

SOUTH VALLEY WATER RECLAMATION FACILITY

SOLIDS HOLDING TANK REFURBISHMENT PROJECT

VOLUME 2 - 100% DESIGN DRAWINGS MAY, 2023

SOUTH VALLEY WATER RECLAMATION FACILITY
TAIGON WORTHEN - FACILITY ENGINEER / ASSISTANT GM

DESIGN TEAM

JOHN MATTA, PE, PRINCIPAL - WATER WORKS ENGINEERS

JENNY CALDERON, PE, PROJECT MANAGER - WATER WORKS ENGINEERS

FOR INFORMATION REGARDING THIS PROJECT CONTACT:

JENNY CALDERON 385-288-1465

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

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NO DATE REVISION

BY APVD

JOHN H. MATTA
NO.8169064-22028 TO
05/22/2023 **





SOUTH VALLEY WATER RECLAMATION FACILITY SOLIDS HANDLING DAY TANK

GENERAL

TITLE PAGE

MAY 2023

PROJECT NO.
22-097

DRAWING NO.

G-1

SHEET NO.

1 OF 20

LOGAN PROJECT LOCATION SALT LAKE CITY PROJECT LOCATION South Jordan RICHFIELD MOAB BEAVER ST. GEORGE KANAB GENERAL **VERIFY SCALE** MAY 2023 SOUTH VALLEY WATER PROJECT NO. JENNIFER CALDERON 12284243-2202 5/22/2023 BAR IS ONE INCH ON RECLAMATION FACILITY ORIGINAL DRAWING VICINITY AND LOCATION MAP 22-097 SOLIDS HANDLING DRAWING NO. G-2 IF NOT ONE INCH ON DAY TANK THIS SHEET, ADJUST SHEET NO. SCALES ACCORDINGLY NO DATE REVISION 2 OF 20 1955 W. GROVE PARKWAY, PLEASANT GROVE, UT 84062 FILENAME: L:\CAD\PROJECTS\22-097 SOUTH VALLEY WRF AS-NEEDED\07 DRAWINGS\G-2 (SITE AND VICINITY).DWG

DRAWING INDEX

M10-4

DISCIPLINE/ DRAWING SHEET NUMBER TITLE NUMBER **GENERAL** TITLE PAGE G-1 G-2 VICINITY AND LOCATION MAPS G-3 DRAWING INDEX G-4 GENERAL ABBREVIATIONS G-5 GENERAL DESIGNATIONS **DEMOLITION** D10-1 SOLIDS HOLDING DAY TANK STRUCTURAL PLAN SOLIDS HOLDING DAY TANK STRUCTURAL SECTION D10-2 D10-3 SOLIDS HOLDING DAY TANK MECHANICAL PLAN STRUCTURAL GS-1 STRUCTURAL NOTES NO. 1 GS-2 STRUCTURAL NOTES NO. 2 GS-3 STRUCTURAL DETAILS 12 S10-1 SOLIDS HANDLING DAY TANK ADHESIVE ANCHORS PLAN 13 S10-2 SOLIDS HOLDING DAY TANK SECTION **MECHANICAL** GM-1 LEGEND AND NOTES GM-2 STANDARD DETAILS 1 GM-3 STANDARD DETAILS 2 SOLIDS HOLDING DAY TANK PLAN 1 M10-1 M10-2 SOLIDS HOLDING DAY TANK PLAN 2 M10-3 SOLIDS HOLDING DAY TANK SECTIONS 1

SOLIDS HOLDING DAY TANK SECTIONS 2

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PROJECT NO.
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GENERAL ABBREVIATIONS

VERIFY SCALE

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	DEFINITION	ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
	AT	GALV	GALVANIZED	R, RAD	RADIUS
	CELSIUS	GL	GLASS	RDCR	REDUCER
	DEGREE FAHRENHEIT	GPD	GALLONS PER DAY	REF	REFER, REFERENCE
	AERATION AGGREGATE BASE, ANCHOR BOLT	GPH	GALLONS PER HOUR	REQD	REQUIRED
	ASPHALTIC CONCRETE, ASBESTOS CEMENT	GPR	GROUND PENETRATING RADAR	RJ	RESTRAINED JOINT
l	AMERICAN CONCRETE INSTITUTE				
U	AIR CONDITIONING UNIT	GPM	GALLONS PER MINUTE	RM	ROOM
D	ADDITIONAL	GSP	GALVANIZED STEEL PIPE	RT	RIGHT
_ J	ADJACENT, ADJUSTABLE	GW	GROUND WATER	S	I-BEAM, SOUTH, SLOPE, STRUCTURAL
F	ABOVE FINISH FLOOR	HDPE	HIGH DENSITY POLYETHLENE	SCFH	STANDARD CUBIC FEET PER HOUR
G	ABOVE FINISH GRADE	HGL	HYDRAULIC GRADE LINE	SCFM	STANDARD CUBIC FEET PER MINUTE
SC .	AMERICAN INSTITUTE OF STEEL CONSTRUCTION				
ALUM	ALUMINUM	HORIZ	HORIZONTAL	SCH	SCHEDULE
Γ	ALTERNATE	HPT	HIGH POINT, HYDROPNEUMATIC TANK	SE	SOUTHEAST
SI	AMERICAN NATIONAL STANDARDS INSTITUTE	HWL	HIGH WATER LEVEL	SEC	SECONDARY
PROX	APPROXIMATE	HWY	HIGHWAY	SECT	SECTION
VD	APPROVED	I&C	INSTRUMENTATION AND CONTROL	SH	SHEET
NA NA	AMERICAN PUBLIC WORKS ASSOCIATION	ID	INSIDE DIAMETER	SIM	SIMILAR
CH, A	ARCHITECTURAL				
TM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	IE	INVERT ELEVATION	SP	SPACE, SPACES
TO X	AUTOMATIC AUXILIARY	IF	INSIDE FACE	SPEC	SPECIFICATION
x WA	AMERICAN WATER WORKS ASSOCIATION	IN	INCH	SQ	SQUARE
VA DG	BUILDING	INSUL	INSULATE, INSULATION	SQ FT	SQUARE FOOT
ζ	BLACK	INV	INVERT	SQ IN	SQUARE INCH
Γ	BOTTOM				
D	BYPASS	IP	IRON PIPE	SST	STAINLESS STEEL
M	CUBIC FEET PER MINUTE	L	LEFT, ANGLE, LENGTH	STD	STANDARD
S	CUBIC FEET PER SECOND	LAB	LABORATORY	STL	STEEL
EM	CHEMICAL	LB	POUNDS	STR	STRAIGHT
	CENTERLINE	LB/CU FT	POUNDS PER CUBIC FOOT	STRUCT	STRUCTURE, STRUCTURAL
R	CLEAR, CLEARANCE	LF	LINEAR FEET	SUSP	SUSPEND
SM	CONTROLLED LOW STRENGTH MATERIAL				
MB	COMBINED	LR	LONG RADIUS	SW	SOUTHWEST
NC	CONCRETE	LWL	LOW WATER LEVEL	Т	TANGENT, TELEPHONE LINE, TOP
NN NT	CONTINUOUS CONTINUATION	MAX	MAXIMUM	t, T	THICKNESS
NT	CONTINUOUS, CONTINUATION	MCC	MOTOR CONTROL CENTER	TECH	TECHNICAL
ORD R	COORDINATE	MECH	MECHANICAL	TEL	TELEPHONE
RD, CTD	CENTER CENTERED	MFR		TEMP	TEMPORARY, TEMPERATURE
FT, CF	CUBIC FOOT		MANUFACTURER		
IN	CUBIC INCH	MGD	MILLION GALLONS PER DAY	THD	THREAD
YD	CUBIC YARD	MIN	MINIMUM, MINUTE	THK	THICK
4	DEFORMED BAR ANCHOR, A-WEIGHTED DECIBELS	MISC	MISCELLANEOUS	TNK	TANK
<u>.</u>	DOUBLE	MPH	MILES PER HOUR	TOC	TOP OF CURB, TOP OF CONCRETE
_ \	DIAMETER	MSP	MILL STEEL PIPE, MANUAL OF STANDARD PRACTICE	TOW	TOP OF WALL
\G	DIAGONAL				
Л	DIMENSION	MWS	MAXIMUM WATER SURFACE	TRANS	TRANSITION
₹	DIRECTION	N	NORTH	TSL	THICKENED SLUDGE
ST	DISTANCE	NC	NORMALLY CLOSED	TURB	TURBIDITY
	DOWN	NE	NORTHEAST	TYP	TYPICAL
-	DETAIL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	UBC	UNIFORM BUILDING CODE
G	DRAWING	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	UG	UNDERGROUND
	EAST, ELECTRIC, ELECTRICAL				
	EACH	NIC	NOT IN CONTRACT	UH	UNIT HEATER
C	ECCENTRIC EACH FACE, EXHAUST FAN	NO	NORMALLY OPEN, NUMBER	UNK	UNKNOWN
	ELEVATION	NPT	NATIONAL PIPE THREAD	UNO	UNLESS NOTED OTHERWISE
3, ELL	ELBOW	NTS	NOT TO SCALE	V	VENT, VOLT, VALVE
GR	ENGINEER	NW	NORTHWEST	VAC	VACUUM
DM	ETHYLENE PROPYLENE DIENE MONOMER				
PT, EQUIP	EQUIPMENT	OD	OUTSIDE DIAMETER	VERT	VERTICAL
2	EXCAVATE	OF	OUTSIDE FACE, OVERFLOW	VFD	VARIABLE FREQUENCY DRIVE
D	EXPOSED, EXPANSION	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	W	WIDE FLANGE (BEAM), WEST, WATER
ST	EXISTING	OG	ORIGINAL GROUND	W/	WITH
KT	FIRE EXTINGUISHER	OPNG	OPENING	WP	WATER PROOF
	FINISH FLOOR	OPP	OPPOSITE	WR	WATER RESISTANT
	FINISH GRADE	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	WS	WATER SURFACE, WATER STOP
i	FIGURE	OZ	OUNCE	WSE	WATER SURFACE ELEVATION
	FLOOR, FLOW LINE	PE	PLAIN END, POLYETHYLENE	WWS	WALL WASH SYSTEM (UTILITY WATER)
	FLOW METER	PL	PLATE, PROPERTY LINE		·
С	FACE OF CONCRETE	PPM	PARTS PER MILLION	XMFR	TRANSFORMER
	FIBERGLASS REINFORCED PLASTIC				
		PREFAB	PREFABRICATED		
	FINISHED SURFACE, FLOW SWITCH	PRESS	PRESSURE		
6	FOAM SPRAY SYSTEM (UTILITY WATER)	PRI	PRIMARY		
	FOOT OR FEET	PROP	PROPERTY		
D	FORWARD				
		PS	PUMP STATION		
	GAGE	PSF	POUNDS PER SQUARE FOOT		
C	GRANULAR ACTIVATED CARBON	PSI	POUNDS PER SQUARE INCH		

NOTES:

- 1. THESE ARE GENERAL ABBREVIATIONS, NOT ALL ABBREVIATIONS MAY BE USED.
- 2. SEE DRAWINGS FOR EACH DISCIPLINE FOR DISCIPLINE-SPECIFIC ABBREVIATIONS, WHICH MAY DIFFER THAN THOSE SHOWN ON THIS DRAWING.

GENERAL

SOUTH VALLEY WATER

RECLAMATION FACILITY

SOLIDS HANDLING

DAY TANK

GENERAL ABBREVIATIONS

MAY 2023

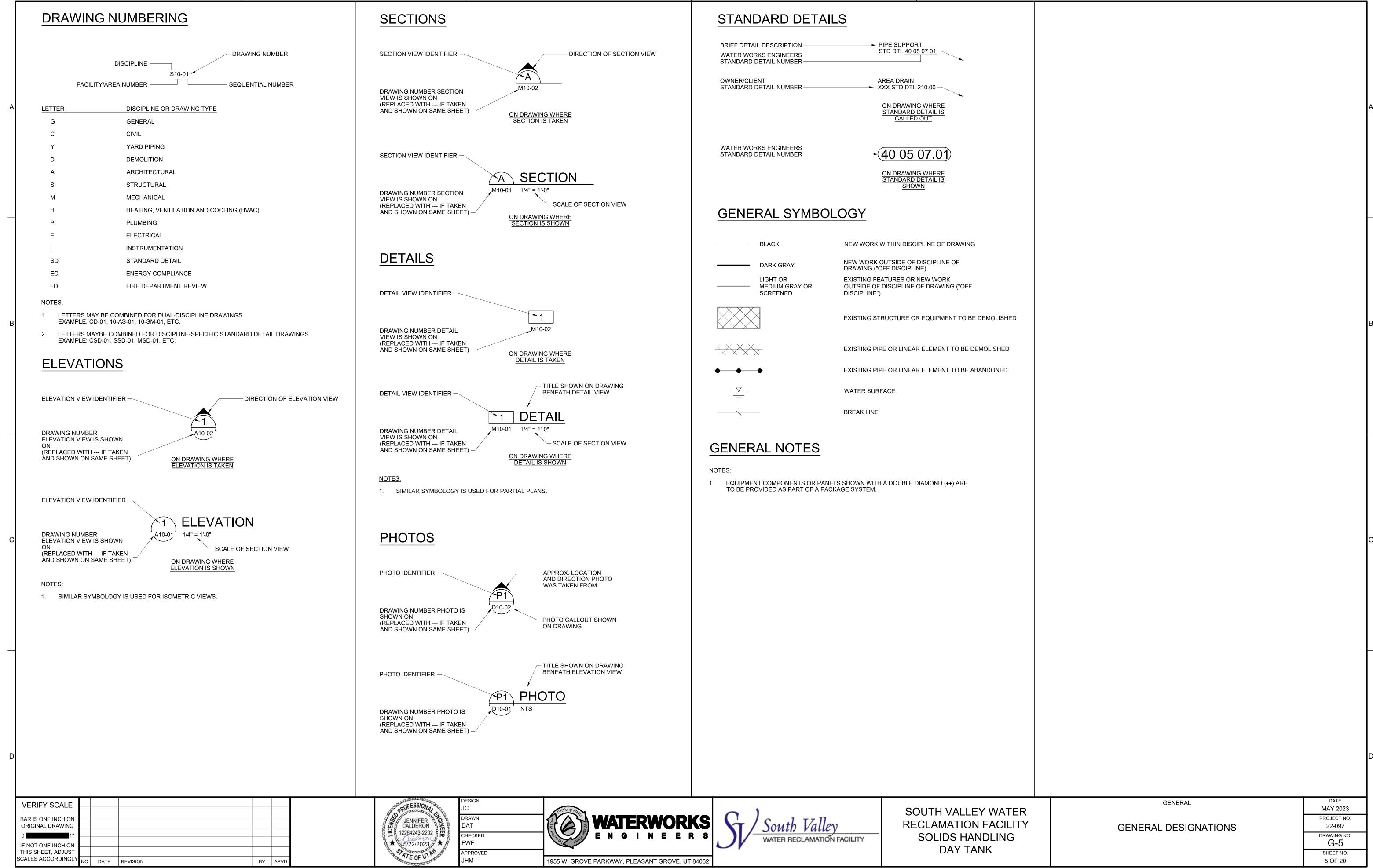
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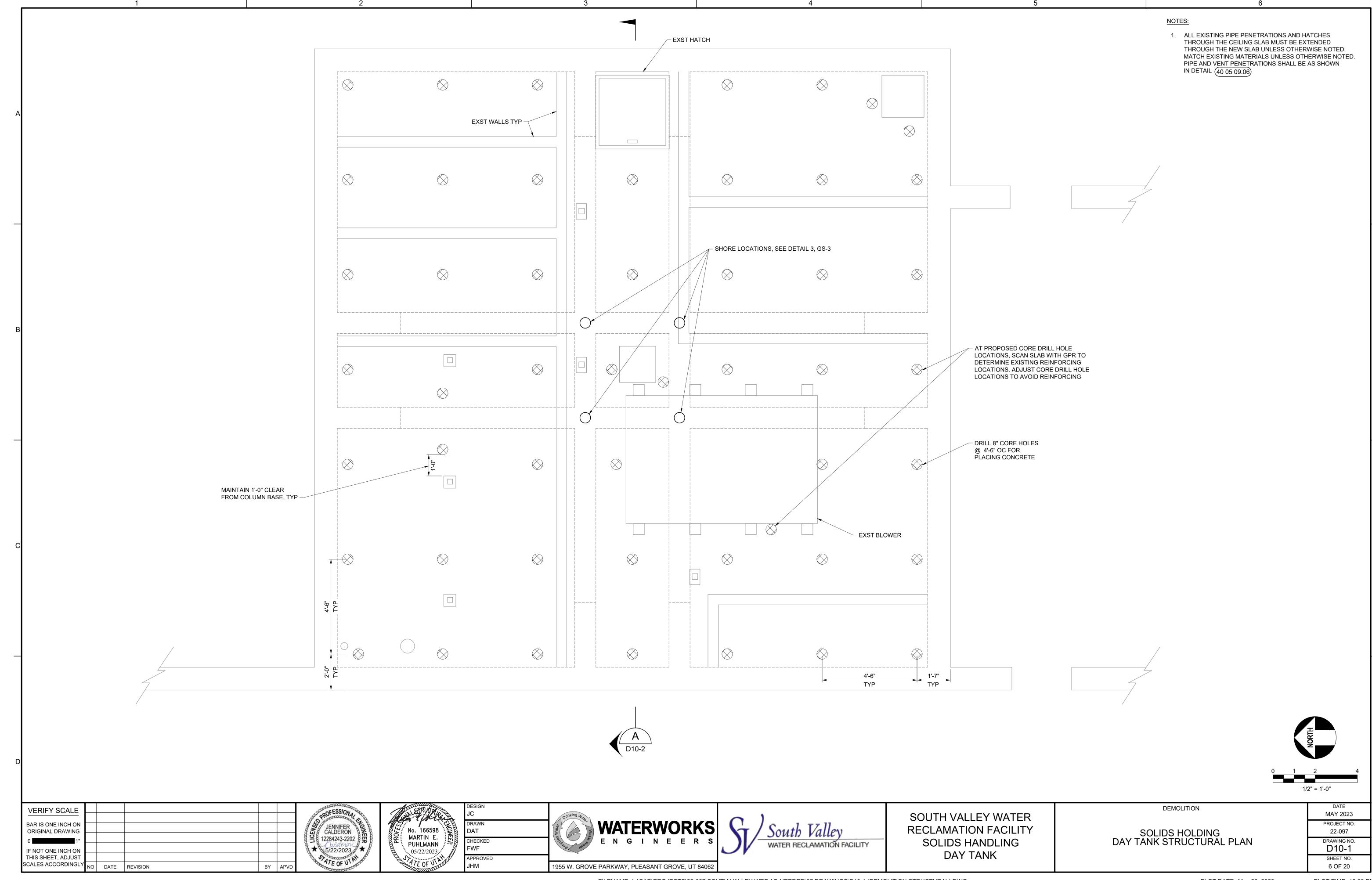
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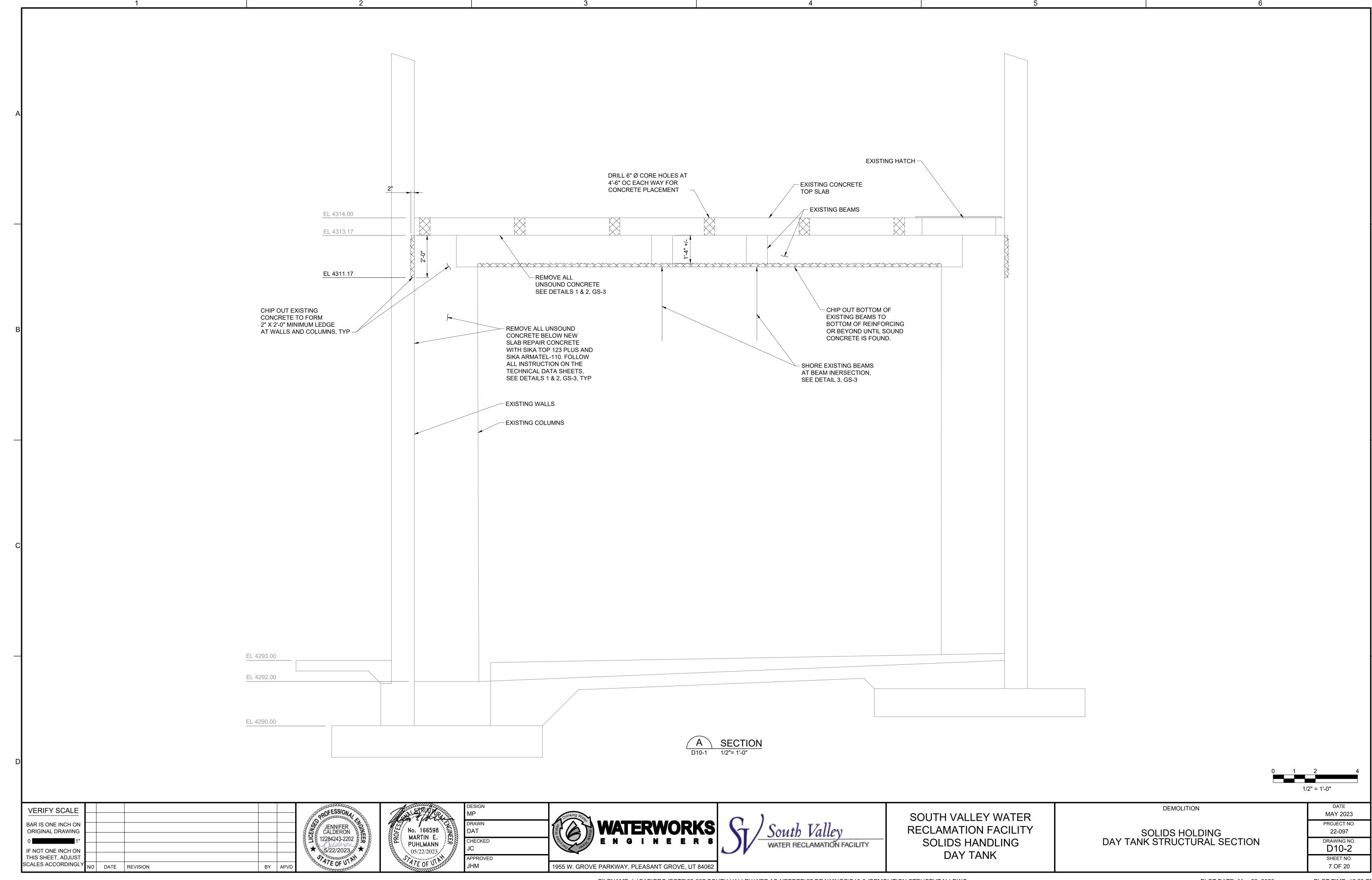
G-4

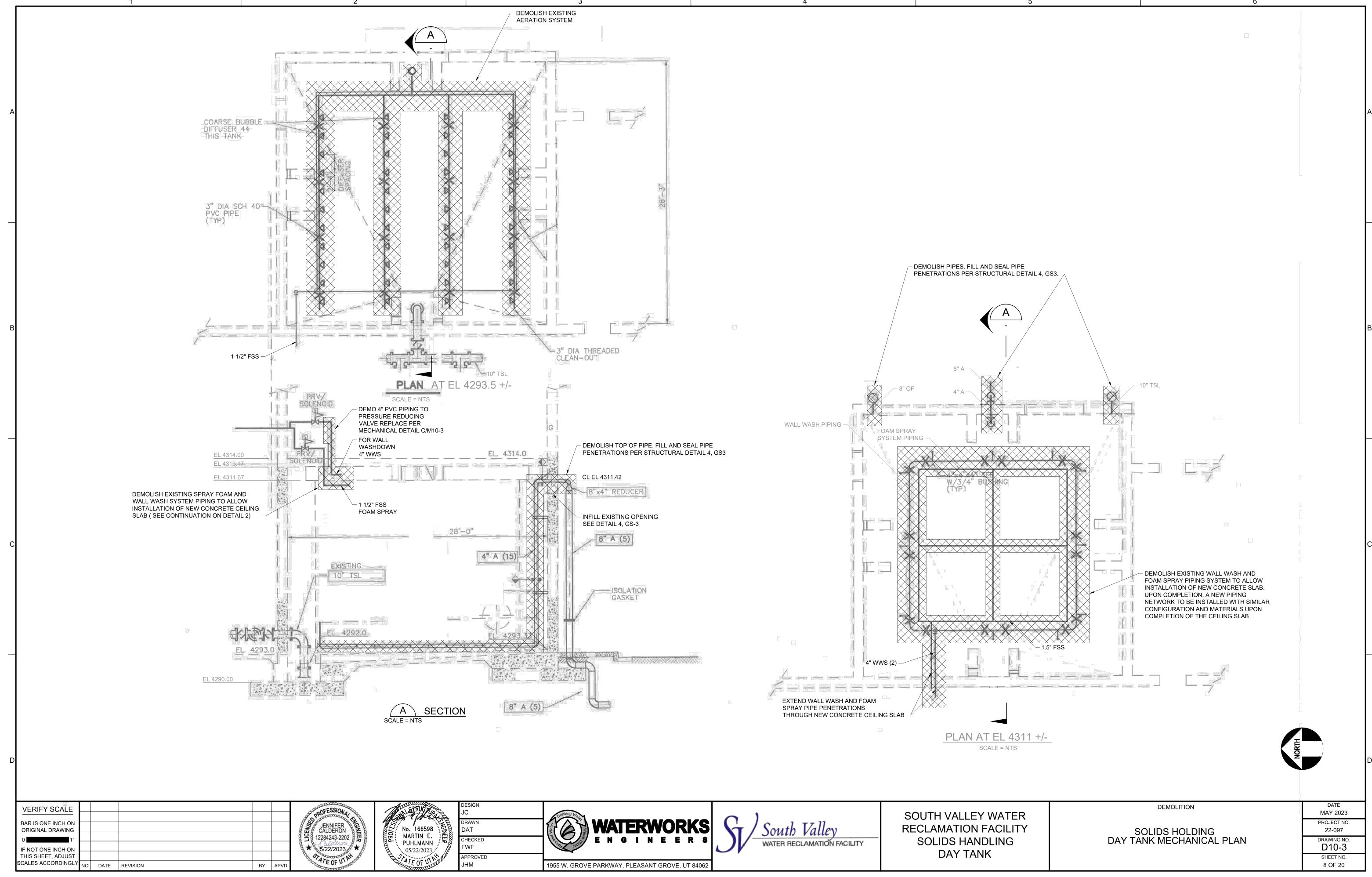
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DESIGN CRITERIA

- APPLICABLE CODE: 2018 INTERNATIONAL BUILDING CODE (IBC), AS AMENDED BY WEST JORDAN CITY.
- 2. REFER TO THE SPECIFICATIONS FOR ADDITIONAL AND SPECIFIC STRUCTURAL LOADINGS AND REQUIREMENTS.
- FLOOR LOAD:
 - FLOOR 125 psf
- WIND LOAD:
 - RISK CATEGORY BASIC WIND SPEED (ASCE 7-16) 110 mph
 - **EXPOSURE CATEGORY**
 - DIRECTIONAL PROCEDURE DESIGN METHOD
- SEISMIC LOAD:
- RISK CATEGORY IMPORTANCE FACTOR I_e 1.25 S_{DS}: 1.056 S_s: 1.32 S₁: 0.463
- SITE CLASS SEISMIC DESIGN CATEGORY

GENERAL INFORMATION:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE BUILDING CODE.
- DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO ALL SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE KEYED IN EACH LOCATION. CONSULT THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- VERIFY ALL OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH THE MECHANICAL DRAWINGS
- 4. FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION OF EQUIPMENT PADS AND OPENINGS SEE MECHANICAL DRAWINGS. COORDINATE ALL OPENINGS AND EQUIPMENT PADS WITH OTHER DISCIPLINES AND EQUIPMENT SUPPLIERS PRIOR TO PLACING SLABS, WALLS AND FOUNDATIONS.
- NO STRUCTURAL MEMBER SHALL BE CUT FOR PIPES, DUCTS, ETC UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.

FORMWORK, SHORING AND BRACING:

THE STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. THE DESIGN SHOWN DOES NOT INCLUDE THE NECESSARY COMPONENTS OR EQUIPMENT FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION. THE CONTACTOR IS RESPONSIBLE FOR ALL WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING RIGGING, GUYS SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN. CONSTRUCTION OF SHORING AND BRACING OF FORMWORK SHALL BE IN ACCORDANCE WITH ACI 347 "GUIDE TO FORMWORK FOR CONCRETE".

CONCRETE:

- STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4.000 PSI AT 28 DAYS AND A SLUMP AS SPECIFIED IN SECTION 03300 - CAST-IN-PLACE CONCRETE
- 2. THE CONTRACTOR SHALL SUBMIT THE CONCRETE MIX DESIGNS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO USE.
- PLACEMENT OF PIPES, CONDUITS OR OTHER EMBEDDED ITEMS IN THE CONCRETE SHALL BE IN ACCORDANCE WITH THESE DRAWINGS OR SHALL BE APPROVED BY THE ENGINEER.
- NO ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.
- CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
- 6. THE REQUIREMENTS FOR CONCRETE MIXES, PLACING, TESTING AND CURING ARE CONTAINED IN THE PROJECT SPECIFICATIONS.
- PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE II, AGGREGATE SHALL CONFORM TO ASTM
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER AT LEAST 48 BUSINESS HOURS NOTICE PRIOR TO THE PLACEMENT OF CONCRETE TO ALLOW SUFFICIENT TIME FOR INSPECTIONS AND SCHEDULING OF TESTING SERVICES.

CONCRETE REINFORCING:

- CLEARANCE FOR REINFORCEMENT BARS, UNLESS SHOWN OTHERWISE, SHALL BE: SURFACES OF PRIMARY AND SECONDARY LIQUID CONTAINING STRUCTURES = 2".
- 2. ALL BENDS, UNLESS OTHERWISE SHOWN, SHALL BE 90 DEGREE ACI 318 STANDARD HOOKS.

ALL REINFORCING BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:

CONCRETE	E DESIGN STRENG	GTH = 4,0	00 PSI #		GRADE	E 60 REIN	NFORCED	STEEL
BAR SIZE		#4	#5	#6	#7	#8	#9	#10
LAP SPLICI	E LENGTH							
	TOP BAR *	2'-8"	3-'4"	4'-0"	5'-10"	6'-8"	7'-7"	8'-6"
	OTHER BAR	2'-1"	2'-7"	3'-1"	4'-6"	5'-2"	5'-10"	6'-7"

TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE.
- 2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATION:
 - HOLLOW STRUCTURAL SECTIONS: A500 GRADE B MINIMUM F_v = 46 ksi
 - PIPE: A53 GRADE B MINIMUM $F_y = 35$ ksi
 - WIDE FLANGE SECTIONS: A992 MINIMUM $F_y = 50$ ksi
 - PLATES, ANGLES, AND CHANNELS: A36 MINIMUM F_y = 36 ksi
- 3. OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.
- 4. STRUCTURAL STEEL SHALL BE FREE OF EXCESSIVE RUST, MILL SCALE OR GREASE.
- 5. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND SHALL CONFORM TO THE REQUIREMENTS OF IBC SECTION 2204 AND THE AMERICAN WELDING SOCIETY (AWS), LATEST EDITION, AS FOLLOWS:
 - D1.1, STRUCTURAL WELDING CODE STEEL
 - D1.2, STRUCTURAL WELDING CODE ALUMINUM
 - D1.4, STRUCTURAL WELDING CODE REINFORCING STEEL
 - D1.6, STRUCTURAL WELDING CODE STAINLESS STEEL
- WELDING ELECTRODES SHALL BE THE FOLLOWING TYPES: E70XX.
- 7. ALL FILLET WELDS SHALL BE AISC MINIMUM AND BUTT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS INDICATED OTHERWISE.
- 8. ALL BOLTS SHALL BE HIGH-STRENGTH ASTM A325X UNLESS NOTED OTHERWISE. ALL HIGH-STRENGTH BOLTED CONNECTIONS SHALL BE ASSUMED TO BE SNUG-TIGHTENED JOINTS.
- DISTANCE FROM EDGE OF PLATE TO CENTER OF BOLT SHALL BE 1 1/2" UNO.
- 10. INSTALLATION AND INSPECTION OF HIGH STRENGTH BOLTS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST AISC SPECIFICATION, SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS (RCSC). CONTACT FACES OF STEEL AT CONNECTIONS WHERE HIGH STRENGTH SNUG-TIGHTENED BOLTS ARE USED MAY BE PAINTED. CONTACT FACES OF SLIP CRITICAL CONNECTIONS SHALL MEET THE REQUIREMENTS FOR CLASS B FAYING SURFACES. COATED FAYING SURFACES, WHEN SPECIFIED, SHALL BE QUALIFIED IN ACCORDANCE WITH CLASS A COATING.
- 11. THE STRUCTURAL STEEL FABRICATOR/CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO FABRICATION.

STAINLESS STEEL

- STAINLESS STEEL MEMBERS SHALL CONFORM TO ASTM SPECIFICATIONS:
 - PLATES:
 - STRUCTURAL SHAPES: A276, A479 OR A1069
- FASTENERS AND FITTINGS: DEFORMED AND PLAIN BARS:
- 2. ALL COMPONENTS SHALL BE STAINLESS STEEL TYPE 316, UNLESS SHOWN OTHERWISE.
- 3. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWS D1.6. WELDERS SHALL HOLD VALID CERTIFICATES ISSUED BY AN ACCEPTED TESTING AGENCY WITHIN THE LAST 12 MONTHS.
- 4. ALL FILLET WELDS SHALL BE AWS MINIMUM AND BUTT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP), UNLESS INDICATED OTHERWISE.
- WELDERS SHALL SUBMIT PRE-QUALIFIED WELDS AND WELDING PROCEDURES FOR REVIEW AND TO BE AVAILABLE ON PREMISES FOR REVIEW.
- 6. OPENINGS SHALL NOT BE PLACED IN STAINLESS STEEL MEMBERS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.
- 7. THE STAINLESS STEEL FABRICATOR/CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF ALL STAINLESS STEEL FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO FABRICATION.

ALUMINUM:

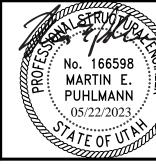
- 1. ALUMINUM CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE ALUMINUM CONSTRUCTION MANUAL OF THE ALUMINUM ASSOCIATION.
- 2. UNLESS OTHERWISE INDICATED. STRUCTURAL ALUMINUM MEMBERS SHALL BE ALLOY 6061-T6.
- 3. WHERE ALUMINUM IS IN CONTACT WITH CONCRETE OR MASONRY SURFACES, CONTACT SURFACES SHALL BE COATED WITH HEAVY ALKALI-RESISTANT BITUMINOUS PAINT.
- GRATING AND CHECKERED PLATE SHALL BE ALUMINUM, UNLESS NOTED OTHERWISE. PROVIDE FULLY BANDED ALUMINUM GRATING WITH NON-SKID SURFACE OVER AREAS INDICATED ON THE DRAWINGS. MATERIAL SHALL BE 6061-T6 OR 6063-T6 PROVIDED WITH AN ANODIZED FINISH AND MEET THE STRENGTH AND DEFLECTION REQUIREMENTS.
- 5. THE ALUMINUM FABRICATOR/CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF ALL ALUMINUM MEMBERS AND GRATING FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO FABRICATION.

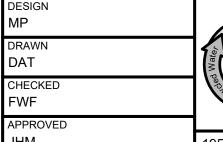
ADHESIVE ANCHORS:

- 1. THE ADHESIVE ANCHOR SYSTEM USED FOR POST-INSTALLED ANCHORAGE TO CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY PUBLISHED ACI 355.4, ACCEPTANCE CRITERIA FOR QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE AND COMMENTARY. THE ANCHOR SYSTEM SHALL BE ONE OF THE FOLLOWING:
- HILTI HIT-HY 200.
- SIMPSON SET-3G...
- 2. ADHESIVE ANCHORS SHALL BE SUPPLIED AS AN ENTIRE SYSTEM INCLUDING, BUT NOT LIMITED TO, THE NEW ADHESIVE CARTRIDGE, A CLEAN MIXING NOZZLE, EXTENSION TUBE, A DISPENSING GUN, AND ALL MANUFACTURER RECOMMENDED SUPPLIES FOR PROPERLY CLEANING THE DRILLED HOLE.
- 3. ALL-THREAD ROD TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES SHALL CONFORM TO ASTM A36, A193 (GR B7), A307, OR F1554. STAINLESS STEEL ANCHOR RODS SHALL BE TYPE 316. NUTS, WASHERS, AND OTHER HARDWARE USED WITH AN ALL-THREAD SHALL HAVE A MATERIAL OR ALLOY DESIGNATION THAT MATCHES THE ALL-THREAD MATERIAL / ALLOY.
- 4. REINFORCING BARS SHALL BE ASTM A615 OR A706.
- 5. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT THE TIME OF ADHESIVE ANCHOR INSTALLATION. CONCRETE SHALL HAVE A MINIMUM AGE OF 21 DAYS AT THE TIME OF ADHESIVE ANCHOR INSTALLATION.
- CONCRETE TEMPERATURE AT THE TIME OF ADHESIVE ANCHOR INSTALLATION SHALL BE WITHIN THE ALLOWABLE TEMPERATURE RANGE SPECIFIED IN THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND ICC REPORT.
- EMBEDMENT DEPTH AND ANCHOR PROJECTION FROM THE CONCRETE SURFACE SHALL BE AS SHOWN ON THE DRAWINGS FOR THE PARTICULAR ANCHOR OR GROUP OF ANCHORS BEING INSTALLED. ABSENT ANY INFORMATION. THE MINIMUM EMBEDMENT DEPTH SHALL BE 12d WHERE "d" IS THE ANCHOR DIAMETER

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST CALES ACCORDINGLY NO DATE REVISION











SOUTH VALLEY WATER RECLAMATION FACILITY SOLIDS HANDLING DAY TANK

STRUCTURAL NOTES NO.1

STRUCTURAL

PROJECT NO. 22-097 DRAWING NO. GS-1 SHEET NO. 9 OF 20

MAY 2023

ADHESIVE ANCHORS (CONT.):

- 8. ADHESIVE ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE SPECIFICATIONS. POST-INSTALLED ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
- 9. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM. THESE ANCHORS ARE DESIGNATED WITH A (CERT) AFTER THE ANCHOR CALL-OUT.
- 10. THE INSTALLER'S QUALIFICATIONS SHALL BE SUBMITTED AND APPROVED IN ACCORDANCE WITH SECTION 05051 OF THE SPECIFICATIONS.
- 11. WHEN DRILLING HOLES IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR.
- 12. SPECIAL INSPECTION IS REQUIRED PER IBC SECTION 1705 AND THE REQUIREMENTS OF THE ICC REPORT. THE SPECIAL INSPECTOR MUST BE PERIODICALLY ON THE JOBSITE DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE, ANCHOR SPACING, AND CONCRETE THICKNESS.
- 13. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY AN INSPECTOR SPECIALLY APPROVED FOR THAT PURPOSE BY THE BUILDING OFFICIAL.

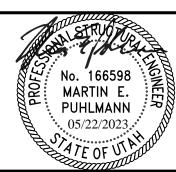
STATEMENT OF SPECIAL INSPECTIONS:

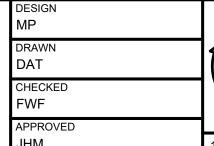
- 1. SPECIAL INSPECTION IS IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 110 OF THE IBC. THE OWNER OR CONTRACTOR SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION ON THE TYPES OF WORK INDICATED BELOW. REFERENCE THE PROJECT SPECIFICATIONS FOR DETERMINATION OF WHO IS RESPONSIBLE TO PAY FOR SPECIAL INSPECTIONS SERVICES AND ASSOCIATED TESTS.
- 2. SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT QUALIFIED PERSON WHO IS ACCEPTABLE TO THE ENGINEER AND BUILDING DEPARTMENT. THE INSPECTORS FOR EACH SYSTEM AND MATERIAL WILL BE ICC CERTIFIED OR OTHERWISE APPROVED BY THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONTRACT DOCUMENTS AND SUBMIT RECORDS OF INSPECTION.
- 3. INSPECTION RECORDS AND TESTING REPORTS SHALL BE SUBMITTED TO THE ENGINEER, OWNER, AND BUILDING OFFICIAL WITHIN ONE WEEK OF INSPECTION OR WITHIN ONE WEEK OF TEST COMPLETION.
- 4. AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF DISCREPANCIES SHALL BE SUBMITTED.
- 5. PERIODIC SPECIAL INSPECTION IS DEFINED AS SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
- 6. SPECIAL INSPECTION IS REQUIRED PER CHAPTER 17 OF THE IBC FOR THE FOLLOWING ITEMS:
 - CONCRETE CONSTRUCTION
 - STEEL CONSTRUCTION
 - ANCHORAGE OF MECHANICAL AND ELECTRICAL COMPONENTS

VEF	RIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	2018 IBC REFERENC
1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDIONS, AND VERIFY PLACEMENT	-	х	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2.a.	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	х	AWS D1.4, ACI 318: 26.6.4	-
2.b.	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	-	×	AWS D1.4, ACI 318: 26.6.4	-
2.c.	INSPECT ALL OTHER REINFORCING BAR WELDS	Х		AWS D1.4, ACI 318: 26.6.4	-
3.	INSPECTION OF ANCHORS CAST IN CONCRETE	-	х	ACI 318: 17.8.2	-
4.a.	INSPECTION OF ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	Х	-	ACI 318: 17.8.2.4	-
4.b.	INSPECTION OF MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	-	х	ACI 318: 17.8.2	-
5.	VERIFYING USE OF REQUIRED DESIGN MIX	-	х	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM: C172, C31 ACI318: 26.5, 26.12	1908.10
7.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	х	ACI 318: 26.5.3-26.5.5	1908.9
9.	INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES B. GROUTING OF BONDED PRESTRESSING TENDONS	X	-	ACI 318: 26.10	-
10.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	-	x	ACI 318: 26.9	-
11.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	x	ACI 318: 26.11.2	-
12.	INSPECTION FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	х	ACI 318: 26.11.1.2(b)	-

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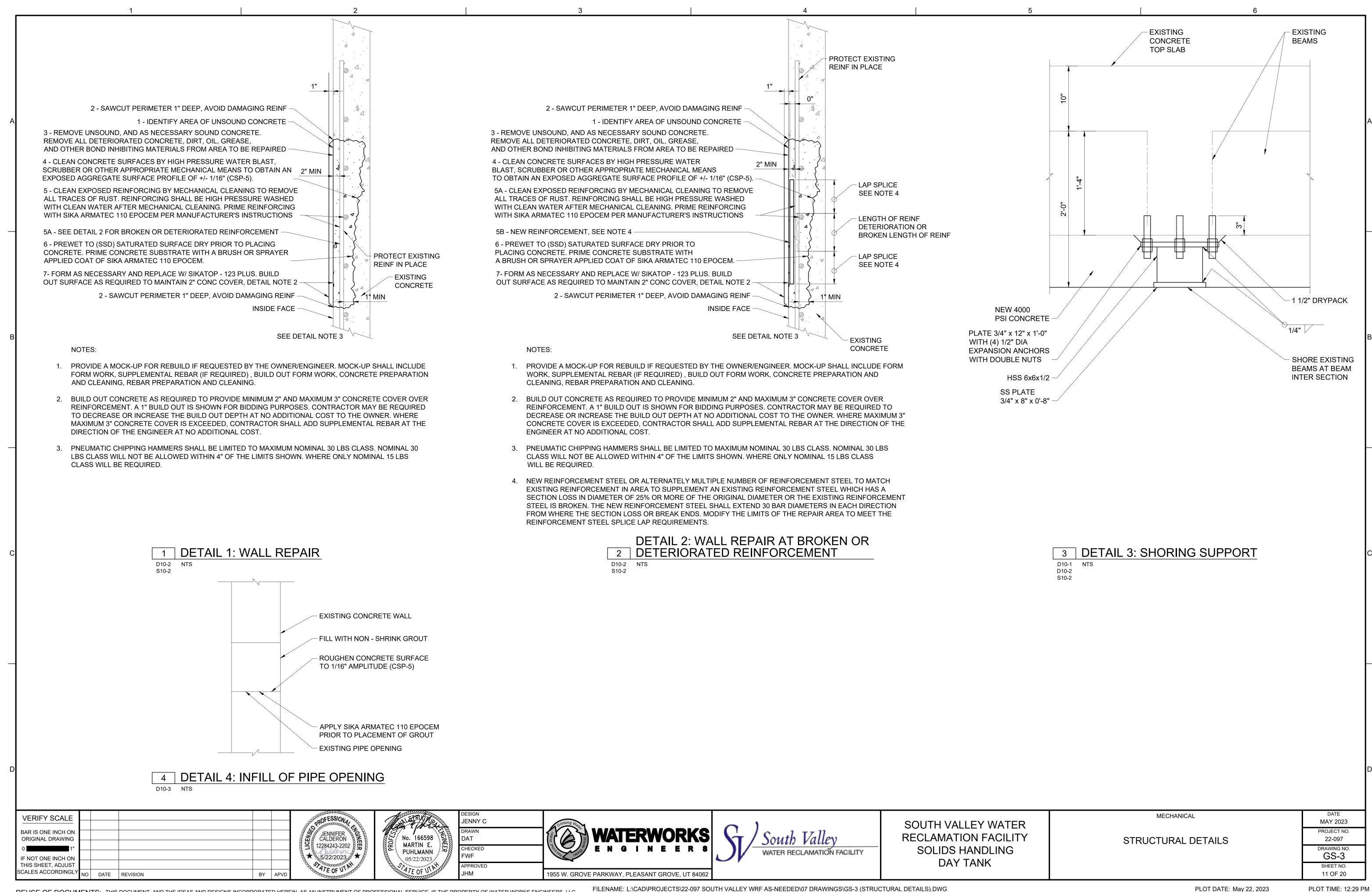


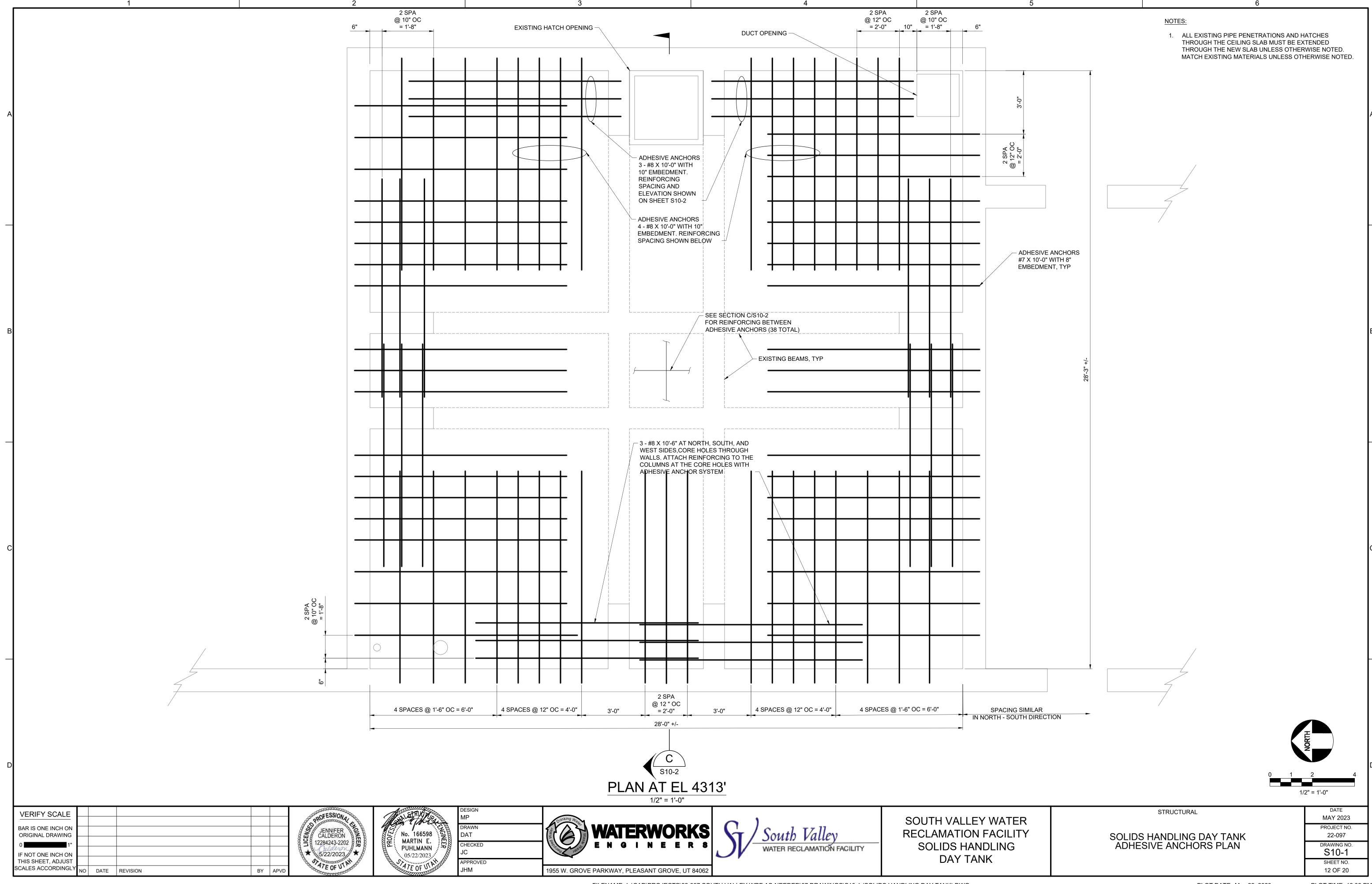
SOUTH VALLEY WATER RECLAMATION FACILITY SOLIDS HANDLING **DAY TANK**

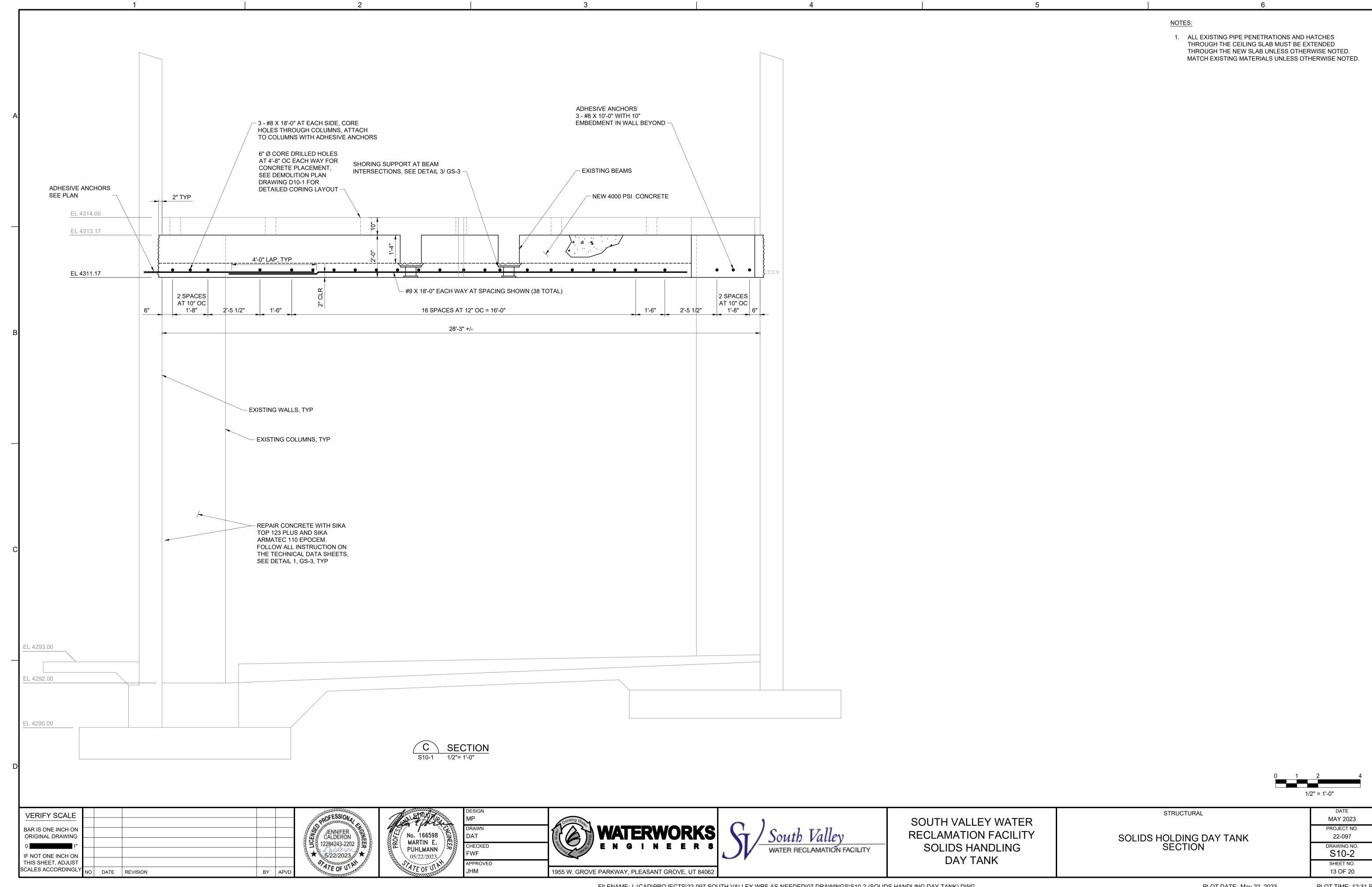
STRUCTURAL NOTES NO.2

STRUCTURAL

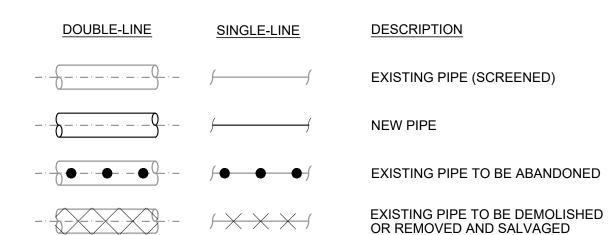
MAY 2023 PROJECT NO. 22-097 DRAWING NO. GS-2 SHEET NO. 10 OF 20





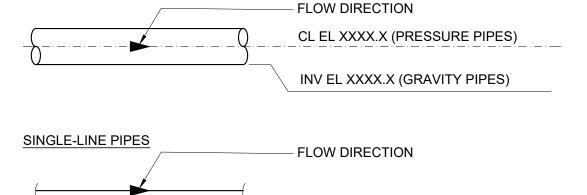


PIPE SYMBOLOGY

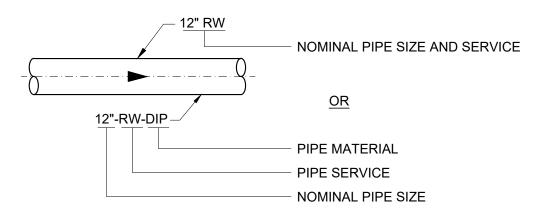


PIPE IDENTIFICATION

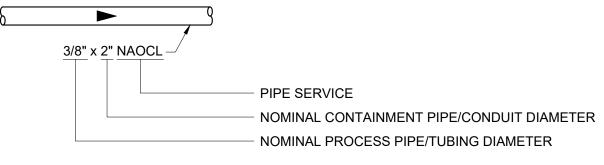
DOUBLE-LINE PIPES



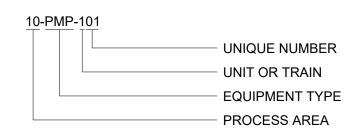
PIPE IDENTIFICATION



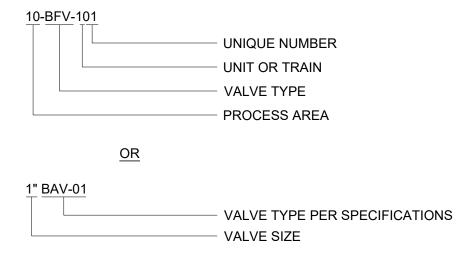
DOUBLE CONTAINED PIPING/TUBING IDENTIFICATION



EQUIPMENT IDENTIFICATION



VALVE IDENTIFICATION



PIPING NOTES

- LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS. MINIMUM COVER SHALL BE 36 INCHES UNLESS OTHERWISE SHOWN.
- SIZE OF FITTINGS SHOWN ON DRAWINGS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.
- LOCATION AND NUMBER OF PIPE HANGERS AND PIPE SUPPORTS SHOWN IS ONLY APPROXIMATE. FINAL SUPPORT REQUIREMENTS SHALL BE DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. MAXIMUM SPACING SHALL BE AS SPECIFIED.
- APPROPRIATE STANDARD WALL PIPE DETAIL SHALL BE USED WHEREVER PIPING PASSES FROM A STRUCTURE TO BACKFILL.
- ALL FLEXIBLE CONNECTORS OR FLANGED COUPLING ADAPTERS SHALL BE PROVIDED WITH THRUST TIES, THRUST BLOCKS, OR ANCHORS, UNLESS OTHERWISE NOTED. THRUST PROTECTION SHALL BE ADEQUATE FOR TEST PRESSURES SPECIFIED.
- SYMBOLS, LEGENDS, AND PIPING IDENTIFIERS SHOWN SHALL BE FOLLOWED THROUGHOUT THE DRAWINGS, WHEREVER APPLICABLE. ALL OF THE VARIOUS APPLICATIONS ARE NOT NECESSARILY USED IN THE PROJECT.
- ALL PIPING SPECIFIED TO BE PRESSURE TESTED, EXCEPT FLANGED. WELDED, GROOVED END, OR SCREWED PIPING, SHALL BE PROVIDED WITH TRUST PROTECTION AT ALL DIRECTION CHANGES, UNLESS OTHERWISE NOTED. SEE THRUST DETAILS AND NOTES ON DRAWINGS.
- NUMBER AND LOCATION OF UNIONS SHOWN ON DRAWINGS ARE ONLY APPROXIMATE. PROVIDE ALL UNIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND MECHANICAL EQUIPMENT.
- THE CONTRACTOR FOR THIS PROJECT IS RESPONSIBLE FOR COORDINATING AND PERFORMING THE CONNECTION OF THE PIPING AND ASSOCIATED APPURTENANCES INSTALLED UNDER THIS CONTRACT TO BOTH THE EXISTING PIPING AND FACILITIES.
- 10. PRIOR TO SUBMITTING PIPING DRAWINGS FOR ANY NEW PIPE THAT IS TO CONNECT TO OR CROSS AN EXISTING PIPE OR STRUCTURE, THE CONTRACTOR SHALL EXPOSE THE EXISTING PIPE OR STRUCTURE TO VERIFY ITS EXACT LOCATION, SIZE, MATERIALS, AND INVERT ELEVATIONS.

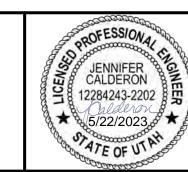
PIPE SERVICES

ID	DESCRIPTION
Α	AIR
AHP	AIR, HIGH PRESSURE
AIR	COMPRESSED AIR
ALP	AIR LOW PRESSURE
BD	BLOW DOWN
BWD	BACKWASH DISPOSAL
BWI BWO	BACKWASH IN BACKWASH OUT
BWS	BACKWASH SUPPLY
BWW	BACKWASH WASTE
CE	CONDENSATE
CL2	CHLORINE
CWTP	CIRCULATING WATER
DEC	DECANT
DIL	DILUTE
DS	DIGESTED SLUDGE
EFL EQ	EFFLUENT EQUALIZATION
ERW	EFFLUENT REUSE WATER
FE	FILTER EFFLUENT
FI	FILTER INFLUENT
FIL	FILTRATE
FO	FUEL OIL
FSS	FOAM SPRAY SYSTEM (UTILITY WATER)
G	GAS
GPR HF	GROUND PENETRATING RADAR HIGH PRESSURE FEEDWATER
IA	INSTRUMENT AIR
IMLR	INTERNAL MIXED LIQUOR RETURN
INFL	INFLUENT
IS	INTERMEDIATE PRESSURE STREAM
IW	INJECTION WATER
LS	LOW PRESSURE STREAM
MW NH	MAKE UP WATER AMMONIA
NAOH	SODIUM HYDROXIDE
NPW	NON-POTABLE WATER
OF	OVERFLOW
OFR	OVERFLOW RETURN
PA	PROCESS AIR
PR	PRESSATE POTABLE WATER, PROCESS WATER
PW RBW	RECLAIMED BACKWASH
REW	RECYCLED WATER
RO	REVERSE OSMOSIS
RTN	RETURN WATER
RW	RAW WATER
SA	SERVICE AIR
SC	SCUM
SDS SHC	SECONDARY DIGESTED SLUDGE SODIUM HYPOCHLORITE
SLG	SLUDGE
SMP	SAMPLE
SOLN	SOLUTION
SPD	SUMP PUMP DRAIN
SUP	SUPERNATANT, SUPPLY
TSL	THICKENED SLUDGE
TW UD	TREATED GROUND WATER UNDERDRAIN
VAR	VENT, ACID RESISTANT
W	WATER
W1	POTABLE WATER
W2	UTILITY WATER
W3	RECYCLED WATER
WTR	WATER WASH WATER, WASTEWATER
WW WWS	WASH WATER, WASTEWATER WALL WASH SYSTEM (UTILITY WATER)
V V V V O	(3 (7

MECHANICAL ABBREVIATIONS

ARV	AIR RELEASE VALVE
AVV	AIR/VACUUM VALVE
BAV	BALL VALVE
BF BED	BLIND FLANGE BACKFLOW PREVENTER
BFP BFV	BUTTERFLY VALVE
BO V	BLOW OFF
BUNA-N	NITRILE BUTADIENE RUBBER
CAV	COMBINATION AIR VALVE
CE	CERAMIC EPOXY
CKV	CHECK VALVE
CLDIP	CEMENT-LINED DUCTILE IRON PIPE
CM CPLG	CEMENT MORTAR COUPLING
CPVC	CHLORINATED POLYVINYL CHLORIDE
CU	COPPER
CV	CONTROL VALVE
DIP	DUCTILE IRON PIPE
DMJ	DISMANTLING JOINT
DR DV	DRAIN BLABUBA CAANANA
DV EO	DIAPHRAGM VALVE EMERGENCY OVERFLOW
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
FBE	FUSION BONDED EPOXY
FC	FLEXIBLE COUPLING
FCA	FLANGED COUPLING ADAPTER
FES	FLARED END SECTION
FH	FIRE HYDRANT
FKM	FLUOROCARBON (FPM or VITON®)
FLG FOE	FLANGE FLANGED ONE END
FRP	FIBERGLASS REINFORCED PLASTIC
GAV	GATE VALVE
GEC	GROOVED END COUPLING
GLV	GLOBE VALVE
GRV	GROOVED END
HDPE	HIGH DENSITY POLYETHYLENE
HSV IE	HOSE VALVE INVERT ELEVATION
KGV	KNIFE GATE VALVE
LLDPE	LINEAR LOW DENSITY POLYETHYLENE
MDV	MUD VALVE
MJ	MECHANICAL JOINT
MON	WATER MONITOR
MPV	MULTI-PORT VALVE NEEDLE VALVE
NDV NPT	NATIONAL PIPE THREAD
PFA	PERFLUOROALKOXY
PLV	PLUG VALVE
PNV	PINCH VALVE
PO	PUSH ON JOINT
POE	PLAIN ONE END
PRJ	PROPRIETARY RESTRAINED JOINT
PRV PTFE	PRESSURE REGULATING VALVE POLYTETRAFLUOROETHYLENE (TEFLON®)
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RFCA	RESTRAINED FLANGED COUPLING ADAPTER
RLS	RUBBER LINED STEEL
RMJ	RESTRAINED MECHANICAL JOINT
SAV	SAFETY VALVE
SLD	SOLDERED SOCKET JOINT
SLV SOV	SOLVENT WELDED SOCKET JOINT SOLENOID VALVE
SOW	SLIP ON WELD
TBG	TUBING
TDH	TOTAL DYNAMIC HEAD
THR	THREADED JOINT
TMV	THERMOSTATIC MIXING VALVE
TT	THRUST TIE
V	VENT
VAC WLD	VACUUM BUTT WELDED JOINT
WSP	WELDED STEEL PIPE
	··

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SOUTH VALLEY WATER RECLAMATION FACILITY SOLIDS HANDLING **DAY TANK**

MECHANICAL MAY 2023 PROJECT NO. LEGEND AND NOTES

MACHINE BOLT, TYP OFFSET PIPE CLAMP 3/4" THRU 10" PIPE — PLAN OR **VERTICAL PIPE ELEVATION** FLOOR OR WALL **SECTION** FOR VERTICAL PIPE RUNS ONLY 2. ATTACH TO WALL WITH SST ANCHORS, 3/8" DIAMETER MIN, COORDINATED WITH WALL CONSTRUCTION. WALL-MOUNTED STANDOFF PIPE SUPPORT, TYPE 1 40 05 07.41 FOR CONCRETE CEILINGS, **EPOXY ROD TO CEILING** WITH ADHESIVE ANCHORS

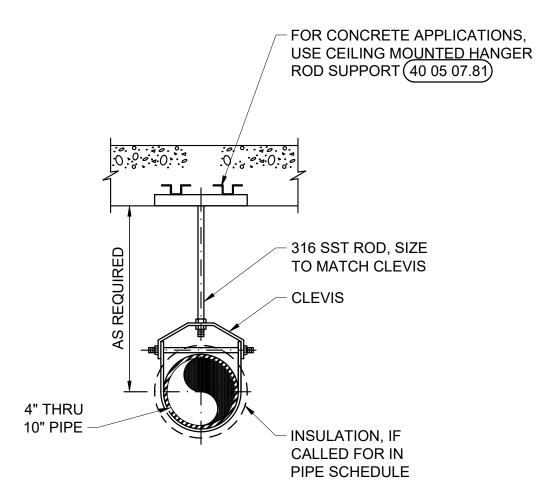
- TYPE 316 SST UNISTRUT P3254 THROUGH P3257 OR EQUAL SST NUT SST NUT AND WASHER WIDTH AS REQUIRED FOR PIPE HANGER TYPE 316 SST 16" MINIMUM **ALL-THREAD** ROD, SIZE EMBEDDED STRUT TYPE TO MATCH PROVIDE MULTIPLE PIPE HANGER INSERTS, AS REQUIRED REQUIREMENTS FOR PIPE HANGER \rightarrow TYPE 316 SST ALL-THREAD TO PIPE ROD, SIZE TO MATCH PIPE SINGLE POINT EMBED TYPE

NOTES:

 MAXIMUM LOAD FOR EITHER STYLE EMBED IS 3000 LBS. PROVIDE EMBEDS RATED FOR MAXIMUM OF 3000 LBS.

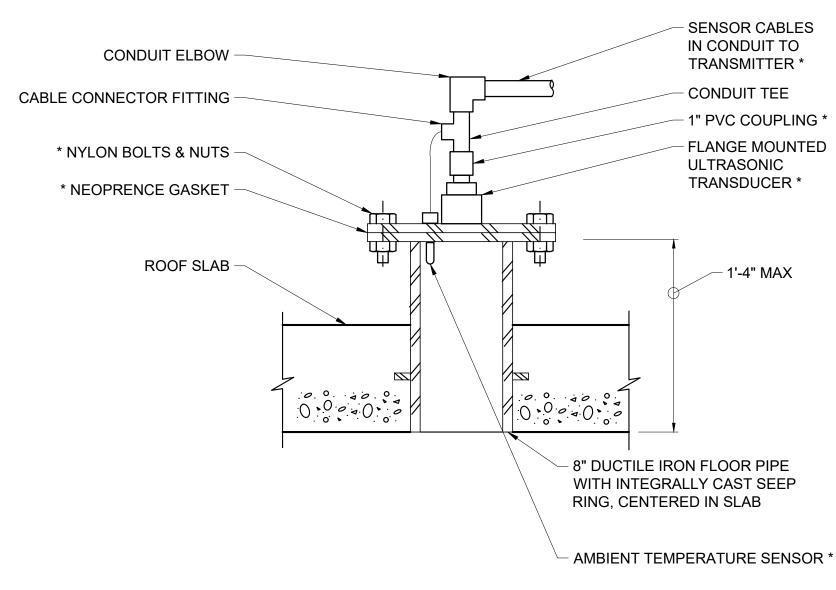
CEILING-MOUNTED HANGER ROD SUPPORT

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CEILING-MOUNTED PIPE HANGER 4" TO 10" PIPE

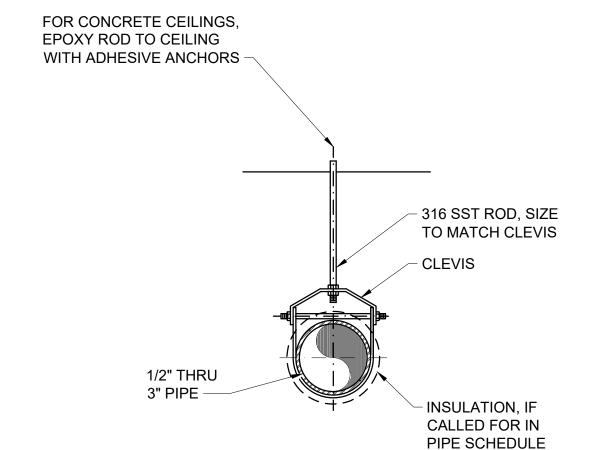
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OTES:

- 1. COMPONENTS DESIGNATED BY * ARE SUPPLIED BY INSTRUMENT MANUFACTURER.
- 2. COAT FLOOR PIPE WITH SPECIFIED PAINT SYSTEM PRIOR TO CONCRETE PLACEMENT.

ULTRASONIC LEVEL ELEMENT
INSTALLATION - CONCRETE ROOF
40 70 03.10



CEILING-MOUNTED PIPE HANGER UP TO 3" PIPE

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JENNIFER CALDERON 12284243-2202 **

5/22/2023 **

JENNY C

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CHECKED
FWF

APPROVED
JHM

1955 W. GROVE PARKWAY, PLEASANT GROVE, UT 84062



SOUTH VALLEY WATER RECLAMATION FACILITY SOLIDS HANDLING DAY TANK

STANDARD DETAILS 1

MECHANICAL

DATE
MAY 2023
PROJECT NO.
22-097
DRAWING NO.
0110
GM-2
GM-2 SHEET NO.

