GENERAL NOTES

BUILDING CODE
THE 2021 EDITION OF THE 'INTERNATIONAL BUILDING CODE' (IBC), AS ADOPTED OR AMENDED BY THE LOCAL BUILDING OFFICIAL OR JURISDICTION, SHALL GOVERN DESIGN AND CONSTRUCTION.

ENGINEER
THE TERM 'ENGINEER', 'EOR', AND/OR 'SE' AS USED IN THESE STRUCTURAL DOCUMENTS SHALL MEAN BRIENEN STRUCTURAL ENGINEERS, P.S.

REFERENCE STANDARDS
ALL WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE REFERENCE STANDARDS AND CODES INDICATED IN THE DRAWINGS UNLESS NOTED OTHERWISE. REFERENCE TO ASTM AND OTHER STANDARDS SHALL MEAN THE LATEST EDITION AS OF THE BID DATE OR DATE OF OWNER-CONTRACTOR AGREEMENT, WHICHEVER IS LATER, UNLESS NOTED IN THESE DOCUMENTS OR DESIGNATED BY THE BUILDING CODE.

PRIME CONTRACT DRAWINGS
THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND LANDSCAPING, AMONG OTHERS, ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS TO THE PRIME CONTRACT DRAWINGS, STRUCTURAL DRAWINGS, AND OTHER SUPPLEMENTARY DRAWINGS.

OMISSIONS/CONFLICTS
CONTRACTOR SHALL VERIFY ALL DIMENSIONS, FLOOR ELEVATIONS, DEPRESSIONS, FINISHES, STAIR DETAILS, GUARDRAILS, AND ETC. WITH OTHER DISCIPLINES INCLUDING ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.

TYPICAL DETAILS
TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE. SOME TYPICAL DETAILS ARE CUT OR OTHERWISE REFERENCED IN THE DRAWINGS HOWEVER MOST OR NOT. WHERE TYPICAL DETAILS ARE NOTED ON THE DRAWINGS THE SPECIFIC DETAIL SHALL BE USED. WHERE NO DETAIL IS NOTED IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CHOOSE THE APPROPRIATE DETAIL FROM THOSE PROVIDED.

CONSTRUCTION MEANS AND METHODS AND SAFETY
CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS/METHODS AND FOR VERIFYING STRUCTURAL CAPACITY PRIOR TO APPLYING CONSTRUCTION LOADING. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY AT THE SITE AND FOR PROVIDING THE STRENGTH AND STABILITY OF ALL PARTIALLY COMPLETED STRUCTURE CONFORMING TO ASCE 37 'DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION'.

DESIGN CRITERIA

BUILDING CATEGORY
STRUCTURAL RISK CATEGORY II

GRAVITY LOADS - BATTERY ROOM MAINTENANCE ACCESS CEILING
DEAD LOADS 20 PSF UNIFORM TOTAL (INCLUDES 5PSF FOR MEP)
LIVE LOADS 40 PSF UNIFORM (MAINTENANCE ACCESS)

SEISMIC LOADS
SITE CLASS = D (ASSUMED)
MAPPED SPECTRAL RESPONSE PARAMETERS
Ss = 1.25? g; S1 = 0.434 g
Sds = 1.006 g; Sd1 = N/A

ANALYSIS TYPE = SEISMIC DESIGN REQUIREMENTS OF ARCHITECTURAL COMPONENTS (ASCE 7-16, SECTION 13.5)

INTERIOR WALLS AND BATTERY ROOM CEILING
a_p = 1.0
R_p = 2.5
Ω_0 = 2.0
TOTAL SEISMIC WEIGHT, W = 10.5 KIPS
TOTAL SEISMIC FORCE, Fp = 3.2 KIPS (LRFD)
LATERAL FORCE PER COLUMN, MAX $F_{p,COL}$ = 0.8 KIPS (LRFD)

REFERENCE STANDARDS

COLD-FORMED STEEL STANDARDS
SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
AISI S100-16(2020) w/ S2-20 - NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
AISI S202-20 - CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL STRUCTURAL FRAMING
AISI S220-20 - NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL NONSTRUCTURAL FRAMING
AISI S240-20 - NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURAL FRAMING
AISI S400-20 - NORTH AMERICAN STANDARD FOR SEISMIC DESIGN OF COLD-FORMED STEEL STRUCTURAL SYSTEMS

COLD-FORMED STEEL MATERIAL CRITERIA

MATERIAL
COLD-FORMED STEEL MATERIAL SHALL BE MANUFACTURED AND FORMED, PER ASTM A1003/A1003M, FROM GALVANIZED ASTM A653 SS GRADE 50 STEEL FOR 54, 68 AND 97 MIL BASE THICKNESS MATERIAL AND FROM GALVANIZED ASTM A653 SS GRADE 33 MATERIAL FOR 43 AND 33 MIL BASE THICKNESS MATERIAL, UNO. WHERE NOTED, PAINTED COLD-FORMED STEEL MATERIAL SHALL CONFORM TO ASTM A570 SS GRADE 80. MINIMUM COLD-FORMED STEEL ACCEPTANCE CRITERIA SHALL BE PER ICC-ES AC46.

COLD-FORMED STEEL FRAMING
ALL COLD-FORMED STEEL FRAMING SHALL BE IN ACCORDANCE WITH AISI "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", AS AMENDED BY THE INTERNATIONAL BUILDING CODE AND SHALL STRICTLY CONFORM WITH ICC REPORT ER-4943P.

ALL COLD-FORMED STEEL PRODUCTS SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). MATERIAL DESIGNATIONS NOTED ON THE DRAWINGS, RELATING TO MEMBER TYPES AND SIZES OR MISCELLANEOUS FRAMING ITEMS, REFER TO PRODUCT IDENTIFICATION STANDARDS ADOPTED BY THE SSMA.

INSTALLATION
EACH JOIST, RAFTER, TRUSS AND STRUCTURAL WALL STUDS SHALL BE ALIGNED WITHIN 3/4 FROM CENTERLINE OF HORIZONTAL FRAMING MEMBER TO CENTERLINE OF VERTICAL FRAMING MEMBER, UNO, OR AS SPECIFIED IN FIGURE C1-1 OF THE AISI STANDARD "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS". STRUCTURAL FRAMING MEMBERS SHALL BE INSTALLED PER ASTM C1007 AND NON-STRUCTURAL FRAMING MEMBERS PER ASTM C754.

CONCRETE BEARING SURFACES AT STRUCTURAL FRAMING SHALL PROVIDE A UNIFORM BEARING SURFACE WITH A MAXIMUM 1/4" GAP BETWEEN THE TRACK AND THE CONCRETE. STEEL BEARING SHIMS OR NON-SHRINK GROUT CAN BE USED TO ACHIEVE THIS REQUIREMENT. THE BOTTOM TRACK OF LOAD BEARING WALLS SHALL NOT EXTEND OVER THE EDGE OF FORMED CONCRETE BEARING SURFACES BELOW.

COLD-FORMED STEEL SHALL NOT BE IN DIRECT CONTACT WITH THE GROUND UNLESS NOTED OTHERWISE.

SCREWS
FOR STEEL-TO-STEEL CONNECTIONS AND FOR STRUCTURAL SHEATHING-TO-STEEL CONNECTIONS SHALL BE SELF TAPPING, SELF DRILLING FASTENERS IN COMPLIANCE WITH ASTM C1513 AND SHALL HAVE A TYPE II COATING IN ACCORDANCE WITH ASTM B633 "ELECTRO-DEPOSITED COATING OF ZINC ON IRON AND STEEL". SELF-PIERCING SCREWS PER ASTM C1002 ARE PERMITTED FOR CONNECTION OF .33 MILS STEEL OR THINNER. THE SCREW MANUFACTURER SHALL PROVIDE VERIFICATION OF THE FASTENERS' RESISTANCE TO HYDROGEN EMBRITTLEMENT. SCREWS SHALL CONFORM TO SAE J78 "STANDARD SPECIFICATION FOR SELF-DRILL TAPPING SCREWS". SCREW ACCEPTANCE SHALL BE BASED ON ICC-ES AC118 "ACCEPTANCE CRITERIA FOR TAPPING SCREW FASTENERS".

SCREW CONNECTIONS SHALL BE IN COMPLIANCE WITH THE AISI STANDARD "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS, 2007 EDITION". SCREW CONNECTIONS SHALL BE MADE FROM THE LIGHTER MATERIAL INTO THE THICKER MATERIAL, UNO. SCREWS SHALL EXTEND THROUGH THE STEEL CONNECTION A MINIMUM OF THREE EXPOSED THREADS AND SHALL HAVE MINIMUM CENTER-TO-CENTER SPACING AND EDGE DISTANCES OF THREE TIMES THE NOMINAL SCREW DIAMETER. SCREWS SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL NOT CAUSE PERMANENT SEPARATION BETWEEN COMPONENTS. SHEATHING FASTENERS SHALL MAINTAIN A MINIMUM 3/8" EDGE DISTANCE IN SHEATHING AND SHALL HAVE THEIR HEADS FLUSH WITH THE SHEATHING (BUT NO MORE THAN 1/16" BELOW THE SURFACE OF THE SHEATHING).

STRIPPED SCREWS IN DIRECT TENSION SHALL BE CONSIDERED INEFFECTIVE AND SHALL BE REPLACED. STRIPPED SCREWS IN SHEAR THAT CONSTITUTE MORE THAN 25% OF THE TOTAL SCREWS IN THE CONNECTION SHALL BE CONSIDERED INEFFECTIVE AND SHALL BE REPLACED. STRIPPED SCREWS ARE PERMITTED TO BE REMOVED AND REPLACED WITH SCREWS OF THE NEXT LARGER DIAMETER.

MINIMUM SCREW SIZES IN COLD-FORMED STEEL TABLE

CONNECTION	MINIMUM SCREW SIZE
METAL TO METAL (68 MILS)	#10-16 (#3 POINT)
METAL TO METAL (33 MILS - 54 MILS)	#8-18 (#2 POINT)
APA SHEATHING (PLYWOOD)	#8-18 (#2 POINT FLAT HEAD w/ 0.292"Ø HEAD MIN
GWB OR GYPSUM SHEATHING	#6 x 1" (#2 POINT) DRYWALL
SIMPSON HARDWARE	PER SIMPSON CATALOG

COLD FORMED STEEL CONNECTORS
COLD-FORMED STEEL CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY THE SIMPSON STRONG-TIE COMPANY. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER, LENGTH, TYPE, AND SIZE OF FASTENERS AS SPECIFIED BY THE MANUFACTURER. FILL ALL HOLES WITH FASTENERS AS SPECIFIED BY THE MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

CONCRETE SCREW-TYPE ANCHORS
SCREW-TYPE ANCHORS INTO CONCRETE SHALL BE "HILTI KH-EZ", INSTALLED PER ICC REPORT NUMBER ESR-3027 OR "SIMPSON TITEN HD" INSTALLED PER ICC REPORT NUMBER ESR-2713.

COLD-FORMED STEEL FRAMING NOTES

INTERIOR PARTITION FRAMING SCHEDULE NOTES

1. FULLY-SHEATH EACH FACE OF STUDS FULL-HEIGHT OR PROVIDE BRIDGING/BRACING AT 48" OC MAX UNLESS NOTED OTHERWISE. STUD TYPES DENOTED AS "COMPOSITE" IN WALL SCHEDULES SHALL BE FULLY-SHEATHED ON EACH FACE OF STUDS FULL-HEIGHT PER RECOMMENDATIONS AND REQUIREMENTS BY THE STUD MANUFACTURER. WHERE WALLS ARE NOT FULLY-SHEATHED FULL-HEIGHT, STUD TYPES DENOTED AS "COMPOSITE" SHALL NOT BE USED.
2. ALL STUDS SHALL FULLY BEAR ON BOTTOM TRACK – SHIM WHERE NECESSARY. WEB STIFFENERS ARE NOT REQUIRED UNLESS OTHERWISE SPECIFIED.
3. TOP/BOTTOM TRACK PENETRATIONS OR CLIPPED FLANGES UP TO 2/3(TRACK WIDTH) ARE STRUCTURALLY ACCEPTABLE WHEN 16" CLEAR FROM ANY JAMB STUDS - ADD ANCHOR ON EITHER SIDE OF OPENING IF PAF IS INTERRUPTED.
4. WALL STUDS, CRIPPLE STUDS, JAMBS, HEADERS AND SILLS SHALL NOT BE SPLICED.
5. ALL COLD-FORMED STEEL STUDS, TRACKS AND LIGHT GAGE ANGLES SHALL CONFORM TO ASTM A653 SS GRADE 50 (Fy=50KSI) FOR 118, 97, 68 AND 54 MILS MEMBERS AND ASTM 653 SS GRADE 33 (Fy=33KSI) FOR 43 MILS AND LIGHTER MEMBERS. EXCEPTION: MEMBERS WITH "SFS", AND "SFT" DESIGNATIONS SHALL BE "SUPREME" MEMBERS AS MANUFACTURERED BY SCAFCO AND CONFORM TO ASTM A653 SS GRADE 50 MOD 57 (Fy=57KSI). "VXS" AND "VXT" MEMBERS SHALL "VIPER-X" MEMBERS AS MANUFACTURERED BY CEMCO AND CONFORM TO ASTM A653 SS (Fy= 57KSI).
6. SHOTPINS SHALL BE ONE OF THE FOLLOWING UNLESS NOTED OTHERWISE:
   A. HILTI X-U POWDER-ACTUATED FASTENERS (PAF), EMBEDDED 3/4" INTO CONCRETE. INSTALL FASTENERS PER REQUIREMENTS FROM ICC-ES REPORT ESR-2269 AND ALL MANUFACTURER RECOMMENDATIONS.
   B. HILTI X-GHP GAS-ACTUATED FASTENERS, EMBEDDED 5/8" INTO CONCRETE. INSTALL FASTENERS PER REQUIREMENTS FROM ICC-ES REPORT ESR-1752 AND ALL MANUFACTURER RECOMMENDATIONS.
   C. HILTI X-P B3 ELECTROMECHANICAL-DRIVEN FASTENERS, EMBEDDED 5/8" INTO CONCRETE. INSTALL FASTENERS PER REQUIREMENTS FROM ICC-ES REPORT ESR-1752 AND ALL MANUFACTURER RECOMMENDATIONS.
   D. SHOTPINS INSTALLED IN STRUCTURAL STEEL SHALL BE DRIVEN TO WHERE THE POINT OF THE FASTENER PENETRATES THE STEEL BASE MATERIAL.
7. FOR ALL SHOTPINS UNLESS NOTED OTHERWISE:
   - MINIMUM SPACING IN CONCRETE SHALL BE 4" OC.
   - MINIMUM EDGE DISTANCE IN CONCRETE SHALL BE 3".
   - MINIMUM SPACING IN STEEL SHALL BE 1 1/2" OC.
   - MINIMUM EDGE DISTANCE IN STEEL SHALL BE 1/2".
8. CONCRETE SCREWS SHALL BE HILTI KWIK-CON II+ HEX WASHER HEAD. SEE DETAILS FOR REQUIRED EMBEDMENTS. ALL DRILLING IN CONCRETE SHALL CONFORM TO REQUIREMENTS BY BUILDING ENGINEERING OF RECORD. DO NOT DAMAGE REINFORCING.
9. SHEET-METAL SCREWS (SMS) SHALL BE SELF-TAPPING, SELF-DRILLING FASTENERS IN COMPLIANCE WITH ASTM C1513 AND SHALL HAVE A TYPE II COATING IN ACCORDANCE WITH ASTM B633.
10. ANCHOR TOP TRACKS AND BOTTOM TRACKS TO SUPPORTING STRUCTURE PER SCHEDULE. ALL SUPPORTING STRUCTURES SHALL BE REVIEWED BY OTHERS FOR LOADS IMPOSED BY NEW METAL STUD FRAMING.
11. AT FIREPROOFING IT IS ACCEPTABLE TO INSTALL TOP TRACK DIRECTLY TO FIREPROOFING AS LONG AS NO MORE THAN 1/4" GAP PERSISTS BETWEEN TRACK AND STRUCTURAL SUPPORT.
12. IT IS STRUCTURALLY ACCEPTABLE TO USE A THICKER FRAMING MEMBER PROVIDED THE WEB SIZE REMAINS UNCHANGED AND FLANGE SIZE REMAINS UNCHANGED OR IS INCREASED.

CEILING JOIST FRAMING NOTES:

1. THE PLYWOOD WEAR SURFACE IS PROVIDED TO BE THE BRACING ELEMENT OF THE COLD FORMED STEEL CEILING JOIST MEMBERS. FASTENERS SHALL BE PER THESE GENERAL NOTES, AND SHALL BE SPACED EQUAL OR LESS THAN 12" OC.
2. THE GYP SHEATHING ON THE BOTTOM OF THE JOIST IS NOT A BRACING ELEMENT OF THE COLD FORMED STEEL CEILING JOIST MEMBERS AND REQUIRES BRIDGING PER THE TYPICAL DETAILS PROVIDED.
3. THE FULL CAPACITY OF THE FRAMING JOISTS WILL NOT BE SUPPORTED BY THE SYSTEM UNTIL ALL FLEXURAL BRACING PROVIDED IN ITEMS 1 AND 2 ABOVE ARE INSTALLED PER THE DETAILS PROVIDED, AND CONSTRUCTION LIVE LOADS TO INSTALL THESE ELEMENTS SHOULD BE LIMITED.

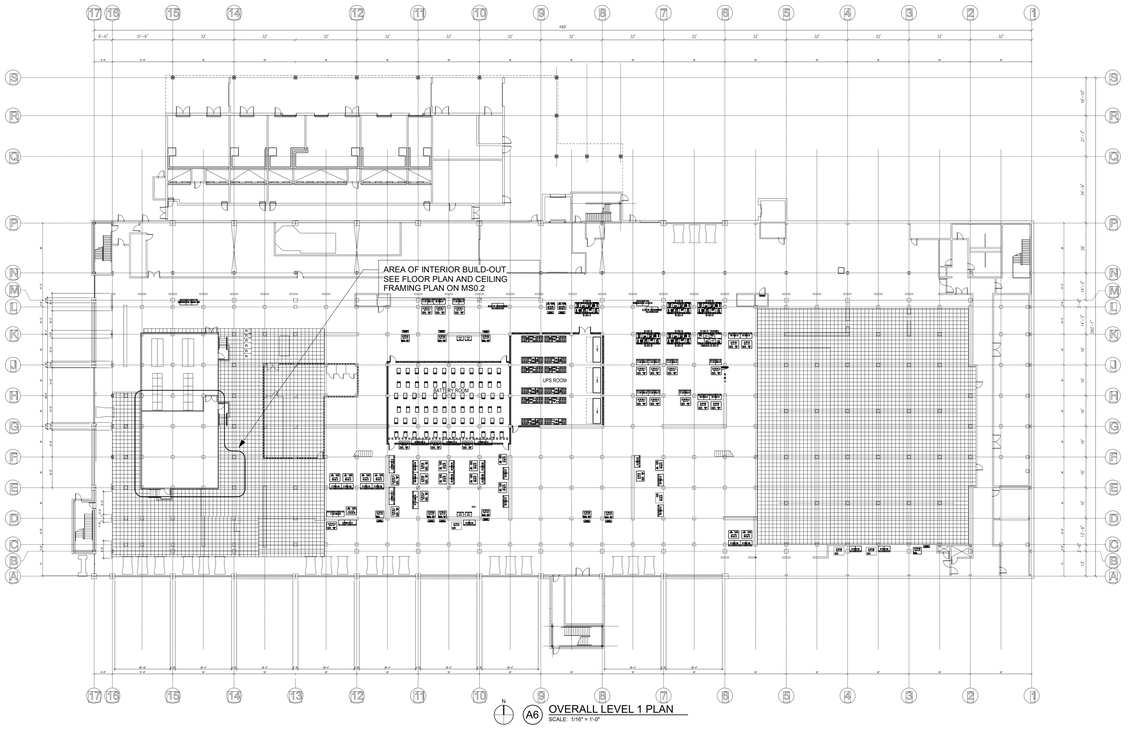
Prior to installation:
Review anchor product's ESR and install the product per the report. If special inspection(s) are required - the final special inspection report must be on site during City inspections.

STATEMENT OF SPECIAL INSPECTIONS

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND AS NOTED HEREIN.

COLD-FORMED STEEL FRAMING

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	NOTES
SCREW ATTACHMENT, AND FASTENING OF DIAPHRAGMS, AND DRAG STRUTS, ANTHAT ARE PART OF SEISMIC RESISTING SYSTEM		X	AWS D1.3 IBC 1705.12.2, 1705.13.3	EXCEPTIONS PER IBC 1705.12.2
NON LOAD BEARING WALLS		X	IBC 1705.13.5	EXCEPTIONS PER IBC...



1 OVERALL PLAN
1/32" = 1'-0"

A6 OVERALL LEVEL 1 PLAN
SCALE: 1/16" = 1'-0"

NOTES:
1. DRAWING PROVIDED IS "OVERALL LEVEL 1 FLOOR PLAN" BY CASCADE MISSION CRITICAL, LLC, AS PART OF THE PRELIMINARY REVIEW SET, DATED 01/02/2024.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

The approved construction plans, documents, and all engineering must be posted on the job at all inspections in a visible and readily accessible location.

Full sized legible color plans are required to be provided by the permitee on site for inspection.

Approval of submitted plans is not an approval of omissions or oversights by this office or non compliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

City of Puyallup
Building
REVIEWED FOR COMPLIANCE
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BSE
Brienen
Structural
Engineers
1316 Central Ave. S., Suite 200
Kent, WA 98032
(206) 397-0000 ~ www.bse-ps.com

sessler CONTRACTORS, INC.

CENTERIS VOLTAGE PARK
SCALE MATRIX BATTERY ROOM BUILD-OUT
1023 39TH AVENUE SOUTH EAST
PUYALLUP, WA 98374

Δ	Issue	Date
	For Approval	05/03/2024
1	Permit Rvisions	06/14/2024

Job # 24201.4
Drawn BJB
Checked PJB

COVER SHEET

MS0.1

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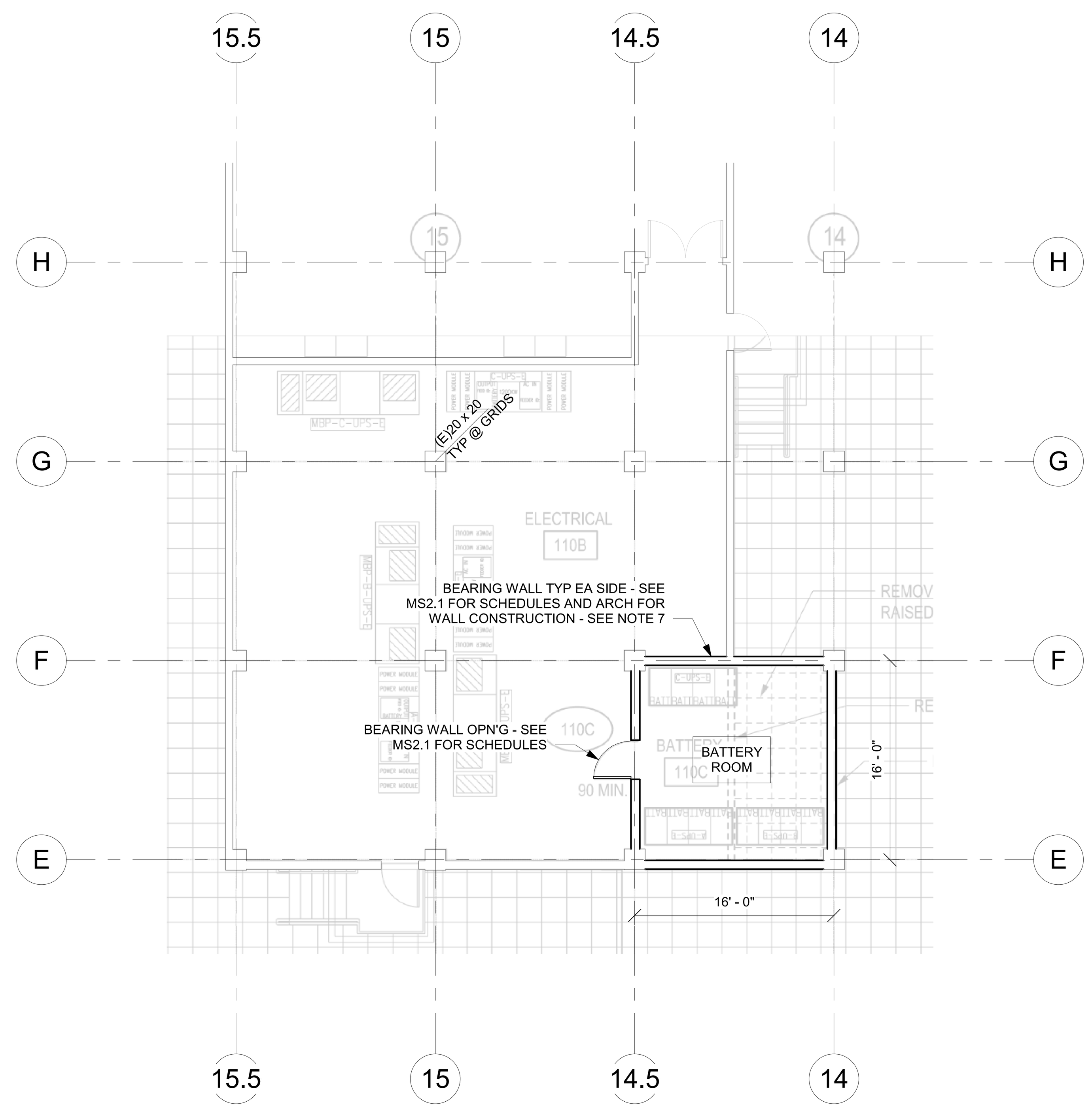
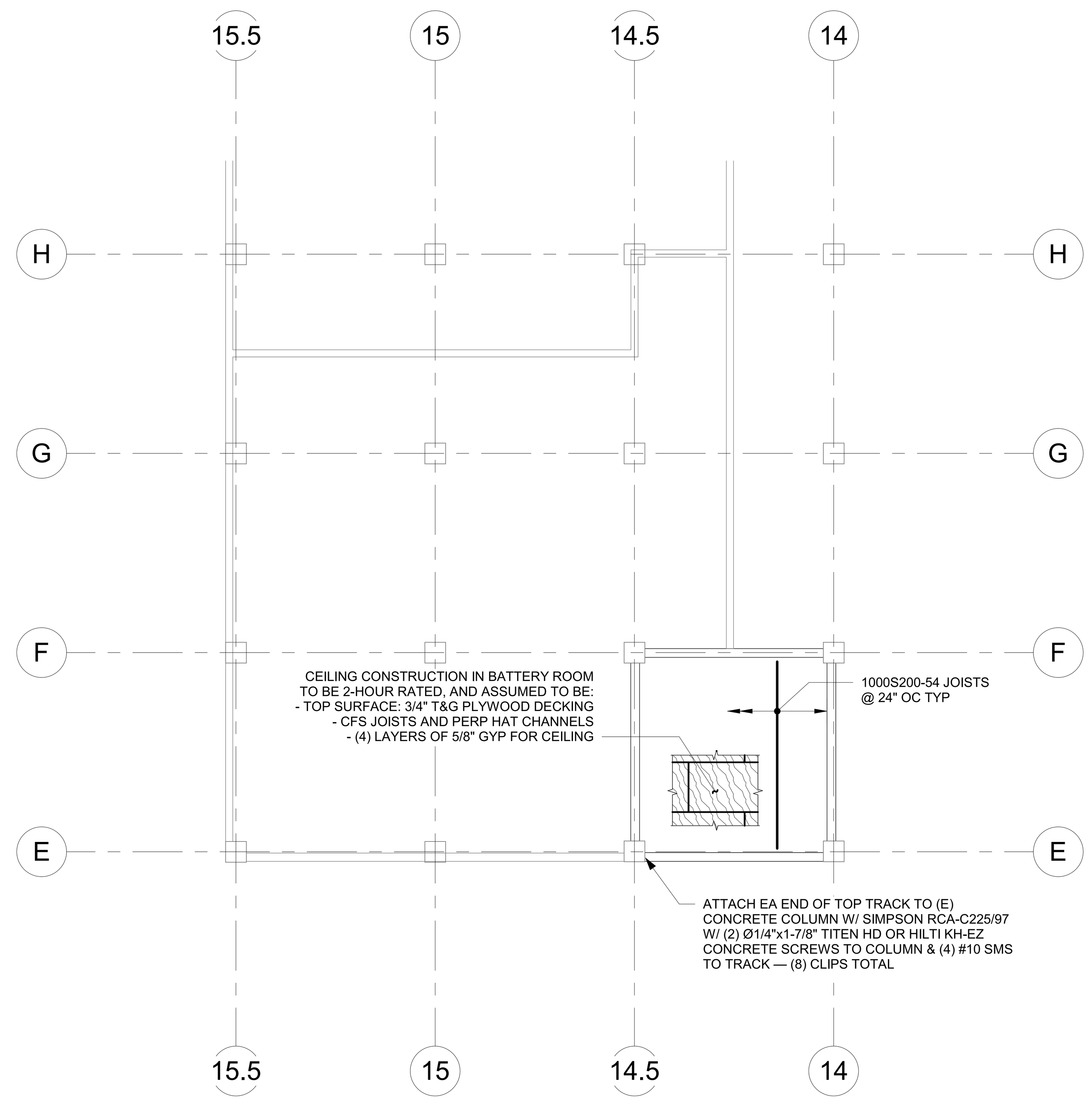


1 SLAB ON GRADE PLAN

1/8" = 1'-0"



2 TOP OF WALL PLAN

1/8" = 1'-0"

PLAN SHEET NOTES:

1. FOR TYPICAL DETAILS FOR CFS INFILL WALL CONSTRUCTION, SEE SHEETS MS1.1 & MS1.2.
2. FOR INTERIOR CFS STUD WALL SCHEDULES, SEE SHEET MS2.1.
3. EXISTING SLAB ON GRADE IS ASSUMED TO BE A MINIMUM OF 4" THICK CONCRETE WITH F'c ≥ 4000 PSI.
4. EXISTING COLUMNS SHOWN ARE ASSUMED TO BE 20"x20" SQUARE CONCRETE COLUMNS WITH ≥ 1% REINFORCING STEEL AND #4 TIES AT 4 1/2" OC VERTICALLY.
5. WALL DESIGN INCLUDES UP TO (4) LAYERS OF GYP FOR FIRE RATINGS. IF ADD'L LAYERS OF GYP ARE REQUIRED FOR FIRE ASSEMBLY, NOTIFY THE ENGINEER.
6. LATERAL SEISMIC LOADS FROM NEW CEILING ARE RESISTED BY PLYWOOD DIAPHRAGM ACTION OF THE PLYWOOD SHEATHING TO THE (E) CONCRETE COLUMNS. BUILDING EOR TO VERIFY THAT A LATERAL LOAD OF 0.8 KIPS AT THE BATTERY ROOM CEILING FRAMING HEIGHT IS STRUCTURALLY ACCEPTABLE.
7. CFS BEARING WALLS SHALL BE FULLY BLOCK ALONG THEIR HEIGHT PER 12/MS1.1.
8. CONTRACTOR COORDINATE FINAL LOCATIONS OF ALL WALLS AND DOORS (WALL OPENINGS) - IF CHANGES OCCUR, NOTIFY THE ENGINEER.
9. SEE GENERAL NOTES ON MS0.1 FOR INFORMATION ON COLD-FORMED STEEL AND STRUCTURAL STEEL CONSTRUCTION.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

BSE
Brienen Structural Engineers
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Kent, WA 98032
(206) 397-0000 ~ www.bse-ps.com

PAUL J. BRIENEN
STATE OF WASHINGTON
32114
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

sessler INC
CONTRACTORS SINCE 1969

CENTERIS VOLTAGE PARK
SCALE MATRIX BATTERY ROOM BUILD-OUT

1023 39TH AVENUE SOUTH EAST
PUYALLUP, WA 98374

Δ	Issue	Date
	For Approval	05/03/2024

Job #	24201.4
Drawn	BJB
Checked	PJB

PLANS

MS0.2

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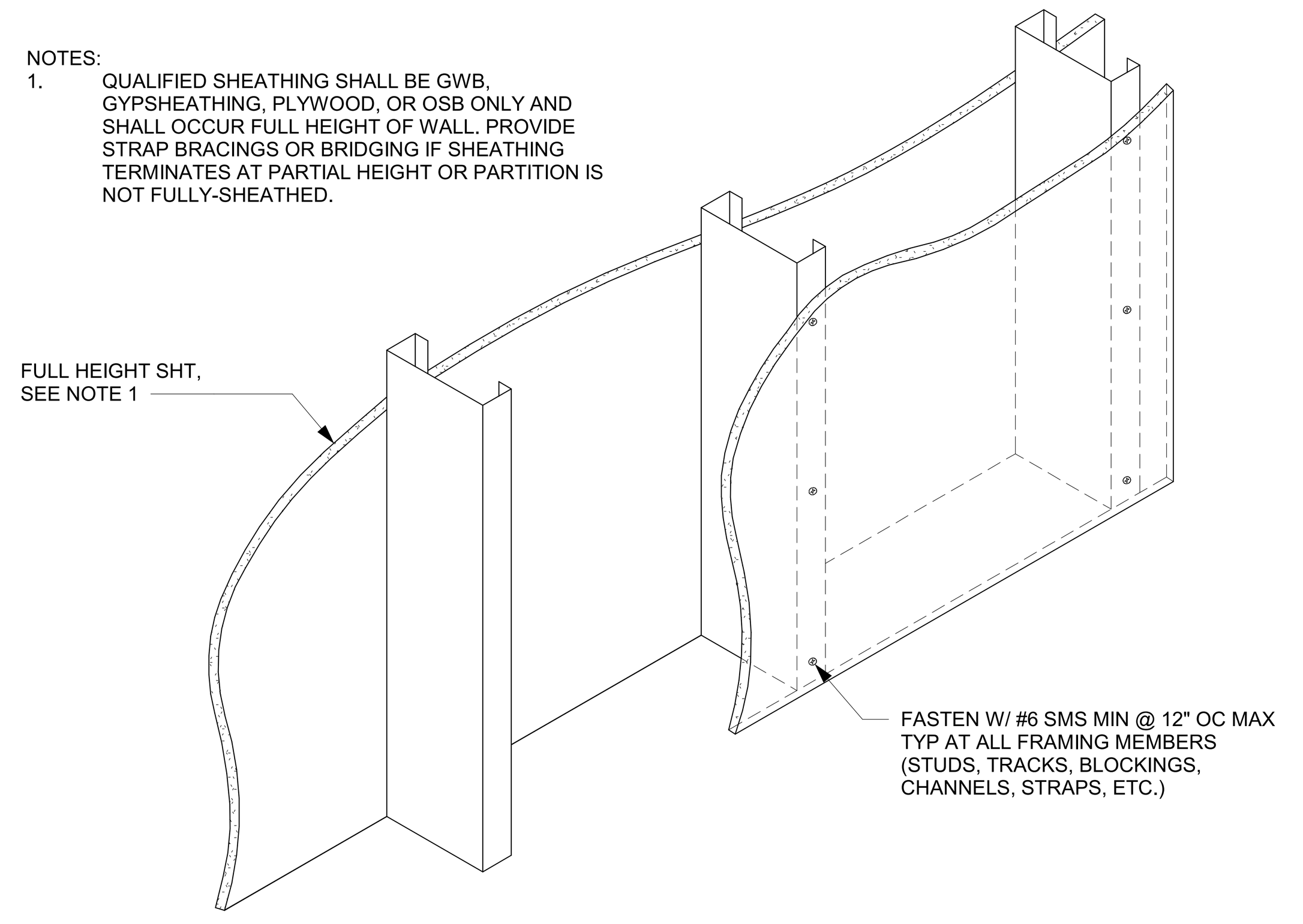
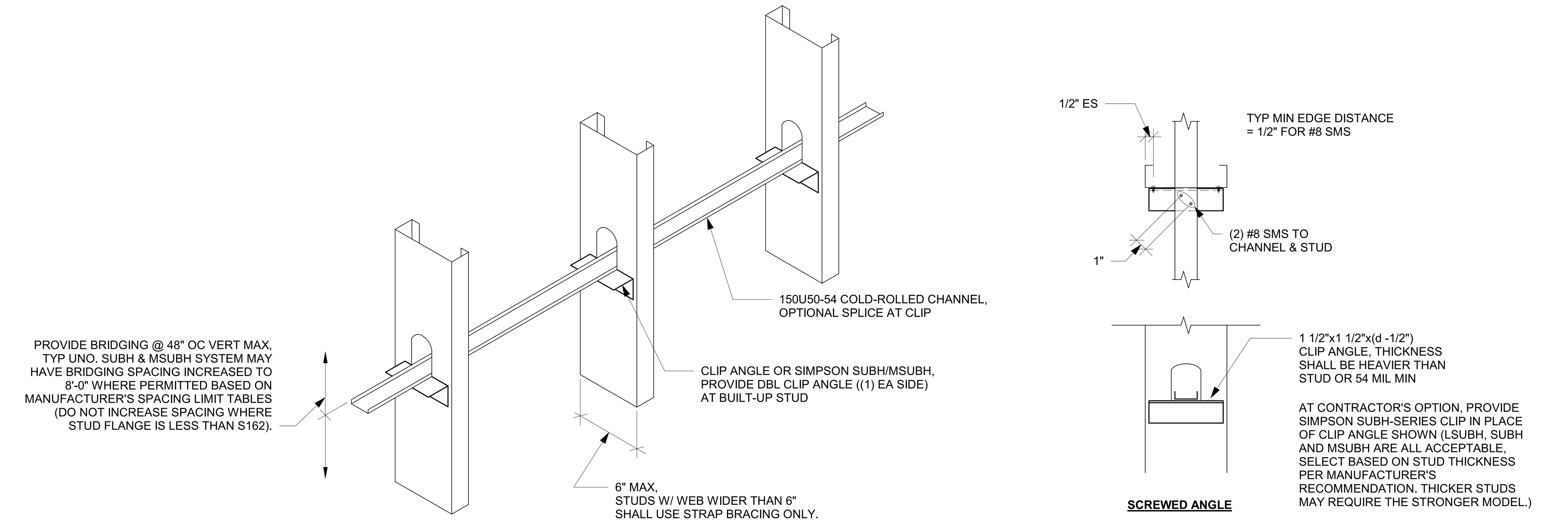
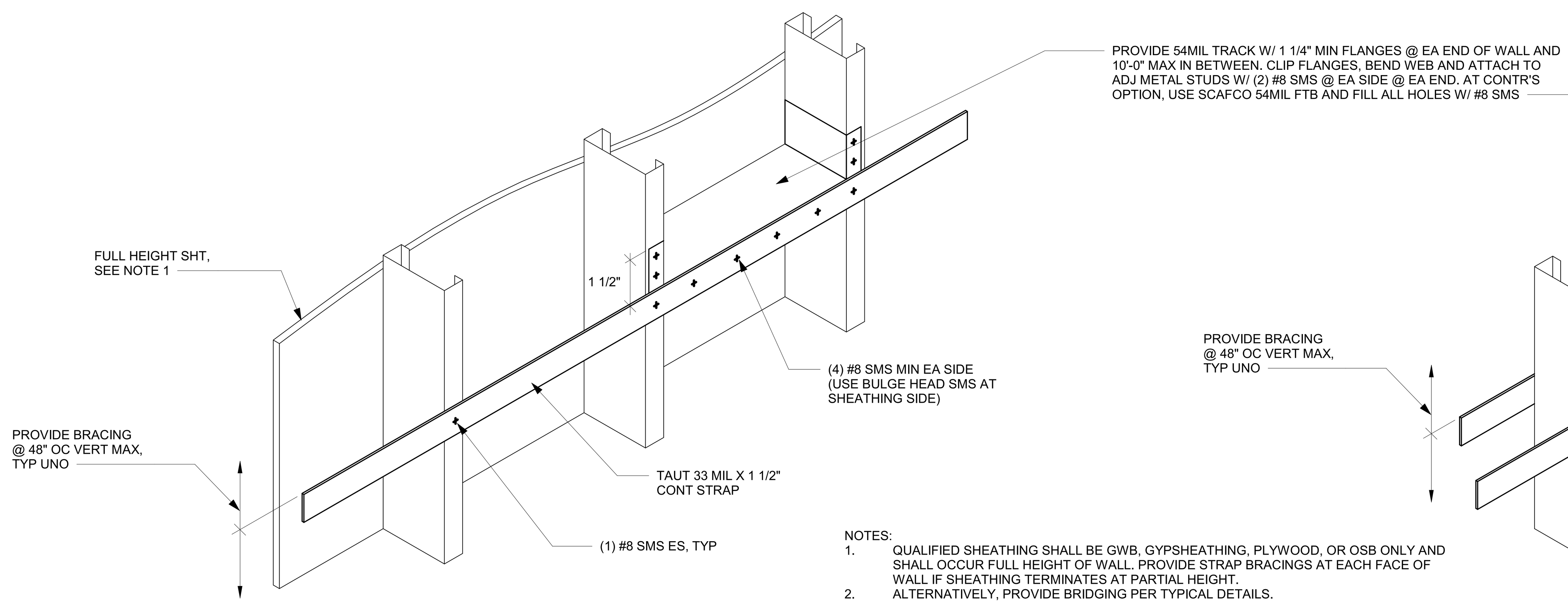


1 TYPICAL SHEATHINGS AT PARTITIONS
NTS

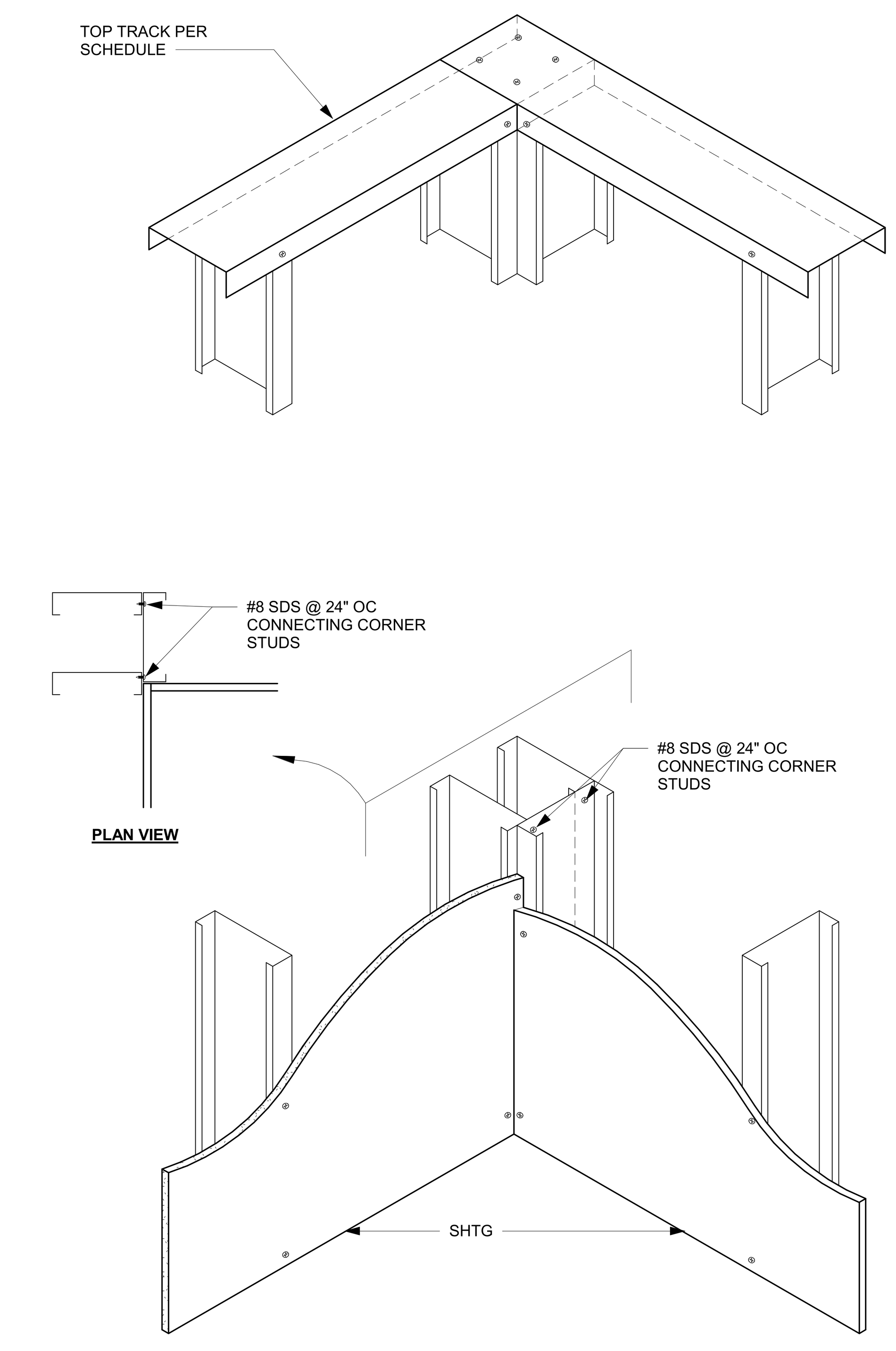


2 TYPICAL BRIDGING AT PARTITIONS
NTS

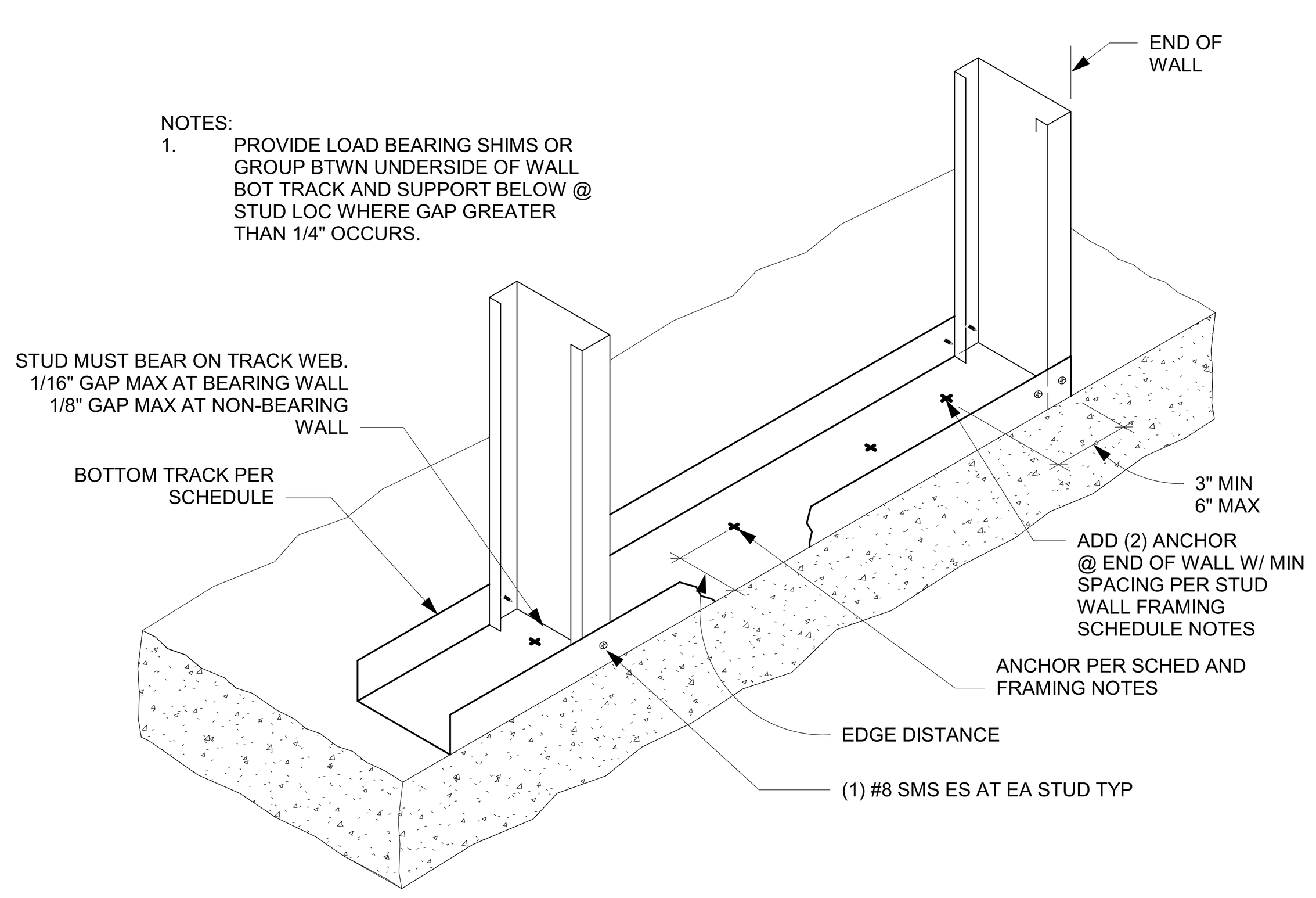


NOTES:
1. QUALIFIED SHEATHING SHALL BE GWB, GYPSHEATHING, PLYWOOD, OR OSB ONLY AND SHALL OCCUR FULL HEIGHT OF WALL. PROVIDE STRAP BRACINGS AT EACH FACE OF WALL IF SHEATHING TERMINATES AT PARTIAL HEIGHT.
2. ALTERNATIVELY, PROVIDE BRIDGING PER TYPICAL DETAILS.

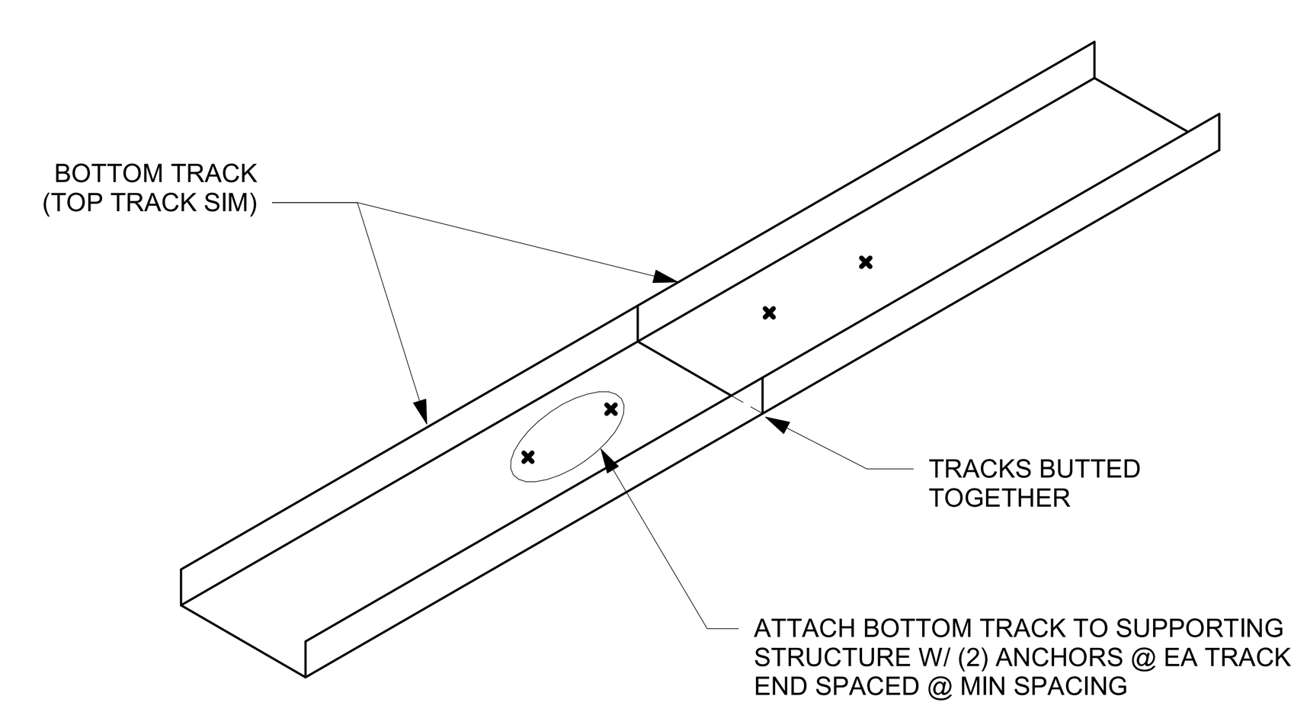
5 TYPICAL STRAP BRACING WHEN PARTITION IS NOT FULLY SHEATHED
NTS



8 TYPICAL STUD WALL AT CORNER
NTS

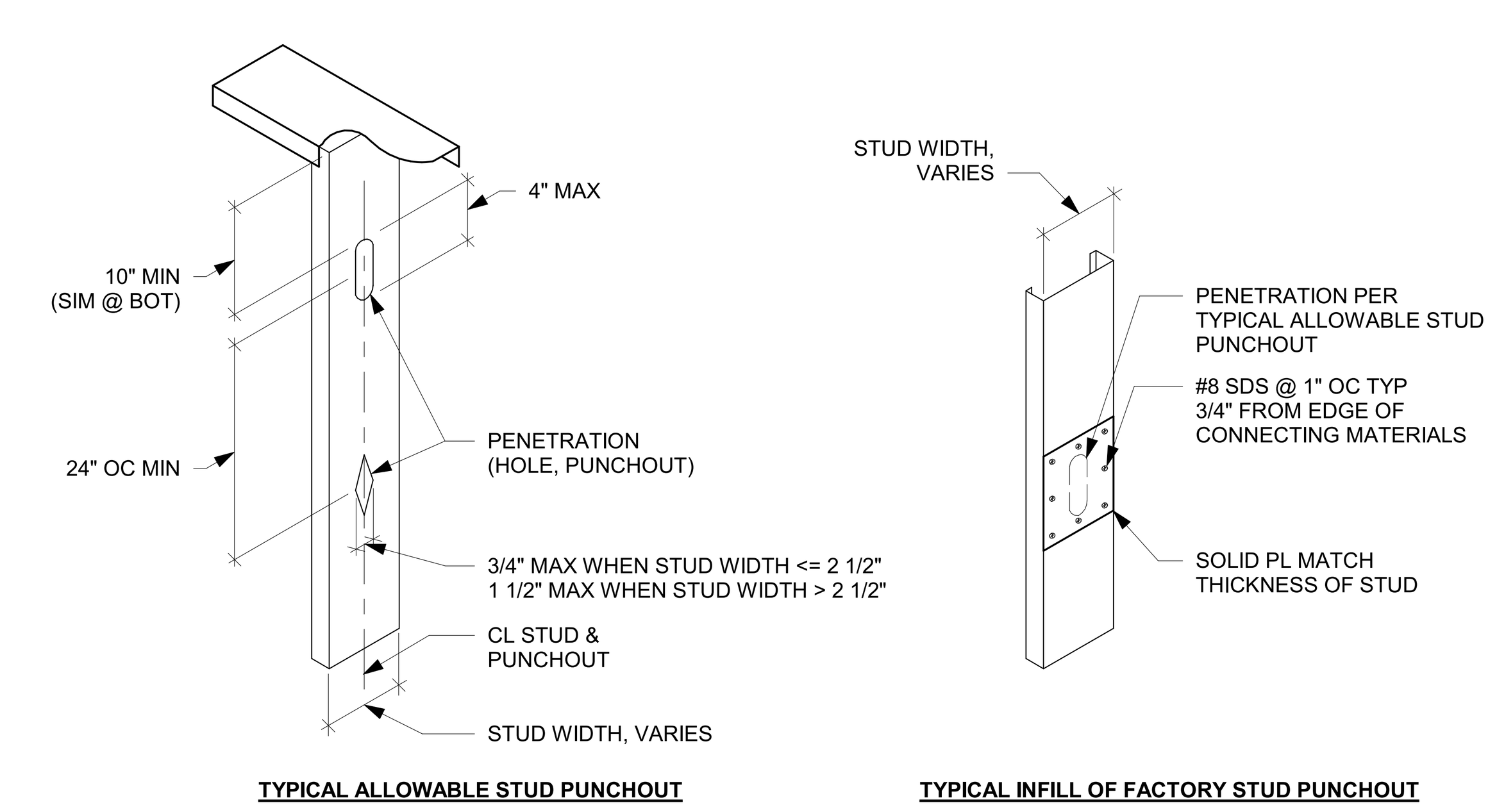


9 TYPICAL BOTTOM TRACK DETAIL UNO
NTS

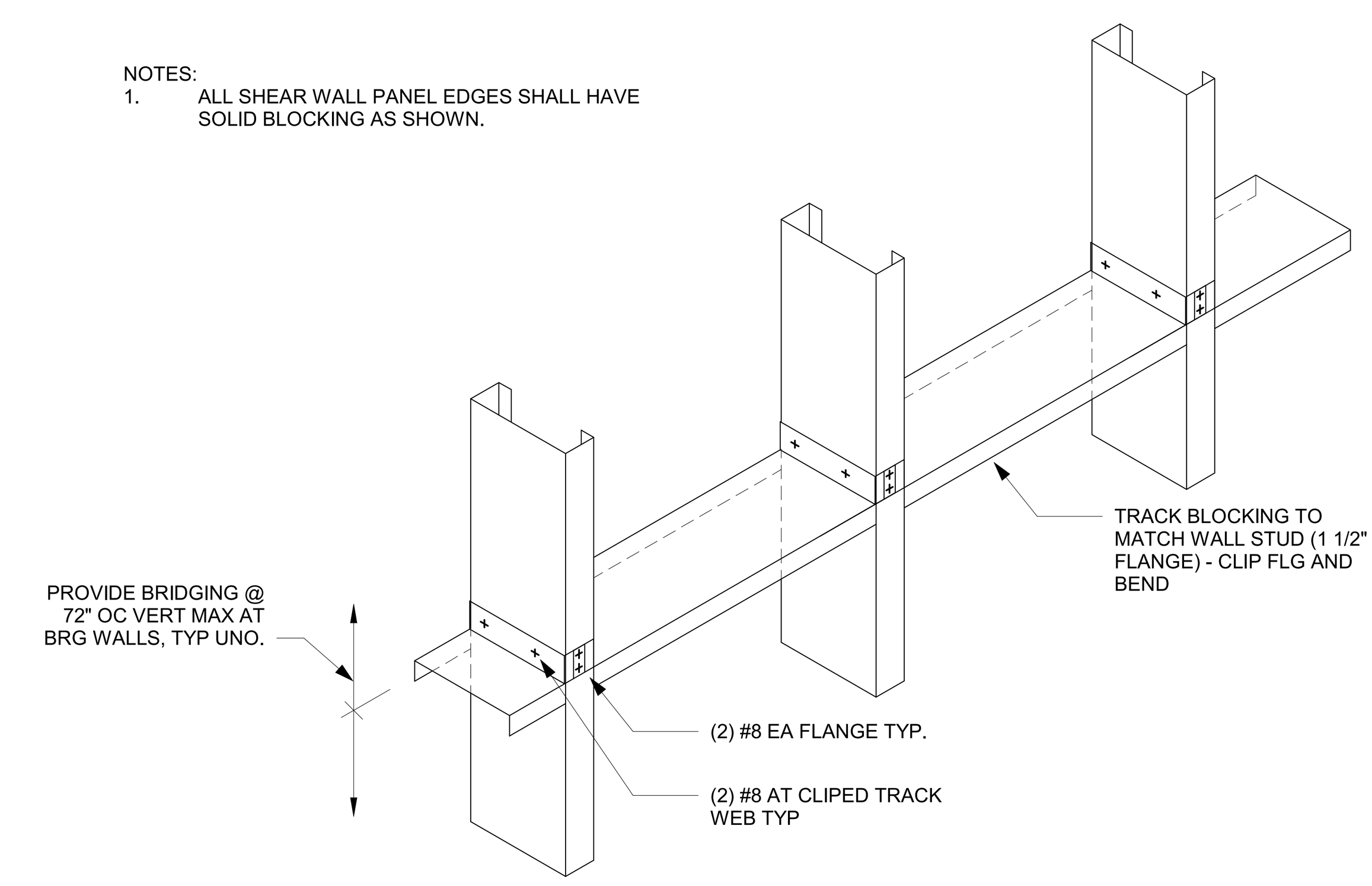


NOTES:
1. SPLICE TRACK 6" CLEAR FROM VERTICAL STUDS TYPICAL.
2. WHERE JAMB OCCURS, LOCATE TRACK SPLICE 12" MINIMUM CLEAR FROM JAMB.
3. SEE WALL SCHEDULE NOTES FOR ANCHOR TYPES.

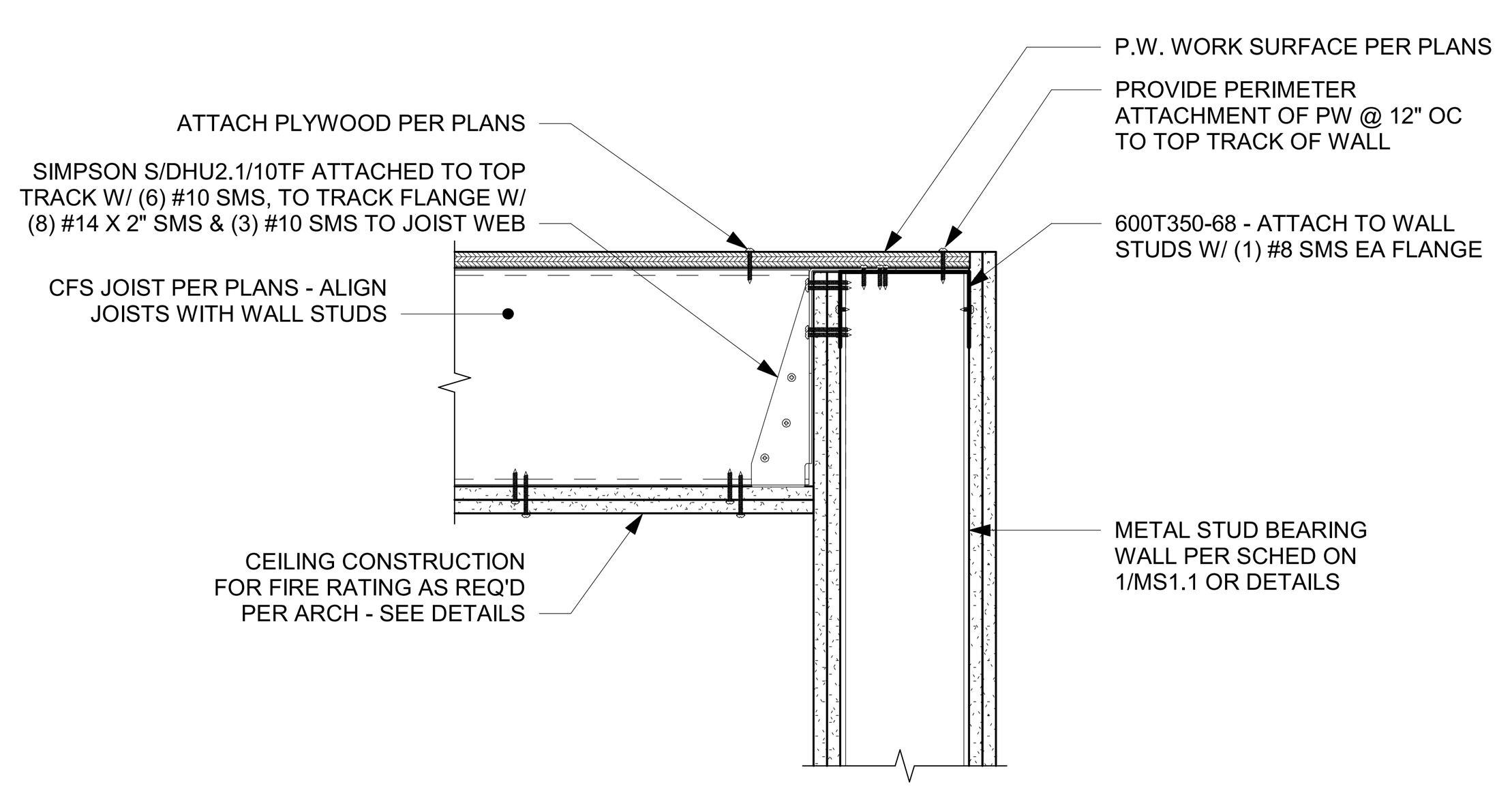
10 TYPICAL TRACK SPLICE
NTS



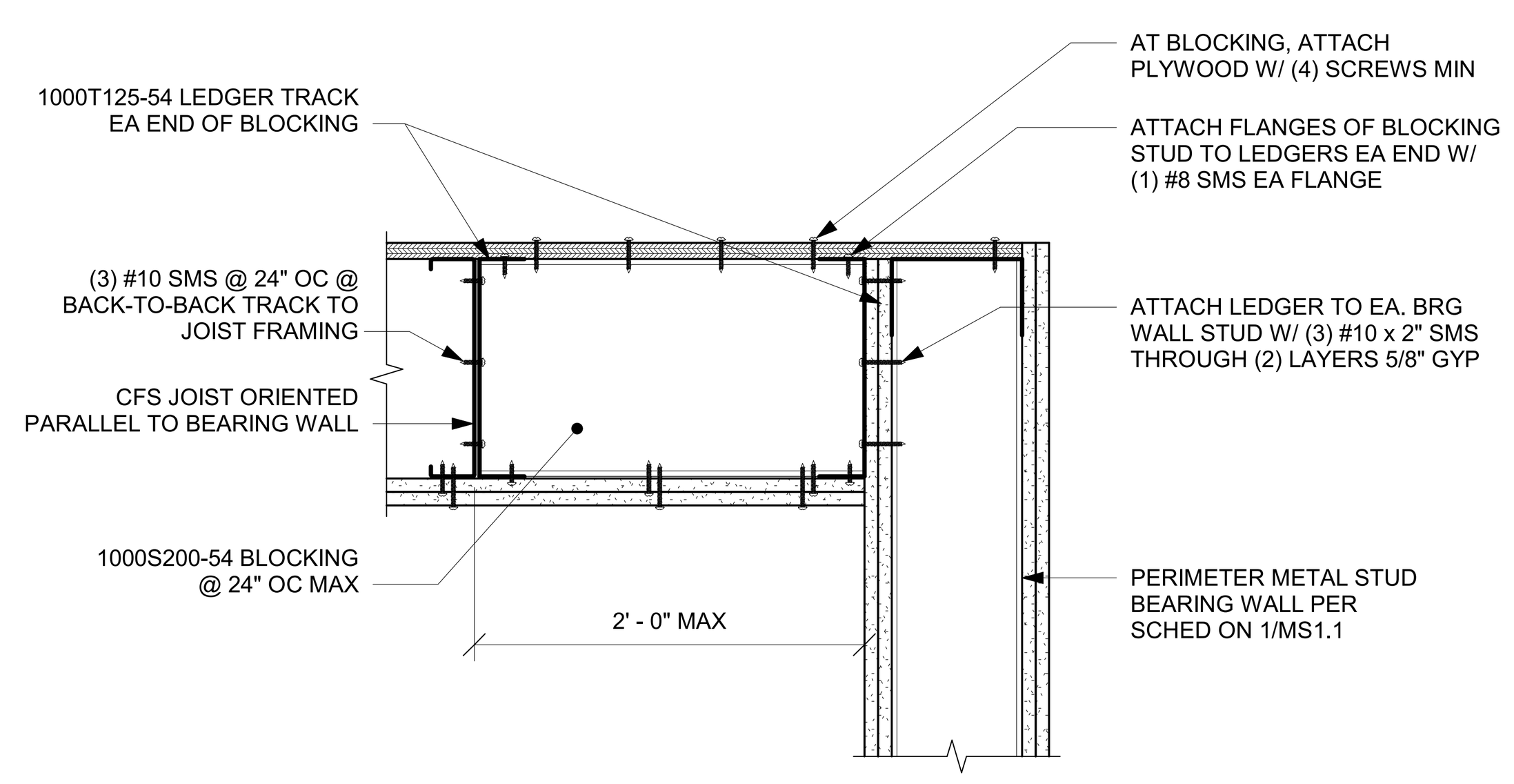
11 TYPICAL INT METAL STUD PUNCHOUT
NTS



12 TYPICAL BRIDGING AT BEARING AND SHEAR WALLS
1 1/2" = 1'-0"

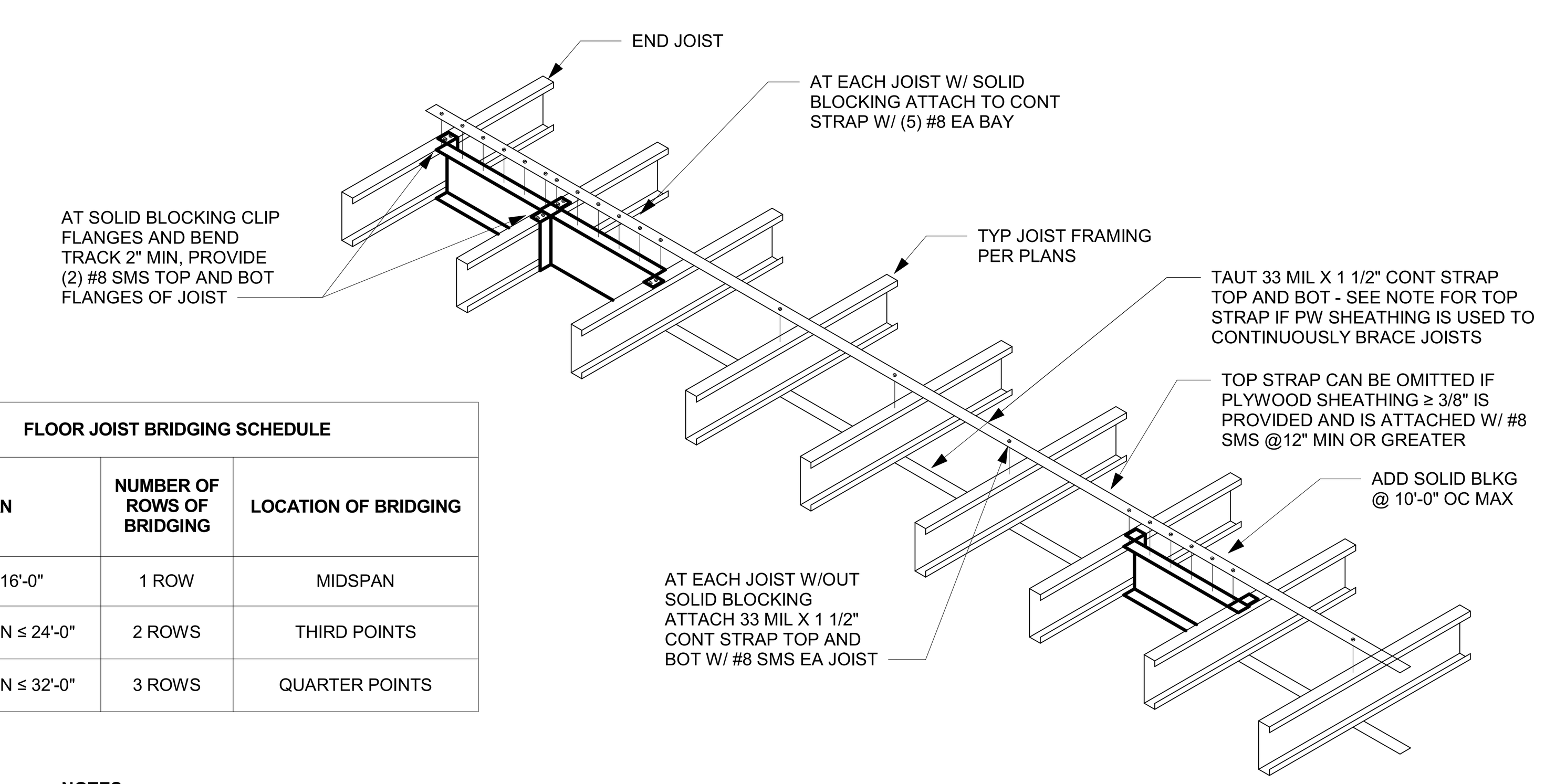


13 JOIST PERP TO PERIMETER BRG WALL
1 1/2" = 1'-0"



NOTES:
1. FOR INFORMATION NOT SHOWN, SEE13/MS1.1.

14 JOISTS PARALLEL TO PERIMETER BRG WALL
1 1/2" = 1'-0"



FLOOR JOIST BRIDGING SCHEDULE

SPAN	NUMBER OF ROWS OF BRIDGING	LOCATION OF BRIDGING
SPAN ≤ 16'-0"	1 ROW	MIDSPAN
16'-0" < SPAN ≤ 24'-0"	2 ROWS	THIRD POINTS
24'-0" < SPAN ≤ 32'-0"	3 ROWS	QUARTER POINTS

NOTES:
1. ADD SOLID BLOCKING FOR (2) BAYS ADJACENT TO ALL OPENINGS AND AT ENDS OF JOIST SYSTEM.

15 TYPICAL JOIST BRIDGING DETAIL
3/4" = 1'-0"

BSE
Brienen Structural Engineers
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CENTERIS VOLTAGE PARK
SCALE MATRIX BATTERY ROOM BUILD-OUT
1023 39TH AVENUE SOUTH EAST
PUYALLUP, WA 98374

Δ	Issue	Date
	For Approval	05/03/2024

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

Job #	24201.4
Drawn	BJB
Checked	PJB

INTERIOR TYPICAL DETAILS

MS1.1

TYPICAL BEARING INTERIOR PARTITION FRAMING SCHEDULE

(FOR TILE WALLS AND ELEVATOR AND VERTICAL SHAFT WALLS SEE OTHER SCHEDULES)

WALL WIDTH	WALL HEIGHT	STUD TYPE	SPACING	TRACKS		STUD-TO-TRACK CONNECTION	
				BOTTOM	TOP	BOTTOM	TOP
6"	UP TO 12'-0"	600S162-43	24" OC	600T125-33	600T350-68	A	B

TYPICAL INTERIOR BEARING PARTITION JAMB SCHEDULE

FOR NON-BEARING WALLS SEE OTHER SCHEDULE

WALL WIDTH	WALL HEIGHT	OPENING WIDTH	STUD TYPE	PROFILE	ASSEMBLY DETAILS	CONNECTION DETAILS	
						BOTTOM	TOP
6"	UP TO 12'-0"	UP TO 3'-6"	600S162-43 W/ 600T125-33 COVER		C	A	B

INTERIOR PARTITION TOP & BOTTOM TRACK ANCHOR SCHEDULE

WALL TYPE	WALL HEIGHT	ANCHOR SPACING (2) ANCHORS MINIMUM AT EACH END OF TRACK	
		ATTACHED TO CONCRETE	ATTACHED TO STRUCTURAL STEEL
ALL TYPICAL WALLS	UP TO 12'-0"	SHOTPIN @ 18" OC	SHOTPIN @ 30" OC

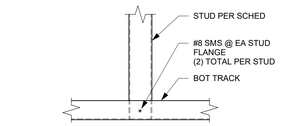
INTERIOR BEARING PARTITION HEADER SCHEDULE

WALL WIDTH	WALL HEIGHT	OPENING WIDTH	STUD TYPE	PROFILE	ASSEMBLY DETAILS	CONNECTION DETAILS TO JAMB
6"	UP TO 12'-0"	UP TO 3'-6"	(2) 400S125-33 BOXED W/ (2) 600T125-33		D	E

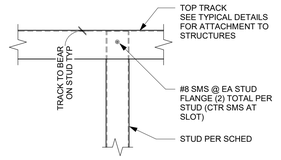
COLD-FORMED STEEL EQUIVALENT MEMBERS

SCHEDULED MEMBER	DESIGN THICKNESS [Fy]	SCAFCO EQUIVALENT	CEMCO EQUIVALENT
###S144-22 [57]	0.0235" [57ksi]	###SFS-33EQD	###VXS144-22
###T###-22 [57]	0.0235" [57ksi]	###SFT###-33EQD	###VXT###-22
###T250-## SLOTTED	VARIES [STD SSMA GRADES]	###SLT250-##	###CST250-##
MEMBER NOT LISTED SHALL FOLLOW SSMA STANDARDS.			

FOR INTERIOR PARTITION FRAMING SCHEDULE NOTES, SEE GENERAL NOTES ON MS0.01



A



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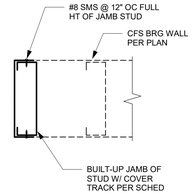

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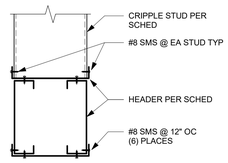

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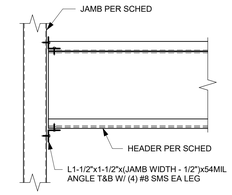

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NOT USED

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City of Puyallup
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1 INTERIOR PARTITION SCHEDULES AND DETAILS
NTS

PRCTI20240784

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PAUL J. BRIENEN — STATE OF WASHINGTON — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

sessler CONTRACTORS INC.

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INTERIOR PARTITION SCHEDULES & DETAILS

MS2.1

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