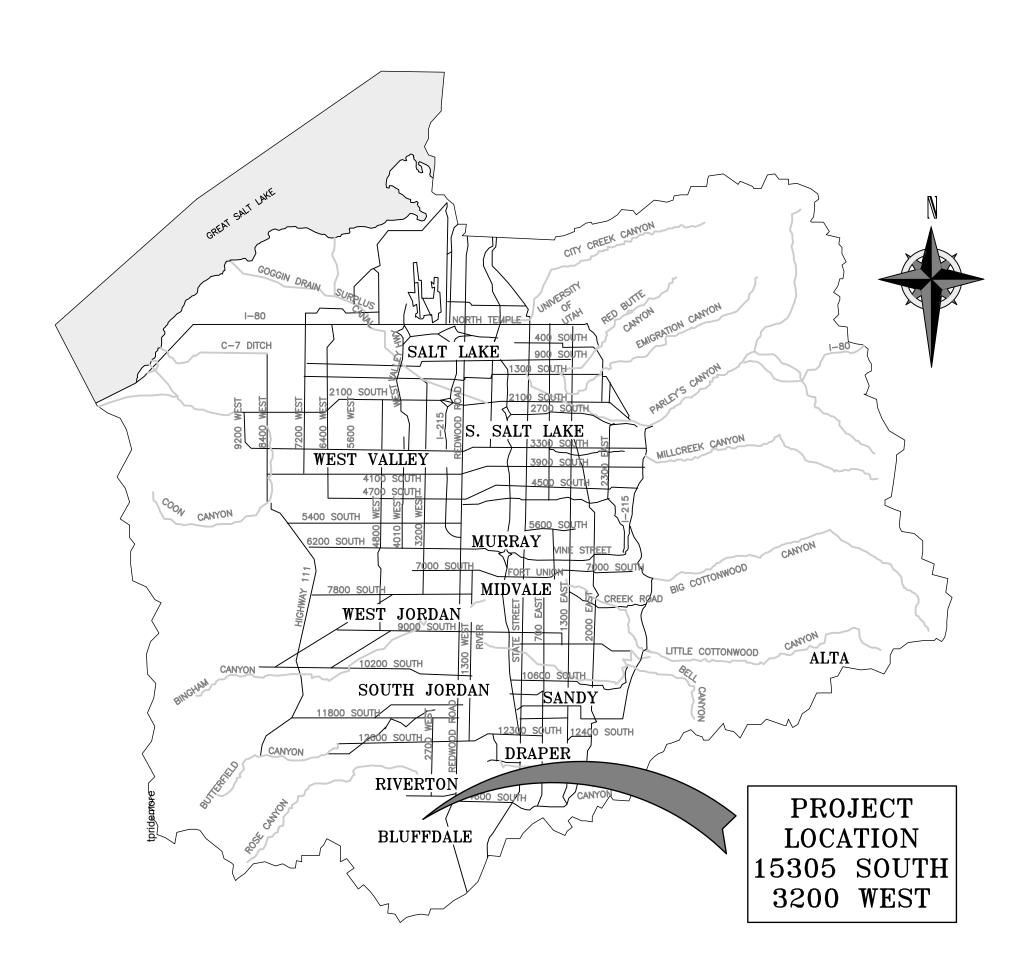


JORDAN VALLEY WATER TREATMENT PLANT **AIR SCOUR PIPE REPLACEMENT JORDAN VALLEY PROJECT 4070**

PROJECT VICINITY



VOLUME III OF III FINAL BID SET **APRIL 2019**



DRAWING INDEX

COVER SHEET

DWG NO. DWG TITLE

G-000

2

D	

GENERAL

SHEET NO.

2.	G-001	DRAWING INDEX AND EQUIPMENT SCHEDULES
3.	G-002	STANDARD SYMBOLS AND ABBREVIATIONS, AND GENERAL NOTES
CIVIL		
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4.	GC-001	SITE PLAN AND GENERAL NOTES
MECHANICAL		
SHEET NO.	DWG NO.	DWG TITLE
5.	GM-001	FILTER GALLERY OVERVIEW AND GENERAL NOTES
6.	2M-101	WEST FILTER GALLERY
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ELECTRICAL		
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15.	E-001	ELECTRICAL LEVEL 1

FLUID ABBREVIATIONS

ELECTRICAL LEVEL 2

AW - FILTER AIR WASH (AIR SCOUR)

AWR = AIR WASH RELIEF

E-002

BW - FILTER BACKWASH

CF - CUBIC FEET

16.

FW - FILTERED WATER

IA - INSTRUMENT AIR

1

PW - POTABLE WATER

UW - UTILITY WATER (NON-POTABLE WATER)

2

CHECK AND PRESSURE RELIEF VALVE SCHEDULE

VALVE SCHEDULE					
VALVE NO. LOCATION SIZE [INCHES] TYPE REMARKS					
CV-112	BLOWER ROOM EAST BLOWER	16	DOUBLE-LEAF FLAPPER CHECK	PROVIDE AND INSTALL	
CV-212	BLOWER ROOM WEST BLOWER	16	DOUBLE-LEAF FLAPPER CHECK	PROVIDE AND INSTALL	
PRF-112	BLOWER ROOM EAST BLOWER	8	PRESSURE RELIEF VALVE	REMOVE AND INSTALL NEW VALVE PROVIDED BY OWNER	
PRF-212	BLOWER ROOM WEST BLOWER	8	PRESSURE RELIEF VALVE	REMOVE AND INSTALL NEW VALVE PROVIDED BY OWNER	

PIPE SCHEDULE

		F	PIPE SCHEDULE		
		PIPE MATERIALS ^{1,2}		FIELD TEST REQUIREM	
FUNCTION	6" DIAMETER AND SMALLER	6-1/2" DIAMETER AND LARGER	PIPE FITTINGS	MINIMUM TEST PRESSURE, PSI	TEST MEDIUM
AIR WASH (AIR SCOUR)	316L STAINLESS STEEL, ASTM A312, SCH 10S (FLANGED) OR SCH 40S (GROOVED)	316L STAINLESS STEEL, ASTM A312, SCH 10S (FLANGED) OR SCH 40S (GROOVED)	316L STAINLESS STEEL, ANSI B16.9, ANSI B16.5, 150 LB FLAT-FACE FLANGE, OR SCH 40 S GROOVED WITH VICTAULIC COUPLING WHERE SHOWN.	25	AIR
AIR WASH RELIEF	316L STAINLESS STEEL, ASTM A312, SCH 10S (FLANGED) OR SCH 40S (GROOVED)	-	316L STAINLESS STEEL, ANSI B16.9, ANSI B16.5, 150 LB FLAT-FACE FLANGE, OR SCH 40 S GROOVED WITH VICTAULIC COUPLING WHERE SHOWN.	25	AIR
DRAIN	316L STAINLESS STEEL, ASTM A312, SCH 10S (FLANGED) OR SCH 40S (GROOVED OR THREADED)	-	316L STAINLESS STEEL, ANSI B16.11, SCREW FITTINGS	-	-

2. PROVIDE SILICONE-BROINZE NOTS FOR ALL STAINLESS STEEL BOLT

BUTTERFLY VALVE SCHEDULE

BUTTERFLY VALVE SCHEDULE						
VALVE NO.	LOCATION	SIZE [INCHES]	OPERATOR	VOLTAGE/PH	REMARKS	
FAV-3004	FILTER 1	16	ELECTRIC	480/3	2,3	
FAV-3024	FILTER 2	16	ELECTRIC	480/3	2,3	
FAV-3044	FILTER 3	16	ELECTRIC	480/3	2,3	
FAV-3064	FILTER 4	16	ELECTRIC	480/3	2,3	
FAV-3084	FILTER 5	16	ELECTRIC	480/3	2,3	
FAV-3104	FILTER 6	16	ELECTRIC	480/3	2,3	
FAV-3124	FILTER 7	14	ELECTRIC	480/3	1,4	
FAV-3144	FILTER 8	14	ELECTRIC	480/3	1,4	
FAV-3164	FILTER 9	14	ELECTRIC	480/3	1,4	
FAV-3184	FILTER 10	14	ELECTRIC	480/3	1,4	
FAV-3204	FILTER 11	14	ELECTRIC	480/3	1,4	
FAV-3224	FILTER 12	14	ELECTRIC	480/3	1,4	
FAV-3244	FILTER 13	14	ELECTRIC	480/3	1,4	
FAV-3264	FILTER 14	14	ELECTRIC	480/3	1,4	
FAV-3284	FILTER 15	14	ELECTRIC	480/3	1,4,5	
FAV-3304	FILTER 16	14	ELECTRIC	480/3	1,4	
FVV-3003	AIR RELIEF FILTER 1	6	ELECTRIC	120/1	2,3	
FVV-3023	AIR RELIEF FILTER 2	6	ELECTRIC	120/1	2,3	

FVV-3043	AIR RELIEF FILTER 3	6	E
FVV-3063	AIR RELIEF FILTER 4	6	E
FVV-3083	AIR RELIEF FILTER 5	6	E
FVV-3103	AIR RELIEF FILTER 6	6	E
FVV-3123	AIR RELIEF FILTER 7	6	E
FVV-3143	AIR RELIEF FILTER 8	6	E
FVV-3163	AIR RELIEF FILTER 9	6	E
FVV-3183	AIR RELIEF FILTER 10	6	E
FVV-3203	AIR RELIEF FILTER 11	6	E
FVV-3223	AIR RELIEF FILTER 12	6	E
FVV-3243	AIR RELIEF FILTER 13	6	E
FVV-3263	AIR RELIEF FILTER 14	6	E
FVV-3283	AIR RELIEF FILTER 15	6	E
FVV-3303	AIR RELIEF FILTER 16	6	E
BV-112	BLOWER ROOM EAST BLOWER	16	MA
BV-212	BLOWER ROOM WEST BLOWER	16	MAI

REMARKS:

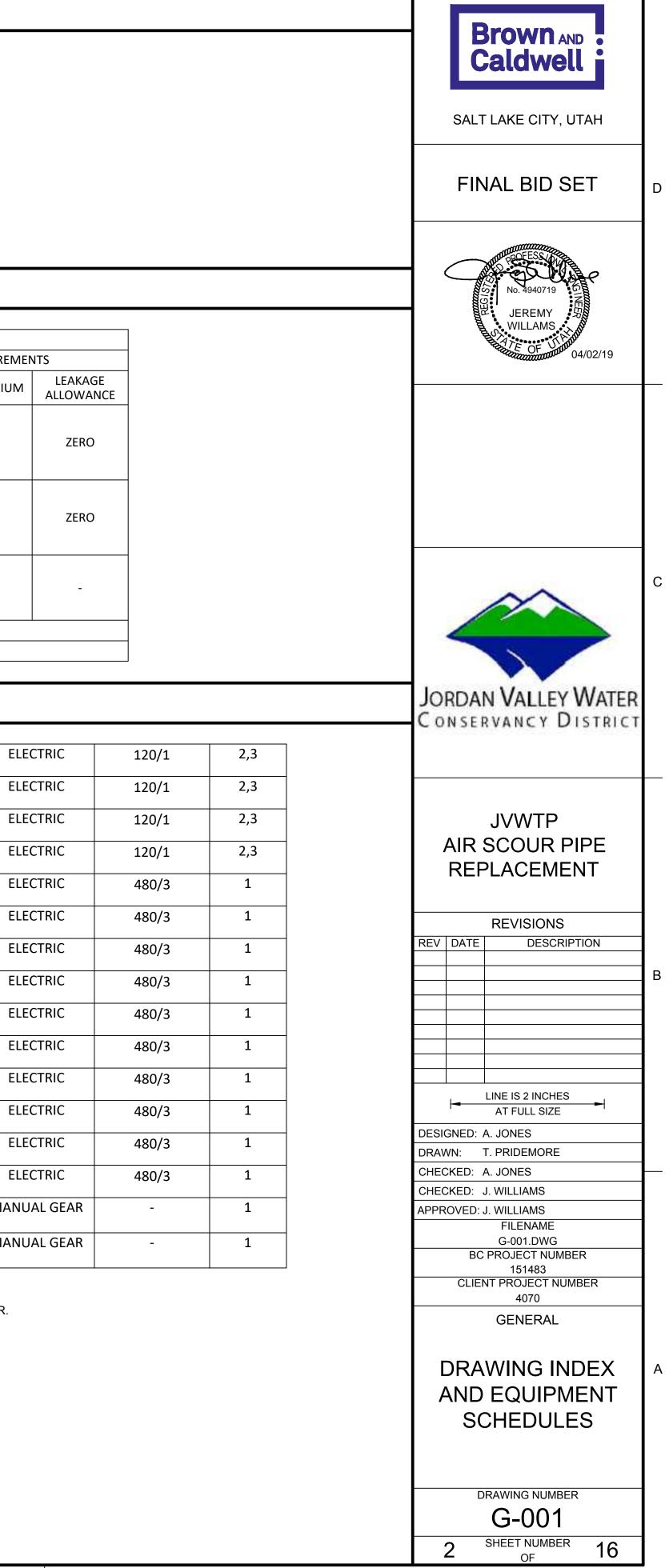
1. PROVIDE AND INSTALL NEW VALVE AND ACTUATOR.

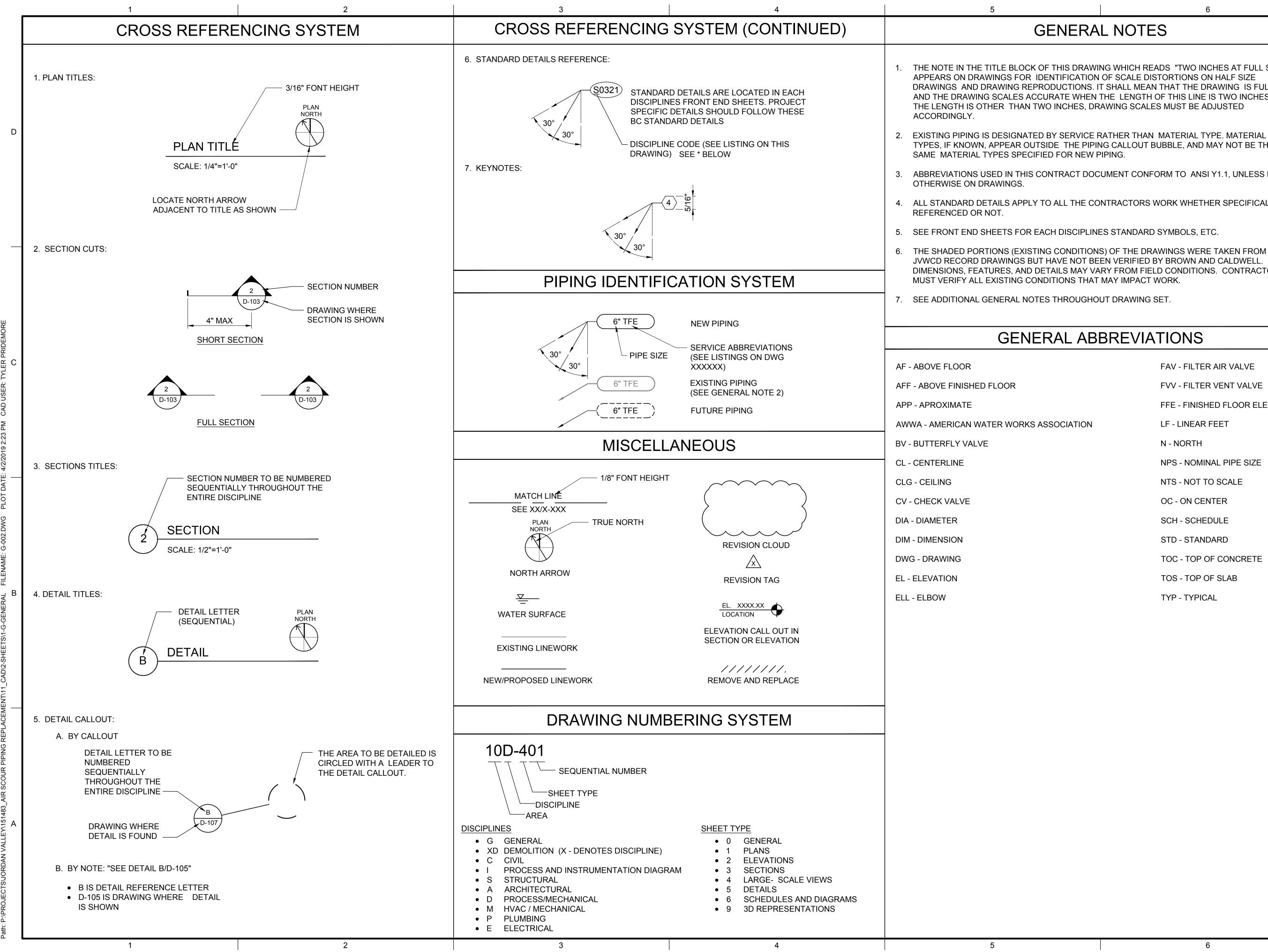
REMOVE AND REINSTALL ACTUATOR. 2.

PROVIDE AND INSTALL NEW VALVE. 3.

PROVIDE CHAIN-WHEEL OPERATOR. 4.

SALVAGE VALVE AND ACTUATOR TO OWNER. 5.





GENERAL NOTES

1. THE NOTE IN THE TITLE BLOCK OF THIS DRAWING WHICH READS "TWO INCHES AT FULL SCALE" APPEARS ON DRAWINGS FOR IDENTIFICATION OF SCALE DISTORTIONS ON HALF SIZE DRAWINGS AND DRAWING REPRODUCTIONS. IT SHALL MEAN THAT THE DRAWING IS FULL SIZE AND THE DRAWING SCALES ACCURATE WHEN THE LENGTH OF THIS LINE IS TWO INCHES. IF

TYPES, IF KNOWN, APPEAR OUTSIDE THE PIPING CALLOUT BUBBLE, AND MAY NOT BE THE

3. ABBREVIATIONS USED IN THIS CONTRACT DOCUMENT CONFORM TO ANSI Y1.1, UNLESS NOTED

4. ALL STANDARD DETAILS APPLY TO ALL THE CONTRACTORS WORK WHETHER SPECIFICALLY

JVWCD RECORD DRAWINGS BUT HAVE NOT BEEN VERIFIED BY BROWN AND CALDWELL. DIMENSIONS, FEATURES, AND DETAILS MAY VARY FROM FIELD CONDITIONS. CONTRACTOR

GENERAL ABBREVIATIONS

FAV - FILTER AIR VALVE

FVV - FILTER VENT VALVE

FFE - FINISHED FLOOR ELEVATION

LF - LINEAR FEET

N - NORTH

NPS - NOMINAL PIPE SIZE

NTS - NOT TO SCALE

OC - ON CENTER

SCH - SCHEDULE

STD - STANDARD

TOC - TOP OF CONCRETE

TOS - TOP OF SLAB

TYP - TYPICAL

FINAL BID SET JEREMY WILLAMS JORDAN VALLEY WATER CONSERVANCY DISTRIC JVWTP **AIR SCOUR PIPE** REPLACEMENT REVISIONS DESCRIPTION REV DATE

Brown AND

Caldwell

SALT LAKE CITY, UTAH

LINE IS 2 INCHES AT FULL SIZE DESIGNED: A. JONES DRAWN: T. PRIDEMORE CHECKED: A. JONES CHECKED: J. WILLIAMS APPROVED: J. WILLIAMS FILENAME G-002.DWG BC PROJECT NUMBER 151483 CLIENT PROJECT NUMBER 4070 GENERAL STANDARD

SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES DRAWING NUMBER G-002 SHEET NUMBER 16 3 OF



NOTES

1.	THE CONTRACTOR SHALL STAGE AND STORE
	ALL PIPE AND EQUIPMENT IN THE DESIGNATED
	STAGING AREA.

2. THE CONTRACTOR SHALL ACCESS THE WORK FROM THE ROLL UP DOOR IN THE NORTH-WEST CORNER OF THE CONTROL BUILDING, OR THE ROLL UP DOOR ON THE NORTH SIDE OF THE FILTER BUILDING. ADDITIONAL ACCESS FOR AIR VENT PIPING AND VENT VALVE REPLACEMENT AT WESTERN-MOST DOCK ON LEVEL 2, SOUTH SIDE OF FILTER BUILDING. WORK BY OTHERS MAY TAKE PLACE IN THIS AREA AT THE SAME TIME AS THIS WORK; COORDINATE WITH OTHERS FOR ACCESS DURING CONSTRUCTION.

\bigcirc KEY NOTES:

- 1. STAGING AND CONTRACTOR PARKING AREA
- 2. BUILDING ACCESS
- 3. SITE ACCESS ALL DELIVERIES SHALL BE VIA THIS ENTRANCE.

O BUILDING INDEX

- A. SEDIMENTATION BASINS
- B. FILTER BUILDING
- C. CHEMICAL/CONTROL BUILDING

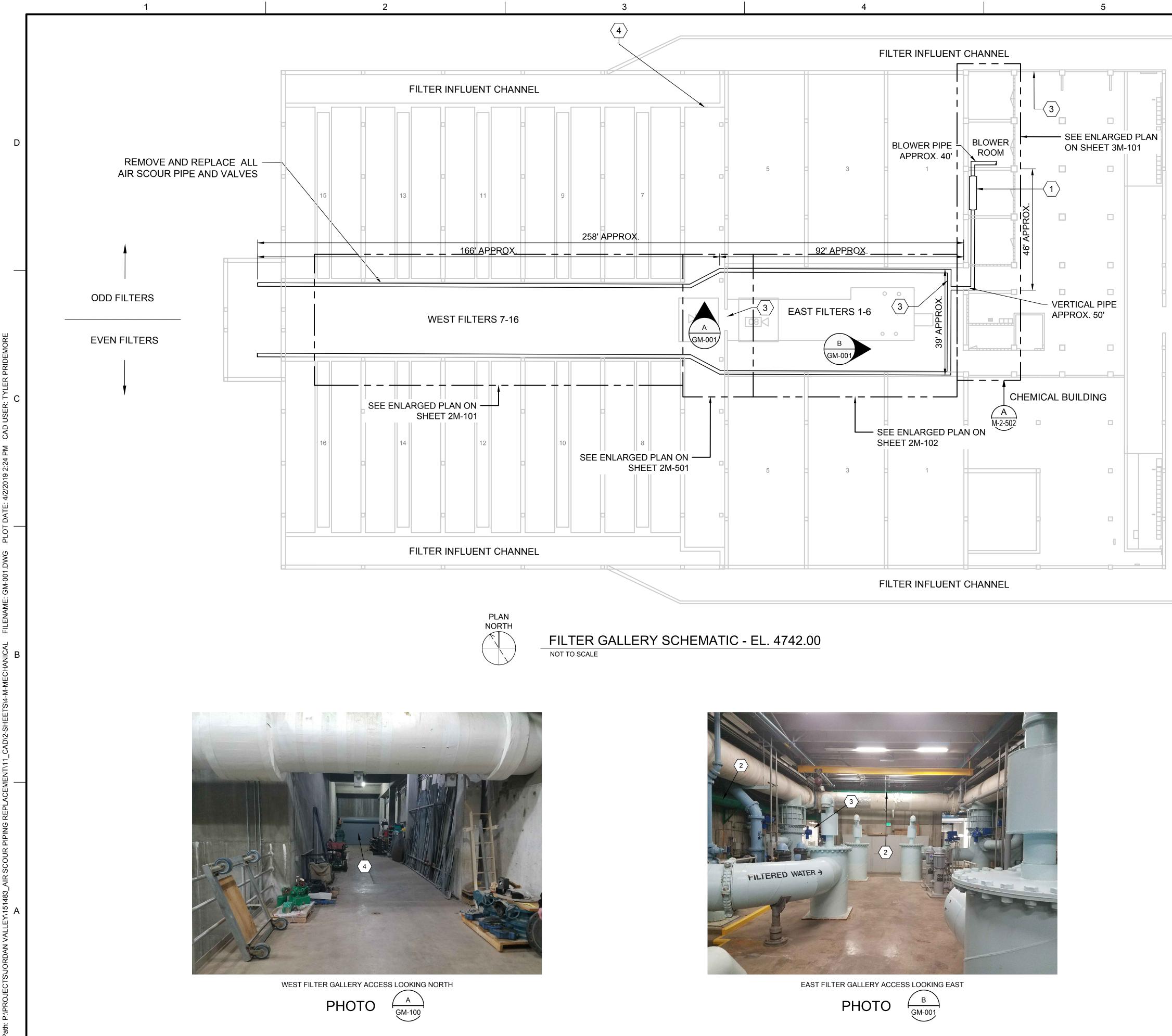
Brown AND Caldwell SALT LAKE CITY, UTAH FINAL BID SET EREMY WILLAMS JORDAN VALLEY WATER CONSERVANCY DISTRICT JVWTP AIR SCOUR PIPE REPLACEMENT REVISIONS REV DATE DESCRIPTION LINE IS 2 INCHES AT FULL SIZE -DESIGNED: A. JONES DRAWN: T. PRIDEMORE CHECKED: A. JONES CHECKED: ----APPROVED: J. WILLIAMS FILENAME GC-001.DWG BC PROJECT NUMBER 151483 CLIENT PROJECT NUMBER 4070 CIVIL OVERALL SITE PLAN A AND STAGING AREA DRAWING NUMBER

GC-001

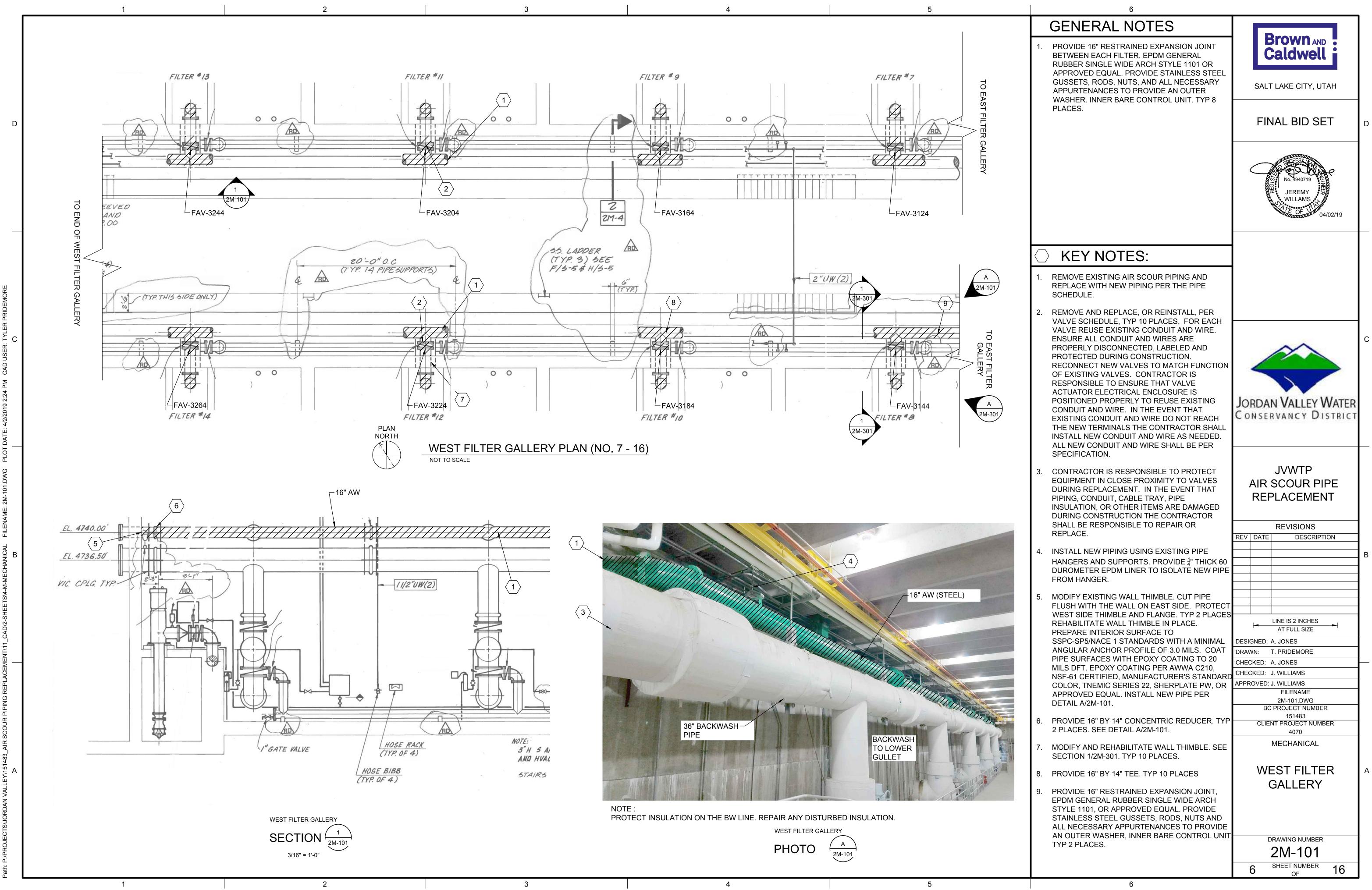
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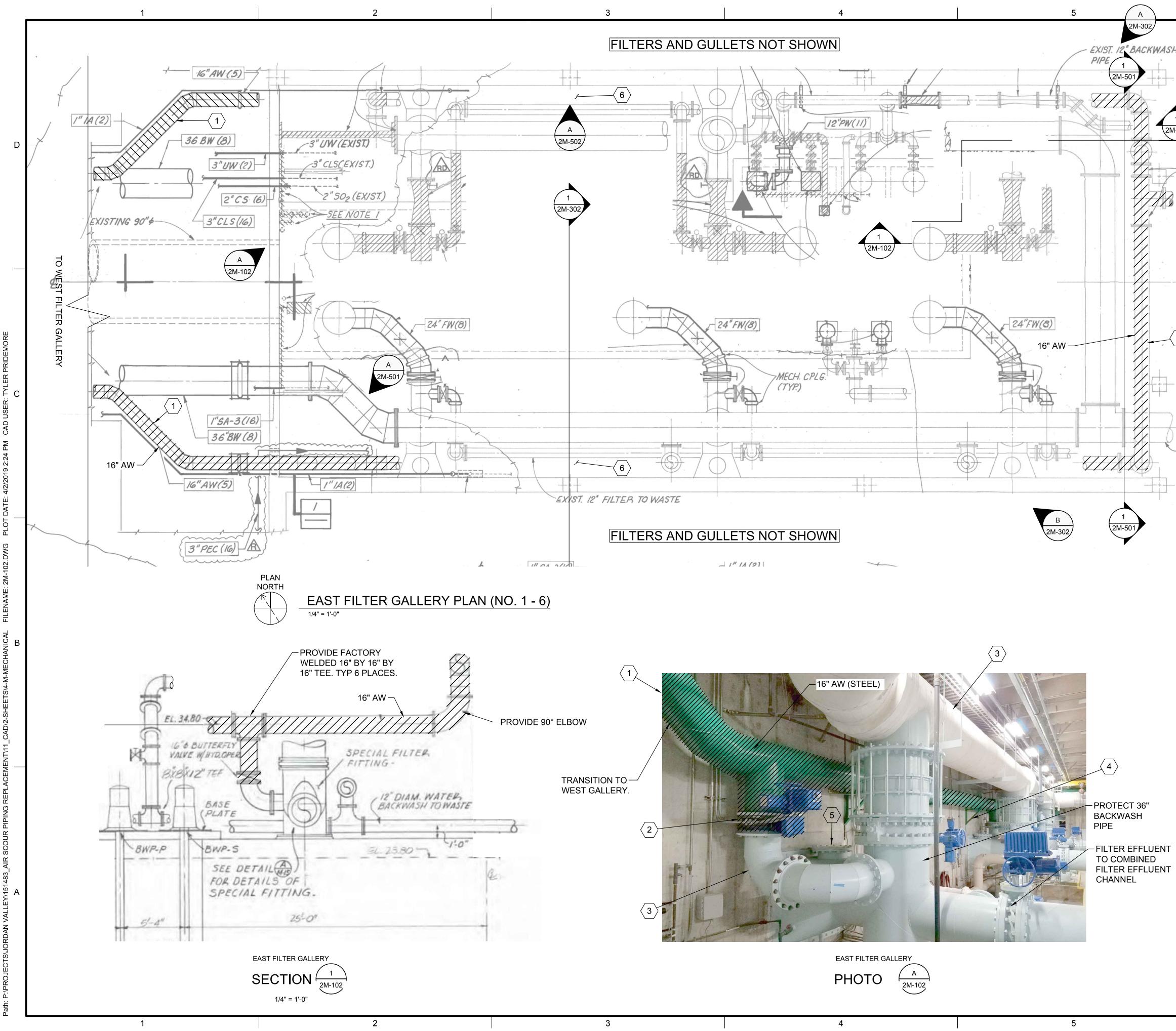
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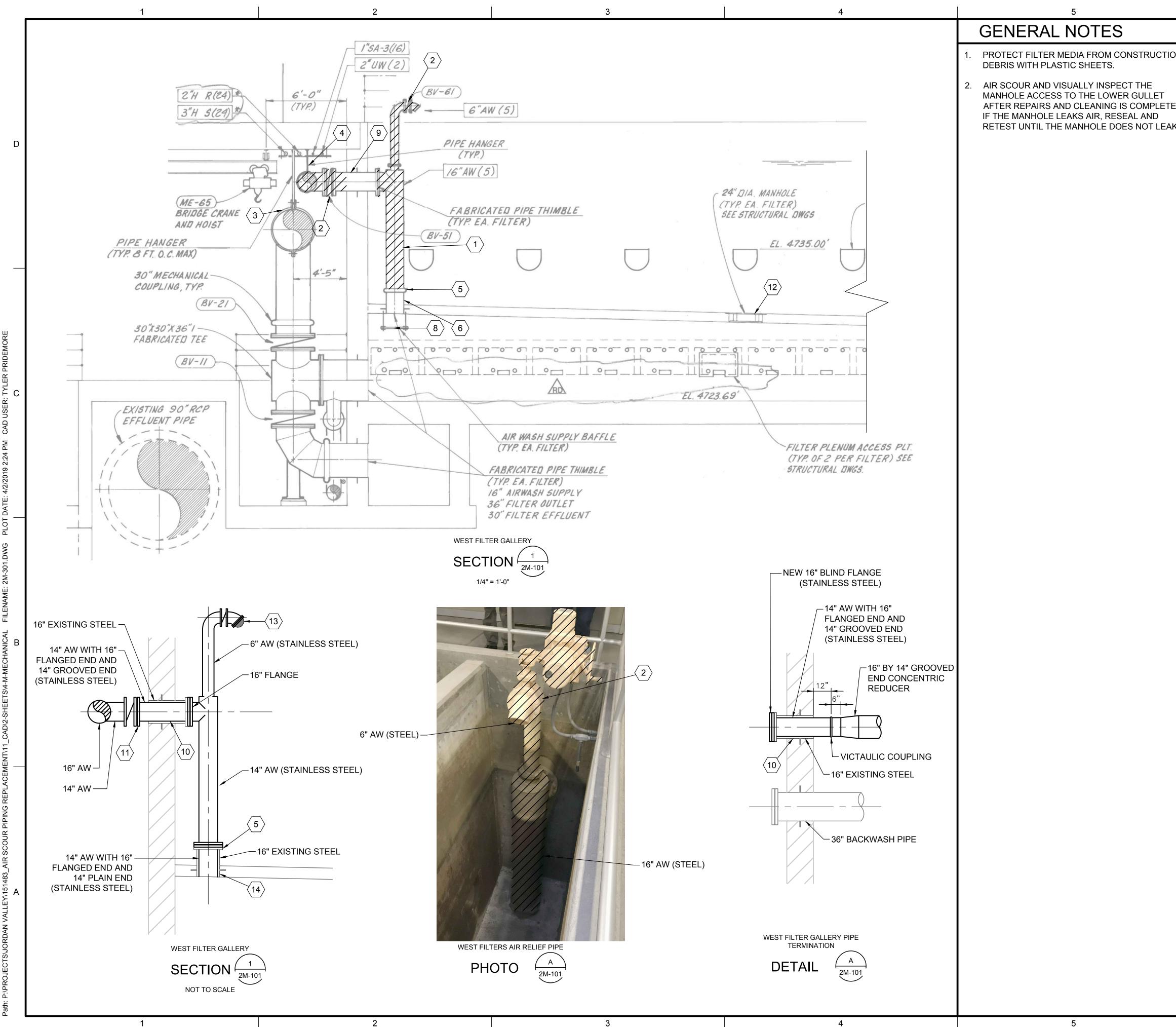


	6		
	GENERAL NOTES		
1.	DIMENSIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY PIPE LENGTHS BY TAKING FIELD MEASUREMENTS BEFORE PROCURING NEW PIPE. THE FOLLOWING LENGTHS ARE APPROXIMATE: 16" PIPE - 700 FEET 14" PIPE - 115 FEET 6" PIPE - 175 FEET	Brown and Caldwell SALT LAKE CITY, UTAH	
2.	CONTRACTOR SHALL FIELD VERIFY PHYSICAL LOCATION, ELEVATIONS, AND INVERTS. INFORMATION SHOWN IS APPROXIMATE. PROVIDE SHOP DRAWINGS BEFORE FABRICATION OF PIPE.	FINAL BID SET	D
3.	THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPE, VALVES, COUPLINGS, ADAPTERS, AND FITTINGS REQUIRED TO COMPLETE THE WORK.	JEREMY WILLAMS	
4.	PROVIDE AN NSF-61 CERTIFIED FULL FACE ISOLATION GASKET WITH ISOLATION SLEEVES AND WASHERS AT ALL FLANGED CONNECTIONS BETWEEN DUCTILE IRON/ CARBON STEEL AND STAINLESS STEEL PIPES. GASKETS MUST BE RATED FOR A MINIMUM 200 DEGREES FAHRENHEIT AT 25 PSI.	64/02/19	
5.	GASKETS IN THE WEST FILTER GALLERY MAY CONTAIN ASBESTOS; ALL OTHER GASKETS CONTAIN ASBESTOS. USE A CERTIFIED SUBCONTRACTOR TO REMOVE AND DISPOSE OF ALL ASBESTOS CONTAINING GASKETS ACCORDING TO FEDERAL AND LOCAL REGULATIONS		С
6.	FIELD WELDING, CUTTING, AND GROOVING OF STAINLESS STEEL PIPE AND FITTINGS IS NOT ALLOWED.		
7.	INSTALL NEW PIPING USING EXISTING PIPE HANGERS AND SUPPORTS. PROVIDE $\frac{1}{4}$ " THICK, 60 DUROMETER EPDM LINER TO ISOLATE NEW PIPE FROM HANGER.	JORDAN VALLEY WATER CONSERVANCY DISTRICT	
8.	FOR ALL REHABILITATION COATING, COORDINATE WITH OWNER TO CHOOSE MANUFACTURER STANDARD COLOR.		
9.	CLEAN EACH LENGTH OF PIPE AS SPECIFIED BEFORE INSTALLATION. CAP PIPE IMMEDIATELY AFTER INSTALLATION TO MAINTAIN PIPE CLEANLINESS.	JVWTP AIR SCOUR PIPE REPLACEMENT	
$\left(\right)$	KEY NOTES:	REVISIONS	
1.	REPLACE SILENCER WITH NEW SILENCER PROVIDED BY OWNER.	REV DATE DESCRIPTION	В
2.	AIR SCOUR PIPE.		
3.	EAST FILTER GALLERY ACCESS.		
4.	WEST FILTER GALLERY ACCESS.		
		AT FULL SIZE	
		DESIGNED: A. JONES DRAWN: T. PRIDEMORE	
		CHECKED: A. JONES CHECKED: J. WILLAIMS	
		APPROVED: J. WILLIAMS FILENAME	
		GM-001.DWG BC PROJECT NUMBER	
		151483 CLIENT PROJECT NUMBER	
		4070 MECHANICAL	
		FILTER GALLERY OVERVIEW AND GENERAL NOTES	А
		DRAWING NUMBER	
1		5 SHEET NUMBER 16	

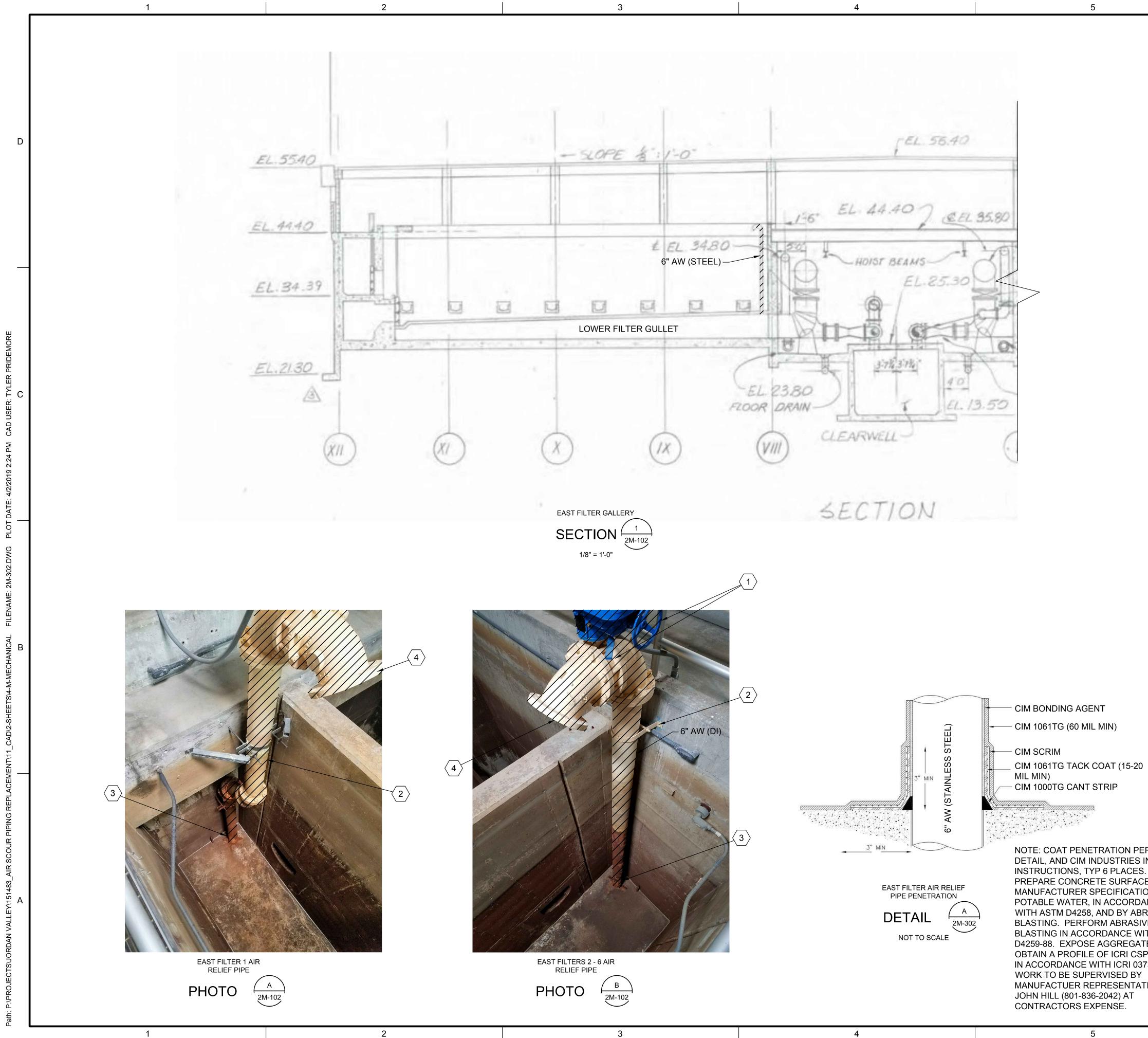




	6		
	GENERAL NOTES		
1 M-102	1. PROVIDE 16" RESTRAINED EXPANSION JOINT BETWEEN EACH FILTER, EPDM GENERAL RUBBER SINGLE WIDE ARCH STYLE 1101, OR APPROVED EQUAL. PROVIDE STAINLESS STEEL GUSSETS, RODS, NUTS, AND ALL NECESSARY APPURTENANCES TO PROVIDE AN OUTER WASHER, INNER BARE CONTROL UNIT. TYP 4 PLACES.	SALT LAKE CITY, UTAH	D
B	 PROVIDE LATERAL AND LONGITUDINAL SEISMIC BRACING IN EAST GALLERY, EVERY 25 FEET AS SPECIFIED. ANCHOR BRACING PER DETAIL B/2M-502, AND AS SPECIFIED. 	No. 4940719 JEREMY WILLAMS 04/02/19	
			С
) EX	1. REMOVE EXISTING AIR SCOUR PIPING AND REPLACE WITH NEW PIPING PER THE PIPE SCHEDULE.		
PI	2. REMOVE AND REPLACE, OR REINSTALL, PER VALVE SCHEDULE, TYP 6 PLACES. FOR EACH VALVE REUSE EXISTING CONDUIT AND WIRE. ENSURE ALL CONDUIT AND WIRES ARE PROPERLY DISCONNECTED, LABELED AND PROTECTED DURING CONSTRUCTION. RECONNECT NEW VALVES TO MATCH FUNCTION OF EXISTING VALVES. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT VALVE ACTUATOR ELECTRICAL ENCLOSURE IS POSITIONED PROPERLY TO REUSE EXISTING CONDUIT AND WIRE. IN THE EVENT THAT EXISTING CONDUIT AND WIRE DO NOT REACH THE NEW TERMINALS THE CONTRACTOR SHALL	JORDAN VALLEY WATER CONSERVANCY DISTRICT JVWTP AIR SCOUR PIPE REPLACEMENT	
	INSTALL NEW CONDUIT AND WIRE AS NEEDED. ALL NEW CONDUIT AND WIRE SHALL MATCH BE PER SPECIFICATION.	REVISIONS REV DATE DESCRIPTION	
	3. CONTRACTOR IS RESPONSIBLE TO PROTECT EQUIPMENT IN CLOSE PROXIMITY TO VALVES DURING REPLACEMENT. IN THE EVENT THAT PIPING, CONDUIT, CABLE TRAY, PIPE INSULATION, OR OTHER ITEMS ARE DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE.		В
	4. INSTALL NEW PIPING USING EXISTING PIPE HANGERS AND SUPPORTS. PROVIDE $\frac{1}{4}$ " THICK 60 DUROMETER EPDM LINER TO ISOLATE NEW PIPE FROM HANGER.	AT FULL SIZEDESIGNED: A. JONESDRAWN:T. PRIDEMORECHECKED:A. JONES	
	5. REMOVE BLIND FLANGE TO ACCESS THE LOWER GULLET; COORDINATE WITH ABATEMENT SUBCONTRACTOR TO REMOVE THE BLIND FLANGE, THE GASKET, AND REMEDIATE THE FLANGE. INSPECT AND CLEAN THE ENTIRE LOWER GULLET OF ALL DEBRIS, TYP 6 PLACES. ALL PERSONNEL SHALL USE A CLEAN TYVEK SUIT AND BOOTS. CLEAN AND DISINFECT WORK SUITS AND EQUIPMENT WITH 200 PPM CHLORINE SOLUTION BEFORE ENTERING THE LOWER GULLET. DISINFECT THE LOWER GULLET AS SPECIFIED.	CHECKED: J. WILLIAMS APPROVED: J. WILLIAMS FILENAME 2M-102.DWG BC PROJECT NUMBER 151483 CLIENT PROJECT NUMBER 4070 MECHANICAL EAST FILTER GALLERY	А
	6. REPLACE TEMPORARY DRAIN LINE WITH NEW STAINLESS STEEL DRAIN LINE. SEE DETAIL A/2M-502.		
		DRAWING NUMBER	
		7 SHEET NUMBER 16	

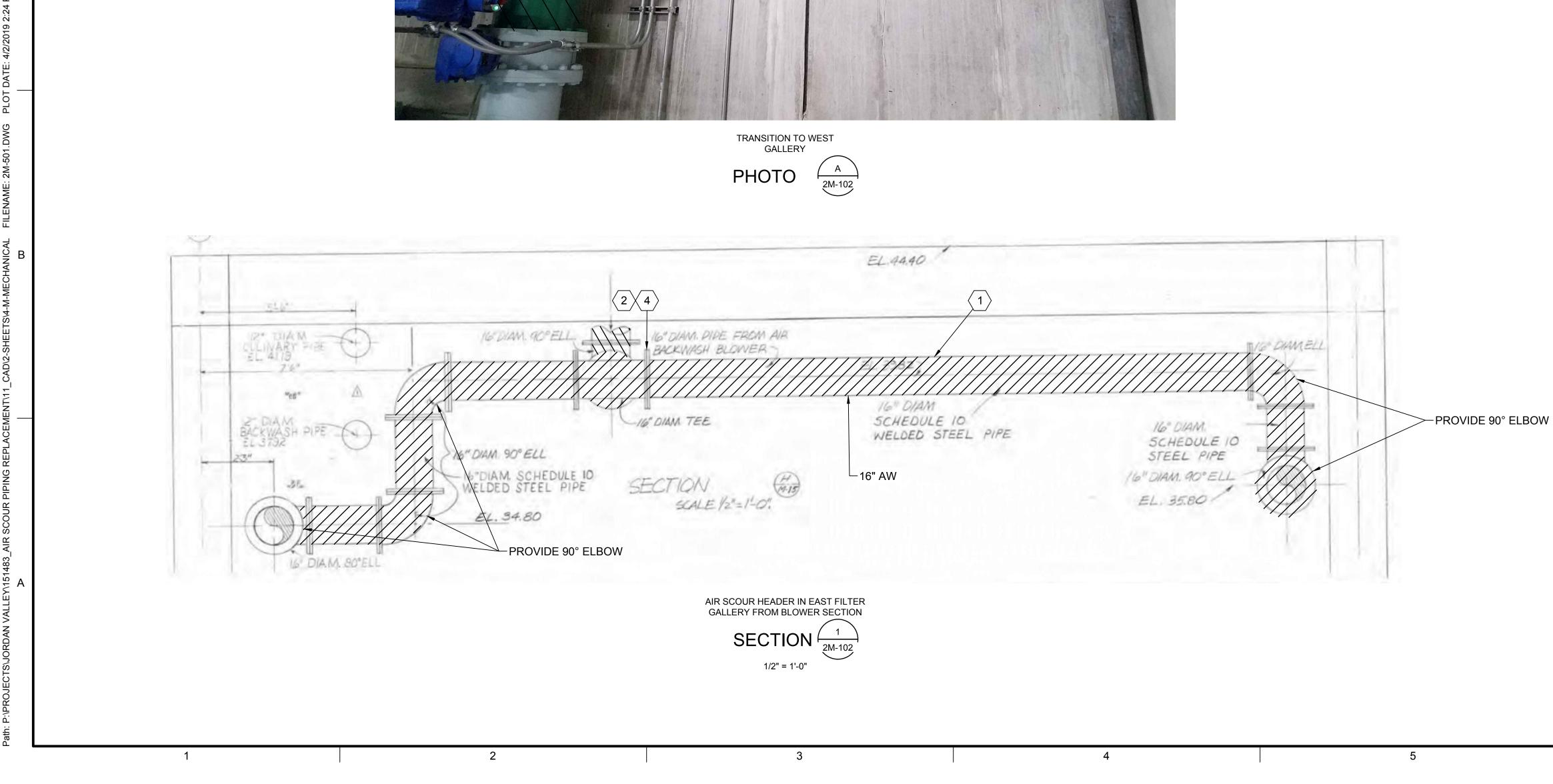


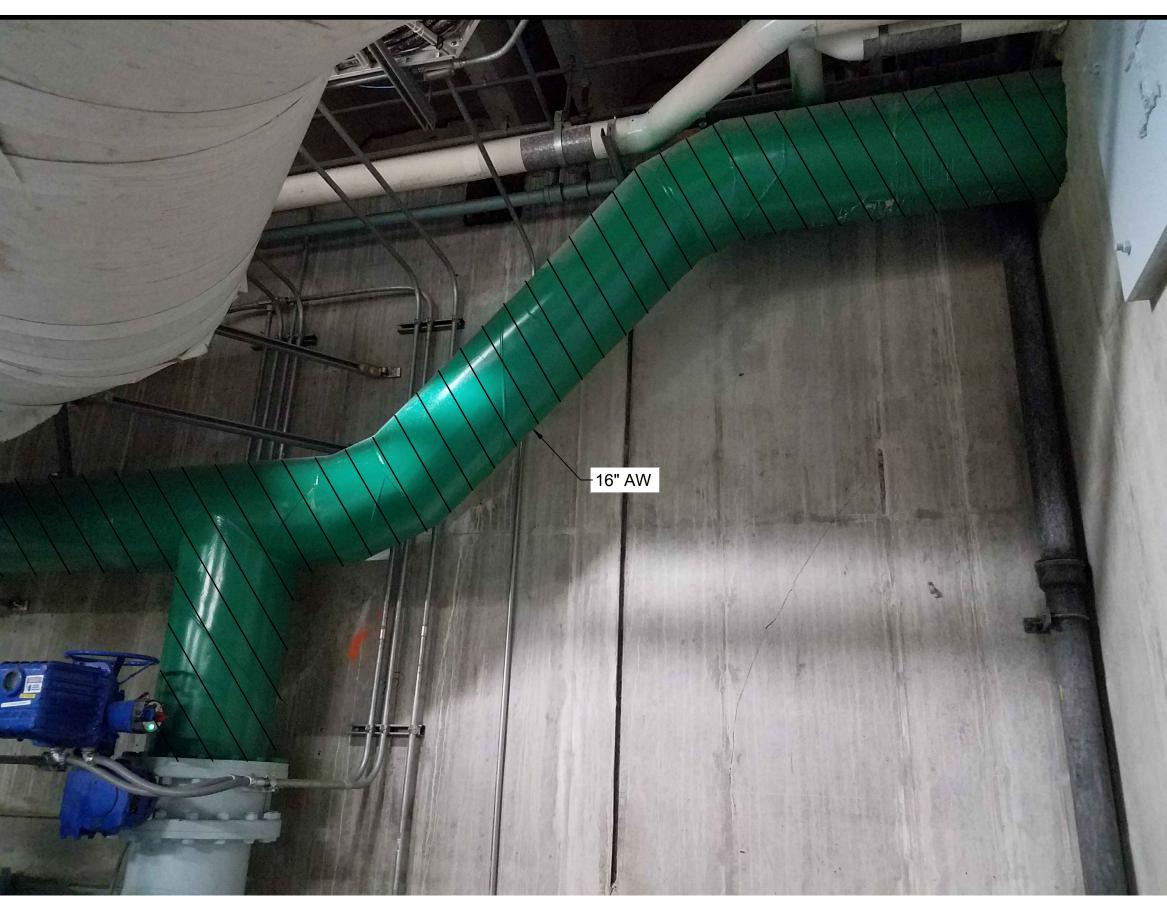
		6			
	\bigcirc	KEY NOTES:	Г	Brown AND	
ION	1.	REMOVE AND REPLACE AIR SCOUR PIPE IN FILTERS WITH 14" STAINLESS STEEL PIPE AND 16" FLANGED ENDS, PER PIPE SCHEDULE.		Caldwell	
ΓE.	2.	REMOVE AND REPLACE, OR REINSTALL, PER VALVE SCHEDULE, TYP 10 PLACES. FOR EACH VALVE REUSE EXISTING CONDUIT AND WIRE. ENSURE ALL CONDUIT AND WIRES ARE	SA	LT LAKE CITY, UT	ΓAH
AK.		PROPERLY DISCONNECTED, LABELED AND PROTECTED DURING CONSTRUCTION. RECONNECT NEW VALVES TO MATCH FUNCTION OF EXISTING VALVES. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT VALVE ACTUATOR ELECTRICAL	F	INAL BID SE	T
		ENCLOSURE IS POSITIONED PROPERLY TO REUSE EXISTING CONDUIT AND WIRE. IN THE EVENT THAT EXISTING CONDUIT AND WIRE DO NOT REACH THE NEW TERMINALS THE CONTRACTOR SHALL INSTALL NEW CONDUIT AND WIRE AS NEEDED. ALL NEW CONDUIT AND WIRE SHALL BE PER SPECIFICATION.	\subset	No. 4940719 JEREMY WILLAMS	Annunitation of the second
	3.	CONTRACTOR IS RESPONSIBLE TO PROTECT EQUIPMENT IN CLOSE PROXIMITY TO VALVES DURING REPLACEMENT. IN THE EVENT THAT PIPING, CONDUIT, CABLE TRAY, PIPE INSULATION, OR OTHER ITEMS ARE DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE.		General CF OF United 04	I/02/19
	4.	INSTALL NEW PIPING USING EXISTING PIPE HANGERS AND SUPPORTS. PROVIDE $\frac{1}{4}$ " THICK 60 DUROMETER EPDM LINER TO ISOLATE NEW PIPE FROM HANGER.			
	5.	REMOVE AND REPLACE VICTAULIC COUPLING WITH 16" VICTAULIC W741 COATED DUCTILE IRON FLANGE ADAPTER, TYP 10 PLACES.			
	6.	REHABILITATE PIPE PENETRATION IN PLACE, TYP 10 PLACES. PREPARE EXTERIOR AND INTERIOR SURFACE TO SSPC-SP5/NACE 1 STANDARDS WITH A MINIMUM ANGULAR ANCHOR PROFILE OF 3.0 MILS. COAT PIPE SURFACES WITH EPOXY COATING TO 20 MILS DFT. EPOXY COATING PER AWWA C210, NSF- 61 CERTIFIED, MANUFACTURER'S STANDARD COLOR, TNEMIC SERIES 22, SHERPLATE PW, OR APPROVED EQUAL.	COLD COMPANY AND A 111	AN VALLEY V ERVANCY DI	
	7.	NOT USED.			
	8.	REMOVE EXISTING BAFFLE PLATE. REPLACE WITH 1/2" 316L STAINLESS STEEL BAFFLE PLATE AND 3/4" 316L ALL THREAD WITH DOUBLE NUTS, TYP 10 PLACES.		JVWTP	
	9.	MODIFY PIPE THIMBLE FLUSH TO PIPE GALLERY WALL. PROTECT THE FILTER SIDE PIPE THIMBLE AND FLANGE. REHABILITATE PIPE PENETRATION IN PLACE, TYP 10 PLACES. PREPARE EXTERIOR AND INTERIOR SURFACE TO SSPC-SP5/NACE 1 STANDARDS WITH A MINIMUM ANGULAR ANCHOR PROFILE OF 3.0 MILS. COAT PIPE SURFACES WITH EPOXY COATING TO 20 MILS DFT. EPOXY COATING PER AWWA C210, NSF- 61 CERTIFIED, MANUFACTURER'S STANDARD COLOR, TNEMIC SERIES 22, SHERPLATE PW, OR APPROVED EQUAL. FILL ANNULAR SPACE WITH NON-SHRINK GROUT.		R SCOUR PILE EPLACEMEN REVISIONS	JT
	10.	PROVIDE 14" FLANGED BY GROOVED END PIPE TO FIT WITHIN REHABILITATED 16" WALL THIMBLE, AS SHOWN, AND PER PIPE SCHEDULE. FILL ANNULAR SPACE WITH NON-SHRINK GROUT. TYP 12 PLACES.	+	LINE IS 2 INCHES AT FULL SIZE	
	11.	PROVIDE CONNECTION USING VICTAULIC W741 FLANGE ADAPTER (COATED DUCTILE IRON), PROVIDE EPDM, FULL FACED ISOLATION GASKET BETWEEN DISSIMILAR METALS. TYP 10 PLACES.	DRAWN: CHECKED CHECKED	D: A. JONES T. PRIDEMORE C: A. JONES C: J. WILLIAMS D: J. WILLIAMS	
	12.	REMOVE MANHOLE COVER TO ACCESS THE LOWER GULLET. INSPECT AND CLEAN THE ENTIRE LOWER GULLET OF ALL DEBRIS, TYP 10 PLACES. ALL PERSONNEL SHALL USE A CLEAN TYVEK SUIT AND BOOTS. CLEAN AND DISINFECT WORK SUITS AND EQUIPMENT WITH 200 PPM CHLORINE SOLUTION BEFORE ENTERING THE LOWER GULLET. DISINFECT THE LOWER GULLET AS SPECIFIED.	CL	FILENAME 2M-301.DWG BC PROJECT NUMBER 151483 IENT PROJECT NUMB 4070 MECHANICAL	BER
		PROVIDE AND INSTALL 6" VENTSAFE® SECURITY CAGE BY VALVEMATIC OR APPROVED EQUAL. INSTALL ON END OF AIR RELIEF PIPE WITH A STAINLESS STEEL FLAT FACE FLANGE. PROVIDE EPDM FULL FACE GASKET ON BOTH SIDES OF SECURITY CAGE. TYP 10 PLACES.	GALL	VEST FILTE LERY SECT IND DETAIL	IONS
	14.	PROVIDE 14" FLANGED BY PLAIN END PIPE TO FIT WITHIN REHABILITATED 16" PENETRATION THIMBLE, AS SHOWN, AND PER PIPE SCHEDULE. FILL ANNULAR SPACE WITH NON-SHRINK GROUT. TYP 10 PLACES.	8	DRAWING NUMBER 2M-301 SHEET NUMBER OF	16
		6	-	-	



NOTE: COAT PENETRATION PER DETAIL, AND CIM INDUSTRIES INC INSTRUCTIONS, TYP 6 PLACES. PREPARE CONCRETE SURFACE PER MANUFACTURER SPECIFICATION FOR POTABLE WATER, IN ACCORDANCE WITH ASTM D4258, AND BY ABRASIVE BLASTING. PERFORM ABRASIVE BLASTING IN ACCORDANCE WITH ASTM D4259-88. EXPOSE AGGREGATE TO OBTAIN A PROFILE OF ICRI CSP 4 TO 6 IN ACCORDANCE WITH ICRI 03732. WORK TO BE SUPERVISED BY MANUFACTUER REPRESENTATIVE JOHN HILL (801-836-2042) AT CONTRACTORS EXPENSE.

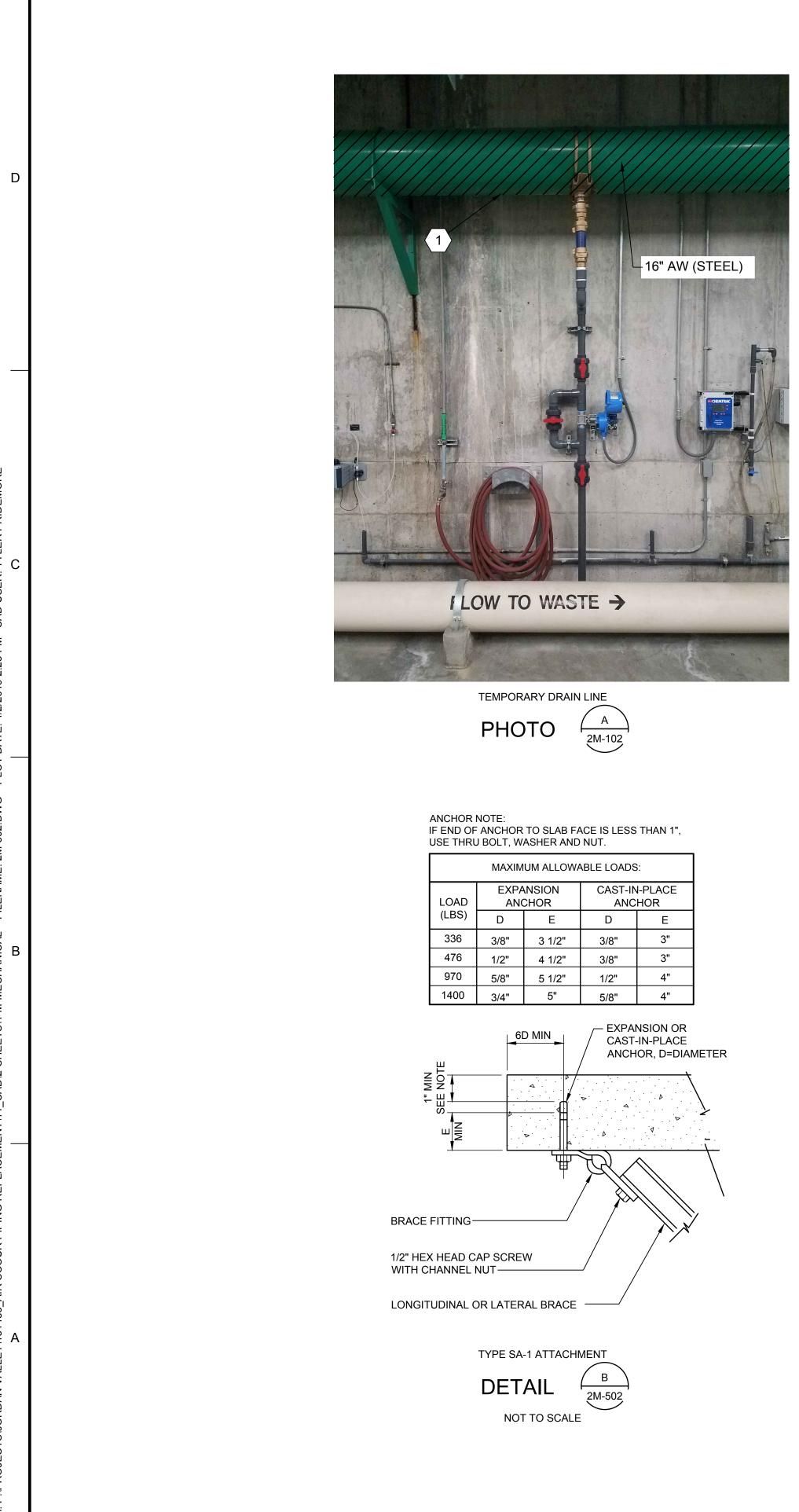
	6		_
	GENERAL NOTES		
1.	PROTECT FILTER MEDIA FROM CONSTRUCTION DEBRIS WITH PLASTIC SHEETS.	Brown AND Caldwell	
2.	INSTALL NEW PIPING USING EXISTING PIPE HANGERS AND SUPPORTS. PROVIDE $\frac{1}{4}$ " THICK 60 DUROMETER EPDM LINER TO ISOLATE NEW PIPE	SALT LAKE CITY, UTAH	
	FROM HANGER.	FINAL BID SET	D
		No. 4940719 JEREMY WILLAMS 04/02/19	
	KEY NOTES:		С
1.	REMOVE AND REPLACE, OR REINSTALL, PER VALVE SCHEDULE, TYP 6 PLACES. FOR EACH VALVE REUSE EXISTING CONDUIT AND WIRE. ENSURE ALL CONDUIT AND WIRES ARE PROPERLY DISCONNECTED, LABELED AND PROTECTED DURING CONSTRUCTION. RECONNECT NEW VALVES TO MATCH FUNCTION OF EXISTING VALVES. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT VALVE ACTUATOR ELECTRICAL ENCLOSURE IS POSITIONED PROPERLY TO REUSE EXISTING	JORDAN VALLEY WATER CONSERVANCY DISTRICT	
	CONDUIT AND WIRE. IN THE EVENT THAT EXISTING CONDUIT AND WIRE DO NOT REACH THE NEW TERMINALS THE CONTRACTOR SHALL INSTALL NEW CONDUIT AND WIRE AS NEEDED. ALL NEW CONDUIT AND WIRE SHALL BE PER SPECIFICATION.	JVWTP AIR SCOUR PIPE REPLACEMENT	
2.	INSTALL NEW AIR RELIEF PIPE USING NEW 316 STAINLESS PIPE HANGER AND SUPPORTS.	REVISIONS	
3.	REMOVE 6" PIPE AND REPLACE PER PIPE	REV DATE DESCRIPTION	_
	SCHEDULE. CHIP OUT CONCRETE NO MORE THAN 6" FROM EXISTING PIPE. INSTALL NEW PIPE WITH 316 SS PIPE SUPPORT. SEAL HOLE WITH NSF-61 CERTIFIED NON-EXPANDING GROUT. COAT AN 18" SQUARE AROUND PIPE WITH CIM 1000TG. SEE DETAIL A.		В
4.	PROVIDE AND INSTALL 6" VENTSAFE® SECURITY CAGE BY VALVEMATIC OR APPROVED EQUAL. INSTALL ON END OF AIR RELIEF PIPE	LINE IS 2 INCHES AT FULL SIZE DESIGNED: A. JONES	
	WITH A STAINLESS STEEL FLAT FACE FLANGE. PROVIDE EPDM FULL FACE GASKET ON BOTH SIDES OF SECURITY CAGE. TYP 6 PLACES.	DRAWN: T. PRIDEMORE	
	SIDES OF SECURITY CAGE. ITP 0 PLACES.	CHECKED: A. JONES CHECKED: J. WILLIAMS	
		APPROVED: J. WILLIAMS FILENAME 2M-302.DWG	
		BC PROJECT NUMBER 151483	
		CLIENT PROJECT NUMBER 4070	
		EAST FILTER GALLERY SECTIONS AND DETAILS	А
		DRAWING NUMBER	
		2M-302	
		9 SHEET NUMBER 16	1

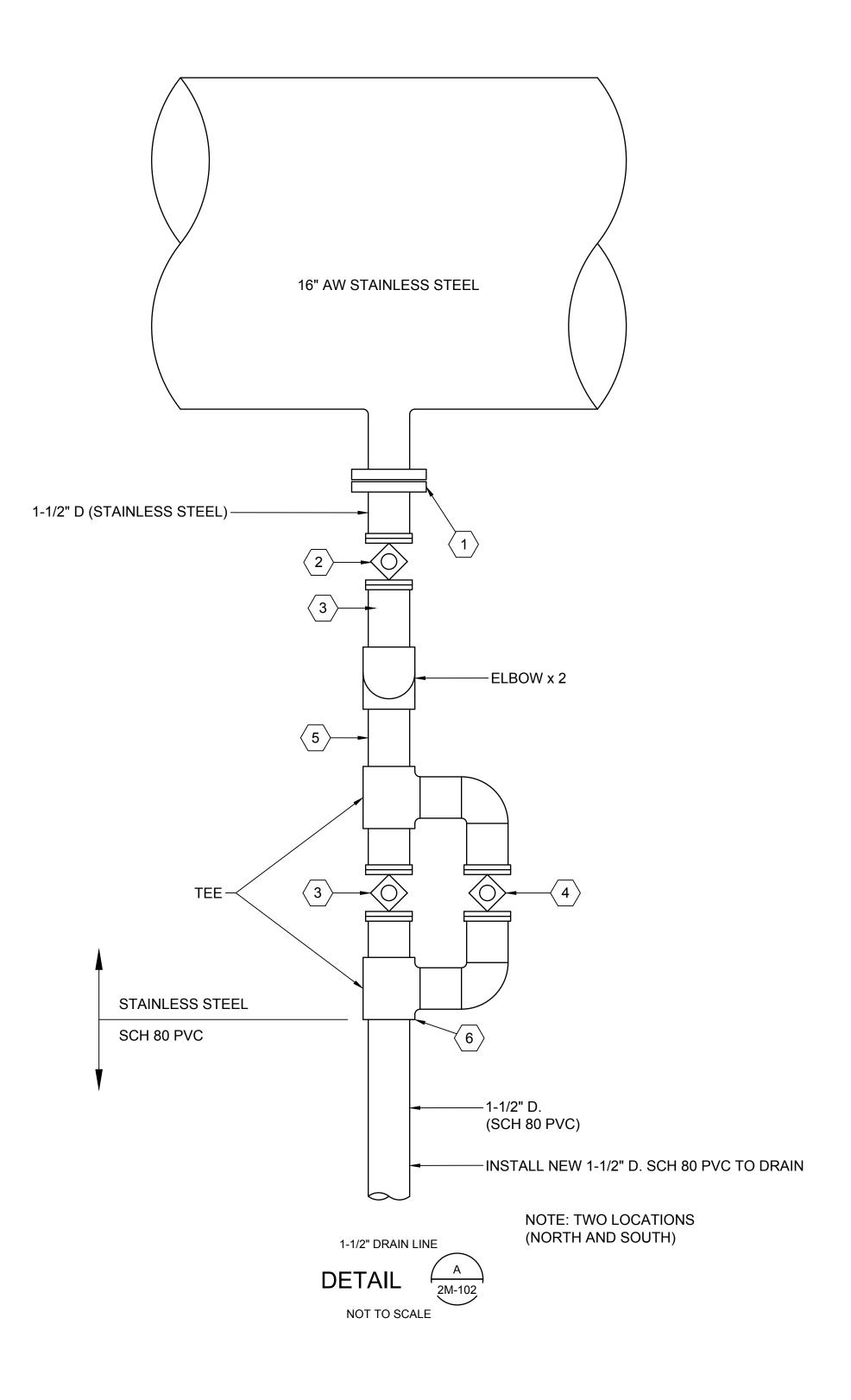




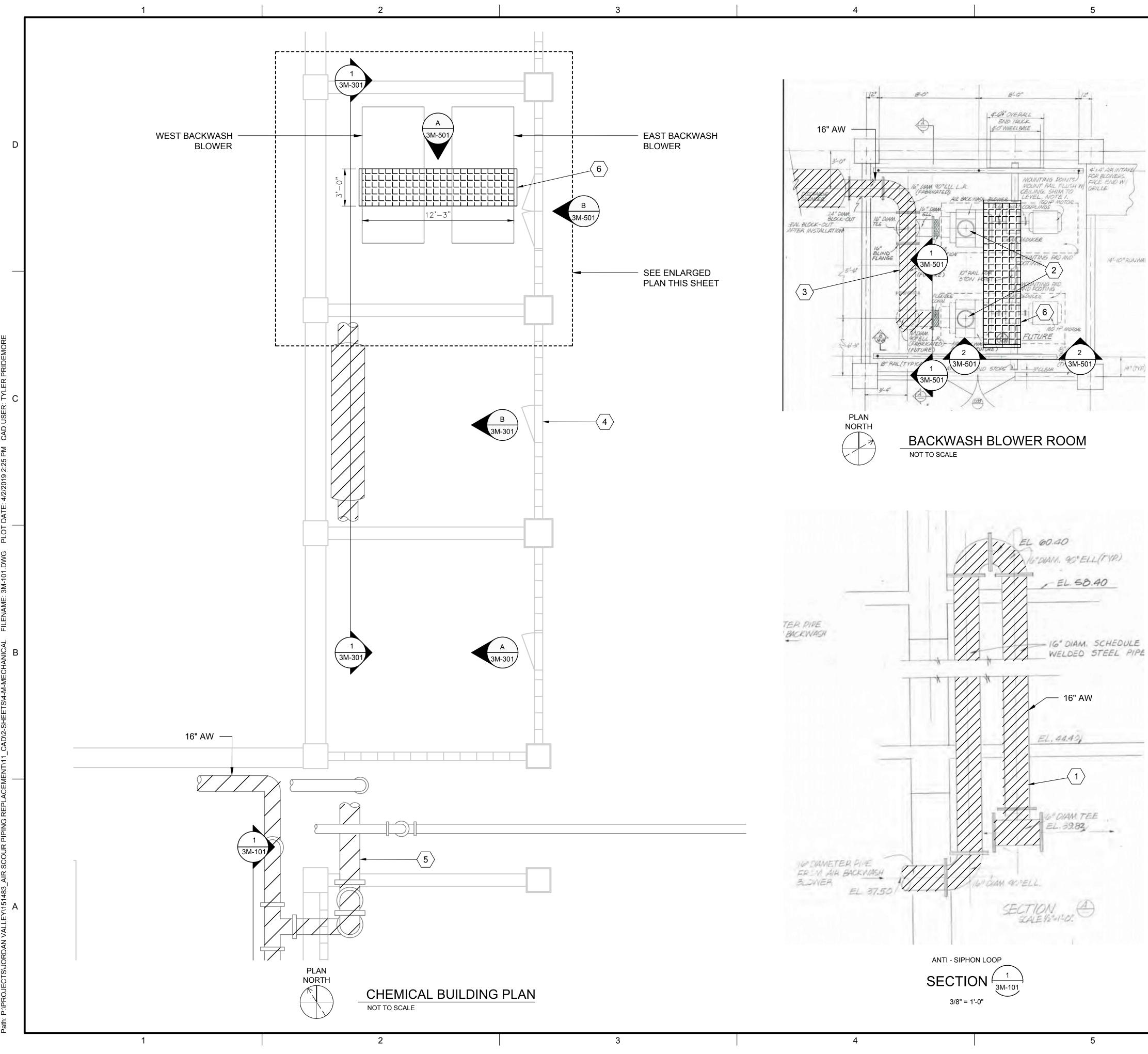
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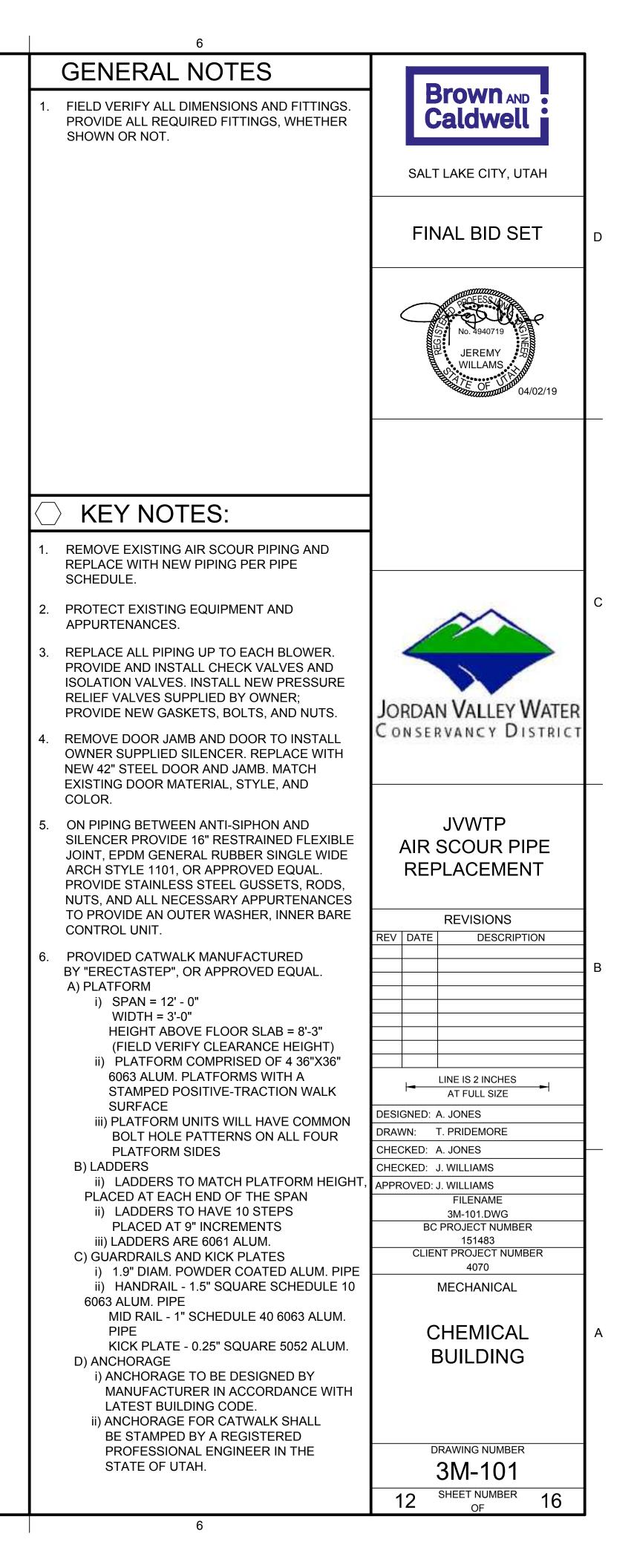
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GENERAL NOTES		
	Brown AND .	
	Caldwell	
	SALT LAKE CITY, UTAH	
	FINAL BID SET	D
	No. 4940719 201 JEREMY 男	
	04/02/19	
		~
KEY NOTES:		С
1. REMOVE EXISTING AIR SCOUR PIPING AND REPLACE WITH NEW PIPING PER PIPE		
SCHEDULE.		
2. PROVIDE TEMPORARY BLIND FLANGE IF NEEDED, AS DESCRIBED IN SPECIFICATIONS.	JORDAN VALLEY WATER CONSERVANCY DISTRICT	
3. NOT USED.	CONSERVANCY DISTRICT	
4. PROVIDE 16" RESTRAINED EXPANSION JOINT,		
EPDM GENERAL RUBBER SINGLE WIDE ARCH STYLE 1101 OR APPROVED EQUAL. PROVIDE		
STAINLESS STEEL GUSSETS, RODS, NUTS AND ALL NECESSARY APPURTENANCES TO PROVIDE		
AN OUTER WASHER, INNER BARE CONTROL UNIT	AIR SCOUR PIPE REPLACEMENT	
	REVISIONS	
		В
		D
	AT FULL SIZE DESIGNED: A. JONES	
	DRAWN: T. PRIDEMORE CHECKED: A. JONES —	
	CHECKED: J. WILLIAMS APPROVED: J. WILLIAMS	
	FILENAME 2M-501.DWG	
	BC PROJECT NUMBER 151483	
	CLIENT PROJECT NUMBER 4070	
	MECHANICAL	
	PIPE DETAILS - 1	A
		•
	DRAWING NUMBER	
	2M-501	
	10 SHEET NUMBER 16	
6		

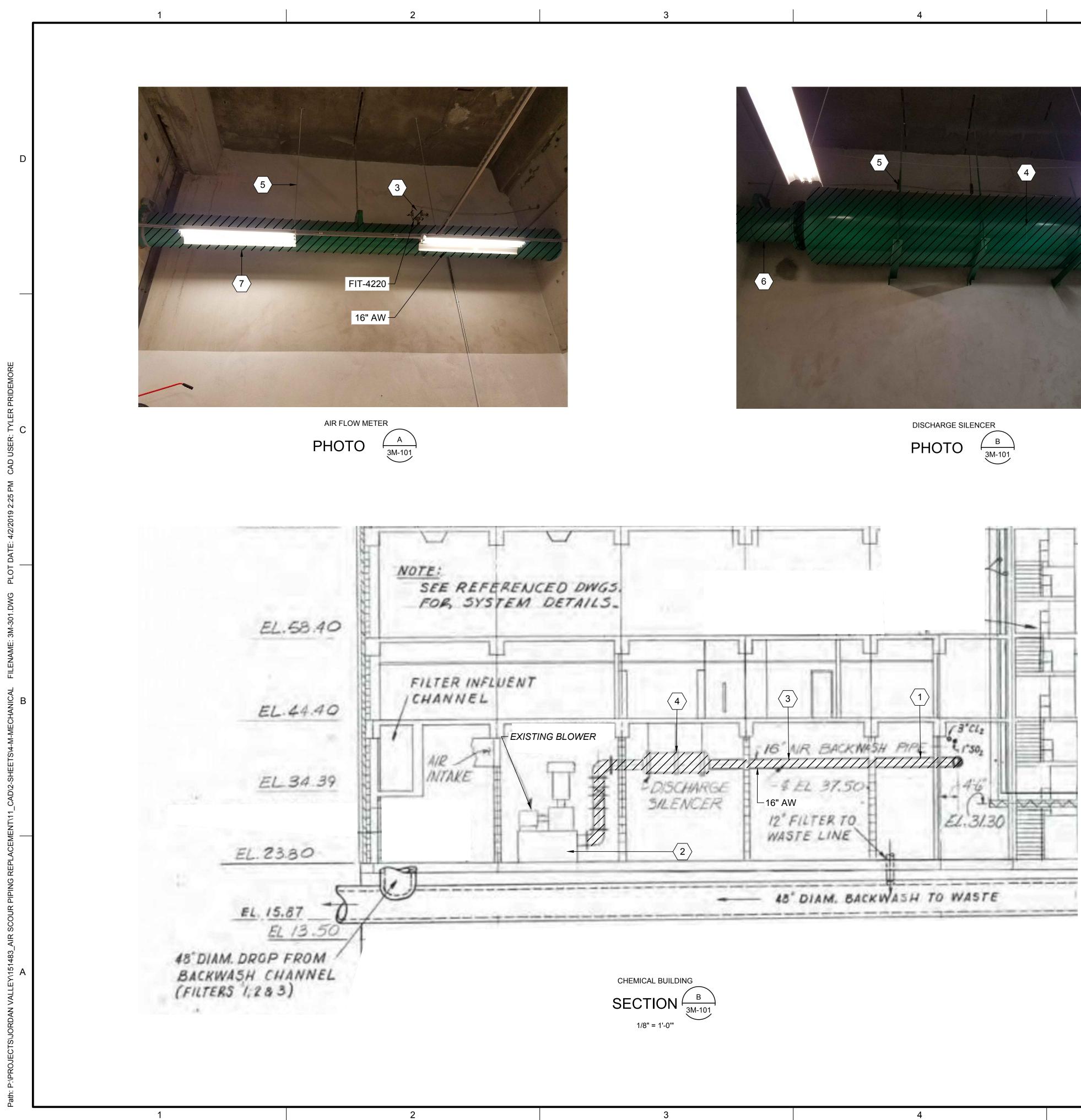




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GE	NERAL NOTES	
		Brown AND
		Caldwell
		SALT LAKE CITY, UTAH
		FINAL BID SET
		No. 4940719 JEREMY WILLAMS OF JUNE 04/02/19
	EY NOTES:	
	/IDE 16" x 4" STAINLESS STEEL TEE WITH ' TAPPED FLANGE.	
2. PRO\ VALV	/IDE STAINLESS STEEL ISOLATION BALL /E.	JORDAN VALLEY WATER
	OVE AND REINSTALL STAINLESS STEEL JATED BALL VALVE.	CONSERVANCY DISTRICT
	/IDE MANUAL STAINLESS STEEL BALL VALVE ACTUATED BALL VALVE BYPASS	
STAIN SCHE	ACE TEMPORARY DRAIN LINE WITH NEW NLESS STEEL DRAIN LINE PER PIPE EDULE, TYP OF 2 PLACES. FIELD VERIFY ATION OF TEMPORARY AW PIPE DRAIN.	JVWTP AIR SCOUR PIPE REPLACEMENT
6. CON DRAI	TINUE DRAIN LINE TO NEAREST FLOOR	
DRAII	N.	REVISIONS
		E
		LINE IS 2 INCHES
		DESIGNED: A. JONES DRAWN: T. PRIDEMORE
		CHECKED: A. JONES -
		CHECKED: J. WILLIAMS APPROVED: J. WILLIAMS
		FILENAME
		2M-502.DWG BC PROJECT NUMBER 151483
		151483 CLIENT PROJECT NUMBER 4070
		MECHANICAL
		PIPE DETAILS - 2
		DRAWING NUMBER
		11 SHEET NUMBER 16



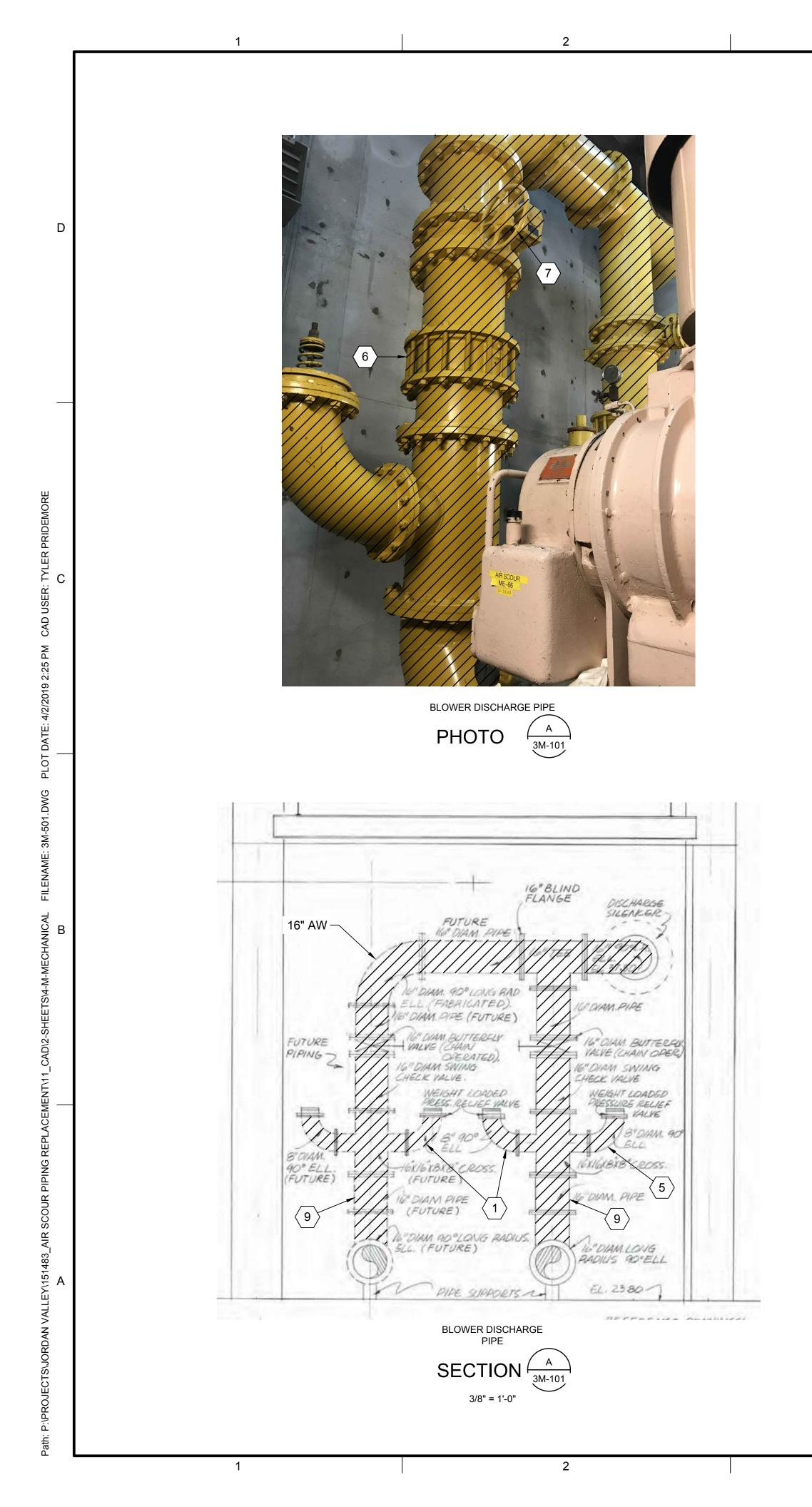




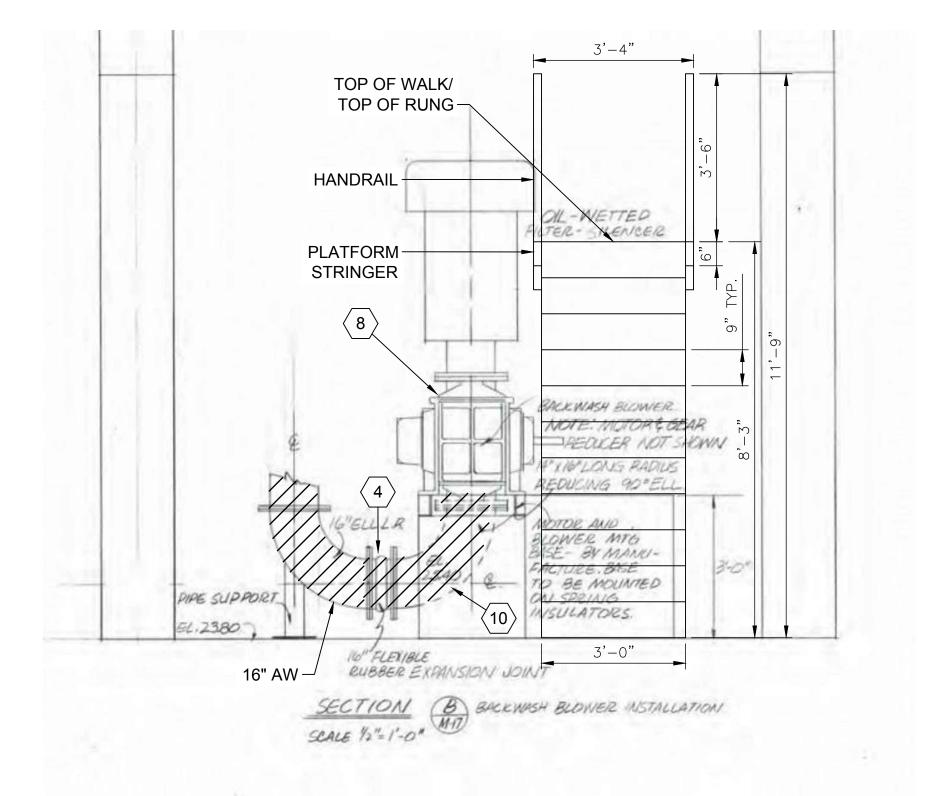


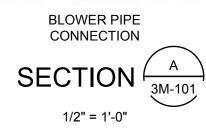


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	GENERAL NOTES		
1.	SEAL ALL WALL PENETRATIONS WITH LINK SEAL.	Brown AND Caldwell	
		SALT LAKE CITY, UTAH	
		FINAL BID SET	D
		JEREMY WILLAMS 04/02/19	
	> KEY NOTES:		С
1.	REMOVE EXISTING AIR SCOUR PIPING AND REPLACE WITH NEW PIPING PER PIPE SCHEDULE.		U
2.	PROTECT EXISTING EQUIPMENT AND APPURTANANCES.	JORDAN VALLEY WATER	
3.	REMOVE EXISTING FLOW METER. PROVIDE AND INSTALL NEW FLOW METER PER SPECIFICATION. REMOVE EXISTING IMPULSE TUBING TO EXISTING FLOW TRANSMITTER. PROVIDE AND	CONSERVANCY DISTRICT	
	INSTALL REMOTE MOUNT TRANSMITTER IN BLOWER ROOM. RUN CONDUIT AND WIRE TO TRANSMITTER AS SPECIFIED. COORDINATE TRANSMITTER MOUNTING LOCATION WITH OWNER.	JVWTP AIR SCOUR PIPE REPLACEMENT	
4.	REMOVE EXISTING DISCHARGE SILENCER AND INSTALL NEW DISCHARGE SILENCER PROVIDED BY OWNER.	REVISIONS	
5.	PROVIDE AND INSTALL NEW PIPING USING EXISTING PIPE HANGERS AND SUPPORTS. PROVIDE EPDM LINER TO ISOLATE NEW PIPE FROM HANGER.	REV DATE DESCRIPTION	В
6.	CONNECT TO SILENCER WITH FLANGED PIPE.		
7.	CONNECT TO GROOVED PIPE WITH VICTAULIC 77S COUPLING.	LINE IS 2 INCHES	
		DESIGNED: A. JONES DRAWN: T. PRIDEMORE	
		CHECKED: A. JONES	
		CHECKED: J. WILLIAMS APPROVED: J. WILLIAMS FILENAME	
		3M-301.DWG BC PROJECT NUMBER	
		151483 CLIENT PROJECT NUMBER 4070	
		MECHANICAL	
		CHEMICAL BUILDING SECTION	А
		DRAWING NUMBER 3M-301 SHEET NUMBER 1 0	
		13 OF 16	









	6		
	GENERAL NOTES		
1.	FIELD VERIFY ALL DIMENSIONS AND FITTINGS. PROVIDE ALL REQUIRED FITTINGS, WHETHER SHOWN OR NOT SHOWN. REPLACE ALL PIPING UP TO EACH BLOWER.	Brown AND Caldwell	
2.	REMOVE EXISTING AIR SCOUR PIPING AND REPLACE WITH NEW PIPING PER PIPE SCHEDULE.	SALT LAKE CITY, UTAH	
3.	PROTECT EXISTING EQUIPMENT AND APPURTENANCES.	FINAL BID SET	D
4.	PROTECT EXISTING BLOWERS.	JEREMY WILLAMS 04/02/19	
	KEY NOTES:		С
1.	OMIT THIS BRANCH IN NEW PIPING. PROVIDE A TEE FOR ONE AIR RELIEF VALVE, TYPICAL EACH BLOWER.		
2.	NOT USED.	JORDAN VALLEY WATER	
3.	NOT USED.	CONSERVANCY DISTRICT	
4. 5.	PROVIDE 16" RESTRAINED FLEXIBLE JOINT, EPDM GENERAL RUBBER SINGLE WIDE ARCH STYLE 1101, OR APPROVED EQUAL. PROVIDE STAINLESS STEEL GUSSETS, RODS, NUTS AND ALL NECESSARY APPURTENANCES TO PROVIDE AN OUTER WASHER, INNER BARE CONTROL UNIT TYP 2 PLACES. PROVIDE ONLY ONE AIR RELIEF VALVE CONNECTION FOR THE WEST BLOWER TO MATCH THE EAST BLOWER. POSITION NEW VALVE ON NORTH SIDE OF PIPE. PROVIDE 16" X 10" TEE; COORDINATE FLANGE SIZE WITH AIR RELIEF VALVE.	JVWTP AIR SCOUR PIPE REPLACEMENT REVISIONS REV DATE DESCRIPTION	
6.	REMOVE AND REPLACE CHECK VALVE PER VALVE SCHEDULE. TYP 2 PLACES.		В
7.	REMOVE AND REPLACE PER BUTTERFLY VALVE SCHEDULE, TYP 2 PLACES.		
8.	PROVIDE ROSEMOUNT 3051 CG PRESSURE INDICATING TRANSMITTER FOR EACH BLOWER INLET AS SPECIFIED. TYP 2 PLACES. PRESSURE INDICATING TRANSMITTER TO BE INSTALLED USING INSTRUMENTATION PORTS PROVIDED ON BLOWER INLET. CONDUIT AND WIRE TO PLC BY CONTRACTOR. TERMINATIONS AT PLC BY OWNER.	LINE IS 2 INCHES AT FULL SIZE DESIGNED: A. JONES DRAWN: T. PRIDEMORE CHECKED: A. JONES CHECKED: J. WILLIAMS APPROVED: J. WILLIAMS	
9.	PROVIDE ROSEMOUNT 3051 CG PRESSURE INDICATING TRANSMITTER UPSTREAM OF EACH CHECK VALVE AS SPECIFIED. TYP 2 PLACES. CONDUIT AND WIRE TO PLC BY CONTRACTOR. TERMINATIONS AT PLC BY OWNER.	FILENAME 3M-501.DWG BC PROJECT NUMBER 151483 CLIENT PROJECT NUMBER 4070	
10.	PROVIDE 16" BY 14" REDUCING ELBOW. TYP 2 PLACES.	MECHANICAL PIPE DETAILS - 1	А
	6	DRAWING NUMBER 3M-501 14 SHEET NUMBER 16 OF 16	
1	n		

