

DESIGN BASIS

BUILDING CODE	=2021 IBC
RISK CATEGORY	=II

FOUNDATION

- FOUNDATIONS HAVE BEEN DESIGNED BASED ON A BEARING CAPACITY OF 1400 PSF PER GEOTECHNICAL REPORT PREPARED BY TERRACON, DATED 12-27-2024 (TERRACON PROJECT NO. 61245209).
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND PROTECTING ALL EXCAVATION.
- FOOTINGS SHALL BE 30" MINIMUM BELOW FINISHED GRADE.
- UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH COMPACTED SOIL.
- FOUNDATIONS SHALL NOT BE PLACED ON FROZEN GROUND OR IN WATER.
- ALL FOOTING EXCAVATIONS SHALL BE FINISHED BY HAND.
- CONTRACTOR TO COORDINATE ALL FLOOR DRAINAGE AND PLUMBING.

REINFORCING

- WHERE 90, 135, OR 180 DEGREE HOOKS ARE INDICATED ON PLANS, PROVIDE ACI STANDARD HOOK.
- LAP REINFORCEMENT PER LAP SPLICE LENGTH SCHEDULE UNO. AT SHEARWALLS, INCREASE LAP SPLICE 25%.
- MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE AND A HALF FULL MESH, WHICHEVER IS GREATER.
- PROVIDE NECESSARY ACCESSORIES TO PROPERLY PLACE REINFORCEMENT.
- REINFORCEMENT SHOWN IN DETAILS IS MEANT TO BE TYPICAL UNO.
- ALL CONCRETE SHALL INCLUDE REINFORCEMENT. IF REINFORCING IS NOT SPECIFICALLY INDICATED ON DRAWINGS, CONTACT THE EOR.
- ALL REINFORCEMENT POST-INSTALLED INTO HARDENED CONCRETE SHALL BE DOWELED AND EPOXIED UNO, SEE PLANS AND DETAILS FOR EPOXY GRADE AND DOWEL EMBEDMENT. IF EPOXY OR DOWEL EMBEDMENT IS NOT NOTED ON THE DRAWINGS, CONTACT THE EOR.
- REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS:

ITEM	MATERIAL
GENERAL	ASTM A615 GRADE 60
COLUMNS, BEAMS AND SHEARWALLS	ASTM A706 - 60 KSI OR A615 GRADE 60 WITH MILL CERTIFICATION SHOWING ACTUAL YIELD DOES NOT EXCEED SPECIFIED STRENGTH BY MORE THEN 18000 PSI AND THE RATIO OF TENSILE TO YELD STRENTH IS GREATER THAN 1.25
WELDED WIRE REINFORCEMENT	ASTM A706
HEADED STUD ANCHORS	ASTM A108
DEFORMED BAR ANCHORS	ASTM A496

CONCRETE

- ALL CONCRETE WORK SHALL COMPLY WITH THE CURRENT VERSION OF ACI 318.
 - ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED.
 - CONCRETE SHALL BE NORMAL WEIGHT UNO.
 - CONCRETE COVER SPECIFIED IN CONCRETE COVER TABLE.
 - CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, PLACEMENT AND REMOVAL OF ALL FORMWORK AND SHORING.
 - CONCTRACTOR SHALL COORDINATE ALL PENETRATIONS IN CONCRETE PRIOR TO PLACEMENT OF CONCRETE. NO PENETRATIONS SHALL BE MADE IN CONCRETE UNLESS SPECIFICALLY DETAILED. IF NO DETAIL PROVIDED, CONTACT EOR.
 - ALL EMBED PLATES AND DOWLES SHALL BE TIED TO REINFORCMENT PRIOR TO PLACEMENT OF CONCRETE.
 - ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4" UNO BY ARCHITECT.
 - FORMS SHALL NOT BE REMOVED UNTIL CONCRETE HAS REACHED A STRENGTH SUFFICIENT TO SAFELY SUPPORT ITSELF AND ANY RELATED CONSTRUCITON LOADS.
 - SUSPENDED SLAB FORMS SHALL BE RE-SUPPORTED AFTER FORM REMOVAL UNTIL CONCRETE REACHES ITS 28-DAY SPECIFIED STRENGTH.
 - CONTRACTOR SHALL NOT BACKFILL AGAINST CONCRETE WALLS UNLESS FLOOR DIAPHRAGM OR SHORING IS IN PLACE.
 - CONTROL JOINTS SHALL BE INSTALLED IN ALL COMMERCIAL EXPOSED CONCRETE SLABS ON GRADE WITH SPANS LONGER THAN 15', SEE PLANS OR CONTACT E.O.R.
 - USE OF CHLORIDE CONTAINING AGENTS AND CALCIUM CHLORIDE IS PROHIBITED. PLACEMENT OF CONCRETE IN CONTACT WITH ALUMINUM IS ALSO PROHIBITED.
 - SUBMIT ENGINEERED CONCRETE MIXES INCLUDING REQUIRED BACKUP DATA FOR EACH TYPE OF CONCRETE TO BE USED FOR ENGINEER REVIEW.
 - CONCRETE MATERIALS:
- | ITEM | MATERIAL |
|---------------------------|-----------|
| NORMAL WEIGHT AGGREGATE | ASTM C33 |
| FLY ASH, CLASS F POZZOLAN | ASTM C618 |
- ALL CONCRETE NOTED IN NOTE 17 DESIGNED BASED ON A COMPRESSIVE STRENGTH OF 2500 PSI UNO.
 - SEE BELOW FOR REQUIRED CONCRETE COMPRESSIVE STRENGTHS, EXPOSURE CLASSIFICATION AND WEIGHT BASED ON THE REQUIREMENTS OUTLINED IN ACI 318:

COMPONENT	EXPOSURE CLASS	COMPRESSIVE STRENGTH
FOOTINGS/PILE CAPS/GRADE BEAMS	F0/S0/W0/C1	2500 PSI
MAT SLAB FOUNDATIONS	F0/S0/W0/C1	2500 PSI
EXPOSED FOUNDATION WALLS ^A	F2/S0/W0/C1	4500 PSI
PROTECTED FOUNDATION WALLS ^B	F0/S0/W0/C1	4500 PSI
EXPOSED SLAB ON GRADE (UNREINFORCED)	F3/S0/W0/C0	5000 PSI
EXPOSED SITE CONCRETE (REINFORCED)	F3/S0/W0/C2	5000 PSI
PROTECTED SLAB ON GRADE ^B	F0/S0/W0/C0	3500 PSI
POST-TENSIONED SLABS AND BEAMS	F3/S0/W0/C2	5000 PSI
EXPOSED CONCRETE PIERS/COLUMNS	F3/S0/W0/C2	5000 PSI
PROTECTED PIERS/COLUMNS ^B	F0/S0/W0/C0	5000 PSI
EXPOSED SLAB ON METAL DECK	F2/S0/W0/C2	5000 PSI
PROTECTED SLAB ON METAL DECK ^B	F0/S0/W0/C0	2500 PSI

NOTES

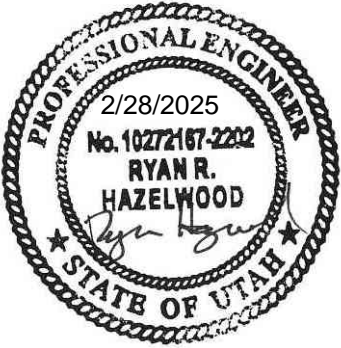
- A. WHEN PROJECT IS IN A LOCATION WITH NO POTENTIAL FOR GROUND FREEZING, EXTERIOR FOUNDATION WALLS MAY USE F0 EXPOSURE CLASS CONCRETE AS AN ALTERNATE TO WHAT IS LISTED IN THE SCHEDULE ABOVE. REFER TO FOUNDATION NOTES SECTION FOR GROUND FREEZING INFORMATION. GC SHALL RECEIVE APPROVAL FOR SUBSTITUION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- B. FOR THE PURPOSES OF THE SCHEDULE ABOVE, "PROTECTED" IS DEFINED AS CONCRETE THAT IS NOT EXPOSED TO THE OPEN AIR AND/OR WEATHERING EFFECTS, INCLUDING POOLING WATER.

GENERAL NOTES

- VERIFY FIELD CONDITIONS AND COORDINATION WITH THE PROJECT DOCUMENTS PRIOR TO PROCEEDING WITH THE WORK.
- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCY OR INCONSISTANCY.
- DO NOT SCALE DRAWINGS FOR PURPOSES OF SHOP DRAWINGS OR CONSTRUCTION.
- DRAWINGS MAY BE SCALED FOR THE PURPOSE OF ESTIMATING MEMEBER LENGTH FOR PROJECT BIDDING.
- ALL WORK SHALL CONFORM TO THE BUILDING CODE EDITION LISTED IN THE DESIGN BASIS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH THE ARCHITECTURAL, CIVIL, AND MEP CONTRACT DOCUMENTS.
- IN CASE OF CONFLICT BETWEEN DRAWINGS AND/OR SPECIFICATIONS AND OTHER DESIGN DISCIPLINES, CONTRACTOR SHALL NOTIFY THE DESIGN TEAM AND OBTAIN CLARIFICATION BEFORE PROCEEDING.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE REACHES ITS FINAL SUPPORT CONDITION.
- THE CONTRACTOR IS SOLELY REPSONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF TEMPORARY BRACING AND SHORING/CONSTRUCTION SUPPORTS FOR NEW AND EXISTING STRUCTURES AS NECESSARY TO COMPLETE THE PROJECT.
- WHEN PROVIDED, THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS.
- APPLY DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS WHERE CONDITIONS ARE SIMILAIR TO THOSE INDICATED BY DETAILS, DETAIL TITLES, OR NOTES.
- CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT AND/OR ENGINEER BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS.
- CONTRACTOR IS REPSONSIBLE FOR COORDINATING AND EXECUTING THE MEANS AND METHODS OF CONSTRUCTION IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE CONSTRUCTION SEQUENCING WITHIN THE TIMELINE OF THE PROJECT. IF STRUCTURAL ELEMENTS ARE NOT COMPATIBLE WITH CONSTRUCTION SEQUENCING NEEDS, CONTACT THE EOR PRIOR TO MAKING MODIFICATIONS.

DRAWING LIST

SHEET NUMBER	DRAWING NAME
S0.0	GENERAL NOTES
S0.1	SCHEDULES AND DETAIL
S1.0	FOUNDATION PLAN



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SUGARHOUSE PARK - BIG FIELD

SUGARHOUSE PARK
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CLIENT

PLAYSPACE DESIGNS

No.	Description	Date
	PERMIT	02-28-2025

GENERAL NOTES

PROJECT NUMBER	25-039	S0.0
DATE	2/28/2025	
DRAWN BY	SWS	
APPROVED BY	RRH	Scale 1" = 1'-0"

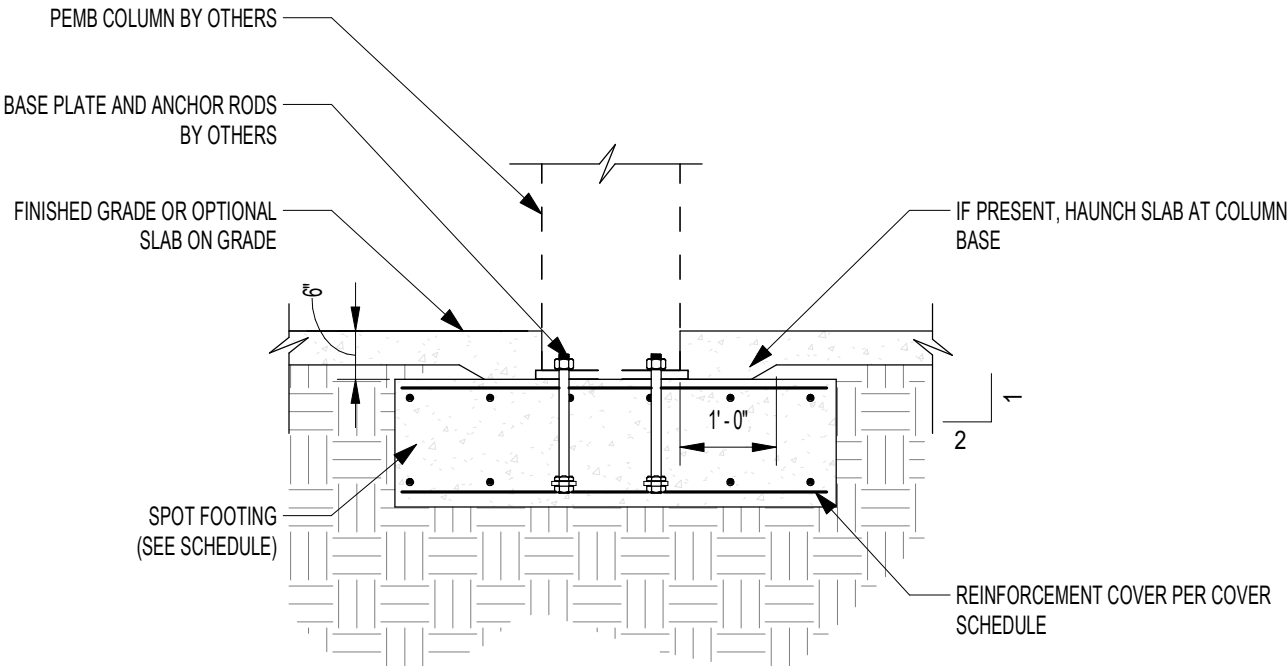
ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ARCH	ARCHITECT
ASD	ALLOWABLE STRESS DESIGN
AWS	AMERICAN WELDING SOCIETY
BOT	BOTTOM
BOF	BOTTOM OF FOOTING
BRG	BEARING
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
D&E	DRILL AND EPOXY
DBA	DEFORMED BAR ANCHORS
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
DWLS	DOWELS
(E)	EXISTING
EA	EACH
EF	EACH FACE
EL	ELEVATION
EOR	ENGINEER OF RECORD
EQ	EQUAL
EW	EACH WAY
(F)	FUTURE
FND	FOUNDATION
FT	FEET
FTG	FOOTING
HORIZ	HORIZONTAL
IBC	INTERNATIONAL BUILDING CODE
IN	INCH
K	KIP
LRFD	LOAD RESISTANCE FACTOR DESIGN
LWC	LIGHT WEIGHT CONCRETE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
PSF	POUNDS PER SQUARE FEET
PSI	POUNDS PER SQUARE INCH
REF	REFERENCE
REINF	REINFORCING
SIM	SIMILAR
SOG	SLAB-ON-GRADE
T&B	TOP AND BOTTOM
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TOF	TOP OF FOOTING
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

CONCRETE LAP SPLICE SCHEDULE

	F'c=3000 PSI	F'c=3500 PSI	F'c=4000 PSI	F'c=4500 PSI	F'c=5000 PSI
BAR SIZE	TYP/TOP (IN)	TYP/TOP (IN)	TYP/TOP (IN)	TYP/TOP (IN)	TYP/TOP (IN)
#3	17/22	16/20	15/19	14/18	13/17
#4	22/29	21/27	19/25	18/24	17/23
#5	28/36	26/33	24/31	23/30	22/28
#6	33/43	31/40	29/37	27/35	26/34
#7	48/63	45/58	42/54	40/51	38/49

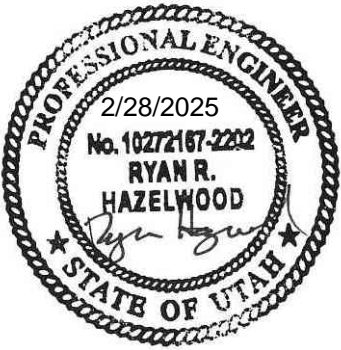
- NOTES:
- ALL LAP SPLICES ARE CLASS B
 - HORIZONTAL BARS WHERE 12" OR MORE OF FRESH CONCRETE IS CAST BELOW SHALL BE CONSIDERED "TOP"



1 FOOTING DETAIL

BAR COVER

ITEM	
CAST AGAINST EARTH	3"
SLABS ON GRADE	1 1/2"
FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER AT SLABS, WALL, AND JOISTS	3/4"
FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER AT BEAMS, COLUMNS, PRIMARY REINFORCEMENT (TIES, STIRRUPS, AND SPIRALS)	1 1/2"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER #5 AND SMALLER	1 1/2"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER #6 THRU #18	2"



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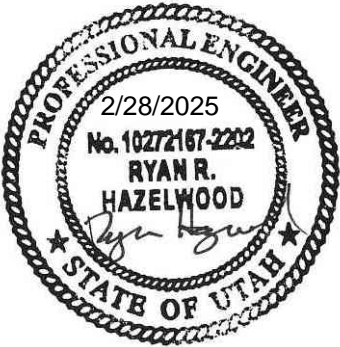
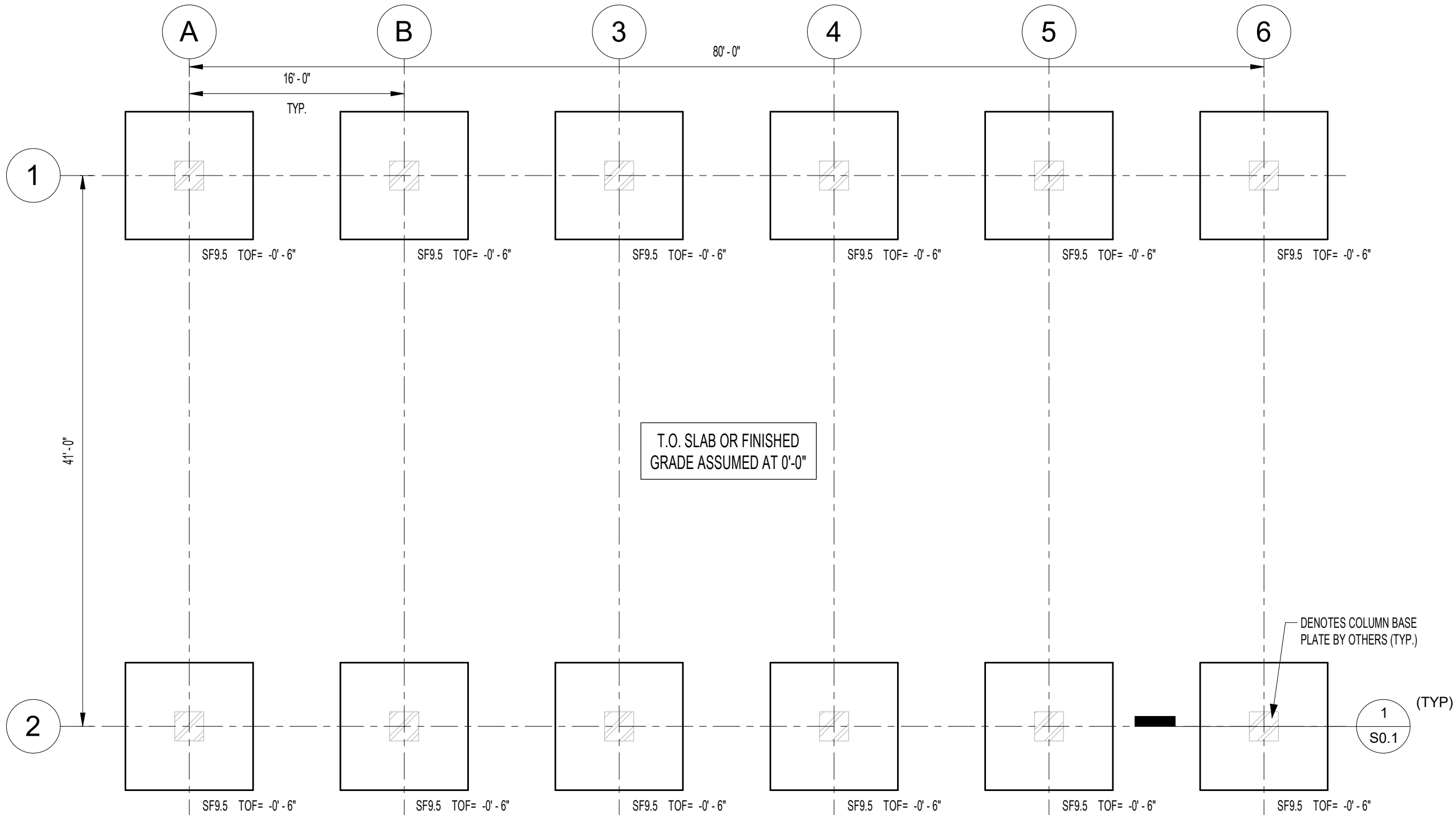
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No.	Description	Date
	PERMIT	02-28-2025

SCHEDULES AND DETAIL

PROJECT NUMBER	25-039	S0.1
DATE	2/28/2025	
DRAWN BY	SWS	
APPROVED BY	RRH	Scale As indicated



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

PLAN NOTES:

- SEE S0 SERIES FOR GENERAL NOTES AND TYPICAL DETAILS.
- ALL DIMENSIONS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS.
- SF2.0 - INDICATES SPREAD FOOTING TYPE. SEE SCHEDULE FOR SIZE AND REINFORCING. ALL FOOTINGS EXPOSED TO FREEZE/THAW SHALL BEAR A MINIMUM OF 2'-6" BELOW GRADE OR MORE DEPENDING ON LOCAL JURISDICTION

SPOT FOOTING SCHEDULE

TYPE	DIMENSIONS			REINFORCEMENT	REINFORCEMENT	COMMENTS
	THICKNESS	LENGTH	WIDTH	(NO.) SIZE	LOCATION	
SF9.5	26"	9' - 6"	9' - 6"	(13) #6	TOP AND BOTTOM	



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S1.0

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