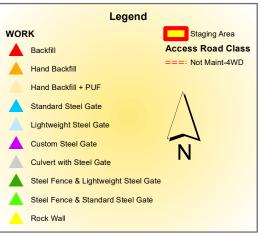


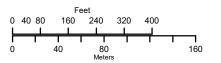
Contour Interval = 20 feet **Cookes Peak West Phase IIIB FIGURE 2-A**

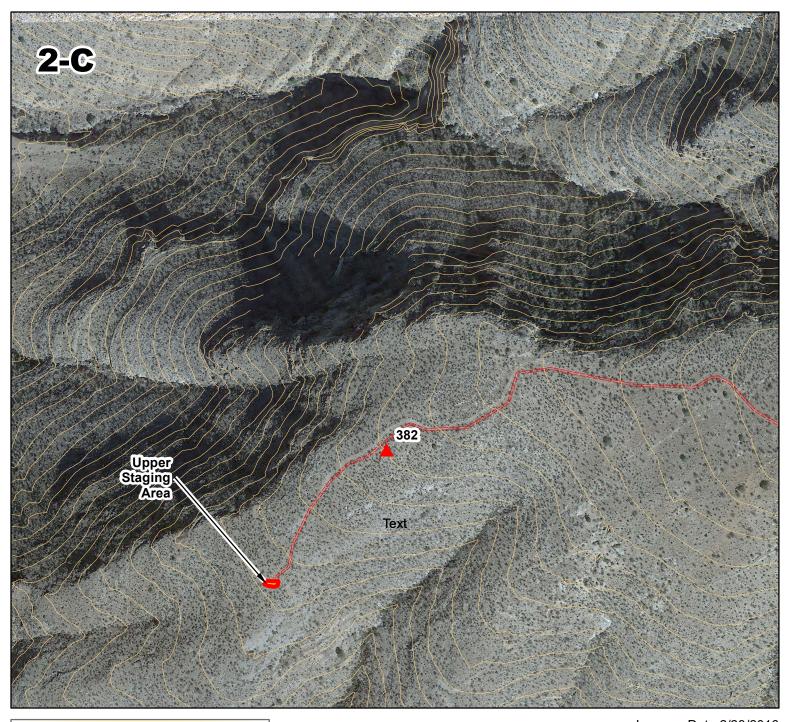
sri, HERE, Garmin, intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance NEW MEXICO ABANDONED MINE LAND PROGRAM MINING AND MINERALS DIVISION ENERGY, MINERALS & NAT. RESOURCES DEPT. SANTA FE, NEW MEXICO PROJECT NO. EMNRD-MMD-2020-01

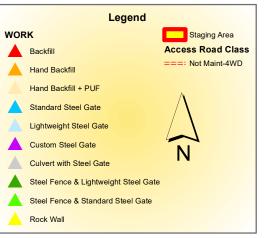








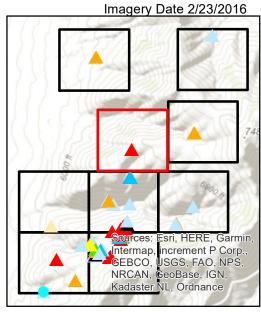


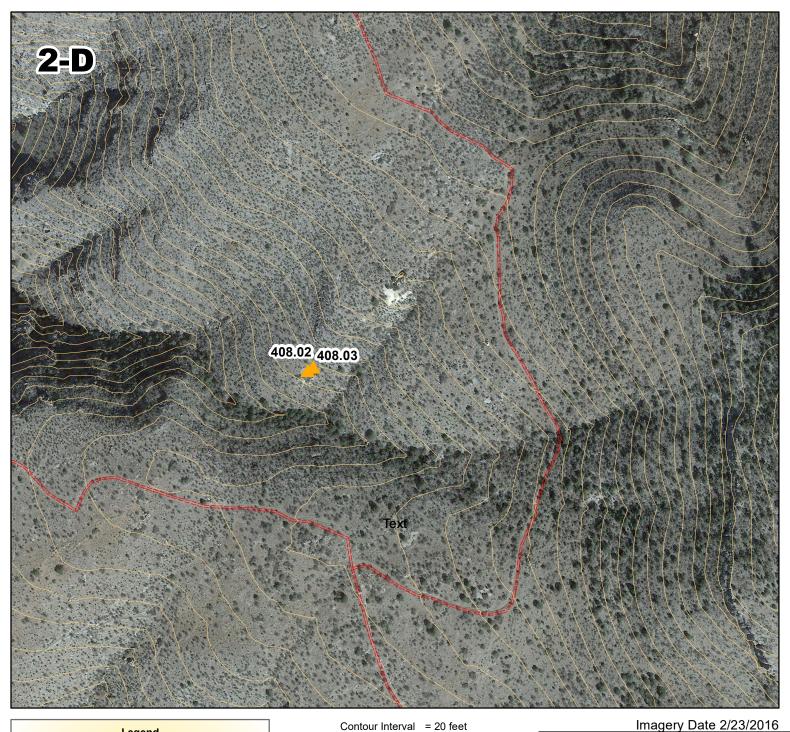


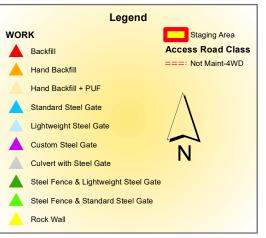
320 400

160

Contour Interval = 20 feet
Cookes Peak
West Phase IIIB
FIGURE
2-C



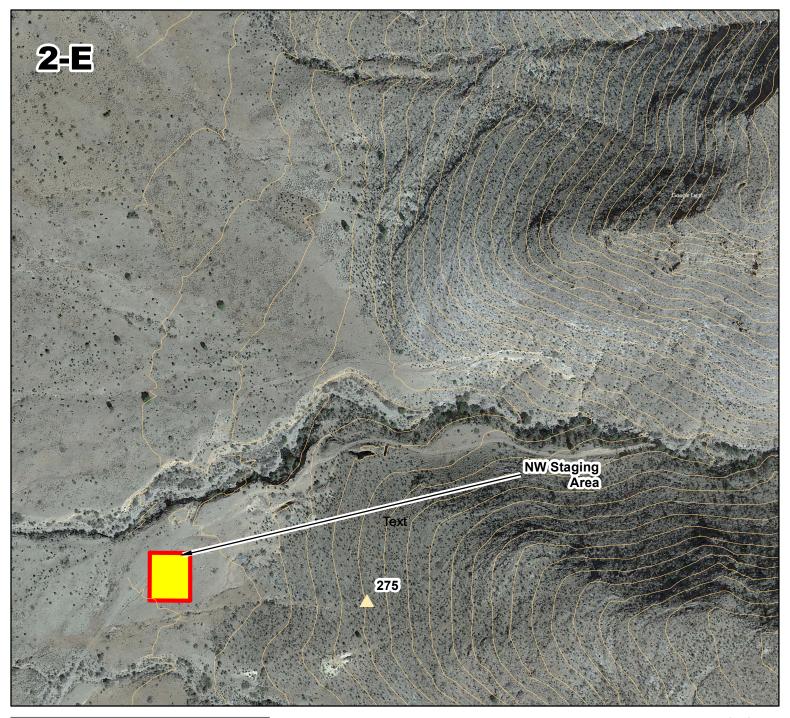


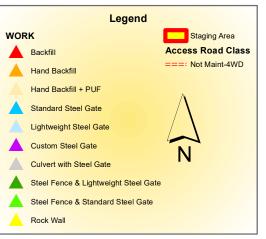




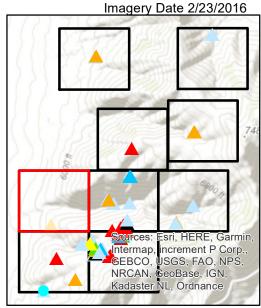
sri, HERE, Garmin, intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance NEW MEXICO ABANDONED MINE LAND PROGRAM MINING AND MINERALS DIVISION ENERGY, MINERALS & NAT. RESOURCES DEPT. SANTA FE, NEW MEXICO PROJECT NO. EMNRD-MMD-2020-01

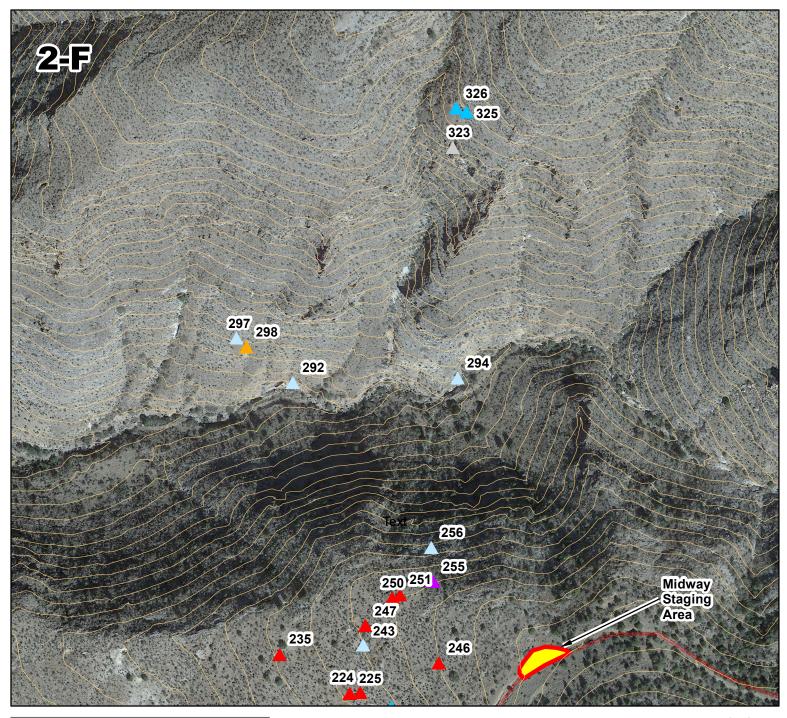
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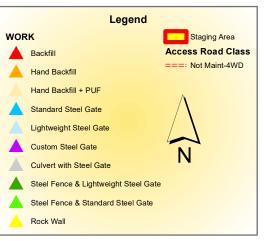








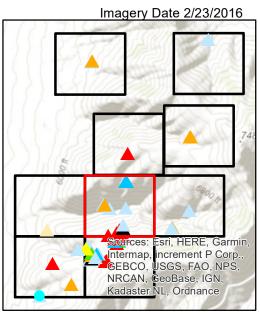


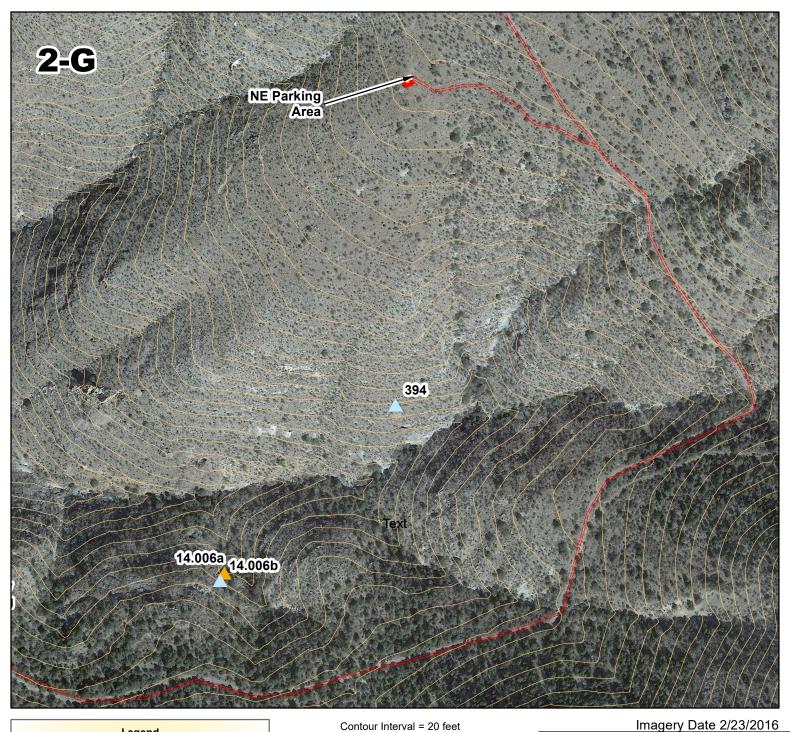


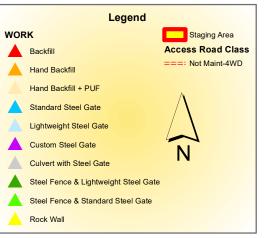
320

160

Countour Interval = 20 feet
Cookes Peak
West Phase IIIB
FIGURE
2-F



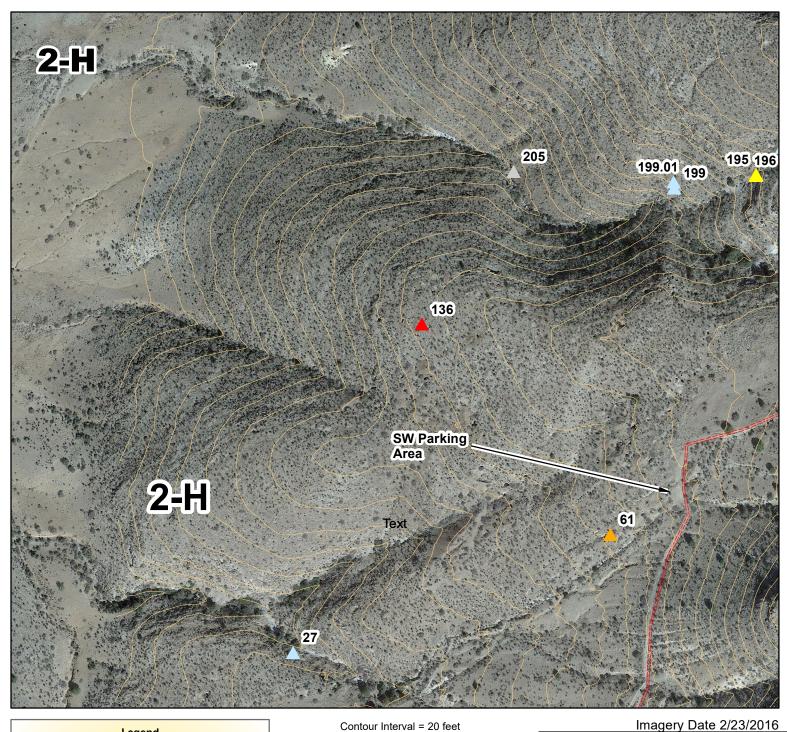


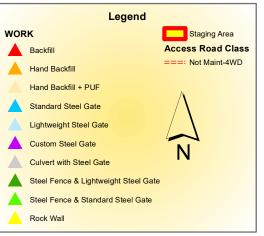




Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance

Feet 0 40 80 160 240 320 400 0 40 80 160 Meters 160

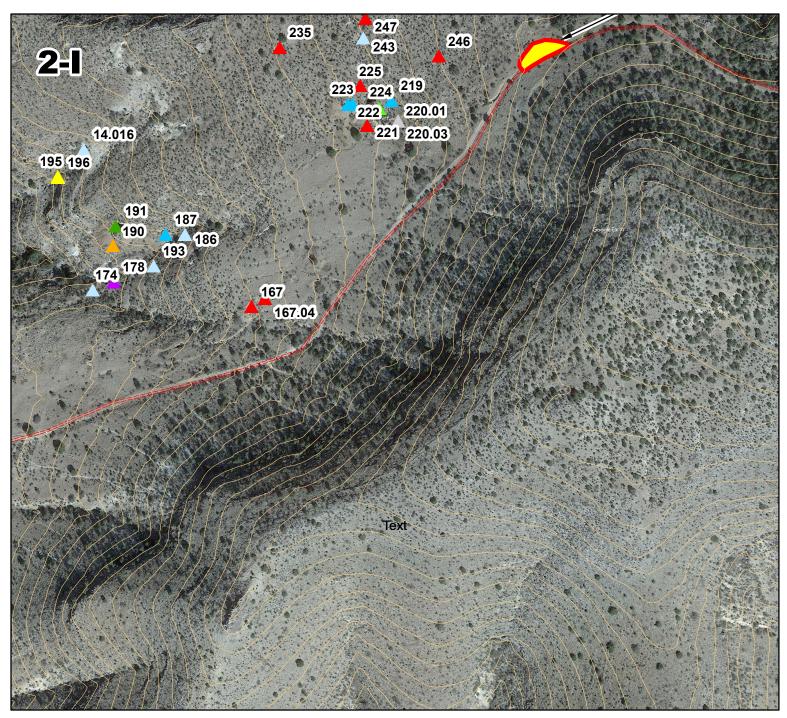


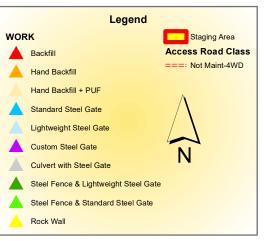




sri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance NEW MEXICO ABANDONED MINE LAND PROGRAM MINING AND MINERALS DIVISION ENERGY, MINERALS & NAT. RESOURCES DEPT. SANTA FE, NEW MEXICO PROJECT NO. EMNRD-MMD-2020-01

320 400

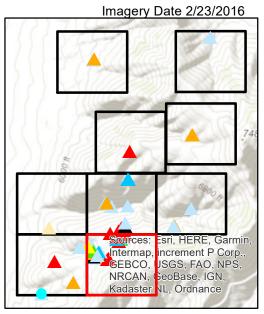


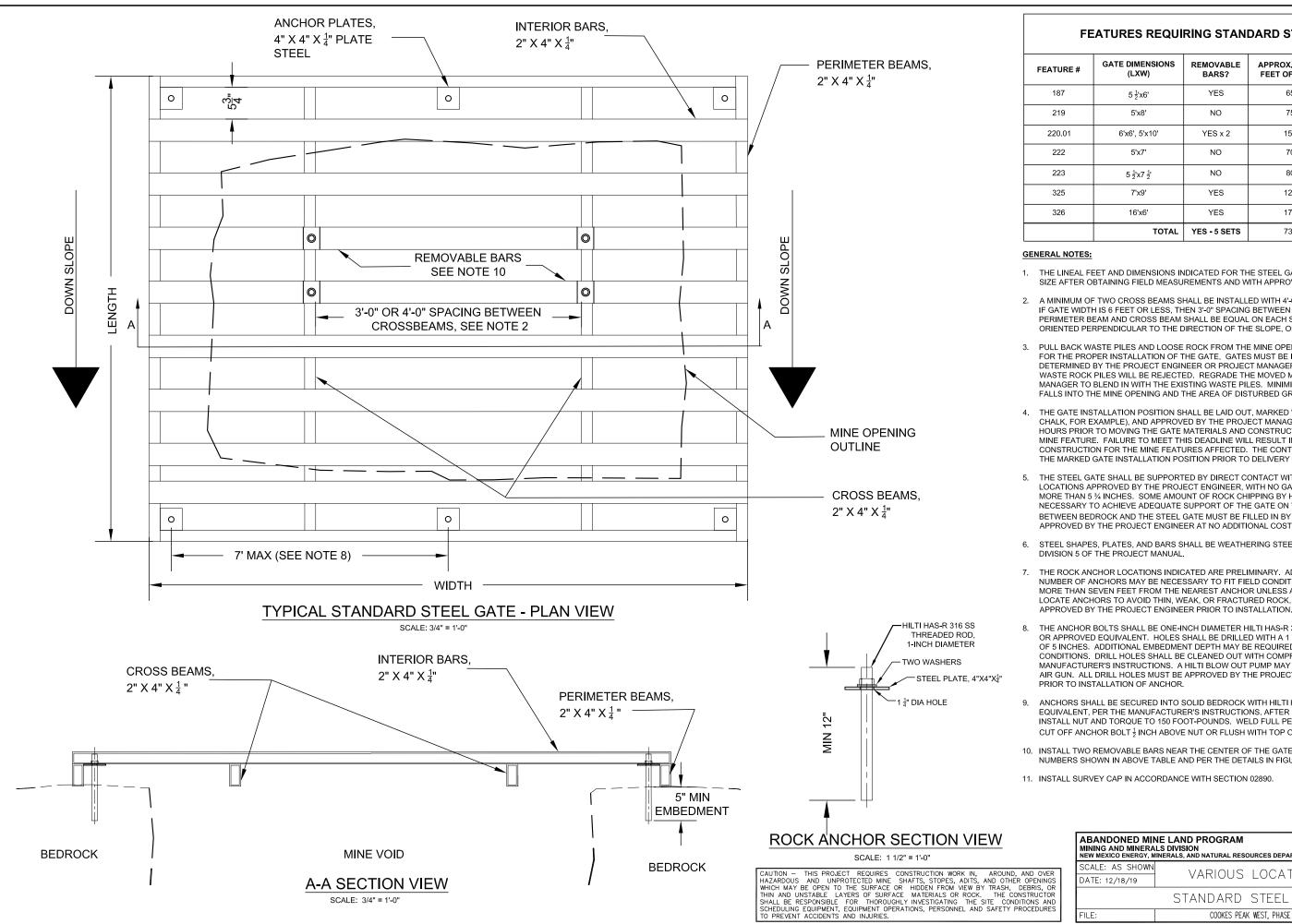


320 400

160





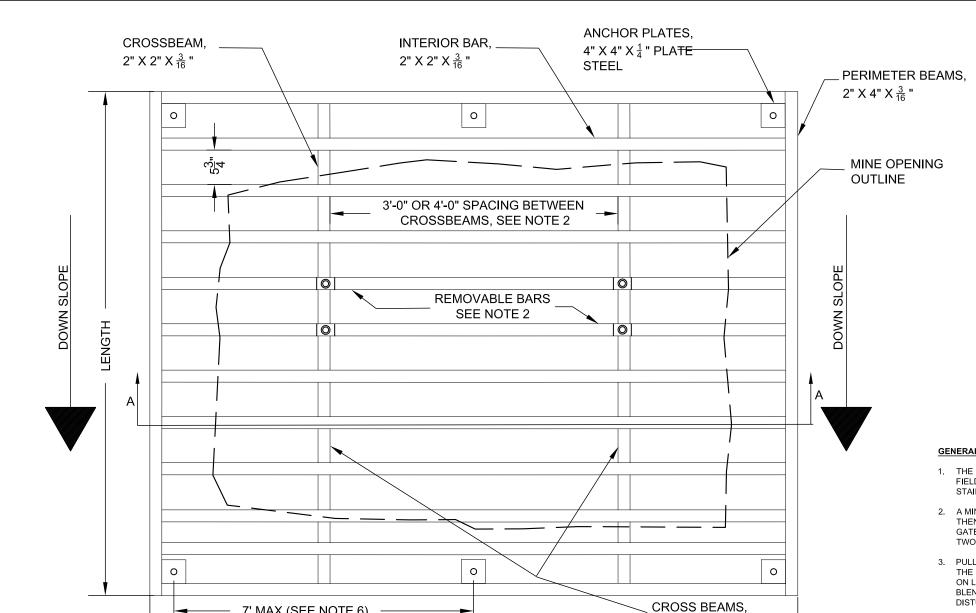


FEATURES REQUIRING STANDARD STEEL GATES

FEATURE #	GATE DIMENSIONS (LXW)	REMOVABLE BARS?	APPROX, LINEAL FEET OF STEEL	MINIMUM # OF ANCHORS NEEDED
187	5 ½'x6'	YES	65	4
219	5'x8'	NO	75	6
220.01	6'x6', 5'x10'	YES x 2	155	6
222	5'x7'	NO	70	4
223	5 ½'x7 ½'	NO	80	4
325	7'x9'	YES	120	6
326	16'x6'	YES	170	8
	TOTAL	YES - 5 SETS	735	38

- THE LINEAL FEET AND DIMENSIONS INDICATED FOR THE STEEL GATES ARE APPROXIMATE. ADJUST THE SIZE AFTER OBTAINING FIELD MEASUREMENTS AND WITH APPROVAL OF PROJECT ENGINEER.
- A MINIMUM OF TWO CROSS BEAMS SHALL BE INSTALLED WITH 4'-0" SPACING BETWEEN CROSS BEAMS, OR IF GATE WIDTH IS 6 FEET OR LESS, THEN 3'-0" SPACING BETWEEN CROSS BEAMS. SPACING BETWEEN PERIMETER BEAM AND CROSS BEAM SHALL BE EQUAL ON EACH SIDE OF GATE. INTERIOR BARS SHALL BE ORIENTED PERPENDICULAR TO THE DIRECTION OF THE SLOPE. OR ACROSS THE WIDTH OF THE GATE.
- 3. PULL BACK WASTE PILES AND LOOSE ROCK FROM THE MINE OPENING PERIMETER AS NEEDED TO ALLOW FOR THE PROPER INSTALLATION OF THE GATE. GATES MUST BE INSTALLED ON SOLID ROCK AS DETERMINED BY THE PROJECT ENGINEER OR PROJECT MANAGER. INSTALLATION ON LOOSE ROCK OR WASTE ROCK PILES WILL BE REJECTED. REGRADE THE MOVED MATERIAL AS DIRECTED BY THE PROJECT MANAGER TO BLEND IN WITH THE EXISTING WASTE PILES. MINIMIZE THE AMOUNT OF MATERIAL THAT FALLS INTO THE MINE OPENING AND THE AREA OF DISTURBED GROUND AROUND THE MINE FEATURE
- 4. THE GATE INSTALLATION POSITION SHALL BE LAID OUT, MARKED WITH TEMPORARY MARKINGS (MARKING CHALK, FOR EXAMPLE), AND APPROVED BY THE PROJECT MANAGER OR PROJECT ENGINEER AT LEAST 24 HOURS PRIOR TO MOVING THE GATE MATERIALS AND CONSTRUCTION EQUIPMENT TO THE SITE OF THE MINE FEATURE. FAILURE TO MEET THIS DEADLINE WILL RESULT IN A REQUIRED RESCHEDULING OF GATE CONSTRUCTION FOR THE MINE FEATURES AFFECTED. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS OF THE MARKED GATE INSTALLATION POSITION PRIOR TO DELIVERY OF THE GATE.
- 5. THE STEEL GATE SHALL BE SUPPORTED BY DIRECT CONTACT WITH BEDROCK AND THE SUPPORT LOCATIONS APPROVED BY THE PROJECT ENGINEER. WITH NO GAPS BENEATH THE STEEL STRUCTURE OF MORE THAN 5 1/4 INCHES. SOME AMOUNT OF ROCK CHIPPING BY HAND OR POWER EQUIPMENT MAY BE NECESSARY TO ACHIEVE ADEQUATE SUPPORT OF THE GATE ON THE BEDROCK. ANY EXCESSIVE GAPS BETWEEN BEDROCK AND THE STEEL GATE MUST BE FILLED IN BY CUSTOM FITTED PIECES (2"X4"X1") APPROVED BY THE PROJECT ENGINEER AT NO ADDITIONAL COST TO EMNRD.
- STEEL SHAPES, PLATES, AND BARS SHALL BE WEATHERING STEEL OR STAINLESS STEEL AS DESCRIBED IN
- THE ROCK ANCHOR LOCATIONS INDICATED ARE PRELIMINARY. ADJUSTMENTS TO LOCATIONS AND NUMBER OF ANCHORS MAY BE NECESSARY TO FIT FIELD CONDITIONS. ANCHORS SHALL BE SPACED NO. MORE THAN SEVEN FEET FROM THE NEAREST ANCHOR UNLESS APPROVED BY THE PROJECT ENGINEER. LOCATE ANCHORS TO AVOID THIN, WEAK, OR FRACTURED ROCK. ROCK ANCHOR LOCATIONS SHALL BE
- THE ANCHOR BOLTS SHALL BE ONE-INCH DIAMETER HILTI HAS-R 316 SS STAINLESS STEEL THREADED ROD OR APPROVED EQUIVALENT. HOLES SHALL BE DRILLED WITH A 1 1/8-INCH DRILL BIT TO A MINIMUM DEPTH OF 5 INCHES. ADDITIONAL EMBEDMENT DEPTH MAY BE REQUIRED DUE TO UNSATISFACTORY ROCK CONDITIONS. DRILL HOLES SHALL BE CLEANED OUT WITH COMPRESSED AIR AND BRUSH PER THE MANUFACTURER'S INSTRUCTIONS. A HILTI BLOW OUT PUMP MAY BE USED IN PLACE OF A COMPRESSED AIR GUN. ALL DRILL HOLES MUST BE APPROVED BY THE PROJECT MANAGER OR PROJECT ENGINEER
- ANCHORS SHALL BE SECURED INTO SOLID BEDROCK WITH HILTI HIT-RE 500 V3 ADHESIVE, OR APPROVED EQUIVALENT, PER THE MANUFACTURER'S INSTRUCTIONS. AFTER FULLY CURED, INSTALL TWO WASHERS, INSTALL NUT AND TORQUE TO 150 FOOT-POUNDS. WELD FULL PERIMETER OF NUT ONTO THREADED ROD. CUT OFF ANCHOR BOLT $\frac{1}{2}$ INCH ABOVE NUT OR FLUSH WITH TOP OF GATE.
- 10. INSTALL TWO REMOVABLE BARS NEAR THE CENTER OF THE GATE ON THE GATES AT THE FEATURE NUMBERS SHOWN IN ABOVE TABLE AND PER THE DETAILS IN FIGURE 8.
- 11. INSTALL SURVEY CAP IN ACCORDANCE WITH SECTION 02890.

MINING AND MINERA	NE LAND PROGRAM LS DIVISION INERALS, AND NATURAL RESOURCES DEPARTMENT	M
SCALE: AS SHOWN	VARIOUS LOCATIONS	DRAWN BY: SEN
DATE: 12/18/19	VAINOUS LOCATIONS	REVISED BY:
	STANDARD STEEL GATES	
FILE:	COOKES PEAK WEST, PHASE IIIB	FIGURE: 3



WIDTH

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

TYPICAL LIGHTWEIGHT STEEL GATE - PLAN VIEW

2" X2" X $\frac{3}{16}$ "

FE	ATURES REQUIR	ING LIGHTV	VEIGHT STEEL	GATES
FEATURE #	GATE DIMENSIONS (LXW)	REMOVABLE BARS?	APPROX. LINEAL FEET OF STEEL	APPROX. NO. OF ANCHORS NEEDED
1HW	2'x2', 14'x8', 12'x13'	NO	510	20
1LC	9' x 7'	YES	135	6
14.006b	4'x4'	NO	40	4
14.016	12'x18'	NO	430	10
27	5'x8'	NO	90	6
174	10'x6 ½'	NO	130	6
186	5 ½ 'x8 ½ '	NO	95	6
191	8'x10'	YES	165	8
193	6'x11 ½'	NO	140	6
199	10'x8 ½'	NO	165	8
199.01	6'x6'	NO	80	4
243	11 ½'x4'	NO	95	6
256	6'x4'	NO	55	4
292	5 ½'x10', 8'x9'	YES (1 GATE)	270	14
294	5'x7'	YES	80	4
297	6'x10'	YES	125	6
394	9'x5'	NO	105	6
	TOTAL	YES - 5 SETS	2,710	124

GENERAL NOTES:

- 1. THE LINEAL FEET AND DIMENSIONS INDICATED FOR THE STEEL GATES ARE APPROXIMATE. IF NEEDED ADJUST THE SIZE AFTER OBTAINING FIELD MEASUREMENTS AND WITH APPROVAL OF PROJECT ENGINEER. STEEL SHAPES, PLATES, AND BARS SHALL BE WEATHERING STEEL OR
- 2. A MINIMUM OF TWO CROSS BEAMS SHALL BE INSTALLED WITH 4'-0" SPACING BETWEEN CROSS BEAMS, OR IF GATE WIDTH IS 6 FEET OR LESS, THEN 3'-0" SPACING BETWEEN CROSS BEAMS. SPACING BETWEEN PERIMETER BEAM AND CROSS BEAM SHALL BE EQUAL ON EACH SIDE OF GATE, INTERIOR BARS SHALL BE ORIENTED PERPENDICULAR TO THE DIRECTION OF THE SLOPE, OR ACROSS THE WIDTH OF THE GATE, INSTALL TWO REMOVABLE BARS NEAR THE CENTER OF THE GATE FOR THE FEATURE #S SHOWN IN ABOVE TABLE AND PER THE DETAILS IN FIGURE 8.
- 3. PULL BACK WASTE PILES AND LOOSE ROCK FROM THE MINE OPENING PERIMETER AS NEEDED TO ALLOW FOR THE PROPER INSTALLATION OF THE GATE. GATES MUST BE INSTALLED ON SOLID ROCK AS DETERMINED BY THE PROJECT ENGINEER OR PROJECT MANAGER. INSTALLATION ON LOOSE ROCK OR WASTE ROCK PILES WILL BE REJECTED. RE-GRADE THE MOVED MATERIAL AS DIRECTED BY THE PROJECT MANAGER TO BLEND IN WITH THE EXISTING WASTE PILES. MINIMIZE THE AMOUNT OF MATERIAL THAT FALLS INTO THE MINE OPENING AND THE AREA OF DISTURBED GROUND AROUND THE MINE FEATURE.
- 4. THE GATE INSTALLATION POSITION SHALL BE LAID OUT, MARKED WITH TEMPORARY MARKINGS (IE MARKING CHALK) AND APPROVED BY THE PROJECT MANAGER OR PROJECT ENGINEER AT LEAST 24 HOURS PRIOR TO MOVING THE GATE TO THE SITE OF THE MINE FEATURE. FAILURE TO MEET THIS DEADLINE WILL RESULT IN A REQUIRED RESCHEDULING OF HELICOPTER DELIVERIES FOR THE MINE FEATURES AFFECTED. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS OF THE MARKED GATE INSTALLATION POSITION PRIOR TO DELIVERY OF THE GATE.
- 5. THE STEEL GATE SHALL BE SUPPORTED BY DIRECT CONTACT WITH BEDROCK AND THE SUPPORT LOCATIONS APPROVED BY THE PROJECT ENGINEER, WITH NO GAPS BENEATH THE STEEL STRUCTURE OF MORE THAN 5 % INCHES. SOME AMOUNT OF ROCK CHIPPING BY HAND OR POWER EQUIPMENT MAY BE NECESSARY TO ACHIEVE ADEQUATE SUPPORT OF THE GATE ON THE BEDROCK. ANY EXCESSIVE GAPS BETWEEN BEDROCK AND THE STEEL GATE MUST BE FILLED IN BY CUSTOM FITTED PIECES (2"X2" X_{15}^{**} ") APPROVED BY THE PROJECT ENGINEER AT NO ADDITIONAL COST TO EMNRD.
- THE ROCK ANCHOR LOCATIONS INDICATED ARE FOR EXAMPLE PURPOSES. ADJUSTMENTS TO LOCATIONS AND NUMBER OF ANCHORS MAY BE NECESSARY TO FIT FIELD CONDITIONS. ANCHORS SHALL BE SPACED NO MORE THAN SEVEN FEET FROM THE NEAREST ANCHOR UNLESS APPROVED BY THE PROJECT ENGINEER. LOCATE ALL ANCHORS IN SOLID ROCK FOR THE FULL EMBEDMENT DEPTH, AND AVOID THIN, WEAK, OR FRACTURED ROCK. ROCK ANCHOR LOCATIONS SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO INSTALLATION.
- THE ANCHOR BOLTS SHALL BE ONE-INCH DIAMETER HILTI HAS-R 316 SS STAINLESS STEEL THREADED ROD. OR APPROVED EQUIVALENT, HOLES SHALL BE DRILLED WITH A 1 1/8-INCH DRILL BIT TO A MINIMUM DEPTH OF 5 INCHES. ADDITIONAL EMBEDMENT DEPTH MAY BE REQUIRED DUE TO UNSATISFACTORY ROCK CONDITIONS AS DETERMINED BY THE PROJECT MANAGER. DRILL HOLES SHALL BE CLEANED OUT WITH COMPRESSED AIR AND BRUSH PER THE MANUFACTURER'S INSTRUCTIONS. A HILTI BLOW OUT PUMP MAY BE USED IN PLACE OF A COMPRESSED AIR GUN. ALL DRILL HOLES MUST BE APPROVED BY THE PROJECT MANAGER OR PROJECT ENGINEER PRIOR TO INSTALLATION OF ANCHOR, ANCHORS SHALL BE SECURED INTO THE ROCK WITH HILTI HIT-RE 500 V3 ADHESIVE, OR APPROVED EQUIVALENT, PER THE MANUFACTURER'S INSTRUCTIONS. AFTER FULLY CURED, INSTALL TWO WASHERS, INSTALL NUT AND TORQUE TO 150 FOOT-POUNDS. WELD FULL PERIMETER OF NUT ONTO THREADED ROD. CUT OFF ANCHOR BOLT NO MORE THAN ½ INCH ABOVE NUT.
- 8. INSTALL SURVEY CAP IN ACCORDANCE WITH SECTION 02890.

CROSSBEAMS, 2" X 2" X $\frac{3}{16}$ "		PERIMETER BEAMS, 2" X 4" X $\frac{3}{16}$ "
	GROUND SURFACE	5" MINIMUM EMBEDMENT
BEDROCK	MINE VOID	BEDROCK
	A-A SECTION VIEW SCALE: 3/4" = 1'-0"	

7' MAX (SEE NOTE 6)

CAUTION — THIS PROJECT REQUIRES CONSTRUCTION WORK IN, AROUND, AND OVER HAZARDOUS AND UNPROTECTED MINE SHAFTS, STOPES, ADITS, AND OTHER OPENINGS WHICH MAY BE OPEN TO THE SURFACE OR HIDDEN FROM VIEW BY TRASH, DERIS, OR THIN AND UNSTABLE LAYERS OF SURFACE MATERIALS OR ROCK. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR THOROUGHLY INVESTIGATING THE SITE CONDITIONS AND SCHEDULING EQUIPMENT, EQUIPMENT OPERATIONS, PERSONNEL AND SAFETY PROCEDURES

HILTI HAS-R 316 SS

TWO WASHERS

1 ¼" DIA HOLE

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

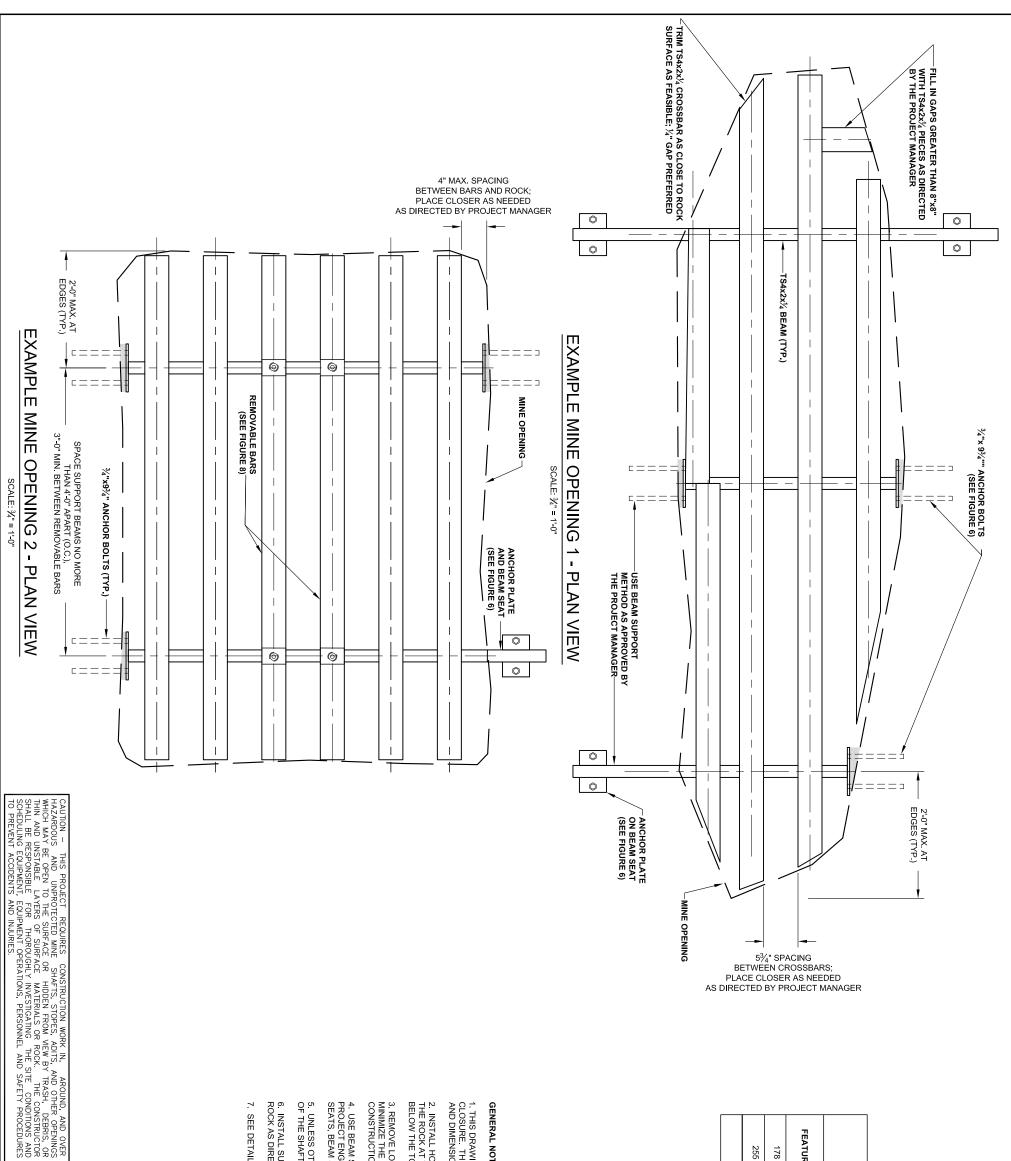
Z Z

THREADED ROD,

STEEL PLATE.

4"X4"X¹₄"

MINING AND MINERA	NE LAND PROGRAM LS DIVISION INERALS, AND NATURAL RESOURCES DEPARTMENT	
SCALE: AS SHOWN	VARIOUS LOCATIONS	DRAWN BY: SEN
DATE: 11/18/19	VARIOUS LOCATIONS	REVISED BY:
	LIGHTWEIGHT STEEL GATES	
FILE:	COOKES PEAK WEST, PHASE IIIB	FIGURE: 4



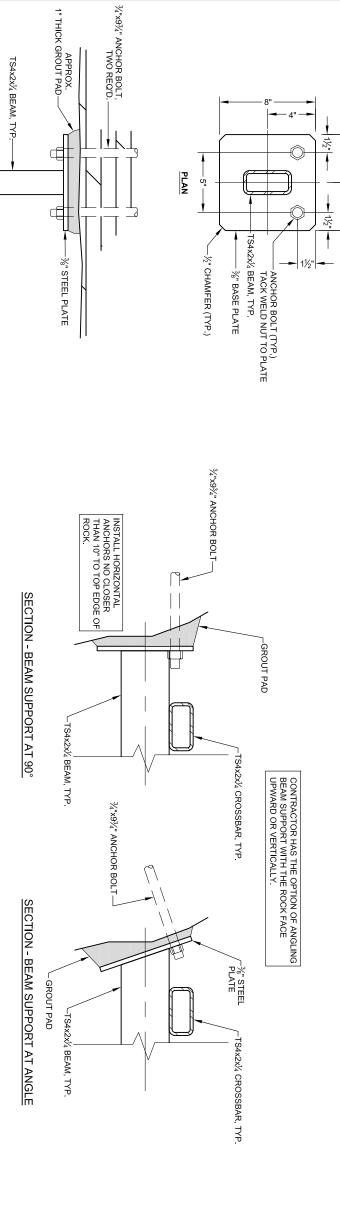
FEATURES REQUIRING CUSTOM STEEL GATES

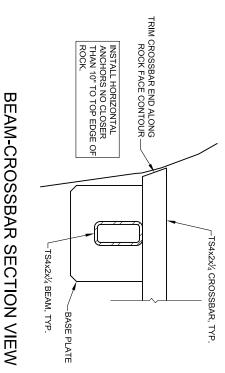
	255	178	FEATURE #	
TOTAL	7'x3 ½'	12'x8'	GATE DIMENSIONS (LXW)	
1-YES	NO	YES	REMOVABLE BARS?	
300	50	250	APPROX. LINEAL FEET OF STEEL	
10	4	6	MINIMUM # OF SUPPORTS/SEATS NEEDED	

GENERAL NOTES:

- 1. THIS DRAWING SHOWS TWO EXAMPLE MINE OPENINGS AND THE CORRESPONDING LAYOUTS OF THE STEEL CLOSURE. THE DRAWING SHALL BE USED AS A GUIDE FOR FIELD LAYOUT. DETERMINE THE ACTUAL LAYOUTS AND DIMENSIONS OF THE CLOSURES IN THE FIELD PRIOR TO FABRICATION.
- INSTALL HORIZONTAL BAT GATES AS CLOSE TO THE TOP OF THE SHAFT OPENINGS AS POSSIBLE, WHERE THE ROCK AT THE GATE LOCATIONS IS FULLY COMPETENT AND THE ANCHORS ARE PLACED AT LEAST 10" BELOW THE TOP OF THE ROCK.
- 3. REMOVE LOOSE ROCK AT CLOSURES PRIOR TO FABRICATION AND FIELD ERECTION OF THE CLOSURES. MINIMIZE THE AMOUNT OF ROCK AND OTHER DEBRIS THAT FALL INTO THE MINE OPENINGS DURING CONSTRUCTION. PULL LOOSE MATERIAL UP AND AWAY FROM THE MINE AREA.
- 4. USE BEAM SUPPORTS OR BEAM SEATS, AT CONTRACTOR'S DISCRETION AND APPROVAL FROM THE PROJECT ENGINEER, TO FASTEN BEAM ENDS TO COMPETENT ROCK. SEE FIGURE 6 FOR DETAILS ON BEAM SEATS, BEAM SUPPORTS, AND ANCHOR BOLTS.
- 5. UNLESS OTHERWISE, OF THE SHAFT OPENING ACCEPTED BY THE PROJECT ENGINEER, PLACE TS BEAMS ACROSS THE SPAN (WIDTH)
- 6. INSTALL SURVEY MARKER (SUPPLIED BY AML PROGRAM) INTO CONCRETE OR ADJACENT COMPETENT ROCK AS DIRECTED BY THE PROJECT MANAGER.
- 7. SEE DETAILS FOR REMOVABLE BARS ON FIGURE 8.

ABANDONED MINE LAND PROGRAM MINING AND MINERALS DIVISION NEW MEXICO ENERGY, MINERALS, AND NATURAL RE	ABANDONED MINE LAND PROGRAM MINING AND MINERALS DIVISION NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT	
SCALE: AS SHOWN	170 AND 355	DRAWN BY: MWI
DATE: 11/13/2019	TEXICAEU ING AND NOU	REVISED BY: SEN
	CUSTOM STEEL GATES	
FILE:	COOKES PEAK WEST, PHASE IIIB	FIGURE: 5





SCALE: ¾" = 1'-0"

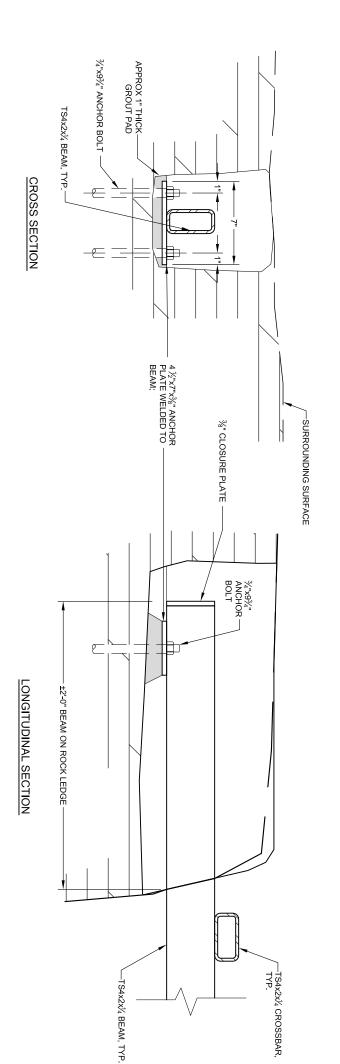
BEAM SUPPORT SIDE SECTION

SCALE: ½" = 1'-0"

BEAM SUPPORT DETAIL

ELEVATION

SCALE: 1½" = 1'-0"



BEAM SEAT DETAILS

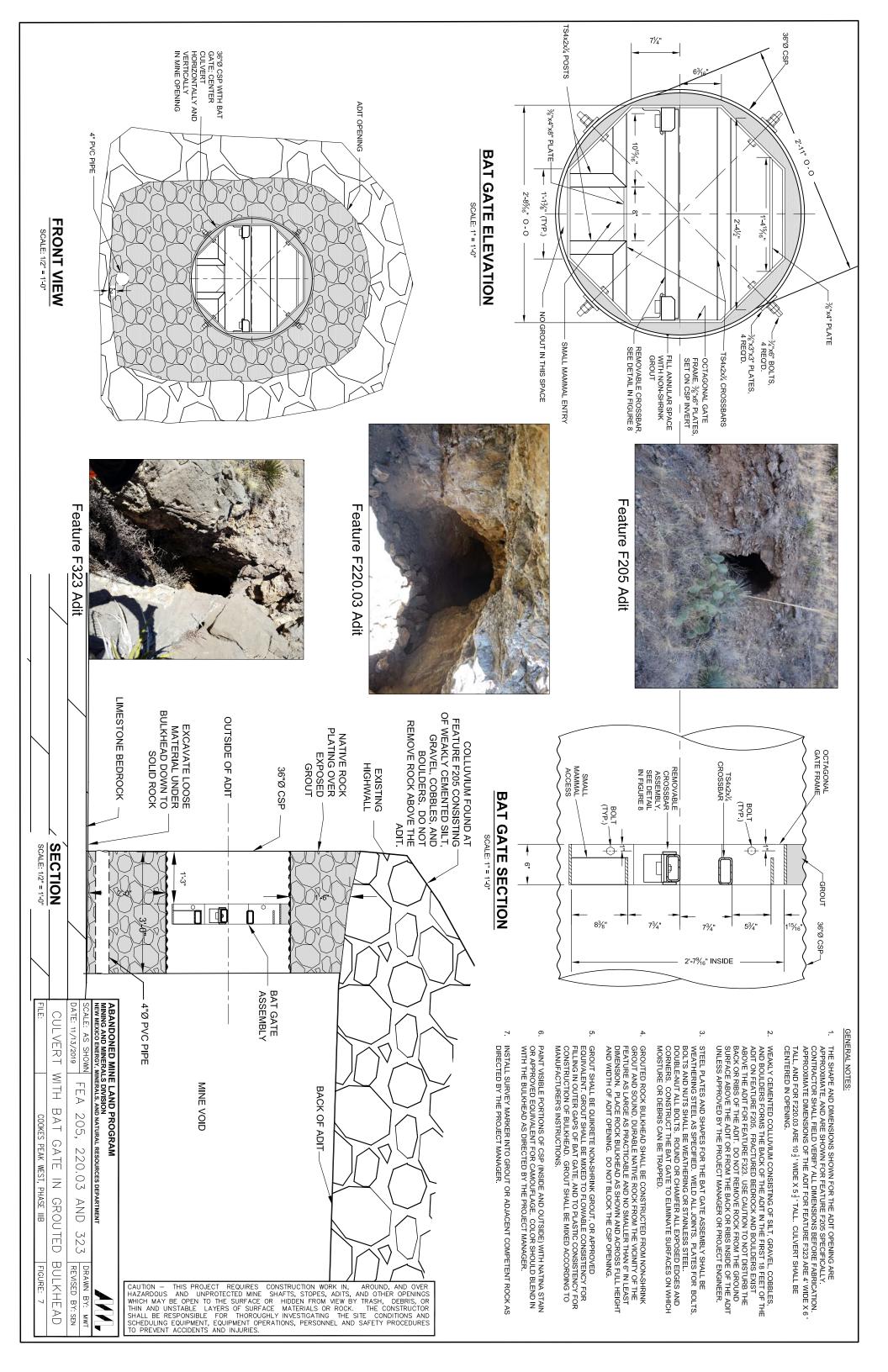
SCALE: ½" = 1'-0"

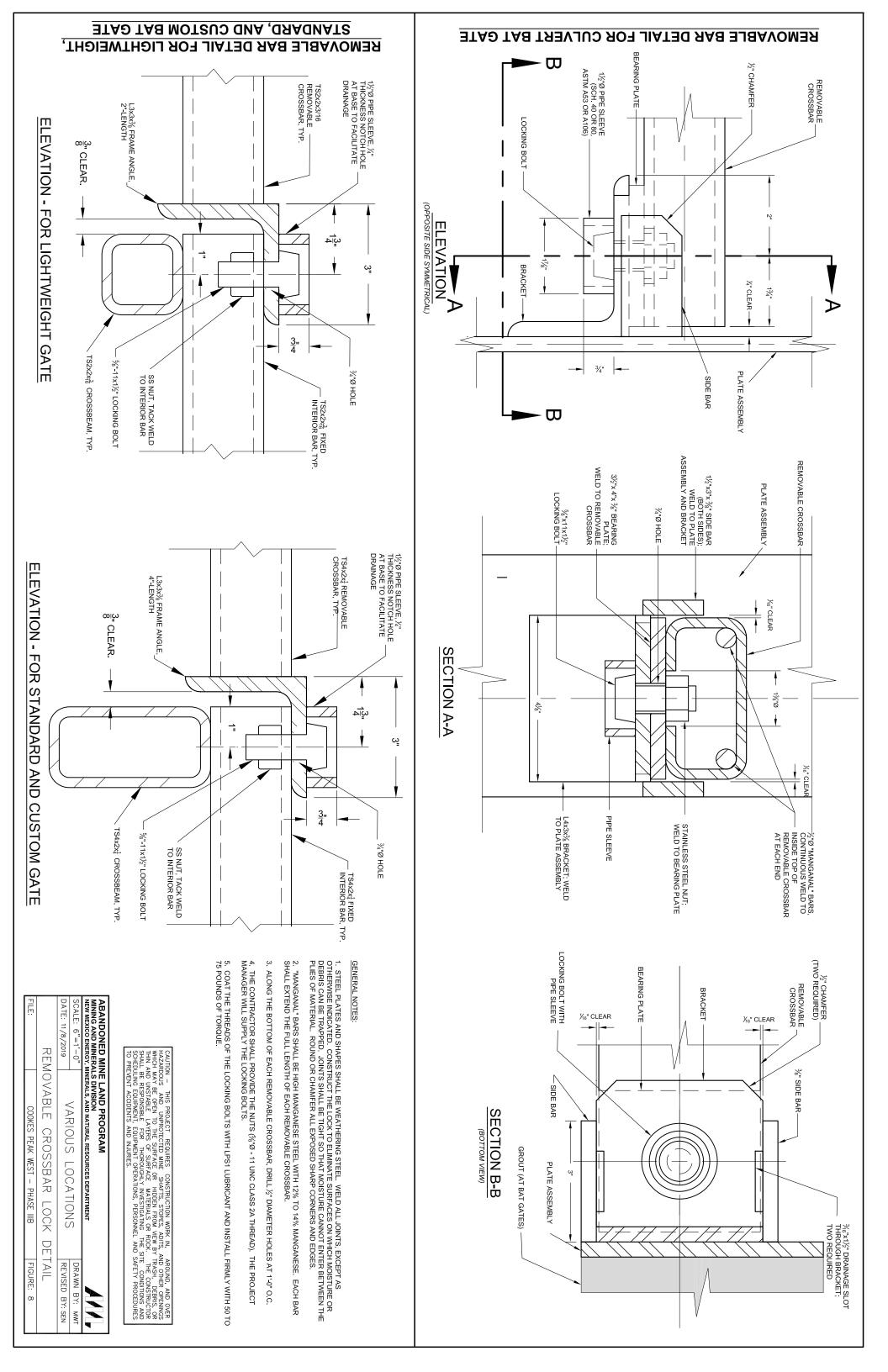
CAUTION — THIS PROJECT REQUIRES CONSTRUCTION WORK IN, AROUND, AND OVER HAZARDOUS AND UNPROTECTED MINE SHAFTS, STOPES, ADITS, AND OTHER OPENINGS WHICH MAY BE OPEN TO THE SURFACE OR HIDDEN FROM VIEW BY TRASH, DEBRIS, OR THIN AND UNSTABLE LAYERS OF SURFACE MATERIALS OR ROCK. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR THOROUGHLY INVESTIGATING THE SITE CONDITIONS AND SCHEDULING EQUIPMENT, EQUIPMENT OPERATIONS, PERSONNEL AND SAFETY PROCEDURES TO PREVENT ACCIDENTS AND INJURIES.

GENERAL NOTES:

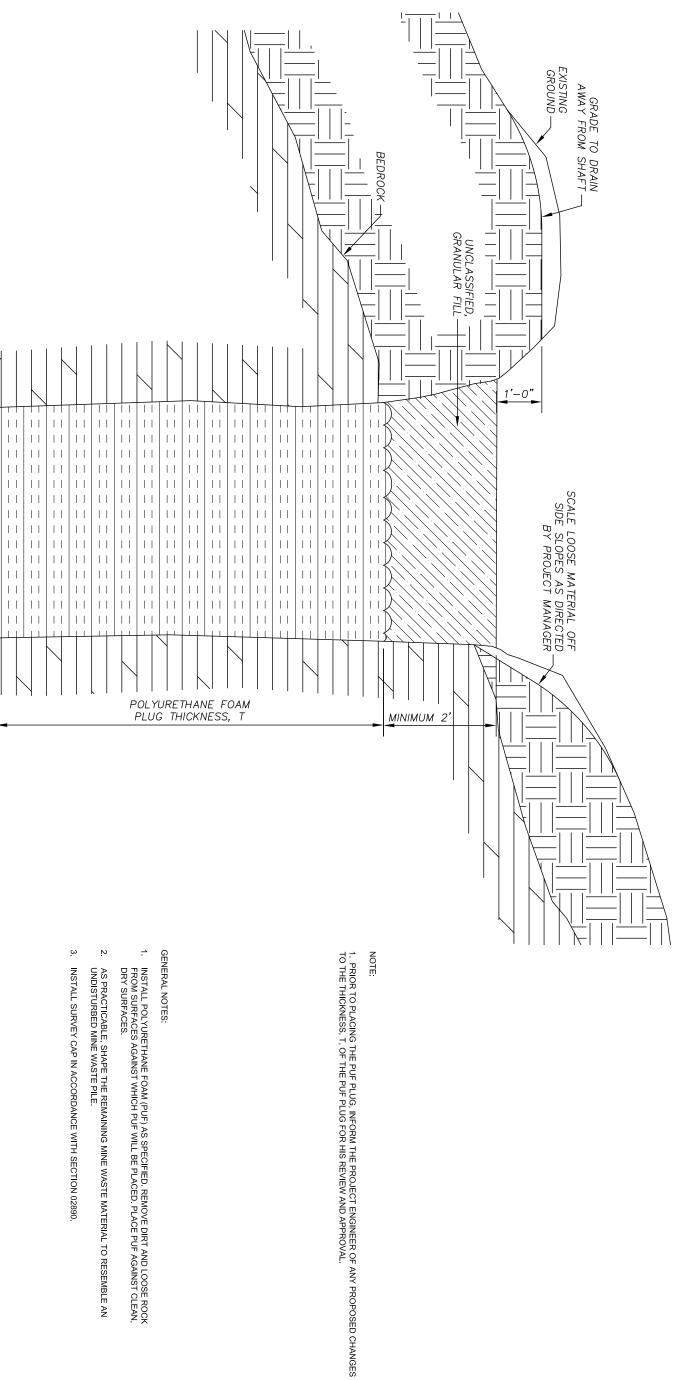
- POSITION CLOSURE AT THE TOP OF THE SHAFT AT A STABLE LOCATION AS DIRECTED BY THE PROJECT MANAGER. IF THERE IS POTENTIAL FOR ROCK ACCUMULATION FROM ABOVE, STRUCTURE SHOULD BE ANGLED DOWNHILL IF POSSIBLE TO ALLOW THE ROCKS TO SLIDE OFF.
- MINIMIZE THE AMOUNT OF ROCK AND OTHER DEBRIS THAT FALL INTO THE MINE OPENINGS DURING CONSTRUCTION. PULL LOOSE MATERIAL UP AND AWAY FROM THE MINE AREA.
- 3. USE BEAM SUPPORTS OR BEAM SEATS, AT CONTRACTOR'S OPTION WITH CONCURRENCE FROM THE PROJECT ENGINEER, TO FASTEN BEAM ENDS TO COMPETENT ROCK. WELD CLOSURE PLATES ONTO ENDS OF CROSS BEAMS INSTALLED ON BEAM SEATS.
- 4. IF USING A BEAM SUPPORT, THE BEAM END SHALL BE CUT SO THAT THE FULL CROSS SECTION OF THE BEAM IS WELDED TO THE SUPPORT PLATE. IF USING A BEAM SEAT, THE BEAM SHALL BE WELDED FLUSH TO THE BEAM.
- STEEL SHAPES, PLATES AND BARS SHALL BE WEATHER OR STAINLESS STEEL.
- 6. PUT ¾" CHAMFER ON ANY CONCRETE EDGES.
- 7. THE ANCHOR BOLT SYSTEM SHALL BE 9 $\frac{9}{2}$ " X $\frac{3}{4}$ " STAINLESS STEEL HILTI HIT-Z-R 316SS ANCHOR BOLTS WITH HILTI HIT-HY 200 EPOXY ADHESIVE, OR APPROVED EQUIVALENT. HOLES SHALL BE DRILLED WITH A $\frac{7}{6}$ " BIT. ANCHORS SHALL BE INSTALLED WITH A MINIMUM EMBEDMENT OF 6 $\frac{3}{4}$ INCHES. TORQUE NUTS TO 110 FT-LB. FOLLOW MANUFACTURER'S RECOMMENDATIONS REGARDING INSTALLATION.
- 8. DO NOT FILL BEAMS WITH CONCRETE OR GROUT.
- 9. INSTALL SURVEY MARKER (SUPPLIED BY AML PROGRAM) INTO ADJACENT COMPETENT ROCK AS DIRECTED BY THE PROJECT MANAGER.

SCALE: AS SHOWN PENINGS RIS, ONE RIS, OR RIS, OR STEEL GATE DETAILS RESURCES RESURCES REPARCIMENT SCALE: 11/13/19 FEATURES 178 AND 255 CUSTOM STEEL GATE DETAILS COOKES PEAK WEST, PHASE IIIB		ABANDONED MINE LAND F	ABANDONED MINE LAND PROGRAM MINING AND MINERALS DIVISION	
DATE: 11/13/19 FILE:		50 A T. AS S DWA		DBAWN BY: WIT
DATE: 11/13/19 FILE:	OVER	SCALE: AS SHOWN		
FILE:	ENINGS	DATE: 11/13/19	- FAIONEG -/O AND 800	
FILE:	CTOR		NISTOM STEEL CATE DETAILS	//
FILE:	NS AND			L
	EDURES	FILE:	COOKES PEAK WEST, PHASE IIIB	







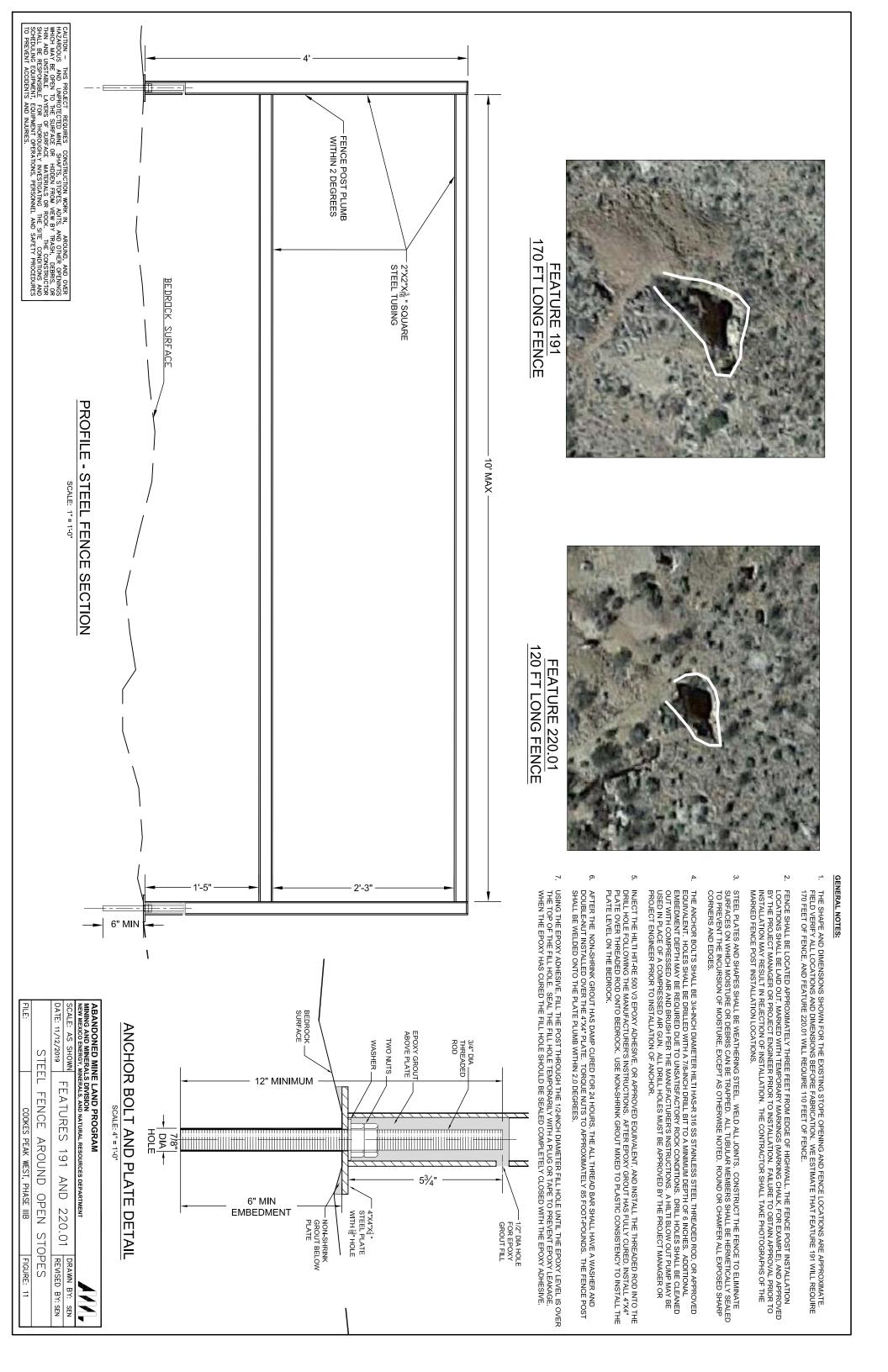


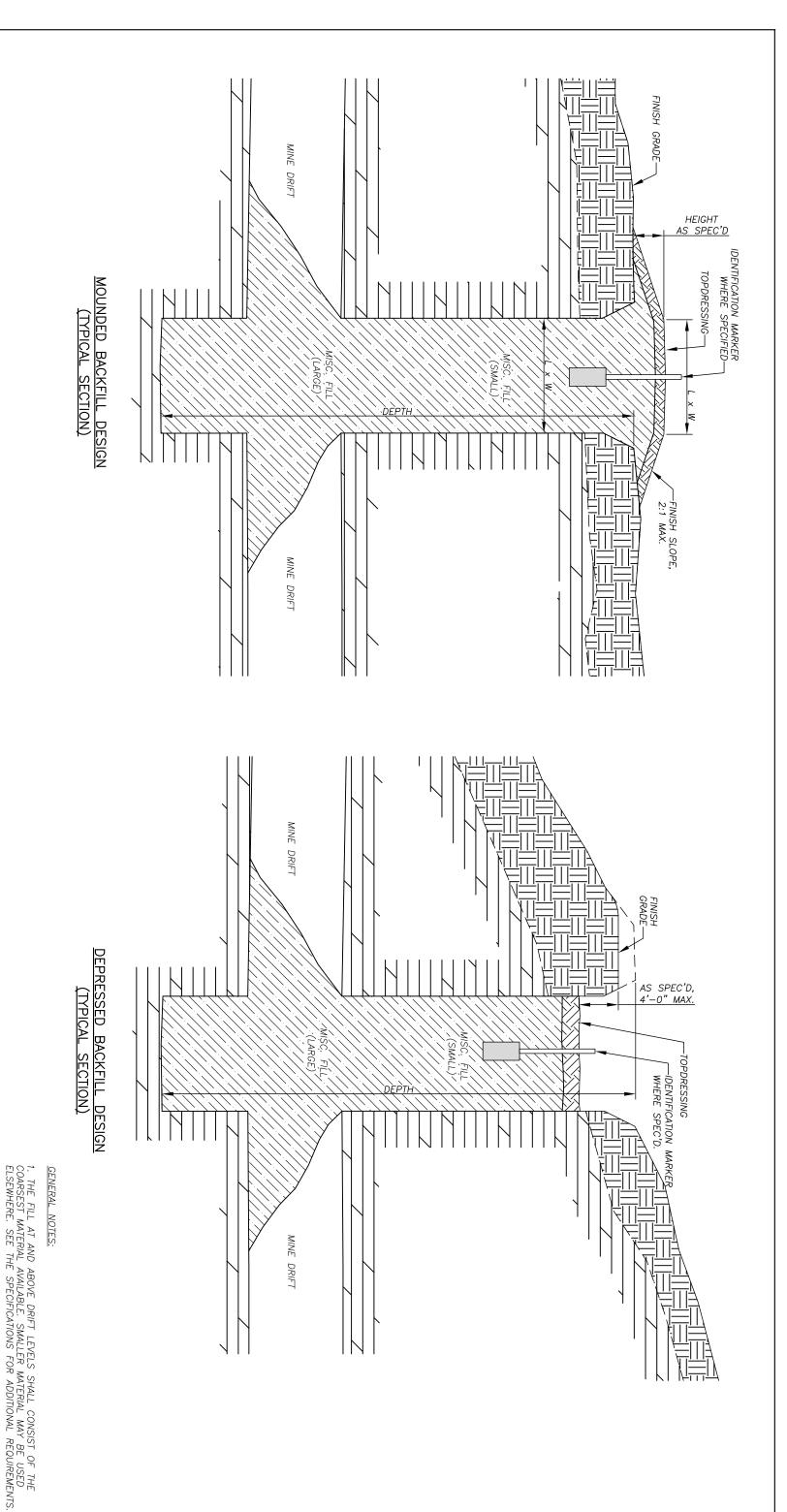
TYPICAL SECTION

- INSTALL POLYURETHANE FOAM (PUF) AS SPECIFIED. REMOVE DIRT AND LOOSE ROCK FROM SURFACES AGAINST WHICH PUF WILL BE PLACED. PLACE PUF AGAINST CLEAN, DRY SURFACES.
- AS PRACTICABLE, SHAPE THE REMAINING MINE WASTE MATERIAL TO RESEMBLE AN UNDISTURBED MINE WASTE PILE.
- INSTALL SURVEY CAP IN ACCORDANCE WITH SECTION 02890.

CAUTION — THIS PROJECT REQUIRES CONSTRUCTION WORK IN, AROUND, AND OVER HAZARDOUS AND UNPROTIECTED MINE SHAFTS, STOPES, ADITS, AND OTHER OPENINGS WHICH MAY BE OPEN TO THE SUFFACE OR HIDDEN FROM VIEW BY TRASH, DEBRIS, OF THIN AND UNSTABLE LAYERS OF SURFACE MATERIALS OR ROCK. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR THOROUGHLY INVESTIGATING THE SITE CONDITIONS AND SCHEDDLING EQUIPMENT, EQUIPMENT OPERATIONS, PERSONNEL AND SAFETY PROCEDURES TO PREVENT ACCIDENTS AND INJURIES.

_	ABANDONED MINE LAND PROGRAM	
	MINING AND MINERALS DIVISION NEW MEXICO ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT	\$ \$ \$
		DRAWN BY: MWT
	DATE: 11/8/2019 FEATURE 2/3	REVISED BY: SEN
	POLYURETHANE FOAM PLUG CLOSURE	JRE
_	FILE: COOKES PEAK WEST MINE SAFEGUARD PROJECT, PHASE IIIB FIGURE: 9	FIGURE: 9





CAUTION - THIS PROJECT REQUIRES CONSTRUCTION WORK IN, AROUND, AND OVER HAZARDOUS AND UNPROTECTED MINE SHAFTS, STOPES, ADITS, AND OTHER OPENINGS WHICH MAY BE OPEN TO THE SUPFACE OR HIDDEN FROM UNE BY TRASH. DEBRIS, OR THIN AND UNSTABLE LAYERS OF SURFACE MATERIALS OR ROCK. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR THOROUGHLY INVESTIGATING THE SITE CONDITIONS AND SCHEDULING FOULIPMENT, EQUIPMENT OPERATIONS, PERSONNEL AND SAFETY PROCEDURES TO PREVENT ACCIDENTS AND INJURIES.

ABANDONED MINE LAND PROGRAM MINING AND MINERALS DIVISION OPENINGS ERRIS, OR STRUCTOR TONS AND OCCURRES TILE: ABANDONED MINERALS AND MATURAL RESOURCES DEPARTMENT ORANGE STRUCTOR OATE: 11/8/19 SHAFT BACKFILL DESIGNS FILE: COOKES PEAK WEST, PHASE IIIB FIGURE: 10

3. THE LENGTH AND WIDTH OF THE TOP OF THE MOUND SHALL BE EQUAL TO OR GREATER THAN THE INTERNAL SHAFT LENGTH AND WIDTH RESPECTIVELY.

2. AS PRACTICABLE, SHAPE THE REMAINING MINE WASTE MATERIAL TO RESEMBLE AN UNDISTURBED MINE WASTE PILE.