COBABE RANCH 0.5 MG WATER TANK EDEN CROSSING (PWS NO. 29132)



CALL BLUESTAKES @ 811 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.



ABBREVIATIONS AND LEGEND GENERAL NOTES HORIZONTAL CONTROL PLAN SITE AND UTILITY PLAN PLAN AND PROFILE TANK OUTLET PLAN AND PROFILE TANK INLET PLAN AND PROFILE TANK DRAIN PLAN AND PROFILE TANK OVERFLOW PLAN AND PROFILE LEAK DET. / FOUND. DRAI EXCAVATION GRADING PLAN **OVERALL GRADING PLAN** FINAL GRADING PLAN C-402 **EROSION CONTROL PLAN** C-500 **EROSION CONTROL DETAILS CIVIL DETAILS** C-600 CIVIL DETAILS C-601 CIVIL DETAILS C-602 C-603 **CIVIL DETAILS**

C-50

NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF UTAH DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS." THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

CONTRACTOR FURTHER AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

COBABE RANCH EDEN, UTAH

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GENERAL NOTES

UTILITY DISCLAIMER

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND / OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE. MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ALL WORK SHALL CONFORM TO APWA STANDARDS & SPECIFICATIONS. CALL BLUE STAKES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. BENCHMARK ELEVATION = CONTROL POINT GE CAP, NEAR EAST QUARTER CORNER OF NORTHEAST QUARTER CORNER OF SECTION 26, TOWNSHIP 7 NORTH, RANGE 1 EAST SALT LAKE PRINCIPAL MERIDIAN ELEV. = 5321.77'. COVER BENCHMARK PROJECT NUMBER 14018A **8**6 CONTROL POINT GE CAP CALL BLUESTAKES PROJECT MANAGER DESIGNED BY NEAR EAST QUARTER CORNER OF @ 811 AT LEAST 48 HOURS R. ROUSSELLE C. DUNKEL NORTHEAST QUARTER CORNER OF SECTION PRIOR TO THE 26, TOWNSHIP 7 NORTH, RANGE 1 EAST SALT COMMENCEMENT OF ANY LAKE PRINCIPAL MERIDIAN Know what's below. CONSTRUCTION. ELEV = 5321.77'



DATE PRINTED July 9, 2025



PER/CONTRACTOR

REPRESENT WORK IN PROGRESS, ARE SUBJECT TO CHANGE, AND DO NOT CONSTITUTE A FINISHED ENGINEERING PRODUCT. ANY WORK UNDERTAKEN BY DEVELOPER OR CONTRACTOR BEFORE PLANS ARE APPROVED IS UNDERTAKEN AT THE SOLE RISK OF THE DEVELOPER, INCLUDING BUT NOT LIMITED TO BIDS, ESTIMATION, FINANCING, BONDING, SITE CLEARING, GRADING, INFRASTRUCTURE CONSTRUCTION, ETC.



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ABBREVIATIONS

@	AT	EOA	EDGE OF ASPHALT
Ø	DIAMETER	EQUIP	EQUIPMENT
%	PERCENTAGE	ES	EDGE OF SHOULDER
•	FEET	EST	ESTIMATE
"	INCHES	FVC	END OF VERTICAL CURVE
зрн		EV0 EW	FACH WAY
0111		EXC	
٨R		EX	EXISTING
ABUT		EXIST	EXISTING
AC	ASBESTOS CEMENT PIPE OR ASPHALT CONCRETE		
ADT	AVERAGE DAILY TRAFFIC	FD	FLOOR DRAIN
APPROX	APPROXIMATELY	FDN	FOUNDATION
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	FEN COR	FENCE CORNER
AL	AIR LINE	FE	FIRE EXTINGUISHER
ALUM	ALUMINUM	FF	FINISH FLOOR
AR	ACCESSIBLE ROUTE	FFC	FRONT FACE OF CURB
ASPH	ASPHALT	FG	FINISH GRADE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FH	FIRE HYDRANT
AWWA	AMERICAN WATER WORKS ASSOCIATION	FIN	FINISH
AZ	AZIMUTH		
		FL	FLOW LINE / FLANGE
BAL	BALANCE	FLR	FLOOR
BEG	BEGINNING / BEGIN	FRP	
BEC		FT	FEET
		FTG	EOOTING
		110	TOOTING
		0	646
		G	GAS
BIVI	BENCHMARK	GA	GAGE / GAUGE
BLK	BLOCK	GALV	GALVANIZED
BOD	BIOCHEMICAL OXYGEN DEMAND	GB	GRADE BREAK
BOS	BOTTOM OF STEP	GEN	GENERAL
BOT	BOTTOM	GF	GARAGE FLOOR
BRG	BEARING	GLB	GLUED LAMINATED BEAM
BSMT	BASEMENT	GM	GAS METER
BTWN	BETWEEN	GSP	GALVANIZED STEEL PIPE
BVC	BEGIN VERTICAL CURVE	GV	GATE VALVE
		•••	•==
C	CURVE	HC	ΗΔΝΙΠΙΟΔΡ / ΗΥΡΟΟΗΙ ΟΒΙΤΕ
C&C		HDC	
CALC			
6-6		HORIZ	HORIZONTAL
CCW	COUNTER CLOCKWISE	HP	HIGH POINT
CF	CURB FACE	HSS	HOLLOW STRUCTURAL SECTION
CFS	CUBIC FEET PER SECOND	HWL	HIGH WATER LEVEL
CIP	CAST IRON PIPE	HWY	HIGHWAY
CJ	CONSTRUCTION JOINT	HX	HEAT EXCHANGER
С	CENTER LINE	HYD	HYDRANT
CLR	CLEARANCE		
CMP	CORRUGATED METAL PIPE	ID	INSIDE DIAMETER
CMP-A	CORRUGATED METAL PIPE - ARCH	IE	INVERT ELEVATION
со	CLEAN OUT	IJ	ISOLATION JOINT
COB	CLEAN OUT BOX	IN	INCH
COL	COLLIMN	INFO	
COMM		INIV	INVERT
CONC	CONCRETE		
CONC	CONNECT	INN	IRRIGATION
CONN	CONNECT	IOT	
CONT	CONTINUOUS	JCT	JUNCTION
COP	CENTER OF PIPE		
COR	CORNER	K	RATE OF VERTICAL CURVATURE
CTR	CENTER		
CU FT	CUBIC FEET	L	LENGTH
CU YD	CUBIC YARD	LB	POUND
CULV	CULVERT	LD	LAND DRAIN
CW	CLOCKWISE	LF	LINEAR FEET
		LIC	LICENSE
D	DEGREE	LIN	LINEAR / LINEAL
DET	DETAIL	LP	LOW POINT / LIGHT POLE
DIA	DIAMETER	LS	LAND SURVEYOR
DI		LT	LEFT
DIP		I WI	LOW WATER LEVEL
וסוס	DRAINLINE	MAG	MAGNETIC
		MAINIT	MAINITENANCE
			MATERIAL
		WAX	
DWG		MB	
DWV	DRAIN WASTE VENT	MH	MANHOLE
		MI	MILE
E	EAST	MIN	MINIMUM
EA	EACH	MISC	MISCELLANEOUS
EB	ELECTRICAL BOX	MJ	MECHANICAL JOINT
EG	EDGE OF GRAVEL	MKR	MARKER
ELEC	ELECTRIC / ELECTRICAL	ML	MIXED LIQUOR
ELEV	ELEVATION	MON	MONUMENT
EMR		MPH	MILES PER HOUR
EMH			
		N	NORTH
ENIT		NG	
EU		NIC	

LEGEND

NPW	NON-POTABLE WATER	THD	THREADED
NO OR #	NUMBER	THK	THICK
NTS	NOT TO SCALE	TKN	TOTAL KIELDAHL NITROGEN
		TOA	TOP OF ASPHALT
00	ON CENTER	TOC	TOP OF CONCRETE
	ON CENTER FACH WAY	TOF	
		TOP	
		TOG	TOP OF GRATE / TOP OF GRAVEL
OFF REV	OFFICE REVISION	TOP	TOP OF PIER
0-0	OUTSIDE TO OUTSIDE	TOW	TOP OF WALL
OHP	OVERHEAD POWER	TOS	TOP OF STEP / TOP OF SLAB
ORIG	ORIGINAL	TSS	TOTAL SUSPENDED SOLIDS
OSB	ORIENTED STAND BOARD	TYP	TYPICAL
PC	POINT OF CURVATURE / PRESSURE CLASS	LIB	
FCC		UG	
PD	PONDEFFLUENT	UNO	UNLESS NOTED OTHERWISE
PE	PLANT EFFLUENT / PLAIN END	UW	UTILITY WATER
PERT	PERFORATED		
PI	POINT OF INTERSECTION / PRIMARY INFLUENT	VC	VERTICAL CURVE
PIV	POST INDICATOR VALVE	VERT	VERTICAL
PL	PROPERTY LINE	VIC	VIC COUPLING
POB	POINT OF BEGINNING	VOL	VOLUME
POC		VPI	
		VFC	
PRC		VPI	
PRO	PROPOSED	VSS	VOLATILE SUSPENDED SOLIDS
PROJ	PROJECT		
PROP	PROPERTY	W	WEST / WATER
PS	PUMP STATION	WAS	WASTE ACTIVATED SLUDGE
PSF	POUNDS PER SQUARE FOOT	WIV	WALL INDICATOR VALVE
PSI	POLINDS PER SOLIARE INCH	WI	WATERLINE
DT			
PVC	POINT OF VERTICAL CURVATURE / POLYVINYL CHLORINE	WO	WEIR OVERFLOW
PVI	POINT OF VERTICAL INTERSECTION	VV/	WITH
PVMT	PAVEMENT	W/O	WITHOUT
PVT	POINT OF VERTICAL TANGENCY		
PW	POTABLE WATER	XING	CROSSING
		X-SEC	CROSS SECTION
ΟΤΥ	ΟΠΑΝΤΙΤΑ		
Q. I		νн	
П			
R DAO			
RAS			
RCP	REINFORCED CONCRETE PIPE		
RCCP	REINFORCED CONCRETE CYLINDER PIPE		
RD	ROOF DRAIN		
REF	REFERENCE		
REINE	REINFORCED		
	REQUIRED		
REV	REVISION		
REV	REVISION RESTRAINED JOINT		
REV RJ ROW	REVISION RESTRAINED JOINT RIGHT OF WAY		
REV RJ ROW RP	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT		
REV RJ ROW RP RR	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD		
REV RJ ROW RP RR RT	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE		
REV RJ ROW RP RR RT RM	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY		
REV RJ ROW RP RR RT R/W	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY		
REV RJ ROW RP RR RT R/W	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY		
REV RJ ROW RP RR RT R/W S	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY		
REV RJ ROW RP RR RT R/W S SAN	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY		
REV RJ ROW RP RR RT R/W S SAN SAN SWR	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SEWER		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SEWER SCHEDULE		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH SD	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SCHEDULE STORM DRAIN		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SAN SWR SCH SD SE	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SCHEDULE STORM DRAIN SECONDARY EFFLUENT		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SAN SWR SCH SD SE SEC	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SEWER SCHEDULE STORM DRAIN SECONDARY EFFLUENT SECONDARY		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH SD SE SEC SEC SEC COR	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SEWER SCHEDULE STORM DRAIN SECONDARY EFFLUENT SECONDARY SECTION CORNER		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH SD SE SEC SEC SEC COR SHT	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SANITARY SEWER SCHEDULE STORM DRAIN SECONDARY EFFLUENT SECONDARY SECTION CORNER SHEFT		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH SD SE SEC SEC COR SEC COR SHT	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SEWER SCHEDULE STORM DRAIN SECONDARY EFFLUENT SECONDARY SECTION CORNER SHEET SAWED JOINT		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH SD SE SEC SEC COR SEC COR SHT SJ SI/T	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SEWER SCHEDULE STORM DRAIN SECONDARY EFFLUENT SECONDARY SECTION CORNER SHEET SAWED JOINT		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH SD SE SEC SEC SEC COR SHT SJ SKT	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SEWER SCHEDULE STORM DRAIN SECONDARY EFFLUENT SECONDARY SECTION CORNER SHEET SAWED JOINT SOCKET		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH SD SE SEC SEC SEC COR SHT SJ SKT SL	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SEWER SCHEDULE STORM DRAIN SECONDARY EFFLUENT SECONDARY SECTION CORNER SHEET SAWED JOINT SOCKET SOLIDS LINE		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH SD SE SEC SEC SEC COR SHT SJ SKT SL SOVFL	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SEWER SCHEDULE STORM DRAIN SECONDARY EFFLUENT SECONDARY EFFLUENT SECONDARY SECTION CORNER SHEET SAWED JOINT SOCKET SOLIDS LINE SURFACE OVERFLOW		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH SD SE SEC SEC COR SEC SEC COR SHT SJ SKT SJ SKT SL SOVFL SPECS	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SEWER SCHEDULE STORM DRAIN SECONDARY EFFLUENT SECONDARY SECTION CORNER SHEET SAWED JOINT SOCKET SOLIDS LINE SURFACE OVERFLOW SPECIFICATIONS		
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REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH SD SE SEC SEC COR SEC SEC COR SHT SJ SKT SJ SKT SL SOVFL SPECS SQ SQ FT	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SEWER SCHEDULE STORM DRAIN SECONDARY EFFLUENT SECONDARY SECTION CORNER SHEET SAWED JOINT SOCKET SOLIDS LINE SURFACE OVERFLOW SPECIFICATIONS SQUARE SQUARE SQUARE FEET		
REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH SD SE SEC SEC COR SHT SJ SKT SJ SKT SL SOVFL SPECS SQ SQ FT SQ YD	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SEWER SCHEDULE STORM DRAIN SECONDARY EFFLUENT SECONDARY SECTION CORNER SHEET SAWED JOINT SOCKET SOLIDS LINE SURFACE OVERFLOW SPECIFICATIONS SQUARE SQUARE SQUARE FEET SQUARE FEET SQUARE YARDS		
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REV RJ ROW RP RR RT R/W S SAN SAN SWR SCH SD SE SEC SEC COR SHT SJ SKT SL SOVFL SPECS SQ SQ FT SQ YD SS ST STA STD STL	REVISION RESTRAINED JOINT RIGHT OF WAY REFERENCE POINT RAILROAD RIGHT / ROUTE RIGHT OF WAY SLOPE / SOUTH SANITARY SANITARY SANITARY SEWER SCHEDULE STORM DRAIN SECONDARY EFFLUENT SECONDARY EFFLUENT SECONDARY SECTION CORNER SHEET SAWED JOINT SOCKET SOLIDS LINE SURFACE OVERFLOW SPECIFICATIONS SQUARE SQUARE SQUARE FEET SQUARE FEET SQUARE YARDS SANITARY SEWER / STAINLESS STEEL STREET STATION STANDARD STEEL		
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NOTE: MAY CONTAIN SYMBOLS OR ABBREVIATIONS THAT ARE NOT USED IN THIS PLAN SET.

----- EXISTING EDGE OF ASPHALT JMENT PROPOSED EDGE OF ASPHALT NUMENT ----- EXISTING STRIPING R AND CAP PROPOSED STRIPING EBAR AND CAP — — x — — EXISTING FENCE ER METER TER METER EXISTING FLOW LINE ER MANHOLE ------ PROPOSED FLOW LINE TER MANHOLE ER BOX — — sd — — EXISTING STORM DRAIN LINE ER VALVE TER VALVE ATER VALVE REDUCER CATCHMENTS HYDRANT — — HWL — HIGHWATER LINE E HYDRANT — — SS — — EXISTING SANITARY SEWER E DEPARTMENT CONNECTION ONDARY WATER VALVE PROPOSED SAN. SWR. SERVICE LINE CONDARY WATER VALVE — — Id — — EXISTING LAND DRAIN LINE GATION BOX ------ PROPOSED LAND DRAIN LINE GATION VALVE RIGATION VALVE — — W — EXISTING CULINARY WATER LINE TARY SEWER MANHOLE NITARY SEWER MANHOLE TARY CLEAN OUT — — SWI — — EXISTING SECONDARY WATER LINE RM DRAIN CLEAN OUT BOX ORM DRAIN CLEAN OUT BOX RM DRAIN INLET BOX — — irr — — EXISTING IRRIGATION LINE RM DRAIN CATCH BASIN ------ IRR ------ PROPOSED IRRIGATION LINE ORM DRAIN CATCH BASIN ------ ohp ------ EXISTING OVERHEAD POWER LINE RM DRAIN COMBO BOX — — e — EXISTING ELECTRICAL LINE ORM DRAIN COMBO BOX — — g — — EXISTING GAS LINE RM DRAIN CLEAN OUT — — t — — EXISTING TELEPHONE LINE RM DRAIN CULVERT AR ACCESSIBLE ROUTE ORM DRAIN CULVERT · · · · · · · · SAW CUT LINE AG INLET PROTECTION STRAW WATTLE N-LINE INLET PROTECTION TRICAL MANHOLE LIMITS OF DISTURBANCE TRICAL BOX EXISTING WALL ISFORMER PROPOSED WALL EXISTING CONTOURS ITY POLE PROPOSED CONTOURS PUBLIC DRAINAGE EASEMENT METER EXISTING ASPHALT TO BE REMOVED MANHOLE PROPOSED ASPHALT VALVE EXISTING CURB AND GUTTER PHONE MANHOLE PROPOSED CURB AND GUTTER PHONE BOX FIC SIGNAL BOX TRANSITION TO REVERSE PAN CURB E BOX CONCRETE TO BE REMOVED EXISTING CONCRETE PROPOSED CONCRETE

T ELEVATION POT ELEVATION **/ DIRECTION**

PROPOSED LAND DRAIN SERVICE LINE BUILDABLE AREA WITHIN SETBACKS PROPOSED REVERSE PAN CURB AND GUTTER BUILDING TO BE REMOVED PROPOSED BUILDING



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TANK WATER TAN S NO.29132) (PWS E RANCH UTAH **D M** COBABE RANCH 0.5 N EDEN CROSSING (F COBABE | EDEN, l

ABBREVIATIONS AND LEGEND

FOR CONSTRUCTION 7/9/2025

PRINT DATE 2025-07-09 PROJECT NUMBER 14018A PROJECT MANAGER DESIGNED BY R. ROUSSELLE C. DUNKEL

C-001

GENERAL NOTES

- 1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: DESIGN ENGINEER, LOCAL AGENCY JURISDICTION, APWA (LATEST EDITION), THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), AND OTHER REGULATORY AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF THE WORK WHERE APPLICABLE. THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY. THE LATEST EDITION OF ALL STANDARDS AND SPECIFICATIONS MUST BE ADHERED TO. IF A CONSTRUCTION PRACTICE IS NOT SPECIFIED BY ANY OF THE LISTED SOURCES, CONTRACTOR SHALL CONTACT DESIGN ENGINEER FOR DIRECTION.
- 2.ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS, LOCAL JURISDICTION REQUIREMENTS, STATE REGULATIONS, AND THE MOST RECENT EDITIONS OF THE FOLLOWING: THE INTERNATIONAL PLUMBING CODE, UTAH DIVISION OF DRINKING WATER REGULATIONS, AND APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL ADHERE TO ALL ABOVE-MENTIONED DOCUMENTS UNLESS OTHERWISE NOTED AND APPROVED BY THE ENGINEER.
- 3.SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES, TYPICAL DETAILS, AND SPECIFICATIONS.
- 4.THE CONTRACTOR SHALL REFER TO THE TECHNICAL PROVISIONS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR DRAWINGS.
- 5. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE SUBMITTING A BID OR PRICE TO THE OWNER AND SHALL NOTIFY OWNER OF ANY DISCREPANCIES OR CONFLICTS BEFORE PROCEEDING WITH THE WORK OR SUBMITTING THE BID.
- 6.PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 7. ALL DIMENSIONS, GRADES, AND UTILITY DESIGN SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST BETWEEN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS, PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO THE DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 8.CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE IN ACCORDANCE WITH LOCAL AGENCY JURISDICTION, STATE, OR COUNTY REGULATIONS FOR WORKING IN THE PUBLIC WAY.
- 9. THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE TEMPORARY ERECTION OF BRACING AND SHORING AS REQUIRED FOR STABILITY OF STRUCTURES AND EXCAVATIONS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES AND FOR THE PROTECTION OF WORKERS.
- 10. THE CONTRACTOR SHALL TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THIS INCLUDES, BUT IS NOT LIMITED TO VEHICLE AND EQUIPMENT STAGING, MATERIAL STORAGE AND LIMITS OF TRENCH EXCAVATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNING ENTITY AND/OR INDIVIDUAL PROPERTY OWNER(S) FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.
- 11. PROJECT HORIZONTAL AND VERTICAL DATUM ARE SHOWN ON SHEET C-100.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT SURFACE IMPROVEMENTS.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY SETTLEMENT OF OR DAMAGE TO EXISTING UTILITIES.
- 14. THE CONTRACTOR SHALL FURNISH ALL MATERIALS TO COMPLETE THE PROJECT.
- 15. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY THEIR WORK FORCE. CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.
- 16. NO CHANGE IN DESIGN LOCATION OR GRADE SHALL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE PROJECT ENGINEER.
- 17. NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARING OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED.
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, MAINTAINING, OR RESTORING ALL MONUMENTS AND MONUMENT REFERENCE MARKS WITHIN THE PROJECT SITE. THE CONTRACTOR SHALL CONTACT THE CITY OR COUNTY SURVEYOR FOR MONUMENT LOCATIONS AND CONSTRUCTION DETAILS.
- 19. CONTRACTOR TO LAY OUT AND POTHOLE FOR ALL POTENTIAL CONFLICTS WITH UTILITY LINES ON- OR OFF-SITE AS REQUIRED PRIOR TO ANY CONSTRUCTION, AND THE CONTRACTOR WILL VERIFY DEPTHS OF UTILITIES IN THE FIELD BY POTHOLING A MINIMUM OF 300 FEET AHEAD OF PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNED PIPELINE GRADE AND ALIGNMENT. IF A CONFLICT ARISES DUE TO THE CONTRACTOR'S NEGLIGENCE TO POTHOLE UTILITIES, THE CONTRACTOR SHALL RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO THE OWNER OR ENGINEER.

- 20. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
- 21. THE CONTRACTOR SHALL CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
- 22. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE.
- 23. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST RECENT, ADOPTED EDITION OF ADA ACCESSIBILITY GUIDELINES.
- 24. CONTRACTOR SHALL, AT THE TIME OF BIDDING AND THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH AND SHALL BE BONDABLE FOR AN AMOUNT REQUIRED BY THE OWNER.
- 25. CONTRACTOR SHALL PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THEIR USE DURING CONSTRUCTION.
- 26. CONTRACTOR SHALL ADEQUATELY SCHEDULE INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
- 27. IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT. THERE SHALL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
- 28. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
- 29. CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER ONE SET OF NEATLY MARKED RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
- 30. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE SHALL PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE HIGHEST QUALITY SHALL BE USED.
- 31. ALL EXISTING GATES AND FENCES SHALL REMAIN UNLESS OTHERWISE NOTED ON PLANS. THE CONTRACTOR SHALL PROTECT ALL GATES AND FENCES FROM DAMAGE.
- 32. ALL EXISTING TREES SHALL REMAIN UNLESS OTHERWISE NOTED ON PLANS. THE CONTRACTOR SHALL PROTECT ALL TREES FROM DAMAGE.
- 33. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL OSHA REQUIREMENTS ON THE PROJECT SITE.
- 34. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ANY EQUIPMENT NECESSARY TO DEWATER EXCAVATIONS AS NOTED ON THE PROJECT DRAWINGS.
- 35. THE CONTRACTOR SHALL NOTIFY BLUESTAKES 1-800-662-4111 AT LEAST 48 HOURS PRIOR TO BEGINNING EXCAVATION. THE CONTRACTOR SHALL LOCATE EXISTING WATER LINE AND OTHER UTILITIES BOTH VERTICALLY AND HORIZONTALLY. IF DISCREPANCIES, CONFLICTS OR UNFORESEEN CONDITIONS ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER FOR RESOLUTION.
- 36. ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE SECTIONS OF THE UTAH DIVISION OF DRINKING WATER SERIES 500 RULES, DRINKING WATER FACILITY CONSTRUCTION. DESIGN AND OPERATION.

UTILITY NOTES

- 1. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY BLUE STAKES AT 1-800-662-4111 AT LEAST 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH THE ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. [ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR.] THE CONTRACTOR SHALL COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE FOR THE PROJECT.
- 2.CARE SHALL BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES. EXCAVATION REQUIRED PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. [THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS

AT CONTRACTOR'S EXPENSE.]

- 3. TRENCH BACKFILL MATERIAL AND COMPACTION TESTS SHALL BE CONDUCTED TAKEN PER APWA STANDARD SPECIFICATIONS (LATEST EDITION), SECTION 02221 - BACKFILLING TRENCHES, OR AS REQUIRED BY THE GEOTECHNICAL REPORT IF NATIVE MATERIALS ARE USED. NO NATIVE MATERIALS ARE ALLOWED IN THE PIPE ZONE. THE MAXIMUM LIFT FOR BACKFILLING EXCAVATIONS IS 8-INCHES.
- 4.THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE, CAUSED BY ANY CONDITION INCLUDING SETTLEMENT, TO EXISTING UTILITIES FROM WORK PERFORMED AT OR NEAR EXISTING UTILITIES. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE ROADWAY AND UTILITY FACILITIES. DAMAGE TO EXISTING FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE TO THE SATISFACTION OF THE OWNER OF SAID FACILITIES.
- 5.ALL WATER LINE AND SEWER LINE INSTALLATION AND TESTING SHALL COMPLY WITH LOCAL GOVERNING AGENCY'S STANDARDS OR APWA STANDARDS AND SPECIFICATIONS.
- 6.ALL MANHOLES, HYDRANTS, VALVES, CLEANOUT BOXES, CATCH BASINS, METERS, AND SIMILAR STRUCTURES SHALL BE RAISED OR LOWERED TO FINAL GRADE PER APWA (LATEST EDITION) STANDARDS AND INSPECTOR REQUIREMENTS. CONCRETE COLLARS SHALL BE CONSTRUCTED ON ALL MANHOLES, CLEANOUT BOXES, CATCH BASINS, AND VALVES PER APWA STANDARDS. ALL MANHOLE, CATCH BASIN, OR CLEANOUT BOX CONNECTIONS SHALL BE MADE WITH THE PIPE CUT FLUSH WITH THE INSIDE OF THE BOX AND GROUTED OR SEALED, WITH A CONCRETE COLLAR ON THE EXTERIOR OF THE BOX SURROUNDING PIPE PROVIDING A COMPLETE SEAL.
- 7. THE CONTRACTOR SHALL NOT ALLOW ANY GROUNDWATER OR DEBRIS TO ENTER THE NEW OR EXISTING PIPES DURING CONSTRUCTION.
- 8.SILT AND DEBRIS SHALL BE CLEANED OUT OF ALL STORM DRAIN BOXES. CATCH BASINS SHALL BE MAINTAINED IN A CLEAN CONDITION AS NEEDED UNTIL AFTER THE FINAL BOND RELEASE INSPECTION.
- 9. THE CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF ALL MANHOLE LIDS AND INLET GRATES TO ALLOW ACCESS.
- 10. EACH TRENCH SHALL BE EXCAVATED FOR PIPE TO BE LAID TO THE ALIGNMENT AND GRADE AS REQUIRED. THE TRENCH WALL SHALL BE BRACED SO THAT WORKERS MAY WORK SAFELY AND EFFICIENTLY. ALL TRENCHES SHALL BE DRAINED SO THAT PIPE LAYING MAY TAKE PLACE IN DEWATERED CONDITIONS.
- 11. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES TO PROMPTLY REMOVE AND PROPERLY DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION.
- 12. UTAH STATE REGULATIONS ON THE SEPARATION OF DRINKING WATER AND SEWER LINES SHALL BE FOLLOWED. THESE ARE LISTED UNDER UAC R317-3-2.9.B TO UAC R309-550-7.
- 13. ALL DUCTILE IRON PIPE SHALL BE PRESSURE CLASS OR SPECIAL THICKNESS CLASS CONFORMING TO ANSI/AWWA C150/A21.50 & C151/A21.51 AND AWWA C600 WITH AN 8 MIL. POLYETHYLENE WRAP FOR BURIED INSTALLATIONS.
- 14. ALL DUCTILE IRON FITTINGS SHALL BE RATED FOR WORKING PRESSURES AS SPECIFIED ON THE DRAWINGS.
- 15. POLYVINYL CHLORIDE PIPE SHALL CONFORM TO AWWA C900 (12-INCH DIAMETER OR LESS) OR AWWA C905 (DIAMETER LARGER THAN 12-INCHES) WITH A DIMENSION RATIO (DR) OF 18 OR LESS AND SHALL COMFORM TO ASTM D2774 AND AWWA M23.
- 16. ALL GATE VALVES SHALL BE RESILIENT WEDGE GATE VALVES AND SHALL CONFORM TO AWWA C-509 OR C-515. GATE VALVES INSTALLED IN VAULTS SHALL BE FURNISHED WITH HANDWHEEL OPERATORS. VALVES INSTALLED IN DIRECT BURY APPLICATIONS SHALL BE FURNISHED WITH A TWO-INCH SQUARE OPERATING NUT AND SLIP TYPE, CAST IRON VALVE BOX.
- 17. ALL BUTTERFLY VALVES FOR STANDARD PRESSURE APPLICATIONS SHALL BE TIGHT-CLOSING RUBBER SEAT BUTTERFLY VALVES AND SHALL MEET THE REQUIREMENTS OF AWWA C-504 FOR CLASS 150 B VALVES AND RATED FOR WORKING PRESSURE OF 150 PSI. HIGH PRESSURE BUTTERFLY VALVES SHALL BE RATED FOR WORKING PRESSURES AS SPECIFIED ON THE DRAWINGS.
- 18. ALL BOLTS FOR DIRECT BURY FITTINGS SHALL BE COATED WITH FM GREASE, AND THE ENTIRE FITTING SHALL BE WRAPPED WITH AN 8 MIL. POLYETHYLENE PRIOR TO BACKFILLING.
- 19. THE CONTRACTOR SHALL INSTALL TRACER WIRE AND MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL PIPE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 20. ALL DRINKING WATER LINES, TANKS, WELLS, FITTINGS AND APPURTENANCES SHALL BE INSTALLED, TESTED, AND DISINFECTED PER R309-500 THROUGH 550 PUBLIC DRINKING WATER FACILITY DESIGN AND OPERATION RULES. ALL MATERIAL THAT MAY CONTACT DRINKING WATER, INCLUDING PIPES, GASKETS, LUBRICANTS, O-RINGS, SHALL BE CERTIFIED PER ANSI/NSF 61, CERTIFIED DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS. TO PERMIT FIELD VERIFICATION OF THIS COMPLIANCE, ALL SUCH COMPONENTS SHALL BE APPROPRIATELY STAMPED WITH THE NSF LOGO. FLUSHING AND DISINFECTION OF DRINKING WATER LINES, TANKS, WELLS, FITTINGS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C651. PRESSURE AND LEAK TESTING SHALL COMPLY WITH AWWA C600.
- 21. ALL BURIED MECHANICAL JOINTS SHALL BE RESTRAINED

22. ALL OPEN ENDS OF PIPE SHALL BE EFFECTIVELY SEALED AT THE END OF THE DAY'S WORK AND PIPE SHALL NOT BE DROPPED INTO THE TRENCH.

- 23. PVC PIPE SHALL BE PRESSURE TESTED ACCORDING TO AWWA C605.
- 24. THE WATER LINE TO BE LAID WITHOUT HIGH POINTS OR LOW POINTS, EXCEPT WHERE SHOWN ON THE PLAN AND PROFILE SHEETS.
- 25. DRINKING WATER LINES TO BE INSTALLED WITH MINIMUM OF 48-INCHES OF COVER.

26. HIGH DENSITY POLYETHLENE PIPE (HDPE) SHALL CONFORM TO AWWA M55 AND ASTM D2774.

- 27. THE CONTRACTOR SHALL OBSERVE THE REQUIRED SEPARATION BETWEEN WATER AND SEWER PIPELINES PER UAC R317-3-2.
- 28. ALL ELBOWS, TEES, CROSSES, CAPPED ENDS, VALVES AND OTHER APPURTENANCES SHALL BE FULLY RESTRAINED USING THRUST BLOCKS AND RESTRAINED JOINTS OR OTHER ACCEPTED METHODS UNLESS OTHERWISE NOTED ON THE PROJECT DRAWINGS. THE CONTRACTOR SHALL NOTIFY ENGINEER IF A THRUST BLOCK CANNOT BE POURED FOR A FITTING.
- 29. THE ENGINEER SHALL PROVIDE AN ELECTRONIC FILE SHOWING PIPELINE ALIGNMENT IN COORDINATES TO USE IN PIPELINE STAKING.
- 30. THE CONTRACTOR SHALL COORDINATE ALL RESTORATION EFFORTS WITH THE OWNER AND AGENCIES WITH JURISDICTION.
- 31. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE AND INTERNET SERVICE, GAS SERVICE, CABLE, AND POWER.
- 32. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO THEINSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.

CONCRETE NOTES

1. UNLESS OTHERWISE NOTED, ALL ON-GRADE CONCRETE SHALL BE PLACED ON A MINIMUM 6-INCH GRAVEL BASE OVER A WELL COMPACTED (95% DENSITY PER ASTM D-1557) SUB GRADE.

2.REFER TO THE GENERAL STRUCTURAL NOTES FOR ADDITIONAL CONCRETE NOTES.

TRAFFIC CONTROL AND SAFETY NOTES

- 1. THE CONTRACTOR SHALL PROVIDE ALL FLAGGING, BARRICADES, AND TRAFFIC CONTROL NECESSARY FOR ENSURE SAFETY TO THE GENERAL PUBLIC DURING CONSTRUCTION. A TRAFFIC CONTROL PLAN SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE AGENCIES WITH JURISDICTION.
- 2.TRAFFIC CONTROL, BARRICADES, DETOURING, AND STRIPING SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
- 3.NO STREET SHALL BE CLOSED TO TRAFFIC WITHOUT WRITTEN PERMISSION FROM THE APPROPRIATE AGENCY, EXCEPT WHEN DIRECTED BY LAW ENFORCEMENT OR FIRE OFFICIALS.
- 4.THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROVIDE SMOOTH TRAFFIC FLOW AND SAFETY. ACCESS SHALL BE MAINTAINED FOR ALL PROPERTIES ADJACENT TO THE WORK.
- 5.DETOURING OPERATIONS FOR A PERIOD OF SIX CONSECUTIVE CALENDAR DAYS, OR MORE, SHALL REQUIRE THE INSTALLATION OF TEMPORARY STREET STRIPING AND REMOVAL OF INTERFERING STRIPING BY SANDBLASTING. THE DETOURING STRIPING PLAN OR CONSTRUCTION TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY TRAFFIC ENGINEER OR LOCAL JURISDICTION FOR REVIEW AND APPROVAL.
- 6.ALL TRAFFIC CONTROL DEVICES (TCDS) SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF THE WORK TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER OR LOCAL JURISDICTION OF AUTHORITY.
- 7. TCDS SHALL REMAIN VISIBLE AND OPERATIONAL AT ALL TIMES.
- 8.ALL PERMANENT TRAFFIC CONTROL DEVICES (TCDS) CALLED FOR HEREIN SHALL BE IN PLACE AND IN THEIR FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
- 9. THE CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, FLASHERS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO ENSURE THE SAFETY OF WORKERS AND VISITORS.

GRADING AND DRAINAGE NOTES

- 1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND ALL RELATED ADDENDUMS.
- 2. THE CONTRACTOR SHALL STRIP AND CLEAR THE TOPSOIL, MAJOR ROOTS AND ORGANIC MATERIAL FROM ALL PROPOSED BUILDING, PIPELINES, AND PAVEMENT AREAS PRIOR TO SITE GRADING. (TOPSOIL MAY BE STOCKPILED FOR LATER USE IN LANDSCAPED AREAS.)

- 3. THE CONTRACTOR SHALL REMOVE ALL ORGANIC MATERIAL AND OTHER DELETERIOUS MATERIALS PRIOR TO PLACING GRADING FILL OR BASE COURSE. THE AREA SHALL BE PROOF-ROLLED TO IDENTIFY ANY SOFT AREAS. WHERE SOFT AREAS ARE ENCOUNTERED, THE CONTRACTOR SHALL REMOVE IT AND REPLACE WITH COMPACTED FILL.
- 4.ALL DEBRIS PILES AND BERMS SHALL BE REMOVED AND HAULED AWAY FROM THE SITE OR USED AS GENERAL FILL IN LANDSCAPED AREAS.
- 5. THE CONTRACTOR SHALL CONSTRUCT THE BUILDING PAD ACCORDING TO THESE DESIGN PLANS AS PART OF THE SITE GRADING CONTRACT.
- 6.THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE AND DEBRIS ON ADJACENT STREETS WHEN EQUIPMENT IS TRAVELING ON THOSE STREETS.
- 7.IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES, AND SLOPES SHOWN.
- 8. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CAN BE UTILIZED ONSITE AT LOCATIONS COORDINATED WITH OWNER.
- 9.ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
- 10. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER FROM THE GOVERNING AGENCY.
- 11. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS, AND ALL OTHER PUBLIC RIGHTS-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED AND DISPOSED OF IN A LAWFUL MANNER FROM THE PUBLICLY-OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE, AND USABLE CONDITION.
- 12. TOPSOIL SHALL BE REPLACED AND GRADED PRIOR TO REVEGETATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE DEPTH OF EXISTING TOPSOIL AND REPLACING IT TO THE EXISTING TOPSOIL DEPTH. DISTURBED AREAS SHALL BE RESEEDED USING A SEED MIX SPECIFIED ON THE EROSION CONTROL PLAN AND DETAILS.
- 13. IMPROVEMENT ELEVATION LABELS AND ELEVATION CONTOURS REFERENCE FINISHED ELEVATIONS. REFER TO THE HABBREVIATIONS AND SYMBOL LEGEND INCLUDED HEREIN.

EROSION CONTROL NOTES

- 1. PER UDEQ, STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES GENERAL PERMIT NO. UTR 300000, CONSTRUCTION ACTIVITY INCLUDING CLEARING, GRADING, EXCAVATION, AND DEMOLITION THAT DISTURBS ONE OR MORE ACRES OF LAND SHALL REQUIRE INCLUSION IN THE GENERAL PERMIT AND SHALL COMPLY WITH THE REQUIREMENTS THEREIN.
- 2. THE TOTAL PROJECT AREA OF DISTURBANCE IS GREATER THAN ONE ACRE; THEREFORE, AN UPDES STORM WATER PERMIT IS REQUIRED.
- 3. THE CONTRACTOR SHALL OBTAIN A STORM WATER PERMIT FOR THIS PROJECT, IF APPLICABLE, AND MAINTAIN A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON SITE DURING ALL PHASES OF CONSTRUCTION.
- 4. THE PRIME CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR COMPLIANCE WITH THE GENERAL PERMIT.
- 5. THE EROSION CONTROL PLAN HEREIN IS FOR PERMITTING PURPOSES ONLY. THE CONTRACTOR SHALL REVISE THE EROSION CONTROL PLAN TO FIT SPECIFIC SITE CONDITIONS AS REQUIRED TO MEET THE REQUIREMENTS AND CONDITIONS OF THE PERMIT.
- 6.THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE PERMIT THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE OF TERMINATION (NOT) IS ISSUED BY UDEQ. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL PERMIT REQUIREMENTS.
- 7. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL WITH WATER AND/OR DUST PALLIATIVE AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT LABOR, EQUIPMENT, AND MATERIALS ONSITE TO MAINTAIN DUST CONTROL WHEN CONDITIONS REQUIRE.

SPECIAL INSPECTION AS PER IBC

1. REFER TO THE STRUCTURAL SPECIAL INSPECTION SHEET FOR SPECIAL INSPECTIONS REQUIRED BY THE INTERNATIONAL BUILDING CODE.

DESIGN CRITERIA

1. REFER TO THE GENERAL STRUCTURAL NOTES SHEET FOR PROJECT DESIGN CRITERIA.



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GENERAL NOTES

- 1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
- SEE LANDSCAPE/ARCHITECTURAL PLANS FOR CONCRETE MATERIAL, COLOR, FINISH, AND SCORE PATTERNS THROUGHOUT SITE.
- 4. ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES AND DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.
- 5. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, UTILITIES, OR STRUCTURES.
- 6. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.
- 7. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
- 8. ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY STANDARD PLANS AND SPECIFICATIONS. 9. ALL WATER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND
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SCOPE OF WORK:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- (1) GRAVEL ROAD/PARKING SECTION PER DETAIL 3 ON SHEET C-501.
- 8" DUCTILE IRON TANK OVERFLOW. SEE C-303 AND MECHANICAL DRAWINGS FOR MORE INFORMATION. TRENCHING PER 3 / C-600.
- 3 6" DUCTILE IRON TANK DRAIN. SEE C-302 AND MECHANICAL DRAWINGS FOR MORE INFORMATION. TRENCHING PER 3 / C-600.
- 6" DUCTILE IRON TANK INLET. SEE C-301 AND MECHANICAL DRAWINGS FOR MORE INFORMATION. TRENCHING PER 3 / C-600.
- 12" DUCTILE IRON TANK OUTLET. SEE C-300 AND MECHANICAL DRAWINGS FOR MORE INFORMATION. TRENCHING PER 3 / C-600.
- 6 4" SCH 80 PVC TANK LEAK DETECTION AND FOUNDATION DRAIN. SEE C-304 AND MECHANICAL DRAWINGS FOR MORE INFORMATION. TRENCHING PER 3 / C-600 AND 6 / M-401.
- (7) RETAINING WALL PER DETAIL 1 / C-602.
- (8) CONCRETE APRON PER DETAIL 4 / C-600
- (9) DRAINAGE FLOW LINE RIPRAP PER DETAIL 2 / C-600.
- (10) OVERLAPING TIMBER STEPS PER DETAIL 1 / C-601.
- (11) CAP END AND INSTALL THRUST BLOCK. MARK END WITH BLUE CARSONITE POST
- **12** FLOOR DRAIN GRAVITY CLEANOUT PER DETAIL 8 / C-600.

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FOR CONSTRUCTION 7/9/2025

SITE AND UTILITY PLAN



BENCHMARK

CONTROL POINT GE CAP NEAR EAST QUARTER CORNER OF NORTHEAST QUARTER CORNER OF SECTION 26, TOWNSHIP 7 NORTH, RANGE 1 EAST SALT LAKE PRINCIPAL MERIDIAN

ELEV = 5321.77'

PROJECT NUMBER 14018A

PRINT DATE
2025-07-09 PROJECT MANAGER DESIGNED BY R. ROUSSELLE C. DUNKEL

C-200

RANCH UTAH OBABE EDEN, I Ο C



12-INCH TANK OUTLET PROFILE

PLANS	MJ LONG S			K PER APW	D RJ MJ X R	K PER APW					STORM-SD					PER APWA		UTION WAI MJ X RJ MJ R APWA 561	EERING PLA		5340
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VALV SEE	STA: STA: D		TIS TIS	SNI M	ST,	/M				SI	ŇŽ				 STA		 STA: 3+	CONNEC INSTALL W/ THRI	SEE GA		5320
					,		– EXISTI	ING GROUI	ND						 		 				5310
							AT CL	PIPE	COVER		 • 12"	— — CLEARAI	— — — NCE MIN.		 		 		<u> </u>		5300
		-INSTALL 12	2" C900 DR	18 PVC	INSTALL	12" C900 E	R18 PVC				·····	JSTALL 1	2" CQNN D		 			STALL 12	° C900 DI	18 PVC	[.] 5290
)		25.4 L.F. (@) MIN 0.5 S	SLOPE)	5.0 L.F. ((@ MIN 0.5	SLOPE)				1	20.1 L.F.	(@ MIN 0.5	5 SLOPE) "	 •••••		 8.0	// L.F. @	0.36% SL	OPE	5280
															 •••••						5270
																	 			•••	5260 5254

HORIZONTAL GRAPHIC SCALE

(IN FEET

HORZ: 1 inch = 20 ft.

VERT: 1 inch = 20 ft.

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- ALL BURIED DIP SHALL HAVE "TR FLEX" RESTRAINED JOINTS OR EQUAL. ALL MJ FITTINGS SHALL HAVE RESTRAINED JOINTS, "MEGA LUG" OR EQUAL.
- 2 SEE MECHANICAL DRAWINGS FOR CONTINUATION.
- 3 FLARED END SECTION PER DETAIL ON 6 ON SHEET C-600

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FOR CONSTRUCTION 7/9/2025



PROJECT MANAGER DESIGNED BY R. ROUSSELLE C. DUNKEL

C-300

PROJECT NUMBER

14018A

PRINT DATE
2025-07-09



BENCHMARK

CONTROL POINT GE CAP NEAR EAST QUARTER CORNER OF NORTHEAST QUARTER CORNER OF SECTION 26,TOWNSHIP 7 NORTH, RANGE 1 EAST SALT LAKE PRINCIPAL MERIDIAN



5350

5340

5330

5320

5310

5300

5290

5280

5270

5260

5254

8-INCH INLET PROFILE

HORIZONTAL GRAPHIC SCALE

(IN FFFT

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- 6. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.
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- 8. ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY STANDARD PLANS AND SPECIFICATIONS. 9. ALL WATER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND
- SPECIFICATIONS. 6. DEFLECT OR LOOP ALL WATERLINES TO AVOID CONFLICTS WITH OTHER UTILITIES PER GOVERNING AGENCY'S
- STANDARDS AND SPECIFICATIONS. 7. PROJECT SHALL COMPLY WITH ALL UTAH DIVISION OF DRINKING WATER RULES AND REGULATIONS INCLUDING,
- BUT NOT LIMITED TO, THOSE PERTAINING TO BACKFLOW PROTECTION AND CROSS CONNECTION PREVENTION. 8. THE CONTRACTOR IS TO COORDINATE ALL UTILITIES WITH MECHANICAL/PLUMBING PLANS.
- 9. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 10. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

SCOPE OF WORK:

5350

5310

5300

5290

5280

5270

5260

5254

13

Know what's below. Call before you dig.

CALL BLUESTAKES

@ 811 AT LEAST 48 HOURS PRIOR TO THE

COMMENCEMENT OF ANY

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- ALL BURIED DIP SHALL HAVE "TR FLEX" RESTRAINED JOINTS OR EQUAL. ALL MJ FITTINGS SHALL HAVE RESTRAINED JOINTS, "MEGA LUG" OR EQUAL.
- (2) SEE MECHANICAL DRAWINGS FOR CONTINUATION.
- 3 FLARED END SECTION PER DETAIL ON 6 ON SHEET C-600

LAYTON Phone: 801.547.1100

Phone: 801.255.0529

Sandy, UT 84070

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RICHFIELD Phone: 435.896.2983

WWW.ENSIGNENG.COM

FOR: EDEN VALLEY OPPORTUNITY, LLC 3718 NORTH WOLF CREEK DRIVE EDEN, UT 84310

CONTACT: JOHN LEWIS PHONE: 801.897.4880

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ELEV = 5321.77'

BENCHMARK

CONTROL POINT GE CAP NEAR EAST QUARTER CORNER OF NORTHEAST QUARTER CORNER OF SECTION 26,TOWNSHIP 7 NORTH, RANGE 1 EAST SALT LAKE PRINCIPAL MERIDIAN



6-INCH DRAIN PROFILE

HORIZONTAL GRAPHIC SCALE

(IN FEET)

HORZ: 1 inch = 20 ft. VERT: 1 inch = 20 ft.

GENERAL NOTES

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- 2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
- 3. SEE LANDSCAPE/ARCHITECTURAL PLANS FOR CONCRETE MATERIAL, COLOR, FINISH, AND SCORE PATTERNS THROUGHOUT SITE.
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CONTACT: JOHN LEWIS PHONE: 801.897.4880

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COBABE

FOR CONSTRUCTION 7/9/2025

PROJECT MANAGER DESIGNED BY R. ROUSSELLE C. DUNKEL

C-302

PROJECT NUMBER

14018A

PRINT DATE
2025-07-09

81 Know what's below. Call before you dig.

CALL BLUESTAKES @ 811 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY

BENCHMARK

CONTROL POINT GE CAP NEAR EAST QUARTER CORNER OF NORTHEAST QUARTER CORNER OF SECTION 26,TOWNSHIP 7 NORTH, RANGE 1 EAST SALT LAKE PRINCIPAL MERIDIAN

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8-INCH OVERFLOW PROFILE

HORIZONTAL GRAPHIC SCALE

(IN FEET

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SANDY

LAYTON Phone: 801.547.1100

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CONTACT: JOHN LEWIS PHONE: 801.897.4880

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RANCH

COBABE

FOR CONSTRUCTION 7/9/2025

PROJECT MANAGER DESIGNED BY R. ROUSSELLE C. DUNKEL

C-303

PROJECT NUMBER

14018A

PRINT DATE
2025-07-09

BENCHMARK

CONTROL POINT GE CAP NEAR EAST QUARTER CORNER OF NORTHEAST QUARTER CORNER OF SECTION 26,TOWNSHIP 7 NORTH, RANGE 1 EAST SALT LAKE PRINCIPAL MERIDIAN

HORIZONTAL GRAPHIC SCALE

(IN FEET)

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- 3 FLARED END SECTION PER DETAIL ON 6 ON SHEET C-600

ENSIGN THE STANDARD IN ENGINEERING SANDY

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LAYTON Phone: 801.547.1100

TOOELE Phone: 435.843.3590

CEDAR CITY Phone: 435.865.1453

RICHFIELD Phone: 435.896.2983

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FOR: EDEN VALLEY OPPORTUNITY, LLC 3718 NORTH WOLF CREEK DRIVE EDEN, UT 84310

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CONTACT: JOHN LEWIS PHONE: 801.897.4880

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COBABE

FOR CONSTRUCTION 7/9/2025

PLAN AND PROFILE LEAK DET. / FOUND. DRAIN

PROJECT MANAGER DESIGNED BY R. ROUSSELLE C. DUNKEL

C-304

PROJECT NUMBER 14018A

PRINT DATE
2025-07-09

81 Know what's below. Call before you dig. BENCHMARK

CONTROL POINT GE CAP NEAR EAST QUARTER CORNER OF NORTHEAST QUARTER CORNER OF SECTION 26,TOWNSHIP 7 NORTH, RANGE 1 EAST SALT LAKE PRINCIPAL MERIDIAN

HORIZONTAL GRAPHIC SCALE

(IN FEET HORZ: 1 inch = 20 ft. VERT: 1 inch = ft.

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- ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
- ALL WORK SHALL COMPLY WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER POSSIBLY INCLUDING, BUT NOT LIMITED TO, REMOVAL OF UNCONSOLIDATED FILL, ORGANICS, AND DEBRIS, PLACEMENT OF SUBSURFACE DRAIN LINES AND GEOTEXTILE, AND OVEREXCAVATION OF UNSUITABLE BEARING MATERIALS AND PLACEMENT OF ACCEPTABLE FILL MATERIAL.
- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING SOIL CONDITIONS. LANDSCAPED AREAS REQUIRE SUBGRADE TO BE MAINTAINED AT A SPECIFIC ELEVATION BELOW FINISHED
- GRADE AND REQUIRE SUBGRADE TO BE PROPERLY PREPARED AND SCARIFIED. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION. 6. SLOPE ALL LANDSCAPED AREAS AWAY FROM BUILDING FOUNDATIONS TOWARD CURB AND GUTTER OR
- STORM DRAIN INLETS. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
- ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
- ENSURE MINIMUM COVER OVER ALL STORM DRAIN PIPES PER MANUFACTURER'S RECOMMENDATIONS. NOTIFY ENGINEER IF MINIMUM COVER CANNOT BE ATTAINED.
- 10. ALL FACILITIES WITH DOWNSPOUTS/ROOF DRAINS SHALL BE CONNECTED TO THE STORM DRAIN SYSTEM. SEE PLUMBING PLANS FOR DOWNSPOUT/ROOF DRAIN LOCATIONS AND SIZES. ALL ROOF DRAINS TO HAVE MINIMUM 1% SLOPE.
- 11. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 1 12. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, OR STORM DRAIN STRUCTURES OR PIPES.
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- 1 LIMITS OF DISTURBANCE
- 2 DAYLIGHT TO EXISTING GROUND WITH MAXIMUM 1.5:1 SLOPE, UNLESS NOTED OTHERWISE. REFER TO GEOTECHNICAL REPORT FOR SLOPE STABILITY REQUIREMENTS AND LIMITS.

EXCAVATION CUT/FILL QUANTITIES								
AREA / DESCRIPTION	CUT (CY)							
TOPSOIL	396							
TANK EXCAVATION	5,060							
VAULT EXCAVATION	590							
PIPE TRENCH EXCAVATION	618							
TOTAL EXCAVATION	6,664							

• THIS TABLE DOES NOT USE A CUT/FILL FACTOR.

- QUANTITIES SHOWN DO NOT INCLUDE FINISH GRADE AT THE TANK.
- THESE QUANTITIES ARE NEAT LINE QUANTITIES. CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF EARTHWORK QUANTITIES TO COMPLETE THE WORK.

81 Know what's below. Call before you dig.

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BENCHMARK

CONTROL POINT GE CAP NEAR EAST QUARTER CORNER OF NORTHEAST QUARTER CORNER OF SECTION 26,TOWNSHIP 7 NORTH, RANGE 1 EAST SALT LAKE PRINCIPAL MERIDIAN

ELEV = 5321.77'

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FOR: EDEN VALLEY OPPORTUNITY, LLC 3718 NORTH WOLF CREEK DRIVE EDEN, UT 84310

CONTACT: JOHN LEWIS PHONE: 801.897.4880

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EXCAVATION GRADING PLAN

C-400

PROJECT NUMBER 14018A PROJECT MANAGER DESIGNED BY R. ROUSSELLE C. DUNKEL

PRINT DATE 2025-07-09

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- 3. ALL WORK SHALL COMPLY WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER POSSIBLY INCLUDING, BUT NOT LIMITED TO, REMOVAL OF UNCONSOLIDATED FILL, ORGANICS, AND DEBRIS, PLACEMENT OF SUBSURFACE DRAIN LINES AND GEOTEXTILE, AND OVEREXCAVATION OF UNSUITABLE BEARING MATERIALS AND PLACEMENT OF ACCEPTABLE FILL MATERIAL.
- 4. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING SOIL CONDITIONS. LANDSCAPED AREAS REQUIRE SUBGRADE TO BE MAINTAINED AT A SPECIFIC ELEVATION BELOW FINISHED
- GRADE AND REQUIRE SUBGRADE TO BE PROPERLY PREPARED AND SCARIFIED. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
- 6. SLOPE ALL LANDSCAPED AREAS AWAY FROM BUILDING FOUNDATIONS TOWARD CURB AND GUTTER OR STORM DRAIN INLETS.
- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIEV THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
- ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
- 9. ENSURE MINIMUM COVER OVER ALL STORM DRAIN PIPES PER MANUFACTURER'S RECOMMENDATIONS. NOTIFY ENGINEER IF MINIMUM COVER CANNOT BE ATTAINED.
- 10. ALL FACILITIES WITH DOWNSPOUTS/ROOF DRAINS SHALL BE CONNECTED TO THE STORM DRAIN SYSTEM. SEE PLUMBING PLANS FOR DOWNSPOUT/ROOF DRAIN LOCATIONS AND SIZES. ALL ROOF DRAINS TO HAVE MINIMUM 1% SLOPE.
- 11. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 12. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, OR STORM DRAIN STRUCTURES OR PIPES.
- 13. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

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BENCHMARK

CONTROL POINT GE CAP NEAR EAST QUARTER CORNER OF NORTHEAST QUARTER CORNER OF SECTION 26, TOWNSHIP 7 NORTH, RANGE 1 EAST SALT LAKE PRINCIPAL MERIDIAN

FINAL GRADING SECTION A-A

HORIZONTAL GRAPHIC SCALE

(IN FEET HORZ: 1 inch = 20 ft. VERT: 1 inch = 5 ft.

GENERAL NOTES

- 1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
- 3. ALL WORK SHALL COMPLY WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER POSSIBLY INCLUDING, BUT NOT LIMITED TO, REMOVAL OF UNCONSOLIDATED FILL, ORGANICS, AND DEBRIS, PLACEMENT OF SUBSURFACE DRAIN LINES AND GEOTEXTILE, AND OVEREXCAVATION OF UNSUITABLE BEARING MATERIALS AND PLACEMENT OF ACCEPTABLE FILL MATERIAL.
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- STORM DRAIN INLETS. 7. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
- 8. ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
- 9. ENSURE MINIMUM COVER OVER ALL STORM DRAIN PIPES PER MANUFACTURER'S RECOMMENDATIONS. NOTIFY ENGINEER IF MINIMUM COVER CANNOT BE ATTAINED.
- 10. ALL FACILITIES WITH DOWNSPOUTS/ROOF DRAINS SHALL BE CONNECTED TO THE STORM DRAIN SYSTEM. SEE PLUMBING PLANS FOR DOWNSPOUT/ROOF DRAIN LOCATIONS AND SIZES. ALL ROOF DRAINS TO HAVE MINIMUM 1% SLOPE.
- 11. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 12. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, OR STORM DRAIN STRUCTURES OR PIPES.
- 13. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

SCOPE OF WORK:

TOTAL

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- 1 LIMITS OF DISTURBANCE
- 2 DAYLIGHT TO EXISTING GROUND WITH MAXIMUM 3:1 SLOPE, UNLESS NOTED OTHERWISE. REFER TO GEOTECHNICAL REPORT FOR SLOPE STABILITY REQUIREMENTS AND LIMITS.

FINAL GRADE CUT/FILL QUANTITIES									
AREA / DESCRIPTION	CUT (CY)	FILL (CY)	NET (CY)						
OPSOIL REMOVAL (6" NATIVE)	1,045	-	1,045	CUT					
/ERALL SITE	121	6,872	6,751	FILL					
OPSOIL PLACEMENT (6")	-	1,440	1,440	FILL					

THIS TABLE DOES NOT USE A CUT/FILL FACTOR.

- QUANTITIES SHOWN DO NOT INCLUDE FINISH GRADE AT THE TANK.
- THESE QUANTITIES ARE NEAT LINE QUANTITIES. CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF EARTHWORK QUANTITIES TO COMPLETE THE WORK.

1,166 8,312 7,146 FILL

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C-402

BENCHMARK

CONTROL POINT GE CAP NEAR EAST QUARTER CORNER OF NORTHEAST QUARTER CORNER OF SECTION 26,TOWNSHIP 7 NORTH, RANGE 1 EAST SALT LAKE PRINCIPAL MERIDIAN

GENERAL NOTES

- THIS PLAN IS DESIGNED AS A FIRST APPRAISAL OF NECESSARY MEANS TO PROTECT THE WATERS OF THE STATE FROM POTENTIAL POLLUTION. IT IS THE RESPONSIBILITY OF THE OWNER/OPERATOR TO ADD MANAGEMENT PRACTICES (BMP'S) AS NECESSARY, MODIFY THOSE SHOWN AS WARRANTED BEST APPROPRIATE, AND DELETE FROM THE PROJECT THOSE FOUND TO BE UNNECESSARY. FEDERAL AND STATE LAW ALLOWS THESE UPDATES TO BE MADE BY THE OWNER/OPERATOR ONSITE AND RECORDED BY THE OWNER/OPERATOR ON THE COPY OF THE SWPPP KEPT ONSITE
- DISTURBED LAND SHALL BE KEPT TO A MINIMUM. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. HOWEVER, WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- RESEED DISTURBED LAND WITH NATIVE GRASS MIXTURE WITHIN 14 CALENDAR DAYS OF ACHIEVEMENT OF FINISH GRADE TO STABILIZE SOILS IF LAND IS NOT TO BE RE-WORKED WITHIN 14 CALENDAR DAYS OF THE CESSATION OF CONSTRUCTION ACTIVITIES AT THAT LOCATION.
- DETAILS SHOWN ARE TO BE EMPLOYED TO PROTECT RUNOFF AS APPROPRIATE DURING CONSTRUCTION. NOT ALL DETAILS ARE NECESSARY AT ALL PHASES OF THE PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE OWNER/OPERATOR TO USE APPROPRIATE BEST MANAGEMENT PRACTICES AT THE APPROPRIATE PHASE OF CONSTRUCTION. SEE SWPPP FOR BMP IMPLEMENTATION SCHEDULE.
- VARIOUS BEST MANAGEMENT PRACTICES HAVE BEEN SHOWN ON THE PLANS AT SUGGESTED LOCATIONS. THE CONTRACTOR MAY MOVE AND RECONFIGURE THESE BMP'S TO OTHER LOCATIONS IF PREFERRED. PROVIDED THE INTENT OF THE DESIGN IS PRESERVED.
- NOT ALL POSSIBLE BMP'S HAVE BEEN SHOWN. THE CONTRACTOR IS RESPONSIBLE TO APPLY CORRECT MEASURES TO PREVENT THE POLLUTION OF STORM WATER PER PROJECT SWPPP
- A UPDES (UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR ALL CONSTRUCTION ACTIVITIES 1 ACRE OR MORE.

SCOPE OF WORK:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- CONCRETE WASHOUT PER DETAIL 1 / C-501.
- 2 STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 2 / C-501.
- 3 INLET PROTECTION PER DETAIL 3/C-501.
- 4 PORTABLE TOILET PER DETAIL 4 / C-501.
- 5 SILT FENCE PER DETAIL 5 / C-501.
- (6) SUGGESTED CONSTRUCTION SITE PARKING, STAGING, DUMPSTER, AND MATERIAL STORAGE AREA.
- SLOPE TO BE SEEDED WITH SEED MIX PER DETAIL 6 / C-501 OR APPROVED BY OWNER.
- TOPSOIL MUST BE STOCKPILED SEPARATELY PRIOR TO ANY EXCAVATION AND THEN REPLACED ON TOP OF ANY AREAS WHERE SPOILS ARE WASTED. WHERE POSSIBLE, LIMIT THE AREA OF DISTURBANCE.

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C-500

BENCHMARK

CONTROL POINT GE CAP NEAR EAST QUARTER CORNER OF NORTHEAST QUARTER CORNER OF SECTION 26,TOWNSHIP 7 NORTH, RANGE 1 EAST SALT LAKE PRINCIPAL MERIDIAN

NOTE:

1. PLACE SIGN ADJACENT TO ENTRANCE " CONSTRUCTION TRAFFIC ONLY - ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT SITE AT THIS LOCATION"

SEED MIX SPECIFICATION (RECOMMENDED):

SEED MIX : 25 LB./ACRE MIX OF CABIN BLEND, PER SUPPLIER'S RECOMMENDATIONS. (AVAILABLE FROM GRANITE SEED, LEHI, UTAH)

SPECIES

MOUNTAIN BROME (BROMUS MARGINATUS) SLENDER WHEATGRASS (ELYMUS TRACHYCAULUS SSP. TRACHYC SANDBERG BLUEGRASS (POA SECUNDA SSP. SANDBERGII)

IDAHO FESCUE (FESTUCA IDAHOENSIS)

WESTERN WHEATGRASS (PASCOPYRUM SMITHII)

BIG BLUEGRASS (POA SECUNDA SSP. AMPLA)

BLUEBUNCH WHEATGRASS (PSEUDOROEGNERIA SPIC ATA SSP. S TOTAL

BROADCAST METHOD

- A. SEEDING OF NON-IRRIGATED AREAS IS REQUIRED ON OR AFTER OCTOBER 15, BUT BEFORE SNOW ACCUMULATES. B. USE THE BROADCAST METHOD OF SEEDING UNDER THE FOLLOWING CONDITIONS:
- 1. SLOPES STEEPER THAN 3:1, THAT REQUIRE GEOTEXTILE.
- 2. SLOPES 3:1 AND FLATTER WHERE THE AREA TO BE SEEDED IS INACCESSIBLE TO DRILL.
- 3. WHERE THE AREA TO BE SEEDED IS NOT LARGE ENOUGH TO JUSTIFY USING A DRILL.
- 4. WHERE ROCKY SURFACE CONDITIONS WOULD DAMAGE A DRILL. B. OBTAIN APPROVAL OF THE BROADCAST METHOD BY DEMONSTRATING THE PROCEDURE ON A 100 YD² AREA.
- C. EVENLY BROADCAST SEED USING EITHER:
- 1. A CYCLONE SEEDER OR OTHER APPROVED MECHANICAL SEEDER. 2. A HYDROSEEDER
- a) APPLY SEED, WATER AND 300 LB OF CELLULOSE FIBER MULCH (TRACER) PER ACRE. D. DO NOT SEED DURING WINDY WEATHER OR WHEN SOIL IS SATURATED.
- E. INCORPORATE THE SEED INTO THE SOIL BY ONE OF THREE METHODS: WITH THE CONTOURS.
- 2. HAND RAKING THE SEED IN 1/2 INCH DEEP AND ALONG THE CONTOURS OF THE SLOPE. SLOPE CHAINING BY PULLING THE CHAIN ALONG THE CONTOUR UNTIL THE SEED IS COVERED
- MULCH, BLANKET, OR OTHER TOPDRESSING.

TEMPORARY SILT FENCE 5

SCALE: NONE

	PLS (LBS./ACRE)	% BY WEIGHT	% BY SEEDS
	7.5	30	9.0
AULUS)	6.25	25	18.6
	1.25	5	24.5
	1.25	5	10.5
	5	20	10.3
	1.25	5	20.6
PICATA)	2.5	10	6.5
	25	100	100.0

1. CAT-TRACKING, RUNNING THE DOZER UP AND DOWN THE SLOPE, CREATING CONTINUOUS CLEAT TRACKS THAT RUN PARALLEL

F. OBTAIN APPROVAL FROM THE ENGINEER THAT THE SEED HAS BEEN ADEQUATELY INCORPORATED INTO THE SOIL BEFORE APPLYING

SCALE: NONE

PORTABLE TOILET

SCALE: NONE

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C-600

GN

ENSI

SANDY

THE STANDARD IN ENGINEERING

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OVERLAPPING TIMBER STEP

TYPICAL ID	MATERIAL	OVERALL LENGTH	OVERALL WIDTH	STEP RUN	
OTS-1	M 1	5-FT	6-FT	12-IN	
OTS-2	M 1	5-FT	6-FT	12-IN	
OTS-3	M 1	5-FT	6-FT	12-IN	
OTS-4	M 1	4-FT	6-FT	12-IN	

N/A WHEN NOT APPLICABLE

NOTES:

1. PRE-DRILL HOLES FOR REBAR AND PINS TO PREVENT SPLITTING OF LOGS.

2. RECESS END OF REBAR 1/2 INCH BELOW TOP OF TIMBER.

3. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT. 4. ALL FIELD DRILLED HOLES AND CUTS SHALL BE FIELD TREATED.

5. REMOVE AND DISPOSE OF DUFF AND TOP ORGANIC LAYERS DOWN TO MINERAL SOIL.

6. MINIMUM OVERLAP OF BOTTOM CARRIAGE IS THE SAME AS THE STEP RUN LENGTH.

7. RISERS AND CARRIAGES SHALL BE THE SAME DIMENSIONS.

8. TIMBERS SHALL BE 8X8 CEDAR CLEAR GRADE:

- NLGA 203 b,c OR BETTER
- WCLIB 150 b,c OR BETTER
- 9. APPLY CEDAR STAIN TO POST PRIOR TO INSTALLATION. 10. IF POSTS ARE NOT CEDAR, THEY SHALL BE TREATED IN ACCODANCE WITH THE CURRENT AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) SPECIFICAITON LISTED IN THE TABLE BELOW.
- 11. REFER TO SPECIFICATION 064314 FOR ADDITIONAL INFORMATION.

MATERIAL TYPE

TYPE	MATERIAL	SIZE	SPECIES/ GRADE	PRESERV. TYPE	COMMENTS
M1	SAWN TIMBER	8X8	DOUGLAS	WB	N/A
			FIR/#2		

OVERLAPPING TIMBER STEPS DETAIL

SCALE: NO	NE

TREATMENT TYPE

WB = WATERBORNE

OT = OIL-BORNE

PRESERVATIVE TREATMENT - (REFER TO AWPA USE CATEGORY SYSTEM) TREATMENT PRESERVATIVE USE CATEGORY TYPE TYPE WB UC4B P1

ELEVATION VIEW

N/A N/A N/A

COMMENTS

N/A

×	 	/	6 INCH (TYP)
OVERALL WIDTH			

COMMENTS

N/A

USE CATEGORY

UC3B = ABOVE GROUND -EXPOSED UC4A = GROUND CONTACT -GENERAL USE

UC4B = GROUND CONTACT -HEAVY DUTY

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COBABE RANCH 0.5 MG WATER TANK EDEN CROSSING (PWS NO.29132) COBABE RANCH EDEN, UTAH
FOR CONSTRUCTION 7/9/2025
CIVIL DETAILSPROJECT NUMBER 14018APRINT DATE 2025-07-09PROJECT MANAGER R. ROUSSELLEDESIGNED BY C. DUNKEL

C-602

Tie-down thrust restraints

- 1. GENERAL
 - A. Thrust design for pipe sizes or configurations not shown require special design.B. Bearing areas, volumes, and special thrust blocking details shown on Drawings take precedence over this plan.
 - C. Restraint sizing is based upon a maximum operating pressure of 150 psi and a test pressure of 200 psi, and a minimum soil bearing strength of 2,000 psf.
 Operating pressures in excess of 150 psi or soils with less than 2,000 pound
 - bearing strength will require special design. D. Before backfilling around thrust block, secure inspection of installation by
- ENGINEER 2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-
 - inches.
 - C. Concrete: Class 4,000 minimum, APWA Section 03 30 04.D. Reinforcement: Deformed, steel, ASTM A615. Give bars an epoxy coating at least 15 mils thick. Minimum stress yield strength of steel tie-down bars is
 - 60 ksi. E. Grease: Non-oxide poly-FM.
- 3. EXECUTION
 - A. Pour concrete against undisturbed soil. Concrete must be allowed to cure in thrust restraints for 5 days before pressurizing water lines or have additional approved thrust restraints installed before pressurizing the water line.
 - B. Pipe Joints: Do not cover with concrete. Leave completely accessible.C. Grease: Apply grease to all buried metal surfaces. Wrap the pipe with polyethylene sheet encasement per AWWA C105 (and tape wrap) to act as a bond breaker.
 - D. Locking restraint devices may be used in conjunction with concrete thrust blocking (at discretion of ENGINEER).
 - E. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.

562

Revised January 2025

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TANK COBABE RANCH 0.5 MG WATER TAP EDEN CROSSING (PWS NO.29132) COBABE RANCH EDEN, UTAH FOR CONSTRUCTION 7/9/2025 **CIVIL DETAILS** PROJECT NUMBER PRINT DATE 2025-07-09 14018A PROJECT MANAGER DESIGNED BY R. ROUSSELLE C. DUNKEL **C-603**

2% SLOPE

- - -

- FINISH GRADE

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NOTE:

DIMENSIONS ON DOORS MAY VARY ACCORDING TO MANUFACTURER

DOOR SCHEDULE									
VALVE V	/ALVE VAULT								
TAG#	TYPE	SIZE	HINGE	CLOSER	LOCKSET	KICKPLATE	DOOR STOP	THRESHOLDS	DESCRIPTION
101	В	3'-0" X 7'-0"	С	YES	SEE SPECIFICATION 08 71 00	YES	YES	YES	INSULATED METAL DOOR W/ EXIT DEVICE

DOOR SCHEDULE

SCALE: 3/8"=1'-0"

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	1
10	

	BILL OF MATERIALS		
RIPTION	MATERIAL	FITTING	REMARKS
OL	SCH 40 DWV	PE	
OL	SCH 40 DWV	GLUED	
Έ	PERF SCH 80 PVC	GLUED	
OL	DI	VIC X PE	
OL	DI	FL X PE	
OL	DI	VIC X FL	
OL	DI	VIC X PE	
OL	DI	FL X PE	
OL	DI	VIC X FL	
LANGE	DI	FL X THDF	
LANGE	DI	FL X THDF	
AIN	DI	THDF	https://www.zurn.com/products/drainage-intercepto rs/floor-drains/area-drains/z508
JNION	STEEL X BRASS	THDM X THDF	
NTLING JOINT	DI	FL X FL	ROMAC DJ400
W	BRASS	THDF	
W	SCH 40 DWV	GLUED	
W	DI	FL	
W	DI	FL	1
LE	BRASS	THDM	1
NG TYPE	BRASS	THDM	
ID	SCH 80 PVC	GLUED	
TRAINT	DI	RJ	
TRAINT	DI	RJ	
TEE	DI	THDF	
	DI	FL	
	DI	FL	
T	DI	THDF	1
DAPTER	DI	VIC X FL	1
DAPTER	DI	VIC X FL	1

*NOTE: NOT ALL PIPE AND FITTINGS LISTED SHOW UP ON THIS SHEET.

DESCRIPTION DUCTILE IRON GALVANIZED RESTRAINED JOINT STAINLESS STEEL THREADED FEMALE

THREADED MALE

VICTAULIC

1. REFER TO SHEET M-300 FOR MECHANICAL, PUMP AND VALVE SCHEDULES.

3. ALL PIPE, VALVES, FITTINGS, AND APPURTENANCES SHALL BE RATED FOR A MINIMUM PRESSURE OF 150 PSI.

4. ALL INTERIOR CONCRETE, PIPING AND VALVES SHALL BE PAINTED ACCORDING TO THE FOLLOWING PAINTING REQUIREMENTS FOR THE VAULT:

	THING, VALVES, AND THINGS.
	ABRASIVE BLAST OR CENTRIFUGAL WHEEL BLAST
	ANTI CORROSIVE EPOXY PRIMER. 1 COAT, 2.5 MDFT (MINIMUM DRY FILM THICKNESS IN MILLS)
	POLYURETHANE ENAMEL, 2 COATS, 4 MDFT. PIPING COLOR: BLUE (DRINKING WATER) FITTINGS COLOR: RED.
R CONCRETE V	AULT INTERIOR WALLS AND CEILING:
	GRIND CONCRETE JOINTS AND FILL VOIDS WITH GROUT. APPLY RUB FINISH.
	APPLY EPOXY SURFACE, FLOOR SOLIDS, TO FILL AND SMOOTH HOLES IN CONCRETE SURFACE
	SINGLE COMPONENTS, INDUSTRIAL GRADE, HIGH MOLECULAR WEIGHT, ACRYLIC LATEX WITH
	MINIMUM SOLIDS CONTENT OF 35 PERCENT BY VOLUME. 2 COATS, 6 MDFT. COLOR TO BE
	APPROVED BY OWNER (OFF WHITE).
R CONCRETE V	AULT INTERIOR FLOORS:
	GRIND CONCRETE JOINTS AND FILL VOIDS WITH GROUT. APPLY RUB FINISH.
	APPLY EPOXY SURFACE, 100 PERCENT SOLIDS, TO FILL AND SMOOTH HOLES IN CONCRETE

WATER BASED, LOW PROFILE, TWO COMPONENT, ANTI-SLIP, INDUSTRIAL GRADE, EPOXY FLOOR COATING WITH SOLIDS CONTENT OF 62 PERCENT +/- 2 PERCENT BY VOLUME, 1 COAT. COLOR TO BE APPROVED BY OWNER (GRAY).

5. PAINT SHALL BE WELL VENTILATED PER PAINT MANUFACTURER'S RECOMMENDATIONS DURING OFF GASSING PERIOD.

SURFACE

7. GALVANIZED AND DIP PIPE AND FITTINGS ARE SHOWN. CONTRACTOR MAY USE STEEL PIPE AND FITTINGS UPON APPROVAL OF PROJECT ENGINEER. 8. ALL MJ FITTINGS SHALL HAVE RESTRAINED JOINTS (RJ), EBBA IRON MEGALUG, OR APPROVED EQUAL

9. CONTRACTOR SHALL DETERMINE FITTINGS WHEN CONNECTING TO INSTRUMENTS. NOT ALL FITTINGS TO INSTRUMENTS ARE SHOWN.

10. WHERE DISSIMILAR METALS CONNECT (EXAMPLE: BRASS OR COPPER AND GALVANIZED IRON), REFER TO GALVANIC CORROSION TABLE SHOWN ON THIS SHEET. PROVIDE A DIELECTRIC COUPLER, DIELECTRIC FLANGE KIT, OR OTHER METHOD TO KEEP DISSIMILAR METALS FROM CONTACTING. CATHODIC PROTECTION IS REQUIRED FOR ALL CONDITIONS WITHIN THE GALVANIC CORROSION TABLE WHICH STATE "ACTION MIGHT OCCUR" OR "GALVANIC ACTION WILL OCCUR".

11. ALL BURIED METAL PIPE, FITTINGS, BOLTS, NUTS, AND APPURTENANCES SHALL BE WRAPPED WITH 8 MIL. POLYETHYLENE. ALL BOLTS FOR DIRECT BURY FITTINGS

CHROMIUM PLATE BRASS COPPER NICKEL STAINLESS STEEL

ENSIGN THE STANDARD IN ENGINEERING SANDY 45 W. 10000 S., Suite 500 Sandy, UT 84070 Phone: 801.255.0529 LAYTON Phone: 801.547.1100 TOOELE Phone: 435.843.3590 CEDAR CITY Phone: 435.865.1453 RICHFIELD Phone: 435.896.2983 WWW.ENSIGNENG.COM FOR: EDEN VALLEY OPPORTUNITY, LLC 3718 NORTH WOLF CREEK DRIVE EDEN, UTAH 84310 CONTACT: JOHN LEWIS PHONE: 801.897.4880 29132) TANK **N** WATER

(PWS

SSING

8 0

EDEN

COBAI DEN CF

0.5 MG

ВП

E RANCH UTAH

EDEN,

COBABE

FOR CONSTRUCTION 7/9/2025

VALVE VAULT **MECHANICAL PLAN** AND SECTIONS

PROJECT NUMBER PRINT DATE 2025-07-09 14018A PROJECT MANAGER DESIGNED BY R. ROUSSELLE D. COOPER **M-100**

		BILL OF	MATERIALS		
ID	SIZE	SHORT DESCRIPTION	MATERIAL	FITTING	REMARKS
1	4"	PIPE SPOOL	SCH 40 DWV	PE	
2	4"	PIPE SPOOL	SCH 40 DWV	GLUED	
3	4"	PERF PIPE	PERF SCH 80 PVC	GLUED	
4	6"	PIPE SPOOL	DI	VIC X PE	
5	6"	PIPE SPOOL	DI	FL X PE	
6	6"	PIPE SPOOL	DI	VIC X FL	
7	12"	PIPE SPOOL	DI	VIC X PE	
8	12"	PIPE SPOOL	DI	FL X PE	
9	12"	PIPE SPOOL	DI	VIC X FL	
10	6" X 1"	COMPANION FLANGE	DI	FL X THDF	
11	12" X 2"	COMPANION FLANGE	DI	FL X THDF	
12	4"	FLOOR DRAIN	DI	THDF	https://www.zurn.com/products/drainage- eptors/floor-drains/area-drains/z508
13	1/2"	DIELECTRIC UNION	STEEL X BRASS	THDM X THDF	
14	12"	RESTRAINED DISMANTLING JOINT	DI	FL X FL	ROMAC DJ400
15	3/8"	90° ELBOW	BRASS	THDF	
16	4"	90° ELBOW	SCH 40 DWV	GLUED	
17	6"	90° ELBOW	DI	FL	
18	12"	90° ELBOW	DI	FL	
19	3/8"	PIPE NIPPLE	BRASS	THDM	
20	1/2"	PIPE NIPPLE, LONG TYPE	BRASS	THDM	
21	4"	PIPE BEND	SCH 80 PVC	GLUED	
22	6"	MEGALUG RESTRAINT	DI	RJ	
23	12"	MEGALUG RESTRAINT	DI	RJ	
24	1/2"x3/8"x1/2"	REDUCING TEE	DI	THDF	
25	6"	TEE	DI	FL	
26	12"	TEE	DI	FL	
27	6"x1/2"	WELDOLET	DI	THDF	
28	6"	VIC FLANGE ADAPTER	DI	VIC X FL	
20	12"	VIC FLANGE ADAPTER	DI	VIC X FL	

*NOTE: 1. NOT ALL PIPE AND FITTINGS LISTED SHOW UP ON THIS SHEET.

2. REFER TO SHEET M-100 FOR VALVE VAULT MECHANICAL NOTES.

DI

FL

GALV

SS THDF THDM VIC

RJ

DESCRIPTION DUCTILE IRON FLANGE GALVANIZED RESTRAINED JOINT STAINLESS STEEL THREADED FEMALE THREADED MALE VICTAULIC

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BILL OF MAT			
ON	MATERIAL	FITTING	REMARKS
	DI	FL X PE	
	DI	FL X FL	
	DI	FL X PE	
	DI	FL	
	PERF SCH 80 PVC	GLUED	
	SCH 80 PVC	GLUED	

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Valve Schedule									
Valve Vault									
Tag #	Description/Type	Size	Material	Operation	Connection	Remarks			
V-001	Butterfly Valve	6-INCH	DI	Handwheel	Wafer	Resilent Seat, Milliken, Bray, or Equal			
V-002	Butterfly Valve	12-INCH	DI	Handwheel	Wafer	Resilent Seat, Milliken, Bray, or Equal			
V-003	Butterfly Valve	6-INCH	DI	Handwheel	Wafer	Resilent Seat, Milliken, Bray, or Equal			
V-004	Ball Valve	1-INCH	BRASS	Lever	Threaded	Apollo, Brass Model 77FLF-108-01, or Equal			
V-005	Smooth Nosed Sampling Tap	1/2-INCH	BRASS	Lever	Threaded	Matco-Norca Model No. 646RLF, or Equal			
V-006	Combination Air/Vac Valve	1-INCH	DI	Lever	Threaded	Val-Matic Model No. 202C.2, or Equal			
V-007	Ball Valve	2-INCH	BRASS	Lever	Threaded	Apollo, Brass Model 77FLF-108-01, or Equal			
V-008	Ball Valve	2-INCH	BRASS	Lever	Threaded	Apollo, Brass Model 77FLF-108-01, or Equal			
V-009	Combination Air/Vac Valve	2-INCH	DI	Lever	Threaded	Val-Matic Model No. 202C.2, or Equal			

Mechanical Equipment Schedule							
	Valve Vault						
Tag #	Description/Type	HP/Size	Remarks				
M-001	Pressure Gauge	3/8"	Ashcroft Model 1279 (0 to 20 psi) or Equal				
M-002	Pressure Transmitter	N/A	See Electrical Instrumentation Drawings				
M-003	Pressure Gauge	1/2"	Ashcroft Model 1279 (0 to 20 psi) or Equal				

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FOR: EDEN VALLEY OPPORTUNITY, LLC 3718 NORTH WOLF CREEK DRIVE EDEN, UTAH 84310

'D' MINIMUM	'D' Maximum
8	11 1/2
8 1/4	11 3/4
8 1/2	12
10 1/4	14
11 5/8	15 1/4
13 5/8	16 1/2
14 5/8	18 1/4
15 5/8	19 3/4
18 7/8	20 3/4
19 7/8	22 1/4
21 1/4	24
23 1/4	25 1/2
26 1/2	28 1/1
29 5/8	31 1/2
30 5/8	32 3/4
 32 5/8	34 3/4

12" MIN

M-400

NOTES

ALL METALS SHALL BE 316 STAINLESS STEEL.

LADDER

- ALL JOINTS SHALL BE WELDED. 2.
- ALL ANCHOR BOLTS SHALL BE SS TITEN 5/8" X 4" LONG SCREW ANCHORS.
- ALL SS FIELD WELDS SHALL BE TOUCHED UP AS DIRECTED BY THE ENGINEER. 4.
- CONTRACTOR TO FURNISH SAFETY HARNESS AND APPURTENANCES AND BILCO LADDER UP 5. SAFETY SYSTEM.

SCALE: 1/2"=1'-0"

5

TANK FOUNDATION DRAIN

4' OPENING

1. INSTALL MIRAFI G100W DRAINAGE COMPOSITE WITH MIRAFI GEOTEXTILE FABRIC FILTER. ATTACH COMPOSITE PANELS WITH 1 1/4" - 1 1/2" CONCRETE NAILS OR ADHESIVE PER MFR'S RECOMENDATIONS. OVERLAP FILTER FABRIC AT SEAMS 2" MIN. TUCK FABRIC OVER AND BEHIND CORE EDGE TOP AND BOTTOM

SCALE: 3/4" = 1'-0"

SCALE: 3/4" = 1'-0"

SCALE: NONE

INSTALL WITH MIRAFI GEOTEXTILE FABRIC FILTER. OVERLAP FILTER FABRIC AT SEAMS 2" MIN. TUCK FABRIC

—(2) 1/2" X 4" LG SS ANCHOR BOLTS (TYP 2 PLCS) 2 PLCS) -BOLT ANGLE SUPPORTS TO FLANGE W/ SS HARDWARE (TYP) (MAX 6-FOOT SPACING)

SCALE: 1/2" = 1'-0" -SS L2x2x1/4" x 3'-3" LG (TYP OF 2) -OUTSIDE FACE OF TANK WALL

BILCO LADDER UP SAFETY POST

CEDAR CITY Phone: 435.865.1453 RICHFIELD Phone: 435.896.2983 WWW.ENSIGNENG.COM FOR: EDEN VALLEY OPPORTUNITY, LLC 3718 NORTH WOLF CREEK DRIVE EDEN, UTAH 84310 CONTACT: JOHN LEWIS PHONE: 801.897.4880 TANK 29132) **RANCH 0.5 MG WATER N** (PWS COBABE RANCH EDEN, UTAH ROSSING С С COBABE EDEN FOR CONSTRUCTION 7/9/202 MECHANICAL DETAILS

SANDY 45 W. 10000 S., Suite 500 Sandy, UT 84070 Phone: 801.255.0529

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Phone: 435.843.3590

M-401

R. ROUSSELLE D. COOPER

PRINT DATE 2025-07-09

DESIGNED B

PROJECT NUMBER

PROJECT MANAGER

14018A

DESIGN CRITERIA

- 1. GOVERNING BUILDING CODE: 2021 IBC A. RISK CATEGORY = IV
- 2. TANK LID LOADING A. LIVE LOAD = 50 PSF B. MEP DEAD LOAD ALLOWANCE = 10 PSF C. SOIL WEIGHT ON LID = 120 PSF D. LID SNOW LOAD = 55 PSF E. RAIN LOADS: a. RAIN INTENSITY, = 2.1 IN/HR 3. VALVE VAULT LOADING A. ROOF LIVE LOAD = 40 PSF B. ROOF DEAD LOAD = 110 PSF = 55 PSF C. ROOF SNOW LOAD (FLAT), pf a. GROUND SNOW LOAD, ps = 55 PSF b. SNOW EXPOSURE FACTOR, Ce = 1.0 c. THERMAL FACTOR, Ct = 1.2 d. SNOW LOAD IMPORTANCE FACTOR, Is = 1.2 e. SLOPE FACTOR, Cs = 1.0 4. SEISMIC LOADING: = 0.897g A. Ss = 0.316g B S = 0.718g C. S_{DS} = 0.316g E. SEISMIC DESIGN CATEGORY = D = C F. SITE CLASS G. IMPORTANCE FACTOR, Ie = 1.5
- 5. WIND LOADING = 114 MPH - 3 SEC GUST A. BASIC WIND SPEED, V B. ASD WIND SPEED, Vasd = 89 MPH - 3 SEC GUST C. COMP. & CLADDING WIND PRESSURE:

COMPONENTS & CLADDING DESIGN WIND PRESSURE (PSF)								
		EFFECTIVE WIND AREA (FT ²)						
LOCATION			20	50	100	>500		
	ZONE 5: WITHIN 3-FT OF BUILDING CORNER	-28.5	-26.8	-24.1	-22.3	-17.8		
WALLS	ZONE 4: ALL OTHER AREAS	-23.2	-22.3	-21.4	-20.1	-17.8		
	ZONE 4 & 5: POSITIVE PRESSURES	16.0	16.0	16.0	16.0	16.0		
	ZONE 3: L-SHAPE (6-FT LEG LENGTHS & 2-FT LEG THICKNESS) AT BUILDING CORNERS	-67.0	-61.0	-52.1	-46.2	-31.3		
	ZONE 2: WITHIN 6-FT OF BUILDING EDGE	-49.1	-46.2	-42.2	-39.2	-31.3		
ROOF	ZONE 1: BETWEEN 6-FT & 12-FT OF BUILDING EDGE	-37.3	-35.3	-31.3	-29.3	-23.4		
	ZONE 1' DOES NOT APPLY	-	-	-	-	-		
	ZONE 1, 2 & 3: POSITIVE PRESSURES	16.0	16.0	16.0	16.0	16.0		
6. SERVICEABILITY CRITERIA: A. DEFLECTION LIMITS: <u>TOTAL</u> <u>LIVE / SNOW</u> a. TANK LID L/360 L/480 b. VALVE VAULT ROOF L/360 L/480								

GENERAL

1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE GOVERNING BUILDING CODE AND SUPPLEMENTS UNLESS HIGHER STANDARD IS REQUIRED BY LOCAL BUILDING OFFICIAL.

2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ELEMENTS AS SHOWN ON THE CONTRACT DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE.

- 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE OSHA SAFETY REQUIREMENTS DURING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE SITE
- 5 AT ANY GIVEN TIME DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL ENSURE THE LOADS ON THE STRUCTURE DO NOT EXCEED THE SPECIFIED DESIGN LOADS. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF.
- 6. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ENGINEER BEFORE CONTINUING WITH CONSTRUCTION.
- 7. THE TYPICAL DETAILS SHALL BE USED WHEREVER APPLICABLE UNLESS OTHERWISE NOTED ON THE DRAWINGS. SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 8. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW MOST STRINGENT REQUIREMENT AS DETERMINED BY STRUCTURAL ENGINEER WITHOUT COST TO OWNER.
- 9. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SHORING, SEQUENCES, AND PROCEDURES.
- 10. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
- 11. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADES, DRAWINGS, AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- 12. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMNS, WALLS, SLABS, STEEL DECKS, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER THROUGH ARCHITECT.
- 13. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

PRE-CONSTRUCTION MEETINGS

- 1. A PRE-CONSTRUCTION MEETING IS RECOMMENDED PRIOR TO THE START OF CONSTRUCTION OF THE STRUCTURE. AT THE CONTRACTOR'S OPTION, THE PRE-CONSTRUCTION MEETING MAY TAKE PLACE PRIOR TO THE START OF SHOP DRAWING PRODUCTION.
- 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE THE PRE-CONSTRUCTION MEETING WITH ALL APPLICABLE PARTIES INCLUDING (BUT NOT LIMITED TO) THE CONTRACTOR, SUB-CONTRACTORS, ARCHITECT, STRUCTURAL ENGINEER, AND SPECIAL INSPECTOR.

CONCRETE

1. CONCRETE SHALL CONFORM TO ALL REQUIREMENTS OF ACI 318-19 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW:

NO WATER TO BE ADDED TO CONCRETE ON SITE EITHER BEFORE OR AFTER PLACEMENT

	MINIMUM EXP COMP. CL			SURI SSES			MAX.	AIR	MAX.	MAX. FLY		APPLICABLE *SPECIFIC
ELEMENT TYPE	STRENGTH, f'c (psi)	F	S	w	С	CEMENT TYPE	W/C RATIO	CONTENT %	AGG. SIZE	ASH %	SHRINKAGE LIMIT	INSTRUCTION NOTES
VALVE VAULT OOTINGS & RETAINING WALL FOOTINGS	3000	F0	S0	W0	C1	II OR IL	0.45		3/4"	25	-	
TANK	5000	F2	S0	W1	C2	II OR IL	0.40	6	3/4"	25	0.03%	А
TANK COLUMNS	5000	F2	S0	W1	C2	II OR IL	0.40	6	3/4"	25	0.03%	
XTERIOR SUSPENDED SLABS	5000	F3	S0	W0	C2	II OR IL	0.40	6	3/4"	25		
INTERIOR SLAB ON GRADE	4000	F0	S0	W0	C0	II OR IL	0.45		1 1/2"	25		
VALVE VAULT FOUNDATION WALLS, RETAINING WALLS	5000	F2	S0	W1	C2	II OR IL	0.40	6	3/4"	25		

***SPECIFIC INSTRUCTION NOTES:**

- XYPEX NOTE: XYPEX MIXTURE TO BE ADDED TO CONCRETE MIX FOR WATER PROOFING REQUIREMENT, AT A RATE OF 2% BY WEIGHT OF CEMENTITIOUS MATERIAL. CONTACT MANUFACTURER FOR MIX DESIGN REQUIREMENTS AND PLACEMENT. < http://www.imxtechnologies.com/>
- 2. CONCRETE SHALL ATTAIN THE LISTED MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
- AIR CONTENT TOLERANCE IS +/- 1-1/2% AT THE TIME OF FINAL PLACEMENT.
- 4. AIR ENTRAINMENT SHALL BE ADJUSTED FOR THE USE OF ADMIXTURES AND FLY ASH.
- 5. SUPERPLASTICIZER MAY BE ADDED TO INCREASE SLUMP AS REQUIRED FOR PLACEMENT.
- 6. CALCIUM CHLORIDE SHALL NOT BE ADDED TO THE CONCRETE MIX.
- 7. FOR EXPOSURE CLASS F3, THE MAXIMUM PERCENTAGE OF POZZOLAN IN CONCRETE MIX SHALL BE IN ACCORDANCE WITH SECTION 26.4.2.2 (B) OF ACI 318-19.
- 8. USE TYPE V CEMENT WHEN HIGH SULFATE RESISTANCE IS REQUIRED BY THE GEOTECHNICAL REPORT OR WHEN THE 'S' EXPOSURE CLASS IS DESIGNATED AS S2 OR S3. IF S3 IS REQUIRED, POZZOLAN OR SLAG CEMENT IN ACCORDANCE WITH ASTM C1012 IS ALSO REQUIRED.

9. MATERIAL DESIGNATIONS:

- A. CEMENT B. NORMAL WEIGHT AGGREGATES C. LIGHTWEIGHT AGGREGATES
- D. FLY ASH, CLASS F POZZOLAN
- E. DEFORMED BAR ANCHORS (DBA)
- F. HEADED STUD ANCHORS (HSA)
- G. AIR ENTRAINMENT ADMIXTURES H. WATER REDUCING ADMIXTURES
- . RETARDING ADMIXTURES
- J. WATER REDUCING & RETARDING ADMIXTURES
- K. HIGH RANGE WATER REDUCING ADMIXTURES HIGH RANGE WATER REDUCING & RETARDING ADMIXTURES
- M. ADMIXTURES ARE TO COME FROM AN ISO9001 QUALITY CERTIFIED MANUFACTURER. ALL ADMIXTURES ARE TO COME FROM THE SAME MANUFACTURER TO ENSURE COMPATIBILITY.
- N. NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER PRODUCTS THAT REACT ADVERSELY WITH THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.
- 10. A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCING WORK. WHERE A SHRINKAGE LIMIT REQUIREMENT IS LISTED IN THE SCHEDULE ABOVE, TESTING PER ASTM C157 SHALL BE PERFORMED.
- 11. PLACEMENT, CURING, AND PROTECTION OF CONCRETE SHALL CONFORM TO ACI 318-19. THE USE OF CHEMICALS OR ADDITIVES TO PREVENT FREEZING SHOULD NOT BE PERMITTED, REFER TO SPECIFICATIONS AND TO DIRECTIVES BY STRUCTURAL ENGINEER FOR ADDITIONAL COLD WEATHER REQUIREMENTS. ALL CONCRETE SHALL BE PROPERLY VIBRATED IN PLACE USING INTERNAL VIBRATING RODS (MECHANICAL OR ELECTRICAL)
- 12. ALL SLABS ON GRADE (EXCLUDING MAT SLAB FOUNDATIONS) SHALL BE PLACED WITH CONTROL JOINTS OR SAW CUTS AT NO MORE THAN 30 TIMES THE SLAB THICKNESS ON CENTER (MAXIMUM) OR AS SHOWN/NOTED ON DRAWINGS. LENGTH TO WIDTH RATIO OF THE SLAB BETWEEN CONTROL JOINTS EACH WAY SHALL BE NO MORE THAN 1.25. COMPLETE CONTROL JOINTS WITHIN 12 HOURS OF CONCRETE PLACEMENT. TOOLED CONTROL JOINTS ARE TO BE A MINIMUM 1/4 OF THE SLAB THICKNESS AND NO MORE THAN 1/3 OF THE SLAB THICKNESS. FOR SAW CUT CONTROL JOINTS, SEE THE TYPICAL SLAB ON GRADE JOINT DETAILS.
- 13. SLAB ON GRADE CONSTRUCTION JOINTS SHALL NOT EXCEED 125' 0" O.C. IN ANY DIRECTION. CONSTRUCTION JOINTS MAY BE EITHER A DOWEL TYPE CONSTRUCTION JOINT OR A KEYWAY TYPE CONSTRUCTION JOINT. SEE THE SLAB JOINT TYPICAL DETAILS FOR MORE INFORMATION. CONSTRUCTION JOINTS SHALL NOT OCCUR IN MAT SLAB FOUNDATIONS.
- 14. CONCRETE TESTS WILL BE MADE ON MAJOR POURS AND AT SUCH OTHER TIMES AS MAY BE REQUIRED BY THE ENGINEER. EACH TEST SHALL CONSIST OF (4) CYLINDERS OF WHICH ONE SHALL BE TESTED AT SEVEN DAYS, TWO TESTED AT TWENTY-EIGHT DAYS AND ONE RETAINED IN RESERVE FOR LATER TESTS, IF REQUIRED. IN GENERAL, ONE TEST SHALL BE MADE FOR EACH 150 CUBIC YARDS OF CONCRETE OR EVERY 5000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS ON EACH DAY'S POUR. SPECIMENS SHALL BE MADE AND TESTED IN ACCORDANCE WITH ASTM C31 & C39 STANDARDS. SLUMP AND AIR ENTRAINMENT TESTS SHALL ALSO BE MADE WITH EACH SET OF CYLINDERS TAKEN.
- 15. BEFORE CONCRETE IS POURED. CHECK WITH ALL TRADES TO INSURE PROPER PLACEMENT OF ALL OPENINGS. SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC., RELATED TO THE WORK.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT, REMOVAL, AND DESIGN OF ALL FORMWORK AND SHORING.
- 17. SUSPENDED CONCRETE STRUCTURAL MEMBERS SHALL NOT BE STRIPPED OF FORMS UNTIL CONCRETE HAS REACHED ITS DESIGN STRENGTH.
- 18. FOR LAP SPLICE LENGTH, SEE CONCRETE REINFORCING LAP SPLICE LENGTH SCHEDULE.
- 19. SEE CIVIL DRAWINGS FOR SITE CONCRETE REQUIREMENTS

S-001	GENERAL STRUCTURAL NOTES										
S-002	GENERAL STRUCTURAL NOTES										
S-011	SPECIAL INSPECTIONS										
S-021	STRUCTURAL SCHEDULES										
S-100	SITE PLAN										
S-111	TANK FOUNDATION PLAN										
S-121	TANK LID PLAN										
S-122	VALVE VAULT PLAN										
S-201	TANK SECTION										
S-501	STRUCTURAL DETAILS										
S-502	STRUCTURAL DETAILS										
TOTAL: 11											

FOUNDATIONS

- REPORT NUMBER: 133-024 REPORT DATE: JULY 2, 2025
- THE CONTRACTOR'S RISK.

DEFERRED SUBMITTALS

- B. TANK HATCH

SHOP DRAWINGS

- THE FOLLOWING ITEMS:
- A. CONCRETE MIX DESIGNS
- B. REINFORCING STEEL
- GUARDRAILS, LADDERS, ETC.)
- D. TANK HATCH

DRYPACK / FLOWABLE GROUT

- ACCORDANCE WITH ASTM C1107.
- ACCORDANCE WITH ASTM C1107.

STEEL REINFORCING

- 1. TYPICAL REINFORCING BAR STRENGTHS: A. REINFORCING (NON-WELDABLE) B. REINFORCING (WELDABLE)
- 2. TYPICAL CLEAR CONCRETE COVERAGES
- C. ALL OTHERS PER LATEST EDITION OF ACI 318
- MAXIMUM ON CENTERS.

= ASTM C618 = ASTM A496 = ASTM A108 = ASTM C260 = ASTM C494, TYPE 'A' = ASTM C494, TYPE 'B' = ASTM C494. TYPE 'D' = ASTM C494, TYPE 'F = ASTM C494, TYPE 'G'

= ASTM C33

= ASTM C330

= ASTM C150 OR ASTM C595

1. GEOTECHNICAL CONSULTANT: CHRISTENSEN GEOTECHNICAL

ANY ADDENDUMS, ALTERATIONS, OR FIELD CHANGES TO THE ABOVE REFERENCED GEOTECHNICAL REPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND INCORPORATION INTO THE STRUCTURAL DESIGN. ANY CONSTRUCTION COMPLETED BEFORE THE REVIEW IS COMPLETED IS PERFORMED AT

2. SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED, UNIFORM, NATIVE SOILS OR ENTIRELY ON PROPERLY PLACED AND COMPACTED STRUCTURAL FILL, AS SPECIFIED IN THE GEOTECHNICAL REPORT. DESIGN SOIL BEARING VALUE IS 1700 PSF. BOTTOM OF FOOTINGS SHALL BEAR AT A MINIMUM OF 40-INCHES BELOW LOWEST ADJACENT FINAL GRADE EXCEPT THAT BOTTOM OF INTERIOR FOOTINGS NOT SUBJECT TO ANY FREEZING MAY BEAR AT A MINIMUM OF 18-INCHES BELOW TOP OF INTERIOR SLAB.

3. A 1.33 ALLOWABLE SOIL BEARING PRESSURE INCREASE IS ALLOWED FOR WIND & SEISMIC LOADING.

4. ANY FILL TO BE PLACED UNDER THE BUILDING AND FOOTINGS SHALL MEET THE SOIL PROPERTY AND COMPACTION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT. EXTENT OF THE FILL BEYOND THE EDGE OF THE FOOTINGS SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

5. ALL FILL AND BACK FILL SHALL BE COMPACTED AS REQUIRED BY THE GEOTECHNICAL ENGINEER OF RECORD.

6. ALL WATER SHALL BE REMOVED FROM FOUNDATION EXCAVATION PRIOR TO PLACING OF CONCRETE. DO NOT PLACE CONCRETE UNDER WATER OR ON FROZEN GROUND.

7. ANY UNUSUAL SOIL CONDITIONS (WATER, SOFT LAYERS, ROCK OUTCROPPINGS, ETC.) ENCOUNTERED DURING EXCAVATION FOR FOOTINGS SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE STRUCTURAL AND GEOTECHNICAL ENGINEERS PRIOR TO PROCEEDING.

1. DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.

2. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD THROUGH THE ARCHITECT AND GENERAL CONTRACTOR WITHIN 6 WEEKS OF AWARD OF CONTRACT TO THE GENERAL CONTRACTOR. ONCE THE SUBMITTAL DOCUMENTS HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS, THE ENGINEER OF RECORD WILL FORWARD THEM TO THE ARCHITECT WITH A NOTATION INDICATING THAT THEY ARE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE ARCHITECT WILL FORWARD THE DEFERRED SUBMITTAL DOCUMENTS TO THE GENERAL CONTRACTOR WHO WILL MAINTAIN ONE SET ON SITE FOR REFERENCE BY THE CITY INSPECTOR. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

3. ITEMS THAT ARE SUBMITTED FOR CONSIDERATION AS DEFERRED SUBMITTALS ARE AS FOLLOWS: A. PREFABRICATED STEEL STAIRS, HANDRAILS, GUARDRAILS, LADDERS, ETC.

1. SHOP DRAWINGS SHALL BE SUBMITTED TO THE GENERAL CONTRACTOR PRIOR TO FABRICATION OR ERECTION FOR

. MISCELLANEOUS METALS (INCLUDING BUT NOT LIMITED TO PREFABRICATED STEEL STAIRS, HANDRAILS,

2. THE GENERAL CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES OF ALL SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OR ERECTION. FIVE (5) WORKING DAYS (MINIMUM) SHALL BE ALLOWED FOR THE REVIEW OF THESE SHOP DRAWINGS BY THE STRUCTURAL ENGINEER.

3. THE GENERAL CONTRACTOR WILL REVIEW AND STAMP ALL SHOP DRAWINGS AND PRODUCT DATA FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS PRIOR TO SUBMISSION, ANY SHOP DRAWINGS OR PRODUCT DATA NOT REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR WILL BE RETURNED WITHOUT REVIEW.

4. ANY SHOP DRAWING NOT CHECKED AND INITIALED BY THE SUPPLIER/DETAILER PRIOR TO SUBMITTING FOR ARCHITECTURAL AND ENGINEERING REVIEW, WILL BE RETURNED WITHOUT REVIEW.

5. THE CONSTRUCTION DOCUMENTS MAY NOT BE REPRODUCED AND USED TO CREATE SHOP DRAWINGS WITHOUT THE PERMISSION FROM THE ARCHITECT OR ENGINEER.

1. THE SPACE BENEATH ALL BASE PLATES AND BEARING PLATES SHALL BE THOROUGHLY CLEANED BEFORE DRYPACKING OR GROUTING. DRYPACK / GROUT SOLID BENEATH ALL BASE PLATES AND BEARING PLATES. NO VOIDS ARE PERMISSIBLE. USE OF DRYPACK OR FLOWABLE GROUT IS AT THE CONTRACTORS OPTION UNLESS SPECIFICALLY NOTED ON THE PLANS OR DETAILS. DRYPACK / GROUT PER THE FOLLOWING:

A. DRYPACK: PORTLAND CEMENT, ASTM C150, TYPE I; AND CLEAN, NATURAL SAND, ASTM C404, SIZE NO. 2. MIX AT RATIO OF 1 PART CEMENT TO 2-1/2 PARTS SAND, BY VOLUME, WITH MINIMUM WATER REQUIRED FOR PLACEMENT AND HYDRATION. MINIMUM COMPRESSIVE STRENGTH SHALL BE 5,000 PSI AT 28 DAYS WHEN TESTED IN

B. FLOWABLE GROUT: PREMIXED, NONMETALLIC, NONCORROSIVE, NONSTAINING GROUT CONTAINING SELECTED SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTICIZING AND WATER-REDUCING AGENTS, COMPLYING WITH ASTM C1107, OF CONSISTENCY SUITABLE FOR APPLICATION, AND A 30-MINUTE WORKING TIME. MINIMUM COMPRESSIVE STRENGTH SHALL BE 5000 PSI AT 28 DAYS WHEN TESTED IN

> = ASTM A615, DEFORMED, Fy = 60 KSI (420 MPa) = ASTM A706, DEFORMED, Fy = 60 KSI (420 MPa)

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3" B. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER

= 2" (#6 AND LARGER) = 2" (#5 AND SMALLER)

3. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. LATEST ACI CODE AND DETAILING MANUAL APPLY. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE OR MASONRY. REINFORCING BAR SPACINGS GIVEN ARE

4. ALL REINFORCING TO BE WELDED SHALL BE WELDED IN ACCORDANCE WITH AWS D1.4. NO TACK WELDING OF REINFORCING BARS IS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE BY STRUCTURAL ENGINEER.

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PROJECT NUMBER 14018

PROJECT MANAGER CJS

07-09-2025 DESIGNED BY QTL

KUCTURAL	ABBREVIATIONS			STWBULS & WAR
AB. ABV.	ANCHOR BOLT(S) ABOVE ADDITION (AL)	IN. INSUL. INT	INCH INSULATION INTERIOR	
@	AT	I.F.	INSIDE FACE	
ALT.		ІТ	IONT	
ARCH.	ARCHITECT (URAL)	JST.	JOIST	
BM.	BEAM	KLF	KIPS PER LINEAL FOOT	
BLK'G.	BLOCKING	KSF	KIPS PER SQUARE FOOT	
BLVV. BPL.	BASE PLATE	K	KIPS PER SQUARE INCH	ss
BRG.	BEARING			
BTWN. BLDG	BETWEEN BUILDING	LF. LBS	LINEAL FOOT POUNDS	
BOT.	BOTTOM	LLH	LONG LEG HORIZONTAL	
CES		LLV	LONG LEG VERTICAL	
C.J.	CONSTRUCTION JOINT	MAS.	MASONRY	
	OR CONTROL JOINT	MAX.		
CJP. CMU	COMPLETE JOINT PENETRATION CONCRETE MASONRY UNIT	MCJ. MECH.	MASONRY CONTROL JOINT MECHANICAL	
COL.	COLUMN	MFR.	MANUFACTURER	
CONC. CONST		MIN. MISC	MINIMUM MISCELLANEOUS	
CONT.	CONTINUOUS	Mieo.		
CTR.	CENTER	N.I.C. NTS	NOT IN CONTRACT	
DB.	DECK BEARING	11.1.0.		
DBA		OPN'G.	OPENING	
DET.	DETAIL	0.C.	ON CENTER	
DF	DOUGLAS FIR-LARCH	0.F.	OUTSIDE FACE	
DIA. DIM.	DIAMETER DIMENSION	0005J.	OPEN WEB STEEL JOIST	
DWG.	DRAWING	PAF	POWDER ACTUATED FASTENER	
DVVL.	DOWEL	PCF	POUNDS PER CUBIC FOOT PRE-ENGINEERED METAL BUILDING	
EA.	EACH	PL.	PLATE	
E.J.	EXPANSION JOINT (SEISMIC SEPARATION JOINT)	PNL PSF	PANEL POUNDS PER SOUARE FOOT	
ELEV.	ELEVATION	PSI	POUNDS PER SQUARE INCH	
		PT	POST-TENSIONED	
EQUIT : EQ.	EQUAL	REINF.	REINFORCING	
EXIST.	EXISTING	RBS	REDUCED BASE STUD	
EXF. EXT.	EXTERIOR	REQ'D.	REQUIRED	
E.F.	EACH FACE			J
E.W.	EACH WAY	SHT. SHT'G.	SHEET	
F.D.	FLOOR DRAIN	SI	SPECIAL INSPECTION	<u>}</u> /// ///⊠//// /// }
FDIN. FF	FOUNDATION FINISH FLOOR	S.O.G. STD	SLAB ON GRADE STANDARD	<i>₹<i>7//⊨///→//→//</i>→</i>
FIN.	FINISH	STIFF.	STIFFENER	
FL. FT	FLOOR	STL.	STEEL	₹¥
FTG.	FOOTING	SIM.	SIMILAR	
FV.	FIELD VERIFY	STRC.	STRUCTURAL	
GA.	GAUGE	01/10.	STREELED	f // // // f
GALV. GERC	GALVANIZED	T&B TEMP	TOP AND BOTTOM	₹ <u>₩₩₩₩₩₩₩₩</u>
GLB.	GLU-LAMINATED BEAM	T.O.	TOP OF	
GR.	GRADE GENERAL STRUCTURAL NOTES	TOC		
0011	CENERAE STRUCTURAE NOTES	TOS	TOP OF SLAB	₹=====₹
HB. HT	HORIZONTAL BRIDGING	TOW	TOP OF WALL	
HORIZ.	HORIZONTAL	112.		Ŀ <u> </u>
HSA	HEADED STUD ANCHORS	U.N.O.	UNLESS NOTED OTHERWISE	
IBC	INTERNATIONAL BUILDING CODE	VERI. w/	VERTICAL WITH	
ICBO	INTERNATIONAL CONFERENCE	WWF	WELD WIRE FABRIC	
	OF BUILDING OFFICIALS	WWM WT	WELD WIRE MESH WEIGHT	
		WP	WOOD POST	<u>ب</u>

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RKS LEGEND

	CONTINUOUS CONCRETE FOOTING		OPENING
	SPOT / MAT CONCRETE FOOTING		CONCRETE SUSPENDED SLAB, SEE KEYED NOTES FOR REQUIREMENTS
	FOOTING STEP		CONCRETE OVER STEEL DECK, SEE PLAN FOR ORIENTATION, AND GSN & SCHEDULE FOR
	STEP IN TOP OF CONCRETE		REQUIREMENTS STEEL DECK, SEE PLAN FOR ORIENTATION, AND GSN &
	BLOCK OUT AT COLUMN		SCHEDULE FOR REQUIREMENTS
	HAIRPIN TENSION BAR		HORIZONTAL BRIDGING CROSS BRIDGING
	TIE ROD	xx	WOOD SHEATHING (FLOOR OR ROOF), SEE PLAN FOR
	CONCRETE WALL		ORIENTATION & REQUIREMENTS
	CONCRETE WALL BLOCK OUT		STRAPPING
	CONCRETE COLUMN IN WALL	Dx	SNOW DRIFT, SEE SCHEDULE
		XX'-XX"	ELEVATION
	BEAM IN WALL BELOW	•	
			INDICATES SPAN DIRECTION OF CONCRETE ELEMENTS
	WOOD SHEAR WALL	•	EXTENT OF CONDITION SPECIFIED
	BEAM IN WALL BELOW		CONTINUATION OF CONDITION
	WOOD WALL (NON-SHEAR WALL)		
	COLD-FORMED STEEL WALL	### \$####	DETAIL # SHEET #
	BEAM IN WALL BELOW		
		x	KEYED NOTE
	WALL THAT STOPS AT BOTTOM OF FLOOR OR ROOF (FLOOR OR ROOF	AB#	ANCHOR BOLT
	BEAM IN WALL THAT STOPS AT	AT-#	ANCHOR TIE DOWN SYSTEM
	BOTTOM OF FLOOR OR ROOF	B-#	STEEL COLUMN BASE PLATE
	(NOT WITHIN A WALL) AT OR BELOW FLOOR OR ROOF	BRGPL-#	STEEL BEARING PLATE
	NON-STRUCTURAL WALL THAT	C-# CB-#	STEEL COLUMN CAP PLATE
	STOPS BELOW BOTTOM OF FLOOR OR ROOF (AIR GAP	CC-#	CONCRETE COLUMN
	FLOOR OR ROOF STRUCTURE)	CFSB-#	COLD-FORMED STEEL BEAM
	COLUMN THAT STOPS AT BOTTOM	CP-#	CONCRETE PEDESTAL
	COLUMN THAT FITHER STARTS AT	CTW-#	CONCRETE TILT WALL
	OR CONTINUES THROUGH FLOOR OR ROOF STRUCTURE	CW-#	
	WOOD POST (SOLID OR BUILT-UP)	FC#	SPOT FOOTING
	HSS TUBE STEEL COLUMN	FTAO-#	FORCE TRANSFER AROUND
	WIDE FLANGE STEEL COLUMN		OPENING
	PIPE/ROUND HSS STEEL COLUMN	GB-#	
	CONCRETE OR MASONRY COLUMN	HCMC-#	HOLLOW CLAY MASONRY COLUMN
		HCML-#	HOLLOW CLAY MASONRY LINTEL
	STEEL COLUMN MARK	HCMW-#	HOLLOW CLAY MASONRY WALL
		HP-#	HAIRPIN TENSION BAR
	STEEL COLUMN BASE PLATE MARK	L-#	STEEL LEDGER
		MC-#	MASONRY COLUMN
	BEAM SIZE	ML-#	
_	HSA QUANTITY ON BEAM PRE-CAMBER AT MID-SPAN OF BEAM	RW-#	RETAINING WALL
•		SC-#	STEEL COLUMN
	MOMENT CONNECTION (SFRS)	SD-#	STEEL DECK
	MOMENT CONNECTION (GRAVITY)	SW-#	WOOD SHEAR WALL
	COLLECTOR CONNECTION IDENTIFICATION (SFRS)	T-#	FLOOR-TO-FLOOR TIE
	BEAM SPLICE	WB-#	WOOD BEAM
	BRACED FRAME ELEMENT	WL-#	WOOD LEDGER
	KICKER BRACE	WP-#	
_		vv vv -#	

GENERAL

PROJECT NUMBER 14018

PROJECT MANAGER

STRUCTURAL NOTES

date 07-09-2025

DESIGNED BY

S-002

SPECIAL INSPECTION

SPECIAL INSPECTIONS:

- 1. SPECIAL INSPECTIONS ARE REQUIRED AS DESCRIBED IN CHAPTER 17 OF THE 2021 IBC. THE OWNER OR OWNER'S AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION ON THE TYPES OF WORK SPECIFIED IN SECTION 1705 AND IDENTIFY THE APPROVED AGENCIES TO THE BUILDING OFFICIAL. THESE SPECIAL INSPECTIONS AND TESTS ARE IN ADDITION TO THE INSPECTIONS BY THE BUILDING OFFICIAL THAT ARE IDENTIFIED IN SECTION 110.
- 2. THE SPECIAL INSPECTION REQUIREMENTS OF THIS SECTION OF THE GENERAL STRUCTURAL NOTES SERVE AS THE ENGINEER OF RECORD'S STATEMENT OF SPECIAL INSPECTIONS REQUIRED BY CHAPTER 17 OF THE 2021 IBC.

SPECIAL INSPECTOR QUALIFICATIONS & RESPONSIBILITIES:

- 1. PRIOR TO THE START OF CONSTRUCTION, THE APPROVED AGENCIES SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING THE COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION.
- 2. APPROVED AGENCIES SHALL KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS. THE APPROVED AGENCY SHALL SUBMIT REPORTS OF SPECIAL INSPECTIONS AND TEST TO THE BUILDING OFFICIAL AND TO THE ARCHITECT / ENGINEER OF RECORD. A. REPORTS SHALL INDICATE THAT WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE
- TO THE APPROVED CONSTRUCTION DOCUMENTS. B. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
- C. ANY DISCREPANCIES THAT ARE NOT CORRECTED SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ARCHITECT/ENGINEER OF RECORD PRIOR TO COMPLETION OF THAT PHASE OF WORK. D. THE INSPECTOR SHALL KEEP A MARKED-UP SET OF DRAWINGS SHOWING THE EXTENT AND TIME OF ALL
- INSPECTIONS AND TESTING.
- E. A FINAL SIGNED REPORT DOCUMENTING ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND ARCHITECT/ENGINEER OF RECORD AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE OWNER OR OWNER'S AGENT. THE REPORT SHALL INCLUDE THE MARKED-UP SET OF DRAWINGS OUTLINED ABOVE.

CONTRACTOR RESPONSIBILITIES:

- 1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND/SEISMIC FORCE RESISTING SYSTEM. DESIGNATED WIND/SEISMIC SYSTEM, OR A WIND/SEISMIC FORCE RESISTING COMPONENT SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THAT SYSTEM OR COMPONENT. THIS STATEMENT SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS.
- 2. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH ALL REQUIRED INSPECTIONS, TESTING AND STRUCTURAL OBSERVATIONS. THE CONTRACTOR SHALL NOT PROCEED WITH SUBSEQUENT WORK UNTIL REQUIRED INSPECTIONS, TESTING AND STRUCTURAL OBSERVATIONS HAVE BEEN COMPLETED.
- 3. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTIONS.
- 4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST (2) DAYS PRIOR TO ANY REQUIRED STRUCTURAL OBSERVATIONS.

SPECIAL INSPECTION OF FABRICATED ITEMS:

- 1. ALL FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES PERFORMED OFFSITE SHALL BE SPECIAL INSPECTED PER SECTION 1704.2.5.
- 2. WHERE THE FABRICATOR IS REGISTERED AND APPROVED IN ACCORDANCE WITH SECTION 1704.2.5.1, THEY SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER OR THE OWNER'S AGENT FOR SUBMITTAL TO THE BUILDING OFFICIAL AT THE COMPLETION OF FABRICATION STATING THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

SUBMITTALS TO THE BUILDING OFFICIAL:

- 1. IN ADDITION TO THE SUBMITTAL OF REPORTS OF SPECIAL INSPECTIONS AND TESTS IN ACCORDANCE WITH SECTION 1704.2.4, REPORTS AND CERTIFICATES SHALL BE SUBMITTED BY THE OWNER OR OWNER'S AGENT TO THE BUILDING OFFICIAL FOR EACH OF THE FOLLOWING:
- A. CERTIFICATES OF COMPLIANCE FOR APPROVED FABRICATORS.
- B. CERTIFICATES OF COMPLIANCE FOR SEISMIC QUALIFICATIONS OF NON-STRUCTURAL COMPONENTS, SUPPORTS, AND ATTACHMENTS. C. CERTIFICATES OF COMPLIANCE FOR DESIGNATED SEISMIC SYSTEMS.
- D. REPORTS OF PRE-CONSTRUCTION TESTS FOR SHOTCRETE.
- CERTIFICATES OF COMPLIANCE FOR OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.
- F. REPORTS OF MATERIAL COMPLIANCE FOR WELDABILITY OF REINFORCING BARS IN CONCRETE.
- G. REPORTS OF MILL TESTS FOR REINFORCING BARS USED IN SPECIAL CONCRETE MOMENT FRAMES, SPECIAL STRUCTURAL WALLS OR COUPLING BEAMS.

STRUCTURAL OBSERVATIONS:

- 1. STRUCTURAL OBSERVATIONS ARE REQUIRED PER SECTION 1704.6.1 OF THE 2021 IBC. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ENSIGN ENGINEERING AS REQUIRED FOR CRITICAL PHASES OF CONSTRUCTION. THE STRUCTURAL OBSERVER SHALL VISUALLY OBSERVE REPRESENTATIVE LOCATIONS OF STRUCTURAL SYSTEMS, DETAILS, AND LOAD PATHS FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, MAT FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, CONCRETE COLUMNS, CONCRETE SUSPENDED SLABS, AND CONCRETE SHEAR WALLS.
- 2. COPIES OF THE STRUCTURAL OBSERVATION REPORT WILL BE DISTRIBUTED TO THE OWNER, ARCHITECT, CONTRACTOR AND BUILDING OFFICIAL.
- 3. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE SPECIAL INSPECTIONS REQUIRED BY THE 2021 IBC AND SHALL NOT BE CONSTRUED AS APPROVAL OF CONSTRUCTION.

REQUIRED SPECIAL INSPECTION OR TESTING:

THE FOLLOWING MATERIALS. SYSTEMS AND COMPONENTS REQUIRE SPECIAL INSPECTION OR TESTING PER CHAPTER 17 OF THE 2021 IBC:

- 1. SPECIAL CASES (SECTION 1705.1.1)
- A. SPECIAL INSPECTION AND TESTING SHALL BE PROVIDED FOR POST INSTALLED ANCHORS PER THE ICC OR IAPMO REPORT.
- 2. CONCRETE CONSTRUCTION (SECTION 1705.3):
- A. SPECIAL INSPECTION AND TESTS FOR CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CONCRETE CONSTRUCTION SPECIAL INSPECTION TABLE AND SECTION 1705.3 OF THE 2021 IBC. B. SEE TABLE 1705.3 OF THE 2021 IBC FOR APPLICABLE REFERENCE STANDARDS.
- C. WELDING OF REINFORCING BARS: SPECIAL INSPECTION OF WELDING AND QUALIFICATIONS OF SPECIAL INSPECTORS FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.4 FOR SPECIAL INSPECTION AND FOR SPECIAL INSPECTOR QUALIFICATIONS.
- D. IN THE ABSENCE OF SUFFICIENT DATA OR DOCUMENTATION PROVIDING EVIDENCE OF CONFORMANCE TO QUALITY STANDARDS FOR MATERIAL IN CHAPTERS 19 AND 20 OF ACI 318, THE BUILDING OFFICIAL SHALL REQUIRE TESTING OF MATERIALS IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND CRITERIA FOR THE MATERIAL IN CHAPTERS 19 AND 20 OF ACI 318.
- 3. SOILS (SECTION 1705.6):
- A. SPECIAL INSPECTIONS AND TESTS OF EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD-BEARING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE SOILS SPECIAL INSPECTION TABLE AND THE FOLLOWING: a. THE APPROVED GEOTECHNICAL REPORT AND APPROVED CONSTRUCTION DOCUMENTS SHALL BE USED TO DETERMINE COMPLIANCE.
- b. DURING FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL DETERMINE THAT PROPER MATERIALS AND
- PROCEDURES ARE USED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. c. WHERE A GEOTECHNICAL REPORT IS NOT PROVIDED. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D 1557.

DEFINITIONS:

- 1. THE FOLLOWING DEFINITIONS APPLY TO ALL SPECIAL INSPECTION TABLES (WHERE APPLICABLE) UNLESS SPECIFICALLY NOTED OTHERWISE:
- A. CONTINUOUS FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR.
- B. PERIODIC AN APPROVED SPECIAL INSPECTOR MUST OBSERVE THE WORK REQUIRING SPECIAL INSPECTION PRIOR TO COMMENCEMENT OF WORK, INTERMITTENTLY DURING THE WORK, AND AT COMPLETION OF THE WORK.

VERIFICATION AND INSPECT

REINFORCEMENT, INCLUDING REINFORCING BAR WELDING VERIFICATION OF WELD

INSPECT SINGLE-PASS F INSPECT ALL OTHER WEI

CAST-IN-PLACE ANCHORS POST-INSTALLED ANCHORS

ADHESIVE ANCHORS INS **ORIENTATIONS TO RESIS**

MECHANICAL ANCHORS USE OF REQUIRED MIX DESIG

PRIOR TO CONCRETE PLACE SLUMP AND AIR CONTENT T CONCRETE AND SHOTCRETE

MAINTENANCE OF SPECIFIED **INSPECT PRE-STRESSED CO**

APPLICATION OF PRE-ST

GROUTING OF BONDED ERECTION OF PRECAST CON FOR PRECAST CONCRETE D

CLASSIFIED AS MODERATE C STRUCTURES ASSIGNED TO CONNECTIONS AND REINFOR INSTALLATION OF THE E

COMPLETION OF THE CO

COMPLETION OF CONNE INSPECT INSTALLATION TOL

FOR COMPLIANCE WITH ACI

IN-SITU CONCRETE STRENGT CONCRETE AND PRIOR TO R

STRUCTURAL SLABS FORMWORK FOR SHAPE, LC FORMED

NOTES:

SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH SECTION 17.8.2 OF ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK

VERIFICATION AND INSPECT

VERIFY MATERIALS BELOW

BEARING CAPACITY VERIFY EXCAVATIONS ARE

MATERIAL

PERFORM CLASSIFICATION

DURING FILL PLACEMENT, V w/ THE PROVISIONS OF THE THICKNESSES DURING PLA PRIOR TO PLACEMENT OF C

PREPARED PROPERLY

CONCRETE CONSTRUCTION SPECIAL INSPECTION PER SECTION 1705.3 OF IBC 2021		
ION	CONTINUOUS	PERIODIC
G PRE-STRESSING TENDONS AND VERIFYING PLACEMENT		Х
B:		
ABILITY OF REINFORCING BARS OTHER THAN ASTM A706		Х
ILLET WELDS, MAXIMUM 5/16"		Х
LDS	Х	
		Х
IN HARDENED CONCRETE MEMBERS ^(NOTE 1)		
STALLED IN HORIZONTALLY OR UPWARDLY INCLINED ST SUSTAINED TENSION LOADS	Х	
AND ADHESIVE ANCHORS NOT DEFINED ABOVE		Х
GN		Х
EMENT, FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM ESTS, AND DETERMINE CONCRETE TEMPERATURE	Х	
E PLACEMENT FOR PROPER APPLICATION TECHNIQUES	Х	
D CURING TEMPERATURE AND TECHNIQUES		Х
DNCRETE FOR:		
RESSING FORCES	Х	
PRE-STRESSING TENDONS	Х	
NCRETE		Х
IAPHRAGM CONNECTIONS OR REINFORCMENT AT JOINTS OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT SUCH RCEMENT IN THE FIELD FOR:		
MBEDDED PARTS	Х	
ONTINUITY OF REINFORCEMENT ACROSS JOINTS	Х	
CTIONS IN THE FIELD	Х	
ERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS 550.5		Х
TH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED REMOVAL OF SHORES AND FORMS FROM BEAMS AND		Х
CATION, AND DIMENSIONS OF CONCRETE MEMBER BEING		Х

SOIL SPECIAL INSPECTION PER SECTION 1705.6 OF IBC 2021		
ΓΙΟΝ	CONTINUOUS	PERIODIC
SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE DESIGN		Х
EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER		Х
AND TESTING OF COMPACTED FILL MATERIALS		Х
ERIFY PROPER MATERIALS AND PROCEDURES IN ACCORDANCE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT CEMENT AND COMPACTION OF COMPACTED FILL.	Х	
COMPACTED FILL, INSPECT SUBGRADE AND VERIFY SITE HAS BEEN		Х

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SPECIAL INSPECTIONS

PROJECT NUMBER 14018

PROJECT MANAGER

CJS

07-09-2025 DESIGNED BY QTL

DATE

RETAINI	TAINING WALL SCHEDULE																														
	DIMENSIONS WALL REINFORCING									FOOTING REINFORCING				KE	Y REINFORCIN	G (IF APP	LICABLE)														
	WAL	Ĺ		FOOTING		KEY (IF		ABLE)			V	ERTICAL				HORIZON	TAL	LONGITU	DINAL			TRANS	VERSE		VERTICA	AL		HORIZON	TAL	BACKFILL	
									FRO	ONT SIDE	0	ENTER	BA	CK SIDE																SLOPE	
MARK	Α	В	C	D	E	F	G	Н	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	LOCATION	QUANTITY	SIZE	SPACING	SIZE	SPACING	LOCATION	SIZE	SPACING	LOCATION	SIZE	SPACING	LOCATION	(H:V)	COMMENTS
RW-8A																															
RW-8A	7' - 8" MAX.	8"	5' - 6"	3' - 0"	12"						#5	6" O.C.			#5	18" O.C.	CENTERED	(5) TOP & (5) BOTTOM	#5	EVENLY	#5	12" O.C.	TOP & BOTTOM							3:1	

NOTES:

CONTRACTOR TO DETERMINE WHICH WALL TYPE WITHIN MARK RW-xx SHALL BE USED BASED ON MAXIMUM RETAINED HEIGHT OF SOIL ABOVE TOP OF FOOTING (WALL DIMENSION "A"), TYPICAL, U.N.O.

- WHERE ELEMENTS OCCUR ABOVE RETAINING WALL (i.e. FENCE, ETC.): • SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS, TYPICAL U.N.O. WHERE ONLY ONE MAT OF WALL REINFORCING IS DESIGNATED, INSTALL (1) #4 HORIZONTAL BAR EACH FACE MINIMUM AT TOP OF WALL IN LIEU OF
- CENTERED HORIZONTAL BAR. ATTACHMENT OF ELEMENTS TO TOP OF RETAINING WALL SHALL BE DESIGNED BY OTHERS.
- IF FENCE IS PRESENT, FENCE SHALL BE AT LEAST 70% OPEN AND NO MORE THAN 6-FT IN HEIGHT. NOTIFY ENGINEER IF THESE LIMITS ARE EXCEEDED.

CONCRETE REINFORCING LAP SPLICE LENGTH SCHEDULE

	BAR		f'c = 3,	000 PSI				
BAR	DIAMETER	TYPICAL S	SPLICE (IN)	TOP BAR S	SPLICE (IN)	TYPICAL S		
SIZE	(IN.)	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A		
3	0.375	17	22	22	29	15		
4	0.500	22	29	29	38	19		
5	0.625	28	36	36	47	24		
6	0.750	33	43	43	56	29		
7	0.875	48	63	63	82	42		
8	1.000	55	72	72	94	48		
9	1.128	62	81	81	105	54		
10	1.270	70	91	91	118	61		
11	1 / 10	78	101	101	131	67		

NOTES:

. ALL LAP SPLICE LENGTHS ARE CLASS B UNLESS NOTED OTHERWISE ON PLANS.

. HORIZONTAL BARS ARE CLASSIFIED AS TOP BARS WHERE 12" OR MORE OF FRESH CONCRETE IS CAST BELOW THE LAP SPLICE.

3. FOR ALL EPOXY-COATED BARS, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY: • 1.5 WHEN CLEAR COVER IS LESS THAN 3 BAR DIAMETERS & CLEAR SPACING IS LESS THAN 6 BAR DIAMETERS, OR • 1.2 FOR ALL OTHER EPOXY-COATED BARS.

4. FOR ALL LIGHT-WEIGHT CONCRETE, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.33.

CONCRETE CONTINUOUS FOOTING SCHEDULE

				LONGITUDINAL	. RE
MARK	FOOTING TYPE	WIDTH	THICKNESS	QUANTITY	
FC2.0	CONTINUOUS	2' - 0"	12"	(2)	
NOTES:					

CONTRACTOR TO DETERMINE REQUIRED DEPTH OF FOOTINGS TO MEET FROST

PROTECTION. SEE FOUNDATION SECTION OF GSN FOR MINIMUM REQUIREMENTS. 2. AT CONTINUOUS FOOTINGS, SPACE LONGITUDINAL REINFORCING EVENLY, TYPICAL

UNLESS NOTED OTHERWISE.

3. AT SPOT FOOTINGS, SPACE LONGITUDINAL & TRANSVERSE REINFORCING EVENLY, TYPICAL UNLESS NOTED OTHERWISE.

4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

CONCRETE WALL SCHEDULE

	WALL		VERTICAL			HORIZONTAL		
MARK	THICKNESS	SIZE	SPACING	LOCATION	SIZE	SPACING	LOCATION	COMMENTS
CW-8A	8"	#5	8" O.C.	CENTER	#5	15" O.C.	CENTER	TYPICAL U.N.O.
NOTES.								

NOTES:

. EXTEND VERTICAL BARS FROM THE FOOTING TO WITHIN 3" OF TOP OF WALL.

- HOOKS AROUND BOTTOM MAT OF FOOTING REINFORCING.
- . EXTEND VERTICAL LEG OF DOWEL MIN. LAP SPLICE LENGTH INTO WALL.
- ALTERNATE DIRECTION OF STANDARD HOOK AT EVERY OTHER BAR. . INSTALL SCHEDULED HORIZONTAL REINFORCING WITHIN 4" OF TOP & BOTTOM OF WALL, U.N.O.
- INSTALL CORNER REINFORCING SO AS TO LAP HORIZONTAL REINFORCING. SEE "TYPICAL CONCRETE WALL INTERSECTION REINFORCING" STRUCTURAL DETAIL.
- EXTEND FROM THE FOOTING TO WITHIN 3" OF TOP OF WALL & EXTEND HORIZONTAL BARS MIN. LAP SPLICE LENGTH BEYOND EDGE OF OPENINGS.
- 8. ALL CONCRETE WALL TYPES MAY NOT BE USED, SEE PLAN FOR REQUIREMENTS.
- 9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

2. DOWELS MATCHING VERTICAL REINFORCING SIZE & SPACING SHALL EXTEND INTO FOOTING & TERMINATE WITH A 90-DEGREE STANDARD HOOK. ENSURE VERTICAL DOWEL

INSTALL (2) REBAR ABOVE, (1) REBAR @ EACH SIDE, & (1) REBAR BELOW ALL OPENINGS. PLACE STEEL WITHIN 2" OF OPENINGS, VERTICAL BARS AROUND OPENINGS SHALL

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THE STANDARD IN ENGINEERING

45 W 10000 S, Suite 500

SANDY

DIMENSIONS INDICATED IN CIVIL / MECHANICAL DRAWINGS GOVERN. CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE STARTING CONSTRUCTION. ANY DISCREPANCY SHALL BE ADDRESSED IMMEDIATELY. DO NOT SCALE

 SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
 COORDINATE STRUCTURAL REQUIREMENTS AT WALLS AND FOOTINGS WITH TYPICAL STRUCTURAL DETAILS. . COORDINATE LOCATIONS OF UTILITY TRENCHES (IF APPLICABLE) WITH RESPECTIVE DRAWINGS AND SUB-CONTRACTORS. SLAB REINFORCING SHALL BE CONTINUOUS OVER TRENCH.

PROVIDE FROST DEPTH PER GENERAL STRUCTURAL NOTES. COORDINATE FOOTING STEPS (IF APPLICABLE) WITH CIVIL PLANS. SEE TYPICAL CONCRETE STEPPED FOOTING DETAIL IN STRUCTURAL DETAILS. CONTRACTOR SHALL COORDINATE MAT SLAB DEPRESSIONS, AND SLAB SLOPES WITH MECHANICAL PLANS.

ALL OPENINGS THROUGH MAT SLAB, WALLS & LID ARE NOT SHOWN. COORDINATE PENETRATION REQUIREMENTS (ADDITIONAL FRAMING ELEMENTS OR REINFORCING) AND LOCATIONS WITH MECHANICAL, ELECTRICAL, AND TYPICAL

. CENTER ALL SPOT FOOTINGS UNDER COLUMNS AS SHOWN ON PLAN, TYPICAL U.N.O. . COORDINATE ALL PIPE PENETRATIONS WITH MECHANICAL DRAWINGS. COORDINATE REINFORCING REQUIREMENTS

10. ALL COLD JOINTS IN THE TANK (INCLUDING BUT NOT LIMITED TO COLD JOINTS IN THE TANK WALL, COLD JOINT BETWEEN TANK WALL AND MAT FOUNDATION SLAB, COLD JOINT BETWEEN TANK WALL AND TANK LID) SHALL BE SEALED WITH SIKA FLEX 2C NSF61 OR APPROVED EQUIVALENT, TYPICAL UNLESS NOTED OTHERWISE. 11. ALL FORM TIE HOLES IN THE TANK SHALL BE APPROPRIATELY PATCHED USING METHODS AND MATERIALS MEETING

12. MAXIMUM HEIGHT OF FILL OVER TOP OF TANK LID SHALL NOT EXCEED 12" IN HEIGHT. ELEVATION OF TANK AND FINISH GRADE SHALL BE COORDINATED WITH CIVIL DRAWINGS.

A. MAXIMUM TOTAL WEIGHT OF EQUIPMENT USED TO PLACE BACKFILL MATERIAL ON TANK ROOF SHALL NOT

B. MAXIMUM TOTAL WEIGHT OF OPERATIONS & MAINTENANCE VEHICLES AND/OR EQUIPMENT ON TANK LID SHALL

AT ALL FLOOR PENETRATIONS:

A. INSTALL ADDITIONAL REINFORCING PER "TYPICAL SLAB REINFORCING AT

OPENINGS" DETAIL.

B. INSTALL SEEP RING ON PIPE.

AT ALL WALL PENETRATIONS:

- A. INSTALL ADDITIONAL REINFORCING PER "TYPICAL ADDITIONAL REINFORCING @ CONCRETE WALL OPENING" DETAIL. B. INSTALL SEEP RING ON PIPE.

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- A. INSTALL ADDITIONAL REINFORCING PER "TYPICAL ADDITIONAL REINFORCING @ CONCRETE WALL OPENING" DETAIL. B. INSTALL SEEP RING ON PIPE.

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00	NORETE VACET CENERA
1.	DIMENSIONS INDICATED BEFORE STARTING CON DRAWINGS
2.	SEE GENERAL STRUCTU
3.	COORDINATE STRUCTU
4.	COORDINATE LOCATION
	CONTRACTORS. SLAB
5.	PROVIDE FROST DEPTH
	CIVIL PLANS. SEE TYPIC
6.	CONTRACTOR SHALL CO
1.	ALL OPENINGS THROUG
8	CENTER ALL SPOT FOO
9	COORDINATE ALL PIPE
0.	AT ALL PENETRATIONS
со	NCRETE VAULT KEYED N
(01	8" CONCRETE SLAB w/ # FILL.
02	

CONCRETE VAULT GENERAL NOTES

D IN CIVIL / MECHANICAL DRAWINGS GOVERN. CONTRACTOR TO VERIFY ALL DIMENSIONS NSTRUCTION. ANY DISCREPANCY SHALL BE ADDRESSED IMMEDIATELY. DO NOT SCALE

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OTINGS UNDER COLUMNS AS SHOWN ON PLAN, TYPICAL U.N.O. PENETRATIONS WITH MECHANICAL DRAWINGS. COORDINATE REINFORCING REQUIREMENTS WITH TYPICAL STRUCTURAL DETAILS.

NOTES

#5 @ 12" O.C. EACH WAY CENTERED IN SLAB OVER 4" LAYER OF FREE-DRAINING STRUCTURAL

NDED ROOF SLAB w/ #5 @ 12" O.C. EACH WAY CENTERED IN SLAB.

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VALVE VAULT PLAN

PROJECT NUMBER 14018 date 07-09-2025 PROJECT MANAGER

DESIGNED BY

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LAYTON

	SCHEMATICS & DIAGRAMS		SCHEMATICS & DIAGRAMS		POWER
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TERMINAL LUG OR STRIP	പ്	EMERGENCY STOP PUSH BUTTON (MAINTAINED)	£	DUPLEX RECEPTACLE
	TRANSFORMER	مله	NORMALLY CLOSED PUSH BUTTON	()	DUPLEX RECEPTACLE, RECESSED FLOOR MOUNTED
	GROUND CONNECTION		LOCKOUT STOP PUSH BUTTON	\oplus	DUPLEX RECEPTACLE, RECESSED CEILING MOUNTED
	BOND TO METALLIC WATER PIPE	, <u> </u>	NORMALLY OPEN PUSH BUTTON	⊕	QUADRAPLEX RECEPTACLE
•	BOND TO METALLIC WATER PIPE		CONTACT - TIME DELAY T.C. = NORMALLY OPEN W/TIME DELAY CLOSING.		QUADRAPLEX RECEPTACLE, RECESSED FLOOR MOUNTED
	BOND TO BUILDING STEEL	d b ^{T C}	I.C T.O. = NORMALLY OPEN WITH INSTANT CLOSING AND TIME DELAY OPENING.	*	QUADRAPLEX RECEPTACLE, RECESSED CEILING MOUNTED
Q	GENERATOR	1.0.	T.CT.O. = NORMALLY OPEN W/TIME DELAY CLOSING AND TIME DELAY OPENING AFTER DEENERGIZATION.	£	ISOLATED GROUND TYPE DUPLEX RECEPTACLE
	LIGHTING		CONTACT - TIME DELAY T.C. = NORMALLY CLOSED WITH TIME DELAY OPENING	Ŷ	SPECIAL PURPOSE OR WELDING OUTLET.
SYMBOL	DESCRIPTION	٩⁄٩ _{٢ ٥}	T.OT.C. = NORMALLY CLOSED WITH TIME DELAY OPENING AND TIME DELAY CLOSING AFTER DEENERGIZATION.		GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE.
	FLUORESCENT LIGHT FIXTURE, SEE FIXTURE SCHEDULE.	Τ.Ο.	I.OT.C. = NORMALLY CLOSED WITH INSTANT OPENING AND TIME DELAY CLOSING.		WEATHERPROOF CONVENIENCE OUTLET
	EMERGENCY LIGHTING, SEE FIXTURE SCHEDULE.	d þ	NORMALLY OPEN CONTACT		FLUSH FLOOR DEVICE BOX
F#	LIGHTING FIXTURE TYPE - SEE FIXTURE SCHEDULE.	¢∕¢	NORMALLY CLOSED CONTACT		HOME RUN TO PANEL - INDICATING 2 #12, #12 GND, 3/4" CONDUIT OR AS SHOWN.
\$	SINGLE POLE SWITCH	070	LIMIT SWITCH	#	HOME RUN TO PANEL - INDICATING NUMBER OF CONDUCTORS - #12 OR AS SHOWN.
\$ ₃	3 WAY SWITCH	о <mark>—</mark> С	PRESSURE SWITCH LOW	X-1,3,5	HOME RUN TO PANEL SHOWING BRANCH CIRCUIT NUMBERS.
\$ _m	WALL MOUNTED MOTION SWITCH - DUAL TECHNOLOGY	<u>°</u>	PRESSURE SWITCH HIGH	m	HATCH MARKS IN CONDUIT RUN DENOTES NUMBER OF CONDUCTORS IN CONDUIT. LONG HATCH MARK DENOTES GROUND CONDUCTOR.
\$ _T	MOTOR RATED TOGGLE SWITCH		FLOW SWITCH		UNLESS NOTED OTHERWISE. UNMARKED CONDUCTORS IN CONDUIT WITH 3 #1.2
\$ _D	DIGITAL OVERRIDE SWITCH	с С	LEVEL FLOAT SWITCH	(E)	DENOTES EXISTING EQUIPMENT OR DEVICES
\$ _P	SINGLE POLE SWITCH WITH PILOT LIGHT	00	TEMPERATURE SWITCH	T	THERMOSTAT
SP	RECESSED CEILING MOUNTED SPEAKER BY OTHERS	o o AMPS / POLES	DISCONNECT SWITCH SHOWN WITH RATING AND NUMBER OF POLES.	xM	MOTOR, X = HORSE POWER
Ð	WALL MOUNTED MOTION SENSOR	o teres	FUSEHOLDER OR FUSEBLOCK	Ē	CEILING EXHAUST FAN
0	CEILING MOUNTED MOTION SENSOR	P AMPS	CIRCUIT BREAKER OR MOTOR CIRCUIT PROTECTOR, SHOWN WITH TRIP	Ū	JUNCTION BOX
 €	CEILING-MOUNTED EXIT LIGHT, SEE FIXTURE SCHEDULE	b POLES	RATING AND NUMBER OF POLES.		ELECTRICAL PANEL, POWER OR LIGHTING
Ŷ	WALL-MOUNTED EXIT LIGHT, SEE FIXTURE SCHEDULE	H O A	3 POSITION SELECTOR SWITCH HAND - OFF - AUTO.	A	METER BASE
	RECESSED CAN LIGHT, SEE FIXTURE SCHEDULE	o oox	POSITION LEGEND: X=CLOSED O=OPEN	١	COMBINATION MOTOR STARTER, SEE SPECS
C	ONTROLS & INSTRUMENTS	ON OFF	2 POSITION SELECTOR SWITCH	٢	DISCONNECT SWITCH.
SYMBOL	DESCRIPTION	م ×٥	POSITION LEGEND: X=CLOSED O=OPEN		VOLTAGE RATING
AE	ANALYZER ELEMENT		TIMER RELAY CONTACT INSTANTANEOUS CLOSE TIME DELAY OPEN.		NEMA ENCLOSURE FUSE (NF-NO FUSE)
(AIT)	ANALYZING INDICATING TRANSMITTER		TIMER RELAY CONTACT NORMALLY OPEN TIME DELAY CLOSE.		POLES SIZE (AMPS)
CGD	COMBUSTIBLE GAS DETECTOR		FULL VOLTAGE NONREVERSING (FVNR) MOTOR STARTER OR CONTACTER NUMBER DESIGNATES NEMA SIZE		THIS NOTATION ADJACENT TO WALL OUTLET SYMBOL DENOTES
	CONDUCTIVITY INDICATING TRANSMITTER		RTU, PLC, OR RIO CONTACT	+0'-0"	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF OUTLET DEVICE. IF NOT NOTED, THE MOUNTING HEIGHT TO CENTER SHALL BE
(FF)		UM)	UTILITY METER	đ	AS DETAILED OR SPECIFIED.
(FLT)	FLOW INDICATING TRANSMITTER	-	BEACON ALARM LIGHT. LETTER INDICATES COLOR: R=RED, A=AMBER, B=BLUE, G=GREEN		MANUAL MOTOR STARTER WITH OVERLOADS
(FG)		<u>ک</u> ې	PILOT LIGHT. LETTER INDICATES COLOR: R=RED, A=AMBER, B=BLUE, G=GREEN		DANABER MOTOR
		° Ro	RELAY	E#	LICHTING FIVTURE TYPE SEE FIVTURE SCHEDUILE
	LEVEL INDICATING TRANSMITTER	o TD o	TIME DELAY RELAY	#	SINGLE POLE SWITCH
	LEVEL SWITCH	• AR •	ALARM RELAY	۹	3 WAY SWITCH
	LEVEL TRANSMITTER	ETM CETMO	ELAPSED TIME METER	+ 3 	4 WAY SWITCH
MF	MOISTURE ELEMENT	o Mo	MOTOR STARTER OR CONTACTOR COIL	*4	COMMUNICATION/DATA JACK. CONDUIT TO ABOVE CEILING.
	MOTOR OPERATED VALVE OR GATE	EOL	ELECTRONIC OVERLOAD RELAY		OWNER 10 RUN WIRING. DATA OR CATHODE RAY TUBE (CRT) TERMINAL OUTLET. + 1'-6".
<u>()</u>	OVER TORQUE SWITCH	SSRV	SOLID STATE REDUCED VOLTAGE STARTER		(SINGLE, DOUBLE) TELEPHONE JACK OUTLET. 1'-6". (SINGLE. DOUBLE. QUAD)
(PIT)	PRESSURE INDICATING TRANSMITTER	VFD	VARIABLE FREQUENCY DRIVE		
(PS)	PRESSURE SWITCH	HF	HARMONIC FILTER		
(SV)	SOLENOID OPERATED VALVE	₽ ^{CT'S}		6 1	: 2 : 3 : 3 : 4
	TEMPERATURE ELEMENT	Ц Ц Ц	CURRENT TRANSFORMER		4. G: NUMBER- SIZE OF NEUTRAL CONDUCTOR(S) FER CONDUIT 5. SIZE OF GROUND CONDUCTOR(S) PER CONDUIT 5. SIZE OF FACH CONDUIT IN INCHES
(15)	TEMPERATURE SWITCH		THERMAL OVERLOAD RELAY	KEY TO CONDUC	TOR SIZE & TYPE 6. CONDUIT NUMBER
	TEMPERATURE TRANSMITTER	•••	LTC CONNECTION	4 = # 4 AWG 2 = # 2 AWG 0 = # 0 AWC	COPPER 4 = #6 AWG COPPER 1/U = 1/U AWG COPPER 250 = 250 KCMIL COPPER COPPER 4 = #4 AWG COPPER 2/0 = 2/0 AWG COPPER 350 = 350 KCMIL COPPER COPPER 2 = #2 AWG COPPER $3/0 = 3/0$ AWG COPPER 500 - 500 KCMIL COPPER
(25)	LIMIT OR POSITION SWITCH	~~-	MC CONNECTION	$\delta = #8 \text{ AWG}$	COPPER $4/0 = 4/0$ AWG COPPER $750 = 750$ KCMIL COPPER
DS	DOOR SWITCH	(X)	MOTOR, X = HORSEPOWER		
			DEVICE LOCATED AT REMOTE LOCATION.		
			FUSE		
		•	NODE OR CONNECTION		

ABBREVIATIONS

_				
	A AFF Al	AMPERE ABOVE FINISHED FLOOR ANALOG INPUT	N NEC NFCA	N N N
	AIC AFD AO	AMPS INTERRUPTING CAPACITY ADJUSTABLE FREQUENCY DRIVES ANALOG OUTPUT	NOTC	A N N
	AS ATS	AIR SUPPLY AUTOMATIC TRANSFER SWITCH	NS NTS NTU	N N T
	BC C	BYPASS CONTACTOR CONDUIT	O.C. OF	C C
	CB CL2 CON	CIRCUIT BREAKER CHLORINE CONTACTOR	OIT OL OO	C C C
	CPM CPT CU	CUSTOMER POWER MONITORING CONTROL POWER TRANSFORMER COPPER, BARE	ÖR P	Ċ
	CV DCS	CONTROL VALVE DISTRIBUTED CONTROL SYSTEM	PB PCP PFR	P P P
	DI DO DV/DT	DISCRETE INPUT DISCRETE OUTPUT DIFFERENTIAL VOLTAGE/TIME	PI PLC	P P C
	DWG ELR	DRAWING END OF LINE RESISTER	PLI PKG PMP	P P P
	EIM EOL ES	ELAPSED TIME METER ELECTRONIC OVERLOAD EMERGENCY STOP	PNL PO PPG	P P P
	FA FC	FOUL AIR	PPH PPM PR	P P P
	FE FLA	FLOW ELEMENT FULL LOAD AMPS	PRES PS PSH	P P P
	FVNR FW	FULL VOLTAGE NON-REVERSING FINISHED WATER	PSI PV	P P
	G GES GECI	GROUND GROUNDING ELECTRODE SYSTEM	RAS RW RCL	R R R
	GFP	INTERRUPTER GROUND FAULT PROTECTION	RF RIO RS	R R R
	GPD GPH CPM	GALLONS PER DAY GALLONS PER HOUR	RSP RST RTD	R R R
	GRS H HI	GALLOND T ER MINUTE GALVANIZED RIGID STEEL HIGH	RTU RWT	D R R
	H2S HMI HOA	HYDROGEN SULFIDE HUMAN MACHINE INTERFACE HAND-OFF-ALITO	SEQ SES	S
	HOR	HAND-OFF-REMOTE CURRENT	SLC SLOS SMC	SS
	IC ICR IO	INSTRUMENTATION CABLE INTERMITTENT CYCLE REACTOR INPUT/OUTPUT	502 SP	C S S
	ISC ISR	SHORT CIRCUIT CURRENT INTRINSICALLY SAFE RELAY	SPC SPR SS	S S S
	JB L, LO	JUNCTION BOX	555 ST	S (2 S
	LÂN LC LCL	LOCAL AREA NETWORK LOOP CONTROLLER LEVEL CONTROL, LOW	TC TDOE	T T
	LCP LOS LR	LOCAL CONTROL PANEL LOCK-OUT-STOP LOCAL/REMOTE	TS TSP TVSS	T T T
	LS LTC	LEVEL SWITCH LIQUID TIGHT FLEXIBLE CONDUIT	TYP	S T
	M MA MAX	MOTOR MANUAL/AUTO, MILLIAMP MAXIMUM	UG V	V
	MC MCB MCC	MANUFACTURER'S CABLE MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER	VFD W	V M
	MCP MFR(S) MGD	MOTOR CIRCUIT PROTECTOR MANUFACTURER(S) MILLION GALLONS PER DAY	WP VFMP	VV M T
	MGL MH MIN	MILLIGRAMS PER LITER MANHOLE MINIMUM	XMTR ZS	+ T P
	ML MOV MTU	MIXED LIQUOR MOTOR OPERATED VALVE MASTER TELEMETRY UNIT	20	I

NEUTRAL NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL CONTRACTOR ASSOCIATION NORMALLY OPEN TIMED CLOSED NON-POTABLE WATER NITROGEN SUPPLY NOT TO SCALE FURBIDITY ON CENTER OVERFLOW OPERATOR INTERFACE TERMINAL OVERLOAD ON/OFF (MAINTAINED) OFF-REMOTE PHASE OR POLE PULL BOX PROCESS CONTROL PANEL PHAS/POWER FAILURE RELAY PULSE INPUT PROGRAMMABLE LOGIC CONTROLLER PLANT INFLUENT PACKAGE PUMP PANEL PULSE OUTPUT POUNDS PER GALLON POUNDS PER HOUR PARTS PER MILLION PAIR PRESSURE PRESSURE SWITCH PRESSURE SWITCH, HIGH POUNDS PER SQUARE INCH PROCESS VARIABLE RETURN ACTIVATED SLUDGE RAW WATER REMOTE I/O RADIO FREQUENCY REMOTE INPUT/OUTPUT RAW SEWAGE RAW SEWAGE PUMP RESET RESISTANCE TEMPERATURE DETECTOR REMOTE TELEMETRY UNIT REFLECTED WAVE TRAP SERVICE ENTRANCE EQUIPMENT SERVICE ENTRANCE SECTION SINGLE LOOP CONTROLLER START-LOCK-OFF-STOP SUBMERSIBLE MANUFACTURER CABLE SULFUR DIOXIDE SET POINT SPARE CONDUIT SPARE START/STOP SOLID STATE STARTER (SOFT START) Shunt Trip (TELEPHONE CABLE TIME DELAY ON ENERGIZE TEMPERATURE SWITCH TWISTED SHIELDED PAIR TRANSIENT VOLTAGE SURGE SUPPRESSION TYPICAL UNDERGROUND VOLT VARIABLE FREQUENCY DRIVE WATT, WIRE WASTE ACTIVATED SLUDGE WEATHERPROOF TRANSFORMER TRANSMITTER POSITION SWITCH

	UNDERGROUND CONDUIT
_· _· _	BARE COPPER GROUND CONDUCTOR
	EXISTING EXPOSED CONDUIT
	EXISTING UNDERGROUND CONDUIT
	CAPPED UNDERGROUND CONDUIT OR STUBBUP
	NEW ELECTRICAL EQUIPMENT
	DETAIL VIEW OR MATCHING
	FUTURE
	CONDUIT DROP
0	CONDUIT RISE

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	LIGHTING FIXTURE SCHEDULE								
TVDE	MANUFACTURE			SOURCE					
	R	CATALOG NOMBER	DESCRIPTION	LUMENS	CCT	CF			
F1	LITHONIA	FEM L48 6000LM IMAFD WD MVOLT GZ10 50K 80CRI	GASKETED INDUSTRIAL, 48" LINEAR, ACRYLIC, DEEP FROSTED LENS, WIDE DISTRIBUTION, 0-10V DIMMING	6000	5000K	80			
KEYED	NOTES:								
1 - MOL	1 - MOUNT AT 8'-0" A.F.F. UNLESS OTHERWISE NOTED.								

2 - FIXTURE BY LITHONIA, METALUX, DAY-BRITE ORACLE, COLUMBIA, HIGH5LED, HE WILLIAMS OR BEGHELLI. EQUAL DISTRIBUTION, LUMENS, AND SPECIFICATIONS.

						Р	ANEL	L						
								BUS AMPS:	125					
VOLTAGE				VOLTAGE:	: 120/240 V 1Ø 3W				MLO					
ENCLOSURE: CIRCUIT BREAKER TYPE: INTERRUPTING CAPACITY:				ENCLOSURE:	NEMA 3R									
			CIRCUIT	BREAKER TYPE:	BOLT-ON				MOUNTING:	SURFACE				
			NTERRUF	TING CAPACITY:	10 KAIC				COVER TYPE:	DOOR-IN-DOOR				
									LOCATION:	AS INDICATED				
BRANCH CIRCUIT BREAKER CONNECTION		DECODIDITION		PHASE			CONNECTION	E	BRANCH CI	RCUIT BRE	AKER			
NOTES	#	AMP	Ρ.	LOAD (VA)	DESCRIPTION	L1		L2	DESCRIPTION	LOAD (VA)	Ρ.	AMP	#	NOTE
	1	20	1	500	MISSION RTU	2000			WALL HEATER EWH-1	1500	2	20	2	
	3	20	1	38	LIGHTING			1538		1500			4	
	5	20	1	540	RECEPTACLES	540			SPARE		1	20	6	
	7	20	1		SPARE			0	SPARE		1	20	8	
	9	20	1		SPARE	0			SPARE		1	20	10	
	11	20	1		SPARE			0	SPARE		1	20	12	
	13	20	1		SPARE	0			SPARE		1	20	14	
	15	20	1		SPARE			0	SPARE		1	20	16	
	17	20	1		SPARE	0			SPARE		1	20	18	
	19	20	1		SPARE			0	SPARE		1	20	20	
	21	20	1		SPARE	0			SPARE		1	20	22	
	23	20	1		SPARE			0	SPARE		1	20	24	
					PHASE SUBTOTALS (VA)	2540		1538						
					PHASE TOTALS (KVA)	2.5		1.5						
					PHASE TOTALS @ 120V (AMPS)	21.2		12.8						
NOTES:														
G	PROVIDE V	VITH INTEG	RAL SUF	GE PROTECTOR				·		•				
1														
2														
3														

	I/O SCHEDULE											
TYPE	I/O NUMBER	PREFIX	NUMBER DESCRIPTION		NARRATIVE							
DI	DI-01	NS	001	INSTRUSION SWITCH	VALVE VAULT. ALARM ONLY							
DI	DI-02	NS	002	INSTRUSION SWITCH	TANK ROOF HATCH. ALARM ONLY							
DI	DI-03	LS	001	LEVEL SWITCH	FLOOD LEVEL ALARM							
DI	DI-04	YA	001	POWER ALARM	POWER QUALITY ALARM							
AI	AI-01	PT	001	PRESSURE TRANSMITTER	LEVEL VALUE							
AI	AI-02	AI-02 TT		TEMPERATURE TRANSMITTER	TEMPERATURE VALUE. ALAR LOW							
	COMM		001	CELLUALR ANTENNA								
	NOTES											
	1. OPERATIONS AND CONTROLS NARRATIVE.											

CONTROLS CONDUIT SCHEDULE

		2 -#16 TSP
C002	1	
		G: 1 -#14
		4 -#14
C102	1	
		G: 1 -#14
C201	1	ANTENNA WIRE
C301	1	PULLSTRING

ELECTRICAL			
WATTS	VOLTS	NUTES	
38	120-277	1,2	

3/4" 3/4" 1" _____ 1"

POWER CONDUIT SCHEDULE									
P001 CONDUIT AND WIRE BY UTILITY									
P002	1	WIRE BY	WIRE BY UTILITY						
		D.	2 #12						
P100	1	P. N: G:	NONE 1 - #12	3/4"					
		P:	2 - #6						
P101	1	N: G:	1 - #6	1"					

COBABE RANCH EDEN, UTAH

ELECTRICAL SCHEDULES

PROJECT NUMBER

PRINT DATE 6-24-2025 PROJECT MANAGER DESIGNED BY

E-002

#2 B.C. 50'-0" LONG. BOND TO REBAR. ALL REBAR SHALL BE TIED TOGETHER TO CREATE A UFER GROUND

UTILITY TRANSFORMER. COORDINATE TRANSFORMER LOCATION, PRIMARY CONDUIT AND WIRE REQUIREMENTS, AND SECONDARY WIRE REQUIREMENTS WITH UTILITY.

GENERAL NOTE:

A. SEE CIVIL PLANS FOR UTILITY TRANSFORMER AND PRIMARY VOLTAGE SOURCE LOCATIONS.

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DRAWING NOTES

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DRAWING NOTES

 \sim SEE FLANGE GROUND RING CONNECTION DETAIL.

2ight
angle ground bar. bond to tank ground. See detail.

3 TO TANK GROUND. SEE SITE PLAN FOR CONTINUATION.

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E-502

 $\langle 2 \rangle$ #G B.C. SOLID COPPER GROUND.

 $\langle 4
angle$ TO GROUND GRID. SEE ONE-LINE DIAGRAM.

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DRAWING NOTES

> UTILITY TRANSFORMER. PAD / VAULT BY CONTRACTOR. COORDINATE WITH ROCKY MOUNTAIN POWER ALL UTILITY REQUIREMENTS.

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HVAC SYMBOL LEGEND								
	RETURN AIR OR EXHAUST DIRECTION		SUPPLY DUCT (CROSS SECTION)					
	OPPOSED BLADE DAMPER		RETURN AIR OR EXHAUST DUCT (CROSS SECTION)					
ø ø ø ø	PARALLEL BLADE DAMPER		ROUND DUCT (CROSS SECTION)					
O.A.	OUTSIDE AIR	2 4"x12"	DUCT SIZE, INSIDE CLEAR DIMENSION IN INCHES					
S.A.	SUPPLY AIR		DROP OR RISE IN SUPPLY DUCT					
E.A.	EXHAUST AIR	—	SUPPLY AIR OR OUTSIDE AIR DIRECTION					
V.A.	VENTILATION AIR	T	THERMOSTAT					
	NEW CONNECTION	S	WALL SENSOR					

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GENERAL NOTES

I. EQUIPMENT MANUFACTURERS AND MODEL NUMBERS ON DRAWING SCHEDULES ARE PROVIDED FOR REFERENCE ONLY IN ORDER TO AID THE CONTRACTOR ESTABLISH SIZES. DO NOT LIMIT EQUIPMENT SELECTION TO SHOWN MAKES.

CONTROL SEQUENCES

ELECTRICAL WALL HEATER (EH-I):

WHEN THE LOCAL BUILT IN SPACE THERMOSTAT CALLS FOR HEATING THE RESPECTIVE WALL HEATER SHALL BE ENERGIZED TO RUN TO SATISFY THE LOCAL SPACE TEMPERATURE THROUGH ITS FACTORY WIRED CONTROLS. THE UNIT OPERATES UNTIL THE ROOM TEMPERATURE IS SATISFIED AND THEN POWERS OFF. SET BUILT IN THERMOSTAT SET POINT TO 45° (ADJUSTABLE).

kbr PM, DWG\HVAC\SHEET\25069-H-101.dwg, 7/9/2025 1:21:20 \25069\01

ELECTRIC WALL HEATERS								
			EL	ECTRICAL				
SYMBOL	NOMINAL CFM	KW	VOLTS	HERTZ	PHASE	REZNOR MODEL	DUTY	REMARKS
EH-1	EH-I I 60 3 240 60 I EHC3 VALVE VAULT (1) (2) (3)							1 2 3
NOTES:	NOTES:							
U SURFACE MOUNT CONFIGURATION, EXTRUDED ALUMINUM FRONT GRILLE, HIGH-LIMIT TEMPERATURE CONTROL WITH AUTOMATIC RESET.								
2 FURNISH WITH INTEGRAL TAMPER-RESISTANCE THERMOSTAT.								
3 OR EQUAL BY QMARK, KING OR MARKEL.								

DRAWING NOTES

() FIELD COORDINATE EXACT LOCATION OF ELECTRICAL WALL HEATER EH-1. INSTALL APPROXIMATELY 24" A.F.F. TO BOTTOM OF HEATER. INSTALL PER MANIFACTURER'S REQUIREMENTS.

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