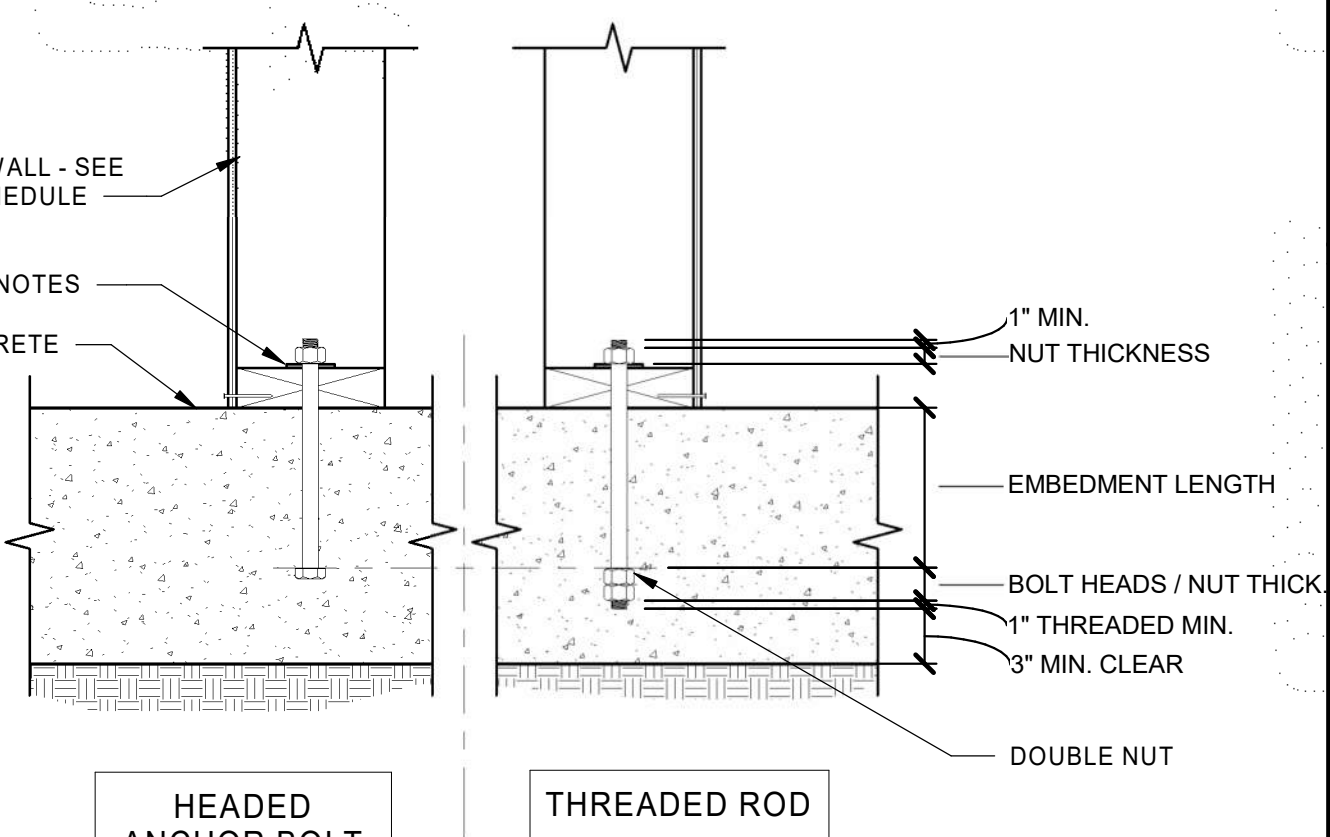
COLUMN TO SPOT FOOTING
SCALE: NONE



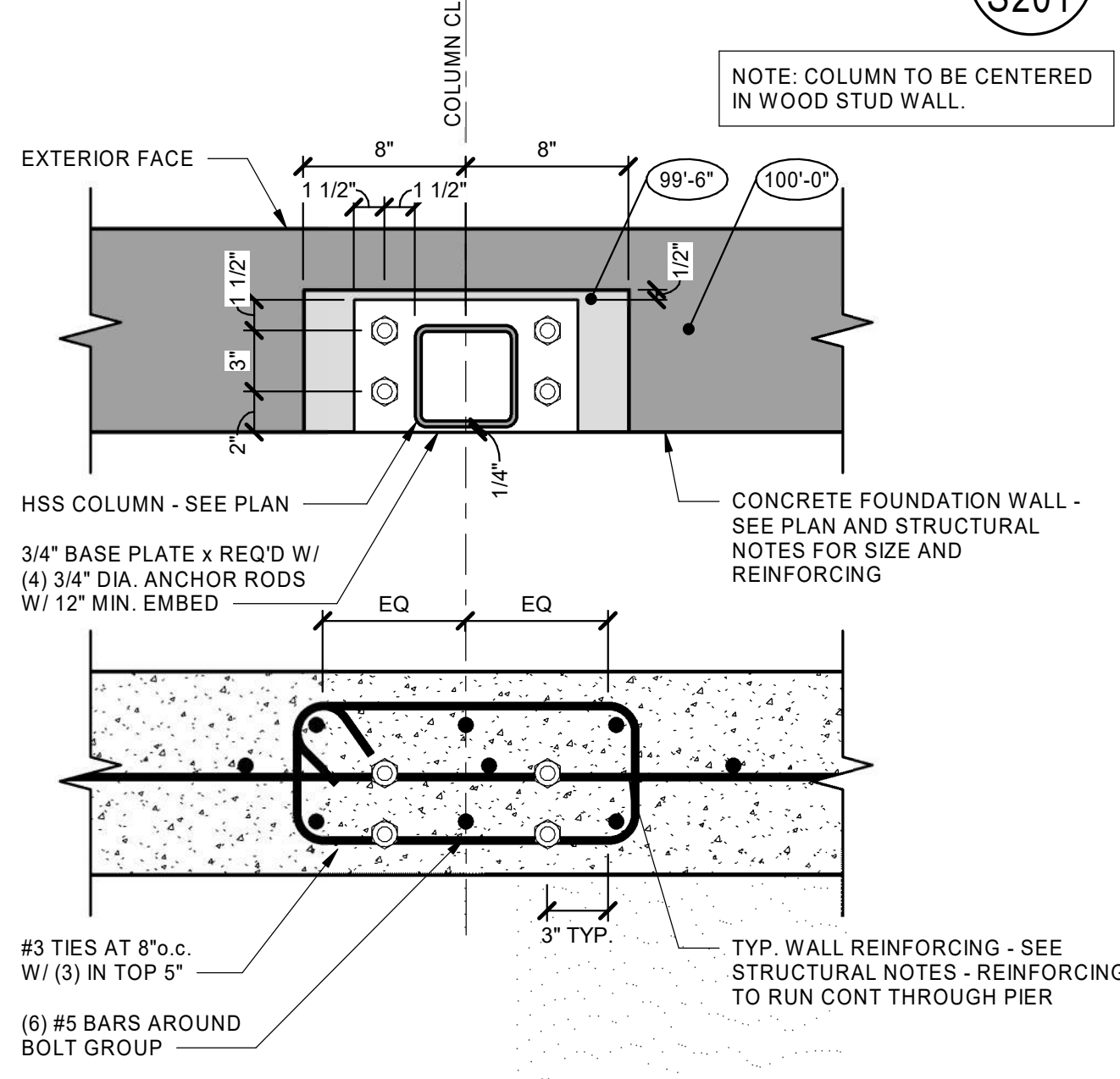
SECTION @ EXTERIOR TIMBER WALL
SCALE: NONE



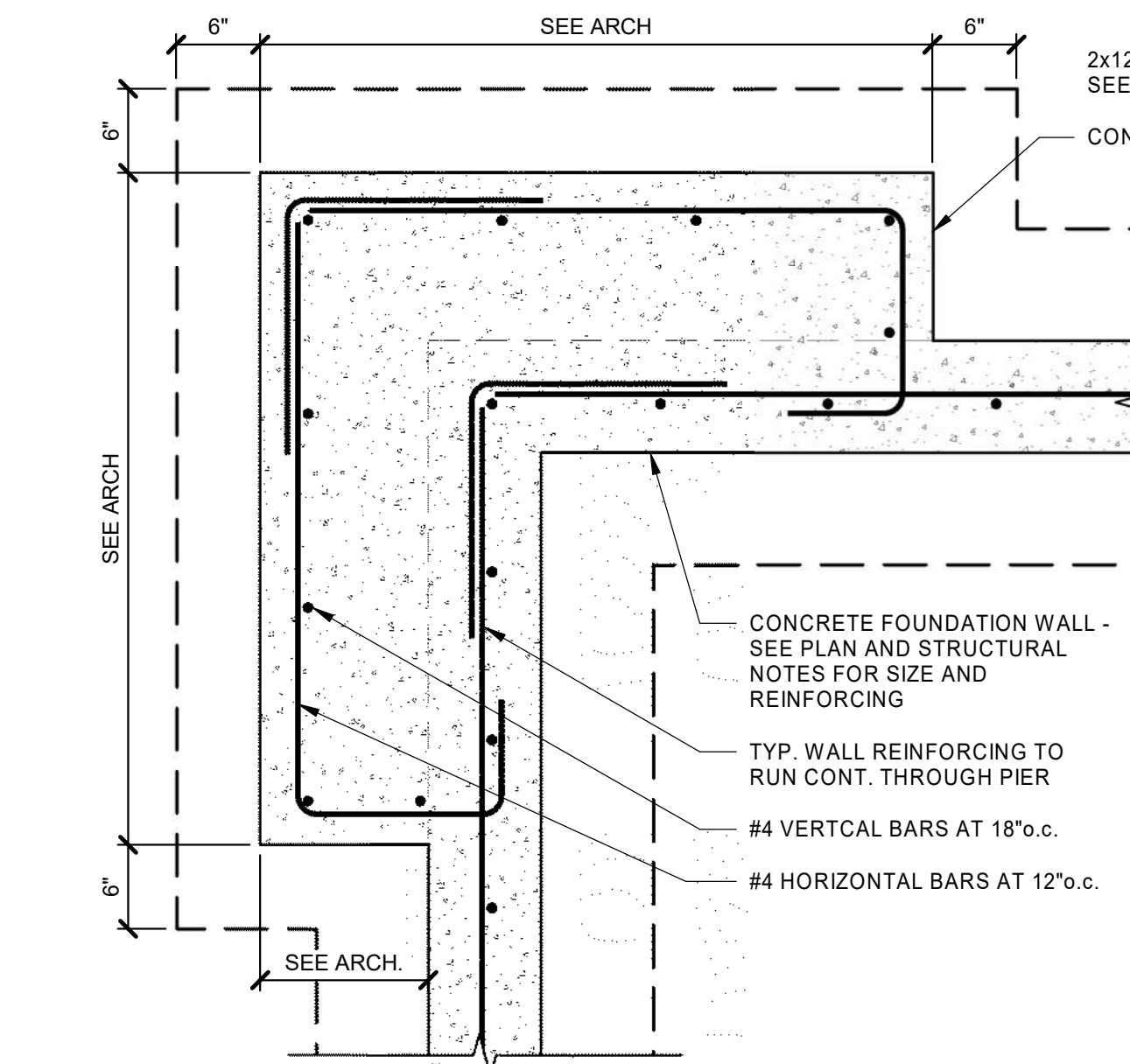
CONCRETE FOUNDATION @ OPENING
SCALE: NONE



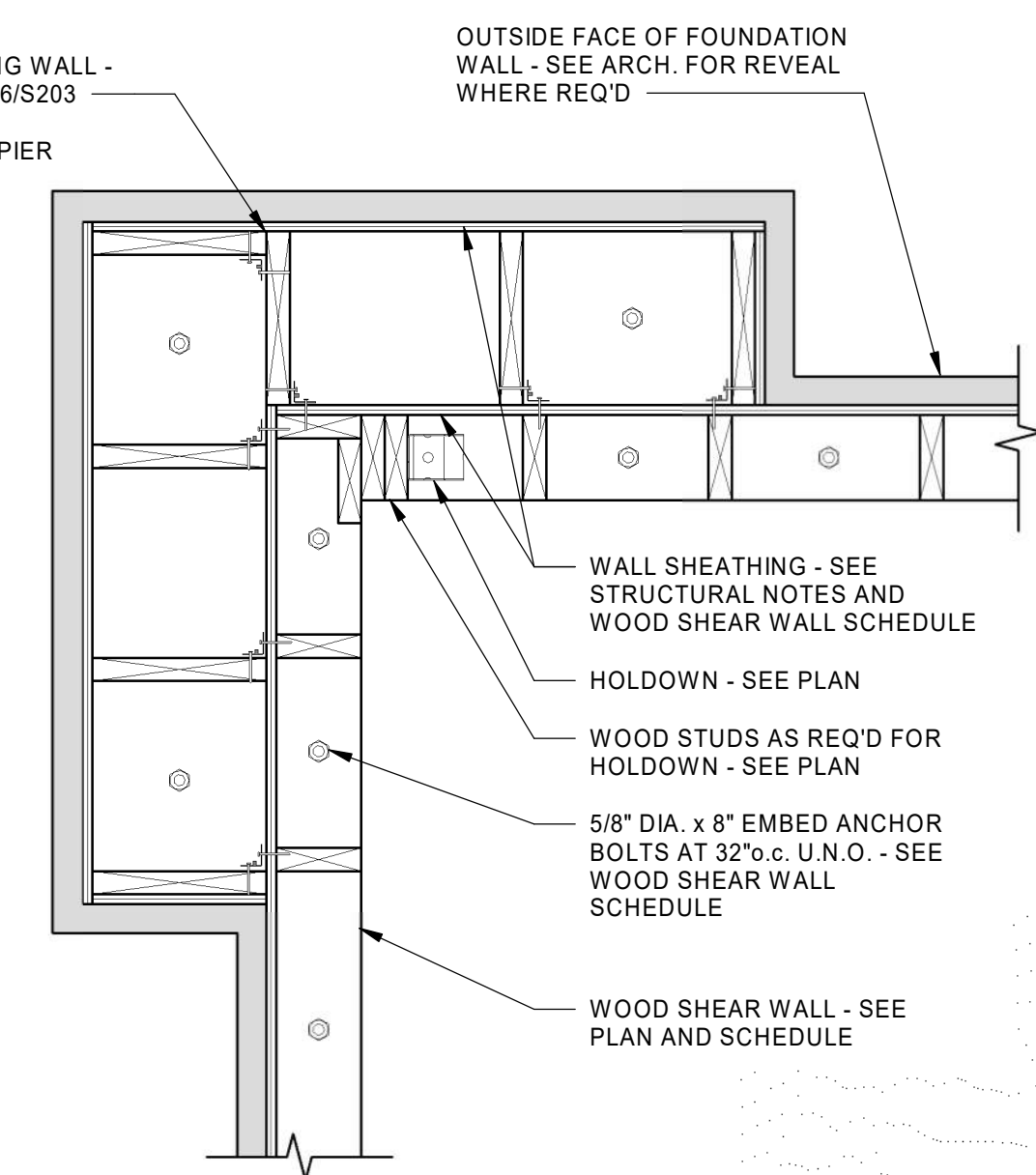
DETAIL
SCALE: NONE



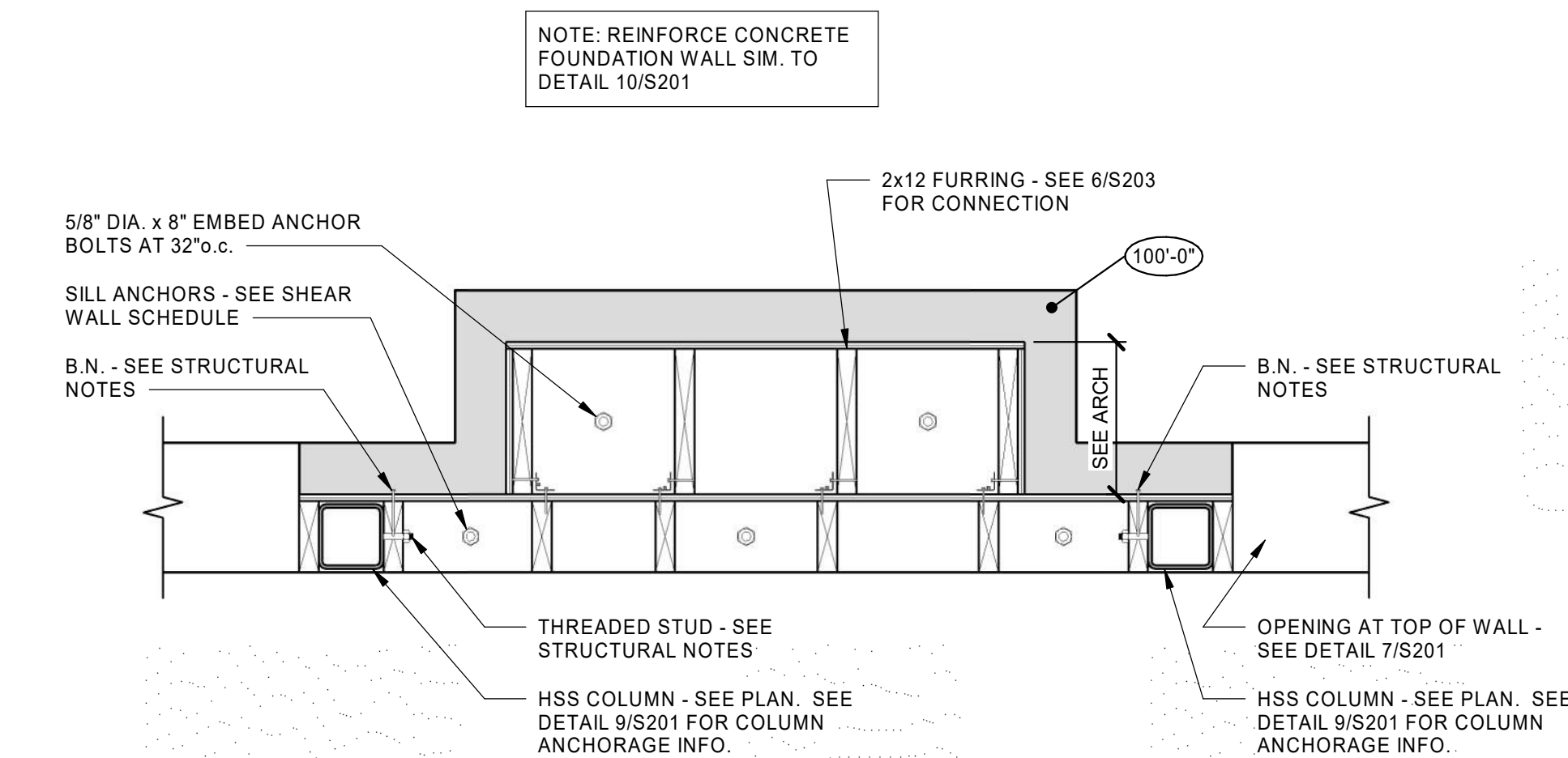
DETAIL
SCALE: NONE



DETAIL
SCALE: NONE



10
S201



DETAIL
SCALE: NONE

11
S201

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MARK	DATE	DESCRIPTION

DATE: 06/23/20
ARW PROJECT NO: 20207
DESIGN SEQUENCE PROJECT NO: 1904.01
CAD DWG FILE NO:

DRAWN BY: Z. Thorner
DESIGNED BY: A. Higgs
DWG TYPE:
PROJECT PHASE:

NOT FOR CONSTRUCTION

SHEET TITLE

DETAILS

S201



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MARK	DATE	DESCRIPTION

DATE: 06/23/20
ARW PROJECT NO: 20207
DESIGN SEQUENCE PROJECT NO: 1904.01
CAD DWG FILE NO:

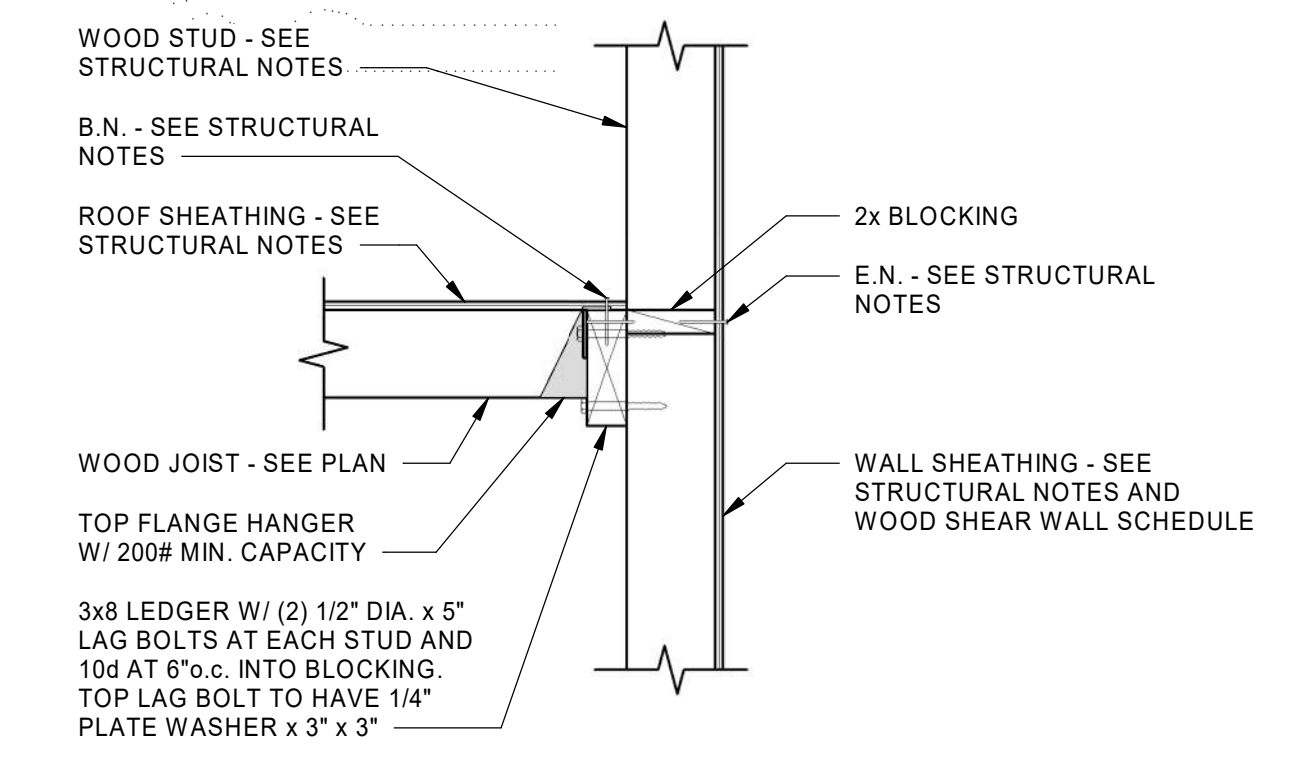
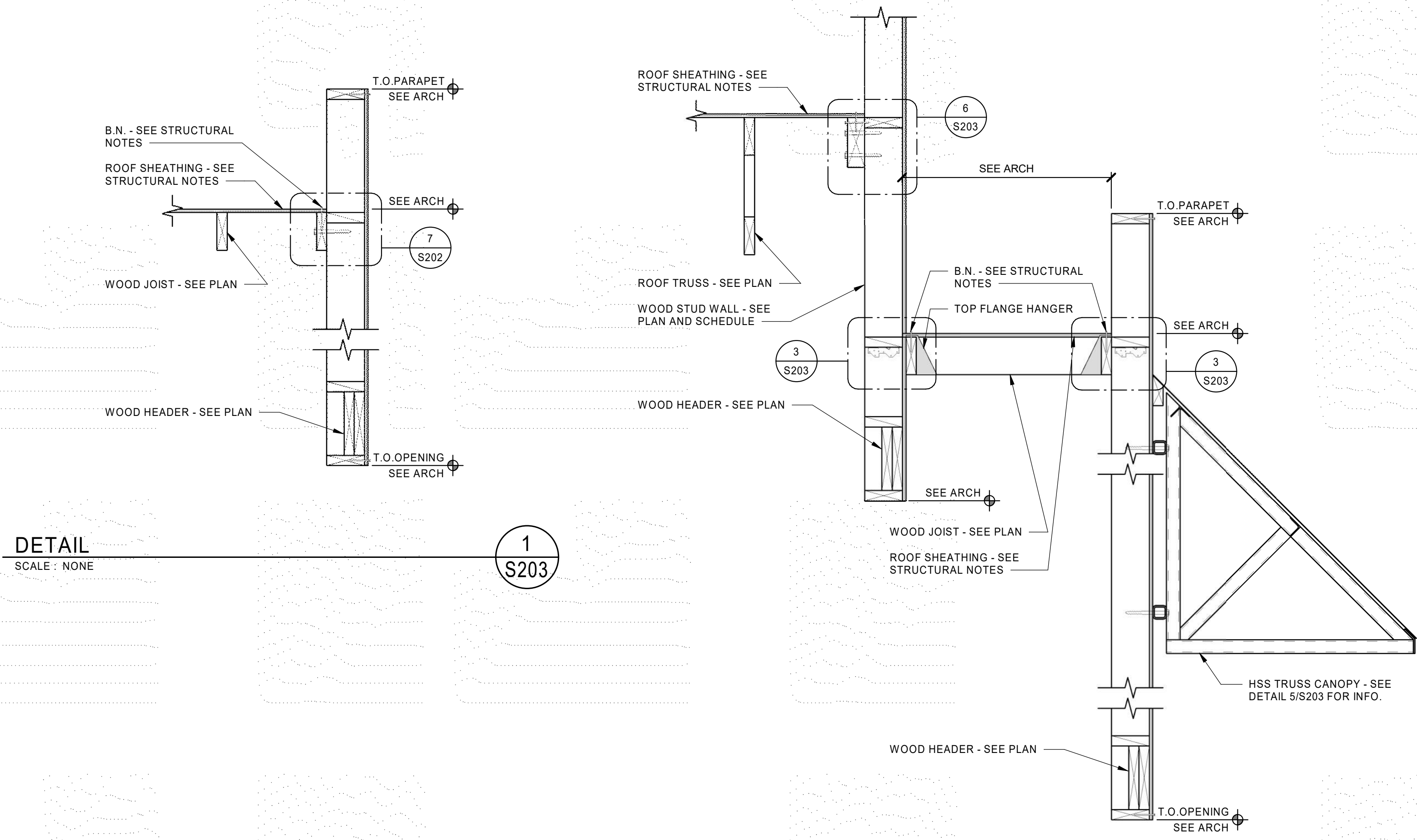
DRAWN BY: Z. Thorner
DESIGNED BY: A. Higgs

DWG TYPE:
PROJECT PHASE: NOT FOR CONSTRUCTION

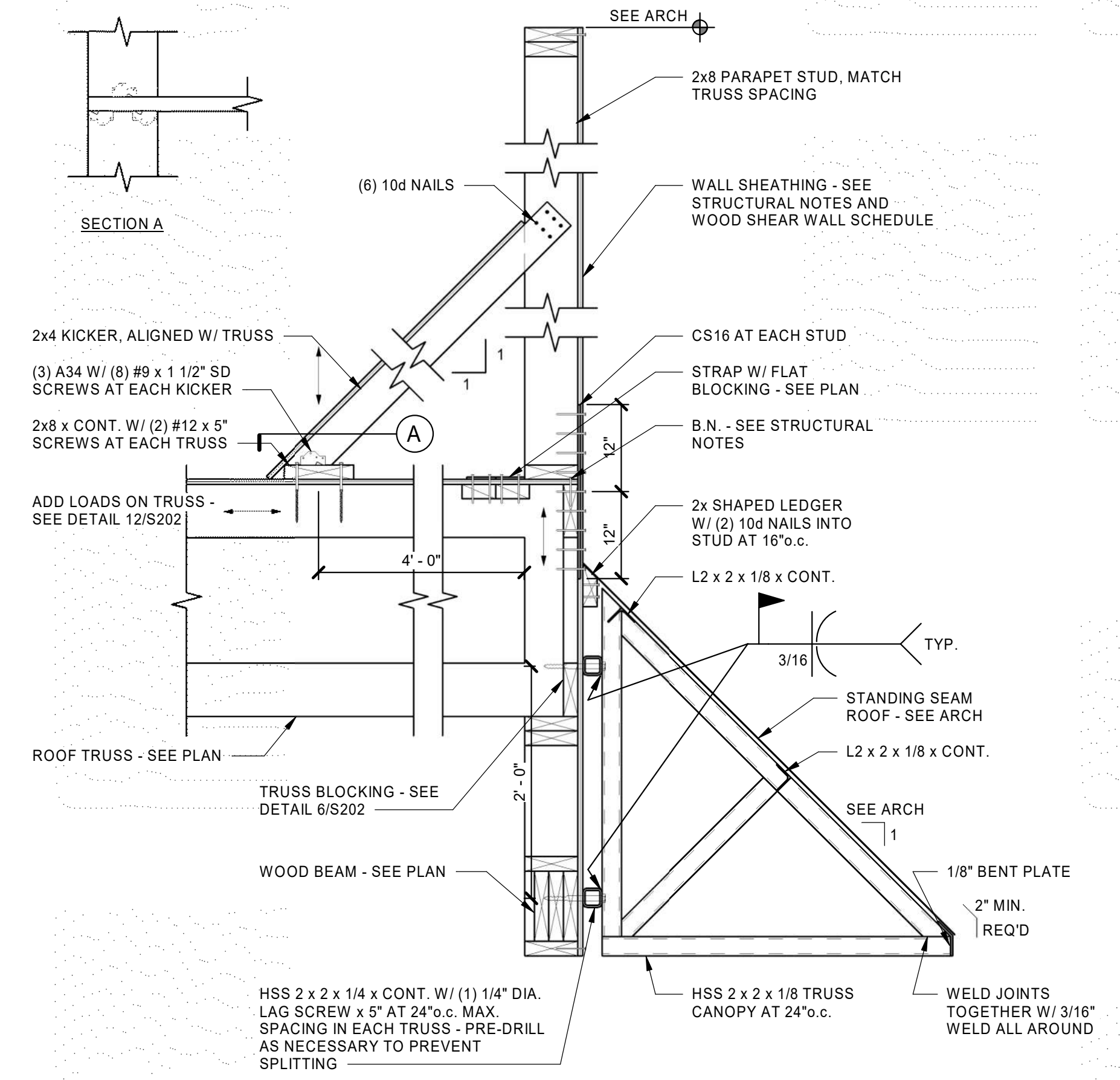
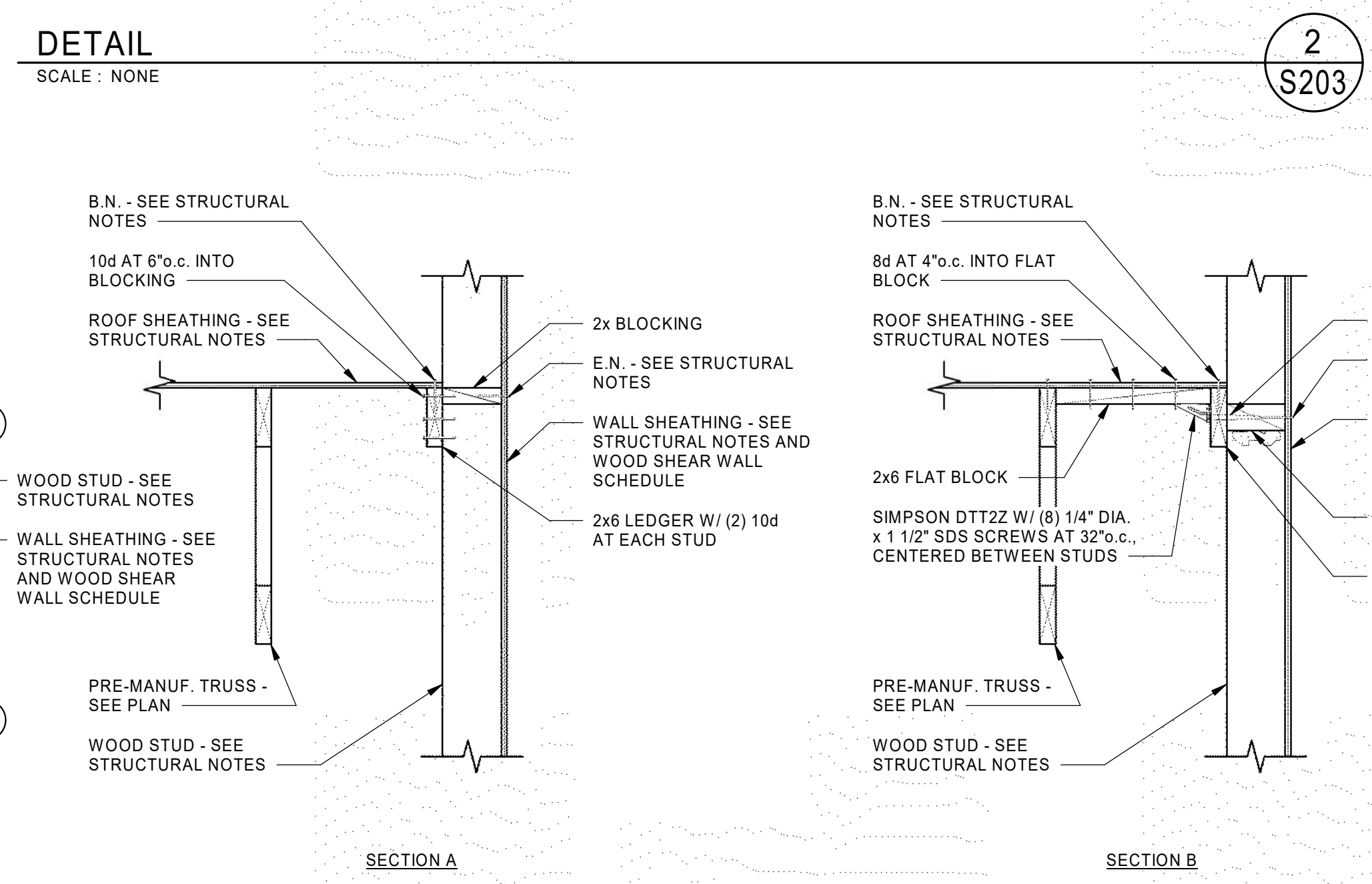
SHEET TITLE

DETAILS

S203

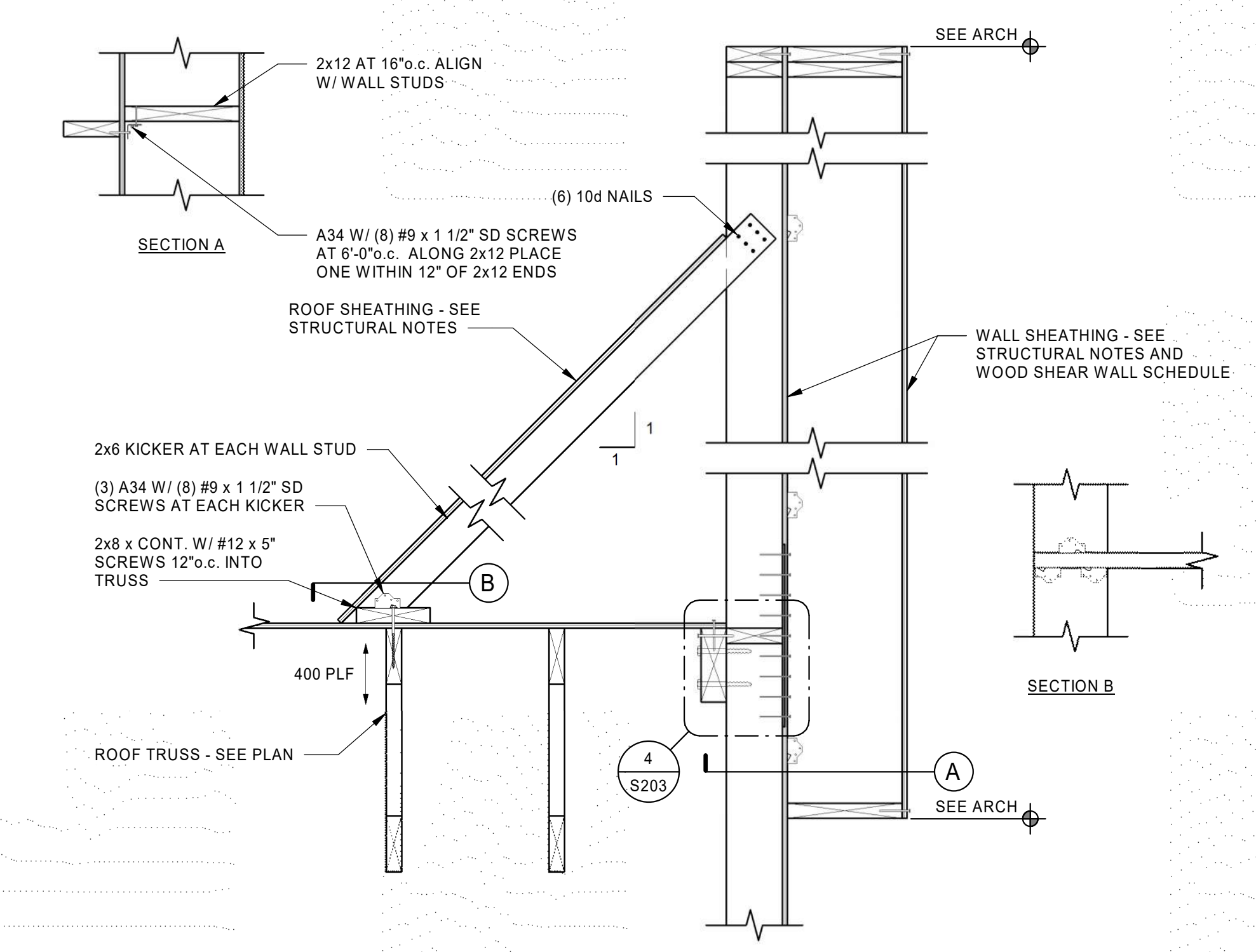


DETAIL
SCALE: NONE
3
S203

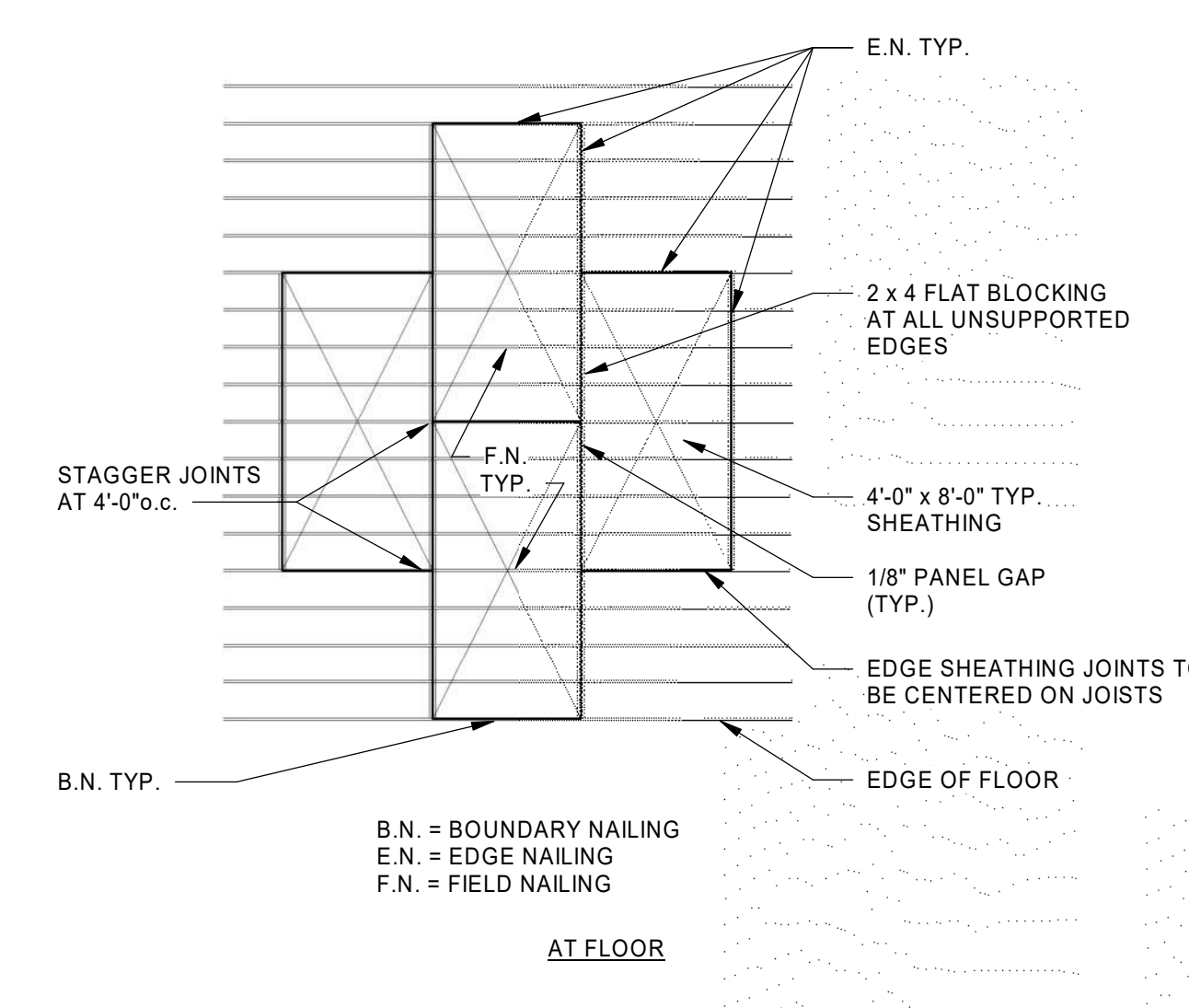


DETAIL
SCALE: NONE
5
S203

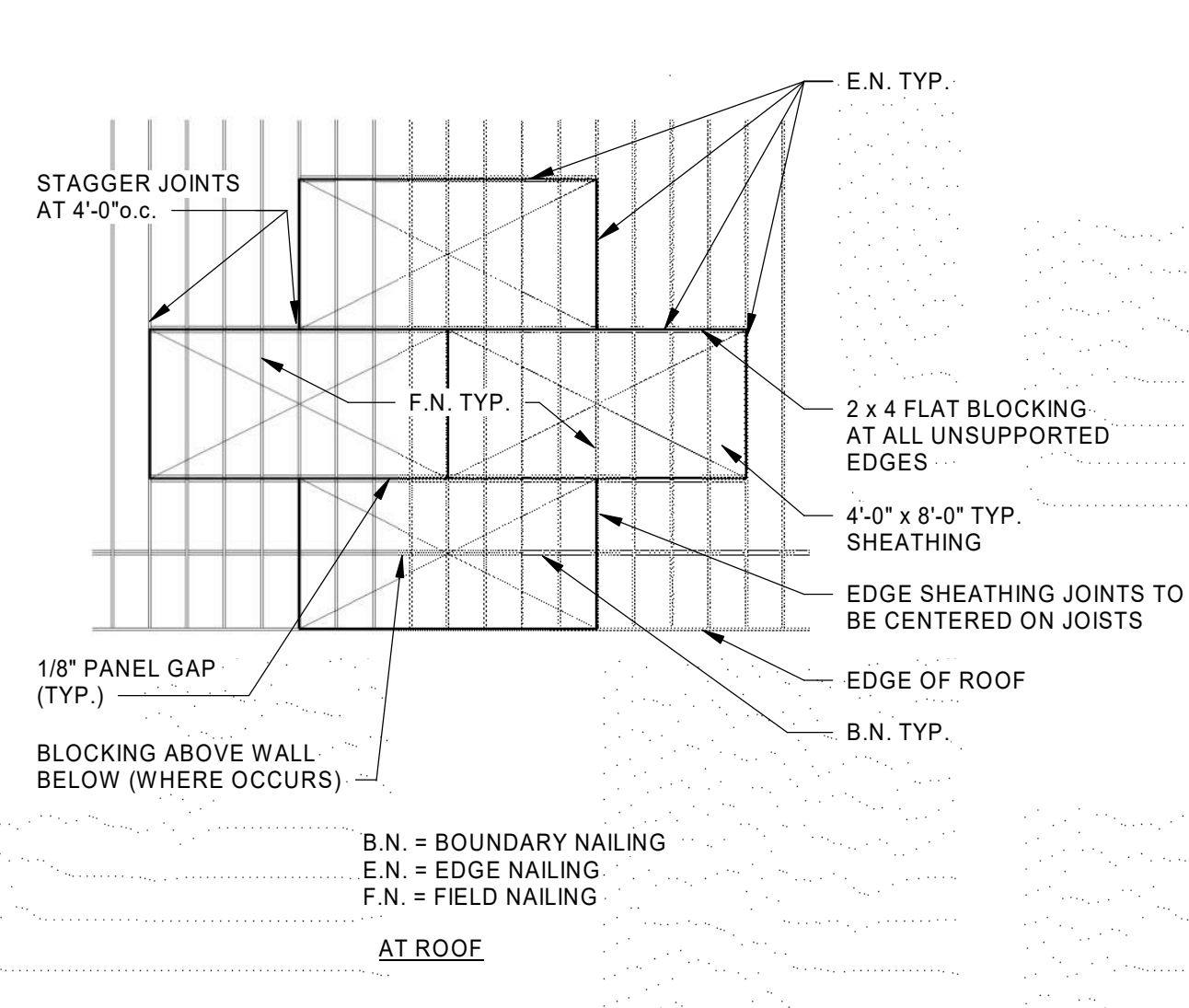
BALLOON FRAMED WALL W/ PARAPET
SCALE: NONE



DETAIL
SCALE: NONE
6
S203

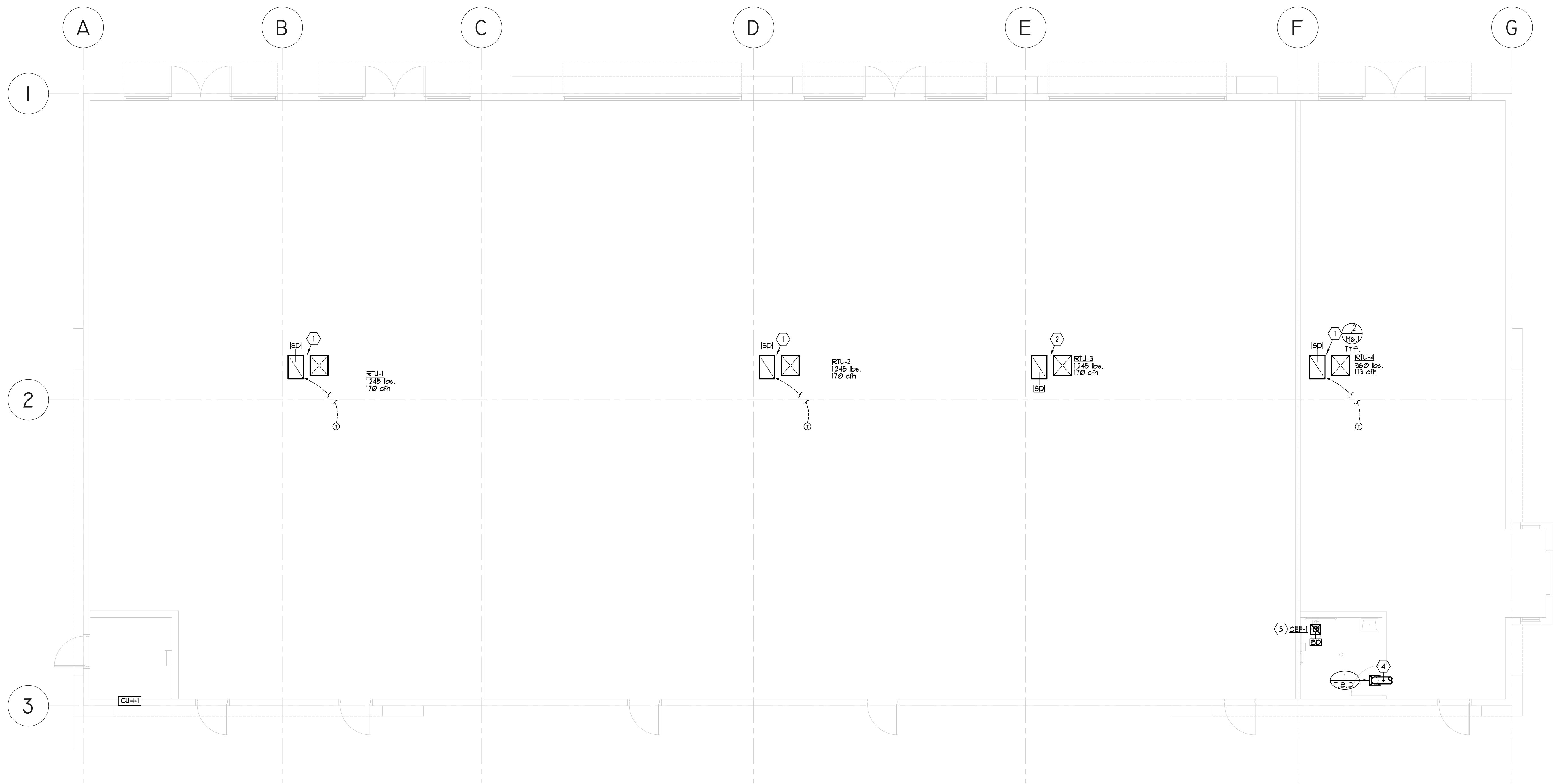


TYP. SHEATHING LAYOUT
SCALE: NONE



TYP. SHEATHING LAYOUT
SCALE: NONE
7
S203

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MECHANICAL FLOOR PLAN
SCALE: 3/16" = 1' - 0"

- KEYED NOTES:**
- 1 EXTEND DUCT WORK FULL-SIZED TO BOTTOM OF JOISTS. DROP TEMP. STAT (BT M.C.) TO 8'-00" A.F.F. AND SET HEATING TO 40°.
 - 2 EXTEND DUCT WORK FULL-SIZED TO BOTTOM OF JOISTS / COVER OPENINGS.
 - 3 6" Ø EXHAUST THROUGH ROOF. TERMINATE W/ WEATHERPROOF CAP.
 - 4 PROVIDE / INSTALL FLAQUE DIFFUSER W/ 2-WAY BLOCK-OFFS. RISE DUCT INTO JOIST SPACE FOR FINAL CONNECTIONS BY OTHERS.
- GENERAL NOTES:**
- A CONTRACTOR SHALL VERIFY THAT ALL VENTS AND EXHAUSTS ARE A MINIMUM OF 10'-00" FROM ANY FRESH AIR INTAKE. ANY REQUIRED OFF-SETS SHALL OCCUR BELOW THE ROOF STRUCTURE.

SANTAQUIN
RETAIL PAD C

MARK	DATE	DESCRIPTION

DATE: 8.21.20
PVE PROJECT NO: 20074.00
DESIGN SEQUENCE PROJECT NO:
CAD DWG FILE NO:

DRAWN BY: TE
DESIGNED BY: BNS
DWG TYPE:
ARCHITECTURAL PHASE: PERMIT SET
SHEET TITLE

MECHANICAL FLOOR
PLAN

M1.1

KEYED NOTES:

- 1 EXTEND UTILITIES 5' BEYOND BUILDING'S EDGE FOR CONNECTIONS BY CIVIL.
- 2 CAP SANITARY / FUTURE GREASE LINE AT FINISH FLOOR ELEVATION FOR CONNECTIONS BY FUTURE TENANT.
- 3 CAP FUTURE GREASE LINE AT FINISH FLOOR ELEVATION / FINISH GRADE OUTSIDE BUILDING EDGE FOR CONNECTIONS BY FUTURE TENANT.
- 4 CAP FUTURE SANITARY LINE AT FINISH FLOOR ELEVATION FOR CONNECTIONS BY FUTURE TENANT.
- 5 INSULATE ROOF DRAIN BOULDS AND ALL HORIZONTALLY INSTALLED ROOF / OVERFLOW DRAIN PIPING.

GENERAL NOTES:

- A CONTRACTOR SHALL VERIFY THAT ALL VENTS ARE A MINIMUM OF 10'-00" FROM ANY FRESH AIR INTAKE. ANY REQUIRED OFF-SETS SHALL OCCUR BELOW THE ROOF STRUCTURE.

SANTAQUIN
RETAIL PAD C

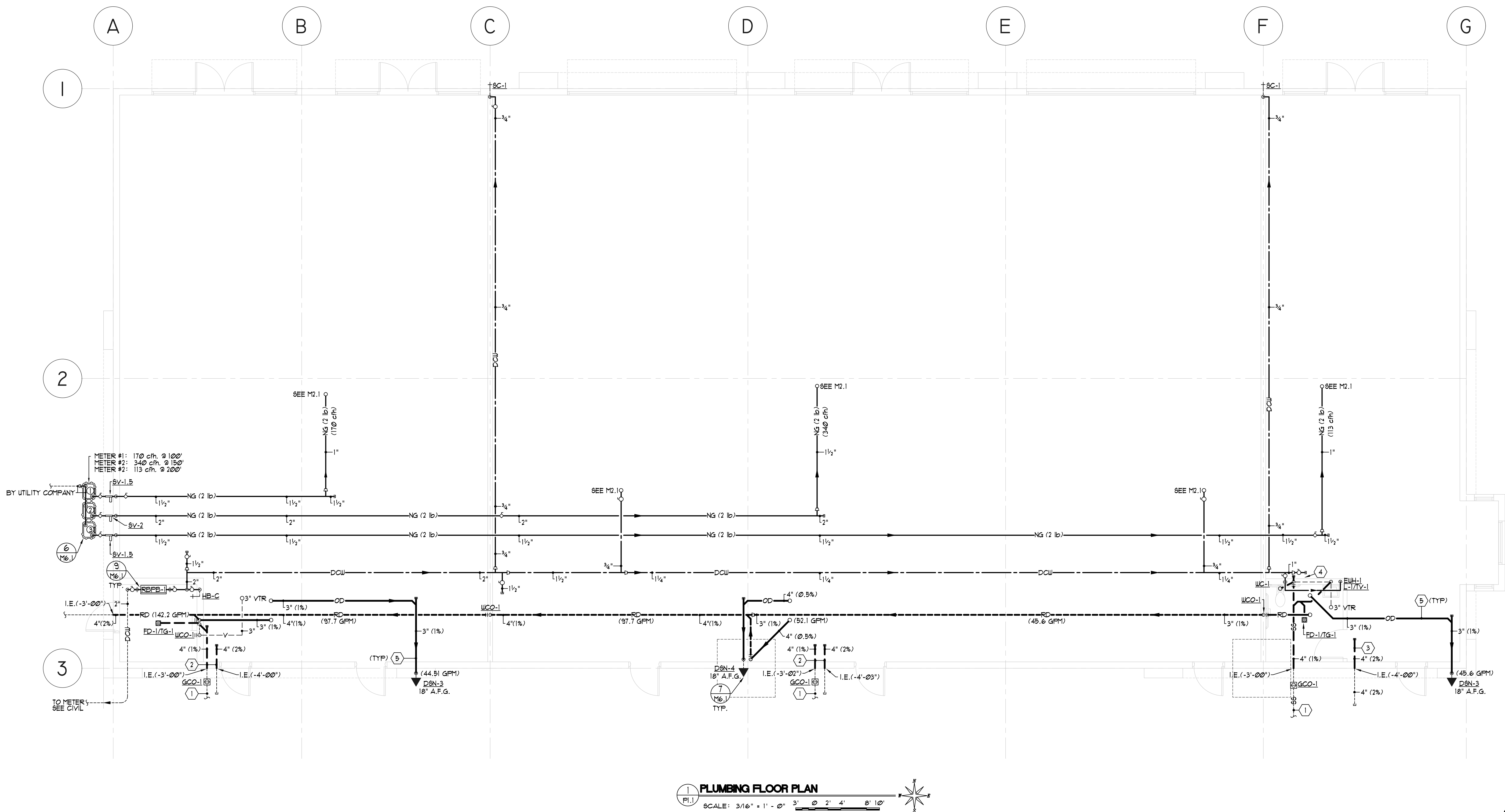
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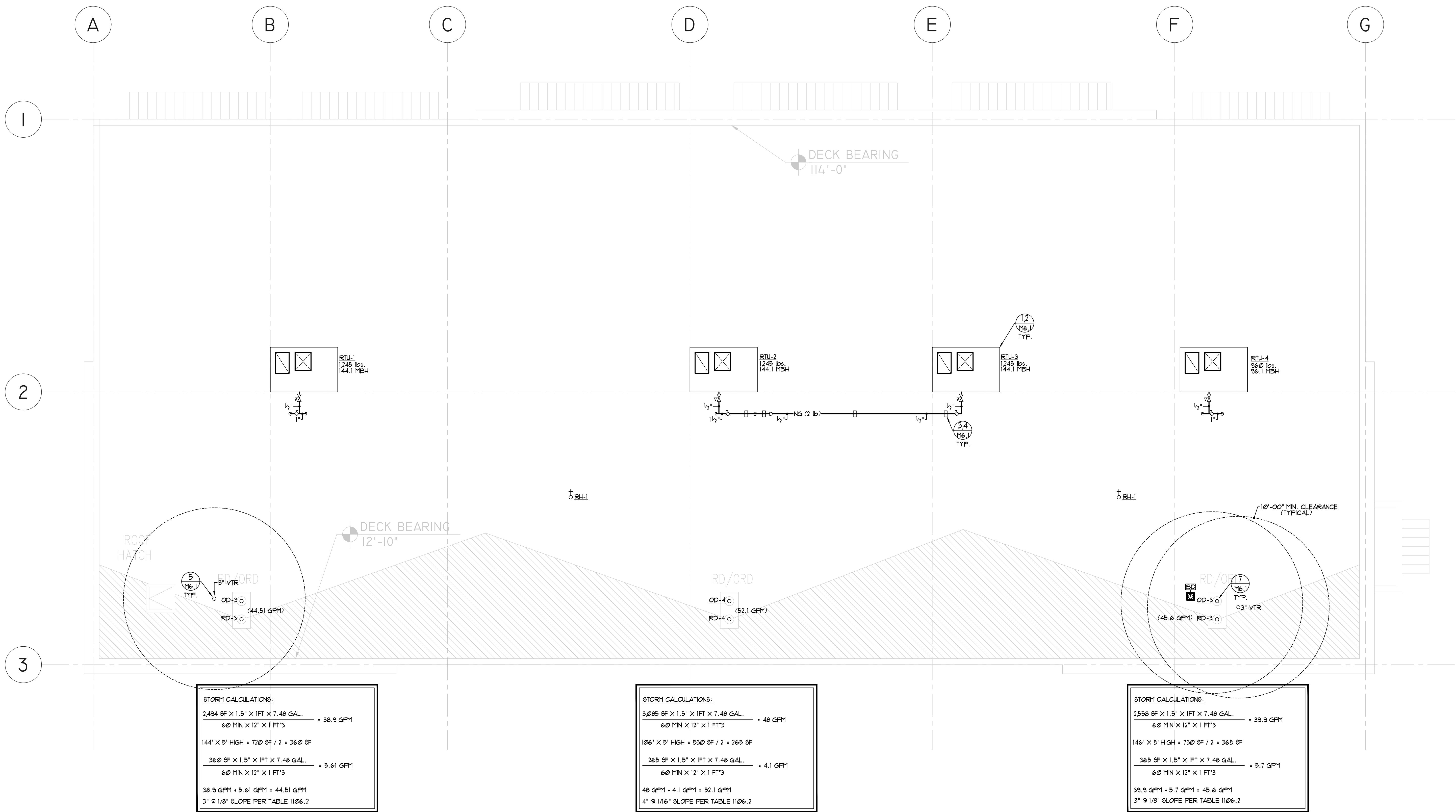
DATE: 8.21.20
PVE PROJECT NO: 20074.00
DESIGN SEQUENCE PROJECT NO:
CAD DWG FILE NO:

DRAWN BY: TE
DESIGNED BY: BNS
DWG TYPE:
ARCHITECTURAL PHASE: PERMIT SET
SHEET TITLE

PLUMBING FLOOR
PLAN

P1.1





SANTAQUIN
RETAIL PAD C

MARK	DATE	DESCRIPTION

DATE: 8.21.20

PVE PROJECT NO: 20074.00

DESIGN SEQUENCE PROJECT NO:

CAD DWG FILE NO:

DRAWN BY: TE

DESIGNED BY: BNS

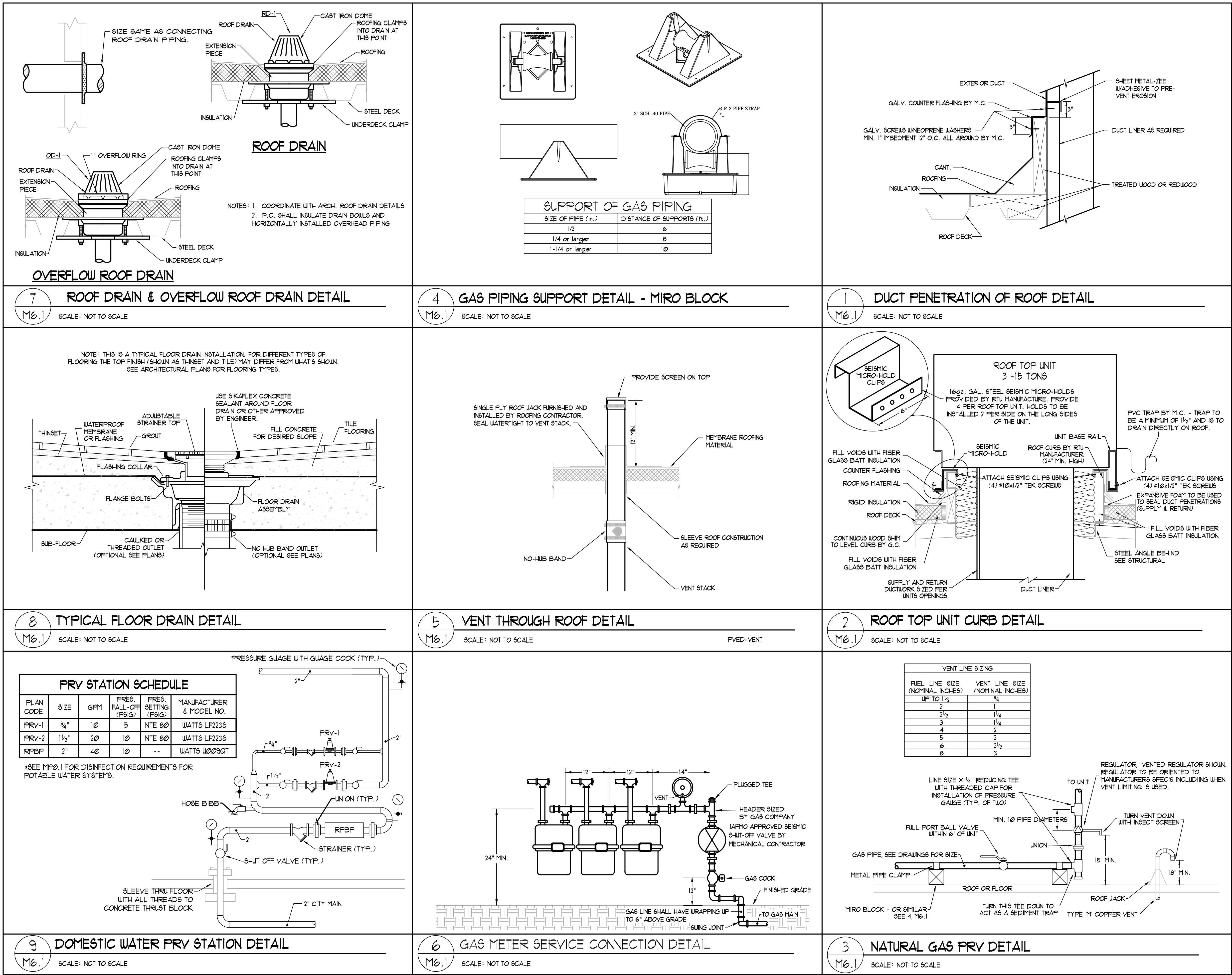
DWG TYPE:

ARCHITECTURAL PHASE: PERMIT SET

SHEET TITLE

MECHANICAL ROOF
PLAN

M2.1



ELECTRICAL SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
	MECHANICAL/PLUMBING EQUIPMENT CALLOUT		
	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.		
	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.		
	LUMINAIRE TYPE		
	DIAGRAM/DETAIL CALLOUT		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	SURFACE RACEWAY/WIREMOLD		
	LOW VOLTAGE CONDUIT RUN		
	DEMOLITION		
	EXISTING		
	HOME RUN TO PANEL		
	CONDUIT STUB		
	CONDUIT BREAK/CONTINUATION		
	CONDUIT STUB DOWN		
	CONDUIT STUB UP		
	FUSE		
	GROUND/GROUND ROD		
	CIRCUIT BREAKER		
	TELEPHONE OUTLET, SINGLE PORT	18"	
	TELEPHONE OUTLET, CUSTOM HEIGHT		(6)
	DATA OUTLET, DUAL PORT	18"	
	DATA OUTLET, CUSTOM HEIGHT		(6)
	DUAL DATA AND SINGLE TELEPHONE PORT	18"	
	DUAL DATA AND SINGLE TELEPHONE PORT, CUSTOM HEIGHT		(6)
	DATA OUTLET, ATTRIBUTE SIGNIFIES PORT QUANTITY	18"	
	TELEPHONE OUTLET, SINGLE PORT, FLOOR MOUNTED	FLOOR	
	DATA OUTLET, DUAL PORT, FLOOR MOUNTED	FLOOR	
	TELEVISION OUTLET	AS NOTED	(6) (11)
	NURSE CALL STATION, SINGLE BED	4'-11"	(11)
	NURSE CALL STATION, DOUBLE BED	4'-11"	(11)
	NURSE CALL STATION, EMERGENCY	4'-11"	(11)
	NURSE CALL STATION, CODE BLUE	4'-11"	(11)
	NURSE CALL STATION, MICROPHONE/SPEAKER UNIT	4'-11"	(11)
	NURSE CALL PULL CHAIN	AS NOTED	
	NURSE CALL DOME LIGHT	CEILING	(11)
	NURSE CALL DOME LIGHT, WALL	WALL	(11)
	SPEAKER	CEILING	
	SPEAKER, WALL	AS NOTED	(11)
	VOLUME CONTROL, WALL	4'-0"	(11)
	MICROPHONE, WALL	AS NOTED	(11)
	MICROPHONE, FLOOR	FLOOR	
	BELL, WALL	AS NOTED	
	CHIME, WALL	AS NOTED	
	SECURITY CAMERA, FIXED	CEILING	
	SECURITY CAMERA, PTZ	CEILING	
	SECURITY CAMERA, FIXED, WALL	AS NOTED	(11)
	SECURITY CAMERA, PTZ, WALL	AS NOTED	(11)
	CARD READER	4'-0"	(11)
	DOOR CONTACT	4'-0"	(11)
	REQUEST TO EXIT	4'-0"	(11)
	KEYPAD	4'-0"	(11)
	ELECTRIC HINGE	4'-0"	(11)
	ELECTRIC LATCH	4'-0"	(11)
	ELECTRIC STRIKE	4'-0"	(11)
	BIOMETRIC READER	4'-0"	(11)
	MAIN DISTRIBUTION FRAME	6'-6" TO TOP	
	INTERMEDIATE DISTRIBUTION FRAME	6'-6" TO TOP	
ABBREVIATIONS			
A AMPS	ENT ELEC. NON-METAL TUBING	NL NIGHT LIGHT, BYPASS	
AFC AVAILABLE FAULT CURRENT	ER EXISTING TO BE RELOCATED	LOCAL SWITCHING	
AFF ABOVE FINISHED FLOOR	EX EXISTING TO REMAIN	PC PLUMBING CONTRACTOR	
AFG ABOVE FINISHED GRADE	FMC FLEXIBLE METAL CONDUIT	POC POINT OF CONNECTION	
AIC AMPS INTERR. CAPACITY	GC GENERAL CONTRACTOR	POS POINT OF SALE	
AWG AMERICAN WIRE GAUGE	GEC GRND. ELEC. COND. AT SES	R RELOCATED	
BC BARE COPPER	GFO GRND. FLT. CURR. INTERR.	RM ROOF MOUNTED	
BFC BELOW FINISHED CEILING	GND GROUND	RMG RIGID METALLIC CONDUIT	
BFG BELOW FINISHED GRADE	IMC INTER. METAL CONDUIT	RNC RIGID NON-METALLIC COND.	
C CONDUIT	IG ISOLATED GROUND	SBJ SYSTEM BONDING JUMPER	
CHD CONDUIT ONLY	KCML 1000 CIRCULAR MILS (MCM)	SCA SHORT CIRCUIT AMPERES	
CT CURRENT TRANSDUCER	LFMC LIQUID-TIGHT FLEX.	T TRANSMITTER	
CJ COPPER MATERIAL	METAL COND.	TC TEMP. CONTROL CONTR.	
DED DEDICATED	LFG LIQUID-TIGHT FLEX.	UG UNDERGROUND	
DFA DROP FROM ABOVE	MC NON-METAL. COND.	UNO UNLESS NOTED OTHERWISE	
EC ELECTRICAL CONTRACTOR	MCA MECHANICAL CONTRACTOR	VA VOLTAGMS	
EF EXHAUST FAN	N1 MINIMUM CIRCUIT AMPS	VIF VERIFY IN FIELD	
EM EMER/EGRESS BATTERY	N1 NEMA 1	WP WEATHERPROOF/NEMA 3R	
EMT ELEC. METALLIC TUBING	NSR NEMA 3R	XP EXPLOSION PROOF	
	N NEW	XR EXISTING TO BE REMOVED	
NOTES			
(1) SEE LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS.			
(2) SEE LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS.			
(3) WIRE LIGHT FIXTURE FROM ADJACENT J-BOX			
(4) CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST			
(5) DIRECTIONAL ARROWS INDICATE REQUIRED CHEVRONS.			
(6) COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR ELEVATIONS			
(7) USE WITH POWER PACK.			
(8) "X" IN SYMBOL, IS INCHES BETWEEN RECEPTACLE ALONG WIREWAY. SEE DRAWINGS.			
(9) PROVIDE UL LISTED DEVICE COMPATIBLE WITH THE FIRE ALARM PANEL/SYSTEM.			
(10) MATCH THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLING CIRCUIT.			
(11) USE A 4" X 4" BOX WITH A MUD RING TO MATCH THE DEVICE AND INSTALLATION.			
(12) PROVIDE MUD RING AND/OR BOX COVER APPROPRIATE FOR DEVICE/FIXTURE SERVED.			
(13) USE HEAVY DUTY DEVICE FOR 480 VOLT.			
(14) SIZE TO THE EQUIPMENT BEING CONTROLLED			
(15) FIRE ALARM PANELS: FACP: FIRE ALARM CONTROL PANEL, NAC: NOTIFICATION APPLIANCE			CIRCUIT
PANEL, ANNUN: GRAPHIC ANNUNCIATOR PANEL, AND SES: SMOKE EVACUATION SYSTEM			
PANEL			
(16) LIGHT FIXTURES ARE SCALED WITHIN THE DRAWINGS BASED ON ACTUAL DIMENSIONS.			

ELECTRICAL SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
	MAIN TELEPHONE BOARD	6'-6" TO TOP	
	SECURITY PANEL, SURFACE	AS NOTED	
	SECURITY PANEL, RECESSED	AS NOTED	
	SMOKE DETECTOR	CEILING	(9) (11)
	SMOKE DETECTOR, SOUNDER BASE	CEILING	(9)
	SMOKE DETECTOR, SOUNDER BASE, WALL	7'-6"	(9) (11)
	SMOKE DETECTOR, SOUNDER BASE, VISUAL IND.	CEILING	(9)
	SMOKE DETECTOR, SOUNDER BASE, VISUAL IND., WALL	7'-6"	(9) (11)
	DUCT SMOKE DETECTOR	SEE MECH.	(9)
	FIRE/SMOKE DAMPER	SEE MECH.	
	HEAT DETECTOR	CEILING	(9) (11)
	BEAM DETECTOR, RECEIVER		(9)
	BEAM DETECTOR, TRANSMITTER		(9)
	BEAM DETECTOR, RECEIVER/TRANSMITTER		(9)
	BEAM DETECTOR, REFLECTOR		(9)
	FLAME DETECTOR		(9)
	FIRE FIGHTER TELEPHONE OUTLET		(9) (11)
	FIRE ALARM MANUAL PULL STATION	4'-0"	(9) (11)
	FIRE ALARM STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	7'-6"	
	FIRE ALARM HORN	7'-6"	(9) (11)
	FIRE ALARM HORN STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	7'-6"	(9) (11)
	FIRE ALARM SPEAKER	7'-6"	(9) (11) (18)
	FIRE ALARM SPEAKER STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	7'-6"	(9) (11) (18)
	FIRE SPRINKLER FLOW BELL	7'-6" AFF	(9)
	FIRE ALARM CHIME	AS NOTED	(9)
	ELECTRO MAGNETIC DOOR HOLDER	AS NOTED	
	RELAY MODULE		(9)
	MONITOR MODULE		(9)
	CONTROL MODULE		(9)
	PRESSURE SWITCH		(9)
	TAMPER SWITCH		(9)
	FLOW SWITCH		(9)
	LOOP ISOLATION MODULE		(9)
	FIRE EXTINGUISHER MONITOR		(9)
	FIRE RISER	SEE PLANS	
	FIRE ALARM PANEL, SURFACE	AS NOTED	(15)
	FIRE ALARM PANEL, RECESSED	AS NOTED	(15)
(S) (D) (Q)	(S) SIMPLEX (D) DUPLEX (Q) QUADPLEX OR DOUBLE DUPLEX		
	STANDARD CONVENIENCE OUTLET	18"	
	CONVENIENCE OUTLET, GFCI	18"	
	STANDARD CONVENIENCE OUTLET, EMERGENCY	18"	
	STANDARD CONVENIENCE OUTLET, SWITCHED	18"	
	STANDARD CONVENIENCE OUTLET, CUSTOM HEIGHT		
	CONVENIENCE OUTLET, GFCI, CUSTOM HEIGHT		
	CONVENIENCE OUTLET, ISOLATED GROUND	18"	
	CONVENIENCE OUTLET, FLOOR	FLOOR	
	CONVENIENCE OUTLET, CEILING	CEILING	
	2 CIRCUITS TO EACH DEVICE	18"	
	COMBINATION POWER AND COMMUNICATION FLOOR BOX	FLOOR	
	SPECIAL PURPOSE OUTLET		
	DIRECT CONNECTION TO EQUIPMENT		
	CORD DROP OUTLET	SUSPENDED	
	POWER/VOICE-DATA SERVICE POLE	AS NOTED	
	DISTRIBUTION JUNCTION UNIT		
	VARIABLE FREQUENCY DRIVE		
	TRANSIENT VOLTAGE SURGE SUPPRESSION		
	JUNCTION BOX	AS NOTED	(12)
	JUNCTION BOX, WALL	AS NOTED	(12)
	JUNCTION BOX, FLOOR	FLOOR	(12)
	CLOCK OUTLET		(*)
	MANUAL MOTOR CONTROLLER SWITCH WITHOUT TERMINAL OVERLOAD PROTECTION		
	SWITCH WITH PILOT LIGHT		
	MANUAL SWITCH WITH THERMAL OVERLOAD		
	SINGLE POLE DOOR SWITCH		
	PUSH BUTTON SWITCH, SINGLE	AS NOTED	
	PUSH BUTTON SWITCH, DOUBLE	AS NOTED	
	BUSCH BUTTON SWITCH, TRIPLE	AS NOTED	
	EMERGENCY POWER OFF (EPO) SWITCH		
	NON-FUSED DISCONNECT SWITCH		(13) (14)
	FUSED DISCONNECT SWITCH		(13) (14)
	MAGNETIC STARTER		(13) (14)
	MAGNETIC STARTER WITH FUSED DISCONNECT		(13) (14)
	MAGNETIC STARTER WITH BREAKER DISCONNECT		(13) (14)
	POWER RELAY		(13) (14)

ELECTRICAL SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
	MOTOR OUTLET		
	MOTOR OUTLET, ROOF MOUNTED	ROOF	
	LIGHTNING PROTECTION AIR TERMINAL	ROOF	
	LIGHTNING PROTECTION BOND PLATE		
	LIGHTNING PROTECTION GROUND ROD	GROUND	
	POKE THRU		
	UTILITY POWER POLE	SEE PLANS	
	TRANSFORMER	SEE PLANS	
	TRANSFORMER	SEE PLANS	
	EMERGENCY GENERATOR	SEE PLANS	
	CABLE TRAY		
	MAIN DISTRIBUTION POWER PANEL		
	PANEL BOARD, SURFACE	6'-6" TO TOP	(15)
	PANEL BOARD, RECESSED	6'-6" TO TOP	(15)
	2x4 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x4 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x2 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x2 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	RECESSED LIGHT FIXTURE	CEILING	(1) (3)
	RECESSED EMERGENCY LIGHT FIXTURE	CEILING	(1) (3)
	RECESSED WALL WASH LIGHT FIXTURE	CEILING	(1) (3)
	CEILING LIGHT FIXTURE	CEILING	(1) (2)
	PENDANT/CHANDELLIER LIGHT FIXTURE	SUSPENDED	(1) (2) (3)
	WALL LIGHT FIXTURE, SURFACE	AS NOTED	(1) (2)
	WALL LIGHT FIXTURE, RECESSED	AS NOTED	(1) (2)
	TRACK LIGHT FIXTURE WITH TRACK	CEILING	(1) (2) (3)
	CEILING FAN	SUSPENDED	
	FLOOD/LANDSCAPE/MONUMENT LIGHT FIXTURE	GROUND	(1) (2) (3)
	AREA LIGHT FIXTURE	POLE	(1) (2)
	EXIT SIGN, WALL	7'-6"	(1) (2) (4) (5)
	EXIT SIGN	CEILING	(1) (4) (5)
	EMERGENCY LIGHT FIXTURE, WALL	7'-6"	(1) (2)
	PHOTO-ELECTRIC CELL	AS NOTED	
	POWER PACK	CEILING	
	SLAVE PACK	CEILING	
	MINI POWER PACK	CEILING	
	EMERGENCY CONTROL UNIT	CEILING	
	DUAL TECHNOLOGY VACANCY SENSOR	CEILING	(7)
	DUAL TECHNOLOGY VAC. SENSOR, WALL	AS NOTED	(7)
	DUAL TECHNOLOGY VAC. SENSOR SWITCH, 1-BUTTON	4'-0"	(7)
	DUAL TECHNOLOGY VAC. SENSOR SWITCH, 2-BUTTON	4'-0"	(7)
	DAYLIGHT SENSOR	CEILING	
	MOTION SENSOR	AS NOTED	
	PASSIVE INFRARED SENSOR	CEILING	
	SINGLE POLE SWITCH	4'-0"	
	DOUBLE POLE, SINGLE THROW SWITCH	4'-0"	
	THREE WAY SWITCH	4'-0"	
	THREE WAY SWITCH ATTRIBUTE SIGNIFIES FIXTURE SWITCHING	4'-0"	
	FOUR WAY SWITCH	4'-0"	
	DUAL LEVEL SWITCH BANK	4'-0"	
	DIMMER SWITCH	4'-0"	
	LOW VOLTAGE SWITCH	4'-0"	
	KEYED SWITCH, SINGLE POLE	4'-0"	(15)
	7-DAY TIMER SWITCH, SINGLE POLE	4'-0"	(15)
	TIME CLOCK	AS NOTED	
	LIGHTING CONTROL PANEL, SURFACE	6'-6" TO TOP	
	LIGHTING CONTROL PANEL, RECESSED	6'-6" TO TOP	

Sheet List Table	
Sheet Number	Sheet Title
EG001	ELECTRICAL NOTES & SYMBOLS
EG501	ELECTRICAL SPECIFICATIONS
EG502	ELECTRICAL DETAILS
EG601	ELECTRICAL SCHEDULES & ONE LINE
EG602	ELECTRICAL PANEL SCHEDULES
ES101	ELECTRICAL SITE PLAN
EP101	OVERALL ELECTRICAL PLAN
EP102	ELECTRICAL ROOF PLAN

GENERAL NOTES	
1.	THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE.
2.	THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
3.	NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.
4.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.
5.	THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION, OR AFTER, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
6.	ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.
7.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED FROM. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BREAKERS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
8.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE TELE/DATA ROOM FROM WHICH NEW TELE/DATA OUTLETS WILL BE FED FROM. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS AS NECESSARY TO LAND ALL NEW TELE/DATA CABLING.
9.	THE ELECTRICAL CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE ELECTRICAL CONTRACTOR SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
10.	THE ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS, CABINETS, DISCONNECT, TRANSFORMERS, ETC. AND SHALL MOVE THE PANELS/EQUIPMENT AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
11.	CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE AND OTHER POTENTIAL OBSTRUCTIONS.
12.	THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
13.	THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES.
14.	MINIMUM SIZE CONDUIT SHALL BE 3/4", ABOVE GROUND CONDUIT SHALL BE EMT WITH STEEL SET SCREW FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.
15.	FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEALTITE CONDUIT SHALL NOT BE GREATER THAN 72" INCHES.
16.	WIRING DEVICES SHALL MATCH EXISTING COLOR AND FACEPLATE TYPE.
17.	TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION. ANY DEVICE BOXES NOT SECURED WILL BE MADE SECURE AT THE CONTRACTORS EXPENSE.
18.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.
19.	BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR), THE UNCOVERING AND REPLACEMENT OF ELECTRICAL WORK FOR THE INSPECTION PURPOSES WILL BE AT THE COST OF THE ELECTRICAL CONTRACTOR.
20.	ALL BATTERY POWERED OR CONTINUOUS BURN LUMINAIRES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA.
21.	LUMINAIRES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.
22.	ALL LUM

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

A. DESCRIPTION

- FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.

B. RULES AND REGULATIONS

- ALL WORK AND MATERIALS SHALL BE INSTALLED AS SHOWN AND HEREIN SPECIFIED.
- THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS, STANDARDS, AND AMENDMENTS, AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION, SHALL FORM A PART OF THIS SPECIFICATION THE SAME AS IF HEREIN WRITTEN OUT IN FULL (ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS THEREOF):
 - NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), PUBLICATION NUMBER 70, "NATIONAL ELECTRICAL CODE"; PUB. NO. 72E, "AUTOMATIC FIRE DETECTORS".
 - UL (UNDERWRITERS LABORATORIES, INC.).
 - NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION).
 - UBC (UNIFORM BUILDING CODE) AND STANDARD BUILDING CODE.
 - IBC (INTERNATIONAL BUILDING CODE)
 - IFC (INTERNATIONAL FIRE CODE)
 - IECC (INTERNATIONAL ENERGY CONSERVATION CODE)
 - IEC (INTERNATIONAL ELECTRICAL CODE) STATE AND
 - LOCAL BUILDING AUTHORITY AND CODES
- NO REQUIREMENT TO THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSTRUCTED TO VOID ANY OF THE PROVISIONS OF THE ABOVE SPECIFICATIONS AND STANDARDS.

C. PERMITS AND INSPECTIONS UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL APPLY, PAY FOR AND SCHEDULE ALL APPLICABLE PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY AND ALL PUBLIC AUTHORITIES HAVING JURISDICTION AND REQUIRING INSPECTION.

- EC SHALL INCLUDE ALL UTILITY COMPANY CHARGES IN THE BASE BID.

D. WORKMANSHIP AND MATERIALS

- WORKMANSHIP SHALL BE OF THE BEST QUALITY AND NONE BUT COMPETENT PERSONNEL SKILLED IN THEIR TRADE SHALL BE EMPLOYED. THE CONTRACTOR SHALL FURNISH THE SERVICES OF AN EXPERIENCED SUPERINTENDENT, WHO WILL BE IN CHARGE OF THE EXECUTION OF WORK, UNTIL COMPLETED AND ACCEPTED.
- UNLESS OTHERWISE HEREIN AFTER SPECIFIED, ALL MATERIALS AND EQUIPMENT UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE NEW, OF BEST GRADE AND AS LISTED IN PRINTED CATALOGS OF THE MANUFACTURER, EACH ARTICLE OF IT'S KIND SHALL BE THE STANDARD PRODUCT OF A SINGLE MANUFACTURER.
- THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT TO ACCEPT OR REJECT MATERIAL EQUIPMENT AND/OR WORKMANSHIP AND DETERMINE WHEN THEY HAVE COMPLIED WITH THE REQUIREMENTS HEREIN SPECIFIED.
- ALL MANUFACTURED MATERIALS SHALL BE CLEARLY MARKED OR STAMPED WITH THE MANUFACTURER'S NAME AND RATING.
- REFERENCE TO STANDARDS ARE INTENDED TO BE THE LATEST REVISION OF THE STANDARD SPECIFIED, OR THAT ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.

E. MANUFACTURER'S RECOMMENDATIONS

- EQUIPMENT INSTALLED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED.

F. GUARANTEE ALL MATERIALS AND EQUIPMENT PROVIDED AND INSTALLED UNDER THIS SECTION SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR. SHOULD ANY TROUBLE OR MALFUNCTIONS DEVELOP DURING THIS PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP, THE CONTRACTOR WILL BE HELD LIABLE AND SHALL FURNISH LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CORRECT THE TROUBLE OR MALFUNCTION WITHOUT ADDITIONAL COST TO THE OWNER. ALL DEFECTIVE MATERIAL OR INFERIOR WORKMANSHIP NOTICED DURING THE TIME OF INSTALLATION SHALL BE CORRECTED IMMEDIATELY TO THE ENTIRE SATISFACTION OF THE ARCHITECT, ENGINEER AND OWNER, AT NO ADDITIONAL COST.

G. DEFINITIONS

- "PROVIDE" - MEANS FURNISH, INSTALL, AND CONNECT, UNLESS OTHERWISE INDICATED.
- "FURNISH" - MEANS PURCHASE NEW AND DELIVER IN OPERATING ORDER TO PROJECT SITE.
- "INSTALL" - MEANS TO PHYSICALLY INSTALL THE ITEMS IN-PLACE.
- "CONNECT" - MEANS MAKE FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE OPERATING PIECE OF EQUIPMENT. THIS INCLUDES PROVIDING CONDUIT, WIRE, TERMINATIONS, ETC. AS APPLICABLE.
- "OR EQUIVALENT" - MEANS TO PROVIDE EQUIVALENT EQUIPMENT. SUCH EQUIPMENT MUST BE APPROVED BY THE ENGINEER PRIOR TO BIDDING.

H. SUBMITTALS

- PROVIDE SHOP DRAWINGS AND MANUFACTURER'S LITERATURE OF MATERIALS AND EQUIPMENT AS REQUIRED IN THE GENERAL CONDITIONS, AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND AS LISTED BELOW:
- CATALOG CUTS
 - CIRCUIT BREAKERS (EACH SIZE AND TYPE)
 - SAFETY SWITCHES
 - MOTOR STARTERS
 - THERMAL SWITCHES
 - LIGHT FIXTURES

THE ABOVE IS A STANDARD SUBMITTAL REQUIREMENT LIST. ELECTRICAL CONTRACTOR SHALL SUBMIT ALL APPLICABLE ITEMS FOR REVIEW. MATERIAL NOT SUBMITTED AND APPROVED BY THE ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS COST IF DIRECTED BY THE ARCHITECT, ENGINEER OR THE OWNER'S REPRESENTATIVE.

PART 2 - MATERIALS

A. GENERAL

- MATERIALS AND EQUIPMENT SHALL BE STANDARD CATALOGED PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURE OF THE PRODUCT. UL LISTED, AND SHALL BE THE LATEST STANDARD DESIGN THAT CONFORMS TO SPECIFIED MATERIALS AND EQUIPMENT.

B. RACEWAY

- ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS.
- GALVANIZED FLEXIBLE STEEL (FMC) OR LIQUID TIGHT STEEL (LFMC) CONDUIT SHALL BE USED FOR

CONNECTIONS TO EXISTING EQUIPMENT, LUMINAIRES AND TRANSFORMERS AND AS INDICATED. LIQUID TIGHT CONDUIT SHALL BE USED IN EXTERIOR OR DAMP LOCATIONS.

SCHEDULE 40 PVC (WITH PVC COATED OR VINYL TAPE DOUBLE WRAPPED RIGID STEEL ELBOWS AND RISES) SHALL BE USED FOR RUNS THAT ARE IN CONTACT WITH THE EARTH.

3/4" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT.

OUTDOOR AND WET OR DAMP LOCATIONS; PROVIDE RIGID STEEL CONDUIT.

C. FITTINGS

- ALL FITTINGS SHALL BE STEEL/MALLEABLE IRON WITH INSULATING BUSHINGS.

D. OUTLET AND JUNCTION BOXES

- BOXES IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE, NOT LESS THAN 4 INCHES SQUARE AND 2 1/8" DEEP, APPLETON, RACO, OR EQUAL.
- BOXES SHALL BE EQUIPPED WITH PLASTER RINGS, EXTENSION RINGS, AND FIXTURE STUDS AS REQUIRED.
- BOXES FOR FLOOR OUTLETS SHALL BE OF THE CAST-METAL THREADED-CONDUIT-ENTRANCE, WATERPROOF TYPE WITH MEANS FOR ADJUSTING COVER PLATE TO FINISHED FLOOR LEVEL. BOXES SHALL BE SUCH AS HUBBELL B2303 OR EQUAL. THE COVER SHALL BE HUBBELL S3925, S3082 OR EQUAL TO MATCH THE FLOOR TYPE OR AS SHOWN ON THE PLANS.
- PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
- BOXES FOR STRUCTURED CABLING (DATA & PHONE) IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE 4 11/16" x 2 1/8", APPLETON, RAYCO OR EQUAL.
- ALL BOXES IN FINISHED SPACES SHALL BE PROVIDED WITH MUD RINGS AS REQUIRED FOR THE DEVICE AND WALL MATERIAL.
- OUTDOOR AND WET OR DAMP LOCATIONS; PROVIDE CAST METAL OR PVC OUTLET, JUNCTION, AND PULL BOXES.

E. CONDUCTORS

- ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER IN RACEWAY SIZED AS SHOWN ON THE PLANS. ALL CONDUCTORS TO BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE #8 AWG AND LARGER SHALL BE STRANDED.
- CONDUCTORS SHALL BE COPPER, THHN OR THWN-2 COLOR CODED IN ACCORDANCE WITH PART 3, SECTION C. 1. OF THESE SPECIFICATIONS OR AS INDICATED ON THE DRAWINGS.

F. WIRING CONNECTIONS

- MAKE ALL ELECTRICAL CONNECTIONS.
- MAKE CONNECTION TO DEVICES USING "PIG-TAILS". DO NOT USE A DEVICE AS A CONNECTION OR A SPLICE UNIT.
- DO NOT PLACE STRANDED CONDUCTORS DIRECTLY UNDER SCREWS. INSTALL CRIMP-ON, INSULATED, FORK TERMINALS FOR CONDUCTOR TERMINATIONS, OR INSTALL SOLID CONDUCTORS.

G. NAMEPLATES

- PROVIDE EACH PANEL BOARD, DISCONNECT SWITCH, AND BREAKER IN SWITCHBOARD WITH A MICARTA PLASTIC NAMEPLATE MADE OF WHITE-FACED BLACKCORE PLASTIC LAMINATE. NAMEPLATE SHALL BE MINIMUM 3" WIDE BY 3/4" HIGH FOR PANEL BOARD IDENTIFICATION INCLUDE DESIGNATION, PHASE, VOLTAGE, AND CIRCUIT NUMBER. FASTEN WITH EPOXY GLUE. DOUBLE STICK TAPE IS NOT ACCEPTABLE.

J. FRACTIONAL HORSEPOWER MANUAL STARTER

- PROVIDE FRACTIONAL HORSEPOWER MANUAL STARTER WITH THE FOLLOWING FEATURES.
 - MELTING ALLOY TYPE THERMAL OVERLOAD RELAY
 - RED NEON PILOT LIGHT
 - THERMAL ELEMENT SIZED FOR MOTOR LOAD
- PROVIDE A NAMEPLATE ON EACH COMPONENT OF MOTOR CONTROL EQUIPMENT AS SPECIFIED IN "NAMEPLATES".

K. SAFETY SWITCHES

- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SAFETY SWITCHES AS INDICATED ON THE DRAWINGS OR AS REQUIRED. ALL SAFETY SWITCHES SHALL BE UL LISTED. THE SWITCHES SHALL BE FUSED SAFETY SWITCHES OR NON-FUSED SAFETY SWITCHES AS SHOWN ON THE DRAWINGS OR REQUIRED BY CODE AND SHALL BE MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS OR CUTLER HAMMER.
- SWITCHES SHALL HAVE A QUICK-MAKE AND QUICK-BREAK OPERATING HANDLE AND MECHANISM WHICH SHALL BE AN INTEGRAL PART OF THE BOX. PADLOCKING PROVISIONS SHALL BE PROVIDED FOR PADLOCKING IN THE OFF POSITION WITH AT LEAST THREE PADLOCKS. SWITCHES SHALL BE HORSEPOWER RATED FOR 250 VOLTS AC OR DC OR 600 VOLTS AC AS REQUIRED. LUGS SHALL BE UL LISTED FOR COPPER AND ALUMINUM CABLE AND SHALL HAVE A TEMPERATURE RATING OF AT LEAST 75 DEGREES C.
- SWITCHES SHALL BE FURNISHED IN NEMA 1 HEAVY DUTY ENCLOSURES WITH KNOCKOUTS UNLESS OTHERWISE NOTED OR REQUIRED. SWITCHES LOCATED ON THE EXTERIOR OF THE BUILDING OR IN "WET" LOCATIONS SHALL HAVE NEMA 3R ENCLOSURES (WP).
- THE SAFETY SWITCHES SHALL BE SECURELY MOUNTED IN ACCORDANCE WITH THE NEC. THE CONTRACTOR SHALL PROVIDE ALL MOUNTING MATERIALS AND INSTALL FUSES IN THE FUSED SAFETY SWITCHES. THE FUSES SHALL BE DUAL ELEMENT ON MOTOR CIRCUITS.
- PROVIDE FUSES AS SPECIFIED BELOW. FUSES SHALL BE INSTALLED SO THAT THE RATING IS CLEARLY VISIBLE WITHOUT REMOVING FUSE. PROVIDE A SPARE FUSE FOR EACH FUSE INSTALLED.
- PROVIDE A NAMEPLATE ON EACH DISCONNECT SWITCH AS SPECIFIED IN "NAMEPLATES".

L. FUSES

- FUSES SHALL BE CLASS "RK-1" REJECTION TYPE. FUSES SERVING MOTOR LOADS SHALL BE DUAL ELEMENT WITH A MINIMUM TIME DELAY OF 10 SECONDS AT 500% RATING. FUSES SHALL BE CURRENT LIMITING TIME DELAY TYPE WITH INTERRUPTING CAPACITY OF 200,000 AMP RMS SYMMETRICAL.
- FUSES SERVING SWITCH OR CIRCUIT BREAKER DISTRIBUTION PANELS, LIGHTING PANEL BOARDS AND OTHER NON - MOTOR LOADS NEED NOT BE TIME DELAY TYPE, BUT SHALL BE CURRENT LIMITING WITH THE INTERRUPTING CAPACITY OF 200,000AMP RMS SYMMETRICAL MINIMUM. FUSES SHALL BE BUSSMAN, GOULD OR LITTELFUSE.
- PROVIDE FUSES SIZED TO THE MAXIMUM SIZE RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT OR AS SHOWN ON THE DRAWINGS IF THE MANUFACTURER DOES NOT HAVE A RECOMMENDED SIZE.

PART 3 - EXECUTION

A. GENERAL

- ALL MATERIALS SHALL BE INSTALLED IN A PROFESSIONAL MANNER INDICATIVE OF THE TRADE.
- ALL PENETRATIONS OF THE OUTSIDE WALLS OR ROOF SHALL BE SEALED WITH APPROPRIATE SEALANT OR CAULK FOR THE PARTICULAR SURFACE INVOLVED.
- PROVIDE CLEAR, TYPED, P-TOUCH LABEL FOR ALL RECEPTACLES COVERPLATES IDENTIFYING THE CIRCUIT NUMBER THAT THE RECEPTACLE IS CIRCUITED TO.
- PROVIDE UPDATED TYPED PANEL SCHEDULE INDEX FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED OR CHANGED.

B. RACEWAYS

- RACEWAYS SHALL RUN CONCEALED UNLESS OTHERWISE INDICATED. EXPOSED RACEWAY RUNS SHALL BE PARALLEL WITH SUPPORTING WALLS, BEAMS, AND CEILING AND WITH EACH OTHER CLOSER THAN 6 INCHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND SHALL NOT FLUME.
- RACEWAY ENDS SHALL BE REAMED AFTER THREADING AND AFTER CUTTING AND BE MADE TO BUTT IN THE CENTER OF THE COUPLING. THE USE OF RUNNING THREADS IS PROHIBITED.
- RACEWAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, CABINET, BOX OR FITTINGS, AND SHALL BE MECHANICALLY CONNECTED SO THAT ADEQUATE ELECTRICAL CONTINUITY FROM ONE TO ANOTHER IS OBTAINED. CONDUITS SHALL BE SUPPORTED WITH ONE OR TWO HOLE STAMPED STEEL OR MALLEABLE IRON STRAPS (SUCH AS MANUFACTURED BY RACO) DESIGNED FOR SUPPORTING CONDUIT. THE SIZE OF STRAP SHALL MATCH THE SIZE OF THE CONDUIT. NAILS, PERFORATED STRAP, OR PLUMBERS TAPE SHALL NOT BE USED FOR SUPPORT OF RACEWAY.
- PROVIDE 1/8" POLY PULL CORD IN RACEWAYS WITHOUT CONDUCTORS.
- FOUR 90 DEGREE BENDS MAXIMUM BETWEEN TERMINATIONS OR BOXES.

C. CONDUCTORS

- ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT AND COLOR CODED AS FOLLOWS:

PHASE	208/120	480/277
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	GREEN
GROUND	GREEN	GRAY
- MAKE JOINTS, SPLICES, TAPS AND CONNECTIONS IN CONDUCTORS WITH SOLDERLESS CONNECTORS.

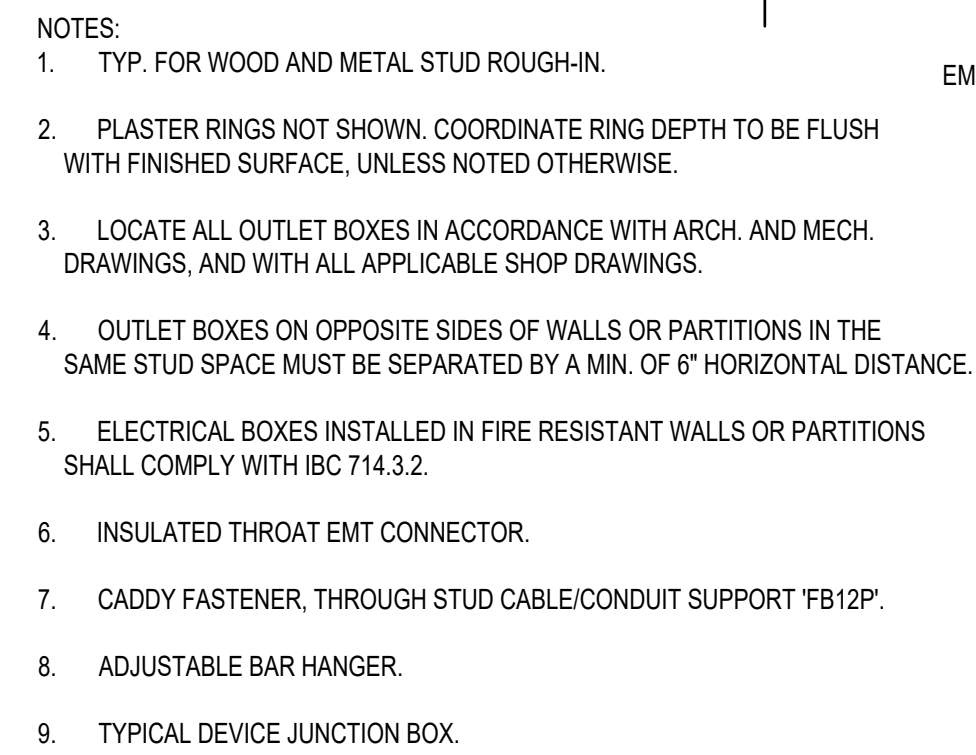
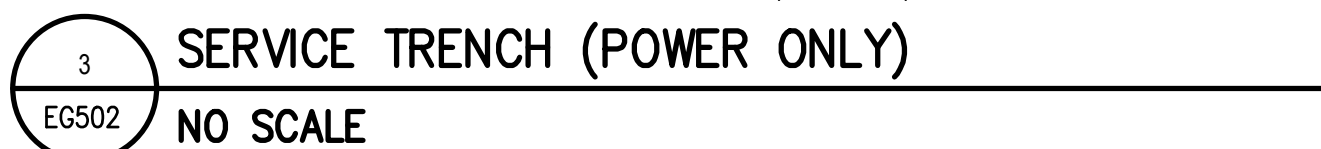
D. JUNCTION AND PULL BOXES

- PULL BOXES SHALL BE PROVIDED WHERE INDICATED AND WHERE NECESSARY TO FACILITATE THE PULLING OF CONDUCTORS. TELEPHONE RACEWAYS SHALL HAVE A MAXIMUM OF TWO 90 DEGREE BENDS BETWEEN TERMINATIONS OR BOXES.

E. GROUNDING

- INSTALL A CODE SIZED GROUNDING CONDUCTOR IN ALL RACEWAYS. DO NOT USE THE RACEWAY FOR GROUNDING. MAKE GOOD CONTACT AT ALL PANEL BOARDS, OUTLET BOXES,

[illegible]



ELECTRICAL DETAILS

Luminaire Schedule General Notes:	
1	Refer to Luminaire description for fixture requirements. Manufacturers model numbers may not be specific or complete. The contractor is responsible to provide complete fixtures as described on this schedule with all mounting hardware and equipment for a complete installation.
2	Refer to the architectural reflected ceiling drawings for exact fixture locations and ceiling types. Verify exact ceiling types and bring to the attention of the architect and electrical engineer any discrepancies prior to bid. Fixtures shall match architectural ceiling types.
3	Provide all fixture support and seismic bracing to secure fixture to structure, walls and ceiling systems. Refer to mounting details for additional requirements. Provide all pole bases as shown on the details.
4	Prior approval shall be required for all manufacturers who are not listed on this schedule. The prior approvals shall be submitted to the electrical engineer (7) working days prior to the bid. Prior approvals received after this time cut-off shall not be reviewed or approved.
5	Submittals for prior approval shall be equivalent to the specified fixtures and reviewed and signed by the principle of the organization that is submitting for approval. Provide complete fixture submittals as listed in the specification. All information that does not apply to the fixture being submitted shall be crossed out. The electrical engineer shall be first in determination if the fixture is equivalent or not.
6	Fixtures that have been reviewed and approved as equivalent to the specified fixtures shall be listed in and addendum prior to bid. Light fixtures without prior approval are rejected and contractor shall base their bid on the approved listed fixtures. A verbal approval will not be given or approved by VBSA at any time.
7	Any additional time required to verify if submitted fixture meets all photometric requirements shall be paid by the agency requesting approval. Photometric point-by-point plans may be required from the agency submitting for approval indicating equivalency.
8	Color temperature for all lamping shall be 4000K unless noted otherwise in the schedule.
9	Verify exact fixture finishes with the architect prior to submittal.
10	Provide minimum 5 year warranty on all light fixtures.
11	LED light fixtures shall meet LM79 and LM80 standards with +50,000 hour L70 lamp life
12	Luminaires shall be listed per NEC 410.6.
13	Luminaires specified for fixtures with integral LEDs are total delivered fixture luminaires.
14	Fixtures identified as emergency on the plans shall be provided with an emergency battery pack or remote inverter with a 1400 lumen output minimum for each emergency fixture.



400 EAST
MAIN STREET
SANTAQUIN, UTAH

DATE:	09/10/2020
AGENCY PROJECT NO:	20294
DESIGN SEQUENCE PROJECT NO:	1708.01
CAD DWG FILE NO:	

DRAWN BY:	AMC
DESIGNED BY:	KMC
DWG TYPE:	
ARCHITECTURAL PHASE:	PERMIT SET

SHEET TITLE
ELECTRICAL SCHEDULES & ONE LINE

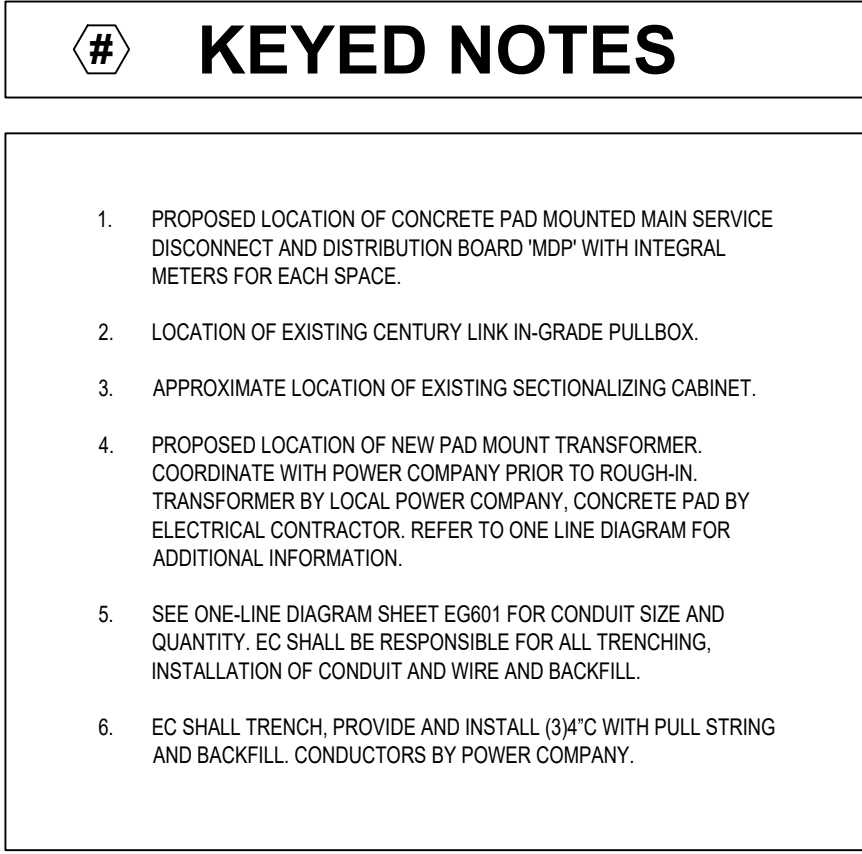
EG601

NAME: TP1		VOLTAGE: 208 / 120		MOUNTING: FLUSH		MAINS: BREAKER		DIMS. 20" W 5.75" D 68" H		SPECIAL EQUIPMENT X GROUND BUS SUB-FEED BREAKER SUB-FEED LUGS NEMA 3R SURGE PROTECTOR					
TYPE: NQ		PH 3 WIRES 4		FEED: BOTTOM		400 AMPS									
TENANT SPACE 1		AIC 14K AMPS						42 SPACES							
LOCATION															
CKT #	CIRCUIT DESCRIPTION	CODE	BRKR P	WIRE SIZE	VA LOAD	PHASE VA			VA LOAD	WIRE SIZE	BRKR P	CODE	CIRCUIT DESCRIPTION	CKT #	DF
1	EW-H1 WATER HEATER		2	25	10	2049	5409		3360	12	20	3	RTU-4	2	M
3			-	-	-	2049	5409		3360	-	-	-		4	M
5	LIGHTS		1	20	12	140		3500	3360	-	-	-		6	M
7	SPARE		1	20			0			20	1		SPARE	8	
9	SPARE		1	20			0			20	1		SPARE	10	
11	SPARE		1	20				0		20	1		SPARE	12	
13	SPARE		1	20						20	1		SPARE	14	
15	SPARE		1	20			0			20	1		SPARE	16	
17	SPARE		1	20				0		20	1		SPARE	18	
19	SPARE		1	20			0			20	1		SPARE	20	
21	SPARE		1	20				0		20	1		SPARE	22	
23	SPARE		1	20						20	1		SPARE	24	
25	SPARE		1	20						20	1		SPARE	26	
27	SPARE		1	20			0			20	1		SPARE	28	
29	SPARE		1	20					0	20	1		SPARE	30	
31	SPARE		1	20			0			20	1		SPARE	32	
33	SPARE		1	20				0		20	1		SPARE	34	
35	SPARE		1	20					0	20	1		SPARE	36	
37	SPARE		1	20			0			20	1		SPARE	38	
39	SPARE		1	20				0		20	1		SPARE	40	
41	SPARE		1	20					0	20	1		SPARE	42	
DIVERSITY FACTORS (DF):															
C=CONTINUOUS															
M=MOTOR															
L=LARGEST MOTOR															
O=OTHER															
R=RECEPTACLES															
K=KITCHEN EQUIPMENT															
CONNECTED VA 5409 5409 3500 14.3 KVA															
CONNECTED AMPS 45 45 29 39.743															
DIVERSIFIED VA 10 KVA															
DIVERSIFIED AMPS 27.974															
1= SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE															
2= SHUNT-TRIP BREAKER															
3= GFCI BREAKER															
4= PROVIDE LOCK OFF DEVICE															
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75 °C															
NOTES:															

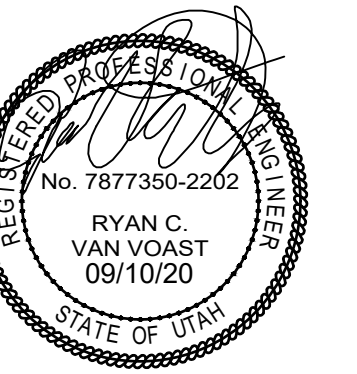
NAME: HP		VOLTAGE: 208 / 120		MOUNTING: FLUSH		MAINS: LUGS ONLY		DIMS. 20" W 5.75" D 68" H		SPECIAL EQUIPMENT X GROUND BUS SUB-FEED BREAKER SUB-FEED LUGS NEMA 3R SURGE PROTECTOR	
TYPE: NQ		PH 3 WIRES 4		FEED: FLUSH		100 AMPS		42 SPACES			
FIRE RISER ROOM		AIC 14K AMPS		BRKR AMP SIZE		VA LOAD		WIRE AMP P		CODE	
LOCATION											
CKT #	CIRCUIT DESCRIPTION	CODE	BRKR AMP SIZE	VA LOAD	PHASE VA	VA LOAD	WIRE AMP P	CODE	CIRCUIT DESCRIPTION	CKT #	DF
1	SPARE		1 0		A B C	516	12 20 1		EXTERIOR LIGHTS	2	C
3	PARKING LOT LIGHTING		1 20 8	306		806	500 12 20 1	3	HEAT TRACE	4	C
5	TTB RECEPTACLE		1 20 12	360			860 500 12 20 1	3	HEAT TRACE	6	C
7	SPARE		1 20		0			0 1	SPARE	8	
9	SPARE		1 20			360	360 12 20 1		DATA RECEPTACLE	10	R
11	SPARE		1 20			200	200 12 20 1		PHOTOCELL	12	R
13	RR RECEPTACLE		1 20 12	180	720		540 12 20 1		ROOFTOP RECEPTACLE	14	R
15	RR LIGHTS		1 20 12	20		20		20 1	SPARE	16	M
17	SPARE		1 20			0		20 1	SPARE	18	M
19	SPARE		1 20		0			20 1	SPARE	20	M
21	SPARE		1 20			2400	2400 12 20 2		EH-1 HEATER	22	C
23	FIRE ALARM FLOW BELL		1 20 12	100		100		20 1	FACP	24	C
25	SPARE		1 20		100		100 12 20 1		DUCT DETECTOR RELAY	26	C
27	SPARE		1 20		100		100 12 20 1		DUCT DETECTOR RELAY	28	C
29	SPARE		1 20			0		20 1	SPARE	30	
31	SPARE		1 20			0		20 1	SPARE	32	
33	SPARE		1 20		0			20 1	SPARE	34	
35	SPARE		1 20			0		20 1	SPARE	36	
37	SPARE		1 20		0			20 1	SPARE	38	
39	SPARE		1 20			0		20 1	SPARE	40	
41	SPARE		1 20			0		20 1	SPARE	42	
DIVERSITY FACTORS (DF):											
C=CONTINUOUS											
M=MOTOR											
L=LARGEST MOTOR											
O=OTHER											
R=RECEPTACLES											
K=KITCHEN EQUIPMENT											
NOTES:											
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C											

NAME: TP2		VOLTAGE: 208 / 120		MOUNTING: FLUSH		MAINS: BREAKER		DIMS. 20" W 5.75" D 68" H		SPECIAL EQUIPMENT X GROUND BUS SUB-FEED BREAKER SUB-FEED LUGS NEMA 3R SURGE PROTECTOR								
TYPE: NQ		PH 3 WIRES 4		FEED: BOTTOM		400 AMPS		42 SPACES										
TENANT SPACE 2		AIC 14K AMPS																
LOCATION																		
DF	CKT #	CIRCUIT DESCRIPTION	CODE	P	BRKR AMP	WIRE SIZE	VA LOAD	A	B	C	VA LOAD	WIRE SIZE	BRKR AMP	P	CODE	CIRCUIT DESCRIPTION	CKT #	DF
M	1	RTU-2	-	-	3 50	8	4800	5140								LIGHTS	2	C
M	3	-	-	-	-	-	4800		4800			20 1				SPARE	4	
M	5	-	-	-	-	-	4800			4800		20 1				SPARE	6	
M	7	RTU-3	-	-	3 50	8	4800	4800				20 1				SPARE	8	
M	9	-	-	-	-	-	4800		4800			20 1				SPARE	10	
M	11	-	-	-	-	-	4800			4800		20 1				SPARE	12	
	13	SPARE			1 20			0				20 1				SPARE	14	
	15	SPARE			1 20				0			20 1				SPARE	16	
	17	SPARE			1 20					0		20 1				SPARE	18	
	19	SPARE			1 20			0				20 1				SPARE	20	
	21	SPARE			1 20				0			20 1				SPARE	22	
	23	SPARE			1 20					0		20 1				SPARE	24	
	25	SPARE			1 20			0				20 1				SPARE	26	
	27	SPARE			1 20				0			20 1				SPARE	28	
	29	SPARE			1 20					0		20 1				SPARE	30	
	31	SPARE			1 20						0	20 1				SPARE	32	
	33	SPARE			1 20				0			20 1				SPARE	34	
	35	SPARE			1 20					0		20 1				SPARE	36	
	37	SPARE			1 20			0				20 1				SPARE	38	
	39	SPARE			1 20						0	20 1				SPARE	40	
	41	SPARE			1 20							20 1				SPARE	42	
DIVERSITY FACTORS (DF):																		
C-CONTINUOUS																		
M-MOTOR																		
L-LARGEST MOTOR																		
O-OTHER																		
R-RECEPTACLES																		
K-KITCHEN EQUIPMENT																		
NOTES:																		
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75°C.																		

NAME: TP4		VOLTAGE: 208 / 120		MOUNTING: FLUSH		MAINS: BREAKER		DIMS. 20" W 5.75" D 68" H		SPECIAL EQUIPMENT X GROUND BUS SUB-FEED BREAKER SUB-FEED LUGS NEMA 3R SURGE PROTECTOR					
TYPE: NQ		PH 3 WIRES 4		FEED: BOTTOM		200 AMPS		42 SPACES							
TENANT SPACE 3		AIC 14K AMPS													
LOCATION															
DF	CKT #	CIRCUIT DESCRIPTION	CODE	P	BRKR AMP	WIRE SIZE	VA LOAD	PHASE VA	VA LOAD	WIRE SIZE	BRKR AMP	CODE	CIRCUIT DESCRIPTION	CKT #	DF
M	1	RTU-1		3	50	8	4800	5004	A B C	204	12	20 1	LIGHTING	2	C
M	3			-	-	-	4800	4800			20 1		SPARE	4	
M	5			-	-	-	4800	4800			20 1		SPARE	6	
	7	SPARE		1	20		0				20 1		SPARE	8	
	9	SPARE		1	20			0			20 1		SPARE	10	
	11	SPARE		1	20			0			20 1		SPARE	12	
	13	SPARE		1	20		0				20 1		SPARE	14	
	15	SPARE		1	20			0			20 1		SPARE	16	
	17	SPARE		1	20				0		20 1		SPARE	18	
	19	SPARE		1	20		0				20 1		SPARE	20	
	21	SPARE		1	20			0			20 1		SPARE	22	
	23	SPARE		1	20				0		20 1		SPARE	24	
	25	SPARE		1	20		0				20 1		SPARE	26	
	27	SPARE		1	20			0			20 1		SPARE	28	
	29	SPARE		1	20				0		20 1		SPARE	30	
	31	SPARE		1	20		0				20 1		SPARE	32	
	33	SPARE		1	20			0			20 1		SPARE	34	
	35	SPARE		1	20				0		20 1		SPARE	36	
	37	SPARE		1	20		0				20 1		SPARE	38	
	39	SPARE		1	20			0			20 1		SPARE	40	
	41	SPARE		1	20				0		20 1		SPARE	42	
DIVERSITY FACTORS (DF):															
C-CONTINUOUS															
M-MOTOR															
L-LARGEST MOTOR															
R-RECEPTACLES															
K-KITCHEN EQUIPMENT															
CONNECTED VA													5004		
CONNECTED AMPS													42		
DIVERSIFIED VA													40		
DIVERSIFIED AMPS													40.678 A		
CODES:													1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE		
													2 = SHUNT-TRIP BREAKER		
													3 = GFCI BREAKER		
													4 = PROVIDE LOCK OFF DEVICE		
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 1% TC															
NOTES:															



design
Sequence
350 SOUTH 200 EAST, #106
SALT LAKE CITY, UTAH 84111
P: 801.596.0691
DESIGNUTAH.COM

**VBFA**

WWW.VBFA.COM

81 East 5600 South
Murray, UT 84107
801.530.3148 T
801.530.3150 F

SANTAQUIN CITY
PAD 'C'

400 EAST
MAIN STREET
SANTAQUIN, UTAH

[illegible]

DATE:	09/10/2020
AGENCY PROJECT NO:	20294
DESIGN SEQUENCE PROJECT NO:	1708.01
CAD DWG FILE NO:	

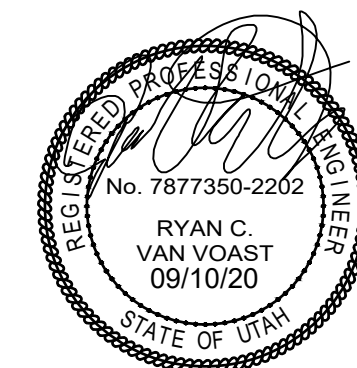
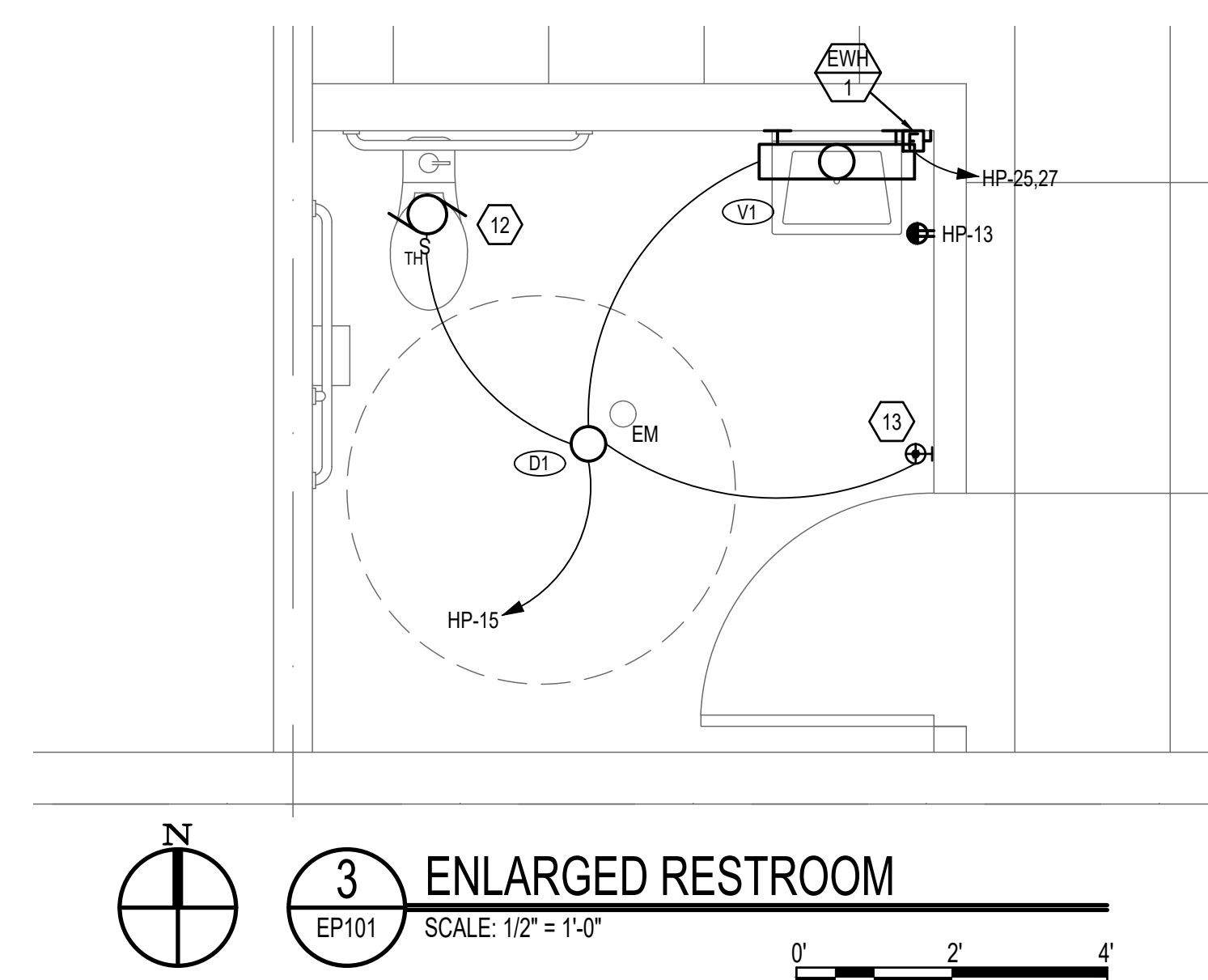
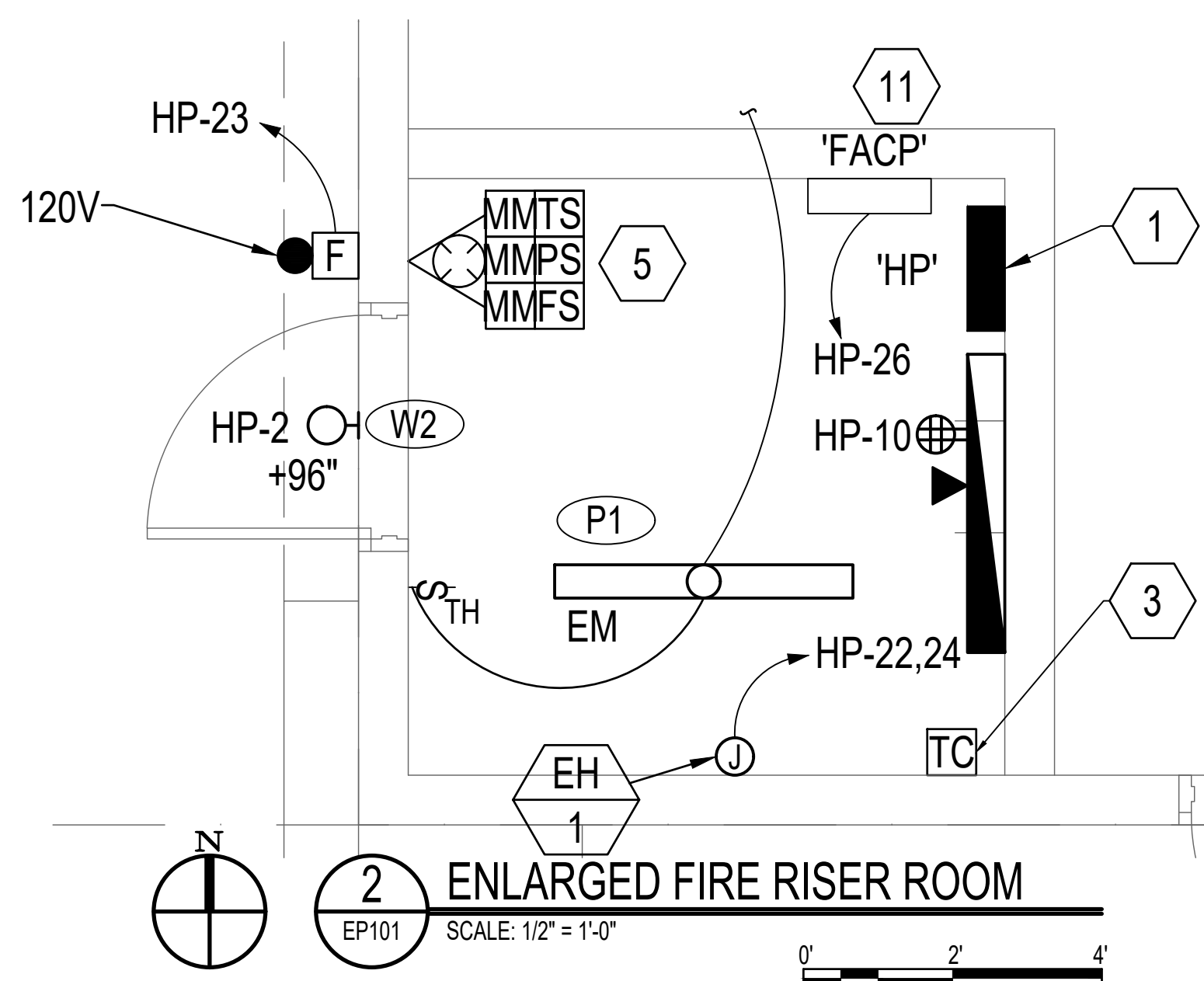
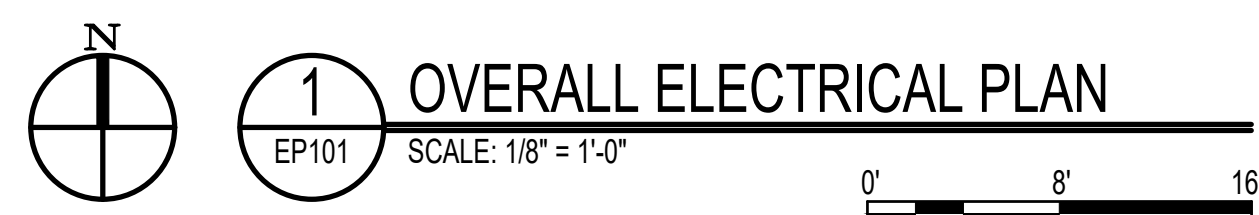
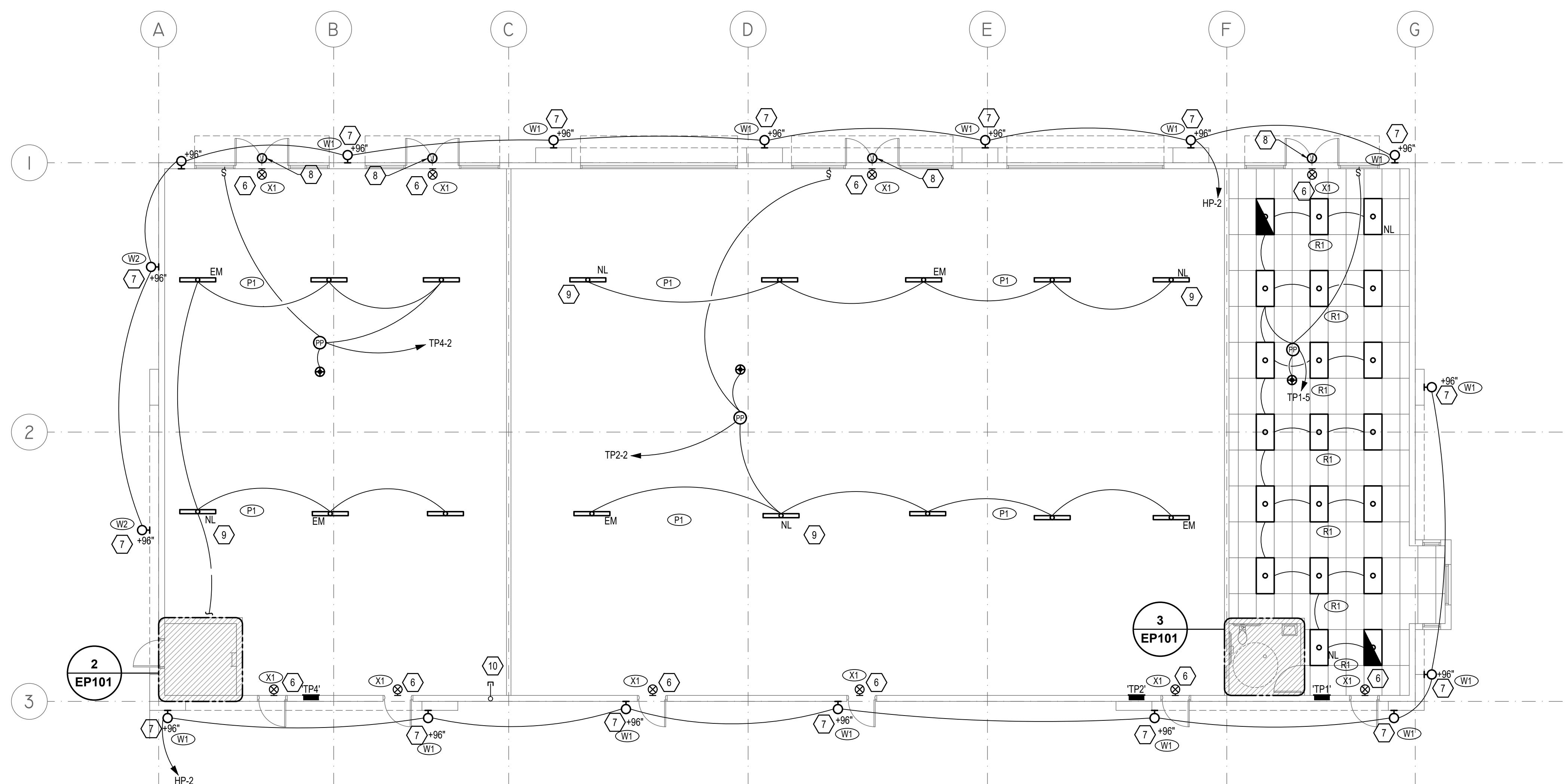
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DESIGNED BY:	KMC
DWG TYPE:	
ARCHITECTURAL PHASE:	PERMIT SET

ELECTRICAL SITE PLAN

ES101

KEYED NOTES

1. PROPOSED LOCATION OF HOUSE PANEL.
2. EC SHALL STUD CONDUIT FROM INDIVIDUAL METER AND BREAKER SECTION INTO EACH SPACE AS SHOWN FOR FUTURE TENANT IMPROVEMENT BUILD-OUT.
3. PROVIDE AND INSTALL A 7-DAY PROGRAMMABLE TIME CLOCK TO CONTROL THE EXTERIOR LIGHTING THROUGH THE PHOTOCELL ON THE ROOF.
4. PROVIDE AND INSTALL A FIRE ALARM FLOW BELL ON EXTERIOR OF BUILDING.
5. EC SHALL COORDINATE WITH MECHANICAL AND FIRE SPRINKLER CONTRACTOR FOR EXACT LOCATION OF FIRE RISER. PROVIDE ALL REQUIRED MOUNTING MODULES, FLOW, TAMPER, AND PRESSURE SWITCHES REQUIRED.
6. PROVIDE AN UNSWITCHED HOT CONDUCTOR TO EXIT SIGN.
7. COORDINATE EXACT HEIGHT OF ALL EXTERIOR LIGHTING WITH ARCHITECT PRIOR TO JOBSH.
8. PROVIDE AND INSTALL A J-BOX ON EXTERIOR OF BUILDING FOR FUTURE SIGNAGE WITH (11/4") SIGHT NOTED INTO SPACE.
9. THIS LIGHT SHALL BE WIRED AS NIGHT LIGHT FOR CONSTANT ON.
10. STUB (1/2") INTO SPACE FROM METER LOCATION FOR FUTURE ELECTRICAL SERVICE TO SPACE. CONDUIT SHALL BE STUBBED IN WALL AND EXTEND TO THE CEILING SPACE. STUB CONDUIT OUT 2" FROM WALL ABOVE CEILING. LABEL FOR USE.
11. PROVIDE A BASIC FIRE ALARM CONTROL PANEL TO MONITOR THE FLOW, TAMPER SWITCHES AND DUCT DETECTORS REQUIRED ON PROJECT.
12. RESTROOM EXHAUST FAN: EC SHALL TIE INTO LIGHTING CIRCUIT AND CONTROL.
13. FURNISH AND INSTALL A DUAL ZONE DUAL TECHNOLOGY WALL BOX OCCUPANCY SENSOR TO CONTROL THE LIGHTS AND EXHAUST FAN SEPARATELY. ZONE FOR EXHAUST FAN SHALL HAVE AN ADJUSTABLE 30 MINUTE MAXIMUM TIME DELAY AFTER LIGHTS TURN OFF. TAMPER. THE DELAY FOR FANS TO BE 15 MINUTE MINIMUM TIME DELAYS PER OWNER'S REQUIREMENTS.



181 East 5600 South
Murray, UT 84107
801.530.3148 T
801.530.3150 F

SANTAQUIN CITY
PAD 'C'

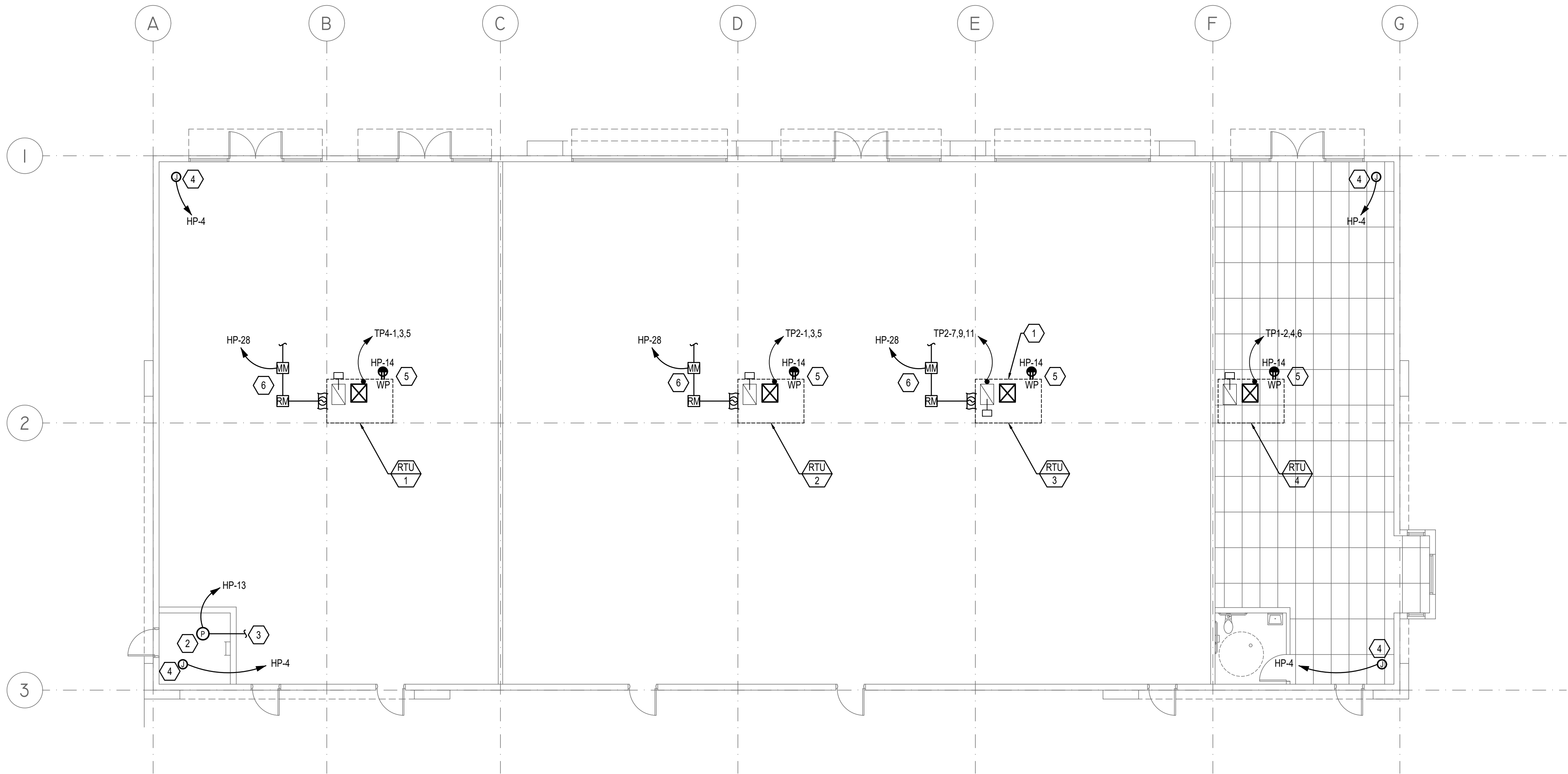
400 EAST
MAIN STREET
SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION
DATE:		09/10/2020
AGENCY PROJECT NO:		20294
DESIGN SEQUENCE PROJECT NO:		1708.01
CAD DWG FILE NO:		
DRAWN BY:	AMC	
DESIGNED BY:	KMC	
DWG TYPE:		
ARCHITECTURAL PHASE:		
		PERMIT SET
SHEET TITLE		

EP101

KEYED NOTES

1. ROOF TOP UNIT FOR FUTURE TENANT. THIS UNIT WILL BE PROVIDED WITH POWER WHEN THE TENANT IMPROVEMENT IS DESIGNED. EC SHALL PROVIDE (1)3/4" FROM RTU FACTORY DISCONNECT AND STUB DOWN INTO SPACE FOR FUTURE WIRING.
2. PROVIDE AND INSTALL A PHOTOCELL ON THE ROOF FOR AUTO ON/OFF OF THE EXTERIOR LIGHTING.
3. TIE INTO TIME CLOCK.
4. PROVIDE AND INSTALL SELF REGULATED HEAT TAPE FOR EACH ROOF DRAIN. RUN TAPE ALL THE WAY TO BOTTOM OF DRAIN AND LOOP BACK UP AT BOTTOM. PROVIDE ALL REQUIRED CONTROL AND SENSORS FOR HEAT TAPE TO TURN ON/OFF BASED ON AMBIENT AIR TEMPERATURE AND/OR MOISTURE DETECTION.
5. GFCI RECEPTACLE PROVIDED WITH RTU UNIT BY MANUFACTURER. EC SHALL CIRCUIT TO HOUSE PANEL CIRCUIT AS INDICATED.
6. DUCT DETECTOR PROVIDED AND INSTALLED BY RTU MANUFACTURER. EC SHALL CONNECT AND PROVIDE RELAY AND MONITOR MODULES AS REQUIRED. PROVIDE CONDUIT AND WIRE TO CONNECT TO FIRE ALARM CONTROL PANEL.

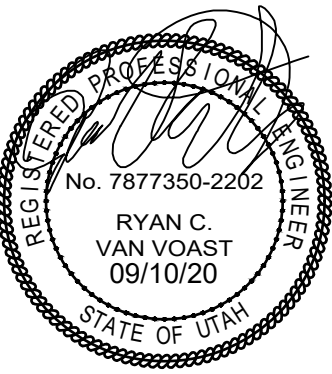


N

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EP102

ELECTRICAL ROOF PLAN
SCALE: 1/4" = 1'-0"

0' 4' 8'



SANTAQUIN CITY
PAD 'C'

400 EAST
MAIN STREET
SANTAQUIN, UTAH

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ELECTRICAL ROOF PLAN