

Environmental Protection Facility Certification

Climax Mine – Permit No. M-1977-493

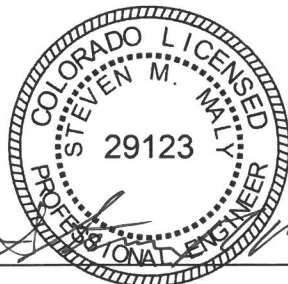
Technical Revision 36

5-Dam Seepwater Collection Area Secondary Containment System

The “5-Dam Seepwater Collection Area, Secondary Containment System” was approved as Technical Revision No. 36 to Mine Permit No. M-1977-493 on September 22, 2023. This project is located at Climax Molybdenum Company’s Climax Mine in Summit County. The project involved the construction of a cutoff structure, pump station, and 650-foot discharge pipeline used to collect, contain, and route Mayflower TSF seepage back into the Climax Mine seepage water system. The undersigned was responsible for the design of the pipeline and appurtenant structures.

The contractor has substantially completed the construction of the project, and the system has been tested and determined to be functional. Record Drawings of the project are attached.

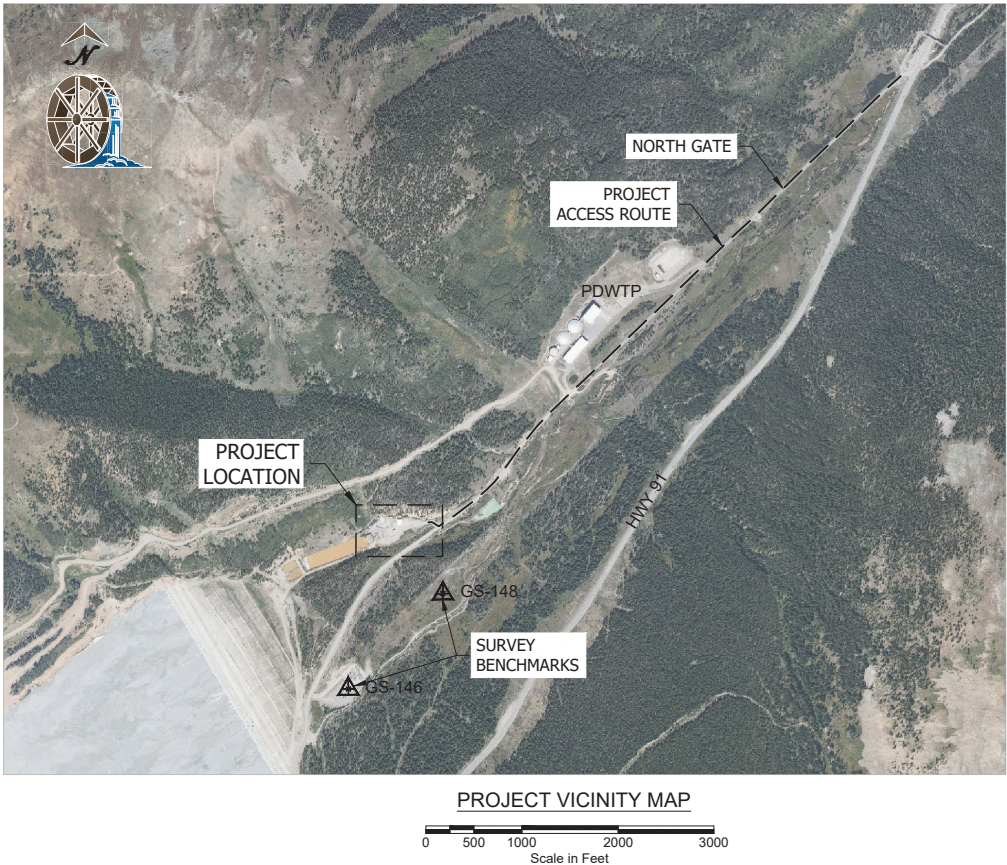
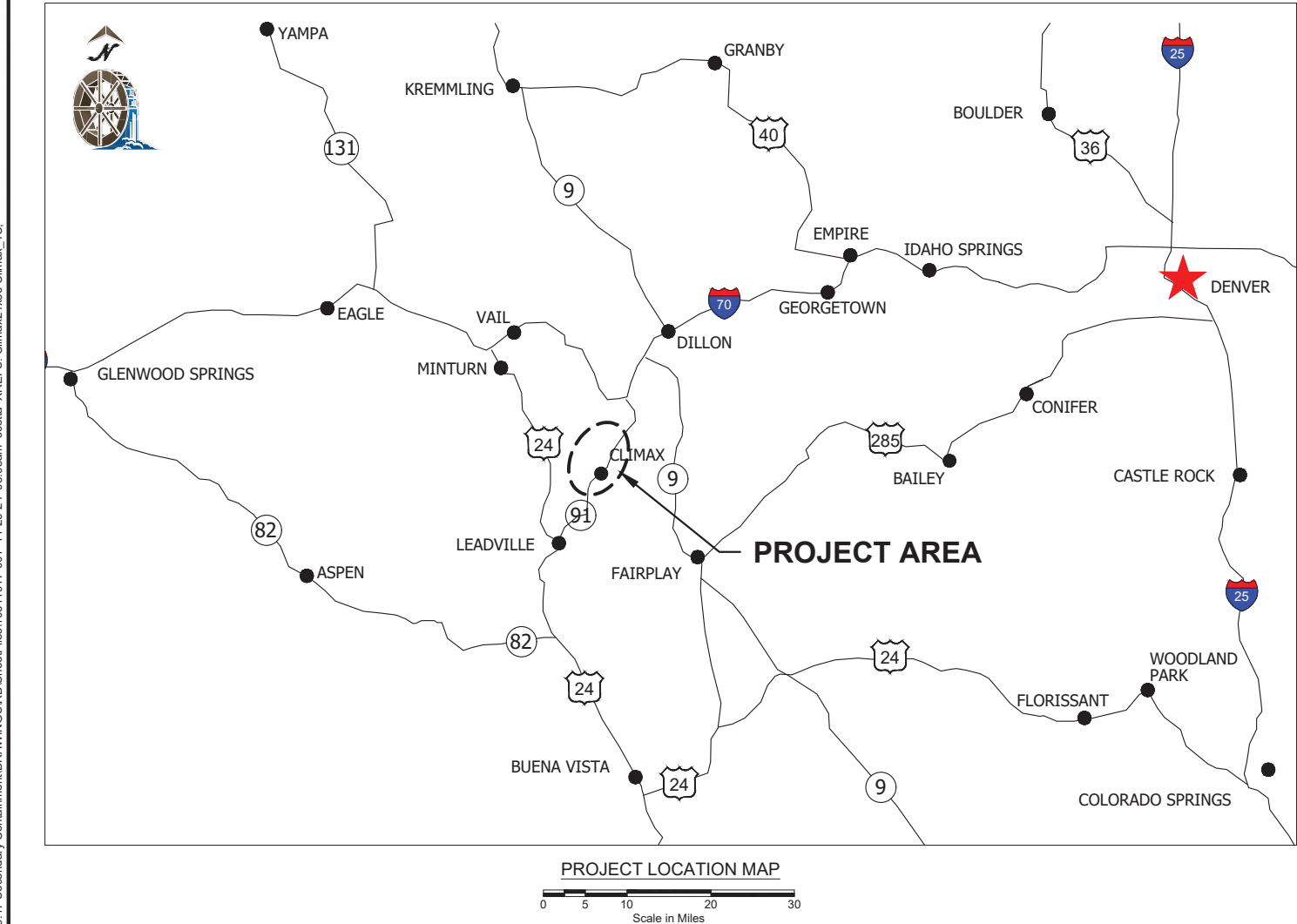
Pursuant to Rule 7.3.2, the Professional Engineer that has signed and sealed below certifies that the project was completed in general conformance with the approved design as submitted to the Division of Reclamation, Mining, and Safety. This statement is based in part on information that has been provided by others.



Steven M. Maly, P.E.
W. W. Wheeler and Associates, Inc.

11/21/2024
Date



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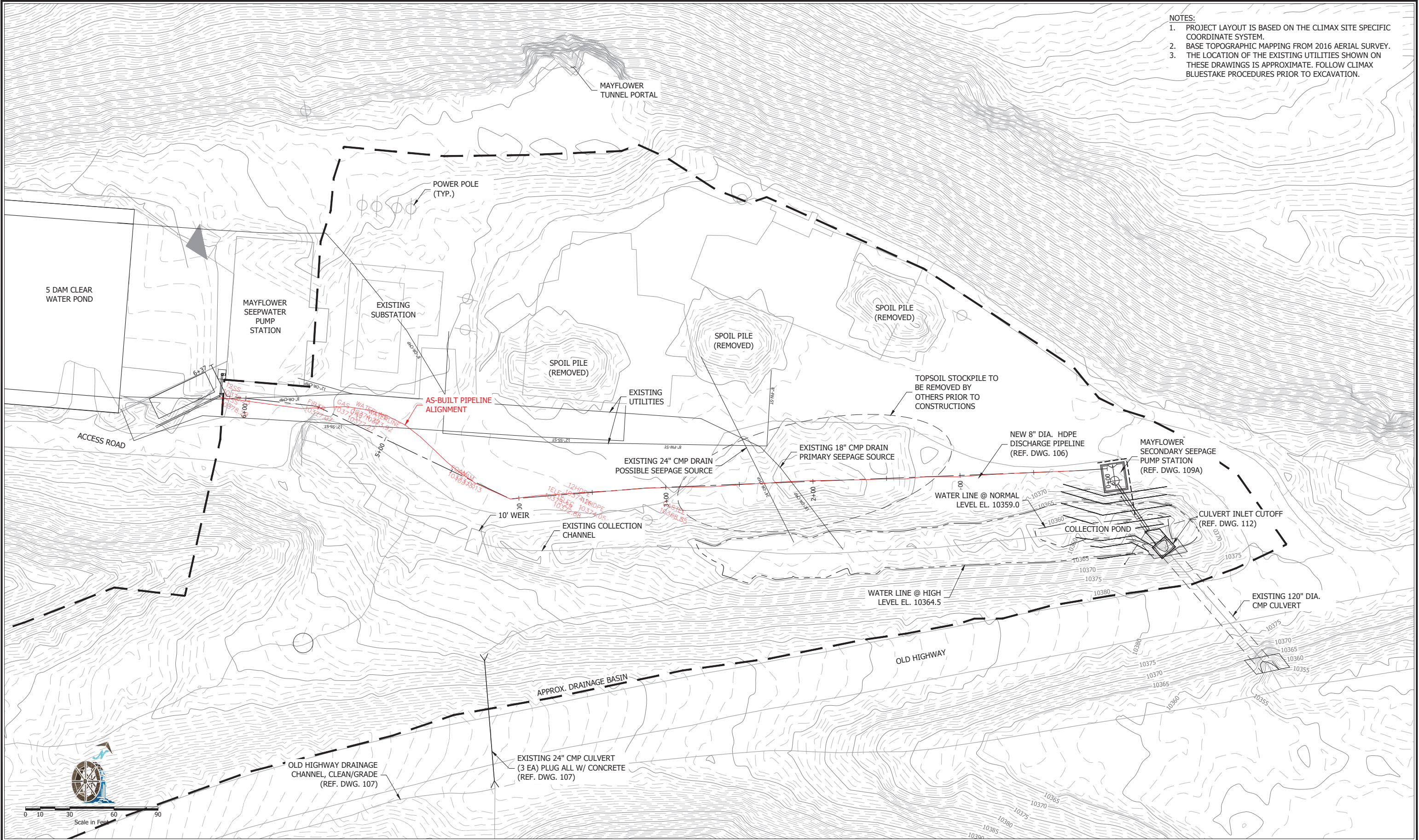
DRAWING INDEX	
DRAWING NO.	DRAWING TITLE
Drawings: General	
6-807-00101	COVER SHEET - DRAWING INDEX AND LOCATION MAP
6-807-00102	GENERAL ARRANGEMENT - SITE PLAN
Drawings: Instrumentation and Control	
6-807-00103	PIPING AND INSTRUMENTATION DIAGRAM
Drawings: Civil	
6-807-00104	SEEPAGE CUTOFF AND PUMP STATION - PLAN AND PROFILE
6-807-00105	GENERAL ARRANGEMENT - CULVERT INLET CUTOFF
6-807-00106	DISCHARGE PIPELINE - PLAN AND PROFILE
6-807-00107	OLD HIGHWAY DRAINAGE MODIFICATIONS - PLAN AND DETAILS
6-807-00108	MISCELLANEOUS CIVIL DETAILS - SECTIONS
Drawings: Mechanical	
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6-807-00113	ISOMETRICS AT CULVERT
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6-807-00115	SECTIONS AT CULVERT
6-807-00116	FOUNDATION DETAILS
6-807-00117	FOUNDATION DETAILS



Digitally signed by Steven M. Maly
Date: 2024.12.02 14:56:54 -07'00'

REVISIONS	NO.	DATE	MADE BY	CHKD. BY	REMARKS	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."	REFERENCE DWGS	DRAWING NO.	REFERENCE	<div><div><p>Climax Molybdenum A Freeport-McMoRan Company</p></div><div><div><p>W. W. WHEELER & ASSOCIATES, INC. Water Resources Engineers</p></div><div><p>3700 S. INCA STREET ENGLEWOOD, CO 80110-3405 303-761-4130</p></div></div></div>	5 DAM SEEPWATER COLLECTION AREA		Climax Molybdenum Climax Mine Climax, CO	
	1	06/23	SAA	SMM	ISSUE FOR BIDDING						SECONDARY CONTAINMENT SYSTEM	MADE BY SAA	01/23	PROJECT NUMBER 1051.19.17
	2	08/23	SAA	SMM	ISSUE FOR CONSTRUCTION						COVER SHEET	CHECKED BY SMM	01/23	DRAWING NO.
	3	10/23	SAA	SMM	REVISED BUILDING AND SLAB DIMENSIONS						DRAWING INDEX AND LOCATION MAP	ACCEPTED BY ---		6-807-00101
	4	05/24	SAA	SMM	REVISED BUILDING SUBGRADE									
5	11/24	SAA	SMM	RECORD DRAWING										

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- NOTES:
1. PROJECT LAYOUT IS BASED ON THE CLIMAX SITE SPECIFIC COORDINATE SYSTEM.
 2. BASE TOPOGRAPHIC MAPPING FROM 2016 AERIAL SURVEY.
 3. THE LOCATION OF THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS IS APPROXIMATE. FOLLOW CLIMAX BLUESTAKE PROCEDURES PRIOR TO EXCAVATION.

REVISIONS	NO.	DATE	MADE BY	CHKD. BY	REMARKS
	△	06/23	SAA	SMM	ISSUE FOR BIDDING
	△	08/23	SAA	SMM	ISSUE FOR CONSTRUCTION
	△	10/23	SAA	SMM	REVISED BUILDING AND SLAB DIMENSIONS
	△	05/24	SAA	SMM	REVISED BUILDING SUBGRADE
	△	11/24	SAA	SMM	RECORD DRAWING

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REFERENCE DWGS	DRAWING NO.	REFERENCE



Climax Molybdenum
A Freeport-McMoRan Company



W. W. WHEELER & ASSOCIATES, INC.
Water Resources Engineers

3700 S. INCA STREET
ENGLEWOOD, CO 80110-3405
303-761-4130

5 DAM SEEPWATER COLLECTION AREA		Climax Molybdenum Climax Mine		
SECONDARY CONTAINMENT SYSTEM		Climax, CO		
GENERAL ARRANGEMENT	MADE BY	SAA	01/23	PROJECT NUMBER 1051.19.17
	CHECKED BY	SMM	01/23	DRAWING NO.
	ACCEPTED BY	...		6-807-00102
SITE PLAN				

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807-PU-1001

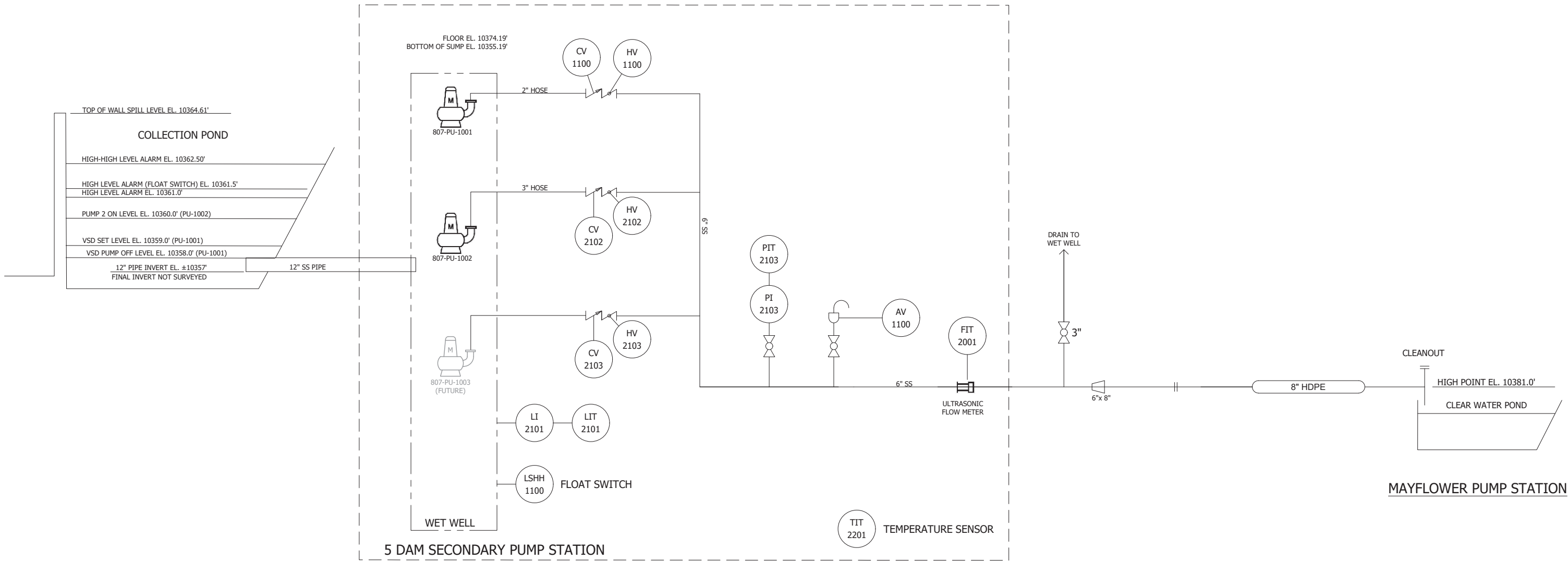
SERVICE: SEEPAGE PUMP
MAKE: TSURUMI
MODEL: 50SFQ2.75
CAPACITY: 75 GPM
DISCHARGE: 21 FT HEAD
RPM: 3600
HP: 1

807-PU-1002

SERVICE: SEEPAGE PUMP
MAKE: TSURUMI
MODEL: 80SFQ23.7
CAPACITY: 250 GPM
DISCHARGE: 31 FT HEAD
RPM: 3600
HP: 5

807-PU-1003

SERVICE: FUTURE
MAKE: TBD
MODEL: TBD
CAPACITY: TBD
DISCHARGE: TBD
RPM: TBD
HP: TBD



PUMP CONTROL LOGIC:



- VSD PUMP (PU-1001) SET TO MAINTAIN A CONSTANT LEVEL AT EL. 10359.0'.
- VSD PUMP (PU-1001) SET TO TURN OFF AT EL. 10358.0'.
- VSD PUMP (PU-1001) SET TO TURN ON AT EL. 10359.5'.
- PUMP 2 (PU-1002) SET TO TURN ON AT LEVEL 10360.0'.
- PUMP 2 (PU-1002) SET TO TURN OFF AT EL. 10358.5'.

ALARM SETTINGS:

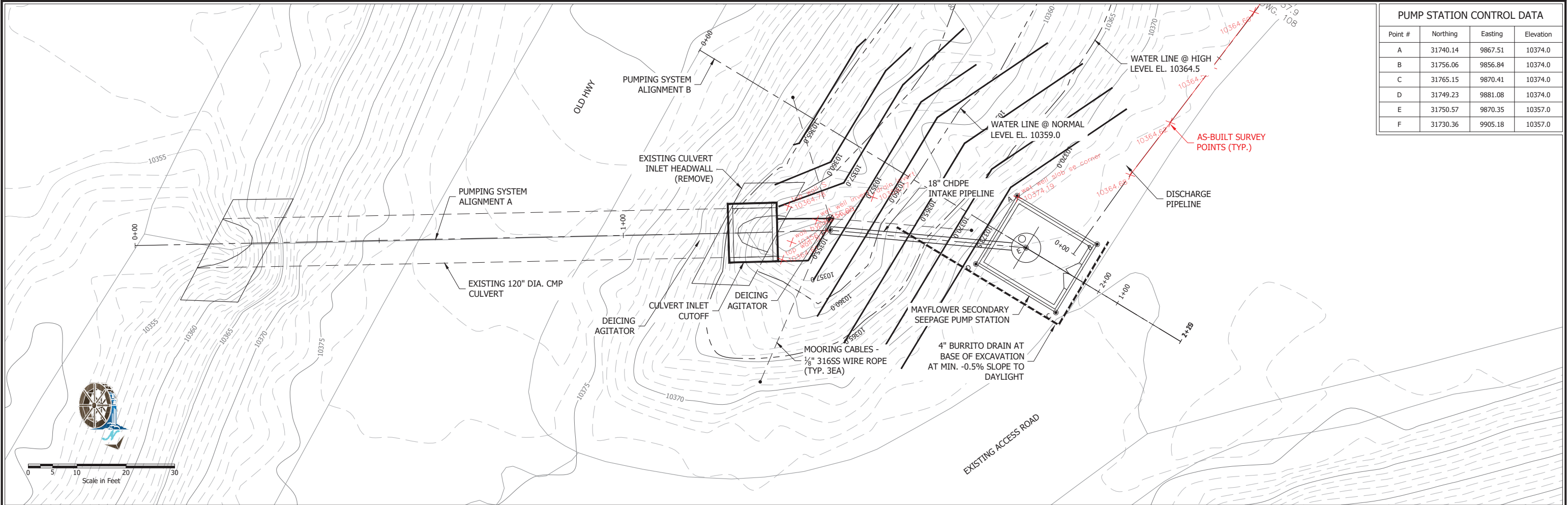
- SUMP POND LOW LEVEL ALARM (LIT-2101): 10358.0'
- SUMP POND HIGH LEVEL ALARM (LIT-2101): 10361.0'
- SUMP POND HIGH-HIGH LEVEL ALARM (LIT-2101): 10362.5'
- SUMP POND FLOAT SWITCH HIGH LEVEL ALARM (LIT-2101): 10361.5'
- HIGH HEADER PRESSURE ALARM (PI-2103): 20 PSI
- LOW FLOW ALARM (FIT-2001): 0 GPM
- LOW BUILDING TEMPERATURE ALARM (TIT-2201): 50 DEG. F

NOTES:

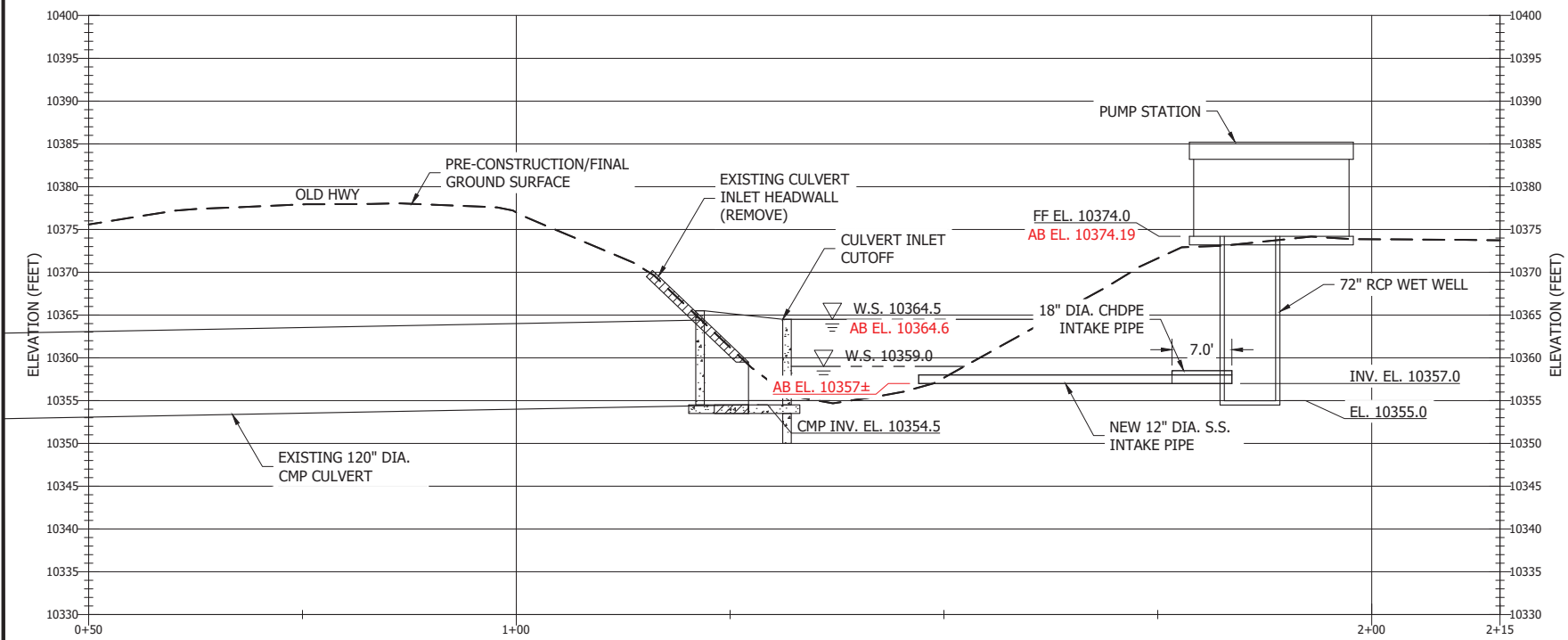
- ADD 807 PREFIX TO ALL VALVE AND INSTRUMENT IDENTIFICATION NUMBERS.

REVISIONS	NO.	DATE	MADE BY	CKD. BY	REMARKS	<i>"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."</i>	REFERENCE DWGS	DRAWING NO.	REFERENCE	 A Freeport-McMoRan Company	 W. W. WHEELER & ASSOCIATES, INC. Water Resources Engineers	3700 S. INCA STREET ENGLEWOOD, CO 80110-3405 303-761-4130	5 DAM SEEPWATER COLLECTION AREA		CLSHHmax Molybdenum CLSHHmax Mine		
	△	06/23	SAA	SMM	ISSUE FOR BIDDING								SECONDARY CONTAINMENT SYSTEM		MADE BY SAA	01/23	PROJECT NUMBER 1051.19.17
	△	08/23	SAA	SMM	ISSUE FOR CONSTRUCTION								PIPING AND INSTRUMENTATION DIAGRAM		CHECKED BY SMM	01/23	DRAWING NO.
	△	10/23	SAA	SMM	REVISED BUILDING AND SLAB DIMENSIONS								ACCEPTED BY ...				6-807-00103
	△	05/24	SAA	SMM	REVISED BUILDING SUBGRADE												
		11/24	SAA	SMM	RECORD DRAWING												

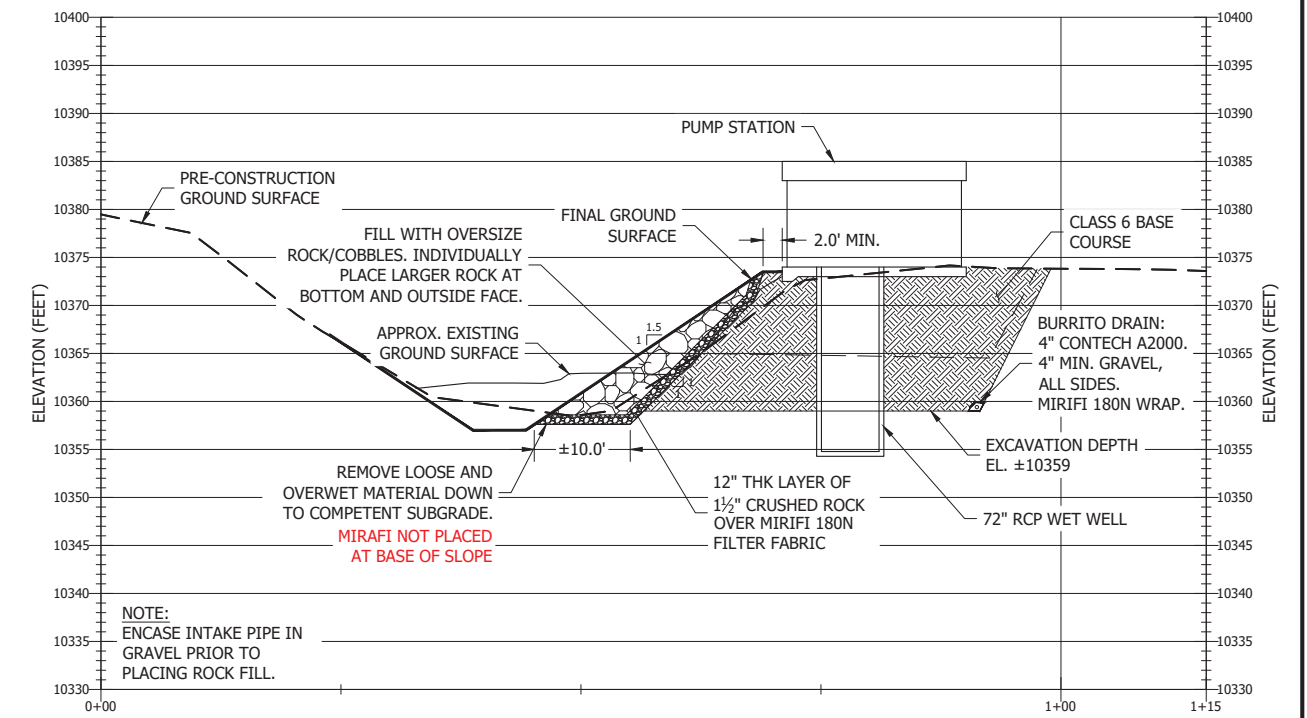
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PUMP STATION CONTROL DATA			
Point #	Northing	Easting	Elevation
A	31740.14	9867.51	10374.0
B	31756.06	9856.84	10374.0
C	31765.15	9870.41	10374.0
D	31749.23	9881.08	10374.0
E	31750.57	9870.35	10357.0
F	31730.36	9905.18	10357.0



PROFILE OF PUMPING SYSTEM ALIGNMENT A



PROFILE OF PUMPING SYSTEM ALIGNMENT B

NO.	DATE	MADE BY	CKD. BY	REMARKS
1	06/23	SAA	SMM	ISSUE FOR BIDDING
2	08/23	SAA	SMM	ISSUE FOR CONSTRUCTION
3	10/23	SAA	SMM	REVISED BUILDING AND SLAB DIMENSIONS
4	05/24	SAA	SMM	REVISED BUILDING SUBGRADE
5	11/24	SAA	SMM	RECORD DRAWING

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DRAWING NO.	REFERENCE



Climax Molybdenum
A Freeport-McMoRan Company



W. W. WHEELER & ASSOCIATES, INC.
Water Resources Engineers

3700 S. INCA STREET
ENGLEWOOD, CO 80110-3405
303-761-4130

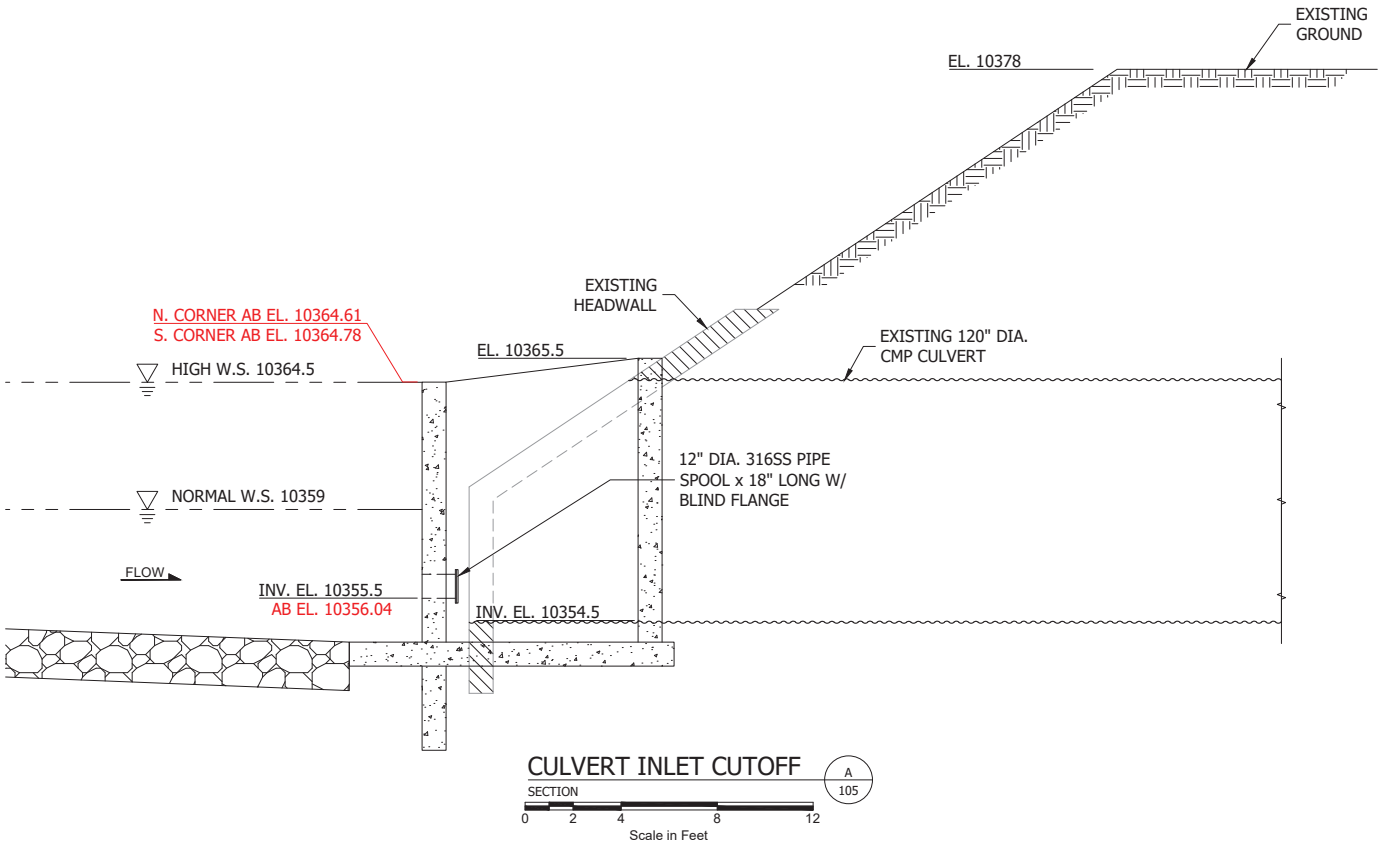
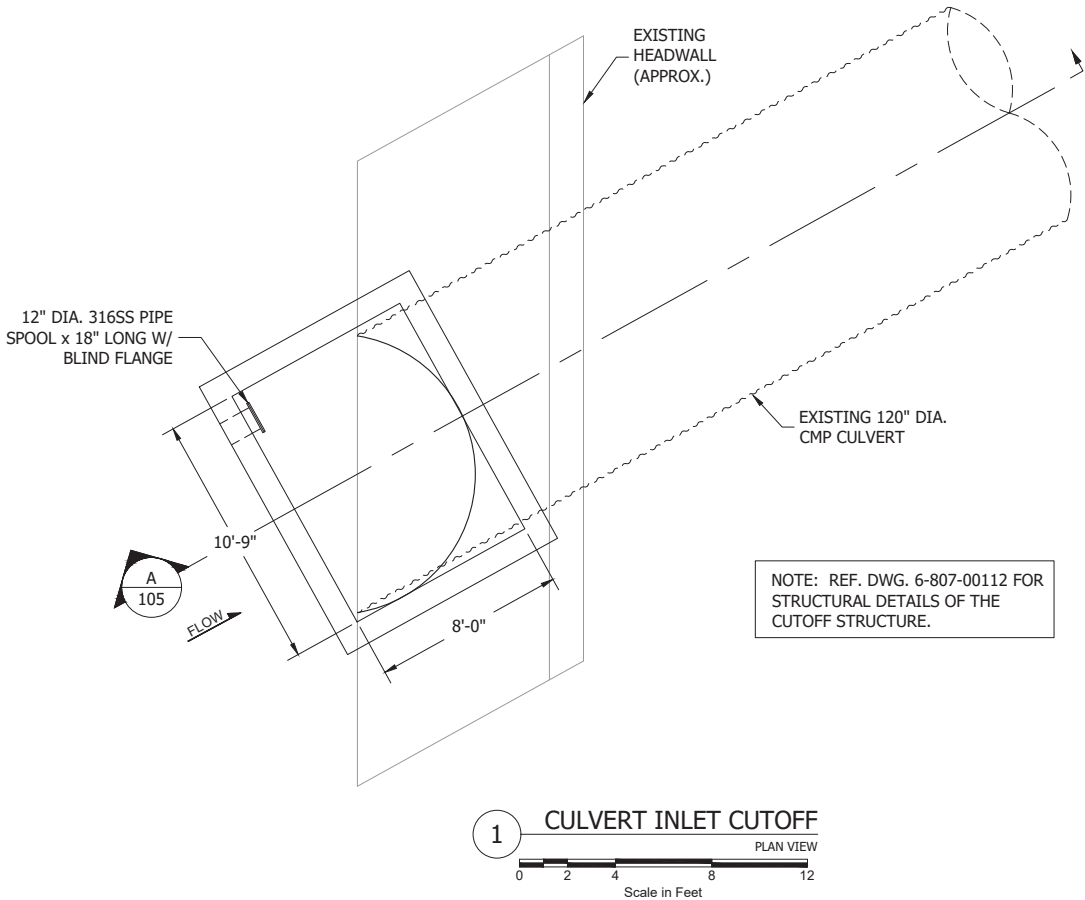
5 DAM SEEPWATER COLLECTION AREA		Climax Molybdenum Climax Mine	
SECONDARY CONTAINMENT SYSTEM		MADE BY SAA	01/23
SEEPAGE CUTOFF AND PUMP STATION		CHECKED BY SMM	01/23
PLAN AND PROFILE		PROJECT NUMBER 1051.19.17	DRAWING NO. 6-807-00104



EXISTING CULVERT INLET - 1



EXISTING CULVERT INLET - 2



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REVISIONS	NO.	DATE	MADE BY	CKD. BY	REMARKS
	1	06/23	SAA	SMM	ISSUE FOR BIDDING
	2	08/23	SAA	SMM	ISSUE FOR CONSTRUCTION
	3	10/23	SAA	SMM	REVISED BUILDING AND SLAB DIMENSIONS
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	5	11/24	SAA	SMM	RECORD DRAWING

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REFERENCE DWGS	DRAWING NO.	REFERENCE



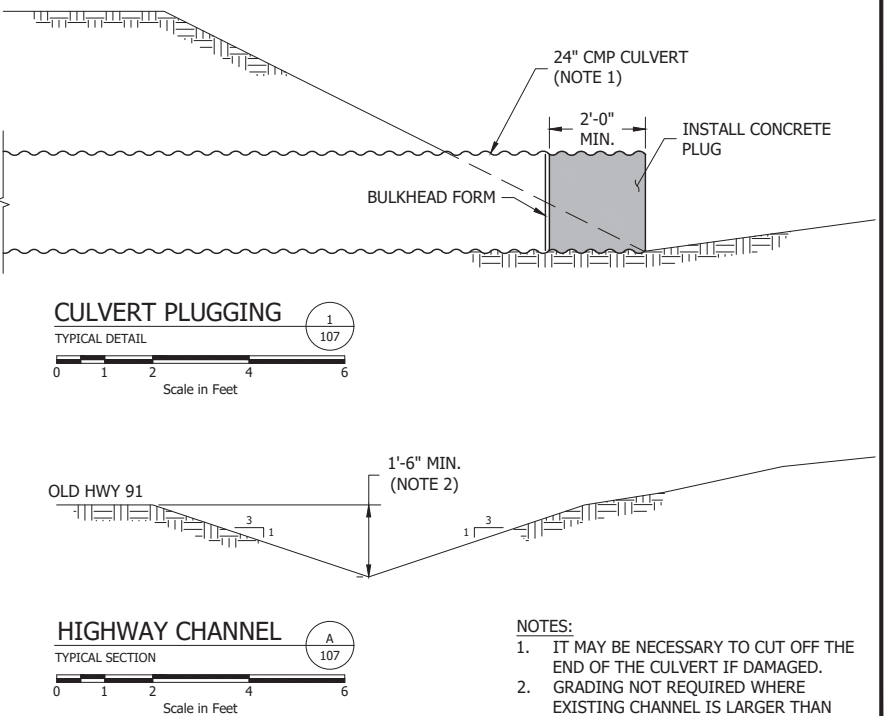
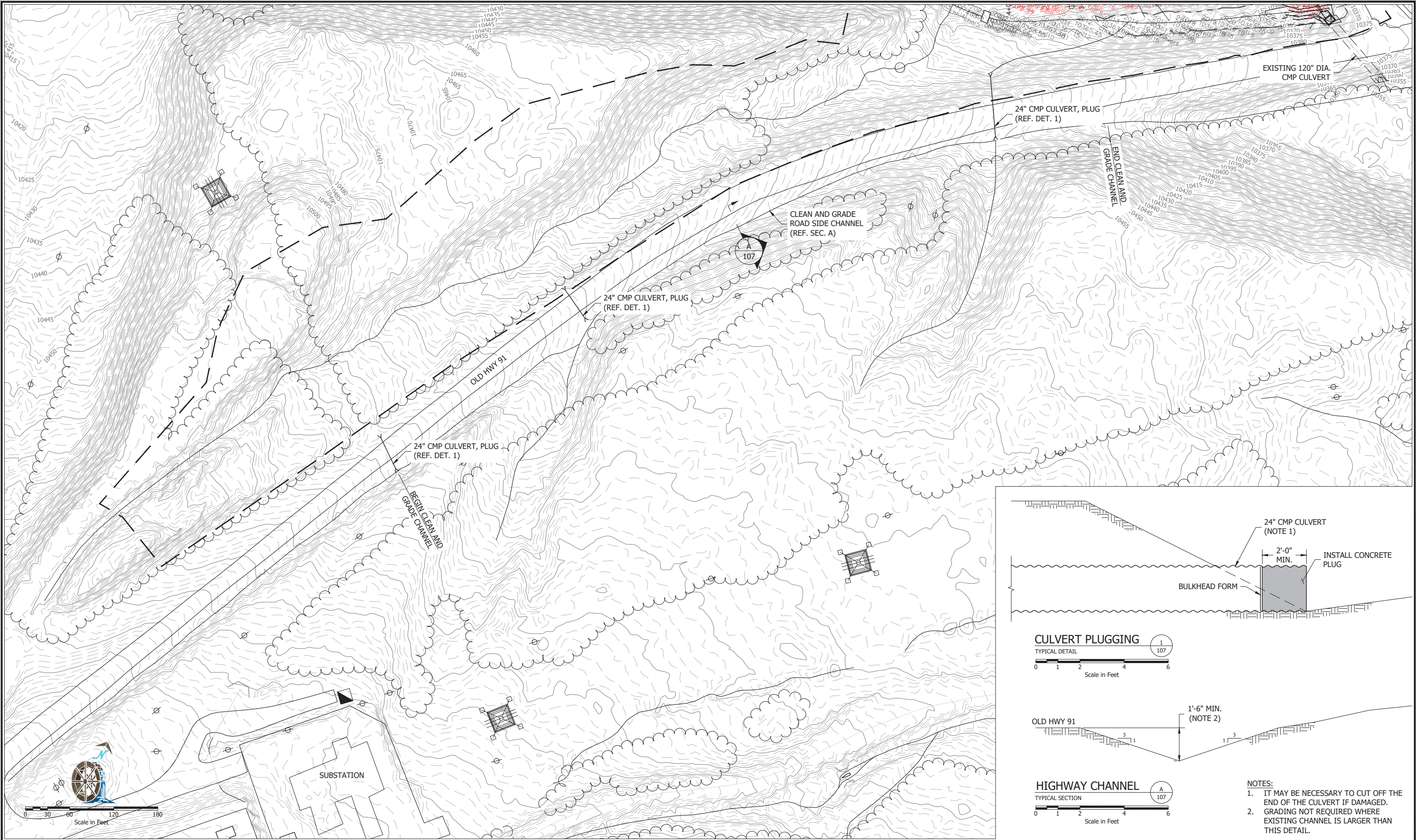
A Freeport-McMoRan Company



3700 S. INCA STREET
ENGLEWOOD, CO 80110-3405
303-761-4130

5 DAM SEEPWATER COLLECTION AREA		Climax Molybdenum Climax Mine		
SECONDARY CONTAINMENT SYSTEM		Climax, CO		
GENERAL ARRANGEMENT	MADE BY	SAA	01/23	PROJECT NUMBER 1051.19.17
	CHECKED BY	SMM	01/23	DRAWING NO.
	ACCEPTED BY	...		6-807-00105

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- NOTES:
1. IT MAY BE NECESSARY TO CUT OFF THE END OF THE CULVERT IF DAMAGED.
 2. GRADING NOT REQUIRED WHERE EXISTING CHANNEL IS LARGER THAN THIS DETAIL.

REVISIONS	NO.	DATE	MADE BY	CKD. BY	REMARKS
	△	06/23	SAA	SMM	ISSUE FOR BIDDING
	△	08/23	SAA	SMM	ISSUE FOR CONSTRUCTION
	△	10/23	SAA	SMM	REVISED BUILDING AND SLAB DIMENSIONS
	△	05/24	SAA	SMM	REVISED BUILDING SUBGRADE
	△	11/24	SAA	SMM	RECORD DRAWING

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Climax Molybdenum
A Freeport-McMoRan Company

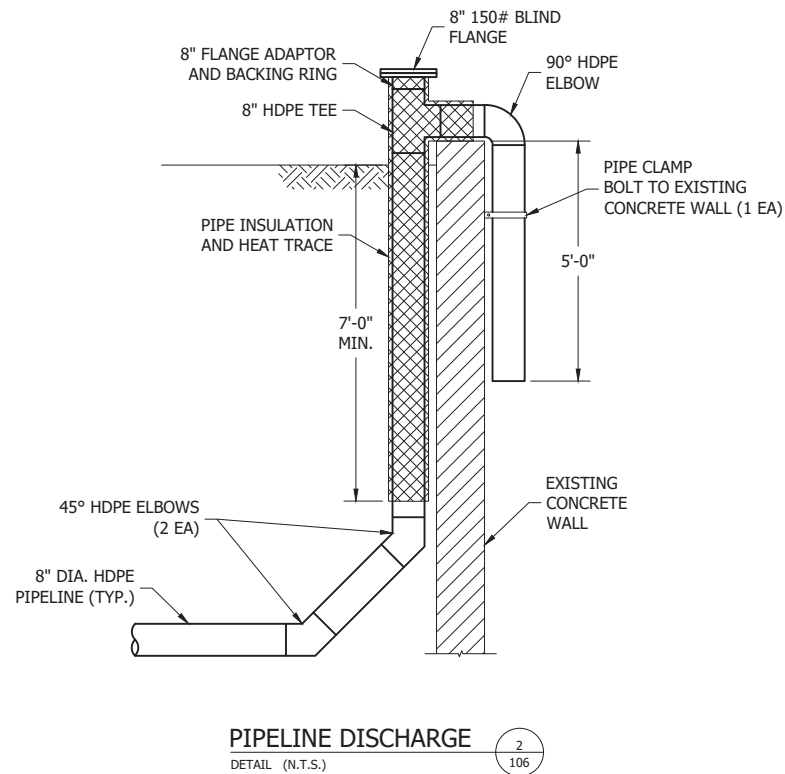
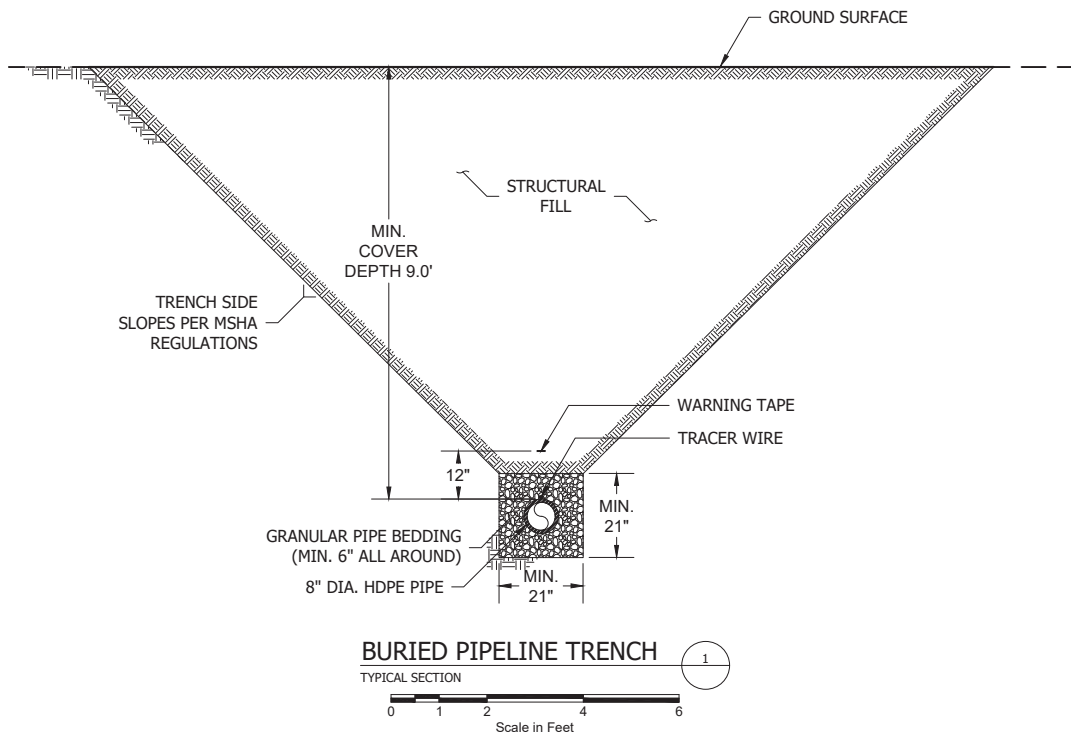




W. W. WHEELER & ASSOCIATES, INC.
Water Resources Engineers

3700 S. INCA STREET
ENGLEWOOD, CO 80110-3405
303-761-4130

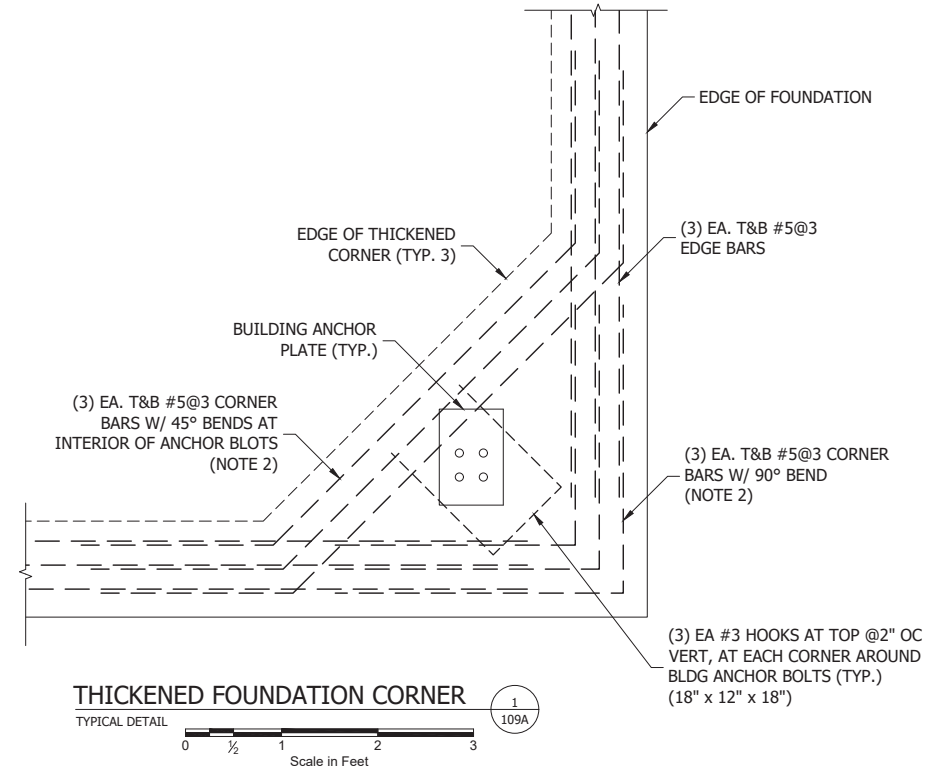
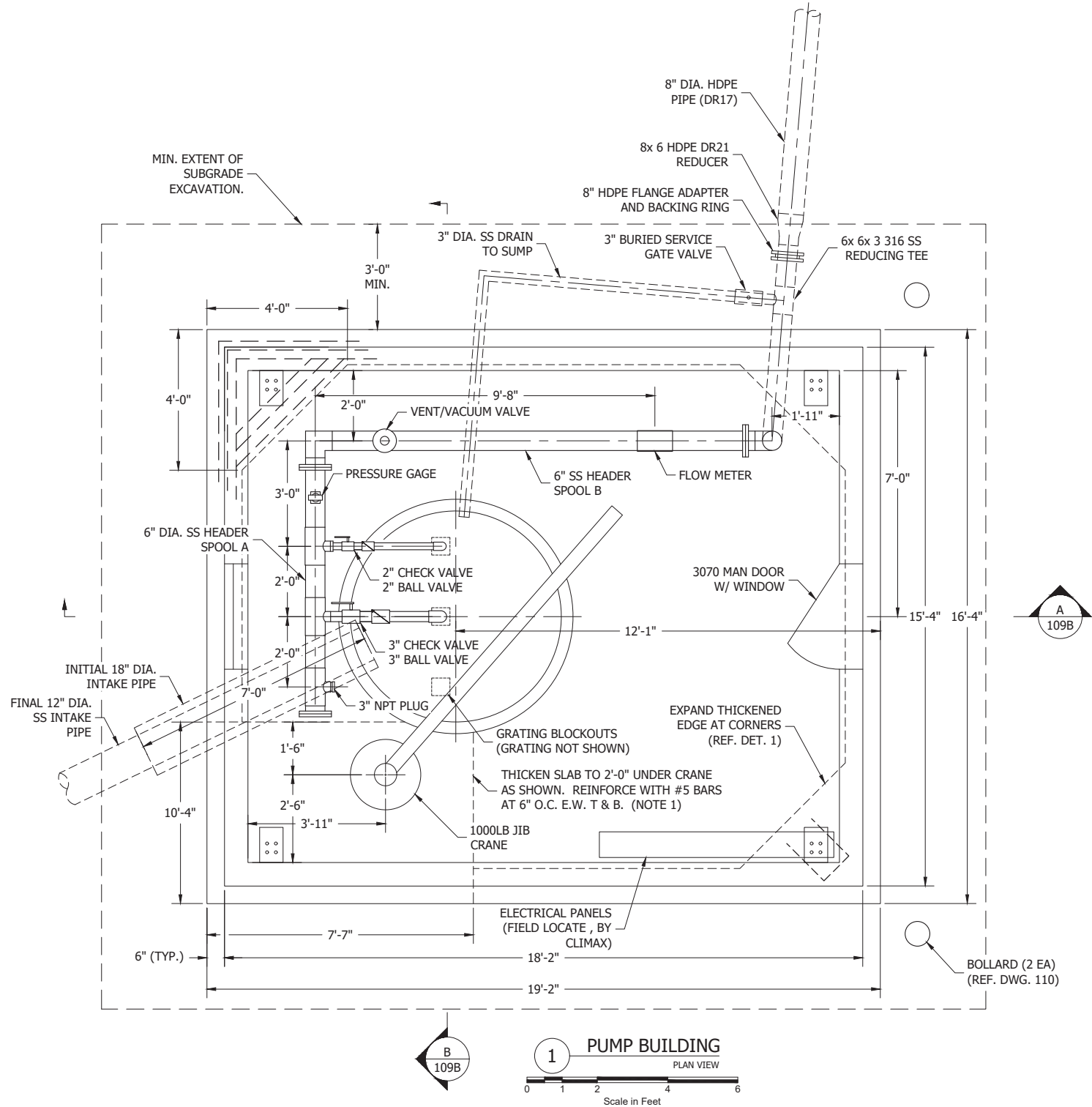
5 DAM SEEPWATER COLLECTION AREA		Climax Molybdenum Climax Mine Climax, CO		
SECONDARY CONTAINMENT SYSTEM		MADE BY SAA	01/23	PROJECT NUMBER 1051.19.17
OLD HIGHWAY DRAINAGE MODIFICATIONS		CHECKED BY SMM	01/23	DRAWING NO.
PLAN AND DETAILS		ACCEPTED BY ...		6-807-00107

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REVISIONS	NO.	DATE	MADE BY	CKD. BY	REMARKS	<i>"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."</i>	REFERENCE DWGS	DRAWING NO.	REFERENCE	 A Freeport-McMoRan Company	5 DAM SEEPWATER COLLECTION AREA		Climax Molybdenum Climax Mine Climax, CO		
	△	06/23	SAA	SMM	ISSUE FOR BIDDING						SECONDARY CONTAINMENT SYSTEM		MADE BY SAA	01/23	PROJECT NUMBER 1051.19.17
	△	08/23	SAA	SMM	ISSUE FOR CONSTRUCTION						MISCELLANEOUS CIVIL DETAILS		CHECKED BY SMM	01/23	DRAWING NO.
	△	10/23	SAA	SMM	REVISED BUILDING AND SLAB DIMENSIONS						SECTIONS		ACCEPTED BY ...		6-807-00108
	△	05/24	SAA	SMM	REVISED BUILDING SUBGRADE										
	△	11/24	SAA	SMM	RECORD DRAWING										
										 Water Resources Engineers	3700 S. INCA STREET ENGLEWOOD, CO 80110-3405 303-761-4130				

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- NOTES:
1. IN ADDITION TO TYPICAL SLAB REBAR. TRANSITION SLAB TO TYPICAL THICKNESS AT PERIMETER OF CRANE FOUNDATION WITH 45° SLOPE AND EXTEND BOTTOM BARS WITH TRAPEZE EXTENSIONS. ALL CRANE AREA BARS TO HAVE A MIN. 24" LAP WITH TYPICAL SLAB REBAR.
 2. ALL CORNER BARS TO HAVE A MIN. 24" LAP WITH TYPICAL THICKENED EDGE REBAR.

REVISIONS	NO.	DATE	MADE BY	CHKD. BY	REMARKS	REFERENCE DWGS	DRAWING NO.	REFERENCE	 A Freeport-McMoRan Company	 W. W. WHEELER & ASSOCIATES, INC. Water Resources Engineers	3700 S. INCA STREET ENGLEWOOD, CO 80110-3405 303-761-4130	5 DAM SEEPWATER COLLECTION AREA		Climax Molybdenum Climax Mine Climax, CO		
	△	06/23	SAA	SMM	ISSUE FOR BIDDING							SECONDARY CONTAINMENT SYSTEM		MADE BY SAA	01/23	SCALE 1051.19.17
	△	08/23	SAA	SMM	ISSUE FOR CONSTRUCTION							PUMP BUILDING		CHECKED BY SMM	01/23	DRAWING NO.
	△	10/23	SAA	SMM	REVISED BUILDING AND SLAB DIMENSIONS							PLAN AND DETAIL		ACCEPTED BY ...		6-807-00109A
	△	04/24	CWN	SMM	REVISED SLAB SUBGRADE											

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NOTES:

- IN ADDITION TO TYPICAL SLAB REBAR. TRANSITION SLAB TO TYPICAL THICKNESS AT PERIMETER WITH 45 DEGREE SLOPE AND EXTEND BOT. BARS WITH TRAPEZE EXTENSIONS. ALL CRANE AREA BARS TO HAVE A MIN. 24" LAP WITH TYPICAL SLAB REBAR.
- IMPORTED STRUCTURAL FILL SHALL CONFORM TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, COLORADO DEPARTMENT OF TRANSPORTATION SECTION 703.03: AGGREGATE FOR BASES, CLASS 6, AND SHALL CONSIST OF THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	PERCENT PASSING (BY WEIGHT)
1-INCH	100
3/4-INCH	95-100
#4 (4.75 MM)	30-65
#8 (2.36 MM)	25-55
#200 (75 UM)	3-12
- SUBMIT MATERIAL SPECIFICATIONS TO ENGINEER FOR APPROVAL.
- IMPORTED STRUCTURAL FILL SHALL BE PLACED IN HORIZONTAL LIFTS NOT EXCEEDING A THICKNESS OF 8" BEFORE COMPACTION.
- IMPORTED STRUCTURAL FILL SHALL BE COMPACTIONED TO A MINIMUM OF 95% OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY IN ACCORDANCE WITH ASTM D698.
- THE IN-PLACE MOISTURE CONTENT OF IMPORTED STRUCTURAL FILL SHALL BE WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557.

PUMP BUILDING
SECTION



A
109A

REFERENCE DWGS

DRAWING NO.

REFERENCE

Climax Molybdenum
A Freeport-McMoRan Company



W. W. WHEELER & ASSOCIATES, INC.
Water Resources Engineers

3700 S. INCA STREET
ENGLEWOOD, CO 80110-3405
303-761-4130

5 DAM SEEPWATER COLLECTION AREA

SECONDARY CONTAINMENT SYSTEM

PUMP BUILDING

SECTIONS

Climax Molybdenum Climax Mine
Climax, CO

MADE BY
SAA

01/23

SCALE
1051.19.17

CHECKED BY
SMM

01/23

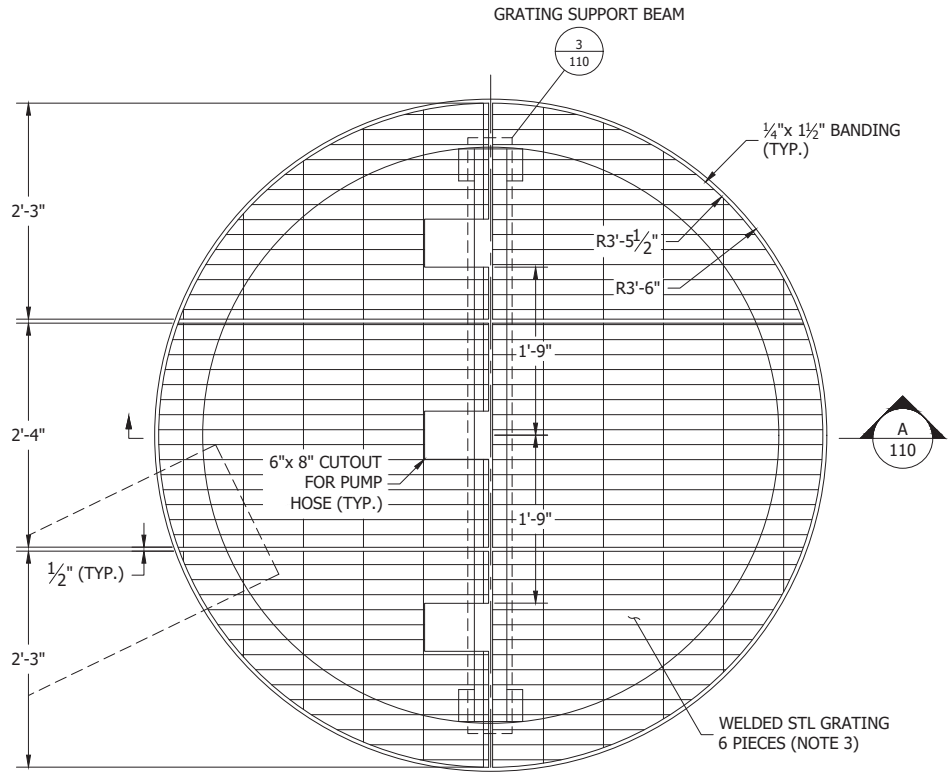
DRAWING NO.

6-807-00109B

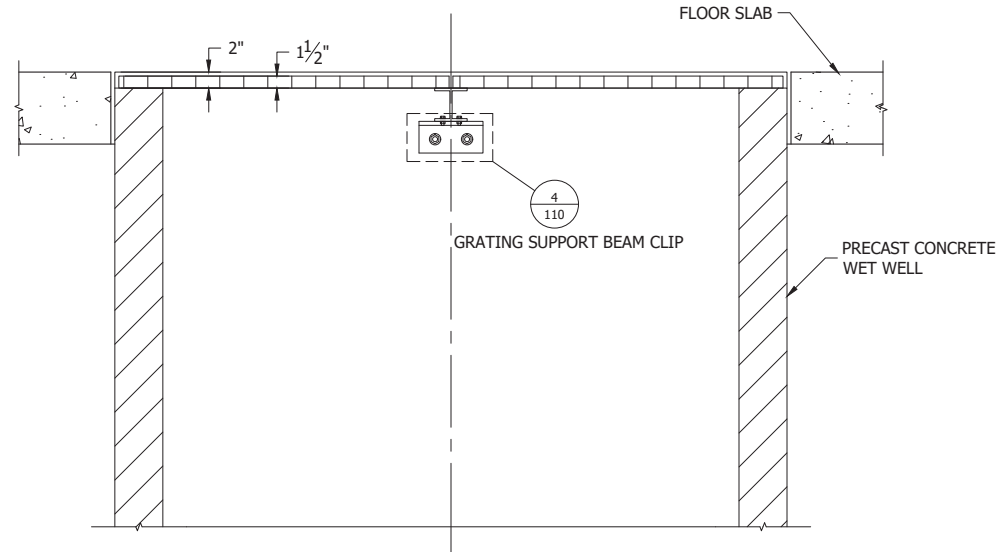
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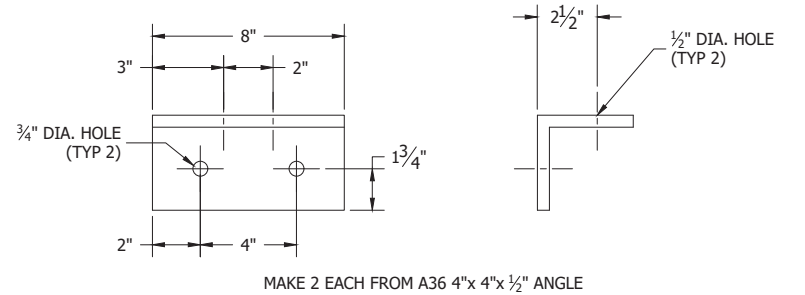
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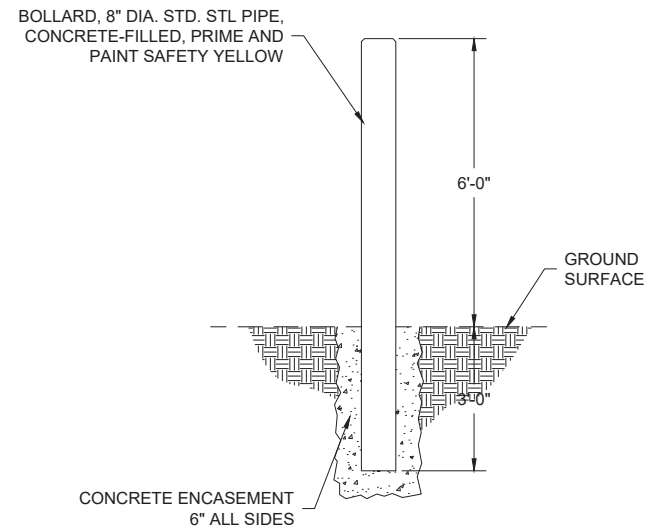
1 WET WELL GRATING
PLAN VIEW
Scale in Feet



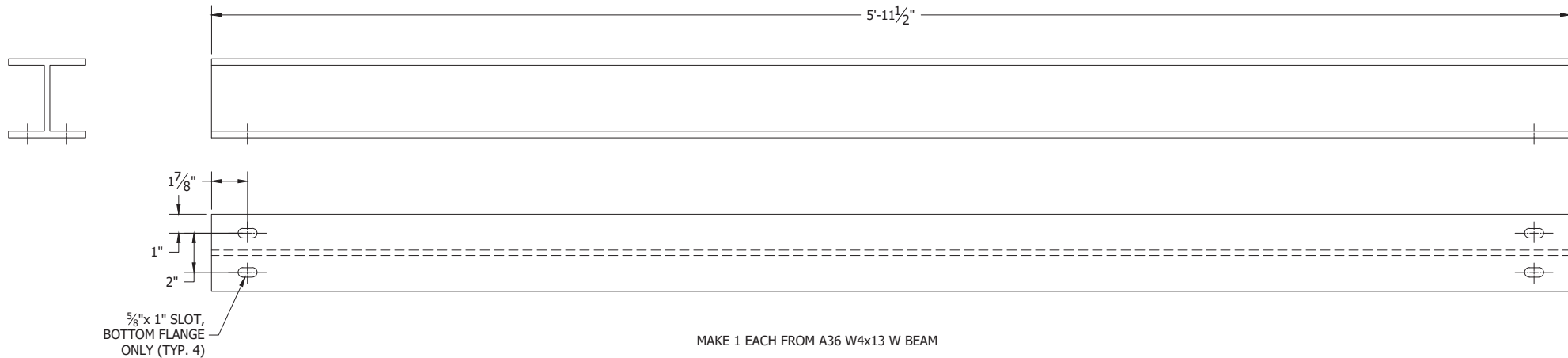
WET WELL GRATING
SECTION
Scale in Feet



GRATING SUPPORT BEAM CLIP
TYPICAL DETAIL
Scale in Inches




SAFETY BOLLARD
TYPICAL DETAIL
Scale in Feet



GRATING SUPPORT BEAM
DETAIL
Scale in Inches

- METALWORK NOTES:
1. PRIME AND PAINT GRATING SUPPORT BEAM AND CLIPS AFTER FABRICATION.
 2. USE SHERWIN-WILLIAMS MACROPOXY 649, 6 MILS DFT MIN., COLOR: WHITE.
 3. ASTM A1011 19-4-W (1 1/2"x 3/16" BARS), NOTE BEARING BAR DIRECTION.
 4. HOT-DIP GALVANIZE GRATING SECTIONS AFTER FABRICATION.
 5. SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL BEFORE PURCHASING.








REVISIONS	NO.	DATE	MADE BY	CKD. BY	REMARKS	<i>"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."</i>	REFERENCE DWGS	DRAWING NO.	REFERENCE	 A Freeport-McMoRan Company	5 DAM SEEPWATER COLLECTION AREA		Climax Molybdenum Climax Mine Climax, CO		
	△	06/23	SAA	SMM	ISSUE FOR BIDDING										
	△	08/23	SAA	SMM	ISSUE FOR CONSTRUCTION										
	△	10/23	SAA	SMM	REVISED BUILDING AND SLAB DIMENSIONS										
	△	05/24	SAA	SMM	REVISED BUILDING SUBGRADE										
	△	11/24	SAA	SMM	RECORD DRAWING										
											SECONDARY CONTAINMENT SYSTEM		MADE BY SAA	01/23	PROJECT NUMBER 1051.19.17
											MISCELLANEOUS DETAILS		CHECKED BY SMM	01/23	DRAWING NO.
													ACCEPTED BY ...		6-807-00110

R:\1000\1051\1051.19\1051.19.17 Secondary Containment\DRAWINGS\SRD\SheetFiles\10511917-005 11-26-24 08:07am scotta XREFS: Climax24x36 Climax_4C;

MATERIAL LIST					
ITEM NO.	UNIT	QTY	DESCRIPTION	PURCHASER	NOTES / LOCATION
HDPE PIPE AND FITTINGS					
100	LF	650	8" IPS DR 21 HDPE PIPE, PE4710, 50' LENGTHS, IN ACCORDANCE WITH SPECIFICATION 02530: HDPE PIPE.	OWNER	STATION 0+00 TO 6+32. APPROX. 10 EXTRA.
101	EA	1	8" X 6" IPS DR 21 HDPE MOLDED REDUCER, PE4710, IN ACCORDANCE WITH SPECIFICATION 02530: HDPE PIPE.	OWNER	STATION 0+05
102	EA	1	6" IPS DR 21 HDPE FLANGE ADAPTER, PE 4710, IN ACCORDANCE WITH SPECIFICATION 02530: HDPE PIPE.	OWNER	STATION 0+05
103	EA	1	6" IPS BACKING RING, EPOXY COATED DUCTILE IRON, PRESSURE RATED MIN. 100 PSI, IPP DELTAFLEX BUP-SDR21, IN ACCORDANCE WITH SPECIFICATION 02530: HDPE PIPE.	OWNER	STATION 0+05
104	EA	1	8" IPS DR 21 HDPE 90 DEG. MOLDED ELBOW, PE4710, IN ACCORDANCE WITH SPECIFICATION 02530: HDPE PIPE.	OWNER	STATION 6+32
105	EA	2	8" IPS DR 21 HDPE 45 DEG. MOLDED ELBOW, PE4710, IN ACCORDANCE WITH SPECIFICATION 02530: HDPE PIPE.	OWNER	STATION 6+32
106	EA	1	8" IPS DR 21 HDPE MOLDED TEE, PE4710, IN ACCORDANCE WITH SPECIFICATION 02530: HDPE PIPE.	OWNER	STATION 6+32
107	EA	1	8" IPS DR 21 HDPE FLANGE ADAPTER, PE 4710, IN ACCORDANCE WITH SPECIFICATION 02530: HDPE PIPE.	OWNER	STATION 6+32
108	EA	1	8" IPS BACKING RING, EPOXY COATED DUCTILE IRON, PRESSURE RATED MIN. 100 PSI, IPP DELTAFLEX BUP-SDR21, IN ACCORDANCE WITH SPECIFICATION 02530: HDPE PIPE.	OWNER	STATION 6+32
109					
110					
111					
112	LF	40	18" DUAL-WALL CORRUGATED HDPE PIPE, GASKETED WATERTIGHT JOINTS	CONTRACTOR	PUMP STATION INTAKE LINE
STEEL/PVC/RUBBER PIPE AND FITTINGS					
200	EA	1	8" PVC BLIND FLANGE, MIN. 25 PSI, 150# DRILLING	CONTRACTOR	STATION 6+32
201	LF	16	6" DIA. SCH 10 316SS PIPE, ASTM A312	CONTRACTOR	PUMP STATION AREA
202	LF	16	3" DIA. SCH 10 316SS PIPE, ASTM A312	CONTRACTOR	PIPELINE DRAIN
203	EA	1	6" SCH 10 316SS HEADER SPOOL A, ASTM A312. REF. DWG. 6-807-00109. SUBMIT SHOP DWG. FOR APPROVAL.	CONTRACTOR	PUMP STATION
204	EA	1	6" SCH 10 316SS HEADER SPOOL B, ASTM A312. REF. DWG. 6-807-00109. SUBMIT SHOP DWG. FOR APPROVAL.	CONTRACTOR	PUMP STATION
205	EA	2	6" DIA. SCH 10 316SS TEE, WELD FITTING, ASTM A182	CONTRACTOR	PUMP STATION
206	EA	2	6" DIA. SCH 10 316SS 90-DEG. ELBOW, WELD FITTING, ASTM A182	CONTRACTOR	PUMP STATION
207	EA	1	3" DIA. SCH 10 316SS 90-DEG. ELBOW, WELD FITTING, ASTM A182	CONTRACTOR	PUMP STATION
208	EA	2	6" 150 LB. BLIND FLANGE, 316 STAINLESS STEEL, RAISED FACE, ANSI B16.5	CONTRACTOR	PUMP STATION
209	EA	2	6" 150 LB. SLIP-ON FLANGE, 316 STAINLESS STEEL, RAISED FACE, ANSI B16.5	CONTRACTOR	PUMP STATION
210	EA	1	6" 150 LB. WELDNECK FLANGE, 316 STAINLESS STEEL, RAISED FACE, ANSI B16.5	CONTRACTOR	PUMP STATION
211	EA	2	3" 150 LB. SLIP-ON FLANGE, 316 STAINLESS STEEL, RAISED FACE, ANSI B16.5	CONTRACTOR	PIPELINE DRAIN
212	EA	1	6" X 6" X 3" SCH 10 316SS REDUCING TEE, WELD FITTING, ASTM A182	CONTRACTOR	PIPELINE DRAIN
213	EA	1	12" DIA. SCH 10 316SS PIPE SPOOL, ASTM A312, 1'6" LONG, 150 LB. FLANGE ON ONE END.	CONTRACTOR	CULVERT CUTOFF WALL DRAIN
214	EA	1	12" 150 LB. BLIND FLANGE, 316 STAINLESS STEEL, RAISED FACE, ANSI B16.5	CONTRACTOR	CULVERT CUTOFF WALL DRAIN
215	LF	20	2" DIA. PUMP DISCHARGE HOSE. QUICK CONNECT ENDS. 50 PSI MIN. RATING. VERIFY LENGTH.	OWNER	PUMP STATION
216	LF	20	3" DIA. PUMP DISCHARGE HOSE. QUICK CONNECT ENDS. 50 PSI MIN. RATING. VERIFY LENGTH.	OWNER	PUMP STATION
217	EA	1	2" NPT X QUICK CONNECT TRANSITION FITTING.	CONTRACTOR	PUMP STATION
218	EA	1	3" NPT X QUICK CONNECT TRANSITION FITTING.	CONTRACTOR	PUMP STATION
219	EA	4	6" PIPE BOLLARD, 9 FEET LONG, SCH 40.	CONTRACTOR	PUMP STATION, PIPELINE DISCHARGE
VALVES					
300	EA	1	1/2" NPT COMBINATION AIR VALVE, 1" DEZURIK/APCO ASU COMBINATION AIR VALVE W/ 1" TO 1/2" NPT BUSHING, ALL 316 SS CONSTRUCTION.	CONTRACTOR	PUMP STATION
301	EA	1	3" BURIED SERVICE GATE VALVE, MUELLER MODEL A-2362, FLANGED ENDS, 2" NUT, RIGHT OPEN	CONTRACTOR	PIPELINE DRAIN
302	EA	2	1/2" NPT BALL VALVE, 316 SS, LEVER HANDLE, APOLLO MODEL 76F OR EQUAL.	CONTRACTOR	PUMP STATION
303	EA	1	3" NPT BALL VALVE, 316 SS, LEVER HANDLE, APOLLO MODEL 76F OR EQUAL.	CONTRACTOR	PUMP STATION
304	EA	1	2" NPT BALL VALVE, 316 SS, LEVER HANDLE, APOLLO MODEL 76F OR EQUAL.	CONTRACTOR	PUMP STATION
305	EA	1	3" NPT Check Valve, In-line Spring Assisted, Durachoice Model VCSL1-200, 316 SS	CONTRACTOR	PUMP STATION
306	EA	1	2" NPT Check Valve, In-line Spring Assisted, Durachoice Model VCSL1-300, 316 SS	CONTRACTOR	PUMP STATION
PUMP STATION EQUIPMENT AND INSTRUMENTS					

MATERIAL LIST					
ITEM NO.	UNIT	QTY	DESCRIPTION	PURCHASER	NOTES / LOCATION
400	EA	1	SUBMERSIBLE PUMP, TSURUMI MODEL 50SFQ2.75, 1 HP, 316SS, 75 GPM AT 21-FT TDH.	OWNER	PUMP STATION
401	EA	1	SUBMERSIBLE PUMP, TSURUMI MODEL 80SFQ23.7, 5 HP, 316SS, 250 GPM AT 31-FT TDH.	OWNER	PUMP STATION
402	EA	1	7.5 KW ELECTRIC UNIT HEATER	OWNER	PUMP STATION
403	EA	1	JIB CRANE BY HARRINGTON WITH 10 FT REACH, 360-DEGREE SWIVEL, CHAIN OPERATED HOIST, 1000 LB. CAPACITY, STANDARD FINISH.	CONTRACTOR	PUMP STATION
404	EA	1	ICE-AWAY BY AIR-O-LATOR CORP., MODEL #IA-5, 1/2 HP, 115-V, 100' CORD. WITH PE FLOAT AND PROPELLER GUARD.	OWNER	PUMP STATION
405	EA	1	FLOW METER FOR 6" DIA. 316SS PIPE. ENDRESS & HAUSER PROSONIC 91W W/ LOCAL DISPLAY. 4-20 MA.	OWNER	PUMP STATION
406	EA	1	SUMP LEVEL INDICATOR - VEGA VEGAPULS 31, ON-SITE DISPLAY, 4-20 MA, MIN. 20 FEET RANGE.	OWNER	PUMP STATION
407	EA	1	HEADER PRESSURE INDICATOR - VEGA VEGABAR 28 PRESSURE SENSOR WITH VEGADIS EXTERNAL DISPLAY, 4-20 MA	OWNER	PUMP STATION
STRUCTURAL					
500	EA	1	PUMP STATION BUILDING, 12' W X 15' L X 8' H, ALL METAL CONSTRUCTION, PER SPECIFICATIONS 13300 AND DRAWING 6-807-00109.	OWNER	PUMP STATION
501	EA	1	72" ID PRECAST CONCRETE MANHOLE: BASE RISER W/ INTEGRAL BASE SLAB (5' TALL), 2 EA. RISER SECTIONS (6' TALL), RISER SECTION (2'-10" TALL) WITH SQUARE TOP, ALL WITH STD. MANHOLE LADDER RUNGS (SIZE AND SPACE PER MANUFACTURERS RECOMMENDATIONS), T&G JOINT, PIPE CUTOUT SIZE AND LOCATION PER DWG. 6-807-00109.	OWNER	PUMP STATION WET WELL
502	Lot	1	PUMP STATION BASE SLAB REINFORCED CONCRETE,IN ACCORDANCE WITH SPECIFICATION 03300: CAST-IN-PLACE CONCRETE	CONTRACTOR	PUMP STATION
503	Lot	1	CULVERT INLET CUTOFF WALL REINFORCED CONCRETE, IN ACCORDANCE WITH SPECIFICATION 03300: CAST-IN-PLACE CONCRETE	CONTRACTOR	CULVERT INLET CUTOFF WALL
504	EA	4	STEEL PIPE SUPPORT FOR 6" CS PIPE W/ STANCHION BASE PLATE. ANVIL 63T OR APPROVED EQUIVALENT. PLAIN FINISH	CONTRACTOR	PUMP STATION PIPE SUPPORTS
505	EA	1	STEEL PIPE SUPPORT FOR 3" CS PIPE W/ STANCHION BASE PLATE. ANVIL 63T OR APPROVED EQUIVALENT. PLAIN FINISH	CONTRACTOR	PUMP STATION PIPE SUPPORTS
506	EA	1	STEEL PIPE SUPPORT FOR 2" CS PIPE W/ STANCHION BASE PLATE. ANVIL 63T OR APPROVED EQUIVALENT. PLAIN FINISH	CONTRACTOR	PUMP STATION PIPE SUPPORTS
507	Lot	1	WET WELL GRATING, IN ACCORDANCE WITH DRAWING 6-807-00110.	CONTRACTOR	PUMP STATION
508	EA	1	GRATING SUPPORT BEAM ASSEMBLY, IN ACCORDANCE WITH DRAWING 6-807-00110.	CONTRACTOR	PUMP STATION
509	EA	1	U CLAMP FOR BOLTING 8.625" OD HDPE PIPE TO CONCRETE WALL, 316 SS	CONTRACTOR	PIPELINE DISCHARGE
MISCELLANEOUS					
600	LF	650	PIPE TRACER WIRE, PER DRAWINGS AND SPECIFICATION 02530: HDPE PIPE	CONTRACTOR	8" PIPELINE
601	LF	650	PIPE WARNING TAPE, PER DRAWINGS AND SPECIFICATION 02530: HDPE PIPE	CONTRACTOR	8" PIPELINE
602	CY	75	GRANULAR PIPE BEDDING, IN ACCORDANCE WITH SPECIFICATION 02330: EARTHWORK	CONTRACTOR	8" PIPELINE BEDDING
603	CY	150	GRANULAR PIPE BEDDING, IN ACCORDANCE WITH SPECIFICATION 02330: EARTHWORK	CONTRACTOR	24" CULVERT BEDDING
604	CY	50	STRUCTURAL SUBGRADE GRAVEL, IN ACCORDANCE WITH SPECIFICATION 02330: EARTHWORK	CONTRACTOR	PUMP STATION, CUTOFF WALL
605	Lot	1	PIPE INSULATION. REF. DWG. 108.	CONTRACTOR	PIPELINE DISCHARGE
606	EA	1	VALVE CURB BOX. CONTRACTOR TO DETERMINE MODEL, PART NUMBER, AND LENGTH	CONTRACTOR	PIPELINE DRAIN

- NOTES:
- NOT ALL MATERIALS FOR CONSTRUCTION ARE LISTED. SMALL ITEMS SUCH AS GROUT, CONCRETE, REBAR, BOLTS, BUSHINGS, SEALANT, ETC. ARE NOT LISTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL MATERIALS REQUIRED TO COMPLETE THE PROJECT.
 - NO ELECTRICAL MATERIALS ARE LISTED.
 - SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL BEFORE PURCHASE.
 - SUBMIT PRODUCT DATA TO ENGINEER FOR APPROVAL IN ACCORDANCE WITH THE SPECIFICATIONS.
 - CONTRACTOR IS RESPONSIBLE FOR VERIFYING ITEMS AND QUANTITIES IN MATERIAL LIST ABOVE.

REVISIONS	NO.	DATE	MADE BY	CKD. BY	REMARKS	<i>"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."</i>	REFERENCE DWGS	DRAWING NO.	REFERENCE	<div>Climax Molybdenum A Freeport-McMoRan Company</div> <div>W. W. WHEELER & ASSOCIATES, INC. Water Resources Engineers</div> <div>3700 S. INDA STREET ENGLEWOOD, CO 80110-3405 303-761-4130</div>	5 DAM SEEPWATER COLLECTION AREA		Climax Molybdenum Climax Mine Climax, CO		
		06/23	SAA	SMM	ISSUE FOR BIDDING						SECONDARY CONTAINMENT SYSTEM		MADE BY SAA	01/23	PROJECT NUMBER 1051.19.17
		08/23	SAA	SMM	ISSUE FOR CONSTRUCTION								CHECKED BY SMM	01/23	DRAWING NO.
		10/23	SAA	SMM	REVISED BUILDING AND SLAB DIMENSIONS								ACCEPTED BY ...		6-807-00111
		05/24	SAA	SMM	REVISED BUILDING SUBGRADE										
		11/24	SAA	SMM	RECORD DRAWING										

GENERAL NOTES

DESIGN CRITERIA

Code:	International Building Code (IBC), 2018 Edition		
Soil:	Density, assumed	120 pcf	wet gravel/sand
	EGP, culvert / hill side	90 pcf	wet gravel/sand sloping upward
	EGP, side walls	45 pcf	wet gravel/sand sloping down
	EGP, front wall	62.4 pcf	water
	Allowable soil bearing	4,000 psf	
Wind:	Velocity (ultimate)	115 mph	
	Exposure	C	
Seismic:	Seismic Design Category B		

GENERAL CONDITIONS AND REQUIREMENTS

1. The use of these drawings constitutes a contractual agreement between the Contractor and the Owner. Thus, these Contract Documents take precedence over trade practices and third party specifications.
2. The term "Engineer" shall be taken to mean the Structural Engineer of Record. Third party entries are specifically noted as "Professional Engineer," "Contractor's Engineer," "Designer," etc.
3. Contractor is responsible for obtaining access to all codes, standards, specifications, reports, third party literature, etc. referenced in these documents.
4. Contractor shall field measure and verify all existing conditions and dimensions at job site. In the event that existing conditions or dimensions vary from those shown on the drawings, Contractor shall notify the Engineer so proper adjustments can be made.
5. Contractor shall check and verify all dimension and other information shown on structural drawings with those shown and non-structural, including architectural and other disciplines. Contractor shall notify the Engineer of any discrepancies between structural and non-strucral drawings, or with structural drawings. When such discrepancies occur, the most stringent requirements shall govern unless written clarification is obtained from the Engineer.
6. All Contractors, Subcontractors, Fabricators, Suppliers, and other jobsite personnel shall at all times comply with the Occupational Safety and Health Administration (OSHA) Standards - 29 CFR, Parts 1910 ("Occupational Safety and Health Standards") and 1926 ("Safety and Health Regulations for Construction").
7. Drawings represent a finished product, and do not address the means and methods necessary to complete the construction. During the erection of the structure, the Contractor shall be responsible for temporary bracing to withstand all loads to which the structure may be subjected, including lateral loads, stockpiles of material and equipment. Such bracing shall be left in place as long as required for safety, and until all structural framing and diaphragms are in place with connections complete.
8. The term "provide" as used herein shall mean that Contractor shall furnish and install said item, including all construction, equipment, materials, etc., for a complete, finished installation.
9. Installation of proprietary products shall comply with all manufacturer's specifications and recommendations, unless otherwise noted. Product substitutions shall be subject to Engineer's review.
10. Details noted "typical" apply to all comparable conditions. Where no specific details are shown, constructions shall conform to the comparable work defined elsewhere on the project.
11. Deviations from these Contract Documents are not permitted, unless coordinated with the Architect or Engineer.
12. Third Party Quality Control: Contractor shall provide Engineer with copies of all third party structural field observation reports and test results immediately upon receipt.
13. Third Party Engineered Systems: All references to "Professional Engineer" or "P.E." shall be taken to mean a Professional Engineer currently registered in the project's jurisdiction with experience in the specific discipline of the engineered system. Construction documents are copyrighted and shall not be reproduced without written authorization from the Engineer.
14. authorization from the Engineer.
15. Items requiring review by the Engineer, such as shop drawings, product substitutions, requests for field observations, etc., shall be brought to the Engineer's attention with sufficient notice to allow the Engineer a reasonable review period.
16. The Engineer's scope of services does not include design and/or analysis of conditions resulting from Contractor errors or changes, nor does it include review of reissued submittals that were originally rejected. In these cases, the Contractor shall be subject to reimbursing the Owner for additional services incurred by the Engineer.
17. Structural Drawings are not stand-alone documents, and are intended to be used in conjunction with Civil, Architectural, Mechanical and Electrical drawings, plus all drawing from other disciplines. Structural material that are used in a non-structural applications are subject to the Structural General Notes. The Contractor shall coordinate all requirements of the Contract Documents into the Work.
18. Coordinate size and location of all openings, blockouts, floor depressions, curbs, etc. with Civil, Architectural, Mechanical, Electrical drawings, etc. as applicable, and reinforce notches, blockouts, etc. are prohibited in structural members unless specifically shown on the drawings or coordinated with the Engineer.
19. Do not scale drawings.
20. Where discrepancies exist among Drawings and General Notes, the most stringent requirements shall govern.

SUBMISSIONS

1. General Contractor shall check and stamp all shop drawing before submitting to Engineer. Unchecked submittals and /or submittals that substantially deviate from the Contract Documents will be returned without review.
2. As a minimum, shop drawings shall include comprehensive layouts, member sizes, fabrication requirements and connections as required to demonstrate complete understanding of the structural system to be constructed. Refer to individual material general notes for additional requirements.
3. Product catalog pages and reproductions of Contract Documents do not demonstrate the required understanding of the structural intent, and will be returned without review.
4. General Contractor shall submit shop drawings and proprietary documentation in a timely manner to permit minimum ten working days for review by Engineer. Contractor shall coordinate construction schedule to account for correction of errors and resubmittals, if required.
5. Engineer's review of shop drawings does not receive Contractor of responsibility to follow all requirements of the Contract Documents.
6. General Contractor shall submit in writing any requests to modify the Contract Documents. Such requests shall not be considered accepted until they have been specifically address by the Engineer. Shop drawing alone do not constitute "in writing", unless specific proposed changes are clearly identified. Proposed changes shall be coordinated by the individual initiating the change.
7. Deferred submittals are required for the following items. The Contractor shall submit these items to the Building Department after review by the Architect and /or Engineer.

a. Non-structural component attachment to structure.

NON-STRUCTURAL BUILDING COMPONENTS

Wind and seismic design of non-structural building components not otherwise defined in the structural drawings, including but not limited to partitions, suspended ceilings, mechanical and electrical equipment, piping, signage, lighting, etc. is outside the scope of the structural work. G.C. shall employ engineering services for the design and detailing of non-structural building components, including attachment to the primary building of the structure. Wind and seismic design of components and their attachment to structure shall be in accordance with Sections 1609.1 and 1613.1 of the IBC, and shall be supervised by a P.E. registered in the jurisdiction of the project. G.C. shall submit stamped designs to the Engineer and, if required by the governing jurisdiction, the Building Official.

DISCLAIMER

All design, documents and data prepared shall remain the property of J.C. Baur & Associates, Inc., and shall not be copied, changed, or disclosed in any form without written consent. J.C. Baur & Associates, Inc. shall not be responsible for any alterations or revisions made by anyone other than employees of J.C. Baur & Associates, Inc. J.C. Baur & Associates, Inc. produced the information presented on this drawing through the use of technical information and practical experience specific to its efforts. Receiving this drawings does not guarantee any rights to such technical information and practical experience. Any alteration or adaptation of the data or contents of this drawing shall be at user's sole risk and without any liability or legal responsibility to J.C. Baur & Associates, Inc.

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FOUNDATION

1. Foundations are designed using presumed bearing values noted below. Contractor shall provide written open excavation inspection report by a Geotechnical Professional Engineer prior to forming or placing foundation concrete. Foundation system is subject to change based on report findings. Contractor shall follow all recommendations of report including modifying the foundation system in accordance with revised design.
2. All footings shall rest on solid undisturbed soil or approved compacted fill. Assumed maximum design bearing capacity is 4000 psf.
3. All footings shall be the exact size and shape as shown in the structural drawings; no larger, no smaller.
4. No footings or foundation walls shall be poured before observation by the Engineer.
5. No concrete shall be poured in excavation containing wall or on frozen ground.
6. Backfill shall be placed against both sides of walls and piers simultaneously. Use only hand operated tools for compaction adjacent to foundation walls. Do not backfill until building walls have cured a minimum of 7 days, and cantilevered retaining wall have cured a minimum of 28 days.
7. Refer to Geotechnical Report, architectural drawings and/or civil drawings for complete site grading, drainage, subgrade preparation and engineered fill requirements. Slope exterior grades away from foundation in all directions. All roof downspouts and drains shall discharge well beyond the limits of all backfill, and water shall not be allowed to pond adjacent to the building. Assumed equivalent fluid pressure of saturated soil against retaining walls = 90 pcf.

CONCRETE

CONCRETE MIX DESIGN MATRIX										
Intended Use	Min. Fc at 28 days	Unit Weight	Cement Type	Max. w/c/m	% Air Content	Frz/Thaw	Sulfate	Water	Corrosion	Durability Exposure Class
Footings/Walls	4.5 ksi	145 pcf	II	0.45	4-6	F2	S2	W2	C2	
Exterior Slab-on-Grade	4.5 ksi	145 pcf	II	0.45	4-6	F2	S2	W2	C2	
Interior Slabs-on-Grade	4.5 ksi	145 pcf	II	0.45	2	F0	S1	W0	C2	

1. Concrete mixes shall conform to the above table, unless noted otherwise. Mixes shall comply with all durability requirements specified in Chapter 19 of ACI-318, based on the specified exposure class. If discrepancies exist between Chapter 19 and the above table, the most stringent requirements shall govern.
2. Material and workmanship shall be in accordance with the requirements of the American Concrete Institute "Building Code Requirements for Reinforced Concrete" (ACI 318, latest edition), and "Specifications for Structural Concrete" (ACI 301, latest edition).
3. All Cement shall conform to ASTM C 150. All fly ash and natural pozzolans shall conform to ASTM C 618. All aggregates shall conform to C 33 (NW) and/or C 330 (LW), as applicable. Water shall conform to ASTM C 1602.
4. All concrete shall have a minimum cement content of 540 lbs. per cubic yard, unless noted otherwise. Fly ash shall be used, and shall comprise no less than 15% and not more than 25% of cementitious material. Maximum aggregate size is 3/4", unless noted otherwise.
5. Calcium Chloride shall not be added to concrete.
6. Reinforcing bars shall be deformed bars and shall conform to ASTM A 615, Grade 60, unless noted otherwise. All stirrups and column ties shall conform to ASTM A 615, Grade 40. Weldable reinforcement shall conform to ASTM A 706, Grade 60.
7. Reinforcing bars shall be detailed on the shop drawing in accordance with the American Concrete Institute "ACI Detailing Manual" (ACI SP-66, latest edition), unless noted otherwise.
8. Cast-in-place steel anchor bolts shall conform to ASTM F 1554, Grade 36, unless noted otherwise.
9. Bar bending details and placing drawings shall be in accordance with the "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315, latest edition).
10. Bar supports, chairs, spacers and rebar positioners shall be used to place all bars in the exact location specified on the drawings. Wire adequately at intersections to hold bars firmly in position while concrete is placed.
11. Bar supports, chairs and spacers which rest on or against an exposed surface shall be hot-dipped galvanized.
12. Continuous bars shall lap and dowels shall project adequately to provide a Class B splice, but not less than 12 inches, unless noted otherwise.
13. Stirrups, ties, footing dowels and cantilevered reinforcement shall terminate in a standard hook at the free end(s) of the bar, unless noted otherwise.
14. Where lap splice locations of horizontal bars are not specifically noted on the drawings, lap splices are to be staggered.
15. Concrete cover for reinforcement shall be as follows, subject to the tolerances of ACI 117, unless noted otherwise:

A. Concrete poured against earth 3"

B. Concrete poured in forms but exposed to weather or earth, or concrete cast over controlled fill
(1.) #5 bars or smaller 1 1/2"
(2.) Bars larger than #5 2"

C. Columns, girders and beams (principle reinforcement, ties and stirrups) 1 1/2"

D. Slabs and Walls 3/4"

16. See mechanical and electrical drawing for additional openings, depressions, curbs, floor finishes, inserts and other embedded items.

17. Where other reinforcing is not required by the drawings, (2) #5 bars shall be located at all sides of, and adjacent to, every opening that exceeds 24" in either direction. Extend bars 24" beyond each side of opening

SPECIAL INSPECTION AND TESTS

STATEMENT OF SPECIAL INSPECTION

1. All inspection shall conform to the requirements of Section 109 of the International Building Code. All Special Inspection shall conform to the requirements of Chapter 17 of the International Building Code.
2. The owner is required to employ inspectors and special inspectors, who shall submit copies of all reports to the owner, architect, structural engineer, and the Building Department. Upon completion of their work, the inspectors and special inspectors shall submit a final signed report stating whether the work was, to the best of their knowledge, in conformance with the approved set of Contract Documents and the applicable workmanship provisions of the Building Code.
3. Inspectors and special inspector shall be qualified person(s) who demonstrate competence in their respective type of construction to the satisfaction of the Building Official.
4. The General Contractor shall coordinate with inspectors and special inspectors to incorporate the inspection schedule into the overall project construction schedule.
5. Special Inspection is required for all activities defined herein that occur for this project.
6. The Engineer of Record shall not be considered a Special Inspector.
7. The Engineer of Record shall be provided jobsite access to conduct quality assurance.

REQUIRED VERIFICATION AND INSPECTION OF SOILS


VERIFICATION AND INSPECTION		CONTINUOUS	PERIODIC
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity	-	-	X
2. Verify excavations are extended to proper depth and have reached proper material	-	-	X
3. Perform classification and testing of compacted fill materials	-	-	X
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of compacted fill	X	-	-
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly	-	-	X

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

Verification of slump, density, temperature and air content as delivered to the project site in accordance with Chapter 3 of ACI 318 and its referenced ASTM standards Verification of f'c in accordance with ACI 363.2R and its referenced ASTM standards				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
1. Inspection of reinforcing steel and placement	-	X	ACI 318: 3.5, 7.1-7.7	1910.4
2. Inspection of reinforcing steel welding in accordance with IBC 2012 Table 1705.2.2, Item 2b	-	-	AWS D1.4 ACI318: 3.5.2	
3. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used	-	X	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. Inspection of anchors post-installed in hardened concrete members	-	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1
5. Verifying use of required design mix	-	X	ACI 318: Ch. 4, 5.2-5.4	1904.2, 1910.2,
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X	-	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.3 1910.10
7. Inspection of concrete and shotcrete placement for proper application techniques	X	-	ACI 318: 5.9, 5.10	
8. Inspection of maintenance of specified curing temperature and techniques	-	X	ACI 318: 5.11-5.13	1910.6, 1910.7,
9. Verification of in-situ concrete strength prior to removal of shores and forms from beams and structural slabs	-	X	ACI 318: 6.2	1910.8 1910.9
10. Inspect formwork for shape, location, and dimensions of the concrete member being formed	-	X	ACI 318: 6.1.1	

Sheet List

Sheet Number	Sheet Name
112	COVER SHEET
113	ISOMETRICS AT CULVERT
114	PLANS AT CULVERT
115	SECTIONS AT CULVERT
116	FOUNDATION DETAILS
117	FOUNDATION DETAILS

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5 DAM SEEPWATER COLLECTION AREA		CLIMAX MOLYBDENUM CLIMAX MINE CLIMAX, CO	
SECONDARY CONTAINMENT SYSTEM		MADE BY DAN	06/27/23
COVER SHEET		CHECKED BY JLK	08/03/23
CULVERT INLET CUTOFF		ACCEPTED BY ...	1051.191.17 DRAWING NO. 6-807-00112

REVISIONS	NO.	DATE	MADE BY	CHK. BY	REMARKS	REFERENCE DWGS	DRAWING NO.	REFERENCE
	△	06/27/23	DAN	JLK	ISSUED FOR BID			
	△	08/03/23	JLK	JLK	CONSTRUCTION			
	△	12/14/23	DAN	JLK	CULVERT MODIFICATIONS			
	△	11/15/24	DAN	JLK	RECORD DRAWINGS			
	△							
	△							
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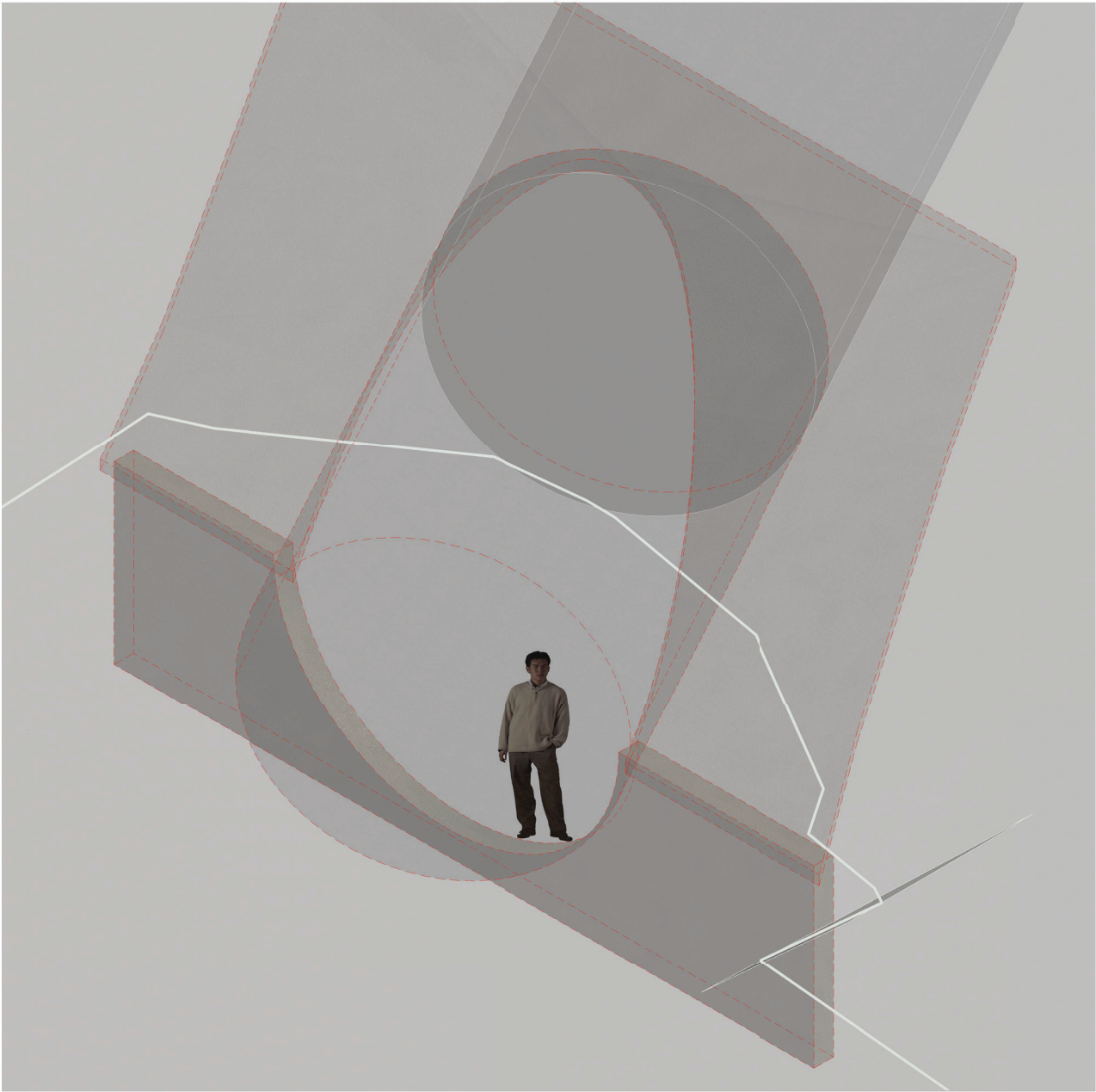


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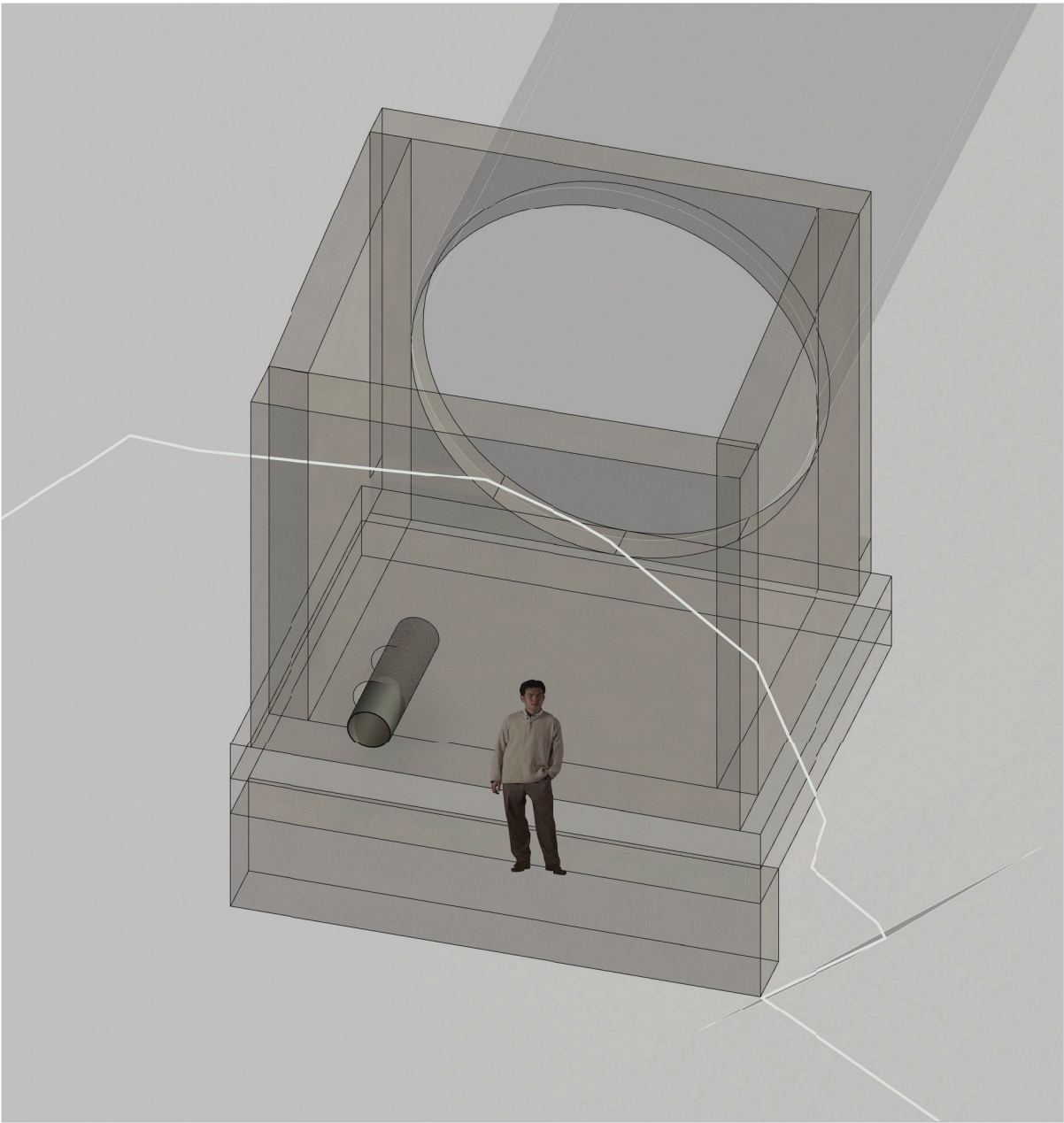


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1
113
EXISTING CULVERT ISOMETRIC



2
113
CULVERT CUTOFF ISOMETRIC

REVISIONS	NO.	DATE	MADE BY	CHK. BY	REMARKS
	1	06/27/23	DAN	JLK	ISSUED FOR BID
	2	08/03/23	JLK	JLK	CONSTRUCTION
	3	12/14/23	DAN	JLK	CULVERT MODIFICATIONS
	4	11/15/24	DAN	JLK	RECORD DRAWINGS
	5				

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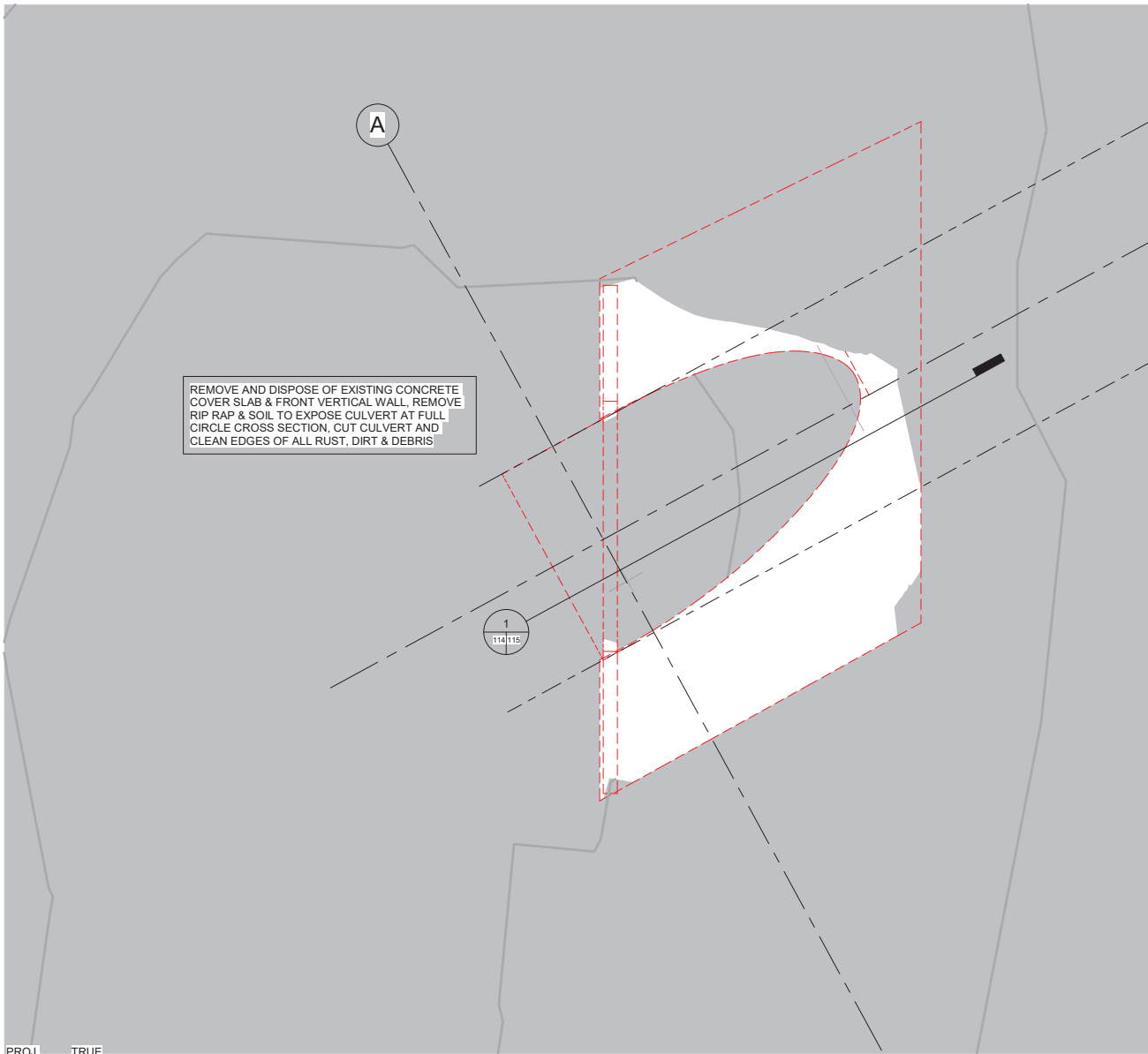
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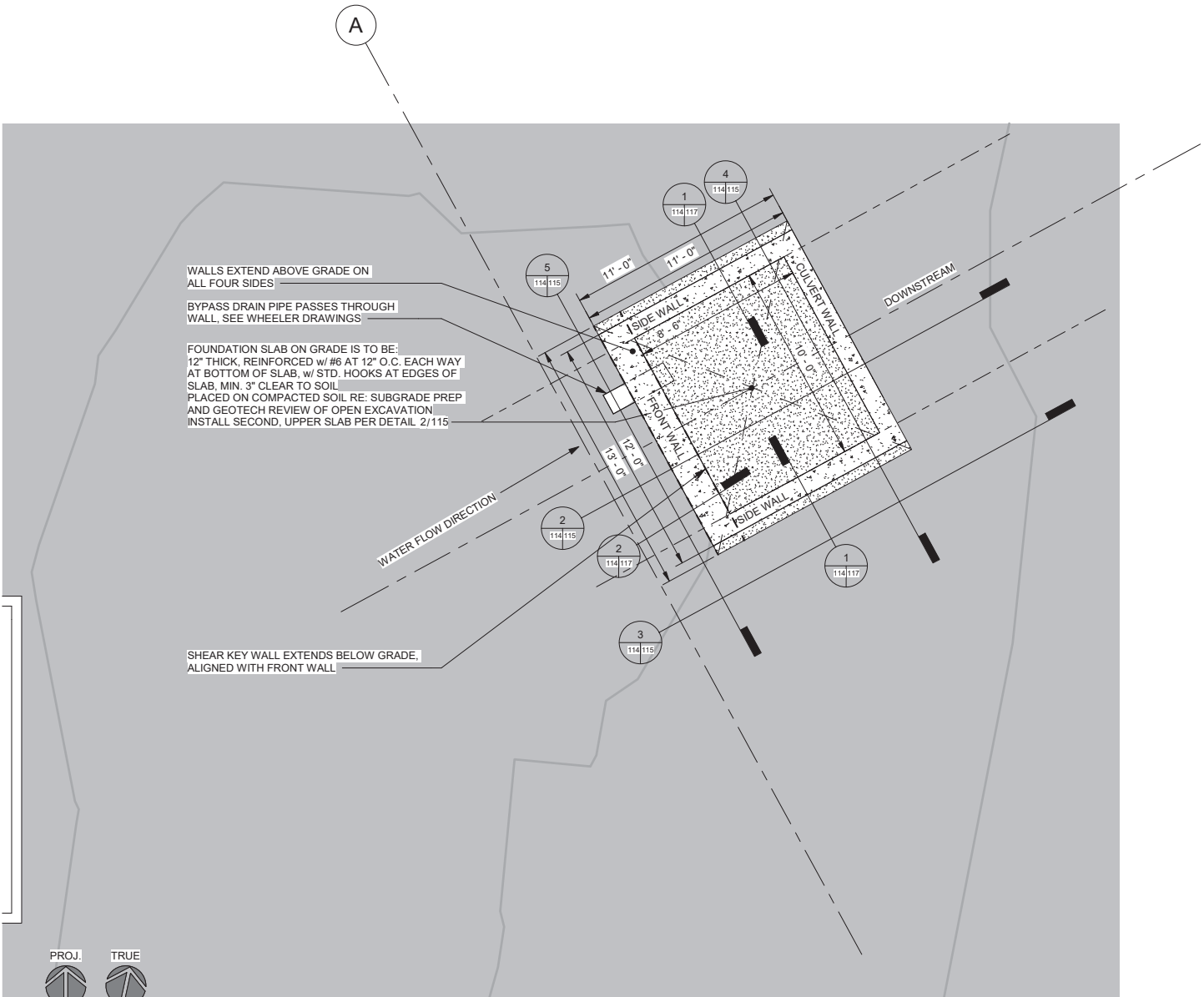
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5 DAM SEEPWATER COLLECTION AREA		CLIMAX MOLYBDENUM CLIMAX MINE CLIMAX, CO	
SECONDARY CONTAINMENT SYSTEM		MADE BY DAN	PROJECT NUMBER 1051.191.17
ISOMETRICS AT CULVERT		CHECKED BY JLK	DRAWING NO.
CULVERT INLET CUTOFF		ACCEPTED BY ...	6-807-00113 



1
114/114

EXISTING CULVERT PLAN
1/4" = 1'-0"



2
115/114

RETAINING BOX PLAN
1/4" = 1'-0"

REVISIONS	NO.	DATE	MADE BY	CHK. BY	REMARKS
	1	06/27/23	DAN	JLK	ISSUED FOR BID
	2	08/03/23	JLK	JLK	CONSTRUCTION
	3	12/14/23	DAN	JLK	CULVERT MODIFICATIONS
	4	11/15/24	DAN	JLK	RECORD DRAWINGS
	5				
	6				

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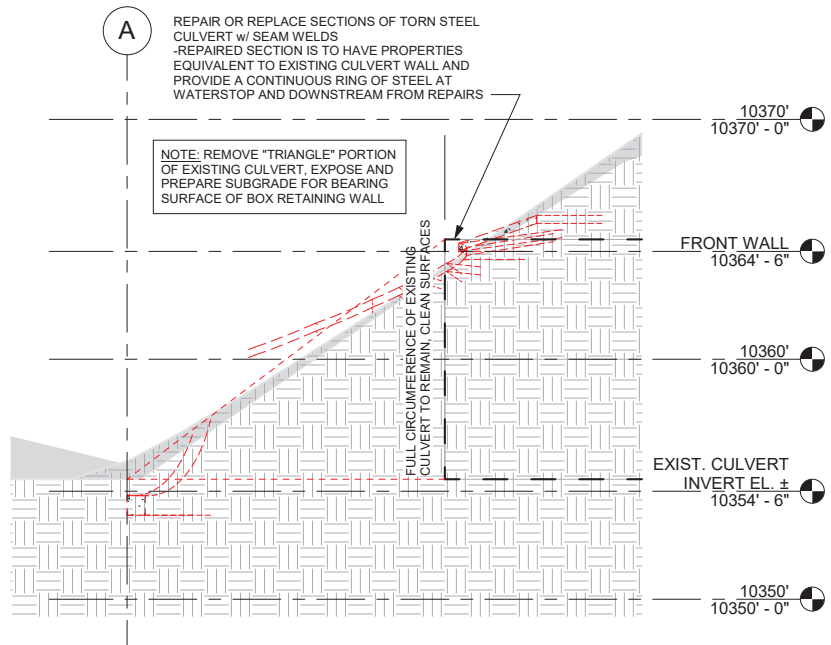
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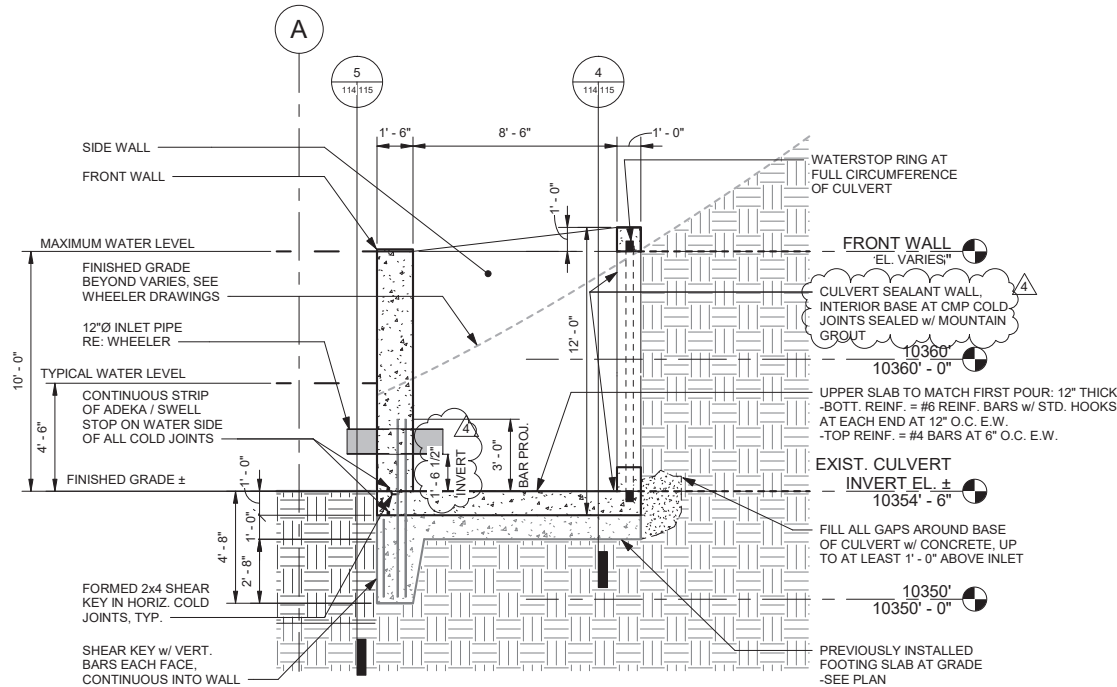
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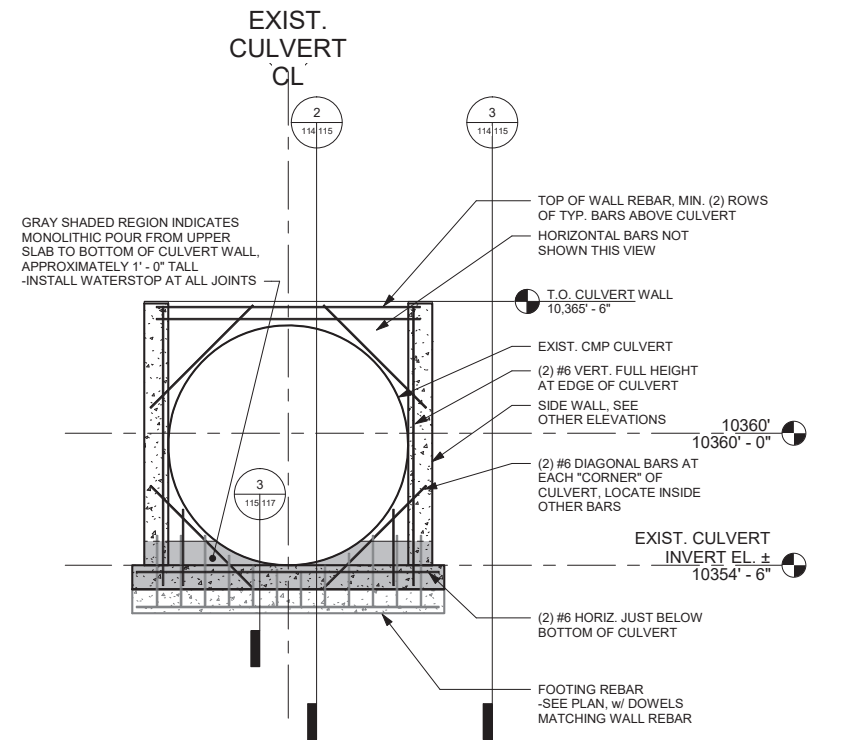
5 DAM SEEPWATER COLLECTION AREA		CLIMAX MOLYBDENUM CLIMAX MINE CLIMAX, CO	
SECONDARY CONTAINMENT SYSTEM		MADE BY DAN	PROJECT NUMBER 1051.191.17
PLANS AT CULVERT		CHECKED BY JLK	DRAWING NO.
CULVERT INLET CUTOFF		ACCEPTED BY ...	6-807-00114 



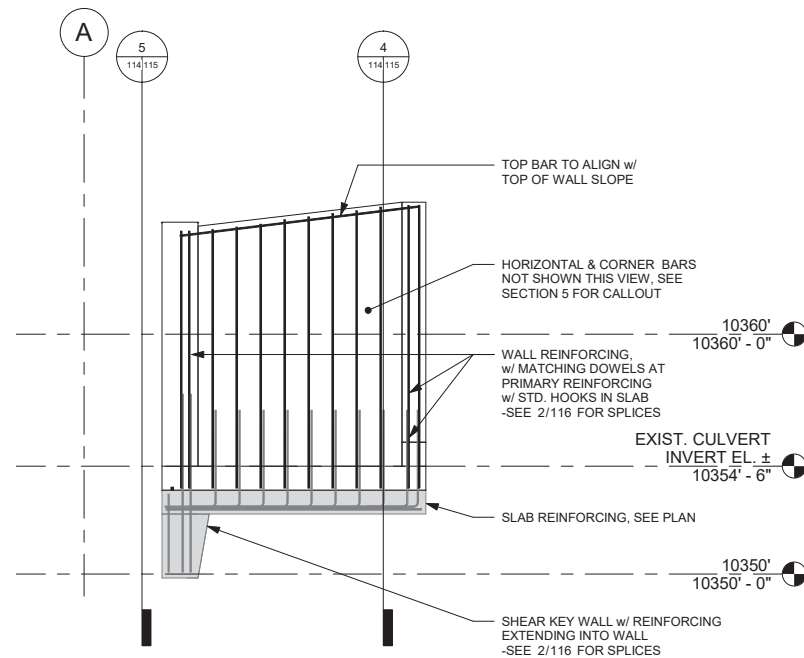
1 SECTION AT EXISTING
1/4" = 1'-0"



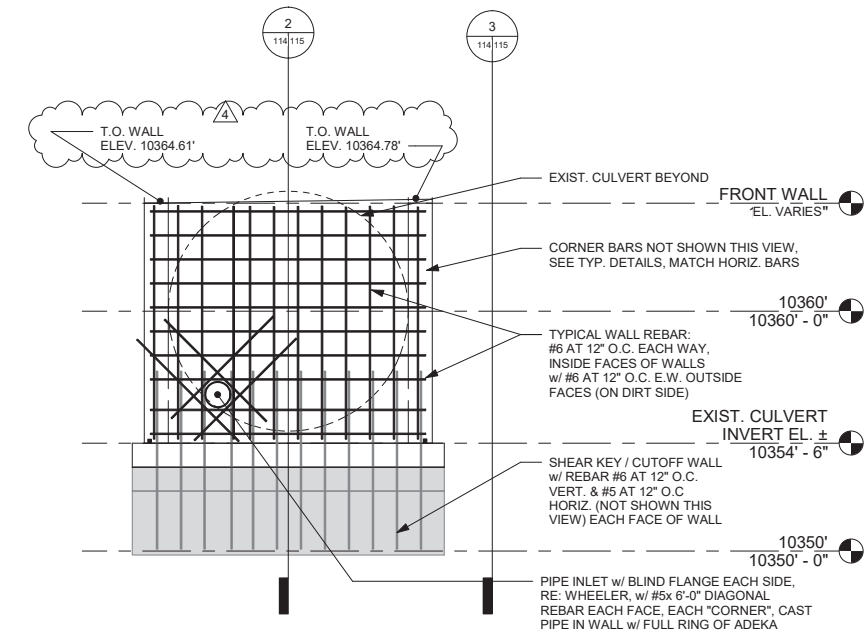
2 SECTION AT CENTER OF RETAINING BOX
1/4" = 1'-0"



4 SECTION AT CULVERT WALL
1/4" = 1'-0"



3 SECTION AT SOUTH SIDE WALL OF RETAINING BOX
1/4" = 1'-0"



5 SECTION AT FRONT WALL
1/4" = 1'-0"

NO.	DATE	MADE BY	CHK. BY	REMARKS
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3	12/14/23	DAN	JLK	CULVERT MODIFICATIONS
4	11/15/24	DAN	JLK	RECORD DRAWINGS

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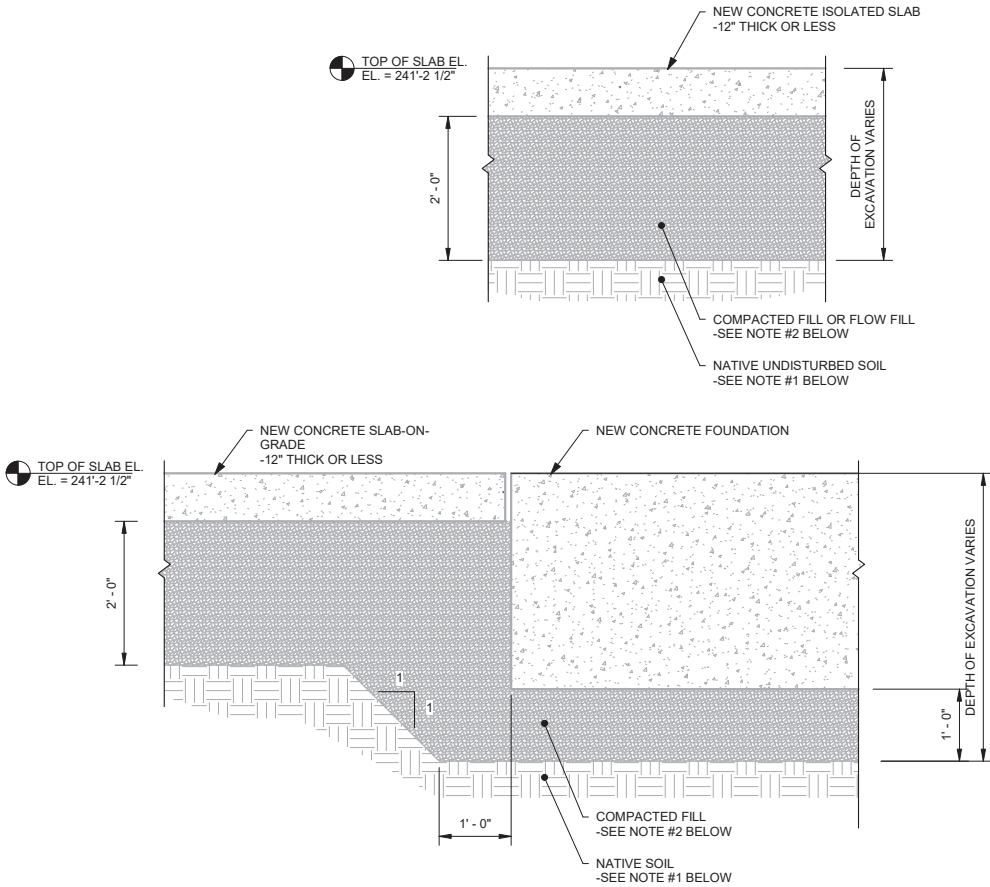
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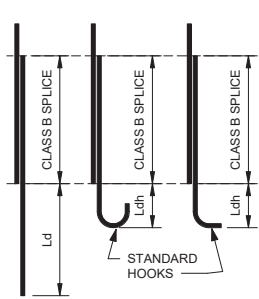
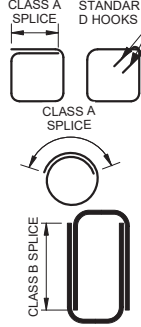
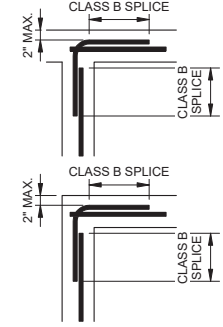
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5 DAM SEEPWATER COLLECTION AREA		CLIMAX MOLYBDENUM CLIMAX MINE CLIMAX, CO	
SECONDARY CONTAINMENT SYSTEM		MADE BY DAN	PROJECT NUMBER 1051.191.17
SECTIONS AT CULVERT		CHECKED BY JLK	DRAWING NO.
CULVERT INLET CUTOFF		ACCEPTED BY ...	6-807-00115



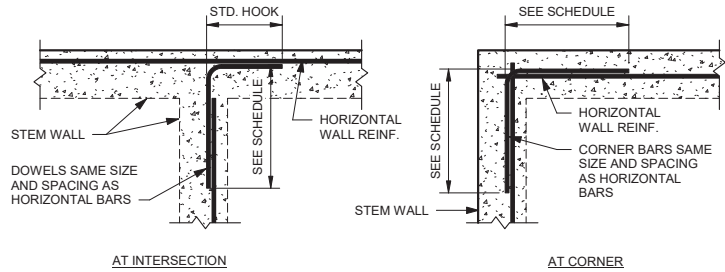
- NOTES:
1. NATIVE SOIL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO PLACING ANY FILL. ANY WEAK, YIELDING OR UNSTABLE AREAS OF EXPOSED SOIL SHALL BE REMOVED AND REPLACED W/ STRUCTURAL FILL MATERIAL.
 2. COMPACTED FILL MATERIAL SHALL CONSIST OF ONE OF THE FOLLOWING CATEGORIES:
 - a. NATIVE MATERIAL MEETING CRITERIA FOR COMPACTED AGGREGATE FILL, RE: GEOTECH. FILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8", AND COMPACTED TO $w \pm 2\%$ OF OPTIMUM MOISTURE CONTENT, TO 95% OF MODIFIED PROCTOR ASTM D 1557.
 - b. CEMENTITIOUS FLOWABLE FILL
 3. G.C. SHALL COORDINATE QUALITY ASSURANCE FOR SUBGRADE PREPARATION w/ A GEOTECHNICAL ENGINEER IN ACCORDANCE W/ THE GEOTECHNICAL REPORT.
 4. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

1 SUBGRADE PREPARATION
3/4" = 1'-0"

CONCRETE DEVELOPMENT LENGTH AND LAP SPLICE SCHEDULE ^{3,4,5}					
PRIMARY REINFORCEMENT		CLOSED TIES		CORNERS AND INTERSECTIONS	
					
CONCRETE STRENGTH $f_c = 4500$ psi, BAR YIELD STRENGTH $f_y = 60,000$ psi					
BAR SIZE	Ld AND CLASS A SPLICE (in.)		CLASS B SPLICE (in.)		Ldh (in.)
	TOP REINF. ²	OTHER REINF.	TOP REINF. ²	OTHER REINF.	
3	12	12	14	11	7
4	14	12	19	14	9
5	18	14	23	18	12
6	21	17	28	21	14

- NOTES:
1. TABULATED DEVELOPMENT LENGTHS AND BAR SPLICES SHALL BE CONSIDERED THE MINIMUM REQUIREMENT UNLESS NOTED OTHERWISE.
 2. TOP BARS ARE ANY HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.
 3. TABULATED LENGTHS/SPLICES ASSUME THE FOLLOWING: CLEAR COVER OF BARS NOT LESS THAN 1 1/2"; CLEAR SPACING BETWEEN BARS NOT LESS THAN ONE DIAMETER OR 1", WHICHEVER IS GREATER; 1 OR 2-BAR BUNDLES ONLY; NORMAL WEIGHT CONCRETE; GRADE 60 REBAR ($f_y = 60,000$ PSI); AND UNCOATED REINFORCEMENT. IF THESE CONDITIONS VARY, THEN THE TABULATED LENGTHS/SPLICES SHALL BE MULTIPLIED BY THE FOLLOWING FACTORS, AS APPLICABLE. IF MORE THAN ONE CONDITION APPLIES, THEN MULTIPLIERS SHALL BE CUMULATIVE.
CLEAR COVER LESS THAN 1 1/2".....1.60
LIGHTWEIGHT CONCRETE.....1.33
GRADE 40 REBAR.....0.67 (CONTRACTOR OPTION)
EPOXY-COATED REBAR.....1.30 FOR "TOP REINF."
1.50 FOR "OTHER REINF."
1.20 FOR Ldh
 - THE FINAL LENGTH/SPLICE SHALL NOT BE LESS THAN 6" FOR Ldh AND 12" FOR ALL OTHER CASES. FOR CONDITIONS NOT DEFINED IN THIS TABLE OR NOTES, COORDINATE LENGTHS/SPLICES WITH THE ENGINEER.
 4. MECHANICAL AND WELDED SPLICES SHALL DEVELOP 125% OF THE BAR YIELD STRENGTH f_y .
 5. IF BARS OF VARYING SIZE AND/OR STRENGTH ARE SPLICED, THEN THE LONGER SPLICE LENGTH SHALL BE USED.

2 CONCRETE DEVELOPMENT LENGTH AND LAP SPLICE SCHEDULE
1" = 1'-0"



4 WALL INTERSECTION REINFORCING
3/4" = 1'-0"

STANDARD HOOK GEOMETRY FOR PRIMARY REINFORCING IN TENSION			
TOP BAR SIZE	BEND RADIUS "R" (in.)	L_tail (in.)	
		180° HOOK	90° HOOK
3	1.3125	2.50	4.50
4	1.75	2.50	6.00
5	2.1875	2.50	7.50
6	2.625	3.00	9.00
7	3.0625	3.50	10.5
8	3.50	4.00	12.0
9	4.50	4.50	13.5

3 STANDARD HOOK GEOMETRY
1" = 1'-0"

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	1	06/27/23	DAN	JLK	ISSUED FOR BID	
	2	08/03/23	JLK	JLK	CONSTRUCTION	
	3	12/14/23	DAN	JLK	CULVERT MODIFICATIONS	
	4	11/15/24	DAN	JLK	RECORD DRAWINGS	
	5					
	6					

REFERENCE DWGS	DRAWING NO.	REFERENCE





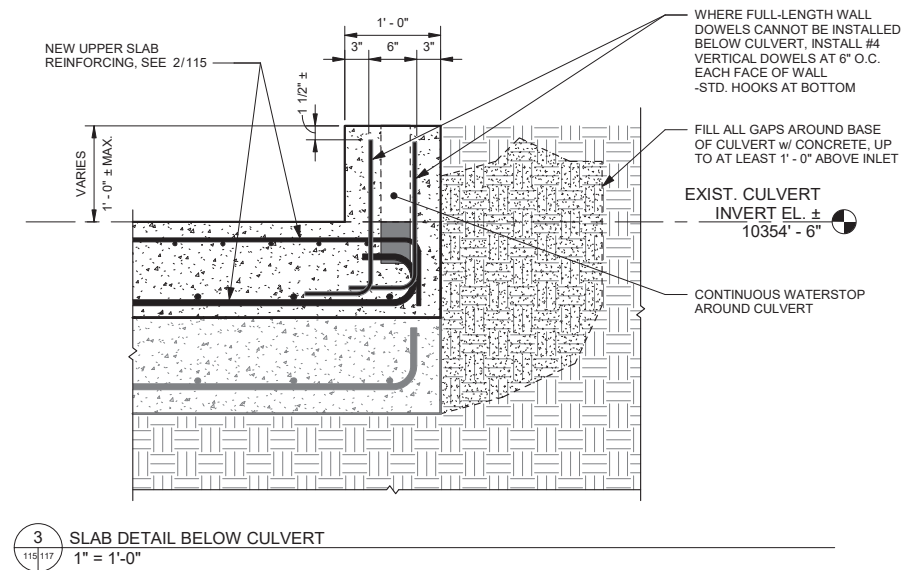
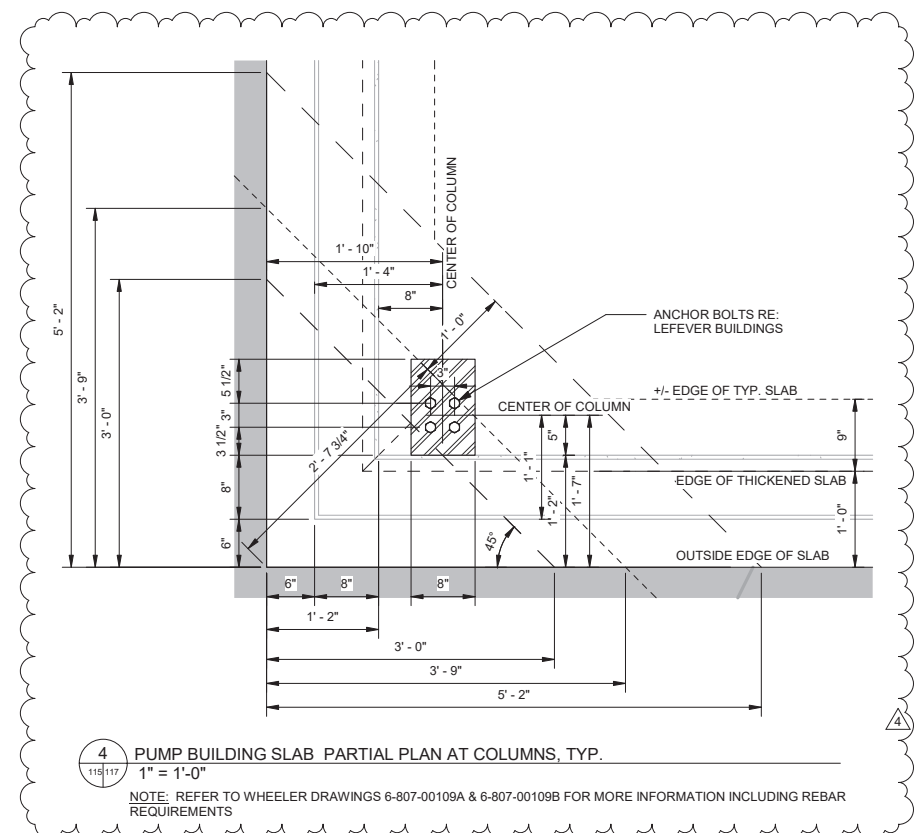
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	SECONDARY CONTAINMENT SYSTEM		MADE BY DAN	06/27/23	PROJECT NUMBER 1051.191.17 DRAWING NO. 6-807-00116 
	FOUNDATION DETAILS		CHECKED BY JLK	08/03/23	
CULVERT INLET CUTOFF		ACCEPTED BY ...			



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													SECONDARY CONTAINMENT SYSTEM	MADE BY DAN	06/27/23	PROJECT NUMBER 1051.191.17
													FOUNDATION DETAILS	CHECKED BY JLK	08/03/23	DRAWING NO. 6-807-00117
													CULVERT INLET CUTOFF	ACCEPTED BY ...		