# **CONTRACT DOCUMENTS**

FOR THE CONSTRUCTION OF

# OGDEN CITY OGDEN AIRPORT WELL PROJECT

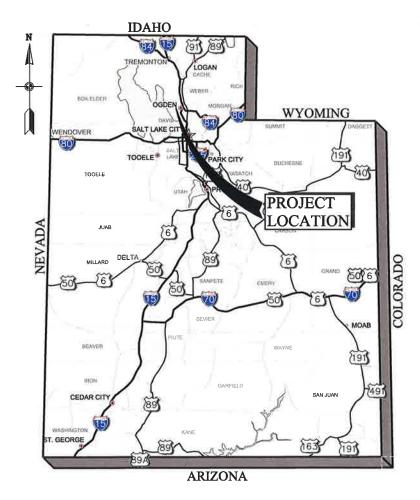
Volume 2 of 2 Drawings



Ogden City

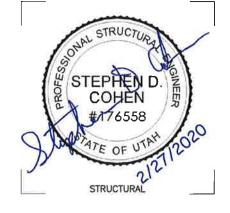


# DRAWINGS FOR CONSTRUCTION OF THE OGDEN AIRPORT WELL HOUSE PROJECT OGDEN CITY

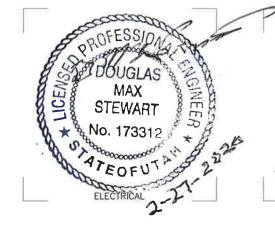


# PROJECT LOCATION MAP













PROJECT VICINITY MAP



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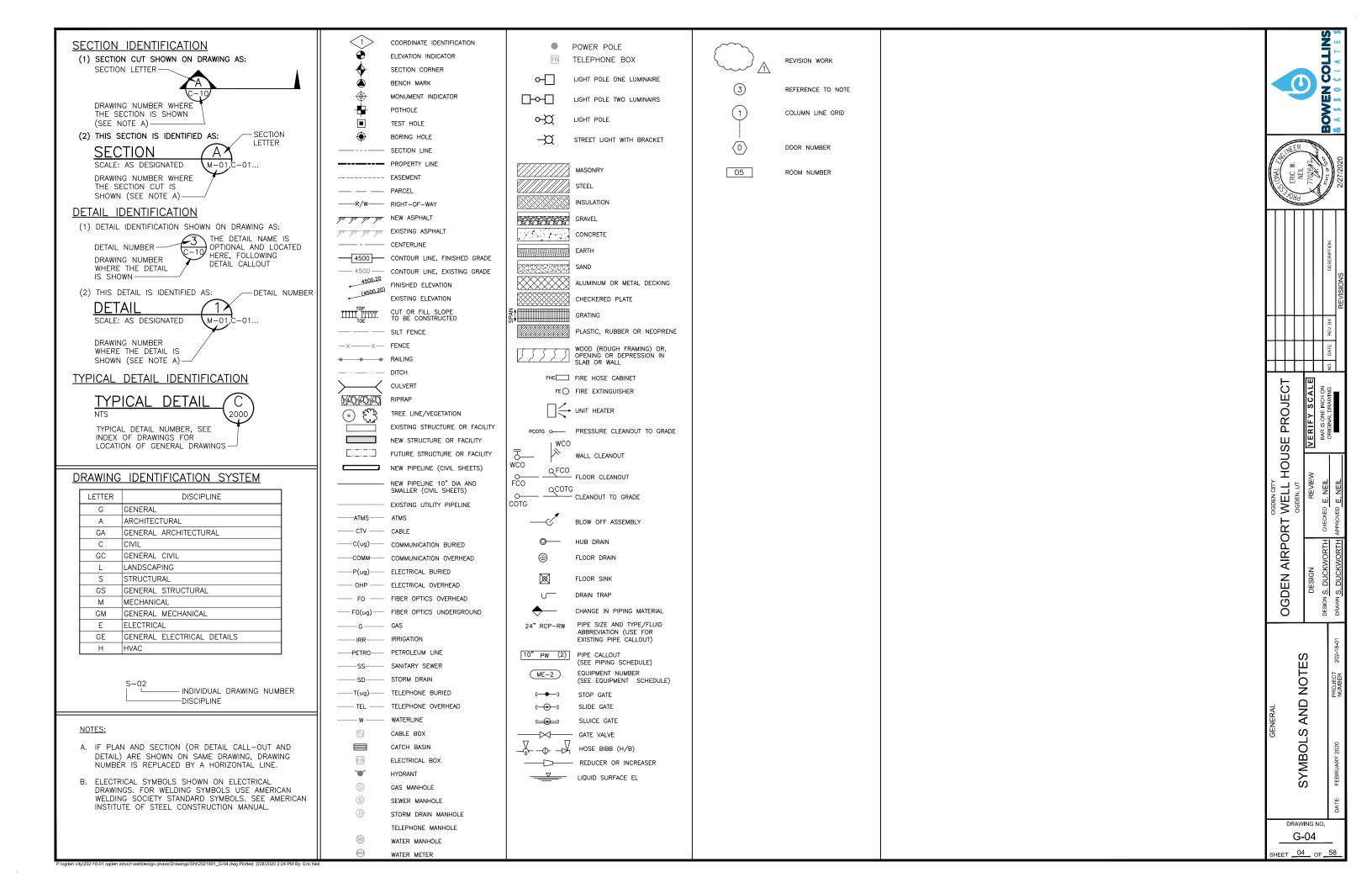
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<pre> @ AASHTO</pre>	AT AMERICAN ASSOCIATION OF STATE	CLR CLST	CLEAR, CLEARANCE CEMENT LINED STEEL PIPE	EQUIP ETC	EQUIPMENT ETCETERA	ICFM ID	INLET CUBIC FEET PER MINUTE INSIDE DIAMETER	NSF NTS	NATIONAL SCIENCE FOUNDATION NOT TO SCALE	SLP SP	SLOPE SPACING, STATIC PRESSURE		S	ш
	HIGHWAY TRANSPORTATION OFFICIALS	CLSM	CONTROLLED LOW STRENGTH MATERIAL	EUH	ELECTRIC UNIT HEATER	IE	INVERT ELEVATION	NW	NORTHWEST	SPA	SPACED			$\vdash$
AB ABBR	ANCHOR BOLT ABBREVIATION	CM	CENTIMETER	EVAP	EVAPORATOR	IF.	INSIDE FACE			SPEC	SPECIFIED, SPECIFICATION			~
ABS	ACRYLONITRILE-BUTADIENE-STYRENE	CML & C CMP	CEMENT MORTAR LINED AND COATED CORRUGATED METAL PIPE	EVC EVCE	END VERTICAL CURVE END VERTICAL CURVE ELEVATION	IN LB	INCH INCH-POUND	о то о	OUT TO OUT	SPECS SPG	SPECIFICATIONS SPACING		Ö	1-
AC	ASPHALTIC CONCRETE OR ALTERNATING CURRENT OR ACTIVATED CARBON	СМИ	CONCRETE MASONRY UNIT	EVCS	END VERTICAL CURVE STATION	INFL	INFLUENT	ОС	ON CENTER, OVER-CROSSING	SPKR	SPEAKER		19) z	0
ACI	AMERICAN CONCRETE INSTITUTE	CO COL	CLEANOUT COLUMN	EW EXH	EACH WAY, EYE WASH EXHAUST	INSUL INVT	INSULATING INVERT	OD OF	OUTSIDE DIAMETER, OVERALL DIMENSION OUTSIDE FACE, OVERFLOW	SPLY	SUPPLY		m.	100
ACP ADDL	ASPHALTIC CONCRETE PAVEMENT ADDITIONAL	COMM	COMMUNICATION	EXIST	EXISTING	IOB	INLET OUTLET BYPASS	OFS	OVERFLOW STRUCTURE	SPRT SQ	SUPPORT SQUARE		8	-
ADJ	ADJACENT OR ADJUSTABLE	COMB CONC	COMBINED	EXP ANR	EXPANSION BOLT, ANCHOR	IPS IRR	IRON PIPE SIZE IRRIGATION	OH OPER	OVERHEAD OPERATOR, OPERATING	SQ FT	SQUARE FOOT		8	
AER AFF	AERATION	CONC	CONCRETE, CONCENTRIC CONDENSER, CONDENSATE	EXP JT EXT	EXPANSION JOINT EXTERIOR, EXTENSION, EXTERNAL	IKK	IRRIGATION	OPER	OPENING	SR SS	SUPPLY REGISTER SANITARY SEWER, SERVICE SINK			
AGGR	ABOVE FINISH FLOOR AGGREGATE	CONN	CONNECTION					OPP	OPPOSITE	SST	STAINLESS STEEL		MEER	
AH	AIR HANDLER	CONST CONT	CONSTRUCTION, CONSTRUCT CONTINUED, CONTINUOUS, CONTINUATION	F	FAHRENHEIT, FACE	JT	JOINT	ORIG OVHD	ORIGINAL OVERHEAD	STA	STATION	19	= 1/2"	<b>1</b> 8 <b>1</b> 8 <b>1</b> 8
AIR CONT AISC	AIR CONDITIONING AMERICAN INSTITUTE OF STEEL	COORD	COORDINATE	F TO F	FACE TO FACE	JTS	JOINTS	OZ	OUNCE	STD STIFF	STANDARD STIFFENER	(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		27.2
AL	CONSTRUCTION	COP COTG	COPPER CLEAN-OUT TO GRADE	FAB	FABRICATION, FABRICATE, OR FABRICATED					STL	STEEL	1/3/		18
AL ALTN	ALUMINUM, ALUM ALTERNATIVE, ALTERNATE	CPLG	COUPLING	FB	FLAT BAR			PC	PORTLAND CEMENT, POINT OF CURVE	STRL SUC	STRUCTURAL STRUCTURAL UNDERDRAIN COLLECTOR		3089	
ANOD	ANODIZED	CPS CPVC	CULINARY PUMP STATION	FC FCA	FLEXIBLE COUPLING FLANGE COUPLING ADAPTER	k	KELVIN, KILO OR THOUSAND POUNDS		OR PRIMARY CLARIFIER	SYM	SYMBOL	HI	ППП	$\Box$
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	CPVC	CHLORINATED POLYVINYL CHLORIDE CAST STEEL OR CAUSTIC SODA	FCO	FLOOR CLEANOUT	KG	KILOGRAM	PCC PCF	PORTLAND CEMENT CONCRETE POUNDS PER CUBIC FOOT	SYMM SYS	SYMMETRICAL SYSTEM			
APPROX	APPROXIMATE	CTRD	CENTERED	FD FDN	FLOOR DRAIN FOUNDATION	KV KW	KILOVOLT KILOWATT	PE	PLAIN END, POLYELECTROLYTE POLYMER,	313	SISIEM			,
APVD ARCH	APPROVED ARCHITECTURAL	CTR CTSK	CENTER COUNTERSUNK	FDR	FEEDER	KWH	KILOWATT HOUR	PG	POLYETHYLENE PRESSURE GAUGE				I I	4
ARV	AIR RELEASE VALVE	CU FT	CUBIC FOOT	FEXT	FIRE EXTINGUISHER			На	HYDROGEN ION CONCENTRATION	Т	THICKNESS, TOP, TOILET			į
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	CU IN CU YD	CUBIC INCH CUBIC YARD	FF FG	FLAT FACE, FAR FACE, FINISH FLOOR FINISH GRADE. FLOW GLASS	L	LEFT OR LITER	PI	PLANT INFLUENT, POINT OF	T&B	TOP AND BOTTOM			Ş
ASTM	AMERICAN SOCIETY FOR TESTING AND	CULV	CULVERT	FH	FIRE HYDRANT	LAB	LABORATORY	PJF	INTERSECTION PREMOLDED JOINT FILLER	T&G TAN	TONGUE AND GROOVE TANGENT			SION
ASSY	MATERIAL ASSEMBLY	CV	CHECK VALVE	FLR FL	FLOOR FLOW LINE	LAV LB	LAVATORY POUND	PJF	PLATE, PROPERTY LINE, PLACE	TBC	TOP BACK OF CURB			ËVI
AUTO	AUTOMATIC	CWO	COLD WATER CHAIN WHEEL OPERATOR	FLEX	FLEXIBLE	LC	LENGTH OF CURVE	PLYWD	PLYWOOD	ТВМ	TEMPORARY BENCH MARK		$\Box$	_ ~
AUX AVAR	AUXILIARY AIR VACUUM AND AIR RELEASE VALVE	CYL	CYLINDER	FLG	FLANGE	LF LC	LINEAR FEET	PM POB	PUMP, PROPELLER METER POINT OF BEGINNING	TDH TECH	TOTAL DYNAMIC HEAD TECHNICAL			<u>;</u>
AWS	AMERICAN WELDING SOCIETY			FM FND	FORCE MAIN (SANITARY SEWER) FOUND	LH	LENGTH OR LONG LEFT HAND	PP	POTASSIUM PERMANGANATE	TEL	TELEPHONE			_
AWWA	AMERICAN WATER WORKS ASSOCIATION	d	PENNY	FNSH	FINISH	LIP	LIP OF GUTTER	PPD PPH	POUNDS PER DAY	TEMP THK	TEMPERATURE, TEMPORARY THICK			į
		DBA	DEFORMED ANCHOR	FO FRP	FIBER OPTIC FIBERGLASS REINFORCED PLASTIC	LLV	LIVE LOAD LONG LEG VERTICAL	PPH	POUNDS PER HOUR PARTS PER MILLION	THR'D	THREADED	H	<del></del>	_
B & S BC	BELL & SPIGOT BEGIN CURVE, BOLT CIRCLE	DBL DC	DOUBLE DIRECT CURRENT	FW	FINISH WATER	LOL	LENGTH OF LINE	PR	PAIR	TK TO	TANK TOP OF	Щ		
BF	BLIND FLANGE, BUTTERFLY VALVE	DEG	DEGREE	FWR	FINISH WATER RESERVOIR	LP LB	LOW POINT LONG RADIUS	PRC PREFAB	POINT OF REVERSE CURVE PREFABRICATED	TOC	TOP OF CONCRETE			ر
BFG	BELOW FINISH GRADE	DEMO DEQ	DEMOLITION, DEMOLISH DEPARTMENT OF ENVIRONMENTAL			LT	LIGHT, LEFT	PREFAB	PRIMARY	TOG	TOP OF GRADE	Ш	ച ∥വ ∄ ≩	
BFP BFV	BACK FLOW PREVENTER BUTTERFLY VALVE		QUALITY	G	GAS	LV	LOUVER	PRV	PRESSURE REGULATING/REDUCING	TP TW	TELEPHONE POLE, TURNING POINT TOP OF WALL			ا ا
BHD	BULKHEAD	DET DI	DETAIL DUCTILE IRON, DROP INLET	GA GAL	GAGE, GAUGE GALLON	LVL LWL	LEVEL LOW WATER LEVEL	PS	VALVE PRESSURE SWITCH, PUMP STATION	TYP	TYPICAL	ļģ	T ENSURE SERVICE OF THE PERSON AND T	<u>:</u>
BHP BLDG	BRAKE HORSEPOWER BUILDING	DIA	DIAMETER	GALV	GALVANIZED	LWR	LOWER	PSF	POUNDS PER SQUARE FOOT				11	. <b>–</b>
BLK	BLACK OR BLOCK	DIAG DIAPH	DIAGONAL DIAPHRAGM	GEN GFI	GENERATOR			PSI PSIG	POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GAUGE	UBC	UNIFORM BUILDING CODE	Ū	75  P	
BLKG	BLOCKING	DIFF	DIFFUSER	GI	GROUND FAULT INTERRUPTER GALVANIZED IRON	М	METER, MALE (PIPE THREAD)	PT	POINT OF TANGENT, PRESSURE TREATED	UD	UNDERDRAIN	=	HOU "W ERS	П
BLT BM	BOLT BEAM. BENCH MARK	DIM	DIMENSION	GIS	GEOGRAPHIC INFORMATION SYSTEM	MACH	MACHINE	PTDF	PRESSURE TREATED DOUGLAS FIR	UG UH	UNDERGROUND UNIT HEATER	1 5	구   <sup>&gt;</sup> Si	.
BO	BLOW-OFF ASSEMBLY, BLOW-OFF	DIP DIR	DUCTILE IRON PIPE DIRECTION	GL GLAZ	GLASS GLAZING	MAN MATL	MAGNETIC, MANUAL MATERIAL	PV PVC	PAVEMENT POLYVINYL CHLORIDE	UL	UNDERWRITERS LABORATORIES	<u></u> ⊢	- 5 S	ᇜ
BOT BPS	BOTTOM BOOSTER PUMPING STATION	DISCH	DISCHARGE	GLV	GLOBE VALVE	MAX	MAXIMUM	PVI	POINT OF VERTICAL INTERSECTION	UNO USBR	UNLESS OTHERWISE NOTED U.S. BUREAU OF RECLAMATION		H RE SEN	Z
BPV	BACK PRESSURE VALVE	DIST DIV	DISTANCE DIVISION	GND GPD	GROUND GALLONS PER DAY	MB MCC	MACHINE BOLT MOTOR CONTROL CENTER	PW	POTABLE WATER	OSBIX	C.S. BONEAU OF REGEARMATION	960	≥ 19   3	
BRK BTU	BRICK BRITISH THERMAL UNIT	D-LOAD	LOADING CONDITION FOR RCP	GPH	GALLONS PER HOUR	MECH	MECHANICAL, MECHANISM			V	VALVE, VENT, VOLT, VACUUM		_   Š	NOV.
BTWN	BETWEEN	DMPR DN	DAMPER DOWN, DECANT	GPM	GALLONS PER MINUTE	MEMB MET	MEMBRANE METAL	RA	RETURN AIR	V VAR	VARIES, OR VARIABLE	2	¥   <sup>™</sup>	APF
BUR	BUILT-UP ROOFING BEGIN VERTICAL CURVE	DOT	DEPARTMENT OF TRANSPORTATION	GR GR BRK	GRADE GRADE BREAK, GRADE CHANGE	MFR	MANUFACTURER	RAD RC	RADIUS REINFORCED CONCRETE	VC	VERTICAL CURVE	٥	<u>i</u>   '	.
BVC BVCE	BEGIN VERTICAL CURVE  BEGIN VERTICAL CURVE ELEVATION	DP DR	DAMP PROOFING	GRTG	GRATING	MG	MILLION GALLONS	RCP	REINFORCED CONCRETE PIPE	VCP VERT	VITRIFIED CLAY PIPE VERTICAL	1 9	지   <sup>2</sup>	SS
BVCS	BEGIN VERTICAL CURVE STATION	DK DS	DOOR, DRAIN DRENCH SHOWER & EYE WASH.	GRV GSP	GROOVED GALVANIZED STEEL PIPE	MGD MH	MILLION GALLONS PER DAY MANHOLE, MONORAIL HOIST	RD RDCR	ROOF DRAIN OR ROAD	VIC	VICTAULIC COUPLING			GE
BW	BACK WASH, FILTER BACKWASH	DWG	DOWNSPOUT DRAWING	GV	GATE VALVE	MI	MALLEABLE IRON	RECIRC	REDUCER, REDUCING RECIRCULATION	VOL VPI	VOLUME VERTICAL POINT OF INFLECTION		DESIGNET NEIL	쮼
		DWL	DOWEL	GYP	GYPSUM BOARD	MID MIL	MIDDLE	RED	REDUCING	VSS	VOLATILE SUSPENDED SOLIDS		送   - 🏭	Z Z
C CAB	CENTIGRADE OR CELSIUS CABINET					MIN	1/1,000 INCH MINIMUM OR MINUTE	REF REG	REFERENCE, REFER REGULATING, REGISTER	VTC VTR	VENT THROUGH CEILING VENT THROUGH ROOF			JRAV.
CAP	CAPACITY	E(UG)	ELECTRICAL (UNDERGROUND)	H	HEIGHT HEADED ANCHOR STUD	MISC	MISCELLANEOUS	REINF	REINFORCE, REINFORCED	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	VENT THROUGH NOOF	$\vdash$		_
CARV CB	COMBINATION AIR RELEASE VALVE CATCH BASIN	E(OH)	ELECTRICAL (OVERHEAD POWER)	HAS HB	HEADED ANCHOR STUD HOSE BIBB	MJ MO	MECHANICAL JOINT MASONRY OPENING	REQD	REQUIRED	l	WEST WASTE WAS STOLEN			_
CC	CENTER TO CENTER	E EA	EAST EACH	HD	HUB DRAIN	MPH	MILES PER HOUR	REV RF	REVISION ROOF, RAISED FACE	w w/	WEST, WASTE, WIDE FLANGE (BEAM) WITH		ļ	18-0
CCP	CONCRETE CYLINDER PIPE	EB	EXPANSION BOLT	HDPE HDR	HIGH DENSITY POLYETHYLENE HEADER	MTG MTL	MOUNTING METAL OR MATERIAL	RND	ROUND	w/o	WITHOUT			202
CD	CEILING DIFFUSER CHEMICAL DRAIN AND VENT	EC	END CURVE	HDW	HARDWARE	MTR	MOTOR	RPM RP	REVOLUTIONS PER MINUTE RADIUS POINT	wC	WATER COLUMN OR WATER CLOSET		တ	54
CER CFH	CERAMIC CUBIC FEET PER HOUR	ECC EF	ECCENTRIC EACH FACE, EXHAUST FAN	HEX HGR	HEXAGONAL HANGER	MWS	MAXIMUM WATER SURFACE	RS	RAW SEWAGE	WCO WD	WALL CLEANOUT WOOD			OJE( MBE.
CFM	CUBIC FEET PER HOUR  CUBIC FEET PER MINUTE	EFF	EFFLUENT	НМ	HOLLOW METAL			RST	REINFORCING STEEL, RESET	WH	WATER HEATER		BBREVIATION	RS
CFR	CODE OF FEDERAL REGULATIONS	EG EL	EXISTING GRADE ELEVATION	HORIZ	HORIZONTAL	N NAV/D	NORTH AMERICAN MERTICAL PATUM	RT	REGULATING TANK, RADIOGRAPHIC, RIGHT	WS WSP	WATER STOP, WATER SURFACE WELDED STEEL PIPE	ζĄΓ	<b>├</b>	- 1
CFS CG	CUBIC FEET PER SECOND CHLORINE GAS	ELB	ELBOW	HP	HORSEPOWER, HIGH PRESSURE,HEAT PUMP, HIGH POINT	NAVD NBS	NORTH AMERICAN VERTICAL DATUM NATIONAL BUREAU OF STANDARDS	RV	ROOF VENT	WSTP	WATER STOP	ЕË	<del>     </del>	ŀ
CGB	CORD GRIP BUSHING	ELEV ELEC	ELEVATION ELECTRICAL. ELECTRONIC	HR HS	HEATING RETURN, HOUR, HOSE RACK HIGH STRENGTH	NC	NORMALLY CLOSED	R/W RW	RIGHT OF WAY RAW WATER	WT WWM	WEIGHT WELDED WIRE MESH	GEI	ا بيَ	ŀ
CHBD CHEM	CHALKBOARD CHEMICAL	EMB	EMBEDMENT	HSS HSS	HIGH STRENGTH HOLLOW STRUCTURAL SECTION	NE NEC	NORTHEAST NATIONAL ELECTRIC CODE	I		VV VV IVI	WELDED WINE MESH		뽔	020
CHG	CHANGE	EMER	EMERGENCY	HTG	HEATING	NEMA	NATIONAL ELECTRICAL MANUFACTURES		SOLITH SECOND	VIVED	TDANCEODMES		剪丨	RY 2
CHKD PL	CHECKERED PLATE	ENCL ENG	ENCLOSURE ENGINE	HTR HV	HEATER HOSE VALVE	NF	ASSOCIATION NEAR FACE	SA	SOUTH, SECOND SAMPLE, SAMPLE LINE, SUPPLY AIR	XMFR XMTR	TRANSFORMER TRANSMITTER		⋖	RUA
CIP	CAST IRON CAST IRON PIPE	ENGR	ENGINEER	HVAC	HEATING, VENTILATING AND AIR	NFPA	NATIONAL FIRE PROTECTION	SCFM	STANDARD CUBIC FEET PER MINUTE	XS	EXTRA STRONG			EB.
CISP	CAST IRON SOIL PIPE	EOP EPDM	EDGE OF PAVEMENT ETHYL PROPYLENE DIENE MONOMER	HWL	CONDITIONING HIGH WATER LEVEL	NIC	ASSOCIATION NOT IN CONTRACT	SCH	SCHEDULE STORM DRAIN				ļ	ii l
CJP	CONSTRUCTION JOINT COMPLETE JOINT PENETRATION	EPDM	EXPANDED POLYSTYRENE	HWO	HANDWHEEL OPERATED	NO	NUMBER OR NORMALLY OPEN	SD SECT	STORM DRAIN SECTION	YD	YARD		ļ	DATE
CL	CHLORINATOR, CHAIN LINK, CENTERLINE	EQ	EQUAL	HYD	HYDRANT, HYDRAULIC	NOM NPT	NOMINAL NATIONAL PIPE THREAD	SHT	SHEET	YP YR	YARD PIPING	-	DRAWING NO.	$\dashv$
	OR CHLORINE	EQL SP	EQUALLY SPACED			NS	NEAR SIDE	SIM	SIMILAR	I IK	YEAR		G-03	•
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	01 ogden airport welfidesign phase\Drawings\Sht\2021801_G-03.dwg Plotted:	2/28/2020 2:24 DM 2:	Fric Nail	<u> </u>				<u> </u>		<u> </u>		SHEE	ET <u>03</u> OF 5	<u>,o</u>
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# GENERAL NOTES

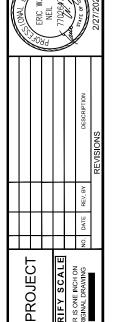
- SYMBOLS FOR STRUCTURES, PIPE AND ETC. USED FOR IDENTIFICATION ARE SHOWN IN LEGENDS AND SHALL BE FOLLOWED THROUGHOUT THE PLANS WHENEVER APPLICABLE. NOT ALL OF THE VARIOUS COMPONENTS SHOWN IN THESE LEGENDS ARE NECESSARILY USED IN THE PROJECT.
- SCALE OF THE DRAWINGS OR DETAILS ARE SHOWN IN TITLE BLOCK OR DIRECTLY UNDER THE PLAN OR DETAIL. THE SIZE OF THE ORIGINAL PLOTTED DRAWINGS IS 22"X34". CARE SHOULD BE TAKEN TO VERIFY THE SCALE BAR IN THE TITLE BLOCK AREA TO DETERMINE THE SCALE OF REDUCED REPRODUCTIONS.
- 3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PERFORM CONSTRUCTION ACTIVITIES PER THE CONTRACT DOCUMENTS. ANY ADDITIONS, DELETIONS, OR MODIFICATIONS SHALL FIRST MEET WITH THE WRITTEN APPROVAL OF THE ENGINEER AND THE OWNER.
- 4. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMIT(S) AND COMPLY WITH ALL REQUIREMENTS OF GOVERNING AGENCIES.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT TRAFFIC CONTROL PLANS FOR REVIEW AND APPROVAL BY OGDEN CITY AND UDOT. WORK WILL NOT BEGIN UNTIL THE PLANS HAVE BEEN APPROVED.
- 6. THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE ESTABLISHED RIGHTS-OF-WAY. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, VEHICLES AND EQUIPMENT, LIMITS OF TRENCH EXCAVATION, AND EXCAVATED MATERIAL AND BACKFILL STORAGE. IF THE CONTRACTOR REQUIRES ADDITIONAL CONSTRUCTION EASEMENTS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SUCH EASEMENTS FROM INDIVIDUAL PROPERTY OWNERS.
- 7. UTILITY LOCATIONS:
  - CONTRACTOR SHALL CONTACT BLUE STAKES TO LOCATE EXISTING UTILITIES.
  - ALL UTILITY LOCATIONS, SHOWN ON DRAWINGS, ARE APPROXIMATE AND ARE NOT INCLUSIVE OF ALL EXISTING UTILITIES.
  - CONTRACTOR TO VERIFY DEPTHS OF UTILITIES IN THE FIELD BY POT HOLING A MINIMUM OF TWO WEEKS TIME AHEAD OF PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNED PIPELINE GRADE AND ALIGNMENT. IF A CONFLICT ARISES RESULTING FROM THE CONTRACTOR NEGLECTING TO POT HOLE UTILITIES, THE CONTRACTOR TO RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO THE OWNER.
  - CONTRACTOR SHALL POT HOLE <u>CRITICAL LOCATIONS</u> AND OBTAIN ALL EXISTING PIPE O.D. PRIOR TO ORDERING OR OBTAINING MATERIALS REQUIRED FOR CONNECTIONS TO EXISTING PIPING. UTILITY SHUT—DOWNS AND OTHER WORK WILL NOT BE SCHEDULED OR ALLOWED UNTIL THIS IS ACCOMPLISHED AND MATERIALS ARE ON SITE AND APPROVED FOR USE BY OGDEN CITY.
- 8. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE WHICH ARE TO REMAIN IN PLACE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTORS OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO ORIGINAL OR BETTER CONDITION TO THE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING SERVICE LINES FOR GAS, SEWER, WATER, AND OTHER UTILITIES AND REPAIRING DAMAGE TO SUCH LINES AS A RESULT OF THE CONTRACTOR'S OPERATIONS. SERVICE CONNECTIONS FOR UTILITIES ARE NOT SHOWN ON THE DRAWINGS.
- 10. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFORMANCE WITH LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PUBLIC AND PROTECTION OF PERSONNEL AND WORKERS.
- 11. IF THE CONTRACTOR CHOOSES TO WORK ON THE PROJECT WHEN HOT MIX ASPHALT IS NOT AVAILABLE, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE GOVERNING AGENCY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY ASPHALT SURFACING MATERIAL. WHEN PERMANENT ASPHALT BECOMES AVAILABLE, THE CONTRACTOR SHALL REMOVE THE TEMPORARY ASPHALT, FURNISH AND INSTALL THE PERMANENT ASPHALT AT NO ADDITIONAL COST TO THE OWNER.
- 12. CONTRACTOR SHALL NOT DESTROY, REMOVE, OR DISTURB ANY EXISTING SURVEY MONUMENTS WITHOUT AUTHORIZATION OF CONTROLLING AGENCY. NO PAVEMENT CUTTING OR REMOVAL SHALL BEGIN UNTIL ALL SURVEY MARKERS OR MONUMENT POINTS THAT HAVE THE POTENTIAL OF BEING DISTURBED BY THE CONSTRUCTION OPERATIONS HAVE BEEN PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR. ALL SURVEY MONUMENTS OR POINTS DISTURBED BY THE CONTRACTOR SHALL BE ACCURATELY RESET BY A REGISTERED LAND SURVEYOR AFTER ALL RESTORATION AND RESURFACING HAS BEEN COMPLETED.

- 13. TRENCHING OPERATIONS SHALL BE PERFORMED SO AS TO PROTECT THE EXISTING CURB AND GUTTER. DAMAGED CURB AND GUTTER SHALL BE REPLACED TO MATCH EXISTING AT THE CONTRACTOR'S EXPENSE PER APWA STANDARDS FOR OGDEN CITY AND PER UDOT STANDARDS IN UDOT RIGHTS—OF—WAY. TRENCH SUPPORTS AND DEWATERING (NOTE 14) SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR. MAXIMUM OPEN TRENCH DURING WORKING HOURS SHALL BE 300 FEET. ALL TRENCHES SHALL BE BACKFILLED AND/OR PLATED DURING NON—WORKING HOURS, PER EXCAVATION PERMIT REQUIREMENTS.
- 14. DEWATERING: GROUND WATER AND SURFACE WATER CONTROL SHALL BE PERFORMED AND RESPONSIBLY HANDLED BY THE CONTRACTOR ACCORDING TO, AND IN COMPLIANCE WITH, ALL LOCAL GOVERNING AUTHORITIES. HEAVY GROUND WATER AND/OR SURFACE WATER PUMPING MAY BE REQUIRED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE POTENTIAL PUMPING NEEDS. THE CONTRACTOR SHALL NOT RELY ON OWNER SUPPLIED PROCTOR, GROUND WATER AND/OR SURFACE WATER DATA. CONTRACTOR SHALL OBTAIN DEWATERING PERMIT AS NECESSARY.
- 15. AERIAL PHOTOS IN DRAWINGS:
  THE AERIAL PHOTOS PROVIDED AS BACKGROUND IN THESE
  DRAWINGS ARE PROVIDED TO HELP CLARIFY THE WORK SITE.
  HOWEVER, THE PHOTOS DEPICT CONDITIONS AS THEY EXISTED IN
  2017. PRESENT DAY CONDITIONS MAY VARY FROM THOSE SHOWN.
  CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO
  BIDDING. BID SHALL INCLUDE ALL WORK REQUIRED TO COMPLETE
  THE PROJECT.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY SETTLEMENT OF EXCAVATIONS, AND ANY DAMAGE OF UTILITIES RESULTING FROM SETTLEMENT.
- 17. CONTRACTOR SHALL PREVENT ANY GROUND WATER OR DEBRIS FROM ENTERING NEW PIPES DURING CONSTRUCTION. THE ENDS OF THE PIPES SHALL BE SEALED AT THE END OF EACH WORKDAY.
- 18. PROFILE DRAWINGS ARE HORIZONTAL PROJECTIONS OF THE PIPELINE CENTERLINE, UNLESS OTHERWISE NOTED.
- 19. LAY PIPE TO DEPTH AND ALONG HORIZONTAL ALIGNMENT AS DEFINED IN THESE DRAWINGS. CONTRACTOR SHALL NOT DEVIATE FROM PROPOSED ALIGNMENT OR GRADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. AVOID HIGH AND LOW POINTS EXCEPT WHERE DESIGNED.
- 20. CONTRACTOR SHALL SALVAGE ALL REMOVED COPPER PIPE AND HYDRANTS AND PROVIDE THEM TO OGDEN CITY, UNLESS NOTED OTHERWISE
- 21. CONTRACTOR SHALL BACKFILL TRENCH AREAS WHERE NEW WATERLINES CROSS UNDER EXISTING BURIED UTILITIES WITH FLOWABLE FILL (SOIL CEMENT BACKFILL) IN ACCORDANCE WITH APWA STANDARDS, IF STANDARD MECHANICAL COMPACTION CANNOT BE OBTAINED USING MECHANICAL METHODS. WATER LINES ARE NOT ALLOWED TO BE BURIED BELOW SEWER LINES UNLESS AN EXCEPTION HAS BEEN GRANTED BY THE DIVISION OF DRINKING WATER PRIOR TO CONSTRUCTION.
- 22. ALL BURIED REBAR, FITTINGS, COUPLINGS, VALVES AND MECHANICAL JOINT NUTS AND BOLTS ARE TO BE COATED WITH NON OXIDE GREASE CHEVRON FM 2 OR APPROVED EQUAL, COVERED WITH 8 MIL POLYETHYLENE SHEETING, AND TAPE WRAPPED.
- 23. CONTRACTOR SHALL MAINTAIN A 10-FOOT HORIZONTAL AND AN 18-INCH VERTICAL SEPARATION (OUTSIDE OF PIPE TO OUTSIDE OF PIPE/MANHOLE) BETWEEN ALL SEWER AND WATER LINES. WATER LINES ARE NOT ALLOWED TO BE BURIED BELOW SEWER LINES UNLESS AN EXCEPTION HAS BEEN GRANTED BY THE DIVISION OF DRINKING WATER PRIOR TO CONSTRUCTION.
- 24. CONTRACTOR SHALL RESTORE OR REPLACE ANY SPRINKLING SYSTEMS AND LANDSCAPING DAMAGED DURING CONSTRUCTION TO EQUAL OR BETTER CONDITION THAN WHAT EXISTED PRIOR TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 25. UNLESS NOTED OTHERWISE, ALL WATER MAIN SHALL BE 14—INCH DUCTILE IRON CLASS 350 PIPE. SIZE OF FITTINGS SHOWN ON THE PLANS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, AND SHALL BE DUCTILE IRON FITTINGS.
- 26. CONTRACTOR SHALL PROTECT ADJACENT PRESSURE PIPELINES AND PROVIDE TEMPORARY THRUST RESTRAINT AS NECESSARY DURING CONSTRUCTION INCLUDING EXISTING VALVES, TEES, BENDS, ETC.. ALL NEW PRESSURE PIPE AND FITTINGS SHALL HAVE THRUST RESTRAINED JOINTS, THRUST BLOCKS, THRUST TIES OR OTHER APPROVED THRUST RESTRAINT. THRUST PROTECTION SHALL BE ADEQUATE FOR THE TEST PRESSURE SPECIFIED.
- 27. ALL FITTINGS REQUIRED FOR THE COMPLETION OF THE WORK ARE NOT SHOWN IN THE DRAWINGS. MAXIMUM PIPE JOINT DEFLECTION SHALL BE 1-DEGREE. ADDITIONAL FITTINGS REQUIRED TO MAINTAIN THE ALIGNMENT SHOWN IN THE PLANS SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

- 28. MINIMUM DEPTH OF NEW PIPE: 4 FEET TO TOP OF PIPE UNLESS OTHERWISE NOTED
- 29. COORDINATE CONNECTION OF EXISTING WATER MAINS WITH OGDEN
  - OPERATION OF ALL EXISTING MAIN LINE VALVES TO BE COORDINATED THROUGH OGDEN CITY 48—HOURS IN ADVANCE OF SHUTDOWN. CONNECTIONS TO SOME WATERLINES SERVING COMMERCIAL AREAS MAY REQUIRE NIGHT OR WEEKEND SHUTDOWNS. CONTRACTOR TO PERFORM NIGHT OR WEEKEND WORK IN THESE AREAS AT NO ADDITIONAL COST TO OWNER.
  - OGDEN CITY DOES NOT GUARANTEE WATER SHUT-DOWNS.
    CONTRACTOR TO DEVISE PLANS TO AVOID WORK STOPPAGES IN THE EVENT A SHUT-DOWN DOES NOT GO AS PLANNED
  - CONTRACTOR SHALL SUBMIT FOR REVIEW A SEQUENTIAL PLAN FOR CONNECTION, TESTING, AND FLUSHING OF ALL NEW WATER MAINS, HYDRANTS, AND SERVICE CONNECTIONS.
- 30. CONTRACTOR SHALL PERFORM CHLORINATION TEST, PRESSURE TEST, AND BACTERIA TEST. ALL WATERLINES INSTALLED SHALL BE DISINFECTED IN ACCORDANCE WITH THE "AMERICAN WATER WORKS ASSOCIATION STANDARD FOR DISINFECTING WATER MAINS" (AWWA C651). ALL CHLORINATED WATER SHALL BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS FOR SURFACE DISCHARGE AND COORDINATED WITH UTAH DIVISION OF WATER QUALITY AND OGDEN CITY.
- 31. ASPHALT SHALL BE PG 64-34 1/2" AGGREGATE MIX ASPHALT IN ACCORDANCE WITH OGDEN CITY REQUIREMENTS. CONTRACTOR SHALL OBTAIN PERMITS FROM OGDEN CITY AND COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.
- 32. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN A WORKMANLIKE AND SAFE MANNER AND IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND JOB—SITE RELATED CONSTRUCTION CONDITIONS AND REQUIREMENTS. OBTAIN PERMITS, INSPECTIONS AND APPROVALS AS REQUIRED BY JURISDICTIONAL AGENCIES AND PAY ALL ASSOCIATED FEES. CONTRACTOR AND INSTALLERS SHALL BE LICENSED AS REQUIRED BY STATE AND LOCAL JURISDICTIONS, AND BONDED AS DETERMINED BY PROJECT REQUIREMENTS.
- 33. PRESSURE TEST ALL PIPELINES TO 180 PSI MINIMUM FOR TWO HOURS WITH ZERO LEAKAGE. IN THE CASE OF PIPELINES THAT FAIL TO PASS THE LEAKAGE TEST, THE CONTRACTOR SHALL DETERMINE THE CAUSE OF THE EXCESSIVE LEAKAGE, SHALL TAKE CORRECTIVE MEASURES NECESSARY TO REPAIR THE LEAKS, AND SHALL AGAIN TEST THE PIPELINES, ALL AT NO COST TO THE OWNER.
- 34. WORKING PRESSURE FOR THE SYSTEM IS 120 PSI WITH TEST PRESSURE OF 180 PSI. ALL FLANGES, VALVES, FITTINGS, THRUST BLOCKS, ETC. SHALL BE RATED APPROPRIATELY.
- 35. ALL PIPE, FITTINGS, AND VALVES SHALL BE NSF 61 COMPLIANT FOR CULINARY WATER USE.
- 36. CONTRACTOR TO PROVIDE AND DISTRIBUTE APPROVED WRITTEN NOTICE OF CONSTRUCTION ACTIVITIES TO ALL RESIDENTS AND BUSINESSES LOCATED IN THE CONSTRUCTION AREA AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. WRITTEN NOTICE SHALL BE APPROVED BY THE ENGINEER PRIOR TO DISTRIBUTION.
- 37. CONTRACTOR SHALL PROVIDE AND UPDATE A CONSTRUCTION SCHEDULE FOR WORKING IN THE PUBLIC RIGHT-OF-WAY PRIOR TO CONSTRUCTION.
- 38. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTROL OF DRAINAGE AND EROSION DURING CONSTRUCTION AT CONSTRUCTION SITE, STAGING, AND SPOILS AREA. CONTRACTOR SHALL SUBMIT STORM RUNOFF CONTROL PLAN FOR APPROVAL BY ENGINEER AND OBTAIN A SWPPP PERMIT FROM THE UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY.
- 39. ABANDONING EXISTING WATERLINE:
  REMOVE ABANDONED PIPE WHERE UNCOVERED OR DISTURBED BY
  CONSTRUCTION. WHERE NOT DISTURBED, CONTRACTOR MAY
  ABANDON EXISTING WATER MAIN IN PLACE AFTER NEW MAIN IS IN
  FULL SERVICE. PLUG ENDS OF ABANDONED MAIN WITH CONCRETE.
  OLD WATER MAINS THAT ARE NO LONGER IN SERVICE ARE TO BE
  DISCONNECTED COMPLETELY FROM THE WORKING SYSTEM. UNLESS
  CONTRACTOR IS SPECIFICALLY DIRECTED TO REMOVE EXISTING
  VALVES, THE CONTRACTOR SHALL ABANDON EXISTING VALVES IN
  PLACE. OPEN VALVE, REMOVE BOTH THE TOP AND BOTTOM OF
  VALVE BOX AND FILL RESULTING HOLE WITH SAND. RESTORE
  SURFACE IN ACCORDANCE WITH SURFACE RESTORATION
  REQUIREMENTS OF THE GOVERNING AGENCY.
- 40. ALL ASBESTOS CEMENT WATERLINES REQUIRING REMOVAL SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS IN AN APPROVED LOCATION EQUIPPED TO HANDLE SUCH MATERIALS. ANY CUTTING REQUIRED SHALL BE PERFORMED IN ACCORDANCE WITH PROPER REGULATORY PROCEDURES. IN NO CASE SHALL THE PIPE AND FITTINGS BE BROKEN OR CRUSHED.
- 41. CONTRACTOR SHALL SAW CUT ASPHALT, SIDEWALK TO THE NEAREST JOINT, AND WHERE REQUIRED CURB AND GUTTER TO THE NEAREST JOINT AT THE LIMITS OF ALL TRENCH EXCAVATION.

- 42. WORKING HOURS IN OGDEN CITY SHALL BE 7:00 AM TO 7:00 PM. WORKING HOURS IN THE UDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE UDOT PERMIT REQUIREMENTS.
- 43. INSTALL ALL MATERIALS ACCORDING TO MANUFACTURER RECOMMENDATIONS AND STATE AND LOCAL REQUIREMENTS. USE ONLY NEW AND UNUSED MATERIALS. ALL MATERIALS SHALL BE PROVIDED BY MANUFACTURERS REGULARLY ENGAGED IN PRODUCING SAID ITEMS, AND WHICH SHALL BE FIRST QUALITY, HEAVY DUTY, COMMERCIAL/INDUSTRIAL GRADE, SUITABLE FOR THE INTENDED USE.
- 44. CONTRACTOR SHALL RESTORE ALL DAMAGED CURB, GUTTER, SIDEWALK, DRIVEWAY APPROACHES, AND WATER WAYS IN ACCORDANCE WITH APWA MANUAL OF STANDARD PLANS 2017 EDITION, PLAN NO. 205, 211, 221, AND 231 WITHIN OGDEN CITY RIGHT—OF—WAY AND IN ACCORDANCE WITH UDOT STANDARDS IN UDOT RIGHTS—OF—WAY. TO PRESERVE AND PROTECT EXISTING CURB AND GUTTER, CONTRACTOR SHALL FLOWABLE FILL UNDERNEATH CURB AND GUTTER AFTER TUNNELING FOR HYDRANTS OR SERVICE CONNECTIONS.
- 45. ALL GAS LINES SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 12—INCHES ABOVE OR BELOW THE NEW WATERLINE, AND A MINIMUM HORIZONTAL CLEARANCE OF 3 FEET. ALL GAS LINES RELOCATED OR EXPOSED SHALL BE REBURIED PER DOMINION ENERGY'S REQUIREMENTS
- 46. ABANDON EXISTING WATERLINE IN PLACE AFTER NEW WATERLINE IS IN FULL SERVICE. PLUG ENDS OF ABANDONED WATERLINE WITH CONCRETE. OLD WATERLINES THAT ARE NO LONGER IN SERVICE ARE TO BE DISCONNECTED COMPLETELY FROM THE WORKING SYSTEM. ABANDON EXISTING VALVES IN PLACE. OPEN VALVE REMOVE VALVE BOX AND FILL RESULTING HOLE WITH SAND. RESTORE SURFACE IN ACCORDANCE WITH SURFACE RESTORATION REQUIREMENTS.
- 47. ALL DUCTILE IRON FITTINGS SHALL BE MADE IN THE U.S.A. AND HAVE MEGALUGS ON ALL MECHANICAL JOINTS.
- 48. PRESERVE AND PROTECT EXISTING TREES. NO TRIMMING OR REMOVAL OF TREES SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF OGDEN CITY.





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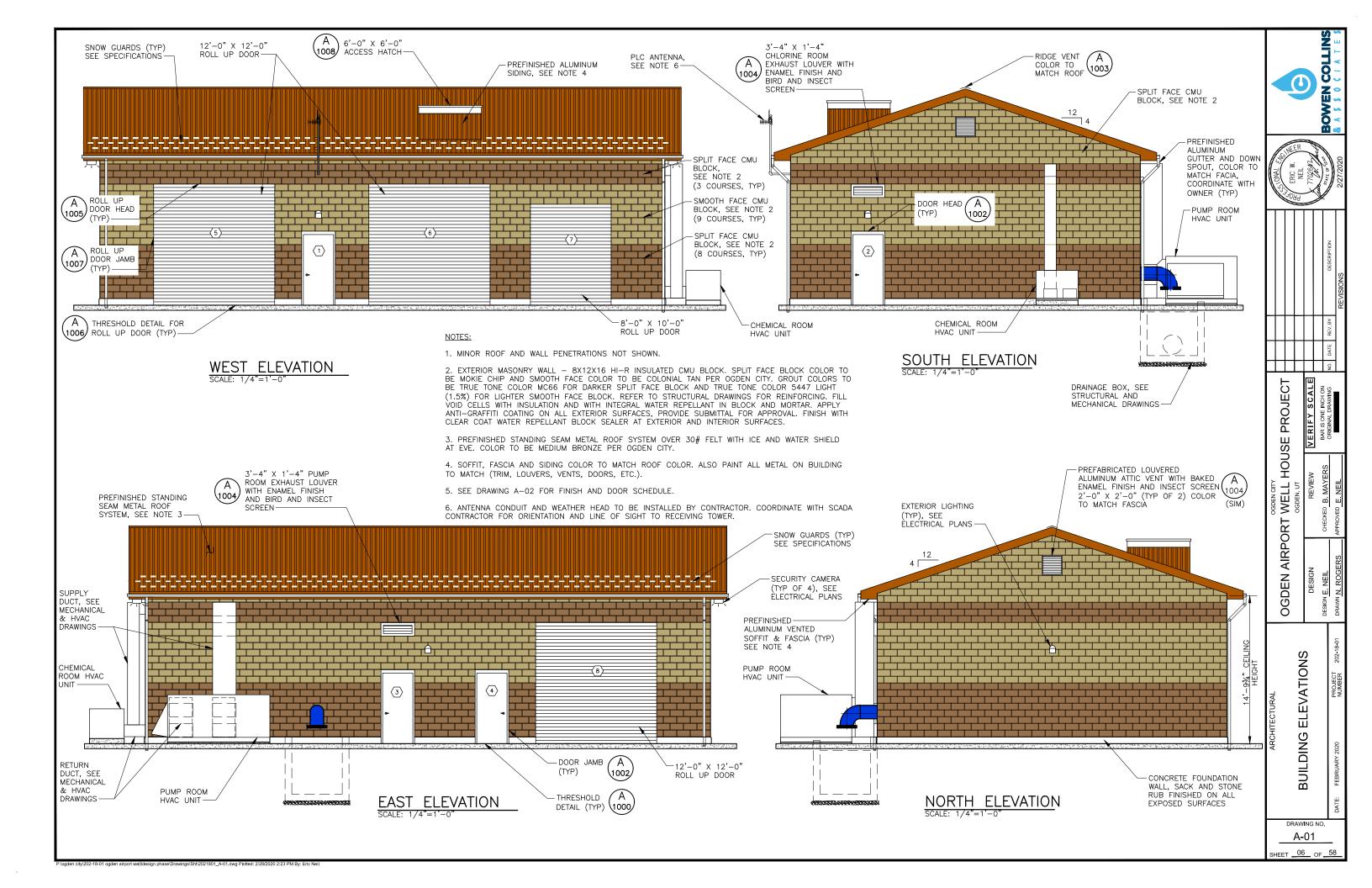
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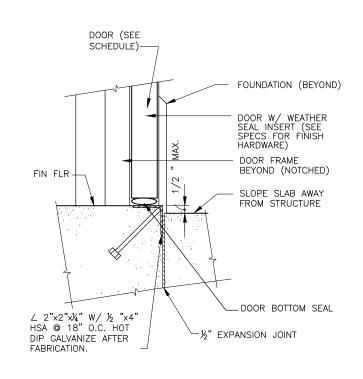
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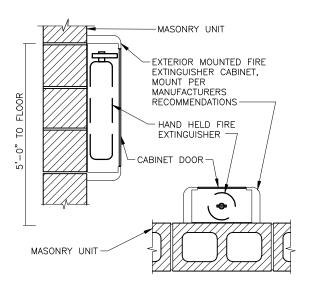
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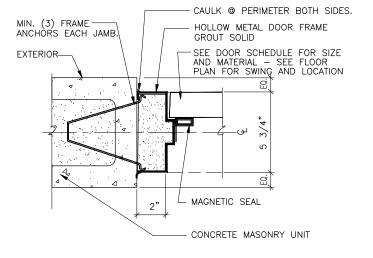
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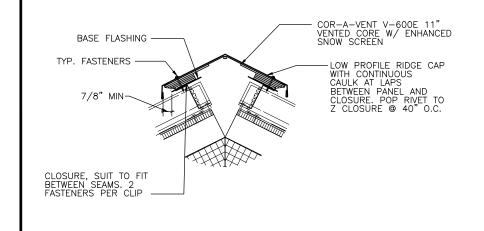
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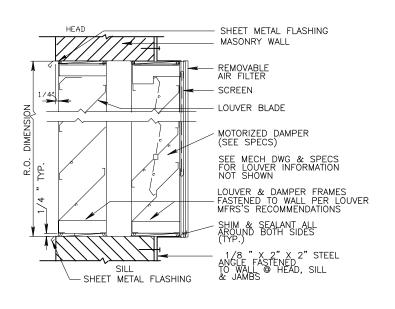
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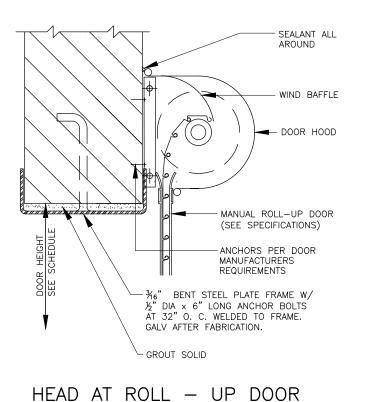
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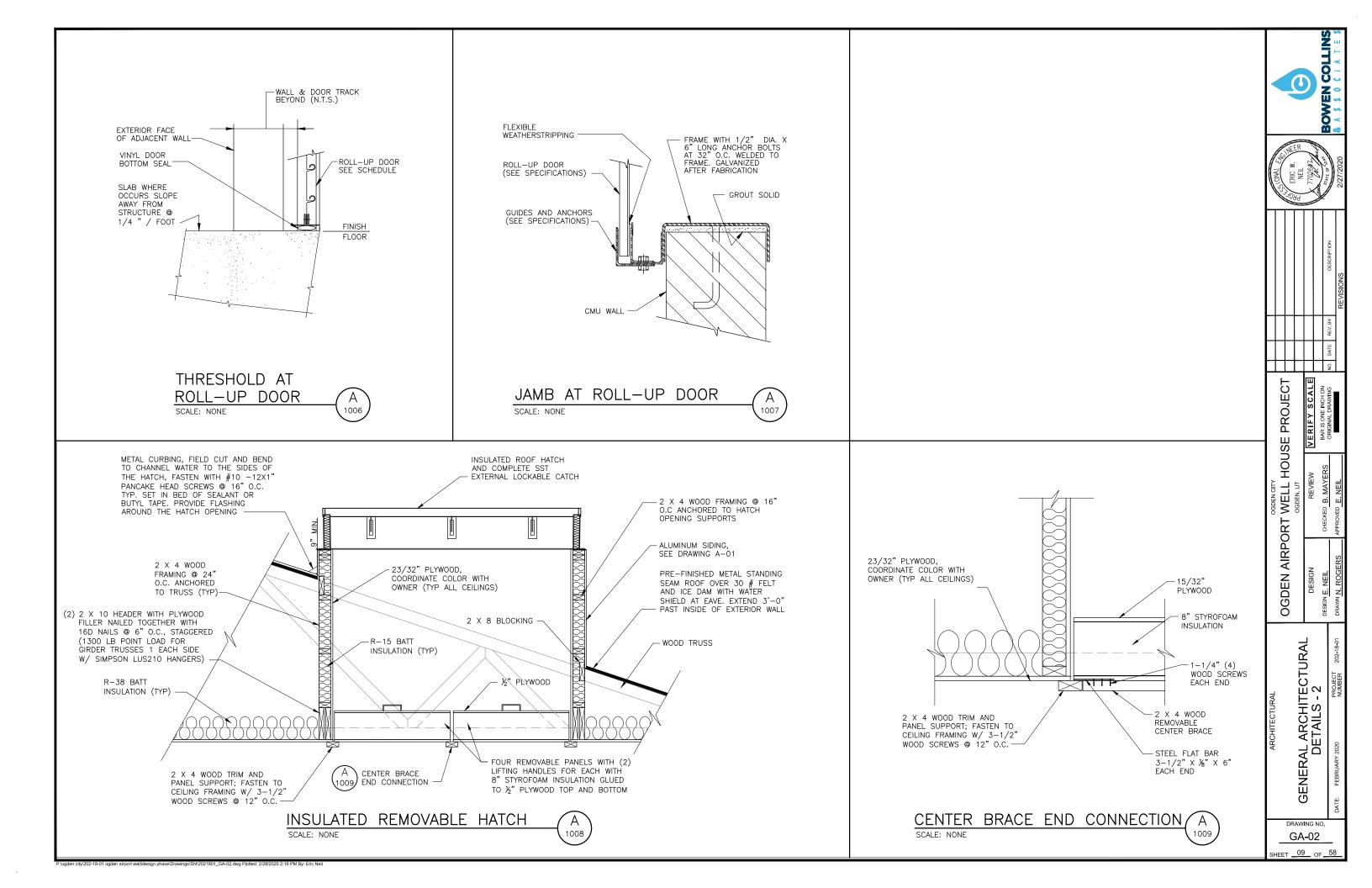
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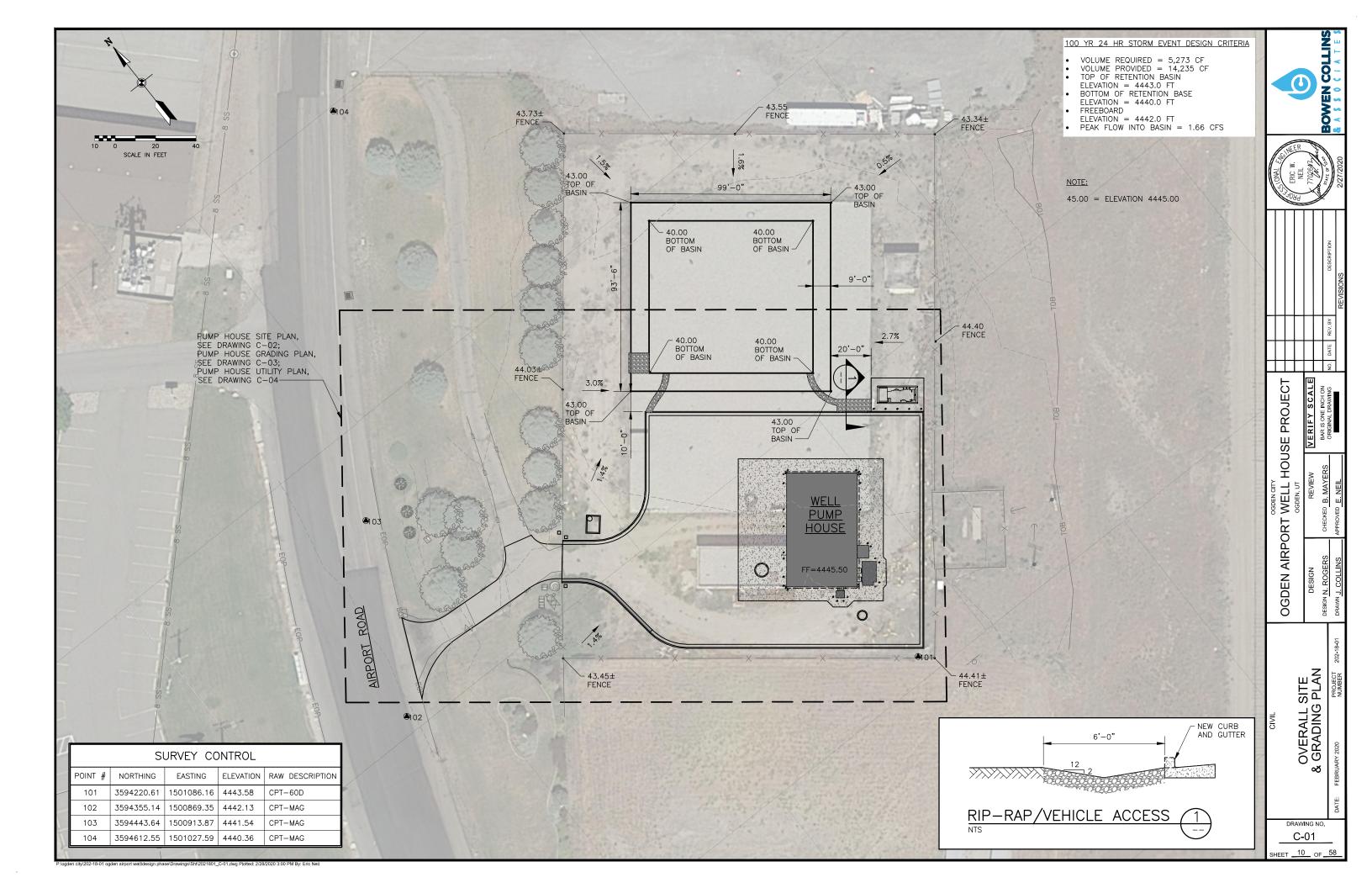
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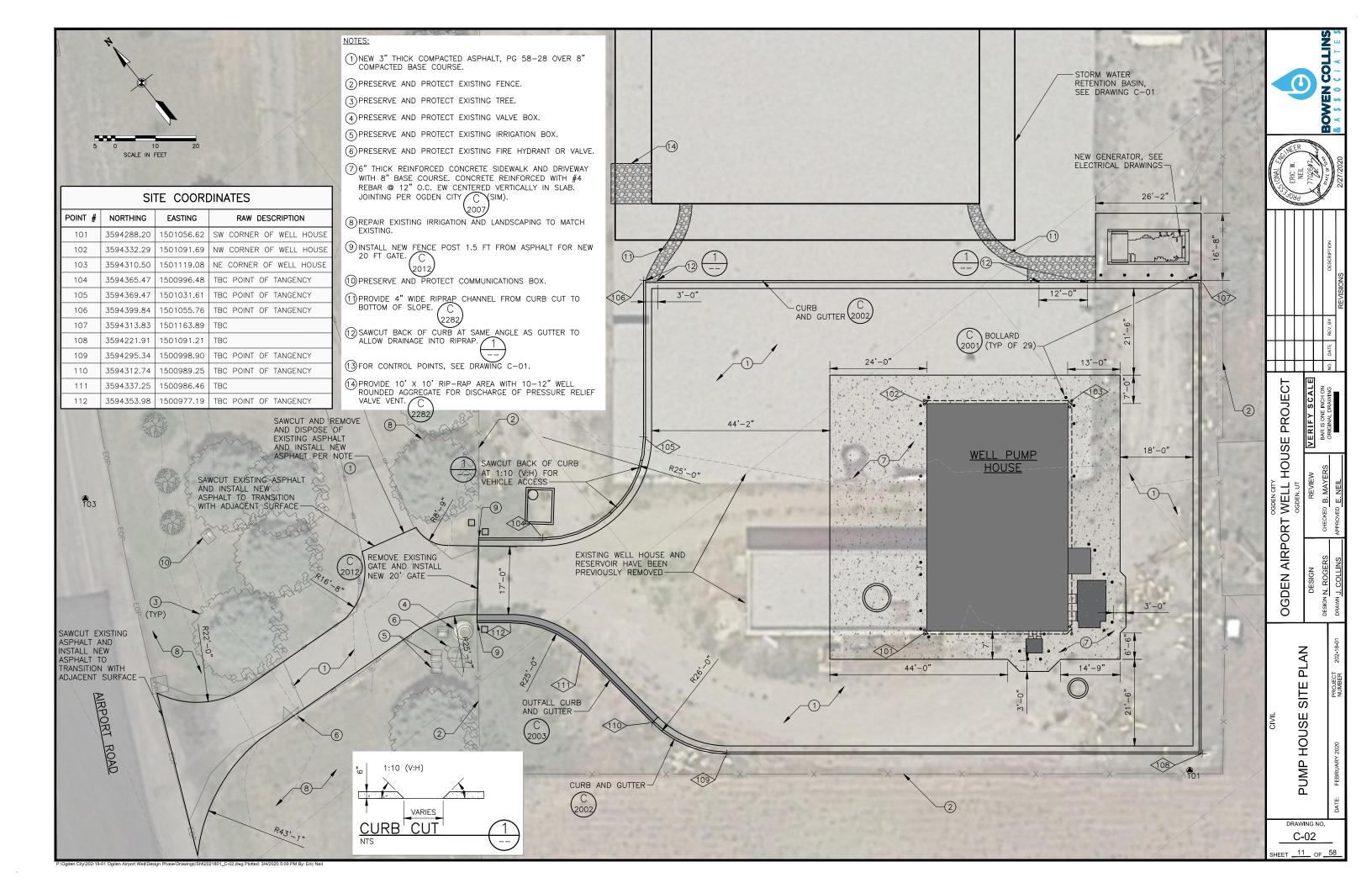
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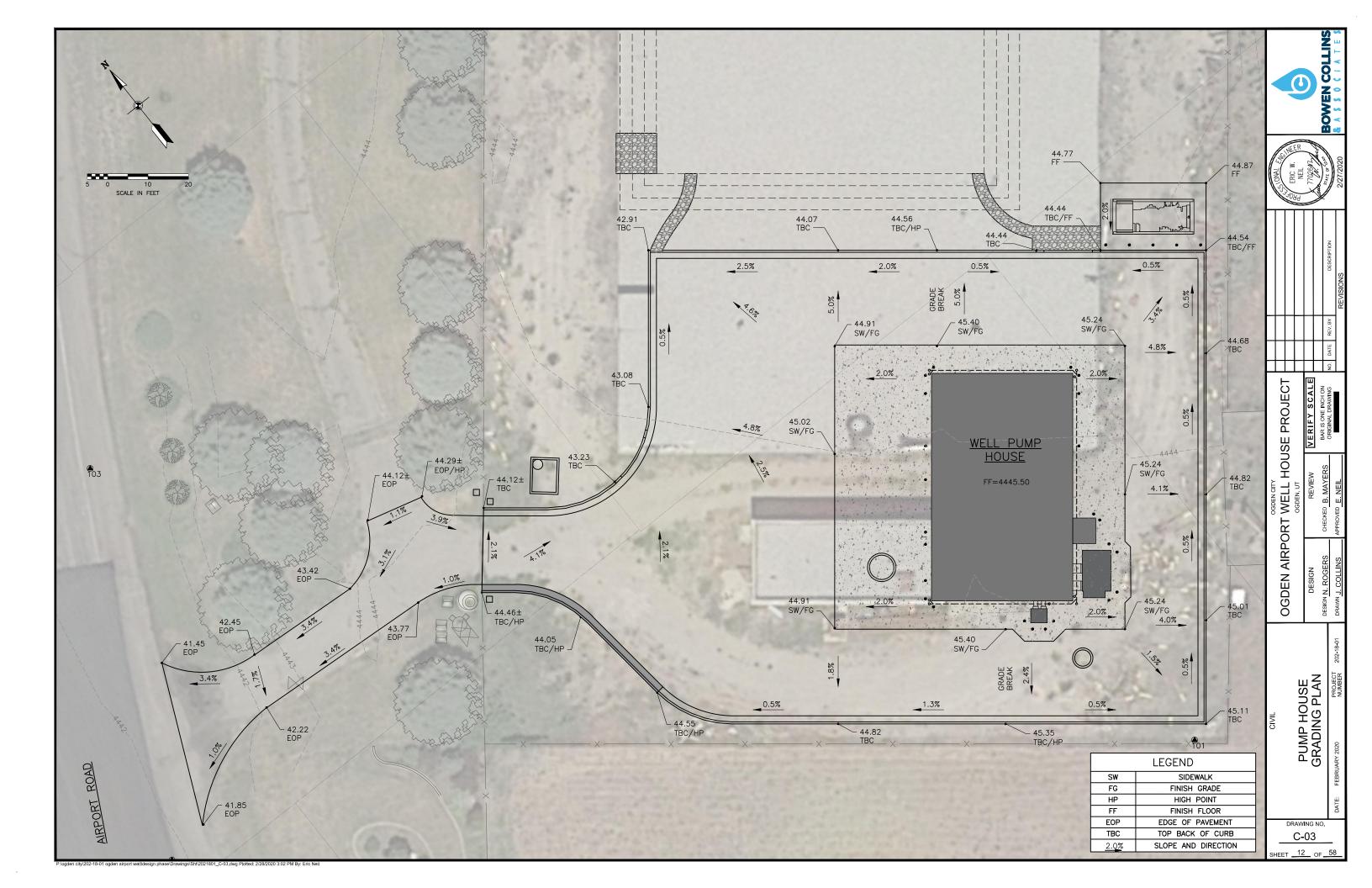
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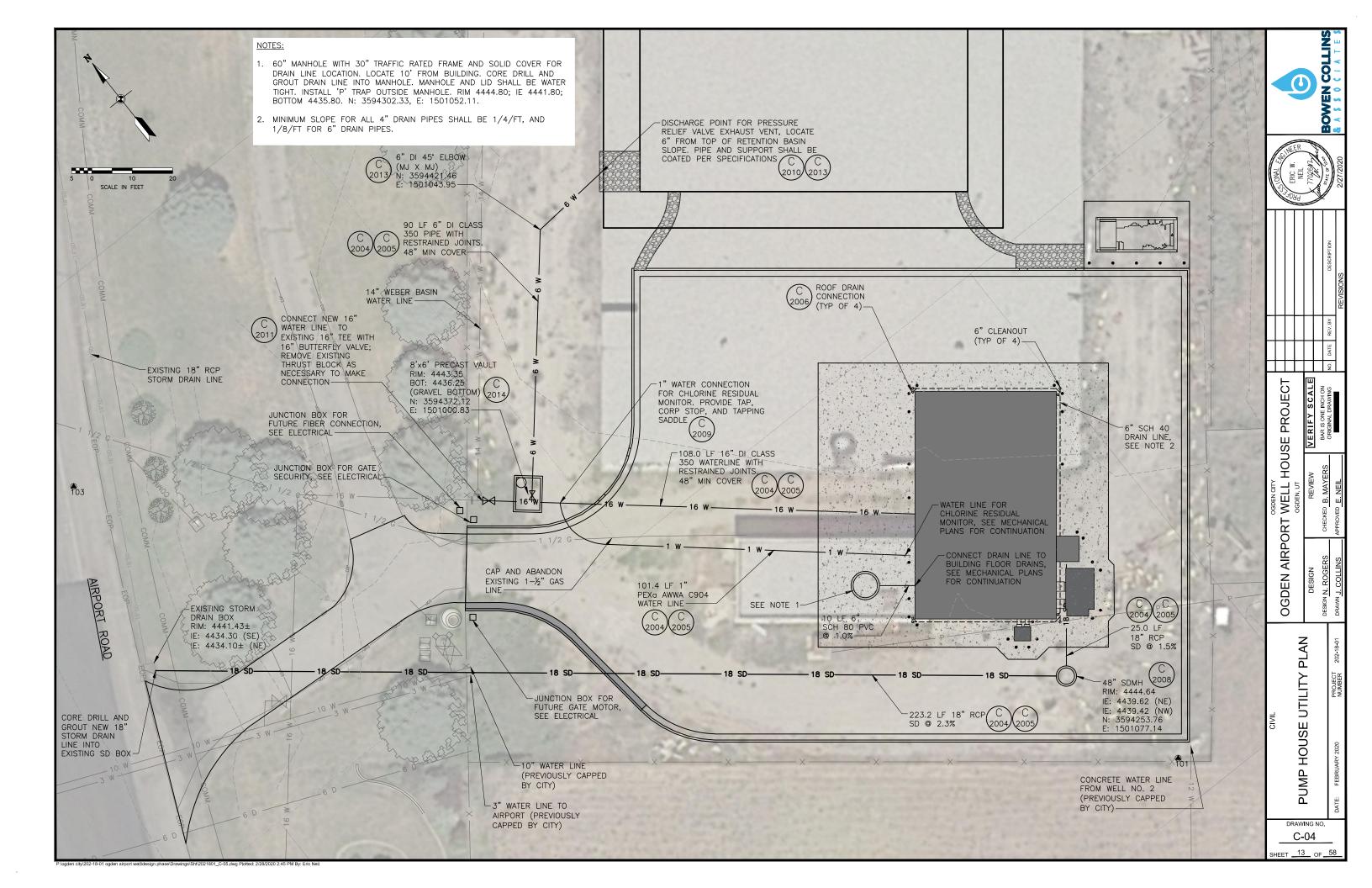
OGDEN AIRPORT

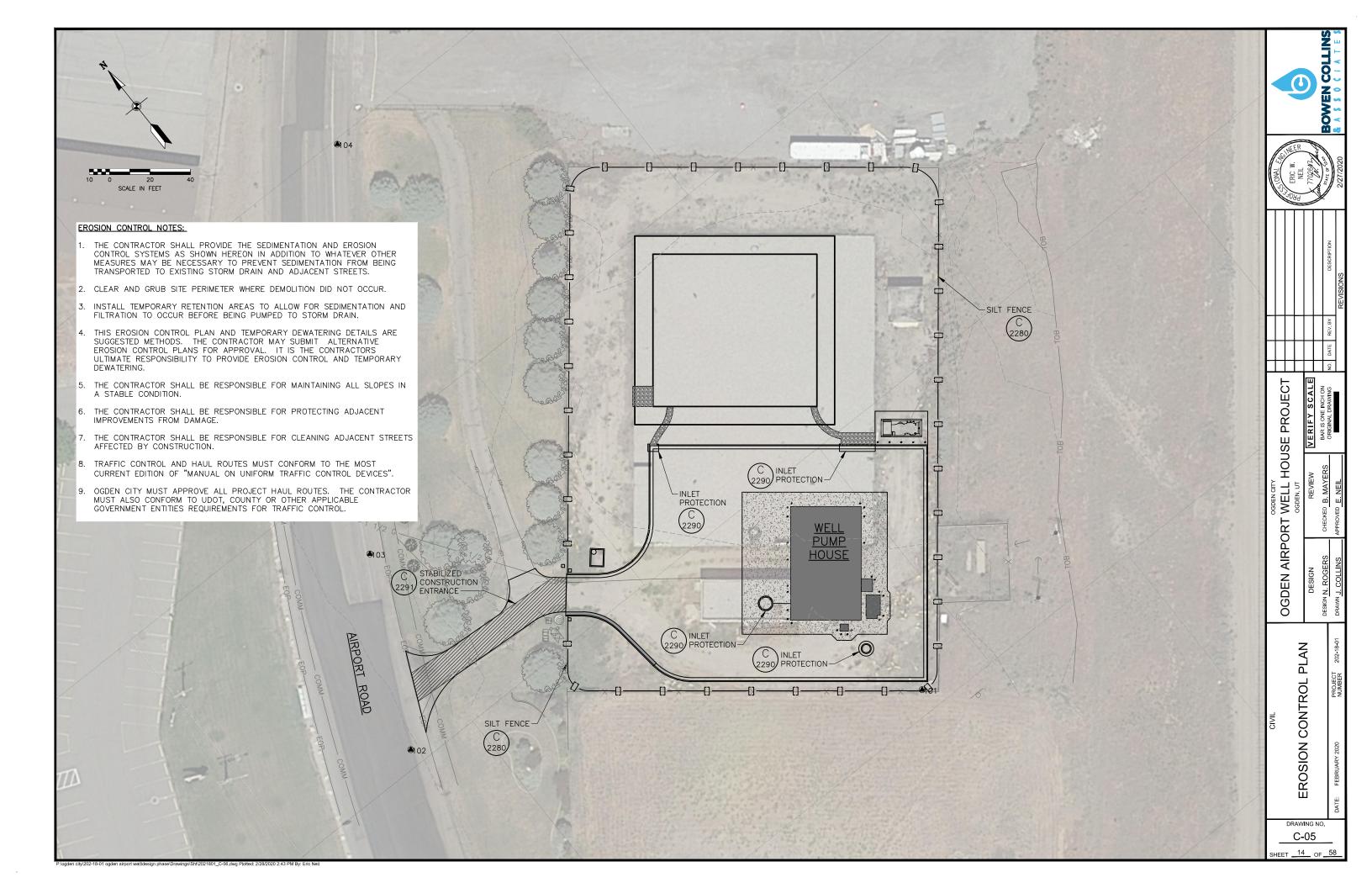


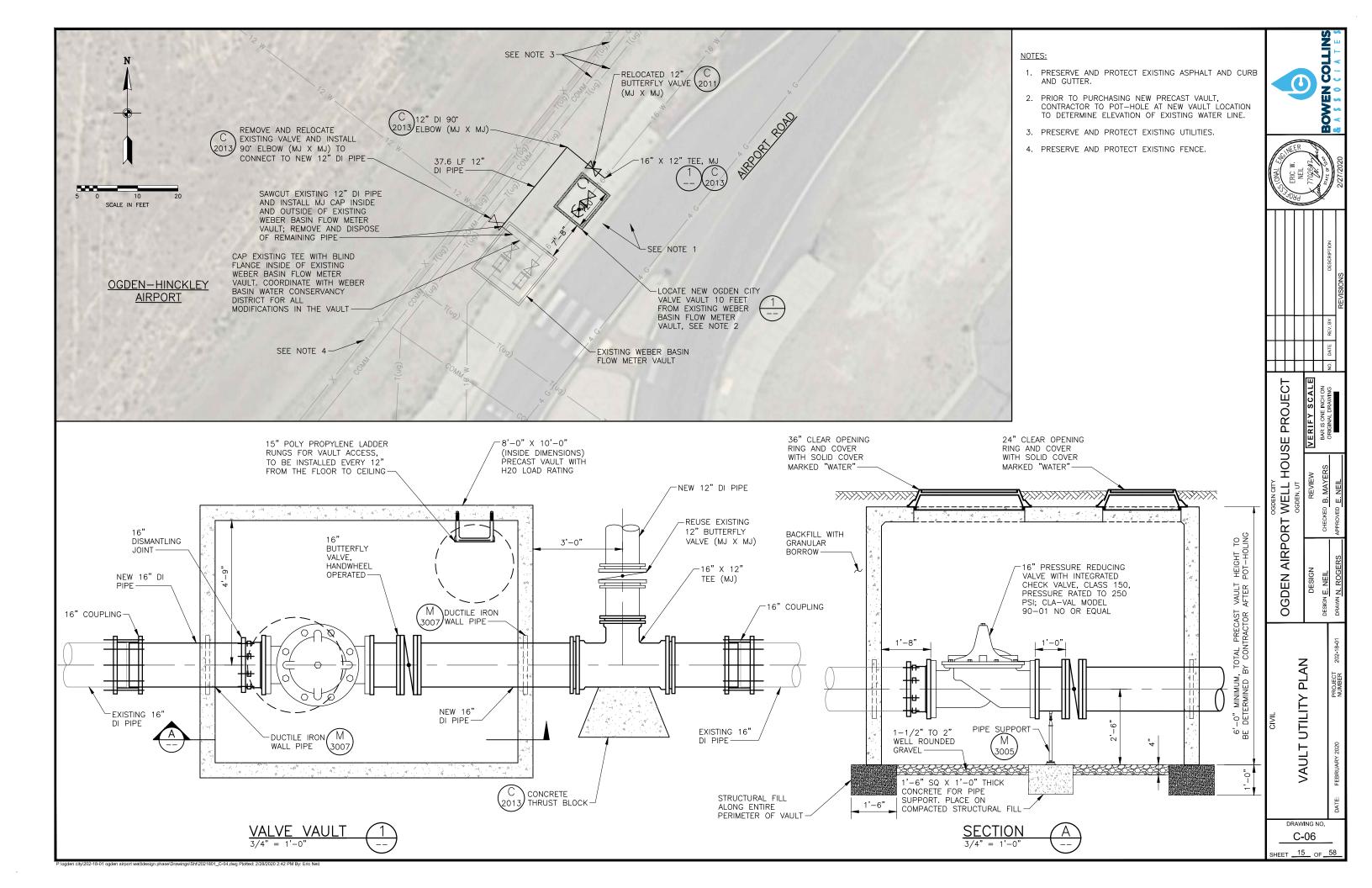


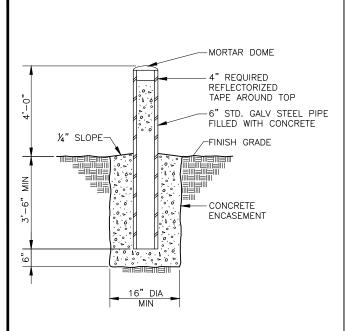


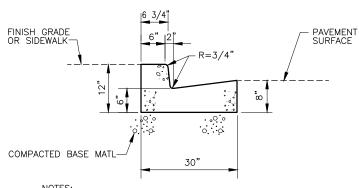






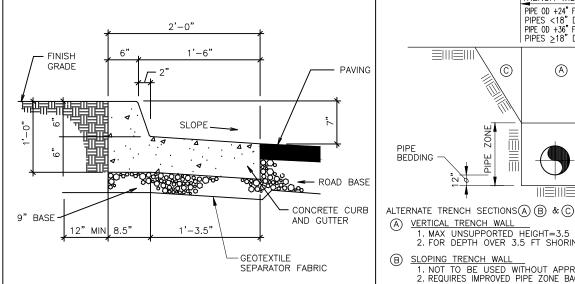






# NOTES:

- 1. CONTRACTION JOINTS SHALL BE PLACED AT 10' SPACING. EXPANSION JOINTS OF 1/2" PREMOLDED JOINT FILLER SHALL BE PLACED AT BACK OF CURB AND AT 50' MAXIMUM SPACING.
- 2. ALL EXPOSED SURFACES OF CURB AND GUTTER SHALL BE GIVEN A MORTAR BRUSH COAT CONSISTING OF ONE PART PORTLAND CEMENT, ONE PART SAND AND THEN TROWELED SMOOTH.



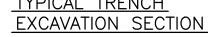
# NOTES:

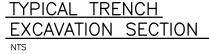
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- 2. ALL EXPOSED SURFACES OF CURB AND GUTTER SHALL BE GIVEN A MORTAR BRUSH COAT CONSISTING OF ONE PART PORTLAND CEMENT, ONE PART SAND AND THEN TROWELED SMOOTH.

OUTFALL CURB AND GUTTER



AREAS TO MINIMIZE TRENCH WIDTH.





TRENCH WIDTH PIPE OD +24" FOR PIPES <18" DIA PIPE OD +36" FOR

PIPES ≥18" DIA

(A)

2. FOR DEPTH OVER 3.5 FT SHORING OR SHEATHING REQUIRED.

B SLOPING TRENCH WALL

1. NOT TO BE USED WITHOUT APPROVAL OF ENGINEER.
2. REQUIRES IMPROVED PIPE ZONE BACKFILL OR INCREASE IN PIPE CLASS

1. TRENCH EXCAVATIONS TO BE IN ACCORDANCE WITH OSHA SAFETY

AND HEALTH STANDARDS FOR CONSTRUCTION. (29 CFR 1926).

2. CONTRACTOR TO PROVIDE SHORING OR TRENCH BOX IN ROADWAY

3. CONTRACTOR TO PROVIDE ALL DEWATERING MEASURES AS REQUIRED.

© COMBINATION VERTICAL/SLOPING TRENCH

1. TRENCH IN PIPE ZONE SHALL HAVE VERTICAL WALLS WHERE STABLE SOIL EXISTS.

0

1. MAX UNSUPPORTED HEIGHT=3.5 FT.

BEDDING

2003



Q Q

**PROJECT** 

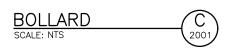
HOUSE

**AIRPORT** 

OGDEN

DETAILS

SEE NOTE



BOLLARD POSTS SHALL BE INSTALLED BY

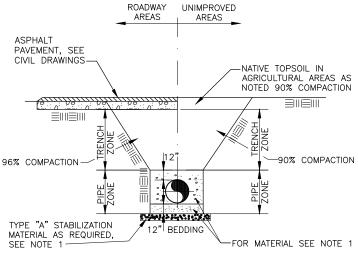
VALVES AND VAULTS IN UNIMPROVED AREAS

IN LOCATIONS SPECIFIED BY THE ENGINEER



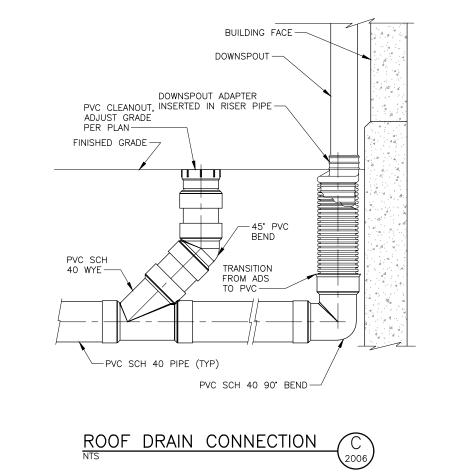


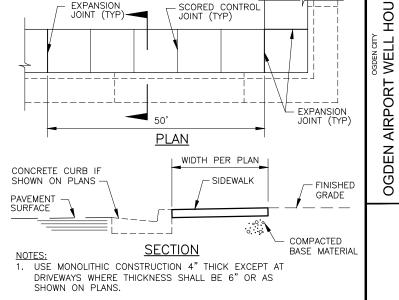




- 1. SEE APWA 2017 SPECIFICATIONS AND SPECIFICATION SECTION 31 23 00 "EARTHWORK" FOR DEFINITION OF PIPE ZONE MATERIAL, BACKFILL MATERIAL AND COMPACTION REQUIREMENTS. IF A DISCREPANCY BETWEEN THE TWO SPECIFICATIONS EXIST, THE APWA SPECIFICATION SHALL GOVERN
- 2. IMPORT BACKFILL REQUIRED FOR TRENCH BACKFILL UNDER ROADWAY AREAS
- 3. NATIVE MATERIAL MEETING SPECIFICATION REQUIREMENT FOR 'SUITABLE MATERIAL' MAY BE USED FOR TRENCH ZONE BACKFILL IN UNIMPROVED

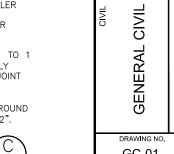




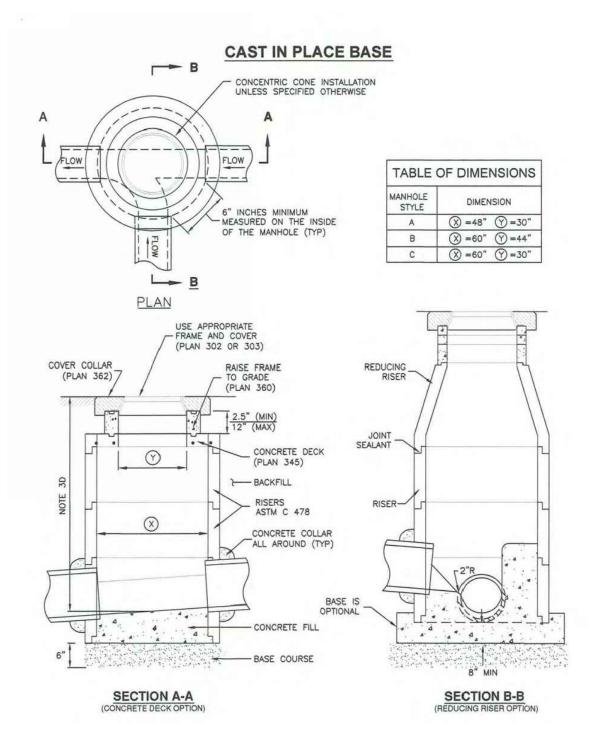


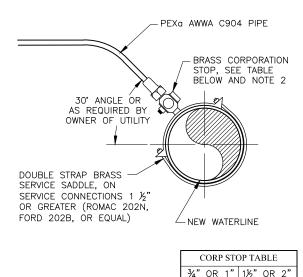
- 2. EXPANSION JOINTS OF 1/2" PREMOLDED JOINT FILLER SHALL BE PLACED AT BACK OF CURB AND AT INTERSECTIONS WITH PERPENDICULAR SIDEWALKS OR DRIVEWAYS.
- 3. PLACE CONTROL JOINTS AT INTERVALS EQUAL TO 1 TO 1 1/2 TIMES THE WIDTH OF THE SIDEWALK UNIFORMLY PLACED ALONG LENGTH OF SIDEWALK. DEPTH OF JOINT SHALL BE 1" MINIMUM.
- 4. EDGE SIDEWALK WITH 1/2" RADIUS EDGING TOOL ROUND EDGES AT EXPANSION JOINTS TO A RADIUS OF 1/2".

CONCRETE SIDEWALK 2007



GC-01 SHEET 16 OF 58





CORP STOP TABLE

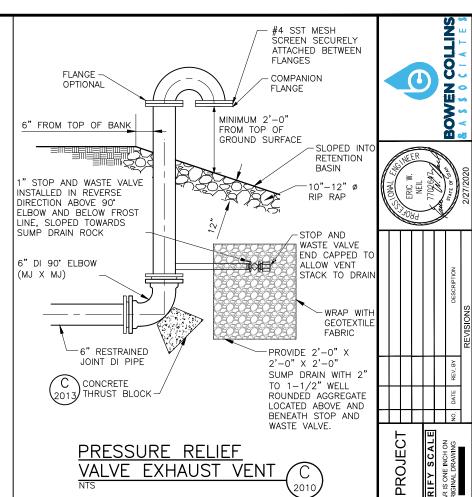
3/4" OR 1" 1½" OR 2"

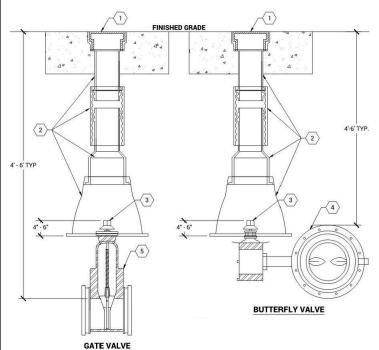
MUELLER MUELLER H–15000 B–25000 (OR EQUAL) (OR EQUAL)

NOTES:

1. CONTRACTOR SHALL ROTATE CORPORATION STOP SO THAT VALVE ACTUATOR RUNS PARALLEL WITH PIPE. REDWOOD OR PRESSURE TREATED WOOD SHIMS SHALL BE PLACED UNDER CORPORATION STOP TO PROVIDE SUPPORT DURING BACKFILLING.







NOTES:

1. OPERATING NUT MUST BE VISIBLE AND
ACCESSIBLE FOR ALL OPERATING NEEDS. IF THE
OPERATING NUT IS UNABLE TO BE ACCESSED,
THE CAN MUST BE RESET.

ITEM	DESCRIPTION
1	VALVE COVER, 8" O.D. CAST IRON, HEAVY-DUTY IS STAMPED "WATER"
2	4-PIECE VALVE BOX, CASTINGS, INC. CI-550 OR APPROVED EQUAL
3	2" SQ. OPERATING NUT
4	BUTTERFLY VALVE (FLxFL OR FLxMJ) FOR ALL VALVES 12" OR GREATER
5	GATE VALVE (FLXFL OR FLXMJ) FOR VALVES 6"-10"

APWA STORM DRAIN MANHOLE

-(C)

TYPICAL VALVE DETAIL

OGDEN CITY DETAIL W-11



DRAWING NO.

GC-02

SHEET 17 OF 58

OGDEN CITY
WELL HOUSE

AIRPORT

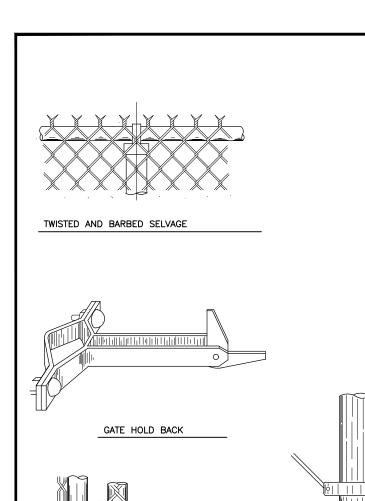
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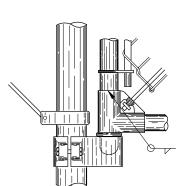
DETAILS

CIVIL

GENERAL

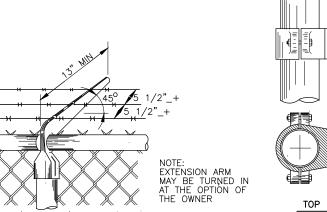


PIPE POST TIE

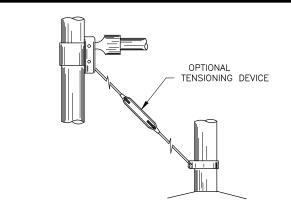


BARBED WIRE ARM WITH TWISTED AND BARBED SELVAGE

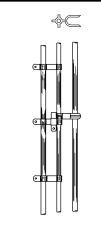








BRACE AND TRUSS CONNECTIONS



DROP ROD ASSEMBLY

		LENGTH OF END CORNER OR PULL POSTS	LENGTH OF LINE POSTS		SIZE OF POSTS (OD)									
HEIGHT OF FABRIC	DEPTH OF POSTS			END CO	RNER & PULL		IN SIZE) *	0.475						
				PIPE OPTION	RECTANGULAR OPTION	PIPE OPTION	H POST OPTION	POST OPTION	POSTS					
6'	3'+	9'+	8'-8"	3"	3 1/2"	2 1/2"	1 7/8" X 1 5/8"	2 1/16" X 1 11/16"	4"					

GATES											
GATE POSTS AND GATE FRAMES											
HEIGHT	GATE OPENING	GATE POST	GATE FRAME								
6 FEET AND OVER	SINGLE TO 6' OR DOUBLE TO 12'	21/2"									
	SINGLE OVER 6' TO 13' OR DOUBLE OVER 12' OR 24'	4"	2"								
	SINGLE OVER 13' TO 18' OR DOUBLE OVER 24' OR 36'	6"									
	SINGLE OVER 18' OR DOUBLE 36'	8"									

- NOTES:

  1. FABRIC, POSTS AND ALL HARDWARE SHALL BE COATED WITH A BLACK VINYL COATING.
- 2. GATES SHALL BE PROVIDED WITH LOCKING DEVICE, PADLOCKS PROVIDED BY THE OWNER. 3. COORDINATE INSTALLATION AND POST SPACING

		3. COOR FOR S	DINATE INSTALLATION AND POST SPACING SLIDE GATE WITH SUPPLIER.	CENTER GATE UNAL POST
CORNER GATE TERMINAL OR PULL POST 10'-0" MAXIMUM LINE PO	© CORNER GATE TERMINAL OR PULL POST  ST   □	20'-0" GATE OPENING	CORNER, CATE TERMINAL OR PULL POST  10'-0" MAXIMUM	LINE POST TERMINAL POST MAXIMUM 10'-0" MAXIMUM
1" OVER NATURAL GROUND 6" OVER CONCRETE UNDER STRUCTURE	1/4" X 3/4" STRETCHER BAR	3,15,18,15,20		9" 12" DIA
12" DIA 9" DIA	ALL POSTS	1'-6" 12" DIA	12" DIA 12"	DOUBLE BAY SEGMENT
BRACES AND TRUSS RODS NOT TYF REQUIRED IN INTERIOR BAYS  TYPICAL MULTIPLE BAY SEGME	NT		TYPICAL SINGLE BAY ELEMENT	

CHAIN LINK FENCE SCALE: NTS

CENTER GATE STOP

AND GATE DETAILS



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					DESCRIPTION	REVISIONS
					REV. BY	

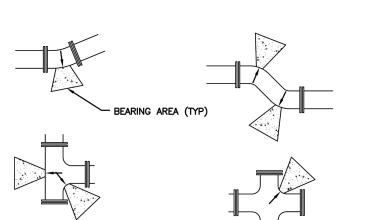
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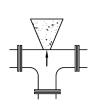
OGDEN AIRPORT WELL HOUS

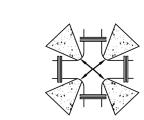
က GENERAL CIVIL DETAILS

DRAWING NO. GC-03

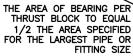
SHEET 18 OF 58











P

4"

6"

8"

12"

14"

16"

20"

24"

30"

TEES, DEAD

4

6.5 9.5

14

24

27

53

81

45

2

3

11

34 | 18.5 | 9.5

62

28.5 14.5

19 | 26.5 | 14.5 | 7.5

3

5.5

20

52

74

114

22

2

1.5

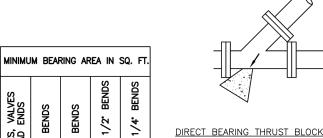
5 2.75 1.5

5.5

41 21 53

32

2



# DIRECT BEARING THRUST BLOCK

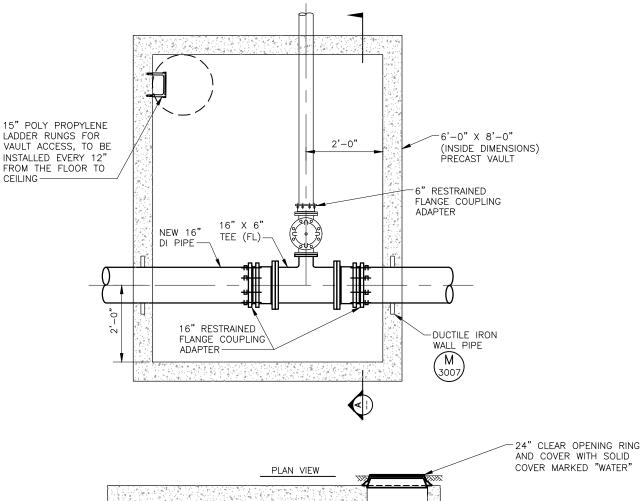
- GENERAL
   A. THRUST DESIGN FOR PIPE SIZES OR CONFIGURATIONS NOT SHOWN REQUIRE SPECIAL DESIGN.
  - B. BEARING AREAS, VOLUMES, AND SPECIAL THRUST BLOCKING DETAILS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER THIS PLAN.
- C. RESTRAINT SIZING IS BASED UPON A MAXIMUM OPERATING PRESSURE OF 150 PSI AND A TEST PRESSURE OF 200 PSI, AND A MINIMUM SOIL BEARING STRENGTH OF 2,000 PSF. OPERATING PRESSURES IN EXCESS OF 15— PSI OR SOILS WITH LESS THAN 2,000 POUND BEARING STRENGTH WILL REQUIRE SPECIAL DESIGN.

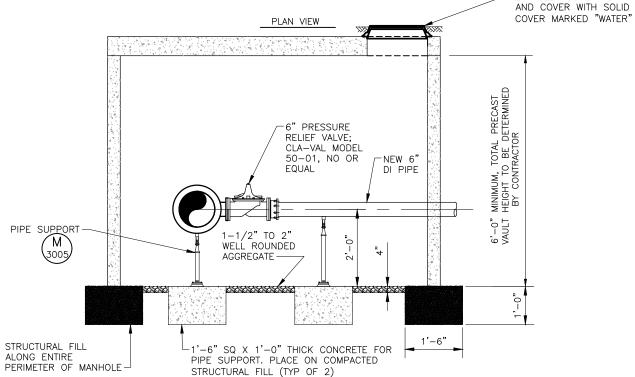
  D. BEFORE BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTION OF
- INSTALLATION BY ENGINEER.
- 2. PRODUCTS
  - A. BASE COURSE: UNTREATED BASE COURSE, APWA SECTION 32 11 23. DO NOT USE GRAVEL AS A BASE COURSE WITHOUT ENGINEER'S PERMISSION.
  - BACKFILL: COMMON FILL, APWA SECTION 31 05 13. MAXIMUM PARTICLE SIZE
  - THRUST BLOCKS: CONCRETE CLASS 4000, APWA SECTION 03 30 04. GREASE: NON-OXIDE POLY-FM.
- 3. EXECUTION
  - POUR CONCRETE AGAINST UNDISTURBED SOIL.
  - PIPE JOINTS: DO NOT COVER WITH CONCRETE. LEAVE COMPLETELY ACCESSIBLE.
  - GREASE: APPLY GREASE TO ALL BURIED METAL SURFACES. WRAP WITH POLYETHYLENE SHEET AND TAPE WRAP.

  - POLYEINTLENE SHEET AND TAPE WRAP.

    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% OR GREATER RELATIVE TO A MODIFIED PROCTOR DENSITY, APWA SECTION 31 23 26.





PRESSURE RELIEF VALVE VAULT

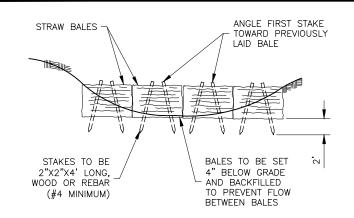


DETAILS CIVIL GENERAL

DRAWING NO. GC-04 SHEET 19 OF 58

OGDEN CITY
WELL HOUSE PROJECT

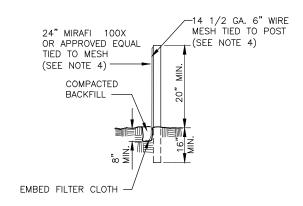
**OGDEN AIRPORT** 



# NOTES:

- STRAW BALES TO BE REPLACED AS NECESSARY DUE TO DAMAGE OR CLOGGING WITH SILT. SILT TO BE REMOVED IN FRONT OF BALES REGULARLY TO PREVENT EXCESSIVE SOIL BEARING WEIGHT ON THE BALES.
- 2. STRAW BALES TO BE PLACED ON EXISTING GRADE IN UNDISTURBED AREAS.



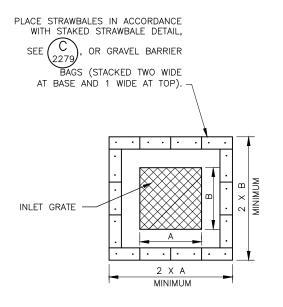


## NOTES:

- 1. POSTS SPACED 10' O.C. MAX.
- 2. FILTER CLOTH TO BE TIED TO MESH EVERY 24" AT TOP AND MIDDLE WITH 6" FOLDED OVERLAP AT VERTICAL SEAMS.
- . FENCE SHALL BE MAINTAINED AND ACCUMULATED MATERIAL REMOVED.
- . CONTRACTOR MAY SECURE SILT FENCE FILTER CLOTH TO CHAIN LINK CONSTRUCTION FENCE WHERE APPLICABLE. IN INSTANCES WHERE FILTER CLOTH IS SECURED TO CHAIN LINK FENCE, WIRE MESH IS NOT REQUIRED. IF FILTER CLOTH IS NOT SECURED TO CHAIN LINK FENCE, IT MUST BE ATTACHED TO WIRE MESH PER THE DETAIL.

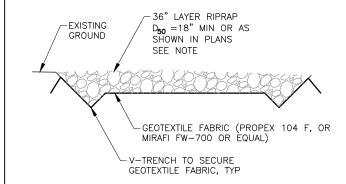






PLAN VIEW





NOTE: WHEN D<sub>50</sub>=6", PROVIDE 18" LAYER RIPRAP, SEE PLAN FOR LOCATION.

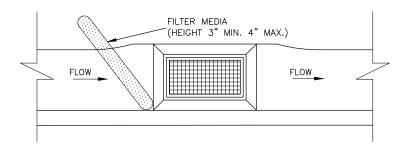
RIPRAP & ARMOR PROTECTION (SCALE: NTS



PROJECT

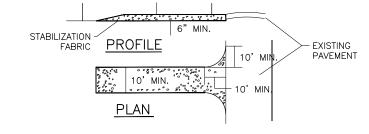
HOUSE

OGDEN CITY
WELL



## NOTES:

- PREPARE FILTER MEDIA (GRAVEL SOCK, STRAW WADDLE, OR OTHER APPROVED MEDIA) IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- INSTALL FILTER MEDIA JUST UPSTREAM OF INLET BOX.
   FILTER MEDIA SHALL BUTT TIGHTLY AGAINST THE FACE OF THE CURB AND ANGLE AT APPROXIMATELY A 45 DEGREE ANGLE AWAY FROM THE CURB TO TRAP RUNOFF BETWEEN THE MEDIA AND THE CURB.
- EXPECT PONDING BEHIND THE FILTER MEDIA
- 5. INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT A MINIMUM OF ONCE MONTHLY.
- 6. REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 2
- 7. REPLACE FILTER MEDIUM WHEN DAMAGE HAS OCCURRED OR WHEN MEDIUM IS NO LONGER FUNCTIONING AS INTENDED.



# CONSTRUCTION NOTES:

- 1. STONE SIZE USE 2" STONE, OR RECLAIMED CONCRETE EQUIVALENT.
- 2. LENGTH AS REQUIRED, BUT NOT LESS THAN 50 FEET ( EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- STABILIZATION FABRIC WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
   SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SIDE SLOPES WILL BE PERMITTED.
- MOUNTABLE BERM WITH 5:1 SIDE SLOPES WILL BE PERMITTED.

  7. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS—OF—WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED
- DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS—OF—WAY MUST BE REMOVED

  8. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO
  PUBLIC RIGHTS—OF—WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA
  STABILIZED WITH STONE AND WHICH DRAINS TO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

ON-GRADE INLET PROTECTION DETAIL C 2290

STABILIZED CONSTRUCTION ENTRANCE CONSTRUCTION ENTRANCE

GENERAL CIVIL DETAILS - 5

E. FEBRUARY 2020

GODDEN AIRPORT

DESIGN

D

DRAWING NO.

GC-05

SHEET 20 OF 58

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