OKLAHOMA
Office of Management
& Enterprise Services

Amendment of Solicitation

Date of Issuance: 01/22/2026 **Solicitation No.** 26-FM-0010

Requisition No. 34500 **Amendment No.** 1

Hour and date specified for receipt of offers is changed: ☒ No ☐ Yes, to: _____ ____ ____ CST

Pursuant to OAC 260:115-7-30(d), this document shall serve as official notice of amendment to the solicitation identified above. Such notice is being provided to all suppliers to which the original solicitation was sent.

Suppliers submitting bids or quotations shall acknowledge receipt of this solicitation amendment prior to the hour and date specified in the solicitation as follows:

Sign and return a copy of this amendment with the solicitation response being submitted; or,

If the supplier has already submitted a response, this acknowledgement must be signed and returned prior to the solicitation deadline. All amendment acknowledgements submitted separately shall have the solicitation number and bid opening date in the subject line of the email.

ISSUED FROM:

Melissa Groom	405-227-5473	mlgroom@odot.org
Contracting Officer	Phone Number	E-Mail Address

RETURN TO: odotbids@odot.ok.gov

Description of Amendment:

a. This is to incorporate the following:

Amendment 1 covers:

Sign-In Sheet – Mandatory Site Visit/Pre-Bid
Plan-holder's List
Geotech Report
Addendum 1-Plan Revisions
Questions and Answers

Interested Contractors should complete Section b and include this form with their responses.

b. All other terms and conditions remain unchanged.

Supplier Company Name (**PRINT**)		Date
Authorized Representative Name (**PRINT**)	Title	Authorized Representative Signature

SOLICITATION – 26-FM-0010 – Stillwater Res/OSU Multi-Purpose
SITE VISIT/PRE-BID MEETING, 01/06/2026
Questions due 01/15/2026 - Responses posted 01/22/2026 - Closes 01/29/2026

NAME	COMPANY	EMAIL	PHONE
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Mitch Richardson	ODOT	mrichardson@odot.org	405-905-6487
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David McKinsey	Piazza Construction	rod@piazza-construction.com	903-463-2384

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NAME	COMPANY	EMAIL	PHONE
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Jason Hale	HD/RediCarpet	jason.hale@redicarpet.com	918-630-8844
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Houston Holman	OMG, LLC	nhoustonholman@gmail.com	720-990-7686
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BRYAN ADSON	NARCOMEY CONSTRUCTION	bryan@narcomey-construction.com	918-292-9648
Cindi Givens	Ross Group	cindi.givens@withrossgroup.com	918 240 3521
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Stillwater Residency/OSU Multi-Purpose Building

Solicitation # 26-FM-0010 / 3450036074

Planholder's List

Company Name	Contact Name	Phone #	Email Address	City/State/Zip	Sent
ePlan	John Noll	573-447-7130	eplan@eplanbidding.com	Columbia, MO 65203	X
W.L. McNatt & Co	Jason Masterson	405-232-7245	jason@wlmcnatt.com	Oklahoma City, OK 73131	X
Clyde Riggs Construction	Garrett Todd	405-721-6001	garrettt@clyderiggs.com		X
Adept Patriot Services, LLC	Emily Snyder	800-871-3165	esnyder@adeptpatriotservices.com		X
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Voy Construction	Andy Obrochta	918.994.1160	andy@voyconstruction.com		X
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Lippert Bros Inc	Caleb Miller	405-478-3580	lippert@lippertbros.com	Oklahoma City, OK 73111	X
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Ascend Commercial Builders	Bobby Edwards	918-381-3545	estimating@ascendok.com		X

Stillwater Residency/OSU Multi-Purpose Building

Solicitation # 26-FM-0010 / 3450036074

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Pillar Contracting	Cole Travis	405-818-3075	ctravis@pillarcontracting.com		X
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Downey Contracting	David Shaw	405-478-5277	dshaw@downeycontracting.com	Oklahoma City, OK 73121	X
A C Owen Construction	Maria Spadaccini	802-922-4218	maria@ac-owen.com	Edmond, OK 73003 Tulsa, OK 74119	X
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Timberlake Construction	Walter Edge Zack Musgrave	918-998-0887	Walter.edge@timberlakeconstruction.com zackm@timberlakeconstruction.com	Tulsa, OK	X
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Treas Construction	James Schreiber		james@treasconstruction.com		X

Stillwater Residency/OSU Multi-Purpose Building

Solicitation # 26-FM-0010 / 3450036074

IronBull Inc	Norm Brockway	903-517-1067	norman@ironbullinc.com	Hugo, OK 74743	X
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Calm Construction	Kayla Stoneking Estimating Dept	405-265-7126	kayla@calmconstruct.com estimating@calmconstruct.com		X
C4L	Kirk Smith	405-314-0802	kirk@c4lokc.com	Oklahoma City, OK	X
Cactus Construction	Lisa Sheldon	405-764-4443	lisa@cactusconstructionokc.com		X
LD Kerns	Ryan Woollard Earl Jacks Ryan Sullivan Chad Nichols	918-299-9797	rwoollard@ldkerns.com ejacks@LDKerns.com rsullivan@LDKerns.com cnichols@LDKerns.com	Jenks, OK 74037	X
MSM Mechanical Sales Midwest	Zach Snow	405-999-0595	zsnow@mechsales.com	OKC, Tulsa	X
Blackridge Research and Consulting	Helan Emagulate	917-993-7467	helan@blackridgeresearch.com	Peoria, IL 61615	X

CEC®

TRANSMITTAL LETTER

October 7, 2024

RE: ODOT Training Center
W. Tyler Ave & N Walnut St, Stillwater, OK

CEC Corporation appreciated the opportunity to provide geotechnical engineering services for the project located in Stillwater, Oklahoma. We have included the geotechnical report which includes the results of the field exploration and recommendations. If you have any additional questions, feel free to contact me at brett.cowan@connectcec.com or 918-237-0666. We enjoyed working with you and look forward to continuing to provide services for future projects utilizing our in-house services and trusted partners.

Sincerely,

Brett Cowan, P.E.
CEI Geotechnical Lead

Enclosure: Geotechnical Report

CEC Corporation
4555 W. Memorial Rd
Oklahoma City, OK 73142
Phone: 405.753.4200 | Fax: 405.260.9524
www.connectcec.com

GEOTECHNICAL ENGINEERING REPORT

ODOT TRAINING CENTER
W TYLER AVE & N WALNUT ST
STILLWATER, OKLAHOMA

HGE PROJECT NO. CEC-24-19

HINDERLITER
GEOTECHNICAL ENGINEERING

PREPARED FOR:

CEC CORPORATION
OKLAHOMA CITY

REPORT DATE:

OCTOBER 7, 2024

HINDERLITER
GEOTECHNICAL ENGINEERING

October 7, 2024

CEC // Infrastructure Solutions
4555 W. Memorial Road
Oklahoma City, OK 73142-2013

Attn: Mr. Brett Cowan, P.E.

Re: Geotechnical Engineering Report
ODOT-OSU Training Center
Stillwater, Oklahoma
HGE Project No. CEC-24-19

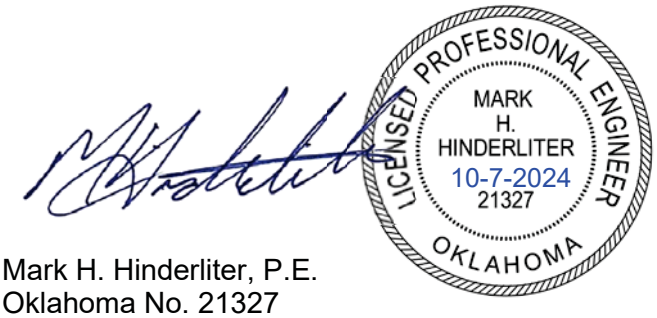
Dear Mr. Cowan:

The Geotechnical Engineering Report has been completed for the proposed construction of an ODOT training Center on the campus of Oklahoma State University in Stillwater, Oklahoma. Our services and fees were discussed in correspondence dated November 16, 2022. Acceptance of the scope, fee and notice to proceed were provided by correspondence dated August 21, 2024.

The purpose of the attached report is to provide a summary of the field investigation methods used and provide recommendations for earthwork and the design and construction of on-grade slabs, foundations and pavements. Test results are provided in the appendices of this report.

Mr. Cowan, please do not hesitate to contact HGE at (405) 942-4090 should you have questions regarding this report.

Respectfully:
HINDERLITER GEOTECHNICAL ENGINEERING, LLC
Certificate of Authorization No. 5528, Expires 30-June-2025



Mark H. Hinderliter, P.E.
Oklahoma No. 21327

P:\HGE\Reports\2024 Geo\October\CEC-24-19 Report

Copies: brett.cowan@connectcec.com; luke.counts@connectcec.com (pdf report & invoice)

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY

The subsurface exploration and geotechnical engineering report are complete for the proposed ODOT-OSU Training Center in Stillwater, Oklahoma. We understand one building with a footprint area of approximately 22,000 square feet will be constructed with associated parking and drive areas. Construction type and foundation loads were unknown at the time of this report. It is assumed the building will be a single-story structure with continuous wall loads will be less than 3 kips per linear foot and isolated column loads will be less than 50 kips. Pavements may be Portland cement concrete, asphaltic cement concrete, or a combination of both.

Three soil test borings were advanced to the auger refusal depths of 20 feet within the proposed footprint of the building. Two additional borings were advanced to depths of 5 feet within the parking and drive areas. The approximate location of each boring is displayed on the boring location diagram and recorded on the boring logs, both attached within Appendix A of this report.

The borings predominantly encountered reddish, soft to very stiff, lean clays and lean to fat clays to depths of 6 feet to 13-1/2 feet where the soils transitioned to very stiff or hard. Red and gray, soft to moderately hard, weathered clay shale was encountered at depths ranging from 14-1/2 feet to 18-1/2 feet resulting in auger refusal at 20 feet. Subsurface geology appears best described as belonging to the Wellington-Admire Unit (Pwa).

The borings were monitored for the presence of groundwater while drilling and immediately after boring completion. Groundwater was not encountered within the borings at these times. The borings were backfilled or plugged per OWRB requirements immediately after completion.

Shallow footings or drilled piers can be used to support the proposed building. On-grade floor slabs can be used with either option; however, due to highly expansive subgrade soils, a thickness of low volume change soil will be required for slab support. Aggregate base could be used for pavement support. Stabilization of the subgrade soils using calcium-based admixtures is not recommended due to the elevated soluble sulfate content of one sample. Specific geotechnical recommendations concerning earthwork and the design and construction of on-grade floor slabs and foundations are presented subsequently in this report.

2.0 PROJECT DESCRIPTION

The proposed ODOT-OSU Training Center will be located northwest of the intersection of W Tyler Ave and N Walnut St in Stillwater, Oklahoma. We understand one building with a footprint area of approximately 22,000 square feet will be constructed with associated parking and drive areas. Construction type and foundation loads were unknown at the time of this report. It is assumed the building will be a single-story structure with continuous wall loads less than 3 kips per linear foot and isolated column loads less than 50 kips. Pavements may be Portland cement concrete, asphaltic cement concrete, or a combination of both.

3.0 SITE EXPLORATION

3.1 Boring Layout & Elevations

Three soil test borings were advanced to the auger refusal depths of 20 feet within the proposed footprint of the building. Two additional borings were advanced to depths of 5 feet within the parking and drive areas. The approximate location of each boring is displayed on the boring location diagram and recorded on the boring logs, both attached within Appendix A of this report.

Elevations at the boring locations were determined using a common surveyor's level and grade rod. The top nut of the existing fire hydrant, located approximately as displayed on the boring location diagram, was used as an elevation benchmark. The relative elevation assigned to the benchmark was 100 feet. Based on this benchmark, elevations at the boring locations ranged from 104.4 feet to 107.8 feet.

Boring locations and elevations should be considered only roughly accurate and not survey quality. Borings are often offset in the field by drill operators to locations accessible to the drill rig or to avoid utilities. Significant offsets are typically noted on the boring location diagram.

3.2 Subsurface Investigation

A truck-mounted, CME-45 rotary drill rig outfitted with 6-inch solid augers was used to advance the boreholes. Representative soil samples were obtained using the split-barrel sampling procedure, generally as detailed in ASTM D 1586. ASTM D 1586 is commonly referred to as the Standard Penetration Test (SPT).

The split-barrel sampling process requires a two-piece sampling tube be used to obtain soil samples. A two-inch outside diameter sampling tube is hammered into the bottom of the boring with a 140-

pound weight falling 30 inches. The number of blows required to advance the sampling tube the last 12 inches, or less, of an 18-inch sampling interval is recorded as the SPT resistance value, N. The in-situ relative density of granular soils, consistency of cohesive soils, and the hardness of weathered bedrock can be estimated from the N value. The N values recorded for each test are displayed on the attached boring logs adjacent to their relative sampling depths.

An automatic drive hammer was used to advance the split-barrel sampler. A greater mechanical efficiency is achieved using an automatic drive hammer when compared to a conventional safety drive hammer operated with a cathead and rope. The effect of this higher efficiency on the N values has been considered in our interpretation and analysis of the subsurface information provided with this report.

The drill crew prepared field boring logs as part of the subsurface exploration operations. The split-barrel samples were packaged in plastic bags to reduce moisture loss, labeled for identification and transported to our laboratory for further evaluation. Appendix A of this report contains the final boring logs that represent modifications based on the engineer's observations.

The boring was backfilled or grouted per OWRB requirements after the drilling operations were completed. Groundwater level measurements are included in Section 5.3 of this report.

4.0 LABORATORY EVALUATION

As part of the geotechnical investigation, soil samples obtained from the borings were evaluated for moisture content. Selected samples were evaluated for liquid and plastic limits, and grain size. These test results provide the information required to classify the soils and help to determine their engineering properties. Two samples were evaluated for soluble sulfate content. The engineer reviewed all soil descriptions and made modifications based on the materials plasticity, texture, and color along with the laboratory test results.

The laboratory test results and group symbol from the Unified Soil Classification System are displayed on the boring logs included in Appendix A of this report and on the laboratory report sheets located in Appendix B. The following sections provide brief information about some of the tests performed.

4.1 In-Situ Moisture Content

The in-situ moisture content of soil samples was determined in the laboratory in general accordance with specification ASTM D 2216. The results of these tests have been provided in the appropriate

column of the boring log. The moisture content is expressed as a percentage and is the ratio of the weight of water in a given amount of soil to the weight of solid particles.

4.2 Liquid & Plastic Limits

The Liquid Limit (LL) and Plastic Limit (PL) of selected soil samples were determined in the laboratory in general accordance with ASTM D 4318. The Liquid Limit (LL) of a soil is the water content at which the soil passes from a liquid state to a plastic state. The Plastic Limit (PL) of a soil is the water content at which the soil passes from a plastic state to a semi-solid state. The Plasticity Index (PI) is the difference between the Liquid Limit and the Plastic Limit (PI = LL – PL). There is a correlation between these limits and experimental shrink / swell data. The results of these tests have been provided in the appropriate column of the boring log.

4.3 Sieve Analysis Test

The amount of material passing the No. 4, No. 10, No. 40 and No. 200 U.S. Standard Sieves was determined in the laboratory in general accordance with ASTM D 1140. Determination of the material grading, combined with the LL, PL and PI provide the information needed to classify the soil according to the Unified Soil Classification System (USCS). The resultant percentage of material passing each sieve has been provided in the appropriate column of the boring log.

4.4 Total Soluble Sulfates

The total soluble sulfate content of one soil sample was determined in general accordance with test method OHD L-49. The results are used to determine whether chemical stabilization of the tested soil is appropriate. Soils with elevated sulfate levels can exhibit excessive heaving when exposed to calcium-based admixtures and excess moisture.

5.0 FINDINGS & RECOMMENDATIONS

Highly plastic clay soils are present at this site. Recommendations are made herein to mitigate damage that could occur to floor slabs, foundations and pavements due to shrinking and swelling of the clay soils as changes in moisture content occur. However, even when these precautions are taken damage could still occur due to excessive pressures placed on structures by swelling soils. Additionally, vegetation with a high demand for water should not be planted close to any structure due to the potential for shrinkage of the highly plastic clays as the water demand of the vegetation increases.

Shallow footings or drilled piers can be used to support the proposed building. On-grade floor slabs can be used with either option; however, due to highly expansive subgrade soils, a thickness of low volume change soil will be required for slab support. Aggregate base could be used for pavement support. Stabilization of the subgrade soils using calcium-based admixtures is not recommended due to the elevated soluble sulfate content of one sample. Specific geotechnical recommendations concerning earthwork and the design and construction of on-grade floor slabs and foundations are presented subsequently in this report.

5.1 Site Conditions

The proposed ODOT-OSU Training Center will be located northwest of the intersection of W Tyler Ave and N Walnut St in Stillwater, Oklahoma. The site was used for equipment storage at the time of this report and was partially covered with gravel, partly vegetation and was fenced. Surrounding properties appeared to be University related and terrain appeared relatively flat to gently rolling.

5.2 Subsurface Conditions

The borings predominantly encountered reddish, soft to very stiff, lean clays and lean to fat clays to depths of 6 feet to 13-1/2 feet where the soils transitioned to very stiff or hard. Red and gray, soft to moderately hard, weathered clay shale was encountered at depths ranging from 14-1/2 feet to 18-1/2 feet resulting in auger refusal at 20 feet. Subsurface geology appears best described as belonging to the Wellington-Admire Unit (Pwa).

Based on published reports[1], the Wellington-Admire Unit consists of shales, sandstone, limestone and siltstone. Most of the unit is shale, which for the most part is reddish colored and clayey to silty in texture. The total thickness of the unit is difficult to ascertain but is known to be several hundred feet. In the central part of Division Four, the shales form gently rolling hills.

In accordance with publication ASCE7-10 Chapter 20, a Seismic Site Class C should be used for foundation design at this site. This site class is based on Standard Penetration Tests conducted within 20 feet of the ground surface, the reported depth of the geologic unit, and classification of the subgrade soils.

Results of each boring are included on the boring logs in Appendix A of this report. Every attempt is made to accurately reflect the depths of material change; however, stratification boundaries should be

[1] 1967; Research & Development Division; Oklahoma Highway Department; Engineering Classification of Geologic Materials – Division Four

considered approximate. Specific recommendations concerning on-grade floor slabs foundations and pavements are presented in the following sections of this report.

5.3 Groundwater Conditions

The borings were monitored for the presence of groundwater while drilling and immediately after boring completion. Groundwater was not encountered within the borings at these times. The borings were backfilled or plugged per OWRB requirements immediately after completion.

To obtain more accurate groundwater level information, long-term observations in a well or piezometer that is sealed from the influence of surface water would be needed. Groundwater level fluctuations and / or perched water conditions may occur due to seasonal variations in the amount of rainfall and other factors such as drainage characteristics. The possibility of groundwater level fluctuations should be considered during the preparation of construction plans.

5.4 General Site Development

Site preparation for the proposed buildings and pavements should include removing the existing vegetation and topsoil to a depth of at least 6 inches and any existing gravel fill materials. Any rocks greater than 3 inches and any matted vegetation should be removed. Other unsuitable materials encountered during construction operations should be removed and replaced with suitable soil.

After removing the recommended deleterious materials and making any required cuts, but before placing concrete or fill, we recommend the site be proof-rolled to identify any soft or loose areas. Proof-rolling operations should be observed by qualified geotechnical personnel to identify soft or loose areas to be removed or stabilized, and to verify that all unsuitable materials have been removed. Proof-rolling should be performed using a loaded, tandem-axle dump truck having a minimum gross weight of 25 tons, or other equipment having a similar subgrade loading. Proof-rolling should be performed slowly and in overlapping passes, repeating the process in a perpendicular direction. Any areas of rutting or pumping should be removed and replaced with moisture-conditioned, low volume change soil (defined in section 5.5 of this report).

The soils encountered on site are susceptible to becoming soft or loose with the addition of moisture. During periods of rain, the site may become unworkable and difficult to travel across. If wet subgrade conditions are encountered during construction, we recommend reducing the soil's moisture content by aeration. The use of calcium-based admixtures (lime, fly ash, cement kiln dust, etc.) to dry the soil is not recommended due to elevated soluble sulfate levels. Soils with elevated sulfate levels can exhibit excessive heaving when exposed to calcium-based admixtures and excess moisture.

5.5 On-Grade Slab Subgrade

One factor affecting on-grade slab support is the shrink-swell potential of the subgrade materials due to seasonal variations in the subgrade moisture content. Typically, some increase in moisture content will occur as a result of gradual accumulation of capillary moisture after a slab is constructed. The shrink-swell potential of the soil beneath an on-grade slab is dependent on its plasticity, moisture content, density, confining pressure provided by the weight of the slab and the overburden pressure (including the fill required to develop design grade). Higher plasticity and density and lower confining pressure and moisture content result in greater swell potential of the soils.

The existing near surface soils at the boring locations consist of moderately to highly plastic clay soils for which significant volume changes due to variations in subgrade moisture content could occur. Typically, buildings such as the one proposed for this site are designed to tolerate vertical floor slab movements of 1-inch or less. Based on the soils liquid limit, plastic limit and an expected moisture change zone of about 8 feet, we predict a potential vertical rise (PVR) between 1-1/2 inches and 1-3/4 inches. Therefore, the existing subgrade soils are considered to be unsuitable for support of floor slabs. We recommend over-excavating the existing soils to a depth of 36 inches and constructing a low volume change soil support zone at least 36 inches in thickness. The following recommendations are provided to develop this low volume change soil zone beneath the slab.

After performing any required over-excavation, but before placing any fill, the exposed subgrade should be scarified to a minimum depth of 8 inches and compacted to at least 95 percent of its maximum dry density as determined by test method ASTM D 698 (commonly referred to as the standard Proctor) at a moisture content at optimum or above. Any soft or loose areas observed, or over-saturated, rutting or pumping soils observed during the compaction operation should be removed and replaced with moisture-controlled, low volume change soils.

All fill required to develop the 36-inch soil support zone should consist of suitable low volume change (LVC) fill materials. The LVC pad should extend laterally at least one foot outside the slab footprint for every foot of fill placed. Suitable LVC soils are considered to be clean, cohesive materials with a liquid limit less than 40 and a plasticity index between 5 and 18, or cohesion-less materials with at least 25 percent passing the standard No. 200 sieve. All fill should be placed in lifts not exceeding 9 inches in loose thickness and compacted to at least 95 percent of the material's maximum dry density. LVC fill soils should be placed at a moisture content within two percent of optimum (test method ASTM D 698).

For direct slab support, at least 4 inches of crushed aggregate, such as ODOT Type A Aggregate Base, should be placed and compacted. Aggregate base should be compacted to at least 95 percent of the material's maximum dry density, generally at a moisture content within 2 percent of optimum. Sand is not recommended for direct slab support due to the tendency to loosen when unconfined. The aggregate base can be considered a part of the 36-inch low volume change soil zone.

During compaction operations, the exposed subgrade and each lift of compacted fill should be tested for moisture and density and reworked as necessary until the lift is approved by the geotechnical engineer's representative prior to the placement of additional material. We recommend the scarified surface and each lift of fill be tested for density and moisture content at a rate of one test per 2,500 square feet of compacted area with a minimum of two tests per compacted area. In addition, we recommend one test per lift for every 100 linear feet of compacted utility trench backfill.

The ground surface should be sloped away from on-grade slabs on all sides to prevent water collection. Water should not be allowed to pond near the slab during or after construction. The moisture content of the soil pad should be maintained near optimum until the slab is constructed. We recommend the moisture content of the on-grade slab subgrade be evaluated just before concrete for the slab is placed.

If floor slabs will be covered with materials that are impervious to moisture migration, we recommend taking precautions to minimize the potential for floor covering problems relative to moisture emission. These precautions should include the following: Place a heavy-duty vapor retarder immediately below the floor slabs and seal the retarder at all penetration points. All fill materials should be placed *below* the vapor retarder. Concrete for the floor slabs should have a low slump and should be carefully cured due to the retention of mix water at the base of the slab over the vapor retarder. To maximize effectiveness, floor slab concrete should be water-cured for at least 7 days, which will also reduce the potential for slab edge curling. Lastly, after the building is enclosed and the HVAC is operating, slab moisture emission tests should be performed to confirm that vapor emission levels comply with the floor covering manufacturer's specifications.

SUMMARY OF EARTHWORK FOR ON-GRADE SLABS	
Clear & Grub	Vegetation & topsoil to at least 6 inches, all gravel
Over-Excavate	Existing subgrade to a depth of at least 36 inches
Proofroll	Exposed soils at base of over-excavation
Scarify & Recompact	Top 8" at base of over-excavation, compact to 95% MDD at a moisture content at optimum or above
Low Volume Change Fill	36" minimum. Max. lifts 9" loose, compact each lift to 95% MDD within 2% of optimum moisture
Aggregate Base	4" compacted to 95% MDD within 2% of optimum moisture

5.6 Shallow Footing Foundations

Shallow footing foundations could be used to support the proposed building. To provide adequate confinement and protection against frost and shrinking or swelling of the subgrade soils due to moisture changes, footings should bear at a depth of at least 2 feet below the final adjacent subgrade elevation. For the design of foundations bearing at the recommended depth within tested and approved low volume change fill, a net allowable bearing pressure of 2,250 pounds per square foot can be used. This is the pressure at the base of the foundation in excess of the adjacent overburden pressure. A representative of the geotechnical engineer should be retained to evaluate that footings bear on soils suitable for the design bearing pressure prior the placement of concrete.

Continuous formed footings should have a minimum width of at least 16 inches, and isolated column footings should have a minimum width of at least 30 inches. Earth formed trench footings can also be used and should have a minimum width of at least 12 inches.

Care should be taken to prevent wetting or drying of the bearing materials during construction. Any extremely wet or dry material, or any loose or disturbed material in the bottom of the footing excavations, should be removed prior to placing concrete.

Long-term movement is expected to be less than 1-inch for footings bearing within the materials described above and proportioned for the recommended maximum net allowable bearing pressure. Differential movement is not expected to exceed 1/2 of the total value.

5.7 Drilled Pier & Grade Beam Foundations

A drilled pier and grade beam foundation system supported by a combination of end bearing and side resistance within weathered shale could also be used to support the proposed building. Straight-shaft drilled piers should extend into weathered shale encountered below depths of approximately 14-1/2 feet to 18-1/2 feet. If grade beams bear at least 36 inches below adjacent grade, void forms are not required.

For drilled piers penetrating at least 2 pier diameters of 3 feet, whichever is greater, into weathered shale, a maximum net allowable end bearing pressure of 25,000 pounds per square foot can be used for design. This is the pressure at the foundation bearing level in excess of the minimum surrounding overburden pressure. Additional support can be achieved using a side resistance value of 3,000 psf for that portion of the pier that extends more than two pier diameters into weathered shale. A

representative of the geotechnical engineer should be on-site during pier drilling to evaluate that bearing materials suitable for the maximum design bearing pressure are adequately penetrated.

An earth auger could be used to penetrate the overburden soils. However, a rock bit will be required to penetrate shallow shaley clays and weathered shale. Temporary casing is not expected to be required to prevent caving of the subsurface soils encountered at the site. Infiltration of pier excavations by groundwater is not expected to occur, but should be anticipated. The final decision concerning casing of the pier excavations should be made at the time of construction.

Prior to placing concrete, any water deeper than 2 inches and all sloughed material should be removed from the base of the drilled piers. Concrete placed in small shaft pier excavations deeper than 10 feet should be placed through a tremie or with a concrete pump to prevent segregation of the aggregates. In larger shafts this requirement may be waived as long as concrete is placed through the center of the shaft and is not allowed to strike the excavation sides, tie wires or reinforcing steel. Concrete should have a minimum slump of 6 inches and should be vibrated to insure adequate consolidation. In no event should a pier excavation be allowed to remain open for more than 4 hours.

Long-term settlement for straight shaft piers bearing within weathered shale is expected to be less than 1/2-inch provided piers have a minimum diameter of 18 inches. Differential settlement is not expected to exceed one-half of the total settlement value.

5.8 Pavement Thickness & Subgrade Development

Light-duty parking lot pavements are expected to support passenger automobiles only. Drive and parking areas accessible to delivery trucks or refuse collection trucks should be designed as heavy-duty pavements. Based on our experience with similar soils, a Resilient Modulus value of approximately 4,000 psi should be used for the design of pavements at this site.

Elevated soluble sulfate contents were found within one sample. Therefore, aggregate base should be used to support the proposed pavements. Soils with elevated soluble sulfate levels can exhibit excessive heave when exposed to calcium-based admixtures (lime, fly ash, CKD) and moisture.

The following table provides minimum pavement thicknesses for both rigid and flexible pavements.

	Light Duty Pavement	Heavy Duty Pavement
Rigid Pavement	5" Portland Cement Concrete (3500 psi min.) 6" ODOT Type "A" Aggregate Base	7" Portland Cement Concrete (3500 psi min. doweled across joints) 6" ODOT Type "A" Aggregate Base
Flexible Pavement	2" Type S4 ACC (PG 64-22 OK) 3" Type S3 ACC (PG 64-22 OK) 6" ODOT Type "A" Aggregate Base	2" Type S4 ACC (PG 64-22 OK) 2" Type S4 ACC (PG 64-22 OK) 3" Type S3 ACC (PG 64-22 OK) 6" ODOT Type "A" Aggregate Base

It is recommended that reinforced concrete pads be constructed in front of and beneath the refuse storage and pick-up area. The dumpster trucks should be parked on rigid Portland cement concrete pavement when the trash receptacles are lifted. The concrete pad should be at least 7 inches thick and fully reinforced.

Before fill is placed, the subgrade should be proof-rolled as recommended in Section 5.4 of this report. Once design grades are developed, 6 inches of ODOT Type "A" Aggregate Base should be placed for direct pavement support. Aggregate base materials should be compacted to at least 98 percent of the materials maximum dry density per test method ASTM D 1557 at a workable moisture content, generally within 2 percent of optimum. A separator fabric or geogrid could be placed between the aggregate base and the subgrade soils to provide long-term separation of the materials.

All fill required to develop final grade lines in the proposed parking and drive areas should consist of low volume change soils that are free of organic matter and debris. Fill should be placed in lifts not exceeding 6 inches and should be compacted to at least 95 percent of the maximum dry density at a moisture content within 2 percent of optimum. Any soft or loose areas observed or over-saturated, rutting or pumping soils observed during compaction operations should be removed and replaced.

During compaction operations, each lift of compacted fill should be tested for moisture and density and reworked as necessary until that surface is approved by the geotechnical engineer's representative prior to the placement of additional lifts. We recommend the aggregate base or stabilized subgrade, and each lift of fill be tested for density and moisture content at a rate of one test per 10,000 square feet of compacted area with a minimum of two tests per compacted area. In

addition, we recommend one test per lift for every 100 linear feet of compacted utility trench backfill. The moisture content of the aggregate base or stabilized soil should be maintained near optimum during construction. We recommend the moisture content be evaluated immediately before pavement is placed.

Minimizing subgrade saturation is an important factor in maintaining subgrade strength. Water allowed to pond on or adjacent to pavements could saturate the subgrade and cause premature pavement deterioration. The pavement and subgrade should be sloped approximately ¼ inch per foot to provide rapid surface drainage, and positive surface drainage should be maintained away from the edge of the paved areas. Design alternatives that would reduce the risk of subgrade saturation and improve long-term pavement performance include placing a separator fabric between the aggregate base and subgrade soils, crowning the pavement subgrade to drain toward the edges, rather than to the center of the pavement areas and installing surface drains next to any areas where surface water could pond.

Maintenance of the pavement will be required to obtain a satisfactory design life. Maintenance should include crack sealing, surface sealing and patching of any deteriorated areas. In addition, thicker pavement sections could be used to reduce the required maintenance and extend the service life of the pavement.

6.0 CONCLUDING REMARKS

Recommendations provided in this report are based on information from discrete borings (generally 4 to 8 inches in diameter) and, in some cases, from an engineer's general surficial observations. All site conditions cannot be detailed based on a limited number of borings and increasing the number of borings so that all site conditions can be defined is generally not practical. Variations in site conditions between boring locations should be expected and, on occasion, revised recommendations will be required. Hinderliter Geotechnical Engineering, LLC (HGE) should be retained to review final plans and specifications so that comments can be provided regarding the implementation of recommendations provided in this report. HGE should also be retained to provide monitoring of site construction.

This report provides recommendations concerning site construction and, while it may provide limited analysis of soil corrosiveness and / or contaminant content, is not an Environmental Site Assessment (ESA). If the Owner is concerned about environmental and / or biological assessment, a separate study specifically focused on environmental issues should be undertaken.

This report has been prepared specifically for the referenced project and for the exclusive use of our Client. Third-party reliance may be granted upon specific written request of the Client. This report

has been prepared using locally specific and generally accepted geotechnical engineering practices based on structural information provided by the Client and information gained from the site. No warranties are implied or granted regarding site recommendations not specifically discussed in this report.

APPENDIX A

SITE VICINITY MAP
BORING LOCATION DIAGRAM
SUBSURFACE FENCE DIAGRAMS
BORING LOGS

SITE VICINITY MAP

HINDERLITER GEOTECHNICAL ENGINEERING

ODOT TRAINING CENTER
TYLER & WALNUT
STILLWATER, OKLAHOMA

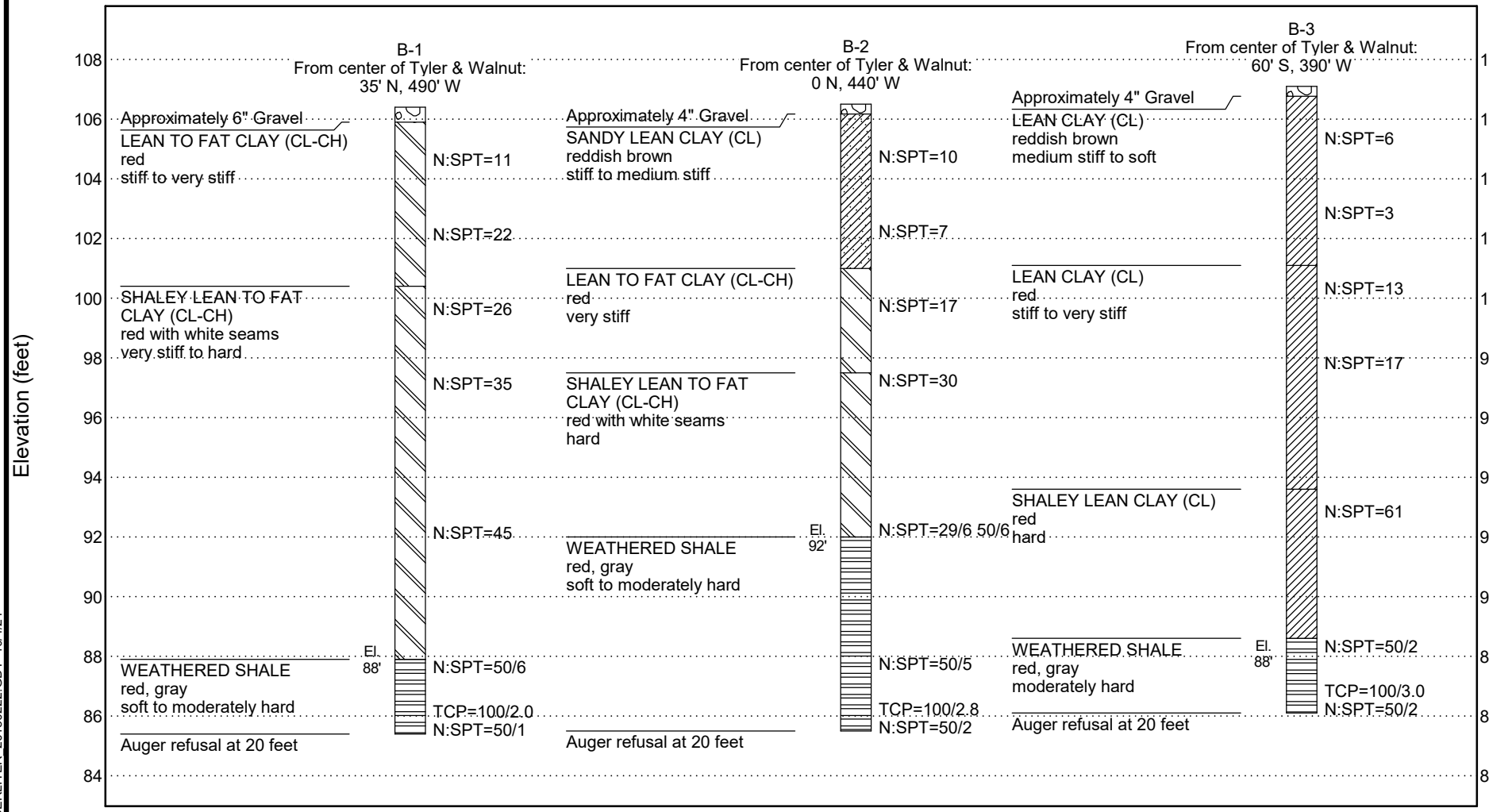
ENGINEER	SCALE
MHH	NOT TO SCALE
DRAWN BY	PROJECT NO.
MHH	CEC-24-19
REVISIONS	DATE
	OCTOBER 2024

BORING LOCATION DIAGRAM

HINDERLITER GEOTECHNICAL ENGINEERING

ODOT TRAINING CENTER
TYLER & WALNUT
STILLWATER, OKLAHOMA

ENGINEER	SCALE
MHH	NOT TO SCALE
DRAWN BY	PROJECT NO.
MHH	CEC-24-19
REVISIONS	DATE
	OCTOBER 2024



Hinderliter Geotechnical Engineering
4071 NW 3rd Street
Oklahoma City, OK 73107
Telephone: (405) 942-4090
Website: HinderliterGeo.com

LEGEND:
N:SPT=Standard Penetration Test
TCP=Texas Cone Penetrometer
R=Recovery
RQD=Rock Quality Designation
UC=Unconfined Compressive Strength

SUBSURFACE FENCE DIAGRAM

Project: ODOT Training Center

Location: Stillwater, Oklahoma

Number: CEC-24-19

US FENCE CEC-24-19.GPJ DT HINDERLITER 20180222.GDT 10/4/24

LOG OF BORING B-1

Hinderliter Geotechnical Engineering
4071 NW 3rd Street
Oklahoma City, OK 73107
Telephone: (405) 942-4090
Website: HinderliterGeo.com

CLIENT: CEC Corporation
PROJECT: ODOT Training Center
LOCATION: Stillwater, Oklahoma
NUMBER: CEC-24-19
DATE(S) DRILLED: 9/9/24

DRILLING METHOD(S):
CME-45 truck-mounted drill. 6" solid flight augers. SPT penetration testing & sampling.

GROUNDWATER INFORMATION:
No groundwater encountered prior to boring termination.

SURFACE ELEVATION: 106.4

SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	MINUS NO. 4 SIEVE (%)	MINUS NO. 10 SIEVE (%)	MINUS NO. 40 SIEVE (%)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													Approximately 6" Gravel
			N = 11	10.3									LEAN TO FAT CLAY (CL-CH) red stiff to very stiff
	5		N = 22	11.2	49	14	35		100	99	96	90.6	
			N = 26	12.3									SHALEY LEAN TO FAT CLAY (CL-CH) red with white seams very stiff to hard
	10		N = 35	12.4									
	15		N = 45	13.5									
			N = 50/6	8.4									WEATHERED SHALE red, gray soft to moderately hard
	20		T = 100/2.0 N = 50/1	7.2									
													Auger refusal at 20 feet

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
Approximate Boring Location:
From center of Tyler & Walnut:
35' N, 490' W

LOG OF BORING B-2

Hinderliter Geotechnical Engineering
4071 NW 3rd Street
Oklahoma City, OK 73107
Telephone: (405) 942-4090
Website: HinderliterGeo.com

CLIENT: CEC Corporation
PROJECT: ODOT Training Center
LOCATION: Stillwater, Oklahoma
NUMBER: CEC-24-19
DATE(S) DRILLED: 9/9/24

DRILLING METHOD(S):
CME-45 truck-mounted drill. 6" solid flight augers. SPT penetration testing & sampling.

GROUNDWATER INFORMATION:
No groundwater encountered prior to boring termination.

SURFACE ELEVATION: 106.5

DEPTH (FT)	SAMPLES (N: BLOWS/FT, P: TONS/SQ FT, T: BLOWS, R: %, RQD: %)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT (LL)	ATTERBERG LIMITS: PLASTIC LIMIT (PL)	ATTERBERG LIMITS: PLASTICITY INDEX (PI)	DRY DENSITY POUNDS/CU.FT	MINUS NO. 4 SIEVE (%)	MINUS NO. 10 SIEVE (%)	MINUS NO. 40 SIEVE (%)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
0											Approximately 4" Gravel
	N = 10	10.4	30	12	18		99	98	95	66.4	SANDY LEAN CLAY (CL) reddish brown stiff to medium stiff
5	N = 7	13.3									
	N = 17	14.8									LEAN TO FAT CLAY (CL-CH) red very stiff
10	N = 30	14.3									SHALEY LEAN TO FAT CLAY (CL-CH) red with white seams hard
	N = 29/6 50/6	13.4									
15											WEATHERED SHALE red, gray soft to moderately hard
	N = 50/5	7.6									
20	T = 100/2.8 N = 50/2	7.5									
											Auger refusal at 20 feet

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
Approximate Boring Location:
From center of Tyler & Walnut:
0 N, 440' W

LOG A GNNL01 CEC-24-19.GPJ DT_HINDERLITER_20180222.GDT 10/7/24

LOG OF BORING B-3

Hinderliter Geotechnical Engineering
4071 NW 3rd Street
Oklahoma City, OK 73107
Telephone: (405) 942-4090
Website: HinderliterGeo.com

CLIENT: CEC Corporation
PROJECT: ODOT Training Center
LOCATION: Stillwater, Oklahoma
NUMBER: CEC-24-19
DATE(S) DRILLED: 9/9/24

DRILLING METHOD(S):
CME-45 truck-mounted drill. 6" solid flight augers. SPT penetration testing & sampling.

GROUNDWATER INFORMATION:
No groundwater encountered prior to boring termination.

SURFACE ELEVATION: 107.1

SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	MINUS NO. 4 SIEVE (%)	MINUS NO. 10 SIEVE (%)	MINUS NO. 40 SIEVE (%)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													Approximately 4" Gravel
			N = 6	18.2									LEAN CLAY (CL) reddish brown medium stiff to soft
	5		N = 3	18.5									
			N = 13	18.1	44	16	28		100	100	98	91.4	LEAN CLAY (CL) red stiff to very stiff
	10		N = 17	15.4									
	15		N = 61	14.0									SHALEY LEAN CLAY (CL) red hard
			N = 50/2	6.1									WEATHERED SHALE red, gray moderately hard
	20		T = 100/3.0 N = 50/2	9.5									
													Auger refusal at 20 feet

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
Approximate Boring Location:
From center of Tyler & Walnut:
60' S, 390' W

LOG OF BORING P-1

Hinderliter Geotechnical Engineering
4071 NW 3rd Street
Oklahoma City, OK 73107
Telephone: (405) 942-4090
Website: HinderliterGeo.com

CLIENT: CEC Corporation
PROJECT: ODOT Training Center
LOCATION: Stillwater, Oklahoma
NUMBER: CEC-24-19

DATE(S) DRILLED: 9/9/24

DRILLING METHOD(S):
CME-45 truck-mounted drill. 6" solid flight augers. SPT penetration testing & sampling.

GROUNDWATER INFORMATION:
No groundwater encountered prior to boring termination.

SURFACE ELEVATION: 107.8

SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	MINUS NO. 4 SIEVE (%)	MINUS NO. 10 SIEVE (%)	MINUS NO. 40 SIEVE (%)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													Approximately 6" Gravel
			N = 19	8.3	28	13	15		100	100	99	62.8	SANDY LEAN CLAY (CL) reddish brown very stiff Soluble Sulfates < 200 ppm
			N = 22	6.6									
	5												Bottom of boring 5 feet

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
Approximate Boring Location:
From center of Tyler & Walnut:
110' S, 580' W

LOG OF BORING P-2

Hinderliter Geotechnical Engineering
4071 NW 3rd Street
Oklahoma City, OK 73107
Telephone: (405) 942-4090
Website: HinderliterGeo.com

CLIENT: CEC Corporation
PROJECT: ODOT Training Center
LOCATION: Stillwater, Oklahoma
NUMBER: CEC-24-19

DATE(S) DRILLED: 9/9/24

DRILLING METHOD(S):
CME-45 truck-mounted drill. 6" solid flight augers. SPT penetration testing & sampling.

GROUNDWATER INFORMATION:
No groundwater encountered prior to boring termination.

SURFACE ELEVATION: 104.4

SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	MINUS NO. 4 SIEVE (%)	MINUS NO. 10 SIEVE (%)	MINUS NO. 40 SIEVE (%)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													Approximately 4" Gravel & Vegetation
			N = 7	12.4									SANDY LEAN CLAY (CL) reddish brown medium stiff
			N = 6	13.7	48	12	36		100	100	98	89.6	LEAN TO FAT CLAY (CL-CH) red, medium stiff Soluble Sulfates = 2,325 ppm
	5												Bottom of boring 5 feet

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
Approximate Boring Location:
From center of Tyler & Walnut:
75' N, 330' W

APPENDIX B

SUMMARY OF LABORATORY RESULTS
SOIL CLASSIFICATION RESULTS

Borehole	Depth	Liquid Limit	Plastic Limit	Plasticity Index	Maximum Size (mm)	%<#200 Sieve	Class-ification	Water Content (%)	Dry Density (pcf)	Satur-ation (%)	Void Ratio
B-1	1.0							10.3			
B-1	3.5	49	14	35	4.75	91	CL-CH	11.2			
B-1	6.0							12.3			
B-1	8.5							12.4			
B-1	13.5							13.5			
B-1	18.5							8.4			
B-1	20.5							7.2			
B-2	1.0	30	12	18	9.5	66	CL	10.4			
B-2	3.5							13.3			
B-2	6.0							14.8			
B-2	8.5							14.3			
B-2	13.5							13.4			
B-2	18.5							7.6			
B-2	20.5							7.5			
B-3	1.0							18.2			
B-3	3.5							18.5			
B-3	6.0	44	16	28	2	91	CL	18.1			
B-3	8.5							15.4			
B-3	13.5							14.0			
B-3	18.5							6.1			
B-3	20.5							9.5			
P-1	1.0	28	13	15	2	63	CL	8.3	Soluble Sulfates < 200 ppm		
P-1	3.5							6.6			
P-2	1.0							12.4			
P-2	3.5	48	12	36	2	90	CL-CH	13.7	Soluble Sulfates = 2,325 ppm		

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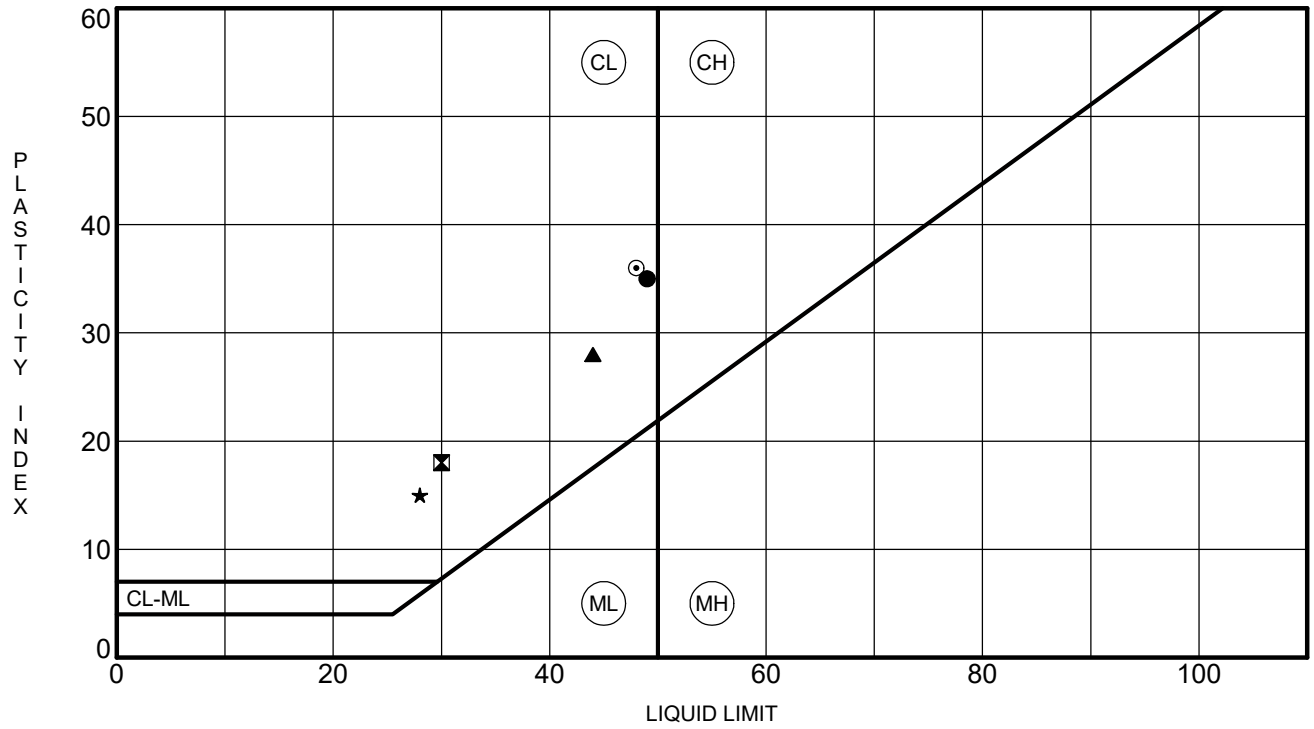
Summary of Laboratory Results

Project: ODOT Training Center

Location: Stillwater, Oklahoma

Number: CEC-24-19



	Specimen Identification		LL	PL	PI	Fines	Classification
●	**B-1**	**3.5**	**49**	**14**	**35**	**91**	**LEAN TO FAT CLAY(CL-CH)**
⊠	**B-2**	**1.0**	**30**	**12**	**18**	**66**	**SANDY LEAN CLAY(CL)**
▲	**B-3**	**6.0**	**44**	**16**	**28**	**91**	**LEAN CLAY(CL)**
★	**P-1**	**1.0**	**28**	**13**	**15**	**63**	**SANDY LEAN CLAY(CL)**
⊙	**P-2**	**3.5**	**48**	**12**	**36**	**90**	**LEAN TO FAT CLAY(CL-CH)**

HGE
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SOIL CLASSIFICATION RESULTS

Project: ODOT Training Center

Location: Stillwater, Oklahoma

Number: CEC-24-19

APPENDIX C

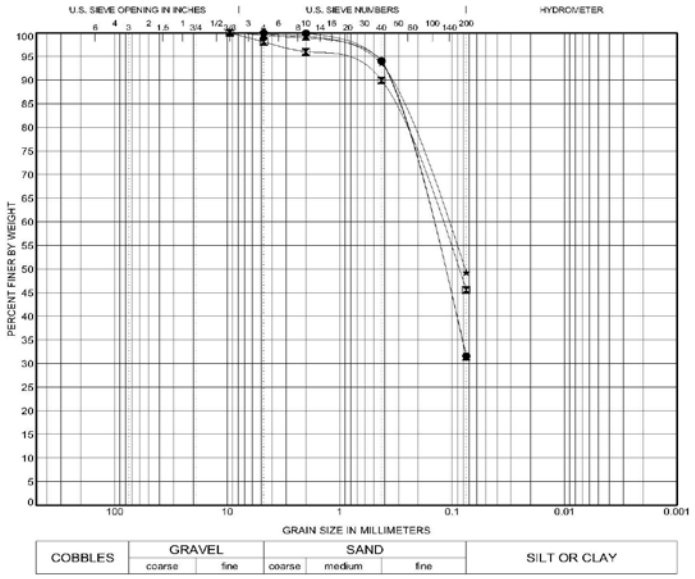
GENERAL NOTES ON SOIL CLASSIFICATION
GENERAL NOTES ON ROCK CLASSIFICATION

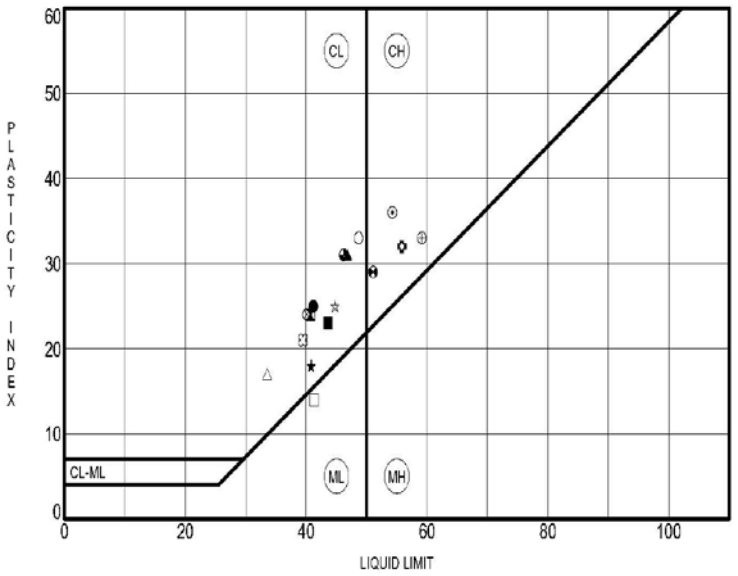
HINDERLITER
GEOTECHNICAL ENGINEERING

GENERAL NOTES ON SOIL CLASSIFICATION

Hinderliter Geotechnical Engineering classifies soils in accordance with the Unified Soil Classification System (USCS). In some cases, the AASHTO Classification System is also used.

USCS soil classifications are derived from soil grain size and material plasticity. Materials with more than 50 percent passing the No. 200 U.S. Sieve (aperture opening = 0.075 mm) are considered to be fine-grained soils (silts or clays). Materials with less than 50 percent passing the No. 200 sieve are considered to be coarse-grained soils (sands, gravels, etc). Coarse-grained soils are classified by the USCS System by plotting the Grain Size in Millimeters vs. Percent Finer by Weight. Depending on the grain size, the materials are classified as cobbles, gravel, sand, or silt / clay. Material plasticity is determined from the Liquid Limit test and the Plastic Limit test. The Liquid Limit (LL) of a soil is the point where, when mixed with water, a pat of soil transitions from a liquid state to a plastic state. The Plastic Limit (PL) is the point where the soil transitions from a plastic state to a solid state. The difference between the LL and PL is known as the Plasticity Index (PI).





Most naturally-occuring materials have some portion of fine-grained and coarse-grained materials. Modifiers are used to describe the relative percentage of minor-occurring materials in the following fashion:

Fine-Grained Soil Modifiers			Coarse-Grained Soil Modifiers	
Modifier	Percentage of Dry Weight		Modifier	Percentage of Dry Weight
Trace	< 15		Trace	< 5
With	15 - 29		With	5-12
Sandy, Gravelly, etc.	> 30		Silty, Clayey, etc.	> 12

The consistency of fine-grained soils and the relative density of coarse-grained soils is generally included on the boring logs as part of the material description. Consistency and relative density are generally defined as follows:

Fine-Grained Soils			Coarse-Grained Soils	
Unconfined Compressive Strength, Qu, psf	Consistency	Standard Penetration Test, N, blows / foot	Standard Penetration Test, N, blows / foot	Relative Density
< 500	Very Soft	< 2	0 - 3	Very Loose
500 - 1000	Soft	2 - 4	4 - 9	Loose
1000 - 2000	Medium	5 - 7	10 - 29	Medium Dense
2000 - 4000	Stiff	8 - 15	30 - 49	Dense
4000 - 8000	Very Stiff	16 - 30	50+	Very Dense
8000+	Hard	30+		

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General Notes on Soil Classification

HINDERLITER GEOTECHNICAL ENGINEERING

GENERAL NOTES ON ROCK CLASSIFICATION

Sedimentary Rock Classification

Sedimentary rock is classified based on material composition, weathering and hardness. Depending on how samples are obtained, a measure of the degree of jointing can also be determined. Sedimentary rock is composed of clay, silt and/or sand sized particles and is often named based on the soil classification of the deposited material, such as sandstone or siltstone. Limestone, chert and shale are also sedimentary rock types.

Shale

In general, the reddish shales of western and central Oklahoma or Texas tend to be highly weathered and soft. They are composed of cemented clays but frequently contain lesser amounts of silt, sand or caliche. In eastern Oklahoma, Texas and Missouri the shales tend to be dark in color, usually gray, less weathered and harder.

Sandstone

Reddish sandstones in western and central Oklahoma and Texas tend to be highly weathered and soft. These sandstones often have relatively high clay or silt contents. Sandstones in eastern Oklahoma, Texas and Missouri tend to be brownish and hard. Sandstones may be described according to degree of cementation; well-cemented, cemented or poorly-cemented.

Limestone

Generally light colored and hard, limestone reacts readily with hydrochloric acid due to its calcium carbonate content.

Sedimentary rock can be evaluated by sampling and testing or by in-situ evaluation methods. Frequently, soft sedimentary rock is evaluated using penetration testing methods such as the split-barrel (SPT) method or through use of a Texas Cone (TC). Hard rock is often cored and evaluated by cutting or scratching, or by unconfined compressive strength measurements. In-situ methods, such as the Pressuremeter, can also be used.

SPT "N" Values (50 blows / 6" or less)	Hardness	Texas Cone "T" Values (100 blows / 6" or less)
50/6", 50/5"	Soft	100/3" or more
50/4", 50/3"	Moderately Hard	100/2", 100/1"
50/2" or less	Hard, often cored	100/1" or less

Sedimentary rock is generally cored in 5-foot or 10-foot increments or runs. Rock Core Recovery (R) is measured and expressed as a percentage of the total run. The Rock Quality Designation (RQD), defined as in-tact pieces of core 4 inches or more in length, is also measured and expressed as a percentage of the total core run.

RQD (%)	Empirical Quality
90-100	Excellent
75-90	Good
50-75	Fair
25-50	Poor
Below 25	Very Poor

Rock Core Hardness:

Soft - Can be broken by hand or carved with a knife.
Moderately Hard - Can be scratched with a penny.
Hard - Can be scratched with a knife.
Very Hard - Cannot be scratched with a knife.

Layering or Bedding:

Fissile - Splits along closely spaced planes 1/16" or less.
Thin Bedded - Beds 2 inches to 2 feet.
Thick Bedded - Beds 2 feet to 4 feet.
Massive - Beds greater than 4 feet.

Joints, Faults or Fractures:

Very Low Jointing - More than 6-1/2 feet between discontinuities.
Low Jointing - 2 feet to 6-1/2 feet.
Medium Jointing - 8 inches to 2 feet.
High Jointing - 2-1/2 inches to 8 inches.
Very High Jointing - Less than 2-1/2 inches.

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ARCHITECTURE

ADDENDUM NO. 1

Project: Oklahoma Department of Transportation – Multipurpose Facility
Location: Stillwater, Oklahoma
Issued Date: 21 January 2026

This Addendum is hereby made a part of the Contract Documents dated September 12th, 2025 on the subject work as though originally included therein. The following amendments, additions, and/or corrections shall govern this work.

This Addendum is in three parts as follows:
Part 1 – Pertaining to the Project Manual
Part 2 – Pertaining to the Drawings
Part 3 – Pertaining to Questions Received and Answers Given
(Verbal responses are not part of this Addendum or the Contract Documents. If responses given in this Addendum do not match your understanding of responses given verbally, notify Studio Architecture promptly.)

PART 1 – PROJECT MANUAL

1.1 Delete the following Sections:
- A. 09 6723 – Resinous Flooring.

1.2 Add the following Sections:
- A. 05 5133 – Metal Ladders.
- B. 06 2000 – Finish Carpentry.
- C. 09 9123 – Interior Painting
- D. FFE Specifications

1.3 Modify the following Sections:
- A. 00 0110 – Table of Contents
  - a. Added Sections 05 05133, 06 2000
  - b. Removed Section 09 6723
- B. Modify Section 08 9200 – Louvered Equipment Enclosure
  - a. Added Covrit Gates & Walls
- C. 09 9123 – Interior Painting
  - a. Added stain and prep work.
- D. Modify Section 13 3424 – Specialty Glazed Façade Structure
  - a. Revised AESS Category

PART 2 – DRAWINGS

2.1 Delete the following Sheets:
- A. None.

2.2 Add the following Sheets:
- A. None.

2.3 Modify the following Sheets:
- A. A2.0 – Revised specialty glazed façade structure.
- B. A3.0 – Added window tag.
- C. A4.0 – Revised window tag.
- D. A7.0 – Revised Detail 2.
- E. A10.0 – Revised Material Schedule and added Interior Signage.

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F. A10.2 – Added Detail 16.
G. 10.4 – Revised Equipment Schedule
H. 11.1 – Added window tag.
I. 11.2 – Revised glazing notes.

PART 3 – QUESTIONS & ANSWERS

3.1 None.

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STRUCTURAL REVISION SUMMARY – Addendum #1

Project: ODOT OSU Multipurpose Facility
Project No.: 221001
Revision Date: January 21, 2026

This summary is provided for the sole purpose of assisting the project team in understanding the revisions to the Contract Documents made by CEC. In no way is this to be considered an exhaustive list. The contractor shall remain responsible for reviewing and conforming to the Contract Documents.

DRAWING REVISION SUMMARY

S2.1 FOUNDATION PLAN
1. Detail 1 – Added additional fin structure at the north and south suspended facades.
2. Detail 1 – Added note callouts for Foundation plan note 11.
3. Detail 1 – Added Foundation Plan note 11.

S3.1 FRAMING ELEVATIONS
1. Detail 1 – Added note to grind welds smooth at Cast Connex connections.
2. Detail 2 – Added note to grind welds smooth at Cast Connex connections.

S3.2 FRAMING ELEVATIONS
1. Detail 5 – Added note to grind welds smooth at Cast Connex connections.
2. Detail 6 – Added note to grind welds smooth at Cast Connex connections.

S4.1 FOUNDATION DETAILS
1. Detail 2 – Revised continuous bars in footing to #5 in lieu of #6's.

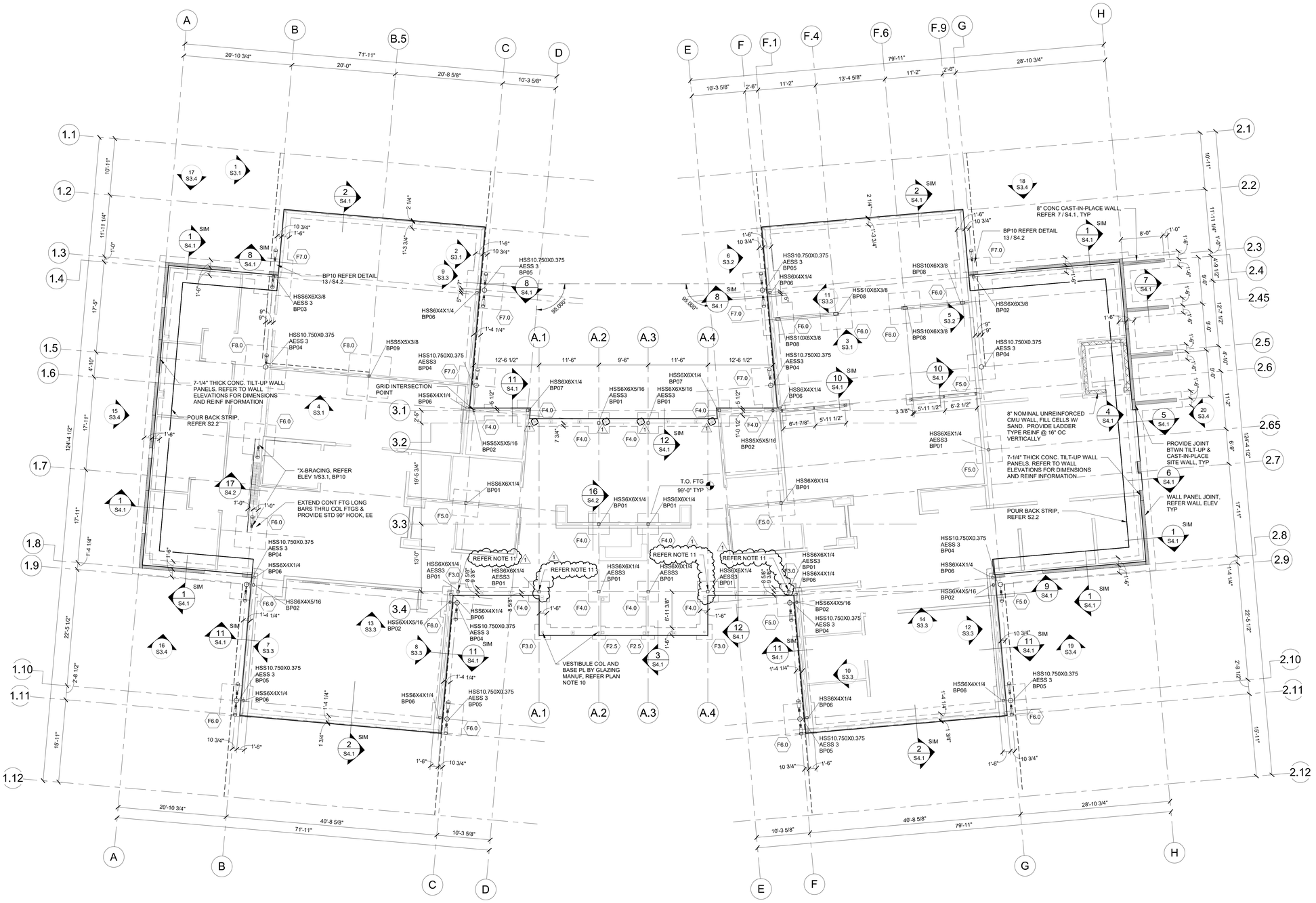
S4.2 FOUNDATION DETAILS
1. Added notes to grind welds smooth at Cast Connex connections.
2. Detail 13 – adjusted length of "U" bars
3. Detail 17 – Added wood nailers at the concrete bench.

S5.1 FRAMING DETAILS
1. Detail 9 – Added to note for the MC6x12 channel to not cut the deck to install the channel.

S5.2 FRAMING DETAILS
1. Detail 11 – Revised height of parapet
2. Detail 18 – Revised height of parapet

S5.3 FRAMING DETAILS
1. Added notes to grind welds smooth at Cast Connex connections.
2. Detail 25 – Added cap plate at bottom of steel hangar

END OF SUMMARY



NORTH

1 FOUNDATION PLAN

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

FOUNDATION PLAN NOTES:

1. STRUCTURAL ELEVATION 100'-0" EQUALS CIVIL FINISHED FLOOR. REFER CIVIL.
2. AT ALL INTERSECTING WALLS AND CONTINUOUS FOOTINGS, REFER 3 / S1.3 FOR THE TYPICAL CORNER BAR DETAIL
3. REFER DETAIL 1 / S1.3 FOR SLAB JOINTING INFORMATION. REFER TO SHEET S2.2 FOR SLAB CONTROL JOINT LAYOUT.
4. REFER DETAIL 2 / S1.3 FOR PIPING PENETRATION THROUGH CONTINUOUS FOOTINGS.
5. REFER TO THE GEOTECHNICAL REPORT AND GENERAL NOTES FOR SUBGRADE PREPARATION INFORMATION.
6. INSTALL VAPOR BARRIER PER MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
7. LOCATION OF ALL IN-SLAB ELECTRICAL SHALL BE COORDINATED PRIOR TO PLACING SLAB-ON-GRADE. SLAB SHALL NOT BE CUT TO INSTALL CONDUIT.
8. REFER ARCH'L FOR PERIMETER INSULATION INFORMATION IF ANY.
9. REFER TO THE PLAN FOR BEAMS AND COLUMNS NOTED TO BE PROVIDED AS AESS. REFER TO SPECIFICATION SECTION 051213. COORDINATE WITH ARCHITECTURAL FOR PAINT COLOR OF EXPOSED FRAMING.
10. THE FRAMING FOR THE GLASS VESTIBULE SHALL BE PROVIDED BY THE GLAZING MANUFACTURER. COORDINATE THE FINAL LOCATIONS OF THE VESTIBULE GLAZING AND THE SUPPORTING STRUCTURE WITH THE NOTED FOUNDATIONS AT THE RESPECTIVE STRUCTURE.
11. AT THE NOTED COLUMNS, IT IS ACCEPTABLE TO BRACE THE SUSPENDED CURTAINWALL SYSTEM TO THE COLUMN WITH STEEL BRACKETS. THE BRACKET SHALL BE DESIGNED AND PROVIDED BY THE GLAZING MANUFACTURER.

SPREAD FOOTING SCHEDULE

MARK	SIZE	FTG. REINF.	REMARKS	COUNT
F2.5	2'-6"x2'-6"x2'-0"	(3) #5 U-SHAPED STIRRUPS EA WAY T&B		2
F3.0	3'-0"x3'-0"x2'-0"	(3) #5 U-SHAPED STIRRUPS EA WAY T&B		4
F4.0	4'-0"x4'-0"x2'-0"	(5) #5 U-SHAPED STIRRUPS EA WAY T&B		12
F5.0	5'-0"x5'-0"x2'-0"	(6) #5 U-SHAPED STIRRUPS EA WAY T&B		6
F6.0	6'-0"x6'-0"x2'-0"	(7) #6 U-SHAPED STIRRUPS EA WAY T&B		12
F7.0	7'-0"x7'-0"x2'-0"	(8) #6 U-SHAPED STIRRUPS EA WAY T&B		6
F8.0	8'-0"x8'-0"x2'-0"	(9) #6 U-SHAPED STIRRUPS EA WAY T&B		2

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OKLAHOMA Transportation

PROFESSIONAL ENGINEER
JOHN SCHAEFER
01-21-2026
33631
OKLAHOMA

REVISION HISTORY

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	01/21/2026

CONSTRUCTION DOCUMENTS	
SUBMITTAL:	
DATE:	09/12/2025
PROJECT NO.	221001
DESIGNED BY:	JS
DRAWN BY:	NB
REVIEWED BY:	JS
SCALE:	AS INDICATED

ODOT OSU MULTIPUPOSE FACILITY

STILLWATER, OK

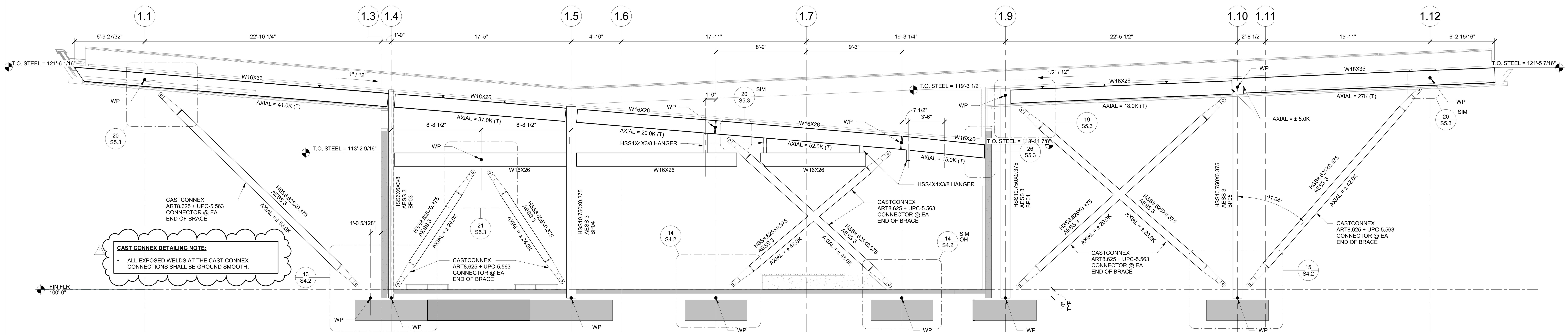
SHEET

FOUNDATION PLAN

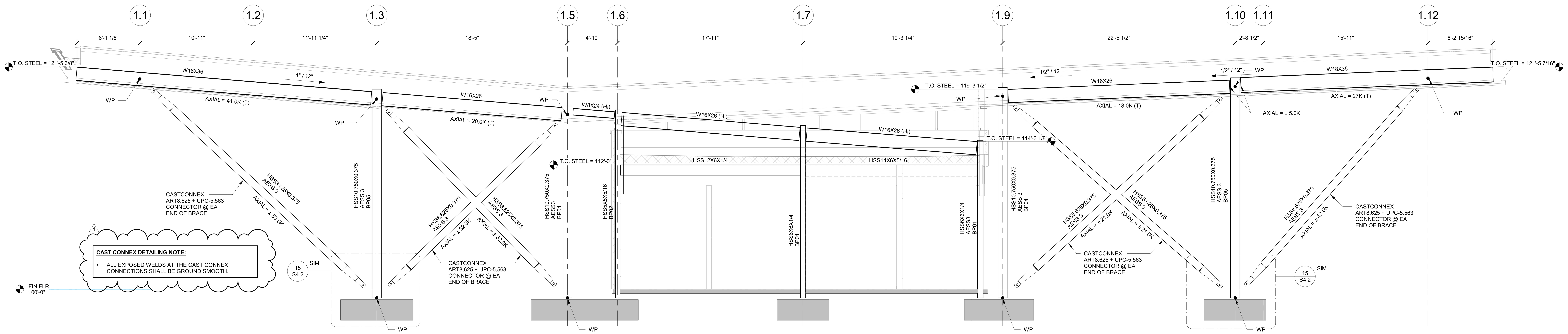
SHEET

S2.1

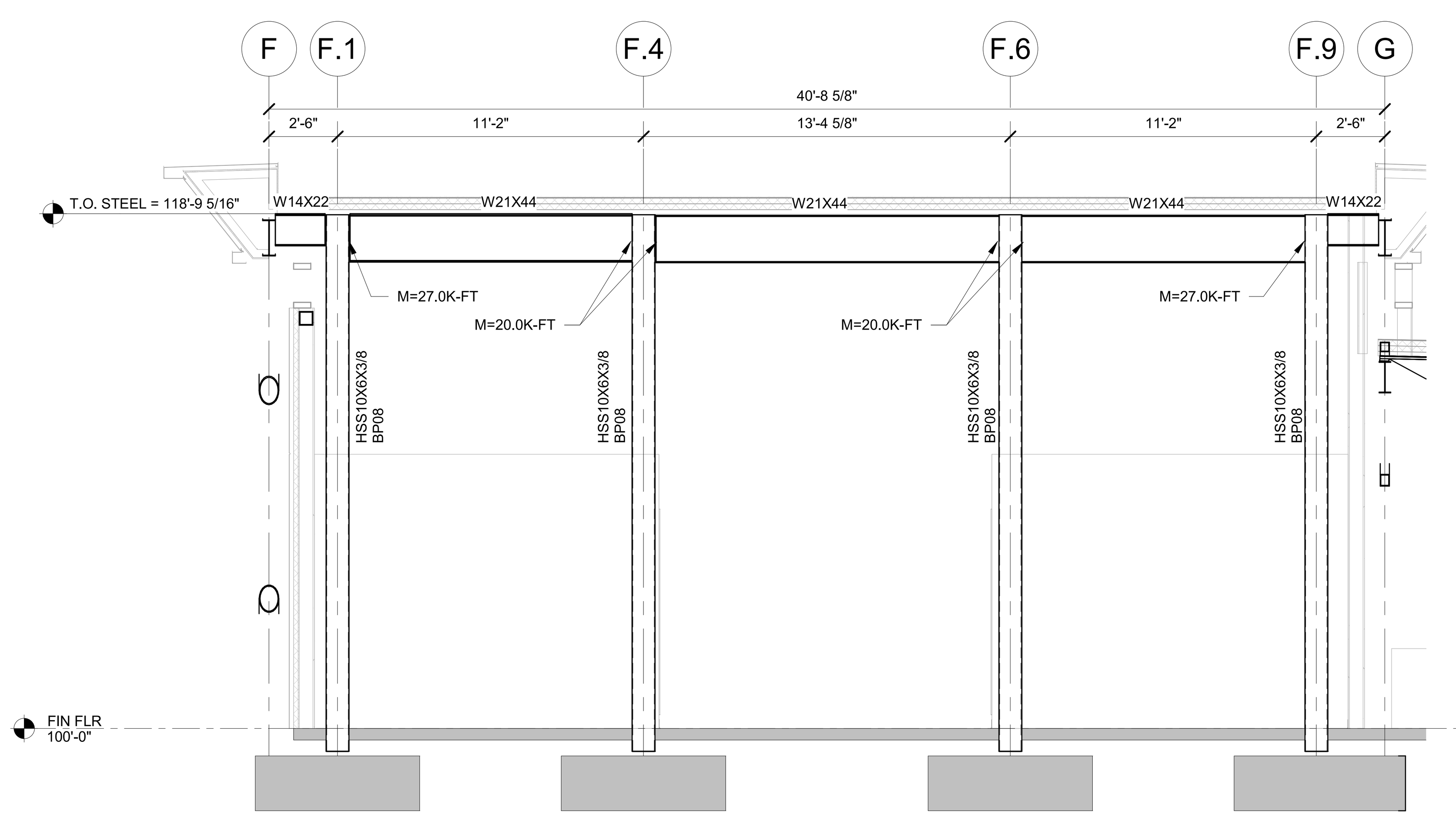
PLOT DATE: 1/21/2026 8:08:02 AM



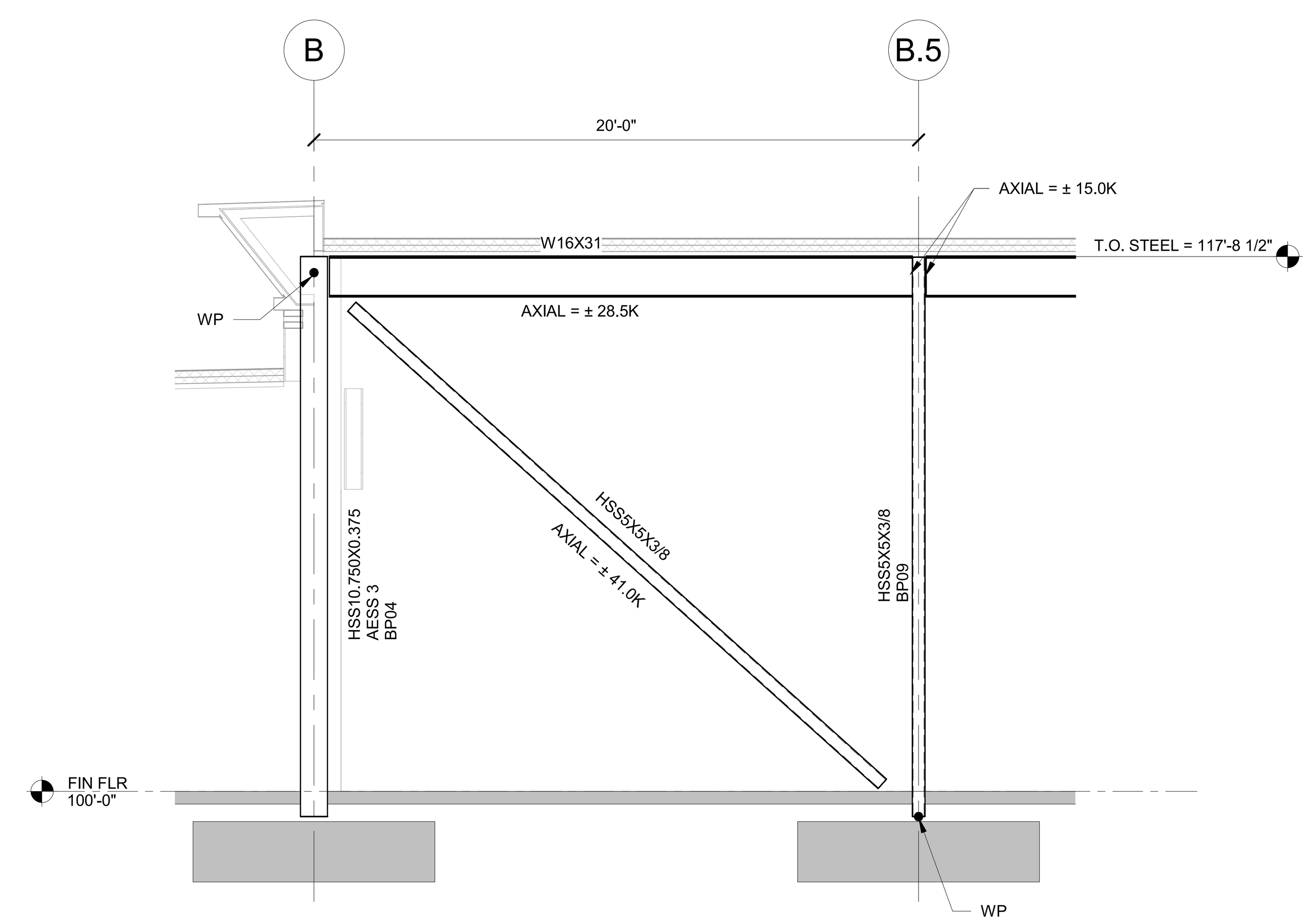
1 FRAMING ELEVATION ALONG GRID B
SCALE : 1/4" = 1'-0"
1/ S2.1



2 FRAMING ELEVATION ALONG GRID C
SCALE : 1/4" = 1'-0"
1/ S2.1



3 FRAMING ELEVATION ALONG GRID 2.45
SCALE : 1/4" = 1'-0"
1/ S2.1



4 FRAMING ELEVATION ALONG GRID 1.5
SCALE : 1/4" = 1'-0"
1/ S2.1

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REVISION HISTORY

NO.	DESCRIPTION	DATE
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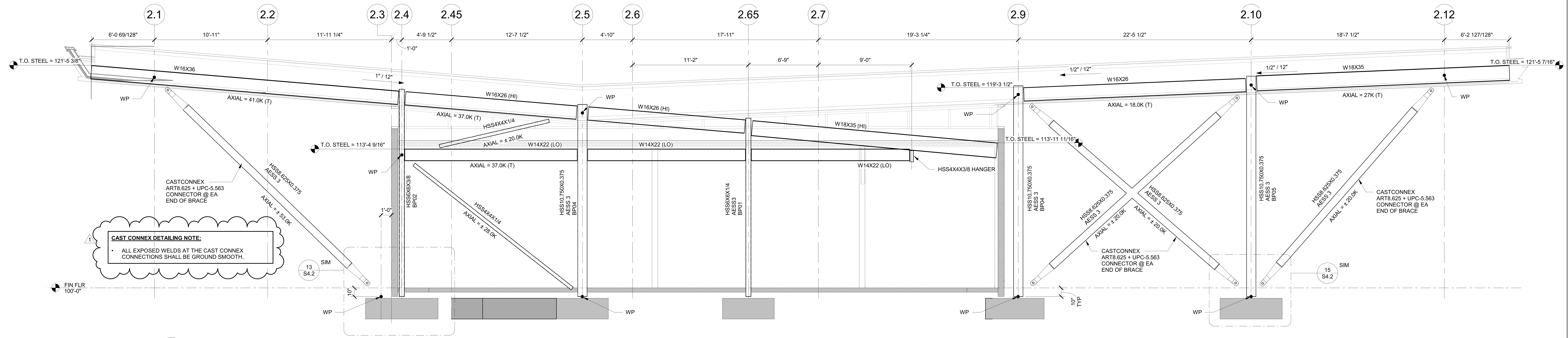
DRAWN BY:	NB
REVIEWED BY:	JS
SCALE:	AS INDICATED

ODOT OSU MULTIPUPOSE FACILITY
STILLWATER, OK

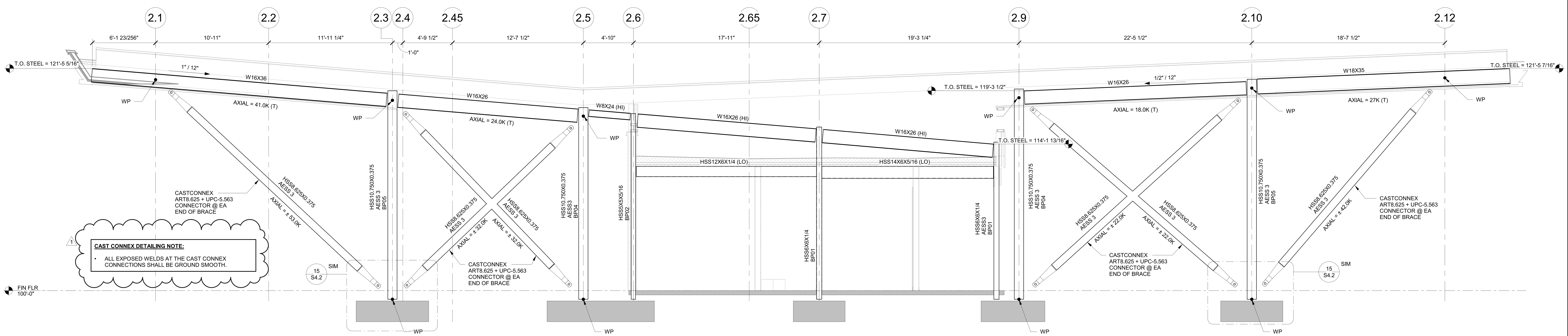
SHEET
FRAMING ELEVATIONS

SHEET
S3.1

PLOT DATE: 1/21/2026 8:06:03 AM



5 FRAMING ELEVATION ALONG GRID G
SCALE : 1/4" = 1'-0"
1/ S2.1



6 FRAMING ELEVATION ALONG GRID F
SCALE : 1/4" = 1'-0"

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JOHN SCHAEFER
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REVISION HISTORY

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REVIEWED BY:	JS
SCALE:	AS INDICATED

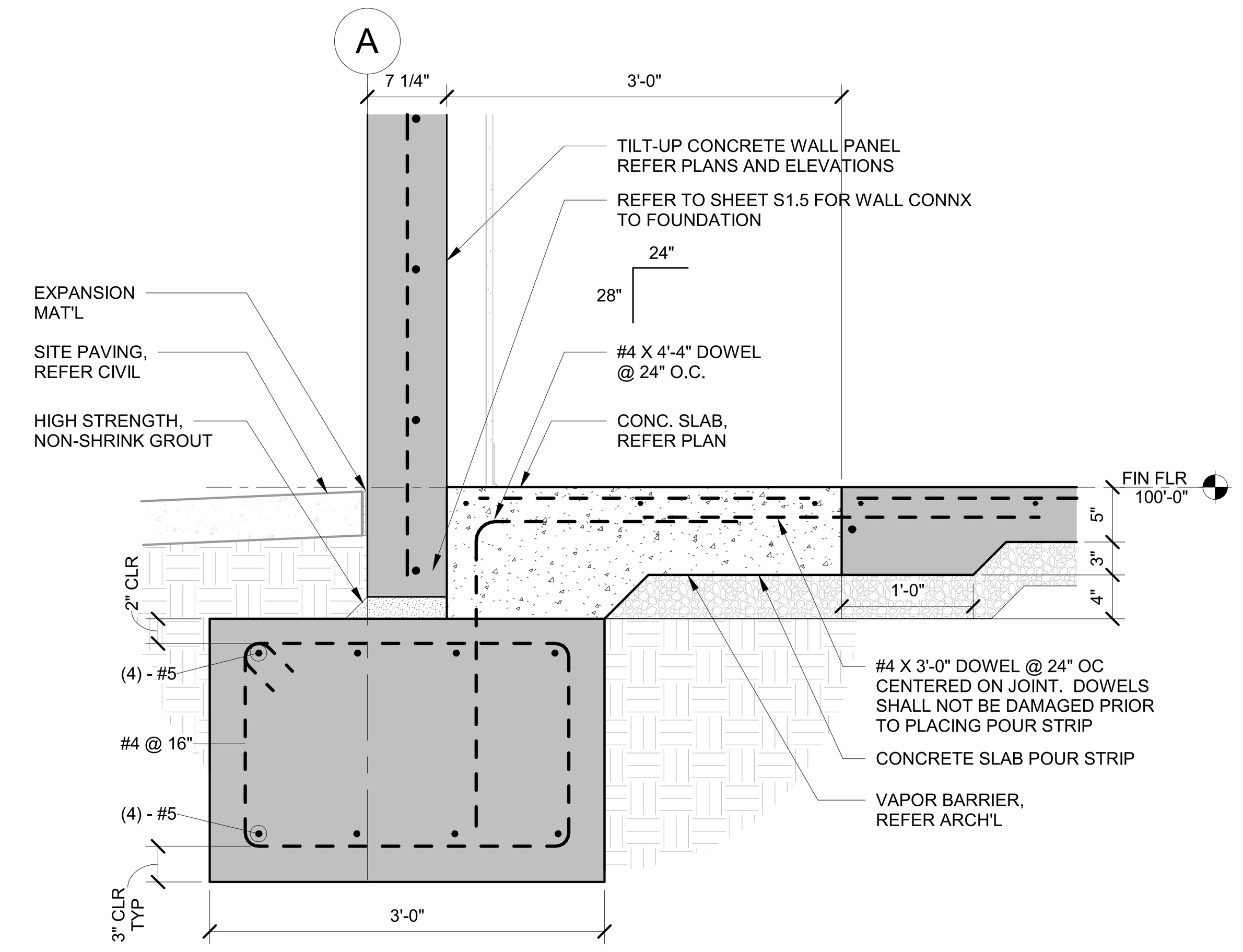
ODOT OSU MULTIPUPOSE FACILITY

STILLWATER, OK

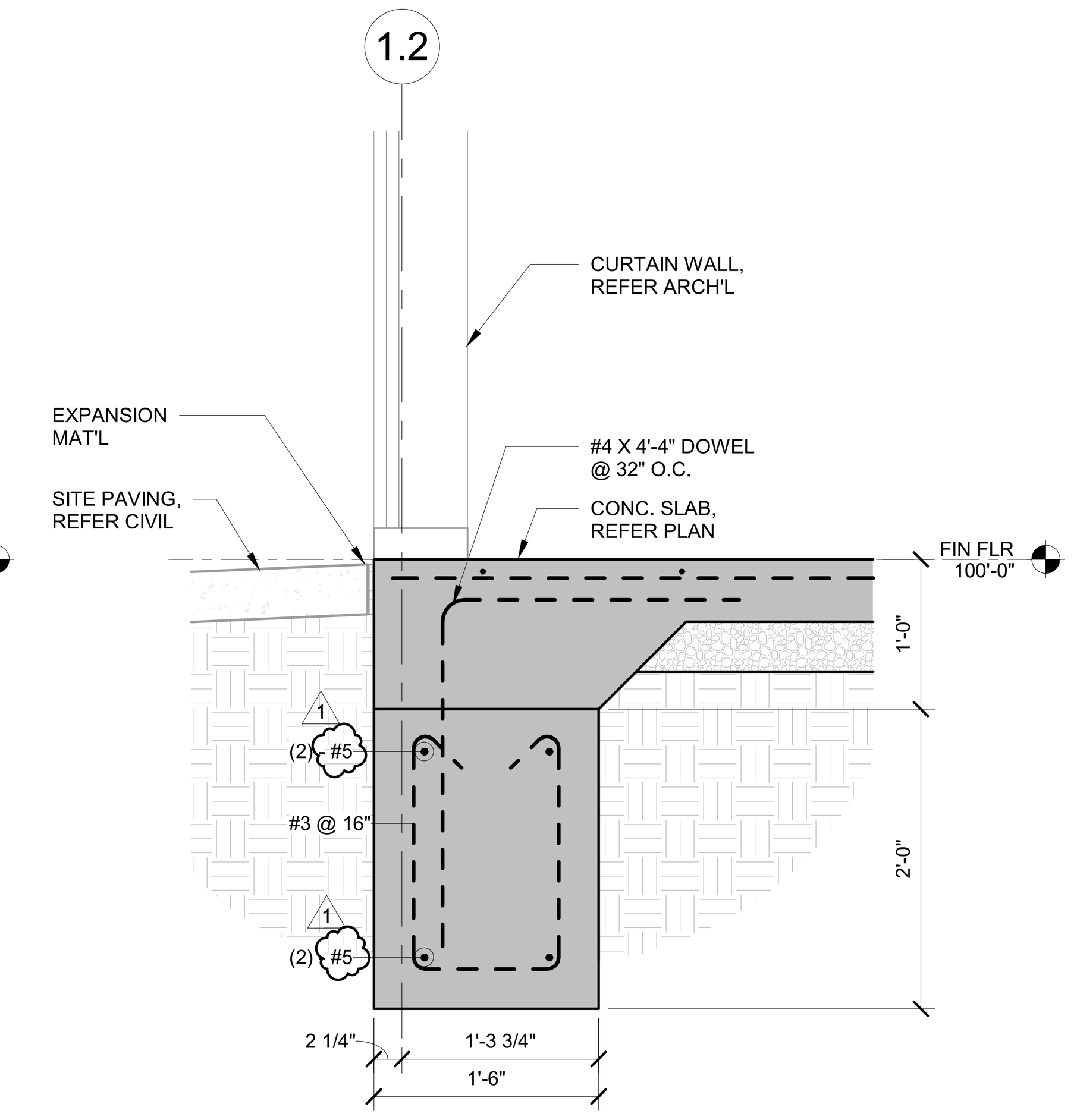
SHEET
FRAMING ELEVATIONS

SHEET
S3.2

PLOT DATE: 1/21/2026 8:06:04 AM



1 FOUNDATION DETAIL AT TILT UP WALL
SCALE : 1" = 1'-0" 1/ S2.1



2 FOUNDATION DETAIL AT CURTAINWALL
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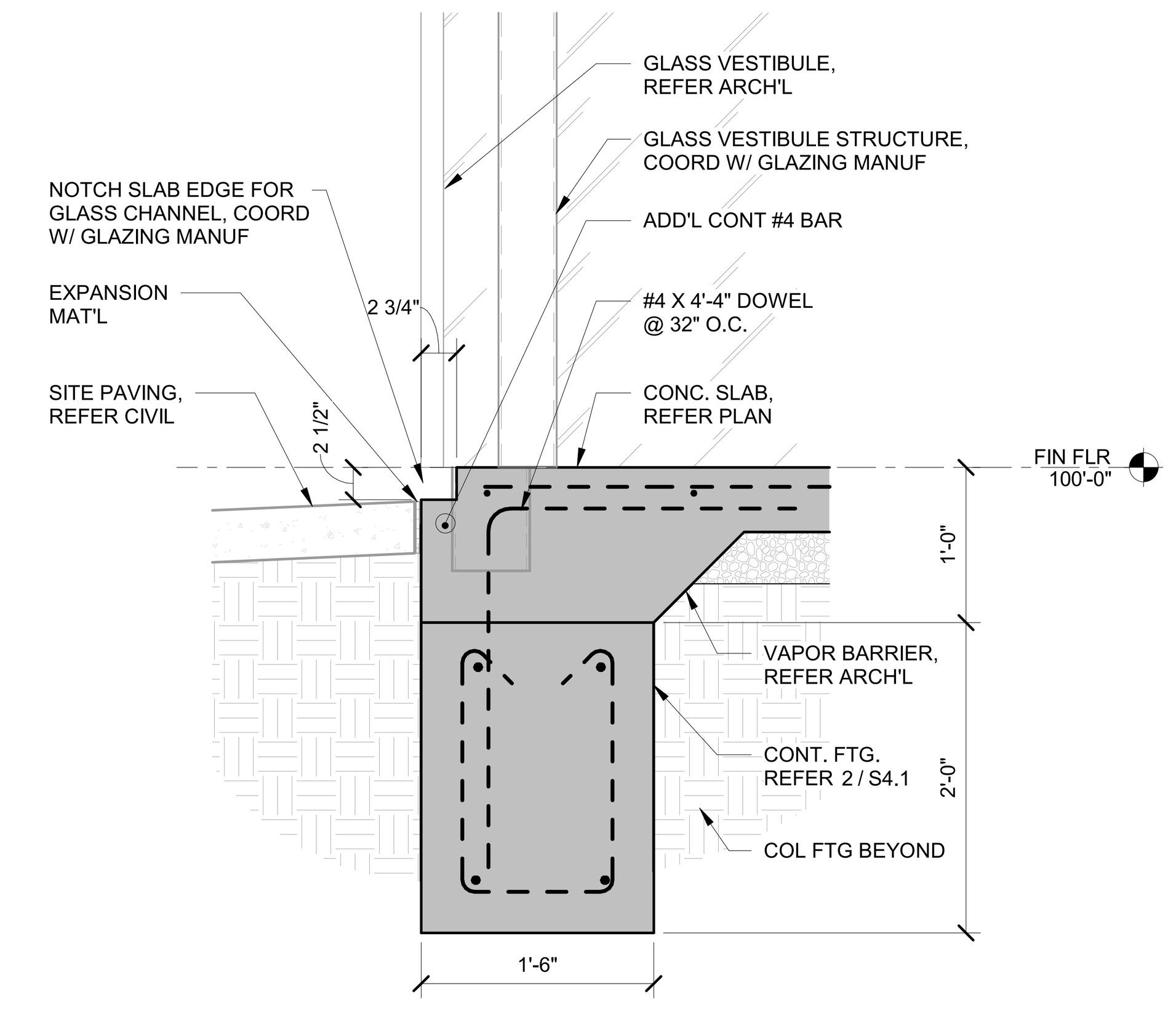

3 FOUNDATION DETAIL AT GLASS VESTIBULE
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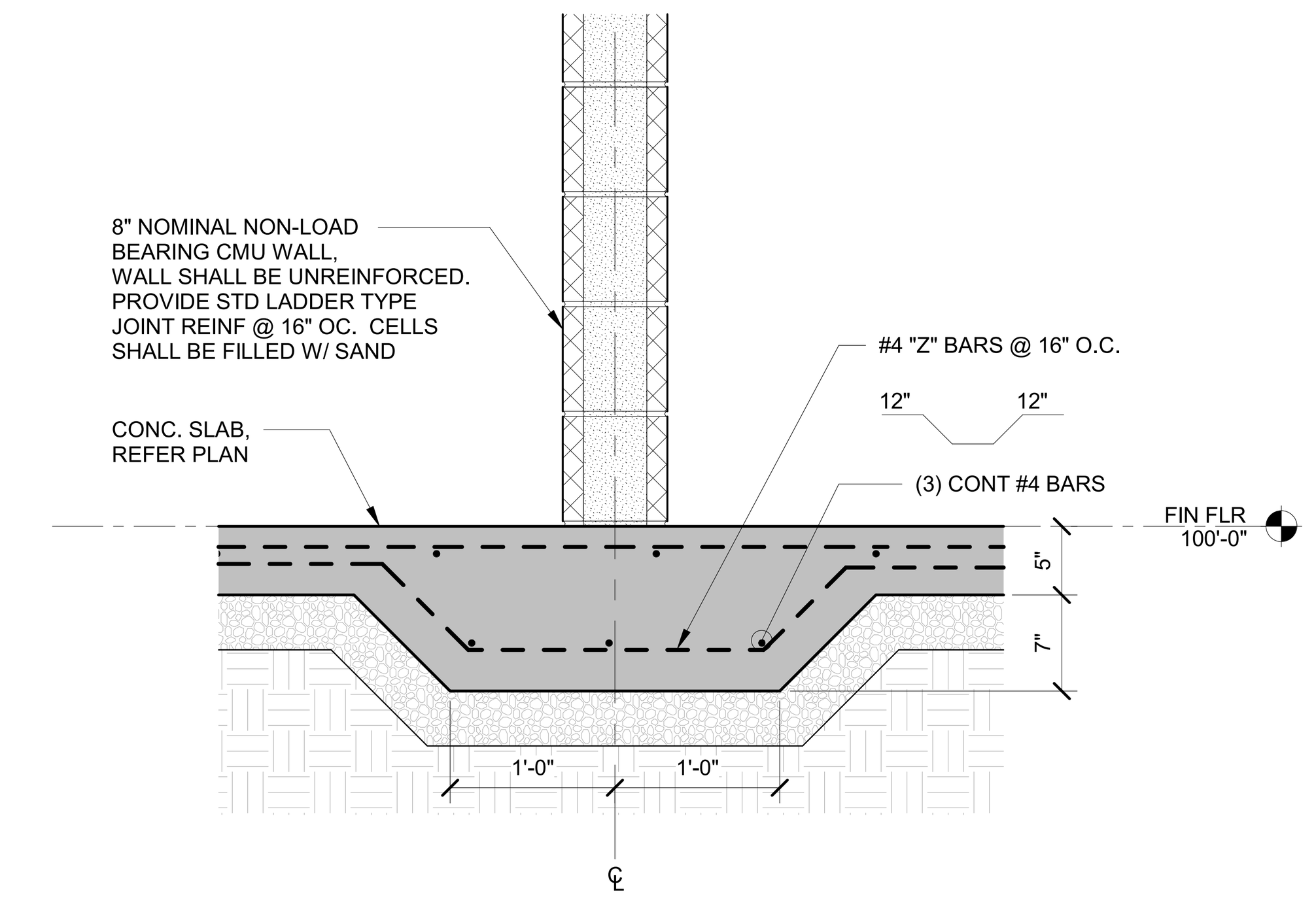

4 FOUNDATION DETAIL AT NON-LOAD BEARING CMU WALL
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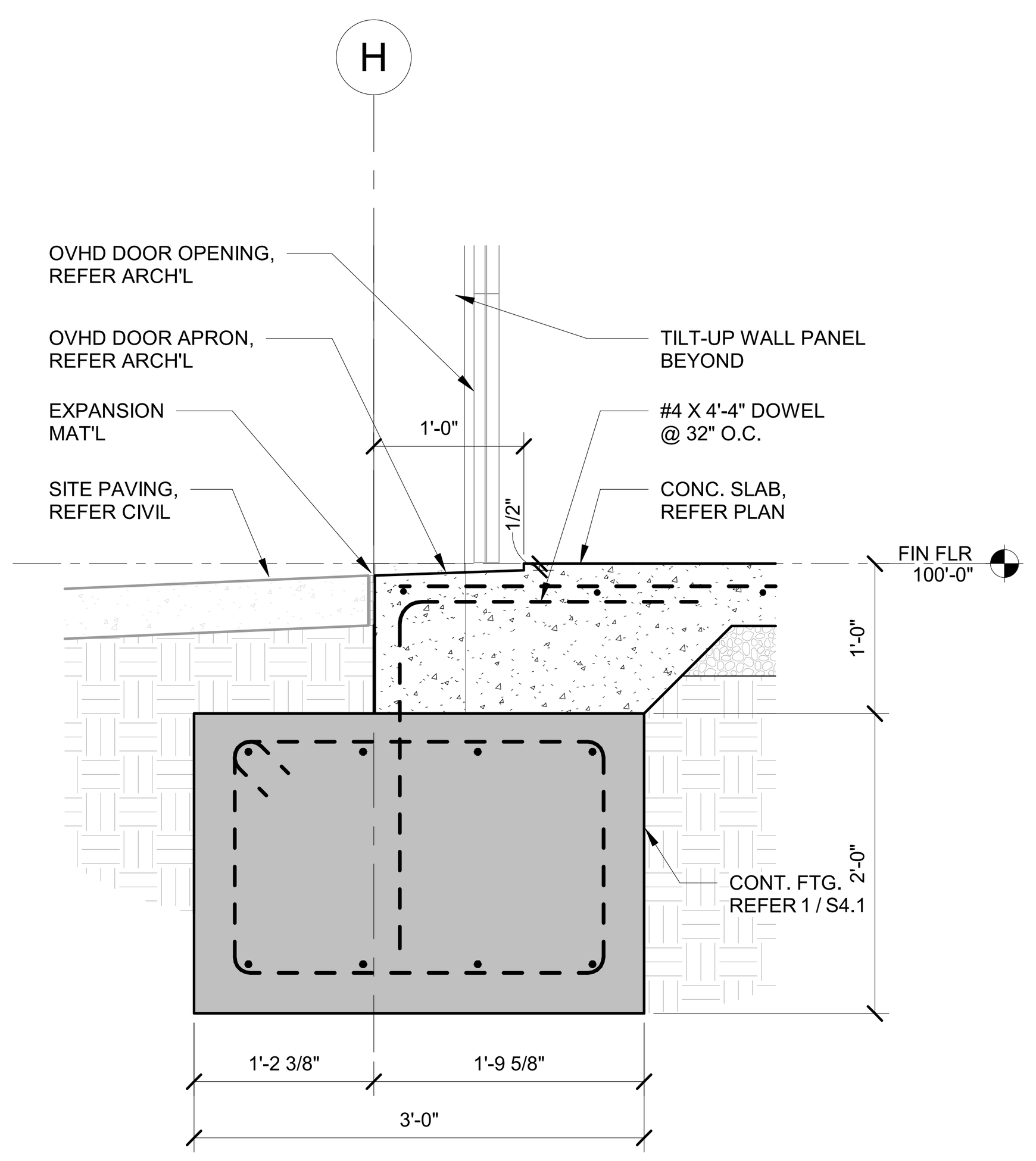

5 FOUNDATION DETAIL AT OVERHEAD DOOR
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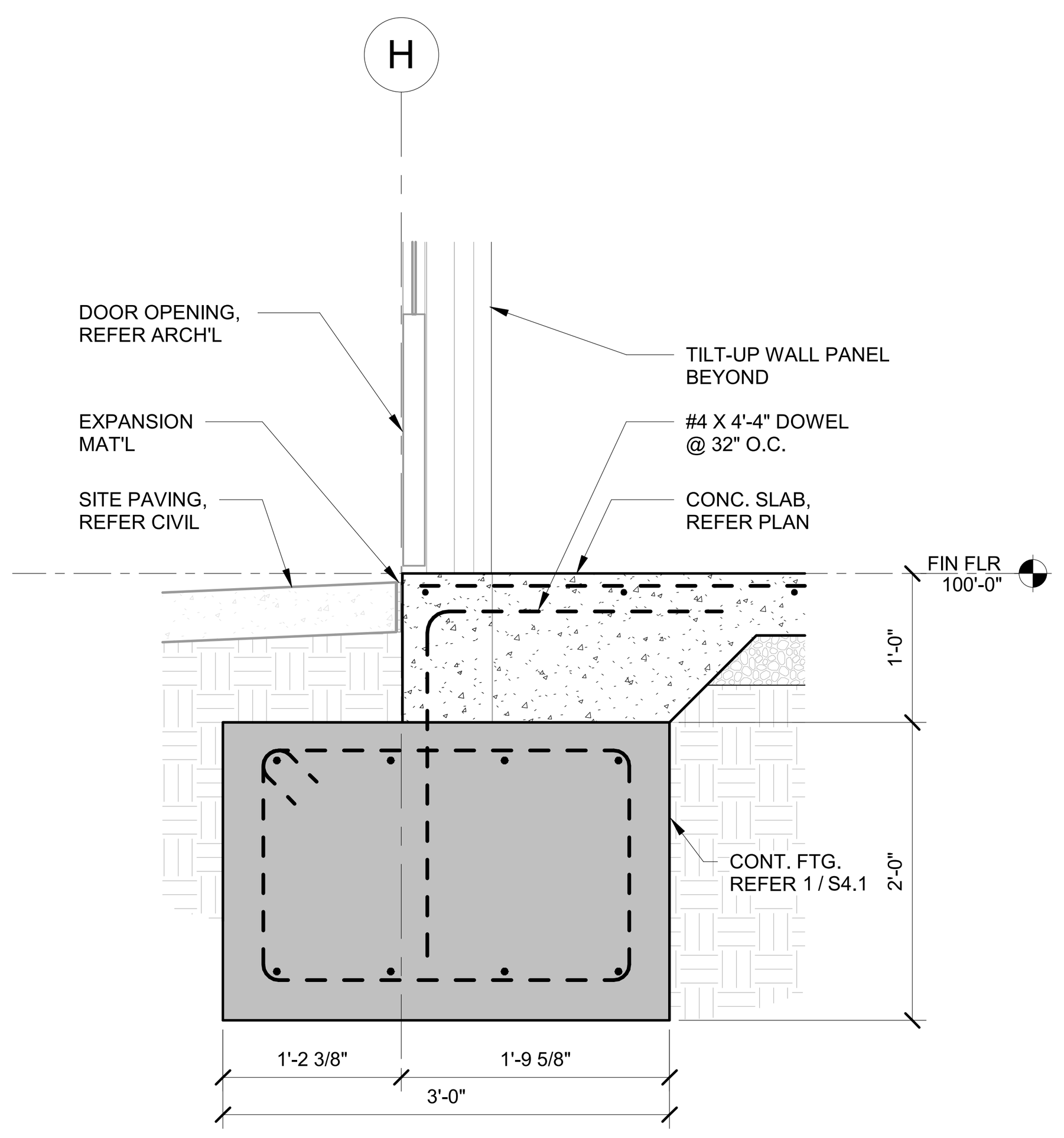

6 FOUNDATION DETAIL AT TYPICAL DOOR
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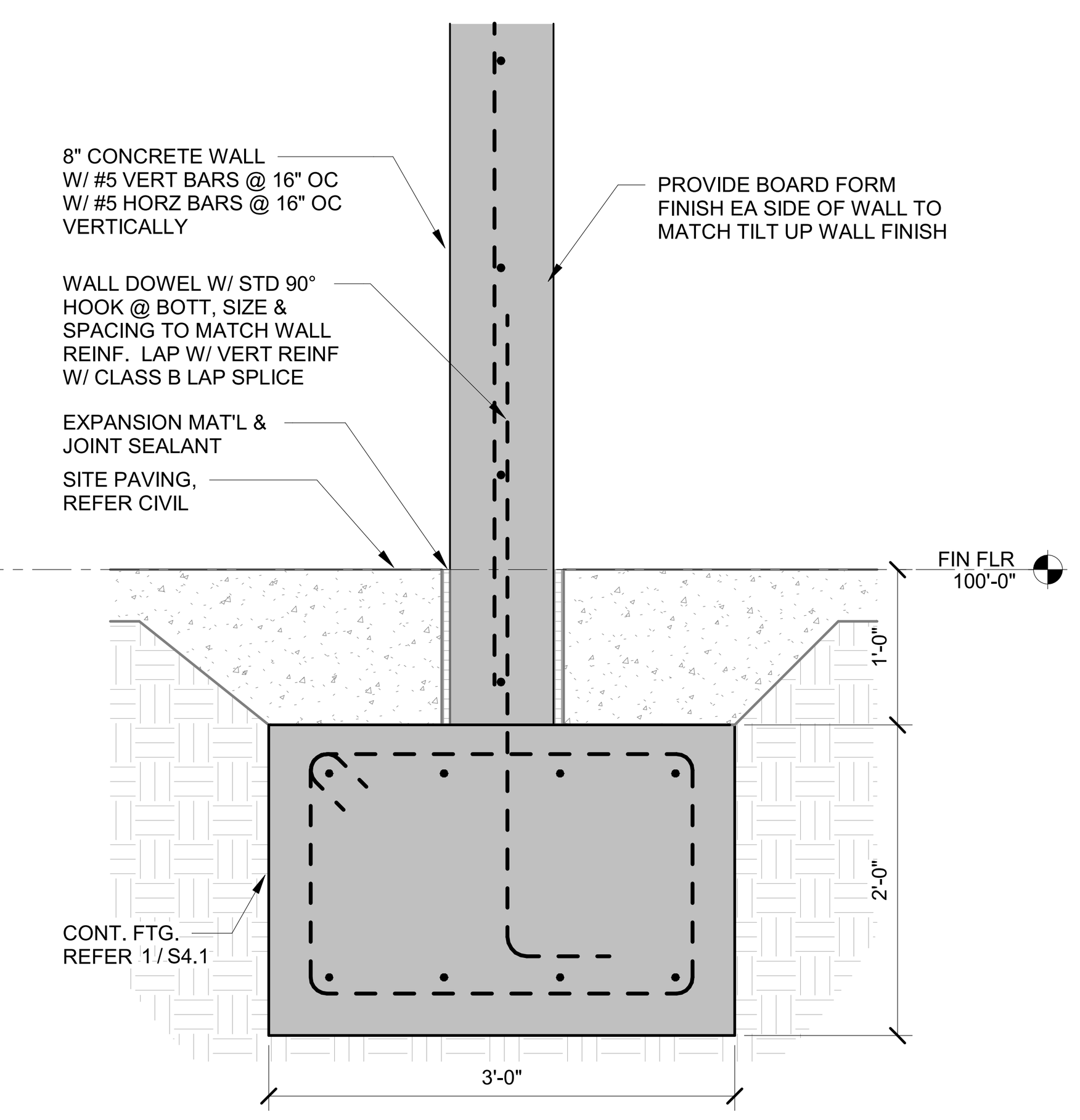

7 FOUNDATION DETAIL AT EXTERIOR CONCRETE WALL
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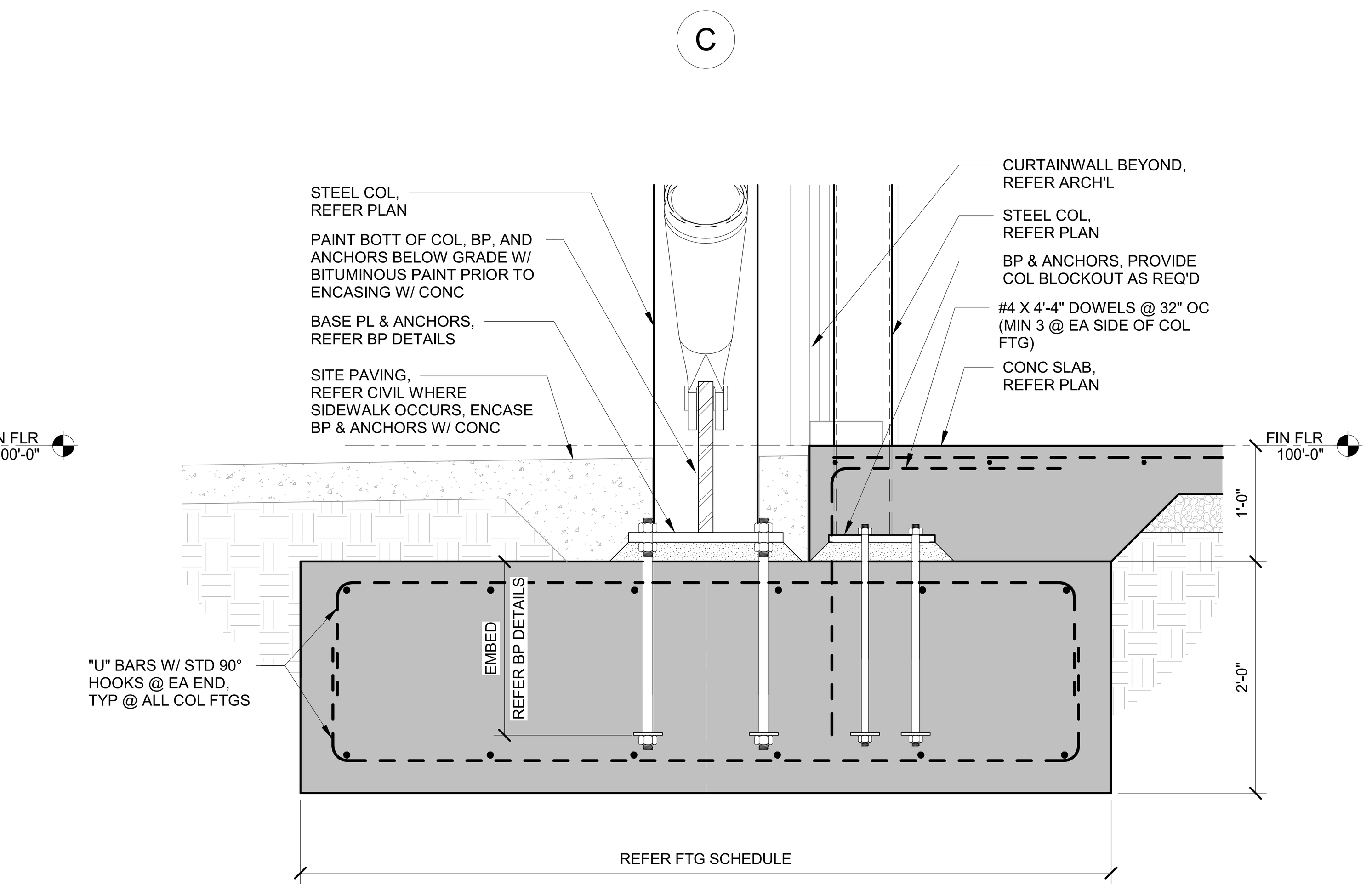

8 FOUNDATION DETAIL AT EXTERIOR COLUMN
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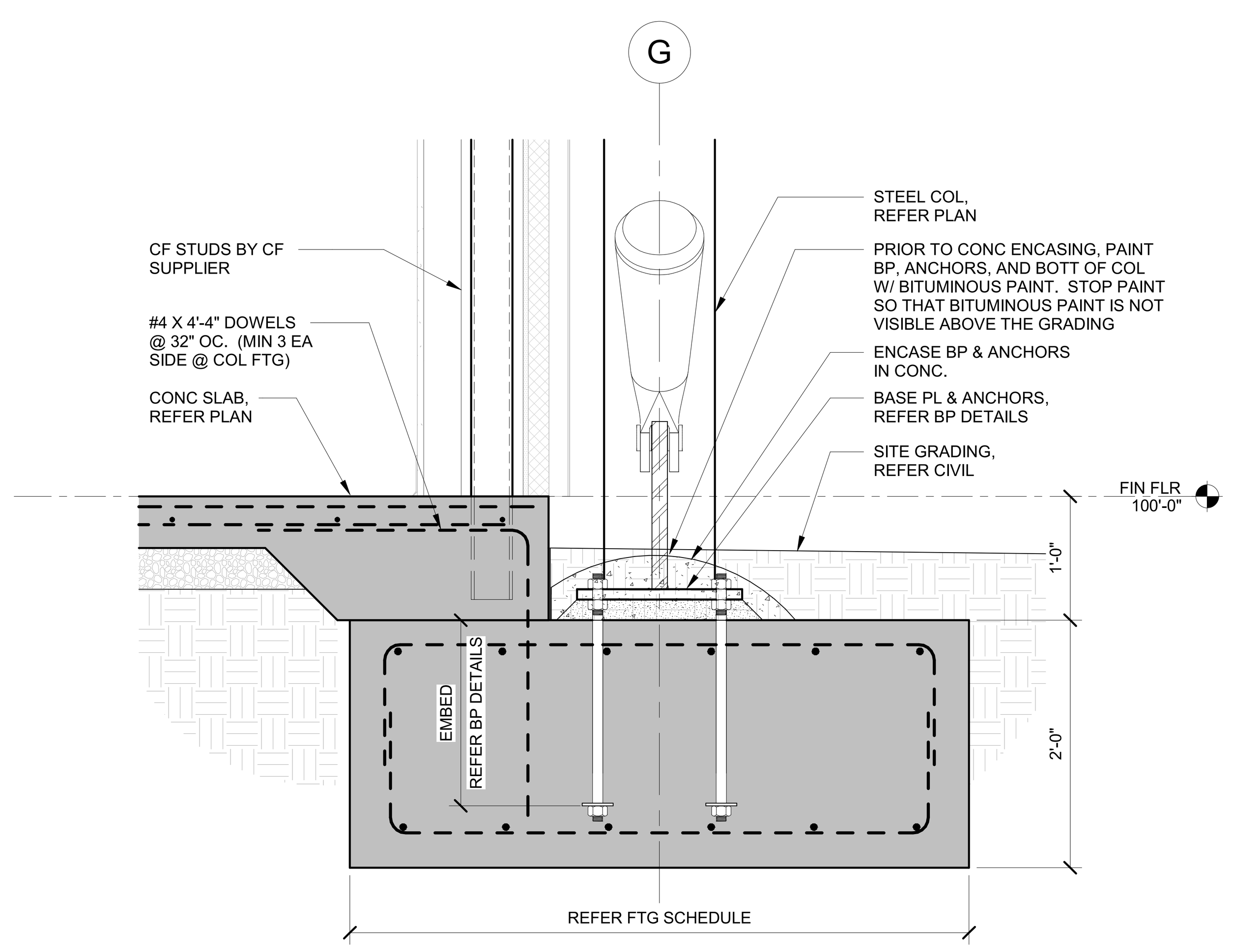

9 FOUNDATION DETAIL AT EXTERIOR COLUMN
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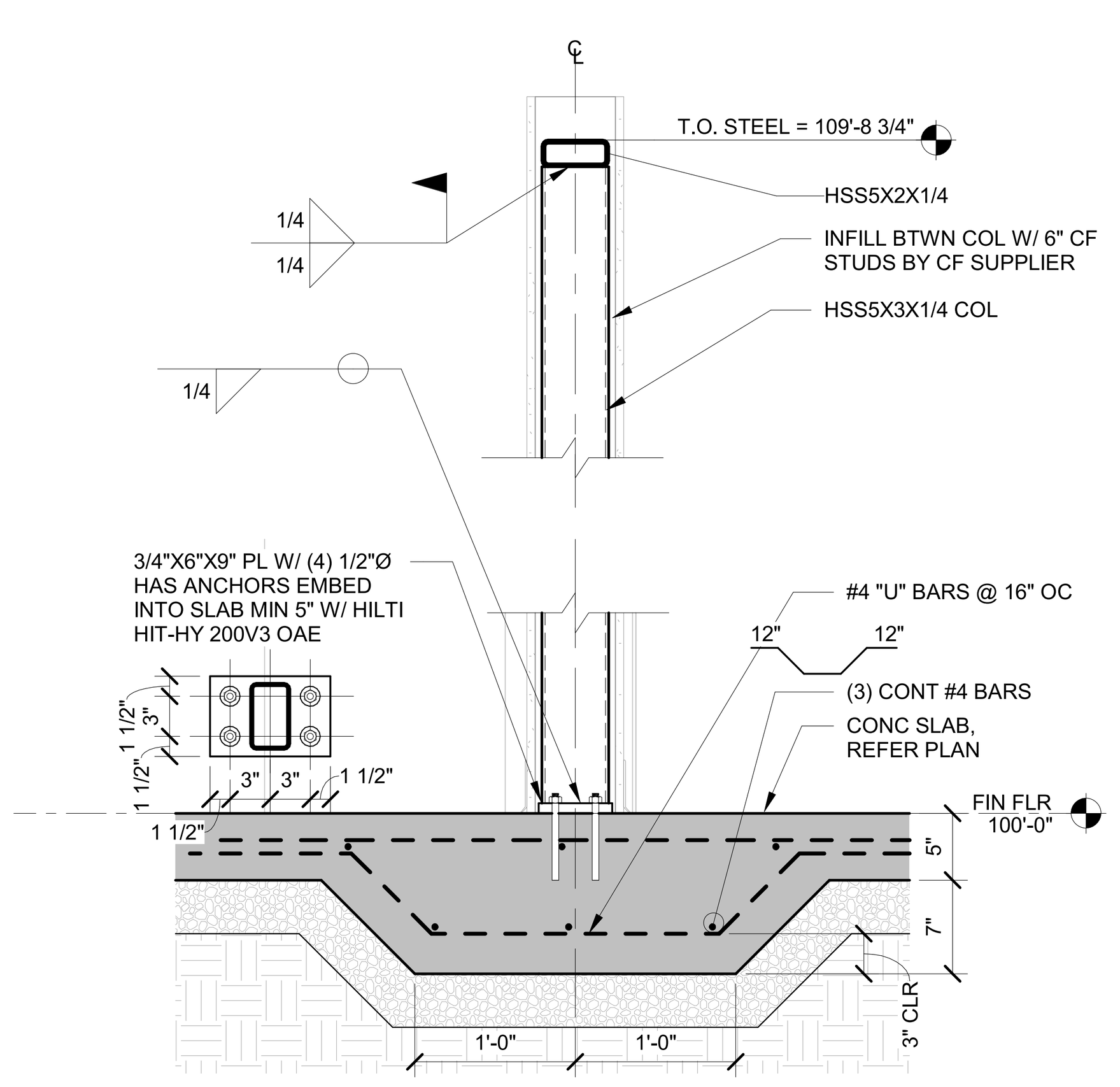

10 FOUNDATION DETAIL AT FREESTANDING PARTITION WALL
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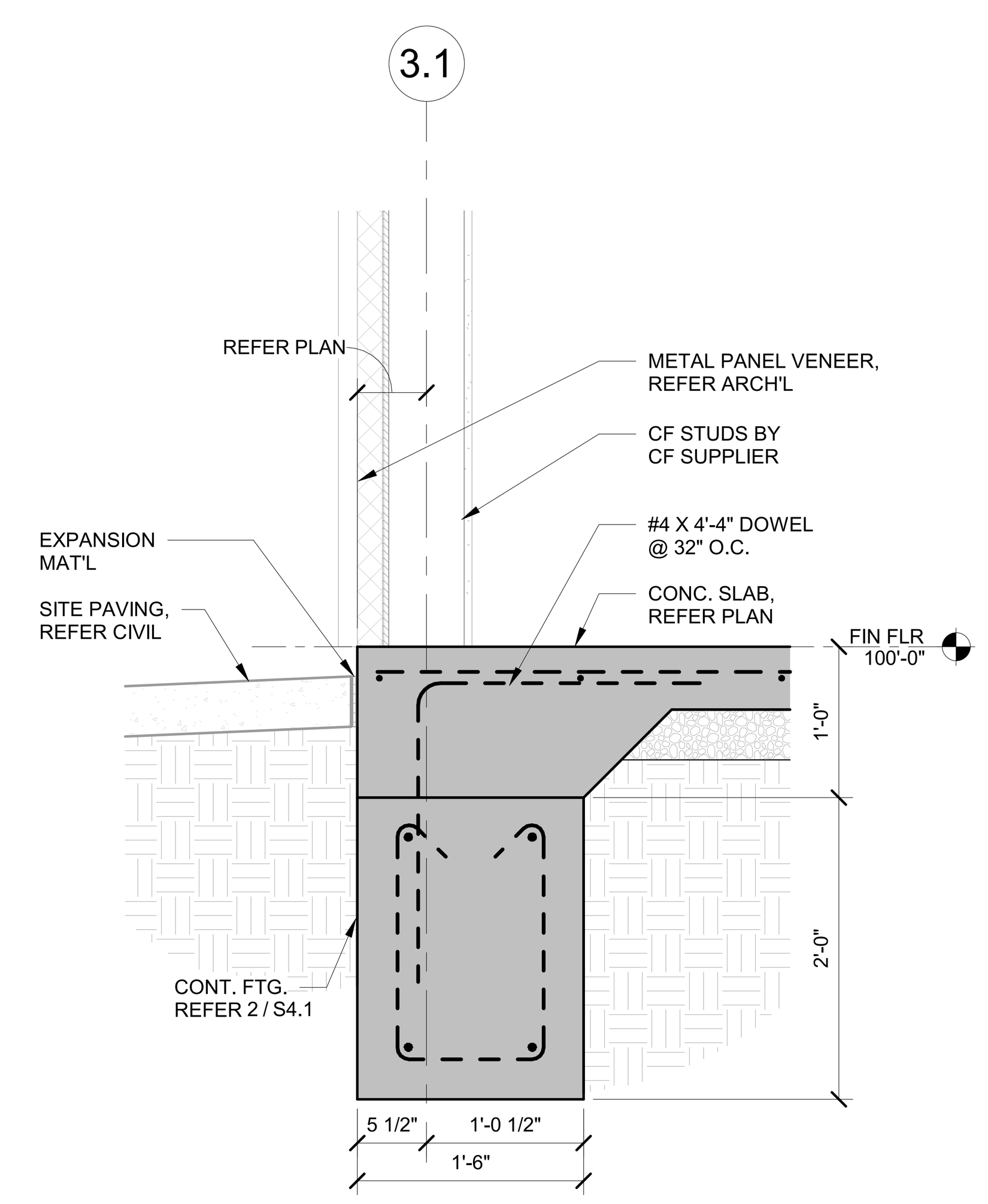

11 FOUNDATION DETAIL AT METAL PANEL
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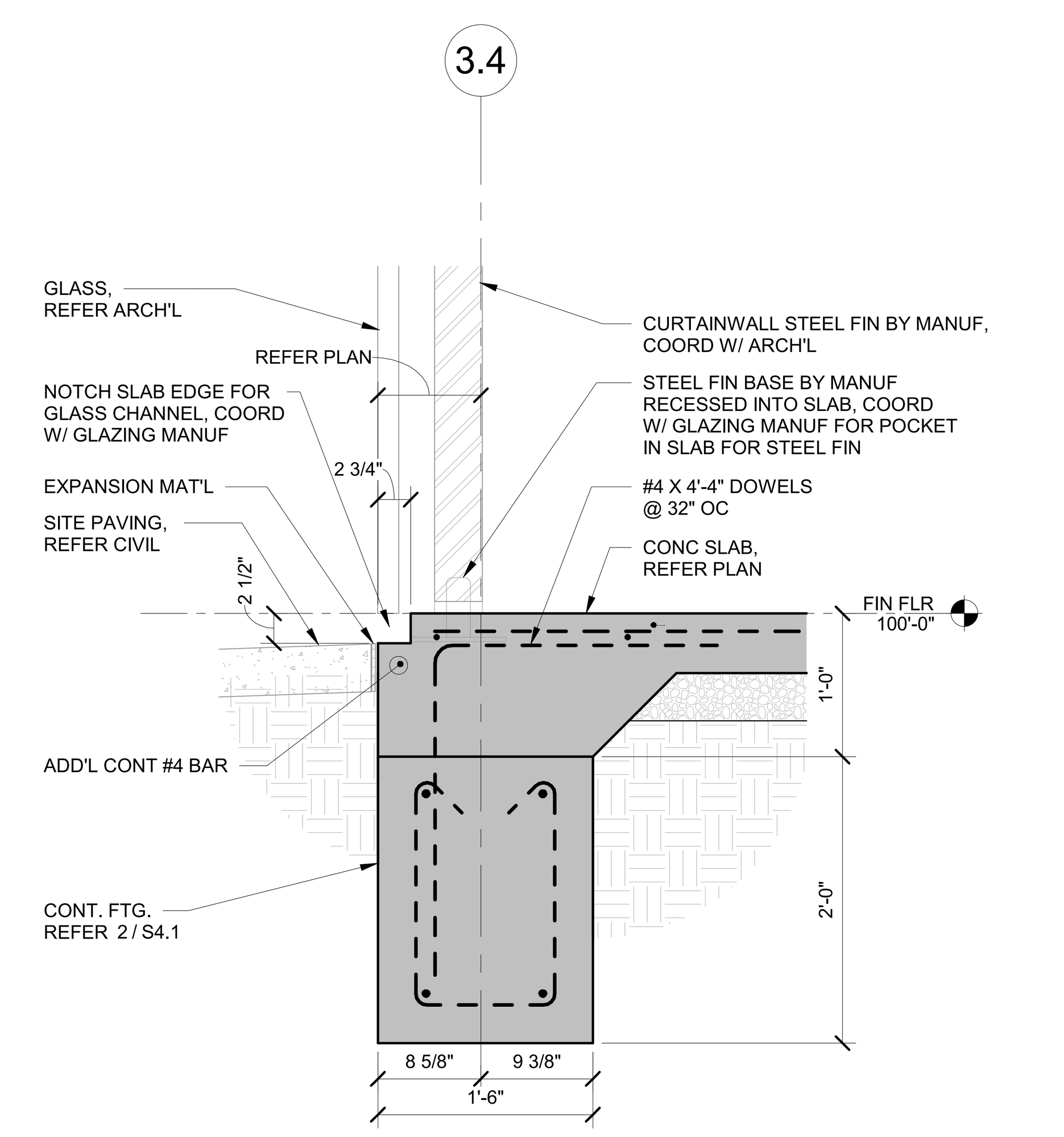

12 FOUNDATION DETAIL AT GLAZING
SCALE : 1" = 1'-0" 1/ S2.1

PLOT DATE: 1/21/2026 8:06:05 AM

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JOHN SCHAEFER
01-21-2026
33631
OKLAHOMA

REVISION HISTORY

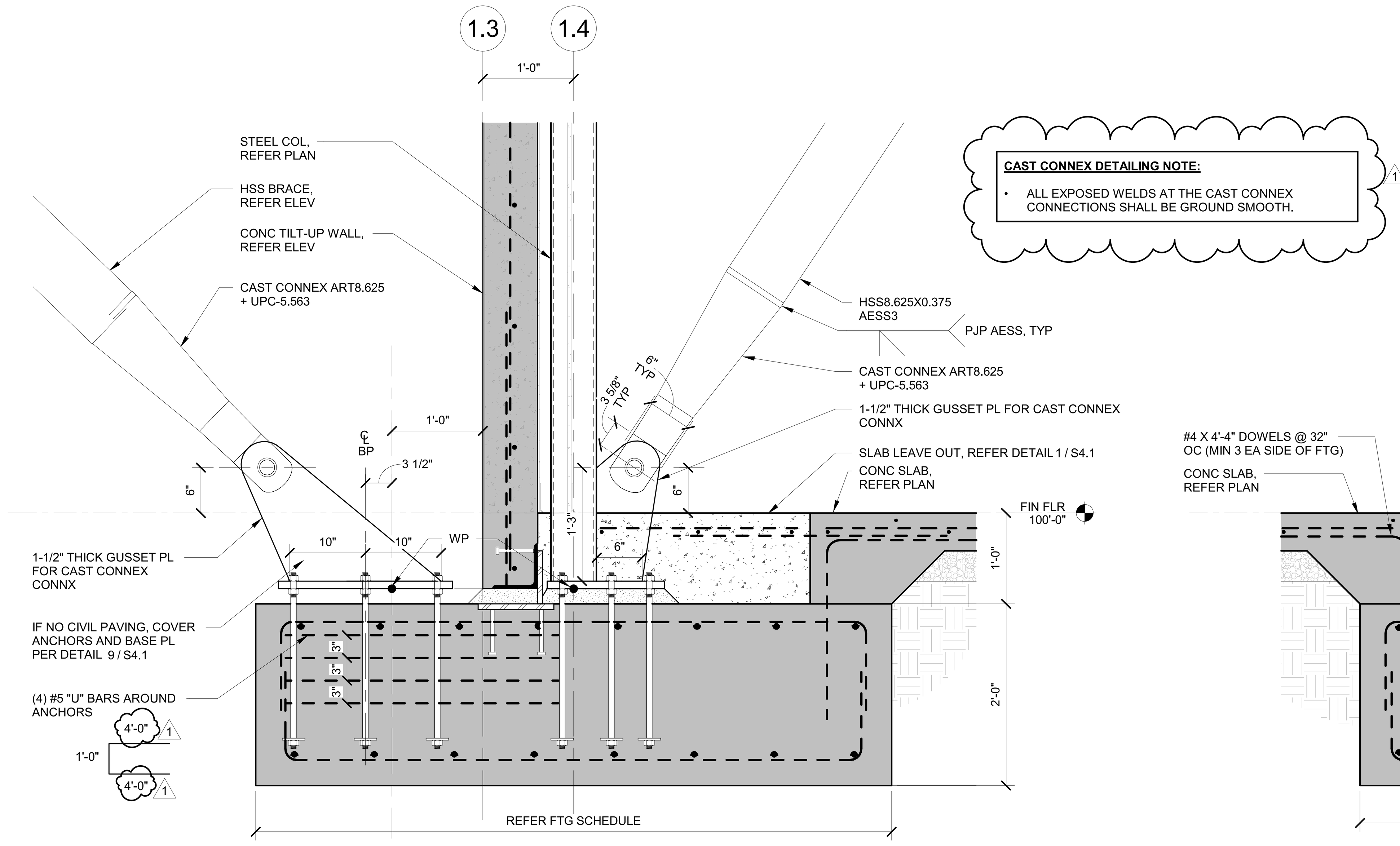
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	01/21/2026

SUBMITTAL:	CONSTRUCTION DOCUMENTS
DATE:	09/12/2025
PROJECT NO:	221001
DESIGNED BY:	JS
DRAWN BY:	NB
REVIEWED BY:	JS
SCALE:	AS INDICATED

ODOT OSU MULTIPUPOSE FACILITY
STILLWATER, OK

SHEET
FOUNDATION DETAILS

SHEET
S4.1



13 FOUNDATION DETAIL AT BRACING CONNECTION
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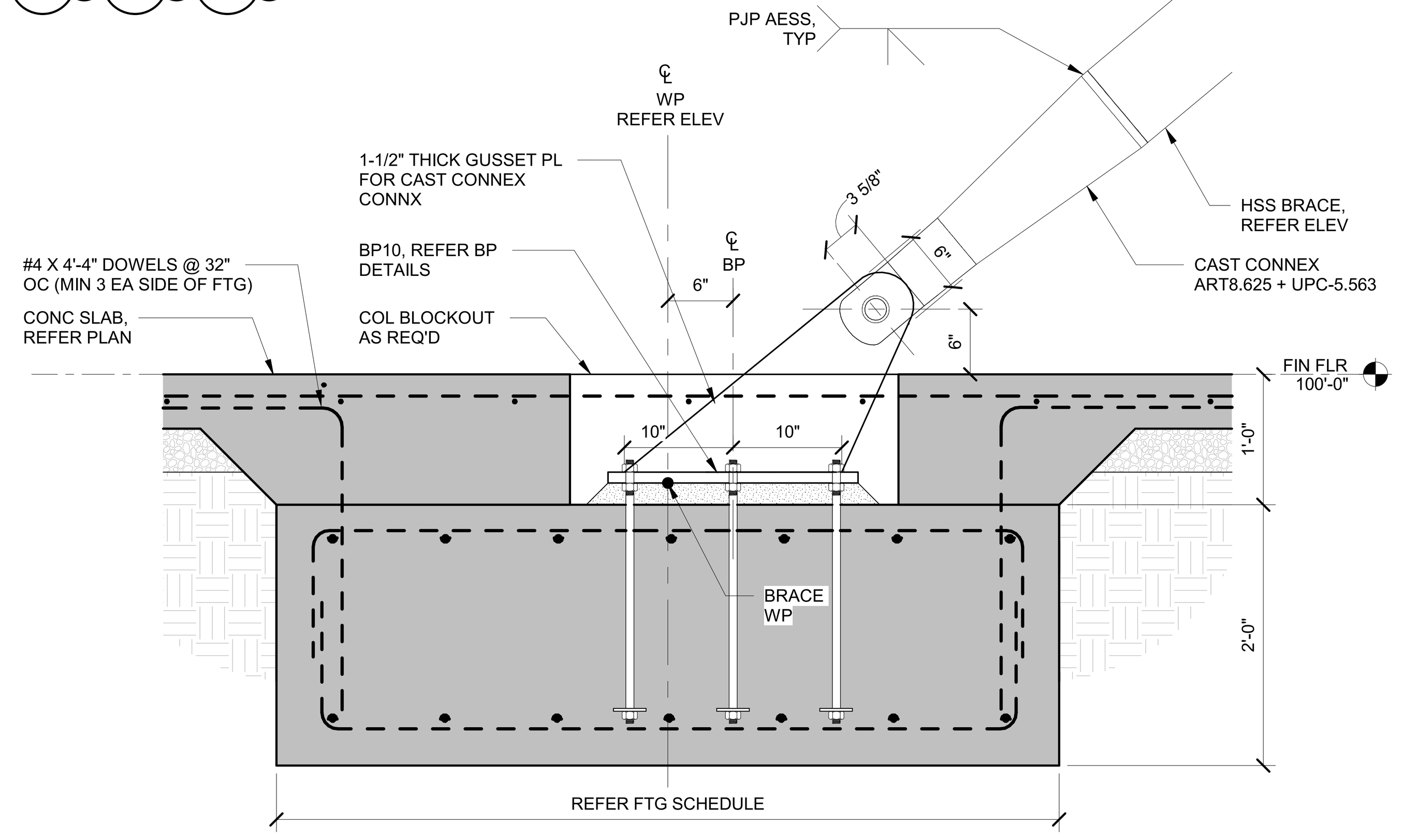

14 FOUNDATION DETAIL AT BRACING CONNECTION
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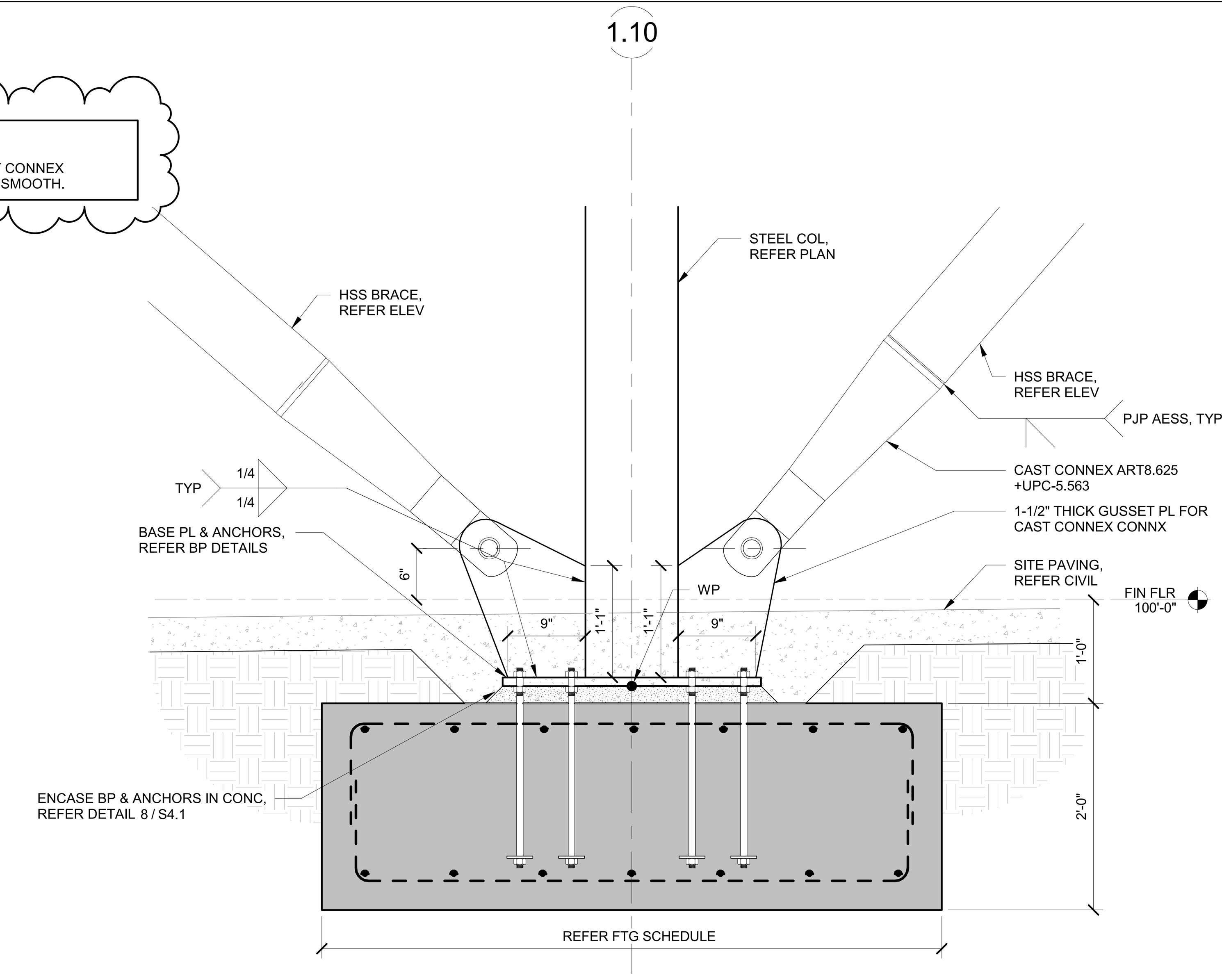

15 FOUNDATION DETAIL AT BRACING CONNECTION
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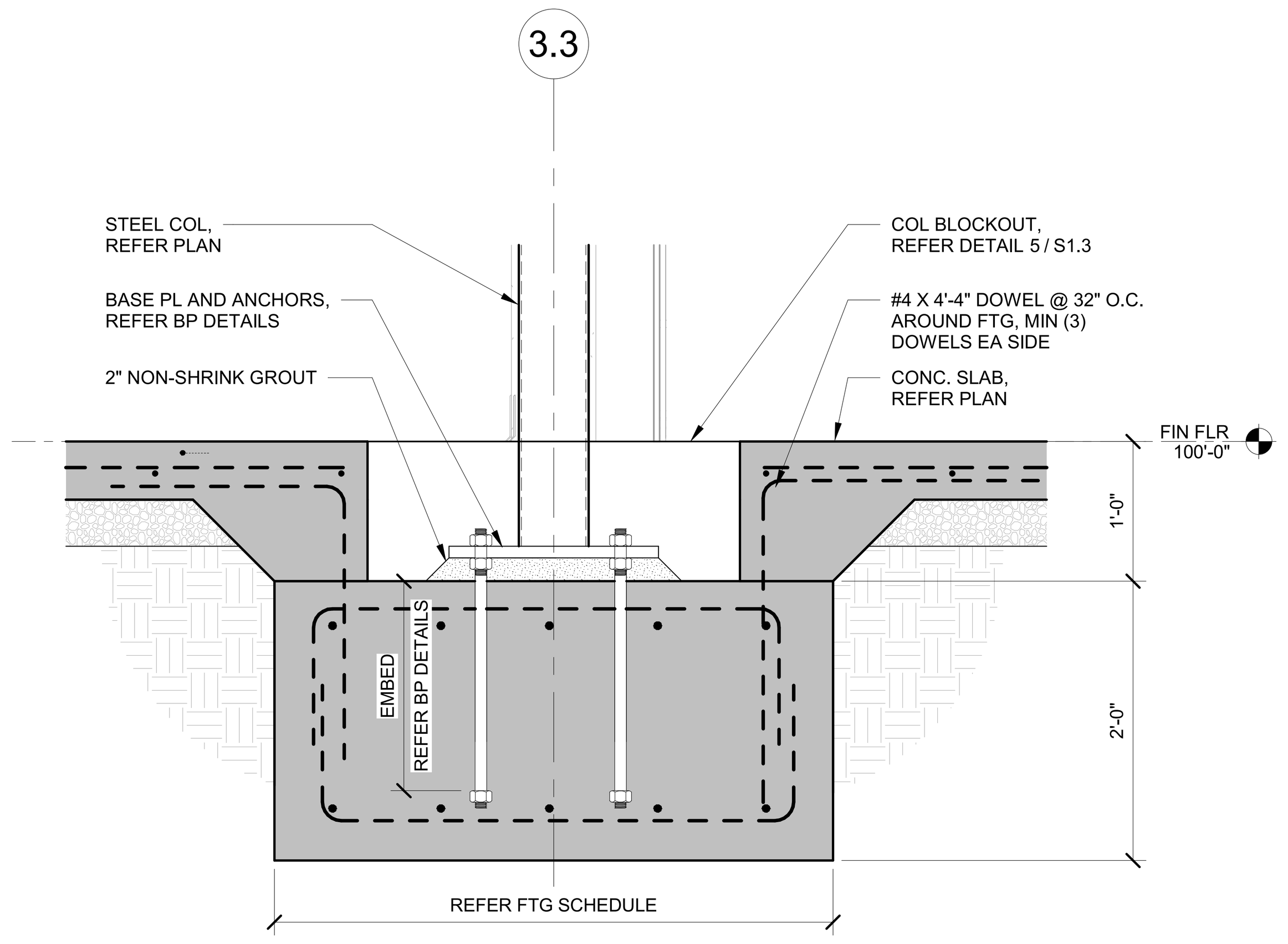
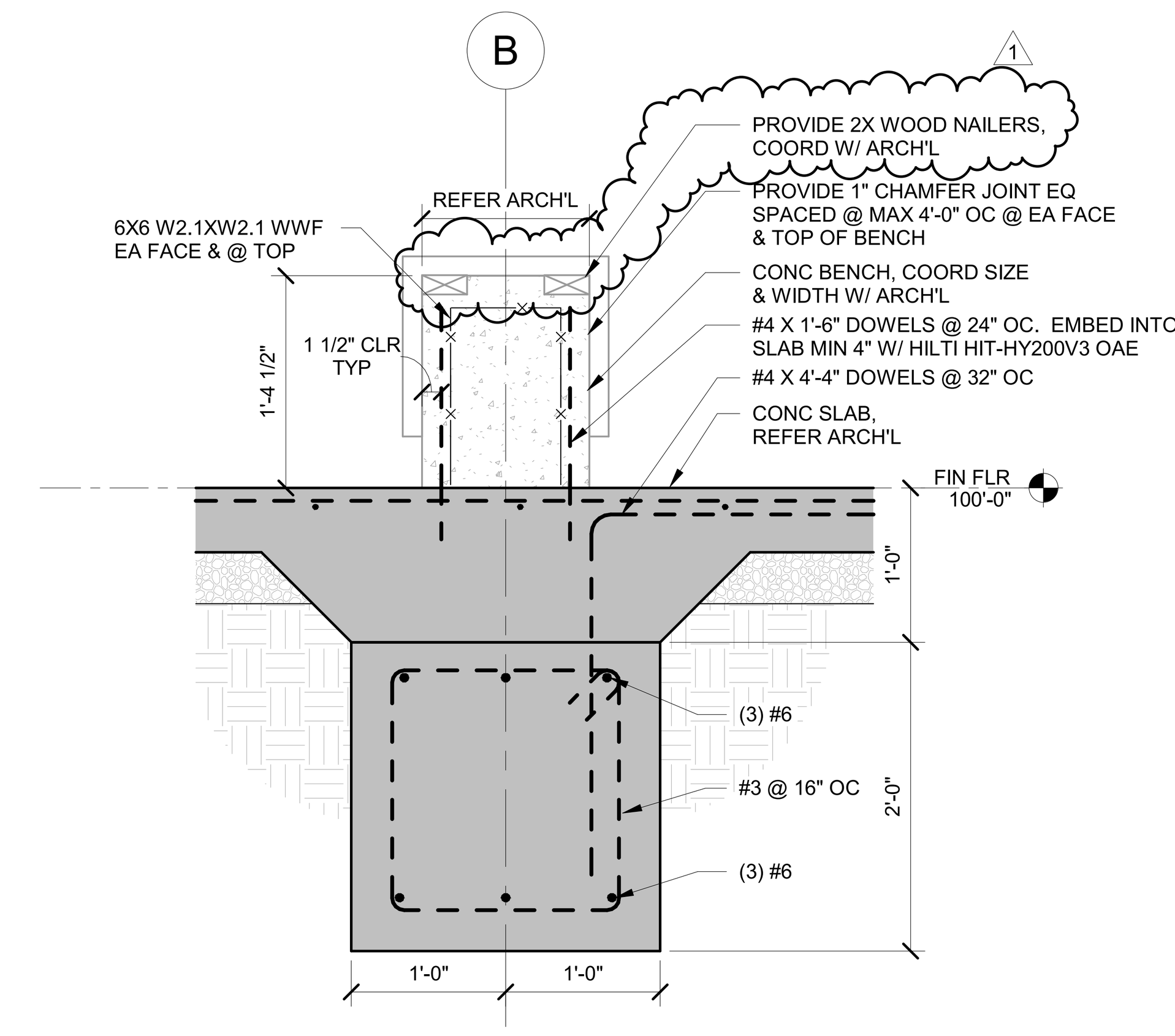


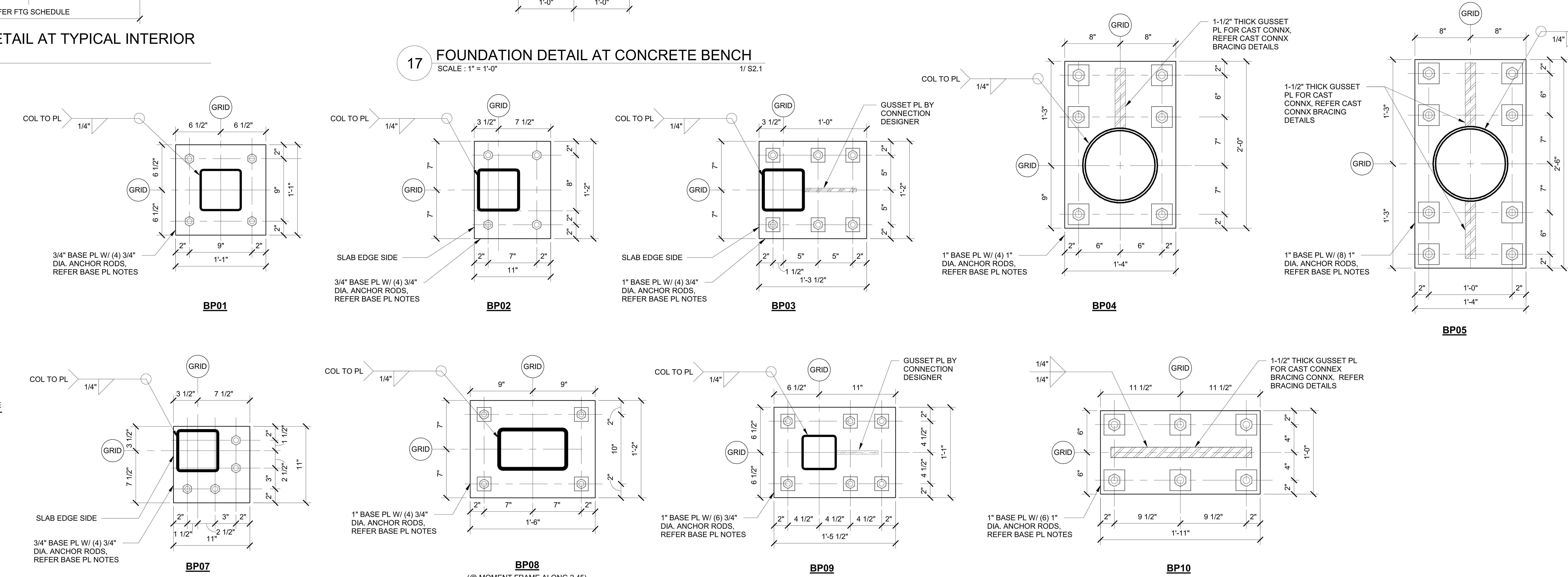
16 FOUNDATION DETAIL AT TYPICAL INTERIOR FOOTING
SCALE : 1" = 1'-0"

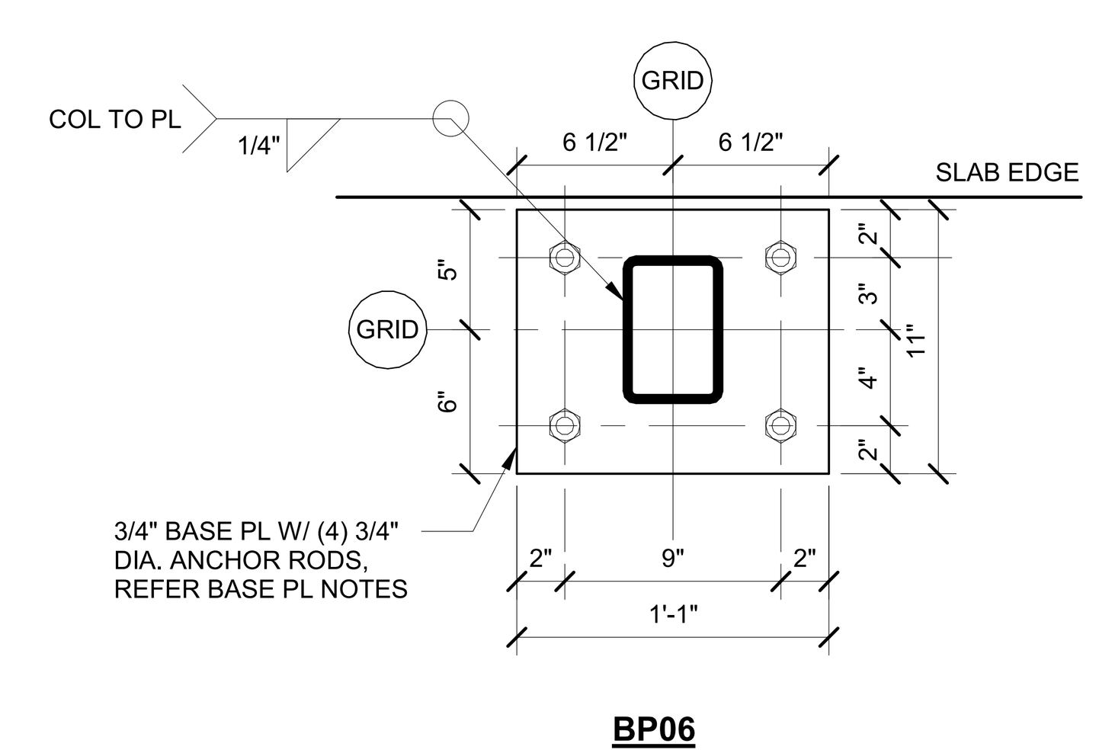


17 FOUNDATION DETAIL AT CONCRETE BENCH
SCALE : 1" = 1'-0" 1/ S2.1

COLUMN BASE PLATE AND ANCHOR ROD NOTES:

1. ALL BASE PLATES ARE ASTM A36, U.N.O.
2. BOTTOM OF BASE PLATE ELEVATION = 6" BELOW FINISHED FLOOR, U.N.O.
3. ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 55, U.N.O.
4. PROVIDE A NUT AND STANDARD WASHER TACK WELDED TO THE ANCHOR ROD AT THE EMBEDDED END AND LEVELING NUT AT THE TOP. LENGTH OF ANCHOR ROD SHOWN ON THE DETAILS IS THE TOP OF PILASTER OR TOP OF FOOTING TO THE EMBEDDED WASHER.
5. AT ALL COLUMNS IN BRACED FRAMES AND IN MOMENT FRAMES, PROVIDE WASHER PLATES MINIMUM 3/8" THICK FOLLOWING RECOMMENDED PLATE SIZE AND HOLE DIAMETER PER AISC TABLE 14-2. WELD WASHER PLATE TO BASE PLATE WITH 1/4" FILLET WELD ON 3 SIDES MINIMUM.
6. EMBED LENGTH OF ANCHOR ROD SHOWN IN THE DETAILS IS FROM THE TOP OF FOOTING, GRADE BEAM, OR PIER CAP TO THE EMBEDDED WASHER. **UNO, THE EMBEDDED DEPTH OF THE ANCHORS SHALL BE 16"**
7. GC TO ENSURE A MINIMUM OF 2 FULL THREADS SHALL EXTEND PAST THE TOP OF THE ANCHOR ROD.





18 BASE PLATE DETAILS
SCALE :N.T.S.

PLOT DATE: 1/21/2026 8:06:07 AM

CEC
CEC CORPORATION
OKLAHOMA Transportation

JOHN SCHAEFER 01-21-2026 33631 LICENSED PROFESSIONAL ENGINEER OKLAHOMA

REVISION HISTORY

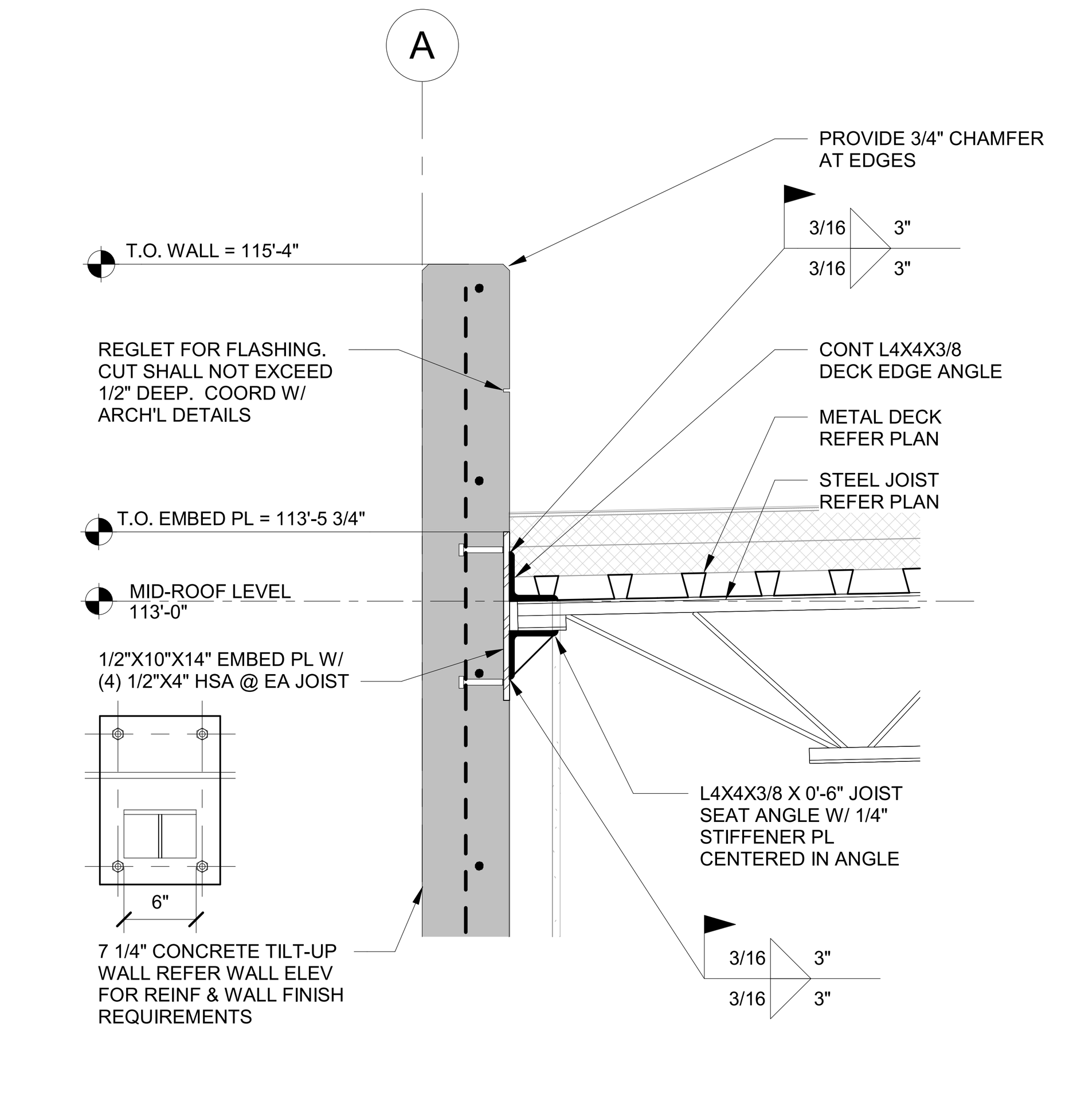
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	01/21/2026

SUBMITTAL:	CONSTRUCTION DOCUMENTS
DATE:	09/12/2025
PROJECT NO:	221001
DESIGNED BY:	JS
DRAWN BY:	NB
REVIEWED BY:	JS
SCALE:	AS INDICATED

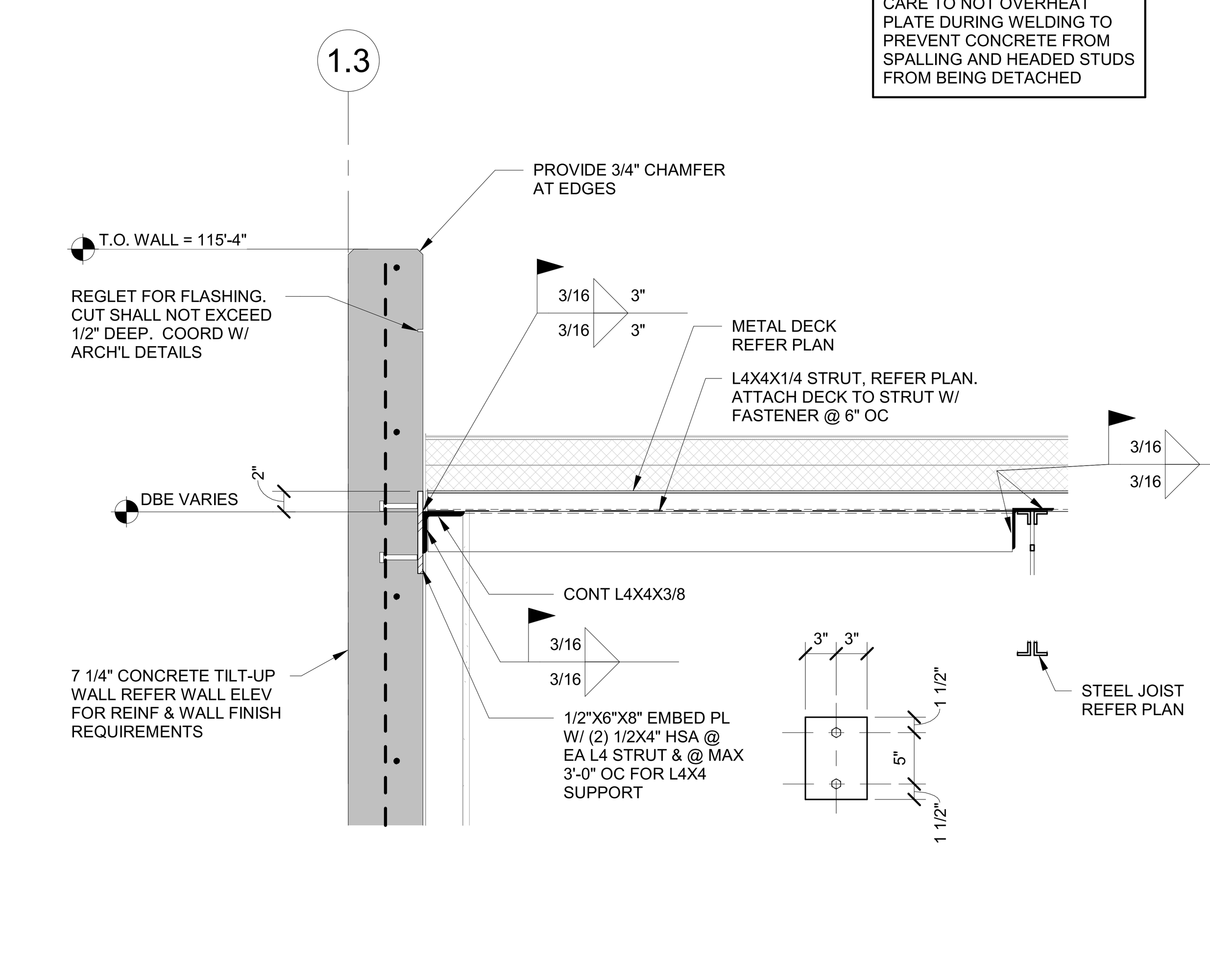
ODOT OSU MULTIPUPOSE FACILITY
STILLWATER, OK

SHEET
FOUNDATION DETAILS

SHEET
S4.2

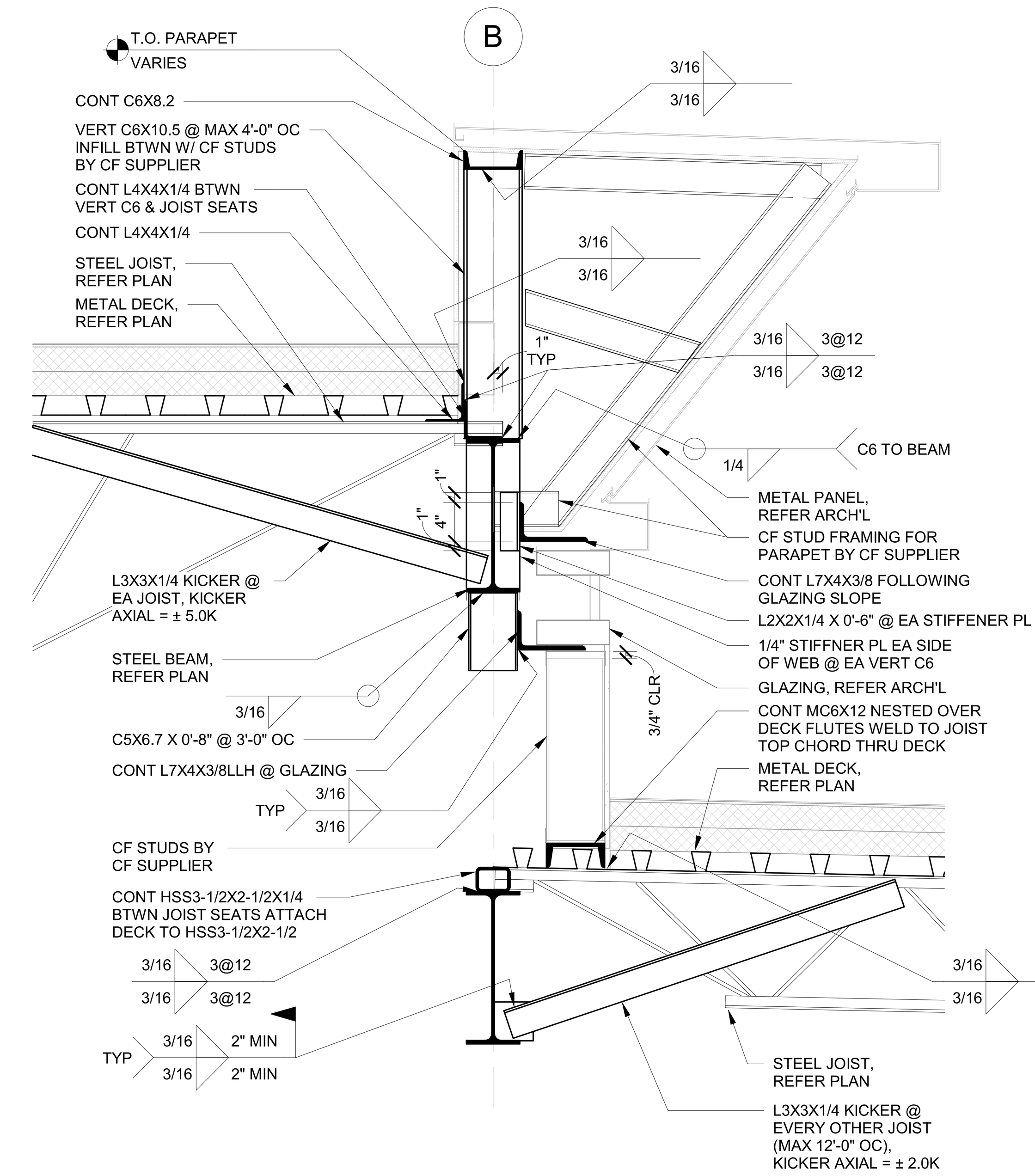


1 FRAMING DETAIL AT TILT-UP WALL PANEL
SCALE : 1" = 1'-0" 1/ S2.3

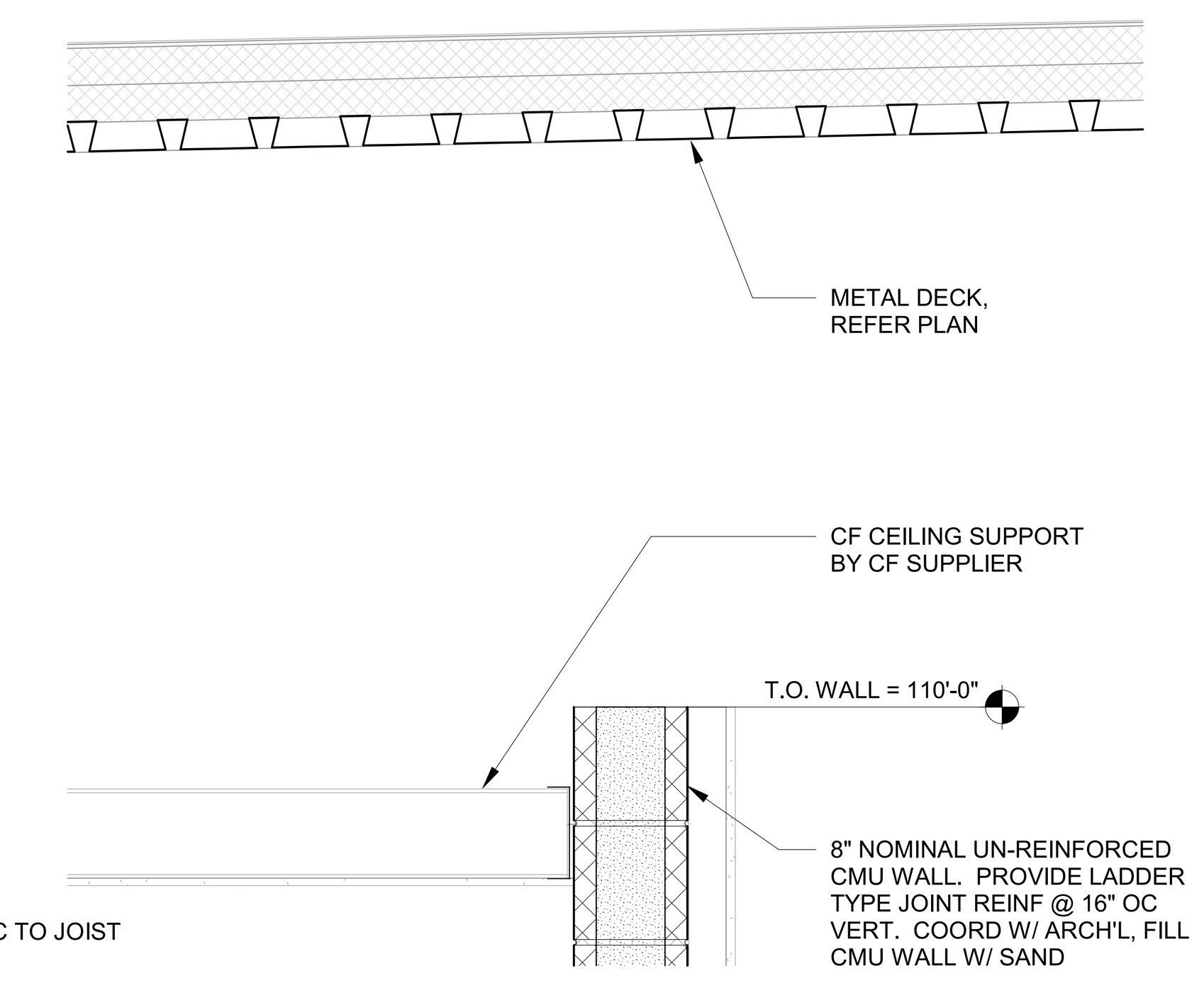


CONTRACTOR NOTE:
CONTRACTOR SHALL TAKE CARE TO NOT OVERHEAT PLATE DURING WELDING TO PREVENT CONCRETE FROM SPALLING AND HEADED STUDS FROM BEING DETACHED

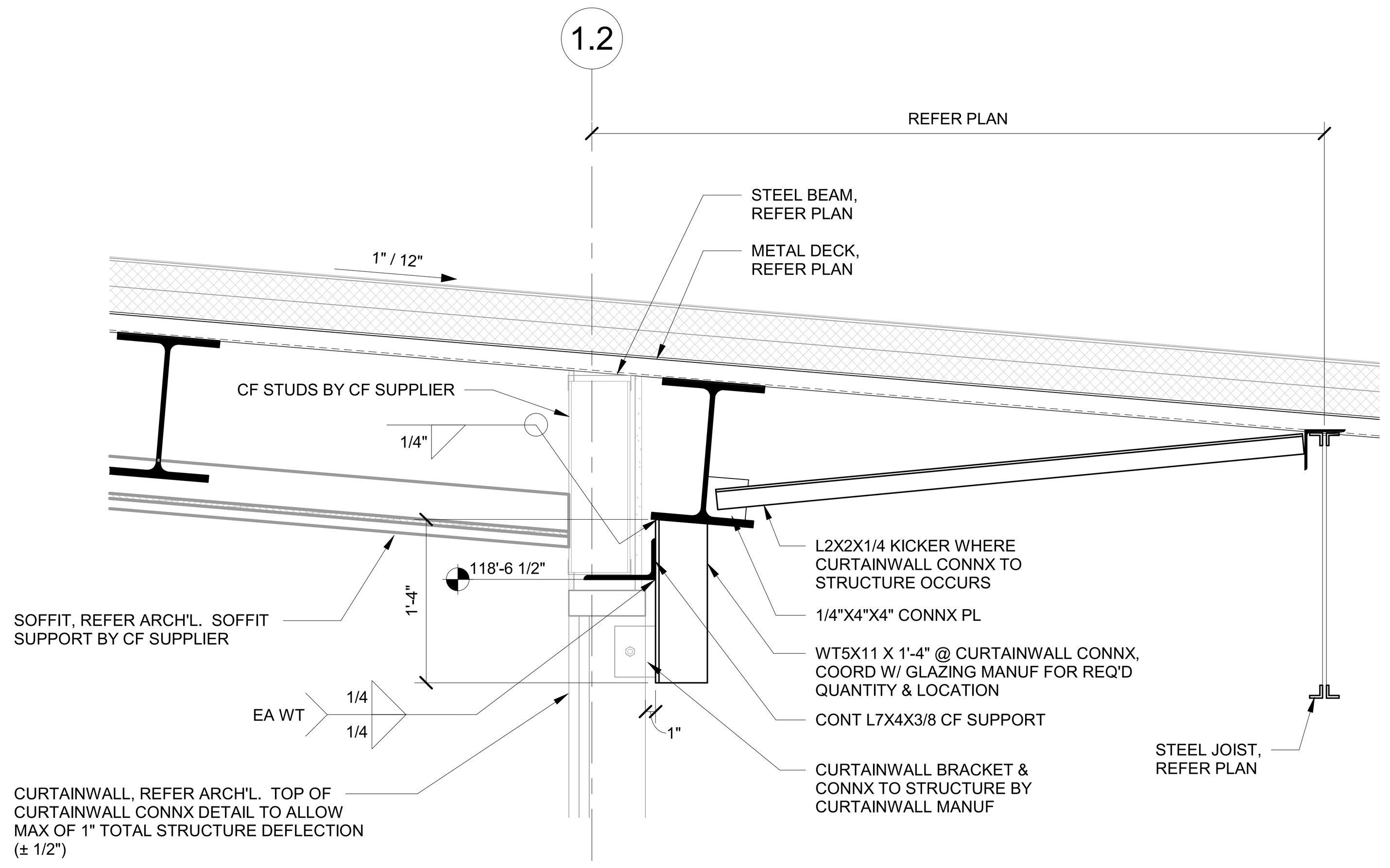
2 FRAMING DETAIL AT TILT-UP WALL PANEL
SCALE : 1" = 1'-0" 1/ S2.3



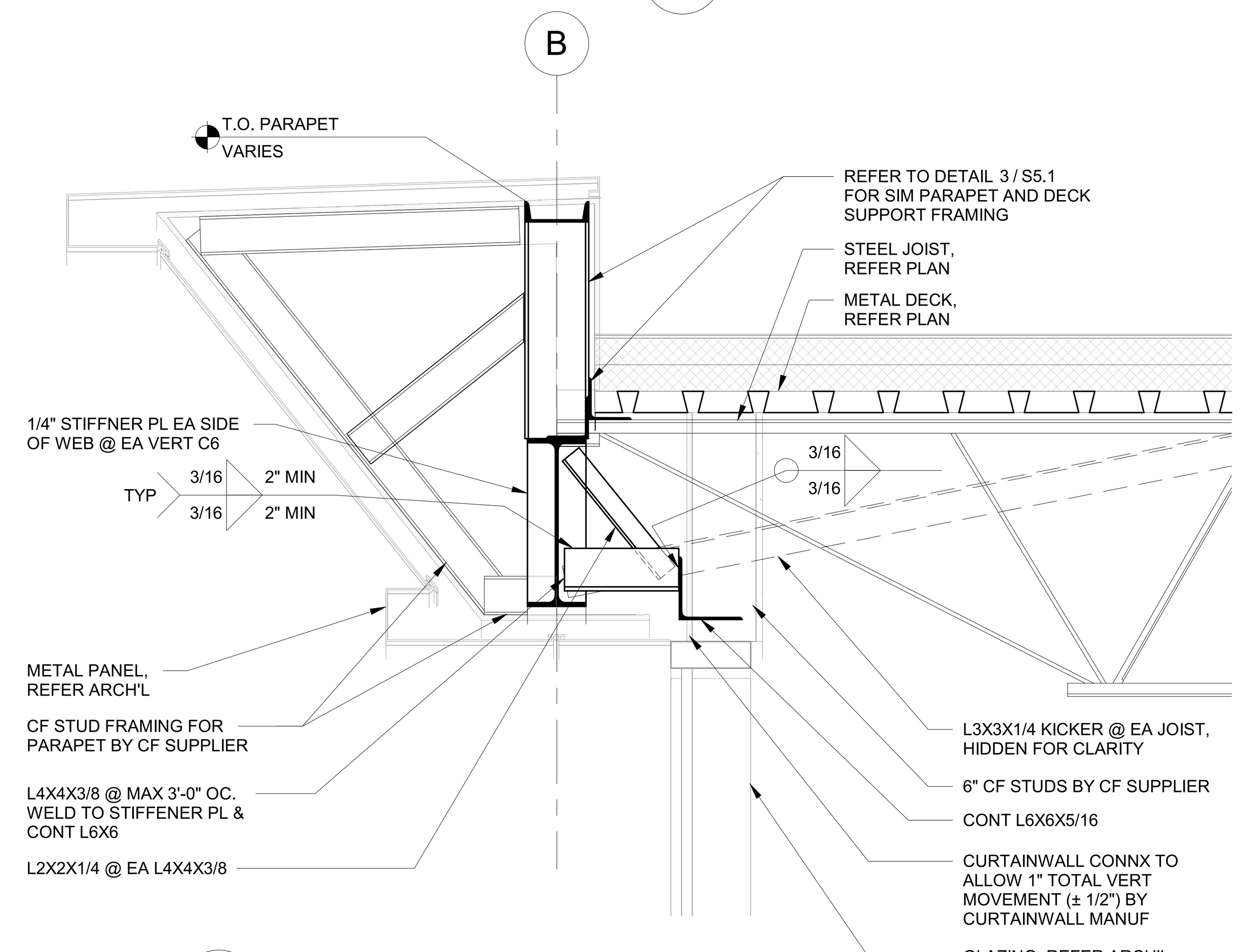
3 FRAMING DETAIL
SCALE : 1" = 1'-0" 1/ S2.3



4 FRAMING DETAIL AT CMU WALL
SCALE : 1" = 1'-0" 1/ S2.3



5 FRAMING DETAIL AT CURTAINWALL HEAD
SCALE : 1" = 1'-0" 1/ S2.3



6 FRAMING DETAIL
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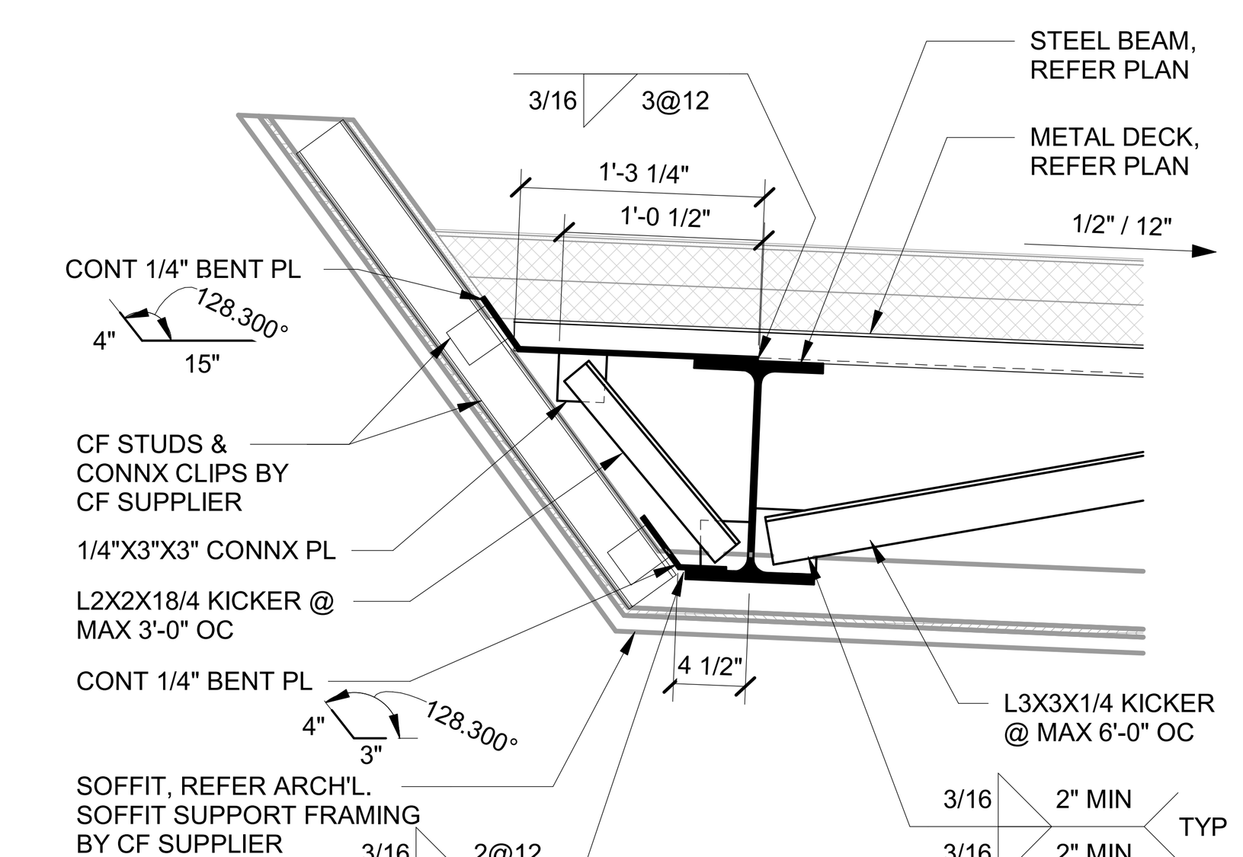
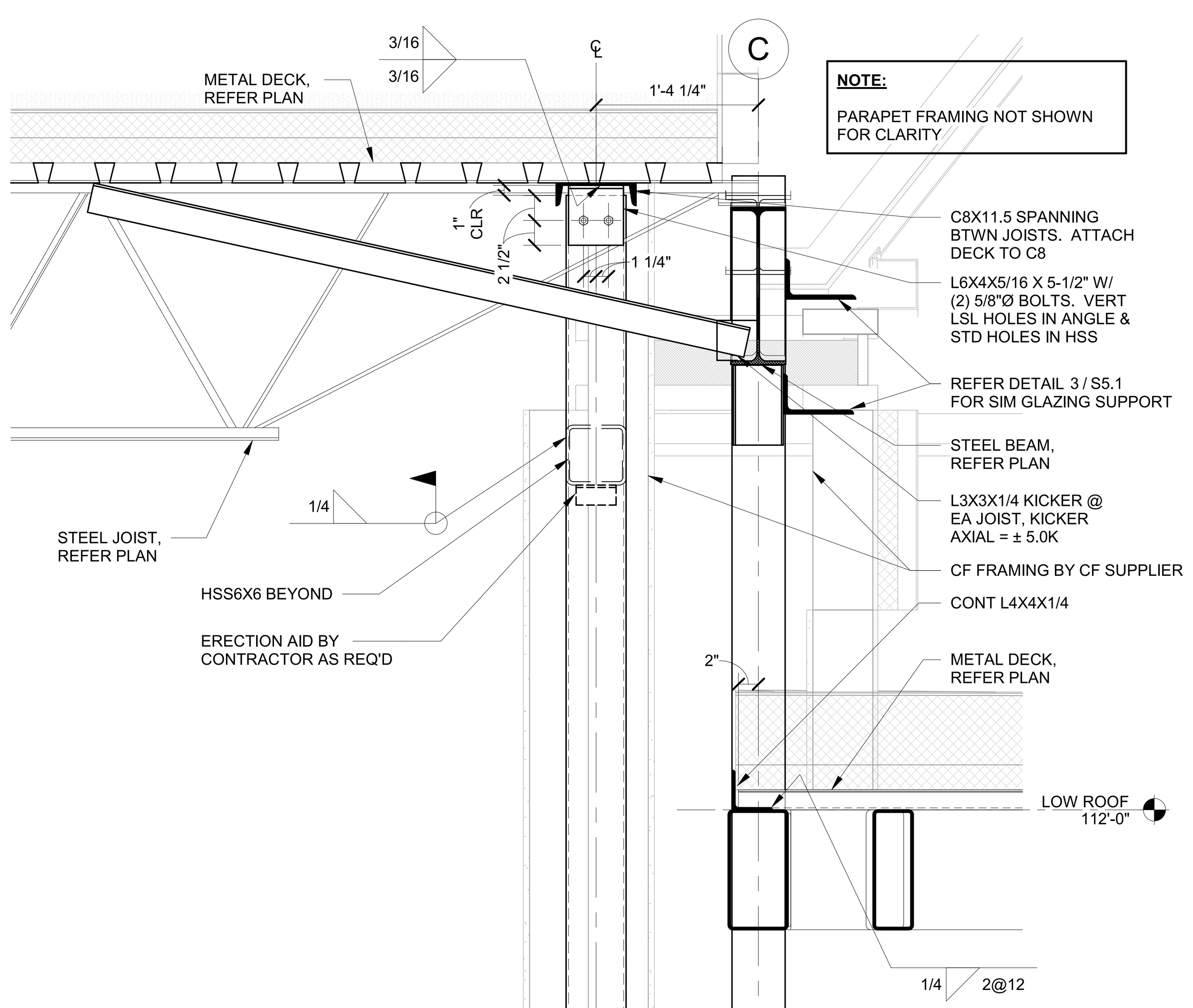
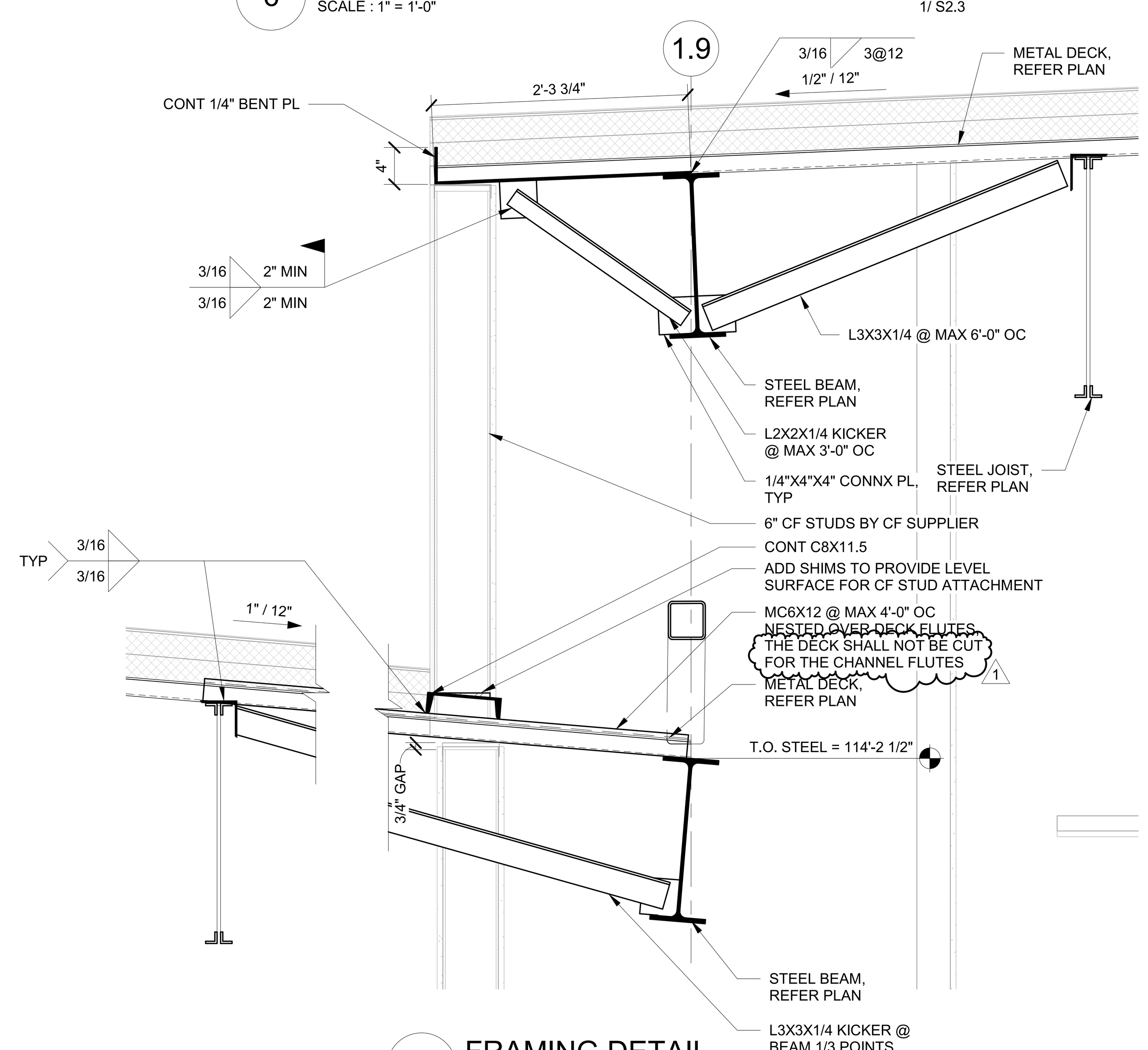


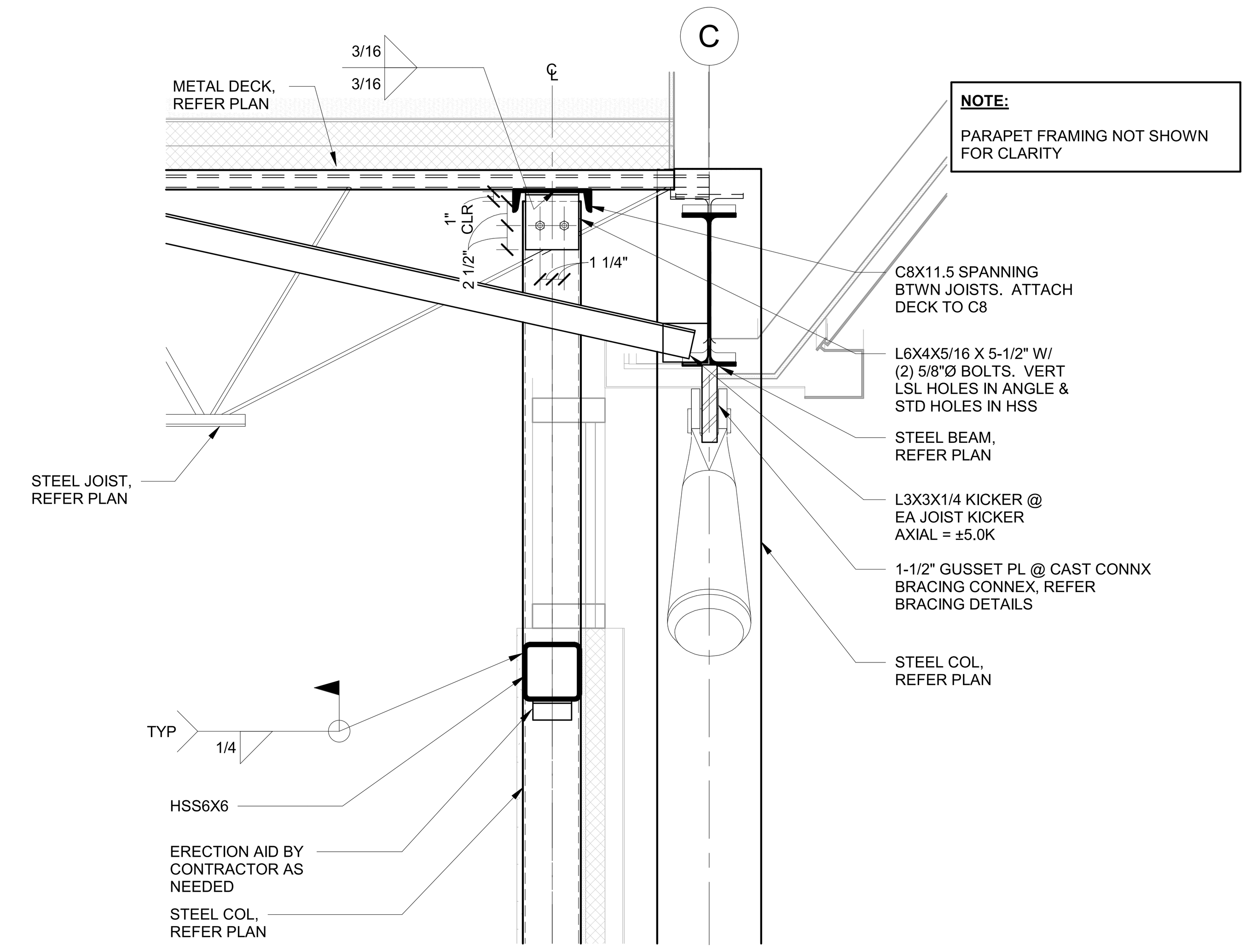
7 FRAMING DETAIL
SCALE : 1" = 1'-0" 1/ S2.3



8 FRAMING DETAIL
SCALE : 1" = 1'-0" 1/ S2.3



9 FRAMING DETAIL
SCALE : 1" = 1'-0" 1/ S2.3



10 FRAMING DETAIL
SCALE : 1" = 1'-0" 1/ S2.3

CEC CORPORATION
OKLAHOMA Transportation
JOHN SCHAEFER 01-21-2026 33631 LICENSED PROFESSIONAL ENGINEER OKLAHOMA

REVISION HISTORY

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1	ADDENDUM 1	01/21/2026

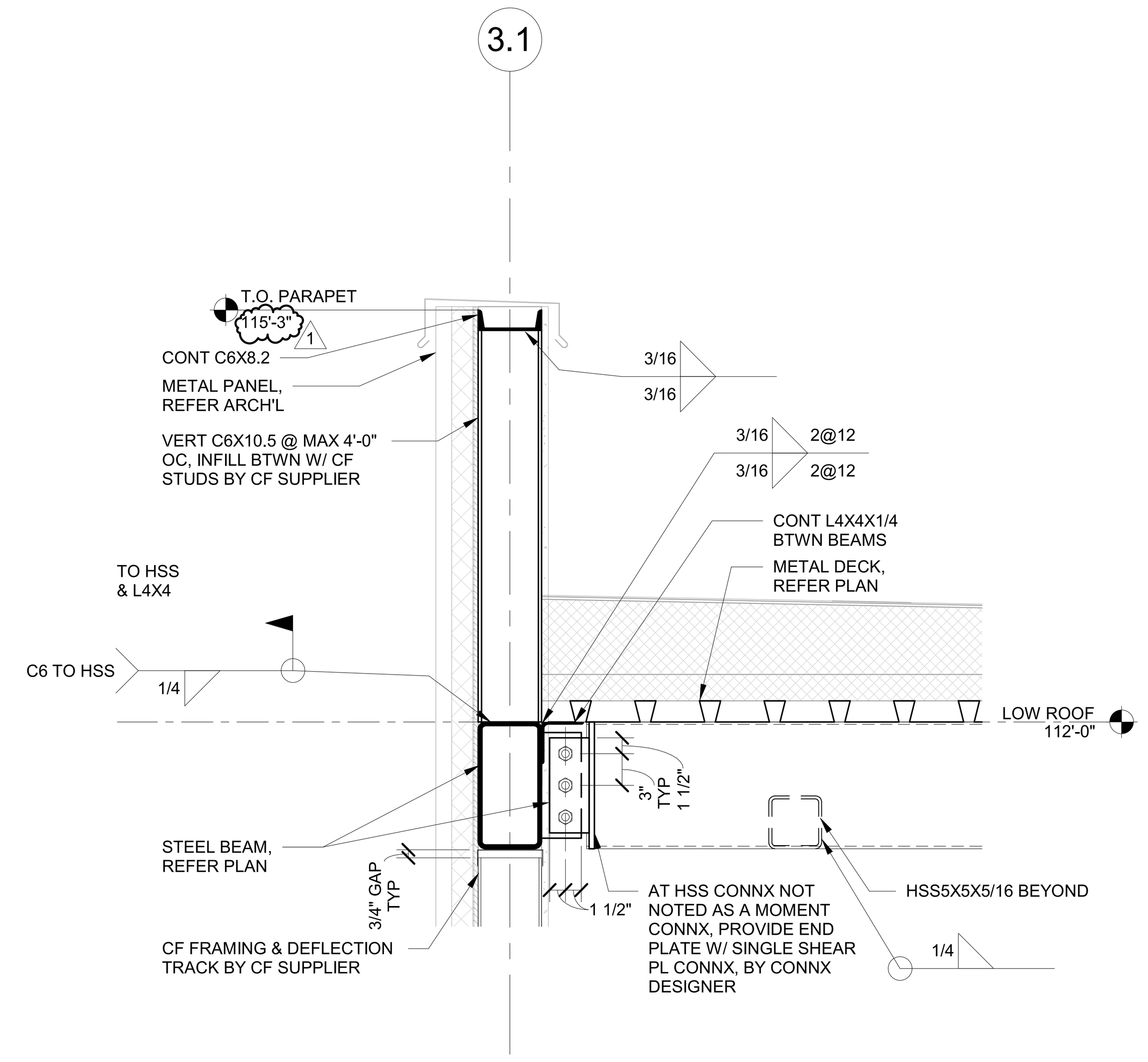
SUBMITTAL: CONSTRUCTION DOCUMENTS
DATE: 09/12/2025
PROJECT NO: 221001
DESIGNED BY: JS
DRAWN BY: NB
REVIEWED BY: JS
SCALE: AS INDICATED

ODOT OSU MULTIPUPOSE FACILITY
STILLWATER, OK

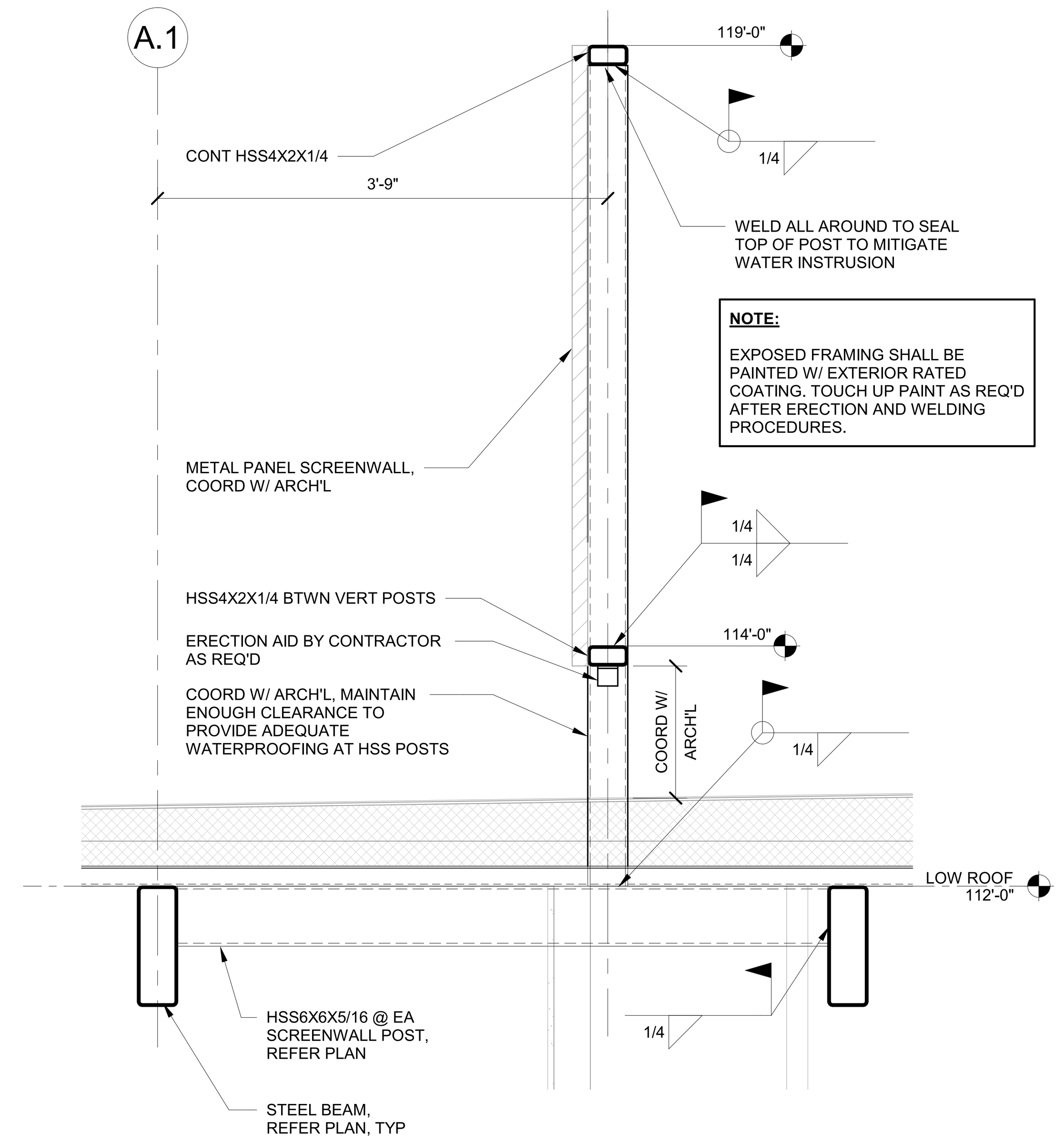
SHEET
FRAMING DETAILS

SHEET
S5.1

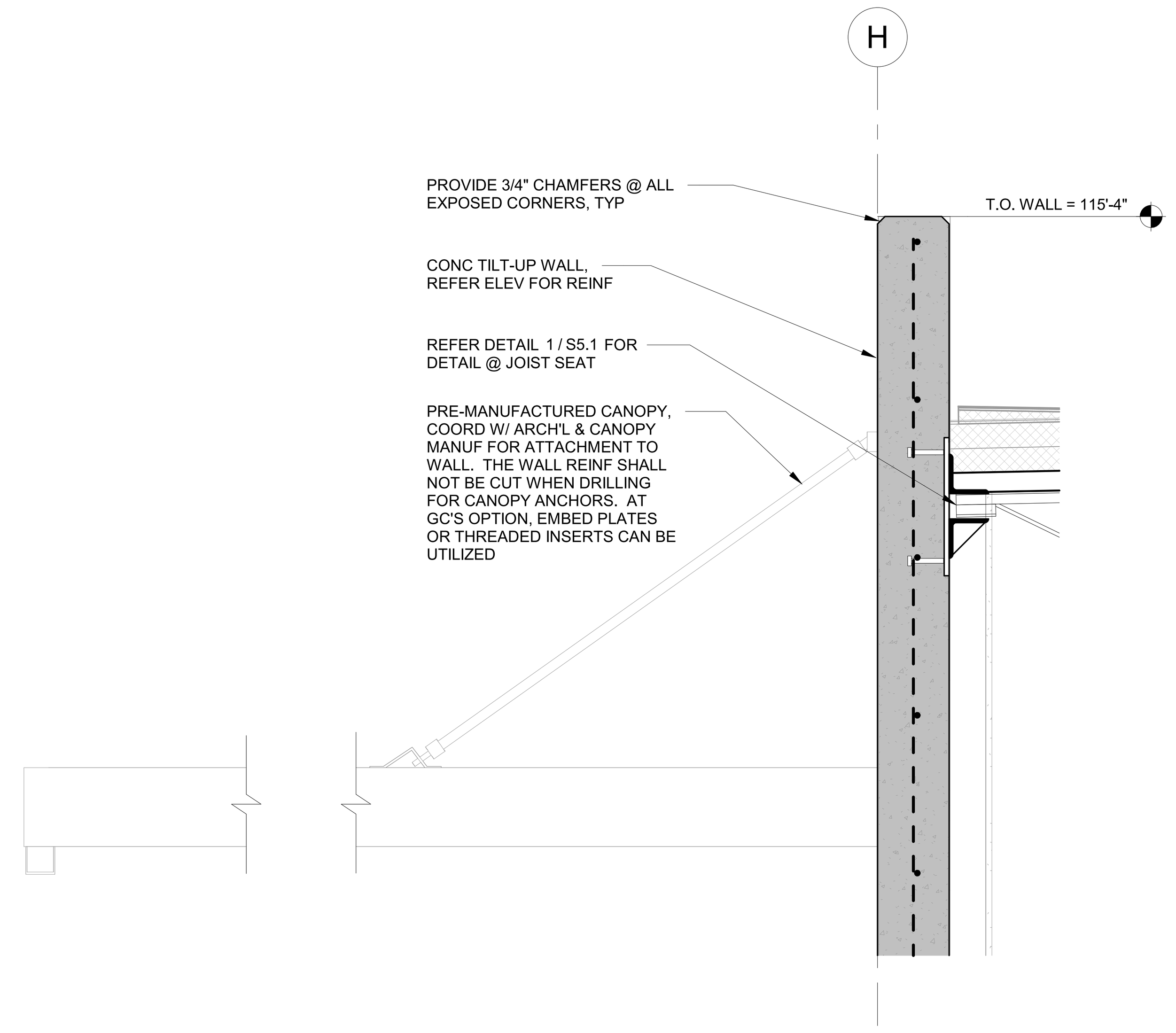
PLOT DATE: 1/21/2026 8:08:11 AM



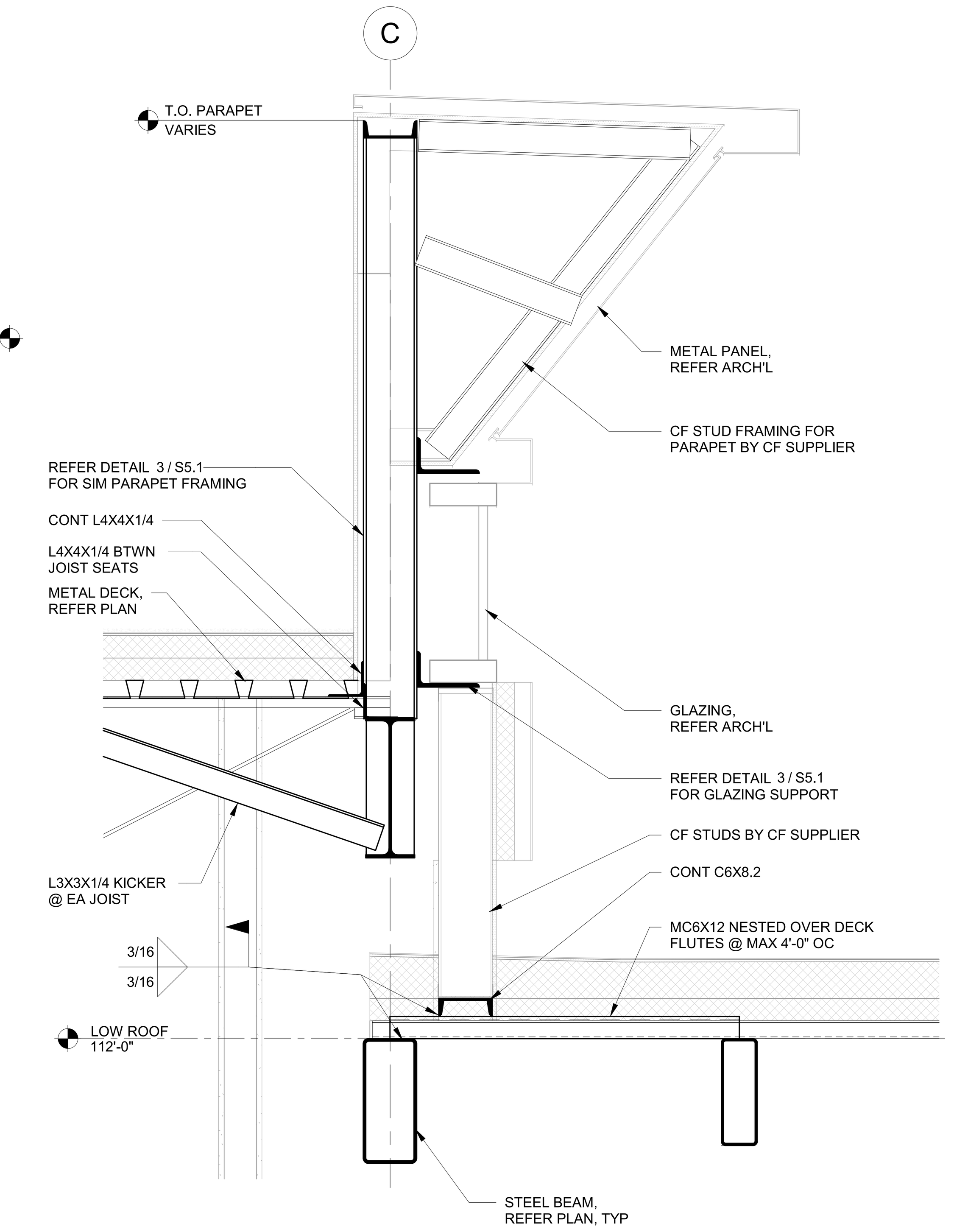
11 FRAMING DETAIL
SCALE : 1" = 1'-0" 1/ S2.3



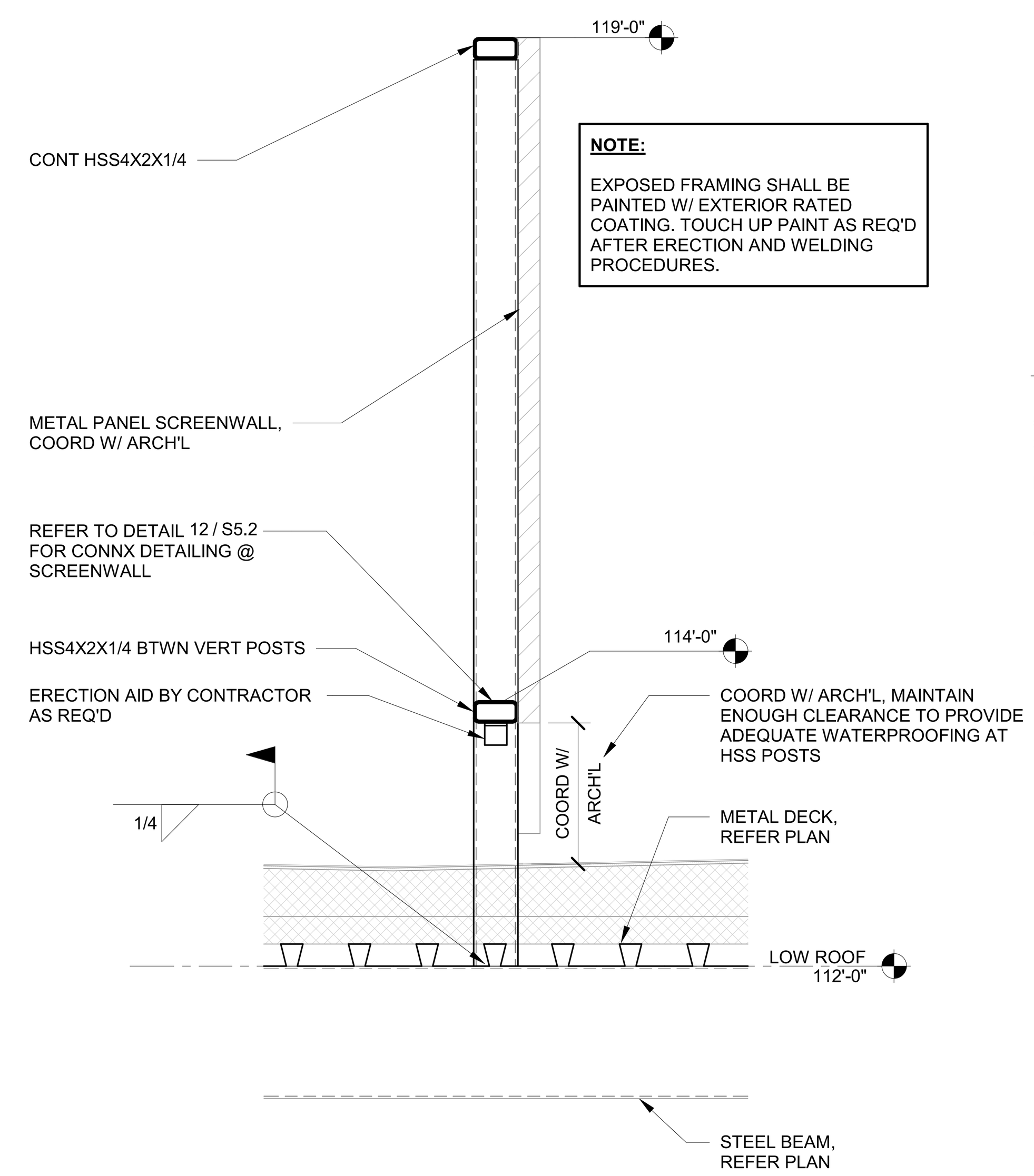
12 FRAMING DETAIL AT ROOF SCREENWALL
SCALE : 1" = 1'-0" 1/ S2.3



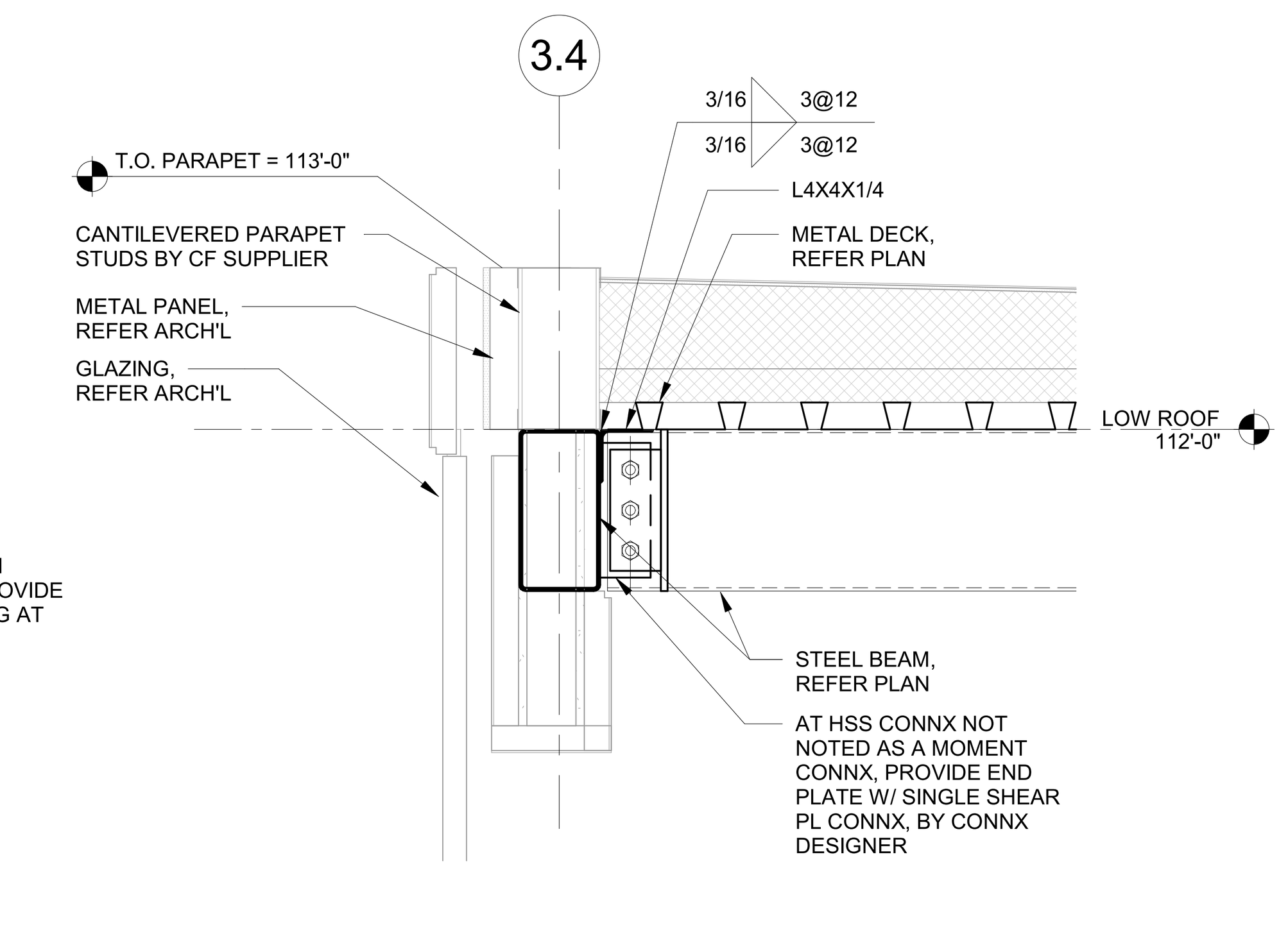
13 FRAMING DETAIL AT PREMANUFACTURED CANOPY
SCALE : 1" = 1'-0" 1/ S2.3



14 FRAMING DETAIL
SCALE : 1" = 1'-0" 1/ S2.3



15 FRAMING DETAIL AT ROOF SCREENWALL
SCALE : 1" = 1'-0" 2/ S2.4



16 FRAMING DETAIL
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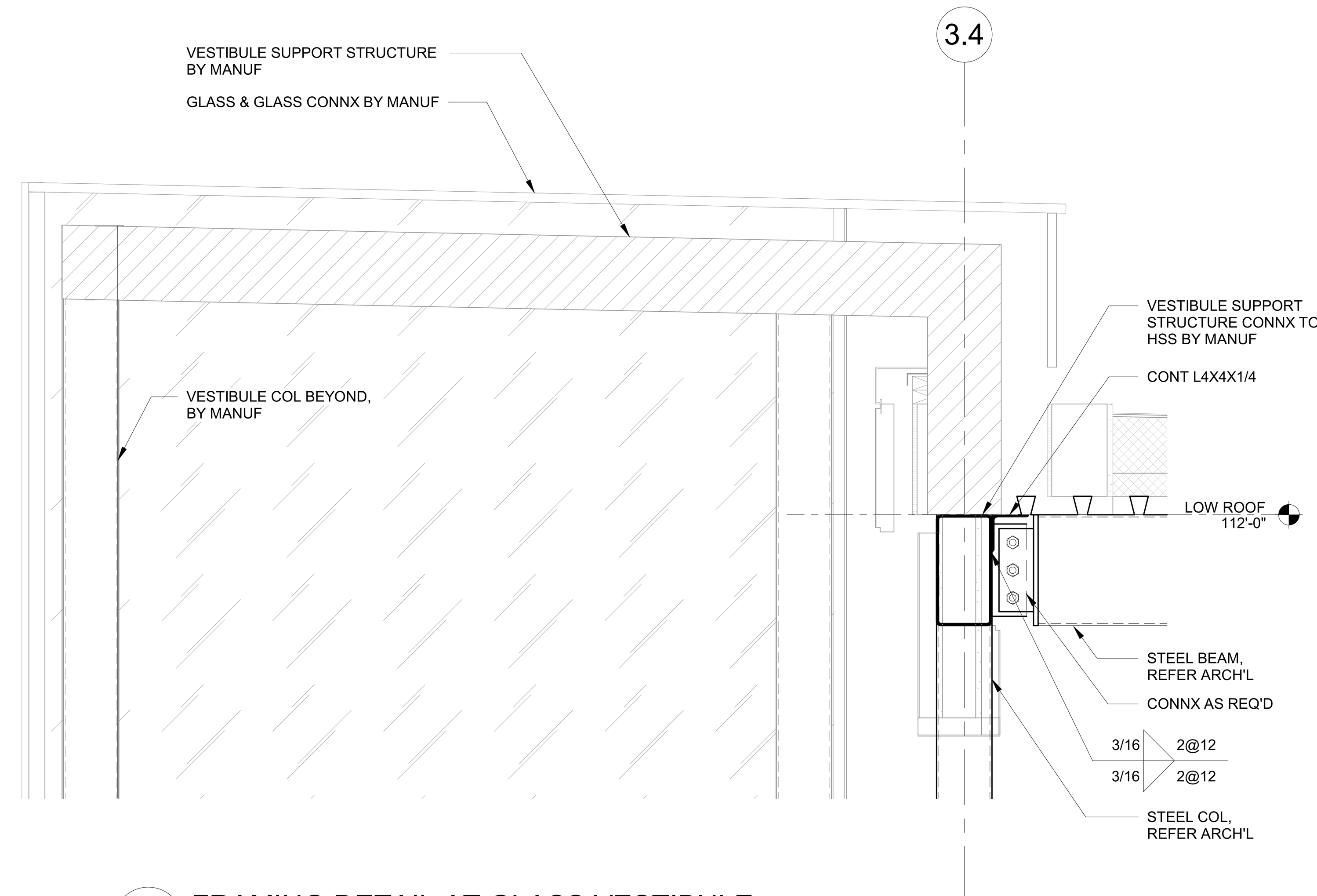
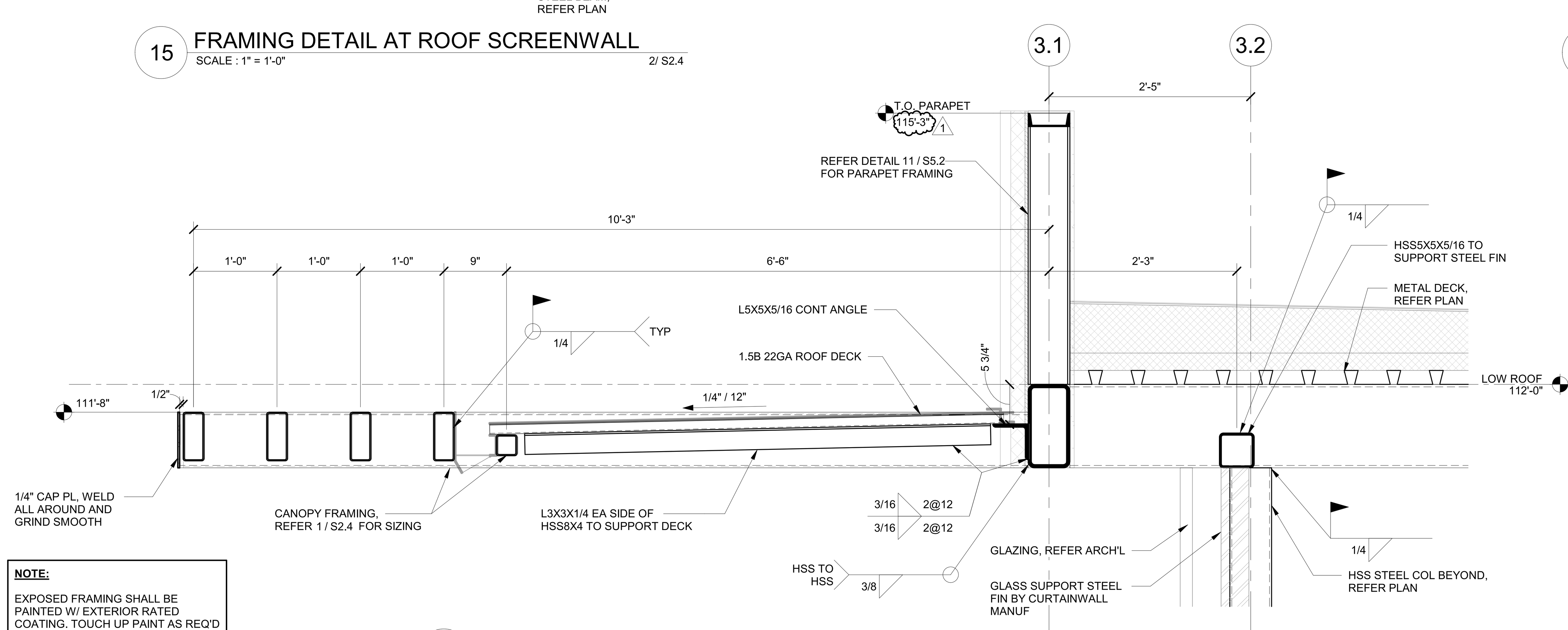


17 FRAMING DETAIL AT GLASS VESTIBULE
SCALE : 1" = 1'-0" 1/ S2.3



18 FRAMING DETAIL AT THE NORTH CANOPY
SCALE : 1" = 1'-0" 1/ S2.4

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OKLAHOMA Transportation

JOHN SCHAEFER 33631 01-21-2026
LICENSED PROFESSIONAL ENGINEER OKLAHOMA

REVISION HISTORY

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	01/21/2026

SUBMITTAL:	CONSTRUCTION DOCUMENTS
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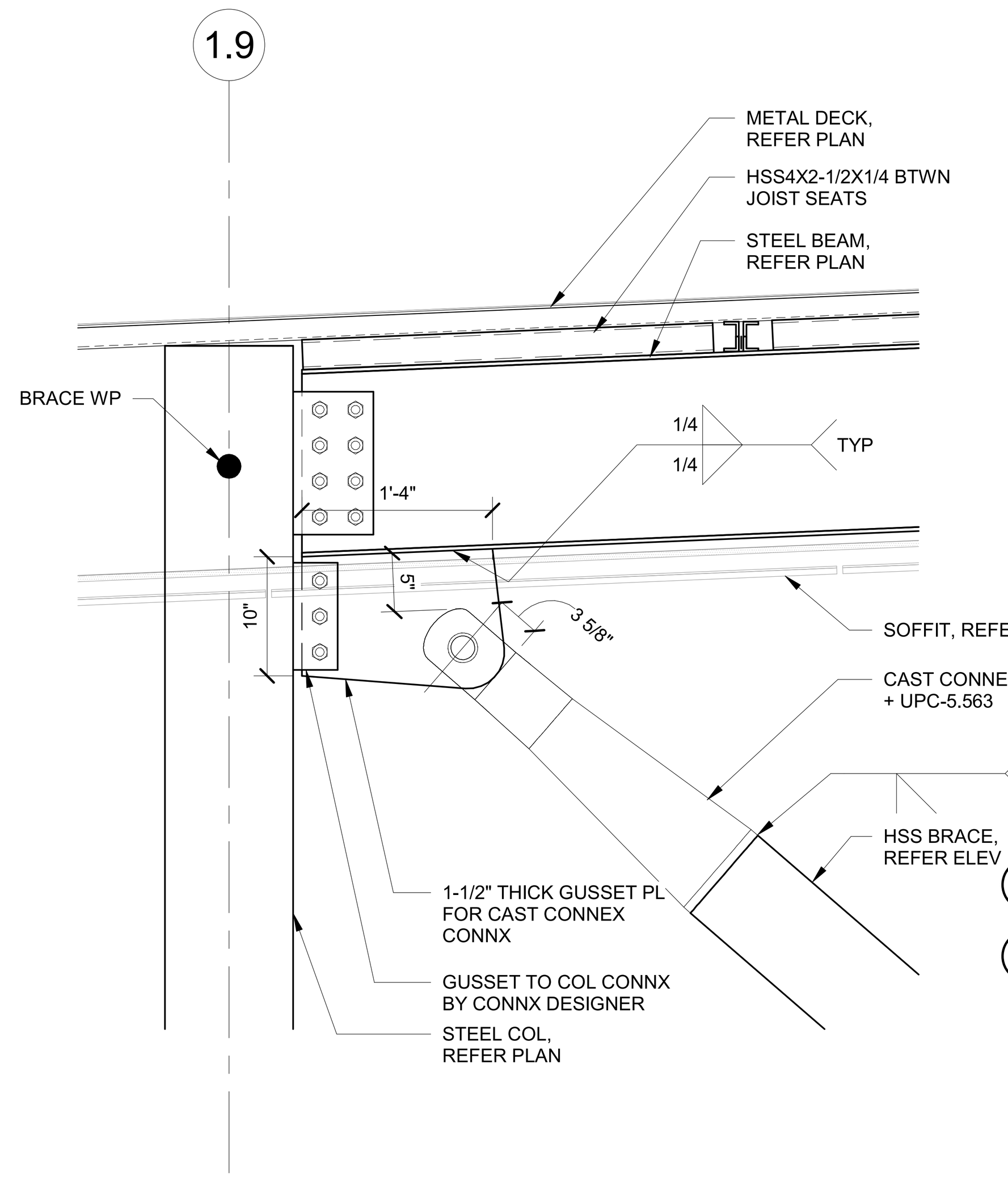
PROJECT NO:	221001
DESIGNED BY:	JS
DRAWN BY:	NB
REVIEWED BY:	JS
SCALE:	AS INDICATED

ODOT OSU MULTIPUPOSE FACILITY
STILLWATER, OK

SHEET
FRAMING DETAILS

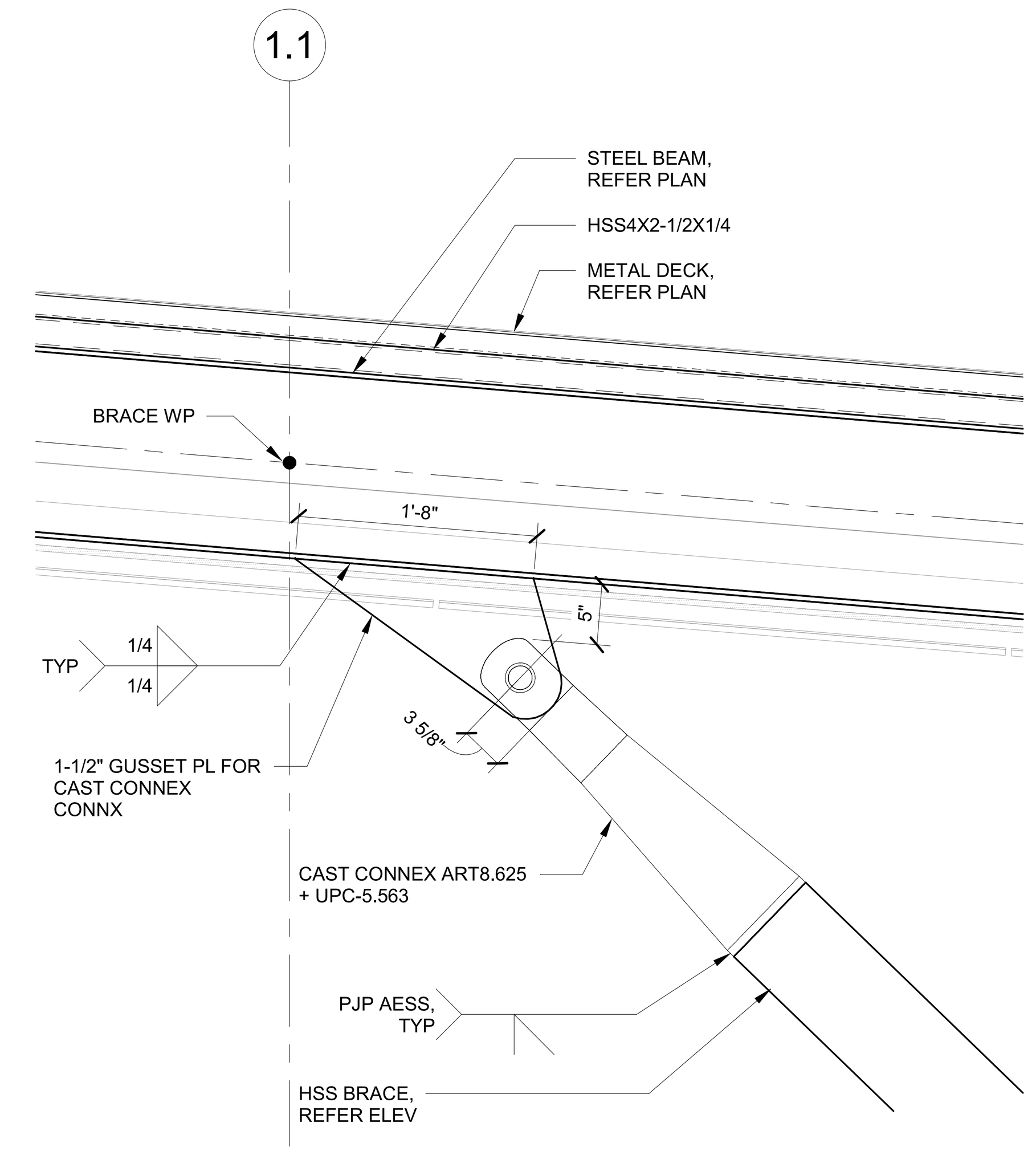
SHEET
S5.2



CAST CONNEX DETAILING NOTE:

- ALL EXPOSED WELDS AT THE CAST CONNEX CONNECTIONS SHALL BE GROUND SMOOTH.

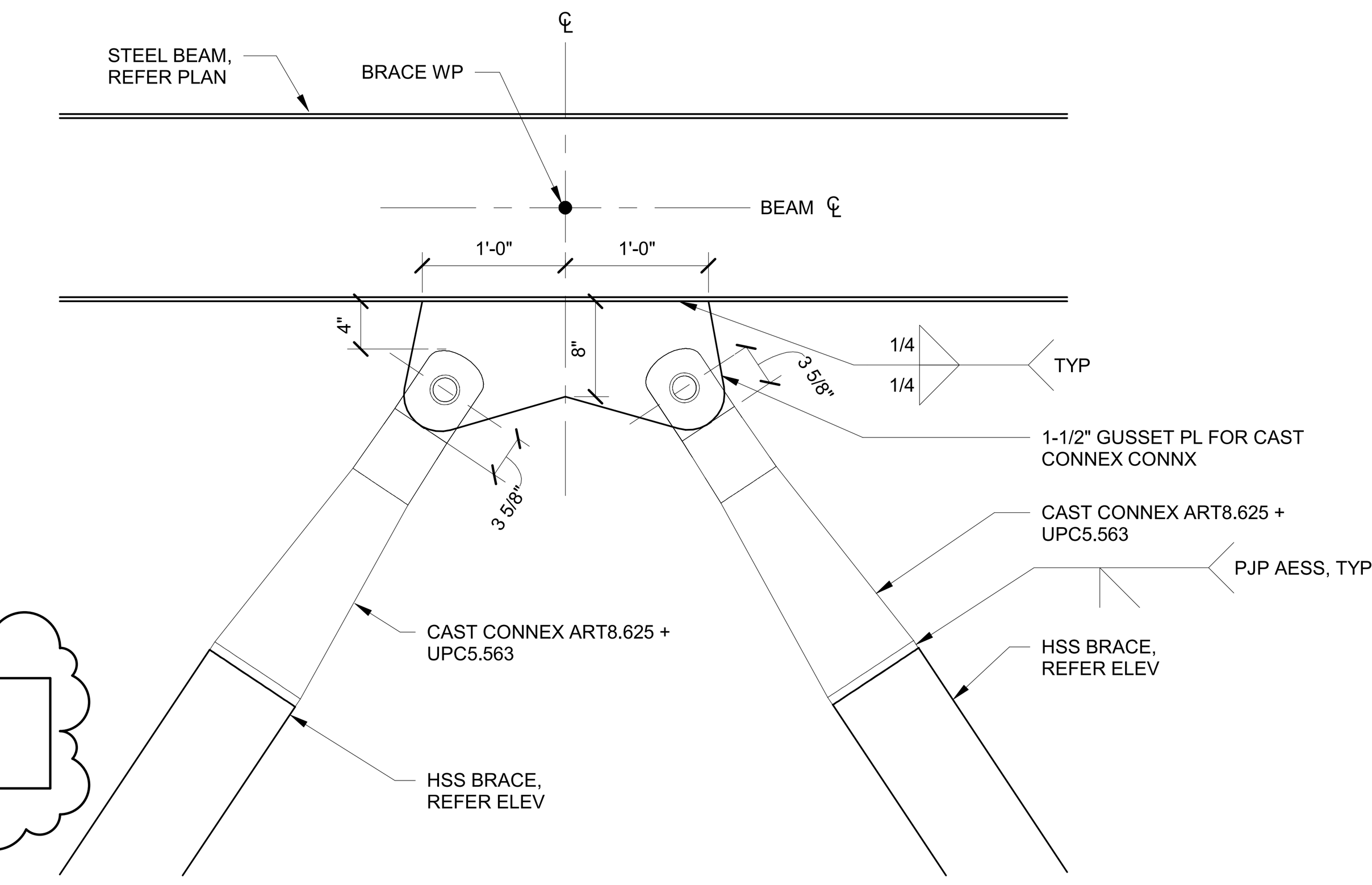
19 FRAMING DETAIL AT CAST CONNEX CONNECTION
SCALE : 1" = 1'-0" 1/ S3.1



CAST CONNEX DETAILING NOTE:

- ALL EXPOSED WELDS AT THE CAST CONNEX CONNECTIONS SHALL BE GROUND SMOOTH.

20 FRAMING DETAIL AT CAST CONNEX CONNECTION
SCALE : 1" = 1'-0"



21 FRAMING DETAIL AT CAST CONNEX CONNECTION
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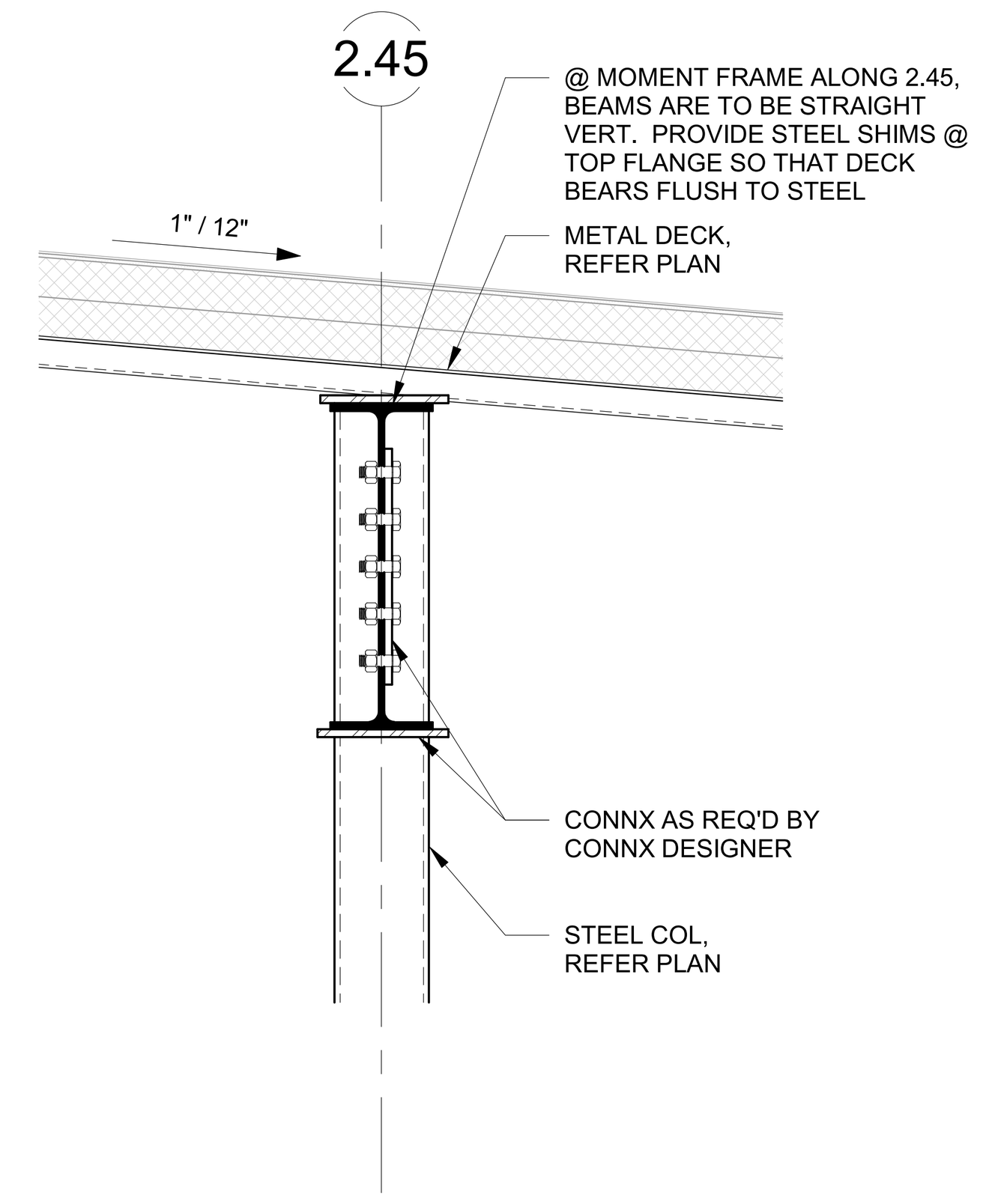

22 FRAMING DETAIL AT MOMENT FRAME
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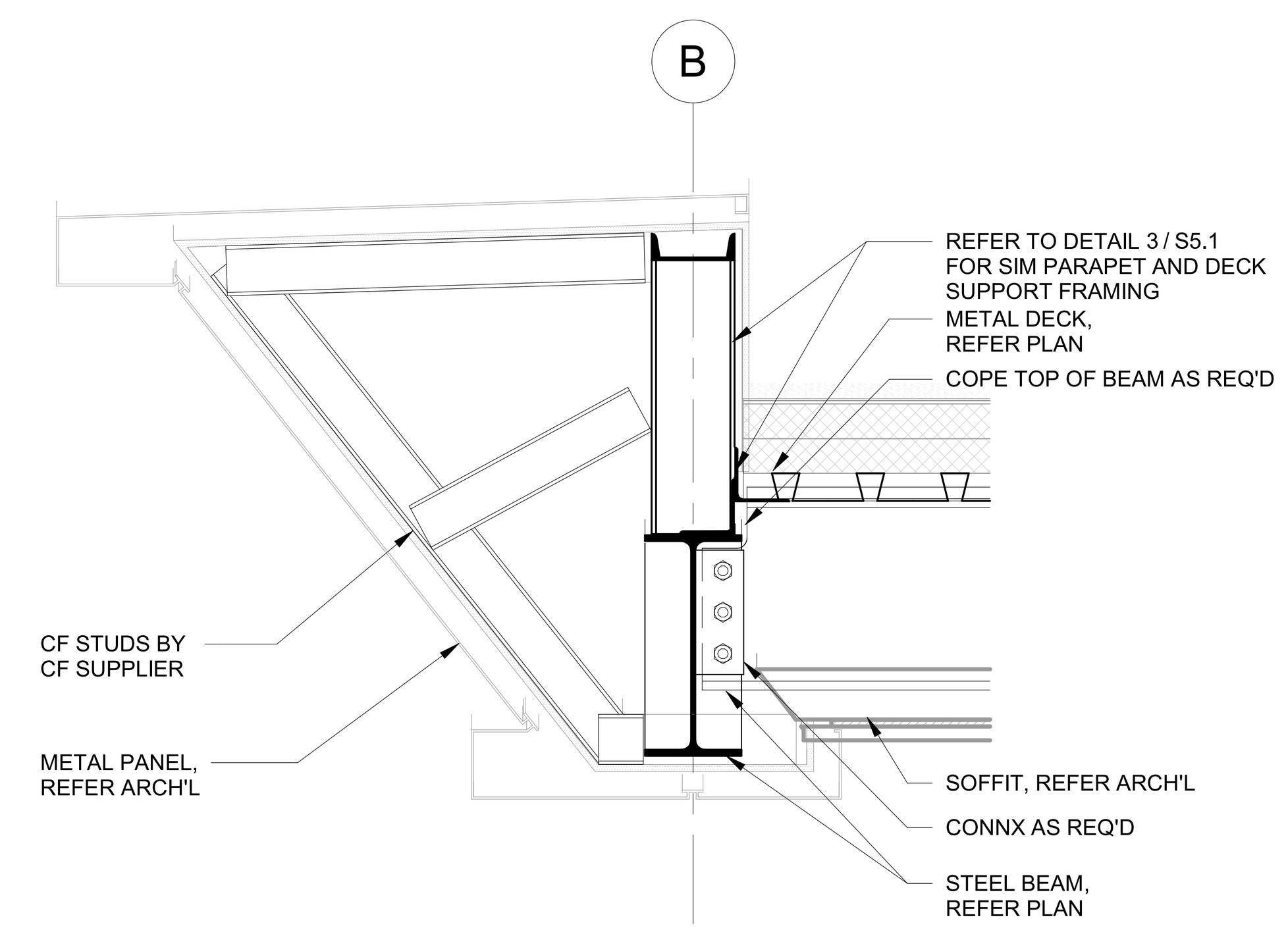

23 FRAMING DETAIL AT PARAPET
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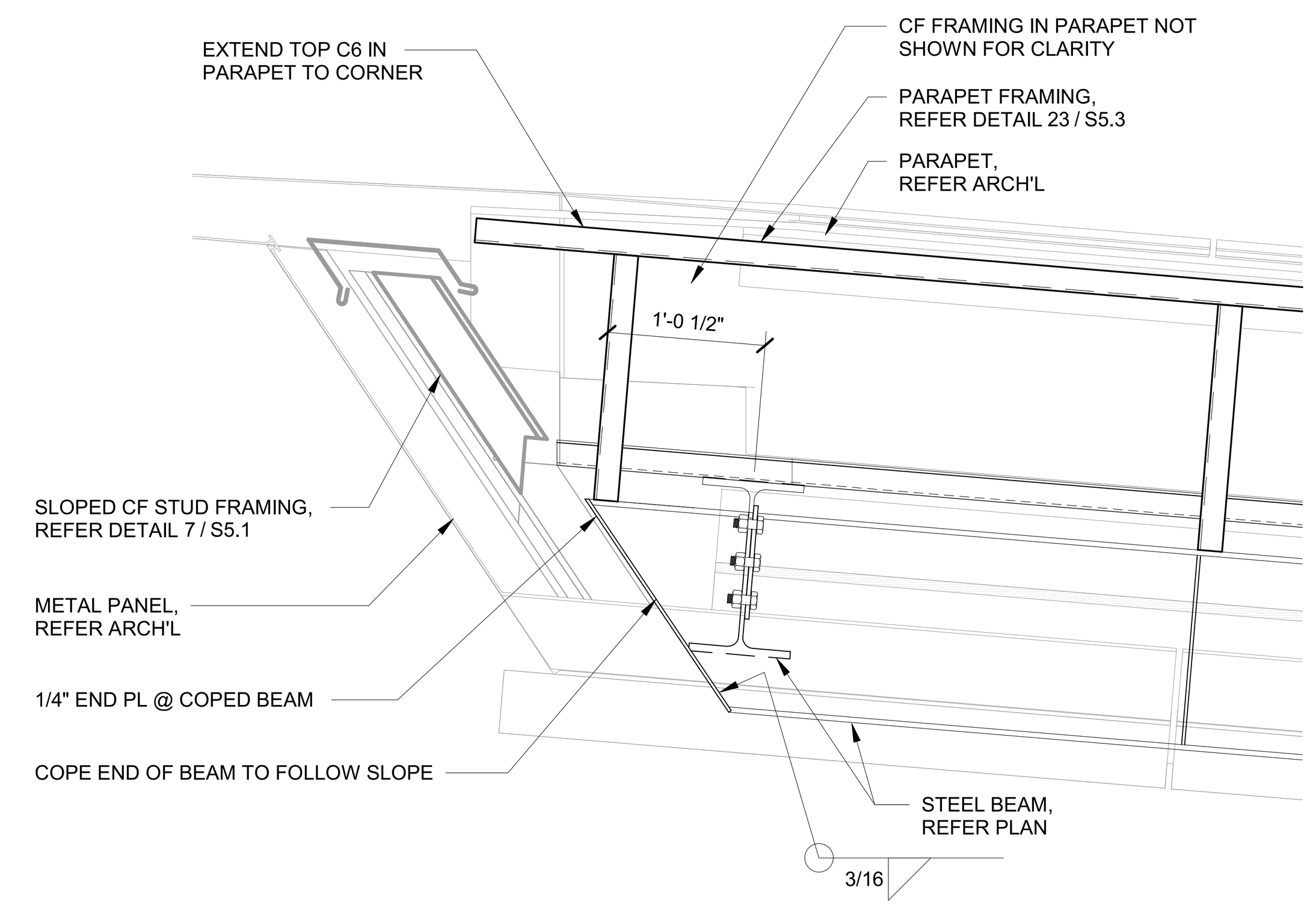
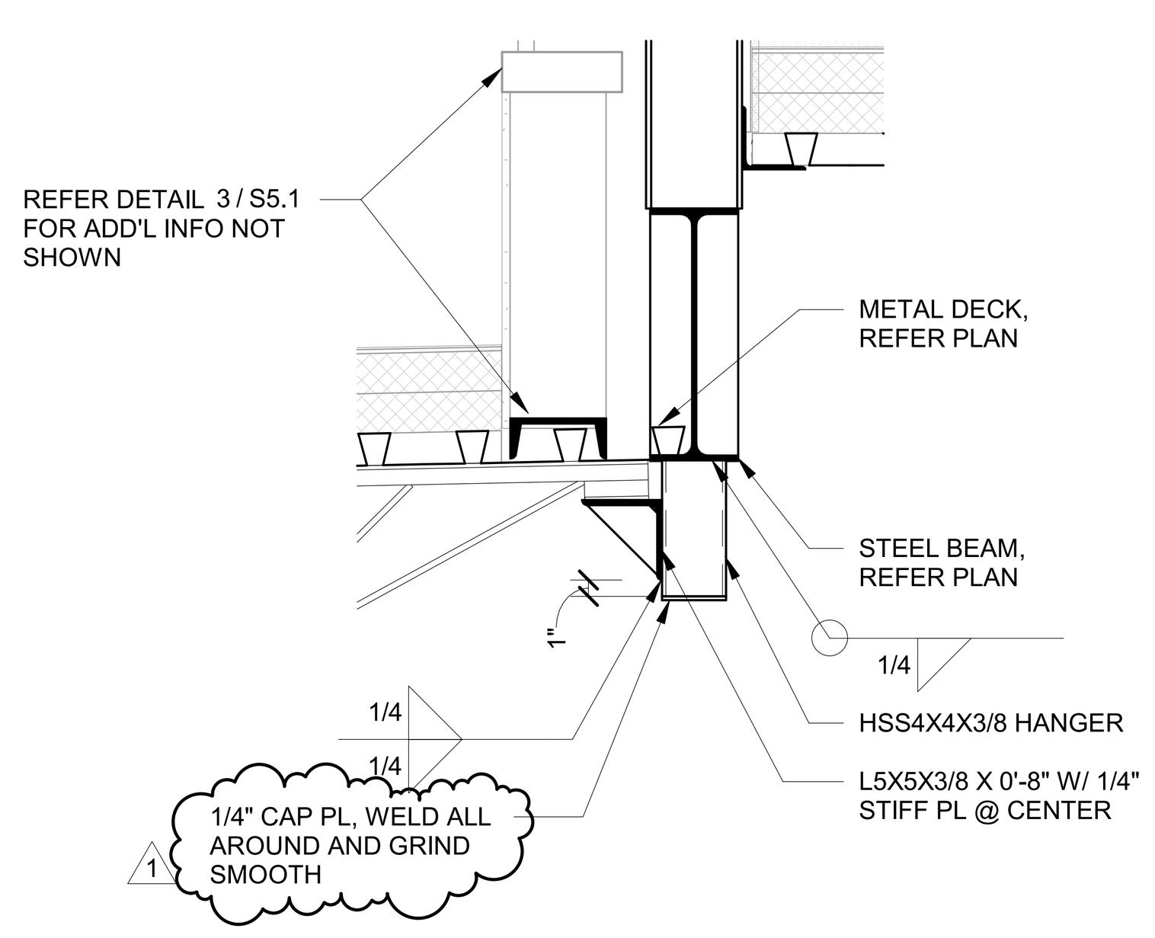
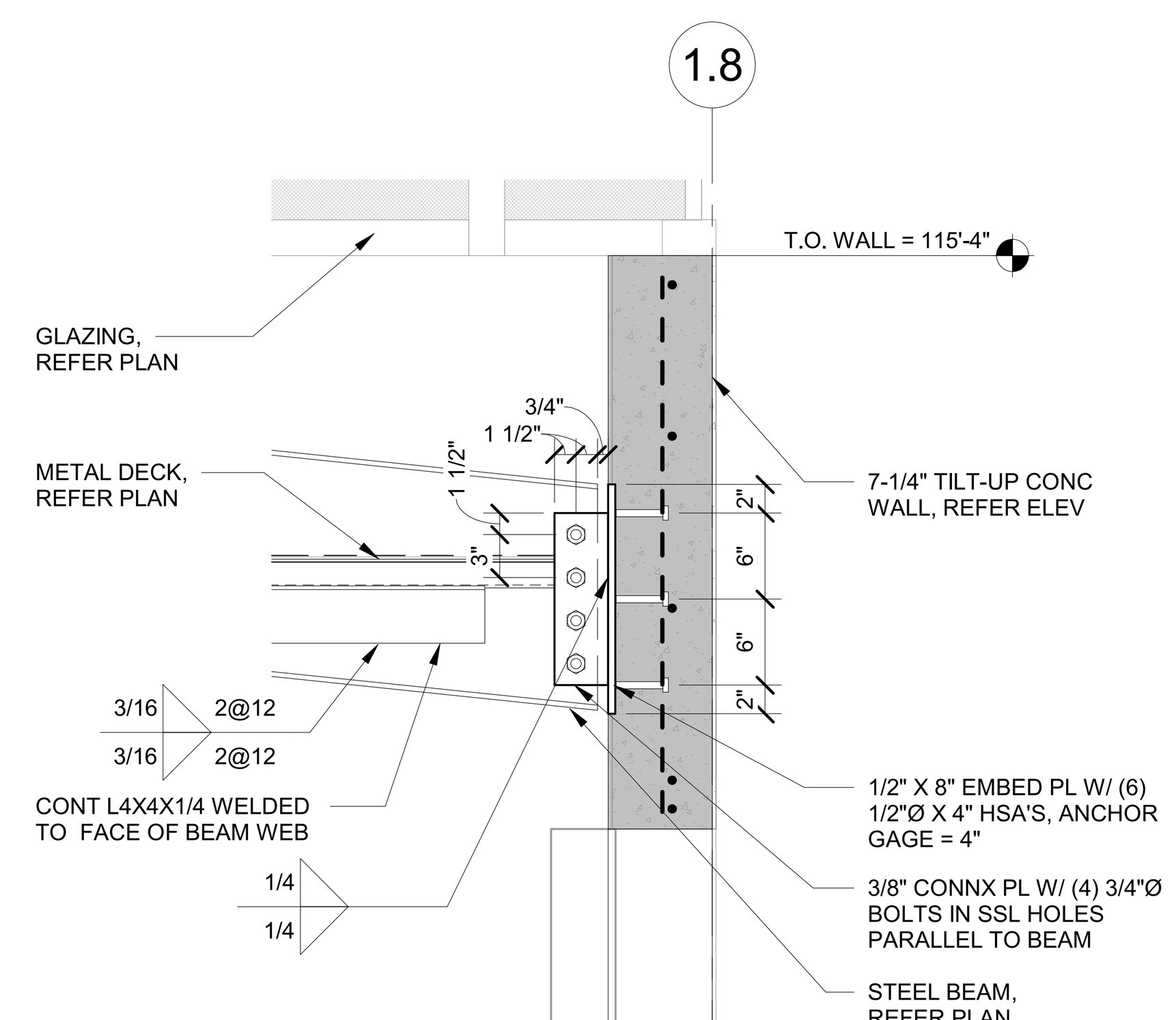


24 FRAMING DETAIL AT PARAPET CORNER
SCALE : 1" = 1'-0" 1/ S2.3



25 FRAMING DETAIL AT LOW ROOF
SCALE : 1" = 1'-0" 1/ S2.3



26 FRAMING DETAIL AT EMBED TO CONCRETE
SCALE : 1" = 1'-0" 1/ S2.3

CEC CORPORATION
OKLAHOMA Transportation

LICENSED PROFESSIONAL ENGINEER
JOHN SCHAEFER
01-21-2026
33631
OKLAHOMA

NO.	DESCRIPTION	DATE
1	ADDENDUM 1	01/21/2026

REVISION HISTORY

SUBMITTAL:	CONSTRUCTION DOCUMENTS
DATE:	09/12/2025
PROJECT NO:	221001
DESIGNED BY:	Designer
DRAWN BY:	Author
REVIEWED BY:	Approver
SCALE:	AS INDICATED

ODOT OSU MULTIPURPOSE FACILITY
STILLWATER, OK

SHEET
FRAMING DETAILS

SHEET
S5.3

PLOT DATE: 1/21/2026 8:06:13 AM

GENERAL NOTES - INTERIOR PARTITIONS

A. STUDS AND FURRING STRIPS SHALL BE SPACED A MAXIMUM OF 16" O.C.
B. WHERE TILE IS INDICATED IN THE ROOM FINISH SCHEDULE AND ELEVATIONS, PROVIDE TILE BACKER BOARD.
C. STUD SIZES SHALL CONFORM TO THE SIZES RECOMMENDED BY THE STUD MANUFACTURER FOR THE PARTITION HEIGHT AT EACH LOCATION.
D. EXTEND GWB TO STRUCTURE ON ALL WALLS THAT DO NOT HAVE A CEILING.
E. PROVIDE DEFLECTION TRACK AT ALL PARTITIONS THAT EXTEND TO STRUCTURE. REFER TO DETAIL A ON SHEET A10.0.
F. REFER TO PARTITION DETAILS COORDINATING WITH PARTITION TYPES ON SHEET A10.0.
G. ALL PARTITIONS WITH SOUND-ATTENUATION BLANKETS ARE TO BE CONSIDERED ACOUSTICAL PARTITIONS. SEAL TOP AND BOTTOM AND SEAL ALL PENETRATIONS TO INCLUDE DUCTWORK, PIPING, AND CONDUIT.
H. FOR PARTITIONS THAT ABUT CEILING, EXTEND GWB 6" ABOVE CEILING.
I. WALL PARTITION TAG ONLY REFERS TO WALL ASSEMBLY & NOT TO WALL FINISHES.
J. REFER TO FINISH SCHEDULE & INTERIOR ELEVATIONS FOR EXTENTS OF FINISHES.

PARTITION TYPE

1. STUD WALL
2. FURRING WALL
3. CMU & STUD WALL

E
1A3
S

PARTITION EXTENDS TO STRUCTURE
PARTITION EXTENDS 6" ABOVE CEILING
NOMINAL CORE THICKNESS (I.E. STUD, CMU, CONCRETE STRUCTURE)
WITH SOUND-ATTENUATION BLANKET
WITHOUT SOUND-ATTENUATION BLANKET

PARTITION TYPE MODIFICATIONS

A. 5/8" GWB EACH SIDE
B. 5/8" GWB SINGLE SIDE
C. NONE

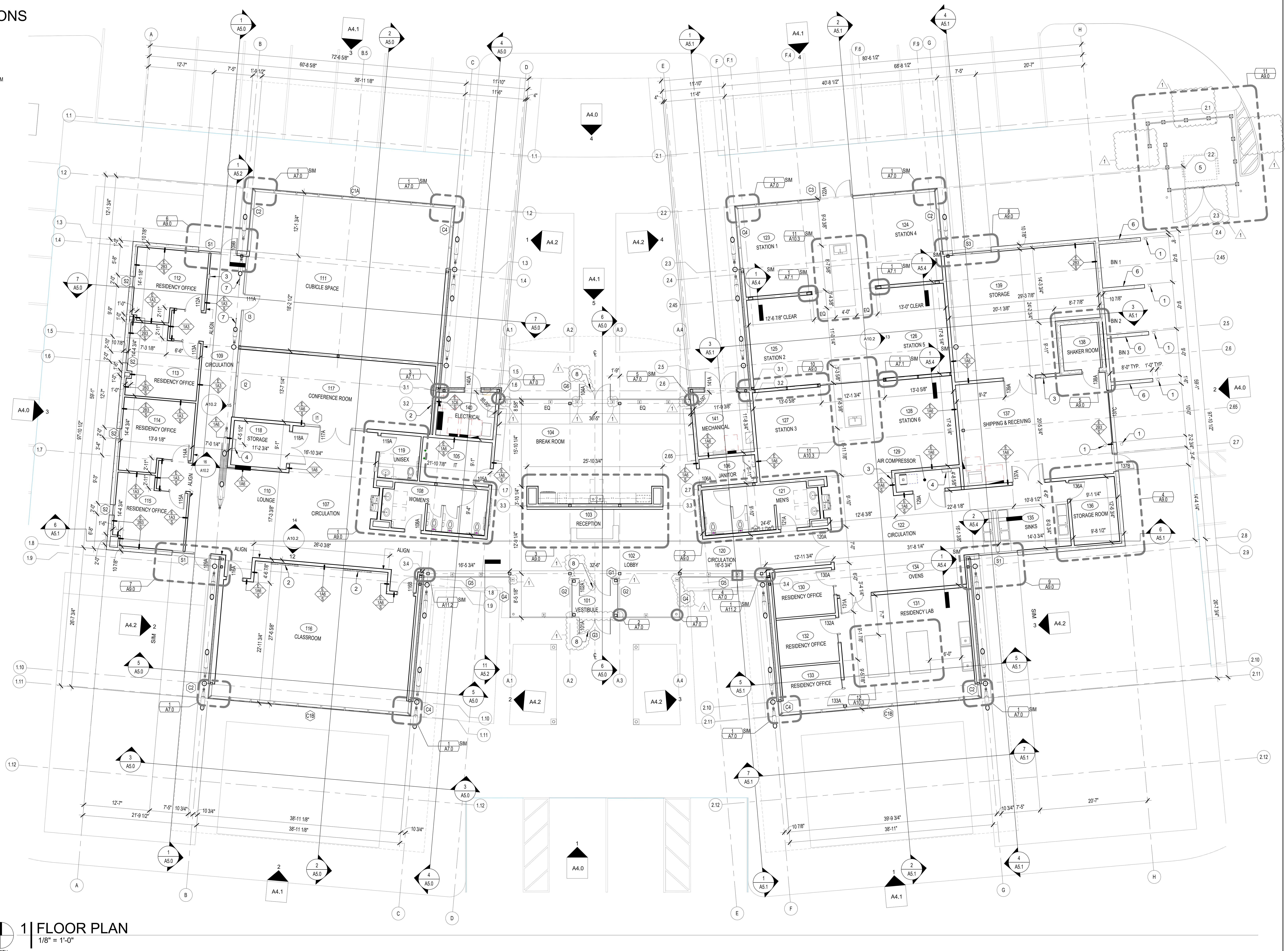
WALL TYPE	SIZE	DESIGNATION
STUD	2 1/2" 3 5/8" 6" 8"	2 3 6 8
FURRING WALL	2 1/2" 3 5/8"	2 3
CMU	7 5/8"	8

LEGEND - FLOOR PLAN

1t — GLAZING TAG
PARTITION TAG (REF. PARTITION LEGEND)
WA1 / A1 — EXTERIOR WALL ASSEMBLY
A111 Room name — ROOM TAG
XXX — DOOR & NUMBER

Ⓧ KEYED NOTES - FLOOR PLAN

1. BOLLARD
2. TELEVISION, OFOI
3. FIRE EXTINGUISHER
4. ROOF ACCESS LADDER
5. DUMPSTER, BY OTHERS
6. CAST-IN-PLACE CONCRETE, REF. STRUCTURAL
7. 3/4" POLISHED STAINLESS STEEL RAIL CANE DETECTION, CENTERED BELOW BRACING. REFERENCE INTERIOR ELEVATION FOR MORE INFORMATION.
8. FREESTANDING DOOR PORTAL BY GLAZING MANUFACTURER. (1)



1 FLOOR PLAN
1/8" = 1'-0"

PLOT DATE: 1/20/2026 10:26:00 PM

CEC CORPORATION
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OK CA#: 32 EXP.: 2026-06-30

OKLAHOMA Transportation

STATE OF OKLAHOMA — Joshua S. Hill — 5663 — Oklahoma city, Oklahoma — LICENSED ARCHITECT — 01/21/2026

REVISION HISTORY

NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	01-21-2026

SUBMITTAL:	CONSTRUCTION DOCUMENTS
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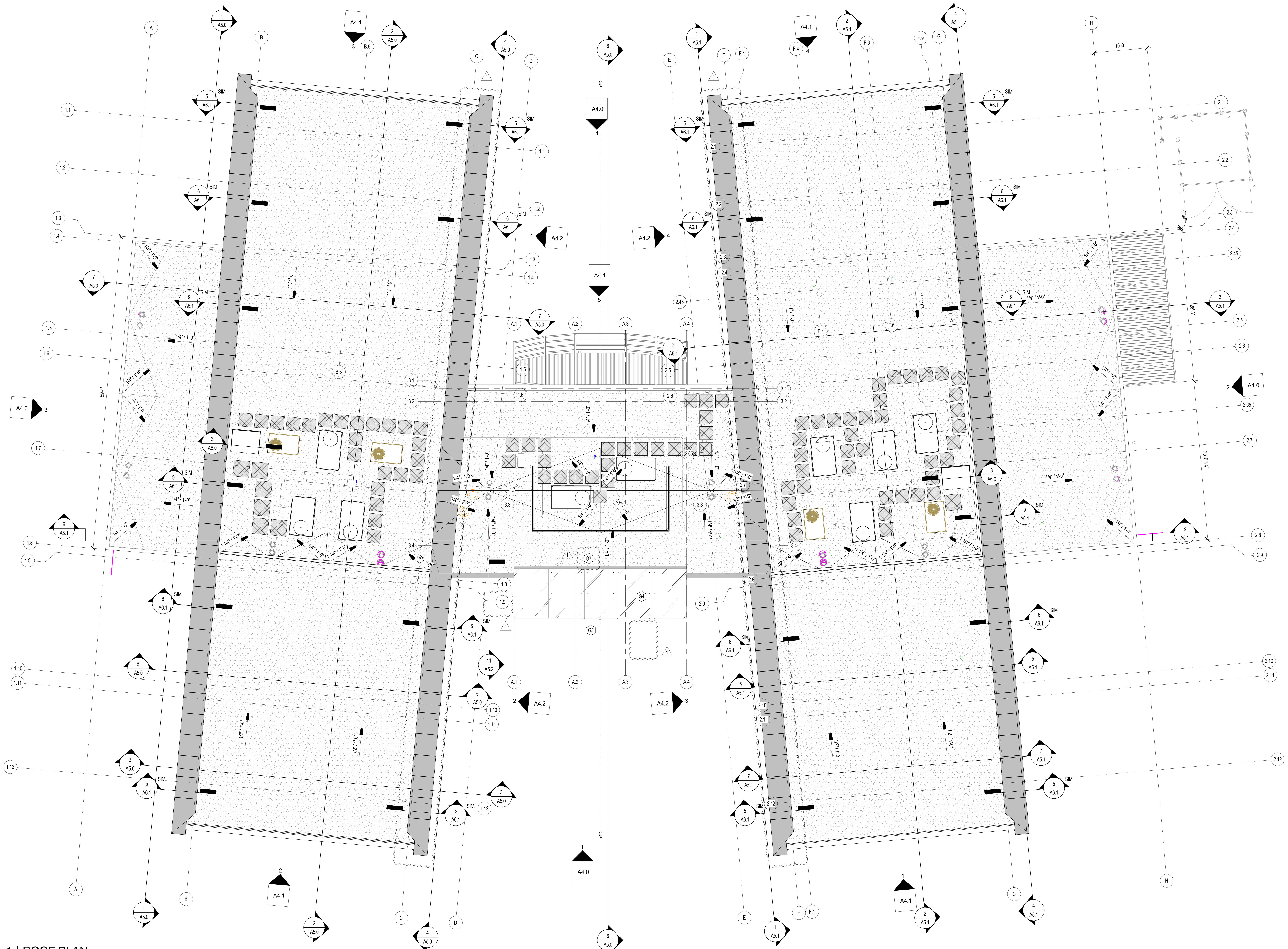
PROJECT NO:	221001
DESIGNED BY:	JGI
DRAWN BY:	JGI
REVIEWED BY:	JSH
SCALE:	AS INDICATED

ODOT OSU MULTIPURPOSE FACILITY
STILLWATER, OK

SHEET
FLOOR PLAN

SHEET
A2.0



1 ROOF PLAN

1/8" = 1'-0"

NORTH

LEGEND - ROOF

Symbol	Description
	MODIFIED BITUMENT MEMBRANE ROOF
	MODIFIED BITUMENT MEMBRANE ROOF 2
	ALUMINUM COMPOSITE PANEL
	WALKWAY PAD
RD/OD	ROOF DRAIN / OVERFLOW DRAIN
DS	DOWNSPOUT TAG
	ROOFTOP EQUIPMENT
SC	THROUGH WALL SCUPPER
	TAPERED INSULATION (CRICKET)

PLOT DATE: 1/20/2026 10:26:03 PM

CEC CORPORATION
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OK CA#: 32 EXP.: 2026-06-30

OKLAHOMA Transportation

STATE OF OKLAHOMA
Joshua S. Hill
5663
Oklahoma city
Oklahoma
LICENSED ARCHITECT
01/21/2026

REVISION HISTORY

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DRAWN BY:	JSH
REVIEWED BY:	JSH
SCALE:	AS INDICATED

ODOT OSU MULTIPURPOSE FACILITY

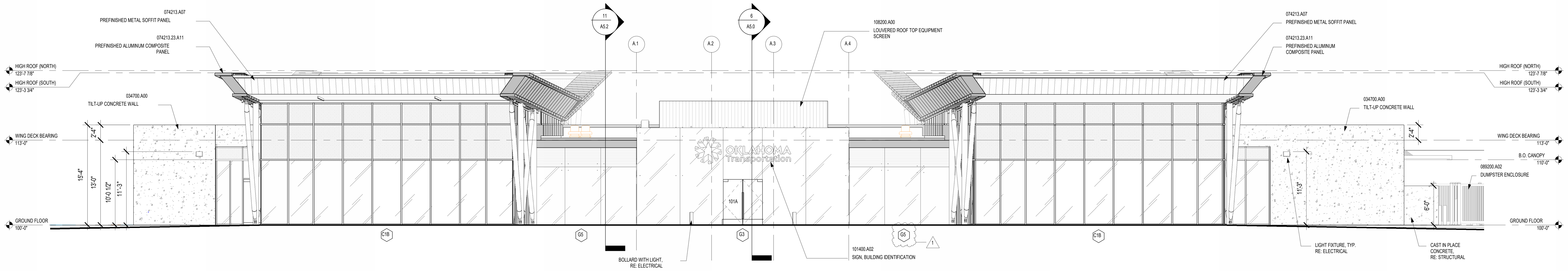
STILLWATER, OK

SHEET

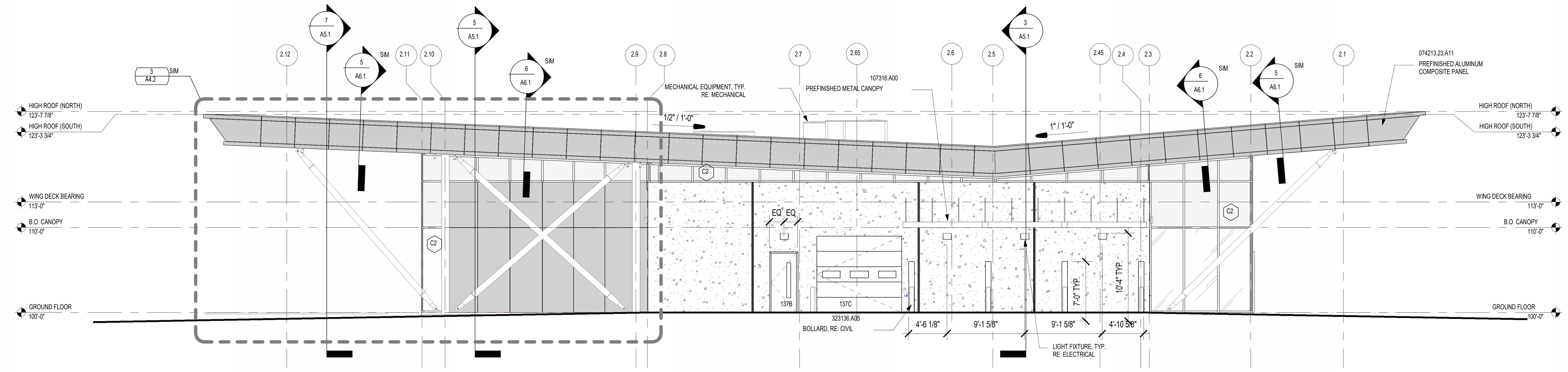
ROOF PLAN

SHEET

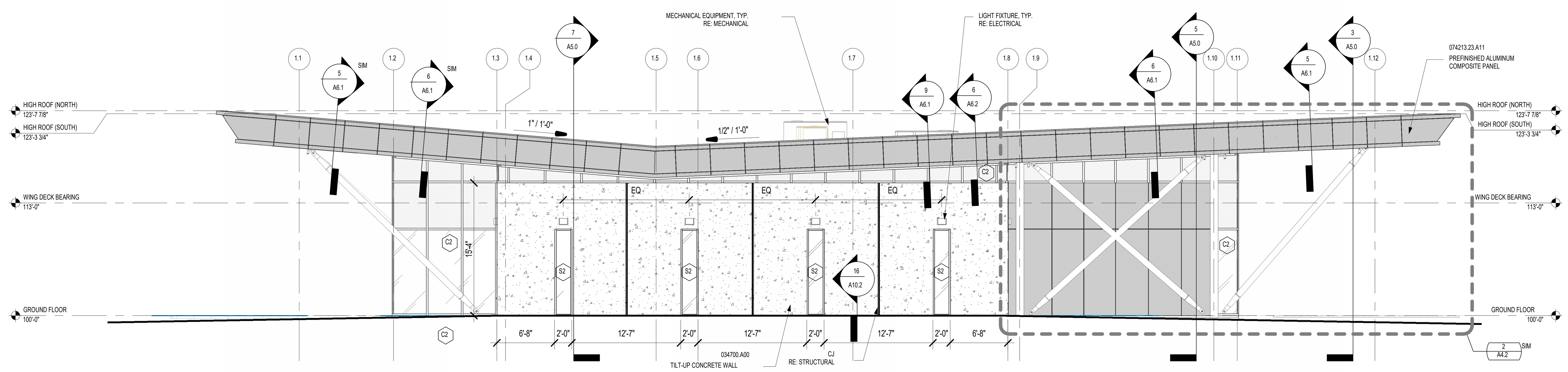
A3.0



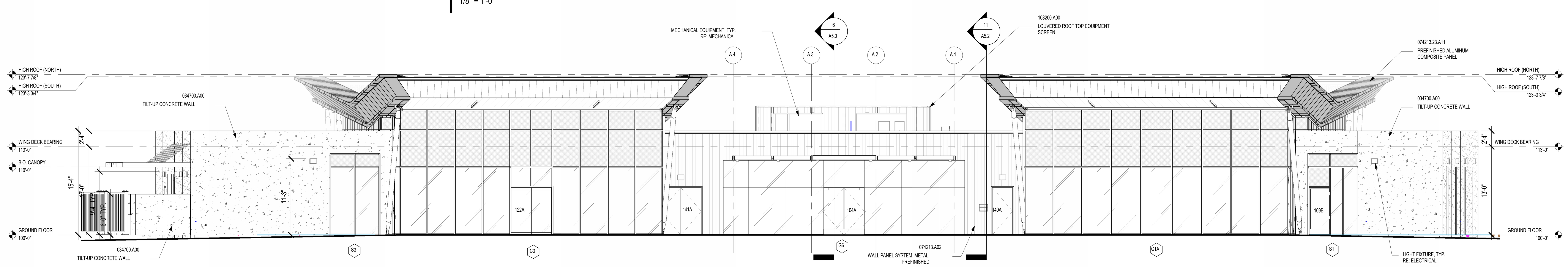
1 | EXTERIOR ELEVATION - SOUTH COMPOSITE
1/8" = 1'-0"



2 | EXTERIOR ELEVATION - EAST COMPOSITE
1/8" = 1'-0"



3 | EXTERIOR ELEVATION - WEST COMPOSITE
1/8" = 1'-0"



4 | EXTERIOR ELEVATION - NORTH COMPOSITE
1/8" = 1'-0"

EXTERIOR MATERIAL LEGEND

PATTERN	DESCRIPTION
	ALUMINUM COMPOSITE PANEL
	RIBBED METAL PANEL
	TILT-UP CONCRETE WALL
	LOUVERED SCREEN
	GLAZING, REF. A11.1 & A11.2
	SPANDREL

PLOT DATE: 1/20/2026 10:26:14 PM

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OK CA# 31 EXP.: 2026-06-30

OKLAHOMA Transportation

STATE OF OKLAHOMA
LICENSED ARCHITECT
01/21/2026

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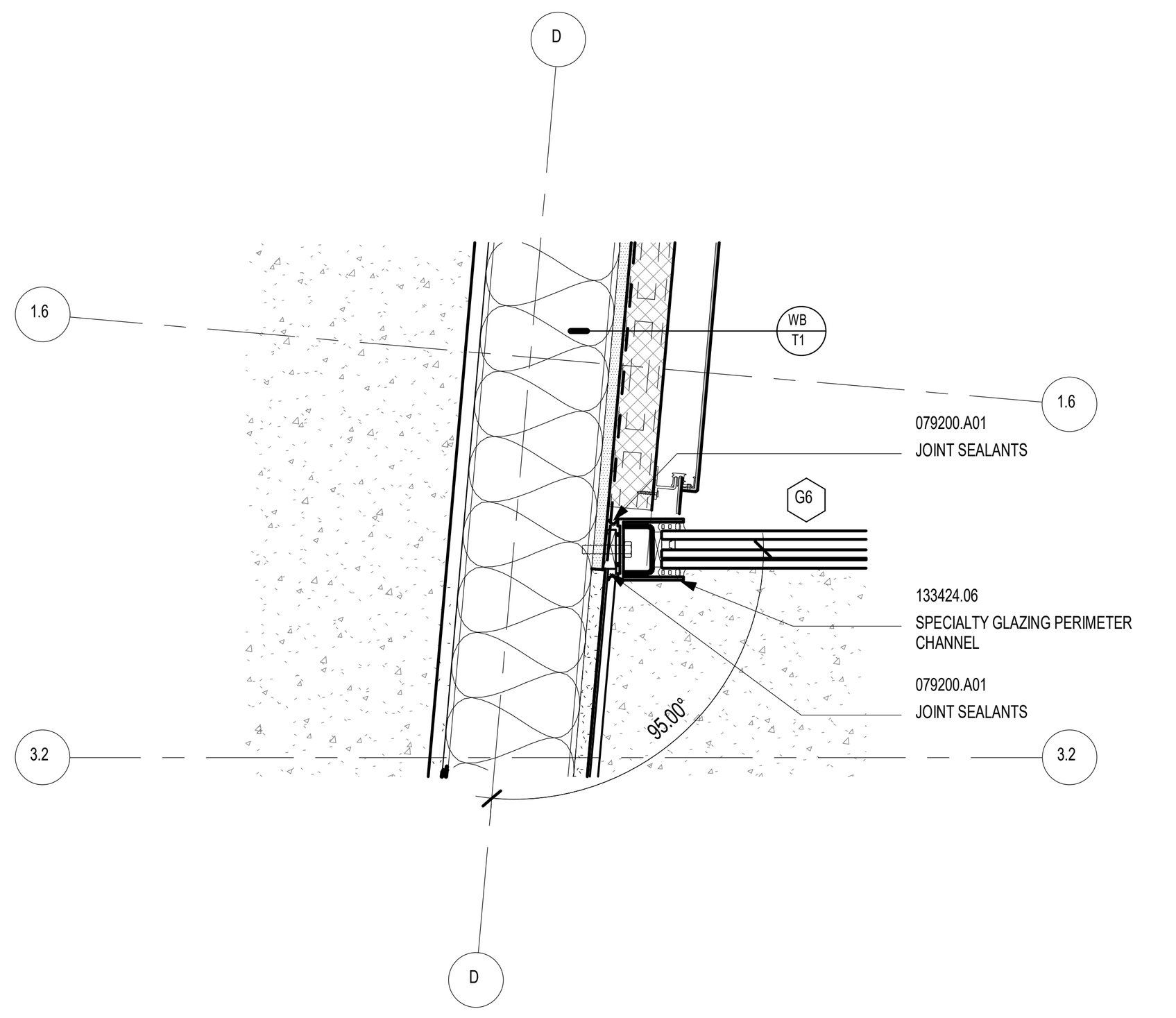
SCALE: AS INDICATED

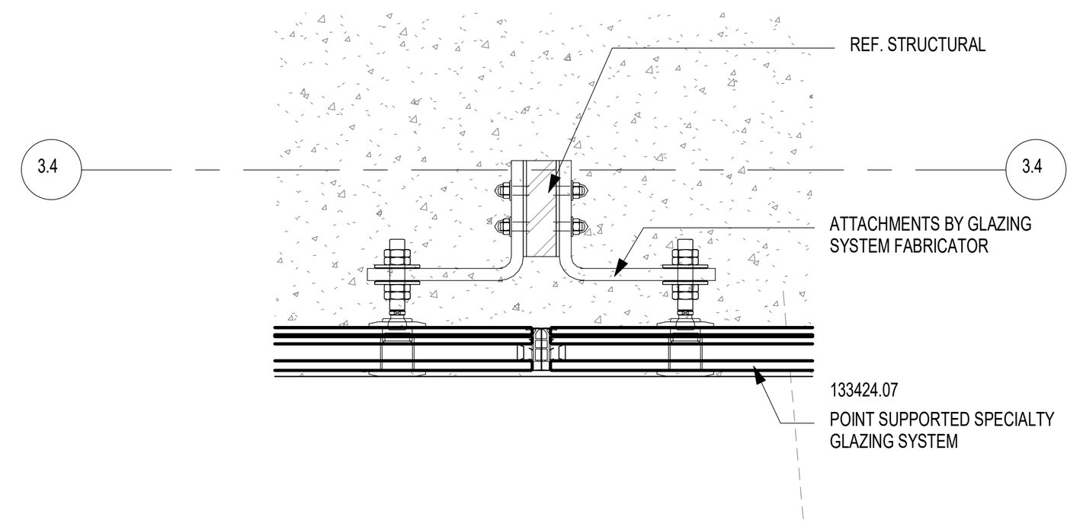
ODOT OSU MULTIPURPOSE FACILITY
STILLWATER, OK

SHEET
EXTERIOR ELEVATIONS

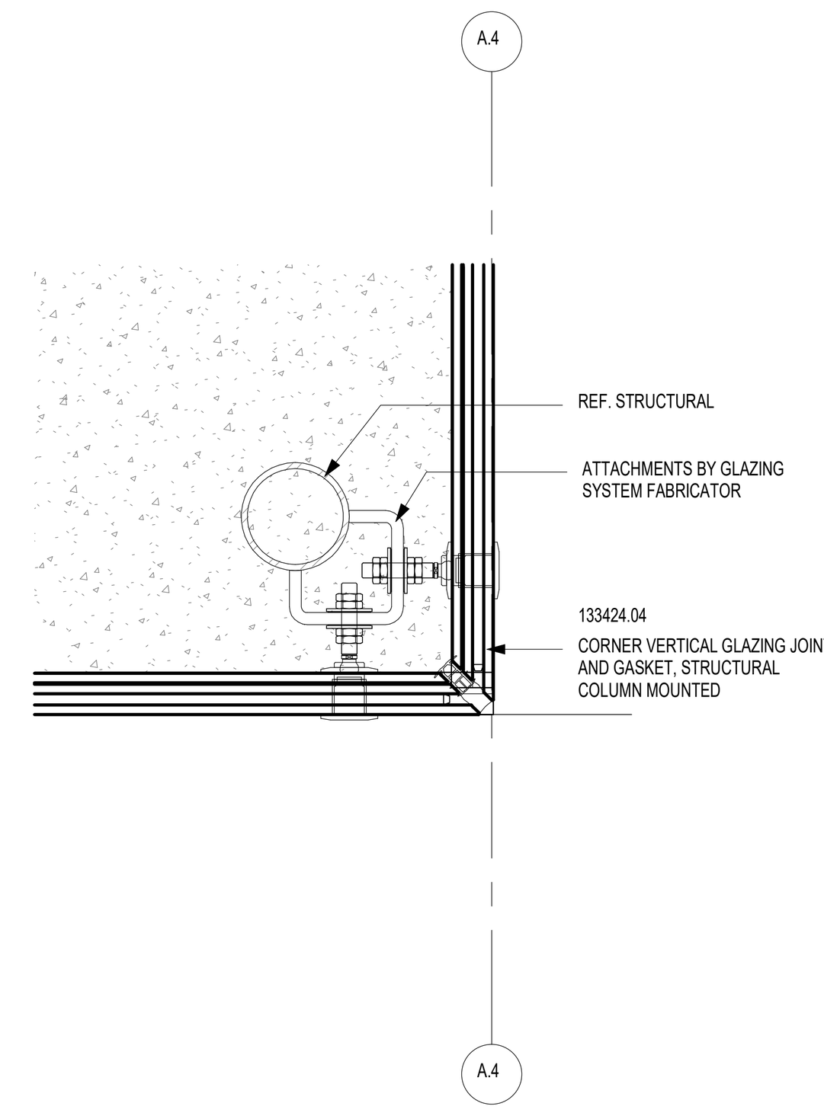
SHEET
A4.0



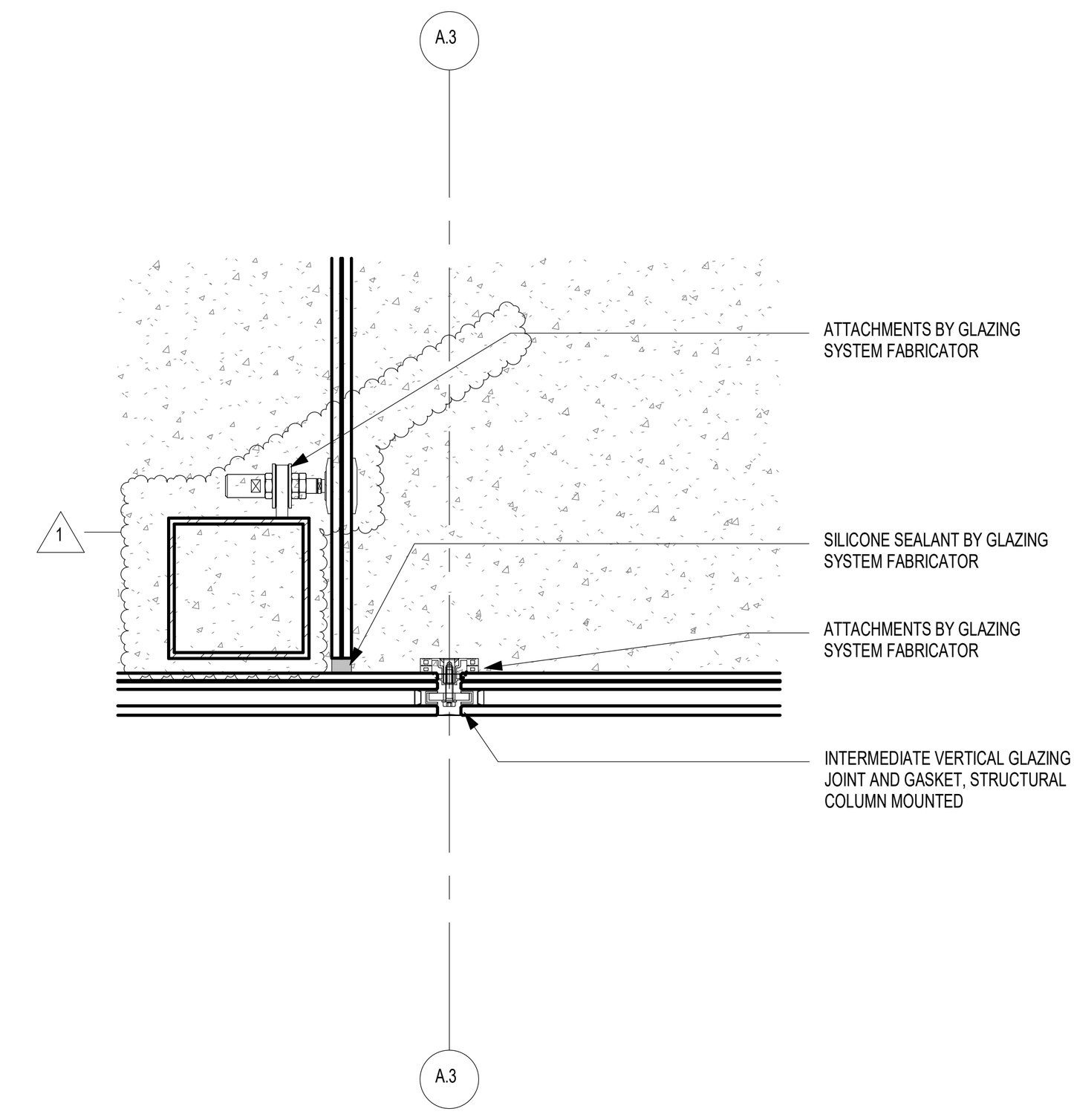
5 | DETAIL
1 1/2" = 1'-0"



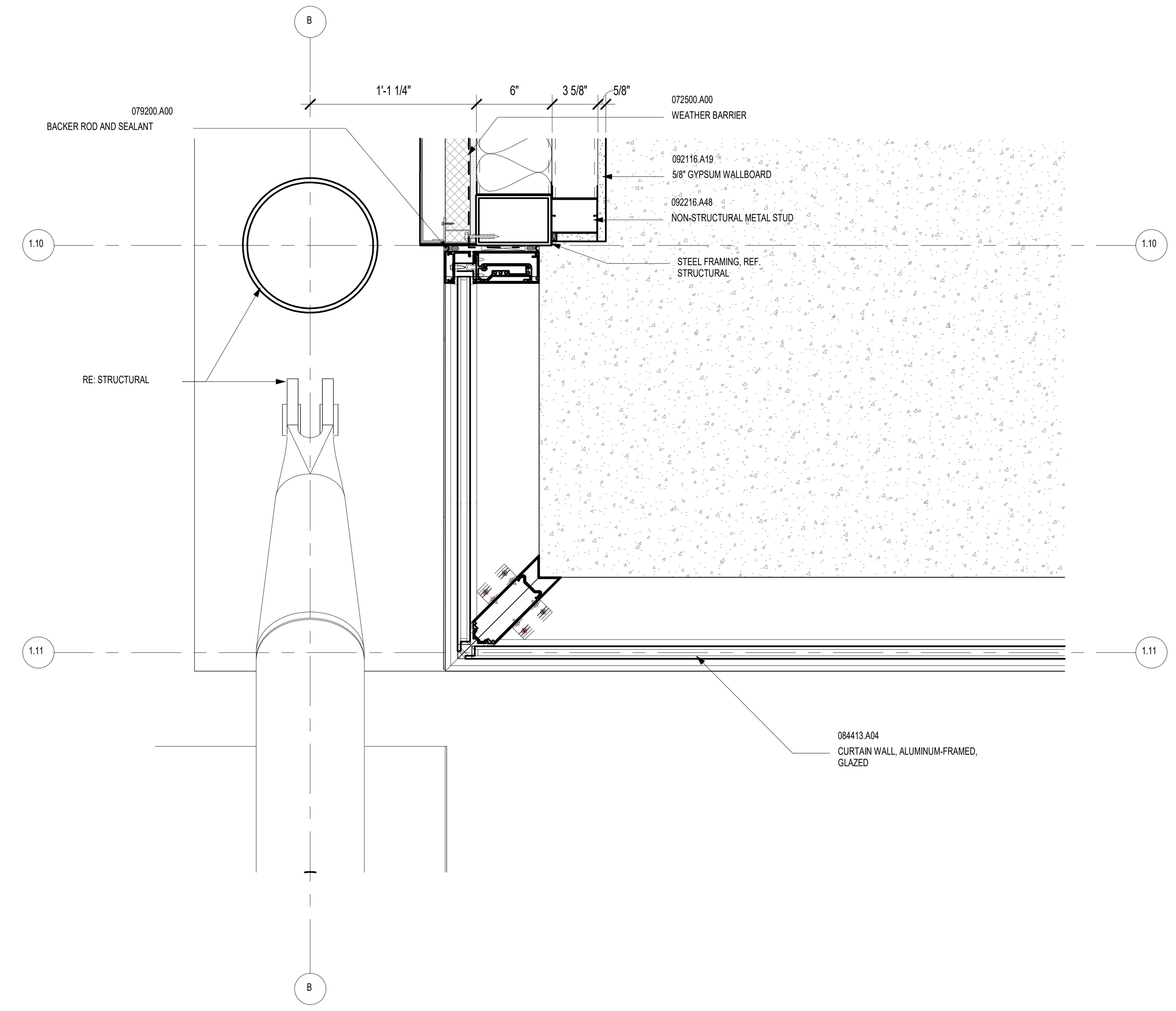
4 | DETAIL
1 1/2" = 1'-0"



3 | DETAIL
1 1/2" = 1'-0"



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



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

CEC CORPORATION
WWW.CONNECTCEC.COM
OK CA#: 32 EXP.: 2026-06-30

OKLAHOMA Transportation

STATE OF OKLAHOMA
Joshua S. Hill
5663
Oklahoma city
Oklahoma
LICENSED ARCHITECT
01/21/2026

REVISION HISTORY

NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	01-21-2026

SUBMITTAL:	CONSTRUCTION DOCUMENTS
DATE:	09/12/2025
PROJECT NO:	221001
DESIGNED BY:	Designer
DRAWN BY:	Author
REVIEWED BY:	Approver
SCALE:	AS INDICATED

ODOT OSU MULTIPURPOSE FACILITY

STILLWATER, OK

SHEET

EXTERIOR PLAN DETAILS

SHEET

A7.0

PLOT DATE: 1/20/2026 10:26:16 PM

ROOM FINISH SCHEDULE

Number	Name	RM_Base	RM_Floor	RM_Wall North	RM_Wall East	RM_Wall South	RM_Wall West	RM_Ceiling	Notes
101	VESTIBULE	---	WOC1	---	---	---	---	Ref. RCP	
102	LOBBY	RB1	SC1	Ref. Elev.	PT6	---	PT6	Ref. RCP	
103	RECEPTION	RB1	SC1	Ref. Elev.	---	---	---	Ref. RCP	
104	BREAK ROOM	RB1	SC1	---	PT6	Ref. Elev.	PT6	Exposed	
105	IT	RB1	SC1	PT6	PT6	PT6	PT6	Exposed	
106	JANITOR	RB1	SC1	PT6/FRP1	PT6/FRP1	PT6/FRP1	PT6/FRP1	Exposed	FRP1 UP TO 4' FROM F.F
107	CIRCULATION	RB1	SC1	PT6	Ref. Elev.	PT6	PT6	Exposed	
108	WOMEN'S	PTB1	PFT1	PT6	PT6	Ref. Elev.	Ref. Elev.	GWB1	
109	CIRCULATION	RB1	SC1	PT6	PT6	PT6	PT6	Exposed	
110	LOUNGE	RB1	SC1	PT6	---	---	---	Exposed	
111	CUBICLE SPACE	RB1	CPT1	---	PT6	PT6	---	Exposed	
112	RESIDENCY OFFICE	RB1	CPT1	PT5	PT5	PT5	PT5	ACT1	
113	RESIDENCY OFFICE	RB1	CPT1	PT5	PT5	PT5	PT5	ACT1	
114	RESIDENCY OFFICE	RB1	CPT1	PT5	PT5	PT5	PT5	ACT1	
115	RESIDENCY OFFICE	RB1	CPT1	PT5	PT5	PT5	PT5	ACT1	
116	CLASSROOM	RB1	CPT2	PT3	PT6	---	PT6	Ref. RCP	
117	CONFERENCE ROOM	RB1	CPT1	PT6	PT6	PT6	---	ACT1	
118	STORAGE	RB1	SC1	PT6	PT6	PT6	PT6	Exposed	
119	UNISEX	PTB1	PFT1	PT6	PT6	PWT1	PT6	GWB1	
120	CIRCULATION	RB1	SC1	PT6	PT6	PT6	---	Ref. RCP	
121	MEN'S	PTB1	PFT1	PT6	Ref. Elev.	Ref. Elev.	PT6	GWB1	
122	CIRCULATION	RB1	SC1	Ref. Elev.	Ref. Elev.	Ref. Elev.	Ref. Elev.	Exposed	
123	STATION 1	RB1	SC1	---	---	PT5	---	Exposed	
124	STATION 4	RB1	SC1	---	PT5	PT5	---	Exposed	
125	STATION 2	RB1	SC1	PT5	---	PT5	---	Exposed	
126	STATION 5	RB1	SC1	PT5	PT5	PT5	---	Exposed	
127	STATION 3	RB1	SC1	PT5	---	PT5	PT5	Exposed	
128	STATION 6	RB1	SC1	PT5	PT5	PT5	---	Exposed	
129	AIR COMPRESSOR	RB1	SC1	PT6	PT6	PT6	PT6	Exposed	
130	RESIDENCY OFFICE	RB1	SC1	PT5	PT5	PT5	PT5	ACT1	
131	RESIDENCY LAB	RB1	SC1	PT6	PT6	---	PT6	Exposed	
132	RESIDENCY OFFICE	RB1	SC1	PT5	PT5	PT5	PT5	ACT1	
133	RESIDENCY OFFICE	RB1	SC1	PT5	PT5	PT5	PT5	ACT1	
134	OVENS	RB1	SC1	---	---	PT5	---	Exposed	
135	SINKS	RB1	SC1	PT6	PT6	PT6	---	Exposed	
136	STORAGE ROOM	RB1	SC1	PT6	PT6	PT6	PT6	GWB1	
137	SHIPPING & RECEIVING	RB1	SC1	PT6	PT6	PT6	PT6	Exposed	
138	SHAKER ROOM	RB1	SC1	PT6	PT6	PT6	PT6	GWB1	
139	STORAGE	RB1	SC1	PT6	PT6	PT6	PT6	Exposed	
140	ELECTRICAL	RB1	SC1	PT6	PT6	PT6	PT6	Exposed	
141	MECHANICAL	RB1	SC1	PT6	PT6	PT6	PT6	Exposed	

MATERIAL SCHEDULE

Class	Material Name	Description	Manufacturer	Model	Comments
	PTB1	PORCELAIN TILE BASE	CROSSVILLE	6"X12" COVED; BELJN - CANAL GRAY (UPS)	
INTERIOR - BASE	RB1	RUBBER BASE	ROPPE	193 BLACK BROWN / 4" COVE BASE	
	ACT1	ACOUSTIC CEILING TILE	ARMSTRONG CEILINGS	24X24 INCH; -	
	CG1	CEILING GRID	ARMSTRONG CEILINGS	15/16 INCH PRELUDE GRID; WHITE	
INTERIOR - CEILING	GWB1	GYPSUM WALLBOARD	-	-	
	CPT1	CARPET TILE	PATCRAFT	24"X24" POSSIBLE 10490 - AT EASE 00500	QUARTER TURN INSTAL
	CPT2	CARPET TILE	PATCRAFT	24"X24" LEARNING LAB - COLLABORATION TANGERINE	ASHLAR INSTAL
	PFT1	PORCELAIN FLOOR TILE	CROSSVILLE	12"X24" BELJN - CANAL GRAY (UPS)	
	SC1	SEALED CONCRETE	-	-	
INTERIOR - FLOOR	WOC1	WALK OFF CARPET	PATCRAFT	WALK FORWARD - STROLL	
	CDG1	CORNER GUARD	INPRO	REFER TO SPECS	COLOR TO MATCH PT6 (PLASTIC)
	CDG2	CORNER GUARD	INPRO	REFER TO SPECS	(STAINLESS STEEL)
	CMP1	CUSTOM METAL PANEL	MOZ DESIGNS	REFER TO SPECS	BOTH CEILING AND WALL PANELS BEHIND RECEPTION
	CS1	CHEMICAL RESISTANT LAMINATE	WILSONART	CHEMSURF - COLOR; BLACK 1595	
	PL1	PLASTIC LAMINATE	WILSONART	CONTINENTAL WALNUT	CASEWORK & DOORS
	RS1	ROLLERSHADE	DRAPER MANUFACTURING	MANUAL ROLLER SHADE, 1% OPENNESS; COLOR TBD	
	SS1	SOLID SURFACE	WILSONART	YUKON RIVERSTONE 9196RS	
1	SWD1	SOLID WOOD 1	REFER TO SPEC 06 2000	STAIN TO MATCH PL1	
	TP1	PHENOLIC TOILET PARTITIONS	WILSONART	FOSSIL SHALE, MATTE FINISH	
	TR1	TRANSITION STRIP	SCHLUTER SYSTEMS	RENO U; BRUSHED STAINLESS STEEL	FLOOR TILE TO SEALED CONCRETE
	TR2	TRANSITION STRIP	ROPPE	#24 RUBBER REDUCER STRIP 1/4 INCH, COLOR TO MATCH RB1	CARPET TO SEALED CONCRETE
	TR3	TRANSITION STRIP	SCHLUTER SYSTEMS	SCHIENE; BRUSHED STAINLESS STEEL	EXPOSED EDGE OF WALL TILE
INTERIOR - MISC.	WP1	WOOD PANELING	SURFACING SOLUTION	SOLID WOOD TAMBOUR, T693: SLAT WIDTH 1.5 INCHES, POPLAR (PAINT GRADE)	RECEPTION DESK (PAINT PT4)
	FRP1	FIBERGLASS REINFORCED PLASTIC	MARLITE	WHITE PEBBLED TEXTURE	JANITOR CLOSETS UP TO 4' FROM F.F
	PT1	PAINT	SHERWIN WILLIAMS	SW7004 SNOWBOUND	CEILINGS
	PT3	PAINT	SHERWIN WILLIAMS	SW7018 DOVETAIL	
	PT4	PAINT	SHERWIN WILLIAMS	SW6886 INVIGORATE	
	PT5	PAINT	SHERWIN WILLIAMS	SW7643 PUSSYWILLOW	
	PT6	PAINT	SHERWIN WILLIAMS	SW7015 REPOSE GRAY	FIELD PAINT
	PWT1	PORCELAIN WALL TILE	CROSSVILLE	12"X24" SANDS - GREY (NATURAL FINISH)	
INTERIOR - WALL	PWT2	PORCELAIN WALL TILE	TILEBAR	TEXSTONE DECO GRIS 9" MATTE PORCELAIN HEXAGON TILE	BACKSPLASH

1

GENERAL NOTES - MATERIAL SCHEDULE

1. REFER TO INTERIOR FINISH PLAN(S) AND ELEVATION(S) FOR LOCATION OF WALL TILE, PAINT, AND BASE.
2. REFER TO INTERIOR FINISH PLAN(S) FOR FLOORING LOCATIONS, PATTERNS, AND DIRECTION OF FLOORING.
3. REFER TO EXTERIOR BUILDING ELEVATION(S) FOR EXTERIOR MATERIAL LOCATIONS AND NOTES.
4. REFER TO REFLECTED CEILING PLAN(S) FOR DESIGN AND LAYOUT OF CEILINGS AND CEILING MOUNTED EQUIPMENT.
   A. IF EQUIPMENT IS NOT SHOWN FOR ANY REASON, G.C. TO CONTACT ARCHITECT FOR FURTHER INSTRUCTION.
5. CONTRACTOR SHALL PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES AS INDICATED ON FINISH PLAN(S)
6. ALL GYPSUM WALL BOARD CEILINGS ARE TO PAINTED PT1, UNLESS NOTED OTHERWISE.
7. ALL UNFINISHED AND EXPOSED STEEL TO BE PAINTED PT1, UNLESS NOTED OTHERWISE.
8. ALL HOLLOW METAL DOOR FRAMES TO MATCH RB1 UNLESS NOTED OTHERWISE.
9. ALL WOODEN DOORS SHOULD BE STAINED TO MATCH PL1, UNLESS NOTED OTHERWISE.

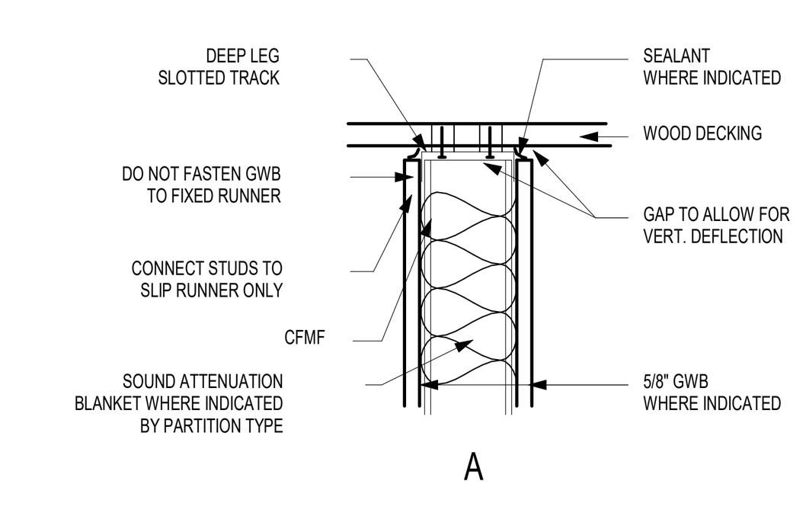
1

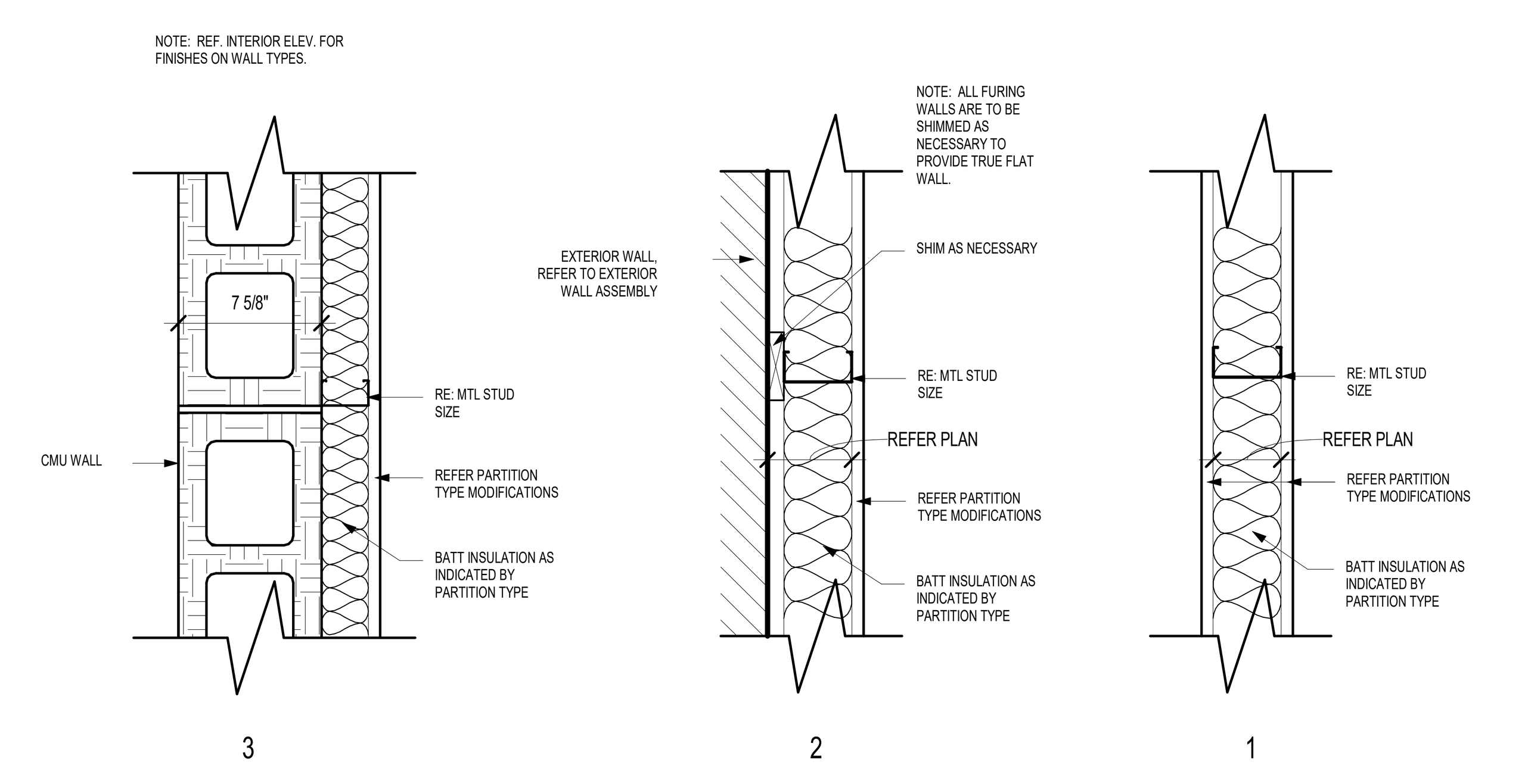
SIGNAGE SCHEDULE

TEXT	SIZE D	SIZE L	DETAIL #	LOCATION	PLACEMENT	BACKGROUND COLOR	LETTERS / SYMB. H	LETTERS / SYMB. COLOR	MOUNTING HEIGHT	REMARKS
IT	4"	8"	6/A10.0	105	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
JANITOR ROOM	4"	8"	7/A10.0	106	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
WOMEN'S RESTROOM	8"	8"	8/A10.0	108	LATCH SIDE	SW7643	1"	WHITE	5'-0" A.F.F.	
BULLPEN	4"	8"	8/A10.0	111	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
OFFICE	4"	8"	8/A10.0	112	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
OFFICE	4"	8"	8/A10.0	113	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
OFFICE	4"	8"	8/A10.0	114	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
OFFICE	4"	8"	8/A10.0	115	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
CLASSROOM	4"	8"	8/A10.0	116	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
CONFERENCE ROOM	4"	8"	8/A10.0	117	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
STORAGE ROOM	4"	8"	8/A10.0	118	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
UNISEX RESTROOM	8"	8"	8/A10.0	119	LATCH SIDE	SW7643	1"	WHITE	5'-0" A.F.F.	
MEN'S RESTROOM	8"	8"	8/A10.0	121	LATCH SIDE	SW7643	1"	WHITE	5'-0" A.F.F.	
STATION 1	4"	8"	8/A10.0	123	COORD. W OWNER	SW7643	5/8"	WHITE	5'-0" A.F.F.	
STATION 4	4"	8"	8/A10.0	124	COORD. W OWNER	SW7643	5/8"	WHITE	5'-0" A.F.F.	
STATION 2	4"	8"	8/A10.0	125	COORD. W OWNER	SW7643	5/8"	WHITE	5'-0" A.F.F.	
STATION 5	4"	8"	8/A10.0	126	COORD. W OWNER	SW7643	5/8"	WHITE	5'-0" A.F.F.	
STATION 3	4"	8"	8/A10.0	127	COORD. W OWNER	SW7643	5/8"	WHITE	5'-0" A.F.F.	
STATION 6	4"	8"	8/A10.0	128	COORD. W OWNER	SW7643	5/8"	WHITE	5'-0" A.F.F.	
AIR COMPRESSOR	4"	8"	8/A10.0	129	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
OFFICE	4"	8"	8/A10.0	130	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
RESIDENCY LAB	4"	8"	8/A10.0	131	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
OFFICE	4"	8"	8/A10.0	132	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
OFFICE	4"	8"	8/A10.0	133	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
STORAGE ROOM	4"	8"	8/A10.0	136	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
SHIPPING & RECEIVING	4"	8"	8/A10.0	137	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
SHAKER ROOM	4"	8"	8/A10.0	138	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
STORAGE ROOM	4"	8"	8/A10.0	139	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
ELECTRICAL ROOM	4"	8"	8/A10.0	140	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	
MECHANICAL ROOM	4"	8"	8/A10.0	141	LATCH SIDE	SW7643	5/8"	WHITE	5'-0" A.F.F.	

NOTE:
1. SIGNS TO COMPLY W/ LOCAL & FEDERAL REGULATORY STANDARDS, INCLUDE BRAILLE AND 1/32" RAISED LETTERS.
2. CONTRACTOR TO CONFIRM ALL SIGNAGE VERBAGE WITH THE OWNER BEFORE FINAL APPROVAL.

2 SIGNAGE
3" = 1'-0"





1 PARTITION TYPES
1 1/2" = 1'-0"

GENERAL NOTES - INTERIOR PARTITIONS

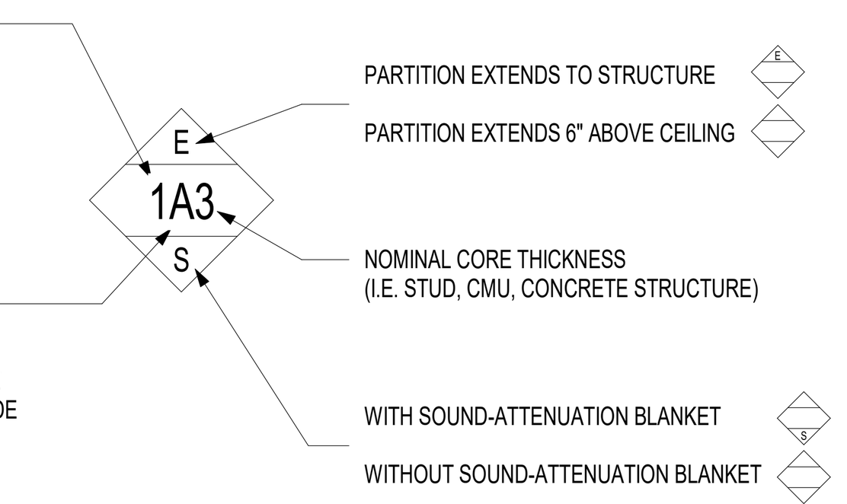
A. STUDS AND FURRING STRIPS SHALL BE SPACED A MAXIMUM OF 16" O.C.
B. WHERE TILE IS INDICATED IN THE ROOM FINISH SCHEDULE AND ELEVATIONS, PROVIDE TILE BACKER BOARD.
C. STUD SIZES SHALL CONFORM TO THE SIZES RECOMMENDED BY THE STUD MANUFACTURER FOR THE PARTITION HEIGHT AT EACH LOCATION.
D. EXTEND GWB TO STRUCTURE ON ALL WALLS THAT DO NOT HAVE A CEILING.
E. PROVIDE DEFLECTION TRACK AT ALL PARTITIONS THAT EXTEND TO STRUCTURE. REFER TO DETAIL A ON SHEET A10.0.
F. REFER TO PARTITION DETAILS COORDINATING WITH PARTITION TYPES ON SHEET A10.0.
G. ALL PARTITIONS WITH SOUND-ATTENUATION BLANKETS ARE TO BE CONSIDERED ACOUSTICAL PARTITIONS. SEAL TOP AND BOTTOM AND SEAL ALL PENETRATIONS TO INCLUDE DUCTWORK, PIPING, AND CONDUIT.
H. FOR PARTITIONS THAT ABUT CEILING, EXTEND GWB 6" ABOVE CEILING.
I. WALL PARTITION TAG ONLY REFERS TO WALL ASSEMBLY & NOT TO WALL FINISHES.
J. REFER TO FINISH SCHEDULE & INTERIOR ELEVATIONS FOR EXTENTS OF FINISHES.

PARTITION TYPE

1. STUD WALL
2. FURRING WALL
3. CMU & STUD WALL

PARTITION TYPE MODIFICATIONS

A. 5/8" GWB EACH SIDE
B. 5/8" GWB SINGLE SIDE
C. NONE



WALL TYPE	SIZE	DESIGNATION
STUD	2 1/2" 3 5/8" 6" 8"	2 3 6 8
FURRING WALL	2 1/2" 3 5/8"	2 3
CMU	7 5/8"	8

CEC

OKLAHOMA Transportation

01/21/2026

REVISION HISTORY

NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	01-21-2026

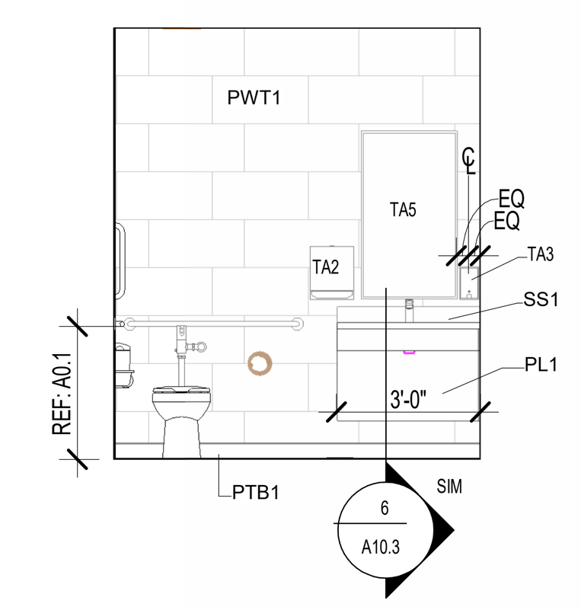
SUBMITTAL:	CONSTRUCTION DOCUMENTS
DATE:	09/12/2025
PROJECT NO:	221001
DESIGNED BY:	JGI
DRAWN BY:	HRS
REVIEWED BY:	JSH
SCALE:	AS INDICATED

ODOT OSU MULTIPURPOSE FACILITY
STILLWATER, OK

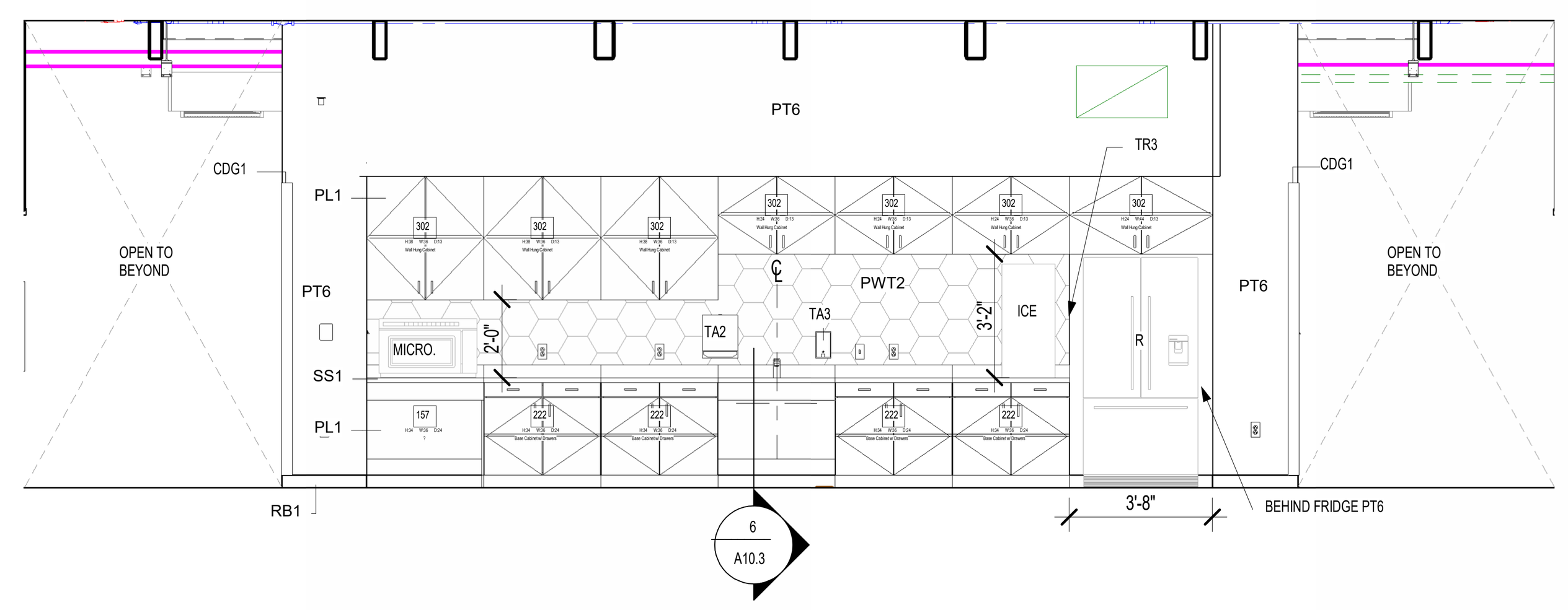
SHEET
ROOM FINISH SCHEDULE

SHEET
A10.0

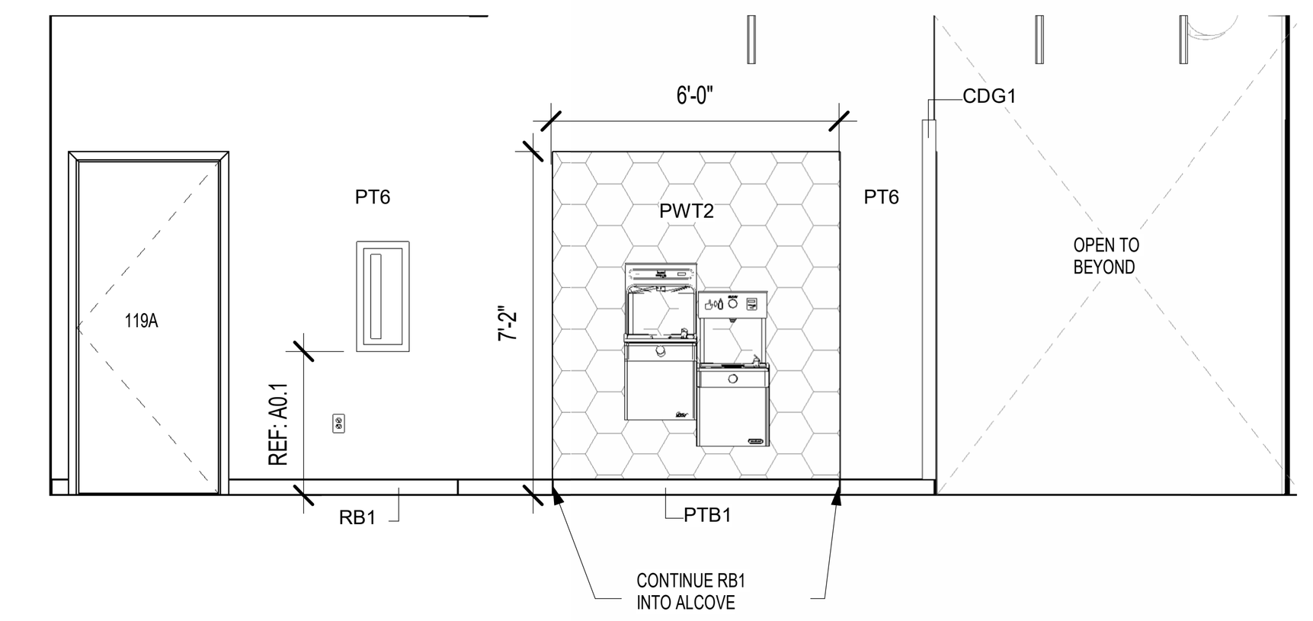
PLOT DATE: 1/20/2026 10:26:18 PM



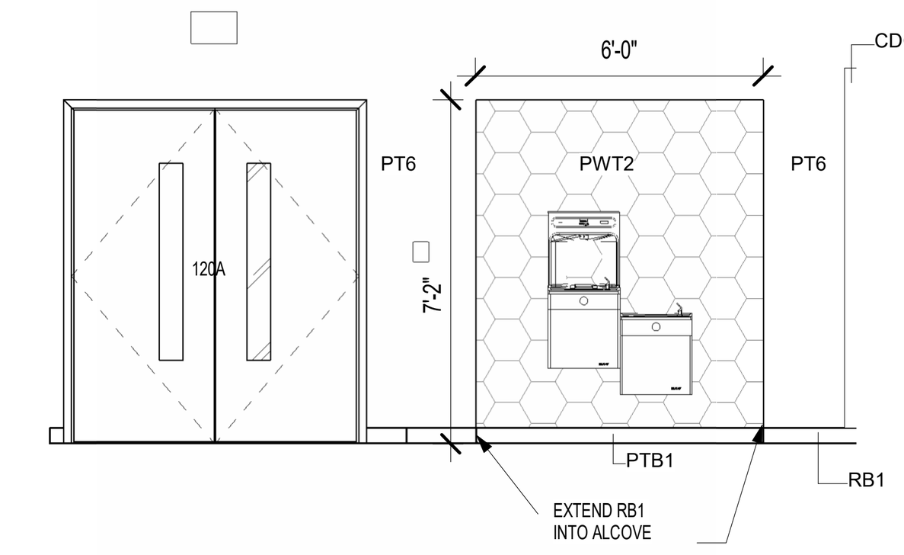
4 | 139 UNISEX
1/4" = 1'-0"



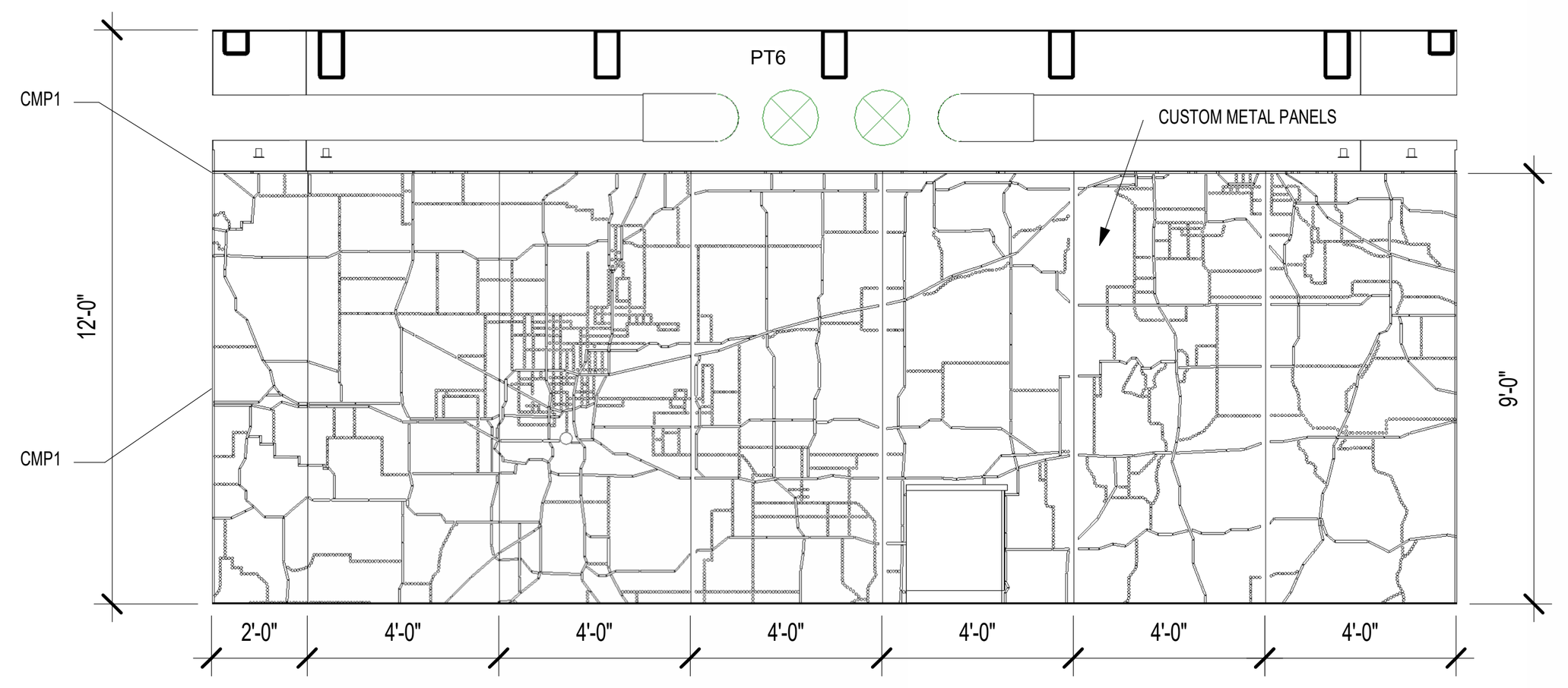
3 | 104 - BREAKROOM
1/4" = 1'-0"



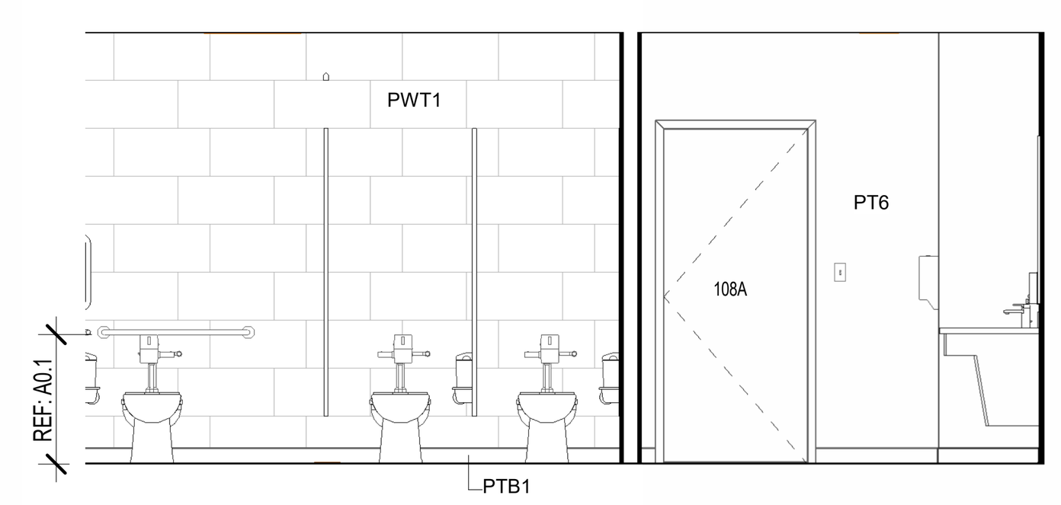
2 | WEST DRINKING FOUNTAIN
1/4" = 1'-0"



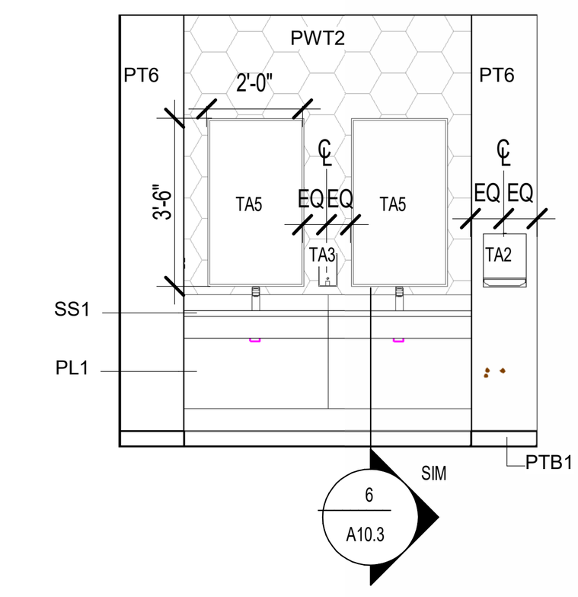
1 | EAST DRINKING FOUNTAIN
1/4" = 1'-0"



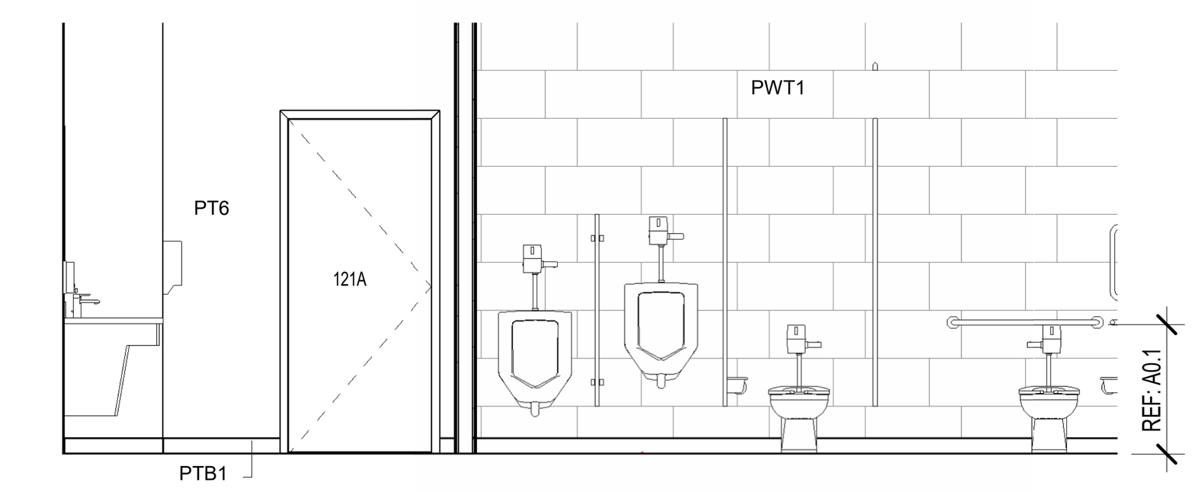
8 | INTERIOR ELEVATION - RECEPTION WALL
1/4" = 1'-0"



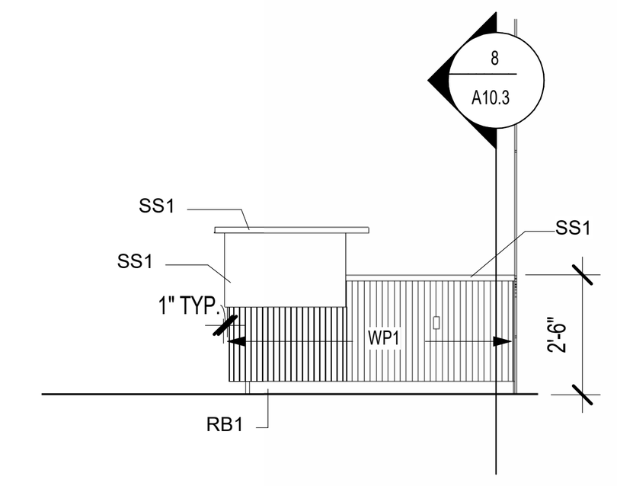
7 | 108 WOMEN'S
1/4" = 1'-0"



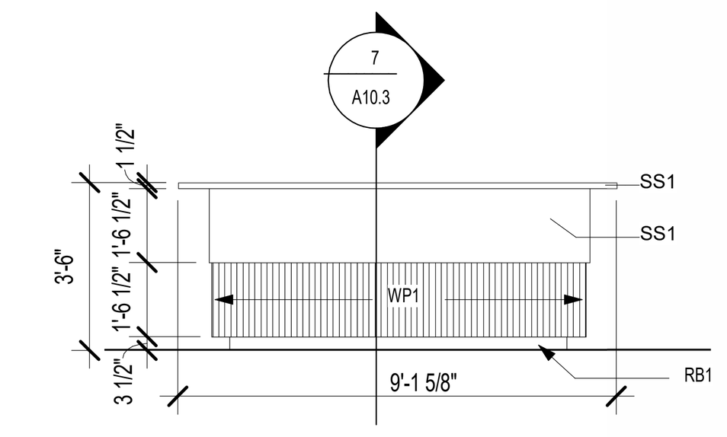
6 | 118 MEN'S
1/4" = 1'-0"



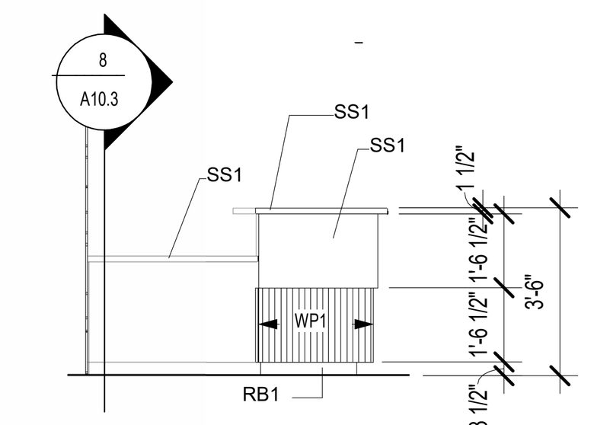
5 | 118 MEN'S
1/4" = 1'-0"



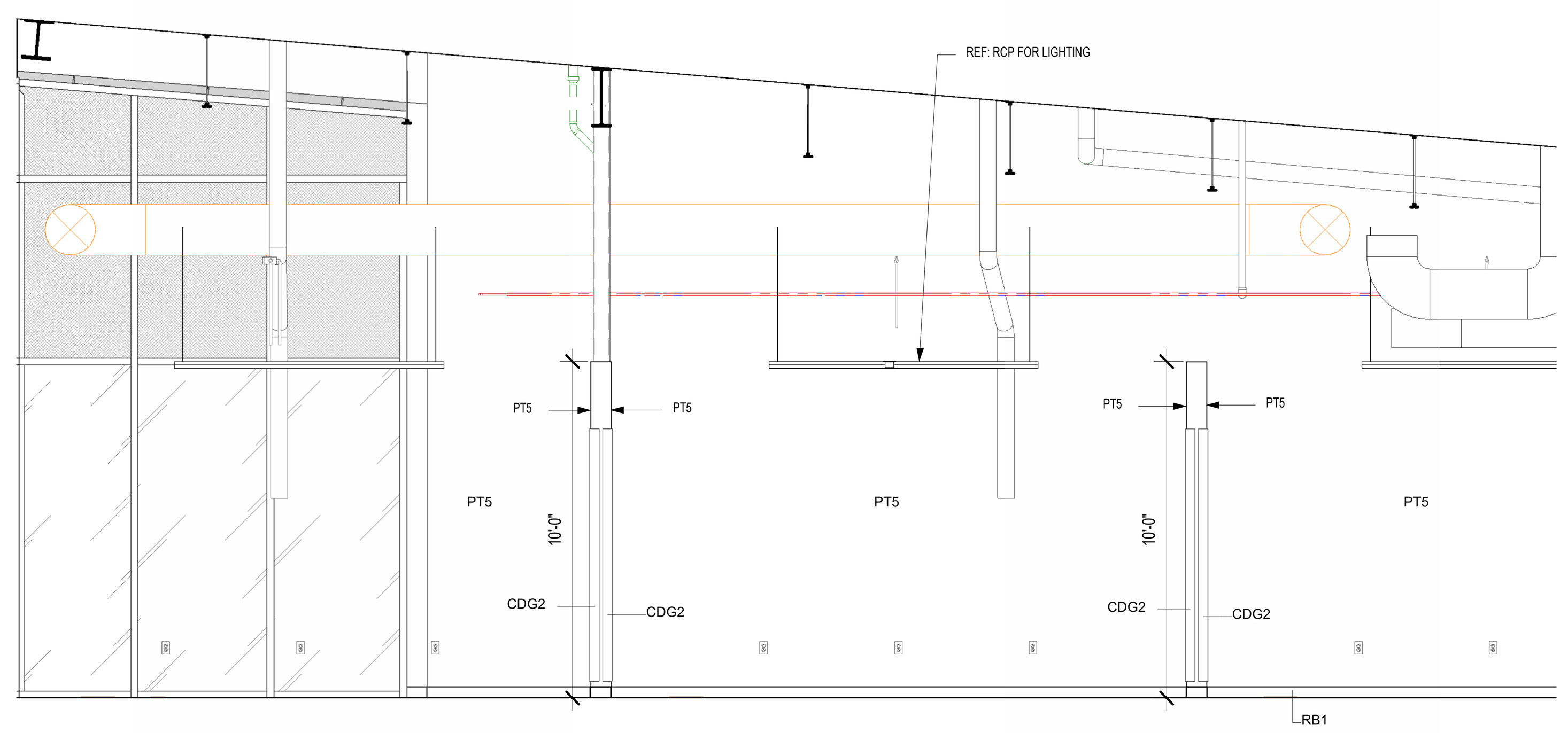
11 | 103 RECEPTION DESK
1/4" = 1'-0"



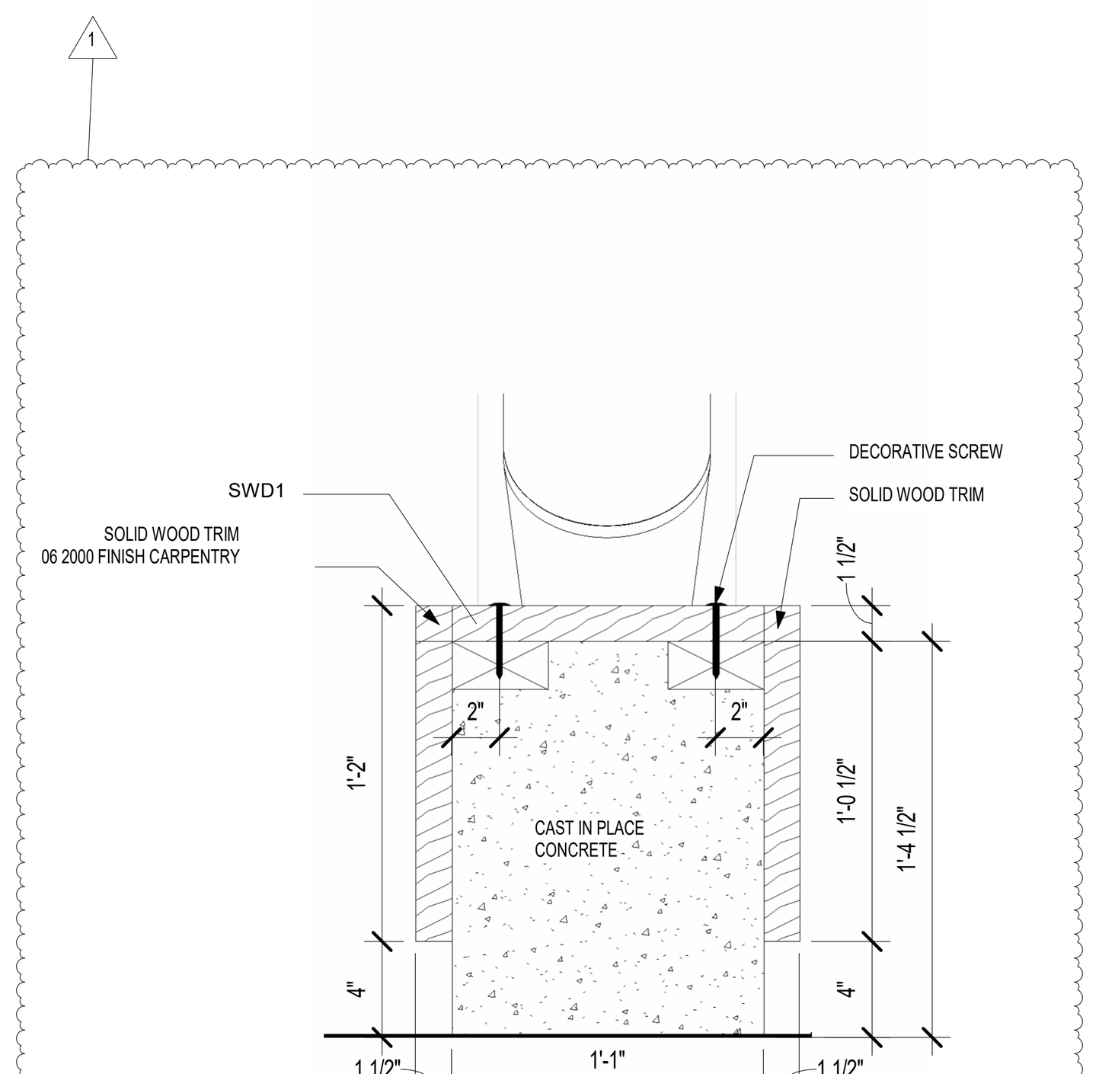
10 | 103 RECEPTION DESK
1/4" = 1'-0"



9 | 103 RECEPTION DESK
1/4" = 1'-0"

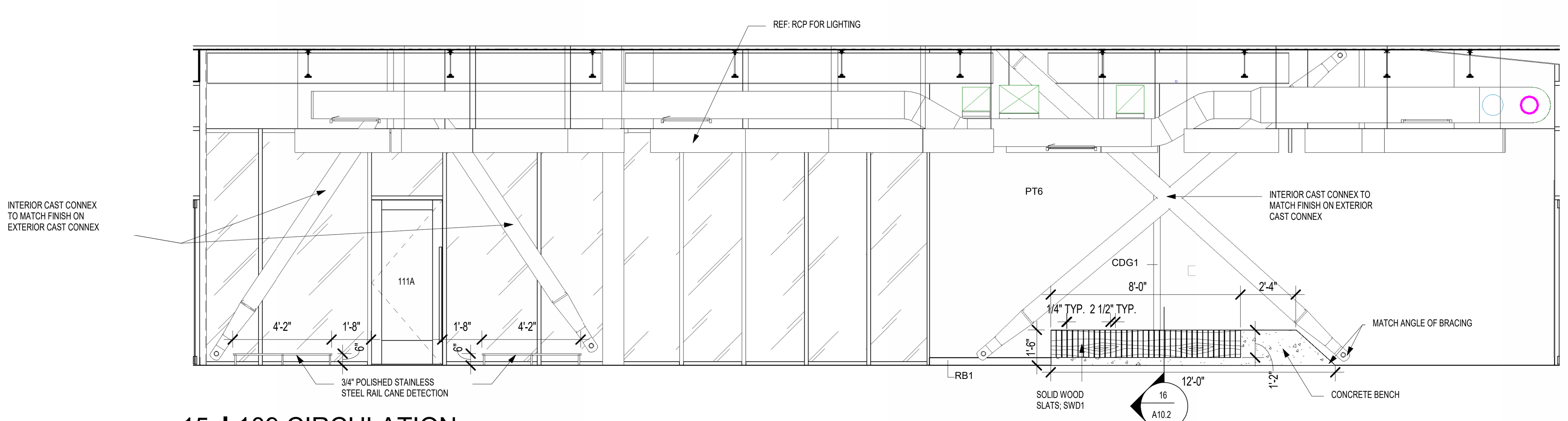


13 | 119 CIRCULATION
1/4" = 1'-0"

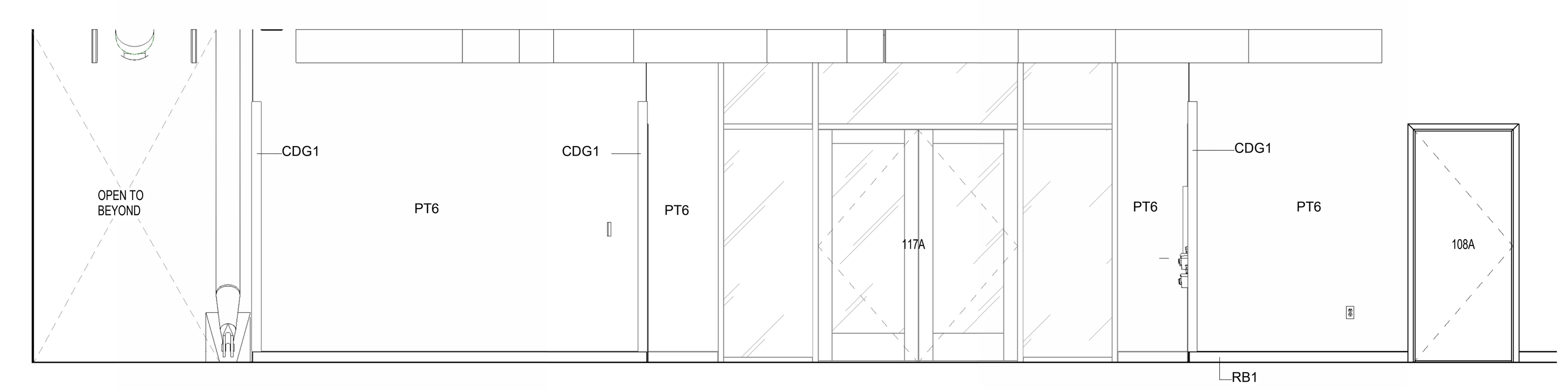


16 | BENCH SECTION
1 1/2" = 1'-0"

12 | 107 CIRCULATION
1/4" = 1'-0"



15 | 109 CIRCULATION
1/4" = 1'-0"



14 | 107 CIRCULATION
1/4" = 1'-0"

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01/21/2026

REVISION HISTORY

NO.	DESCRIPTION	DATE
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DRAWN BY:	HRS
REVIEWED BY:	JSH
SCALE:	AS INDICATED

ODOT OSU MULTIPURPOSE FACILITY
STILLWATER, OK

SHEET
INTERIOR ELEVATIONS
SHEET
A10.2

PLOT DATE: 1/20/2026 10:26:26 PM

EQUIPMENT SCHEDULE

TAG	NAME	QUANTITY	OFOI	MODEL	MANUFACTURER	LOCATION
E1	CYLINDER BREAKER	1	YES	CM-3000-SDP	TEST MARK INDUSTRIES	137 SHIPPING & RECEIVING
E2	AUTO SOIL COMPACTOR	1	YES	24-9095/02	ELE INTERNATIONAL	137 SHIPPING & RECEIVING
E3	THERMOLYNE (OVEN)	1	YES	F85930		131 RESIDENCY LAB
E4	TROXLER (GYRATORY)	1	YES	5850		131 RESIDENCY LAB
E5	MECH. WASHER	1	YES	HM57		131 RESIDENCY LAB
E6	LARGE STACK OVEN / STACK OF 2 OVENS	2	YES	31-350ER		131 RESIDENCY LAB
E7	GILSON (SIEVE MACHINE)	1	YES	TS-2	GILSON CO.	136 SHAKER ROOM
E8	MARY ANN LAB SIFTER	2	YES	RHA-637D	RAINHART CO.	136 SHAKER ROOM
E9	SAND EQUIVALENT SHAKER	1	YES	FL-854		131 RESIDENCY LAB
E10	INSTROTEK COREDRY	1	YES	-	INSTROTEK	131 RESIDENCY LAB / SIT ON TOP OF TABLE
E11	INSTROTEK CORELOK	1	YES	1225	INSTROTEK	131 RESIDENCY LAB / SIT ON TOP OF TABLE
E12	CYLINDER TANKS WITH PUMPS	3	YES	-		139 STORAGE
E13	MIXER	1	YES	B20T		139 STORAGE
E14	CONCRETE TABLE SAW	1	YES	150598 MK-22002		137 SHIPPING & RECEIVING
E15	WATER BATH (BELOW SCALE)	1	YES	-		131 RESIDENCY LAB
E16	SCALE (ABOVE WATER BATH)	1	YES	GP-12k		131 RESIDENCY LAB / ABOVE WATER BATH
E17	INSTROTEK AUTORICE	1	YES	2562B01	INSTROTEK	137 SHIPPING & RECEIVING
E18	CUSTOM STEEL TABLE WITH STORAGE	1	YES			131 RESIDENCY LAB
E19	MECHANICAL SPLITTER - ASPHALT	1	YES			131 RESIDENCY LAB
E20	MECHANICAL SPLITTER - AGGREGATE	1	YES			131 RESIDENCY LAB
E21	ASPHALT IGNITION OVEN	5	YES	NCAT F85930 SN:1087980711918		ALL STATIONS / ON TABLE
E22	SCALE ON TOP OF GRAVITY BENCH	6	YES	-		ALL STATIONS / ON TOP OF GRAVITY BENCH
E23	TABLE 32"X60"	18	YES	-		ALL STATIONS
E24	TABLE 32"X48"	6	YES	-		ALL STATIONS
E25	TABLE 32"X72"	5	YES	-		ALL STATIONS
E26	GRAVITY BENCH 32"X26"	6	YES	SG-20		ALL STATIONS
E27	FINE AGGREGATE SIEVE	6	YES			ALL STATIONS
E28	COARSE SIEVE	6	YES	TS-2	GILSON	ALL STATIONS
E29	AGGREGATE SIEVE DUMP TABLE	6	YES			ALL STATIONS
E30	TUB UNDER GRAVITY BENCH	6	YES			ALL STATIONS / UNDER GRAVITY BENCH
E31	DESPATCH OVEN	1	YES	LBB2-27-1 SN: 169782		134 OVENS
E32	GRIEVE OVEN 82"X44"	1	YES	SA-400 SN: 108255B0113		134 OVENS
E33	GRIEVE OVEN 43"X48"	1	YES	343 SN: 108255A0113		134 OVENS
E34	PINE GYRATORY COMPACTOR	1	YES	AFG2A SN: 8572		123 STATION 1 / BY BACK DOOR
E35	TROXLER GYRATORY COMPACTOR	1	YES	5850 SN: 2009 65015		124 STATION 4 / BY BACK DOOR
E36	IDEAL CT MACHINE	1	YES	SMARTLOADER	INSTROTEK	128 STATION 6
E37	CONCRETE HYDRAULIC COMPRESSION	1	YES	F-25-EX-E-DR500 SN: 10025	FORNEY	137 SHIPPING & RECEIVING
E38	MATERIAL STORAGE	1	YES	-	-	139 STORAGE
E39	SOIL EQUIPMENT	1	YES	-	-	139 STORAGE
E40	SCALES,SCOPES,SIEVES, ECT.	1	YES	-	-	139 STORAGE / STORED INSIDE STORAGE TOTES
E41	SHOVELS (4 TO A STACK)	12	YES	-	-	139 STORAGE
E42	AIR METERS	10	YES	-	-	ALL STATIONS / ON TABLE
E43	STORAGE TOTES (5 TO A STACK)	40	YES	-	-	139 STORAGE
E44	WHEEL BARROWS	6	YES	-	-	139 STORAGE
E45	MECHANICAL WASHERS	6	YES	TL3214		135 SINKS
E46	WALL HOOKS FOR SHOVEL STORAGE	1	NO	RHSTGRK TOOL STORAGE RACK	RIGHT HAND	139 STORAGE
E47	ASPHALT IGNITION OVEN	1	YES			128 STATION 6
E48	STAINLESS STEEL TABLE 32"X72"	2	YES			128 STATION 6 & 131 RESIDENCY LAB

1

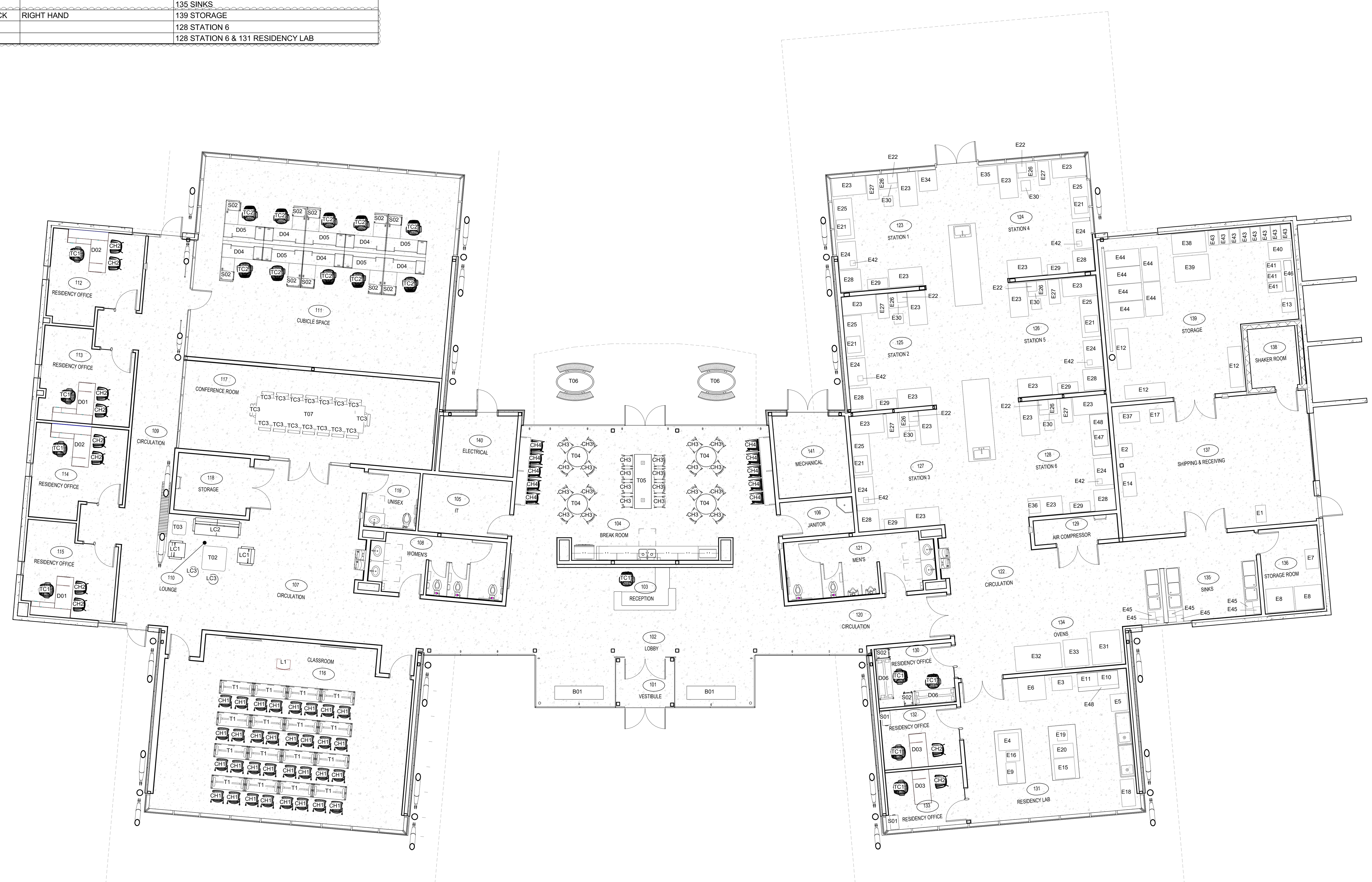
Furniture Schedule

Type Mark	Description	Notes	Count
B01	BENCH		2
CH1	NESTING CHAIR		32
CH2	GUEST CHAIR		10
CH3	BREAKROOM CHAIR		24
CH4	BREAKROOM STOOL		10
D01	RIGHT HANDED DESK		2
D02	LEFT HANDED DESK		2
D03	DESK		2
D04	LEFT HANDED DESK		5
D05	RIGHT HANDED DESK		5
D06	MOBILE TABLE		2
L1	LECTERN		1
LC1	LOUNGE CHAIR		2
LC2	SOFA		1
LC3	UPHOLSTERED STOOL		2
S01	FILE CABINET		2
S02	MOBILE PEDESTAL		12
T1	TRAINING TABLE		16
T02	COFFEE TABLE		1
T03	SIDE TABLE		1
T04	ROUND TABLES		4
T05	RECTANGULAR TABLE		1
T06	OUTDOOR TABLE		2
T07	EXISTING CONFERENCE TABLE	OWNER PROVIDED AND INSTALLED	1
TC1	TASK CHAIR		9
TC2	TASK CHAIR		10
TC3	EXISTING TASK CHAIRS	OWNER PROVIDED AND INSTALLED	16

GENERAL NOTES - FURNITURE & EQUIPMENT

1" = 1'-0"

1. GC TO COORDINATE FURNITURE AND EQUIPMENT FINAL LOCATIONS, ELECTRICAL, AND DATA REQUIREMENTS WITH THE OWNER.
2. GC TO CONFIRM ELECTRICAL AND DATA REQUIREMENTS FOR ALL FURNITURE AND EQUIPMENT WITH THE ELECTRICAL ENGINEER PRIOR TO CONSTRUCTION.



1 FFE FLOOR PLAN

1/8" = 1'-0"

CEC

01/21/2026

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DRAWN BY:	HRS
REVIEWED BY:	SS
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STILLWATER, OK

SHEET

FFE PLAN

SHEET

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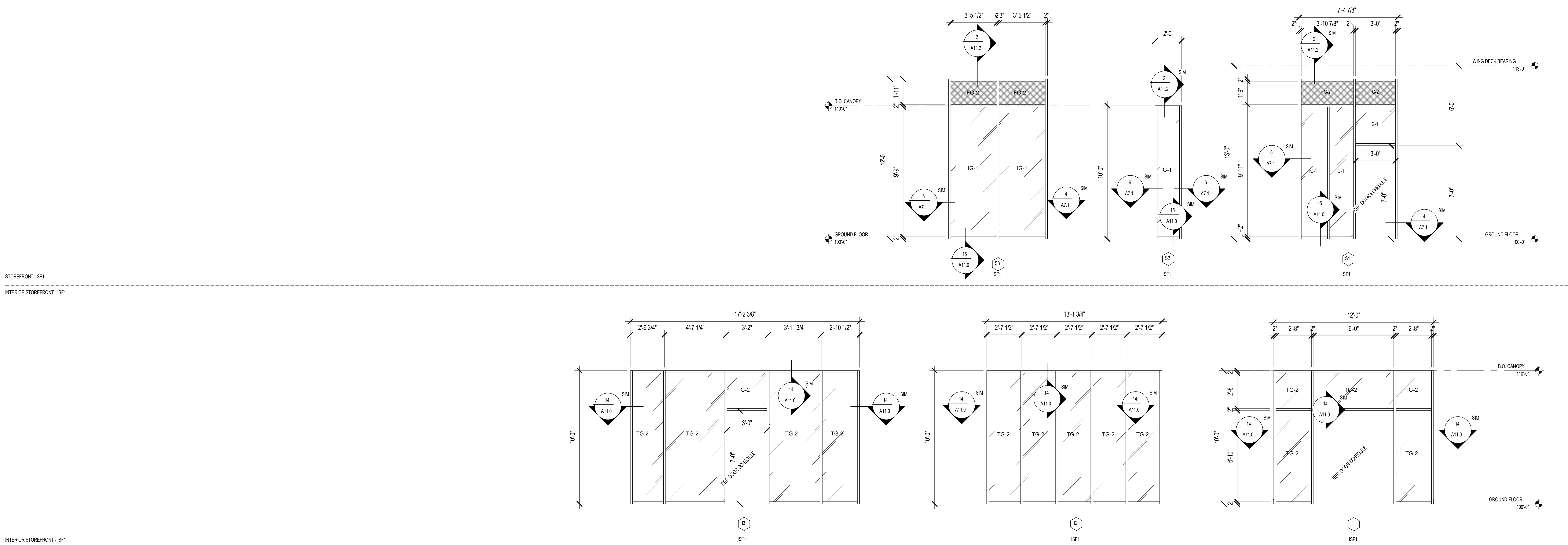
PLOT DATE: 1/20/2026 10:26:45 PM



GENERAL NOTES - FRAME TYPES

1. WINDOW FRAME TYPE ELEVATIONS ARE EXTERIOR VIEWS

FRAME TYPE LEGEND

CW1 CURTAINWALL 1
KAWNEER
1600 WALL SYSTEM 1 CURTAINWALL
7 1/2" DEPTH - FRONT SET - EXTERIOR GLAZED,
*EXTERIOR CORNERS ARE SSG 1600 WALLSYSTEM 2 CURTAINWALL

SF1 STOREFRONT SYSTEM
KAWNEER
TRIFAB VERSAGLAZE 601T FRAMING SYSTEM
6" DEPTH- CENTER SET - EXTERIOR GLAZED

SGS1 SPECIALTY GLAZED FACADE STRUCTURE
NOVUM STRUCTURES
REFER TO SPECS

ISF1 INTERIOR STOREFRONT SYSTEM
KAWNEER
TRIFAB VERSAGLAZE 450 FRAMING SYSTEM
1-3/4" SIGHTLINE - 4 1/2" DEPTH - CENTER SET - 1/4" GLAZING

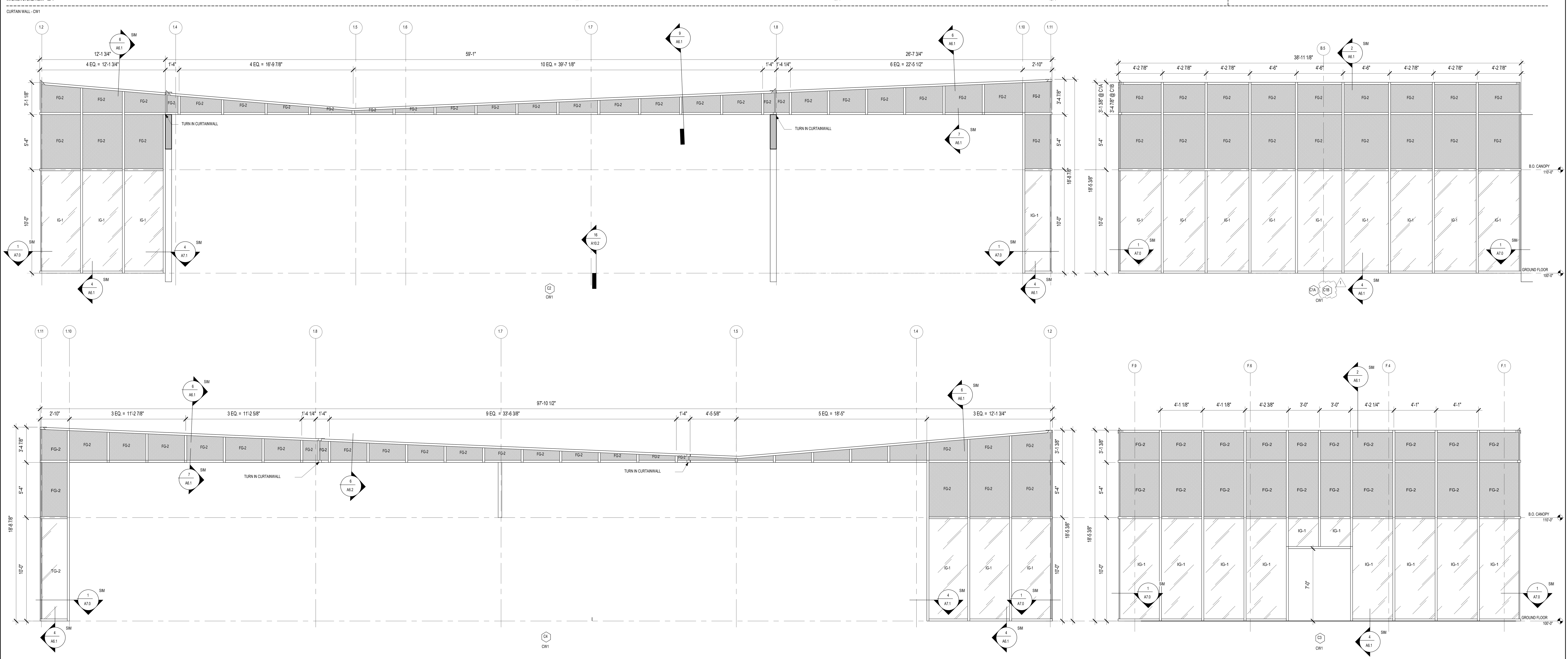
EXTERIOR GLAZING LEGEND

IG-1 - RE. SPECS

TG-2 - RE. SPECS

FG-2 - RE. SPECS

NOTE: ALL GLASS TO BE TEMPERED



CEC CORPORATION
WWW.CONNECTCEC.COM
OK CA#: 32 EXP.: 2026-06-30

OKLAHOMA Transportation

STATE OF OKLAHOMA
Joshua S. Hill
5663
Oklahoma city
LICENSED ARCHITECT
01/21/2026

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1	ADDENDUM NO. 1	01-21-2026

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DRAWN BY:	IM
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ODOT OSU MULTIPURPOSE FACILITY
STILLWATER, OK

SHEET
FRAME TYPES

SHEET
A11.1

PLOT DATE: 1/20/2026 10:26:48 PM

GENERAL NOTES - FRAME TYPES

1. WINDOW FRAME TYPE ELEVATIONS ARE EXTERIOR VIEWS

FRAME TYPE LEGEND

CW1 CURTAINWALL 1
KAWNEER
1600 WALL SYSTEM 1 CURTAINWALL
7 1/2" DEPTH - FRONT SET - EXTERIOR GLAZED,
*EXTERIOR CORNERS ARE SSG 1600 WALLSYSTEM 2 CURTAINWALL

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REFER TO SPECS

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KAWNEER
TRIFAB VERSAGLAZE 450 FRAMING SYSTEM
1-3/4" SIGHTLINE - 4 1/2" DEPTH - CENTER SET - 1/4" GLAZING

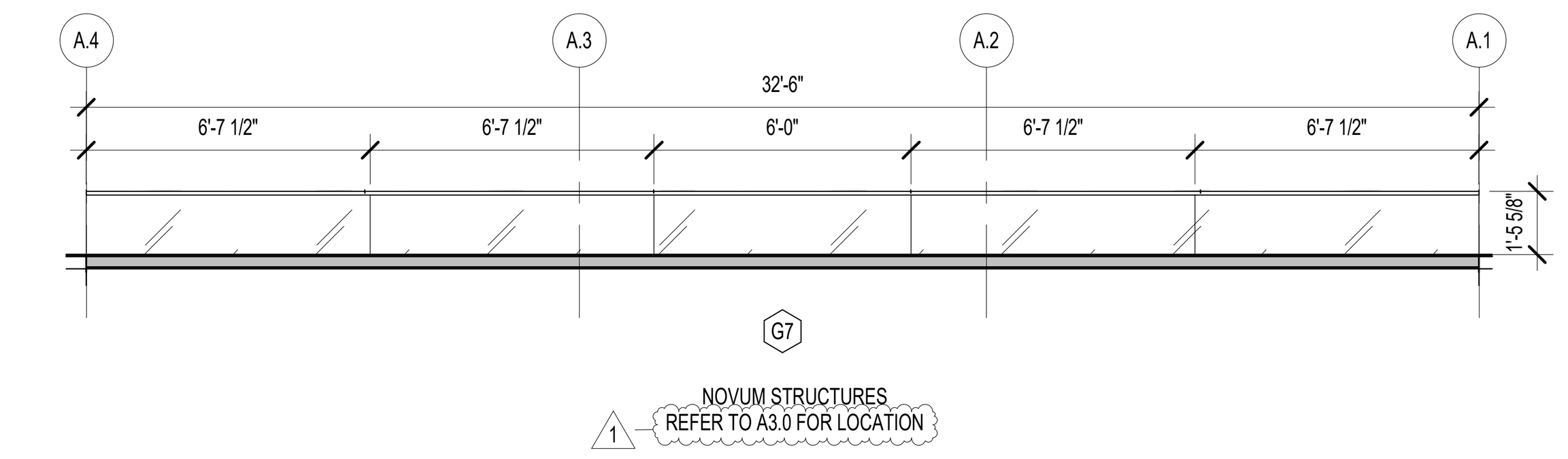
EXTERIOR GLAZING LEGEND

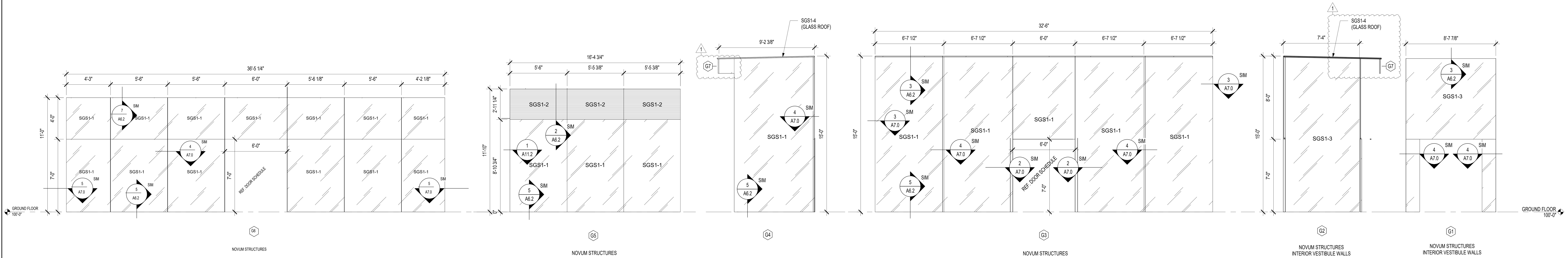
SGS1-1 - RE. SPECS

SGS1-2 - RE. SPECS

SGS1-3 - RE. SPECS

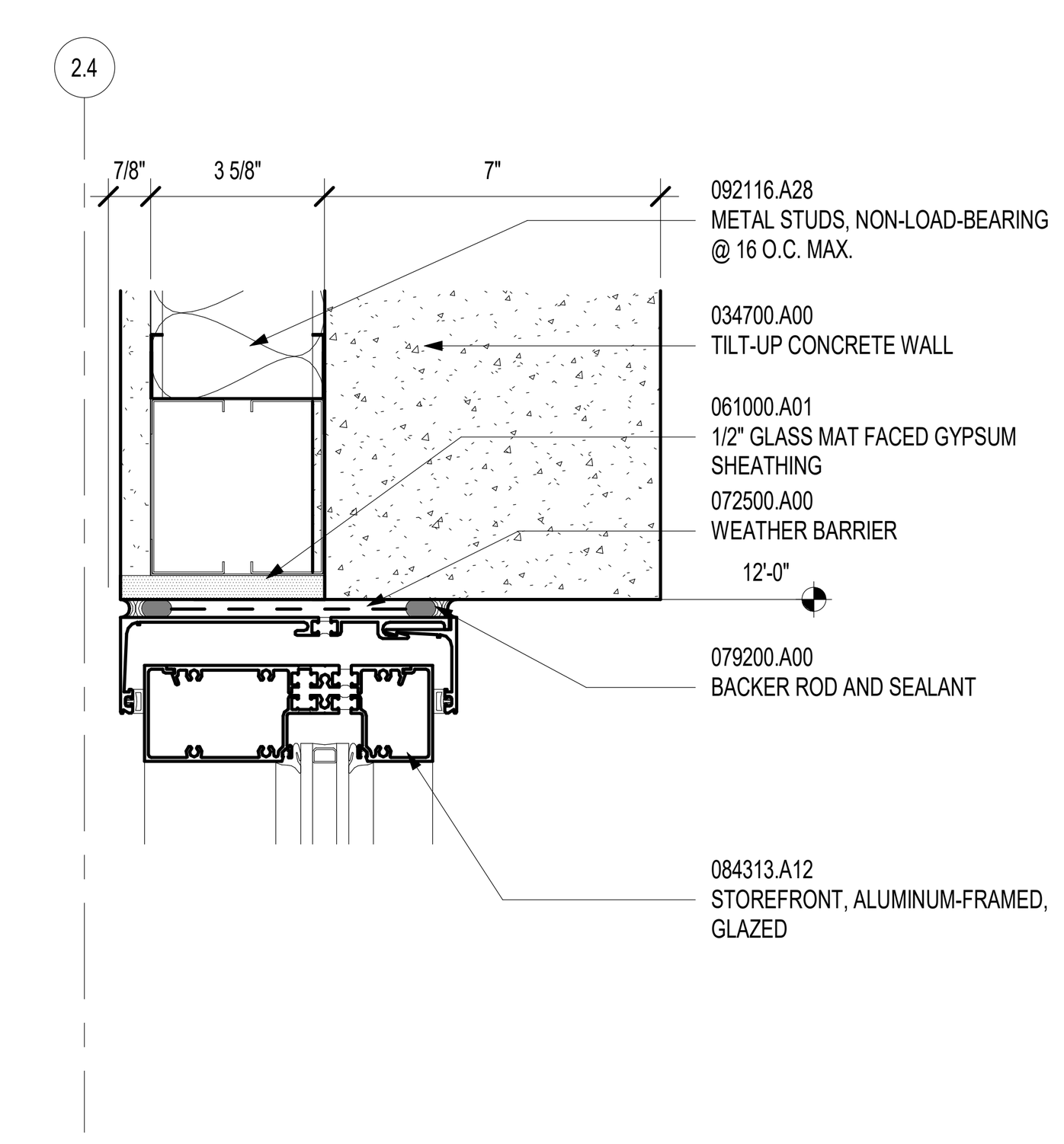
NOTE: ALL GLASS TO BE TEMPERED



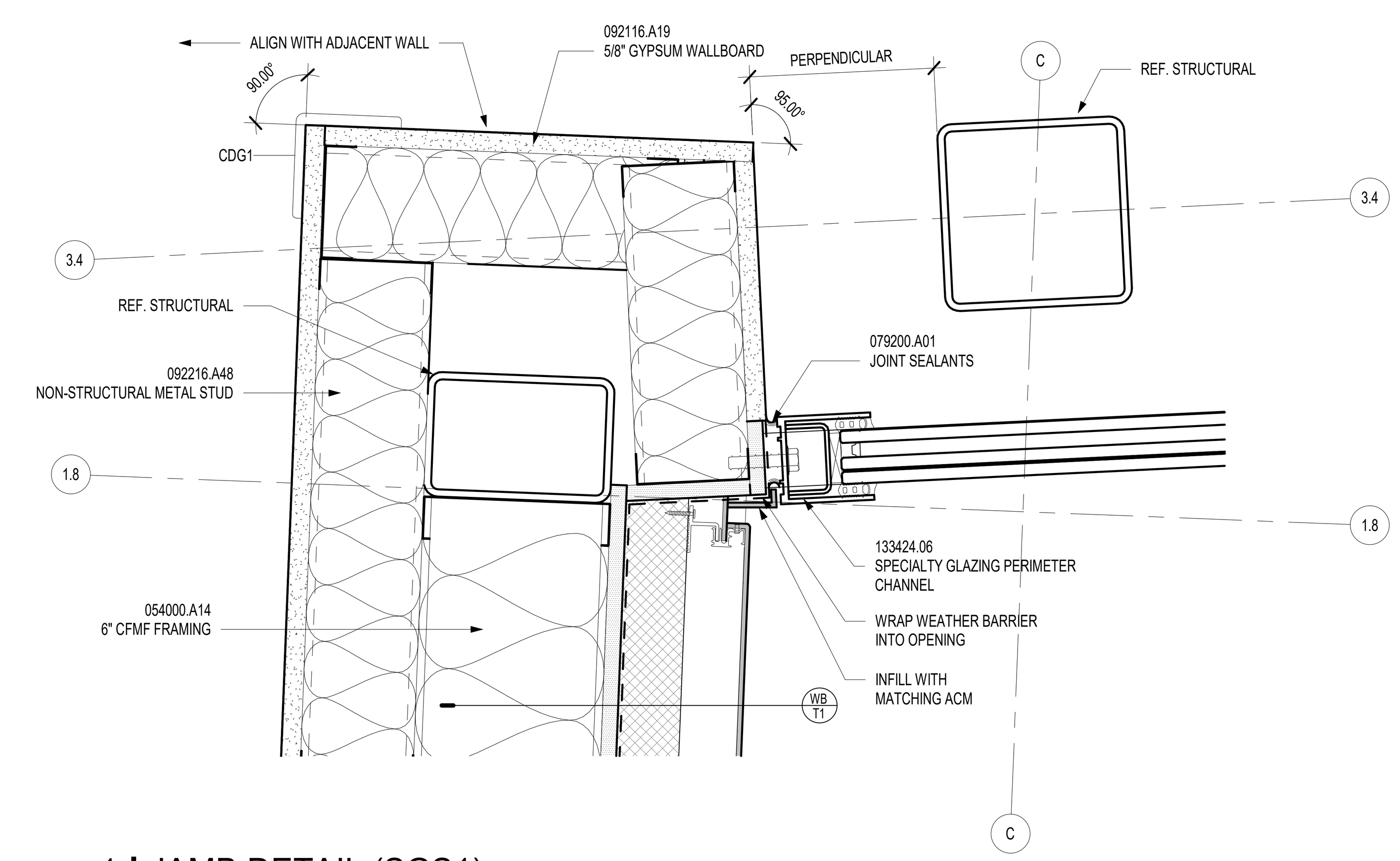


FRAME TYPES - NOVUM STRUCTURES - ISF1

FRAME DETAILS



2 HEAD DETAIL (TILT-UP)
3" = 1'-0"



1 JAMB DETAIL (SGS1)
3" = 1'-0"

PLOT DATE: 1/20/2026 10:26:49 PM

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01/21/2026

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ODOT OSU MULTIPURPOSE FACILITY

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SHEET

FRAME TYPES AND FRAME DETAILS

SHEET

A11.2

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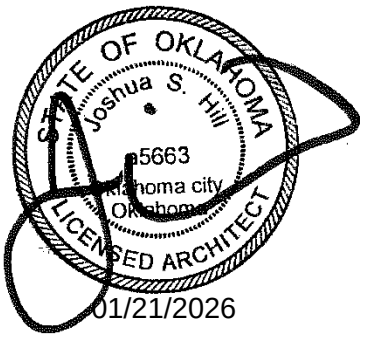


SECTION 05 5133
METAL LADDERS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Shop-fabricated metal ladders.

B. Prefabricated ladders.

1.02 RELATED REQUIREMENTS

A. Section 09 9123 - Interior Painting: Paint finish.

1.03 REFERENCE STANDARDS

A. 29 CFR 1910.23 - Ladders; Current Edition.

B. 29 CFR 1926.1053 - Ladders; Current Edition.

C. AAMA 611 - Specification for Anodized Architectural Aluminum; 2024.

D. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.

E. ANSI A14.3 - American National Standard for Ladders -- Fixed -- Safety Requirements; 2008 (Reaffirmed 2018).

F. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.

G. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.

H. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless; 2022.

I. ASTM A283/A283M - Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates; 2018.

J. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2021.

K. ASTM B26/B26M - Standard Specification for Aluminum-Alloy Sand Castings; 2018, with Editorial Revision.

L. ASTM B85/B85M - Standard Specification for Aluminum-Alloy Die Castings; 2018, with Editorial Revision.

M. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.

N. ASTM B210/B210M - Standard Specification for Aluminum and Aluminum-Alloy Drawn Seamless Tubes; 2019a.

O. ASTM B211/B211M - Standard Specification for Aluminum and Aluminum-Alloy Rolled or Cold Finished Bar, Rod, and Wire; 2019.

P. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi and 150 ksi Minimum Tensile Strength, and Metric Dimensions 830 MPa and 1040 MPa Minimum Tensile Strength; 2023.

Q. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; 2020.

R. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification; 2021, with Errata (2023).

S. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2020, with Errata (2023).

T. AWS D1.2/D1.2M - Structural Welding Code - Aluminum; 2014, with Errata (2020).

U. IAS AC172 - Accreditation Criteria for Fabricator Inspection Programs for Structural Steel AC172; 2019.

V. SSPC-Paint 15 - Steel Joist Shop Primer/Metal Building Primer; 2004.

W. SSPC-Paint 20 - Zinc-Rich Coating (Type I - Inorganic, and Type II - Organic); 2019.

X. SSPC-SP 2 - Hand Tool Cleaning; 2024.

1.04 SUBMITTALS

A. See Section 01 3300-Submittal Procedures for submittal procedures.

B. Shop Drawings:
   1. Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.
   2. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.

C. Welders' Qualification Statement: Welders' certificates in accordance with AWS B2.1/B2.1M and dated no more than 12 months before start of scheduled welding work.

1.05 QUALITY ASSURANCE

A. Welder Qualifications: Welding processes and welding operators qualified in accordance with AWS D1.1/D1.1M and AWS D1.2/D1.2M and dated no more than 12 months before start of scheduled welding work.

B. Fabricator Qualifications: A qualified steel fabricator that is accredited by IAS AC172.

PART 2 PRODUCTS

2.01 MATERIALS - STEEL

A. Steel Sections: ASTM A36/A36M.

B. Plates: ASTM A283/A283M.

C. Pipe: ASTM A53/A53M, Grade B Schedule 40, black finish.

D. Mechanical Fasteners: Same material or compatible with materials being fastened; type consistent with design and specified quality level.

E. Bolts, Nuts, and Washers: ASTM A307, plain.

F. Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1, plain.

G. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.

H. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.

I. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20, Type I - Inorganic, complying with VOC limitations of authorities having jurisdiction.

2.02 MATERIALS - ALUMINUM

A. Extruded Aluminum: ASTM B211/B211M, 6063 alloy, T6 temper.

B. Sheet Aluminum: ASTM B209/B209M, 5052 alloy, H32 or H22 temper.

C. Aluminum-Alloy Drawn Seamless Tubes: ASTM B210/B210M, 6063 alloy, T6 temper.

D. Aluminum-Alloy Bars: ASTM B211/B211M, 6061 alloy, T6 temper.

E. Aluminum-Alloy Sand Castings: ASTM B26/B26M.

F. Aluminum-Alloy Die Castings: ASTM B85/B85M .

G. Bolts, Nuts, and Washers: Stainless steel.

H. Welding Materials: AWS D1.2/D1.2M; type required for materials being welded.

2.03 FABRICATION

A. Fit and shop assemble items in largest practical sections, for delivery to site.

B. Fabricate items with joints tightly fitted and secured.

C. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.

D. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.

2.04 FABRICATED LADDERS

A. Ladders: Steel; in compliance with ANSI A14.3; with mounting brackets and attachments; prime paint finish.
   1. Side Rails: 3/8 by 2 inches members spaced at 20 inches.
   2. Rungs: One inch diameter solid round bar spaced 12 inches on center.
   3. Space rungs 7 inches from wall surface.

2.05 FINISHES - STEEL

A. Prime paint steel items.
   1. Do not prime surfaces in direct contact with concrete.
   2. Do not prime surfaces where field welding is required.

B. Prepare surfaces to be primed in accordance with SSPC-SP2.

C. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.

D. Prime Painting: One coat.

E. Galvanizing of Non-structural Items: Galvanize after fabrication to ASTM A123/A123M requirements.

2.06 FINISHES - ALUMINUM

A. Exterior Aluminum Surfaces: Class I natural anodized.

B. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 Clear anodic coating not less than 0.7 mils thick.

2.07 FABRICATION TOLERANCES

A. Squareness: 1/8 inch maximum difference in diagonal measurements.

B. Maximum Offset Between Faces: 1/16 inch.

C. Maximum Misalignment of Adjacent Members: 1/16 inch.

D. Maximum Bow: 1/8 inch in 48 inches.

E. Maximum Deviation From Plane: 1/16 inch in 48 inches.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive work.

3.02 PREPARATION

A. Clean and strip primed steel items to bare metal where site welding is required.

3.03 INSTALLATION

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

B. Provide for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.

C. Obtain approval prior to site cutting or making adjustments not scheduled.

3.04 TOLERANCES

A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.

B. Maximum Offset From True Alignment: 1/4 inch.

C. Maximum Out-of-Position: 1/4 inch.

END OF SECTION

SECTION 06 2000
FINISH CARPENTRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Finish carpentry items.

B. Hardware.

C. Shop finishing.

1.02 REFERENCE STANDARDS

A. AWI (QCP) - Quality Certification Program; Current Edition.

B. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).

C. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.

D. HPVA HP-1 - American National Standard for Hardwood and Decorative Plywood; 2020.

E. NHLA G-101 - Rules for the Measurement and Inspection of Hardwood and Cypress; 2023.

1.03 SUBMITTALS

A. See Section 01 3300-Submittal Procedures for submittal procedures.

B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
   1. Include certification program label.

C. Samples: Submit two samples of finished wood, 12x12 inch in size illustrating wood grain and specified finish.

D. Samples: Submit two samples of wood trim 6 inch long illustrating specified finish.

1.04 QUALITY ASSURANCE

A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
   1. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.

B. Quality Certification:
   1. Comply with AWI (QCP) woodwork association quality certification service/program in accordance with requirements for work specified in this section: www.awiqcp.org/#sle. Or provide quality that matches.
   2. Provide labels or certificates indicating that work complies with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade or grades specified.
   3. Provide designated labels on shop drawings as required by certification program.
   4. Provide designated labels on installed products as required by certification program.
   5. Submit certifications upon completion of installation that verifies this work is in compliance with specified requirements.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Store finish carpentry items under cover, elevated above grade, and in a dry, well-ventilated area not exposed to heat or sunlight.

B. Protect from moisture damage.

C. Handle materials and products to prevent damage to edges, ends, or surfaces.

PART 2 PRODUCTS

2.01 FINISH CARPENTRY ITEMS

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), or quality to match.

B. Surface Burning Characteristics: Provide materials having fire and smoke properties as required by applicable code.

C. Interior Woodwork Items:
   1. Custom fabrications indicated in drawings (Built in Bench): Walnut species; prepare for transparent finish.

2.02 LUMBER MATERIALS

A. Hardwood Lumber: Walnut species, rift sawn, maximum moisture content of 6 percent ; with vertical grain , of quality suitable for transparent finish.
   1. Grading: In accordance with NHLA G-101 Grading Rules; www.nhla.com.

2.03 FASTENINGS

A. Adhesive for Purposes Other Than Laminate Installation: Suitable for the purpose; not containing formaldehyde or other volatile organic compounds.

B. Fasteners: Of size and type to suit application; any finish in concealed locations and matching finish in exposed locations.

C. Concealed Joint Fasteners: Threaded steel.

2.04 ACCESSORIES

A. Adhesive: Type recommended by fabricator to suit application.

B. Screw Covers: Solid Brass Screw Covers. Basis of Design: Solid Brass 1" Diameter Round Flat Screw Cover in Polished Chrome by Deltana.

C. Wood Filler: Solvent base, tinted to match surface finish color.

2.05 FABRICATION

A. Shop assemble work for delivery to site, permitting passage through building openings.

B. Fit exposed sheet material edges with 3/8 inch matching hardwood edging. Use one piece for full length only.

C. Shop prepare and identify components for book match grain matching during site erection.

D. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

2.06 SITE-FINISHING MATERIALS

A. Finishing: Field finished as specified in section 09 9123.

2.07 SHOP FINISHING

A. Sand work smooth and set exposed nails and screws.

B. Apply wood filler in exposed nail and screw indentations.

C. On items to receive transparent finishes, use wood filler that matches surrounding surfaces and is of type recommended for the applicable finish.

D. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:
   1. Transparent:
      a. System - 1, Lacquer, Nitrocellulose.
      b. Stain: As selected by Architect.
      c. Sheen: Flat.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify adequacy of backing and support framing.

3.02 INSTALLATION

A. Install custom fabrications in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.

B. Install factory-fabricated units in accordance with manufacturer's printed installation instructions.

C. Set and secure materials and components in place, plumb and level.

D. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.

3.03 PREPARATION FOR SITE FINISHING

A. Set exposed fasteners. Apply wood filler in exposed fastener indentations. Sand work smooth.

B. Before installation, prime paint surfaces of items or assemblies to be in contact with cementitious materials.

3.04 TOLERANCES

A. Maximum Variation from True Position: 1/16 inch.

B. Maximum Offset from True Alignment with Abutting Materials: 1/32 inch.

END OF SECTION

SECTION 08 9200
LOUVERED EQUIPMENT ENCLOSURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Louvered aluminum screens.

B. Louvered metal screens.

1.02 RELATED REQUIREMENTS

A. Section 07 5200 - Modified Bituminous Membrane Roofing: Treating penetrations for support of rooftop screens.

1.03 REFERENCE STANDARDS

A. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.

1.04 SUBMITTALS

A. See Section 01 3300-Submittal Procedures for submittal procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Storage and handling requirements and recommendations.
   2. Installation methods.

C. Shop Drawings: Include plans, sections, and details of connections and bracing.

D. Verification Samples: Two samples, minimum size 8 inches square, representing actual product configuration, color, and texture.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products of the type specified in this section, with not less than ten years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Comply with manufacturer's instructions for handling of screen products.

1.07 WARRANTY

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

B. Finish Warranty: Provide 10-year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking. Complete forms in Owner's name and register with warrantor.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Louvered Equipment Enclosures:
   1. **Basis of Design: CityScapes Inc: www.cityscapesinc.com/#sle.**
      a. Roof Screen: Envisor, Unit attached model.
      b. Dumpster Enclosure: Corvit Dumpster Enclosures
      c. Site Fencing: Corvit Gates & Walls, reference Civil for location.
   2. Substitutions: See Section 01 6000 - Product Requirements.

2.02 APPLICATIONS

A. Screens for concealing equipment and site elements.

2.03 PERFORMANCE REQUIREMENTS

2.04 METAL PANEL SCREENS

A. Overall Screen Configuration: Dimensions, details, and layout per basis of design mfgr.

B. Construction: Vertical Aluminum channel frames attached to posts with fixed vertical ribbed aluminum panel.
   1. Roof Screen
      a. Model: Envisor, Unit attached model.
      b. Infill Option: Vertical Perforated 7.2 Rib
   2. Dumpster Enclosure
      a. Model: Single with Walk-In
      b. Infill Option: 7.2 Rib Vertical
   3. Site Fencing, reference Civil for location.
      a. Model: Corvit Gates & Walls
      b. Infill Option: 7.2 Rib Vertical
   4. Fasteners: As recommended by manufacturer.

C. Finish: Powder coat factory finish posts, rails, panels and accessories.
   1. Color: As selected from manufacturer's standard colors.
   2. Post Cap: Shallow Hip (Metal)

2.05 ALUMINUM FINISHES

A. Superior Performing Organic Coatings System: Manufacturer's standard multi-coat superior performing organic coatings system complying with AAMA 2605, including at least 70 percent polyvinylidene fluoride (PVDF) resin, and at least 80 percent of aluminum extrusion and panels surfaces having minimum total dry film thickness (DFT) of 1.2 mils, 0.0012 inch.

B. Touch-Up Materials: As recommended by coating manufacturer for field application.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 INSTALLATION

A. Install equipment screens in accordance with manufacturer's printed instructions and as indicated on shop drawings.

B. Form tight joints and fit exposed connections accurately.

C. Provide necessary fastenings and anchors required for a complete installation, and install units plumb, level, and in proper alignment with adjacent work.

3.04 PROTECTION

A. Protect installed products until completion of project.

B. Protect metal surfaces from corrosion or galvanic action by application of a heavy coating of bituminous paint on surfaces that will be in contact with concrete, masonry or dissimilar metals.

C. Touch-up, repair, or replace damaged products before Date of Substantial Completion.

END OF SECTION

SECTION 09 9123
INTERIOR PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.

B. Field application of paints and stain.

C. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
   1. Mechanical and Electrical:
      a. In finished areas, paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment, unless otherwise indicated.

D. Do Not Paint or Finish the Following Items:
   1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
   2. Items indicated to receive other finishes.
   3. Items indicated to remain unfinished.
   4. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
   5. Stainless steel, anodized aluminum, bronze, terne-coated stainless steel, and lead items.
   6. Marble, granite, slate, and other natural stones.
   7. Floors, unless specifically indicated.
   8. Ceramic and other tiles.
   9. Glass.
   10. Acoustical materials, unless specifically indicated.
   11. Concealed pipes, ducts, and conduits.

1.02 REFERENCE STANDARDS

A. ASTM D4258 - Standard Practice for Surface Cleaning Concrete for Coating; 2023.

B. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials; 2020.

C. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.

D. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016).

E. SSPC-SP 6 - Commercial Blast Cleaning; 2007.

1.03 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide complete list of products to be used, with the following information for each:
   1. Manufacturer's name, product name and/or catalog number, and general product category (e.g., "alkyd enamel").
   2. MPI product number (e.g., MPI #47).
   3. Cross-reference to specified paint system products to be used in project; include description of each system.

C. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.
   1. Where sheen is specified, submit samples in only that sheen.

D. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.

1. See Section 01 6000 - Product Requirements, for additional provisions.
2. Extra Paint and Finish Materials: 1 gal of each color; from the same product run, store where directed.
3. Label each container with color in addition to the manufacturer's label.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum three years documented experience.

B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum five years experience and approved by manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.06 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

C. Do not apply materials when relative humidity exceeds 85 percent, at temperatures less than 5 degrees F above the dew point, or to damp or wet surfaces.

D. Minimum Application Temperatures for Paints: 50 degrees F for interiors unless required otherwise by manufacturer's instructions.

E. Provide lighting level of 80 fc measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.

2.02 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.
1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Supply each paint material in quantity required to complete entire project's work from a single production run.
3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.

2.03 PAINT SYSTEMS - INTERIOR

A. Ferrous hollow metal doors, frames, miscellaneous metal, Semi-gloss finish
1. 1st coat: SW Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series (5.0 mils, wet, 2.0 mils, dry per coat)
2. 2nd coat: SW Pro Industrial Waterbased Alkyd Urethane Enamel Semi-Gloss, B53-2150/5150 Series.

3. 3rd coat: SW Pro Industrial Waterbased Alkyd Urethane Enamel Semi-Gloss, B53-2150/5150 Series (4.0-5.0 mils, wet, 1.4-1.7 mils. dry per coat).
4. Manufacturer: Sherwin Williams
    a. Substitutions: See Section 01 6000 - Product Requirements

B. Gypsum Board; Ceilings, walls and similar items:
1. Eg-Shel/Satin Finish: High Performance (HP)
    a. 1st coat: SW ProMar 200 Zero VOC Interior Latex Primer, B28W12600 (4 mils, wet, 1.5 mils, dry per coat).
    b. 2nd coat: SW ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
    c. 3rd coat: SW ProMar 200 HP Zero VOC Latex Eg-Shel B20-1900 Series (4 mils, wet, 1.7 mils, dry per coat).
2. Flat Finish: Ceilings
    a. 1st coat: SW ProMar 200 Zero VOC Interior Latext Primer, B28W12600 (4 mils, wet, 1.5 mils. dry per coat)
    b. 2nd coat: Sw ProMar 200 Zero VOC Latex Flat, B30-Series
    c. 3rd coat: SW ProMar 200 Zero VOC Latex Flat, B30-Series (4 mils. wet, 1.6 mils. dry per coat).
3. Manufacturer: Sherwin Williams
    a. Substitutions: See Section 01 6000- Product Requirements

C. Drywall: Walls, ceilings, gypsum board - Restrooms, Janitor, Drinking Fountains
1. Epoxy
2. Semi-gloss finish:
    a. 1st coat: SW ProMar 200 Zero VOC Interior Latex Primer, B28W12600 (4 mils, wet, 1.5 mils, dry per coat).
    b. 2nd coat: SW Pro Industrial Pre-Catalyzed Waterbased Epoxy, K46-Series
    c. 3rd coat: SW Pro Industrial Per-Catalyzed Waterbased Epoxy K46-Series (4 mils, wet, 1.5 mils. dry per coat).

D. Exposed Structure
1. Flat finish
2. 1st coat: SW Pro Industrial Pro-Cryl Universal Primer, B66-1300 Series (5.0 mils. wet, 2.0 mils, dry per coat)
3. 2nd coat: SW Pro Industrial Waterborne Acrylic Dryfall, B42W2182.

E. Concrete: block
1. Latex Systems:
2. Eg-Shel/Satin Finish: High Performance (HP)
    a. 1st coat: SW Loxon Concrete and Masonry Primer Sealer, LX02W50 (8 mils. wet, 3.2 mils. dry per coat).
    b. 2nd coat: SW ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
    c. 3rd coat: SW ProMar 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series. (4 mils. wet, 1.7 mils, dry per coat).

F. Sealed Concrete, one coat:
1. Finish: Cemlack Concrete Sealer
2. Manufacturer: Sherwin Williams
    a. Substitutions: See Section 01 6000 - Product Requirements.

G. Stained Wood: Stain and Varnish System.
1. Satin Finish:
2. 1st Coat: Sher-Wood BAC Wiping Stain
3. Finish: 1-2 Coats Sher-Wood Water White Conversion Varnish

2.04 ACCESSORY MATERIALS

A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin application of paints and finishes until substrates have been adequately prepared.

B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

D. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

E. Test shop-applied primer for compatibility with subsequent cover materials.

F. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces is below the following maximums:
   1. Gypsum Wallboard: 12 percent.
   2. Masonry, Concrete, and Concrete Masonry Units: 12 percent.
   3. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
   4. Concrete Floors and Traffic Surfaces: 8 percent.

3.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Remove or repair existing paints or finishes that exhibit surface defects.

D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.

E. Seal surfaces that might cause bleed through or staining of topcoat.

F. Masonry:
   1. Prepare surface as recommended by top coat manufacturer.

G. Gypsum Board: Fill minor defects with filler compound. Spot prime defects after repair.

H. Ferrous Metal:
   1. Solvent clean according to SSPC-SP 1.
   2. Remove rust, loose mill scale, and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 Commercial Blast Cleaning. Protect from corrosion until coated.

I. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

3.03 APPLICATION

A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

B. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".

C. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.

D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

E. Apply each coat to uniform appearance in thicknesses specified by manufacturer.

F. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

G. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.04 FIELD QUALITY CONTROL

A. See Section 01 4000 - Quality Requirements, for general requirements for field inspection.

3.05 CLEANING

A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.06 PROTECTION

A. Protect finishes until completion of project.

B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION

SECTION 13 3424
SPECIALTY GLAZED FAÇADE STRUCTURE

PART 1 - GENERAL

1.01 SCOPE

A. Comply with all requirements of Division 1.

B. Work under this section is the responsibility of the Specialty Glazed Structure Contractor and consists of furnishing everything necessary for and incidental to the execution and completion of the point supported structural glass system, AESS steel, and accessory work. The complete System shall be purchased from the Specialty Glazed Structure Contractor as a single source.

C. The General Contractor as used herein refers to the entity contracting for the structural glazing.

1.02 DESCRIPTION OF WORK

A. The extent of the point supported structural glazing, AESS steel, and associated work as defined above and as shown on the architectural and structural drawings, in the bid documents, and the resulting approved shop drawings and structural calculations of the Specialty Glazed Structure Contractor.

B. The work includes the following:
   1. Engineering design of the structural glazing, AESS steel (using Advance Fabricated Sections AFS where shown), and accessory parts by the Specialty Glazed Structure Contractor, including structural calculation submittals.
   2. Fabrication, packaging, and delivery to job site.
   3. Installation by an installer approved by the Specialty Glazed Structure Contractor or under the direction of a technical advisor of that Contractor.

1.03 QUALITY ASSURANCE

A. Specialty Glazed Structure Contractor Qualifications:
   1. The Specialty Glazed Structure Contractor shall provide in-house services which include engineering and installation service for the structural glazing and AESS steel as a single entity. Other than subcontracting by the Specialty Glazed Structure Contractor, subcontracting with outside sources for any of these services is not acceptable. The assembly of joint ventures to provide these services is also not acceptable.
   2. Project shall be tendered by, contracted for and managed directly by the Specialty Glazed Structure Contractor. Tenders or project management by a sales agent, intermediary, glazing contractor, agent or distributor of the listed Specialty Glazed Structure Contractor will not be acceptable. The General Contractor must contract this work from the preapproved Specialty Glazed Structure Contractors as listed under this section directly and not through an intermediary. No exceptions.
   3. Provide product details, as necessary pre-bid, to demonstrate full compliance with the documents and visual/quality standards established under Section 2.03, noting exceptions where applicable.
   4. Must have ISO certification PRIOR to bid without exception. Proof of ISO certification must be submitted with bidding proposal.
   5. Must submit proposed details, preliminary engineering confirming proposed sizes of glass and structural members and all loading reactions to the perimeter structure adjacent to this scope of work.
   6. Pre-Qualification data is required no later than ten (10) days before bid. Only pre-approved companies (referred to herein as Specialty Glazed Structure Contractors) demonstrating equivalence in every aspect of the specifications shall be allowed to bid the work. Items as specified in Section 1.03 shall be provided to demonstrate capabilities and experience. Also include a list of at least 10 completed projects using the specified systems or equal. All submitted projects must demonstrate the inclusion, under one contract, of supply and installation of point supported glazing and steel support system.

For each project, submit photographs showing detail of installations. Proof of five (5) years of relevant experience and the financial ability to perform is a minimum requirement.

7. Only those companies listed under paragraph 2.03.A have been approved to bid this work. Others seeking to gain approval must provide the data indicated under 1.03. The Architect's decision to grant approval shall be final. All approvals shall be made in writing and evidence shall be provided via an addendum prior to bid.

B. Safety Glass:
   1. Where safety glass is indicated or required by authorities having jurisdiction, provide the types of products that comply with ANSI Z97.1 and CPSC 16 CFR 1201 Category II.
   2. If the Architect creates a design necessitating using safety glass or other requirements in accordance with governing authorities/codes/laws/jurisdictions/industry standards, the Specialty Glazed Structure Contractor shall be informed of such requirements by the Architect or General Contractor, as applicable, to ensure such requirements are included in the Specialty Glazed Structure Contractors Engineering calculations.

1.04 SUBMITTALS

A. Structural Calculations: Prior to fabrication of the structural glazing, submit calculations prepared in accordance with current rules for structural glazing and applicable codes as called for by the Project Engineer. Include analysis and engineering for all combinations of load cases such as live, dead, wind, thermal, snow, seismic, etc…
   1. Supply structural reactions in each axis, at each typical support, for review and acceptance by the Project Engineer, and the maximum glass deflections in all axis.
   2. Supply calculations for support and other details as necessary.
   3. Panel thickness shall be sized by the Specialty Glazed Structure Contractor.
   4. Existing text reports are only acceptable as proof of capacity calculations, but will not be acceptable in lieu of calculations.
   5. Calculations shall be signed and sealed by a Registered Engineer in the State of Oklahoma.

B. Shop Drawings: Submit complete shop drawings including glass panel and support steel layouts and details. Show dimensioned layout of structural glazing in relation to adjacent work such as walls, columns, beams, slabs, etc…
   1. Include details of all supports and data to show provisions for vertical and horizontal expansion/contraction and building movements as necessary.
   2. Identify all materials, attachments devices and accessories including necessary tolerances.
   3. Shop Drawings shall be signed and sealed by a Registered Engineer in the State of Oklahoma.

C. Installation Drawings: After approval of shop drawings, provide a detailed set of field installation drawings and a written installation procedure. Identify each part by size and number.

D. Product Data: Material description for tapes, compounds, gaskets and other material.

E. Samples: Submit samples of glass and glazing materials required for the project. Samples of glass shall be 12" x 12". Samples of sealants or gaskets shall be 12" long. Submit samples of fixing hardware assemblies, bolts, and accessories.

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING

A. All glass and steel shall be manufactured, crated, stored, handled, and shipped in a manner that will provide unscratched and undamaged units delivered to the site. Fittings which engage with the glass shall be individually boxed in a way to protect edges from damage and/or scratching.

B. Time the delivery of materials to the site to ensure uninterrupted progress of the installation work.

1.06 PROJECT CONDITONS

A. Field Verifications: Where the system is indicated to fit against walls and other construction, the Specialty Glazed Structure Contractor shall verify dimensions in the field at the time of installation and notify General Contractor of any deviations from approved shop drawings. General Contractor shall correct conditions to comply with the system tolerances specified for the project and as indicated in the approval drawings, which may be tighter than industry standard.

B. Structural glass and support steel shall be fabricated in accordance with approved shop drawings which shall include dimensional approval from the Architect and General Contractor.

C. Coordinate fabrication schedule with construction progress to avoid delaying the work.

PART 2 - PRODUCTS

2.01 ENGINEERING REQUIREMENTS

A. Engineer the structural glazing and steel support system and applicable other components for the locations and conditions shown in the architectural and structural drawings and to the loading requirements and codes specified in the bid documents.

B. The Project Architect shall provide in the bid documents the following criteria that shall be accommodated in the system's engineering:
   1. Deflections of edge beams due to loading applied after the installation of the cladding.
   2. Side sway movements of the adjacent structure due to wind and seismic load.
   3. Anticipated deflections due to self-weight of the structural glass system.
   4. Safety or other requirements to adhere to governing codes, laws, standards.

2.02 FABRICATION

A. Provide all glass, steel and structural hardware, connectors, fasteners and accessories required for a complete installation of the structural glazing as indicated in approved shop drawings.

B. Code each part for easy identification. Cross reference this coding to shop/installation drawings and to shipping lists.

2.03 SPECIALTY GLAZED STRUCTURE CONTRACTOR

A. Basis of Engineered System Products: The construction documents are based on the PSG-System and AES-System as manufactured and engineered by Novum Structures LLC of Menomonee Falls, WI (Phone: 262.255.5561). As such, Novum Structures LLC is a pre-approved Specialty Glazed Structure Contractor for the scope described under this section.

B. System Description: The system is comprised of glass panels which are attached to the steel support structure and have drilled holes such that the glass can be mechanically attached using stainless steel fasteners to the support structure. Joints are comprised of uninterrupted wet silicone with an extruded silicone profile inner compression seal. General arrangement and profiles for the support structure as indicated on the drawings but the Specialty Glazed Structure Contractor shall be responsible for all engineering of the structural support system. All of these elements shall be provided by the Specialty Glazed Structure Contractor as a single source.
   1. Metals for Glazing Attachment
      a. To prevent bending stresses at the glass holes, the glass attachment bolts shall be grade 316 stainless steel and able to rotate up to 10 degrees in any direction or to an angle as required by the application. The stainless steel shall be separated from the glass with durable and UV resistant rings. The glass hole ring shall be anodized aluminum without exception and the other rings shall be silicone, nylon or as required. Where rotational fittings are not used, calculations shall be provided that show the glass fixing bolt does not locally impact the glass stresses, and that the connection is able to flex sufficiently in the glass deformed shape without depending on rubber, plastic bushing or similar materials, remaining durable long term. Bolt

diameters shall be per structural requirements. Calculations shall back-up tests as evidence of compliance. Glass attachment bolts shall have button head attachments on the outside surface of the glass and have a machined finish.

b. Glazing arms for the glass bolts shall have provisions for glass thermal movements and resist all design forces. Glazing arms shall be mild steel, primed with a zinc rich epoxy and finish painted in a standard color.

c. The support structure, to hold the glazing arms, shall be of sufficient tolerance to accept the glazing system directly. The required tolerance to be per AISC “Code of Standard Practice” for AESS (or tighter) and shall be indicated in the submittal drawings as required. The connection between glazing arm and support structure shall be designed as mechanical whenever possible. In addition, the main structure for the building as provided by others must meet with the same level of tolerances.

d. Perimeter: At the terminations of the glazing system to other trades, provide aluminum non-thermal break glazing channel in clear anodized finish.

2. Glass

a. **Type SGS1-1**: Exterior façade glazing shall be low-iron, insulated, laminated, fully tempered glass with a standard low-E coating on the No. 2 surface (REFERENCE GLAZING SPEC FOR LOW-E COATING INFORMATION). Glass shall be heat soaked tested. Minimum interlayer thickness is to be 0.060” using a clear PVB. The edge spacer consists of a mill finish aluminum spacer with black sealant. Interspace to be Air filled.

b. **Type SGS1-2**: In addition, the exterior glass shall have a standard frit on the #3 surface if demarked as this type.

c. **Type SGS1-3**: Interior vestibule glazing shall be low-iron, laminated, fully tempered glass. Glass shall be heat soaked tested. Minimum interlayer thickness is to be 0.060” using a clear PVB.

d. Overall thickness of the glass is to be determined by the Specialty Glazed Structure Contractor in accordance with specifications and drawings.

e. Poured or cast resin laminates will not be permitted.

f. The Architect or Engineer of Record shall be responsible for identifying whether the Architect’s chosen design subjects the structural glass to code or other requirements necessitating safety glass or other safety measures (eg: glass defined as “overhead” glass in some building codes requires glass to be laminated).

g. All glass must be horizontally tempered, eliminating tong marks. All edges will be ground flat with a frosted appearance unless otherwise noted. All edgework, holes and notches in the tempered glass panels will be completed before tempering and will comply with the requirements stated below:
   1) ASTM C1036 Standard Specification for Flat Glass.
   2) ASTM C1048 Standard Specification for Heat-Treated Flat Glass.
   3) ASTM C1172 Standard Specification for Laminated Architectural Flat Glass.
   4) Safety glazing requirements as defined in ANSI Z97.1 and CPSC 16 CFR 1201.

h. The Specialty Glazed Structure Subcontractor shall demonstrate that the stresses induced in the glass by the fittings are compatible with the strength of the glass and the needs of the performance section of this specification, especially at the holes. Provide finite element calculations to show compliance. Pre-stressing of the glass around holes, to a level which is compatible with the design and use of the fittings, is not permissible.

i. Glass Tolerances: Squareness of panels governs other tolerances and shall be within 0.16 inch of specified dimensions. Edge lengths shall be within 0.12 inch of specified dimensions. Holes shall be within 0.06 inch of specified locations. Bow shall not exceed 0.3%.

j. Glass Holes: Drilled holes shall be straight through. Fitting type shall be as shown in the architectural drawings. All edges of holes shall be cleaned and free of loose or ground materials.

3. Architecturally Exposed Steel Structure
   a. Shall meet the requirements of Division 5, Section “Structural Steel Framing” as amended herein. Sizing and engineering of all members as required for the Façade shall be the responsibility of the Specialty Glazed Structure Contractor.
   b. Where indicated steel members shall consist of advance fabricated sections (AFS) with special welding methodology and welds that are not visible. The AFS steel shall be custom fabricated with flat steel plates into a box-section that has visually sharp edges (as shown in the drawings). Rounded edges shall not be acceptable except as noted otherwise in the drawings.
   c. Other profiles consist of steel circular pipe sections and fin plates.
   d. All steel and connections to be fabricated per AESS Category 3 as defined by AISC 303-16, Table 10.1. All welds (other than the AFS member itself) to be of Architectural quality, uniform and consistent.
   e. Plates and profiles shall typically be A36, A500 Gr. B, A572, or as required by the approved calculations and as indicated on the approved drawings.
   f. High-Strength Bolts, Nuts and Washers: Provide a standard carbon steel mechanically galvanized or with a dacromet coated finish, as necessary.
   g. Other Bolts and Nuts: Bolts that are not high-strength or stainless and are subject to corrosive environment, shall be hot dip galvanized, dacromat coated, mechanically galvanized or electroplated. In no circumstances shall bolts without any finish be used, unless noted in the approved drawings.
   h. Coating Specification: Surface Preparation: All surfaces must be cured, clean, sound and free of all mill scale, rust, oil, dirt, grease and any other contamination, including salt deposits, which would interfere with new coating adhesion. Surface may not be wet. Bare surfaces must be properly prepared prior to coating application.
      1) Ferrous Metal Surfaces:
         (a) Power or hand washing is required to remove contamination.
         (b) Use of a cleaner/degreaser is required to remove any oil or grease.
         (c) All cleaning residue must be completely rinsed from surface and surface allowed to dry.
         (d) Abrasive blast new steel to SSPC-SP-10 Near-White Blasting to achieve a 1.5 to 3.0 mil profile.
         (e) Blast surface to be primed before flash rusting occurs.
      2) Primer: PPG (or equal): Zinc Rich Epoxy Primer
         (a) Product Series: 68
         (b) Product Name: Amercoat 68HS
         (c) One (1) coat application = 3.0 - 5.0 mils DFT (over blast profile).
      3) Top Coat: PPG (or equal): Engineered Siloxane Coating
         (a) Product Series: 700
         (b) Product Name: Amercoat PSX 700
         (c) One (1) coat application = 3.0 mils DFT.
      4) Total Dry Film Thickness = 6.0 - 8.0 mils DFT.
      5) Other Equivalent Paint Manufacturers:
         (a) Sherwin Williams
         (b) Carboline
         (c) International

4. Sealants: All glass shall be sealed with Dow Corning 795 Silicone Building Sealant in a black color. Backer material in joint shall be provided by an extruded black silicone profile material.

a. Type: One-component, neutral-cure, RTV (room temperature vulcanizing) silicone rubber sealant for structural glazing. Sealant material shall meet or exceed the following standards:
   1) ASTM C920, Type S, Grade NS, Class 50, Use NT, G, A and O.
   2) ASTM C1184, Type S, Use G, A, and O.
   3) GSA CID A-A-272A - Sealing Compound: Silicone Rubber Base (For caulking, Sealing, and Glazing in Buildings and Other Structures).
   4) GSA CID A-A-1556-Sealing Compound Elastomeric Type, Single Component (For Caulking, Sealing, and Glazing in Buildings and Other Structures).
b. Shelf Life: 12 months
c. Tack-free time: 3 hours
d. Working time: 20 to 30 minutes
e. Curing time: 7 to 14 days
f. Full adhesion time: 14 to 21 days
g. Flow, sag, or slump: 2.5mm tested in accordance with ASTM C639.
h. Volatile organic compound (VOC) content: 28grams/liter
i. Cured Sealant Properties after 21 days at 50% relative humidity:
   1) Joint movement capability: Plus and minus 50%, tested in accordance with ASTM C719.
   2) Hardness: 35-durometer hardness, Shore A, tested in accordance with ASTM D2240.
   3) Maximum Peel Strength: 5.7kg/cm testing in accordance with ASTM C794.
   4) Staining: None on concrete, marble, granite, limestone, and brick, when tested in accordance with ASTM C1248.
   5) Service Temperature Range: Minus 40 to Plus 300 degrees Fahrenheit.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Scope of this section includes the installation of structural glass, point support glass fixings, support steel and accessories. The Erector shall check all metal components upon delivery for dents, gouges or other imperfections which may result in rejection of the appearance or reduce strength.

B. The Erector shall check the glass panels upon delivery for scratches, imperfections and edge damage. Damaged glass or glass with imperfections not within allowable tolerances shall not be installed.

3.02 PREPARATION

A. Provide connections for temporary shoring, bracing and supports as noted on the installation drawings. Handle, lift and align pieces using padded slings, suction cups and/or other protection required to maintain the appearance of the system throughout the installation process.

B. Only lift at connections as approved by the system’s Engineer.

3.03 INSTALLATION

A. Erect structural glazing and accessory items in strict accordance with the approved shop/installation drawings and installation procedures.
   1. Glass shall not be positioned by the use of force. Provide temporary bracing and support as required to ensure stability during installation process.
   2. Bolt Head Orientation: All exposed bolt heads shall be oriented as indicated on the approved drawings. Where bolt head alignment is specified, the orientation shall be noted for each connection on the installation drawings. Where not noted, the bolt heads in a given connection shall be oriented to one side.

3. Field Welding: If required at glazing arm supports, weld profile, quality and finish shall be consistent with the quality of any shop welds. If not visible, then welds shall comply with visual appearance specified in AWS D1.1. Weld size shall be per the approved shop drawings. Glass must be protected from heat and splatter.
4. All bolts shall be fully tightened in accordance with methods indicated in the installation drawings. Specified pre-stressed bolts shall be tightened using the necessary tools and the torques checked. Reset calibrations often to ensure torque is accurate.
5. Clean glazing connectors receiving glazing materials of deleterious substances that might impair the work. Remove protective coatings that might fail in adhesion or interfere with bond of sealants. Comply with the manufacturer's instructions for final wiping of surfaces immediately before the application of primer and glazing sealants. Wipe metal surfaces with an appropriate cleaning agent.
6. Sealants: Prime surfaces that are to receive glazing sealants in accordance with the manufacturer's recommendations, using recommended primers.
7. Locate setting blocks, if required by the drawings, at the quarter points of the sill, but no closer than 6 inches to corners of the glass. Use blocks of proper sizes to support the glass in accordance with the manufacturer's recommendations.
8. Ensure neoprene spacers separate the glass from attachment plates.
9. Set the glass in a manner that produces the greatest possible degree of uniformity in appearance. Face all glass, which has a dissimilar face, with matching faces in the same direction. Carefully remove all stickers and clean affected area.
10. Use masking tape or other suitable protection to limit the coverage of glazing materials on the surfaces intended for sealants.
11. Tool the exposed surface of glazing materials.
12. Clean excess sealant from the glass and support members immediately after the application, using solvents or cleaners recommended by the manufacturers.

B. Structural glazing shall be installed clean and in one visit. General Contractor shall provide protection measures for completed structural glazing and accessories to prevent damage or deterioration from subsequent work.

C. Obtain permission for any modification or field fabrication from the Engineer of the system. Glass cannot be modified.

3.04 FIELD QUALITY CONTROL AND CLEANING

A. Structural Requirements: The Owner will engage an independent testing and inspecting agency to perform field inspections, testing and prepare test reports.

B. Product Acceptance: The structural glazing and other items being supplied in the scope shall be installed clean by the Structural Glass Contractor and then protected by the General Contractor and any other following trades at their expense. General Contractor shall coordinate a punch list prior to demobilization of the Specialty Glazed Contractor and installation of any protection.

3.05 TOUCH-UP AND FINAL CLEANING

A. Touch-up Painting: Cleaning and touch-up painting of any field welds and abraded areas of shop paint or stainless parts shall be completed to blend with the adjacent surfaces of the product. Such touch-up work shall be done in accordance with manufacturer's instructions.

B. Final cleaning prior to hand over to the Owner shall be by the General Contractor.

3.06 WARRANTY

A. Provide standard, exclusive five (5) year warranty on the engineering, materials, and installation workmanship. The start date of the warranty shall be thirty (30) days after completion of the scope of work.

B. Provide the glass manufacturer's standard, exclusive five (5) year warranty for laminated and coated glass and ten (10) year warranty for insulated glass.

END OF SECTION

OKLAHOMA
Office of Management
& Enterprise Services

ODOT OSU Multipurpose
Stillwater, OK

100% FFE Specification Sheets

1/21/2026

STUDIO
ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 22 044

Revision Date:

OKLAHOMA
Office of Management & Enterprise Services

TAG: B01

Item: Bench

Manufacturer: Wausau
Series: Concrete Contour Bench #TF5114
Location: 102

Finishes:

Finish:
Acid Wash: A26 Charcoal

*Images may not depict actual components.

Description:
- Overall dimensions: 72”W x 24”D x 18”H
- 4” thick

Warranty:
- Two-year warranty minimum preferred

Features:
- Material: concrete
- Shape: rectangle
- Anchoring: includes (4) ½” threaded inserts on bottom for anchoring
- Reinforcement: #3 rebar with .5” threaded inserts

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG:
CH1

Item: Nesting Chair

Manufacturer: Global
Series: Spritz Nesting
Location: 116

Finishes:

Frame color:
Black (TBL)

Mesh color:
Black (U1)

Upholstery color:
Momentum – Pivot Uph, Pop Orange

*Images may not depict actual components.

Description:
- Overall dimensions: 23”D x 20.5”W x 33”H
- Seat Height: 17”
- Seat Width: 18.5”
- Upholstered Seat
- Flip seat nesting
- Four leg chair
- Translucent mesh back
- Armless
- 300 lb minimum weight limit preferred

Warranty:
Lifetime warranty all components except
5 year warranty on foam and textiles
12 year warranty on control mechanisms
Warranty applies only to single shift, standard commercial usage.

Features:
- Black dual wheel casters all four legs for hard surface flooring
- When seat is flipped up for nesting, chair depth is 22”. Each additional nested chair adds only 8” to depth.
- Seat construction: polypropylene seat pan 1” thick.
- Frame construction: Metal tube frame, .875” diameter
- High density molded seat foam

Upholstery:
- Manufacturer: Momentum
- Pattern: Pivot Uph
- Color: Pop Orange
- Content: 71.9% Acrylic, 28.1% Polyester
- Double Rubs: 100,000
- Cleaning: WS; Bleach Cleanable (10:1)
- CA Bulletin 117 2013, NFPA 260 Class 1, UFAC Class 1
- Color Fastness: AA4-AATCC 16 – 1990 CLASS 4

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG:
CH2

Item: Guest Chair

Manufacturer: Global
Series: Willow Armchair
Location: 112,113,114,115,132,133

Finishes:

Frame color:
Black (TBL)

Upholstery color:
ArcCom – Sherlock 2, Ash #26

*Images may not depict actual components.

Description:

- Overall dimensions: 23.5”D x 24.25”W x 32.25”H
- Seat Height: 18.25”
- Seat Width: 18.25”
- Upholstered seat and back
- Four leg chair
- Armchair
- 400 lb minimum weight limit preferred

Warranty:

Heavy duty warrant includes:
5 year warranty on foam and textiles
12 year warranty all other parts
Warranty applies to 24/7 usage

Features:

- Glides with rubber pads for hard floor
- Plastic under seat shroud and back shroud
- Replaceable seat and back
- Arm construction: Nylon, forward grip extend to the front edge of the seat.
- Seat construction: Seat and back pans are nylon, .25” thick.
- Frame construction: Metal tube frame, 1” diameter, 13 gauge welded steel frame
- 1” thick molded seat foam
- .75” thick molded back foam

Upholstery:

- Manufacturer: ArcCom
- Pattern: Sherlock 2
- Color: Silver Ash #26
- Content: 73% Polyester, 27% Viscose
- Double Rubs: 150,000
- Cleaning: Water and solvents
- California Bulletin #117-13, NFPA 260; ASTM E-84 (adhered); UFAC: Class 1
- Light Fastness: 40 hours

STUDIO ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management & Enterprise Services

TAG: CH3

Item: Breakroom Chair

Manufacturer: Global
Series: Willow Dining Chair
Location: 104

Finishes:

Frame color:
Black (TBL)

Plastic color:
Night (BLK)

*Images may not depict actual components.

Description:

- Overall dimensions: 23.5”D x 20.75”W x 32”H
- Seat Height: 17” Dining
- Seat Width: 17.75”
- Plastic seat and back
- Four leg chair
- Armchair
- 400 lb minimum weight limit preferred

Warranty:

Heavy duty warrant includes:
Warranty applies to 24/7 usage

Features:

- Glides with rubber pads for hard floor
- Plastic under seat shroud and back shroud
- Frame construction: Metal tube frame, 1” diameter, 13 gauge welded steel frame

STUDIO ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
CH4

Item: Breakroom Stool

Manufacturer: Global
Series: Willow Barstool
Location: 104

Finishes:

Frame color:
Black (TBL)

Plastic color:
Night (BLK)

*Images may not depict actual components.

Description:

- Overall dimensions: 23.5”D x 20.75”W x 44”H
- Seat Height: 29.25” Bar Height
- Seat Width: 17.75”
- Plastic seat and back
- Four leg chair
- Armchair
- 400 lb minimum weight limit preferred

Warranty:

Heavy duty warrant includes:
Warranty applies to 24/7 usage

Features:

- Glides with rubber pads for hard floor
- Plastic under seat shroud and back shroud
- Frame construction: Metal tube frame, 1” diameter, 13 gauge welded steel frame

STUDIO
ARCHITECTURE

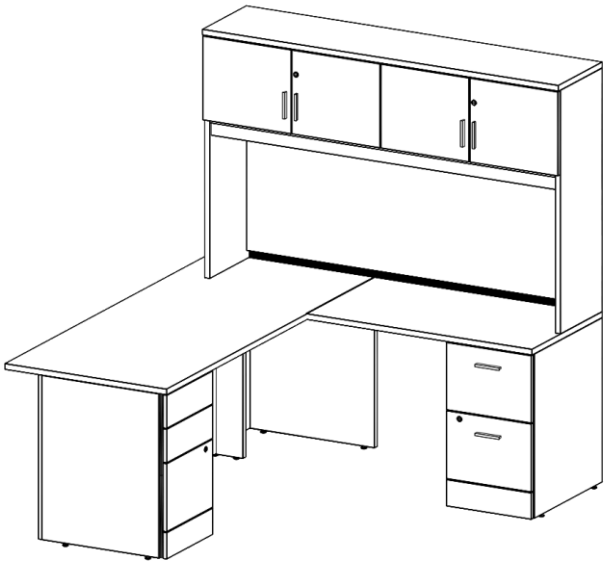
Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
D01

Item: Right Handed Desk



Manufacturer: Global
Series: Zira
Location: 113, 115

Finishes:

Laminate color:
Noce Medio (NML)

*Images may not depict actual components.

Tack surface color:
Jenny
Silver Lining
(JN25)

Hardware design & color:
Flared Black (HX)
Handle; black

STUDIO
ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
D01

Item: Right Handed Desk

Warranty:
- Lifetime Warranty preferred

Description:
- 1.5" thick high performance thermally fused laminate worksurfaces
- 3mm thick matching edge band, flat edge
- Fully enclosed 45 lb particleboard core
- Laminate end panels and narrow end panels
- Leveling glides

Features:
- 24"D x 42"W x 29.5"H Full to the floor return, with locking File/File on right. No modesty panel, leave back open to 20" high above finished floor to allow access to wall power and data; provide grommet and cover on desk surface – located at installation
- 29.69"D x 72"W x 29.5"H Single pedestal, rectangular top desk with 6" overhang, locking Box/Box/File left, faux pedestal right; laminate full to floor modesty; provide grommet and cover on desk surface – located at installation
- 64"W x 24"H wall mounted fabric covered tackable surface for hutch.
- 15"D x 66"W x 41.9"H Closed hutch with doors and 1 fixed shelf and fixed shelf divider
- Hardware: Flared Black (HX) Handle; black
- 43.5"W LED tasklight
- Locking storage

Tackboard Upholstery:
- Manufacturer: Global
- Pattern: Jenny
- Color: Silver Lining (JN25)
- Content: 100% Polyester
- Double Rubs: 55,000
- Cleaning: Water and solvents
- NFPA 260/BIFMA Class A/CAL TB117-2013
- Light Fastness: AATCC-16A (Class 5)
- Pilling: ASTM D-3511 (Class 5)

STUDIO ARCHITECTURE

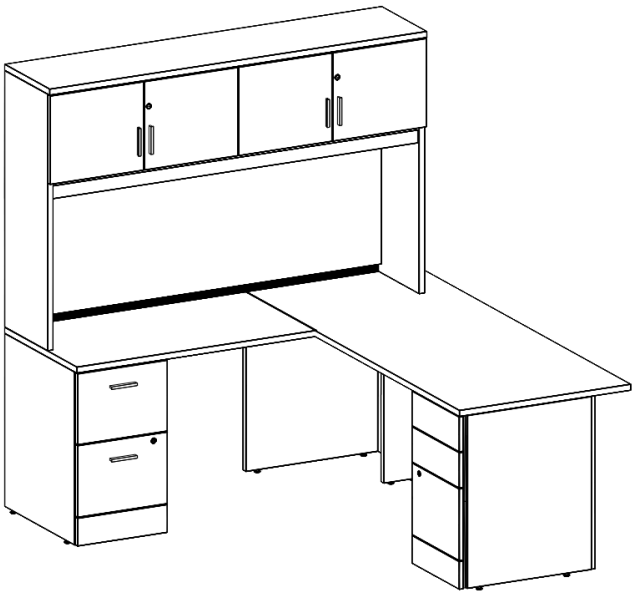
Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
D02

Item: Left Handed Desk



*Images may not depict actual components.

Manufacturer: Global
Series: Zira
Location: 112, 114

Finishes:

Laminate color:
Noce Medio (NML)

Tack surface color:
Jenny
Silver Lining
(JN25)

Hardware design & color:
Flared Black (HX)
Handle; black

STUDIO
ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
D02

Item: Left Handed Desk

Warranty:
- Lifetime Warranty preferred

Description:
- 1.5” thick high performance thermally fused laminate worksurfaces
- 3mm thick matching edge band, flat edge
- Fully enclosed 45 lb particleboard core
- Laminate end panels and narrow end panels
- Leveling glides

Features:
- 24”D x 42”W x 29.5”H Full to the floor return, with locking File/File on left. No modesty panel, leave back open to 20” high above finished floor to allow access to wall power and data; provide grommet and cover on desk surface – located at installation
- 29.69”D x 72”W x 29.5”H Single pedestal, rectangular top desk with 6” overhang, locking Box/Box/File right, faux pedestal right; laminate full to floor modesty; provide grommet and cover on desk surface – located at installation
- 64”W x 24”H wall mounted fabric covered tackable surface for hutch.
- 15”D x 66”W x 41.9”H Closed hutch with doors and 1 fixed shelf and fixed shelf divider
- Hardware: Flared Black (HX) Handle; black
- 43.5”W LED tasklight
- Locking storage

Tackboard Upholstery:
- Manufacturer: Global
- Pattern: Jenny
- Color: Silver Lining (JN25)
- Content: 100% Polyester
- Double Rubs: 55,000
- Cleaning: Water and solvents
- NFPA 260/BIFMA Class A/CAL TB117-2013
- Light Fastness: AATCC-16A (Class 5)
- Pilling: ASTM D-3511 (Class 5)

STUDIO ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
D03

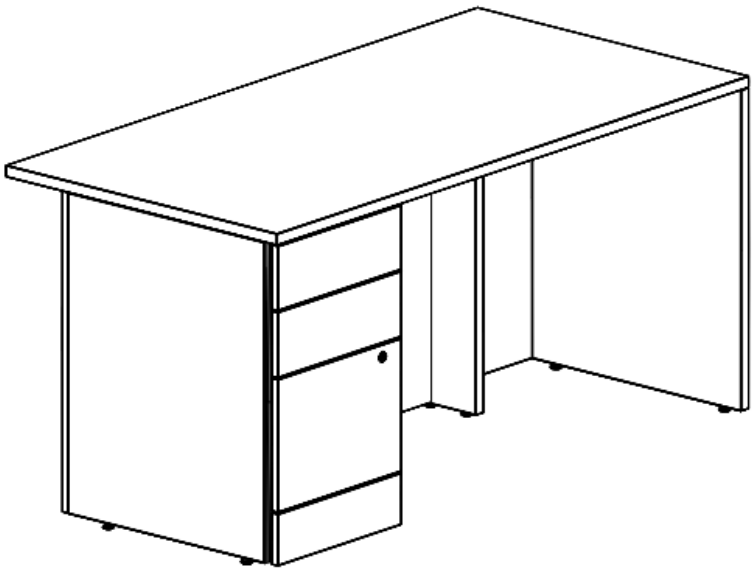
Item: Desk

Manufacturer: Global
Series: Zira
Location: 132, 133

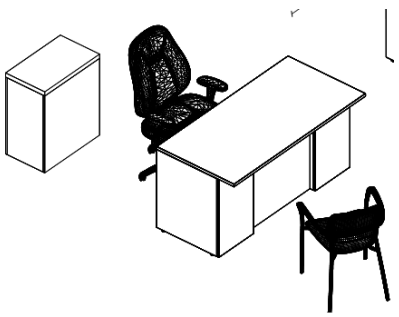
Finishes:

Laminate color:
Noce Medio (NML)

Hardware design & color:
Flared Black (HX)
Handle; black



*Images may not depict actual components.



STUDIO
ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
D03

Item: Desk

Warranty:
- Lifetime Warranty preferred

Description:
- 1.5” thick high performance thermally fused laminate worksurfaces
- 3mm thick matching edge band, flat edge
- Fully enclosed 45 lb particleboard core
- Laminate end panels and narrow end panels
- Leveling glides

Features:
- 29.69”D x 60”W x 29.5”H Single pedestal, rectangular top desk with 6” overhang, locking Box/Box/File left, faux pedestal right; laminate full to floor modesty; provide grommet and cover on desk surface – located at installation
- Hardware: Flared Black (HX) Handle; black
- Locking storage

STUDIO ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
D04

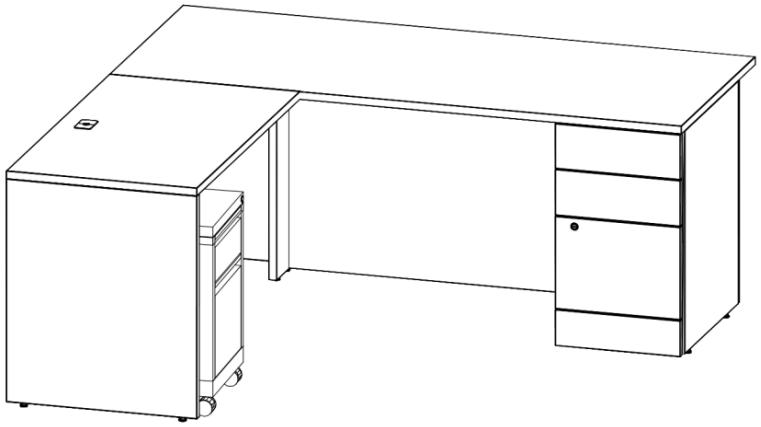
Item: Left Handed Desk

Manufacturer: Global
Series: Zira
Location: 111

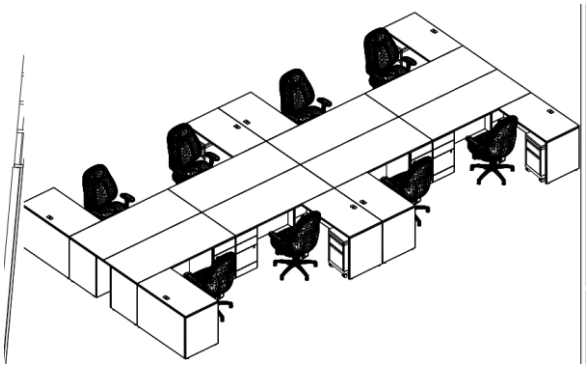
Finishes:

Laminate color:
Noce Medio (NML)

Hardware design & color:
Flared Black (HX)
Handle; black



*Images may not depict actual components.



STUDIO
ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG:
D04

Item: Left Handed Desk

Warranty:
- Lifetime Warranty preferred

Description:
- 1.5” thick high performance thermally fused laminate worksurfaces
- 3mm thick matching edge band, flat edge
- Fully enclosed 45 lb particleboard core
- Laminate end panels and narrow end panels
- Leveling glides

Features:
- 24”D x 42”W x 29.5”H right flush return with no pedestal; laminate full to floor modesty; provide grommet and cover on desk surface – location to be determined at installation
- 29.69”D x 72”W x 29.5”H Single pedestal, rectangular top desk with 6” overhang, locking Box/Box/File right, faux pedestal left; laminate full to floor modesty; provide grommet and cover on desk surface – located at installation

STUDIO
ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
D05

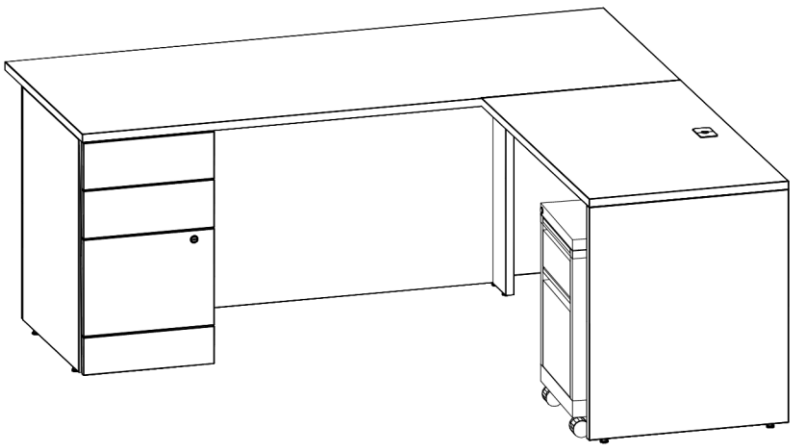
Item: Right Handed Desk

Manufacturer: Global
Series: Zira
Location: 111

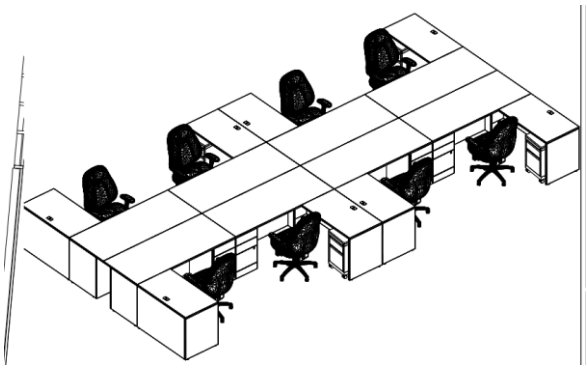
Finishes:

Laminate color:
Noce Medio (NML)

Hardware design & color:
Flared Black (HX)
Handle; black



*Images may not depict actual components.



STUDIO
ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
D05

Item: Right Handed Desk

Warranty:
- Lifetime Warranty preferred

Description:
- 1.5” thick high performance thermally fused laminate worksurfaces
- 3mm thick matching edge band, flat edge
- Fully enclosed 45 lb particleboard core
- Laminate end panels and narrow end panels
- Leveling glides

Features:
- 24”D x 42”W x 29.5”H right flush return with no pedestal; laminate full to floor modesty; provide grommet and cover on desk surface – location to be determined at installation
- 29.69”D x 72”W x 29.5”H Single pedestal, rectangular top desk with 6” overhang, locking Box/Box/File left, faux pedestal right; laminate full to floor modesty; provide grommet and cover on desk surface – located at installation

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

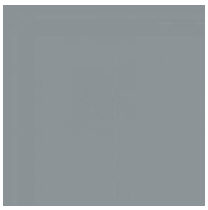
TAG:
D06

Item: Mobile Table

Manufacturer: Global
Series: Princeton
Location: 130

Finishes:

Laminate color:
Noce Medio (NML)



Frame color:
Tungsten (TTU)

*Images may not depict actual components.

Description:
- 24”D x 72”W x 29”H table with casters
- 1”x2.5” metal frame legs

Warranty:
- Lifetime Warranty preferred

Features:
- 1” thick high performance thermally fused laminate worksurfaces
- 3mm thick matching edge band, flat edge
- Fully enclosed 45 lb particleboard core
- Locking casters

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 22 044

Revision Date:

TAG:
L1

Item: Lectern

Manufacturer: Global
Series: Adaptabilities
Location: 116

Finishes:

Laminate color:
Noce Medio (NML)

*Images may not depict actual components.

Description:
- 18”D x 24”W x 44”H
- Lectern with angled stand, storage shelf and casters

Warranty:
- Lifetime Warranty preferred

Features:
- 1” thick high performance thermally fused laminate worksurfaces
- 3mm thick matching edge band, flat edge
- Fully enclosed 45 lb particleboard core
- Locking casters

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management & Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG: LC1

Item: Lounge Chair

Manufacturer: Global
Series: River+
Location: 110

Finishes:

Back Upholstery: Momentum – Flock, Flint

Frame color: Black (TBL)

Seat Upholstery: Arc Com – Sherlock 2, Ash #26

*Images may not depict actual components.

Description:
- Overall dimensions: 32.5”W x 30”D x 32”H
- Seat Height: 17.5”H
- 6.5”H Metal legs
- Left and Right upholstered arms
- Active weight capacity 600 lbs

Warranty:
- 12 year warranty preferred except:
- 5 year warranty on foam and textiles
- Warranty applies for 24/7

Features:
- Double stitching on all seams
- 3” thick high density foam cushions
- Base construction: .75” thick birch plywood frame, 6 ply; interlocking puzzle box construction; underside is covered with fabric lining, metal-to-metal connections between all components.
- Leg Construction: Welded steel legs, 14 gauge; legs taper towards floor, equipped with black nylon non-marking glides; leveling glides are adjustable by over 1”; top mounting plate is .1875” thick.

Upholstery Seat:
- Manufacturer: ArcCom
- Pattern: Sherlock 2
- Color: Ash #26
- Content: 73% Polyester, 27% Viscose
- Double Rubs: 150,000
- Cleaning: Water and solvents
- California Bulletin #117-13, NFPA 260; ASTM E-84 (adhered); UFAC: Class 1
- Light Fastness: 40 hours

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG:
LC1

Item: Lounge Chair

Manufacturer: Global
Series: River+
Location: 110

Finishes:

Back Upholstery:
Momentum – Flock, Flint

Frame color:
Black (TBL)

Seat Upholstery:
Arc Com – Sherlock 2, Ash #26

*Images may not depict actual components.

Upholstery Back:

- Manufacturer: Momentum
- Pattern: Flock
- Color: Flint
- Content: 53% Recycled Polyester, 47% Polyester
- Double Rubs: 140,000
- Cleaning: W-Water Based Foam or Cleaner, Bleach Cleanable (10:1)
- CA Bulletin 117 2013, UFAC Class 1, NFPA 260 Class 1
- Color Fastness: A4.5-AATCC 16 opt 3, CLASS 4.5

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management & Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

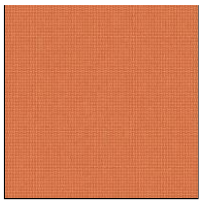
Revision Date:

TAG: LC2

Item: Sofa

Manufacturer: Global
Series: River+
Location: 110

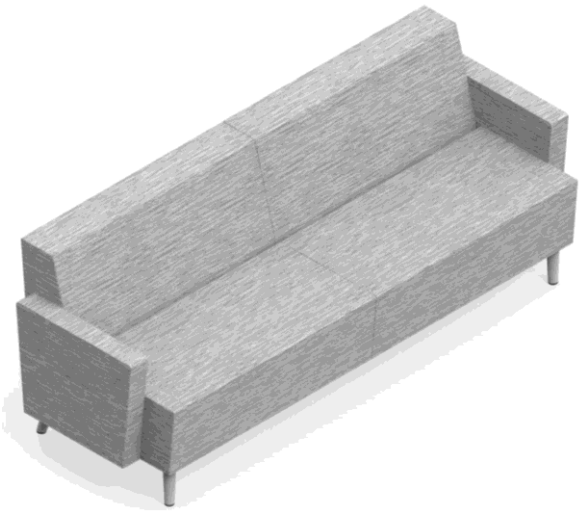
Finishes:



Back Upholstery:
Momentum - Solitaire, Peel

Frame color:
Black (TBL)

Seat Upholstery:
Arc Com – Sherlock 2, Ash #26



*Images may not depict actual components.

Description:
- Overall dimensions: 84.5”W x 30”D x 32”H
- Seat Height: 17.5”H
- 6.5”H Metal legs
- Left and Right upholstered arms
- Active weight capacity 600 lbs

Warranty:
- 12 year warranty preferred except:
- 5 year warranty on foam and textiles
- Warranty applies for 24/7

Features:
- Three seat sofa
- Double stitching on all seams
- 3” thick high density foam cushions
- Base construction: .75” thick birch plywood frame, 6 ply; interlocking puzzle box construction; underside is covered with fabric lining, metal-to-metal connections between all components.
- Leg Construction: Welded steel legs, 14 gauge; legs taper towards floor, equipped with black nylon non-marking glides; leveling glides are adjustable by over 1”; top mounting plate is .1875” thick.

Upholstery Seat:
- Manufacturer: ArcCom
- Pattern: Sherlock 2
- Color: Ash #26
- Content: 73% Polyester, 27% Viscose
- Double Rubs: 150,000
- Cleaning: Water and solvents
- California Bulletin #117-13, NFPA 260; ASTM E-84 (adhered); UFAC: Class 1
- Light Fastness: 40 hours

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

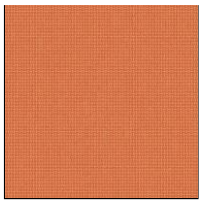
Revision Date:

TAG:
LC2

Item: Sofa

Manufacturer: Global
Series: River+
Location: 110

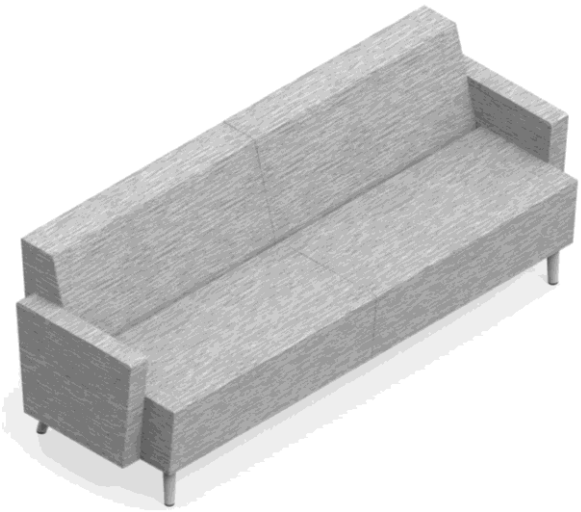
Finishes:



Back Upholstery:
Momentum - Solitaire, Peel

Frame color:
Black (TBL)

Seat Upholstery:
Arc Com – Sherlock 2, Ash #26



*Images may not depict actual components.

Upholstery Back:

- Manufacturer: Momentum
- Pattern: Solitaire
- Color: Peel
- Content: 50% Repreve Post Consumer Recycled Polyester, 50% Polyester
- Double Rubs: 200,000
- Cleaning: W- Water Based Foam or Cleaner, Bleach Cleanable (10:1)
- CA Bulletin 117 2013, NFPA 260 Class 1, UFAC Class 1
- Color Fastness: A4-AATCC 16 opt 3, Class 4

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG:
LC3

Item: Upholstered Stool

Manufacturer: Global
Series: River+
Location: 110

Finishes:

Upholstery:
Momentum – Pivot Uph, Pop Orange

Frame color:
Black (TBL)

*Images may not depict actual components.

Description:
- Overall dimensions: 18” Dia. X 17.5”H
- 6.5”H Metal legs
- Active weight capacity 600 lbs

Warranty:
- 12 year warranty preferred except:
- 5 year warranty on foam and textiles
- Warranty applies for 24/7

Features:
- Round bench
- Double stitching on all seams
- 3” thick high density foam cushions
- Base construction: .75” thick birch plywood frame, 6 ply; interlocking puzzle box construction; underside is covered with fabric lining, metal-to-metal connections between all components.
- Leg Construction: Welded steel legs, 14 gauge; legs taper towards floor, equipped with black nylon non-marking glides; leveling glides are adjustable by over 1”; top mounting plate is .1875” thick.

Upholstery:
- Manufacturer: Momentum
- Pattern: Pivot Uph
- Color: Pop Orange
- Content: 71.9% Acrylic, 28.1% Polyester
- Double Rubs: 100,000
- Cleaning: WS; Bleach Cleanable (10:1)
- CA Bulletin 117 2013, NFPA 260 Class 1, UFAC Class 1
- Color Fastness: AA4-AATCC 16 – 1990 CLASS 4

STUDIO ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
S01

Item: File Cabinet

Manufacturer: Global
Series: 2500 Series Universal Filing
Location: 132,133

Finishes:

Metal color:
Charcoal (CHR)

*Images may not depict actual components.

Description:
- 25”D x 15.15”W x 29”H

Warranty:
- Limited Lifetime Warranty preferred

Features:
- 2 drawer letter size
- Locking
- Painted metal file case and front
- Drawer pulls and thumb latch
- Ball bearing suspension

STUDIO ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
S02

Item: Mobile Pedestal

Manufacturer: Global
Series: Zira
Location: 130,111

Finishes:

Laminate color:
Noce Medio (NML)

Hardware design & color:
Flared Black (HX)
Handle; black

Upholstery:
Global-Terrace
Tigerlily (TC61)

*Images may not depict actual components.

Description:
- 1” thick high performance thermally fused laminate worksurfaces
- Matching edge band, flat edge
- Fully enclosed 45 lb particleboard core
- Upholstered cushion top

Warranty:
- Limited Lifetime Warranty preferred except
- 5 year warranty on foam and textiles

Features:
- 22.6”D x 16”W x 28.5”H pedestal with overhang
- Locking casters
- Box/Box/File locking drawers

Upholstery:
- Content: 70% Virgin Polyester/30% Post-Consumer Recycled Polyester
- Double Rubs: 150,000
- Cleaning: Water and solvents
- NFPA 260/BIFMA Class A
- Light Fastness: AATCC-16A (Class 5)
- Pilling: ASTM D-3511 (Class 4)

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

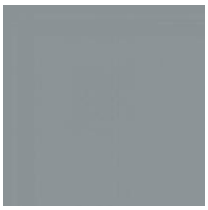
TAG:
T1

Item: Training Table

Manufacturer: Global
Series: Terina Tables
Location: 116

Finishes:

Laminate color:
Noce Medio (NML)



Frame color:
Tungsten (TTU)

*Images may not depict actual components.

Description:
- 24”D x 72”W x 29”H

Warranty:
- Lifetime Limited Warranty preferred
- 1 year laminate folding tables

Features:
- High pressure laminate top with 3mm laminate edge band
- Flip top
- 2 Angled “T” legs with casters
- Ganging mechanism
- 70”W x 10”H x .75”D laminate folding modesty panel
- Power/Data-Wire manager. Tray flexes to hold elect/data wires. Attaches with 2-sided tape. 2”D x 16”W x 2”H
- Villa 1-Data knockouts w/out Data Ports provided per table in center position. Includes 1 power block with 2 receptacles, 2 data knockouts
- Table power daisy chains to end table with 3 prong plug that will plug into standard floor outlet.

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG:
T02

Item: Coffee Table

Manufacturer: Global
Series: River+
Location: 110

Finishes:

Laminate color:
Noce Medio (NML)

Frame color:
Black (TBL)

*Images may not depict actual components.

Description:
- 42”W x 42”D x 17”H
- Painted metal 6.5” legs
- Laminate top

Warranty:
- Lifetime Warranty preferred

Features:

Surface construction: high pressure thermally fused laminate tabletop
Leg construction: welded steel legs secured to base using metal to metal connections; legs taper towards floor, ending in black nylon non-marking glides; top mounting place is .1875 thick.

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG:
T03

Item: Side Table

Manufacturer: Global
Series: River+
Location: 110

Finishes:

Laminate color:
Noce Medio (NML)

Frame color:
Black (TBL)

*Images may not depict actual components.

Description:
- 24”W x 24”D x 17”H
- Painted metal 6.5” legs
- Laminate top

Warranty:
- Lifetime Warranty preferred

Features:

Surface construction: high pressure thermally fused laminate tabletop
Leg construction: welded steel legs secured to base using metal to metal connections; legs taper towards floor, ending in black nylon non-marking glides; top mounting place is .1875 thick.

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG:
T04

Item: Round Table

Manufacturer: Global
Series: Swap Tables
Location: 104

Finishes:

Laminate color:
Noce Medio (NML)

Frame color:
Brushed Chrome (BCH)

*Images may not depict actual components.

Description:
- 36” diameter top
- Dining height

Warranty:
- Lifetime warranty preferred

Features:
- Tabletop construction: High pressure laminate with flat edge 1.06” thick; 45 lb density particle board core
- 2mm thick PVC matching edge band
- Pedestal table base: 22” diameter x 28”H 3” diameter cold rolled steel tube fastened base and tabletop with bolts; .5” thick steel base plate provided counterweight for stability; steel top plate is 6”x6”
- ½” Adjustable glides

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG:
T05

Item: Rectangular Table

Manufacturer: Global
Series: Swap Tables
Location: 104

Finishes:

Laminate color:
Noce Medio (NML)

Frame color:
Brushed Chrome (BCH)

*Images may not depict actual components.

Description:
- 30”D x 96”W x 1”H
- Dining height

Warranty:
- Lifetime warranty preferred

Features:
- Tabletop construction: High pressure laminate with flat edge 1.06” thick; 45 lb density particle board core
- 2mm thick PVC matching edge band
- Pedestal table base: Two 18.5” x 28”H square plate base seated height, plate base with 3” diameter x 27.5”H column; cold rolled steel tube fastened base and tabletop with bolts; .5” thick steel base plate provided counterweight for stability; steel top plate is 6”x6”
- ½” Adjustable glides

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG:
T06

Item: Outdoor Table

Manufacturer: Landscape Forms
Series: Charlie 67” Table
Location: Outdoor

Finishes:

Metal Finish:
Loll Sunset Orange

*Images may not depict actual components.

Description:
- 67”L x 67”W x 30”H
- 67” oval that seats up to 6 people

Warranty:
- Three-year Warranty minimum preferred

Features:
- Steel seat panels have a perforated pattern and are surrounded by cast aluminum trim.
- Ribbon-like steel legs support the steel/aluminum tabletop and are surface mounted through stainless steel glides/inserts.
- Stainless steel anchoring hardware ships with the table.
- ADA compliant and must be surface mounted
- Powder coat finish

STUDIO ARCHITECTURE

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
T07

EXISTING CONFERENCE TABLE PROVIDED AND INSTALLED BY OWNER

STUDIO
ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG:
TC1

Item: Task Chair

Manufacturer: Global
Series: Obusforme Comfort XL – High Back
Location: 103,112,113,114,115,130,132,133

Finishes:

Frame:
Black (BK)

Upholstery:
Global-Carrera-Flannel
(CE90)

*Images may not depict actual components.

Description:
- Overall dimensions: 28”W x 26”D x 48.5”H
- High Back
- Upholstered seat and back

Warranty:
- Limited Lifetime Warranty preferred except:
- 5-year warranty foam and textiles
- 12-year warranty control mechanisms

Features:
- Synchro Tilter with back angle adjustment
- Adjustable height & width
- T-arm with sliding arm caps forward and backward, pads rotate
- Standard molded black base
- 2” dual wheel casters rubber coated
- Deep seat models ensure full leg support for taller individuals providing an additional 2.5” of adjustment.
- Weight limit up to 400 lbs

Upholstery:
- Content: 80% Post-Consumer Recycled Polyester/20% Virgin Polyester/PFAS Free Stain Repellent Finish
- Double Rubs: ASTM D-4157 (Warp: exceeds 300,000 double rubs) / #10 Duck-Wyzenbeek Method
- Cleaning: Water and solvents
- NFPA 260/BIFMA Class A/UFAC Class 1/CAL TB117-2013
- Light Fastness: AATCC-16A (Class 4.5)
- Pilling: ASTM D-3511 (Class 4.5)

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

Project: ODOT OSU Multipurpose
Location: Stillwater, OK
Issued Date: 1/21/2026
Project Number: 23 018

Revision Date:

TAG:
TC2

Item: Task Chair

Manufacturer: Global
Series: Obusforme Comfort XL – Medium Back
Location: 111

Finishes:

Frame:
Black (BK)

Upholstery:
Global-Carrera-Flannel
(CE90)

*Images may not depict actual components.

Description:
- Overall dimensions: 28”W x 26”D x 44.5”H
- Medium Back
- Upholstered seat and back

Warranty:
- Limited Lifetime Warranty preferred except:
- 5-year warranty foam and textiles
- 12-year warranty control mechanisms

Features:
- Synchro Tilter with back angle adjustment
- Adjustable height & width
- T-arm with sliding arm caps forward and backward, pads rotate
- Standard molded black base
- 2” dual wheel casters rubber coated
- Deep seat models ensure full leg support for taller individuals providing an additional 2.5” of adjustment.
- Weight limit up to 400 lbs

Upholstery:
- Content: 80% Post-Consumer Recycled Polyester/20% Virgin Polyester/PFAS Free Stain Repellent Finish
- Double Rubs: ASTM D-4157 (Warp: exceeds 300,000 double rubs) / #10 Duck-Wyzenbeek Method
- Cleaning: Water and solvents
- NFPA 260/BIFMA Class A/UFAC Class 1/CAL TB117-2013
- Light Fastness: AATCC-16A (Class 4.5)
- Pilling: ASTM D-3511 (Class 4.5)

STUDIO ARCHITECTURE

OKLAHOMA
Office of Management
& Enterprise Services

TAG:
TC3

EXISTING TASK CHAIRS PROVIDED AND INSTALLED BY OWNER

STUDIO
ARCHITECTURE