

1 PARTIAL SITE PLAN & CODE STUDY
 (11X17) SCALE: 1" = 20'
 (22X34) SCALE: 1" = 10'

CODE/ZONING INFORMATION

TABLE 705.2 MINIMUM DISTANCE OF PROJECTION
 NO ROOF OVERHANG OR ANY PROJECTION BEYOND FIRE-RESISTANCE WALL

TABLE 705.5 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXT. WALLS
PORTABLE #1 | FSD = 10'-0" | VB CONSTRUCTION, E OCC
 0 HOUR FIRE-RESISTANCE
PORTABLE #2 | FDS = 5'-0" | VB CONSTRUCTION, E OCC
1 HOUR FIRE-RESISTANCE FROM BOTH SIDES
PORTABLE #3 & 4 | FDS = 10'-0" | VB CONSTRUCTION E OCC
 0 HOUR FIRE-RESISTANCE
EXISTING JH GYM W/ 12" CMU | FDS = 6'-11" | IIIB TYPE, E OCC
1 HOUR FIRE RESISTANCE
 EXISTING JH CLASS WING | FDS = 10'-0" | VB TYPE, E OCC
 0 HOUR FIRE-RESISTANCE PROVIDED

TABLE 705.8 MAX AREA OF EXTERIOR WALL OPNG
 5' <= FSD < 10' | UNPROTECTED, NON SPRINKLERED = MAX 10%
 5' <= FSD < 10' | UNPROTECTED, SPRINKLERED = MAX 25%
 *FSD = FIRE SEPARATION DISTANCE

705.11 PARAPETS
 NO PARAPET REQUIRES PER EXCEPTION 4
 1 HR FIRE EXTERIOR WALL TERMINATE AT THE UNDERSIDE OF THE ROOF SHEATHING
 ROOF FRAMING // TO THE WALL, NOT LESS THAN 1 HR FIRE RESISTANCE
 CONSTRUCTION FOR 10'-0", MEASURED FROM THE INTERIOR SIDE OF THE WALL
 NO ROOF OPENING WITHIN 5'-0" OF THE 1 HOUR FIRE RESISTANCE RATED EXTERIOR WALL
 THE ROOFING IS CLASS A ROOF COVERING (MORE THAN CLASS B)

TABLE 721.1(3), #21 1 HR FIRE RESISTANCE ROOF CONSTRUCTION
 SEE 2/A1.2 & NOTES

TABLE 721.1(2) #15-1.14 1 HR FIRE RESISTANCE WALL CONSTRUCTION
 SEE 2/A1.2 & NOTES

903.2.3 GROUP E, EXCEPTION 1
 NO FIRE-SPRINKLER REQUIRED;

PORTABLE SCHOOL CLASSROOMS WITH AN OCCUPANT LOAD OF 50 OR LESS
 CALCULATED IN ACCORDANCE WITH TABLE 1004.5
 -> PER TABLE 1004.5, EA CLASSROOM WILL HAVE 40 STUDENTS < 50 STUDENTS
 PROVIDED THAT THE AGGREGATE AREA OF ANY CLUSTER OF PORTABLE SCHOOL
 CLASSROOMS DOES NOT EXCEED 6,000 SF:
 -> (3) CLUSTER OF PORTABLE SCHOOLS = 5,376 SF < 6,000 SF
 AND CLUSTERS OF PORTABLE SCHOOL CLASSROOMS SHALL BE SEPARATED AS
 REQUIRED BY THE BUILDING CODE
 -> PROVIDE APPROPRIATE FIRE SEPARATION AND/OR FIRE-RESISTANCE WALL

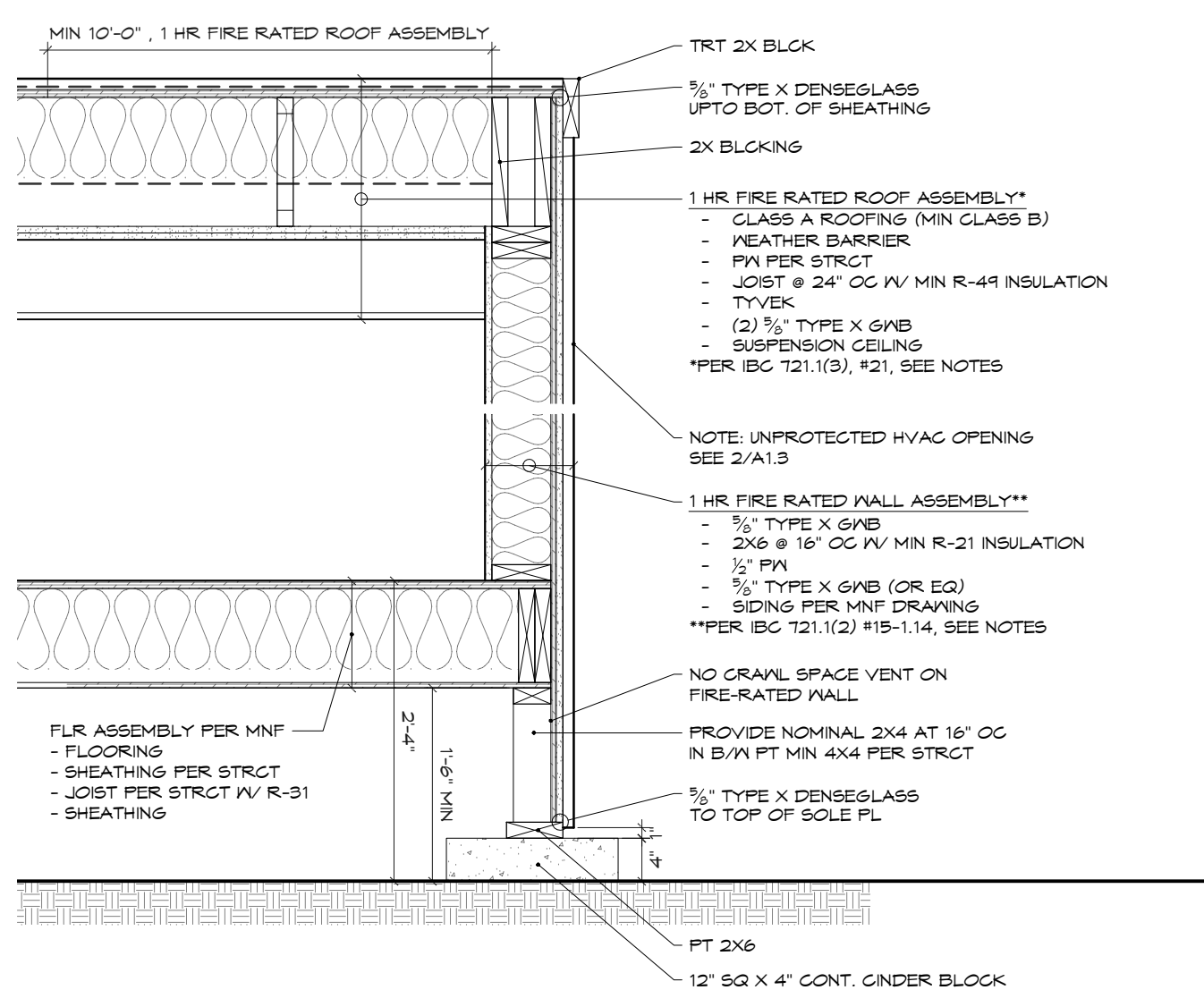
906 PORTABLE FIRE EXTINGUISHERS
 2A:10B.C REQUIRED

907 FIRE ALARM AND DETECTION SYSTEMS
 FIRE-ALARM SYSTEM TO BE CONNECTED TO EXISTING SCHOOL SYSTEM

TABLE 1004.5 MAX FLOOR AREA ALLOWANCE PER OCC
 EDUCATIONAL CLASSROOM AREA : 20 NET
 EA, CLASSROOM NET SF = 819 SF -> 40 STUDENTS *
 * HOWEVER, ALLOWABLE STUDENTS PER HEALTH DEPARTMENT CODE IS LESS DUE
 TO MECHANICAL AIR FLOW REQUIREMENT, PER HEALTH DEPARTMENT, MAX # OF
 STUDENTS ARE 26 PER CLASSROOM. HOWEVER, FOR THE PURPOSE OF THE
 BUILDING CODE ANALYSIS, WE WILL USE 42 STUDENTS.
 PLEASE REVIEW G0.1 FOR OCCUPANT LOAD CALCULATION

SECTION 1005 MEANS OF EGRESS SIZING
 1005.3.1 STAIRWAYS:
 OCC LOAD * 0.3 | 60 OCC * 0.3 = 18" -> PROVIDE 5'-0" WIDE
 1005.3.2 OTHER EGRESS
 OCC LAOD * 0.2 | 80 OCC * 0.2 = 16" -> PROVIDE 5'-0" WIDE
 TABLE 1006.2.1 SPACES WITH ONE EXIT
 PORTABLE CLASSROOM ONLY REQUIRES (1) EXIT
 OCC E | OCC LOAD: 40 (<49) | DISTANCE: 40'-7" (<75')

TABLE 2902.1 MIN NUMBER OF REQUIRED PLUMBING FIXTURES
 PLEASE REVIEW G0.1 FOR PLUMBING CALC

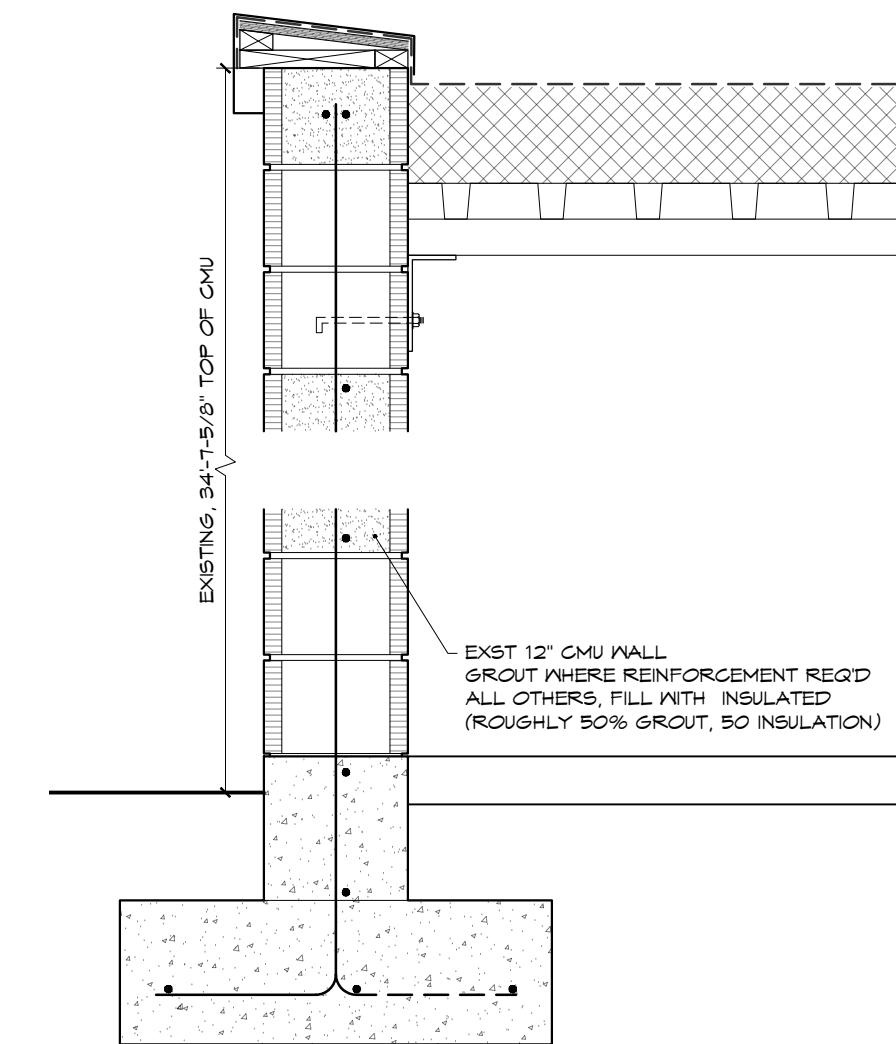


2 PORTABLE DETAIL - 1HR FIRE RESISTANCE
 (11X17) SCALE: 3/8" = 1'-0"
 (22X34) SCALE: 3/4" = 1'-0"

FIRE RATED ROOF & WALL NOTES:

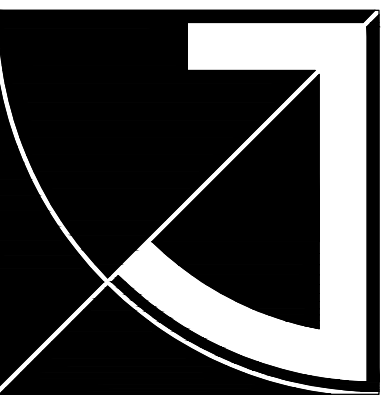
TABLE 721.1(3), #21 1 HR FIRE RESISTANCE ROOF CONSTRUCTION
 WOOD JOISTS SPACED 24" OC W/ 1/2" WD STRUCTURAL PANELS WITH EXTERIOR
 GLUE APPLIED AT RIGHT ANGLES TO TOP OF JOIST WITH 8d NAILS. THE WOOD
 STRUCTURAL PANEL THICKNESS SHALL BE NOT LESS THAN NOMINAL 1/2"
 BASE LAYER: 3/8" TYPE X GWB, APPLIED AT RIGHT ANGLES TO JOIST W/ 1-1/4" TYPE
 X OR TYPE W DRYWALL SCREWS, 24" OC
 FACE LAYER: 3/8" TYPE X GWB AT RIGHT ANGLES TO JOIST THROUGH BASE LAYER
 WITH 1-1/4" TYPE S OR TYPE W DRYWALL SCREWS 12" OC AT JOINTS AND
 INTERMEDIATE JOIST. FACE LAYER TYPE C DRYWALL SCREWS PLACED 2"
 BACK ON EITHER SIDE OF FACE LAYER END JOINTS, 12" OC.

TABLE 721.1(2) #15-1.14 1 HR FIRE RESISTANCE WALL CONSTRUCTION
 2X6 WOOD STUD AT 16" OC WITH DOUBLE TOP PLATES, SINGLE BOTTOM PLATE
 INTERIOR AND EXTERIOR SIDES COVERED WITH 3/8" TYPE X GYPSUM WALLBOARD,
 4" WIDE, APPLIED HORIZONTALLY OR VERTICALLY WITH VERTICAL JOINTS
 OVER STUDS, AND FASTENED WITH 2-1/4" TYPE S DRYWALL SCREWS, SPACED
 7" OC.



3 EXISTING JH GYM WALL SECTION
 (11X17) SCALE: 3/8" = 1'-0"
 (22X34) SCALE: 3/4" = 1'-0"

PAGE 1: SITE PLAN W/ NOTES (REV 02)
PAGE 2: JOSEPH JOHNSTON'S FOUNDATION PLAN FOR PE#22-PE#23
PAGE 3-4: YURIANTO YURIANTO'S FOUNDATION PLAN FOR MIDDLE SPAN BEAM (REV02)
PAGE 5: GENERAL CLASSROOM FOUNDATION PLAN
PAGE 6: YURIANTO'S EOR LETTER-ALT ANCHORAGE
PAGE 7: JOHNSTON'S EOR LETTER-ALT ANCHORAGE (REV 02)

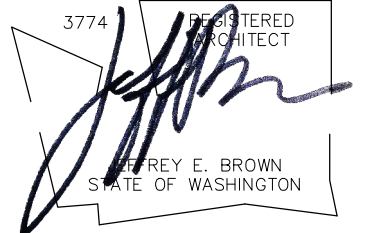


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PROJECT LEAD

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PROJECT NAME/ADDRESS

CASCADE CHRISTIAN SCHOOLS
ELEMENTARY SCHOOL
PORTABLE PLACEMENTS
 811 21ST STREET SE
 PUYALLUP, WA 98372
PRPF20250508

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

PROJECT NUMBER
 24001

DRAWING TYPE

PERMIT DOCUMENT

DATE	ISSUE	NO.
04.14.25	PREMIT	
05.23.25	REVISION-CITY	▲
06.10.25	REVISION-STATE	
06.27.25	REVISION-STATE	

SHEET TITLE

PARTIAL SITE & CODE STUDY

SHEET #

A1.2

STRUCTURAL NOTES

I. GENERAL:

- BUILDING DIMENSIONS FROM THE MODULAR BUILDING MANUFACTURERS MAY VARY AND ADJUSTMENTS MAY BE MADE IN THE FIELD.
- ANY VARIATION IN INSTALLATION OR MATERIALS OF THE FOUNDATION REQUIRES ENGINEER CONCURRENCE PRIOR TO PURCHASE AND INSTALLATION OF THE FOUNDATION MATERIALS..

2. DESIGN INFORMATION & LOADING:

- BUILDING CODE
IBC, 2021 EDITION & OSSC-2019
- BUILDING RISK CATEGORY II
- ROOF LIVE LOADS:
14 PSF-GROUND SNOW LOAD
25 PSF-ROOF DESIGN SNOW LOAD
20 PSF-ROOF DESIGN LIVE LOAD
- FLOOR LIVE LOAD: CLASSROOM
40 PSF UNIFORM
1,000# CONCENTRATED
- WIND CRITERION:
100 MPH, EXP B, KZT=1.0
- SEISMIC CRITERION: S_{ds}=0.633, I_e=1.0,
SEISMIC CATEGORY, D
- BUILDING IS ON ASPHALT & CONCRETE PAVEMENT.
REF: LAYOUT S

**FOR PE#22~PE#23
FOUNDATION PLAN**

3. ABS PADS :

- 18"x16"x1", MIN. ABS PADS ARE USED.
REF: LAYOUT S

4. MASONRY:

- 8x16 UNITS ASTM C-90, GRADE N
- UNITS MAY BE 8" &/OR 4" NOMINAL HEIGHT UNITS.
- SET SINGLE DRY-STACKED UNITS W/CORES VERTICAL & NO MORE THAN 36-INCHES HIGH, PER PLAN.
- SET DOUBLE ALTERNATING DRY-STACKED UNITS W/CORES VERTICAL & NO MORE THAN 67-INCHES HIGH, PER PLAN.
- IF HIGHER THAN 67-INCHES A SPECIAL STRUCTURAL REVIEW IS REQUIRED.

5. WOOD:

- ALL WOOD MEMBERS OF THE FOUNDATION SYSTEM SHALL BE SPF-STD OR BETTER, UNLESS NOTED OTHERWISE.
- ALL WOOD IN CONTACT WITH SOIL, ASPHALT, MASONRY, OR CONCRETE SHALL BE PRESSURE TREATED (P.T.), FOR EXPOSURE.
- ALL WOOD WITHIN 18-INCHES OF SUBGRADE TO BE TREATED FOR EXPOSURE AND INSECTS.
- CONNECTORS IN CONTACT WITH P.T. WOOD TO BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL CONNECTORS.

6. SPECIALTY ITEMS:

TRANSVERSE AND LONGITUDINAL ANCHORS TO BE ASPHALT ANCHOR- TIE DOWN ENGINEERING PRODUCT# 59367 OR EQUIVALENT MIN 1889 LB. SOIL ANCHOR MMA 30, 4430 DH 3/4" ROD, DdL. 4" DISC 30" ANCHOR

- COMPLETE FINAL ADJUSTMENT OF TIES TO BUILDING ONLY AFTER BUILDING IS FULLY BLOCKED AND LEVELED.
- INSTALL ALL SPECIALTY ITEMS PER THE MANUFACTURER'S RECOMMENDATIONS.

7. ACCESS:

- PROVIDE MINIMUM 18"x24" ACCESS TO THE UNDER FLOOR AREA.

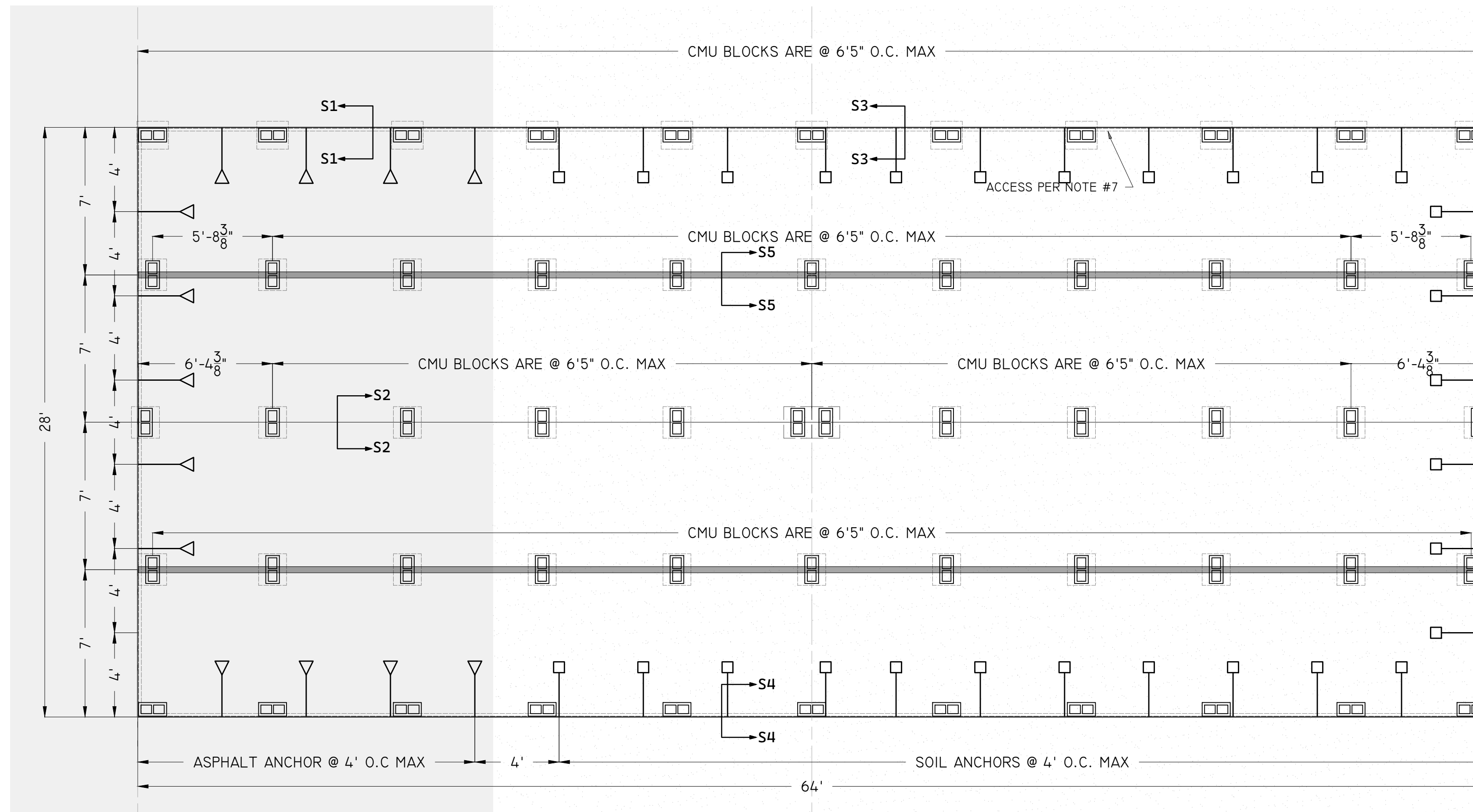
ANCHORS:
the number of asphalt vs soil anchors required to be determined onsite



FIGURE 1
ASPHALT ANCHOR
TIE DOWN ENGINEERING
PRODUCT# 59367 OR
EQUIVALENT MIN WLL 1889 LB.



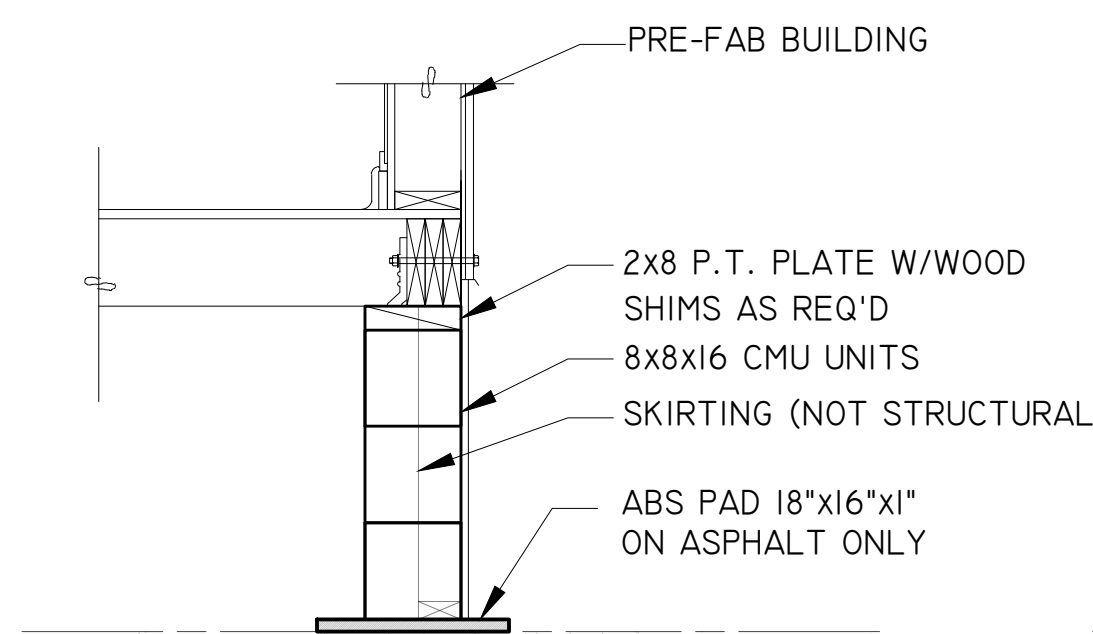
FIGURE 2
SOIL ANCHOR
TIE DOWN ENGINEERING
MMA 30, 4430 DH 3/4" ROD,
DDL. 4" DISC 30" ANCHOR



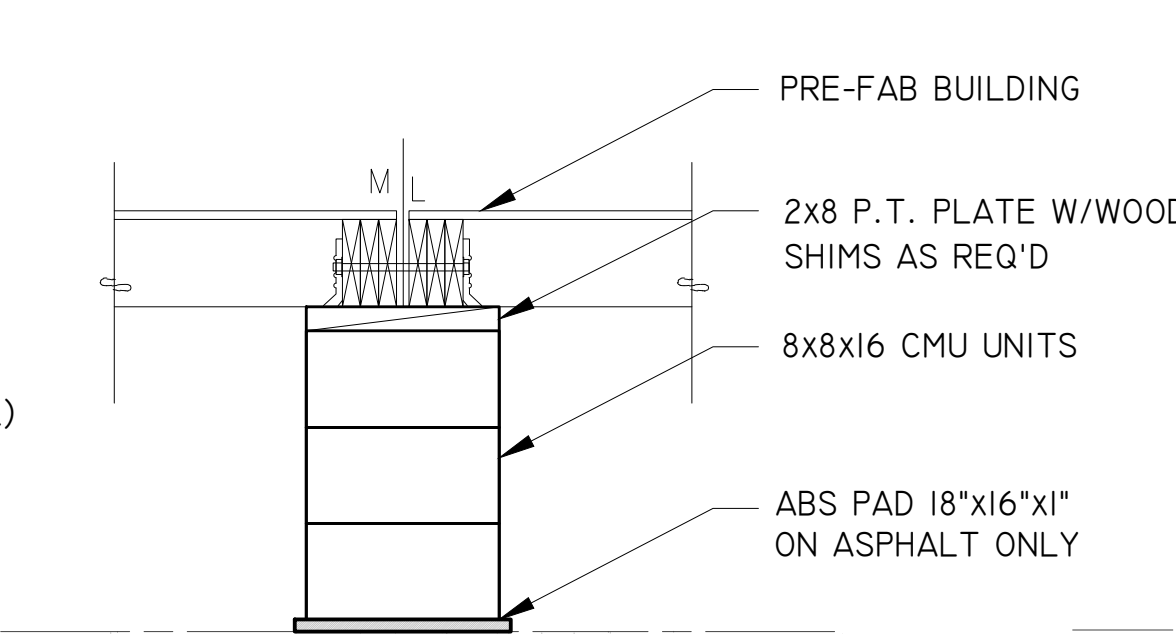
S 28X64 CLASSROOM - FOUNDATION PLAN
1/4" = 1'-0"

LEGEND

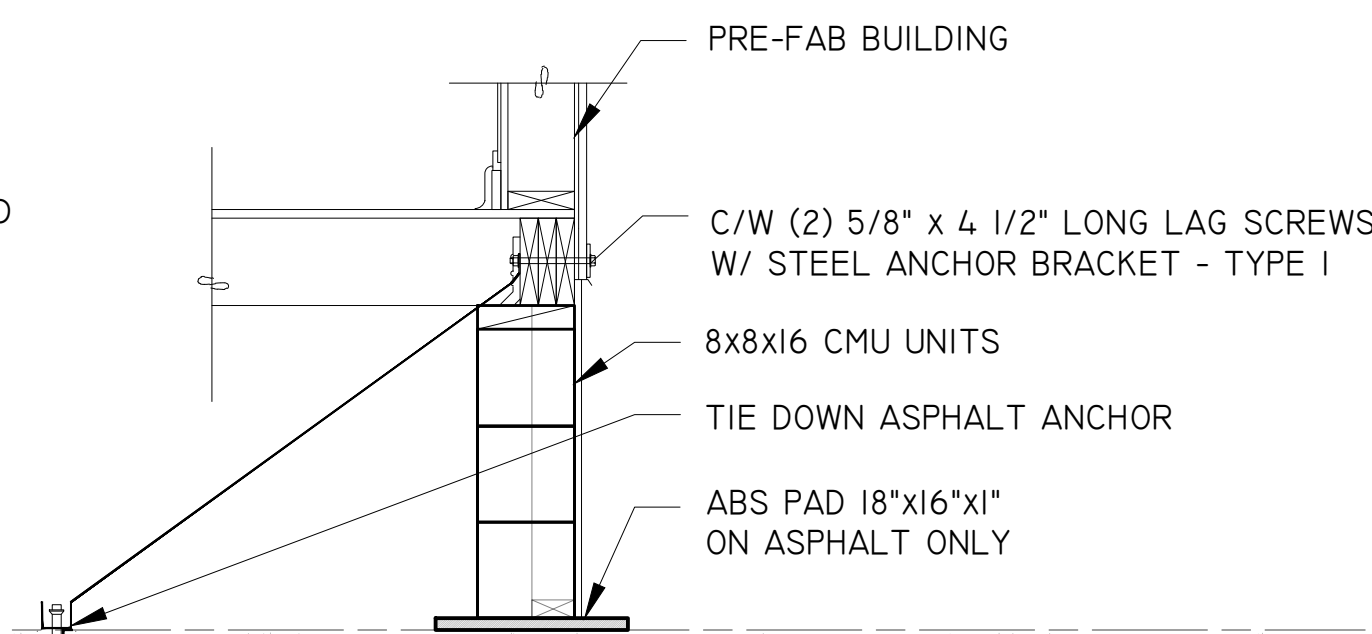
- ▶ ASPHALT ANCHOR
REF: FIGURE 1
- ◻ SOIL ANCHOR
REF: FIGURE 2



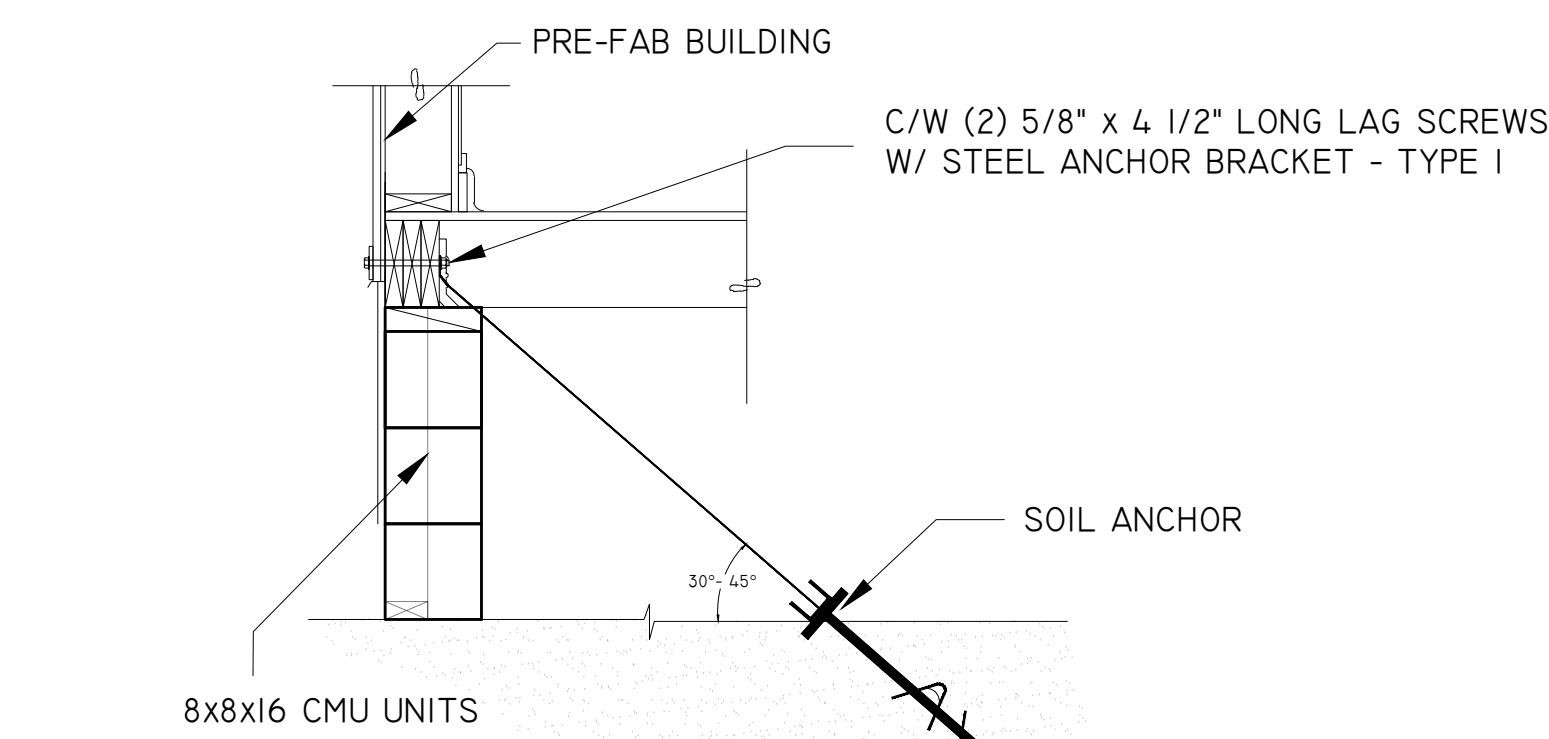
S1 PERIMETER SUPPORT
3/4" = 1'-0"



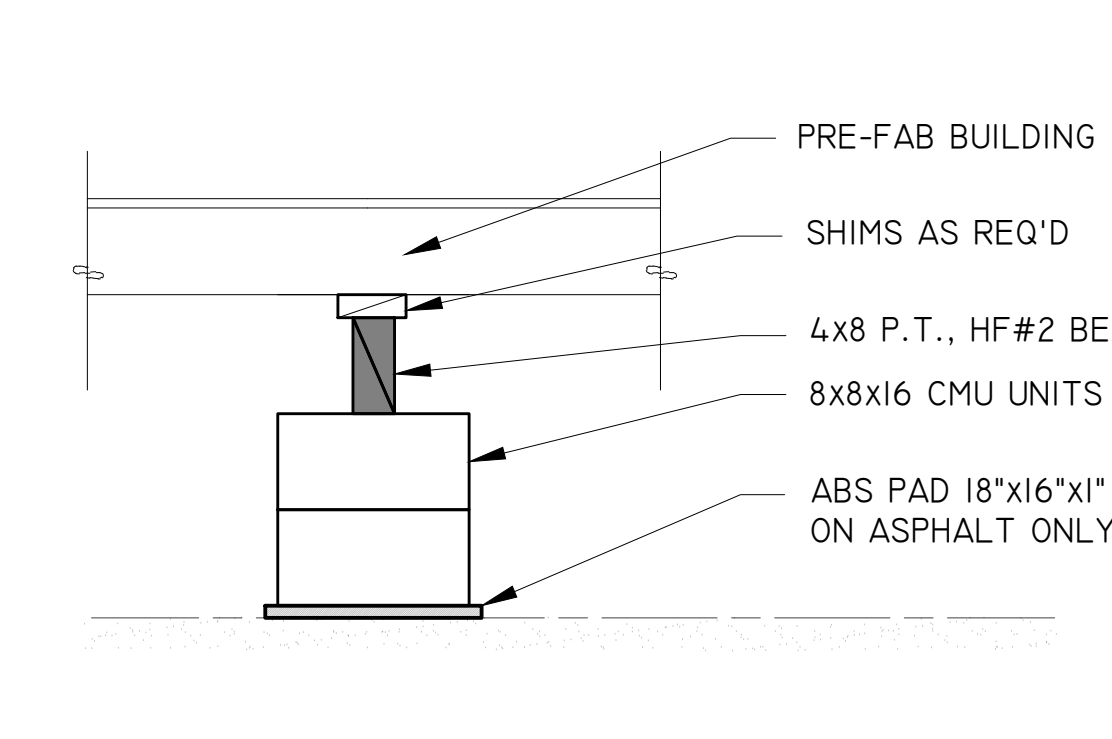
S2 MATELINE SUPPORT
3/4" = 1'-0"



S3 ASPHALT ANCHOR
3/4" = 1'-0"

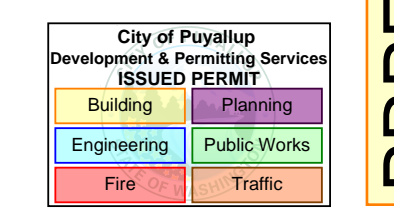


S4 SOIL ANCHOR
3/4" = 1'-0"

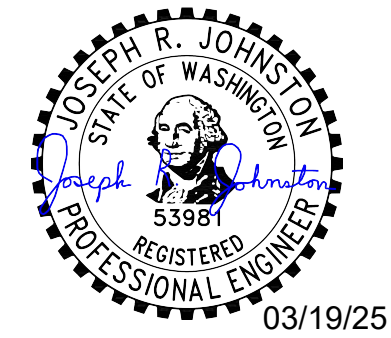


S5 MID- SPAN FLOOR SUPPORT
3/4" = 1'-0"

REVIEW A1.1 & A1.2 FOR FIRE-RATED WALL LOCATION. IF FIRE-RATED WALL, REVIEW 2/A1.2



STAMP



REV NOTES

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REV	DESCRIPTION	MM/DD/YY
0	IFC	03/18/25
ORIGINATOR: AD	CHECKER: SJ	APPROVER: JJ

PLANT ADDRESS
1106 NORTH TEMPLE DRIVE DIBOLL TX 75941 PH: (936) 829.6087

PROJECT
CASCADE CHRISTIAN SCHOOL

PROJECT NO. / PROGRAM NO/
2024-SR-021-RI

DRAWING TITLE
FOUNDATION DETAILS

SHEET NO.
F1

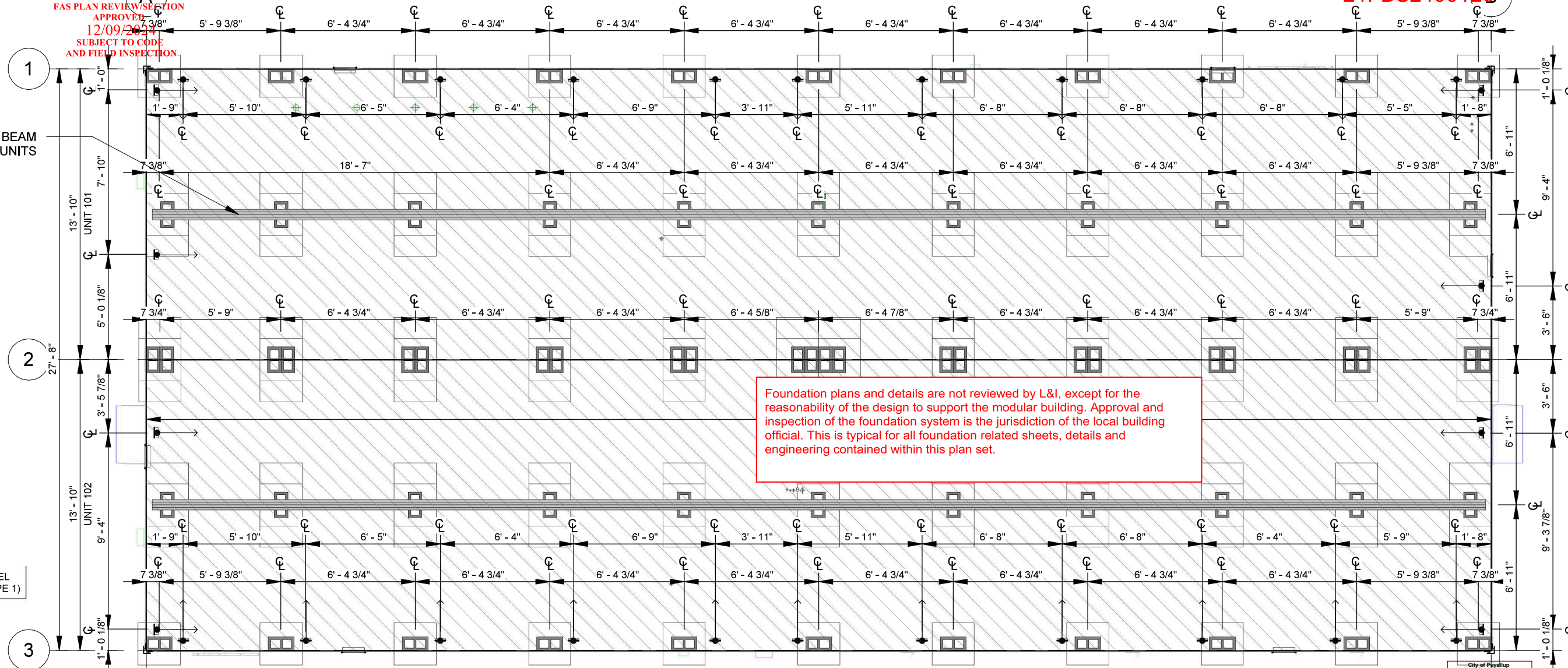
PRPF20250508

STATE OF WASHINGTON
DEPT. OF LABOR AND
INDUSTRIE
FAS PLAN REVIEW SECTION
APPROVED
12/09/2024
SUBJECT TO CODE
AND FIELD INSPECTION



By Yuri at 7:30:26 PM, 7/24/2024

4-2x8 CONTINUOUS BEAM
@ CENTRE OF UNITS



Foundation plans and details are not reviewed by L&I, except for the reasonability of the design to support the modular building. Approval and inspection of the foundation system is the jurisdiction of the local building official. This is typical for all foundation related sheets, details and engineering contained within this plan set.

PLANT INSTALLED STEEL ANCHOR BRACKET (TYPE 1)

1 STRUCTURAL FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

STRUCTURAL NOTES

- 1. GENERAL:
1.1. BUILDING DIMENSIONS FROM THE MODULAR BUILDING MANUFACTURERS MAY VARY AND INSIGNIFICANT ADJUSTMENTS MAY BE MADE IN THE FIELD.
1.2. ANY VARIATION IN INSTALLATION OR MATERIALS OF THE FOUNDATION REQUIRES ENGINEER CONCURRENCE PRIOR TO PURCHASE AND INSTALLATION OF THE FOUNDATION MATERIALS.
1.3. A GEOTECHNICAL REPORT WAS NOT PROVIDED FOR THIS DESIGN. IBC MINIMUM VALUES FOR SOIL BEARING WAS USED. VERIFY BEARING CAPACITY WITH LOCAL BUILDING OFFICIAL PRIOR TO INSTALLATION. OWNER IS RESPONSIBLE FOR PROVIDING A STABLE, LEVEL AND SMOOTH SUBGRADE.
2. DESIGN INFORMATION & LOADING:
2.1. BUILDING CODE
2.1.1. 2021 WASHINGTON STATE BUILDING CODE (2021 IBC, AMENDED) & OSSC-2019
2.1.2. BUILDING RISK CATEGORY II
2.2. ROOF LCHE LOADS:
2.2.1. 45 PSF-GROUND SNOW LOAD
2.2.2. 45 PSF-ROOF DESIGN SNOW LOAD
2.2.3. 20 PSF-ROOF DESIGN LCHE LOAD
2.3. FLOOR LCHE LOAD: CLASSROOM
2.3.1. 125 PSF UNIFORM
2.3.2. 1,000# CONCENTRATED
2.4. WIND CRITERION:
2.4.1. Vult=130 MPH, Vasd=101 MPH, EXP C, Kzt=1.0
2.5. SEISMIC CRITERION: Sds=1.04, S1=0.61, Ie=1.0, SEISMIC CATEGORY, D
2.6. ASSUMED SOIL BEARING: 2,000 PSF, ASSUMED SITE SOIL CLASS D-DEFAULT

3. CONCRETE: (24"x24"x4", MIN. PRECAST BEARING PADS)

- 3.1. DESIGN COMP. STRENGTH 2,500 PSI
3.2. REINF. YIELD 60 KSI

4. MASONRY:

- 4.1. 8x16 UNITS ASTM C-90, GRADE N
4.2. UNITS MAY BE 8" &/OR 4" NOMINAL HEIGHT UNITS.
4.3. SET SINGLE DRY-STACKED UNITS W/CORES VERTICAL & NO MORE THAN 24-INCHES HIGH, PER PLAN.
4.4. SET DOUBLE ALTERNATING DRY-STACKED UNITS W/CORES VERTICAL & NO MORE THAN 48-INCHES HIGH, PER PLAN.
4.5. SET DOUBLE ALTERNATING DRY-STACKED UNITS W/CORES VERTICAL, CELLS GROUTED TO WITHIN (3) UNITS FROM TOP, NO MORE THAN 72-INCHES HIGH, PER PLAN. IF HIGHER THAN 72-INCHES A SPECIAL STRUCTURAL REVIEW IS REQUIRED.

5. WOOD:

- 5.1. ALL WOOD MEMBERS OF THE FOUNDATION SYSTEM SHALL BE SPF-STD OR BETTER, UNLESS NOTED OTHERWISE.
5.2. ALL WOOD IN CONTACT WITH SOIL, ASPHALT, MASONRY, OR CONCRETE SHALL BE PRESSURE TREATED (P.T.), FOR EXPOSURE.
5.3. ALL WOOD WITHIN 6-INCHES OF SUBGRADE TO BE TREATED FOR EXPOSURE AND INSECTS.
5.4. CONNECTORS IN CONTACT WITH P.T. WOOD TO BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL CONNECTORS.
5.5. WOOD BEARING PADS MAY BE SUBSTITUTED FOR 24x24 CONCRETE PADS ONE FOR ONE AND SHALL BE P.T. 2x12-24" LONG, MIN.

6. SPECIALTY ITEMS:

- 6.1. METAL PIERS TO BE CAPABLE OF SUPPORTING 6,000#
6.2. ABS PADS MAY BE SUBSTITUTED FOR 24"x24" CONCRETE PADS ONE FOR ONE AND SHALL BE "BLACK PAD" OR EQUIVALENT, 24"x24", MIN.
6.4. TRANSVERSE & LONGITUDINAL SOIL ANCHORS TO BE MINUTEMAN ANCHORS, MARK 'MMA-35' MODEL '36-XDH', X-DRCHE ANCHORS OR EQUIVALENT W/ A MIN. ALLOWABLE DESIGN LOAD OF 1,800# IN ASPHALT.
6.5. UPLIFT SOIL ANCHORS TO BE MINUTEMAN ANCHORS, MARK 'MMA-92', MODEL '4430 EZDH 3 4' OR 'GW-2-NC1' AUGER STYLE SOIL ANCHORS W/STABILIZER HEAD OR EQUIVALENT W/ A MIN. ALLOWABLE DESIGN LOAD OF 3,150#. PRE-DRILL ASPHALT AND BASE PRIOR TO INSTALLATION. REFILL DRILLED HOLE.
6.6. COMPLETE FINAL ADJUSTMENT OF TIES TO BUILDING ONLY AFTER BUILDING IS FULLY BLOCKED AND LEVELED.
6.7. INSTALL ALL SPECIALTY ITEMS PER THE MANUFACTURER'S RECOMMENDATIONS.

7. VENTING:

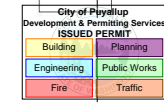
- 7.1. IF CRAWLSPACE IS ENCLOSED, PROVIDE UNDER FLOOR VENTILATION AT 1 NET SF OF VENTILATION PER 150 SF OF FLOOR AREA.
7.2. IF A CLASS 1 VAPOR RETARDER IS INSTALLED THE RATIO MAY BE INCREASED TO 11500.

8. ACCESS:

- 8.1. PROVIDE MINIMUM 18"x24" ACCESS TO THE UNDER FLOOR AREA.
8.2. PROVIDE 18" MIN. CLEARANCE FROM SOIL TO UNDERSIDE OF ANY UNTREATED WOOD MEMBER.
8.3. PROVIDE 12" MIN. CLEARANCE UNDER FROM SOIL TO UNDERSIDE OF ALL BUILDING MEMBERS.

9. SITE CONDITIONS:

- 9.1. FOUNDATION SUBGRADE TO BE 2-INCH MINIMUM ASPHALT PAVEMENT OVER A MINIMUM OF 4-INCH THICK COMPACTED ROAD-MIX GRAVEL PAD OVER UNDISTURBED NATCHE SUITABLE STABLE SOILS OR STRUCTURAL FILL.



PRPF20250508



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FOR PERMIT

RESTROOM UNIT

Table with 5 columns: REV., DATE, DESCRIPTION, BY, CHK/APR. Row 1: A, 2024-06-07, ISSUED FOR STATE APPROVAL, CB, [blank]

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: FOUNDATION PLAN

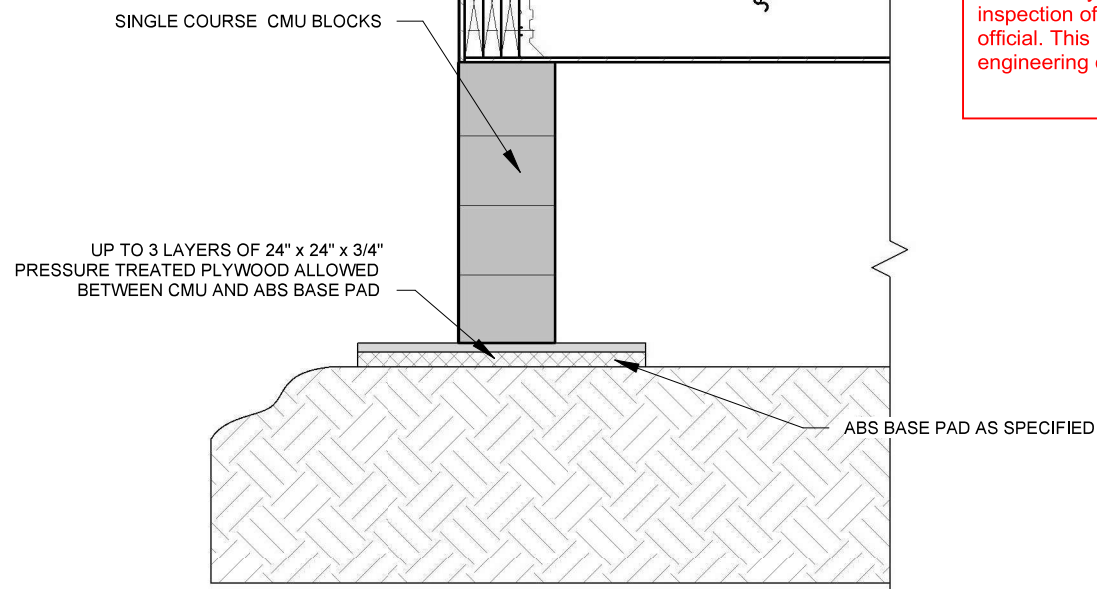
PROJECT NO: 1107994 Exp. 12/09/2025 DRAWING NO: SC100 REV. # A

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

STATE OF WASHINGTON
DEPT. OF LABOR AND
INDUSTRIES
EAS/PLAN REVIEW/SECTION
APPROVED
12/09/2024
SUBJECT TO CODE
AND FIELD INSPECTION

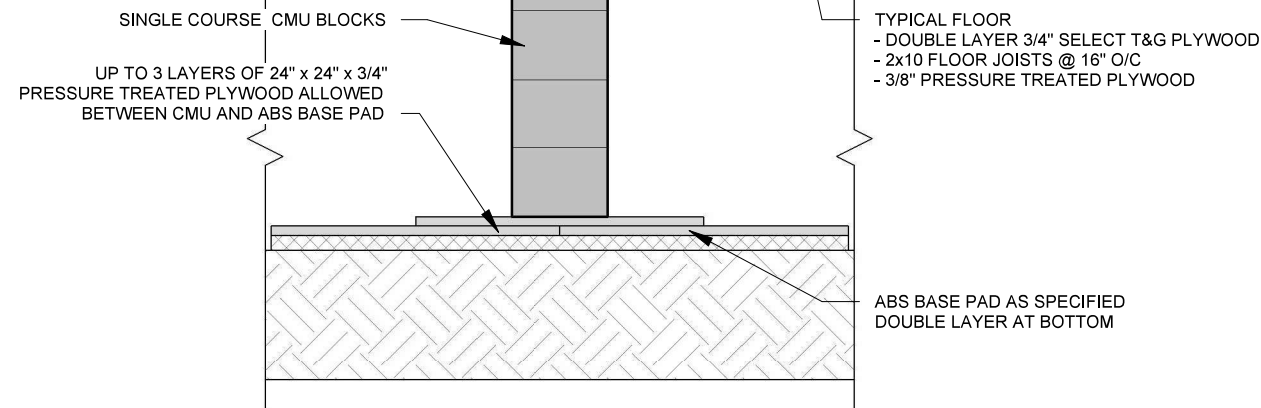
TYPICAL FLOOR
- DOUBLE LAYER 3/4" SELECT T&G PLYWOOD
- 2x10 FLOOR JOISTS @ 16" O/C
- 3/8" PRESSURE TREATED PLYWOOD

Foundation plans and details are not reviewed by L&I, except for the reasonability of the design to support the modular building. Approval and inspection of the foundation system is the jurisdiction of the local building official. This is typical for all foundation related sheets, details and engineering contained within this plan set.



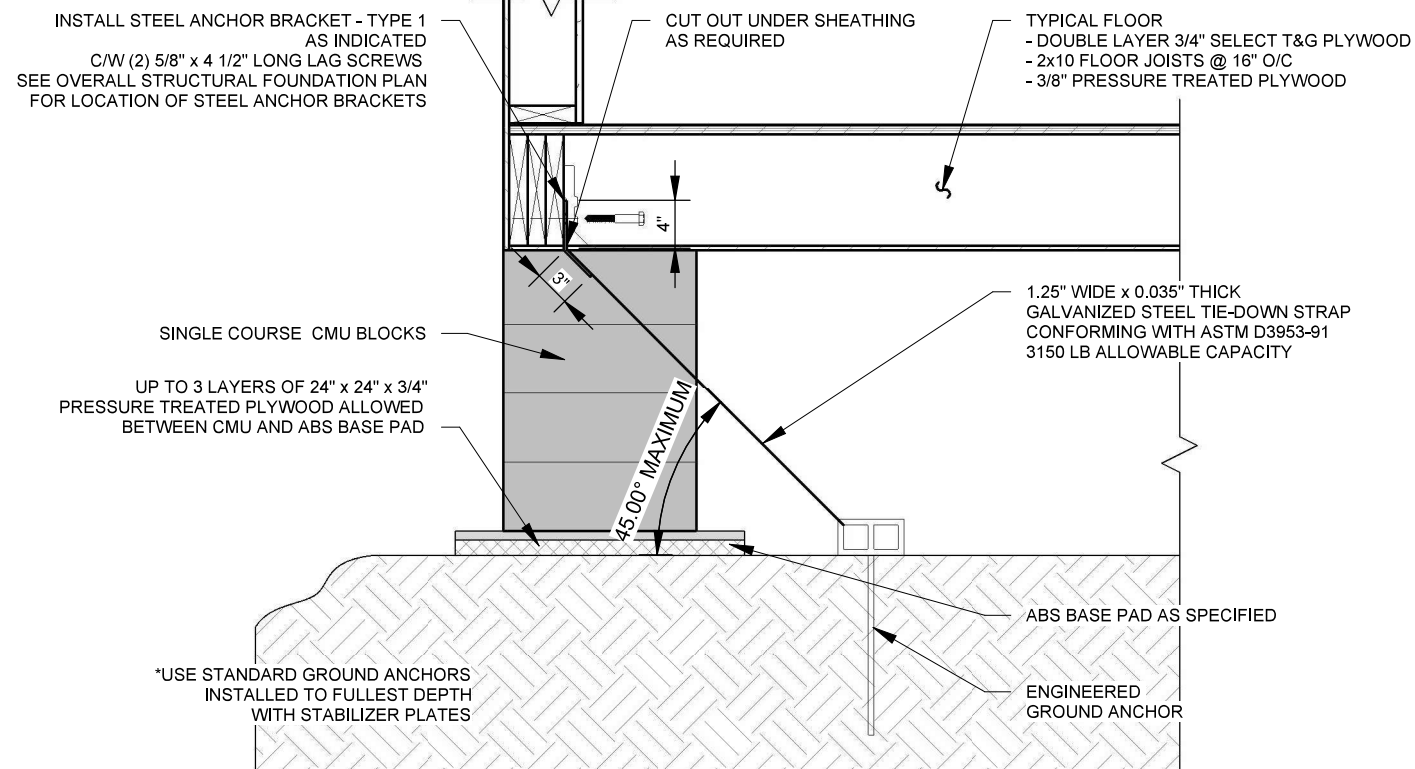
1 FOUNDATION PERIMETER DETAIL

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



2 FOUNDATION MATING LINE DETAIL

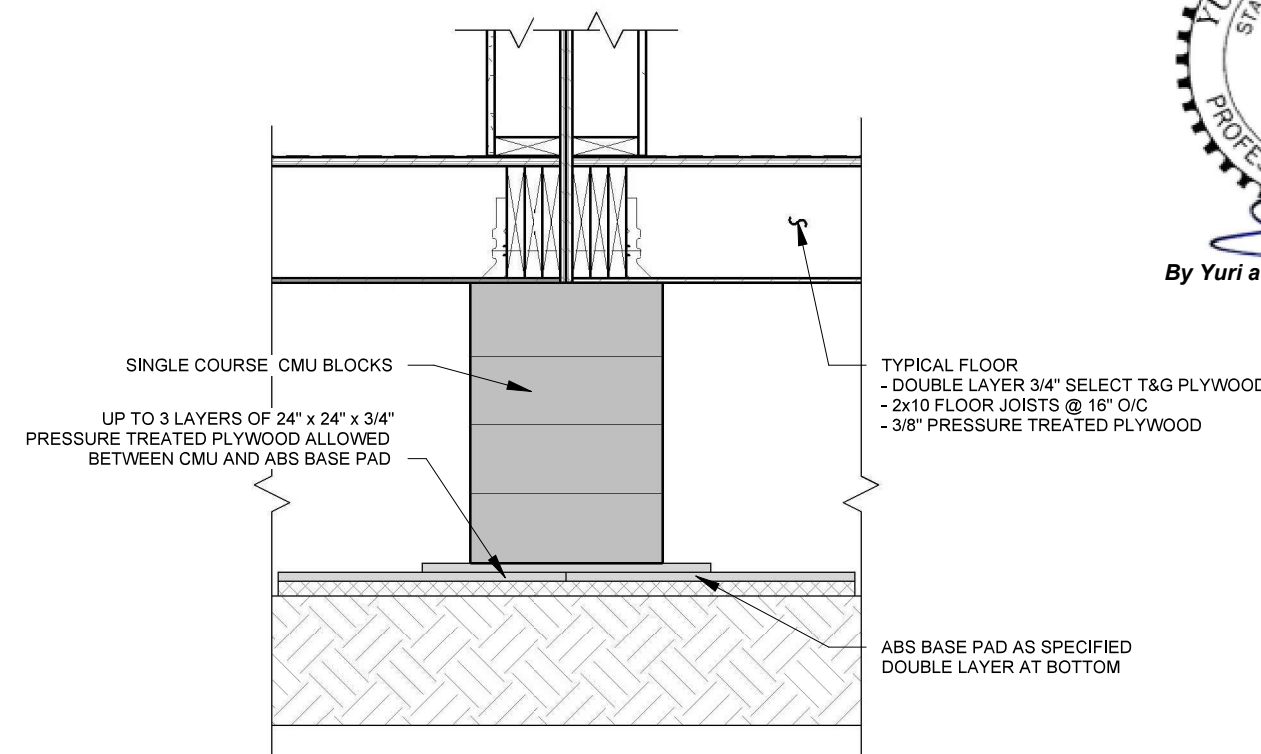
SCALE: 3/4" = 1'-0"



3 FOUNDATION SOIL ANCHOR

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

Use Standard Earth Ground Anchors Installed To Fullest Depth With Stabilizer Plates. Total (9) Tie-Downs At Each Structura Long Side And (2) Tie-Downs Per Short Side.



4 FOUNDATION COLUMN SUPPORT DETAIL

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



By Yuri at 7:30:29 PM, 7/24/2024



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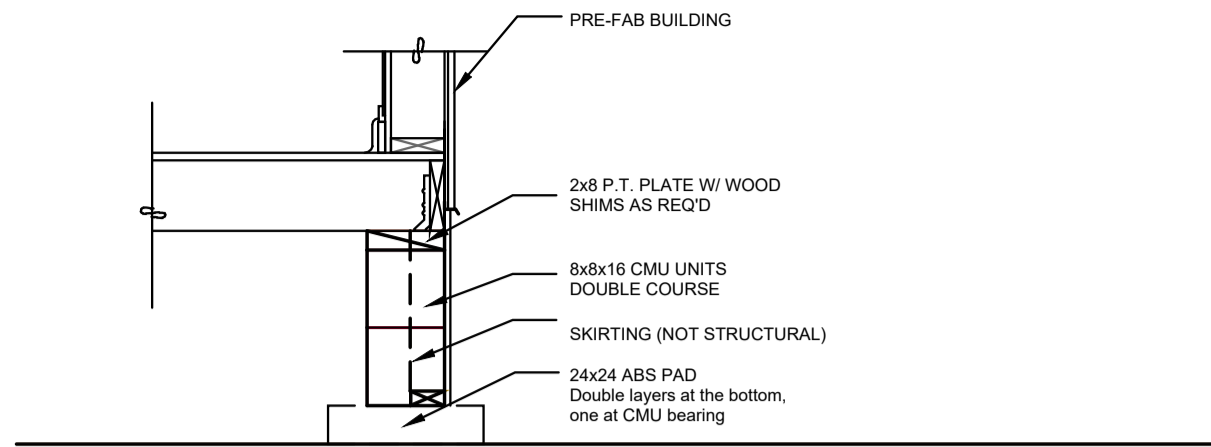
11x17 SHEET - DO NOT PRINT TO OTHER SCALE

FOR PERMIT

RESTROOM UNIT

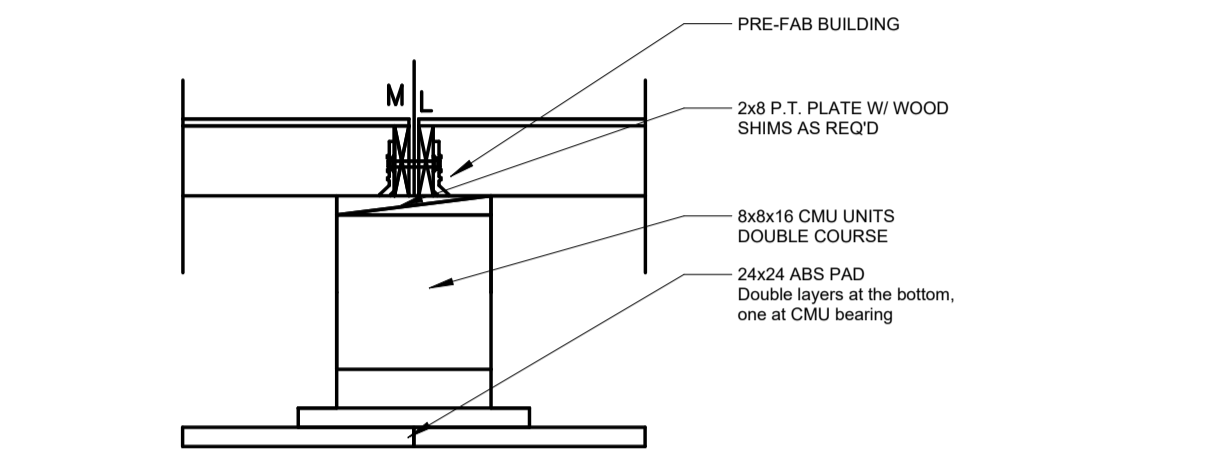
REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2024-06-07	ISSUED FOR STATE APPROVAL	CB	

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH	DRAWING TITLE:	FOUNDATION DETAILS
CLIENT:	CASCADE CHRISTIAN SCHOOL	PROJECT NO:	1107994
		DRAWING NO:	SC200
		Exp. 12/09/2025	REV. # A



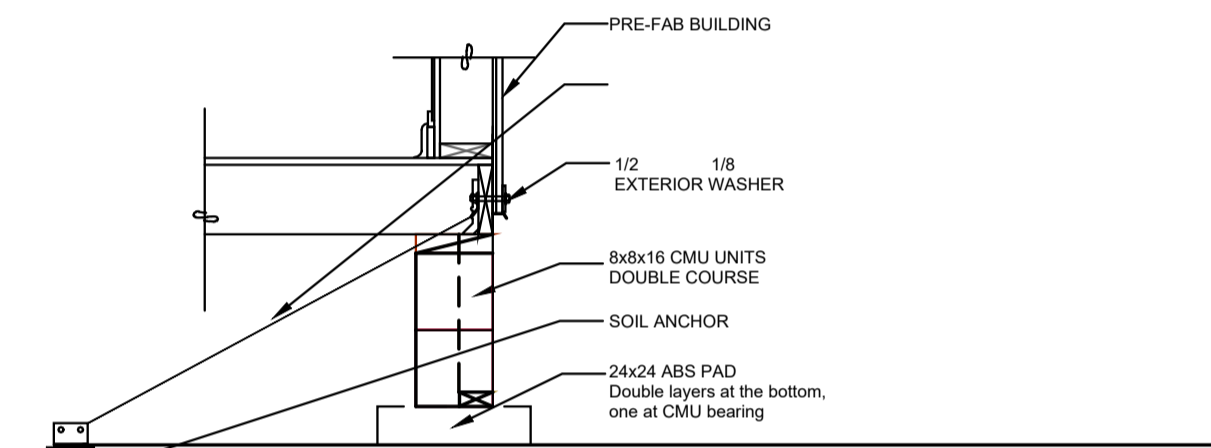
2 PERIMETER SUPPORT

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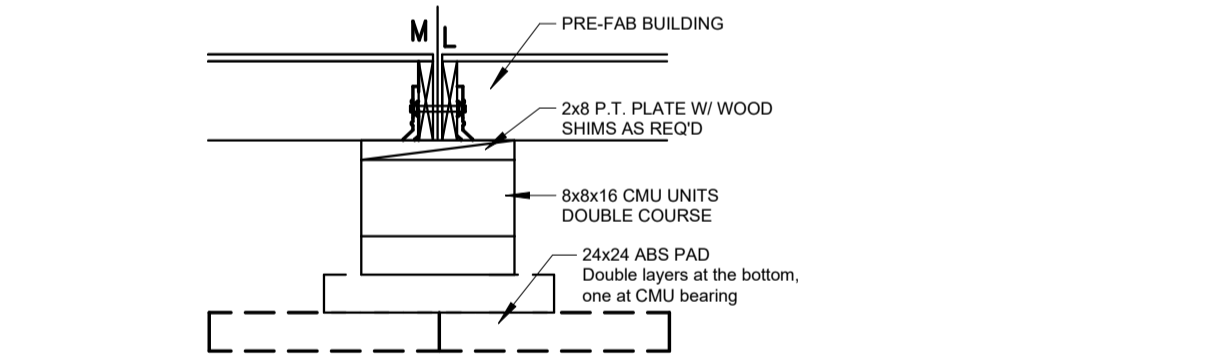
3 MATELINE SUPPORT

1:20



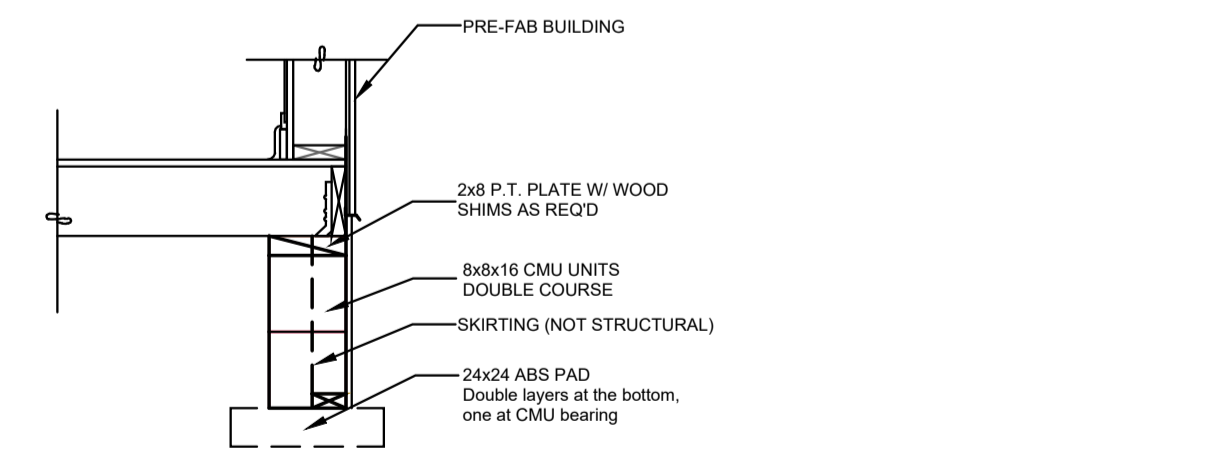
4 SOIL ANCHOR

1:20



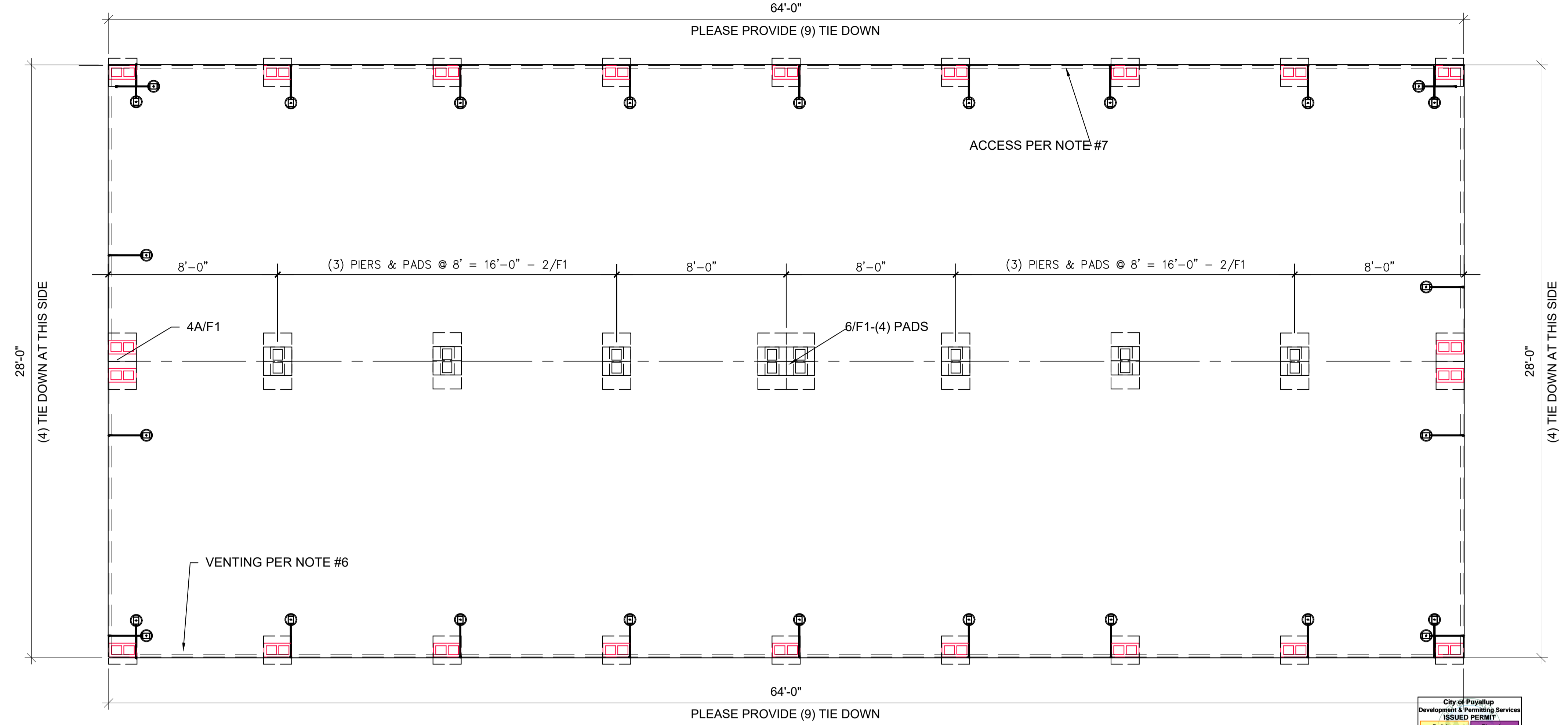
5 INTERIOR COLUMN SUPPORT

1:20



6 EXTERIOR MATELINE SUPPORT

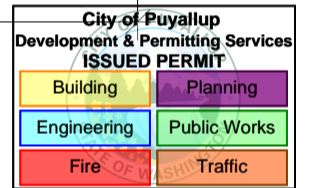
1:20



1 FOUNDATION PLAN

1:40

GENERAL CLASSROOM FOUNDATION PLAN



PRPF20250508

STRUCTURAL NOTES

- 1. GENERAL: 1.1. BUILDING DIMENSIONS FROM THE MODULAR BUILDING MANUFACTURERS MAY VARY AND INSIGNIFICANT ADJUSTMENTS MAY BE MADE IN THE FIELD. 1.2. ANY VARIATION IN INSTALLATION OR MATERIALS OF THE FOUNDATION REQUIRES ENGINEER CONCURRENCE PRIOR TO PURCHASE AND INSTALLATION OF THE FOUNDATION MATERIALS. 1.3. A GEOTECHNICAL REPORT WAS NOT PROVIDED FOR THIS DESIGN. IBC MINIMUM VALUES FOR SOIL BEARING WAS USED. VERIFY BEARING CAPACITY WITH LOCAL BUILDING OFFICIAL PRIOR TO INSTALLATION. OWNER IS RESPONSIBLE FOR PROVIDING A STABLE, LEVEL AND SMOOTH SUBGRADE. 2. DESIGN INFORMATION & LOADING: 2.1. BUILDING CODE: 2.1.1. IBC, 2018 EDITION & OSSC-2019 2.1.2. BUILDING RISK CATEGORY II 2.2. ROOF LIVE LOADS: 2.2.1. 45 PSF-GROUND SNOW LOAD 2.2.2. 45 PSF-ROOF DESIGN SNOW LOAD 2.2.3. 20 PSF-ROOF DESIGN LIVE LOAD 2.3. FLOOR LIVE LOAD: CLASSROOM 2.3.1. 40 PSF UNIFORM 2.3.2. 1,000# CONCENTRATED 2.4. WIND CRITERION: 2.4.1. Vult=130 MPH, Vasd=101 MPH, EXP C, Kzt=1.0 2.5. SEISMIC CRITERION: Sds=1.398, S1=0.486, Ie=1.0, SEISMIC CATEGORY, D 2.6. ASSUMED SOIL BEARING: 2,000 PSF, ASSUMED SITE SOIL CLASS D-DEFACUT 3. CONCRETE: (16"x16"x4", MIN. PRECAST BEARING PADS) 3.1. DESIGN COMP. STRENGTH 2,500 PSI 3.2. REINF. YIELD 60 KSI 4. MASONRY: 4.1. 8x16 UNITS ASTM C-90, GRADE N 4.2. UNITS MAY BE 8" &/OR 4" NOMINAL HEIGHT UNITS. 4.3. SET SINGLE DRY-STACKED UNITS W/CORES VERTICAL & NO MORE THAN 24-INCHES HIGH, PER PLAN. 4.4. SET DOUBLE ALTERNATING DRY-STACKED UNITS W/CORES VERTICAL & NO MORE THAN 48-INCHES HIGH, PER PLAN. 4.5. SET DOUBLE ALTERNATING DRY-STACKED UNITS W/CORES VERTICAL. CELLS GROUTED TO WITHIN (3) UNITS FROM TOP. NO MORE THAN 72-INCHES HIGH, PER PLAN. IF HIGHER THAN 72-INCHES A SPECIAL STRUCTURAL REVIEW IS REQUIRED. 5. WOOD: 5.1. ALL WOOD MEMBERS OF THE FOUNDATION SYSTEM SHALL BE SPF-STD OR BETTER, UNLESS NOTED OTHERWISE. 5.2. ALL WOOD IN CONTACT WITH SOIL, ASPHALT, MASONRY, OR CONCRETE SHALL BE PRESSURE TREATED (P.T.), FOR EXPOSURE. 5.3. ALL WOOD WITHIN 6-INCHES OF SUBGRADE TO BE TREATED FOR EXPOSURE AND INSECTS. 5.4. CONNECTORS IN CONTACT WITH P.T. WOOD TO BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL CONNECTORS. 5.5. WOOD BEARING PADS MAY BE SUBSTITUTED FOR 24x24 CONCRETE PADS ONE FOR ONE AND SHALL BE P.T. 2x12-24" LONG, MIN. 6. SPECIALTY ITEMS: 6.1. METAL PIERS TO BE CAPABLE OF SUPPORTING 6,000# 6.2. ABS PADS MAY BE SUBSTITUTED FOR 16x16 CONCRETE PADS ONE FOR ONE AND SHALL BE "BLACK PAD" OR EQUIVALENT. 16"x16", MIN. 6.4. TRANSVERSE & LONGITUDINAL SOIL ANCHORS TO BE MINUTEMAN ANCHORS, MARK 'MMA-35' MODEL '36-XDH', X-DRIVE ANCHORS OR EQUIVALENT W/ A MIN. ALLOWABLE DESIGN LOAD OF 1,800# IN ASPHALT. 6.5. UPLIFT SOIL ANCHORS TO BE MINUTEMAN ANCHORS, MARK 'MMA-92', MODEL '4430 EZDH 3 4' OR 'GW-2 -NC1' AUGER STYLE SOIL ANCHORS W/STABILIZER HEAD OR EQUIVALENT W/ A MIN. ALLOWABLE DESIGN LOAD OF 3,150#. PRE-DRILL ASPHALT AND BASE PRIOR TO INSTALLATION. REFILL DRILLED HOLE. 6.6. COMPLETE FINAL ADJUSTMENT OF TIES TO BUILDING ONLY AFTER BUILDING IS FULLY BLOCKED AND LEVELLED. 6.7. INSTALL ALL SPECIALTY ITEMS PER THE MANUFACTURER'S RECOMMENDATIONS. 7. VENTING: 7.1. IF CRAWLSPACE IS ENCLOSED, PROVIDE UNDER FLOOR VENTILATION AT 1 NET SF OF VENTILATION PER 150 SF OF FLOOR AREA. 7.2. IF A CLASS 1 VAPOR RETARDER IS INSTALLED THE RATIO MAY BE INCREASED TO 11500. 8. ACCESS: 8.1. PROVIDE MINIMUM 18"x24" ACCESS TO THE UNDER FLOOR AREA. 8.2. PROVIDE 18" MIN. CLEARANCE FROM SOIL TO UNDERSIDE OF ANY UNTREATED WOOD MEMBER. 8.3. PROVIDE 12" MIN. CLEARANCE UNDER FROM SOIL TO UNDERSIDE OF ALL BUILDING MEMBERS. 9. SITE CONDITIONS: 9.1. FOUNDATION SUBGRADE TO BE 2-INCH MINIMUM ASPHALT PAVEMENT OVER A MINIMUM OF 4-INCH THICK COMPACTED ROAD-MIX GRAVEL PAD OVER UNDISTURBED NATIVE SUITABLE STABLE SOILS OR STRUCTURAL FILL.



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FOR PERMIT



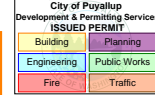
By Yuri at 12:06:36 AM, 5/15/2024

Table with 5 columns: REV, DATE, DESCRIPTION, GM BY, CHK/APR. Row 1: 1, 2024-04-17, ISSUED FOR PERMIT, GM, CHK/APR

Table with 4 columns: PROJECT, CLIENT, DRAWING TITLE, PROJECT NO, DRAWING NO, REV. #. Values: 28x64 CLASSROOM, ATCO STRUCTURES AND LOGISTICS, FOUNDATION / CRAWLSPACE PLAN, 1106442-A, SC100, 1

STRUCTURAL CONSULTANT
Yurianto Yurianto, S.E., P.E., M.Sc.
5760 Legacy Dr. Ste B3-333. Plano, TX 75024
P: (972) 896-5373. E: yurianto@modularconsultant.com

PRPF20250508



Date: July 18, 2025

Project: **Cascade Christian Schools Classroom/Washcar/ATCO stock classrooms at Puyallup, WA**

Subject: Certified Letter for X-Plate Anchor

To Whom it may concern,

The purpose of this letter is to certify that the modular tie-down earth auger anchor may be substitute with X-Plate anchor for difficult class 2 soil condition. The number of anchors, however, shall be increased by 50% at each tie-down direction.



X-Plate Anchor
Stabilized Cross Drive
Anchor For difficult
class 2 Soils. 2200 lb.
working load at 50 degrees
max angle.

Black Paint Part #59118

If you have any questions regarding this, please let me know.

Sincerely,

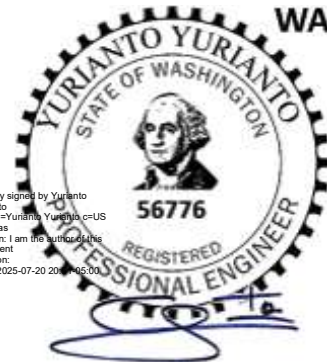
Yurianto Yurianto, S.E.*, P.E., M.Sc.

Structural Consultant.

* S.E. in the State of IL, NV, HI, AZ, OK, MA, GA

Yurianto
Yurianto

Digitally signed by Yurianto
Yurianto
DN: cn=Yurianto Yurianto, c=US
o=Texas
Reason: I am the author of the
document
Location:
Date: 2025-07-20 20:50:58

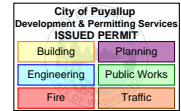


By Yuri at 8:50:58 PM, 7/20/2025

Calculations required to be provided by
the Permittee on site for all Inspections

August 8, 2025

PRPF20250508



Shan Jayachandran
 ATCO Structures
shan.jayachandran@atco.com

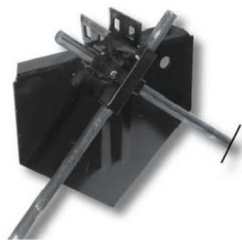
Calculations required to be provided by the Permittee on site for all Inspections

RE: substitute soil anchor with X Plate anchor

Site Name:	Cascade Christian School
Site Address:	811 21 st Street SE, Puyallup, WA 98372
Building Code:	IBC, 2021 EDITION & OSSC-2019
Result:	Passing

Dear Mr. Jayachandran:

The purpose of this letter is to certify that the modular tie-down earth auger anchor may be substitute with X-Plate anchor for difficult class 2 soil condition. The lateral capacity of previously proposed Earth auger is 1889 lb. The lateral capacity of the newly proposed X-Plate Anchor is 2200 lbs. Therefore, using the X-Plate anchors, the capacity has increased by 311 lbs. per auger.



X-Plate Anchor
 Stabilized Cross Drive
 Anchor For difficult
 class 2 Soils. 2200 lb.
 working load at 50 degrees
 max angle.
Black Paint Part #59118

The contractor is responsible for the means and methods of construction and shall notify Airosmith Engineering LLC immediately if any field conditions differ from those listed above. Should there be any questions, please do not hesitate to contact us at (518) 690-0790.

Sincerely,

Joseph R. Johnston, P.E.
 VP, Engineering

