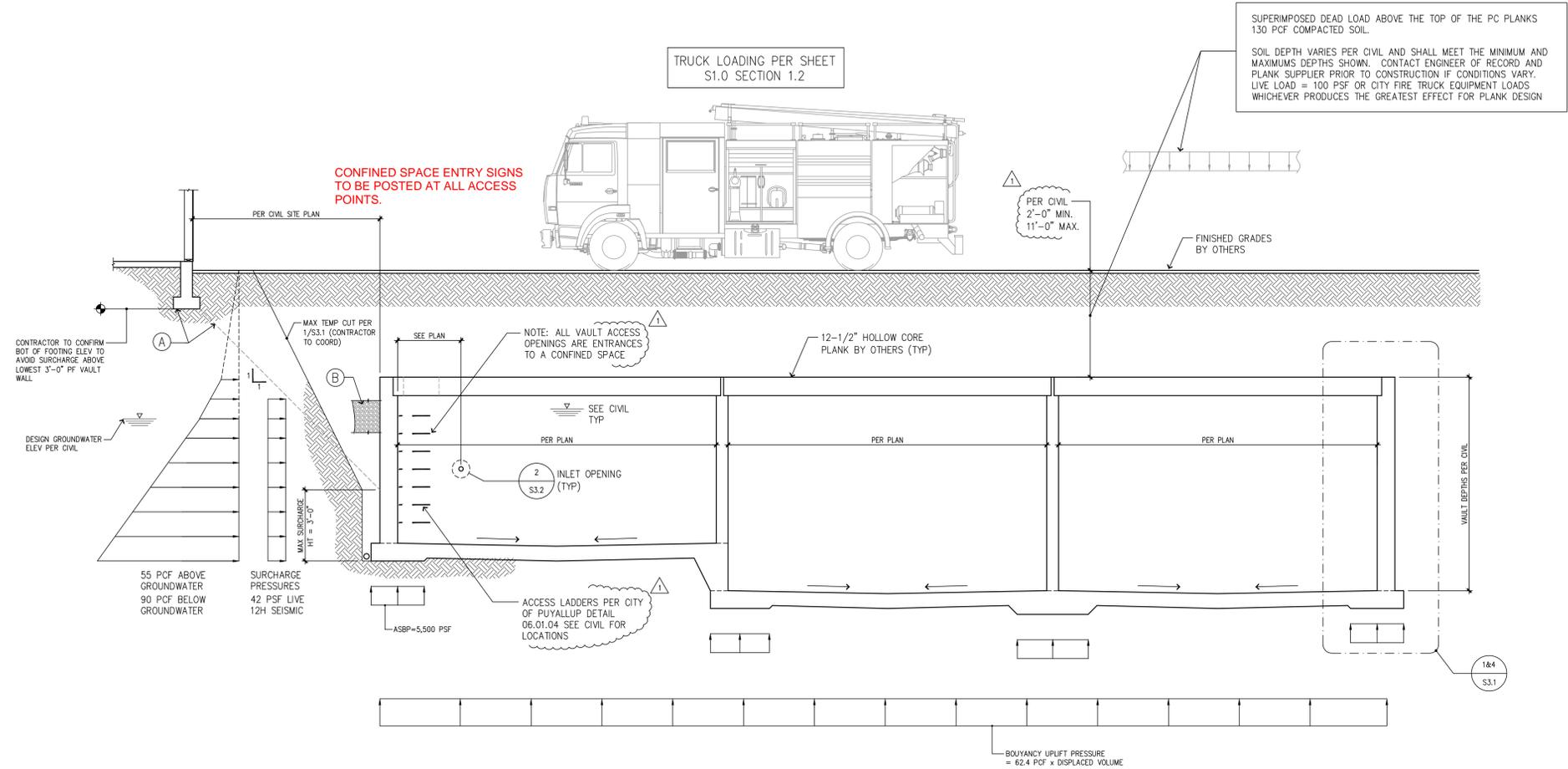


- (A) TEMPORARY SLOPES PER SOILS ENGINEER. SEE DETAIL 10/S3.1 FOR EXCAVATION NOTES AND MINIMUM BUILDING OFFSETS.
- (B) COMPLETION OF BACKFILL SHALL NOT BEGIN UNTIL AFTER PLANKS ARE PLACED AND GROUTED PER SECTION 1/S3.1 METHODS AND MATERIALS SHALL BE COORDINATED BETWEEN THE SOILS ENGINEER AND THE CONTRACTOR AND SHALL NOT RESULT IN OUT OF PLANE PRESSURES EXCEEDING THE LIMITS NOTED.
- (C) DE-WATERING REQUIRED DURING CONSTRUCTION SHALL REMAIN UNTIL FINAL GRADE MATERIAL HAS BEEN PLACED ABOVE THE PLANKS.



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

Vault Design Loading



Revisions to this sheet:
 △ 3-20-2025 REVISIONS PER CITY REVIEW COMMENTS

Bradley Heights Apartments
 Detention Vaults 2, 3, & 4
 202 27th Ave SE
 Puyallup, Washington

PRRWF20250233

Solutions 4 Structures
 A Structural Engineering Corporation

Puyallup, Washington 98374
 Ph 253-314-9822
 www.solutions4structures.com

PROJECT NO. : 23-007
 DESIGNED BY : MRO
 DRAWN BY : RSO
 ISSUE DATE : 8-16-24
 LATEST REV. OF DWG. SET : △ 3-20-25

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S1.1

CAD FILE: F:\Projects\2023 Projects\Drawings\Detention_Vault\S2.0.dwg PLOT DATE/TIME: 6/9/2025 - 11:10am THANK YOU FOR USING SOLUTIONS 4 STRUCTURES

Plank Framing Notes - Vault 2

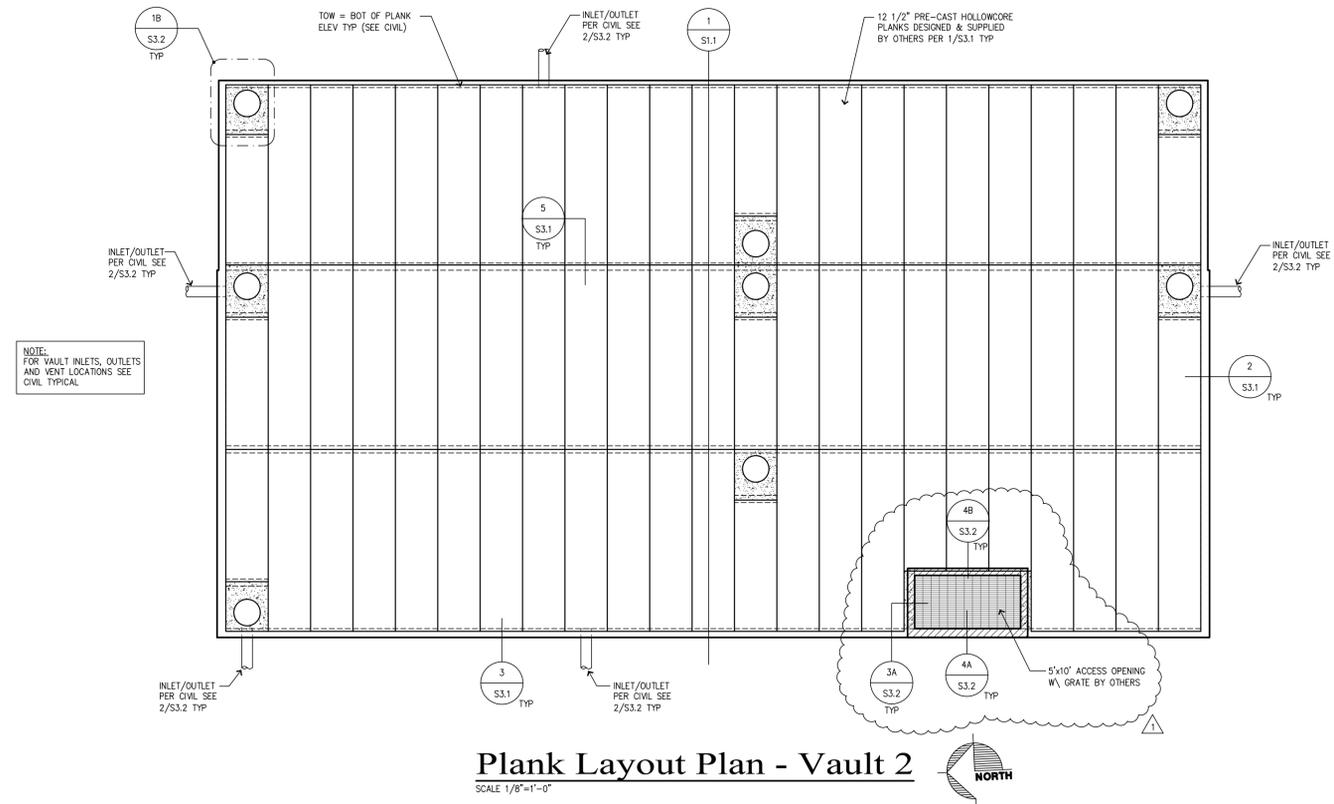
1. TOW = TOP OF WALL ELEVATION (ALSO BOTTOM OF PLANKS) = 381.07'
2. TOF = VARIES SEE CIVIL
3. TOP OF VAULT FRAMING TYPICALLY CONSISTS OF SIMPLE SPAN 12-1/2" PRECAST PRE-STRESSED HOLLOW CORE PLANKS TO BE DESIGNED BY OTHERS TO CARRY ALL DESIGN LOADS AS SHOWN ON SHEET S1.1
4. FLOOR PLANK LOCATIONS ARE SCHEMATICALLY SHOWN ON THE PLANS. IT IS NOT THE INTENT OF THE STRUCTURAL PLANS TO GRAPHICALLY LOCATE ALL FRAMING MEMBERS. THE CONTRACTOR IS RESPONSIBLE FOR SPACING FRAMING MEMBERS AS NOTED ON THE PLANS AND GENERATING MEMBER LAYOUTS FOR SHOP DRAWINGS AND QUANTITY TAKEOFFS.
5. REFER TO SHEET S3.1 FOR TYPICAL PLANK CONNECTION DETAILS
6. CONTRACTOR SHALL VERIFY AND COORDINATE ALL OPENINGS THROUGH THE PLANK FRAMING ASSEMBLY. SEE SHEET S3.2 FOR RELATED DETAILS.
7. ALL BACKFILL SHALL NOT BEGIN UNTIL AFTER PLANKS ARE PLACED AND GROUTED. METHODS AND MATERIALS SHALL BE COORDINATED BETWEEN THE SOILS ENGINEER AND THE CONTRACTOR AND SHALL NOT RESULT IN OUT OF PLANE PRESSURES EXCEEDING THE LIMITS NOTED.
8. SEE THE GENERAL STRUCTURAL NOTES ON SHEET S1.0 FOR ADDITIONAL INFORMATION.

CONTRACTOR NOTE

Engineer shall review and approve plank shop drawings prior to install. Engineer will provide a letter of approval of shop drawing prior to install. Engineer's letter will be present at time of inspection.

NOTE:

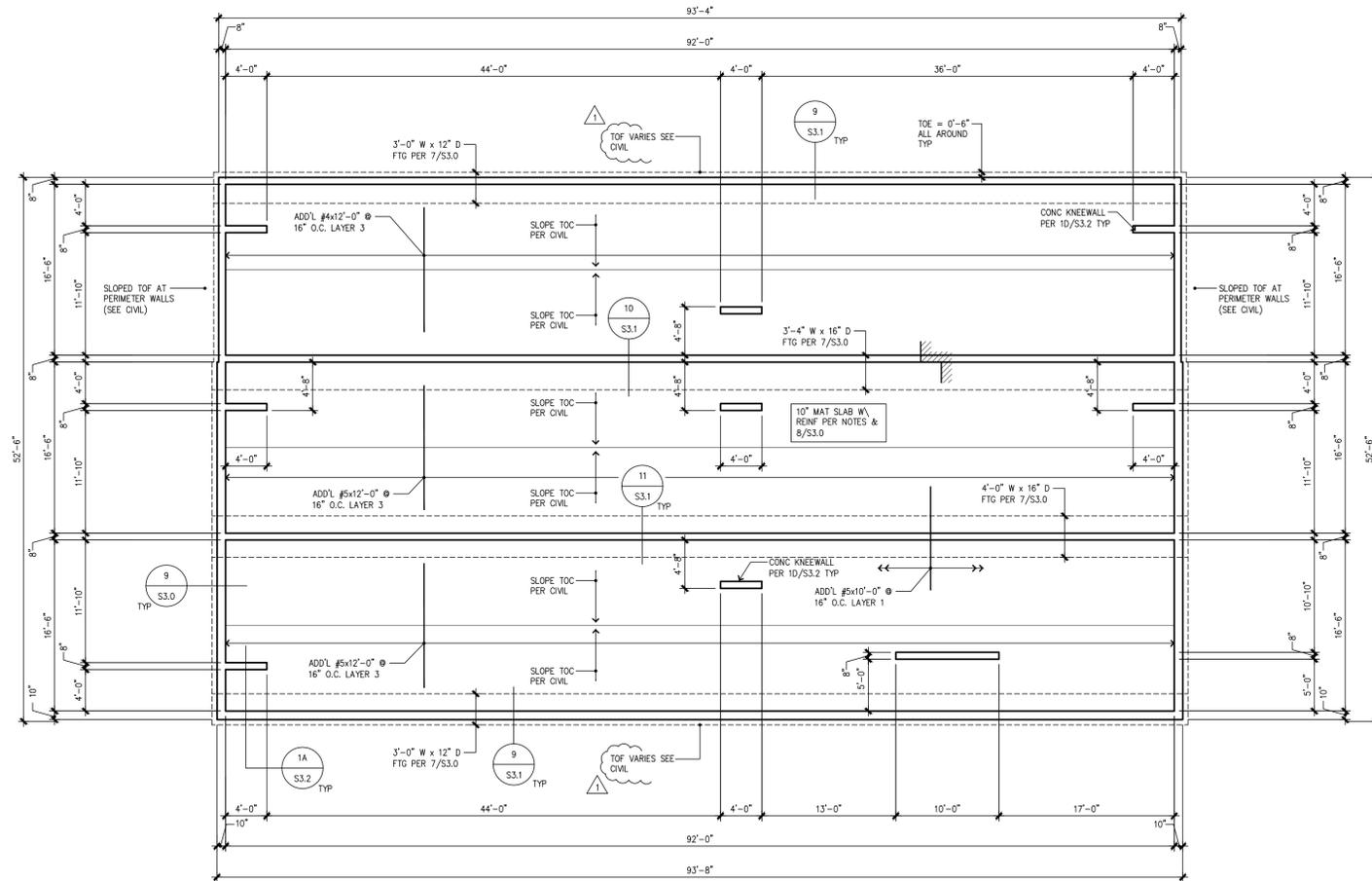
Review Geotechnical Engineering Report regarding Temporary Excavations prior to commencement of work.



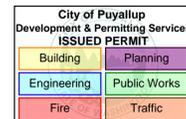
Plank Layout Plan - Vault 2
SCALE 1/8"=1'-0"

Foundation Notes - Vault 2

1. TOF ELEVATIONS VARY (SEE PLAN)
2. TYPICAL DIMENSIONS ARE TO FACE OF WALL OR TO CENTERLINE OF COLUMN OR FOOTING. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECT.
3. PROVIDE MAT FOOTING SUBSTRATE PREPARATION PER THE SOILS REPORT.
4. ALL FOOTING DOWELS = SAME SIZE AND SPACING AS VERT WALL REINF TYPICAL
5. 10" THICK MAT SLAB W/ #5 @ 16" O.C. EA WAY PER 8/S3.0 & ADD'L REINFORCEMENT PER PLAN TYP.
6. PROVIDE 36"x36" CORNER BARS AT ALL WALL/FOOTING INTERSECTIONS AND CORNERS TO MATCH ALL HORIZONTAL REINFORCEMENT.
7. DO NOT BACKFILL PERIMETER CONC WALLS UNTIL PLANK ASSEMBLY HAS BEEN PLACED AND GROUTED.
8. SEE THE GENERAL STRUCTURAL NOTES ON SHEET S1.0 FOR ADDITIONAL INFORMATION.



Foundation Plan - Vault 2
SCALE 1/8"=1'-0"



THOMAS L. CHASE, PE
MARTIN R. OMAN, PE, SE
OLEG G. KONDRATYUK, PE

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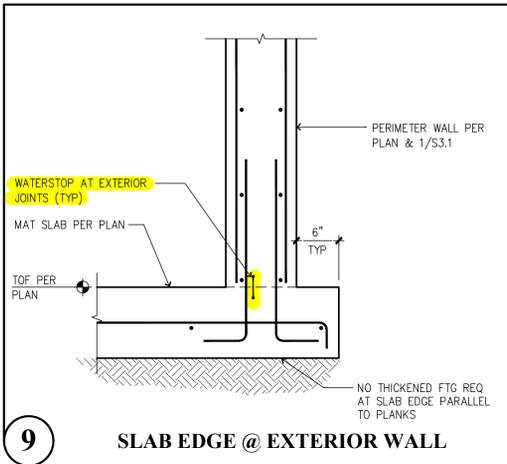
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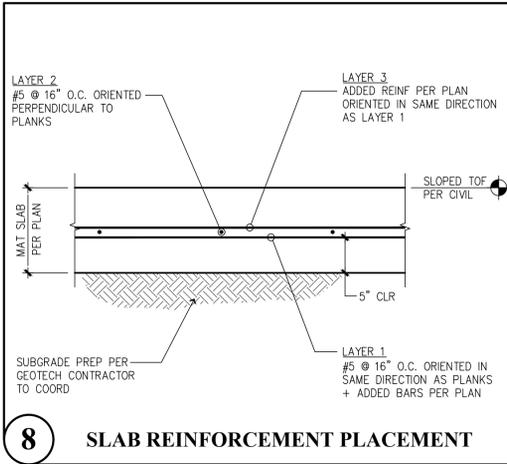
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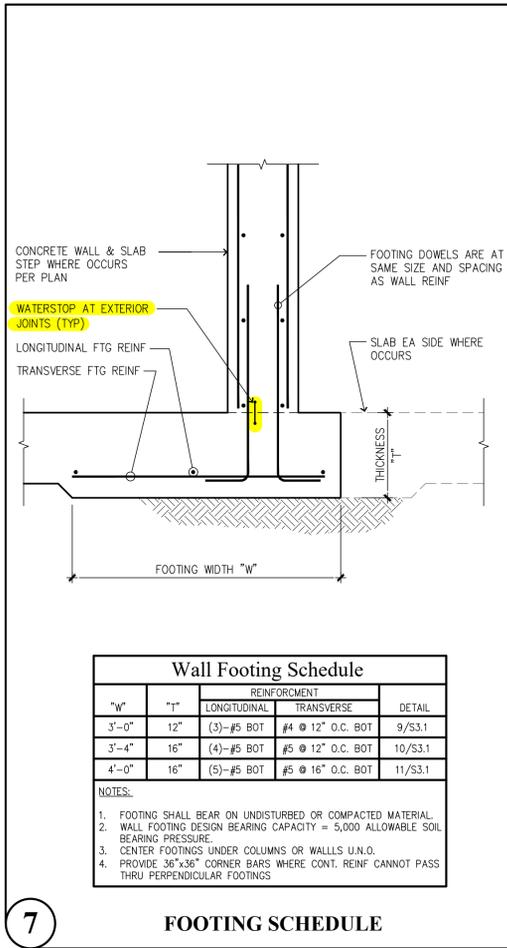
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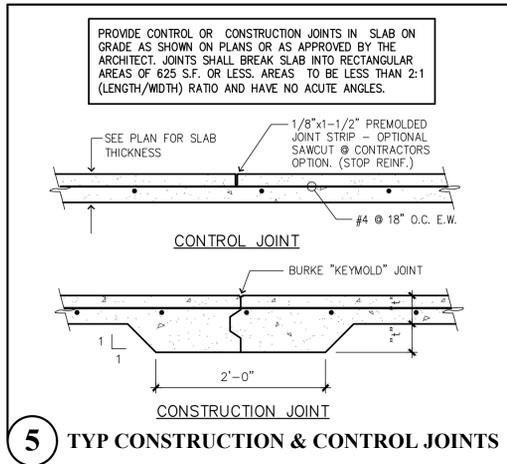
9 SLAB EDGE @ EXTERIOR WALL



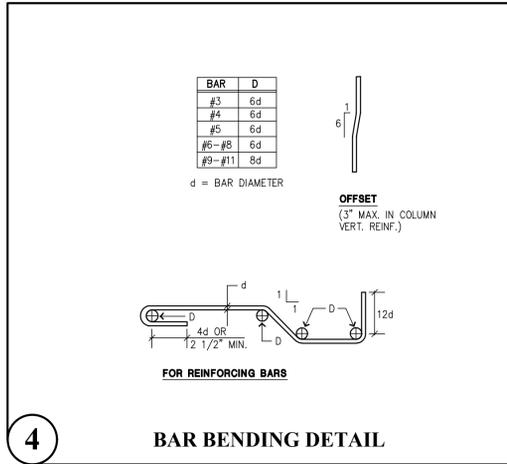
8 SLAB REINFORCEMENT PLACEMENT



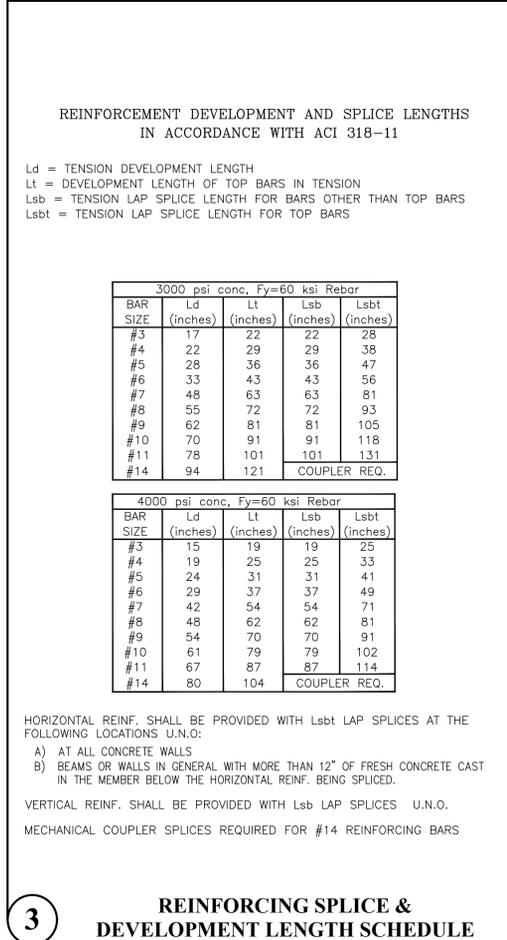
7 FOOTING SCHEDULE



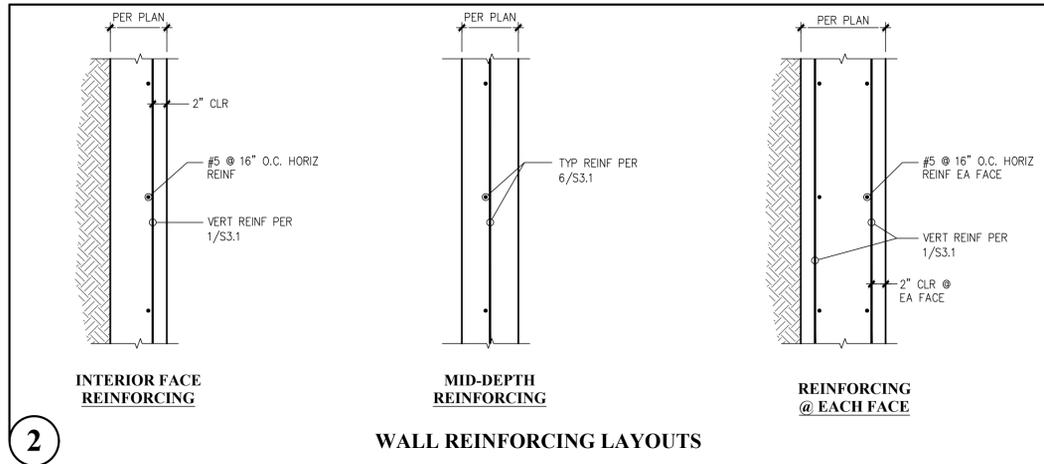
5 TYP CONSTRUCTION & CONTROL JOINTS



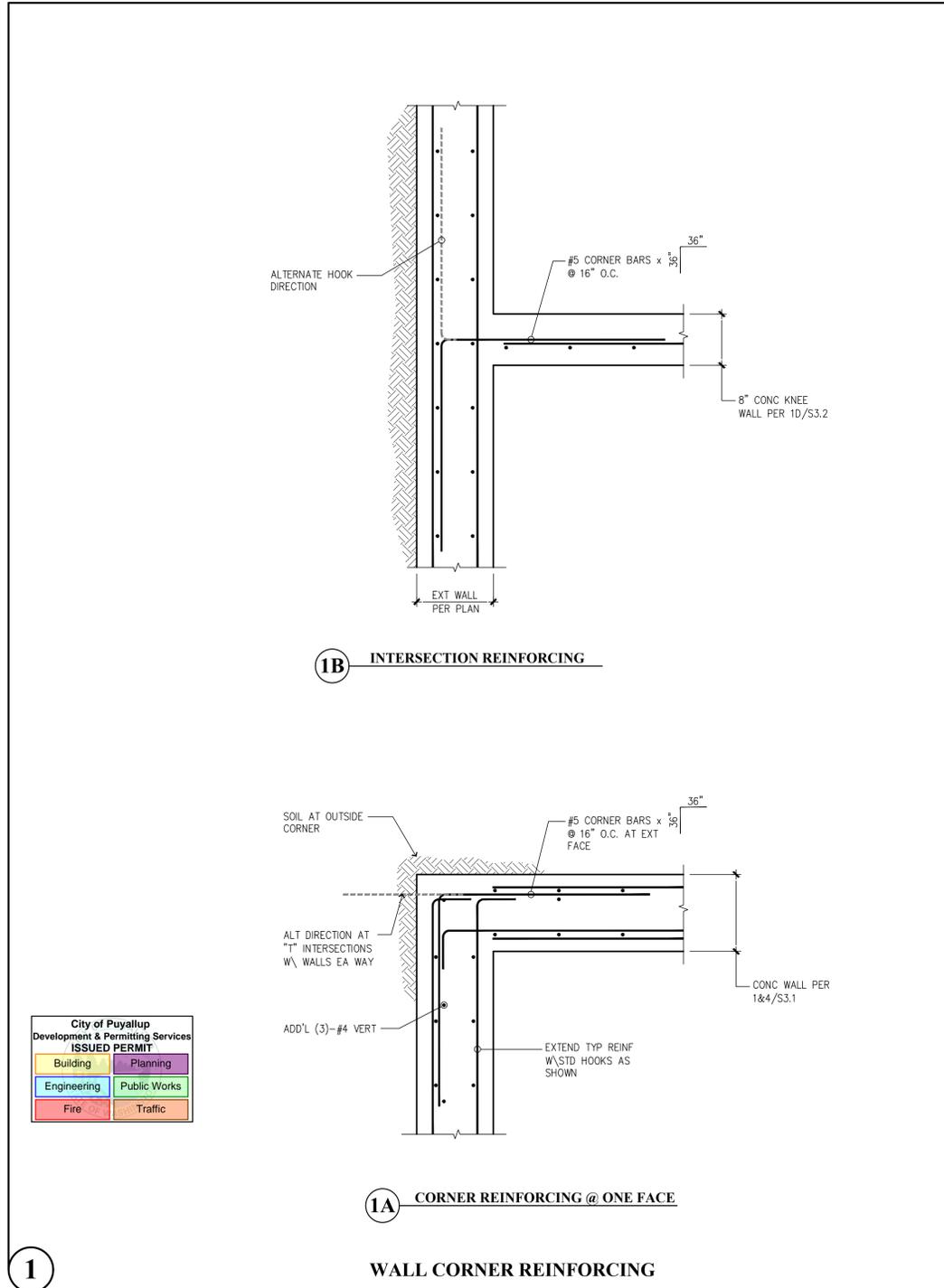
4 BAR BENDING DETAIL



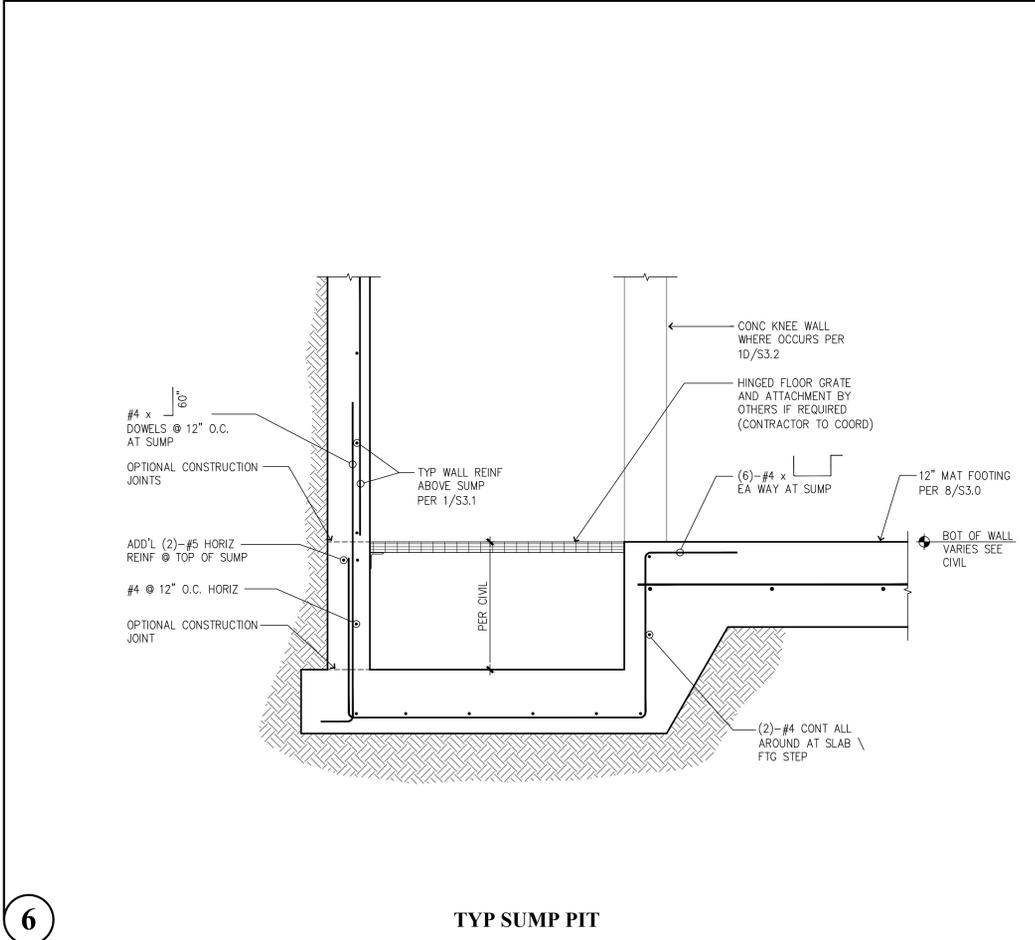
3 REINFORCING SPLICE & DEVELOPMENT LENGTH SCHEDULE



2 WALL REINFORCING LAYOUTS

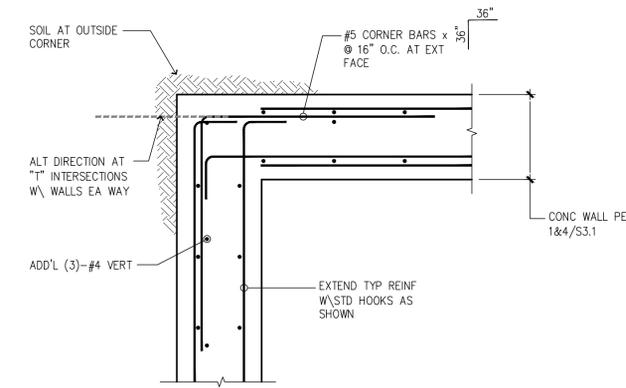


1 WALL CORNER REINFORCING

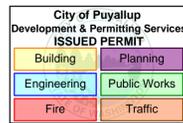


6 TYP SUMP PIT

1B INTERSECTION REINFORCING



1A CORNER REINFORCING @ ONE FACE



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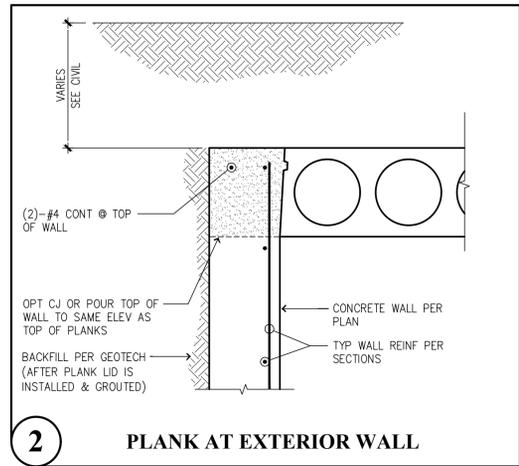
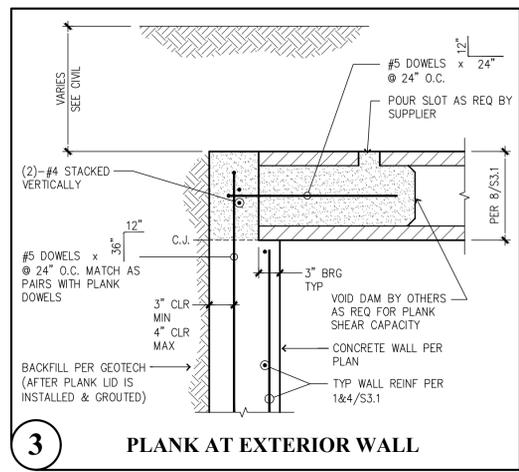
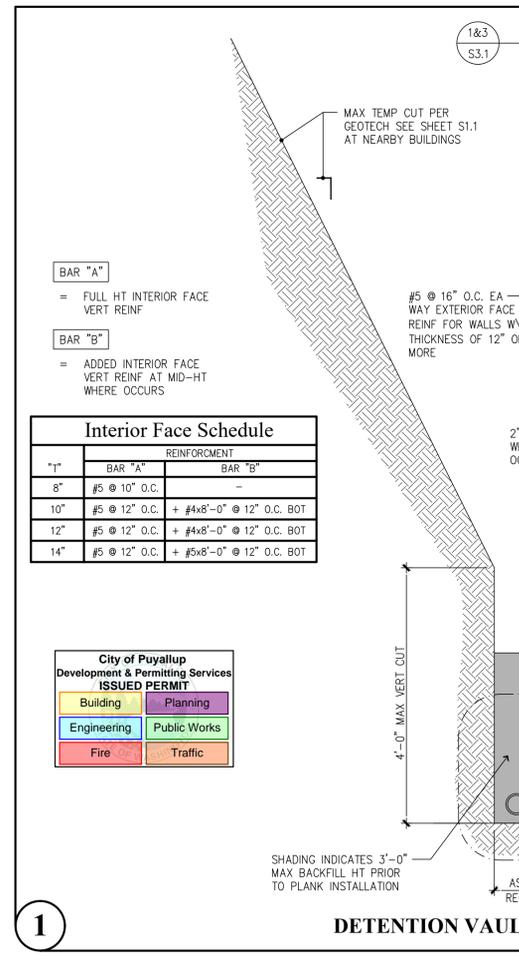
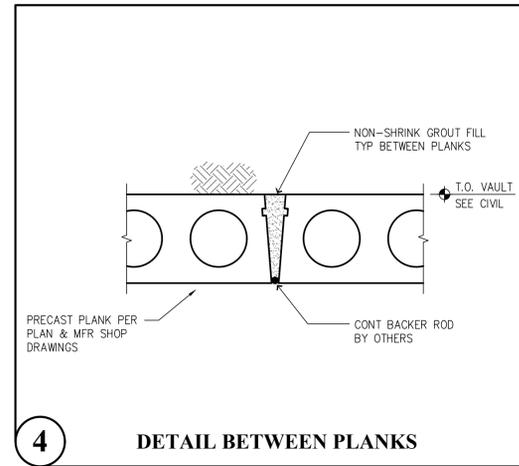
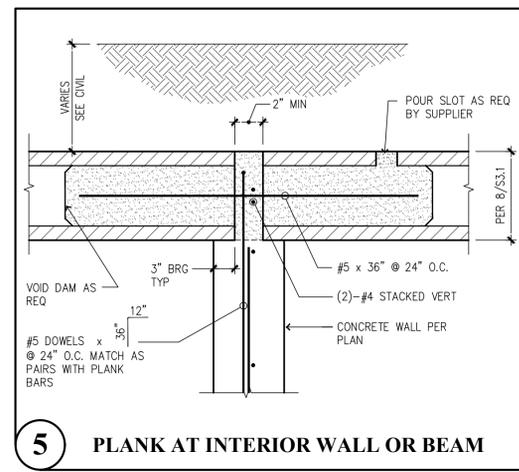
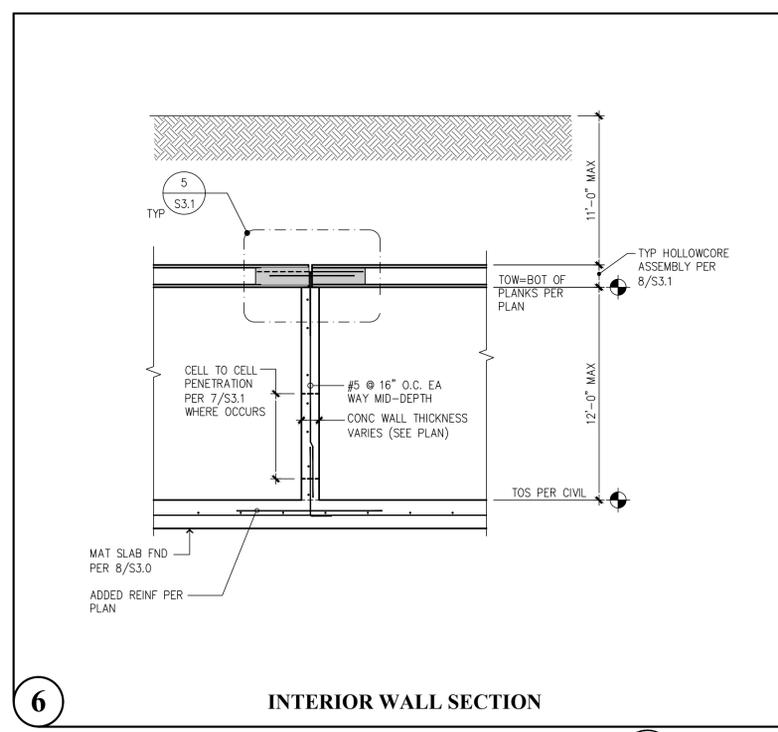
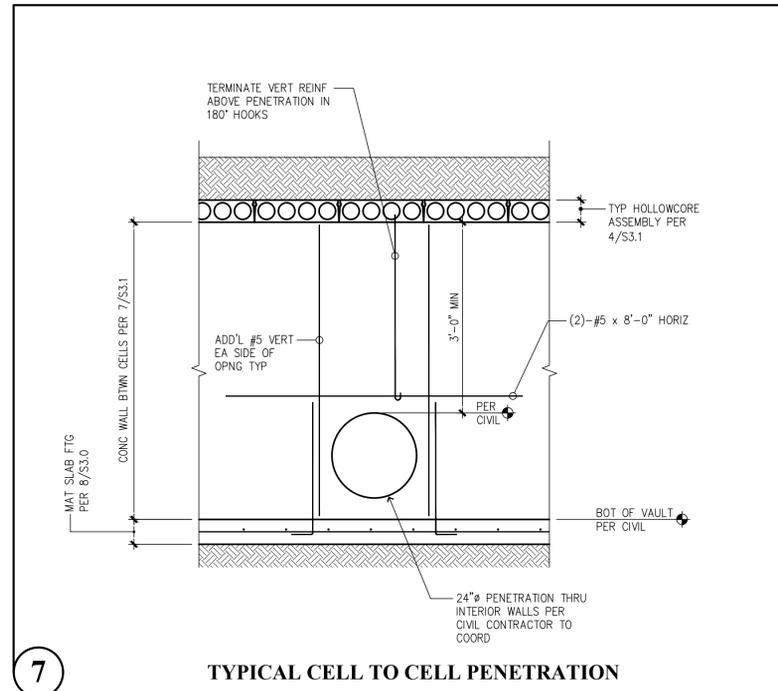
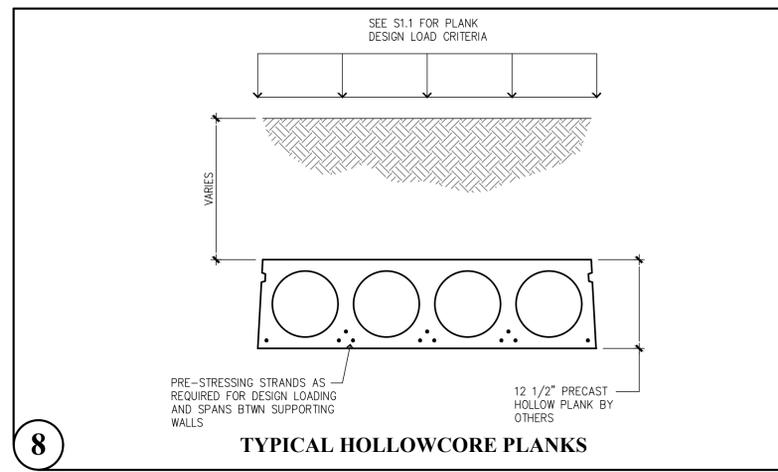
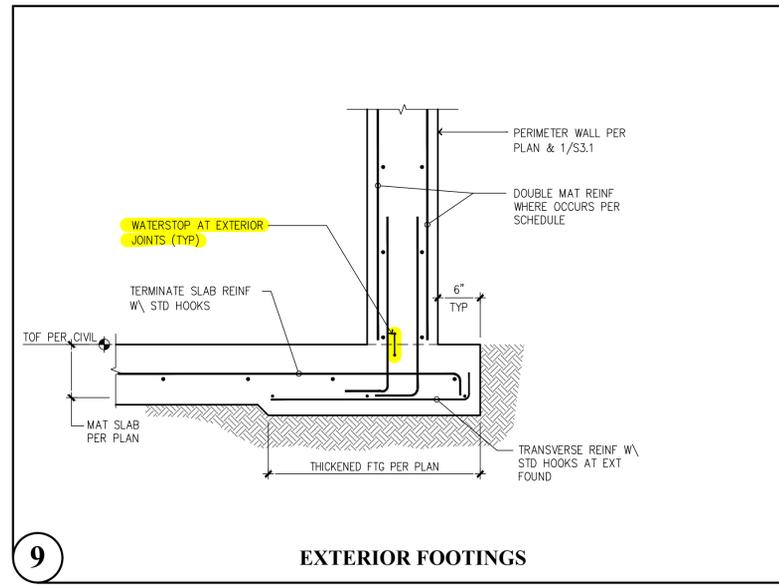
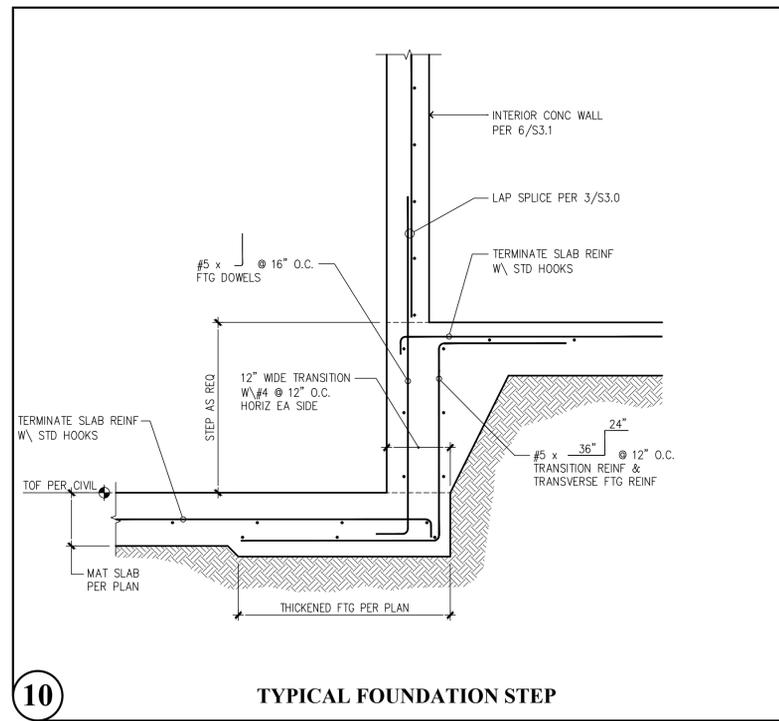
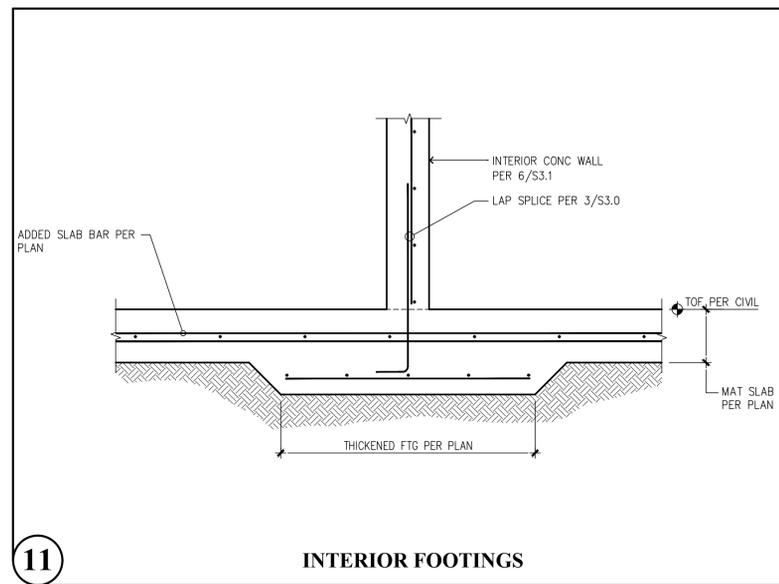
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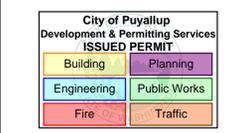
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CAD FILE: F:\Projects\2023 Projects\03.007 Bradley Heights\Drawings\Detention_Vault\S3.1.dwg



- BAR "A" = FULL HT INTERIOR FACE VERT REINF
- BAR "B" = ADDED INTERIOR FACE VERT REINF AT MID-HT WHERE OCCURS

TYP	REINFORCEMENT	
	BAR "A"	BAR "B"
1"	#5 @ 10" O.C.	-
8"	#5 @ 12" O.C.	+ #4x8'-0" @ 12" O.C. BOT
10"	#5 @ 12" O.C.	+ #4x8'-0" @ 12" O.C. BOT
12"	#5 @ 12" O.C.	+ #4x8'-0" @ 12" O.C. BOT
14"	#5 @ 12" O.C.	+ #5x8'-0" @ 12" O.C. BOT



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