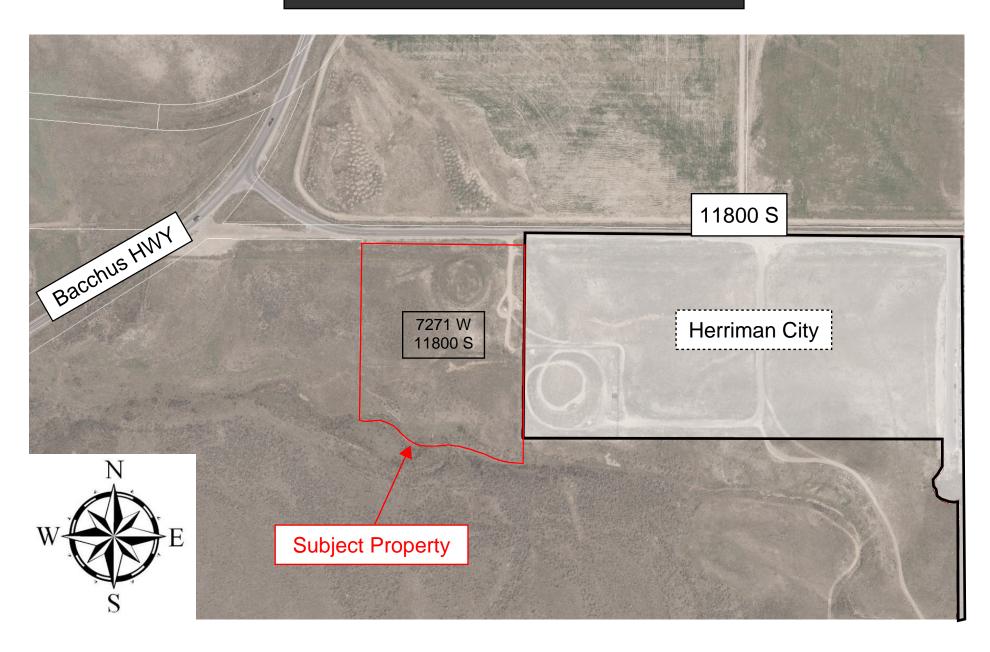
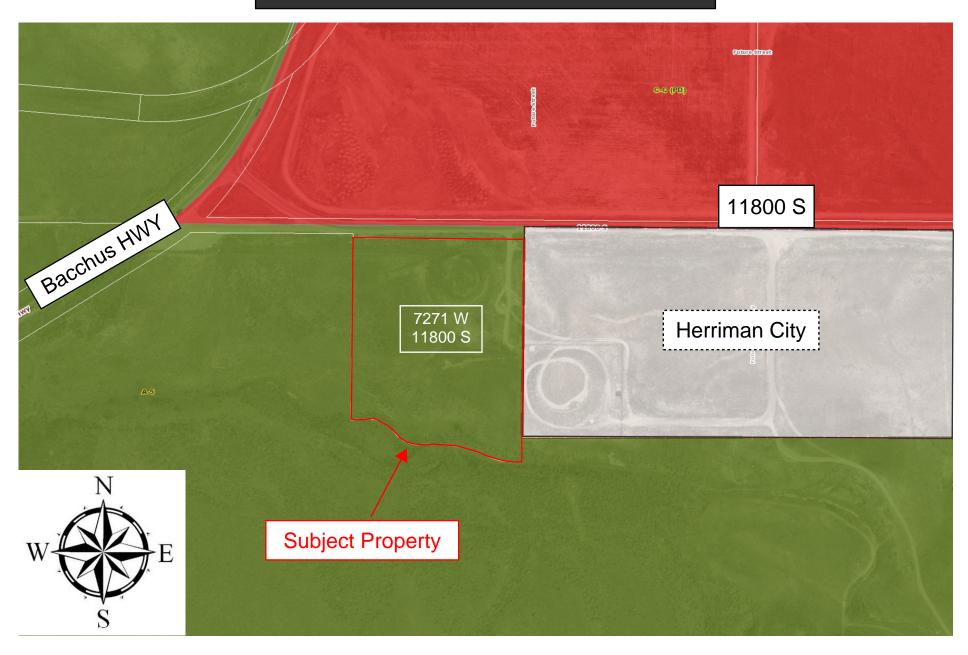
Location Map City of South Jordan Jordan Valley Water Conservancy District

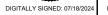


Zoning MapCity of South Jordan Jordan Valley Water Conservancy District



11800 SOUTH ZONE C RESERVOIRS









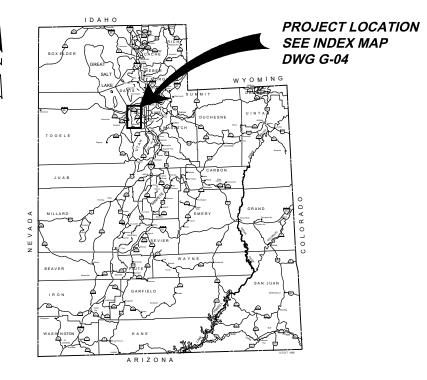
VOLUME 2 OF 3 100% CONFORMED DRAWINGS **JULY 2024**

PROJECT #4276



LOCATION MAP

SITE LOCATED AT: 11800 SOUTH 7185 WEST. SOUTH JORDAN CITY



VICINITY MAP

BOARD OF TRUSTEES

COREY L. RUSHTON MICK M. SUDBURY KAREN D. LANG ZACH JACOB JOHN B. RICHARDSON JOHN H. TAYLOR ANDY PIERUCCI BARBARA TOWNSEND DAWN R. RAMSEY

PROJECT MANAGERS

JORDAN VALLEY WATER CONSERVANCY DISTRICT KEVIN RUBOW, PE 8215 SOUTH 1300 WEST WEST JORDAN, UT 84088

JACOBS ENGINEERING GROUP RYAN WILLEITNER, PE 6440 MILLROCK DR. HOLLADAY, UT 84121

Jacobs

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GENERAL NOTES

15. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH LOCAL EMERGENCY SERVICES TO ENSURE ACCESS TO ALL RESIDENTIAL, COMMERCIAL, AND OCCUPIED FACILITIES AT ALL TIMES.

DRAWING LIST

	<u> </u>						
		SHEET NO.	DWG NO.	SHEET TITLE/DESCRIPTION	SHEET NO.	DWG NO.	SHEET TITLE/DESCRIPTION
4	EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE				OHLLI NO.	DWO NO.	GHEET THEE/BEGGINI HON
1.	EXACT LOCATION, SIZE, TYPE, AND ELEVATION OF ALL UTILITIES PRIOR TO CROSSING UTILITY. THE CONTRACTOR			GENERAL			INSTRUMENTATION AND CONTROLS
	SHALL CONTACT BLUE STAKES AT 1 (800) 662-4111 FOR LOCATING EXISTING UTILITIES. THE CONTACTOR				40	IC-01	SITE PROCESS FLOW DIAGRAM
	SHALL CONTACT BLUE STAKES AT 1 (000) 002-4111 FOR LOCATING EXISTING UTILITIES.	1	G-01	COVER SHEET, VICINITY MAP, AND LOCATION MAP	49 50	IC-01 IC-02	
_	FOR THE PERI ACEMENT AND RECONSTRUCTION OF COURT LICEDAN CITY AND CITY OF HERRIMAN FACILITIES RAMACES	. 2	G-02	GENERAL NOTES AND DRAWING LIST	50 51		SITE PROCESS INSTRUMENTATION DIAGRAM
۷.	FOR THE REPLACEMENT AND RECONSTRUCTION OF SOUTH JORDAN CITY AND CITY OF HERRIMAN FACILITIES DAMAGED	3	G-03	OVERALL SITE MAP FINAL CONDITIONS	51	IC-03	NETWORK / CABLE BLOCK DIAGRAM
	DURING CONSTRUCTION, REFER TO SPECIFICATION SECTION 01 31 13, PROJECT COORDINATION.	4	G-04	SYSTEM HYDRAULICS AND TESTING HGL REQUIREMENT			
_		5	G-05	SURVEY CONTROL			ELECTRICAL
3.	EXCAVATION LIMITS SHOWN IN THE DETAILS ARE GRAPHICAL REPRESENTATIONS ONLY AND DO NOT REPRESENT	6	G-06	ABBREVIATIONS	52	E-01	OVERALL ELECTRICAL SITE PLAN
	ACTUAL EXCAVATION LIMITS OR SAFE TRENCH WORKING CONDITIONS NECESSARY TO COMPLETE THE WORK. THE	7	G-07	STANDARD SYMBOLS AND CIVIL LEGEND	53	E-02	DETAILED ELECTRICAL SITE PLANS
	CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING THE TRENCH LIMITS NEEDED FOR THE WORK AND	8	G-08	MECHANICAL NOTES AND AND PIPING LEGEND	54	E-03	EAST AND WEST RESERVOIR ELECTRICAL / I&C PLANS
	CONFORMANCE WITH THE LOCAL, STATE, AND FEDERAL CODES GOVERNING SHORING, SHEETING, AND BRACING	9	G-09	STRUCTURAL GENERAL NOTES - 1	55	E-04	VALVE VAULT AND DRAINAGE VAULT ELECTRICAL PLANS
	OF EXCAVATIONS AND TRENCHES, AND FOR PROTECTION AND SAFETY OF WORKERS AND OTHER CONSTRUCTION	10	G-10	STRUCTURAL GENERAL NOTES - 2	56	E-05	ONE-LINE DIAGRAM AND PANEL SCHEDULE
	RELATED PERSONNEL. PROVIDE ADDITIONAL SHORING, SHEETING, AND BRACING AS REQUIRED TO PROTECT EXISTING	11	G-11	INSTRUMENTATION AND CONTROLS LEGEND - 1			****
	FACILITIES AND WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.	12	G-12	INSTRUMENTATION AND CONTROLS LEGEND - 2			
		13	G-13	ELECTRICAL LEGEND - 1			STANDARD DETAILS
4.	UNLESS OTHERWISE NOTED, ALL ELEVATIONS FOR NEW CONSTRUCTED PIPELINES ARE PIPE CENTERLINE ELEVATIONS	14	G-14	ELECTRICAL LEGEND - 2	57	SD-01	STANDARD DETAILS
	ELEVATIONS OF EXISTING UTILITIES ARE CALLED OUT TO INVERT ELEVATION FOR GRAVITY UTILITIES (I.E. STORM DRAIN	, 15	G-15	PIPELINE, ROADWAY, AND DRAINAGE ALIGNMENT	58	SD-02	STANDARD DETAILS
	SEWER, ETC.) AND TOP OF PIPE FOR EXISTING PIPELINES OR CONDUITS AND FOR ALL OTHER BURIED UTILITIES.		0 .0	AND COORDINATE TABLES	59	SD-03	STANDARD DETAILS
				7 11 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60	SD-03	STANDARD DETAILS
5.	ALL STATIONING AND DISTANCES SHOWN ON THE DRAWINGS ARE BASED ON HORIZONTAL MEASUREMENTS.				61	SD-04 SD-05	STANDARD DETAILS
				CIVIL	62	SD-05	STANDARD DETAILS
6.	CONTRACTOR SHALL LOCATE AHEAD AND UNCOVER ALL UNDERGROUND UTILITY CROSSINGS A MINIMUM OF	16	C-01	SITE PLAN	63	SD-00	STANDARD DETAILS STANDARD DETAILS
	2 WEEKS IN ADVANCE OF OPERATIONS IN ORDER TO VERIFY CLEARANCE OF EXISTING UTILITIES FROM THE	17	C-02	GENERAL GRADING PLAN	64	SD-07 SD-08	STANDARD DETAILS STANDARD DETAILS
	PROPOSED RESERVOIRS AND PIPING. REPORT ANY CONFLICTS TO THE ENGINEER IMMEDIATELY.	18	C-03	GENERAL GRADING CROSS SECTIONS	65	SD-06 SD-09	STANDARD DETAILS STANDARD DETAILS
		19	C-04	INLET / OUTLET PIPING PLAN AND PROFILE		SD-09 SD-10	
7	CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO STAY WITHIN THE WORK LIMITS SHOWN AND COMPLY	20	C-04 C-05	RESERVOIR OVERFLOW AND DRAIN PIPING PLAN AND PROFILE	66 67	SD-10 SD-11	STANDARD DETAILS
	WITH TRAFFIC CONTROL REQUIREMENTS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, VEHICLES AND	21	C-05	DRAIN PIPING PLAN AND PROFILE			STANDARD DETAILS
	EQUIPMENT, LIMITS OF EXCAVATION, EXCAVATED MATERIAL, AND BACKFILL MATERIAL STORAGE. WHERE		C-06 C-07		68	SD-12	STANDARD DETAILS
	EASEMENTS ARE NOT SHOWN. LIMIT CONSTRUCTION ACTIVITIES TO STAY WITHIN ROAD RIGHTS-OF-WAY AND	22		SITE DRAINAGE AND EROSION CONTROL PLAN	69	SD-13	STANDARD DETAILS
	PERMANENT EASEMENTS UNLESS OTHERWISE SHOWN.	23	C-08	ROADWAY PLAN	70	SD-14	STANDARD DETAILS
	PERMANENT EASEMENTS UNLESS UTHERWISE SHOWN.	24	C-09	ROADWAY PROFILES AND DETAILS	71	SD-15	STANDARD DETAILS
0	CONTRACTOR SHALL ENSURE THAT OPERATION OF EXISTING IRRIGATION. SEWER. DRAINAGE. DOMESTIC WATER.	25	C-10	LANDSCAPING PLAN	72	SD-16	STANDARD DETAILS
ο.	CONTRACTOR SHALL ENSURE THAT OPERATION OF EASTING IRRIGATION, SEVER, DRAINAGE, DOMESTIC WATER, AND OTHER UTILITY SYSTEMS ARE CONTINUOUS THROUGHOUT CONSTRUCTION.	26	C-11	DETENTION POND PLAN	73	SD-17	STANDARD DETAILS
	AND OTHER UTILITY SYSTEMS ARE CONTINUOUS THROUGHOUT CONSTRUCTION.				74	SD-18	STANDARD DETAILS
_	CUREAGE PECTABATION CHALL BE ACCEPTABLE OF CHAMPION THE PRAMPING PECTABE CUREAGE TO EVICTING			DECEDIVOIDO CEDIJOTUDAJ	75	SD-19	STANDARD DETAILS
9.				RESERVOIRS - STRUCTURAL	76	SD-20	STANDARD DETAILS
	CONDITIONS UNLESS OTHERWISE SHOWN.	27	S-01	LEAK DETECTION PLAN - EAST RESERVOIR	77	SD-21	STANDARD DETAILS
40	DISABILATION DISTURDED BY CONSTRUCTION ACTIVITIES CHAIL BE DESIGNED AND MAINTAINED UNIT	28	S-02	FOUNDATION PLAN - EAST RESERVOIR	78	SD-22	STANDARD DETAILS
10.	RIPARIAN VEGETATION DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED AND MAINTAINED UNTIL	29	S-03	ROOF PLAN - EAST RESERVOIR	79	SD-23	STANDARD DETAILS
	ESTABLISHED. THE CONTRACTOR SHALL APPLY VEGETATIVE EROSION CONTROL PER SPECIFICATIONS AND	30	S-04	PARTIAL ROOF PLAN - EAST RESERVOIR			
	DRAWINGS TO AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND NOT LANDSCAPED.	31	S-05	ENLARGED PLANS AND SECTIONS - EAST RESERVOIR			
		32	S-06	RESERVOIR SECTIONS AND DETAILS			
11.	RESERVOIR AND PIPE CONSTRUCTION WHEN NEAR EXISTING UTILITIES, WITHOUT APPROPRIATE	33	S-07	RESERVOIR SECTIONS AND DETAILS			CHLORINE BUILDING DRAWINGS
	CONTRACTOR-PROVIDED SHEETING, SHORING, AND PROTECTION, COULD COLLAPSE INTO THE EXCAVATIONS	34	S-08	RESERVOIR SECTIONS AND DETAILS			VOLUME 3 OF 3
	REQUIRED FOR THE PROJECT WORK. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL NECESSARY DESIGNS	35	S-09	SECTIONS - EAST RESERVOIR			PROVIDED BY SUNRISE ENGINEERING
	(SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER IN THE STATE OF UTAH), FOR SHEETING, SHORING,	36	S-10	LEAK DETECTION PLAN - WEST RESERVOIR			THOUBED BY CONTINCE ENGINEERING
	AND OTHER PROTECTION TO PREVENT EXISTING UTILITIES FROM SHIFTING, LEAKING, COLLAPSING, OR	37	S-11	FOUNDATION PLAN - WEST RESERVOIR			
	OTHERWISE FAILING AS A RESULT OF THIS WORK.	38	S-12	ROOF PLAN - WEST RESERVOIR			
		39	S-13	ENLARGED PLANS AND SECTIONS - WEST RESERVOIR			
12.	ANY DAMAGE WHICH OCCURS TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S WORK SHALL						
	BE PROMPTLY REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE PER PROJECT REQUIREMENTS, AND						
	TO THE SATISFACTION OF THE OWNER OF THE DAMAGED UTILITIES.			STRUCTURAL / MECHANICAL			
		40	SM-01	RESERVOIR VALVE VAULT - ROOF AND PIPING PLANS			
13.	ITEMS DESIGNATED FOR DEMOLITION SHALL BE DEMOLISHED AND PROPERLY DISPOSED OFF SITE BY THE	40	SM-01	RESERVOIR VALVE VAULT - ROOF AND PIPING PLANS RESERVOIR VALVE VAULT - SECTIONS			
	CONTRACTOR.		SM-02 SM-03				
		42 43	SM-03 SM-04	DRAINAGE VAULT - PLAN AND SECTIONS			
14.	CONTRACTOR SHALL REPLACE TO ORIGINAL OR BETTER CONDITION ALL FENCES REMOVED OR DAMAGED BY ANY			DRAINAGE OUTLET AT MIDAS CREEK			
	PROJECT RELATED WORK WITH NEW FENCING AT THE ORIGINAL HORIZONTAL LOCATION UNLESS OTHERWISE	44	SM-05	CHLORINE BUILDING UTILITIES			
	SHOWN ON THE DRAWINGS. NEW FENCING SHALL BE EQUAL TO OR BETTER THAN THE ORIGINAL FENCING.	45 46	SM-06	48" x 30" x 30" REDUCING WYE DETAILS			
		40	SM-07	OVERFLOW JUNCTION AND LEAK DETECTION BOX			

M-01 M-02

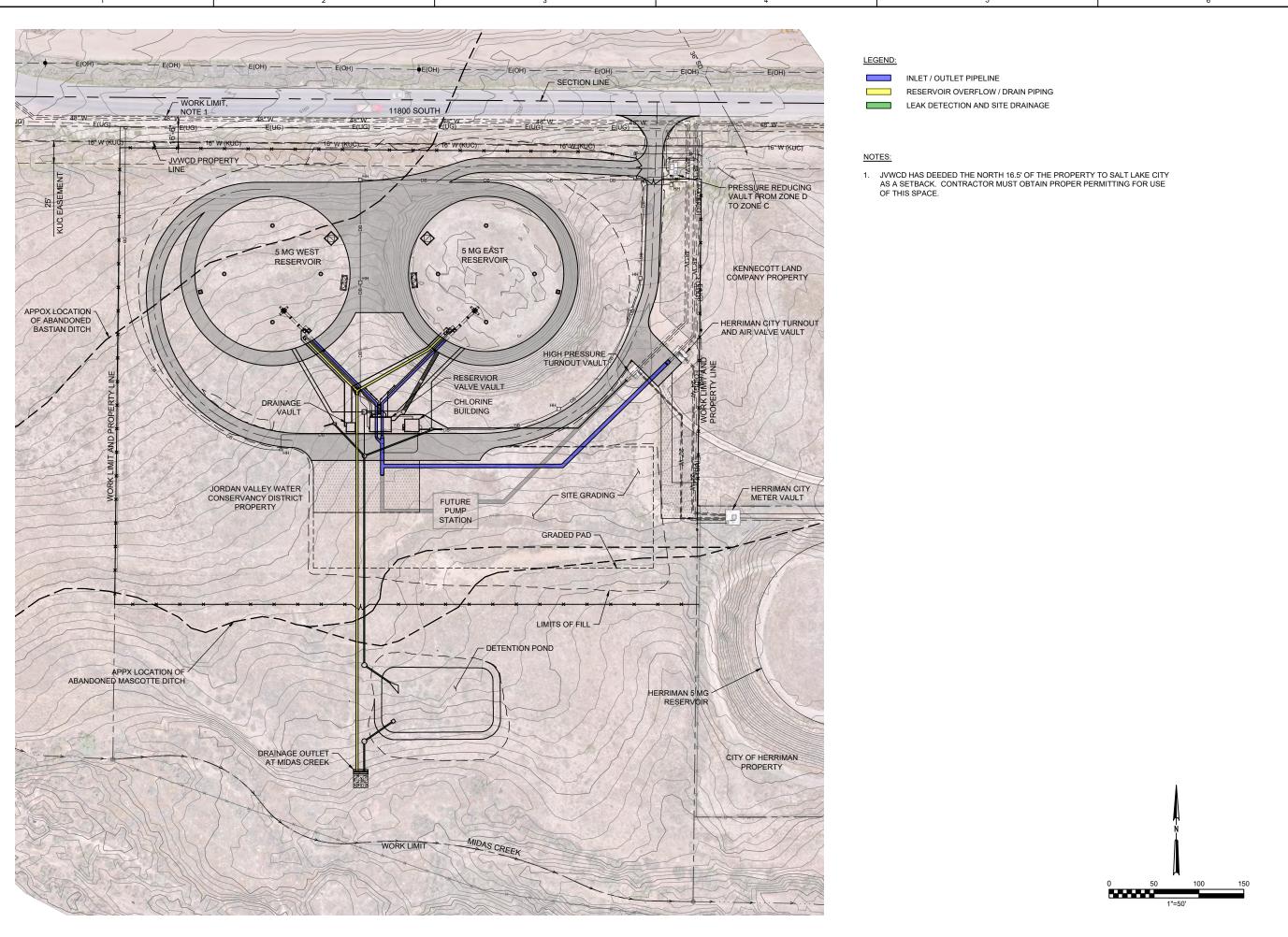
RESERVOIRS - MECHANICAL INTERIOR PIPING - EAST RESERVOIR INTERIOR PIPING - WEST RESERVOIR

Jacobs

JORDAN VALLEY WATER GENERAL NOTES AND DRAWING LIST CALE
NOCH ON
LAWING.

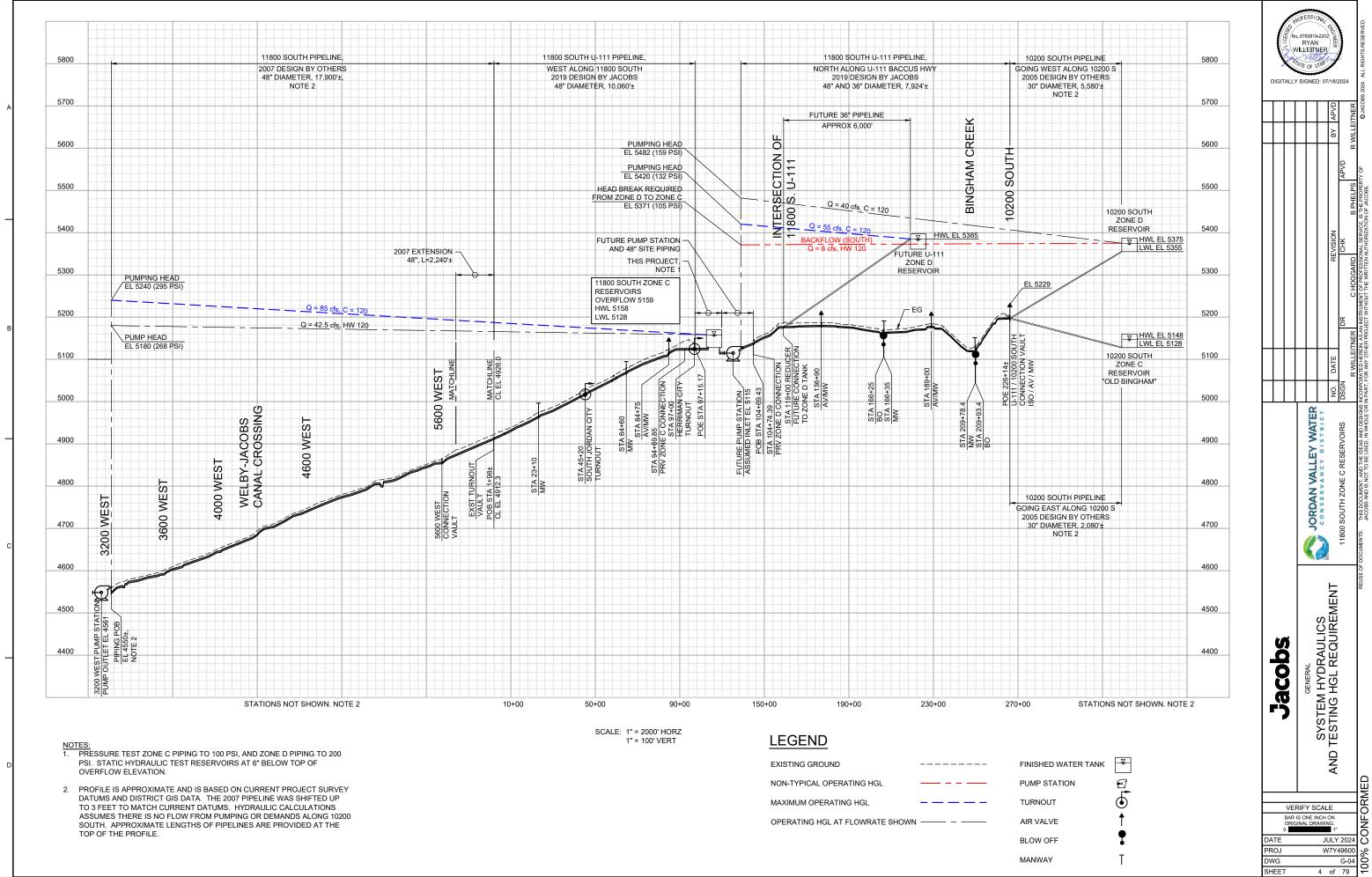
JULY 2024 VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.

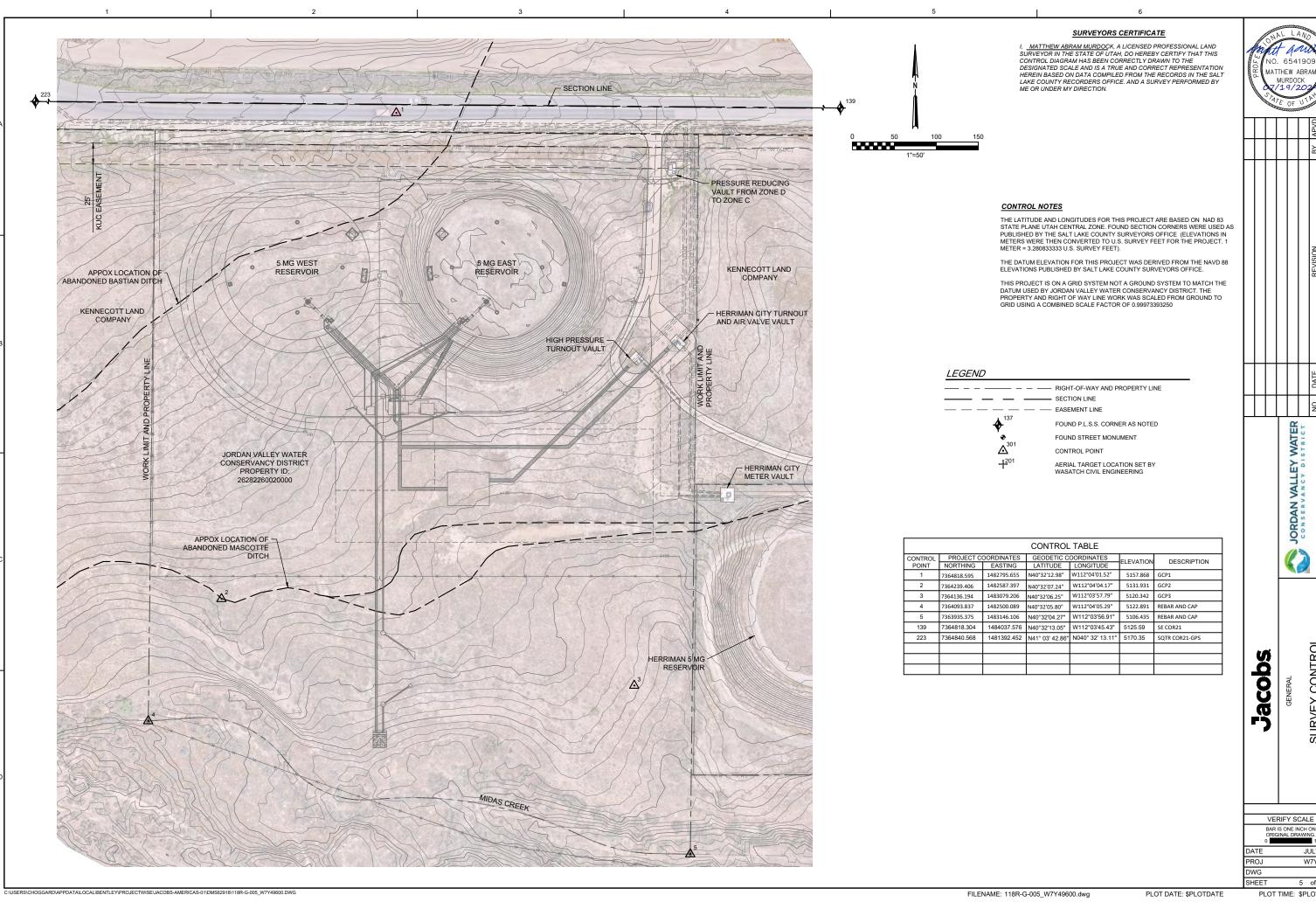
DWG SHEET



RYAN WILLEITNER

DIGITALLY SIGNED: 07/18/2024





WATER

JORDAN VALLEY

SURVEY CONTROL

CALE
NCH ON
LAWING.
JULY 2024

JULY 2024

W7Y49600

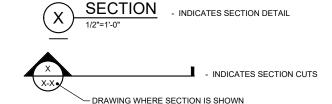
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ABBREVIATIONS

@ A	AT AREA	EXP EXP JT	EXPOSED, EXPANSION EXPANSION JOINT	PCF PE	POUNDS PER CUBIC FOOT PERPETUAL EASEMENT, PLAIN END
AB	ANCHOR BOLT	EXT	EXTERIOR OR EXTENSION	PH	POTHOLE
AC	ASPHALT CONCRETE	F	FAHRENHEIT, FLANGE	PI	POINT OF INTERSECTION,
ACI ADDL	AMERICAN CONCRETE INSTITUTE ADDITIONAL	FDN FG	FOUNDATION FINISH GRADE	PL	PRESSURE IRRIGATION PLATE OR PROPERTY LINE
ADJ	ADJACENT OR ADJUSTABLE	FIG	FIGURE	PLCS	PLACES
AFF	ABOVE FINISH FLOOR	FLG	FLANGE	PLS	PROFESSIONAL LAND SURVEYOR
AFG	ABOVE FINISH GRADE	FO	FIBER OPTIC	PLSS	PUBLIC LAND SURVEY SYSTEM
AGG	AGGREGATE	FOC	FACE OF CONCRETE, FACE OF CURB	POB	POINT OF BEGINNING
AH AISC	AHEAD AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FOW FT	FACE OF WALL FEET OR FOOT	POE PP	POINT OF END POWER POLE
AL, ALUM	ALUMINUM	FWD	FORWARD	PREFAB	PREFABRICATED
ALT	ALTERNATIVE, ALTERNATE	G	GAS	PROP.	PROPERTY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	GA	GAGE OR GAUGE	PRV	PRESSURE REGULATING VALVE
APPROX	APPROXIMATE	GAL	GALLON	PSF	POUNDS PER SQUARE FOOT
APVD	APPROVED BY AMERICAN SOCIETY OF MECHANICAL ENGINEERS	GALV	GALVANIZED GROOVED COLUBIANO	PSI PVC	POUNDS PER SQUARE INCH
ASME ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIAL	GC GE	GROOVED COUPLING GROOVED END	QTY	POLYVINYL CHLORIDE QUANTITY
AWG	AMERICAN WIRE GAGE	GPM	GALLONS PER MINUTE	R, RAD	RADIUS
AWS	AMERICAN WELDING SOCIETY	GRD	GRADE OR GROUND	R/W, ROW, RW	RIGHT-OF-WAY
AWWA	AMERICAN WATER WORKS ASSOCIATION	H	HEIGHT, HORIZONTAL	RCP	REINFORCED CONCRETE PIPE
AV	AIR VALVE	HDPE	HIGH DENSITY POLYETHYLENE	RD RDCR	ROAD, ROOF DRAIN OR ROUND
AVE AVG	AVENUE AVERAGE	HGL HORIZ,	HYDRAULIC GRADE LINE HORIZONTAL	RDCR REF	REDUCER REFER OR REFERENCE
В	BELL, BOTTOM	HORZ	HOMEOWINE	REINF	REINFORCE OR REINFORCING
BFV	BUTTERFLY VALVE	HP	HORSEPOWER	REQD	REQUIRED
BH	BOREHOLE	HPG	HIGH PRESSURE GAS	RES	RESERVOIR
BLD	BLIND	HV	HOSE VALVE	REV	REVISION
BK BMP	BACK BEST MANAGEMENT PRACTICE	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	RJ RR	RESTRAINED JOINT RAILROAD
BO	BLOW OFF ASSEMBLY	HWY	HIGHWAY	RS	RESILIENT SEATED
BOC	BACK OF CURB	HYD	HYDRANT	RT	RIGHT
BOT	BOTTOM	IBC	INTERNATIONAL BUILDING CODE	S	SOUTH, SLOPE
BPV	BOILER AND PRESSURE VESSEL	ID	INSIDE DIAMETER	SCH	SCHEDULE
BV BYP	BALL VALVE BYPASS	IE I.F.	INVERT ELEVATION INSIDE FACE	SD SHT	STANDARD DETAIL, STORM DRAIN SHEET
C	CELSIUS, CHANNEL, COMBINED	I.F. IN	INCH	SIM	SIMILAR
Č, CL	CENTERLINE	IRR	IRRIGATION	SJC	SOUTH JORDAN CITY
CHK	CHECKED BY	INV	INVERT	SP, SPG	SPACING
CIR	CIRCLE	JVWCD	JORDAN VALLEY WATER	SPEC	SPECIFICATION
CJ CJP	CONSTRUCTION JOINT OR CONTROL JOINT COMPLETE JOINT PENETRATION	KUC	CONSERVANCY DISTRICT KENNECOTT UTAH COPPER	SQ SQ FT	SQUARE SQUARE FOOT
CLR	CLEAR, CLEARANCE	I	LITER, LENGTH OR ANGLE	SS	SANITARY SEWER
CLSM	CONTROLLED LOW STRENGTH MATERIAL	LB, LBS	POUND(S)	SST	STAINLESS OR STAINLESS STEEL
COMB	COMBINED	LF	LINEAR FÉET	ST	STREET
CONC	CONCRETE	LG	LONG	STA	STATION
CONN CONSTR	CONNECTION CONSTRUCTION	LN LONGIT	LANE LONGITUDINAL	STD STL	STANDARD STEEL
CONSTR	CONTRUCTION CONTINUOUS OR CONTINUATION	MAG	ELECTROMAGNETIC	SW	SOUTHWEST
COORD	COORDINATE	MAN	MANUAL	Ť	TOP
COR	CORNER	MAT'L	MATERIAL	t	THICKNESS
CP	CATHODIC PROTECTION, CONTROL POINT	MAX	MAXIMUM	T&B	TOP AND BOTTOM
CPLG	COUPLING	MCC	MOTOR CONTROL CENTER	TARG, TRG	TARGET
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	MECH MFR	MECHANICAL MANUFACTURER	TBC TCJ	TOP BACK OF CURB TEMPERATURE CONTROL JOINT
CT	CATHODIC TEST	MG	MILLION GALLONS	TEL, T	TELEPHONE
CTF	CUT TO FIT	MGD	MILLION GALLONS PER DAY	TEMP	TEMPERATURE
CTR, CTRD	CENTER, CENTERED	MH	MANHOLE	TF	TOP FACE
CTV CU	CABLE TELEVISION	MILS	1/1,000 INCH	THK	THICK OR THICKNESS
CU FT	CUBIC CUBIC FOOT	MIN MJ	MINIMUM OR MINUTE MECHANICAL JOINT	THRD TV	THREAD TELEVISION
CU YD, CY	CUBIC YARD	MK	MARK	TYP	TYPICAL
CYL	CYLINDER	MOD	MODEL OR MODIFY	UDOT	UTAH DEPARTMENT OF
DEG	DEGREE	MON	MONUMENT		TRANSPORTATION
DET	DETAIL	MSP	MANUAL OF STANDARD PRACTICE	UG	UNDERGROUND
DIA DIAG	DIAMETER DIAGONAL	MW N	MANWAY NORTH, NORTHING	UNK UNO	UNKNOWN UNLESS NOTED OTHERWISE
DIP	DUCTILE IRON PIPE	N/A	NOT APPLICABLE	US	UNITED STATES
DIST	DISTANCE	NAD	NORTH AMERICAN DATUM	UT	ULTRASONIC TESTING
DIV	DIVISION	NAVD	NORTH AMERICAN VERTICAL DATUM	UTA	UTAH TRANSIT AUTHORITY
DN	DOWN, DECANT	NBS	NATIONAL BUREAU OF STANDARDS	V, VERT	VERTICAL
DR DSGN	DOOR, DRAIN, DRIVE, DRAWN BY DESIGNED BY	NC NEC	NORMALLY CLOSED NATIONAL ELECTRICAL CODE	VC VPI	VERTICAL CURVE VERTICAL POINT OF INTERSECTION
DWG	DRAWING	NEMA	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL	W	WATER. WEST OR WIDTH
Ĕ	EAST, ELECTRIC UTILITY, EASTING	TTE IVID (MANUFACTURERS ASSOCIATION	W/	WITH
EA	EACH	NIC	NOT IN CONTRACT	W/O	WITHOUT
ECC	ECCENTRIC	NO	NORMALLY OPEN OR NUMBER	WS_	WATER SURFACE, WATER STOP
EF EC	EACH FACE OR EXHAUST FAN	NPS	NOMINAL PIPE SIZE	WSE	WATER SURFACE ELEVATION
EG EL	EXISTING GRADE ELEVATION	NPT NTS	NATIONAL PIPE THREAD NOT TO SCALE	WSP WT	WELDED STEEL PIPE WEIGHT
ELB	ELBOW	NW	NORTHWEST	WY	WAY
ELEC	ELECTRIC OR ELECTRICAL	OC	ON CENTER	XS	EXTRA STRONG
ENGR	ENGINEER	OD	OUTSIDE DIAMETER OR OVERFLOW DRAIN	XXS	DOUBLE EXTRA STRONG
EOA	EDGE OF ASPHALT	OH	OVERHEAD	YD	YARD
EQ	EQUAL EQUATION	OPNG OSHA	OPENING OCCUPATIONAL SAFETY AND HEALTH		
FON		USHA	OCCUPATIONAL SAFETT AND REALTH		
EQN FOUIV			ADMINISTRATION		
EQN EQUIV EW	EQUIVALENT EACH WAY	PC	ADMINISTRATION POINT OF CURVE,		

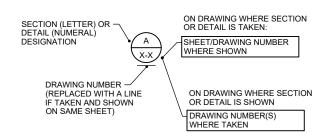


STANDARD SYMBOLS

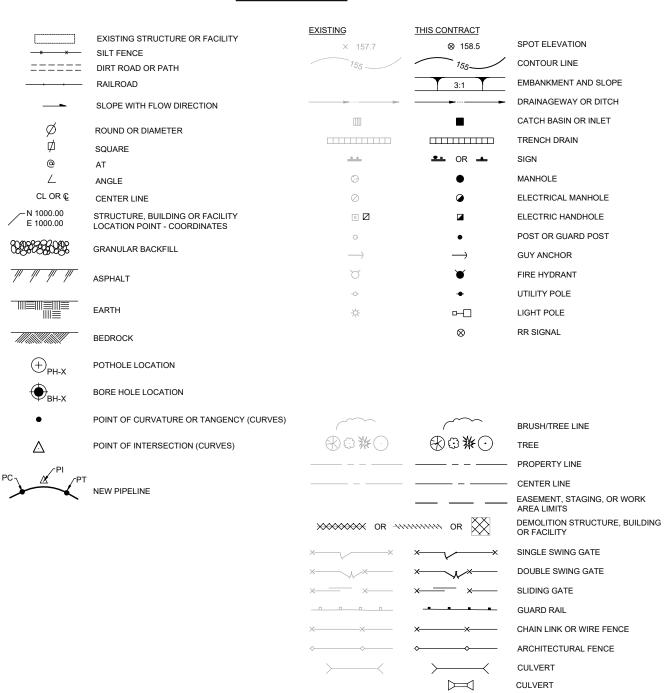


STANDARD DETAIL -DESIGNATION (NUMERAL) 15000 SHOWN ON STANDARD DETAIL DRAWINGS (SD)

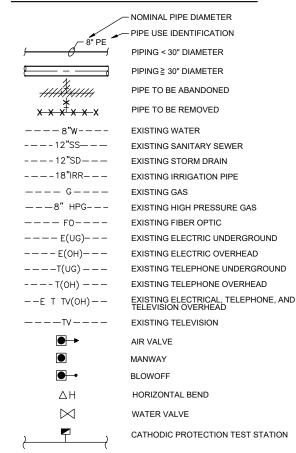
DESIGN DETAIL DESIGNATION



CIVIL LEGEND



PIPING LEGEND AND SYMBOLS



IN GENERAL ELEMENTS SHOWN WITH GREY TONE OR DASHED LINES, REPRESENT EXISTING FACILITIES OR FEATURES.



- 1. IN GENERAL ELEMENTS SHOWN WITH GREY TONE OR DASHED LINES, REPRESENT EXISTING FACILITIES OR FEATURES
- 2. SCREENED BACKGROUNDS ON DRAWINGS CAN REPRESENT FACILITIES TO BE CONSTRUCTED UNDER THIS CONTRACT WHICH, IF DRAWN IN SOLID LINES WOULD OBSCURE THE PARTICULAR DETAILS BEING SHOWN. CONSULT THE ENGINEER FOR SCREENING THAT IS NOT SELF EXPLANATORY.

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BAR IS ONE INCH ON

PROJ

DWG SHEET

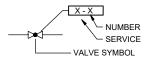
MECHANICAL LEGEND AND NOTES

GENERAL PIPING NOTES

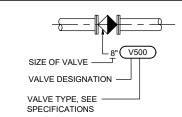
- 1. LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS.
- SIZE OF FITTINGS SHOWN ON DRAWINGS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.
- 3. LOCATION AND NUMBER OF PIPE HANGERS AND PIPE SUPPORTS SHOWN IS ONLY APPROXIMATE. CONTRACTOR SHALL DESIGN SUPPORTS AS SPECIFIED.
- 4. ALL JOINTS SHALL BE WATERTIGHT. WALL PIPES SHALL BE USED WHEREVER PIPING PASSES FROM A STRUCTURE TO BACKFILL, UNLESS OTHERWISE NOTED.
- 5. ALL FLEXIBLE CONNECTORS AND COUPLING ADAPTERS SHALL BE PROVIDED WITH THRUST TIES AND ANCHORS, UNLESS OTHERWISE NOTED. THRUST PROTECTION SHALL BE ADEQUATE FOR TEST PRESSURES SPECIFIED.
- 6. SYMBOLS, LEGENDS, AND PIPE USE IDENTIFICATIONS SHOWN SHALL BE FOLLOWED THROUGHOUT THE DRAWINGS, WHEREVER APPLICABLE. NOT ALL OF THE VARIOUS PIPING COMPONENTS ARE NECESSARILY USED IN THE PROJECT
- 7. NUMBER AND LOCATION OF UNIONS SHOWN ON DRAWINGS IS ONLY APPROXIMATE. PROVIDE ADDITIONAL UNIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND MECHANICAL
- 8. WHERE A GROOVED END COUPLING IS SHOWN, IT SHALL BE THE RIGID JOINT TYPE, UNLESS, OTHERWISE SPECIFIED. WHERE A FLANGED COUPLING ADAPTER IS SHOWN, A STANDARD FLANGE SHALL BE JOINED TO THE COUPLING ADAPTER. WAX TAPE COAT ALL BURIED FITTINGS, FLANGES, VALVES, ECT. PER SPECIFICATIONS.

VALVE DESIGNATIONS

CONTROL VALVES



MANUAL VALVES AND CHECK VALVES

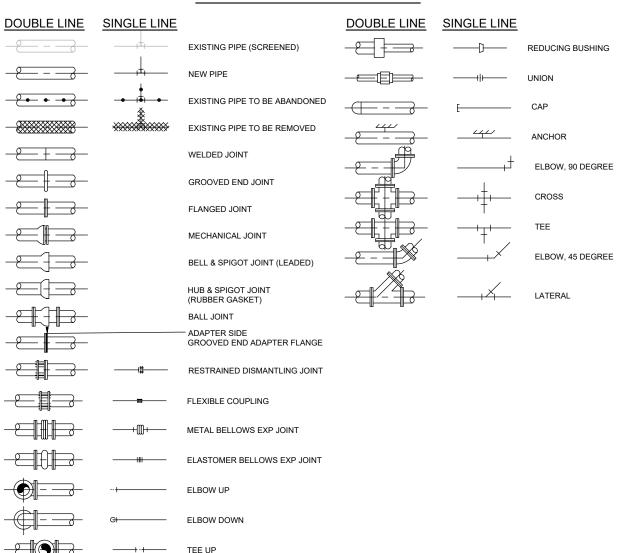


PIPE FITTING AND PATTERNS

PLAIN END SPIGOT GROOVED END FLANGE MECHANICAL JOINT



PIPE AND FITTING SYMBOLS



TEE DOWN

LATERAL UP

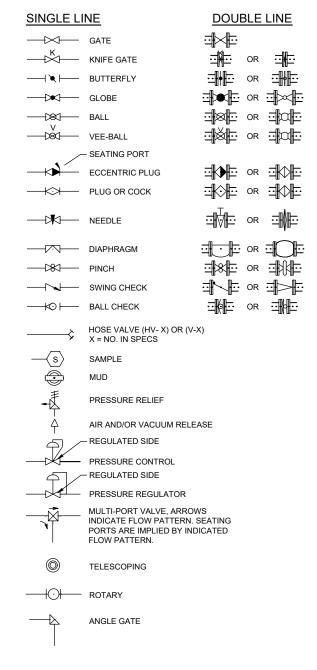
LATERAL DOWN

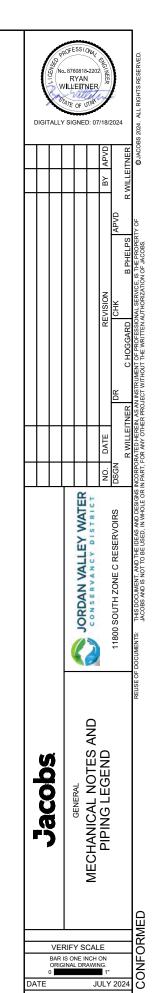
CONCENTRIC REDUCER

ECCENTRIC REDUCER

- ONLY FLANGED END CONNECTIONS ARE SHOWN HERE FOR DOUBLE LINE FITTINGS.
 FITTINGS WITH OTHER END PATTERNS ARE SHOWN SIMILARLY ON THE CONSTRUCTION. DRAWINGS. ALSO SEE PIPING SPECIFICATIONS.
- 2. SYMBOLS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS FOR SPECIFIC END CONNECTIONS FOR SINGLE LINE PIPE AND FITTINGS.
- 3. EXISTING PIPE AND EQUIPMENT IS SHOWN DASHED AND/OR SCREENED AND IS NOTED AS EXISTING. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY-LINED.

VALVE SYMBOLS





W7Y49600 😞

PROJ

WG

= 46 PSF

= 42 PSF

= 20 PSF = 10 PSF

= 100 PSF = 100 PSF

= 110 MPH

= 85 MPH

= C = +/- 0.18

= 1.0

= 1.02q

= 0.33g

= 0.80q

= 0.54g = D = III

= D

STRUCTURES HAVE BEEN ANALYZED USING THE EQUIVALENT LATERAL FORCE PROCEDURES OF ASCE 7.

SEE PLANS FOR STRUCTURE SPECIFIC LOADS

EQUIVALENT UNDRAINED FLUID PRESSURES (GRANULAR FILL BELOW GW):

= 1.25

6000 PSE

55 PCF

90 PCF

310 PCF

0.45 400 PSI/IN

120 PCF

30 IN

GENERAL INFORMATION

VERIFY FINAL OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH OTHER DISCIPLINE DRAWINGS PRIOR

FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION OF EQUIPMENT PADS, SEE OTHER DISCIPLINE

DO NOT CUT OR MODIFY STRUCTURAL MEMBERS FOR PIPES, DUCTS, ETC, UNLESS SPECIFICALLY DETAILED

ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK. NOR RESPONSIBLE FOR THE COMPREHENSIVE OR

VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT

DRAWINGS. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO PLACING SLABS, WALLS AND FOUNDATIONS.

FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 "ABBREVIATIONS AND ACRONYMS: PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).

DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.

480 PCF

NONE ENCOUNTERED

2 FT OF SOIL WEIGHT

60 PCF

300 PCF

GRANULAR FILL

= MWFRS DIRECTIONAL PROCEDURE

= 0.9

DEAD LOADS: SELF WEIGH ROOF LOADS

FLOOR LIVE LOADS

WIND LOADS

SEISMIC LOADS:

RISK CATEGORY

SPECIAL LOADS:

10.

SEISMIC DESIGN CATEGORY

IMPORTANCE FACTOR, I

RESERVOIRS

AT REST

PASSIVE

AT REST

13. FROST DEPTH:

VERTICAL SURCHARGE

NATIVE SOIL UNIT WEIGHT

GROUND SNOW LOAD, Pg

THERMAL FACTOR, Ct

IMPORTANCE FACTOR. MINIMUM FLAT ROOF SNOW LOAD, Pf

WIND SPEED. Vasd

IMPORTANCE FACTOR. Iw

SNOW EXPOSURE FACTOR Ce

COLLATERAL DEAD LOAD (SOLAR READY)

CORRIDORS, EXITS, STAIRS
WALKWAYS AND ELEVATED PLATFORMS

ASCE 7 METHOD
BASIC WIND SPEED (3-SECOND GUST)

MAPPED SPECTRAL RESPONSE ACCELERATIONS

DESIGN SPECTRAL RESPONSE ACCELERATIONS

LATERAL FORCE-RESISTING SYSTEMS: SEE FACILITY DRAWINGS.

NET ALLOWABLE SOIL BEARING PRESSURES:

GROUND WATER (GW) ELEVATION:

COEFFICIENT OF FRICTION: MODULUS OF SUBGRADE REACTION

HYDRAULIC LOADS: SEE PLANS FOR STRUCTURE SPECIFIC LOADS

EQUIVALENT DRAINED FLUID PRESSURES (ABOVE GW):

WHERE H IS HEIGHT OF SOIL ADJACENT TO THE WALL

COORDINATE PIPING OPENINGS WITH OTHER DISCIPLINE DRAWINGS

SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE

EXPOSURE CATEGORY
INTERNAL PRESSURE COEFFICIENT, GCpi

INSPECTION AND TESTING

- SPECIAL INSPECTION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR INSPECTIONS REQUIRED BY THE BUILDING OFFICIAL. THE CONTRACTOR SHALL SCHEDULE BOTH INSPECTIONS.
- SPECIFIED CONCRETE AND MASONRY AND OTHER MATERIAL TESTING RELATED TO SPECIAL INSPECTION DURING CONSTRUCTION WILL BE OWNER FURNISHED
- SPECIFIED LABORATORY TEST MIXES AND SIMILAR TEST RESULTS TO VERIFY MATERIAL QUALITY AND CONFORMANCE TO SPECIFICATIONS, AND SUBMITTED FOR REVIEW PRIOR TO ACCEPTANCE FOR USE ON THE PROJECT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SPECIAL INSPECTION, TESTING AND OBSERVATION (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH IBC SECTIONS 110 AND 1704 AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS

FOUNDATIONS

- FOR SOILS INFORMATION, REFER TO GEOTECHNICAL ENGINEERING REPORT BY TERRACON DATED NOVEMBER 8, 2023
- EXCAVATIONS SHALL BE SHORED TO PREVENT SUBSIDENCE AND DAMAGE TO ADJACENT EXISTING STRUCTURES,
- RESERVOIR FOUNDATION SLABS, SLABS-ON-GRADE AND WALL AND COLUMN FOUNDATIONS SHALL BEAR ON MATERIALS AS SHOWN ON THE DRAWINGS.
- FOUNDATION BEARING SURFACES SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FORMWORK OR REINFORCING STEEL. THE OBSERVATION SHALL VERIFY IF THE ACTUAL EXPOSED SUBGRADE IS AS ANTICIPATED BY THE SITE SPECIFIC BORINGS, TESTING, AND DATA REPORTS.
- NO BACKFILL SHALL BE PLACED BEHIND WALLS UNTIL THE WALL'S CONCRETE HAS ATTAINED 100 PERCENT AND TOP SUPPORTING SLAB'S CONCRETE HAS ATTAINED 80 PERCENT OF THEIR SPECIFIED 28 DAY COMPRESSIVE STRENGTH, OR UNTIL TOP-OF-WALL FRAMING SYSTEMS, INCLUDING STEEL OR WOOD DIAPHRAGMS, HAVE BEEN COMPLETED.
- NO BACKFILL SHALL BE PLACED BEHIND CANTILEVERED, FREE TOP WALLS UNTIL THE CONCRETE HAS ATTAINED 100 PERCENT OF ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
- USE OF EXPLOSIVES IS ONLY ALLOWED WITH WRITTEN PERMISSION FROM ENGINEER.

FORMWORK, SHORING, AND BRACING

- STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN
- TEMPORARY SHORING SHALL REMAIN IN PLACE UNTIL ELEVATED CONCRETE FLOOR OR SLABS HAVE REACHED 80
- "BURY" BARS OR "CARRIER" BARS ARE NOT ALLOWED FOR THE BOTTOM MATS OF REINFORCING IN ALL ELEVATED SLABS AND ARE NOT ALLOWED FOR THE TOP MATS OF REINFORCING IN ELEVATED SLABS LESS THAN 12 INCHES THICK.

CONCRETE REINFORCING

REINFORCING STEEL:

ASTM A615, GRADE 60 ASTM A706, GRADE 60 (WELDING IS ONLY PERMITTED WITH WRITTEN PERMISSION FROM ENGINEER)

- FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1 "MANUAL OF STANDARD PRACTICE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- CONCRETE COVER FOR REINFORCING, UNLESS SHOWN OTHERWISE, SHALL BE WHEN CAST AGAINST EARTH: 3"

 CONCRETE EXPOSED TO EARTH, LIQUID, WASHDOWN, OR WEATHER: WALLS AND SLABS

 2" BEAM STIRRUPS AND COLUMN TIES BEAM AND COLUMN PRIMARY REINFORCING
- REFER TO WALL CORNER AND WALL INTERSECTION REINFORCING DETAIL 0330-003. WALL CORNER REINFORCING SIZES AND SPACINGS SHALL BE AS SHOWN ON THE DRAWINGS AND REFERENCED TO THIS DETAIL. TYPICAL HORIZONTAL WALL REINFORCING SHALL LAP WITH THE CORNER HORIZONTAL REINFORCING.
- 90 DEGREE BENDS, UNLESS OTHERWISE SHOWN, SHALL BE ACI 318 STANDARD HOOKS.
- WALL CORNER AND WALL INTERSECTION REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS AND THROUGH COLUMNS OR PILASTERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS, AS INDICATED IN DETAIL 0330-003.
- WALL FOOTING CORNER AND INTERSECTION REINFORCEMENT BARS SHALL BE EXTENDED INTO CONNECTING FOOTINGS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING FOOTING. OUTSIDE FACE WALL FOOTING REINFORCEMENT SHALL BE LAPPED WITH CORNER BARS. ALL WALL FOOTING REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMNS OR PILASTERS FOOTINGS
- LAP VERTICAL WALL BARS WITH DOWELS FROM BASE SLABS AND EXTEND INTO TOP FACE OF ROOF SLABS AND LAP WITH TOP SLAB REINFORCEMENT. PROVIDE A MINIMUM OF FOUR FULL HEIGHT VERTICAL BARS WITH MATCHING DOWELS AT WALL ENDS, CORNERS AND INTERSECTIONS WITH SIZE TO MATCH TYPICAL VERTICAL REINFORCING STEEL SHOWN OR REQUIRED BY NOTES ABOVE.
- LOCATE ELEVATED SLAB AND BEAM TOP BAR SPLICES AT MIDSPAN AND BOTTOM BAR SPLICES AT SUPPORTS.
- REINFORCING STEEL FOR FOOTINGS AND SLABS ON GRADE SHALL BE ADEQUATELY SUPPORTED ON BAR SUPPORTS WITH SPACERS TO KEEP REINFORCING ABOVE THE PREPARED GRADE. LIFTING REINFORCING OFF GRADE DURING CONCRETE PLACEMENT IS NOT PERMITTED.
- REFER TO OPENING REINFORCING DETAIL 0330-001
- REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:

CONCRET	TE DESIGN ST	RENGTH	= 4,500 I	PSI MIN A	AT 28 DA	YS³ GF	RADE 60	REINFOF	RCING ST	EEL
BAR SIZE		#3	#4	#5	#6	#7	#8	#9	#10	#11
LAP SPLICE LE	NGTH									
SPACING = 3"	TOP BAR 2	1'-4"	1'-8"	2'-1"	3'-0"	5'-2"	6'-8"	8'-6"	10'-10"	13'-4"
SFACING - 3	OTHER BAR	1'-4"	1'-4"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
SPACING = 4"	TOP BAR ²	1'-4"	1'-8"	2'-0"	2'-5"	3'-10"	5'-0"	6'-5"	8'-1"	10'-0"
SFACING - 4	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
SPACING ≥ 6"	TOP BAR ²	1'-4"	1'-8"	2'-0"	2'-5"	3'-6"	4'-0"	5'-0"	6'-2"	7'-5"
SFACING 2 0	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
EMBEDMENT L	.ENGTH									
SPACING = 3"	TOP BAR ²	1'-0"	1'-3"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
SFACING - 3	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-10"	3'-1"	4'-0"	5'-1"	6'-5"	7'-11"
SPACING = 4"	TOP BAR ²	1'-0"	1'-3"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
SFACING - 4	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-4"	3'-0"	3'-10"	4'-10"	5'-11"
SPACING ≥ 6"	TOP BAR 2	1'-0"	1'-3"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
SFACING 2 0	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-1"	2'-5"	3'-0"	3'-8"	4'-5"

LAP LENGTHS ARE BASED ON MINIMUM CONCRETE COVER OF 2". LONGER LENGTHS ARE REQUIRED FOR CONCRETE COVER LESS THAN 2".
TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN

12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.
WHERE 3000 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 16 PERCENT. WHERE

3500 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 7 PERCENT

CAST IN PLACE CONCRETE

28-DAY COMPRESSIVE STRENGTHS (TO MEET STRUCTURAL STRENGTH REQUIREMENTS) HYDRAULIC STRUCTURES: WALL SLURRY MIXTURE 4500 PSI SAME AS WALL CONCRETE PRESTRESSED TANK CORE WALL 5500 PSI CLIRBS AND SIDEWALKS

DUCT BANKS AND PIPE ENCASEMENTS NOT INTEGRAL WITH FOUNDATIONS: 3500 PSI

DESIGN STRENGTHS ARE SAME AS 28-DAY COMPRESSIVE STRENGTHS

- CONTINUOUS WATERSTOP AS SPECIFIED SHALL BE INSTALLED IN CONSTRUCTION JOINTS OF HYDRAULIC STRUCTURES, CHANNELS, AND BELOW GRADE STRUCTURES, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
- CONSTRUCTION JOINTS INDICATED ARE SUGGESTED LOCATIONS. CONTRACTOR MAY REVISE LOCATION OF JOINTS. SUBJECT TO SPECIFIED REQUIREMENTS. LAYOUT SHOWING ALL CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED FOR REVIEW BY ENGINEER
- ROUGHEN AND CLEAN CONSTRUCTION JOINTS IN WALLS AND SLABS AS SPECIFIED PRIOR TO PLACING ADJACENT
- COORDINATE PLACEMENT OF OPENINGS, PIPE PENETRATIONS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND INSERTS PRIOR TO PLACEMENT OF CONCRETE.
- NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.
- EMBEDDED CONDUIT IS NOT PERMITTED UNLESS SPECIFICALLY INDICATED IN DRAWINGS.
- PATCH FORM TIE HOLES IN ACCORDANCE WITH DETAILS 0310-051 AND/OR 0310-052

WELDING

- WELDS SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS) D1.1, STRUCTURAL WELDING CODE STEEL D1.2, STRUCTURAL WELDING CODE ALUMINUM D1.3. STRUCTURAL WELDING CODE SHEET STEEL
 - D1.4 STRUCTURAL WELDING CODE REINFORCING STEEL D1.6, STRUCTURAL WELDING CODE STAINLESS STEEL
- REPAIR WELDS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1 SECTION 5.26.
- USE INTERMITTENT WELDS AT FIELD WELDS OF EMBED PLATES AND ANGLES TO AVOID SPALLING OR CRACKING
- BUTT JOINT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS INDICATED OTHERWISE

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WATER

VALLEY JORDAN

NOTES Jacobs GENERAL

STRUCTURAL

VERIFY SCALE JULY 2024 BAR IS ONE INCH ON W7Y49600 😞 PROJ G-09 -^ WG 9 of 79 HEET

FILENAME: 118R-G-009 W7Y49600.dwg

PLOT DATE: \$PLOTDATE

PLOT TIME: \$PLOTTIME

STRUCTURAL STEEL AND METAL FABRICATIONS

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS: W-SHAPES A992
MISCELLANEOUS SHAPES AND PLATES A572, GRADE 50 A572, GRADE 50 A36 A572, GRADE 50 A500, GRADE C A53, GRADE B MISCELLAND SHAPES AND PLATES
ANGLES AND SHAPES
MOMENT CONNECTION CONTINUITY PLATES
HOLLOW STRUCTURAL SECTIONS (HSS)

STAINLESS STEEL SHAPES

ALUMINUM SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

STRUCTURAL SHAPES PLATES

STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, CURRENT EDITION, AND CURRENT OSHA STANDARDS.

FASTENERS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING ASTM STANDARDS EXCEPT

F3125 GRADE F1852

WHERE SPECIFICALLY INDICATED OTHERWISE: UNLESS SHOWN OTHERWISE ANCHOR BOLTS (AB) STAINLESS STEEL F593, AISI TYPE 316, CONDITION CW

STEEL OR GALVANIZED STEEL F1554, GR 55 / A153

MACHINE BOLTS (MB)
STEEL
STAINLESS STEEL

F593, AISI TYPE 316, CONDITION CW

GALVANIZED STEEL ALUMINUM A307 / A153 F468, ALLOY 2024-T4

- ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT.
- NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL IS PERMITTED WITHOUT THE APPROVAL OF THE

DEFERRED SUBMITTALS

- DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE PREPARED BY THE CONTRACTOR TO BE SUBMITTED TO THE PERMITTING AGENCY FOR ACCEPTANCE PRIOR TO INSTALLATION OF THAT PORTION OF THE WORK OR ARE REQUIRED TO BE SUBMITTED FOR REVIEW ONLY BY THE ENGINEER.
- WHERE DEFERRED SUBMITTALS INCLUDE ADDITIONAL MATERIALS, INSTALLATION, ANCHORAGE, OR CERTIFICATION OF COMPONENTS THAT REQUIRE SPECIAL INSPECTION AND/OR STRUCTURAL OBSERVATION TO MEET CODE REQUIREMENTS, THE DEFERRED SUBMITTAL SHALL INCLUDE SPECIFIC LINE ITEMS TO BE ADDED TO THE APPROPRIATE TABLES IN THE PROJECT'S STATEMENT OF SPECIAL INSPECTIONS PLAN IF THEY ARE NOT
- THE FOLLOWING IS A LIST OF DEFERRED SUBMITTALS PER IBC SECTION 107.3.4.1 OF 2021 IBC THAT ARE EXPECTED TO CONTAIN STRUCTURAL CALCULATIONS OR SAFETY RELATED SYSTEM INFORMATION FOR REVIEW TO MEET BUILDING PERMITTING REQUIREMENTS FOR DESIGNED SYSTEMS. PRIOR TO INSTALLATION OF THE INDICATED STRUCTURAL ELEMENT, EQUIPMENT, DISTRIBUTION SYSTEM, OR COMPONENT OR ITS ANCHORAGE, THE CONTRACTOR SHALL SUBMIT THE REQUIRED CALCULATIONS AND SUPPORTING DATA AND DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER. ADDITIONALLY, ACCEPTANCE INDICATED ON THE ENGINEER'S COMMENT FORM, ALONG WITH THE COMPLETED, FINAL SUBMITTAL SHALL THEN BE SUBMITTED BY THE CONTRACTOR TO THE PERMITTING AGENCY AND APPROVED PRIOR TO INSTALLATION OF THESE ITEMS.

SPECIFICATION SECTION	CODE REQUIRED DEFERRED SUBMITTALS FOR REVIEW BY PERMITTING AGENCY
01 88 15	ANCHORAGE AND BRACING
05 52 16	ALUMINUM RAILINGS
33 16 13.14	PRESTRESSED TANK VERTICAL POST-TENSIONING
40 05 15	PIPING SUPPORT SYSTEMS
OTHER	ANY EQUIPMENT OR COMPONENT IN WHICH A TECHNICAL SPECIFICATION REQUIRES SUBMITTAL OF EQUIPMENT OR ANCHORAGE SYSTEM CALCULATIONS

CALE OO LAWING.

JULY 2024 VERIFY SCALE BAR IS ONE INCH ON W7Y49600 PROJ G-10 00 WG SHEET 10 of 79

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GENERAL	JORDAN VALLEY WATER							NED	1404- LINC DSE K.
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STRUCTURAL GENERAL NOTES - 2		ON	DATE		REVISION		BY APVD	18/2	ENGINES
	11800 SOUTH ZONE C RESERVOIRS	DSGN		DR	CHK	APVD		024	
			S ROSE		T STIMPSON A FIRTH/B PHELPS		SROSE	SE	
.D REUSE O	REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN AS AN INSTRUMENT OF PROPESSIONAL SERVICE, IS THE PROPERTY OF	INCORPOR/	TED HEREIN, AS A	N INSTRUMENT OF PROFES	SIONAL SERVICE, IS THE PROPER	RTY OF	Ϋ́Θ	ACOBS 2024.	@JACOBS 2024. ALL RIGHTS RESERVED.

INSTRUMENT IDENTIFICATION **EXAMPLE SYMBOLS** FIRST LETTER(S) - CLARIFYING ABBREVIATIONS - SUCCEEDING LETTER(S) SET LETTER (USED WHEN THERE ARE MULTIPLE DEVICES WITH THE SAME UNIT NUMBER) LOOP NUMBER **DIGITAL SYSTEM INTERFACES** ANALOG INPUT ANALOG OUTPUT DISCRETE INPUT DO DISCRETE OUTPUT ETHERNET/IP **GENERAL INSTRUMENT OR FUNCTIONAL SYMBOLS** FIELD MOUNTED REAR-OF-PANEL MOUNTED (OPERATOR INACCESSIBLE) PANEL MOUNTED (OPERATOR ACCESSIBLE) MCC MOUNTED COMPUTER FUNCTION PLC FUNCTION SHARED DISPLAY,

INSTRUMENT IDENTIFICATION LETTERS TABLE FIRST-LETTER SUCCEEDING-LETTERS PROCESS OR READOUT OR READOUT OR READOUT OR LETTER MODIFIER INITIATING VARIABLE PASSIVE FUNCTION PASSIVE FUNCTION PASSIVE FUNCTION ANALYSIS (+), AIR ALARM USER'S CHOICE (*) BURNER, COMBUSTION USER'S CHOICE (* USER'S CHOICE (*) USER'S CHOICE (*) CONTROL DENSITY (S.G.) DIFFERENTIAL PRIMARY ELEMENT, SENSOR Ε VOLTAGE FLOW RATE RATIO (FRACTION) GATE USER'S CHOICE (*) G GLASS, GAUGE VIEWING DEVICE HAND (MANUAL) HIGH CURRENT (ELECTRICAL) INDICATE POWER SCAN TIME RATE OF CHANGE CONTROL STATION TIME TIME SCHEDULE LEVEL LIGHT (PILOT) LOW MOTION MIDDLE, INTERMEDIATE USER'S CHOICE (*) N TORQUE USER'S CHOICE (*) USER'S CHOICE (*) USER'S CHOICE (*) ORIFICE, RESTRICTION 0 POINT (TEST) CONNECTION PRESSURE, VACUUM RELIEF Q QUANTITY RADIATION RECORD OR PRINT SPEED, FREQUENCY SAFETY SWITCH S TEMPERATURE TRANSMIT MULTI VARIABLE MULTI FUNCTION MULTI FUNCTION MULTI FUNCTION VIBRATION, MECHANICAL ANALYSIS VACUUM VALVE, DAMPER, LOUVER WEIGHT, FORCE W WELL UNCLASSIFIED (*) X AXIS UNCLASSIFIED (*) UNCLASSIFIED (*) UNCLASSIFIED (*) EVENT, STATE OR PRESENCE RELAY, COMPUTE, CONVERT Y AXIS Z POSITION Z AXIS DRIVE, ACTUATOR CONTROL ELEMEN

TABLE BASED ON THE INSTRUMENTATION, SYSTEMS, AND AUTOMATION SOCIETY (ISA) STANDARD.

(+) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS. (*) WHEN USED, DEFINE THE MEANING HERE FOR THE PROJECT.

TRANSDUCERS ACCESSORY DEVICES SPECIAL CASES

١.	ANALOG	1	CURRENT	Α	ALARM
)	DIGITAL	Р	PNEUMATIC	С	CONTROLLER
	VOLTAGE	PF	PULSE FREQUENCY	1	INDICATOR
	FREQUENCY	PD	PULSE DURATION	R	RECORDER
I	HYDRAULIC	R	RESISTANCE	S	SWITCH
				Т	TRANSMITTER
XAN	MPLE			Χ	UNCLASSIFIED

CURRENT TO PNEUMATIC TRANSDUCER (BACK OF

HS

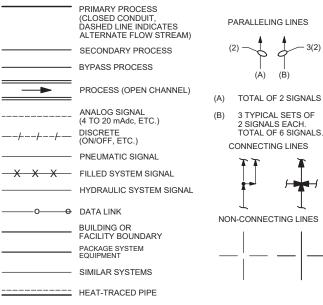
ON-OFF HAND SWITCH MAINTAINED CONTACT SWITCH (CONTROLLED DEVICE WILL RESTART ON RETURN OF POWER AFTER POWER FAILURE



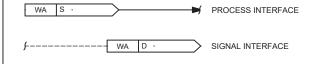
STOP-START HAND SWITCH MOMENTARY CONTACT SWITCHES (CONTROLLED DEVICE WILL NOT RESTART ON RETURN OF POWER

ON AND OFF EVENT

LINE LEGEND



INTERFACE SYMBOLS



SOURCE UNIT PROCESS NO. (1 OR 2 DIGITS)

INTERFACE NO. (2 DIGITS)

DESTINATION DRAWING NO.

SOURCE DRAWING NO.



ABBREVIATIONS & LETTER SYMBOLS

2)	AC ACC AM CAM CCS CL ₂ etc.	ALTERNATING CURRENT AREA CONTROL CENTER AUTO-MANUAL COMPUTER-AUTO-MANUAL CENTRAL CONTROL SYSTEM CHLORINE (TYPICAL: USE STANDARD CHEMICAL ELEMENT ABBREVIATIONS)
S S.	CLSD CM COD CP-X DC DCS DCU DO FCL ₂	CLOSED COMPUTER-MANUAL CHEMICAL OXYGEN DEMAND CONTROL PANEL NO. X DIRECT CURRENT DISTRIBUTED CONTROL SYSTEM DISTRIBUTED CONTROL UNIT DISSOLVED OXYGEN FREE CHLORINE RESIDUAL
s	FOS FOSA FOSR FP-W-X	FAST-OFF-SLOW FAST-OFF-SLOW-AUTO FAST-OFF-SLOW-REMOTE FIELD PANEL NO. WX (W=UNIT PROCESS NUMBER X=PANEL NUMBER)
3	FR GNG HOR ISR JB	FORWARD-REVERSE GO-NO GO HAND-OFF-REMOTE INTRINSICALLY SAFE RELAY JUNCTION BOX
	LCP LEL LOS LR MA MC-X MCP MSC OC OCA OCR	JONE TO THE STATE OF THE SUPPLIED CABLE OPEN-CLOSE AUTO OPEN-CLOSE AEMOTE
	OO OOA OOR ORP OSC OPND PH PLC REM RIO SHWR SHWR SS SSC TCL2 TOC TURB VCP	ON-OFF ON-OFF-AUTO ON-OFF-REMOTE OXIDATION REDUCTION POTENTIAL OPEN-STOP-CLOSE OPENED HYDROGEN ION CONCENTRATION PROGRAMMABLE LOGIC CONTROLLER REMOTE REMOTE I/O UNIT REMOTE MULTIPLEXING MODULE NO. X REMOTE TELEMETRY UNIT NO. X SLOWER-FASTER SPEED HAND CONTROL SHOWER START-STOP SUPERVISORY SET POINT CONTROL TOTAL CHLORINE RESIDUAL TOTAL ORGANIC CARBON TOTAL OXYGEN DEMAND TURBIDITY VIBRATION CONTROL PANEL

VIBRATION CONTROL PANEL VOLATILE HYDROCARBONS

CHARACTERIZED
RAISED TO THE Nth POWER

REPEAT OR BOOST SELECT HIGHEST SIGNAL

SELECT LOWEST SIGNAL BIAS GAIN OR ATTENUATE

VIBRATION DIFFERENCE

MULTIPLY DIVIDE

GENERAL NOTES

SQUARE ROOT AVERAGE

VCP VHC VIB

√ AVG

- COMPONENTS AND PANELS SHOWN WITH A SINGLE ASTERISK (*) ARE TO BE PROVIDED AS PART OF A
- COMPONENTS AND PANELS SHOWN WITH A DOUBLE ASTERISK ($\star\star$) ARE TO BE PROVIDED UNDER DIVISION 26, ELÉCTRICAL
- COMPONENTS SHOWN WITH A TRIPLE ASTERISK (***) ARE OWNER FURNISHED.
- THIS INFORMATION MAY BE USED ON THE PROJECT



INSTRUMENT AND EQUIPMENT TAG NUMBERS

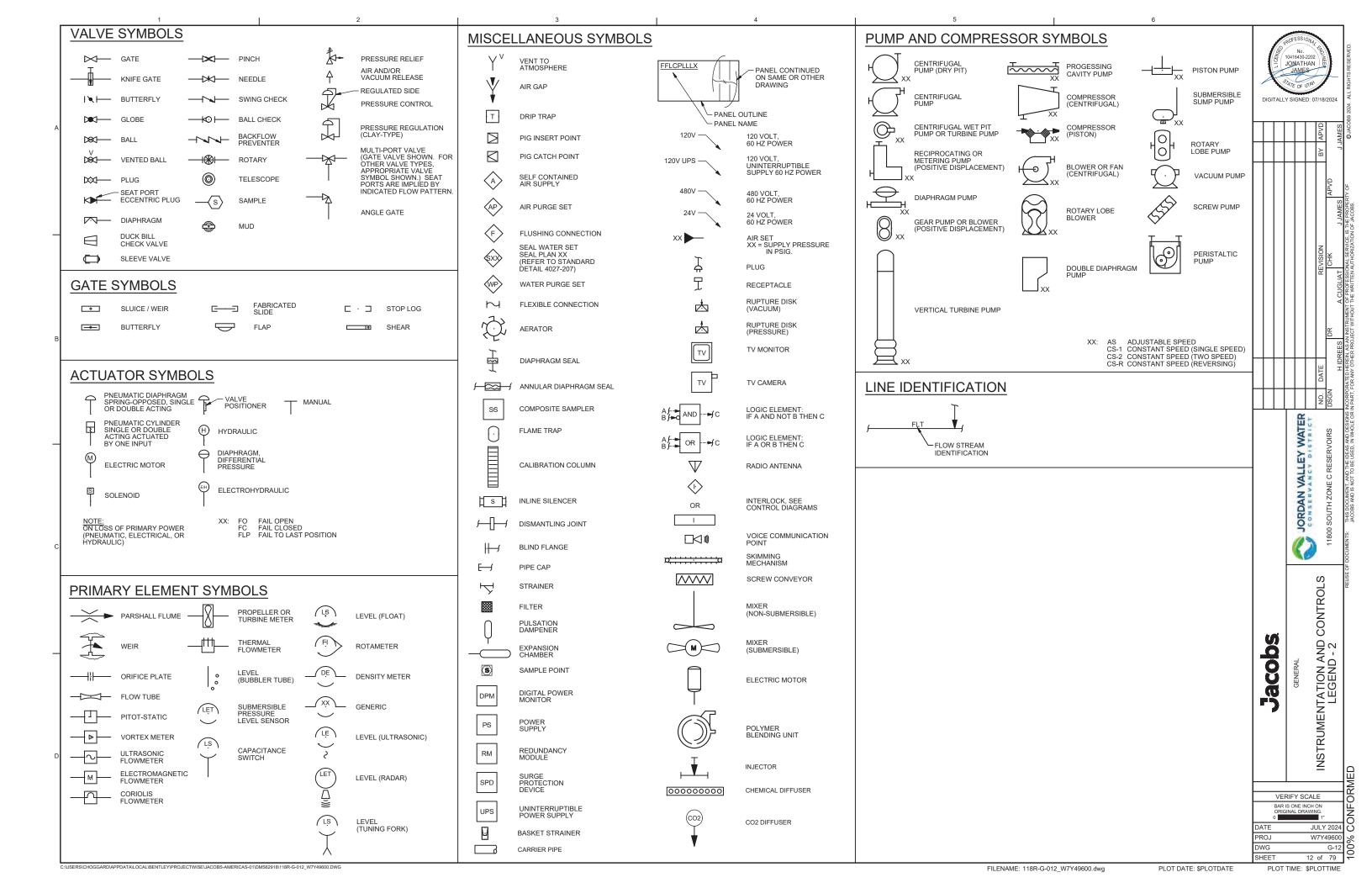
TAG NUMBER = PER JVWCD STANDARDS

123 = FACILITY NUMBER

= EQUIPMENT/INSTRUMENT IDENTIFIERS

45678 = LOOP NUMBER

THIS IS A STANDARD LEGEND. THEREFORE, NOT ALL OF



	1	2	3		4		5	6		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION		PROFESSIONAL
	POWER SYSTEMS PLANS - 1		CONTROL DIAGRAMS		ABBREVIATION	<u>ONS</u>	_	ECURITY SYSTEM PLAN AND RISER		No. 10416430-2202 JONATHAN
(A)	CONNECTION POINT TO EQUIPMENT SPECIFIED. RACEWAY, CONDUCTOR, TERMINATION AND CONNECTION		PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN	A AC	AMPERE, AUTOMATIC ALTERNATING CURRENT		CR	CARD KEY ACCESS LOCATION		JAMES
MCC-A	IN THIS DIVISION.	<u> </u>	PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED	AFF AIC	ABOVE FINISHED FLOOR AMPERE INTERRUPTING CAPACITY		cs	CONTROL STATION	DIGITAL	Y SIGNED: 07/18/2024
	MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME OR IDENTIFYING SYMBOL AS SHOWN.	HAND OFF REMOTE	SELECTOR SWITCH - MAINTAINED CONTACT - CHART	BKR BLDG	BREAKER BUILDING		DS 🔯	DOOR SWITCH	DIGITALL	31GNED: 07/10/2024
	PANELBOARD - SURFACE MOUNTED	HAND REMOTE	IDENTIFIES OPERATION WHEN NEEDED FOR CLARITY:	С	CONDUIT, CONTACTOR, CONDUCTOR	R, CLOSE	<u> </u>	EGRESS PUSHBUTTON		DVG r
LPXXA	PANELBOARD LETTER OR NUMBER		CKT HAND	CKT CL CPT	CIRCUIT CHLORINE CONTROL POWER TRANSFORMER			ELECTRONIC LOCK		<u> </u>
	FACILITY NUMBER LP - LOW VOLTAGE PANEL	<u></u>	1 X 2 0	CPT CR CT	CONTROL RELAY CURRENT TRANSFORMER				HH	
	DP - DISTRIBUTION PANEL		MUSHROOM HEAD SWITCH	DC	DIRECT CURRENT			INTERCOM		
	TERMINAL JUNCTION BOX	Ā	INDICATING LIGHT, PUSH-TO-TEST, LETTER	DCS DP DPC	DISTRIBUTED CONTROL SYSTEM DISTRIBUTION PANEL DEFINITE PURPOSE CONTACTOR			MONITOR		,
M	MOTOR, SQUIRREL CAGE INDUCTION		INDICATES COLOR	DS	DISCONNECT SWITCH		»	MOTION SENSOR		
→ LPXXA	HOME RUN - DESTINATION SHOWN	A	INDICATING LIGHT - LETTER INDICATES COLOR A - AMBER G - GREEN S - STROBE	E ENCL EX	EMPTY ENCLOSURE			VIDEO CAMERA		
or	- EXPOSED CONDUIT AND CONDUCTORS*		B - BLUE R - RED C - CLEAR W - WHITE	F, FU	EXHAUST FUSE					NOIS H
or - #/+/-		ETM)	ELAPSED TIME METER	FÍT FREQ	FLOW INDICATING TRANSMITTER FREQUENCY				$ \ \ \ $	
NOTE:		M	MOTOR STARTER CONTACTOR COIL	FT G	FLOW TRANSMITTER GROUND		_	POWER SYSTEMS PLANS - 2	$ \ \ \ $	
CONDUCTORS IN	CONDUIT RUNS CONSIST OF TWO NO. 12, ONE NO. 12 GROUND 3/4" CONDUIT. RUNS MARKED WITH CROSSHATCHES INDICATE 12 CONDUCTORS. CROSSHATCH WITH SUBSCRIPT "G" INDICATES	CRX	CONTROL RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT	GFCI GND	GROUND FAULT CIRCUIT INTERRUPT GROUND	ER	□	TRANSFORMER	$ \ \ \ $, ~
GREEN GROUND	WIRE.			HH HOA	HANDHOLE HAND-OFF-AUTO		60/40 🔀	FUSED DISCONNECT SWITCH, CURRENT RATING INDICATED (60/40, 60=SWITCH RATING / 40=FUSE RATING)		
[A1]	- CONDUIT AND CONDUCTOR CALLOUT, SEE LEGEND.		TIME DELAY RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT	HP HS	HORSEPOWER HAND SWITCH			3 POLE COMBINATION CIRCUIT BREAKER AND	$ \ \ \ $,
` 	CONDUIT DOWN		CONTACT - NORMALLY OPEN	HZ IC	HERTZ INTERRUPTING CAPACITY		2	MAGNETIC STARTER, NEMA SIZE INDICATED	НН	
 	CONDUIT UP		CONTACT - NORMALLY CLOSED	I/O	INPUT / OUTPUT		2 🔀	STARTER, MAGNETIC NEMA SIZE INDICATED		DAT
	CONDUIT, STUBBED AND CAPPED	│ │ □ - □─	REMOTE DEVICE	J, JB KA	JUNCTION BOX KILOAMPERES		РВ	PULLBOX		NO.
CE	- CONCRETE ENCASED CONDUIT	0.0	TIME DELAY RELAY CONTACT, NORMALLY OPEN,	KV KVA	KILOVOLT KILOVOLT AMPERES		×	POLE		# 5
——ЕХ——	- EXISTING CONDUIT/DUCTBANK	0.70	CLOSES WHEN ENERGIZED AND TIMED OUT	KW LP	KILOWATTS LIGHTING PANELBOARD					WATE
DB	- DIRECT BURIED CONDUIT	\ \	TIME DELAY RELAY CONTACT, NORMALLY CLOSED, OPENS WHEN ENERGIZED AND TIMED OUT	LSH	LEVEL SWITCH HIGH	D. MANULAL				EY W
① or HH	GENERAL CONTROL OR WIRING DEVICE. LETTER SYMBOLS OR ABBREVIATIONS		TIME DELAY RELAY CONTACT, CLOSES WHEN ENERGIZED, OPENS WHEN DE-ENERGIZED AND TIMED OUT	MCC-X MFR	MAGNETIC CONTACTOR COIL, MOTOI MOTOR CONTROL CENTER NO. X MANUFACTURER	R, MANUAL				C. RES
cs	INDICATE TYPE OF DEVICE CONTROL STATION, SEE CONTROL DIAGRAMS	0,0	TIME DELAY RELAY CONTACT, OPENS WHEN ENERGIZED, CLOSES WHEN DE-ENERGIZED AND	MOV MPC MSC	MOTOR OPERATED VALVE MINI-POWER CENTER					ONE ONE
	FOR CONTROL DEVICE(S) REQUIRED.		TIMED OUT	NC	MANUFACTURER SUPPLIED CABLE NORMALLY CLOSED					DAN SE S
30 ☐r	NONFUSED DISCONNECT SWITCH, CURRENT RATING INDICATED, 3 POLE		TERMINAL BLOCK, REMOTE	NEMA N.O. NTS	NATIONAL ELECTRICAL MANUFACTU NORMALLY OPEN NOT TO SCALE	RERS ASSOCIATION				S 00 800
2	CONVENIENCE RECEPTACLE - DUPLEX UNLESS NOTED OTHERWISE		TERMINAL BLOCK, INTERNAL	NW OL	NETWORK OVERLOAD RELAY					1180
	WP - WEATHERPROOF TL - TWIST LOCK	ODT	TERMINO DE DECOR, INTERNACE	Р	POLES					
	GFCI - GROUND FAULT CIRCUIT INTERRUPTER SUBSCRIPT NUMBER AT RECEPTACLE INDICATES CIRCUIT	EPT METERS		PB PIT PLC	PULL BOX PRESSURE INDICATING TRANSMITTE PROGRAMMABLE LOGIC CONTROLLE					1
S	WALL SWITCH:	120V	TRANSFORMER, CONTROL POWER	PT	PRESSURE TRANSMITTER	.ix				1
	WP- WEATHERPROOF M- MOTOR RATED	T	FLOAT SWITCH, NORMALLY OPEN, CLOSES ON DESCENDING LEVEL	RCPT RGS RIO	RECEPTACLE RIGID GALVANIZED STEEL CONDUIT REMOTE I/O UNIT					
	MS- MANUAL STARTER WITH OVERLOADS		FLOAT SWITCH, NORMALLY OPEN, CLOSES ON	RTU RTU-X	REMOTE TERMINAL UNIT REMOTE TELEMETRY UNIT NO. X				LOS	END CM
	- UTILITY POLE		RISING LEVEL	S SS	SOUTH START STOP				Ã	EGE
	- CIRCUIT BREAKER. THERMAL MAGNETIC TRIP SHOWN.	oTo	PRESSURE SWITCH, NORMALLY CLOSED, OPENS ON RISING PRESSURE	SST SV	STAINLESS STEEL SOLENOID VALVE				8	L LE
400	3 POLE, UNO	\$	PRESSURE SWITCH, NORMALLY OPEN, CLOSES ON	TSP TYP	TWISTED SHIELDED PAIR TYPICAL				9	GEN CAI
3	MOTOR, SQUIRREL CAGE INDUCTION - HORSEPOWER INDICATED		RISING PRESSURE	UON V	UNLESS OTHERWISE NOTED				7	IRI
0	UTILITY REVENUE METER		LIGHTING SYSTEM PLAN	V VA VFD	VOLTAGE, VOLTS VOLT-AMPERES VARIABLE FREQUENCY DRIVE					LEC
			LUMINAIRE, SEE SCHEDULE ON DRAWING	w	WATTS					
<u> </u>	GROUND		SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE	WIU WP	WHILE-IN-USE WEATHERPROOF					1
•	GROUND ROD	\$ _{a or (2a)}	SMALL LET TER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING. SUBSCRIPT NUMBER AT LUMINAIRE INDICATES CIRCUIT	XFMR	TRANSFORMER					<u> </u>
G	GROUNDING CONDUCTOR, SIZE AS INDICATED	\$ ₃	WALL SWITCH:							RIFY SCALE
0	GROUND ROD IN TEST WELL		2- DOUBLE POLE P- PILOT LIGHT 3- THREE WAY K- KEY OPERATED						BAR ORIG	IS ONE INCH ON GINAL DRAWING. 1"
100/40	BREAKER, SEPARATELY MOUNTED, CURRENT RATING		4- FOUR WAY WP- WEATHERPROOF EX- EXPLOSIONPROOF L- MOMENTARY 3-WAY						DATE PROJ	JULY 2024 W7Y49600
	INDICATED (100/40, 100 = FRAME SIZE, 40 = TRIP RATING) 3 POLE		M- MOTOR RATED MS- MANUAL STARTER OS- OCCUPANCY SENSOR WITH OVERLOADS						DWG	G-13
C:\USERS\CHOGGARD\APPDAT	ALOCALIBENTLEY/PROJECTWISE/JACOBS-AMERICAS-01/DMS62918/118R-G-013_W7Y49600.DWG	<u> </u>		1				· 118R-G-013 W7Y49600 dwa PLOT DATE: \$PLOTDATE	SHEET	13 of 79

		1	2	3			
	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION			
A	SYMBOL	DESCRIPTION DRAWOUT AIR CIRCUIT BREAKER, LOW VOLTAGE CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE, UNO CIRCUIT BREAKER, STATIC TRIP UNIT, SENSOR AMP TRIP AND FRAME RATINGS SHOWN, 3 POLE, UNO CIRCUIT BREAKER, MAGNETIC TRIP ONLY, TRIP RATING SHOWN, 3 POLE, UNO CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, TRIP AND FUSE RATING INDICATED, 3 POLE, UNO FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE, UNO SWITCH, CURRENT RATING INDICATED, 3 POLE, UNO FUSE, CURRENT RATING AND QUANTITY INDICATED	SYMBOL W W W W W W W W W W W W W W W W W W	DESCRIPTION DRAWOUT POWER CIRCUIT BREAKER, MEDIUM VOLTAGE NON DRAWOUT FUSED SWITCH, MEDIUM VOLTAGE DRAWOUT FUSED SWITCH AND CONTACTOR, MEDIUM VOLTAGE DRAWOUT FUSED SWITCH AND VACUUM CONTACTOR, MEDIUM VOLTAGE DRAWOUT VACUUM CONTACTOR, MEDIUM VOLTAGE MEDIUM VOLTAGE CABLE STRESS CONE TYPE TERMINATION, OPEN TERMINATOR OR ELBOW SWITCH - LOAD BREAK, GROUP OPERATED, MEDIUM VOLTAGE SWITCH WIARCING HORNS, MEDIUM VOLTAGE			
В	(10) (G)	MAGNETIC STARTER WITH OVERLOAD, NEMA SIZE INDICATED, FVNR UNO ELECTRONIC STARTER/SPEED CONTROL RVSS = REDUCED VOLTAGE SOFT STARTER AFD = AC ADJUSTABLE FREQUENCY DRIVE DC = DC ADJUSTABLE SPEED DRIVE RVAT = REDUCED VOLTAGE AUTO TRANSFORMER TYPE RVRT = REDUCED VOLTAGE REACTOR TYPE CABLE OR BUS CONNECTION POINT KEY INTERLOCK SURGE ARRESTER (GAP TYPE) CAPACITOR - KVAR INDICATED, 3 PHASE AC MOTOR, SQUIRREL CAGE INDUCTION - HORSEPOWER INDICATED GENERATOR, KW/KVA RATING SHOWN	Q: Q	DISCONNECTING FUSE - SOLID MATERIAL, MEDIUM VOLTAGE SWITCH - HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE FUSE - EXPULSION, HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE GROUND SWITCH, GANG OPERATED TERMINAL BLOCK LUG DELTA CONNECTION WYE GROUNDED CONNECTION, SOLID GROUND WYE NEUTRAL GROUND RESISTOR OR IMPEDANCE CONNECTION RELAY OR DEVICE, FUNCTION NUMBER AS INDICATED CURRENT TRANSFORMER, ZERO SEQUENCE, RATIO AND QUANTITY INDICATED			
С	500/625 VS VS 0-600V DPM	ANALOG METER WITH SWITCH - SCALE RANGE SHOWN V = VOLTAGE KW = KILOWATTS A = AMPERAGE KVAR = KILOVARS PF = POWER FACTOR DIGITAL POWER METER (MULTIFUNCTION) UTILITY REVENUE METER GROUND	800/1200:5 (3) MO EUM MRP	BUSHING CURRENT TRANSFORMER, MULTI-RATIO AND QUANTITY INDICATED MOTOR OPERATOR, BREAKER OR SWITCH ENERGY MONITORING UNIT MOTOR PROTECTION RELAY			
	480-120/2 1 PH 480-120/2 (3)	TRANSFORMER, SIZE, VOLTAGE RATINGS, AND PHASE INDICATED SHIELDED ISOLATION TRANSFORMER POTENTIAL TRANSFORMER, VOLTAGE RATING AND QUANTITY INDICATED					
D	100:5 (3)	CURRENT TRANSFORMER, RATIO(100:5) AND QUANTITY INDICATED (3) CONNECTION POINT TO EQUIPMENT SPECIFIED IN OTHER DIVISIONS. RACEWAY, CONDUCTOR AND CONNECTION IN THIS DIVISION SURGE PROTECTIVE DEVICE	NOTES: 1. THESE ARE STANDARD LEGEND SHEETS, SOME SYMBOLS AND ABBREVIATIONS MAY APPEAR ON THE LEGEND AND NOT ON THE DRAWINGS. 2. FOR ADDITIONAL ABBREVIATIONS OF OTHER DIVISIONS (HVAC, MECHANICAL, AND STRUCTURAL/ARCHITECTURAL) SEE OTHER LEGENDS.				

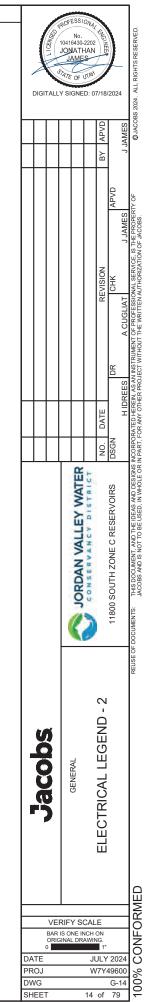
GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION

CIRCUIT AND RACEWAY

	POWER CIRC	CUIT CALLOUT	S	MULTICONE	DUCTOR POWER CABLE CIRCUIT CALLOUTS
[P1]	[1/2"FLEX, 2#12,#12G]	[P24]	[1"C,3#8,3#14,1#10G]	[PC1]	[3/4"C,1 (3C#12,1#12G) TYPE 2]
[P2]	[3/4"C,2#12,1#12G]	[P25]	[1"C,3#8,4#14,1#10G]	[PC2]	[3/4"C,1 (3C#10,1#10G) TYPE 2]
[P3]	[3/4"C,3#12,1#12G]	[P26]	[1"C,3#8,5#14,1#10G]	[PC3]	[3/4"C,1 (3C#8,1#10G) TYPE 2]
[P4]	[3/4"C,4#12,1#12G]	[P27]	[1"C,2#6, 1#10G]	[PC4]	[3/4"C,2 (3C#12,1#12G) TYPE 2]
[P5]	[3/4"C,5#12,1#12G]	[P28]	[1"C,3#6, 1#8G]	[PC5]	[1"C,2 (3C#10,1#10G) TYPE 2]
[P6]	[3/4"C,6#12,1#12G]	[P29]	[1"C,3#6, 2#14,1#8G]	[PC1A]	[3/4"C,1 (2C#12,1#12G) TYPE 2]
[P7]	[3/4"C,7#12,1#12G]	[P30]	[1 1/4"C,3#6, 3#14,1#8G]	[PC2A]	[3/4"C,1 (2C#10,1#10G) TYPE 2]
[P8]	[3/4"C,8#12,1#12G]	[P31]	[1 1/4"C,3#6, 4#14,1#8G]	' '	
[P9]	[3/4"C,3#12,2#14,1#12G]	[P32]	[1 1/4"C,3#6, 5#14,1#8G]		
[P10]	[3/4"C,3#12,3#14,1#12G]	[P33]	[1 1/4"C,3#4,1#8G]		
[P11]	[3/4"C,3#12,4#14,1#12G]	[P34]	[1 1/4"C,3#4,3#14,1#8G]		
[P12]	[3/4"C,3#12,5#14,1#12G]	[P35]	[1 1/4"C,3#4,5#14,1#8G]		EMPTY CONDUIT
[P13]	[3/4"C,3#12,6#14,1#12G]	[P36]	[1 1/4"C,3#3, 1#6G]		
[P14]	[1"C,3#12,7#14,1#12G]	[P37]	[1 1/4"C,3#3, 3#14,1#6G]	[EC-1]	[3/4"C,WITH PULL STRING]
[P15]	[2"C,2#10,1#10G]	[P38]	[1 1/4"C,3#2, 1#6G]	[EC-2]	[1"C,WITH PULL STRING]
[P16]	[3/4"C,3#10,1#10G]	[P39]	[1 1/2"C,3#1, 1#6G]	[EC-3]	[1 1/4"C,WITH PULL STRING]
[P17]	[3/4"C,3#10,2#14,1#10G]	[P40]	[2"C,3#1, 3#14,1#6G]	[EC-4]	[1 1/2"C,WITH PULL STRING]
[P18]	[3/4"C,3#10,3#14,1#10G]	[P41]	[2"C,3#2/0, 1#4G]	[EC-5]	[2"C,WITH PULL STRING]
[P19]	[3/4"C,3#10,4#14,1#10G]	[P42]	[2"C,3#3/0, 1#4G]	[EC-6]	[3"C,WITH PULL STRING]
[P20]	[1"C,3#10,5#14,1#10G]	[P43]	[2"C,3#4/0, 1#3G]	[EC-7]	[4"C,WITH PULL STRING]
[P21]	[1"C,2#8,1#10G]	[P44]	[1 1/2"C,4#1, 1#6G]	[EC-8]	[5"C,WITH PULL STRING]
[P22]	[1"C,3#8,1#10G]	[P45]	[2"C,3#2 (15KV), 1#6G (600V)]		
[P23]	[1"C,3#8,2#14,1#10G]	[1 40]	[2 0,0//2 (10/(4), 1//00 (0004)]	1	
A	NALOG CIRCUIT CALLOUTS	CON	TROL CIRCUIT CALLOUTS	MULTICONDI	JCTOR CONTROL CABLE CIRCUIT CALLOUT
[A1]	[3/4"C,1 TYPE 3]	[C1]	[3/4"C,MSC]	[CC3]	[3/4"C,1-3C TYPE 1]
[A2]	[3/4"C,2 TYPE 3]	[C2]	[3/4"C,2#14,1#14G]	[CC5]	[3/4"C,1-5C TYPE 1]
[A3]	[1"C,3 TYPE 3]	[C3]	[3/4"C,3#14,1#14G]	[CC7]	[3/4"C,1-7C TYPE 1]
[A4]	[1 1/4"C,4 TYPE 3]	[C4]	[3/4"C,4#14,1#14G]	[CC9]	[1"C,1-9C TYPE 1]
[A5]	[1 1/4"C,5 TYPE 3]	[C5]	[3/4"C,5#14,1#14G]	[CC12]	[1"C,1-12C TYPE 1]
[A6]	[1 1/4"C,6 TYPE 3]	[C6]	[3/4"C,6#14,1#14G]	[CC19]	[1 1/2"C, 1-19C TYPE 1]
[A7]	[1 1/2"C,7 TYPE 3]	[C7]	[3/4"C,7#14,1#14G]	[CC25]	[1 1/2"C,1-25C TYPE 1]
[8A]	[1 1/2"C,8 TYPE 3]	[C8]	[3/4"C,8#14,1#14G]	[CC37]	[2"C,1-37C TYPE 1]
[A9]	[1 1/2"C,9 TYPE 3]	[C9]	[3/4"C,9#14,1#14G]	[CCC1]	[1-7C #12 TYPE 1]
[A10]	[2"C,10 TYPE 3]	[C10]	[3/4"C,10#14,1#14G]		
[A11]	[2"C,11 TYPE 3]	[C11]	[3/4"C,11#14,1#14G]		
[A12]	[2"C,12 TYPE 3]	[C12]	[3/4"C,12#14,1#14G]		
[A13]	[2"C,13 TYPE 3]	[C13]	[3/4"C,13#14,1#14G]		
[A14]	[2"C,14 TYPE 3]	[C14]	[1"C,14#14,1#14G]		
[A15]	[3/4"C,1 TYPE 4]	[C15]	[1"C,15#14,1#14G]		
[A16]	[3/4"C,2 TYPE 4]	[C16]	[1"C,16#14,1#14G]		
[A17]	[1"C,3 TYPE 4]	[C17]	[1"C,17#14,1#14G]		
[A18]	[1 1/4"C,4 TYPE 4]	[C17]	[1"C,18#14,1#14G]		
r o 1	[1 1/4"C,5 TYPE 4]	[C19]	[1"C,19#14,1#14G]		
[A19]	L O,O L -1	1	[1"C,19#14,1#14G] [1"C,20#14,1#14G]		
[A19]	[1 1/4"C 6 TYPE 4]			I	
[A20]	[1 1/4"C,6 TYPE 4]	[C20]			
[A20] [A21]	[1 1/2"C,7 TYPE 4]	[C21]	[1"C,21#14,1#14G]		
[A20] [A21] [A22]	[1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4]	[C21] [C22]	[1"C,21#14,1#14G] [1"C,22#14,1#14G]		
[A20] [A21] [A22] [A23]	[1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4] [2"C,9 TYPE 4]	[C21] [C22] [C23]	[1"C,21#14,1#14G] [1"C,22#14,1#14G] [1"C,23#14,1#14G]		
[A20] [A21] [A22] [A23] [A24]	[1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4] [2"C,9 TYPE 4] [3/4"C,1-4 pr. TYPE 5]	[C21] [C22] [C23] [C24]	[1"C,21#14,1#14G] [1"C,22#14,1#14G] [1"C,23#14,1#14G] [1 1/4"C,24#14,1#14G]		
A20] A21] A22] A23]	[1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4] [2"C,9 TYPE 4]	[C21] [C22] [C23]	[1"C,21#14,1#14G] [1"C,22#14,1#14G] [1"C,23#14,1#14G]		

- NOTES:

 1. FOR CABLE TYPES, SEE SPECIFICATIONS. TYPES 1 AND 5 NOT INCLUDED. ALL CONDUCTORS SHALL BE STRANDED COPPER. ALL POWER CIRCUITS SHALL HAVE THEIR OWN NEUTRAL CONDUCTOR.
- POWER CIRCUIT CALLOUTS ARE BASED ON THE AREA OF THW CONDUCTORS. CONTROL CIRCUIT CALLOUTS ARE BASED ON THE AREAS OF SCHEDULE 40 PVC CONDUIT AND TYPES XHHW & XHHW-2 INSULATION.
- SIZING OF CONDUCTORS #1AWG AND SMALLER BASED ON AMPACITIES AT 60 DEGREES C, SIZING OF CONDUCTORS #1/0AWG AND LARGER BASED ON AMPACITIES AT 75 DEGREES C.
- 4. WHERE CIRCUITS ARE UNDERGROUND, DIRECT BURIED OR CONCRETE ENCASED, MINIMUM CONDUIT SIZE SHALL BE 1".



CRITICAL ROADWAY COORDINATE TABLE POINT NO NORTHING EASTING ELEVATION 5136.60 1482929.23 5135.82 7364441.74 7364538.75 1483077.39 5137.30 7364509.13 1483107.06 5136.60 1483133.41 5137.00 7364535.59 7364566.78 1483102.08 5138.65 7364587.42 1483097.26 5139.49 7364771.68 1483112.54 5147.49 7364810.31 1483152.93 5148.00 1483060.29 5150.85 7364811.26 7364788.07 1483092.88 5148.45 7364759.91 1483072.30 5148.36 12 7364743.76 1483083.15 5147.18 7364731.34 14 1483095.14 5145.74 7364758.29 1482883.13 5160.49 15 7364736.69 1482753.46 17 7364736.69 1482677.67 5160.99 7364702.98 1482601.82 5160.98 7364736.69 5160.98 19 1482915.66 7364591.44 1482770.62 5160.23 20 7364591.44 1482823.02 5160.23 7364456.82 1482708.08 5137.96 22 7364456.82 1482910.60 5135.60 7364441.04 1482699.55 5138.25 24 25 7364426.82 1482720.87 5137.87 26 7364418.25 1482723.20 27 7364306.82 1482723.30 5135.50 7364306.82 1483101.66 5132.48 29 7364441.74 1483101.66 5135.82 7364730.79 1483111.13 5145.63 30 31 7364751.76 1483103.85 5146.73 7364736.69 1482874.90 5161.00 32 7364714.39 1482883.28 5161.30 7364720.35 1482857.28 5161.05 34 7364720.35 1482736.05 5161.05 35 36 7364714.39 1482710.05 5161.30 37 7364784.22 1482801.86 5153.67 38 7364591.44 1482787.65 5158.95 7364500.49 1482784.67 5137.92 39 1482775.14 5135.13 40 7364484.10 7364464.90 1482735.42 5135.99 1482599.16 42 7364506.26 5144.54 7364461.61 1482866.74 5133.88 7364466.65 1482958.51 5135.00 44 7364579.19 1483071.86 5135.00 45 7364368.82 1482723.29 5136.71 7364368.82 1482841.29 47 5135.86 48 7364426.82 1482841.29 5137.05 7364500.58 1483110.63 5136.32 49 5130.86 7364362.18 1483110.63 7364362.18 1483150.63 5130.25 7364402.18 52 1483150.63 5131.76 7364402.18 1483122.63 5132.16 7364524.76 1483122.63 5136.83

			NORTH ACCESS RD			
SEGMENT	LINE/CHORD LENGTH	RADIUS	LINE/CHORD DIRECTION	DELTA	N/E START	N/E END
L1	23.7'		S89° 59' 59.99"W		STA. 0+00.00 N: 7364751.76 E: 1483103.85	STA. 0+23.73 N: 7364751.76 E: 1483080.12
C1	5.4'	200'	N89° 13'W	001° 33' 20"	STA. 0+23.73 N: 7364751.76 E: 1483080.12	STA. 0+29.16 N: 7364751.83 E: 1483074.69
L2	62.8'		N86° 53' 18.38"W		STA. 0+34.59 N: 7364752.05 E: 1483069.26	STA. 0+97.42 N: 7364755.46 E: 1483006.53
C2	5.4'	200'	N87° 40'W	001° 33' 20"	STA. 0+97.42 N: 7364755.46 E: 1483006.53	STA. 1+02.85 N: 7364755.68 E: 1483001.10
L3	81.3'		S89° 59' 59.99"W		STA. 1+08.28 N: 7364755.76 E: 1482995.67	STA. 1+89.56 N: 7364755.76 E: 1482914.39
C3	23.8'	84'	S81° 52'W	016° 15' 40"	STA. 1+89.56 N: 7364755.76 E: 1482914.39	STA. 2+13.40 N: 7364752.40 E: 1482890.87
L4	11.0'		S57° 28' 37.65"W		STA. 2+37.24 N: 7364742.58 E: 1482869.23	STA. 2+48.20 N: 7364736.69 E: 1482859.99
	·		·			

			ENTRANCE ROAD			
SEGMENT	LINE/CHORD LENGTH	RADIUS	LINE/CHORD DIRECTION	DELTA	N/E START	N/E END
L1	192.2'		S01° 58' 05.34"W		STA. 0+00.00 N: 7364826.12 E: 1483106.40	STA. 1+92.22 N: 7364634.01 E: 1483099.80
C1	31.7'	108'	S10° 24'W	016° 52' 40"	STA. 1+92.22 N: 7364634.01 E: 1483099.80	STA. 2+24.03 N: 7364602.84 E: 1483094.08
L2	31.8'		S18° 50' 47.58"W		STA. 2+24.03 N: 7364602.84 E: 1483094.08	STA. 2+55.87 N: 7364572.71 E: 1483083.79
C2	198.2'	183'	S51° 38'W	065° 33' 30"	STA. 2+55.87 N: 7364572.71 E: 1483083.79	STA. 4+65.25 N: 7364449.69 E: 1482928.45
	·					

			EAST ACCESS ROAD			
SEGMENT	LINE/CHORD LENGTH	RADIUS	LINE/CHORD DIRECTION	DELTA	N/E START	N/E END
C1	224.7'	163'	N43° 34'W	087° 08' 20"	STA0+00.00 N: 7364449.03 E: 1482699.95	STA. 2+47.90 N: 7364611.82 E: 1482545.08
L1	0.9'		N00° 00' 00.00"E		STA. 2+47.90 N: 7364611.82 E: 1482545.08	STA. 2+48.77 N: 7364612.69 E: 1482545.08
C2	164.0'	116'	N45° 00'E	090° 00' 00"	STA. 2+48.77 N: 7364612.69 E: 1482545.08	STA. 4+30.98 N: 7364728.69 E: 1482661.08
L2	14.4'		N90° 00' 00.00"E		STA. 4+30.98 N: 7364728.69 E: 1482661.08	STA. 4+45.34 N: 7364728.69 E: 1482675.44

	INLET / OUTLE	T PIPING - EAST	
ELEMENT	STATION	NORTHING	EASTING
POB	97+19.50	7364537.79	1483119.64
PI	98+86.53	7364420.68	1483000.55
TEE	100+87.16	7364420.68	1482799.91
WYE	101+12.00	7364445.52	1482799.91
PI	101+56.97	7364490.49	1482799.91
POE	102+56.68	7364561.00	1482870.42

I	NLET / OUTLE	FPIPING - WEST	Г
ELEMENT	STATION	NORTHING	EASTING
WYE	104+12.00	7364445.52	1482799.91
PI	104+21.20	7364452.02	1482793.41
PI	104+59.67	7364490.49	1482793.41
POE	105+59.38	7364561.00	1482722.91

	OVERFLOW	PIPING - EAST	
ELEMENT	STATION	NORTHING	EASTING
POB	207+64.44	7364564.09	1482865.74
PI	207+84.44	7364549.95	1482851.59
OVERFLOW JUNCTION	208+76.31	7364504.21	1482771.91

	OVERFLOW F	PIPING - WEST	
ELEMENT	STATION	NORTHING	EASTING
POB	200+00.00	7364558.17	1482717.96
OVERFLOW JUNCTION	200+76.31	7364504.21	1482771.91
POE	205+00.00	7364080.52	1482771.91

LEAK DETECTION / DRAINAGE PIPING - EAST			
ELEMENT	STATION	NORTHING	EASTING
POB	219+80.56	7364552.84	1482887.72
PI	220+81.35	7364481.57	1482816.45
PI	221+18.02	7364480.82	1482779.91
LEAK DETECTION BOX	221+18.02	7364480.82	1482779.91

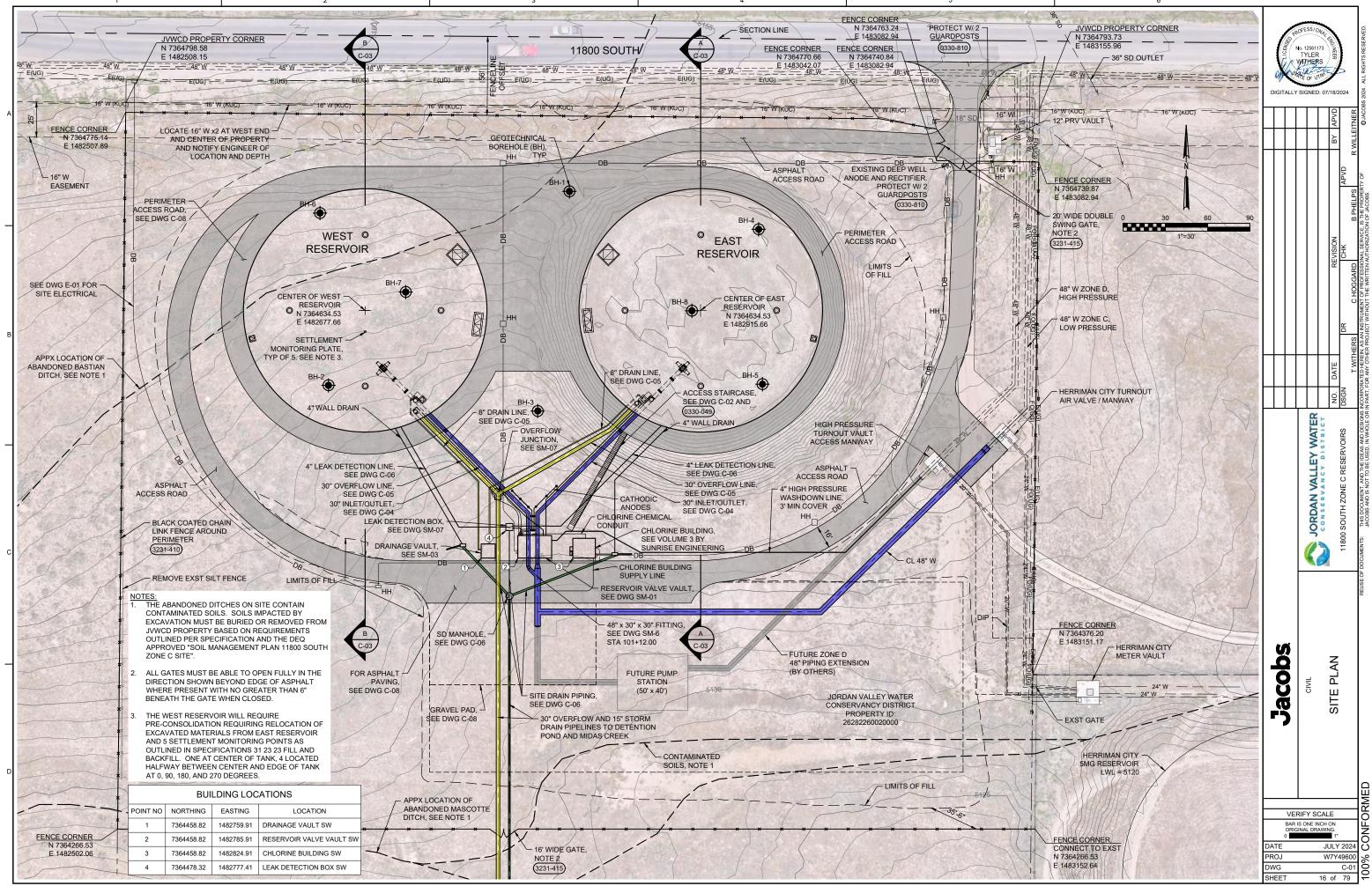
LEAK DE	ETECTION / DR	AINAGE PIPING	- WEST
ELEMENT	STATION	NORTHING	EASTING
POB	210+00.00	7364551.99	1482702.99
PI	210+82.17	7364480.82	1482744.07
LEAK DETECTION BOX	211+18.02	7364480.82	1482779.91
60" SD MH #1	211+67.02	7364431.82	1482779.91
POE	215+18.32	7364080.52	1482779.91

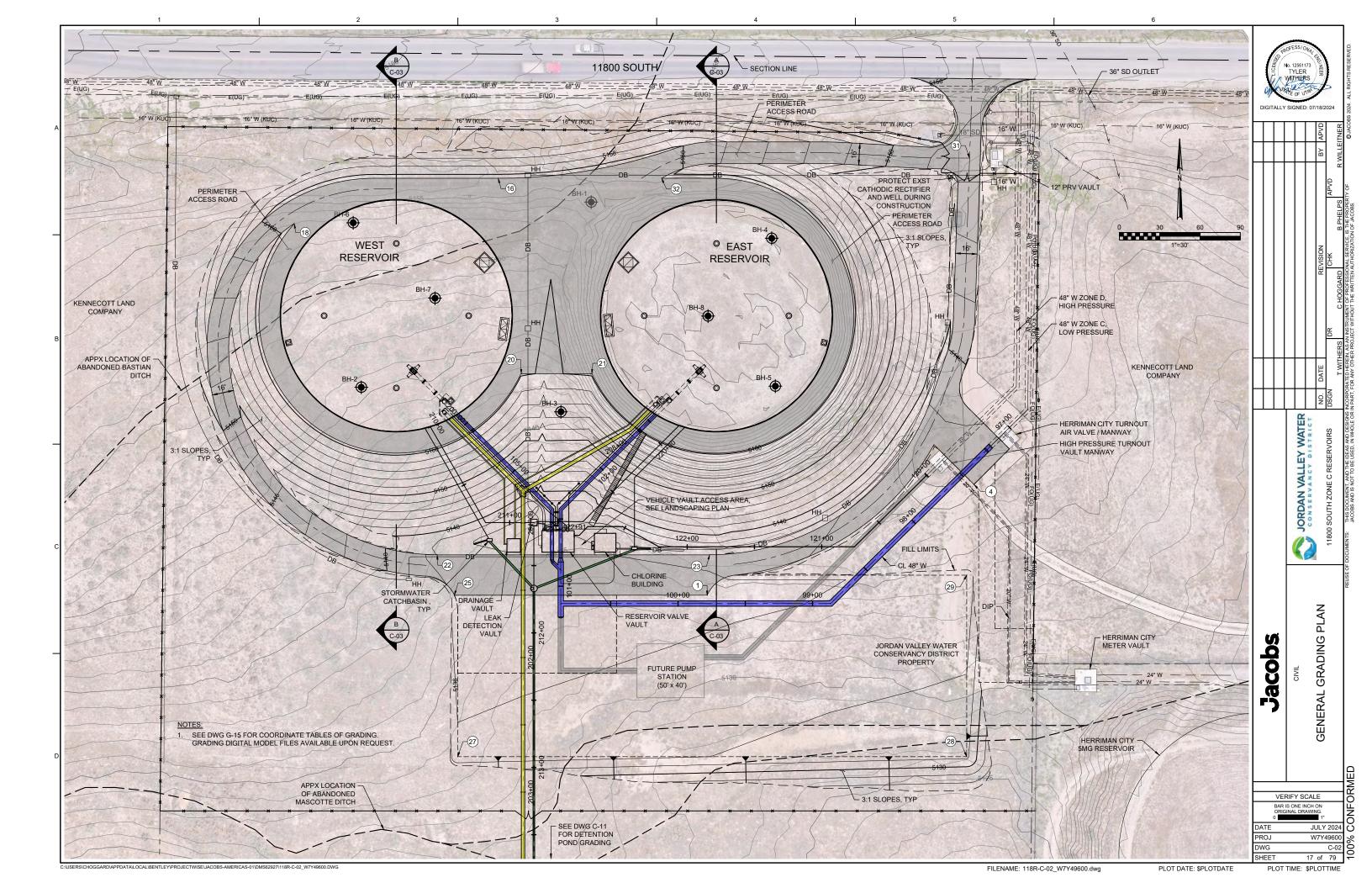
SH PRESSURE WASHDOWN FROM 48" W TO VALVE VAULT				
LEMENT	STATION	NORTHING	EASTING	
POB	120+00.00	7364516.07	1483072.04	
PI	120+75.71	7364462.82	1483018.22	
PI	122+21.05	7364462.82	1482872.89	
PI	122+51.91	7364477.82	1482845.91	
PI	122+77.91	7364477.82	1482819.91	
PI	122+86.87	7364471.32	1482813.75	
POE	122+90.70	7364471.32	1482809.91	

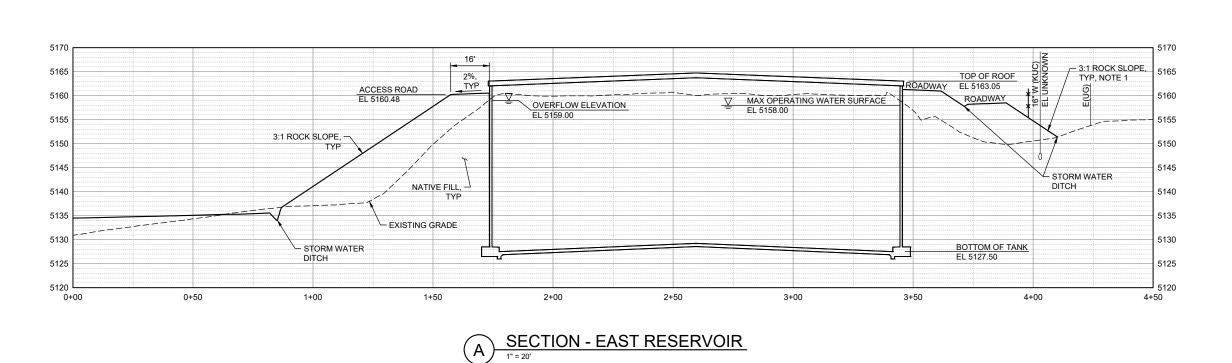


PROJ

DWG SHEET W7Y49600

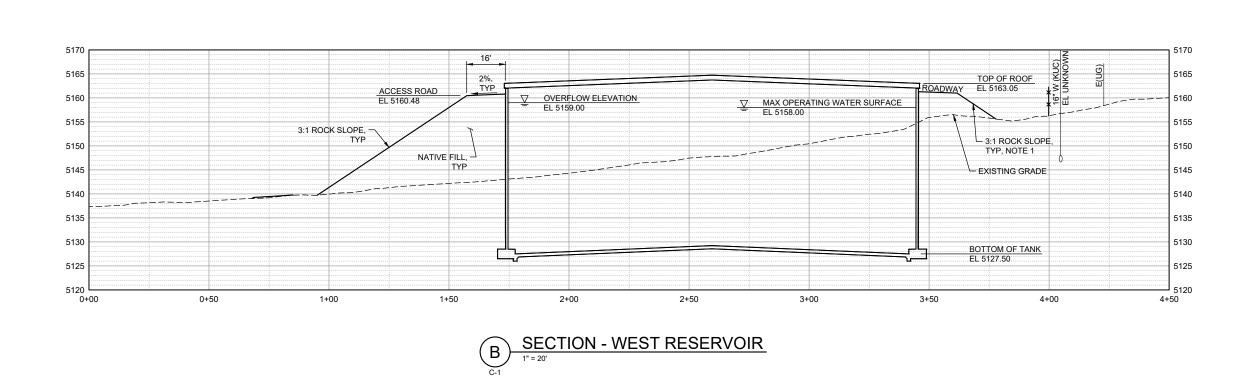




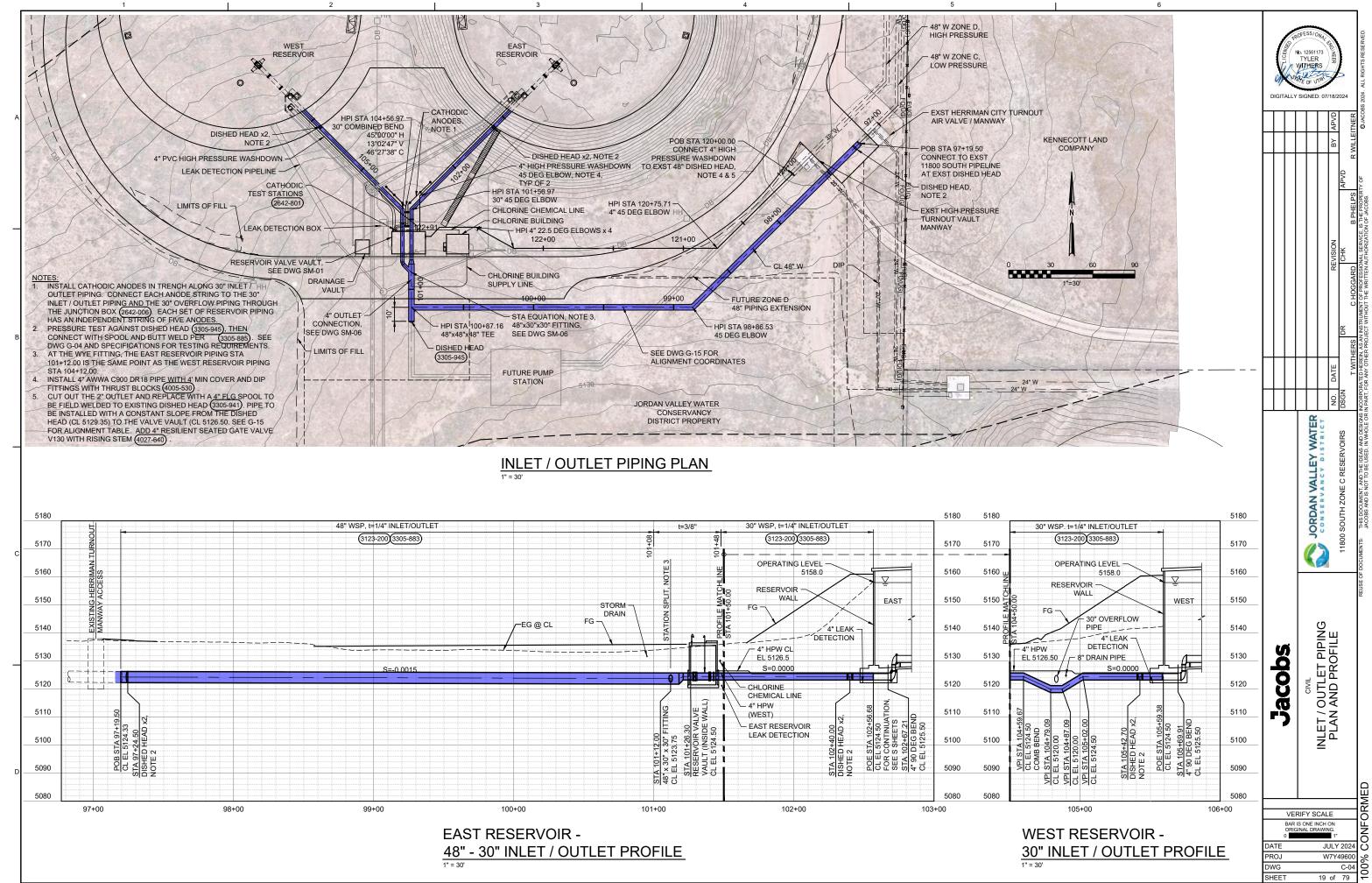


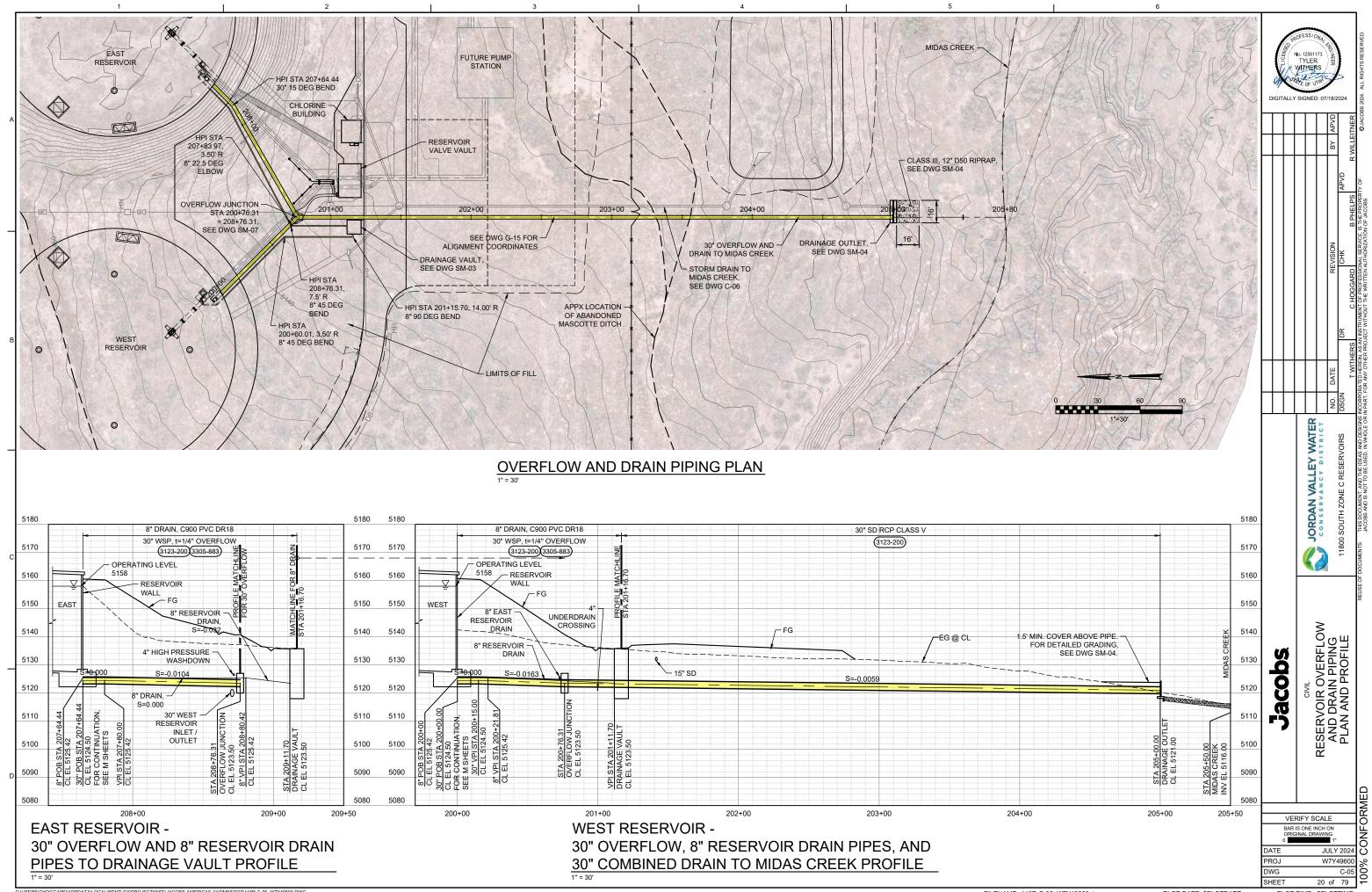
NOTES:

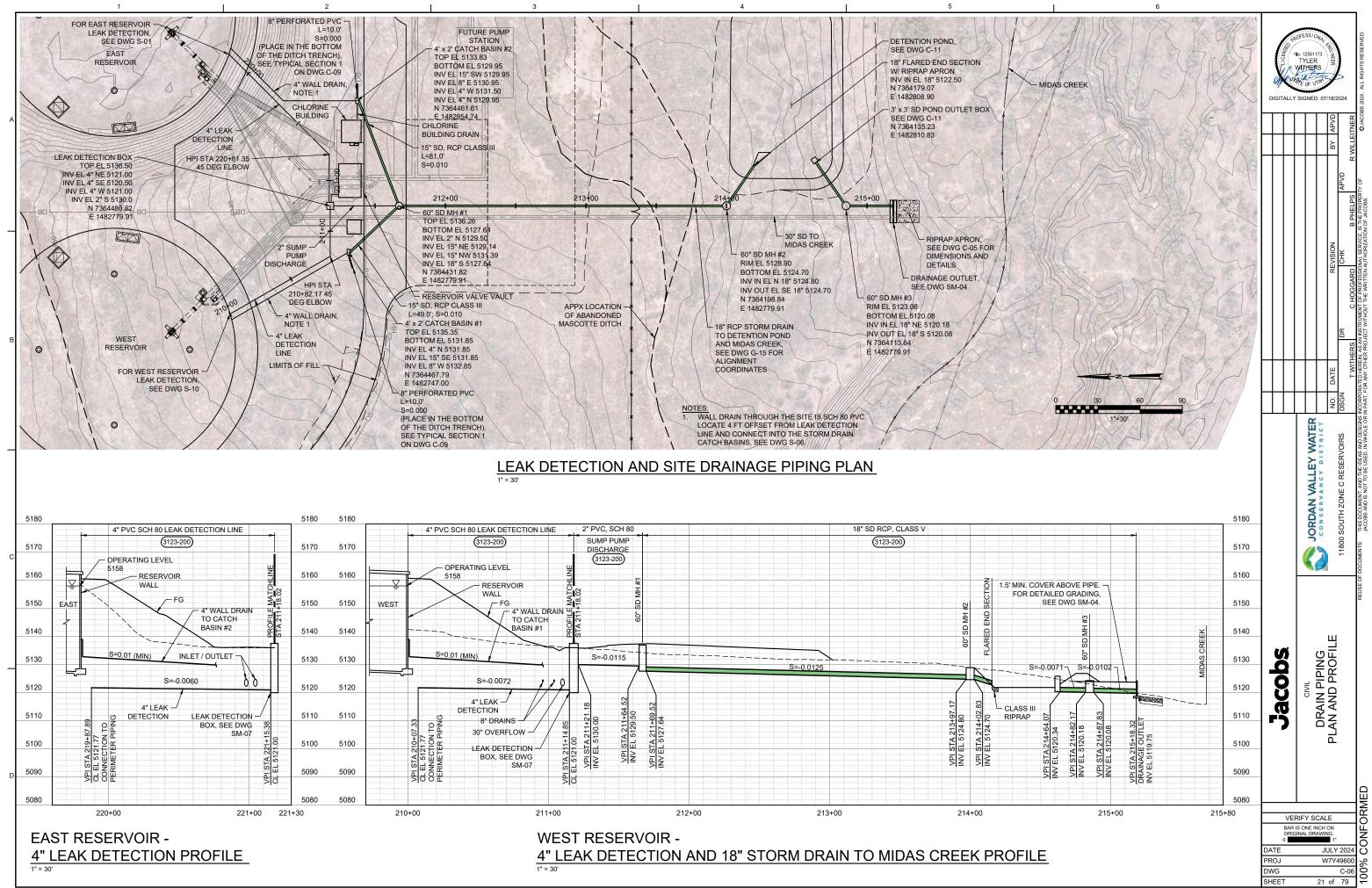
LANDSCAPE AND VEGETATE SLOPES PER DWG C-10
 AND SPECIFICATION SECTION 32 92 00.

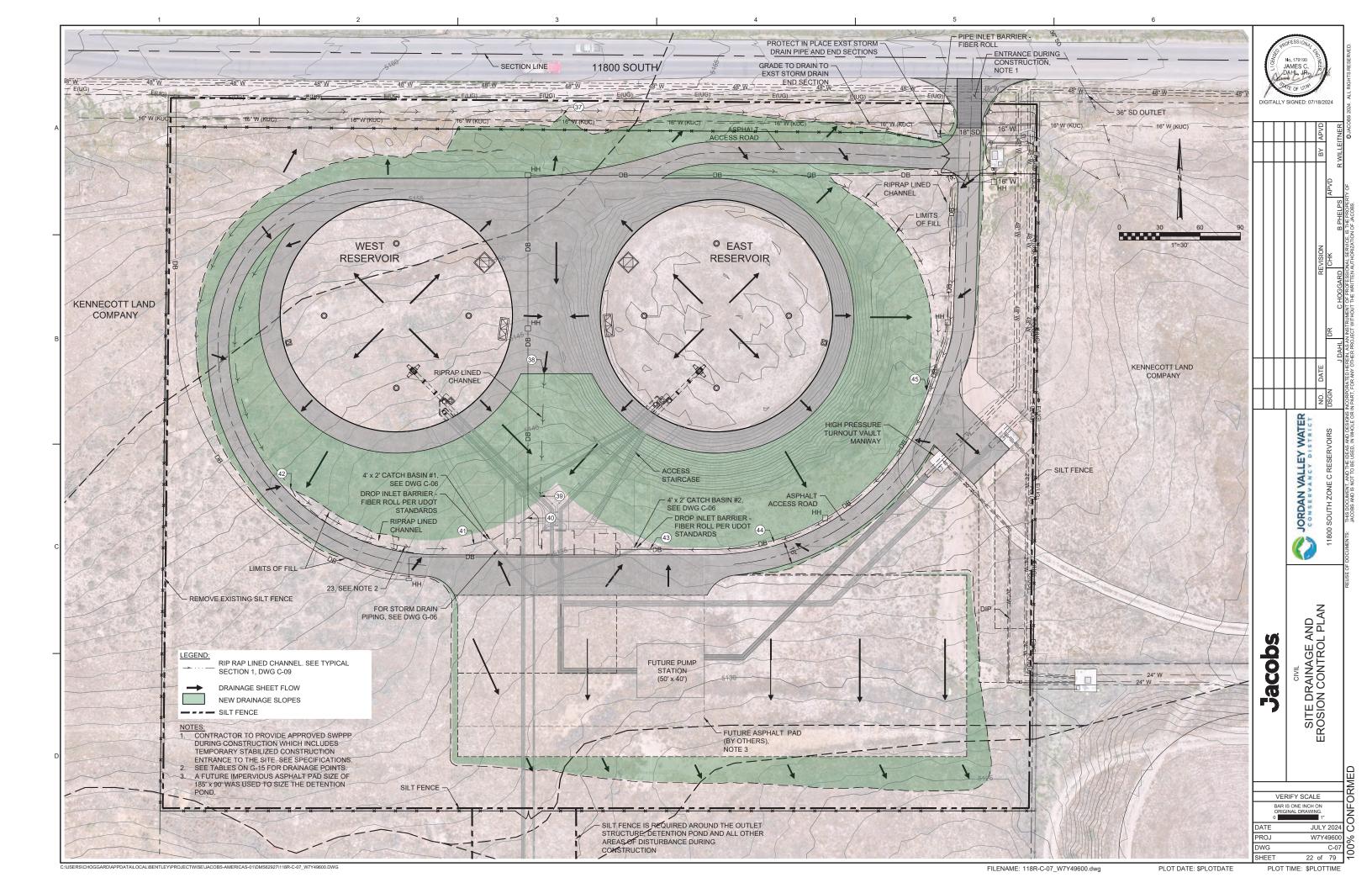


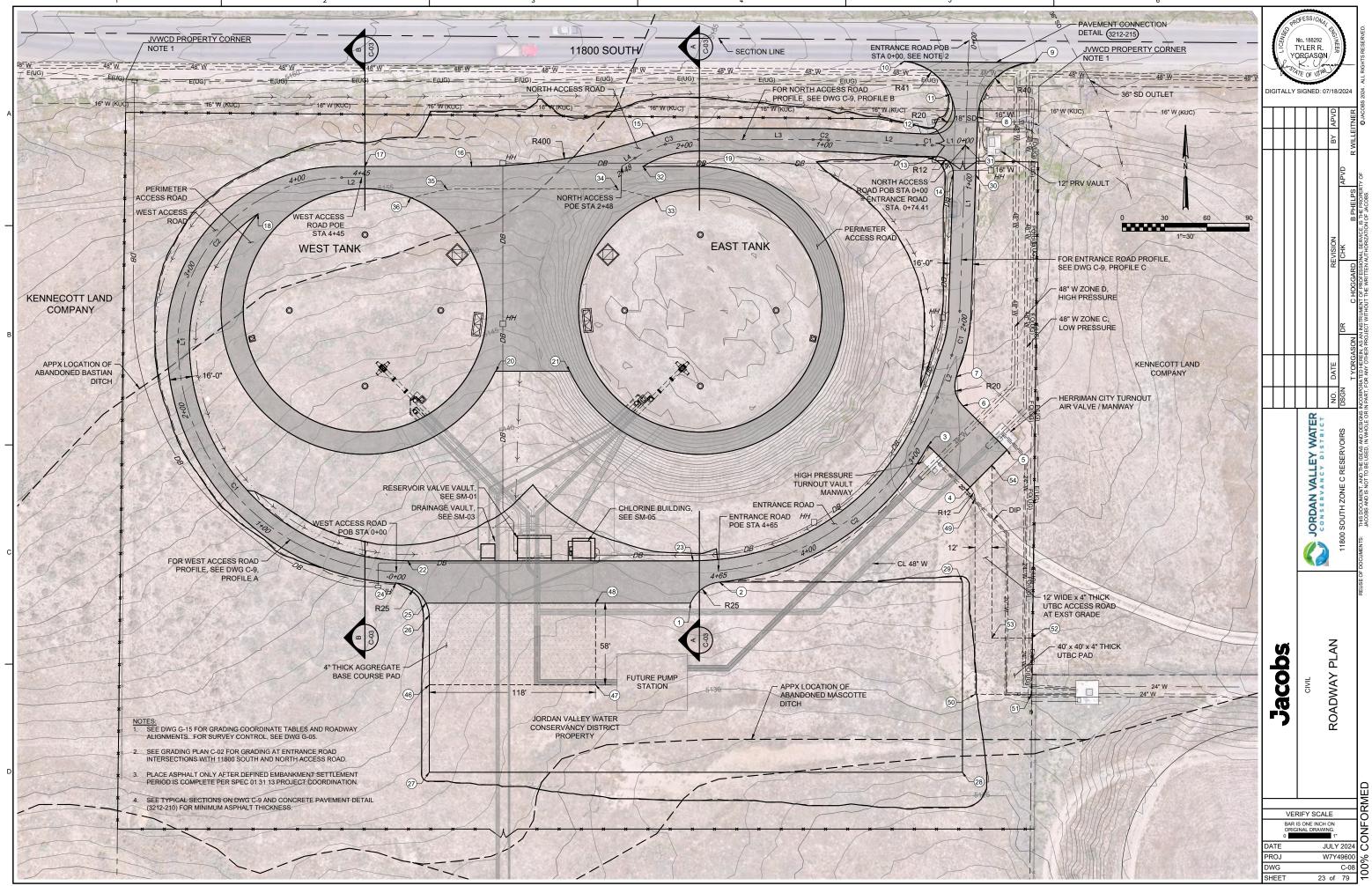
JORDAN VALLEY WATER GENERAL GRADING CROSS SECTIONS Jacobs CALE
NCH ON
LAWING.
JULY 2024
WINDLAGOOD VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. W7Y49600 C-03 18 of 79 DWG SHEET

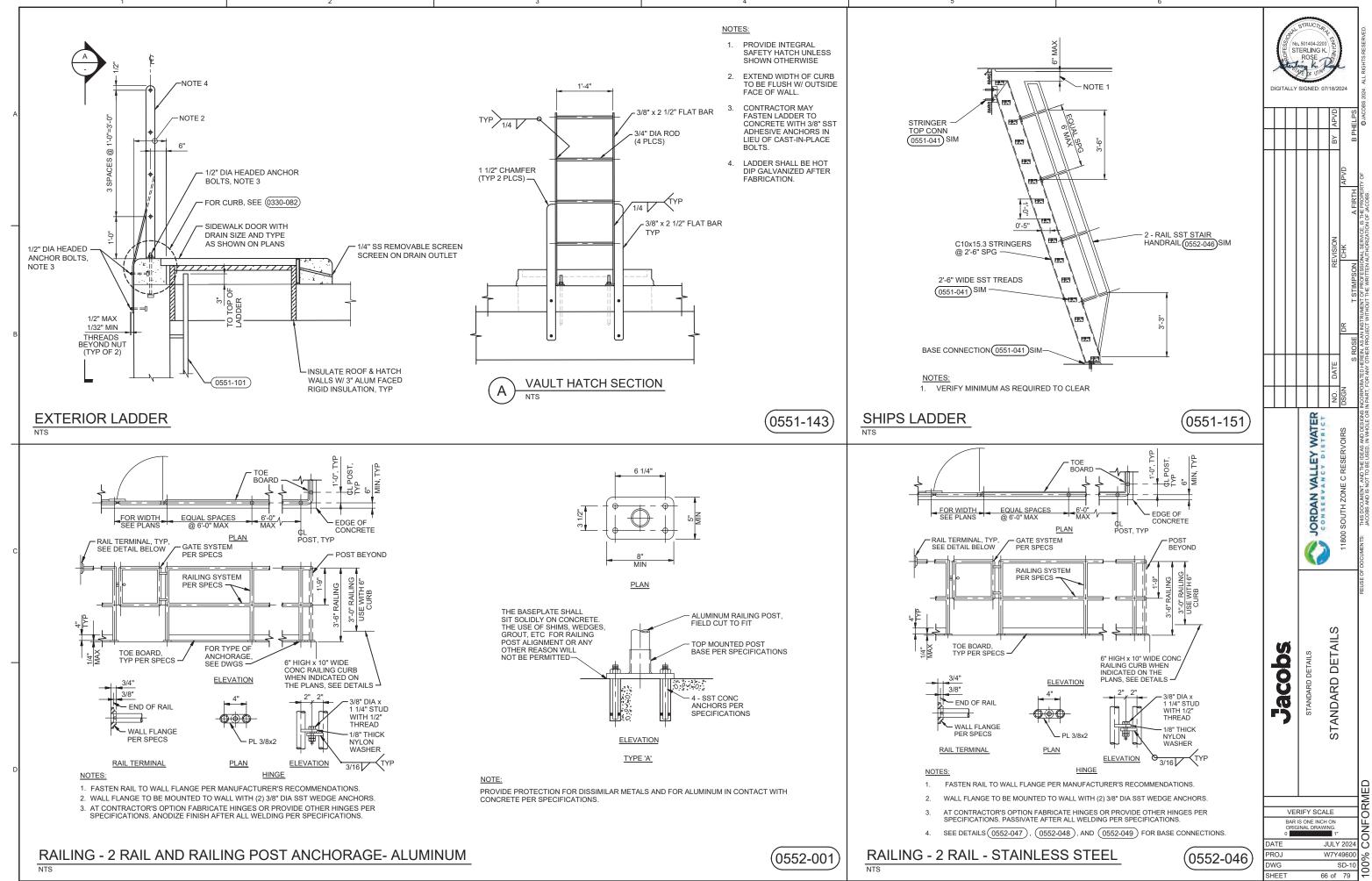




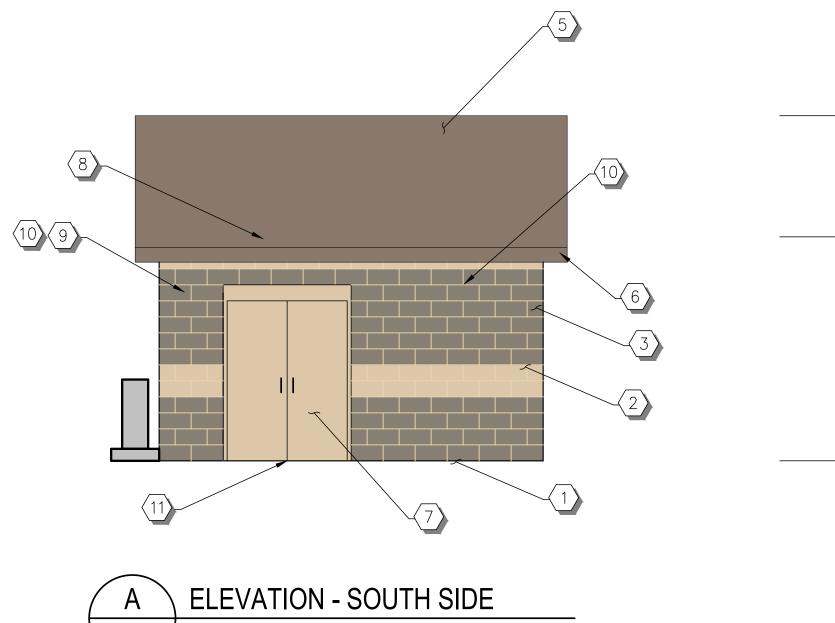


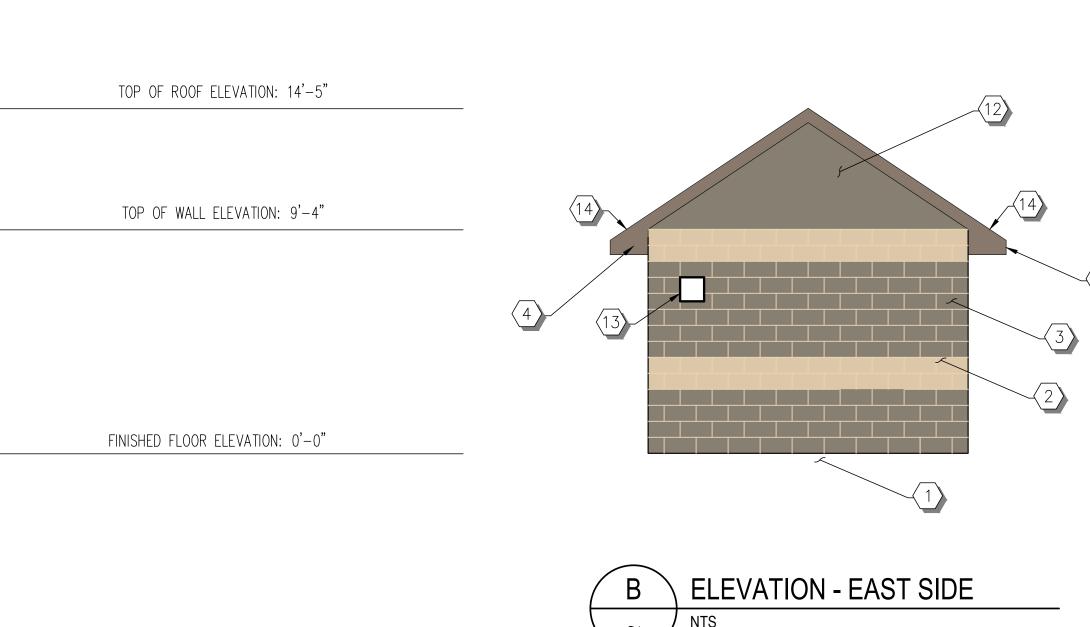


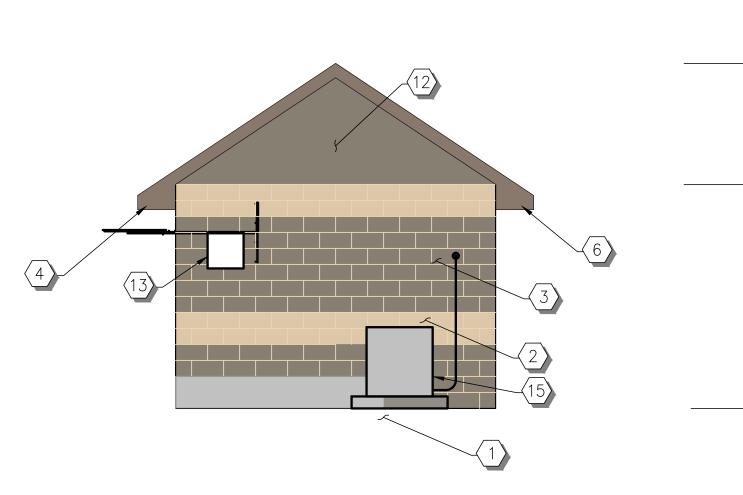




PLOT TIME: \$PLOTTIME







6





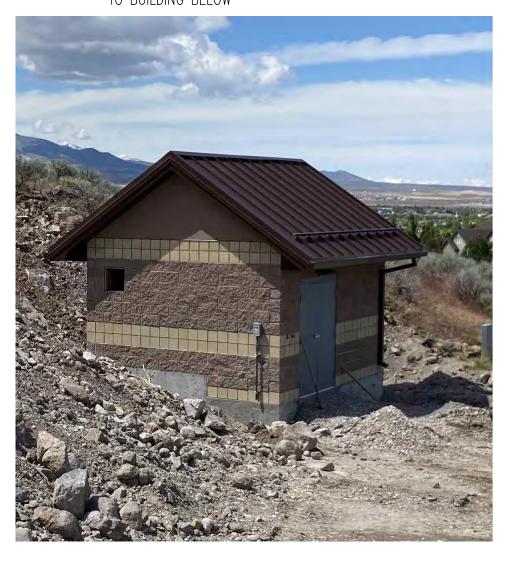
ARCHITECTURAL NOTES

- CONCRETE FOUNDATION WALL WITH WATER-PROOFING MEMBRANE (ECO BASE II OR EQUAL) PER STRUCTURAL
- 8X8X16 CENTER SCORE CMU. TAN COLOR PER COLOR SCHEME BELOW. PROVIDE CLEAR SURFACE WATER REPELLANT PER SPEC 07 19 00
- 8X8X16 SPLIT FACE CMU. BRICK COLOR PER COLOR SCHEME BELOW. PROVIDE CLEAR SURFACE WATER REPELLANT PER SPEC 07 19 00
- 4 SOFFIT TO MATCH ROOFING
- 5 ROOF ASSEMBLY



- 6 RAIN GUTTER AND DOWN SPOUT
- 7 5'-0" x 6'-8" DOUBLE DOOR A A A
- PROVIDE ICE AND WATER SHIELD AT ALL EAVES
 AND VALLEYS
- 9 EXTERIOR MOTION SENSORED FLOOD LIGHT
- WALL-PACK EXTERIOR LIGHTING, SHIELDED DOWNWARD
- 11) CONCRETE PAD IN FRONT OF DOOR. PER CIVIL
- STUCCO FINISH OVER PRE-FAB STRUSS
- (13) WALL VENT PER MECHANICAL AND ELECTRICAL
- 14) SNOW GAURD
- 15 HEAT PUMP

NOTES
1- COLOR SCHEME FOR ALL ITEMS CHOSEN BY DISTRICT. SIMILAR
TO BUILDING BELOW



E MATCH ROSECREST BOOSTER STATION STYLE

		REVISIONS			
ZONE	REV.	DESCRIPTION	BY	DATE	APP.





TOP OF ROOF ELEVATION: 14'-5"

TOP OF WALL ELEVATION: 9'-4"

FINISHED FLOOR ELEVATION: 0'-0"

design: EL	1/2/
drawing: EL	
REVIEW: SH	
approval: SH	
	$ $ \langle \rangle

JORDAN VALLEY WATER CONSERVANCY DISTRICT

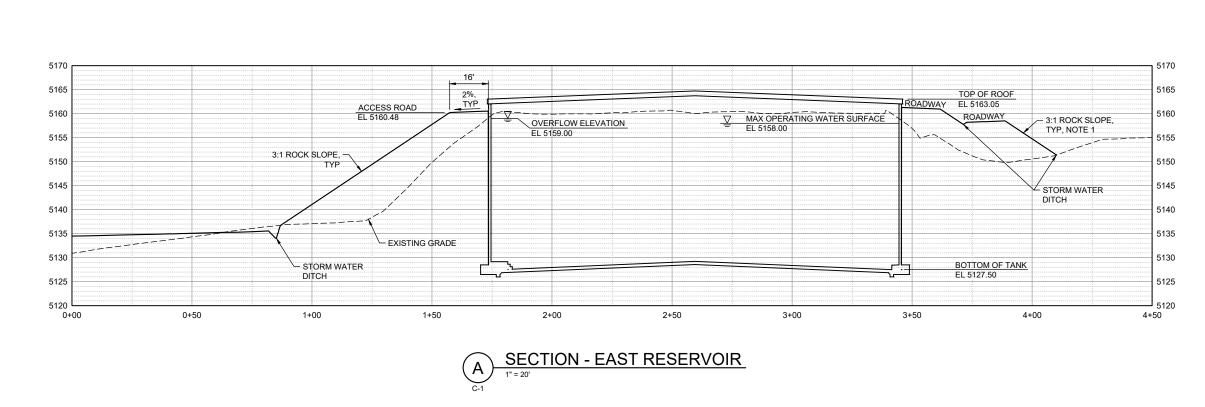
11800 SOUTH ZONE C RESERVOIRS

11800 SOUTH ZONE C RESERVOIRS

CHLORINE BUILDING

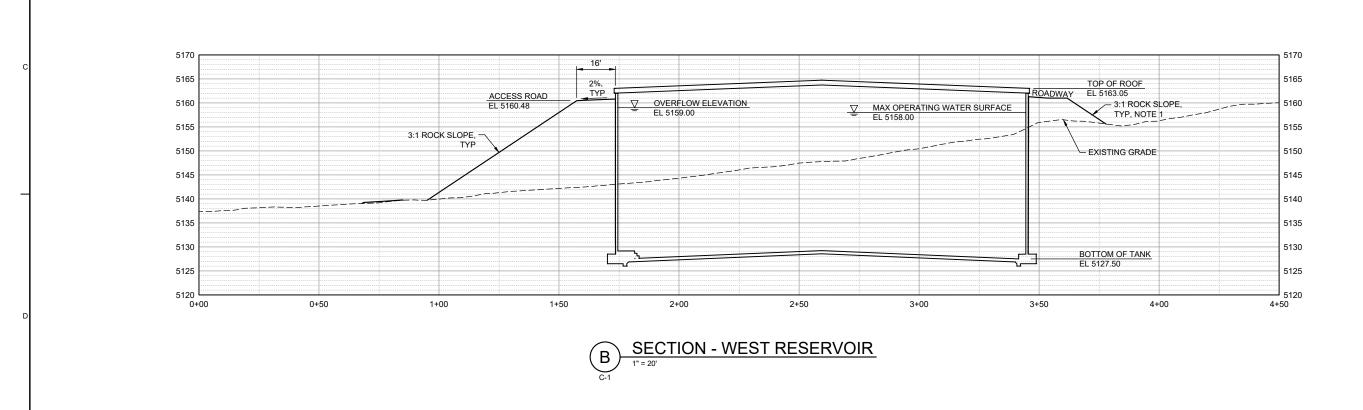
BUILDING ELEVATIONS

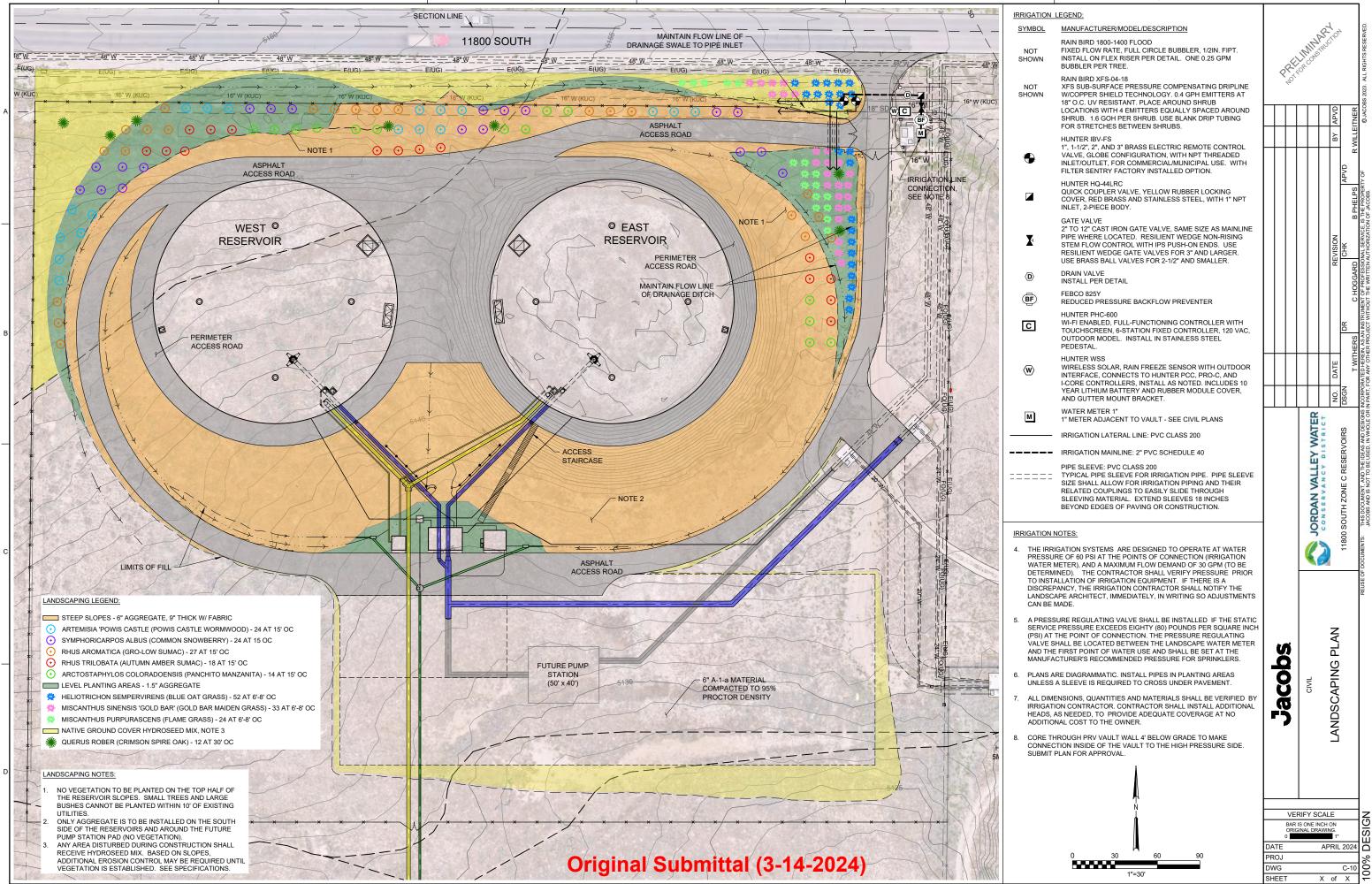
SCALE:
DATE
11/16/2023
PROJECT NUMBER
S10030
DRAWING NUMBER
A2
SHEET NUMBER
10 OF 43

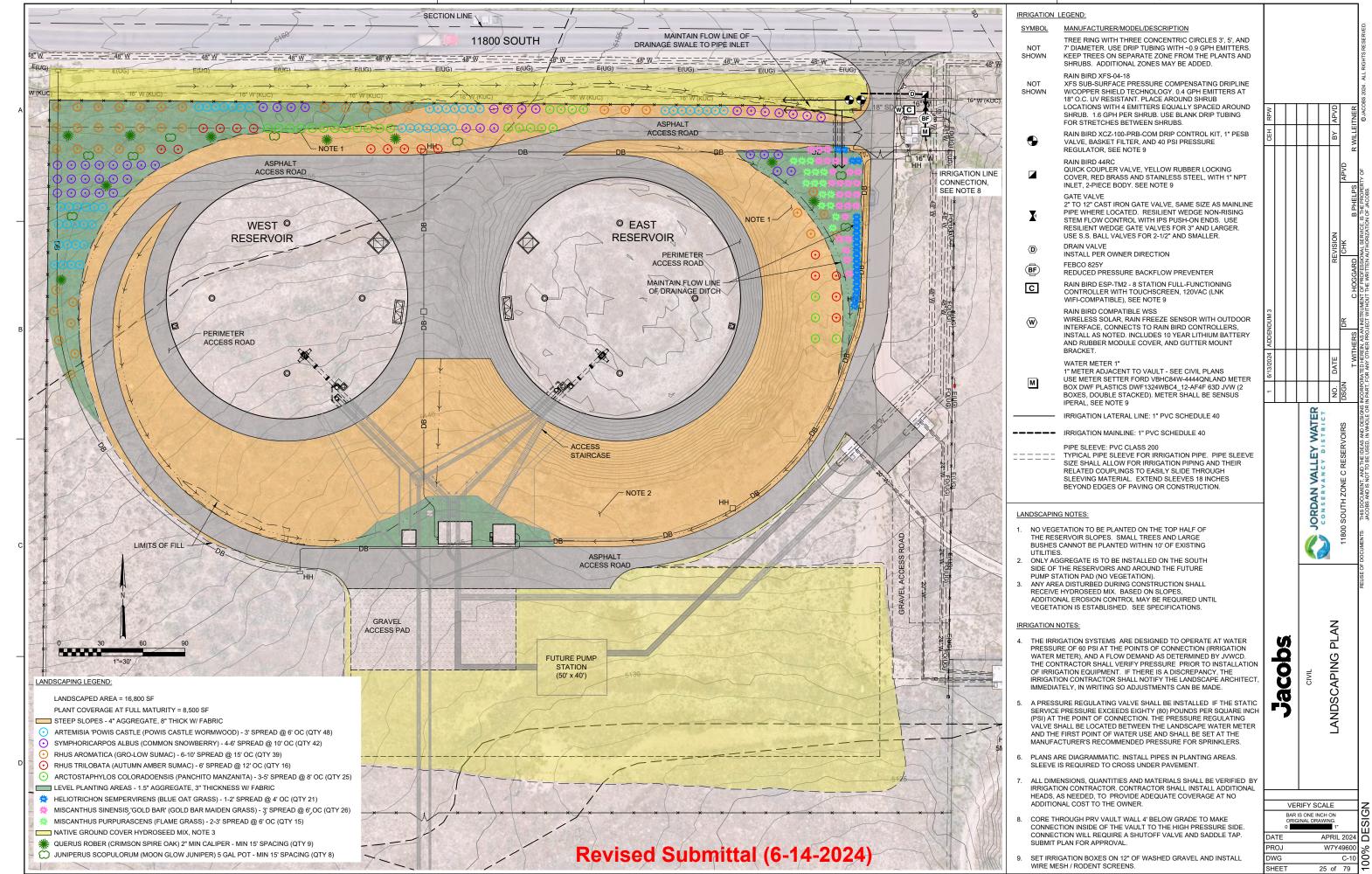


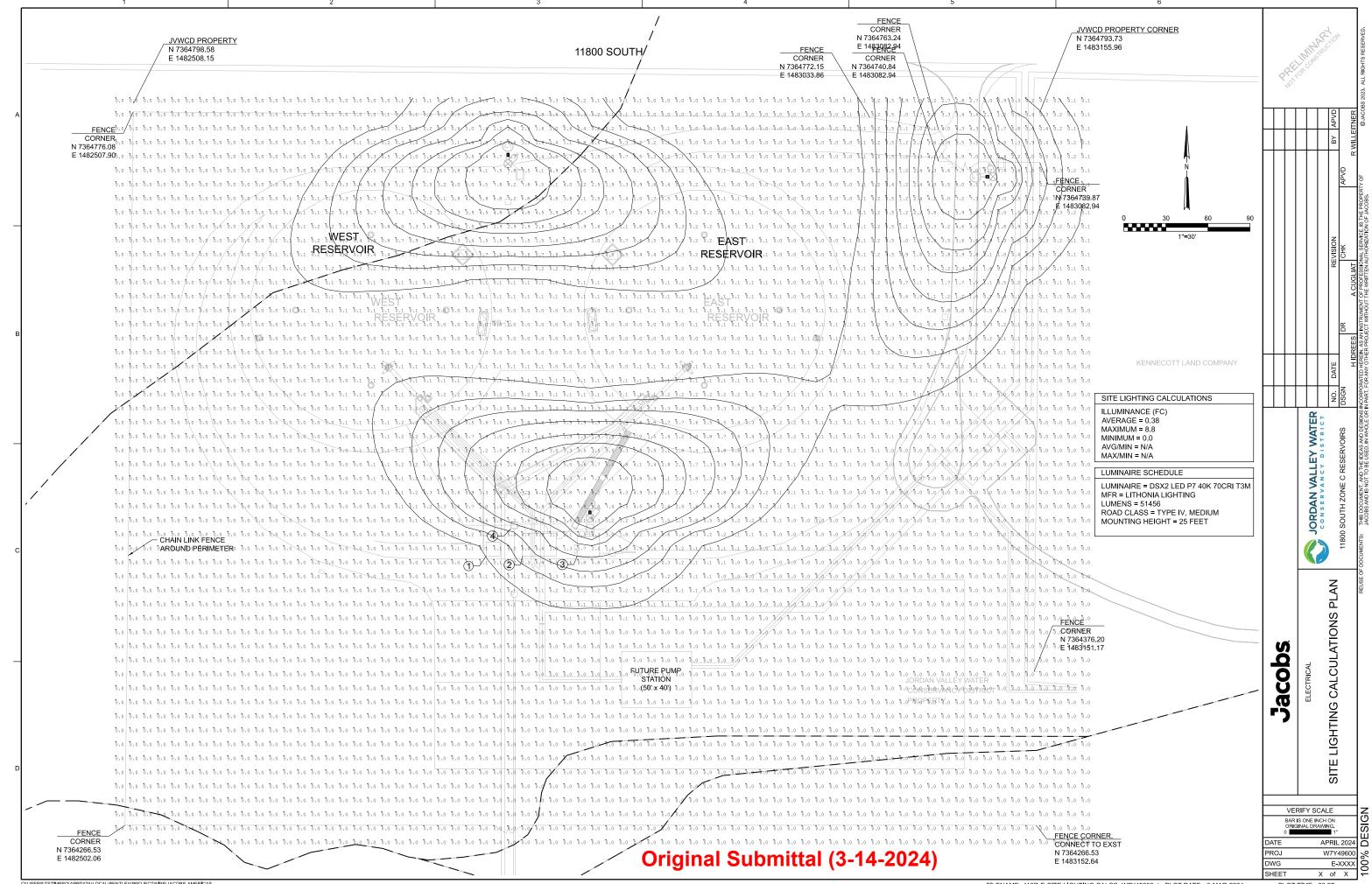
NOTES:

LANDSCAPE AND VEGETATE SLOPES PER DWG C-10
 AND SPECIFICATION SECTION 32 92 00.









FILENAME: 118R-E-SITE LIGHTING CALCS_W7Y49600.dw@LOT DATE: 8-MAR-2024

PLOT TIME: 08:27



D-Series LED Area Luminaires

Next Level Area Lighting Solutions

Revised Submittal to show fixture type (6-14-2024)





D-Series LED Area Luminaire Family

An unmatched combination of features, options, and performance to take your design to the next level.

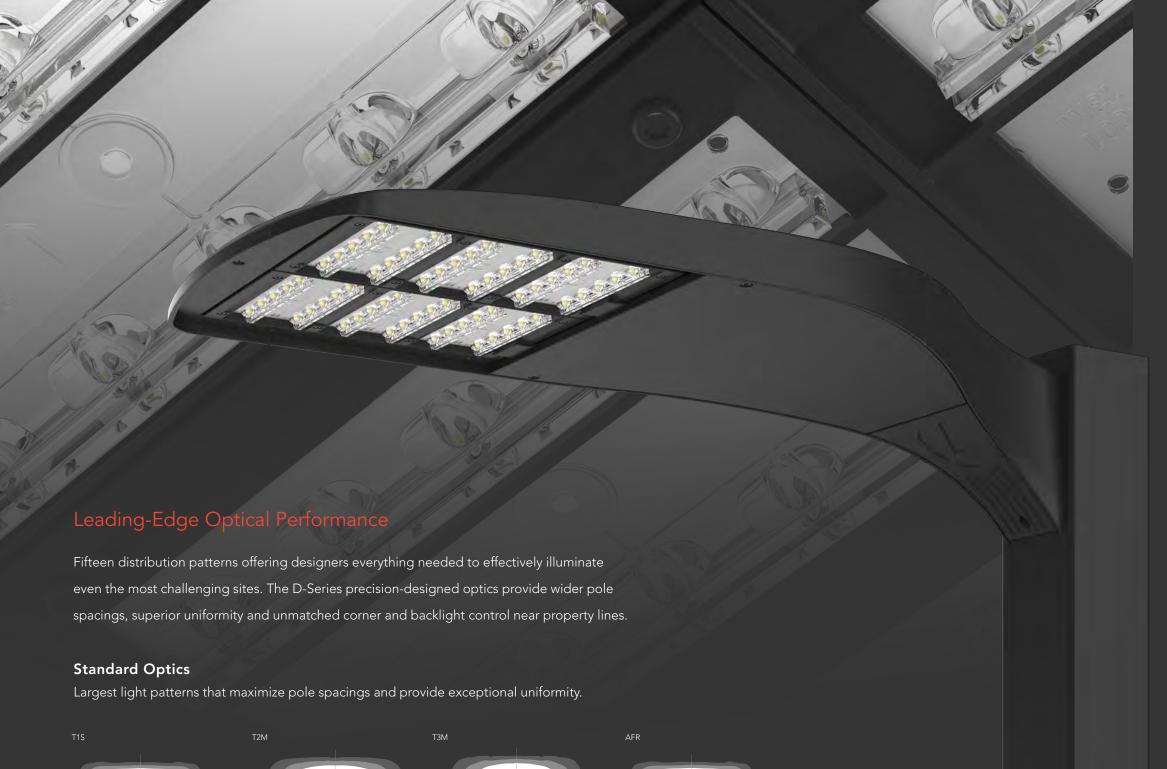
Available in three sizes with excellent scale to mounting height ratios, the D-Series family can meet the full range of application requirements and your projects most demanding needs.

A New Standard of Excellence and Performance

For over 10 years, the legacy D-Series family has been a favorite of industry professionals for use on exterior lighting projects. Now, the fully redesigned D-Series, is once again changing the game and bringing area lighting to a new level of excellence and performance.

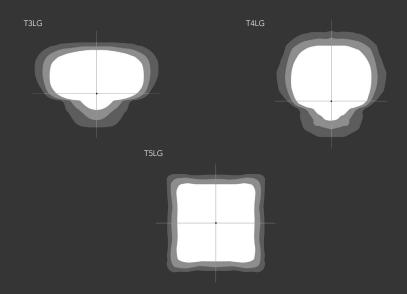
D-Series blends seamlessly into any environment with its continuous body design and combination of fully integrated nLight® AIR network controls to create a refined and contemporary look while providing the lumens you need.





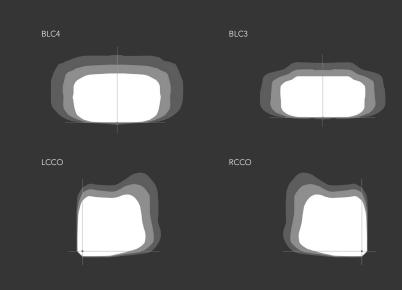
Low G Optics

Controls high angle light and maximizes lumens while maintaining a Low G in the BUG rating.



Backlight and Corner Control Optics

Unmatched corner and backlight control solutions for applications where precision control is required behind the pole, at property lines and perimeters.





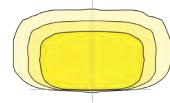
Backlight Control

The state-of-the-art BLC optics reduce light behind poles while providing excellent forward and lateral projection. Poles can be strategically placed near adjacent property or boundary lines while achieving optimal curb line results.

D-Series BLC Backlight Control Benefits

- As little as 0.5% of total light behind pole
- Shortest distance to zero foot-candles
- BUG B=0 with up to 43,000 lumens

BLC4



6 DSX LED Area Luminaires

Ultimate Configurability

Exterior lighting demands a product that can perform and be configured to exact needs.

The fully configurable D-Series provides the necessary standard features and a large breadth of key options allowing industry professionals to tailor their designs to the needs of the project.

Configurations

- Three sizes offering 5,000 to 60,000 lumens for front-to-back site design
- Fifteen photometric distributions provide solutions for a large array of standard and specialty applications
- Large range of standard CCT's available: 2700K/3000K/3500K/4000K/5000K
- Standard 70/80 CRI and optional 90 CRI
- Four standard colors with textured and non-textured finish and over 120 RAL colors and custom match options available

Features and Specialty Options

- Durable and long-lasting silicone lens is resistant to elements and will not yellow
- Integral arm universal mount option fits a range of pole drillings
- Optional added corrosion protection for applications in coastal areas
- Two amber LED solutions available including turtle-friendly
- Solar configurations offer ability to reduce carbon footprint and placement of luminaires in remote areas

Control Options

- NLTAIR2 PIRHN: nLight® AIR network based wireless controls offering group dimming
- PIR: Integral motion/ambient sensor
- DS: Dual switching provides luminaire wired with two circuits allowing for 50/50 operation
- BL30/BL50: Integral bi-level dimming device allows for a second circuit to switch the luminaire to either 30% or 50% light output
- FAO: Field adjustable output device allows dimming through an internal switch







nLight™

- Site-wide controls solution
- Motion sensing dusk-to-dawn photocontrol
- Wireless grouping
- Smart phone commissioning

8 DSX LED Area Luminaires





To learn more about D-Series Area Luminaires, visit www.LithoniaLighting.com









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