City of Puyallup
Building
REVIEWED
FOR
COMPLIANCE
SKinnear
08/08/2025
8:16:10 AM

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

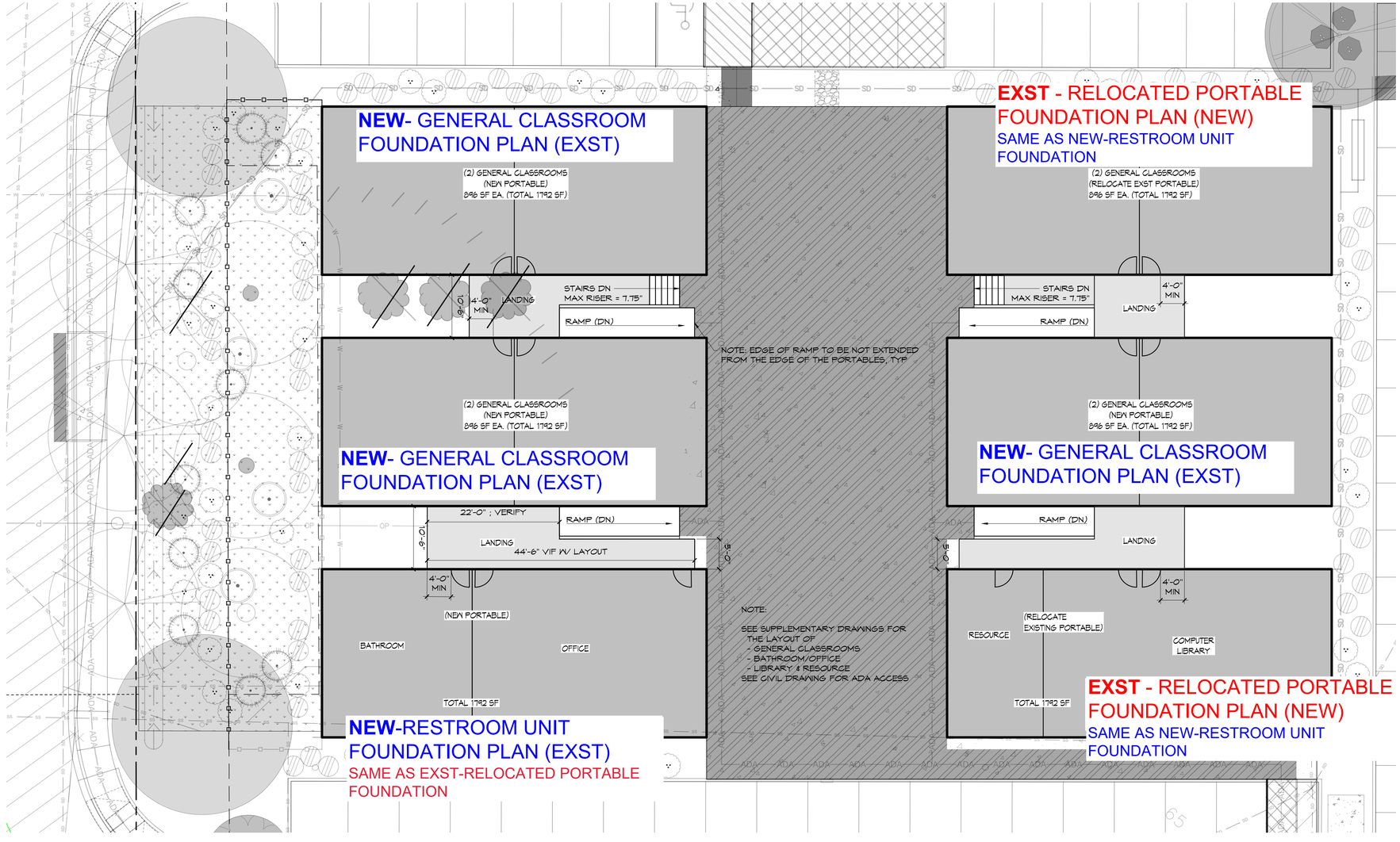
Building	Planning
Engineering	Public Works
Fire	Traffic

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.

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.

Separate Electrical Permit is required with the Washington State Department of Labor & Industries.
https://lni.wa.gov/licensing-permits/electrical/electrical-permits-fees-and-inspections
or call for Licensing Information:
1-800-647-0982



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

JEFF BROWN ARCHITECTURE
JEFF BROWN ARCHITECTURE
12181 C STREET SOUTH
TACOMA, WA 98444

PROJECT LEAD
JEFFREY E. BROWN
253.606.8324
jeff@jeffbrownarchitecture.com

3774 REGISTERED ARCHITECT
JEFFREY E. BROWN
STATE OF WASHINGTON

PROJECT NAME/ADDRESS

PRPF20241230

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

PROJECT NUMBER
24001

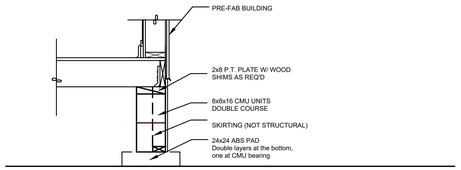
DRAWING TYPE
CUP/SEPA DOCUMENT

DATE	ISSUE	NO.
09.19.24		
10.22.24	CITY-REV	
03.03.25	CITY-REV	
05.12.25	CITY-REV	

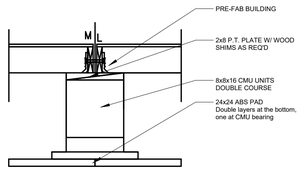
SHEET TITLE
PARTIAL SITE PLAN

SHEET #
A1.2

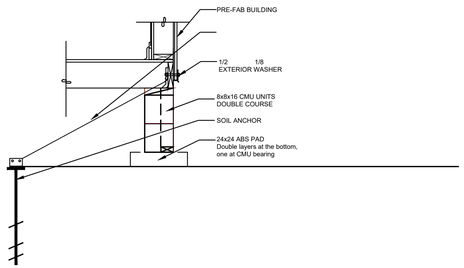
PLOT DATE: 2024-05-14 11:23:20 AM



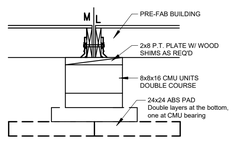
2 PERIMETER SUPPORT
1 : 20



3 MATELINE SUPPORT
1 : 20



4 SOIL ANCHOR
1 : 20



5 INTERIOR COLUMN SUPPORT
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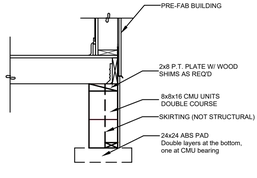
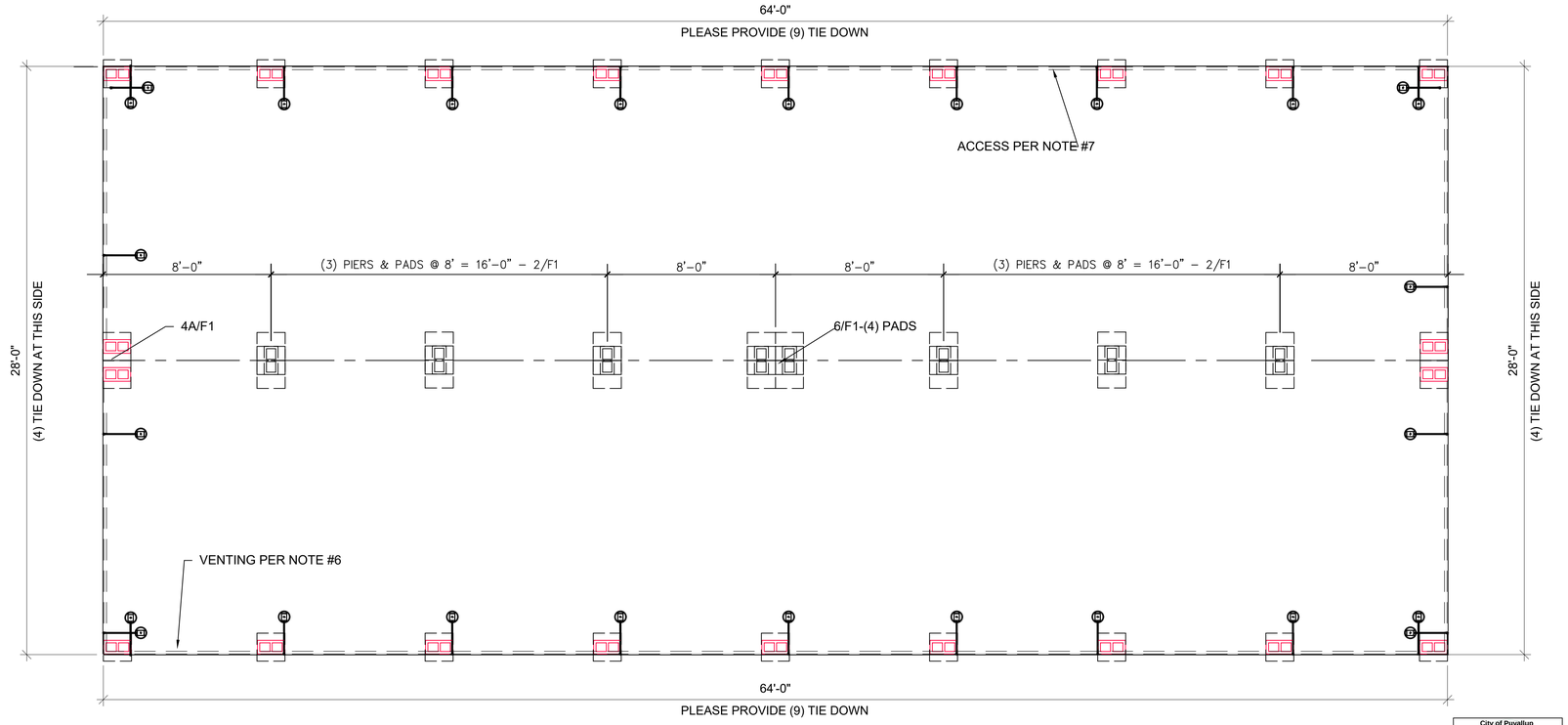


6 EXTERIOR MATELINE SUPPORT
1 : 20



1 FOUNDATION PLAN
1 : 40

NEW- GENERAL CLASSROOM FOUNDATION PLAN (EXST)

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-DEFAULT
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 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 NATIVE SUITABLE STABLE SOILS OR STRUCTURAL FILL.

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

PRPF20241230

Arch D Titleblock R2018.1

ATCO

24x36 SHEET - DO NOT PRINT TO OTHER SCALE

FOR PERMIT

YURANTO YURANTO — STATE OF WASHINGTON — 56776 — REGISTERED PROFESSIONAL ENGINEER — WA

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

REV.	DATE	DESCRIPTION	BY	CHK/APR
1	2024-04-17	ISSUED FOR PERMIT	GM	

PROJECT: 28x64 CLASSROOM

DRAWING TITLE: FOUNDATION / CRAWLSPACE PLAN

CLIENT: ATCO STRUCTURES AND LOGISTICS

PROJECT NO: 1106442-A

DRAWING NO: SC100

REV. # 1

PRPF20241230

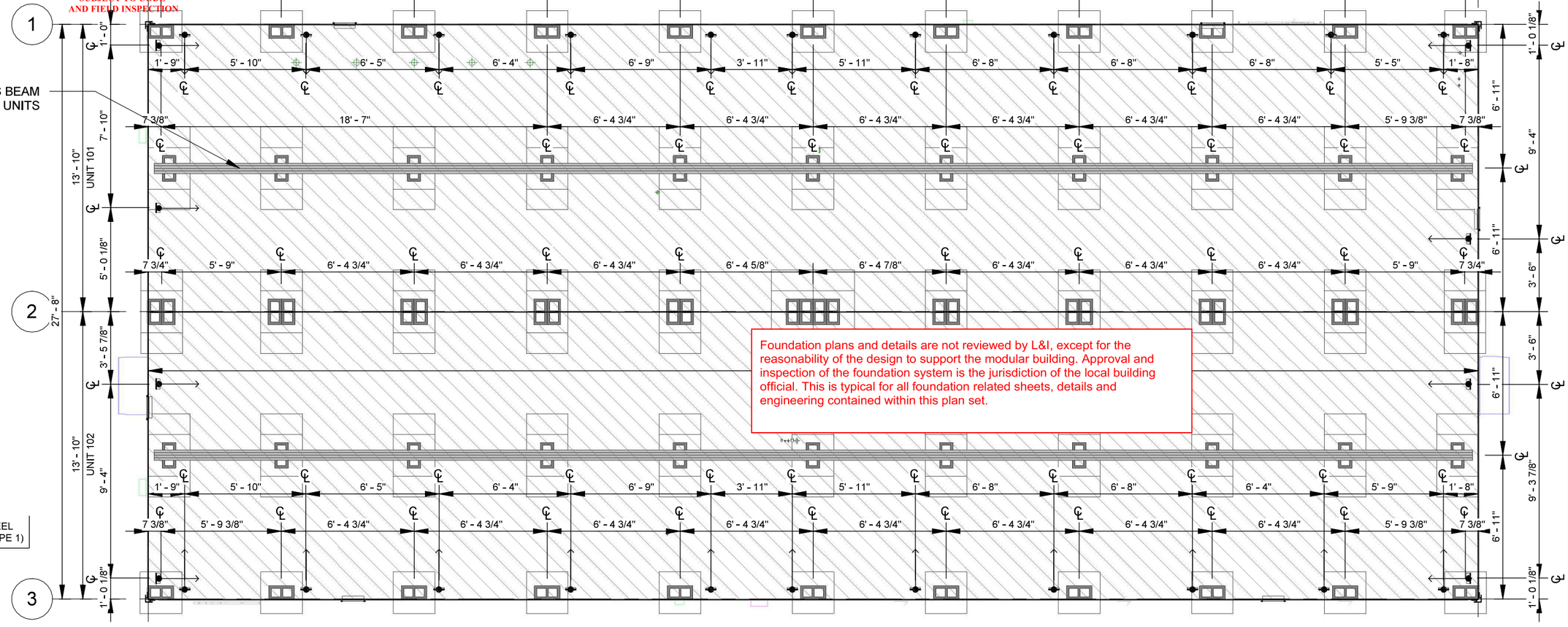
STATE OF WASHINGTON
DEPT. OF LABOR AND INDUSTRIES
FAS PLAN REVIEW SECTION
APPROVED
12/09/2024
SUBJECT TO CODE AND FIELD INSPECTION

21FBS2400126

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

4-2x8 CONTINUOS BEAM @ CENTRE OF UNITS

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



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 ANCHORBRACKET (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 EQUCHALENT, 24"x24", MIN.
   - 6.4. TRANSVERSE & LONGITUDINAL SOIL ANCHORS TO BE MINUTEMAN ANCHORS, MARK 'MMA-35' MODEL '36-XDH', X-DRCHE ANCHORS OR EQUCHALENT 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 EQUCHALENT 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.

PLOT DATE: 2024-07-24 12:32:20 PM

11x17 Titleblock R2024.1

ATCO

FOR PERMIT

NEW-RESTROOM UNIT
EXST-RELOCATED PORTABLE

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 PLAN

CLIENT: CASCADE CHRISTIAN SCHOOL

PROJECT NO: 1107994

Exp. 12/09/2025

DRAWING NO: SC100

REV. # A

PLOT DATE: 2024-07-24 12:32:21 PM

11x17 Titleblock R2024.1

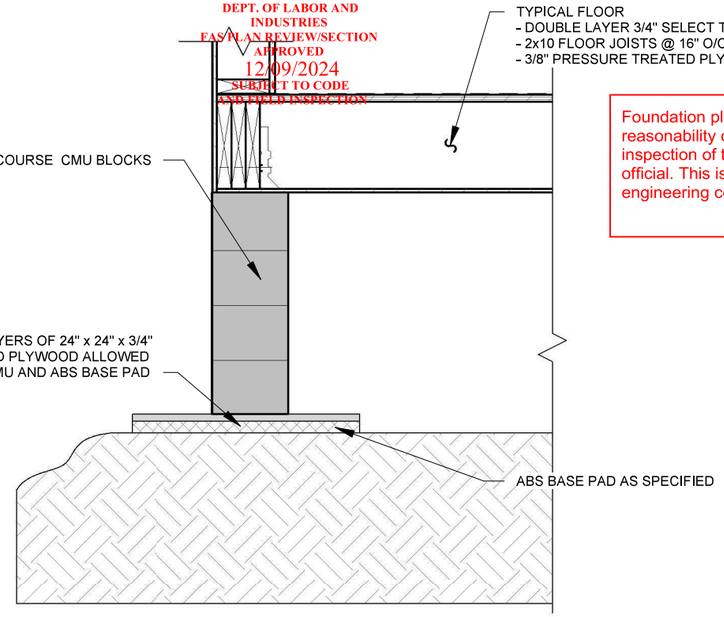
STATE OF WASHINGTON
DEPT. OF LABOR AND INDUSTRIES
FACTORY PLAN REVIEW/SECTION
APPROVED
12/09/2024
SUBJECT TO CODE
AND FIELD INSPECTION

21FBS2400126

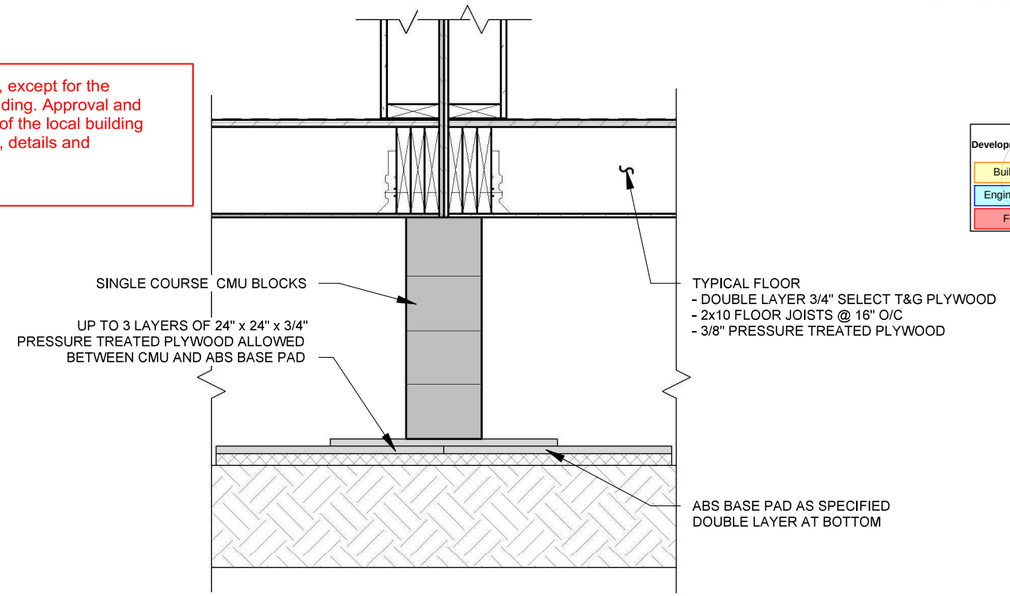
Foundation plans and details are not reviewed by L&I, except for the reasonability of the design to support the modular building. Approval and inspection of the foundation system is the jurisdiction of the local building official. This is typical for all foundation related sheets, details and engineering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

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

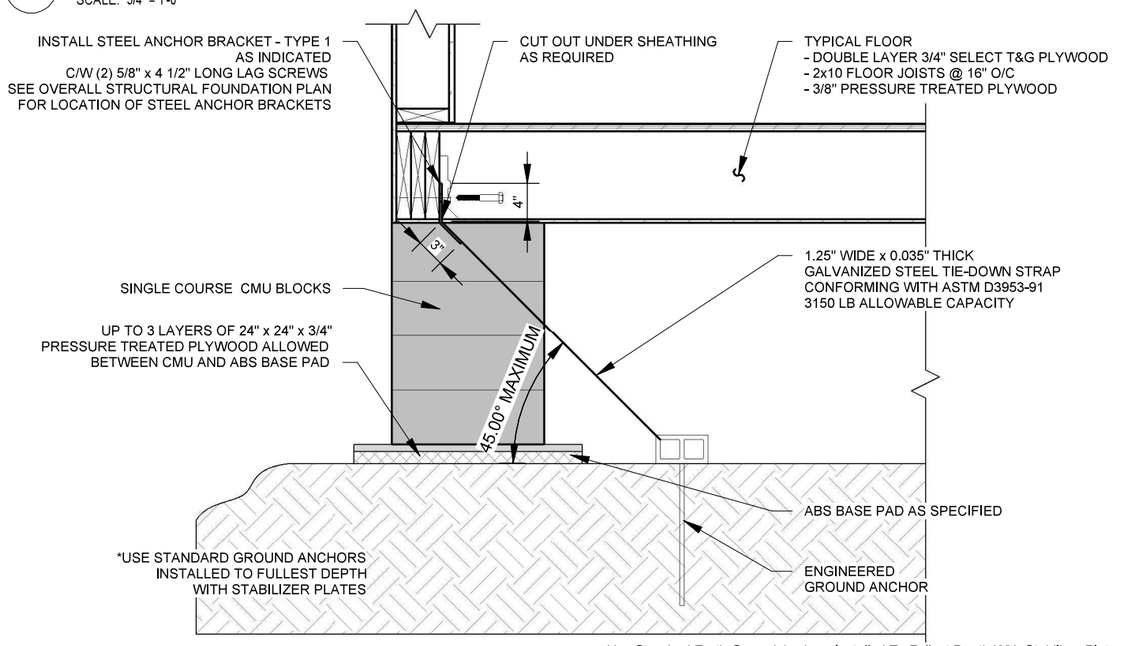
PRPF20241230



1 FOUNDATION PERIMETER DETAIL
SCALE: 3/4" = 1'-0"



2 FOUNDATION MATING LINE DETAIL
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.

3 FOUNDATION SOIL ANCHOR
SCALE: 3/4" = 1'-0"

4 FOUNDATION COLUMN SUPPORT DETAIL
SCALE: 3/4" = 1'-0"

WA
YURIANTO YURIANTO
STATE OF WASHINGTON
56776
REGISTERED PROFESSIONAL ENGINEER
By Yuri at 7:30:29 PM, 7/24/2024

ATCO

FOR PERMIT

NEW-RESTROOM UNIT
EXST-RELOCATED PORTABLE

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

REV. # A

Exp. 12/09/2025

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

PRPF20241230

Date: July 30, 2025

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

Subject: Certified Letter for X-Plate Anchor

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

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 43% at each tie-down direction. (Lateral capacity of Earth auger is 3150 lb. Thus 3150 lb / 2200 lb = 143%). For Example: If the original number of earth auger tie-down is 9 per the long side of building, and 4 per the gable end side of the building. Therefore, using the X-Plate anchors, the revised quantity shall be 13 per the long side of the building, and 6 per the gable end side of the building. The anchor shall be placed at approximately equally spaced, plus minus 12".

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

City of Puyallup
Building
REVIEWED FOR COMPLIANCE
SKinnear
08/08/2025
8:25:54 AM

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

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

Sincerely,

Yurianto Yurianto

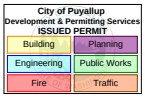
Digitally signed by Yurianto Yurianto
DN: cn=Yurianto Yurianto c=US o=Texas
Reason: I am the author of this document
Location:
Date: 2025-08-05 13:56:06-05:00

WA
YURIANTO YURIANTO
STATE OF WASHINGTON
56776
REGISTERED
PROFESSIONAL ENGINEER

By Yuri at 12:11:26 PM, 7/30/2025

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

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



Title 24 —Housing and Urban Development
Subtitle B —Regulations Relating to Housing and Urban Development
Chapter XX —Office of Assistant Secretary for Housing—Federal Housing Commissioner, Department of Housing and Urban Development
Part 3285 —Model Manufactured Home Installation Standards
Subpart C —Site Preparation

Authority: 42 U.S.C. 3535(d), 5403, 5404, and 5424.
Source: 72 FR 59362, Oct. 19, 2007, unless otherwise noted.

§ 3285.202 Soil classifications and bearing capacity.

The soil classification and bearing capacity of the soil must be determined before the foundation is constructed and anchored. The soil classification and bearing capacity must be determined by one or more of the following methods, unless the soil bearing capacity is established as permitted in paragraph (f) of this section:

(a) ***Soil tests.*** Soil tests that are in accordance with generally accepted engineering practice; or

(b) ***Soil records.*** Soil records of the applicable LAHJ; or

(c) ***Soil classifications and bearing capacities.*** If the soil class or bearing capacity cannot be determined by test or soil records, but its type can be identified, the soil classification, allowable pressures, and torque values shown in Table to § 3285.202 may be used.

(d) A pocket penetrometer; or

(e) In lieu of determining the soil bearing capacity by use of the methods shown in the table, an allowable pressure of 1,500 psf may be used, unless the site-specific information requires the use of lower values based on soil classification and type.

(f) If the soil appears to be composed of peat, organic clays, or uncompacted fill, or appears to have unusual conditions, a registered professional geologist, registered professional engineer, or registered architect must determine the soil classification and maximum allowable soil bearing capacity.

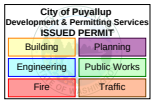


TABLE TO § 3285.202

Soil classification		Soil description	Allowable soil bearing pressure (psf) [1]	Blow count ASTM D 1586-99	Torque probe [3] value [4] (inch-pounds)-
Classification number	ASTM D 2487-00 or D 2488-00 (incorporated by reference, see § 3285.4)				
1		Rock or hard pan	4000 +		
2	GW, GP, SW, SP, GM, SM	Sandy gravel and gravel; very than dense and/orcemented sands;coursegravel/ cobbles;preloaded silts,clays and coral	2000	40 +	More than 550.
3	GC, SC, ML, CL	Sand; silty sand; clayey sand; siltygravel; medium dense course sands; sandygravel; and very stiff silt, sand clays	1500	24-39	351-550.
4A	CG, MH [2]	Loose to medium dense sands; firm to stiff clays and silts; alluvial fills	1000	18-23	276-350.
4B	CH, MH [2]	Loose sands; firm clays; alluvial fills	1000	12-17	175-275.
5	OL, OH, PT	Uncompacted fill; peat; organic clays	Refer to 3285.202(e)	0-11	Less than

Notes:

[1] The values provided in this table have not been adjusted for overburden pressure, embedment depth, water table height, or settlement problems.

[2] For soils classified as CH or MH, without either torque probe values or blow count test results, selected anchors must be rated for a 4B soil.

[3] The torque test probe is a device for measuring the torque value of soils to assist in evaluating the holding capacity of the soil in which the ground anchor is placed. The shaft must be of suitable length for the full depth of the ground anchor.

[4] The torque value is a measure of the load resistance provided by the soil when subject to the turning or twisting force of the probe.

Soil classification		Soil description	Allowable soil bearing pressure (psf) [1]	Blow count ASTM D 1586-99	Torque probe [3] value [4] (inch-pounds)-
Classification number	ASTM D 2487-00 or D 2488-00 (incorporated by reference, see § 3285.4)				
					175.

Notes:

[1] The values provided in this table have not been adjusted for overburden pressure, embedment depth, water table height, or settlement problems.

[2] For soils classified as CH or MH, without either torque probe values or blow count test results, selected anchors must be rated for a 4B soil.

[3] The torque test probe is a device for measuring the torque value of soils to assist in evaluating the holding capacity of the soil in which the ground anchor is placed. The shaft must be of suitable length for the full depth of the ground anchor.

[4] The torque value is a measure of the load resistance provided by the soil when subject to the turning or twisting force of the probe.