Utah Division of Facilities Construction and Management (DCFM) THE POINT REDEVELOPMENT PACKAGE 03 TRANSMISSION LINE 100% SUBMITTAL DFCM Project # 22427100 AUGUST 2024



STATE MAP

OWNER:

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT 4110 State Office Building Salt Lake City, UT 84114 (801) 957-7230 CONTACT: MIKE AMBRE

ENGINEER:

HORROCKS ENGINEERS 2162 West Grove Parkway Pleasant Grove, UT 84062 (801) 763-5100 CONTACT: DAVE PETERSON, PE







VICINITY MAP NTS

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Know what's below. Call before you dig.

LEGEND

EXISTING

EXISTING BURIED ELECTRICAL LINE _____ bel _____ EXISTING OVERHEAD ELECTRICAL LINE EXISTING BURIED CABLE TV _____ bctv _____ EXISTING OVERHEAD CABLE TV _____ ctv ____ ctv ___ ctv ____ ctv ___ ctv ____ ctv ____ ctv ___ ctv ___ ctv ___ ctv ___ ctv ____ ctv ___ ctv ____ ctv ___ ctv ____ ctv ___ ctv ____ ctv ___ ct EXISTING BURIED FIBER OPTIC _____ bfo _____ EXISTING OVERHEAD FIBER OPTIC ______ fo ______ EXISTING BURIED TELEPHONE EXISTING OVERHEAD TELEPHONE EXISTING GAS LINE _____ g _____ EXISTING SEWER EXISTING STORM DRAIN EXISTING WATER LINE EXISTING IRRIGATION LINE _____ irr _____

PROPOSED

PROPOSED BURIED ELECTRICAL LINE PROPOSED OVERHEAD ELECTRICA PROPOSED BURIED CABLE TV PROPOSED OVERHEAD CABLE TV PROPOSED BURIED FIBER OPTIC PROPOSED OVERHEAD FIBER OPT PROPOSED BURIED TELEPHONE PROPOSED OVERHEAD TELEPHON PROPOSED BURIED COM LINE PROPOSED GAS LINE PROPOSED SEWER PROPOSED STORM DRAIN PROPOSED WATER LINE PROPOSED IRRIGATION LINE

AL LINE	EL *	 EL
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	CTV ·	 CTV
	BFO	 BFO
īC	FO	 F0
	BTEL	 BTEL
NE	TEL *	 TEL
	COM	 СОМ
	SS	 SS
	SD	 SD
	w -	 w
	IRR	 IRR

_____ BEL _____ BEL _____

SYMBOLS

PROPOSED CROSS	Ψ
PROPOSED TEE	ŀΤ
PROPOSED 90° BEND	Ъ
PROPOSED 45° BEND	\sim
PROPOSED 22.5° BEND	\sim
PROPOSED 11.25° BEND	Ы

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PROPOSED CAP AND PLUG	
PROPOSED GATE VALVE	\succ
PROPOSED FIRE HYDRANT	
PROPOSED CATCH BASIN	
PROPOSED SEWER CLEAN OUT	CC
PROPOSED WATER METER	W
EXISTING IRRIGATION BOX	ir

AC		
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CIP

CMP

CPP

HDPE

POLY

PVC

RCP

VCP

DI

ABBREVIATIONS

	ASPHALT CONCRETE PAVEMENT
	BUILDING BUITTERELY VALVE
	CAST IRON
	CLEAR CLEANOUT
	COMPRESSION FITTING
	CONCRETE
	CITY STANDARD
	COPPER TUBE STEEL
	DIAMETER OF PIPE
	DRAPER CITY STANDARD
	DIGNETILE IRON PIPE
	DIMENSION
	DRAWING
	EACH
	ELEVATION
	EASEMENT FACH WAY
EX	EXISTING
	FLANGE END
	FLANGE FITTING
	FLOW LINE
	FORCE MAIN FEET PER SECOND
	FIBERGLASS REINFORCED PLASTIC
	HORIZONTAL
	INVERT
	LEFT
	MAXIMUM MANUFACTURERS
	MILLION GALLONS PER DAY
	MANHOLE MALE IRON PIPE FITTING
	MECHANICAL JOINT FITTING
	NORTH, FRICTION FACTOR
	NUMBER
	NOTED
	PERMANENT
	ON CENTER
	PROPERTY LINE
	POLYVINYL CHLORIDE
	PUBLIC WORKS DEPARTMENT
	RATE OF FLOW
	REINFORCEMENT, REINFORCING
	RESERVOIR
	REVISION
	RIGHT OF WAY
	SOUTH, SLOPE
	STAINLESS STEEL STATION
	STANDARD
	THRUST BLOCK
	TEMPORARY
	UNIREATED BASE COURSE UNDERGROUND
	UNLESS NOTED OTHERWISE
	WEST

PIPE ABBREVIATIONS

CAST IRON PIPE CORRUGATED METAL PIPE CORRUGATED POLYETHYLENE PIPE DUCTILE IRON PIPE HIGH DENSITY POLYETHYLENE POLYETHYLENE PIPE POLYVINYL CHLORIDE PLASTIC PIPE REINFORCED CONCRETE PIPE VITRIFIED CLAY PIPE

UTILITY CONTACTS						
UTILITY COMPANY	CONTACT NAME	TELEPHONE NUMBER	E-MAIL			
BLUFFDALE CITY P.W.	KEVIN THOMPSON	801-849-9434	KTHOMPSON@BLUFFDALE.COM			
LUMEN/CENTURYLINK	LARRY BUHLER	385-479-7357	LARRY.BUHLER@LUMEN.COM			
DRAPER CITY PUBLIC WORKS	BRIEN MAXFIELD	801-576-6565	BRIEN.MAXFIELD@DRAPER.UT.US			
FIRSTDIGITAL TELECOM	BRANDON BALMFORTH	801-456-1095	BBALMFORTH@FIRSTDIGITAL.COM			
JORDAN VALLEY WATER C.D.	LORRIE COWLES	801-565-4300	LORRIEC@JVWCD.ORG			
VERIZON BUSINESS (MCI)	NATIONAL FIBER SECURITY	800-624-9675	INVESTIGATIONS@VERIZON.COM			
DOMINION ENERGY UTAH	SL MAPPING DEPARTMENT	801-324-3970	MAP.REQUESTS@DOMINIONENERGY.COM			
ROCKY MOUNTAIN POWER	JOEL SIMMONS	503-813-6993				
SOUTH VALLEY SEWER DISTRICT	MATTHEW GARN	801-571-1166	MATTHEWG@SVSEWER.COM			
UDOT REGION II	GOLDEN HOLT	801-887-3403	R2PERMITS@UTAH.GOV			
UTOPIA FIBER	XIAOTONG WU	801-613-3854	XMU@UTOPIANET.ORG			
WATER PRO IRRIGATION CO	STEVE CUNNINGHAM	801-571-2232	CUNNINGHAM@WATERPRO.NET			

UTILITY CONTACTS ARE LISTED AS A COURTESY AND MAY NOT BE UP TO DATE. CONTRACTOR SHALL ENSURE ALL APPROPRIATE UTILITY COORDINATION IS PERFORMED.



GENERAL NOTES

- 1. ALL UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING BLUE ST UTILITIES. CALL 1-800-662-4111 BEFORE YOU DIG.
- 2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION AND ENSURE THEY REMAIN (UNLESS OTHERWISE NOTED BY PROPERTY OWNER).
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS, PRIOR TO FINAL PAYMENT. 3
- 4. IF EXISTING UTILITIES OR CULVERTS ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBL THESE ITEMS.
- SAFE CONSTRUCTION PROCEDURES AND WORKING CLEARANCES ARE TO BE MAINTAINED AT ALL TIMES WHILE W 5.
- THE CONTRACTOR IS TO PROTECT ALL MONUMENTS OR REPLACE IF DISTURBED. 6
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE 7 DISCREPANCIES.
- TRAFFIC CONTROL IS TO CONFORM WITH UDOT AND MUTCD STANDARDS.
- TRAFFIC CONTROL SHALL INCLUDE PROVISIONS FOR BIKES AND PEDESTRIANS. 9.
- 10. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY EACH HOME OR BUSINESS THAT WILL BE IMPACTED AND COORDIN
- 11. NO PRODUCTS WILL BE FURNISHED BY THE OWNER UNLESS SPECIFICALLY STATED OTHERWISE.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED WATER LINE TESTING AND NEEDED BLOW-OFFS.
- 13. RESTORE OR PRESERVE ALL EXISTING FENCES, ROAD, AND DITCHES UNLESS OTHERWISE STATED ON THE PLANS
- 14. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS, THE MOS STANDARD SPECIFICATIONS AND DRAWINGS, AND THE MOST CURRENT EDITION OF THE AMERICAN PUBLIC WORK STANDARD SPECIFICATION AND PLANS.
- CONTRACTOR SHALL NOTIFY ENGINEER OF ALL UTILITY CONFLICTS UPON DISCOVERY.
- 16. ALL EXCAVATION, BACKFILLING, AND OTHER EARTHWORK OPERATIONS SHALL BE IN ACCORDANCE WITH THE PRO STRUCTURAL FILL, BEDDING, IMPORTED BACKFILL, GRANULAR SUBBASE, AND BASE COURSE MATERIALS SHALL OUTLINED IN THE PROJECT SPECIFICATIONS.
- 17. (UDOT LIMITATIONS OF OPERATIONS: TO BE DEFINED AFTER UDOT REVIEW)

TEST STATIONS

- 1. USE POST MOUNT STYLE UNLESS OTHERWISE SPECIFIED.
- 2. PLACE CARSONITE MARKER WITH UTILITY NAME AND CONTACT NUMBER BY ALL FLUSH TEST STATIONS IN UNDEVELOPED AREAS.
- MARK POST MOUNT STYLE STATIONS WITH UTILITY APPROVED LABEL MARKER ON POST 4. PROVIDE WIRE LOOP AT BASE OF TEST STATION AND AT PIPE CONNECTIONS TO MINIMIZE SETTLEMENT STRESSES ON WIRE
- 5. FLUSH MOUNT TEST STATIONS SHALL BE PROVIDE WITH SUFFICIENT SLACK WIRE TO ALLOW EXTENSION OF TERMINAL BOARDS A MINIMUM OF 18-INCHES.
- 6. USE STANDARD COLOR CODE AS SHOWN ON DETAILS AND AS FOLLOWS:

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- WHITE DISTRICT PIPELINE
- **GREEN UNPROTECTED PIPELINE** RED - FOREIGN PIPELINE
- **ORANGE CASING**
- **BLACK ANODES**
- YELLOW REFERENCE ELECTRODE
- **GREEN CORROSION COUPONS**
- 7. ALL TEST WIRES WIRES TO BE INSTALLED SPLICE FREE.
- 8. IN UNDEVELOPED OR CULTIVATED AREAS, BURY WIRES A MINIMUM OF 30-INCHES OR PLACE IN RIGID CONDUIT, SEE OFFSET TEST STATION DETAIL FOR CONDUIT REQUIREMENTS.
- 9. ALL TEST WIRE CONNECTIONS TO PIPE SHALL BE THERMITE WELDED CONNECTIONS, INDIVIDUAL WIRES SHALL BE CONNECTED TO PIPE WITH A MINIMUM OF 6-INCHES SEPARATION.
- 10. QUANTITY OF TERMINALS AND WIRING CONNECTIONS VARIES, SEE APPLICABLE TEST STATION TYPE.
- 11. ALL WIRES UNDER ROADWAY MUST BE PROTECTED BY PVC COATED STEEL CONDUIT AS SHOWN IN DETAIL, SEAL ENDS OF PIPE DUCT COMPOUND OR URETHANE FOAM, PROVIDE 2" CONDUIT FOR WIRES ONLY AND 3" CONDUIT FOR WIRES AND MONITORING PIPE, DO NOT CONNECT ROADWAY CONDUIT TO TEST STATION CONDUIT.
- 12. PROVIDE MONITORING PIPE WHERE TEST STATION OFFSET TO SIDE OF ROADWAY AS SHOWN IN THE DETAIL, INSTALLED MONITORING PIPE INSIDE A 3" PVC COATED RIGID STEEL CONDUIT.

IMPRESSED CURRENT CATHODIC PROTECTION

- 1. CONTRACTOR SHALL COORDINATE AC POWER SERVICE WITH LOCAL ELECTRICAL UTILITY, UTILITY SERVICE INSTALLATION COSTS TO BE PAID BY OWNER
- 2. CONTRACTOR TO PROVIDE ALL EXCAVATION, BACKFILL, CONDUIT AND PULL STRING FOR UNDERGROUND AC POWER SERVICE TO METER PEDESTAL, UTILITY TO PROVIDE AND INSTALL CONDUCTORS, SPLICES, AND CONNECTIONS TO METER BASE PER UTILITY STANDARD SERVICE INSTALLATION. 3. DRILLING MUD, WATER AND CUTTINGS SHALL BE FULL CONTAINED ON THE PROJECT SITE AND SHALL NOT BE PERMITTED TO FLOW OVER THE GROUND
- SURFACE, ANY SPILLAGE OR LEAKAGE OF DRILLING MUD AND CUTTINGS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND THE SITE **RESTORED TO ORIGINAL CONDITION.**
- 4. CONCRETE WORK SHALL BE OF THE HIGHEST QUALITY, FORMS SHALL BE SET LEVEL AND SQUARE, CONCRETE FINISH SHALL BE TROWEL SURFACE AND RADIUS EDGES. 5. ALL FORM WORK SHALL BE REMOVED FROM THE CONCRETE AFTER CURING IS COMPLETED.
- 6. RECTIFIER SHALL BE ORIENTED AS SHOWN ON THE PLANS, ADJUSTMENT IN THE LOCATION AND ORIENTATION OF THE RECTIFIERS AND VENT PIPES SHALL BE APPROVED BY THE ENGINEER.

	3			4			
			W	ATER UTILITY	NOTES		
TAKES FOR LOCATIONS OF ALL	1.	ALL CONSTRUCTION SHALL CONF	ORM TO DRAPE	R CITY STANDARDS, DFCM S	STANDARDS.		
I IN PLACE AND OPERATIONAL	2.	2. CONTRACTOR SHALL VERIFY ELEVATIONS OF ALL PIPELINES AND VERIFY LOCATION PRIOR TO PRO PIPELINE CONSTRUCTION. IF THE IN FIELD CONDITION VARIES FROM DESIGN, THE CONTRACTOR IS CHANGES IN CONDITION. CITY MAPS ARE "BEST KNOWLEDGE" AND APPROXIMATE.					
	3.	12 GAUGE THWN-2 JACKETED STR ADDITIONAL WIRE SLACK IS REQU	RANDED COPPER JIRED IN ALL VAI	R WIRE SHALL BE TAPED TO LVE BOXES, VAULTS, MANHO	ALL WATER LINES FO DLES, OR OTHER PIPE		
E TO REMOVE AND REPLACE	4.	ASPHALT REPLACED IS TO MATCH	H EXISTING PAVI	EMENT DEPTHS WITH A 6" O	VER CUT FROM EDGE		
VORKING NEAR POWERLINES.	5.	ANY CHANGES MADE IN THE FIELD	D MUST BE FIRS	T APPROVED AND DOCUME	NTED BY THE PROJEC		
HE ENGINEER OF ANY	6.	RAISE ALL UTILITIES, SUCH AS MA FINISHED GRADE AS MAY BE APPL	NHOLES, METER LICABLE.	R SETTERS, FIRE HYDRANTS	S, WATER VALVE LIDS,		
	7.	7. ALL HARDWARE, VALVES, COUPLINGS, MECHANICAL JOINTS, FLANGES, ETC. ARE TO BE COATED V SPECIFICATION 09 97 10.					
	8.	DI = CLASS 52 DUCTILE IRON PIPE					
NATE WORK AS NECESSARY.	9.	TRENCH EXCAVATION SHALL COM TRENCH BACKFILL SHOULD BE PL	APLY WITH THE I ACED IN 4 TO 6	MOST CURRENT OCCUPATION INCH LIFTS IF HAND COMPA	ONAL SAFETY AND HEA		
S.	10.	LIMIT THE LENGTH OF OPEN TREN COMPACTION OF AGGREGATE BA NIGHTTIME CONDITIONS THROUG METHODS.	NCH TO 500 FEE SE COURSE NO H THE USE OF E	T IN ADVANCE OF PIPE LAYII T MORE THAN 500 FEET IN T BACKFILL, TRENCH PLATES,	NG. COMPLETE BACKF HE REAR OF PIPE LAY BARRICADES AND/OR		
ST CURRENT EDITION OF UDOT KS ASSOCIATION MANUAL OF	11.	POLYETHYLENE ENCASEMENT (PO	OLYWRAP) OF D	I PIPE IS REQUIRED PER AW	/WA C105.		
			W	ATER LINE PIPE L	EGEND		
MEET THE REQUIREMENTS			PIPE SIZE	WORKING PRESSURE	TEST PRESSURE		
			16"	75 PSI	112.5 PSI		
			24"	75 PSI	112.5 PSI		
			30"	75 PSI	112.5 PSI		
			L	1			

ELECTRICAL CONTINUITY

- 1. ALL BURIED OR VAULT JOINTS SHALL BE BONDED FOR ELECTRICAL CONTINUITY.
- PROVIDE TWO BONDS. MINIMUM. ON EACH JOINT UNLESS SPECIFIED OTHERWISE FOR PIPE DIAMETER. 2 FLEXIBLE COUPLINGS, FLANGE COUPLING ADAPTERS, OR DEPEND-O-LOC JOINTS SHALL BE BONDED SIMILAR TO FLEXIBLE JOINT. 3 SEE DETAIL X. SHEET CP-X
- COATED STEEL PIPE JOINTS SHALL BE BONDED AS SHOWN IN DETAIL X, SHEET CP-X
- MORTAR COATED STEEL PIPE SHALL BE BONDED AS SHOWN IN DETAIL X, SHEET CP-X

PROVIDE INSULATING JOINTS IN PIPELINE WHERE INDICATED ON THE DRAWINGS.

TEST ALL INSULATING JOINTS FOR ELECTRICAL ISOLATION AS SPECIFIED.

2.

- DUCTILE IRON PIPE JOINTS SHALL BE BONDED AS SHOWN IN DETAIL X, SHEET CP-X 6
- 7. BURIED OR VAULT FLANGE JOINTS SHALL BE BONDED AS SHOWN IN DETAIL X, SHEET CP-X.

ELECTRICAL ISOLATION

PROVIDE DC BLOCKING DEVICES AND INSULATING UNION IN ELECTRICAL CONDUITS ON ALL MOTOR OPERATED VALVES PER 3. DETAIL X, DWG CP-X

4. ALL MISCELLANEOUS PIPING AND ELECTRICAL CONDUITS TO BE ELECTRICALLY ISOLATED FROM CATHODICALLY PROTECTED PIPES.

OCEEDING WITH ANY BUILDING OR S RESPONSIBLE FOR COSTS DUE TO

OR LOCATING PURPOSES. 2 FEET OF E LINE APPURTENANCES.

OF THE EXCAVATION OR ON EACH SIDE

CT REPRESENTATIVE.

, ETC. TO ROADWAY OR PROJECT

VITH WAX TAPE COATING SYSTEM. SEE

ALTH ADMINISTRATIVE STANDARDS. HAN 8 INCH LIFTS IF POWER COMPACTED.

FILLING AND INSTALLATION AND YING. CLOSE TRENCHES DURING **COTHER APPROVED PROTECTION**

08-08-24

Facilities Construction and Management 4315 SOUTH 2700 WEST, FL 3 TAYLORSVILLE, UT 84129-2128 801-957-7230 Horrocks 2162 West Grove Pkwy., Suite 100 Pleasant Grove, UT 84062 (801) 763-5100 www.horrocks.com WARNING IF THIS BAR DOES NOT MEASURE 2" THEN DRAWING IS NOT TO SCALE PROJECT TITLE THE POINT WATER LINES DRAPER, UTAH SSUE TYPE: 100% CD SSUE DATE: AUGUST 2024 DFCM PROJ No. UT-CV-3355-22 DRAWN BY: CHK'D BY: DWG COPYRIGHT: 2024 SHEET TITLE **GENERAL NOTES** SHEET NUMBER **G.1.2**

division of

1/2022/U1-CV-3355-22 The Point Redevelopment/Minuteman Drive 16WL/Project Data/Sheet Files/CAD/U1-CV-3355-22 The Point VAULT DETAILS.dwg - P.1.5 - 8/08/2024 04:10pm,

Wrong name	- FITTING SC	HEDULE	division of Facilities Construction
ESCRIPTION	CONNECTION	NOTES	4315 SOUTH 2700 WEST, FL 3 TAYLORSVILLE, UT 84129-2128
el.	FLG	LENGTH VARIES	801-957-7230
E INSULATING KIT		SEE DETAIL 510, SHEET D.1.4	Horrocks.
TERFLY VALVE LOW METER pacing up and down work se meters? 5 up 2 down? I	FLG FLG	AV-TEK, VAG, OR EQUAL ENDRESS HAUSER SERIES 400 SUBMERSIBLE RATED WITH MOD-BUS 485 INTERFACE WITH HEARTBEAT DIAGNOSTICS. MODEL 5W4C2F-AAALMP5DUA1LGA+AACBL4 OR ROSEMOUNT 8750W UTILITY MAGNETIC FLOW METER SYSTEM	2162 West Grove Pkwy., Suite 100 Pleasant Grove, UT 84062 (801) 763-5100 www.horrocks.com
d to go to the 0 up o down	1.	8750WDEW1A1FPSAXXXCA1M4G1DWR	
HECK VALVE	FLG	VALMATIC SWING FLEX WITH MECHANICAL DISK POSITION OR EQUAL	
EEVE W/ LINK SEAL		SEE DETAIL 522, SHEET D.1.7	
PE SUPPORT		SEE DETAIL E, SHEET C2 (D.1.7)	
AND SUMP PUMP		SEE DETAIL A, SHEET C5 (D.1.8)	
ESS STEEL LADDER		SEE DETAIL F, SHEET C2 (D.1.7)	
		SEE DETAIL H, SHEET C2 (D.1.7)	
HOSE BIB		200 PSI LIQUID FILLED GLYCERIN PRESSURE	
SSURE GAUGE		GAUGE WITH 1/2" BRASS CLOSE NIPPLE, 1/2" FNPT WILKINS 700 XL DUAL CHECK VALVE AND 1/2" MIP FY-691, CHROME PLATED, SMOOTH END SAMPLING VALVE	
		EJ CASTINGS FLUSH HS-20 TO JVWCD STANDARDS INCLUDING NYSTROM WEBBED SAFETY NET TO OSHA 29 CFR1926.502C (HINGED GRATING EXCLUDED)	0 1 2 IF THIS BAR DOES NOT MEASURE 2" THEN
			DRAWING IS NOT TO SCALE
		SEE DETAIL 5075, SHEET D.1.9 SEE DETAIL F SHEFT C4 (D 1 7)	
		SEE DETAIL D, SHEET C4 (D.1.7) & DETAIL B, SHEET	
		EJ CASTINGS FLUSH HS-20 TO JVWCD	
ACCESS		STANDARDS INCLUDING NYSTROM WEBBED SAFETY NET TO OSHA 29 CER1926 502C (HINGED	
ave cover recessed es should drain to drain roc		GRATING EXCLUDED)	
STEEL TEE			PROJECT TITLE
 CONCRETE TO LADDER SHALL SEAL COAT ALL COATING COM ALL VALVES AN SLOPE FLOOR INSTALL METER STRUCTURAL NETER STRUCTURAL NETER INSTALL FOUR SECONDARY A ALL PIPING WIT PROVIDE CLSM EACH SIDE OF PROVIDE INSU 	D HAVE A MINIMUM L BE INSTALLED W L BURIED EXTERIO POUND. ND FITTINGS TO C TOWARD SUMP A R PER MANUFACT REINFORCEMENT QUIRED. LIFTING RINGS O ACCESS. THIN THE VAULT S A FLOWABLE FILL VAULT. LATING FLANGE K	A, 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. //THIN 12" OF ACCESS COVER & 12" OF THE FLOOR. OR VAULT SURFACES WITH BITUMINOUS SURFACE OMPLY WITH AWWA STANDARDS. AT 2% MINIMUM. TURER'S RECOMMENDATION. SUBMITTAL STAMPED BY LICENSED STRUCTURAL VER PIPE AND ONE AT THE CORNER NEAR SHALL BE EPOXY LINED AND COATED STEEL. CONCRETE PIPE BEDDING FOR FIRST 10' FROM AT 1F SOURCE LINE IS CATHODICALLY PROTECTED.	DRAPER, UTAH
<u>2'</u>		SIONAL ENCEPTION SUSSECTIONAL ENCEPTION OF A TE OF UT AIL	SHEET TITLE VAULT SHEET NUMBER P.1.5
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PLAN VIEW

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3			4		5	
			PUMP BUILDING	- FITTING SCHE	DULE	division of Facilities Construction
	ITEM #	SIZE	DESCRIPTION	CONNECTION	NOTES	4315 SOUTH 2700 WEST, FL 3
	1	16"	DI SPOOI	FIG	I ENGTH VARIES	TAYLORSVILLE, UT 84129-2128 801-957-7230
	2	20"	DI SPOOL	FLG	LENGTH VARIES	Horrocks.
	3	24"	DI SPOOL	FLG	LENGTH VARIES	2162 West Grove Pkwy., Suite 100
	4	24" x 20"	DI TEE	FLG		Pleasant Grove, UT 84062
	5	20"	DOUBLE ECCENTRIC BUTTERFLY VALVE	FLG		(801) 763-5100 www.horrocks.com
	6	16"	DOUBLE ECCENTRIC BUTTERFLY VALVE	FLG		
$\begin{pmatrix} 7 \end{pmatrix}$	7		WALL SLEEVE W/ LINK SEAL		SEE DETAIL 505, SHEET D.1.3	
$/$ $\begin{pmatrix} 1 \end{pmatrix}$	8		PIPE SUPPORT		SEE DETAIL E, SHEET C2 (D.1.7)	
	9		SUMP AND SUMP PUMP		SEE DETAIL A, SHEET C5 (D.1.8)	
\longrightarrow	10		STAINLESS STEEL LADDER		SEE DETAIL F, SHEET C2 (D.1.7)	
	11		LIFTING EYE		SEE DETAIL H, SHEET C2 (D.1.7)	
	12		HOSE BIB		SEE DETAIL G, SHEET C2 (D.1.7)	
	13		VINYL WATER STOP			
A	14		SUMP DISCHARGE		SEE DETAIL E, SHEET C4 (D.1.7)	
	15	24" x 16"	REDUCER	FLG		
	16		AIR VAC		ELCASTINGS FLUSH HS-20 TO JVWCD	
	17	48" x 36"	ACCESS		STANDARDS INCLUDING NYSTROM WEBBED SAFETY NET TO OSHA 29 CFR1926.502C (HINGED GRATING EXCLUDED)	WARNING
	L				· · · · /	
S 2 01			NOTES:			IF THIS BAR DOES NOT
			1. VAULT TO BE DE	ESIGNED FOR HS	-20 TRAFFIC LOADING STRUCTURAL CONDITIONS.	MEASURE 2" THEN DRAWING IS NOT TO SCALE
			2 CONCRETE TO H	HAVE A MINIMUM	28 DAY COMPRESSIVE STRENGTH OF 4 000 PSI	
			3. LADDER SHALL E	DE INSTALLED W	THIN 12 OF ACCESS COVER & 12 OF THE FLOOR.	
			4. SEAL COAT ALL COATING COMPO	BURIED EXTERIO OUND.	OR VAULT SURFACES WITH BITUMINOUS SURFACE	
			5. ALL VALVES AND	D FITTINGS TO C	OMPLY WITH AWWA STANDARDS.	
			6. SLOPE FLOOR T	OWARD SUMP A	T 2% MINIMUM.	PROJECT TITLE
			7. STRUCTURAL RE ENGINEER REQU	EINFORCEMENT JIRED.	SUBMITTAL STAMPED BY LICENSED STRUCTURAL	THE POINT
TOP OF VAULT EL 4622.5			8. ALL PIPING WITH	HIN THE VAULT S	HALL BE EPOXY LINED AND COATED STEEL.	WATER LINES
			9. PROVIDE CLSM F EACH SIDE OF V	FLOWABLE FILL AULT.	CONCRETE PIPE BEDDING FOR FIRST 10' FROM	
						DRAPER, UTAH
13						
						ISSUE LYPE:
OF 1" GRAVEL ON TOP STRUCTURAL FILL						ISSUE DATE: AUGUST 2024
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SURFACE MONITORING POINT

SITE SAFETY INCLUDING SURVEY READINGS CONDUCTED WITHIN ROADWAY SHOULDER SHALL BE AT THE INSTRUMENTATION SPECIALIST'S DISCRETION. TRAFFIC CONTROL SHALL BE PROVIDED BY THE INSTRUMENTATION SPECIALIST AS NECESSARY TO CONDUCT SURVEY READINGS

THE SURFACE MONITORING ARRAYS SHALL CONSIST OF EVENLY SPACED SURFACE SURVEY POINTS, AS SHOWN IN SECTION S-1, INSTALLED OUTSIDE OF THE TRAVEL LANES WITH PAINTED IDENTIFICATION MARKERS PLACED ON THE PAVEMENT SURFACE CORRESPONDING TO THE MONITORING ARRAY (DETAIL D-3).

SURFACE MONITORING POINTS AND MONITORING POINT ARRAYS SHALL HAVE MEASUREMENT READ TWICE WEEKLY DURING SHAFT CONSTRUCTION, TWICE DAILY DURING TUNNELING, AND WEEKLY AFTER COMPLETION OF THE TUNNEL UNTIL MOVEMENT BETWEEN SUCCESSIVE MEASUREMENTS IS NEGLIGIBLE AS DETERMINED BY THE ENGINEER.

INSTRUMENTATION RESPONSE VALUES				
INSTRUMENTATION TYPE	THRESHOLD VALUE	SHUTDOWN VALUE		
SURFACE MONITORING POINTS	0.02 FEET IN Z, 0.2 FEET IN ANY OF X OR Y	0.04 FEET IN Z, 0.4 FEET IN ANY X OR Y		

4.1. IF A THRESHOLD VALUE IS REACHED, ALL PARTIES TO INCLUDE BUT NOT NECESSARILY LIMITED TO THE OWNER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY BY THE INSTRUMENTATION SPECIALIST. THE CONTRACTOR SHALL MEET WITH THE OWNER, OWNER'S REPRESENTATIVE, AND/OR ENGINEER TO REVIEW COLLECTED DATA AND DETERMINE WHETHER ANY CHANGES TO THE CONSTRUCTION PROCEDURES ARE NECESSARY TO ENSURE THE SAFE COMPLETION OF THE WORK.

4.2. IF A SHUTDOWN VALUE IS REACHED, ALL PARTIES TO INCLUDE BUT NOT NECESSARILY LIMITED TO THE OWNER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY BY THE INSTRUMENTATION SPECIALIST AND THE CONTRACTOR SHALL STOP TUNNEL WORK UNTIL MEETING WITH THE OWNER AND ENGINEER AND/OR ANY OTHER AFFECTED THIRD PARTIES OCCURS. A SEPARATE PLAN OF ACTION DIFFERING FROM THE MEANS AND METHODS UTILIZED CAUSING EXCESSIVE MOVEMENT SHALL BE ADOPTED TO HELP MITIGATE FUTURE GROUND MOVEMENT. IF THE OWNER AND ENGINEER DEEM EXCESSIVE MOVEMENT HAS OCCURRED, MITIGATION TO CORRECT THE DISPLACED SURFACE SHALL BE COMPLETED FOR THE AFFECTED STRUCTURES AT THE CONTRACTORS EXPENSE.

ALL MONITORING INSTRUMENTATION SHALL BE REMOVED AND RESTORED IN ACCORDANCE WITH THE OWNER'S REPRESENTATIVE'S PERMIT REQUIREMENTS AFTER THE ENGINEER HAS DETERMINED THAT ADDITIONAL SURVEY DATA IS NO LONGER REQUIRED.

	PROJECT TITLE	THE POINT - PACKAGE 3 TRANSMISSION LINE	OWNER division of Facilities Construction and Management		ruction ant Horrocks			
	DRAWING		PROJECT NO .:	2400100	DRAWN BY:	ON	J	
, STE 140 - PMB #503	IIILE		LOCATION:	DRAPER, UT	DESIGNED BY:	AW		
GROVE, UTAH 84062 801.743.1333		MONITORING DETAILS	DATE:	07/17/2024	CHECKED BY:	BC		

ΝΟΤΙ	ES:	division of Facilities Construction
1.	48" STEEL CASING PIPE TO HAVE A MINIMUM 5/8" (0.625) WALL THICKNESS.	4315 SOUTH 2700 WEST, FL 3 TAYLORSVILLE, UT 84129-2128 801-957-7230
2.	STEEL PIPE MATERIAL TO CONFORM TO ASTM A 252 GRADE 2 STEEL AND BE MANUFACTURED SPECIFICALLY FOR JACKING. WELDS TO CONFORM TO ANSI/AWS D1.1.	Horrocks. 2162 West Grove Pkwy., Suite 100 Pleasant Grove, UT 84062 (801) 763-5100 www.horrocks.com
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TUNNEL EXCAVATION & INITIAL SUPPORT NOTES

- SPECIFICATION 31 71 00 TUNNEL EXCAVATION AND INITIAL SUPPORT PROVIDES THE ACCEPTABLE TUNNELING TECHNIQUES, THE MINIMUM SPECIFIED INITIAL SUPPORT THICKNESS, AND INSTALLATION TOLERANCES.
- 2. THE 36-INCH Ø WATERLINE SHALL BE HOUSED WITHIN A 48-INCH Ø STEEL CASING PIPE PER THE CONTRACT DOCUMENTS.

INITIAL SUPPORT JOINT NOTES

 STEEL CASING SEGMENTS SHALL UTILIZE A WELDED JOINT AS INDICTED IN THE JOINT DETAIL AND SPECIFICATIONS OR T5 AS MANUFACTURED BY PERMALOK OR EQUIVALENT PER SPECIFICATION 31 71 00.

CONTACT GROUT NOTES

4. SEE SPECIFICATION 31 73 00 AND DETAIL 3.

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	Pleasant Grove, UT 84062 (801) 763-5100 www.horrocks.com
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4. CALCULATED ON 225 LB TEST PRESSURE, ALLOWABLE BEARING PRESSURE OF 2000 LB PER SQ FT, AND SAFETY FACTOR OF 1.5.

5. IN POORER SOILS SPECIAL DESIGN IS REQUIRED.

504 THRUST BLOCK GENERAL CONDITIONS

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GENERAL REQUIREMENTS

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK AND SHALL NOTIFY THE ARCHITECT/ STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. ANY OMISSION OR CONFLICT BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK SO AFFECTED.
- NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS ON THIS SHEET IN CASE OF CONFLICT.
- 3. ALL CONSTRUCTION AND QUALITY OF MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE BUILDING CODE, AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.
- WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK. SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWINGS. WHERE SUFFICIENTLY SIMILAR WORK IS NOT SHOWN, THE ARCHITECT/ENGINEER SHALL BE CONSULTED FOR CLARIFICATION.
- 5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ANY UNDERGROUND OR CONCEALED CONDUIT, PLUMBING OR OTHER UTILITIES WHERE NEW WORK IS BEING PERFORMED, PRIOR TO BEGINNING EXCAVATIONS.
- PIPES, DUCTS, SLEEVES, CHASES, ETC., SHALL NOT BE PLACED IN SLABS, BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, DUCTS, ETC., UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
- 7. FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT IN EXCESS OF 250 LBS.. THE CONTRACTOR SHALL COORDINATE EXACT WEIGHTS AND LOCATIONS WITH STRUCTURAL SUPPORTS. IN THE EVENT THAT THE EQUIPMENT DEVIATES IN WEIGHT OR LOCATION FROM THOSE INDICATED ON THE STRUCTURAL PLANS, THE ENGINEER MUST BE NOTIFIED AND APPROVAL GIVEN PRIOR TO INSTALLATION.
- TEMPORARY BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY, OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETE.
- 9. DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOAD.
- 10. NEITHER THE OWNER NOR THE ARCHITECT/STRUCTURAL ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- 11. ANY OPTIONS OR SUBSTITUTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. NO STRUCTURAL CHANGES OR SUBSTITUTIONS SHALL BE MADE IN THE FIELD FROM THE APPROVED CONSTRUCTION DOCUMENTS UNLESS WRITTEN APPROVAL OF SUCH CHANGES OR SUBSTITUTIONS IS OBTAINED FROM THE STRUCTURAL ENGINEER. IF CHANGES ARE MADE WITHOUT WRITTEN APPROVAL, SUCH CHANGES, ALONG WITH ANY ADDITIONAL COSTS, REPAIRS AND COORDINATION WITH OTHER AFFECTED ITEMS SHALL BE THE LEGAL AND FINANCIAL RESPONSIBILITY OF THE CONTRACTOR AND/OR SUBCONTRACTORS INVOLVED.
- 12. A REGISTERED CIVIL ENGINEER SHALL DESIGN AND BE RESPONSIBLE FOR ANY SUPPLEMENTAL FABRICATION DESIGNS OF BUILDING COMPONENTS. IT SHALL BE THE RESPONSIBILITY OF THE COMPONENT FABRICATOR TO COMPLY WITH ALL APPLICABLE REGULATIONS AND TO OBTAIN APPROVAL FROM THE NECESSARY GOVERNING AGENCIES ON SUCH DESIGNS. PRIOR TO CONSTRUCTION AND/OR FABRICATION OF THE ALTERNATE COMPONENTS, THE DESIGN SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD FOR CONFORMANCE WITH THE STRUCTURAL DESIGN AS APPROVED FOR BUILDING PERMIT.

REINFORCING STEEL

1. REINFORCING STEEL - A.S.T.M. A-615 WITH GRADES AS LISTED BELOW

MATERIAL	SIZE	GRADE
CONCRETE	ALL SIZES	60
MASONRY	ALL SIZES	60

2. ALL WELDED REINFORCING BARS SHALL BE A.S.T.M. A-706 USE LOW HYDROGEN ELECTRODES AS FOLLOWS:

WELDED MEMBER	ELECTRODE
REBAR TO REBAR	E80XX
REBAR TO A36 BASE METAL	E70XX

3. WELDED WIRE FABRIC - A.S.T.M. A-185 MINIMUM FABRIC SPLICE SHALL BE THE WIRE SPACING PLUS 2".

4. UNLESS NOTED OTHERWISE, MINIMUM PROTECTIVE COVER AS FOLLOWS:

CONDITION	CLEAR DISTANCE
ON EARTH SIDE - PLACED AGAINST EARTH	3"
ON EARTH SIDE WHEN FORMED	2"
STEEL IN SLAB ON GRADE	€ SLAB

5. CONCRETE REINFORCING LAP SPLICES SHALL BE AS FOLLOWS:

	fc (PSI)	BAR SIZE (1)						
LOCATION		#3	#4	#5	#6	#7	#8	#9
REBAR WITH A MIN 2" CLR COVER: FOUNDATION, SLAB-ON-GRADE, BEAMS, COLUMNS AND WALLS (2)	2,500	19	25	31	37	54	61	76
	3,000	17	23	28	34	49	56	69
	4,000	15	20	25	29	43	49	60
	4,500	14	19	23	28	40	46	56

NOTES: (1) LENGTHS ARE IN INCHES

(2) BAR SPACING SHALL BE GREATER THAN 4 INCHES PLUS ONE BAR DIAMETER.

- 6. REINFORCING DETAILING, BENDING AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE'S MANUAL OF STANDARD PRACTICE, LATEST EDITION AND A.C.I. 315.
- INDICATES A BAR WITH A BEND TURNED TOWARDS THE OBSERVER • INDICATES A BAR WITH A BEND TURNED AWAY FROM THE OBSERVER
- INDICATES A LAPPED SPLICE IN THE SAME PLANE, NOT A BEND IN THE BAR
- 7. ALL REINFORCING STEEL, WELDED WIRE FABRIC, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO AND WHILE PLACING CONCRETE OR GROUT.
- 8. UNLESS OTHERWISE NOTED OR SHOWN, SPACER TIES SHALL BE #3 TIES AT 72 IN. IN ALL BEAMS AND REINFORCED FOOTINGS.

REINFORCED CONCRETE

1. UNLESS NOTED OTHERWISE, THE SPECIFIED CONCRETE STRENGTH SHOWN IN THE FOLLOWING TABLE IS THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS. THE AGGREGATE SHOWN IS THE MAXIMUM SIZE THE SI UMP SHOWN IS THE MAXIMUM IN INCHES (REGULAR WEIGHT - 145 PSF).

CONSTRUCTION	STRENGTH (PSI)	AGGREGATE	H2O/CEMENT RATIO	SLUMP	TYPE	
FOUNDATION	4,500	3⁄4"	0.42	4"	IL (HS)	
SLAB ON GRADE	4,500	3⁄4"	0.42	4"	IL (HS)	
CONCRETE WALLS	4,500	3⁄4"	0.42	4"	IL (HS)	
SUSPENDED SLAB	4,500	3⁄4"	0.42	4"	IL (HS)	
COLUMNS	4,500	3⁄4"	0.42	4"	IL (HS)	

- 2. DRY PACK SHALL BE COMPOSED OF 1 PART PORTLAND CEMENT AND NO MORE THAN 3 PARTS SAND
- 3. PORTLAND CEMENT SHALL CONFORM TO A.S.T.M. C 595. STRUCTURAL CONCRETE AGGREGATE SHALL CONFORM TO A.S.T.M. C 33-07 FOR STANDARD WEIGHT OR C 330-05 FOR LIGHTWEIGHT.
- 4. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT (CALCIUM CHLORIDE SHALL NOT BE USED). CONCRETE SHALL NOT COME IN CONTACT WITH ALUMINUM.
- 5. ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.
- 6. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING AND FORMWORK.
- NO CONDUIT PLACED IN A CONCRETE SLAB SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE SLAB. NO CONDUIT SHALL BE EMBEDDED IN A SLAB THAT IS LESS THAN 4 IN. THICK. WITH THE EXCEPTION OF LOCAL OFFSETS, MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE 6 IN.
- BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO INSURE PROPER PLACEMENT OF ALL PIPES, CONDUITS, ETC. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE FOOTINGS UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL PLANS OR AS DIRECTED BY THE ENGINEER.
- 9. TIE ALL INSERTS, ANCHOR BOLTS OR OTHER EMBEDDED ELEMENTS SECURELY IN PLACE PRIOR TO PLACEMENT OF CONCRETE.
- 10. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ALL MOLDS, GROOVES, ORNAMENT, CLIPS OR GROUNDS, REQUIRED TO BE ENCASED IN CONCRETE AND FLOOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
- 11. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED.
- 12. A CRYSTALLINE WATERPROOFING ADDITIVE SHALL BE ADDED TO THE CONCRETE MIX TO SEAL CONCRETE AGAINST PENETRATIONS OF LIQUID FROM ANY DIRECTION. XYPEX CHEMICAL CORPORATION IS AN ACCEPTABLE MANUFACTURER FOR THIS MATERIAL, SEE SPECIFICATION 033040 FOR COMPLETE GUIDANCE ON CRYSTALLINE WATERPROOFING ADDITIVE.

STRUCTURAL SHOP DRAWINGS

- 1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR THE ITEMS CHECKED BELOW.
- 2. ALL SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR REVIEW SHALL BE STAMPED AND SIGNED BY THE CONTRACTOR INDICATING THAT HE HAS FOUND THEM TO BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THAT PROPER PROVISION HAS BEEN MADE TO ACCOMMODATE ALL ABUTTING WORK. FABRICATION SHALL NOT BEGIN UNTIL THE CONTRACTOR HAS RECEIVED SHOP DRAWINGS THAT HAVE BEEN REVIEWED. STAMPED AND SIGNED BY THE ENGINEER.
- 3. THE ENGINEER WILL REVIEW THE SHOP DRAWING SUBMITTALS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND CONTRACT DOCUMENTS.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK AND THAT OF OTHER TRADES AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.
- 5. UPON RECEIPT, THE ENGINEER WILL REVIEW THE SUBMITTALS WITH REASONABLE PROMPTNESS. THE CONTRACTOR SHALL NOT ASSUME A TURNAROUND TIME BASED ON A DATE OF RECEIPT BY THE ENGINEER OF LESS THAN 10 WORKING DAYS.
- 6. SHOP DRAWING SUBMITTALS SHALL INCLUDE THREE SETS OF PRINTS.
- 7. STRUCTURAL SHOP DRAWING SUBMITTALS REQUIRED:
- [] STEEL JOIST AND GIRDER [] PREFABRICATED TRUSSES OR JOISTS
- [] GLU-LAMINATED TIMBER
- [] STRUCTURAL STEEL
- [] MISCELLANEOUS STEEL (WHERE PARTS ARE SHOP WELDED) • [] FIRE SPRINKLER SYSTEM (WITH WEIGHTS)
- [] STOREFRONT SYSTEMS/SKYLITES
- [] ANCHOR BOLT LAYOUTS
- [X] REINFORCING STEEL PLACEMENT DRAWINGS [X] CONCRETE MIX

CONSTRUCTION OBSERVATIONS

AS SPECIFIED IN SECTION 1702 OF THE BUILDING CODE THE ENGINEER OF RECORD IS REQUIRED TO OBSERVE THE FOLLOWING ITEMS DURING THE CONSTRUCTION PROCESS. CONSTRUCTION OBSERVATION IS NOT AND DOES NOT WAIVE THE RESPONSIBILITY OF SPECIAL INSPECTION REQUIRED AS SPECIFIED IN SECTION 109 AND SECTION 1704 OF THE BUILDING CODE AND AS LISTED IN 'STATEMENT OF SPECIAL INSPECTIONS' SECTION OF THESE GENERAL NOTES.

- 1. HORROCKS ENGINEERS MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO EACH INDIVIDUAL CONCRETE PLACEMENT (POUR) OF THE CONCRETE FOUNDATIONS AND BOTTOM SLAB.
- 2. HORROCKS ENGINEERS MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO EACH INDIVIDUAL CONCRETE PLACEMENT (POUR) OF THE CONCRETE WALLS AND COLUMNS.
- . HORROCKS ENGINEERS MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE PLACEMENT OF THE TOP SLAB AND DROP PANELS. THE FOLLOWING ITEMS SHALL BE COMPLETE PRIOR TO HORROCKS' INSPECTION:
- A. ALL #8 DOWELS SHALL BE INSTALLED WITH NEOPRENE AND RUBATEX PADS IN PLACE, ALONG WITH THE 2" I.D. PIPE WITH CAP FILLED WITH RUBATEX AS DETAILED.
- B. GOOSENECKS SHALL BE INSTALLED WITH ADDITIONAL REINFORCEMENT AS DETAILED.

APPROVED EPOXY ANCHORING SYSTEMS

- 1. HILTI 'HIT-RE 500-SD' INSTALLED PER I.C.C. ESR-2322
- 2. SIMPSON 'SET-3G' INSTALLED PER I.C.C. ESR-4057
- 3. ALL EPOXY ANCHOR INSTALLATIONS SHALL COMPLY WITH THE SPECIFIED I.C.C. REPORT AND THE
- MANUFACTURERS RECOMMENDATIONS.
- 5. ANY ALTERNATIVE TO THE ABOVE ANCHORING SYSTEMS SHALL HAVE A CURRENT I.C.C. REPORT AND BE SUBMITTED TO THE GOVERNING JURISDICTION AND THE ENGINEER OF RECORD PRIOR TO ANY INSTALLATION.

Q:\/2022\UT-CV-3355-22 The Point Redevelopment\Project Data\02 CAD\2.03 Sheet Files\Construction Drawings\CIVIL\CAD\STRUCTURES\ADDITION VAULTS 07.23.2024\Drawings\UT-CV-3355-22 S 0 GN (GeneralNotes) .dwg - S.0.01 - 8/08/2024 04:35pm, ginger.lindquist

4. ALL EPOXY ANCHOR INSTALLATIONS REQUIRE SPECIAL INSPECTION.

FOUNDATION

- 1. THE CONTRACTOR SHALL REVIEW THE SOIL REPORT 202201-026-002 BY RB&G ENGINEERING, INC. DATED OCTOBER 2023. IF THE CONTRACTOR ENCOUNTERS CONDITIONS OTHER THAN THOSE DESCRIBED IN THE SOILS REPORT, HE SHALL NOTIFY THE GEOTECHNICAL ENGINEER IMMEDIATELY BEFORE PROCEEDING WITH WORK.
- 2. IN THE EVENT THAT THE FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN THAT REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT USED FOR THAT FOOTING AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.
- 3. ALL EXCAVATIONS ADJACENT TO AND BELOW FOOTING ELEVATION FOR OTHER TRADES SHALL BE ACCOMPLISHED PRIOR TO POURING ANY FOOTINGS.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR LATERALLY SUPPORTING ALL RETAINING TYPE FOUNDATION WALLS WHILE COMPACTING BEHIND WALLS AND UNTIL ALL SUPPORTING MEMBERS HAVE BEEN PLACED (SUCH AS FLOOR SLABS). ALL OPEN EXCAVATIONS AND TRENCHES SHALL BE SUPPORTED AND BARRICADED BY CONTRACTOR TO CONFORM WITH OSHA SAFETY STANDARDS.
- 5. THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- 6. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE. 7. UNLESS NOTED OTHERWISE BY THE SOILS REPORT, ALL REQUIRED BACKFILL AND ALL UTILITY
- TRENCHES SHALL BE COMPACTED TO AT LEAST 90% OF THE MAXIMUM DENSITY OBTAINABLE BY THE A.S.T.M. DESIGNATION D-1557 (LATEST EDITION) METHOD OF COMPACTION.
- 8. A COMPACTION REPORT MUST BE SUBMITTED TO AND APPROVED BY THE GOVERNING JURISDICTION PRIOR TO PLACEMENT OF ANY CONCRETE ON FILL.
- 9. IT IS REQUIRED THAT THE SOILS ENGINEER SUBMITS VERIFICATION TO THE GOVERNING JURISDICTION THAT FOUNDATION CONSTRUCTION IS IN ACCORDANCE WITH THE RECOMMENDATIONS AND CONCLUSIONS OF HIS REPORT.
- 10. PRIOR TO REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE GEOTECHNICAL ENGINEER SHALL CERTIFY THAT:
- THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT. THE ACTUAL SOIL CONDITIONS ARE CONSISTENT WITH THE ASSUMPTIONS MADE IN THE SOIL
- REPORT THE FOUNDATION EXCAVATIONS ARE TO THE PROPER DEPTH OR BEARING STRATA.

EXCAVATION AND STRUCTURAL FILL

CONSTRUCTING THE UNDERDRAIN SHALL BE PERFORMED BY EXCAVATING 12 INCHES BELOW THE BOTTOM OF THE FLOOR SLAB, INSTALLING 6 INCHES OF STRUCTURAL FILL, THEN A NON-WOVEN GEOTEXTILE FABRIC, THEN INSTALLING 6 INCHES OF FREE DRAINING GRAVEL. 2-INCH DIAMETER PERFORATED PVC PIPES SHOULD BE INSTALLED AT ABOUT 15-FOOT SPACING WITHIN THE 6-INCH THICK FREE DRAINING LAYER, AND THE PERFORATED PIPES SHOULD BE CONNECTED TO A SOLID COLLECTOR PIPE DESIGNED TO CARRY THE WATER TO A DISCHARGE LOCATION. THE MATERIALS FOR THE UNDERDRAIN SHALL HAVE THE FOLLOWING PROPERTIES:

STRUCTURAL FILL:

- 3-INCH MINUS GRANULAR SOIL • 70 – 100% PASSING ³/₄-INCH SIEVE
- 5 20% PASSING NO. 200 SIEVE
- MOISTURE CONDITIONED ±2% FROM OPTIMUM MOISTURE CONTENT
- PLACED IN LOOSE LIFTS ≤ 8 INCHES THICK BELOW FOUNDATIONS: COMPACTED TO AT LEAST 95% OF THE MAXIMUM LABORATORY
- DENSITY DETERMINED BY ASTM D1557 (MODIFIED PROCTOR) ADJACENT TO STRUCTURES, BUT NOT BELOW FOUNDATIONS: COMPACT TO AT LEAST 90% OF THE MAXIMUM LABORATORY DENSITY

GEOTEXTILE FABRIC:

 NON-WOVEN WEIGHT ≥ 8 OZ/YD²

FREE DRAINING GRAVEL

- 1-INCH MINUS ROCK ≤5% PASSING NO. 30 SIEVE
- PLACED IN LOOSE LIFTS ≤ 12 INCHES THICK
- COMPACTED WITH AT LEAST 3 PASSES OF A VIBRATORY COMPACTOR WEIGHING AT LEAST 5 TONS, OR 5 PASSES OF TRENCH COMPACTOR WEIGHING AT LEAST 1.5 TONS

BUILDING CRITERIA

GOVERNING CODE OCCUPANCY CATEGORY GRAVITY DESIGN DATA-RESERVOIR

WIND DESIGN DATA SNOW DESIGN DATA

SEISMIC DESIGN INFO

FLOOD DESIGN DATA

SOILS REPORT

A.B. ADD'L A.F.F. ARCH'L A.S.T.M. A.W.S. BD BLDG BLK(G) BM B.N. BOT BRG BTWN CFS C.I.S. CL(또) CONS. CLG CLR C.M.L.&C. C.M.U. COL CONC CONN CONT CNTR CNTRSNK CS DBL DFL DIAG DIA / Ø D.J. DN do DWG DWL EΑ E.F. E.F.O. EL(ELEV) ELECT E.N. EQ EQUIP E.S. E.W. EXIST(E) EXP EXT F.D. FDN F.F. FG FLR F.N. F.O. F.O.C. FRMG F.S. FT FTG GA GALV GLB GRD GYP HD HDR HGR HORIZ(H) H.A.B. HSS ΗT HWL SECTION U.N.O. VERT(V) W/ W/O WD W.O. WSTP WТ W.W.O.

division of

Facilities Construction and Management

Horrocks

Pleasant Grove, UT 84062

(801) 763-5100

www.horrocks.com

THE POINT

ADDITIONAL WATER LINES

DRAPER, UTAH

SSUE DATE: AUG 2024

DRAWN BY: CHK'D BY BB COPYRIGHT: 2024

SHEET TITLE

GENERAL NOTES I

S.0.01

SHEET NUMBER

PAGE PAGE #

Ss = 1.66 and S1 = 0.55 Fa = 1.01 and Fv = 1.4 Sds = 1.12 and Sd1 = 0.52 Design Category D

PIPE SUPPORT SEISMIC COEFFICIENTS FOR OTHER MECHANICAL OR ELECTRICAL COMPONENETS ap = 1.0 AND Rp=1.5

NONE

SOILS DESIGN DATA-RESERVOIR

ALLOWABLE BEARING PRESSURE = 4500 PSF COEFFICIENT OF FRICTION = 0.45

- ACTIVE PRESSURE = 35 PCF AT-REST PRESSURE = 56 PCF
- ALLOWABLE PASSIVE PRESSURE = 437 PSF SEISMIC-ACTIVE PRESSURE = 39 PCF

INTERNATIONAL CODE COUNCIL

INSIDE DIAMETER

KIPS (1,000 LB.)

KNOCK OUT

POUND

LIVE LOAD

INTERIOF

INVERT

JOIST

JOINT

INTERIOR FACE OF

SEISMIC-PASSIVE PRESSURE REDUCTION = 100 PCF

THE POINT WATER TANK STORAGE TANKS -- 202201-026-002 OCTOBER 2023 - RB&G ENGINEERING, INC.

I.C.C.

I.F.O

INT

INV

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LB

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MECH

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MIN

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N.T.O.

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PLF

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RF

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SHTG

REINF

REQ'D

OPNG

ID

ABBREVIATIONS

ANCHOR BOLT ADDITIONAL ABOVE FINISHED FLOOR ARCHITECTURAL AMERICAN SOCIETY FOR **TESTING AND MATERIALS** AMERICAN WELDING SOCIETY BOARD BUILDING BLOCK(ING) BFAM BOUNDARY NAIL BOTTOM BEARING BETWEEN COLD FORM METAL STUDS CAST-IN-PLACE CENTER LINE CONSTRUCTION JOINT CEILING CLEAR(ANCE) CEMENT MORTAR LINED AND COATED CONCRETE MASONRY UNIT COLUMN CONCRETE CONNECTION CONTINUOUS CENTER(ED) COUNTERSINK CHANNEL SIZE PENNY DOUBLE DOUGLAS FIR/LARCH DIAGONAL DIAMETER DEAD LOAD DOWN DITTO DRAWING DOWEL EACH EACH FACE EXTERIOR FACE OF **ELEVATION** ELECTRICA EDGE NAIL EQUAL EQUIPMENT EACH SIDE EACH WAY EXISTING EXPANSION FXTERIOR FLOOR DRAIN FOUNDATION **FINISH FLOOR FINISHED GRADE** FI OOR FIELD NAIL FACE OF FACE OF CONCRETE FRAMING FAR SIDE FEET(FOOT FOOTING GAUGE GALVANIZED GLUED LAMINATED BEAM GRADE GYPSUM HOLDOWN HEADER HANGER HORIZONTAL HIGH STRENGTH BOLT HOLLOW STRUCTURAL HEIGHT HIGH WATER LEVEL

UNLESS NOTED OTHERWISE VERTICAL WITH WITHOUT WOOD WORK POINT

WATERSTOP WEIGHT

WELDED WIRE FABRIC

LONG LEG HORIZONTA LONG LEG VERTICAL LIGHT WEIGHT MASONRY MAXIMUM MACHINE BOLT MECHANICAL MANUFACTURER MINIMUM NEAR SIDE NORMAL WEIGHT NOMINAL NOT TO SCALE OUTSIDE DIAMETER ON CENTER OPPOSITE HAND OPENING PRECAST CONCRETE PLATE PLYWOOD PANEL POUNDS PER LINEAL FOOT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TREATED POST-TENSIONED POLYVINYL CHLORIDE PIPE REDUCED BEAM SECTION ROOF DRAIN REFERENCE REINFORCED/REINFORCING REQUIRED ROOF ROUGH SAWN SCHEDULE SECTION SHEET SHEATHING SIMILAR SEISMIC LOAD RESISTING SYSTEM SHEET METAL SCREW SQUARE SELECT STRUCTURAL STAINLESS STEEL STAGGERED STANDARD STIFFENER STEEL STRUCTURAL SYMMETRICAL TOP OF CURB TOP AND BOTTOM TONGUE AND GROOVE THICK THICKENED THREADED THROUGH TOP OF TYPICAL

Know what's below. Call before you dig.

STATEMENT OF SPECIAL INSPECTION

- 1. PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE APPROPRIATE SECTIONS OF CHAPTER 17 OF THE BUILDING CODE FOR THE ITEMS SHOWN IN THE TABLE BELOW ALONG WITH ANY ADDITIONAL INSPECTIONS AS REQUIRED BY THE OWNER, BUILDING OFFICIAL, ENGINEER OR ARCHITECT AS THEY SEE FIT.
- 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
- 3. WHERE SPECIAL INSPECTION IS REQUIRED, IT MUST BE PERFORMED BY A CERTIFIED SPECIAL INSPECTOR EMPLOYED BY THE OWNER & APPROVED BY THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL DEMONSTRATE COMPETENCE FOR THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION TO THE BUILDING OFFICIAL AND STRUCTURAL ENGINEER, PER SECTION 1704.2.1 OF THE BUILDING CODE. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE GOVERNING JURISDICTION TO PERFORM THE TYPES OF INSPECTIONS SPECIFIED.

PROVIDE SPECIAL INSPECTION REPORTS TO THE STRUCTURAL ENGINEER WITHIN 7 DAYS FROM THE DAY OF INSPECTION.

- 4. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE SPECIAL INSPECTOR SHALL FURNISH COPIES OF INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO HORROCKS ENGINEERS FOR REVIEW WITHIN SEVEN (7) DAYS OF THE WORK. EACH REPORT SHALL BE SIGNED BY A LICENSED ENGINEER OR ARCHITECT. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED TO THE BUILDING OFFICIAL AND HORROCKS ENGINEERS. HORROCKS ENGINEERS SHALL BE NOTIFIED IMMEDIATELY OF ANY TEST WHICH INDICATES NON-COMPLIANCE WITH APPLICABLE CODES OR REQUIREMENTS OF THESE PLANS, PER SECTION 1704.2.4 OF THE BUILDING CODE.
- 5. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTORS KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE, TO THE BUILDING OFFICIAL AND TO HORROCKS ENGINEERS, PER SECTION 1704.2.4 OF THE BUILDING CODE.
- 6. AN APPLICATION OF OFF-SITE FABRICATION MUST BE SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO FABRICATION.
- 7. A CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION MUST BE COMPLETED AND SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO ERECTION OF PREFABRICATED COMPONENTS. SPECIAL INSPECTION REQUIRED PER SECTION 1704.2.5 OF THE BUILDING CODE.
- 8. SPECIAL INSPECTION OF SHOP FABRICATION AND SHOP WELDING IS NOT REQUIRED FOR CERTIFIED FABRICATOR AS REQUIRED BY THE STRUCTURAL STEEL SECTION OF THE GENERAL STRUCTURAL NOTES.
- 9. THE CONSTRUCTION INSPECTIONS LISTED ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY SECTION 110 OF THE BUILDING CODE. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A CITY INSPECTOR. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT APPROVAL OF THE CITY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.
- 10. SPECIAL INSPECTION TABLES:

CONCRETE CONSTRUCTION (IBC 1705.3 & 1705.12.1)

Item			Detailed Instructions and Frequencies
Reinforcing steel, including prestressing tendons	Continuous	Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the
			manufacturer's instructions and/or evaluation report.
Welding of reinforcing steel	Continuous	Periodic	Visually inspect all welds and also verify weldability of reinforcing steel based upon carbon equivalent and in accordance with AWS D1.4. Continuously inspect any welds over 5/16" thick.
Cast-in bolts & embeds	Continuous	Periodic	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used.
Post-installed anchors or dowels	Continuous	Periodic	All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report. Horizontally or upwardly inclined anchors that resist sustained tension loads require continuous inspection and approved installers.
Use of required mix design	Continuous	Periodic	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 19, 26.4.3, 26.4.4; and IBC 1904.1, 1904.2.
Concrete sampling for strength tests, slump, air content, and temperature	Continuous	Periodic	
Concrete & shotcrete placement	Continuous	Periodic	
Curing temperature and techniques	Continuous	Periodic	Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High- early-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 26.5.3-26.5.5). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
Pre-stressed concrete	Continuous	Periodic	ACI 318 26.10
Erection of precast concrete	Continuous	Periodic	Verify that all precast elements are lifted, assembled and braced in accordance with the approved construction documents.
Precast concrete diaphragm connections or reinforcement classified as moderate or high deformability elements in seismic design category C-F.	Continuous	Periodic	 Inspect connections and reinforcement in the field for: a. Installation of the embedded parts b. Completion of the continuity of reinforcement across joints. c. Completion of connections in the field.
Installation tolerances of precast	Continuous	Periodic	
Strength verification	Continuous	Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons.
Formwork	Continuous	Periodic	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.

Special Inspection, Material Testing & Structural Observation Items Required by Chapter 17 of the 2021 IBC

Indicate items requiring special inspection, structural testing, or structural observations by checking the appropriate box. All items not requiring inspection/testing should be removed from the form. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases "periodic" inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. The "Detailed Instructions & Frequency" provides a description of the presumed requirements for tasks requiring "periodic" inspections. The design professional in responsible charge should revise the requirements as needed on a project-specific basis.

FABRICATORS (IBC 1704.2.5.1 & 1705.10) Approved Fabricator Yes No

abricators Name:	
abricators plant location	
equired In-plant aspections	Steel Constru

Fabricators plant location						
Required In-plant Steel Construction Concrete Construction Wood Construction						
Inspections Cold-formed Construction Other: Other: Other:						
TDUCTUDAL STEEL (IBC 1705 2.1. 1705 12.1. & 1705 13.1)						
Item Detailed Instructions and Frequencies						
PRIOR TO WELDING (TABLE	N5.4-1, AISC 360-	-16):				
Welder qualification records	Observe	Perform	Verify welder qualification records and continuity records.			
Welding procedures (WPS) and consumable certificates	Observe	Perform				
Material identification	🛛 Observe	Perform	Verify type and grade of material.			
Welder identification	Observe 🛛	Perform	Confirm a system is in place by which a welder who has welded a joint or member can be identified.			
Fit-up groove welds	Observe 🛛	Perform	Verify joint preparation, dimensions, cleanliness, tacking, and backing.			
Fit-up of CJP welds to HSS T-, Y- and K- joints without backing	Observe	Perform	Verify joint preparation, dimensions, cleanliness and tacking.			
Access holes	🛛 Observe	Perform	Verify configuration and finish.			
Fit-up of fillet welds	Observe 🛛	Perform	Verify dimensions, cleanliness and tacking.			
DURING WELDING (TABLE N	5.4-2, AISC 360-10	6):				
Control and handling of welding consumables	Observe	Perform	Verify packaging and exposure control.			
Cracked tack welds	Observe	Perform	Verify that welding does not occur over cracked tack welds.			
Environmental conditions	Observe	Perform	Verify wind speed is within limits as well as precipitation and temperature.			
WPS followed	Observe	Perform	Verify items such as settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position.			

SOILS CONSTRUCTION (IBC 1705.6) Itom

nem	
Verify subgrade is adequate to	🗌 Conti
achieve design bearing capacity	
Verify excavations extend to	Conti
proper depth and material	
Verify that subgrade has been	Conti
appropriately prepared prior to	
placing compacted fill	
Perform classification and testing	Conti
of compacted fill materials	
Verify proper materials, densities	🛛 🖾 Conti
and lift thicknesses during	
placement and compaction.	

Special Inspectors Shall:

• Be approved by the Building Official prior to performing any duties;

- Inspection reports are to meet the requirements of IBC 1704.2.4 and DFCM standards;
- Building Official within 48 hours of performing inspections;

Office of the State Building Official 4315 S 2700 W Taylorsville, UT 84129 Phone: (801) 538-3018 Website: http://dfcm.utah.gov/

Welding techniques	Observe Observe	Perform	Verify interpass and final cleaning, each pass is within profile limitations and quality of each pass	
Headed stud anchors	Observe	Perform	Verify placement and installation of head stud anchor	
AFTER WELDING (TABLE N5.4	4-3, AISC 360-16)	:		
Welds cleaned	Observe	Perform	Verify that welds have been properly cleaned.	
Size, length, and location of welds	Observe	Perform	Verify the size, length and location of welds.	
Welds meet visual acceptance criteria	Observe	Perform	Verify that welds meet crack prohibition, base metal fusion, profile, size, undercut, and porosity provisions.	
Arc strikes	Observe	Perform	Verify that arc strikes do not exist outside the permanent weld areas.	
k-area	Observe	Perform	When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks.	
Backing & weld tabs removed	Observe	Perform	If required on the approved construction documents, verify that back and weld tabs are removed.	
Repair activities	Observe	Perform	Verify that repair activities are performed in accordance with AISC 360 and AWS D1.1.	
Documentation	Observe	Perform	Document the acceptance or rejection of the welded joint or member.	
Prohibited welds	Observe	Perform	Verify that no prohibited welds have been added with the approval of the engineer of record.	
NONDESTRUCTIVE TESTING	(SECTION N5, A	ISC 360-16):		
CJP welds (Risk Cat. II)	Observe	Perform	UT testing shall be performed on 10% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16- inch thick or greater. (This must be performed on 100% of CJP welds in SDC 'D-F' per AISC 341.)	
CJP welds (Risk Cat. III or IV)	Observe	Perform	UT testing shall be performed on <u>all</u> CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16-inch thick or greater.	
Welded joints subject to fatigue	Observe	Perform	Welded joints subject to fatigue (see Table A-3.1 of AISC 360) shall have radiographic or UT testing	
PRIOR TO BOLTING (TABLE N			11100 5007 shull have fuctor stuping of 01 tosting.	
Not required if only snug_ti	N5.6-1, AISC 360-	16): ified [ner Sectio	n N5 6(1) of AISC 360-161	
Not required if only snug-ti Certifications of fasteners	N5.6-1, AISC 360- ight joints are spec	16): <i>ified [per Sectio</i> ⊠ Perform	n N5.6(1) of AISC 360-16]. Verify that manufacturer's certificates are available for	
 Not required if only snug-tit Certifications of fasteners Fasteners marked 	N5.6-1, AISC 360- ight joints are spec	16): <i>ified [per Sectio</i> ⊠ Perform □ Perform	<i>n N5.6(1) of AISC 360-16].</i> Verify that manufacturer's certificates are available for fastener materials. Verify that fasteners have been marked in accordance with ASTM requirements	
 Not required if only snug-tit Certifications of fasteners Fasteners marked Proper fasteners for joint 	N5.6-1, AISC 360- ight joints are spec Observe	16): <i>ified [per Sectio</i> Perform Perform Perform	 <i>n N5.6(1) of AISC 360-16].</i> Verify that manufacturer's certificates are available for fastener materials. Verify that fasteners have been marked in accordance with ASTM requirements. Verify grade, type, and bolt length if threads are excluded from the shear plane. 	
Not required if only snug-tit Certifications of fasteners Fasteners marked Proper fasteners for joint Proper bolting procedure	N5.6-1, AISC 360- ight joints are spec Observe	16): <i>ified [per Sectio</i> Perform Perform Perform Perform	 <i>n N5.6(1) of AISC 360-16].</i> Verify that manufacturer's certificates are available for fastener materials. Verify that fasteners have been marked in accordance with ASTM requirements. Verify grade, type, and bolt length if threads are excluded from the shear plane. Verify proper procedure is used for the joint detail. 	
 Not required if only snug-tit Certifications of fasteners Fasteners marked Proper fasteners for joint Proper bolting procedure Connecting elements 	N5.6-1, AISC 360- ight joints are spec Observe Observe Observe Observe Observe Observe Observe	16): ified [per Sectio Perform Perform Perform Perform Perform Perform Perform	 <i>n N5.6(1) of AISC 360-16].</i> Verify that manufacturer's certificates are available for fastener materials. Verify that fasteners have been marked in accordance with ASTM requirements. Verify grade, type, and bolt length if threads are excluded from the shear plane. Verify proper procedure is used for the joint detail. Verify appropriate faying surface condition and hole preparation, if specified, meet requirements. 	
 Not required if only snug-tit Certifications of fasteners Fasteners marked Proper fasteners for joint Proper bolting procedure Connecting elements Pre-installation verification testing 	N5.6-1, AISC 360- ight joints are spec Observe Observe	16): ified [per Section Perform Perform Perform Perform Perform Perform Perform Perform	 <i>n N5.6(1) of AISC 360-16].</i> Verify that manufacturer's certificates are available for fastener materials. Verify that fasteners have been marked in accordance with ASTM requirements. Verify grade, type, and bolt length if threads are excluded from the shear plane. Verify proper procedure is used for the joint detail. Verify appropriate faying surface condition and hole preparation, if specified, meet requirements. Observe and document verification testing by installation personnel for fastener assemblies and methods used. 	

		0			
DURING BOLTING (TABLE N	5.6-2, AISC 360-1	6):	N5 ((1) ((190) 200 10)		
Not required if only snug-tight joints are specified [per Section N5.6(1) of AISC 360-16].					
Not required for pretensioned joints using turn-op-ine-nut method with match-marking, direct-tension-indicators, or traited for the second					
Extense assambling and for the formation of the formation					
Fastener assemblies		renom	condition proced in all holes, and weathers are		
			positioned as required		
Snug tight prior to pretensioning		Derform	Verify that joints are brought to spug tight condition		
Shug-tight prior to pretensioning			prior to pretensioning operation		
Fastener component	Observe	Perform	Verify that fastener component is not turned by wrench		
r astener component			prevented from rotating		
Pretensioned fasteners	Observe	Perform	Verify that fasteners are Pretensioned in accordance		
Tretensioned Tasteners			with RCSC Specification progressing systematically		
			from the most rigid point toward the free edges		
		1	from the most right point to ward the nee edges.		
AFTER BOLTING (TABLE N5.	5-3, AISC 360-16)	:			
Documentation	Observe	Perform	Document the acceptance or rejection of bolted		
			connections.		
OTHER STEEL INSPECTIONS	(SECTION N5.7	& N5.8, AISC 3	360-16; Tables J8.1 & J10.1, AISC 341-16):		
Galvanized structural steel	Observe	Perform	Verify that exposed cut surfaces of galvanized		
			structural steel does not include cracks prior to		
			galvanizing the surface.		
Structural steel details	🛛 Observe	Perform	All fabricated steel or steel frames shall be inspected to		
			verify compliance with the details shown in the		
			approved construction documents, such as braces,		
			stiffeners, member locations, and proper application of		
			joint details at each connection.		
Anchor rods and other	🛛 Observe	Perform	Shall be on the premises during the placement of		
embedments supporting structural			anchor rods and other embedments supporting		
steel			structural steel for compliance with construction		
			documents. Verify the diameter, grade, type, and length		
			of the anchor rod or embedded item, and the extent or		
			depth of embedment prior to placement of concrete.		
Reduced beam sections (RBS)	Observe	Perform	Verify contour and finish as well as dimensional		
			tolerances (see Table J8.1 of AISC 341-16).		
Protected zones	☐ Observe	🖂 Perform	Verify that no holes or unapproved attachments are		
			made within the protected zone (see Table J8.1 of AISC		
			341-16).		
H-piles	☐ Observe	🖂 Perform	Verify that no holes or unapproved attachments occur		
			within the protected zones of piling (see Table J10.1 of		
			<i>AISC 341-16</i>).		

require seismic restraint. the attached checklist.

NOTES:

		Detailed Instructions and Frequencies
ious	Periodic	Prior to placement of concrete.
ious	Periodic	Prior to placement of compacted fill or concrete.
ious	Periodic	Prior to placement of compacted fill.
ious	Periodic	All materials shall be checked at each lift for proper
		classifications and gradations not less than once for each 10,000ft ² of surface area.
ious	Periodic	Verify use of proper materials and procedures in accordance with the geotechnical report. Verify densities and lift thicknesses during placement and compaction of compacted fill.

• Provide proof of licensure as a special inspector by the State of Utah for each type of inspection;

• Inspection reports are to be submitted to the code consultant, architect, DFCM project manager, and the State of Utah

• A final inspection report shall be submitted following completion of the project documenting the types of special

inspections performed and a statement indicating that the structure is in compliance with the approved construction documents and applicable codes (see IBC 1704.2.4).

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Nonstructural Component Checklist

The attached checklist must be provided near the front of the construction plans of all DFCM projects involving new construction, building additions, or the addition of new or replaced components. One box must be checked within each row. Comments should be provided noting the particular component(s) that

Please review the "DFCM Guidelines for Seismic Restraint of Nonstructural Components" handout for more clarification on the requirements for non-structural components and an example of how to fill out

Last Revised: 10/2016

NONSTRUCTURAL COMPONENT CHECKLIST

ITEM DESCRIPTION	NOT REQUIRED	ON CONST. DOCUMENTS	DEFERRED SUBMITTAL	COMMENTS			
Architectural Components:							
Interior Nonstructural Walls & Partitions	Х						
Cantilever Elements (i.e. parapets, etc.)	Х						
Exterior Nonstructural Wall Elements	Х						
Veneer	Х						
Penthouses	Х						
Ceilings (i.e. suspended grid or hard-lid)	Х						
Cabinets (i.e. storage cabinets, equip, etc.)	Х						
Access Floors	Х						
Storage Racks	Х						
Appendages & Ornamentations	Х						
Signs & Billboards	Х						
Other:	Х						
Other:	Х						
MEP Components:							
Fire Sprinklers	Х						
Mechanical Equipment (i.e. HVAC, fans, air handlers, boilers, furnaces, tanks, chillers, water heaters, heat exchangers, evaporators, engines, turbines, pumps, compressors, MFR equipment, etc.)	Х						
Electrical Equipment (i.e. generators, batteries, inverters, transformers, MCC, panel boards, switch gear, cabinets, etc.)			х				
Elevator & Escalator Components	Х						
Communication Equipment, Computers, Instrumentation, and Controls	х						
Roof-mounted Chimneys, Stacks, Cooling & Electrical Towers	Х						
Lighting Fixtures	Х						
Vibration Isolated Components	Х						
Piping & Conduit Systems			Х	PIPE SUPPORTS, PER 3/C.3.18			
Ductwork (including in-line components)	Х						
Conveyors	Х						
Cable Trays	Х						
Other:	Х						

1. Deferred submittals for seismic restraint of nonstructural components must be submitted to the DFCM Building Official a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to inspectors. In the event that the submittal is deficient additional time may become necessary. 2. When seismic restraint of non-structural components is installed prior to receiving DFCM approval it shall not be covered or concealed until receiving both plan review and inspection approval. Further, installers are proceeding at their own risk until plan review and inspection approval occurs.

3. The requirements for seismic restraint of nonstructural components cannot be satisfied by a general reference to Design Manuals. The design professional may utilize these manuals as a basis of their design, but must provide all supporting documentation to ensure that the design conforms to the requirements of ASCE 7-05, Chapter 13. 4. Submittals must include details of the proposed seismic restraint of nonstructural components. These details must show specific information relating to the materials, type, size, and locations of anchorages; materials used for bracing; attachment requirements of bracing to structure and component; and locations of transverse and longitudinal sway bracing and rod stiffeners. Submittals may also require structural calculations, engineering reports, test data, and/or specifications to ensure code compliance.

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