

Path: \\golder-gds-computer\data\office\Denver\cadd\TAN\MCL\CLIMAX\09\_PROJECTS\1912808400-1A-C-101.dwg | File Name: 1912808400-1A-C-101.dwg | Last Edited By: mrosenthal | Date: 2022-04-12 | Time: 11:41:24 AM | Printed By: Nrosenthal | Date: 2022-04-12 | Time: 12:16:20 PM

- GENERAL NOTE(S)**
- EXISTING GROUND TOPOGRAPHY IS FROM A 2016 AERIAL FLYOVER SURVEY, AS PROVIDED BY CLIMAX.
  - THE COORDINATE SYSTEM USED IN THE DRAWINGS IS THE LOCAL CLIMAX MINE COORDINATE SYSTEM.
  - DIMENSIONS ARE IN UNITS OF FEET UNLESS OTHERWISE NOTED.
  - ALL HEALTH AND SAFETY REQUIREMENTS OF THE OWNER AND THE MINE SAFETY AND HEALTH ADMINISTRATION (MSHA) SHALL BE ADHERED TO DURING EXECUTION OF THE WORK. THE OWNER'S PROCEDURES SHALL BE USED FOR ALL EXCAVATIONS, HOT WORK, CONFINED SPACE ENTRY, LOCK OUT - TAG OUT - TRY OUT (LOTOTO), AND WORKING CLEARANCE. ALL CONTRACTOR AND SUBCONTRACTOR EMPLOYEES ASSIGNED TO THE WORK SHALL ATTEND THE OWNER'S CONTRACTOR SAFETY ORIENTATION.
  - THE SITE IS AN ACTIVE FACILITY. CONTRACTOR AND SUBCONTRACTOR EMPLOYEES SHALL BE AWARE OF ACTIVE EQUIPMENT IN THE VICINITY OF THE WORK AREA AND SHALL TAKE PRECAUTIONS NOT TO DISTURB ACTIVE EQUIPMENT.
  - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS PRIOR TO STARTING WORK AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE IF CONFLICTS EXIST ON OR BETWEEN THE DRAWINGS.
  - LOCATIONS AND DIMENSIONS OF EXISTING STRUCTURES ARE BASED ON DRAWINGS PROVIDED BY THE OWNER, OR BY OTHERS AS NOTED, AND SHOULD BE FIELD VERIFIED.
  - THE CONTRACTOR SHALL PERFORM HOUSEKEEPING ON A DAILY BASIS TO KEEP THE WORK AREA CLEAN. SITE RESTORATION SHALL BE PERFORMED AT THE COMPLETION OF THE WORK TO THE SATISFACTION OF THE OWNER.
  - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY EQUIPMENT AND PROVIDE ACCESS FOR THE OWNER AND THE OWNER'S REPRESENTATIVE TO INSPECT THE WORK. INSPECTION ACCESS IS REQUIRED THROUGHOUT THE DURATION OF THE PROJECT.
  - THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN OR DISTURB ANY AREA NOT SPECIFICALLY APPROVED BY THE OWNER'S REPRESENTATIVE.
  - IF DISCREPANCIES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS ARISE, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY.
  - ALL EQUIPMENT IS REQUIRED TO MAINTAIN AT LEAST 20 FEET OF CLEARANCE FROM ENERGIZED ELECTRICAL POWER LINES THAT ARE 350 KILOVOLTS OR LESS AND AT LEAST 50 FEET OF CLEARANCE IF THE POWER LINES ARE MORE THAN 350 KILOVOLTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE MSHA STANDARDS FOR EQUIPMENT OPERATION IN THE VICINITY OF ELECTRICAL EQUIPMENT.
  - THE CONTRACTOR IS REQUIRED TO PROVIDE PORTABLE SANITARY FACILITIES AT THE FIELD OFFICE(S) AND ADJACENT TO THE WORK AREAS.
  - QUANTITIES SHOWN ON THE DRAWINGS ARE NEAT-LINE ESTIMATES AND ARE PROVIDED FOR REFERENCE ONLY.
  - CONTROL OF FUGITIVE DUST GENERATED IN THE WORK AREA IS THE RESPONSIBILITY OF THE CONTRACTOR.
  - THE CONTRACTOR IS RESPONSIBLE FOR SURVEY CONTROL, CONSTRUCTION STAKING, AND NOTIFYING THE OWNER'S SURVEYOR WHEN WORK ITEMS ARE READY FOR AS-BUILT SURVEYING.
  - UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL LABOR, MATERIALS, QUALITY CONTROL, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK AS SHOWN.

**TRAFFIC CONTROL:**

- ALL TRAFFIC CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO SIGNS, ARROW PANELS, FLASHING BEACONS, AND CHANNELIZING DEVICES, SHALL BE FURNISHED, INSTALLED, MAINTAINED (INCLUDING WASHING), RELOCATED AS NECESSARY, AND REMOVED BY THE CONTRACTOR.
- ANY TRAFFIC CONTROL DEVICE THAT IS DAMAGED, WEATHERED, WORN, OR OTHERWISE DEEMED UNACCEPTABLE BY THE OWNER'S REPRESENTATIVE SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- CONTRACTOR VEHICLE PARKING AND PERSONAL VEHICLE PARKING SHALL BE WITHIN OWNER-DESIGNATED AREAS ONLY.
- THE FINAL LOCATIONS OF TRAFFIC CONTROL DEVICES ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE. FLASHING LIGHTS AND/OR FLAGS MAY BE REQUIRED BY THE OWNER'S REPRESENTATIVE TO CALL ATTENTION TO TRAFFIC CONTROL SIGNAGE.
- TRAFFIC CONTROL DEVICES SHALL COMPLY WITH COLORADO DEPARTMENT OF TRANSPORTATION STANDARDS UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE.

- GENERAL NOTE(S)**
- YARD PIPING:
- PIPING SHALL BE CONSTRUCTED PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL HAVE A LINE TOLERANCE OF ±0.2 FEET AND A GRADE TOLERANCE OF ±0.1 FEET. PIPING SHALL INCLUDE APPROPRIATE CAMBER TO LIMIT SAGS OR HUMPS FROM DEVELOPING IN THE PIPING AFTER PLACEMENT OF FILL MATERIALS. GRAVITY PIPING SHALL BE SLOPED AT A MINIMUM OF 0.25%, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
  - AN AS-BUILT SURVEY SHALL BE PERFORMED ON PIPING AS CONSTRUCTED. COORDINATES AND ELEVATIONS SHALL BE SURVEYED AT ALL PIPE BENDS AND AT MINIMUM 100-FOOT INTERVALS ALONG STRAIGHT PORTIONS OF PIPE. COORDINATES SHALL BE REPORTED IN THE LOCAL CLIMAX MINE COORDINATE SYSTEM. HORIZONTAL ACCURACY SHALL BE ±0.2 FEET. VERTICAL ACCURACY SHALL BE ±0.1 FEET. THE CONTRACTOR SHALL PROVIDE AN EXCEL SPREADSHEET CONTAINING SURVEY POINT NUMBER, NORTHING, EASTING, TOP OF PIPE ELEVATION, AND GROUND ELEVATION AFTER PIPE IS BURIED (IF APPLICABLE). SURVEY METHOD AND EQUIPMENT USED SHALL BE INDICATED WITH THE DELIVERABLE.
  - FOR PIPE TRENCH EXCAVATIONS, SLOPING OR SHORING SHALL BE UTILIZED IN ACCORDANCE WITH MSHA AND OSHA REQUIREMENTS.
  - TRACER WIRE SHALL BE INSTALLED ABOVE ALL NEW CONSTRUCTED UNDERGROUND PIPING. CAUTION TAPE SHALL BE INSTALLED ABOVE ALL NEW CONSTRUCTED UNDERGROUND PIPING AS SHOWN ON THE DRAWINGS.
  - ALL PARTS SHALL BE ACCURATELY ASSEMBLED AND ERECTED AS SHOWN ON THE DRAWINGS OR APPROVED SHOP DRAWINGS, OR AS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE, AND ALL MATCHMARKS OF THE FABRICATOR SHALL BE CAREFULLY FOLLOWED. MEMBERS SHALL NOT BE OVERSTRESSED DURING THE PROCESS OF ASSEMBLY, AND HAMMERING THAT WILL INJURE OR DISTORT THE MEMBERS WILL NOT BE PERMITTED. BEARING SURFACES AND SURFACES TO BE IN PERMANENT CONTACT SHALL BE CLEANED BEFORE THE MEMBERS ARE ASSEMBLED OR ERECTED.
  - THE CONTRACTOR SHALL PROVIDE REDLINE DRAWINGS IDENTIFYING KEY ELEMENTS OF THE PIPE ASSEMBLY THAT MAY DIFFER FROM THE DRAWINGS OR APPROVED SHOP DRAWINGS.

**CONSTRUCTION COORDINATION:**

- THE CONTRACTOR SHALL BE AWARE OF ACTIVITIES ASSOCIATED WITH OPERATION OF THE EXISTING METALS TREATMENT PLANT AND ADDITIONAL CONSTRUCTION PROJECTS IN THE VICINITY OF THE WORK AREA. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL WORK ACTIVITIES HAVING THE POTENTIAL TO AFFECT OR BE AFFECTED BY OPERATION OF THE EXISTING METALS TREATMENT PLANT AND/OR ADDITIONAL CONSTRUCTION PROJECTS.
- COORDINATION OF MATERIAL DELIVERY, STORAGE, AND STOCKPILING IS ANTICIPATED AND EXPECTED BETWEEN THE CONTRACTOR AND THE OWNER TO ENSURE THAT CONCURRENT WORK ACTIVITIES CAN BE COMPLETED WITHOUT SAFETY INCIDENT, PROJECT DELAYS, OR COST IMPLICATIONS.
- TIE-INS OF NEW PIPING TO EXISTING PIPING MAY REQUIRE TEMPORARY ALTERNATE ROUTING. THE CONTRACTOR SHALL PARTICIPATE AND ASSIST THE OWNER WITH PLANNING, SEQUENCING, AND COORDINATION OF TEMPORARY ALTERNATE ROUTING. THE CONTRACTOR SHALL PERFORM TIE-IN WORK IN A DILIGENT AND WORKMANLIKE MANNER, WITH APPROPRIATE RESOURCES TO COMPLETE THE TIE-INS WITHIN THE TIMEFRAMES SCHEDULED BY THE OWNER.

- GENERAL NOTE(S)**
- EROSION AND SEDIMENT CONTROL NOTES:
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MANAGE SEDIMENT AND PREVENT SEDIMENT FROM LEAVING THE SITE. THE CONTRACTOR SHALL PREPARE A SITE-SPECIFIC DRAINAGE AND EROSION/SEDIMENTATION PLAN FOR THE OWNER'S APPROVAL PRIOR TO MOBILIZATION. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE INTENDED AS MINIMUM REQUIREMENTS TO BE SUPPLEMENTED BY THE THE CONTRACTOR'S DRAINAGE AND EROSION/SEDIMENTATION PLAN.
  - ALL PERMANENT AND TEMPORARY EROSION CONTROL MEASURES ARE SUBJECT TO REVIEW FOR EFFECTIVENESS. NECESSARY ADJUSTMENTS SHALL BE MADE BY THE CONTRACTOR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
  - WETLANDS SHOWN ON THE DRAWINGS SHALL BE PROTECTED AND SPECIFICALLY ADDRESSED IN THE CONTRACTOR'S DRAINAGE AND EROSION/SEDIMENTATION PLAN.
  - TOPSOIL PLACEMENT, SEEDING, AND MULCHING SHALL NOT BE DONE IN A SINGLE OPERATION, BUT RATHER SHALL BE COMPLETED AFTER EACH CONSTRUCTION PHASE. IT IS ESTIMATED THAT SEVERAL MOBILIZATIONS FOR TOPSOIL PLACEMENT, SEEDING, AND MULCHING MAY BE REQUIRED AND SHOULD BE INCLUDED IN THE PRICE OF THE WORK.
  - THE CONTRACTOR SHALL SEED AND MULCH AREAS INDICATED ON THE DRAWINGS WITHIN THE LIMIT OF DISTURBANCE. ANY AREAS BEYOND THESE LIMITS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.
  - DISTURBED SURFACES SHALL BE LEFT IN A ROUGHENED CONDITION AT ALL TIMES DURING CONSTRUCTION.
  - PRIOR TO WINTER STOPPAGE OF CONSTRUCTION ACTIVITIES, TOPSOIL SHALL BE PLACED ON ALL COMPLETED SLOPES, FOLLOWED BY SEEDING AND MULCHING. UNCOMPLETED SLOPES SHALL BE MULCHED WITH NATIVE HAY OR STRAW BY MECHANICALLY CRIMPING IN COMBINATION WITH ORGANIC MULCH TACKIFIER.
  - TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE AS DETERMINED BY THE OWNER. PERMANENT EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL PERMANENT SEEDING HAS BEEN ESTABLISHED.

- GENERAL NOTE(S)**
- WATER QUALITY NOTES:
- ALL ENVIRONMENTAL REQUIREMENTS OF THE OWNER, INCLUDING PROCEDURES FOR STORMWATER MANAGEMENT AND CHEMICAL USE ON SITE, SHALL BE ADHERED TO DURING EXECUTION OF THE WORK.
  - THE CONTRACTOR SHALL REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, AND OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, STORM DRAINAGE FEATURES.
  - THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS, AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING, AND OTHER CONSTRUCTION OPERATIONS.
  - THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ADVERSE IMPACTS TO ADJACENT WATERWAYS AND WETLANDS RESULTING FROM THE WORK.
  - THE CONTRACTOR SHALL ENSURE THAT ALL LOADS OF MATERIAL IMPORTED TO OR EXPORTED FROM THE SITE ARE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORTATION ON PUBLIC RIGHTS-OF-WAY.
  - THE USE OF REBAR, STEEL STAKES, OR STEEL FENCE POSTS TO SECURE STRAW OR HAY BALES OR TO SUPPORT SILT FENCING USED FOR EROSION CONTROL IS PROHIBITED.
  - WATER USED IN THE CLEANING OF CONCRETE TRUCK DELIVERY CHUTES SHALL BE DISCHARGED INTO A PREDEFINED, BERMED CONTAINMENT AREA IN THE WORK AREA. THE REQUIRED CONTAINMENT AREA IS TO BE BERMED SO THAT WASH WATER IS TOTALLY CONTAINED. WASH WATER DISCHARGED IN THE CONTAINMENT AREA SHALL BE ALLOWED TO INFILTRATE OR EVAPORATE. DRIED CEMENT WASTE IS TO BE REMOVED FROM THE CONTAINMENT AREA AND PLACED AT AN OWNER-DESIGNATED LOCATION ON SITE. SHOULD THE BERMED CONTAINMENT AREA NOT BE LARGE ENOUGH TO ACCOMMODATE THE CONSTRUCTION ACTIVITIES, PROPER DISPOSAL OF WASTE AND WATER AT THE SITE SHALL CONFORM TO APPROVED TECHNIQUES AND PRACTICES IDENTIFIED BY THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT ("BUILDING FOR A CLEANER ENVIRONMENT, READY MIX WASHOUT TRAINING" AND "READY MIX WASHOUT GUIDEBOOK, VEHICLE AND EQUIPMENT WASHOUT AT CONSTRUCTION SITES").
  - THE DIRECT OR INDIRECT DISCHARGE OF WATER CONTAINING WASTE CEMENT TO THE STORM SEWER SYSTEM IS PROHIBITED.
  - THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM PAVEMENT CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED. THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING, OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY PAVEMENT CUTTING OPERATIONS ON A DAILY BASIS.
  - THE CONTRACTOR IS RESPONSIBLE FOR KEEPING PAVED ROADS CLEAN OF TRACKED-OUT MATERIALS FROM THE WORK AREA. PAVED SURFACES THAT ARE ADJACENT TO CONSTRUCTION AREAS MUST BE SWEEPED IN A TIMELY MANNER WHEN SEDIMENT OR OTHER MATERIALS ARE TRACKED OR DISCHARGED ONTO THEM. EITHER SWEEPING BY HAND OR USING A STREET SWEEPER IS ACCEPTABLE. A STREET SWEEPER THAT USES WATER WHILE SWEEPING IS PREFERRED IN ORDER TO MINIMIZE DUST. WASHING PAVED SURFACES WITH WATER IS PROHIBITED. GRAVEL TRACKOUT PAD(S) MAY BE REQUIRED IF OTHER TRACKOUT CONTROL MEASURES ARE FOUND TO BE INSUFFICIENT IN THE OPINION OF THE OWNER.

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| REV. | YYYY-MM-DD | DESCRIPTION             |  | PREPARED | DESIGNED | REVIEWED | APPROVED |

SEAL



CLIENT



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PROJECT

CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

TITLE

**GENERAL CIVIL NOTES**

|             |      |    |              |
|-------------|------|----|--------------|
| PROJECT NO. | REV. | of | DRAWING      |
| 1912808404  | 0    |    | 860-1A-C-101 |

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NOTE(S)

1. THIS DRAWING UTILIZES COLOR TO DEPICT SPECIFIC DESIGN ELEMENTS. THEREFORE, IF IT IS NOT PLOTTED OR PRODUCED WITH COLOR, THOSE ELEMENTS MAY NOT COME ACROSS AS DESIGNED.

LEGEND

- 
- EXISTING GROUND TOPOGRAPHY

EROSION & SEDIMENT CONTROL LEGEND

- 
- STRAW WATTLES

LEGEND

- | EXISTING | PROPOSED |                   |
|----------|----------|-------------------|
|          |          | ELECTRICAL        |
|          |          | FENCE             |
|          |          | FIBER OPTICS      |
|          |          | FIRE WATER        |
|          |          | FLOW DIRECTION    |
|          |          | FORCE MAIN        |
|          |          | GAS               |
|          |          | GUARD RAIL        |
|          |          | GRAVITY MAIN      |
|          |          | LIGHTING          |
|          |          | NATURAL GAS       |
|          |          | NON-POTABLE WATER |
|          |          | OVERHEAD POWER    |
|          |          | PIPE              |
|          |          | POTABLE WATER     |
|          |          | POWER             |
|          |          | PRESSURE          |
|          |          | SANITARY SEWER    |
|          |          | STORM SEWER       |
|          |          | STORM DRAIN       |
|          |          | TELEPHONE         |
|          |          | UNDERGROUND       |
|          |          | WASTE WATER       |
|          |          | WATER             |
|          |          | WATER MAIN        |
|          |          | CONCRETE BARRIER  |
|          |          | FIRE HYDRANT      |
|          |          | ROAD / PAVED AREA |

LEGEND

- 
- AGGREGATE BASE COURSE

CROSS-SECTION CALLOUT  
SECTION ID  
DRAWING SHEET LOCATIONDETAIL CALLOUT  
DETAIL ID  
DRAWING SHEET LOCATION

LIST OF ABBREVIATION(S)

- |                 |                                                      |
|-----------------|------------------------------------------------------|
| ABND            | ABANDONED                                            |
| AOS             | APPARENT OPENING SIZE                                |
| APPROX          | APPROXIMATELY                                        |
| AC-FT           | ACRE-FEET                                            |
| @               | AT                                                   |
| BM              | BENCHMARK                                            |
| BOP             | BOTTOM OF PIPE                                       |
| CDOT            | COLORADO DEPARTMENT OF TRANSPORTATION                |
| CDPHE           | COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT |
| CFM             | CUBIC FEET PER MINUTE                                |
| CFS             | CUBIC FEET PER SECOND                                |
| CIP             | CAST IRON PIPE                                       |
| CL              | CENTERLINE                                           |
| CLR             | CLEARANCE                                            |
| CLSM            | CONTROLLED LOW-STRENGTH MATERIAL                     |
| CMP             | CORRUGATED METAL PIPE                                |
| CO              | CLEANOUT                                             |
| CONC            | CONCRETE                                             |
| CPP             | CORRUGATED PLASTIC PIPE                              |
| CU              | CUBIC                                                |
| CU YD           | CUBIC YARDS                                          |
| D <sub>50</sub> | AVERAGE STONE SIZE                                   |
| DET             | DETAIL                                               |
| DI              | DROP INLET                                           |
| DIA, Ø          | DIAMETER                                             |
| DIP             | DUCTILE IRON PIPE                                    |
| EA              | EACH                                                 |
| EF              | EACH FACE                                            |
| EL              | ELEVATION                                            |
| EOR             | ENGINEER OF RECORD                                   |
| EP              | EVENTS POND                                          |
| EW              | EACH WAY                                             |
| EXST, EX        | EXISTING                                             |
| FG              | FINISHED GRADE                                       |
| FL              | FLOW LINE                                            |
| FLG             | FLANGE                                               |
| FO              | FIBER OPTIC                                          |
| FPS             | FOOT PER SECOND                                      |
| ft, FT          | FEET                                                 |
| HDPE            | HIGH-DENSITY POLYETHYLENE                            |
| HYD             | HYDRANT                                              |
| ID              | INNER DIAMETER, INSIDE DIAMETER                      |
| in, IN          | INCHES                                               |
| INV             | INVERT                                               |
| IP              | IRON PIPE                                            |
| IRR             | IRRIGATION                                           |
| LF              | LINEAL FEET                                          |
| MAX             | MAXIMUM                                              |
| MDPE            | MEDIUM-DENSITY POLYETHYLENE                          |
| MGD             | MILLION GALLONS PER DAY                              |
| MH              | MANHOLE                                              |
| MIN             | MINIMUM                                              |
| MISC            | MISCELLANEOUS                                        |
| MJ              | MECHANICAL JOINT                                     |
| MR              | MAYFLOWER RETURN PIPELINE                            |
| MSHA            | MINE SAFETY AND HEALTH ADMINISTRATION                |
| MW              | MILL WATER PIPELINE                                  |
| NA              | NOT APPLICABLE                                       |
| NO., #          | NUMBER                                               |
| NOM             | NOMINAL                                              |
| NTS             | NOT TO SCALE                                         |
| O.C.            | ON CENTER                                            |
| OD              | OUTSIDE DIAMETER                                     |
| OSHA            | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION        |
| PIV             | POST INDICATOR VALVE                                 |
| PSF             | POUNDS PER SQUARE FOOT                               |
| PSI             | POUNDS PER SQUARE INCH                               |
| PVC             | POLYVINYL CHLORIDE                                   |
| R               | RADIUS                                               |
| RCP             | REINFORCED CONCRETE PIPE                             |
| REM             | REMOVED                                              |
| REQ'D           | REQUIRED                                             |
| SCHED, SCH      | SCHEDULE                                             |
| SPEC            | SPECIFICATIONS                                       |
| SQ              | SQUARE                                               |
| SQ FT           | SQUARE FEET                                          |
| STA             | STATION                                              |
| STD             | STANDARD                                             |
| TEMP            | TEMPORARY                                            |
| TOC             | TOP OF CONCRETE                                      |
| TOF             | TOP OF FOOTING                                       |
| TOP             | TOP OF PIPE                                          |
| TYP             | TYPICAL                                              |
| W/              | WITH                                                 |
| W/O             | WITHOUT                                              |
| XFMR'S          | TRANSFORMERS                                         |

|      |            |                         |          |          |                   |
|------|------------|-------------------------|----------|----------|-------------------|
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PROJECT

CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

TITLE

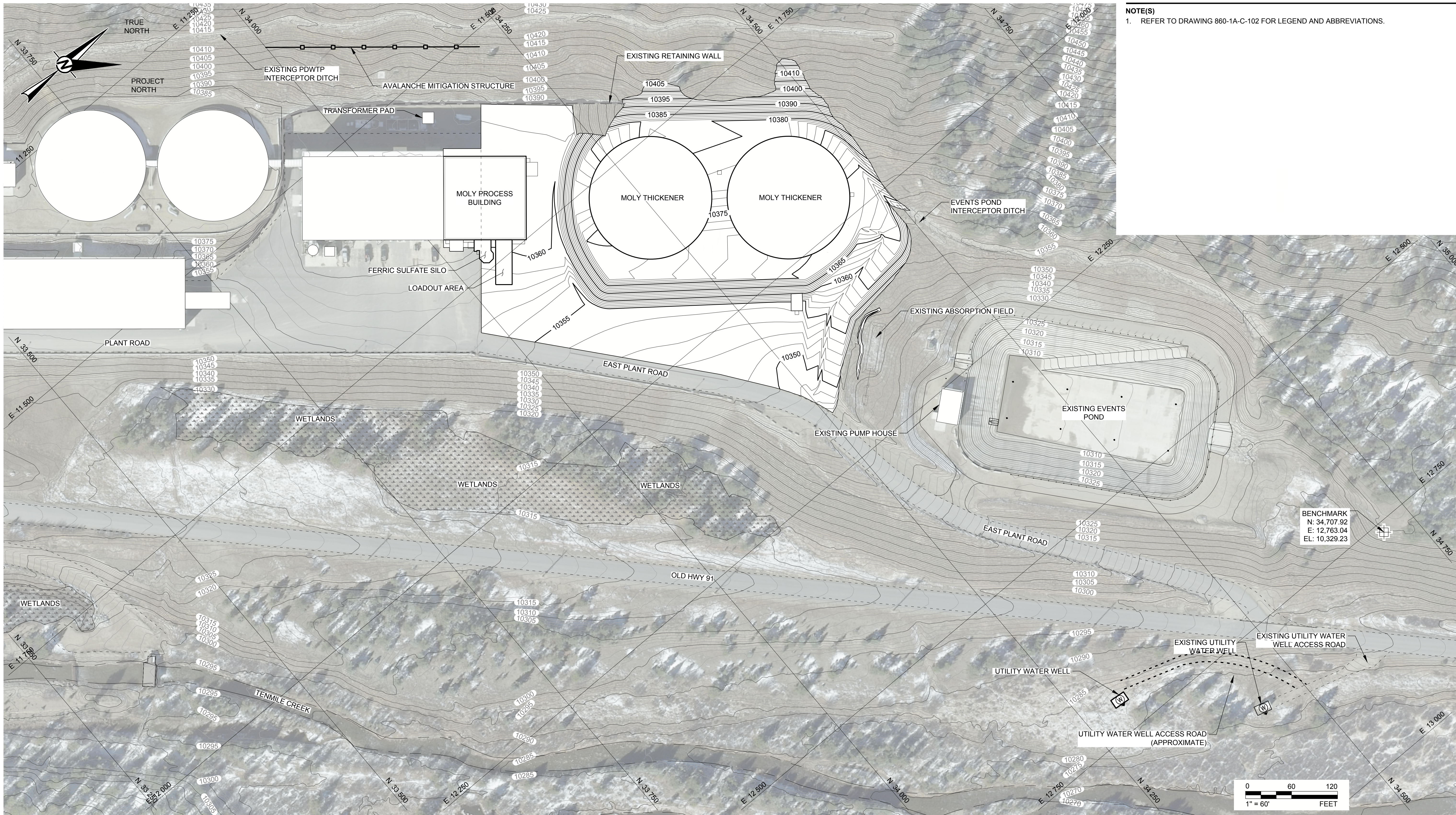
CIVIL LEGEND

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| PROJECT NO. | REV. | of | DRAWING      |
| 1912808404  | 0    |    | 860-1A-C-102 |

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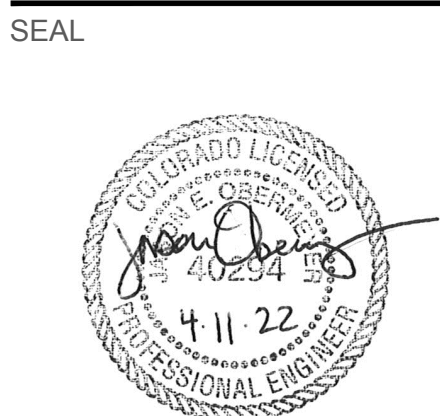


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NOTE(S)  
1. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.

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**Climax Molybdenum**  
A Freeport-McMoRan Company  
CLIMAX, COLORADO  
FREMONT PASS

CONSULTANT  
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PROJECT  
CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

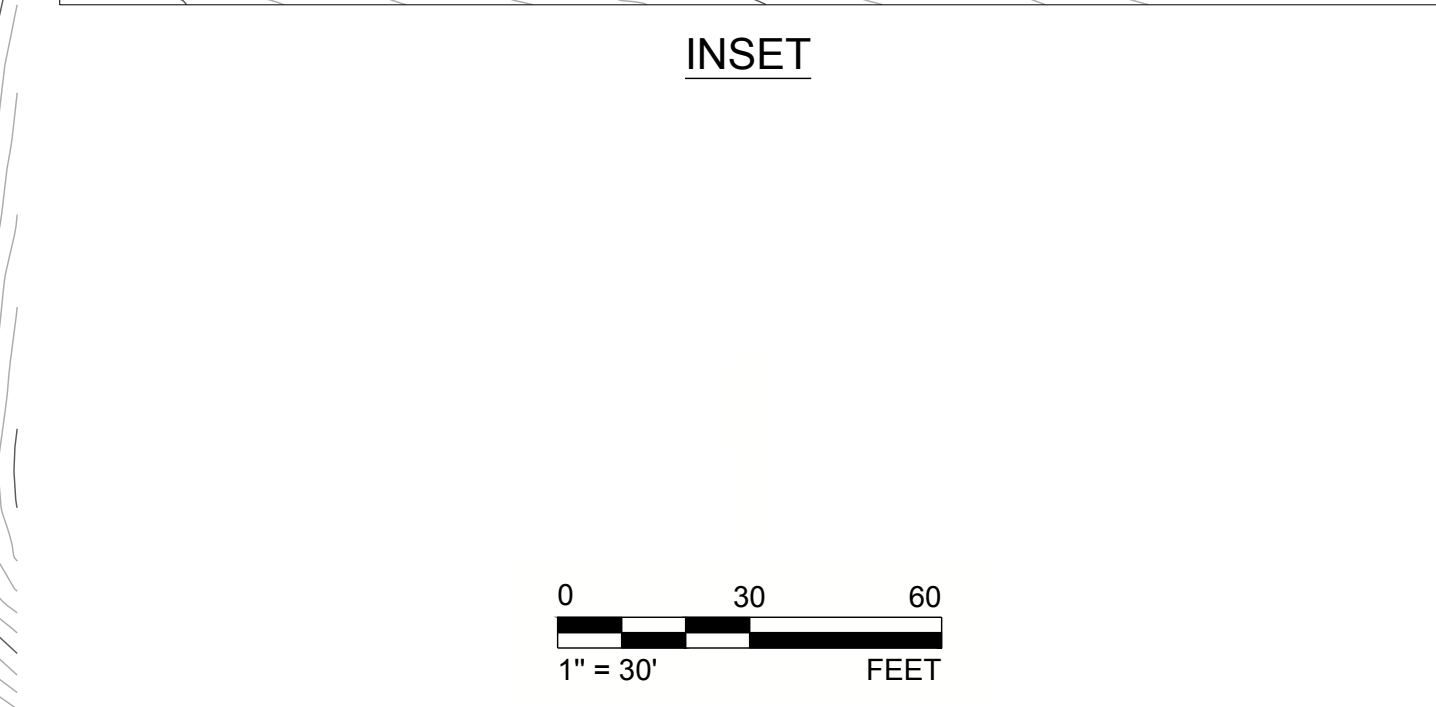
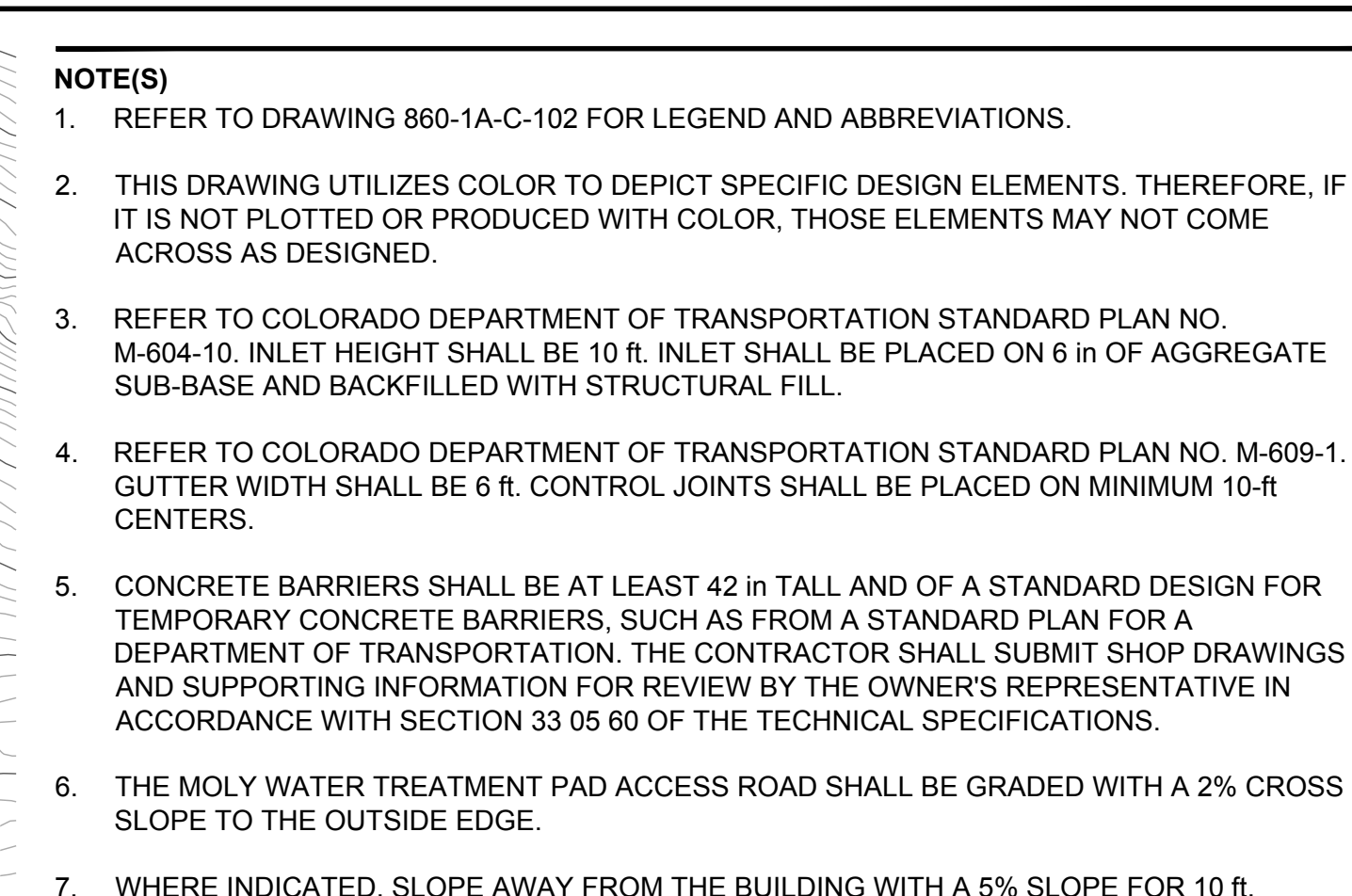
TITLE  
**SITE PLAN**

PROJECT NO. 1912808404  
REV. 0  
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DRAWING 860-1A-C-104

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1. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.
2. THIS DRAWING UTILIZES COLOR TO DEPICT SPECIFIC DESIGN ELEMENTS. THEREFORE, IF IT IS NOT PLOTTED OR PRODUCED WITH COLOR, THOSE ELEMENTS MAY NOT COME ACROSS AS DESIGNED.
3. REFER TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD PLAN NO. M-604-10. INLET HEIGHT SHALL BE 10 ft. INLET SHALL BE PLACED ON 6 in OF AGGREGATE SUB-BASE AND BACKFILLED WITH STRUCTURAL FILL.
4. REFER TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD PLAN NO. M-609-1. GUTTER WIDTH SHALL BE 6 ft. CONTROL JOINTS SHALL BE PLACED ON MINIMUM 10-ft CENTERS.
5. CONCRETE BARRIERS SHALL BE AT LEAST 42 in TALL AND OF A STANDARD DESIGN FOR TEMPORARY CONCRETE BARRIERS, SUCH AS FROM A STANDARD PLAN FOR A DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUPPORTING INFORMATION FOR REVIEW BY THE OWNER'S REPRESENTATIVE IN ACCORDANCE WITH SECTION 33 05 60 OF THE TECHNICAL SPECIFICATIONS.
6. THE MOLY WATER TREATMENT PAD ACCESS ROAD SHALL BE GRADED WITH A 2% CROSS SLOPE TO THE OUTSIDE EDGE.
7. WHERE INDICATED, SLOPE AWAY FROM THE BUILDING WITH A 5% SLOPE FOR 10 ft.

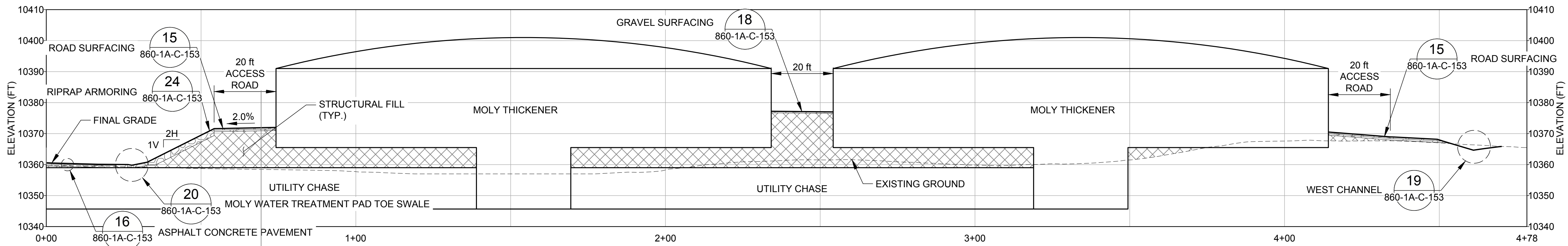
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| PROJECT NO. | REV. | of | DRAWING      |
| 1912808404  | 0    |    | 860-1A-C-115 |

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| PREPARED | DESIGNED | REVIEWED | APPROVED |
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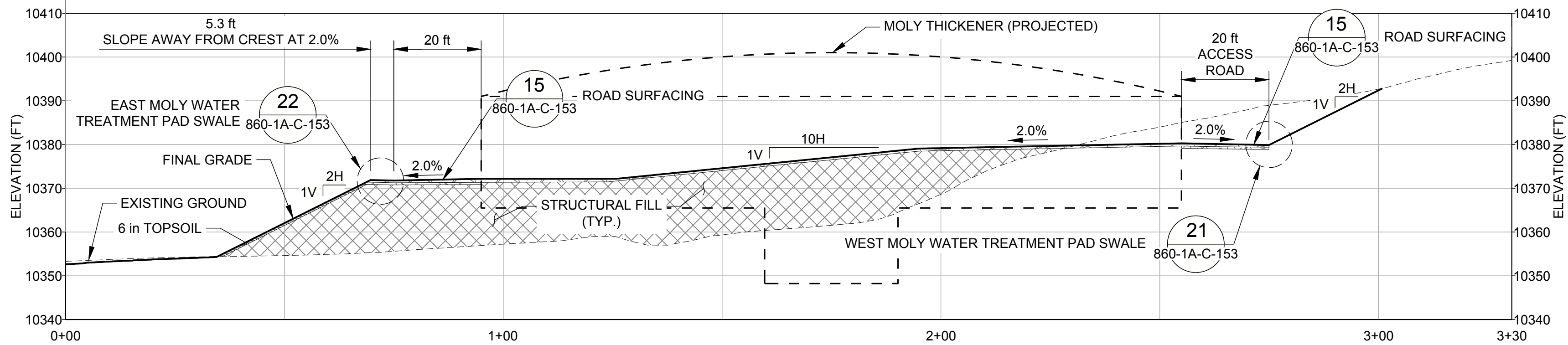
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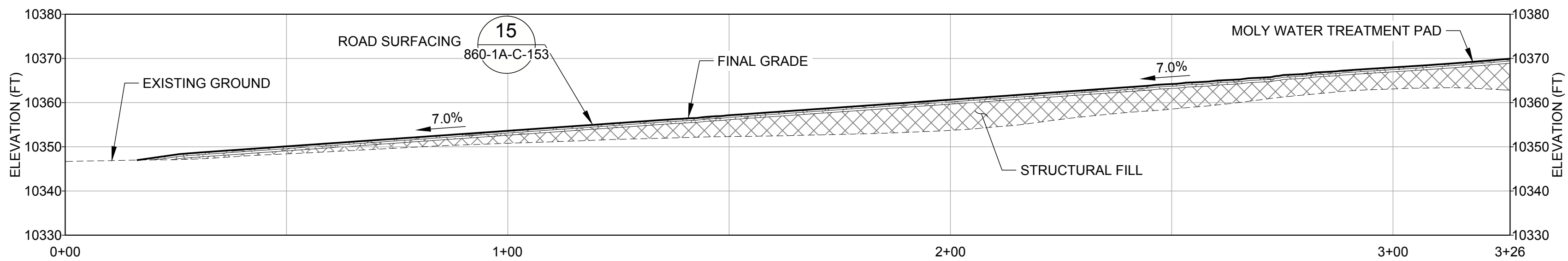
NOTE(S)  
1. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.



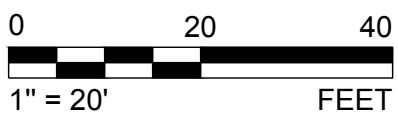
SCALE 1" = 20'  
A MOLY WATER TREATMENT PAD SECTION  
860-1A-C-115



SCALE 1" = 20'  
B MOLY WATER TREATMENT PAD SECTION  
860-1A-C-115



SCALE 1" = 20'  
C MOLY WATER TREATMENT ACCESS RAMP SECTION  
860-1A-C-115



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PROJECT

CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

TITLE

GRADING SECTIONS

PROJECT NO.  
1912808404

REV.

0

of

DRAWING

860-1A-C-117

0 2022-04-12 ISSUED FOR CONSTRUCTION

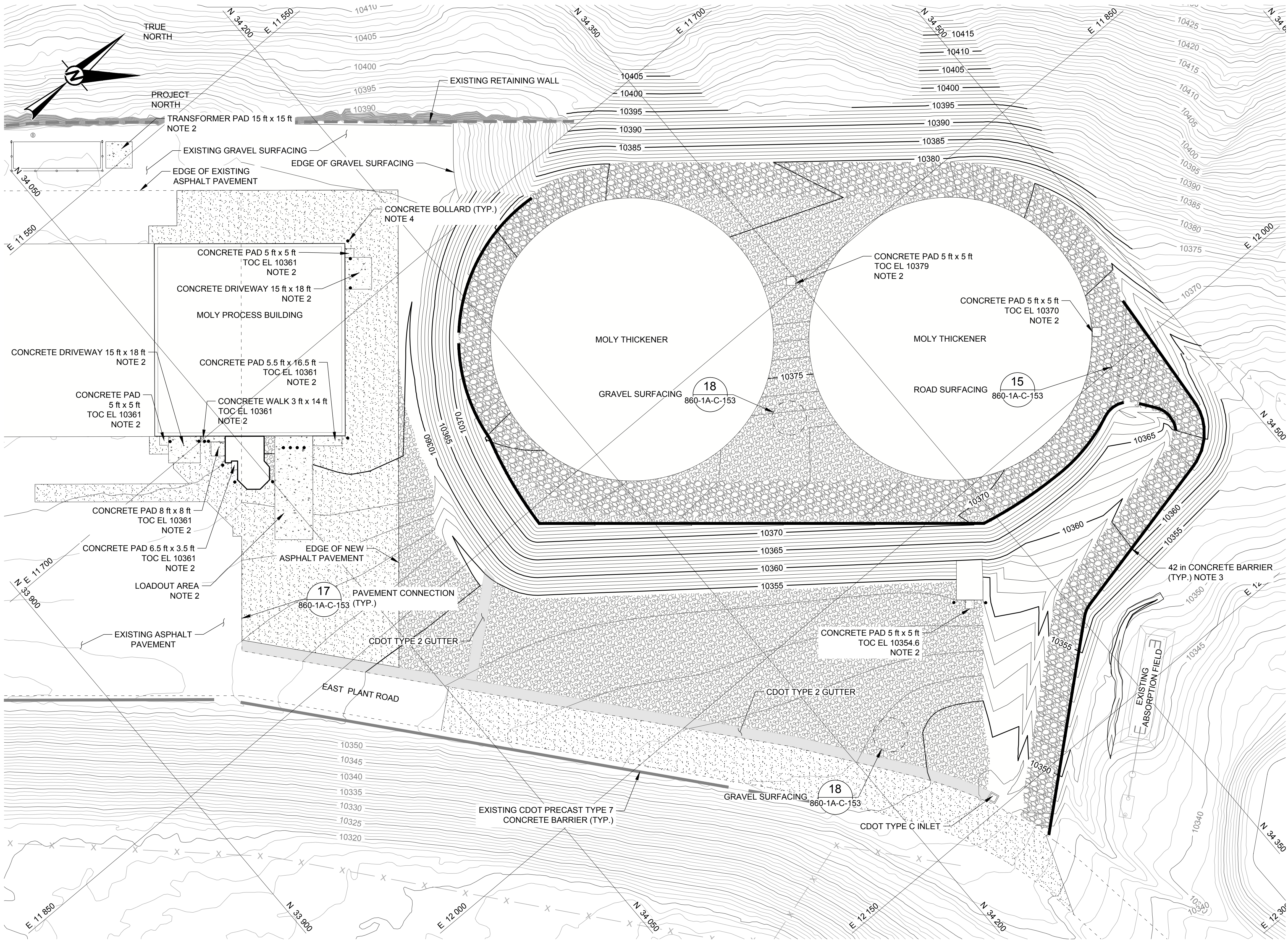
NKR NKR JEO EPB

REV. YYYY-MM-DD DESCRIPTION

PREPARED DESIGNED REVIEWED APPROVED

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- NOTE(S)**
1. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.
  2. REFER TO STRUCTURAL DRAWINGS FOR EXTERIOR DOOR LANDING PAD DETAIL, EXTERIOR STAIR PAD DETAIL, EXTERIOR RAMP APRON SLAB DETAIL, TRANSFORMER PAD DETAILS, AND LOADOUT AREA DETAILS.
  3. CONCRETE BARRIERS SHALL BE AT LEAST 42 in TALL AND OF A STANDARD DESIGN FOR TEMPORARY CONCRETE BARRIERS, SUCH AS FROM A STANDARD PLAN FOR A DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUPPORTING INFORMATION FOR REVIEW BY THE OWNER'S REPRESENTATIVE IN ACCORDANCE WITH SECTION 33 05 60 OF THE TECHNICAL SPECIFICATIONS.
  4. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE BOLLARD DETAILS.

|      |            |                         |          |          |          |          |
|------|------------|-------------------------|----------|----------|----------|----------|
| 0    | 2022-04-12 | ISSUED FOR CONSTRUCTION | NKR      | NKR      | JEO      | EPB      |
| REV. | YYYY-MM-DD | DESCRIPTION             | PREPARED | DESIGNED | REVIEWED | APPROVED |

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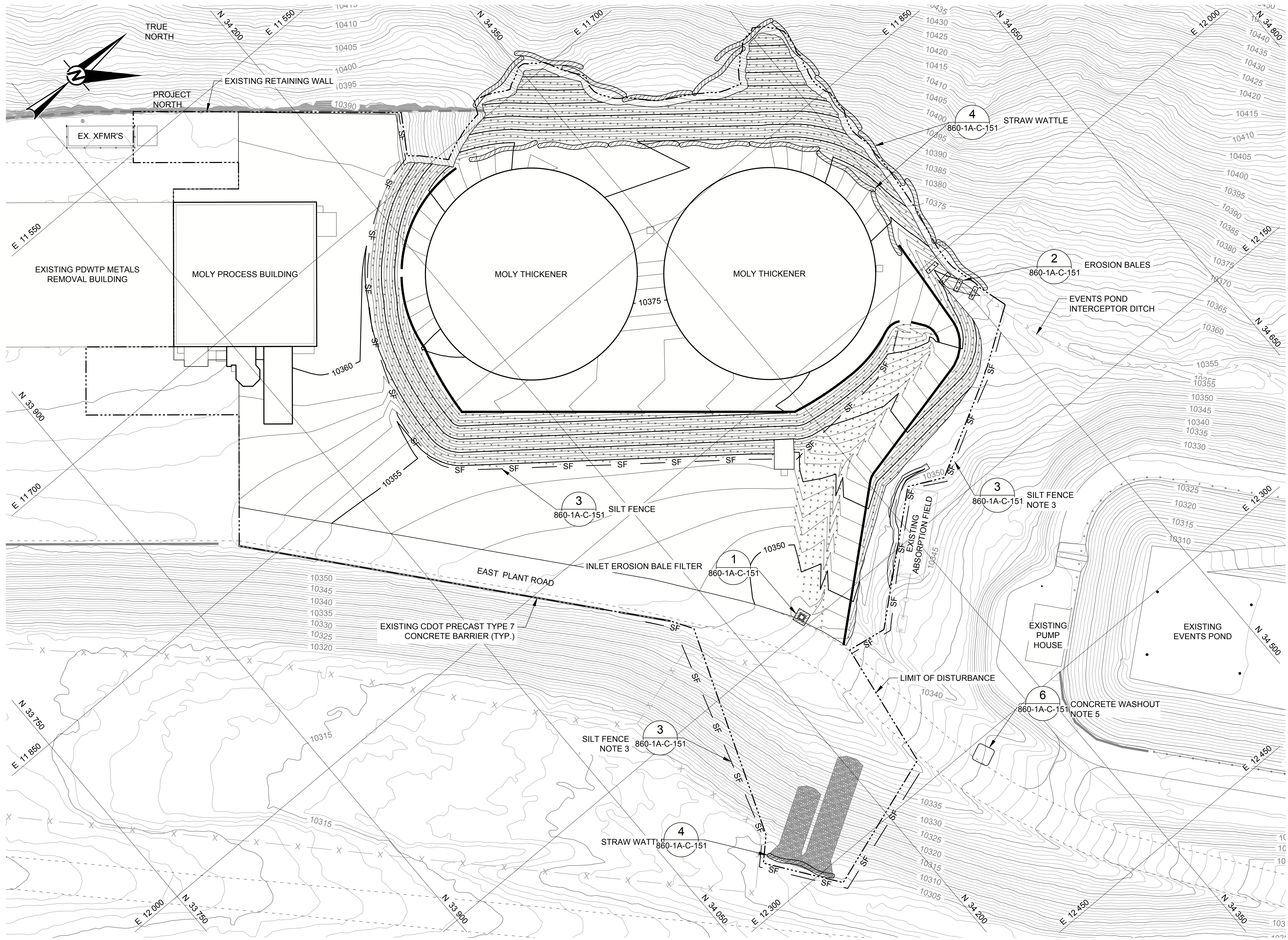
PROJECT  
CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

TITLE  
**SITE LAYOUT AND PAVING PLAN**

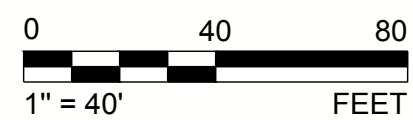
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- NOTE(S)**
1. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.
  2. DEPENDING ON EXISTING CONDITIONS, THE APPLICATION OF SILT FENCE AND STRAW WATTLES WILL BE DETERMINED BY THE CONTRACTOR.
  3. SILT FENCE SHALL BE INSTALLED AT THE LIMIT OF DISTURBANCE WHERE INDICATED.
  4. THE CONTRACTOR SHALL PLACE 6 in OF TOPSOIL AND APPLY SEED WHEREVER EROSION CONTROL BLANKET IS SHOWN AND IN DISTURBED AREAS.
  5. THE CONCRETE WASHOUT CAN BE RELOCATED WITH APPROVAL FROM THE OWNER'S REPRESENTATIVE.
  6. EROSION AND SEDIMENT CONTROL REQUIREMENTS IN THE VICINITY OF THE UTILITY WELL ARE SHOWN ON DRAWING 840-1A-C-131.



|      |            |             |                         |          |          |          |          |
|------|------------|-------------|-------------------------|----------|----------|----------|----------|
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| REV. | YYYY-MM-DD | DESCRIPTION |                         | PREPARED | DESIGNED | REVIEWED | APPROVED |

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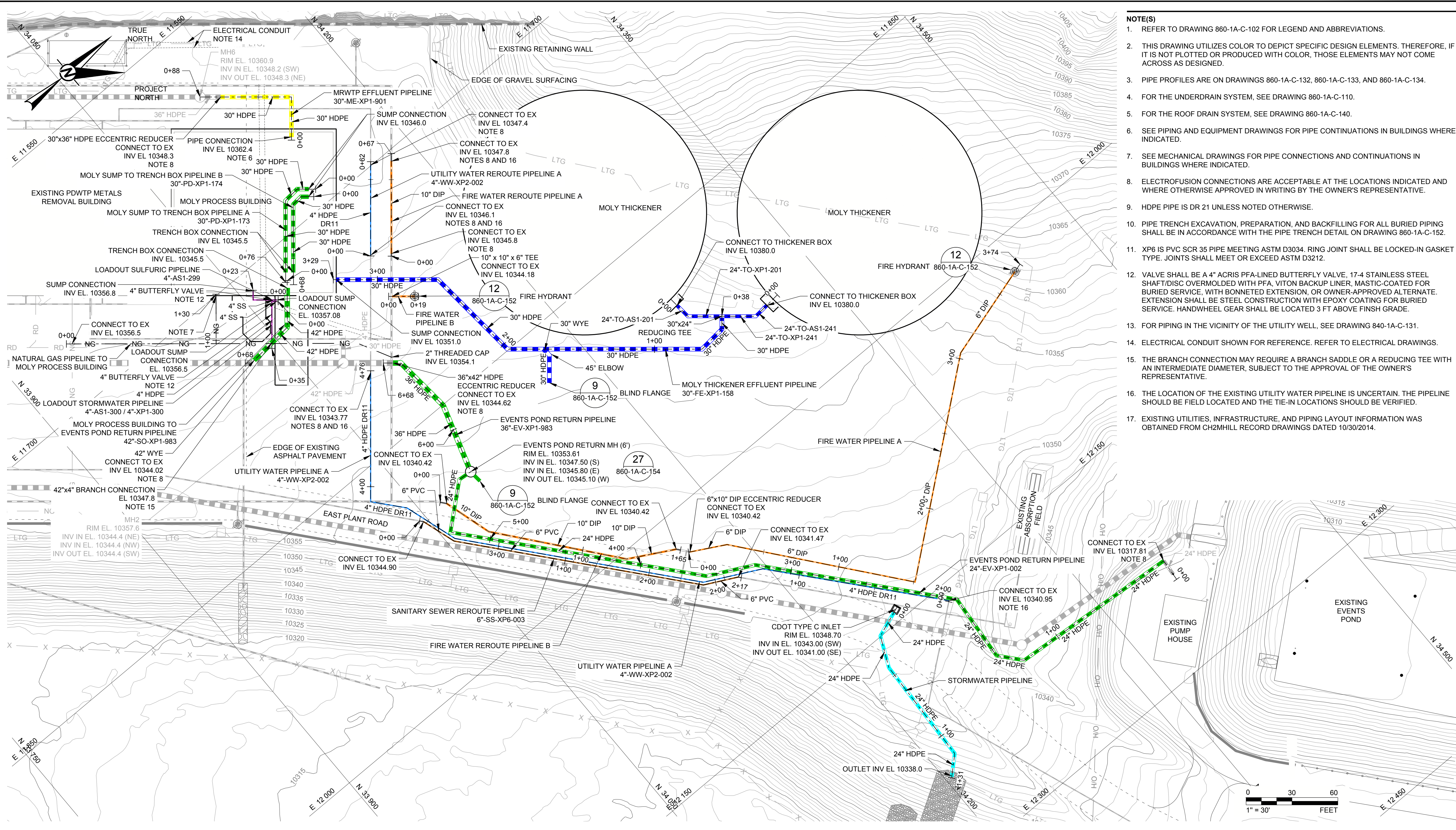
PROJECT  
CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

TITLE  
**EROSION AND SEDIMENT CONTROL**

|             |      |    |              |
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| PROJECT NO. | REV. | of | DRAWING      |
| 1912808404  | 0    |    | 860-1A-C-121 |

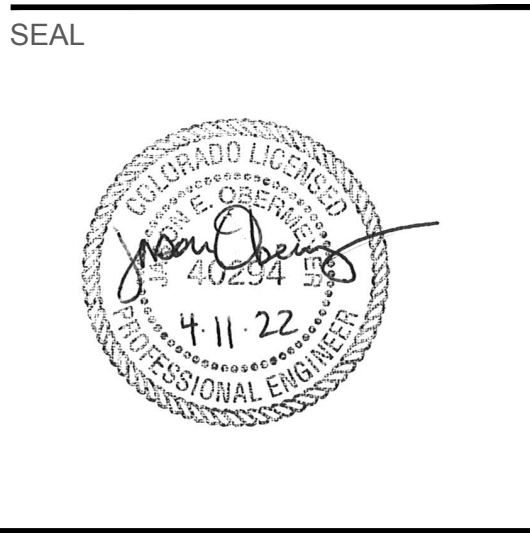
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- NOTE(S)**
1. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.
  2. THIS DRAWING UTILIZES COLOR TO DEPICT SPECIFIC DESIGN ELEMENTS. THEREFORE, IF IT IS NOT PLOTTED OR PRODUCED WITH COLOR, THOSE ELEMENTS MAY NOT COME ACROSS AS DESIGNED.
  3. PIPE PROFILES ARE ON DRAWINGS 860-1A-C-132, 860-1A-C-133, AND 860-1A-C-134.
  4. FOR THE UNDERDRAIN SYSTEM, SEE DRAWING 860-1A-C-110.
  5. FOR THE ROOF DRAIN SYSTEM, SEE DRAWING 860-1A-C-140.
  6. SEE PIPING AND EQUIPMENT DRAWINGS FOR PIPE CONTINUATIONS IN BUILDINGS WHERE INDICATED.
  7. SEE MECHANICAL DRAWINGS FOR PIPE CONNECTIONS AND CONTINUATIONS IN BUILDINGS WHERE INDICATED.
  8. ELECTROFUSION CONNECTIONS ARE ACCEPTABLE AT THE LOCATIONS INDICATED AND WHERE OTHERWISE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
  9. HDPE PIPE IS DR 21 UNLESS NOTED OTHERWISE.
  10. PIPE TRENCH EXCAVATION, PREPARATION, AND BACKFILLING FOR ALL BURIED PIPING SHALL BE IN ACCORDANCE WITH THE PIPE TRENCH DETAIL ON DRAWING 860-1A-C-152.
  11. XP6 IS PVC SCR 35 PIPE MEETING ASTM D3034. RING JOINT SHALL BE LOCKED-IN GASKET TYPE. JOINTS SHALL MEET OR EXCEED ASTM D3212.
  12. VALVE SHALL BE A 4" ACRIS PFA-LINED BUTTERFLY VALVE, 17-4 STAINLESS STEEL SHAFT/DISC OVERMOLDED WITH PFA, VITON BACKUP LINER, MASTIC-COATED FOR BURIED SERVICE, WITH BONNETED EXTENSION, OR OWNER-APPROVED ALTERNATE. EXTENSION SHALL BE STEEL CONSTRUCTION WITH EPOXY COATING FOR BURIED SERVICE. HANDWHEEL GEAR SHALL BE LOCATED 3 FT ABOVE FINISH GRADE.
  13. FOR PIPING IN THE VICINITY OF THE UTILITY WELL, SEE DRAWING 840-1A-C-131.
  14. ELECTRICAL CONDUIT SHOWN FOR REFERENCE. REFER TO ELECTRICAL DRAWINGS.
  15. THE BRANCH CONNECTION MAY REQUIRE A BRANCH SADDLE OR A REDUCING TEE WITH AN INTERMEDIATE DIAMETER, SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
  16. THE LOCATION OF THE EXISTING UTILITY WATER PIPELINE IS UNCERTAIN. THE PIPELINE SHOULD BE FIELD LOCATED AND THE TIE-IN LOCATIONS SHOULD BE VERIFIED.
  17. EXISTING UTILITIES, INFRASTRUCTURE, AND PIPING LAYOUT INFORMATION WAS OBTAINED FROM CH2MHILL RECORD DRAWINGS DATED 10/30/2014.

|      |            |             |                         |          |          |          |          |     |
|------|------------|-------------|-------------------------|----------|----------|----------|----------|-----|
| 0    |            | 2022-04-12  | ISSUED FOR CONSTRUCTION | NKR      |          | BJP      | JEO      | EPB |
| REV. | YYYY-MM-DD | DESCRIPTION |                         | PREPARED | DESIGNED | REVIEWED | APPROVED |     |



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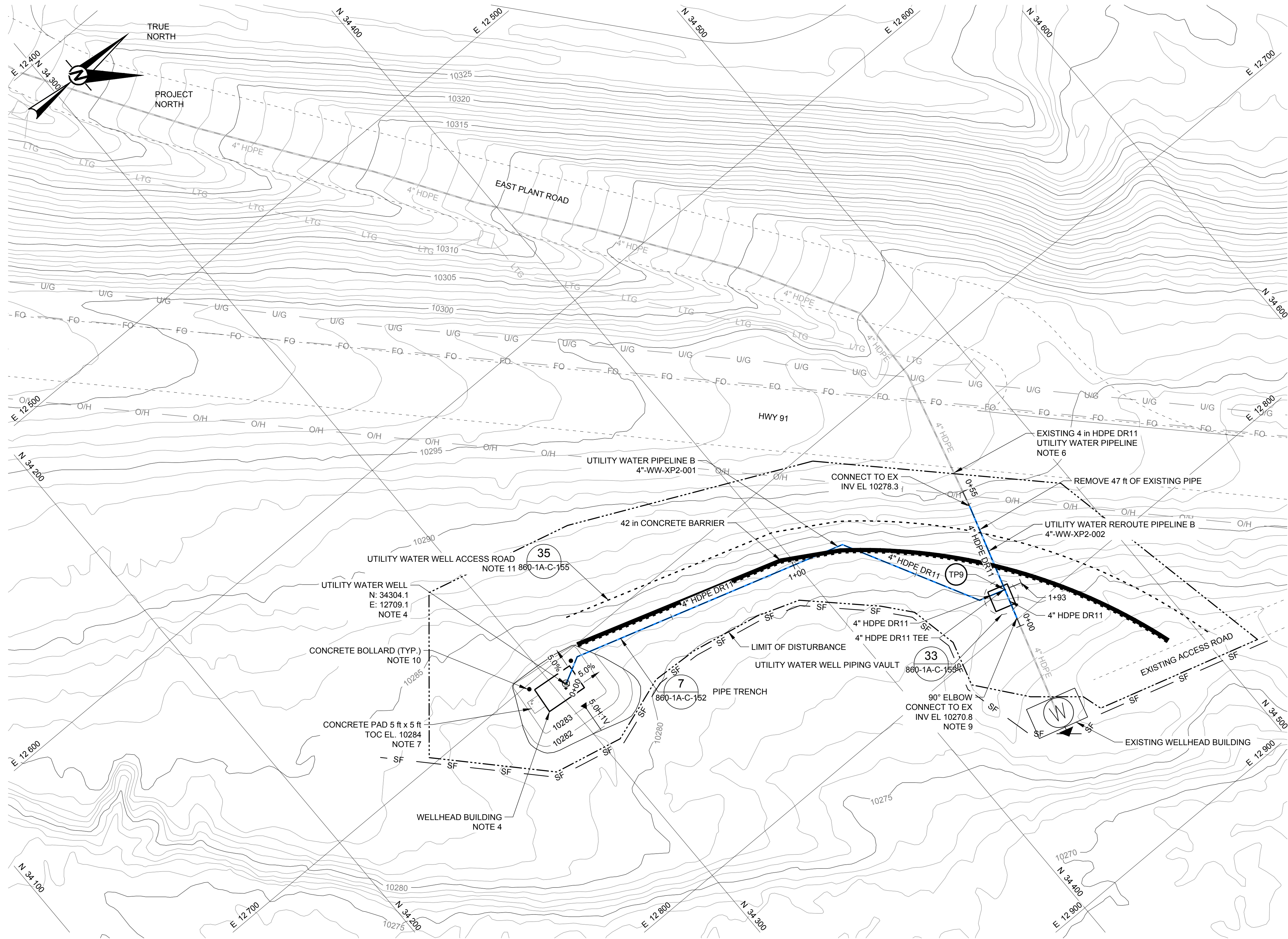
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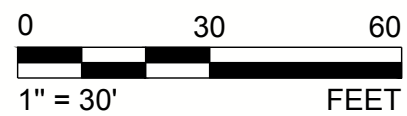
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| PROJECT     |            | CLIMAX MINE                              |              |
|             |            | MOLYBDENUM REMOVAL WATER TREATMENT PLANT |              |
| TITLE       |            | YARD PIPING PLAN                         |              |
| PROJECT NO. | 1912808404 | REV.                                     | 0            |
|             |            | of                                       | 1            |
|             |            | DRAWING                                  | 860-1A-C-130 |

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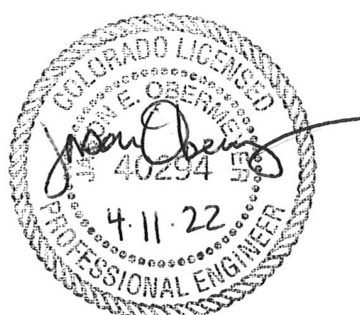


- NOTE(S)**
1. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.
  2. THIS DRAWING UTILIZES COLOR TO DEPICT SPECIFIC DESIGN ELEMENTS. THEREFORE, IF IT IS NOT PLOTTED OR PRODUCED WITH COLOR, THOSE ELEMENTS MAY NOT COME ACROSS AS DESIGNED.
  3. UTILITY WATER PIPING IS 4 in IPS HDPE DR11 PIPE UNLESS OTHERWISE STATED.
  4. WELLHEAD BUILDING DESIGN INFORMATION IS PROVIDED ON STRUCTURAL DRAWING 840-1A-S-101. UTILITY WATER WELL DESIGN INFORMATION IS PROVIDED ON DRAWING 840-1A-C-135.
  5. TP9 - NEW FRESH WATER WELL FOR UTILITY WATER.
  6. BASED ON A HYDROGEOLOGIC EVALUATION COMPLETED BY GOLDER, THE UTILITY WELLS ARE SPACED APPROXIMATELY 185 FEET APART TO LIMIT DRAWDOWN INTERFERENCES DURING WELL PUMPING.
  7. REFER TO STRUCTURAL DRAWINGS FOR EXTERIOR DOOR LANDING PAD DETAIL.
  8. THE CONTRACTOR SHALL PLACE 6 in OF TOPSOIL, INSTALL EROSION CONTROL BLANKET, AND APPLY SEED IN DISTURBED AREAS (EXCEPT THE ACCESS ROAD).
  9. THE LOCATION OF THE EXISTING UTILITY WATER PIPELINE IS APPROXIMATE. THE PIPELINE SHOULD BE FIELD LOCATED AND THE TIE-IN LOCATIONS SHOULD BE VERIFIED.
  10. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE BOLLARD DETAILS.
  11. THE ACCESS ROAD ALIGNMENT MAY BE ADJUSTED BASED ON FIELD CONDITIONS AS APPROVED BY THE OWNER. ACCESS ROAD ELEVATIONS WILL BE DETERMINED IN THE FIELD.



|      |            |                         |          |          |          |          |
|------|------------|-------------------------|----------|----------|----------|----------|
| 0    | 2022-04-12 | ISSUED FOR CONSTRUCTION | NKR      | BJP      | JEO      | EPB      |
| REV. | YYYY-MM-DD | DESCRIPTION             | PREPARED | DESIGNED | REVIEWED | APPROVED |

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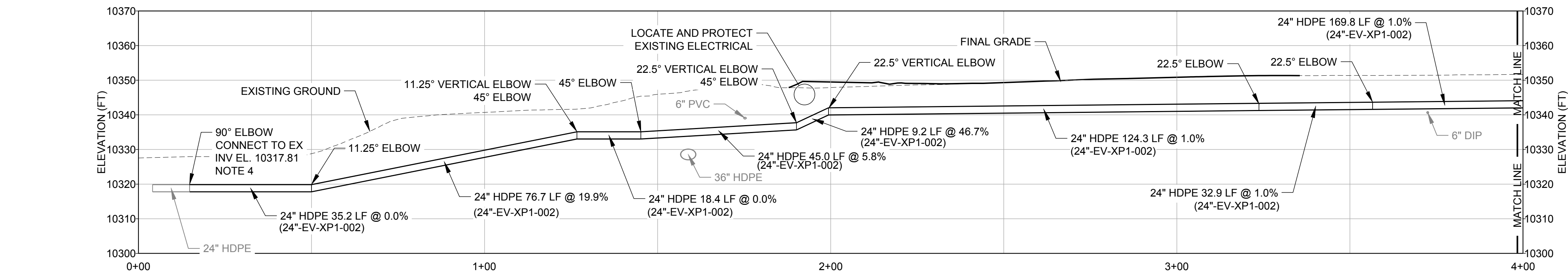
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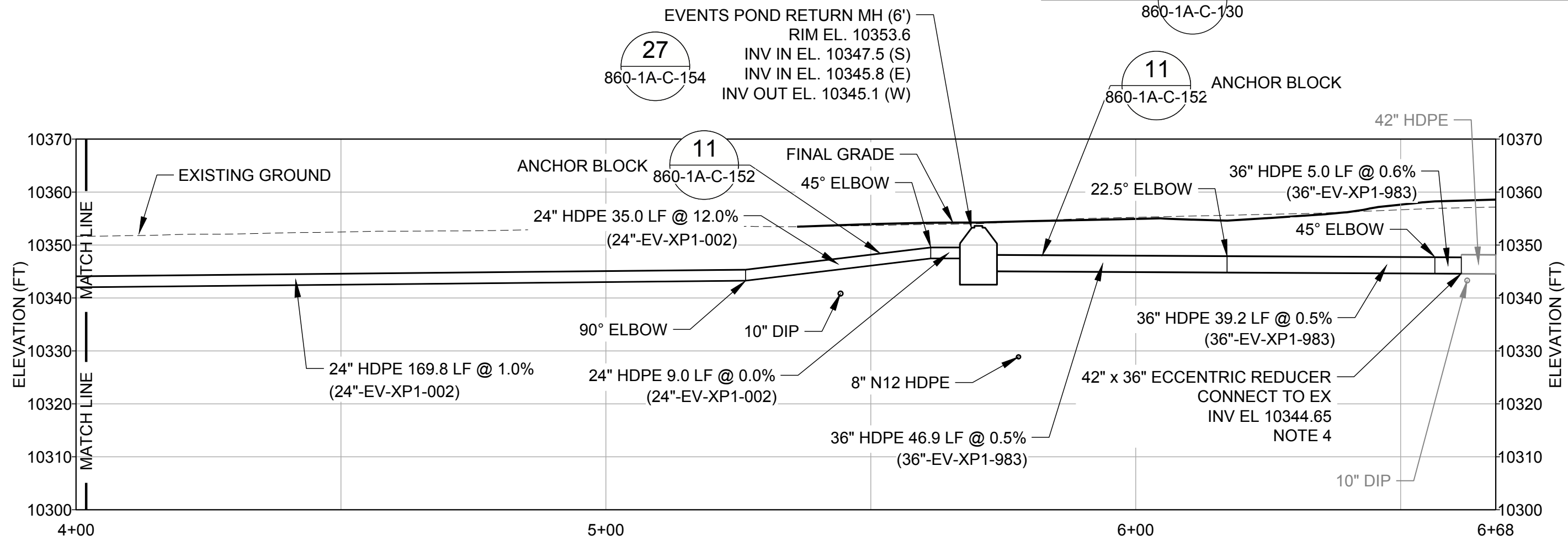
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| PROJECT     | CLIMAX MINE<br>MOLYBDENUM REMOVAL WATER TREATMENT PLANT |
| TITLE       | UTILITY WATER WELL AND PIPING                           |
| PROJECT NO. | 1912808404                                              |
| REV.        | 0                                                       |
| of          |                                                         |
| DRAWING     | 840-1A-C-131                                            |

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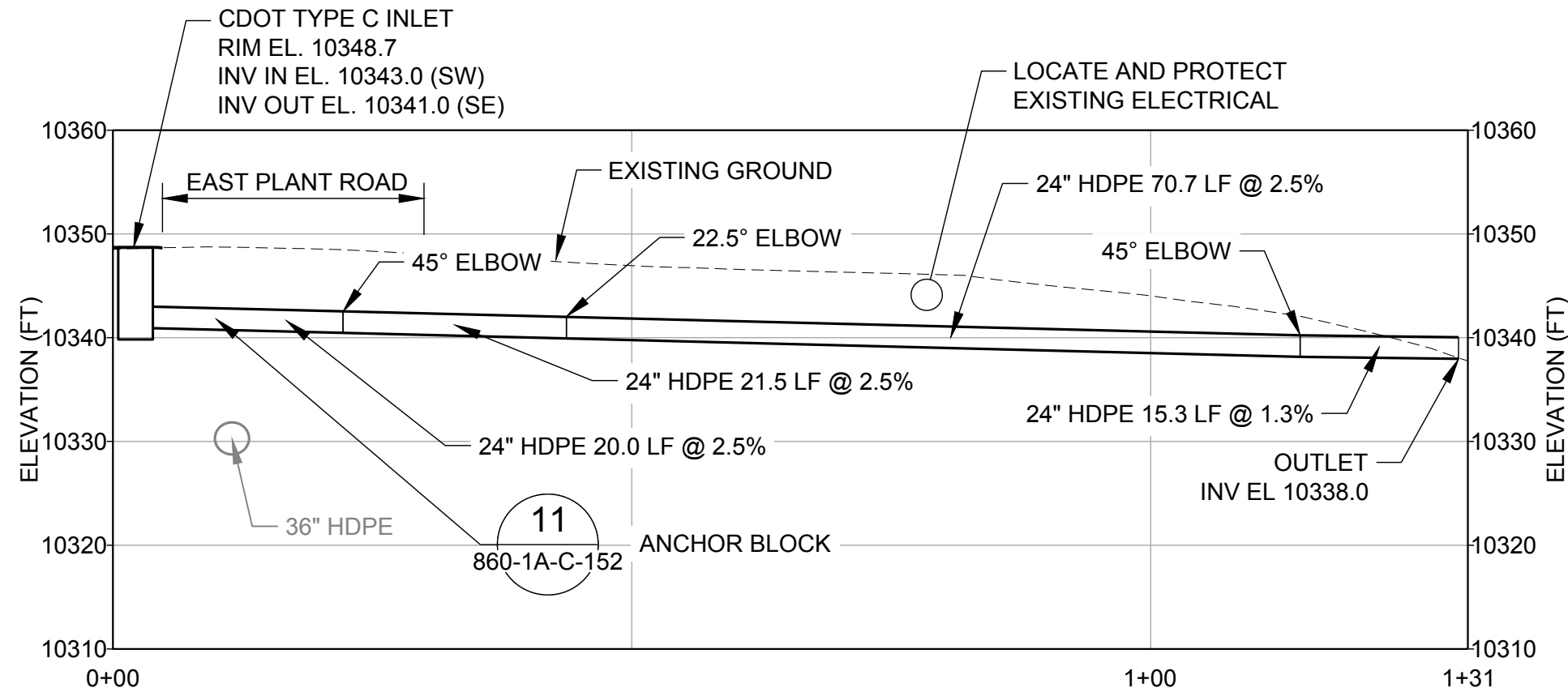
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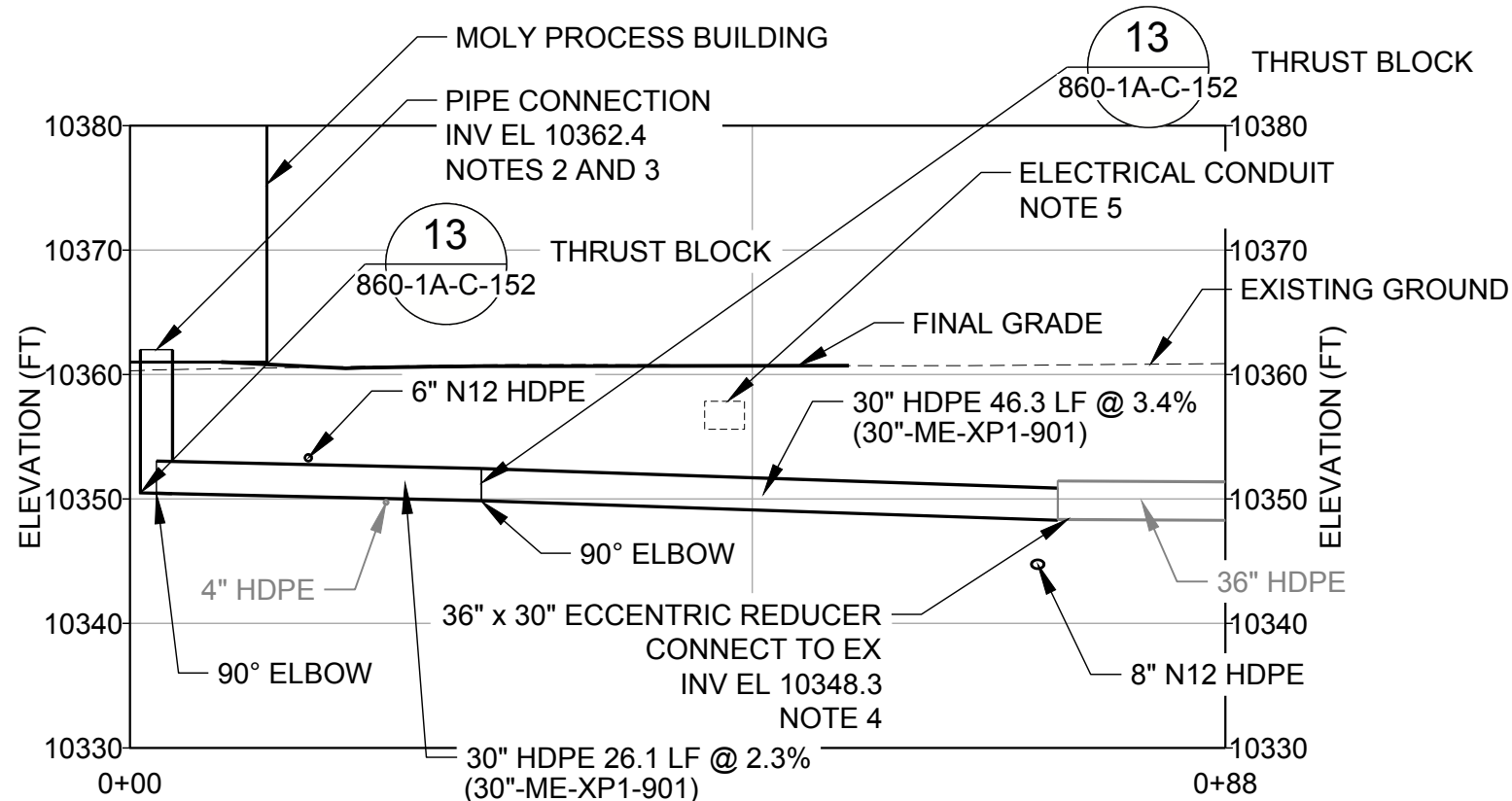
SCALE 1" = 20' **D** EVENTS POND RETURN PIPELINE  
860-1A-C-130



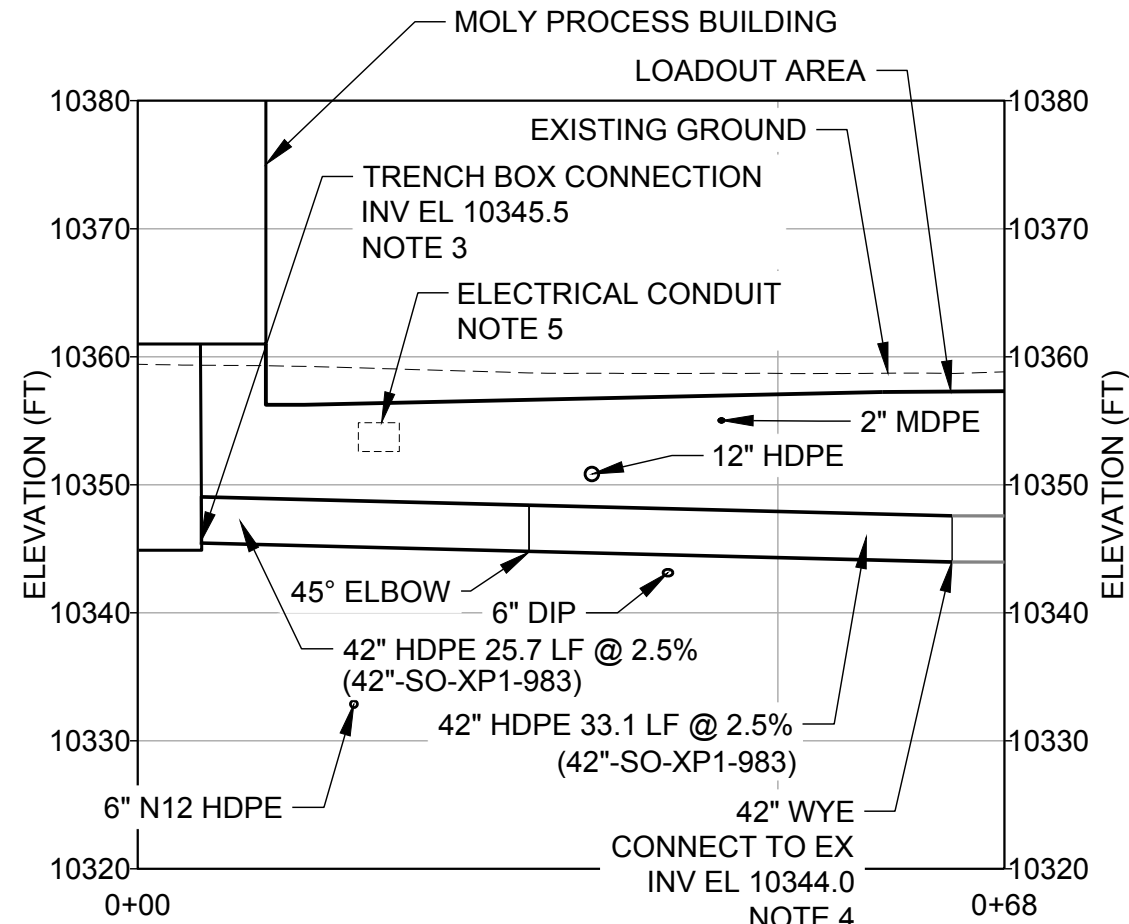
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860-1A-C-130



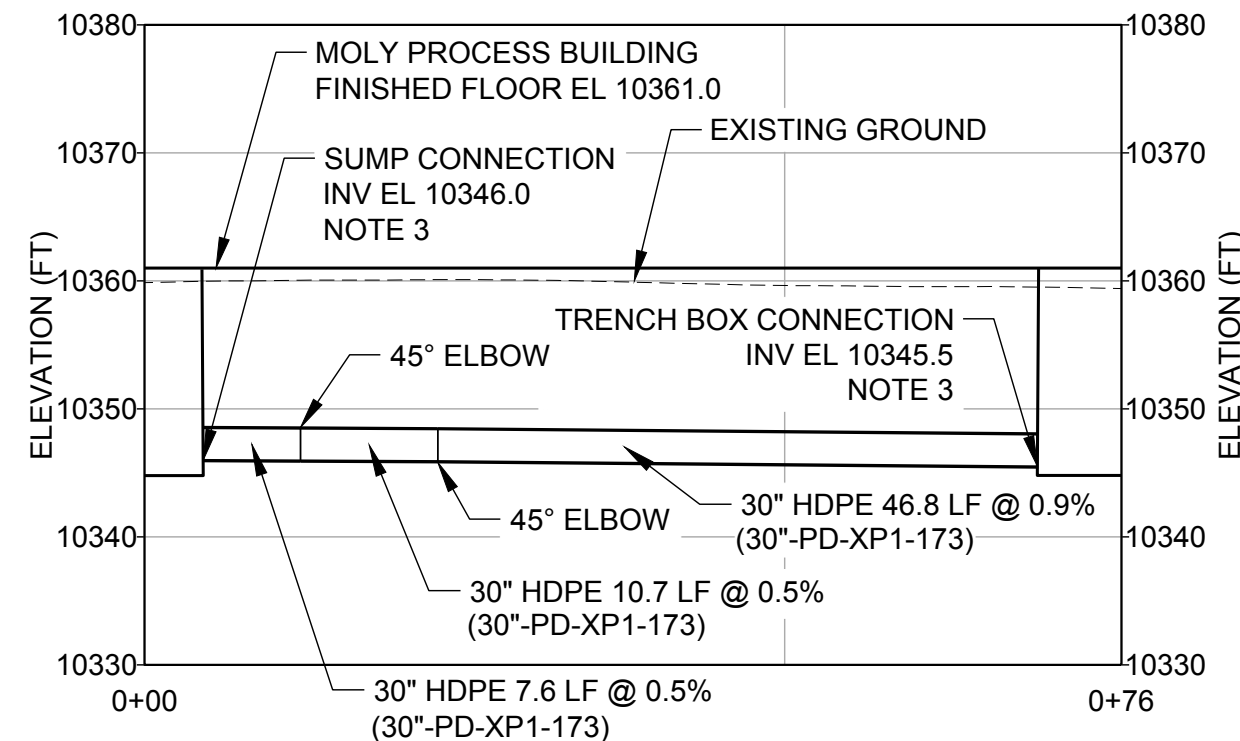
SCALE 1" = 15' **E** STORMWATER PIPELINE  
860-1A-C-130



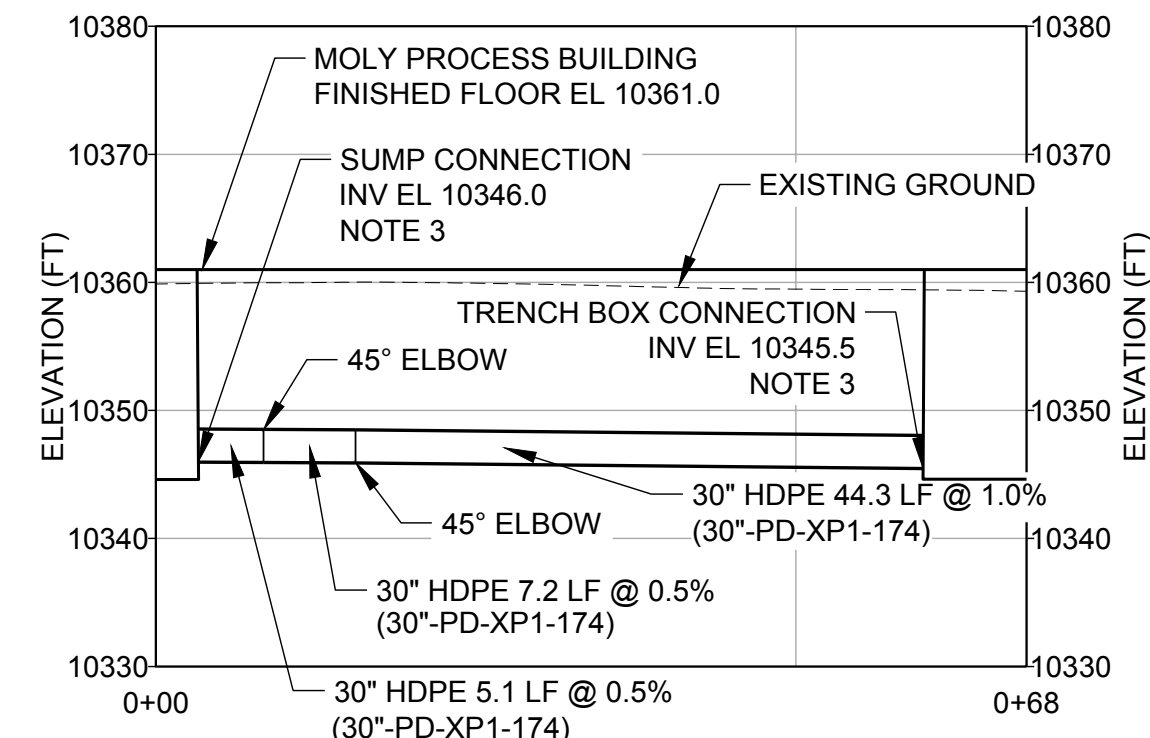
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860-1A-C-130



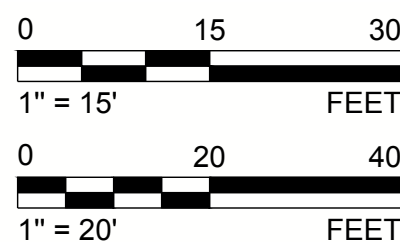
SCALE 1" = 15' **G** MOLY PROCESS BUILDING TO EVENTS POND RETURN PIPELINE  
860-1A-C-130



SCALE 1" = 15' **H** MOLY SUMP TO TRENCH BOX PIPELINE A  
860-1A-C-130



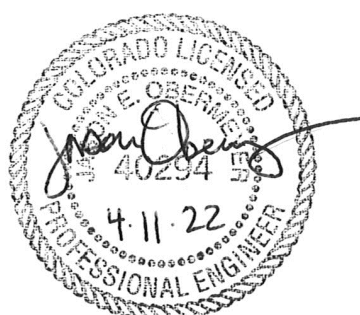
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860-1A-C-130



**NOTE(S)**

1. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.
2. SEE PIPING AND EQUIPMENT DRAWINGS FOR PIPE CONTINUATIONS IN BUILDINGS AND STRUCTURES.
3. SEE STRUCTURAL DRAWINGS FOR WALL AND FLOOR PENETRATION DETAILS.
4. ELECTROFUSION CONNECTIONS ARE ACCEPTABLE AT THE LOCATIONS INDICATED AND WHERE OTHERWISE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
5. ELECTRICAL CONDUIT SHOWN FOR REFERENCE. REFER TO ELECTRICAL DRAWINGS.

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PROJECT

CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

TITLE

**YARD PIPING PROFILES SHEET 1**

PROJECT NO.

1912808404

REV.

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DRAWING

860-1A-C-132

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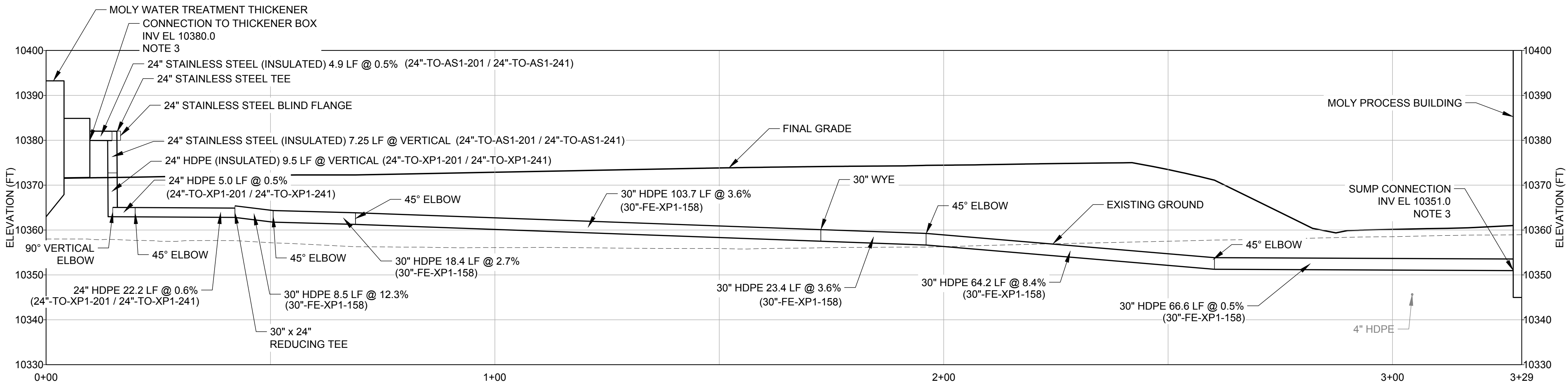
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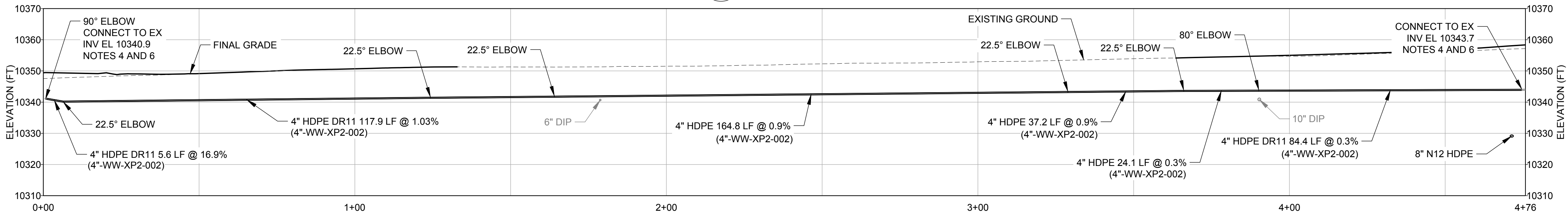
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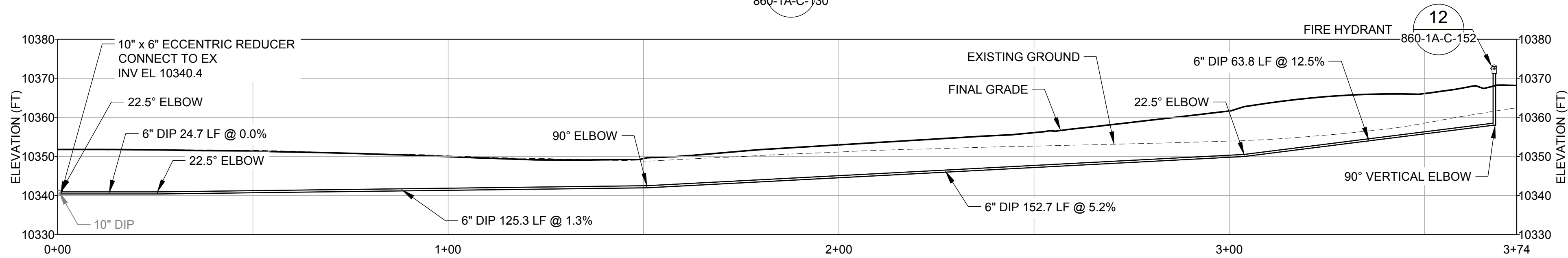
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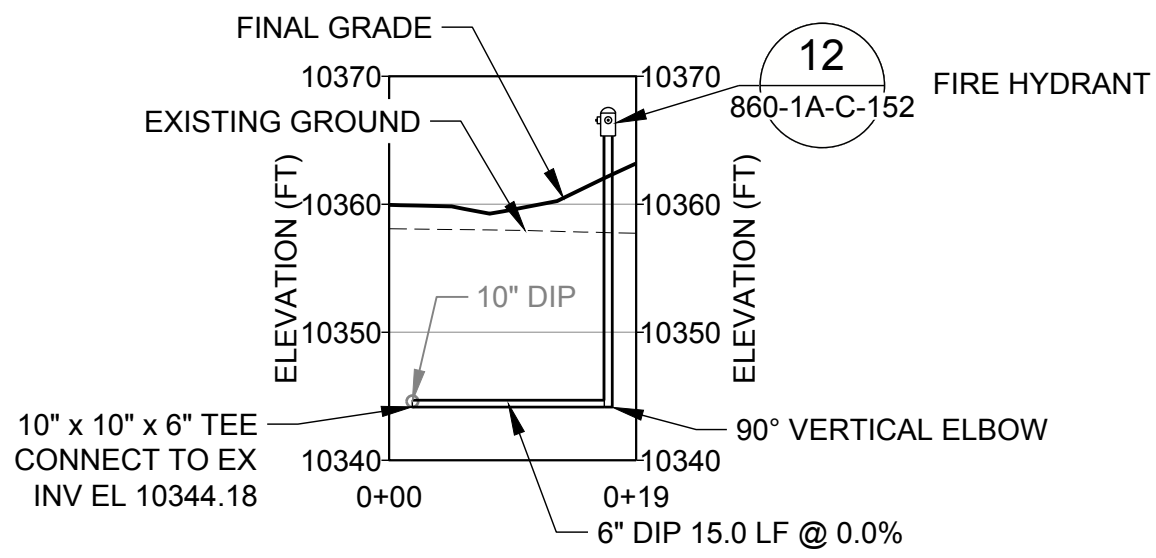
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J MOLY THICKENER EFFLUENT PIPELINE  
860-1A-C-130



SCALE 1" = 20'  
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860-1A-C-130

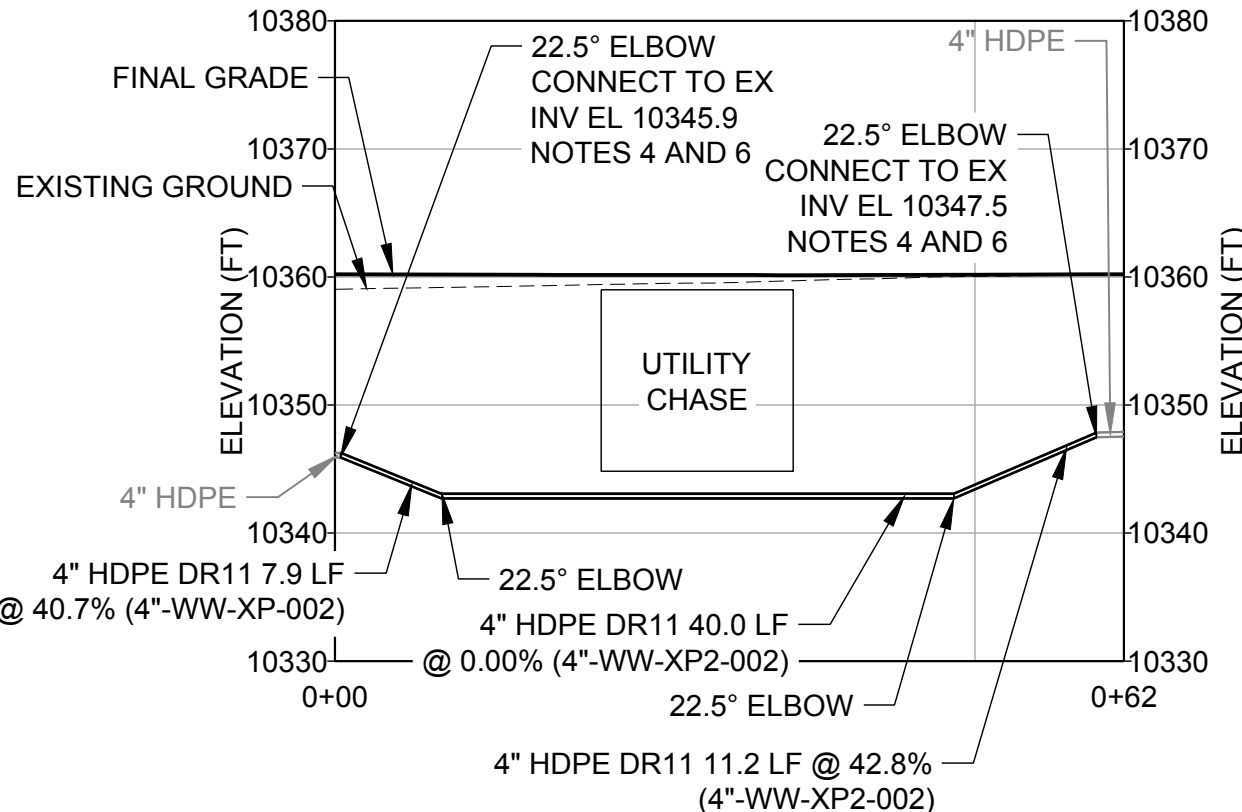


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M FIRE WATER PIPELINE A  
860-1A-C-130

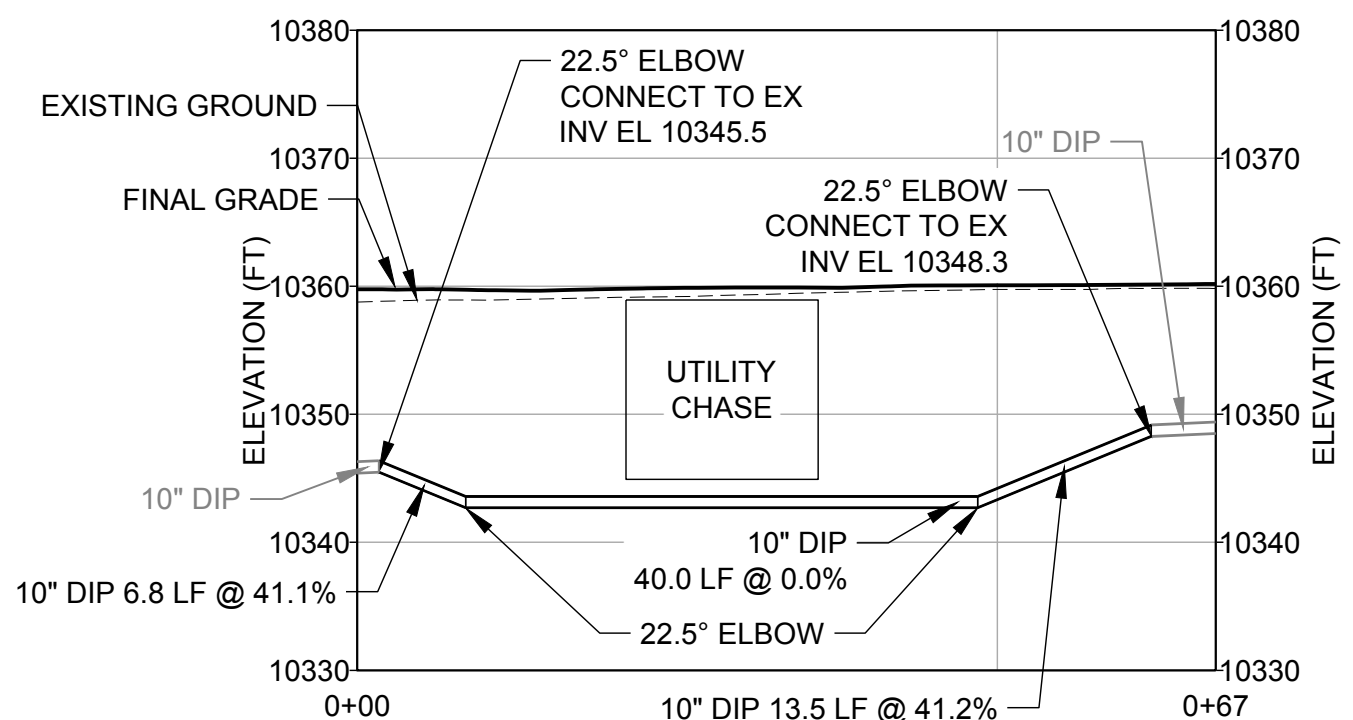


SCALE 1" = 15'  
O FIRE WATER PIPELINE B  
860-1A-C-133

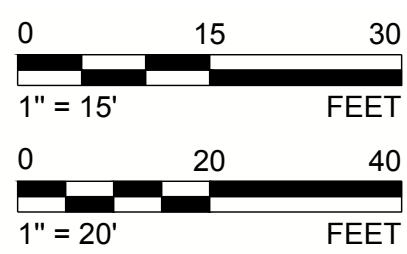
- NOTE(S)**
1. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.
  2. SEE PIPING AND EQUIPMENT DRAWINGS FOR PIPE CONTINUATIONS IN BUILDINGS AND STRUCTURES.
  3. SEE STRUCTURAL DRAWINGS FOR WALL AND FLOOR PENETRATION DETAILS.
  4. ELECTROFUSION CONNECTIONS ARE ACCEPTABLE AT THE LOCATIONS INDICATED AND WHERE OTHERWISE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
  5. SEE MECHANICAL DRAWINGS FOR NATURAL GAS PIPELINE CONNECTION.
  6. THE LOCATION OF THE EXISTING UTILITY WATER PIPELINE IS UNCERTAIN. THE PIPELINE SHOULD BE FIELD LOCATED AND THE TIE-IN LOCATIONS SHOULD BE VERIFIED.



SCALE 1" = 15'  
L UTILITY WATER REROUTE PIPELINE A  
860-1A-C-130



SCALE 1" = 15'  
N FIRE WATER REROUTE PIPELINE A  
860-1A-C-130



|      |            |                         |          |          |          |          |
|------|------------|-------------------------|----------|----------|----------|----------|
| 0    | 2022-04-12 | ISSUED FOR CONSTRUCTION | BJP      | NKR      | JEO      | EPB      |
| REV. | YYYY-MM-DD | DESCRIPTION             | DESIGNED | PREPARED | REVIEWED | APPROVED |

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CLIENT

**Climax Molybdenum**  
A Freeport-McMoRan Company

CLIMAX, COLORADO  
FREMONT PASS

CONSULTANT



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USA  
[+1] (303) 980-0540  
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PROJECT

CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

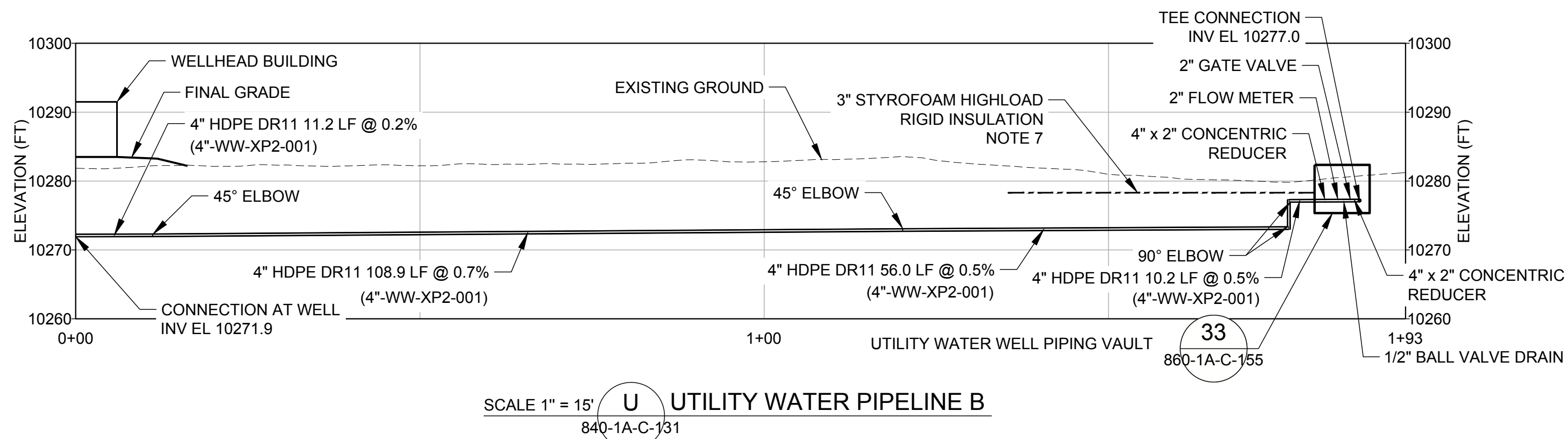
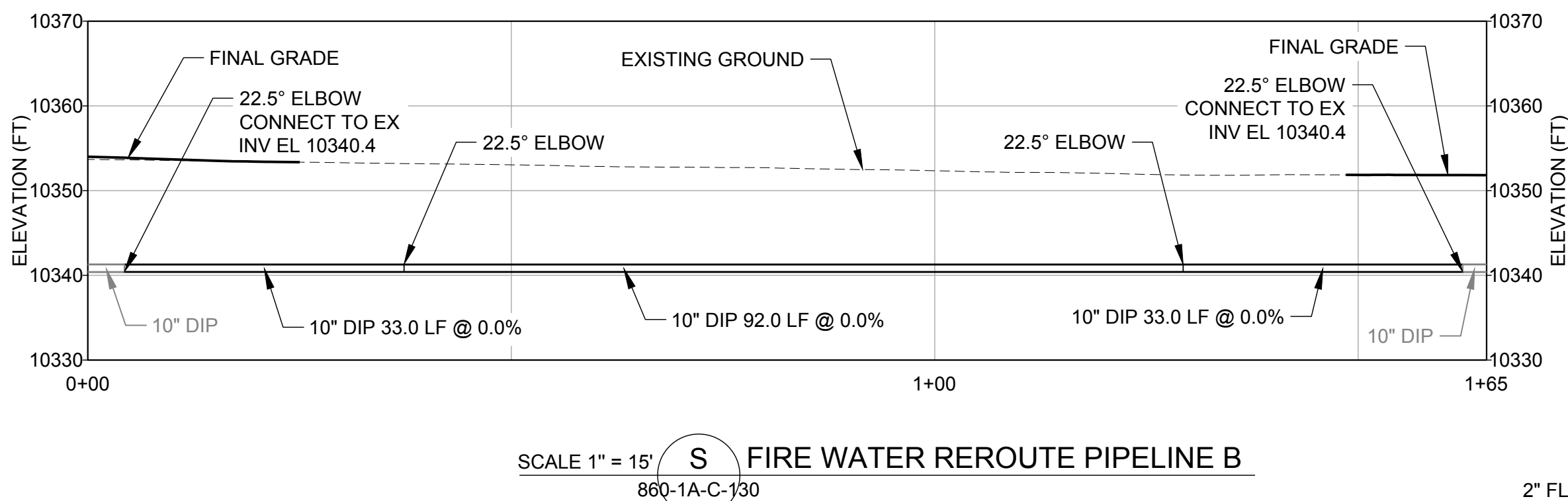
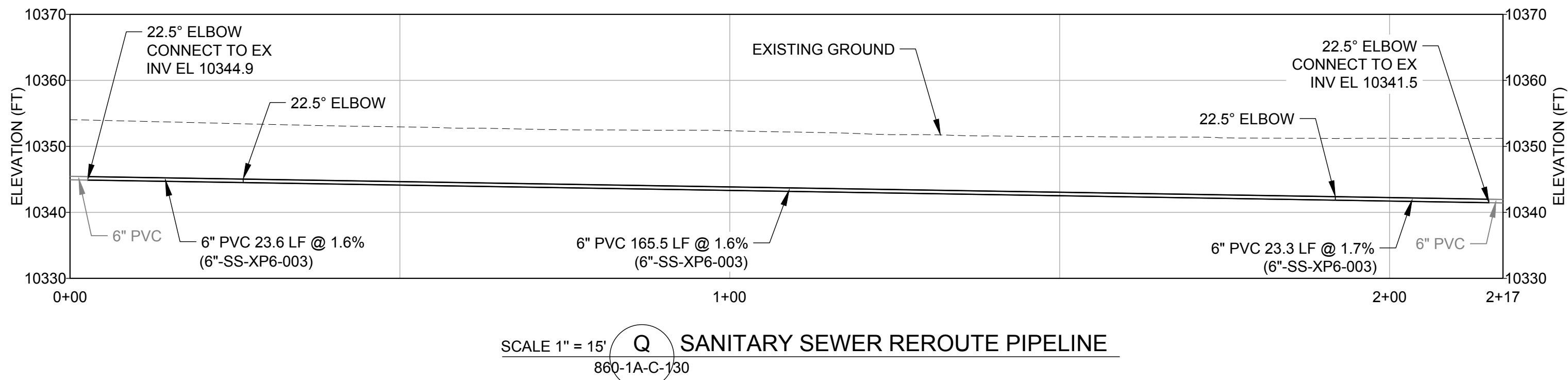
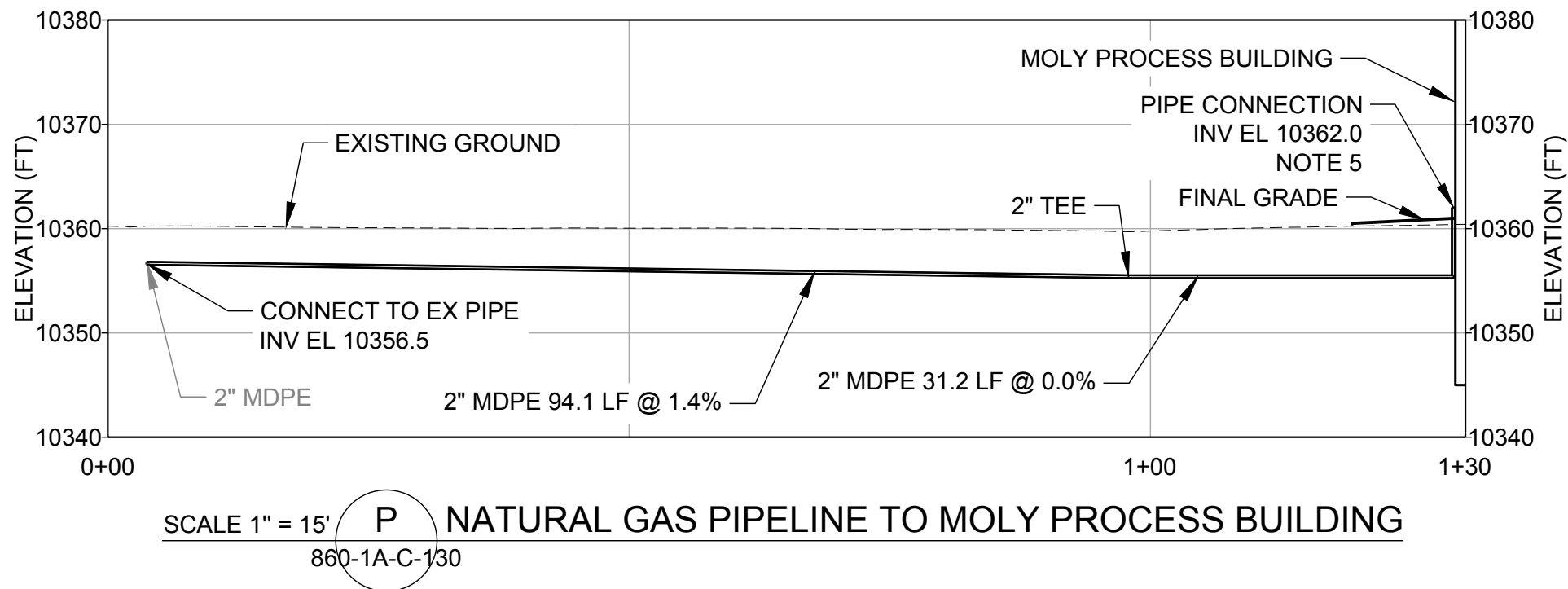
TITLE

**YARD PIPING PROFILES SHEET 2**

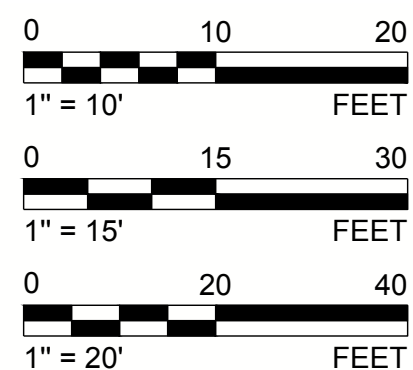
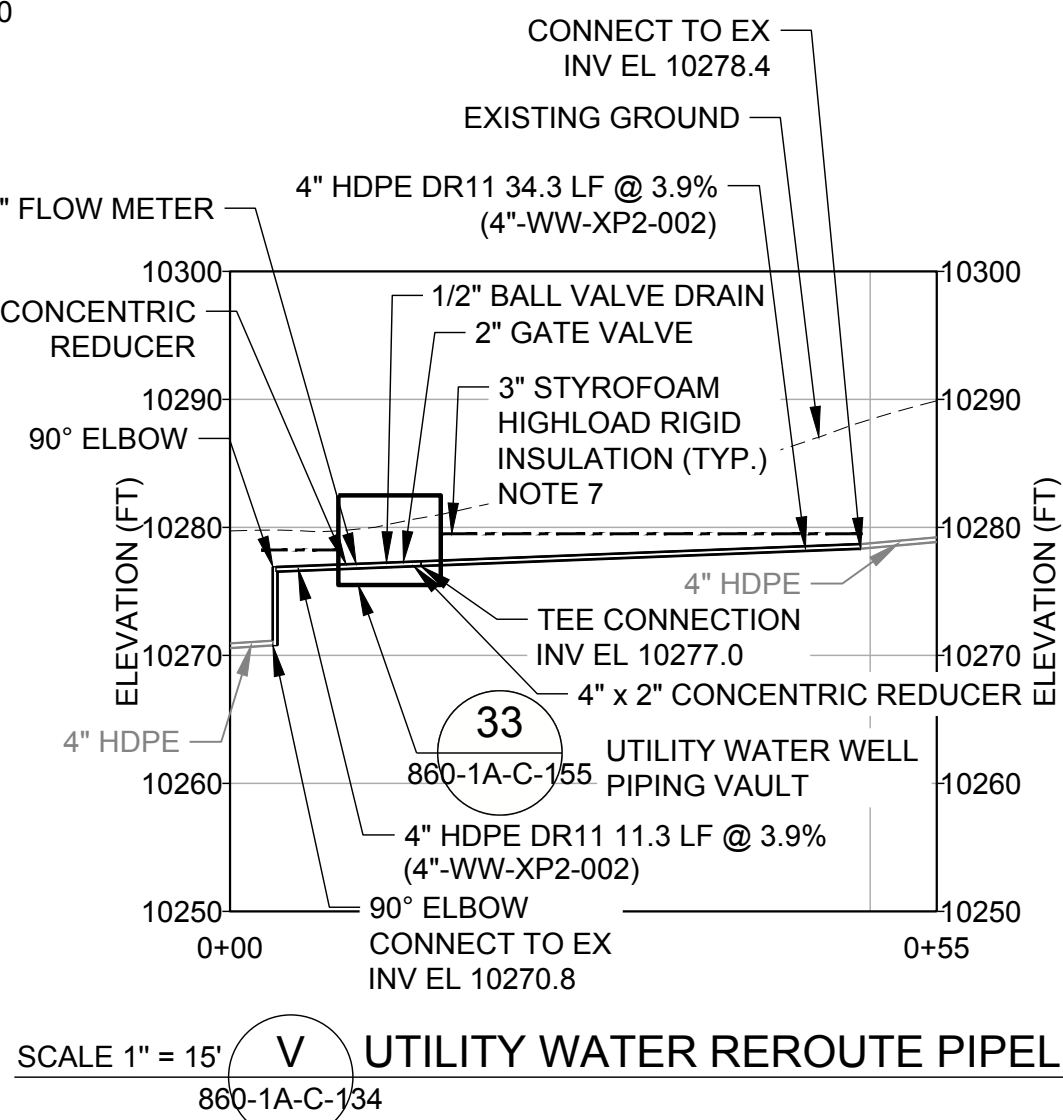
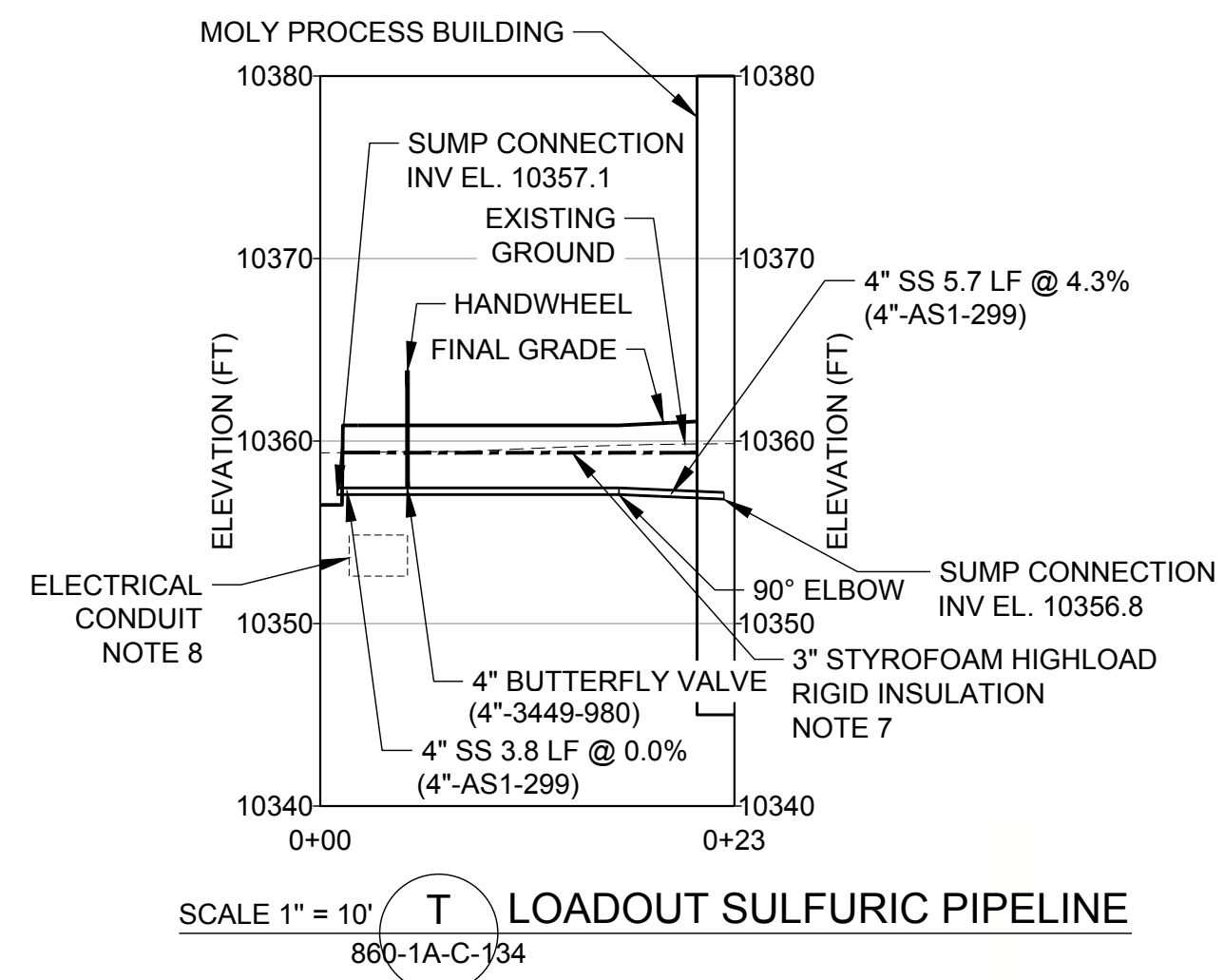
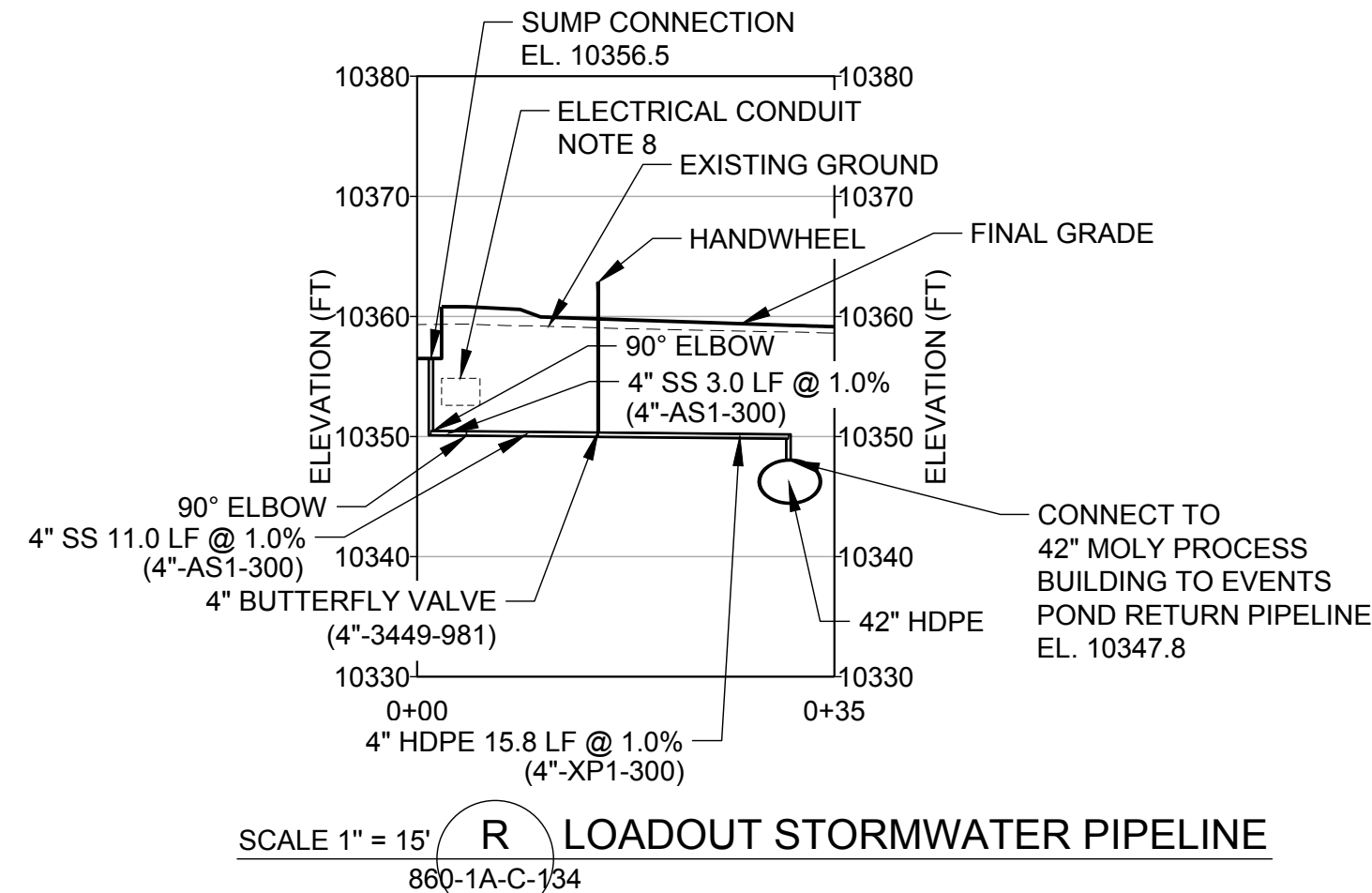
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|-------------|------|----|--------------|
| PROJECT NO. | REV. | of | DRAWING      |
| 1912808404  | 0    |    | 860-1A-C-133 |

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3S/D

Path: \\golder-gfcs-complex\data\office\Denver\asat\PM\WCL\MAX109\_PROJECTS\1912808400-1A-C-134.dwg | File Name: 1912808400-1A-C-134.dwg | Last Edited By: mrosenthal Date: 2022-04-12 Time: 12:25 PM | Printed By: mrosenthal Date: 2022-04-12 Time: 12:33:58 PM



- NOTE(S)**
1. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.
  2. SEE PIPING AND EQUIPMENT DRAWINGS FOR PIPE CONTINUATIONS IN BUILDINGS AND STRUCTURES.
  3. SEE STRUCTURAL DRAWINGS FOR WALL AND FLOOR PENETRATION DETAILS.
  4. ELECTROFUSION CONNECTIONS ARE ACCEPTABLE AT THE LOCATIONS INDICATED AND WHERE OTHERWISE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
  5. SEE MECHANICAL DRAWINGS FOR NATURAL GAS PIPELINE CONNECTION.
  6. VALVE SHALL BE A 4" ACRIS PFA-LINED BUTTERFLY VALVE, 17-4 STAINLESS STEEL SHAFT/DISC OVERMOLDED WITH PFA, VITON BACKUP LINER, MASTIC-COATED FOR BURIED SERVICE, WITH BONNETED EXTENSION, OR OWNER-APPROVED ALTERNATE. EXTENSION SHALL BE STEEL CONSTRUCTION WITH EPOXY COATING FOR BURIED SERVICE. HANDWHEEL GEAR SHALL BE LOCATED 3 ft ABOVE FINAL GRADE.
  7. THE CONTRACTOR SHALL INSTALL INSULATION AT LEAST TWO PANELS WIDE, CENTERED OVER THE PIPE WHEREVER THE PIPE DEPTH IS LESS THAN 9 ft. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
  8. ELECTRICAL CONDUIT SHOWN FOR REFERENCE. REFER TO ELECTRICAL DRAWINGS.



|      |            |                         |          |          |          |          |
|------|------------|-------------------------|----------|----------|----------|----------|
| 0    | 2022-04-12 | ISSUED FOR CONSTRUCTION | BJP      | NKR      | JEO      | EPB      |
| REV. | YYYY-MM-DD | DESCRIPTION             | DESIGNED | PREPARED | REVIEWED | APPROVED |

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FREMONT PASS

CONSULTANT



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USA  
[+1] (303) 980-0540  
www.golder.com

PROJECT

CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

TITLE

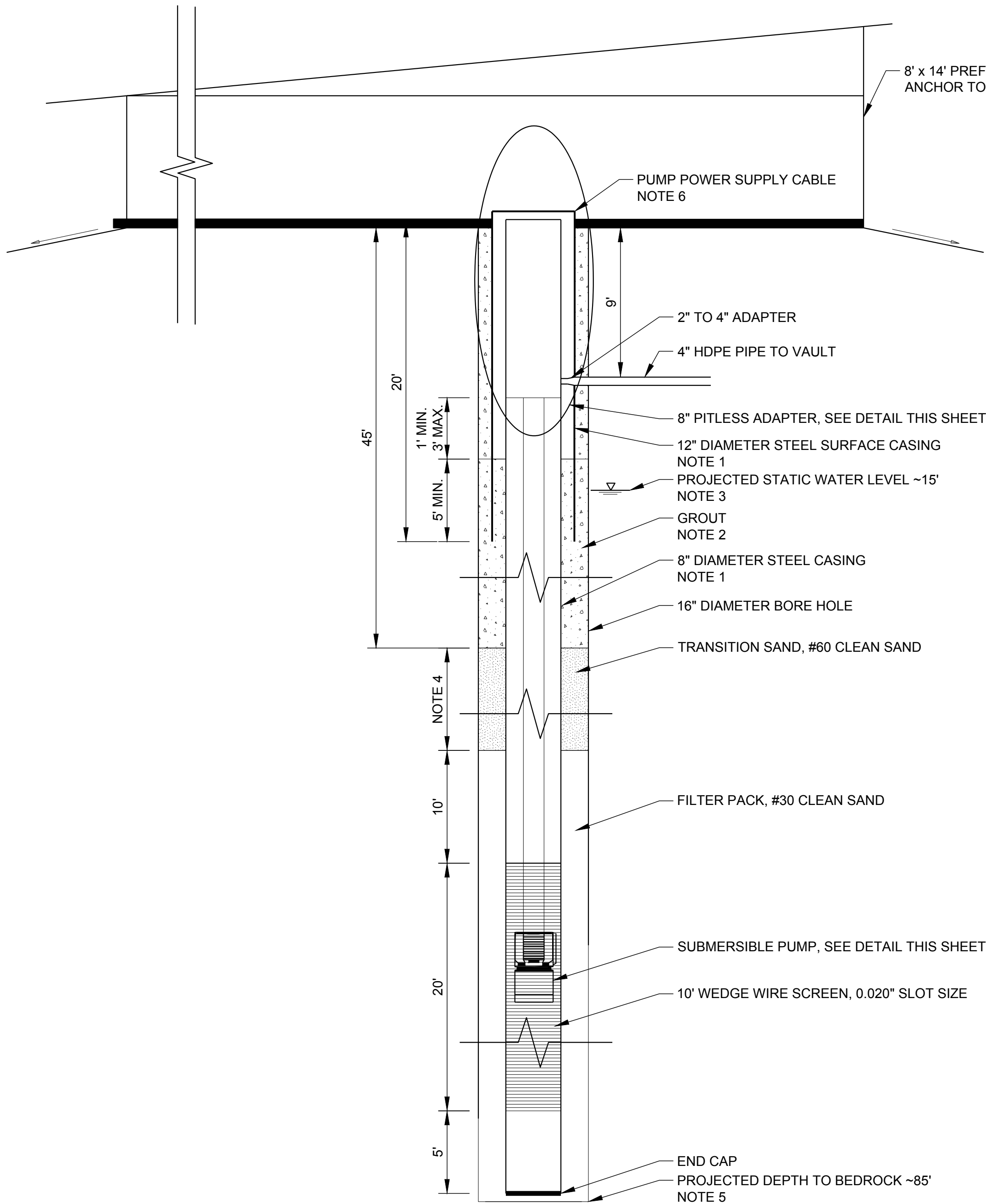
**YARD PIPING PROFILES SHEET 3**

PROJECT NO.  
1912808404

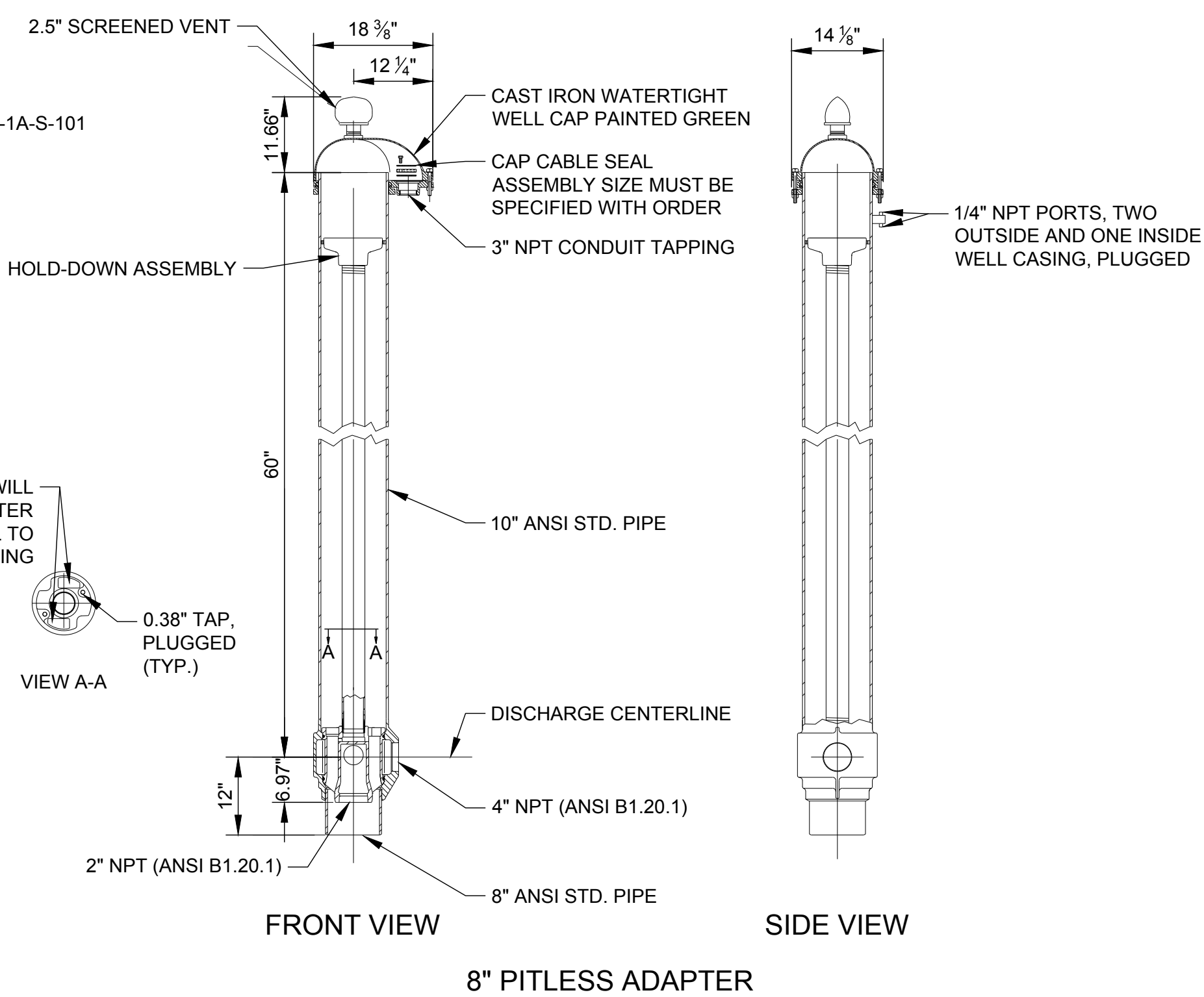
REV. of DRAWING  
0 of 860-1A-C-134

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI D

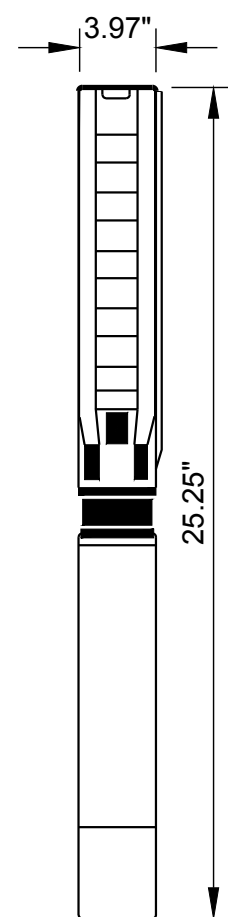
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PRODUCTION WELL (61 GPM) -  
ELEVATION VIEW



PUMP SPECIFICATIONS (NOTE 8):  
PUMP SHOWN IS GRUNDFOS MODEL NO. 77S50-8  
FLOW: 61 GPM  
DISCHARGE SIZE: 2\"/>



SUBMERSIBLE PUMP

- NOTES**
- STEEL CASINGS SHALL BE 304 STAINLESS STEEL WITH A MINIMUM WALL THICKNESS OF 0.188\"/>
  - GROUT SHALL BE NEAT CEMENT OR CEMENT BENTONITE MEETING THE FOLLOWING SPECIFICATIONS:
    - NEAT CEMENT: A SLURRY OF CEMENT AND WATER WITH THE FOLLOWING MIX RATIOS:
      - 7 GALLONS OF WATER PER 94-POUND SACK IF THE SLURRY IS PUMPED INTO THE WELL
      - 6 GALLONS OF WATER PER 94-POUND SACK IF THE SLURRY IS POURED INTO THE ANNULUSFLY ASH MAY BE BLENDED WITH PORTLAND CEMENT FOR GROUTING WELLS. THE WATER-CEMENT RATIO FOR THESE GROUT SLURRIES SHALL NOT EXCEED 5 GALLONS OF WATER PER 86-POUND SACK OF BLENDED CEMENT.
    - CEMENT BENTONITE: A SLURRY OF CEMENT, BENTONITE, AND WATER. THE DRY WEIGHT OF BENTONITE ADDED SHALL NOT EXCEED 8% OF THE CEMENT DRY WEIGHT. THE VOLUME OF ADDED WATER USED IN PREPARING THESE SLURRIES IS LIMITED TO THREE QUARTERS (0.75) OF A GALLON PER 94-POUND SACK OF CEMENT FOR EACH 1% OF BENTONITE ADDED.
  - THE STATIC WATER LEVEL SHALL BE MEASURED IN THE FIELD.
  - WELL COMPLETION MATERIAL MAY VARY AS DETERMINED IN THE FIELD.
  - THE BOTTOM OF THE WELL AND FINAL PLACEMENT OF THE SCREEN WILL BE DETERMINED IN THE FIELD BASED ON LITHOLOGY AND DEPTH TO WATER.
  - PUMP POWER SUPPLY SHALL BE CORE DRILLED AS NECESSARY.
  - THE CONTRACTOR SHALL FILE THE WELL CONSTRUCTION, PUMP INSTALLATION, AND WELL TEST REPORTS TO MEET STATE REGULATIONS.
  - THE PUMP SHALL BE THE MODEL SHOWN OR AN OWNER-APPROVED ALTERNATE.

|      |            |                         |          |          |          |          |  |
|------|------------|-------------------------|----------|----------|----------|----------|--|
|      |            |                         |          |          |          |          |  |
|      |            |                         |          |          |          |          |  |
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| 0    | 2022-04-12 | ISSUED FOR CONSTRUCTION | DBS      | JR       | JEO      | EPB      |  |
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PROJECT

CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

TITLE

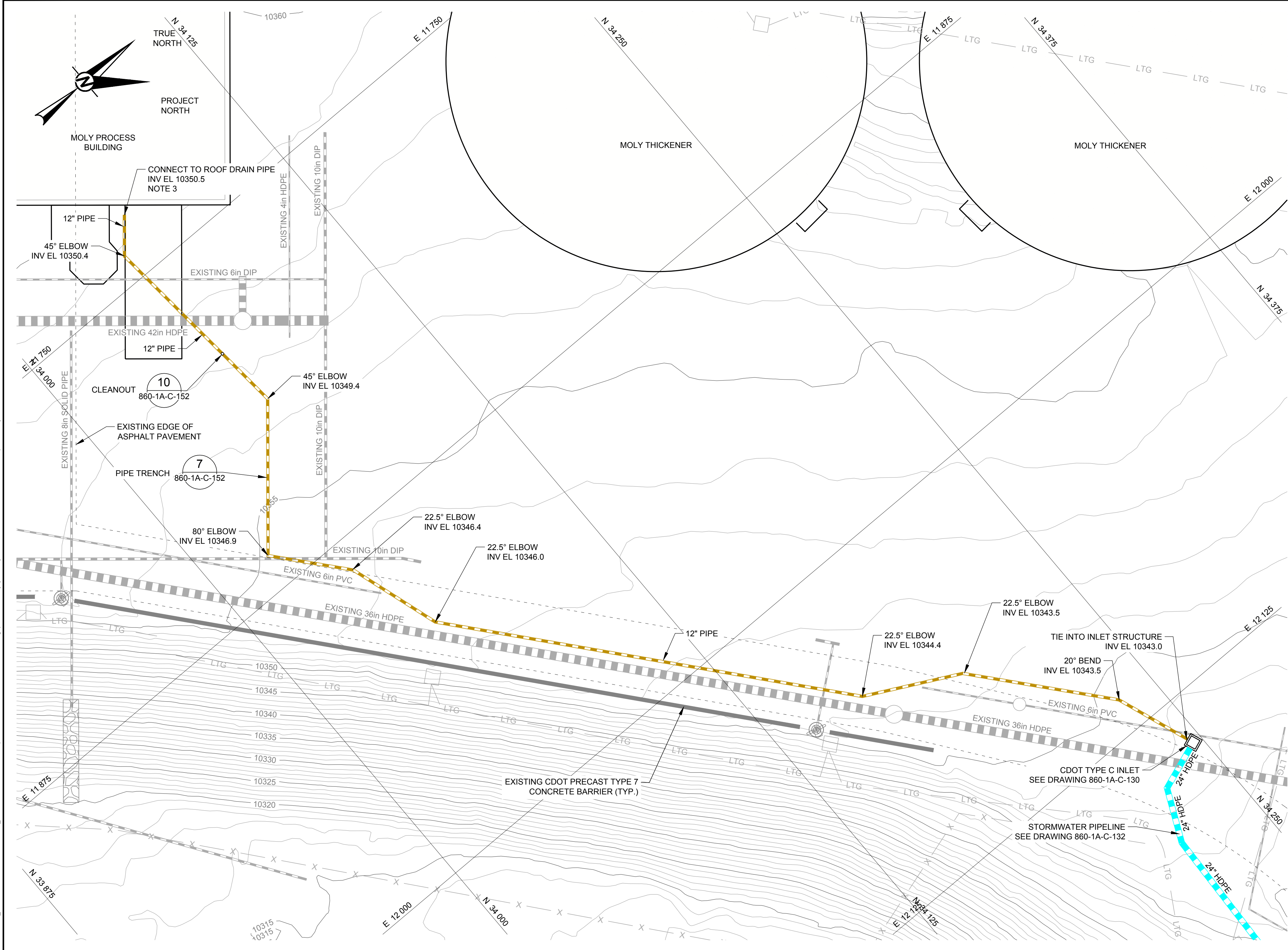
UTILITY WATER WELL DETAILS

PROJECT NO.  
1912808404

REV. of DRAWING  
0 of 840-1A-C-135

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI D

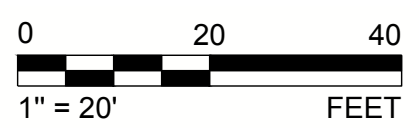
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- NOTE(S)**
1. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.
  2. ROOF DRAIN PIPE SHALL BE ADS N-12, WATERTIGHT WITH SMOOTH INTERIOR WALL, OR APPROVED EQUAL.
  3. REFER TO MECHANICAL DRAWINGS FOR CONTINUATION. CONTRACTOR SHALL USE A TRANSITION COUPLING APPROVED BY THE OWNER'S REPRESENTATIVE.
  4. THIS DRAWING USES COLOR TO DEPICT SPECIFIC DESIGN ELEMENTS. THEREFORE, IF IT IS NOT PLOTTED OR PRODUCED WITH COLOR, THOSE ELEMENTS MAY NOT COME ACROSS AS DESIGNED.

**LEGEND**

ROOF DRAIN - 12 in PIPE



|      |            |                         |          |          |          |          |
|------|------------|-------------------------|----------|----------|----------|----------|
| 0    | 2022-04-12 | ISSUED FOR CONSTRUCTION | NKR      | BJP      | JEO      | EPB      |
| REV. | YYYY-MM-DD | DESCRIPTION             | PREPARED | DESIGNED | REVIEWED | APPROVED |

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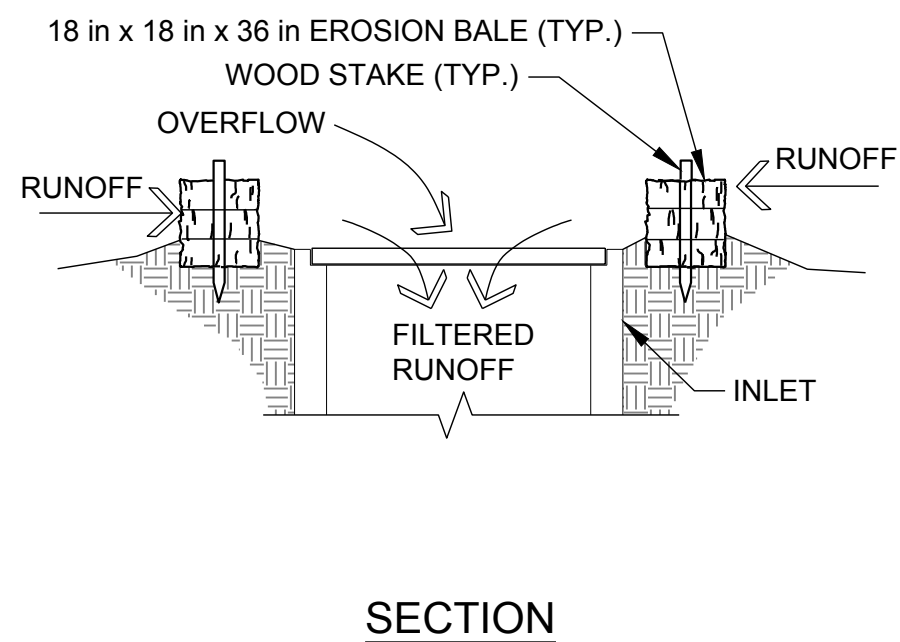
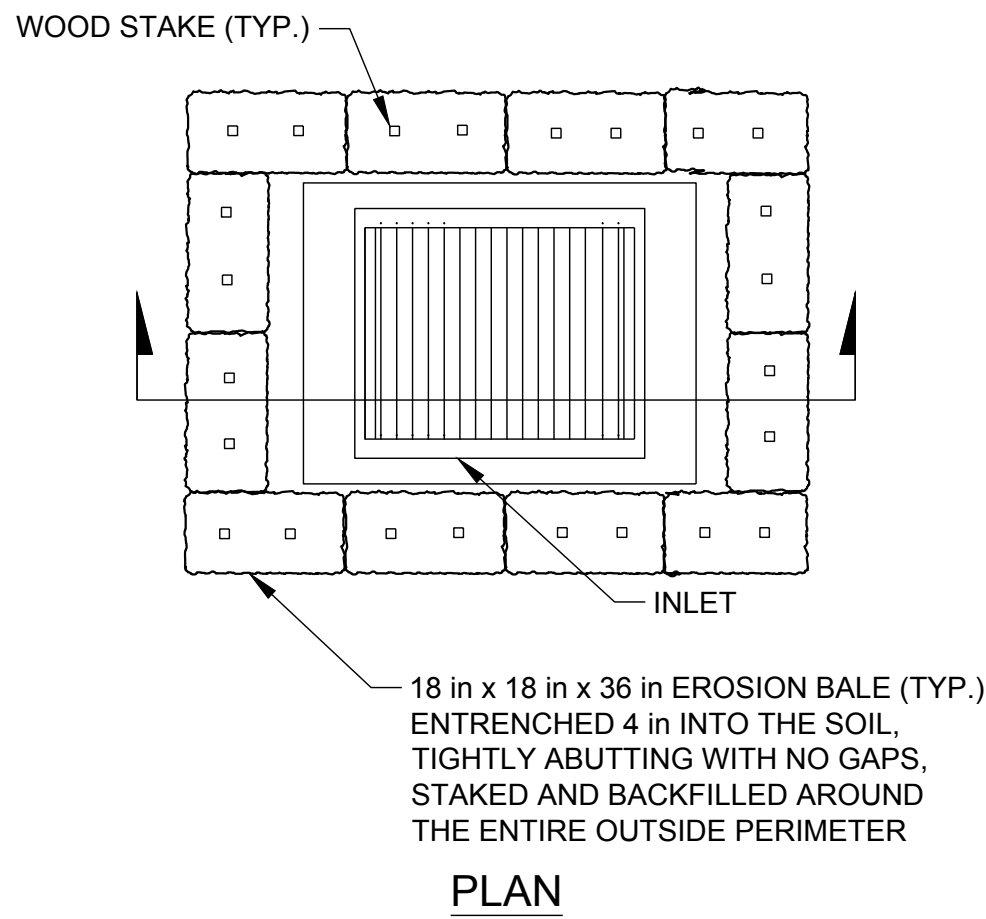
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MEMBER OF WSP

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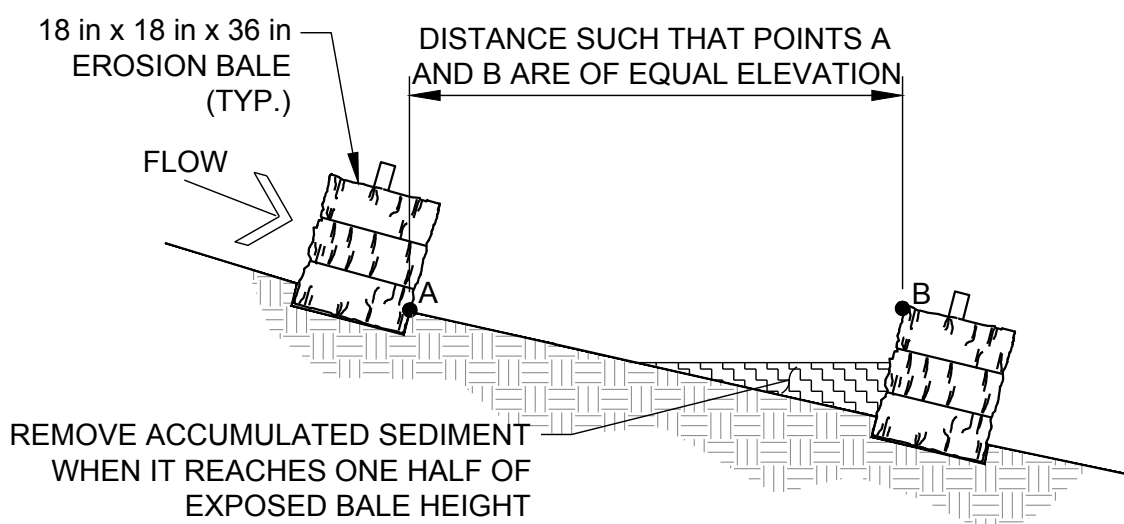
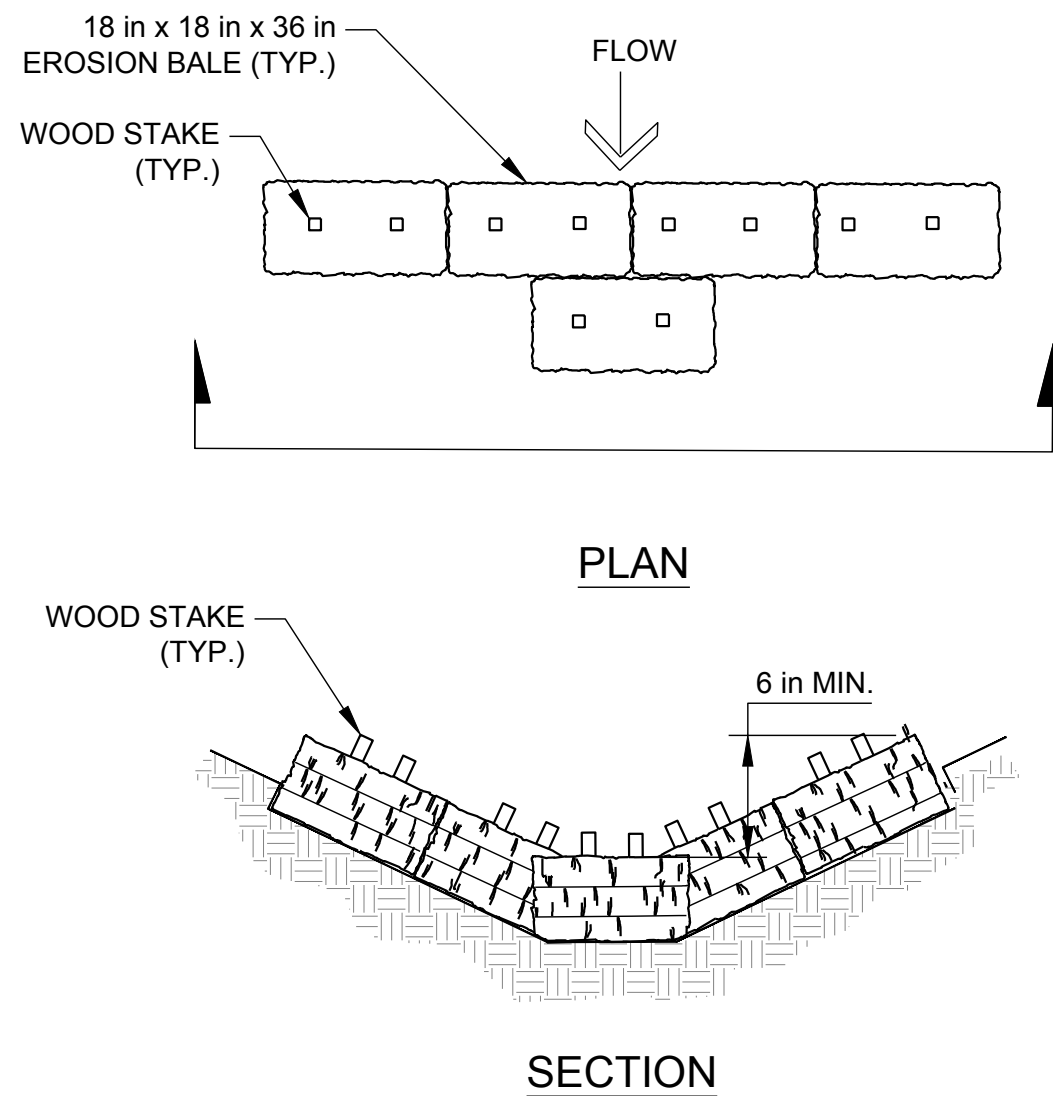
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| PROJECT     | CLIMAX MINE<br>MOLYBDENUM REMOVAL WATER TREATMENT PLANT |
| TITLE       | <b>MOLY PROCESS BUILDING ROOF DRAIN SYSTEM</b>          |
| PROJECT NO. | 1912808404                                              |
| REV.        | 0                                                       |
| of          |                                                         |
| DRAWING     | 860-1A-C-140                                            |

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3/D

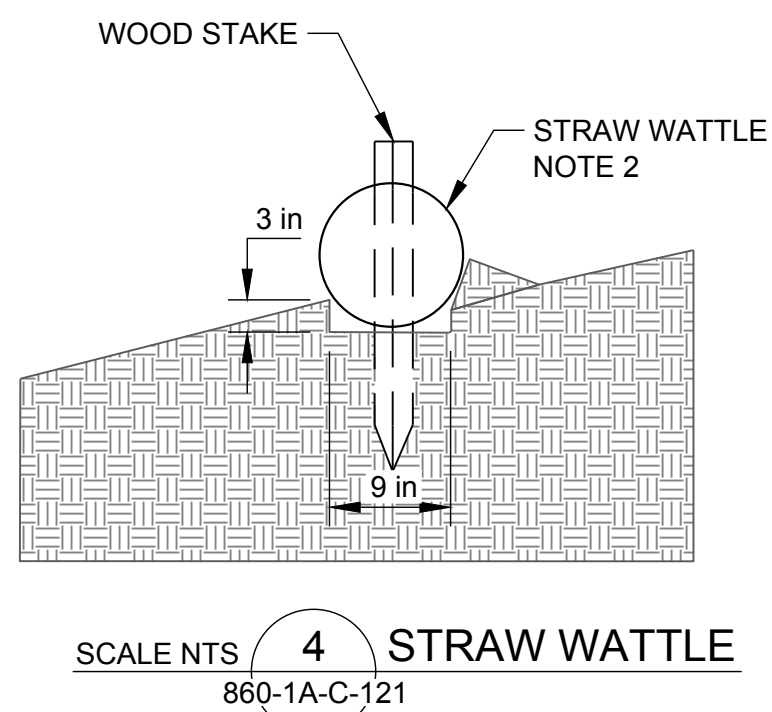
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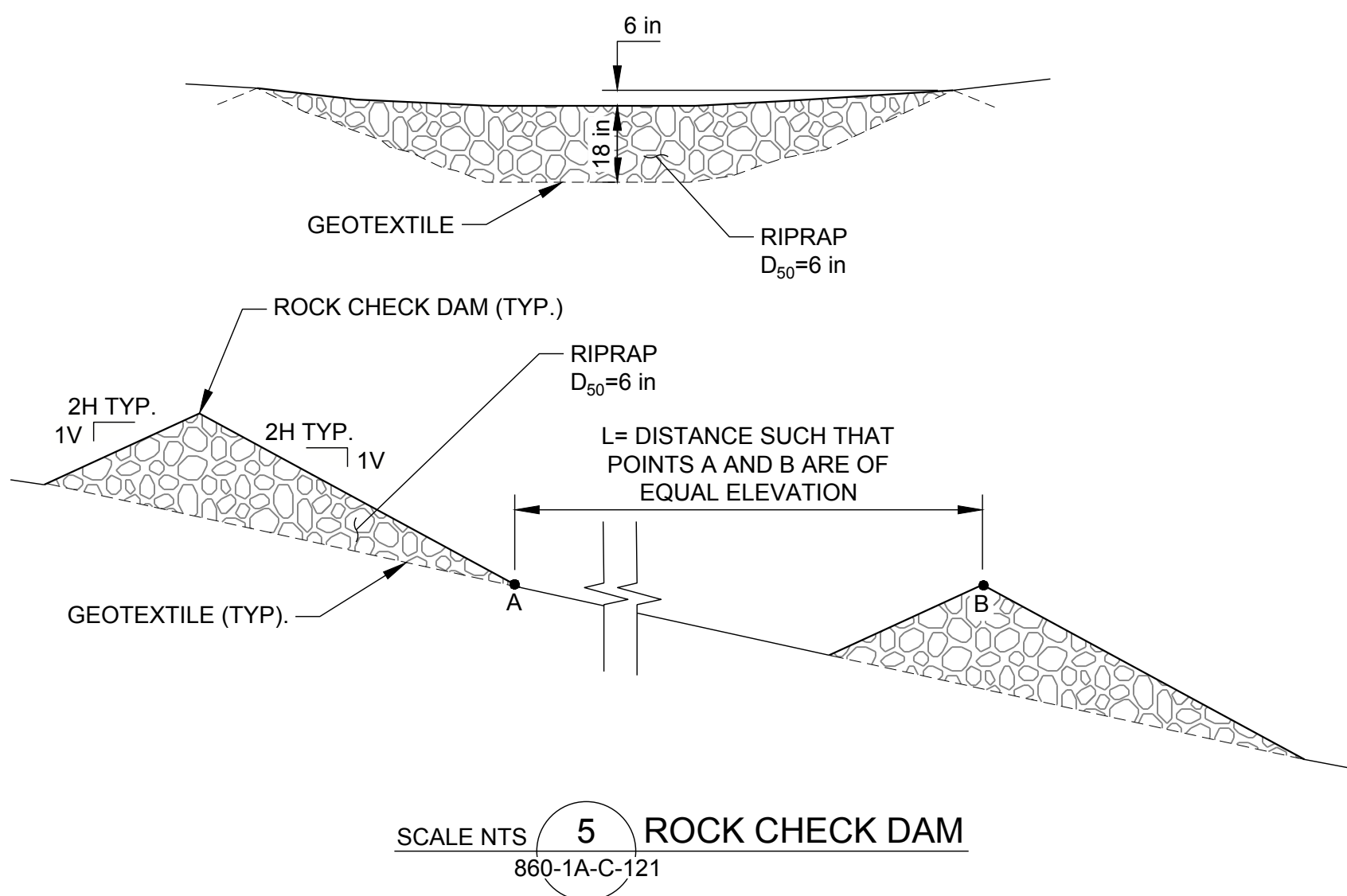
SCALE NTS **1** INLET EROSION BALES FILTER  
860-1A-C-121



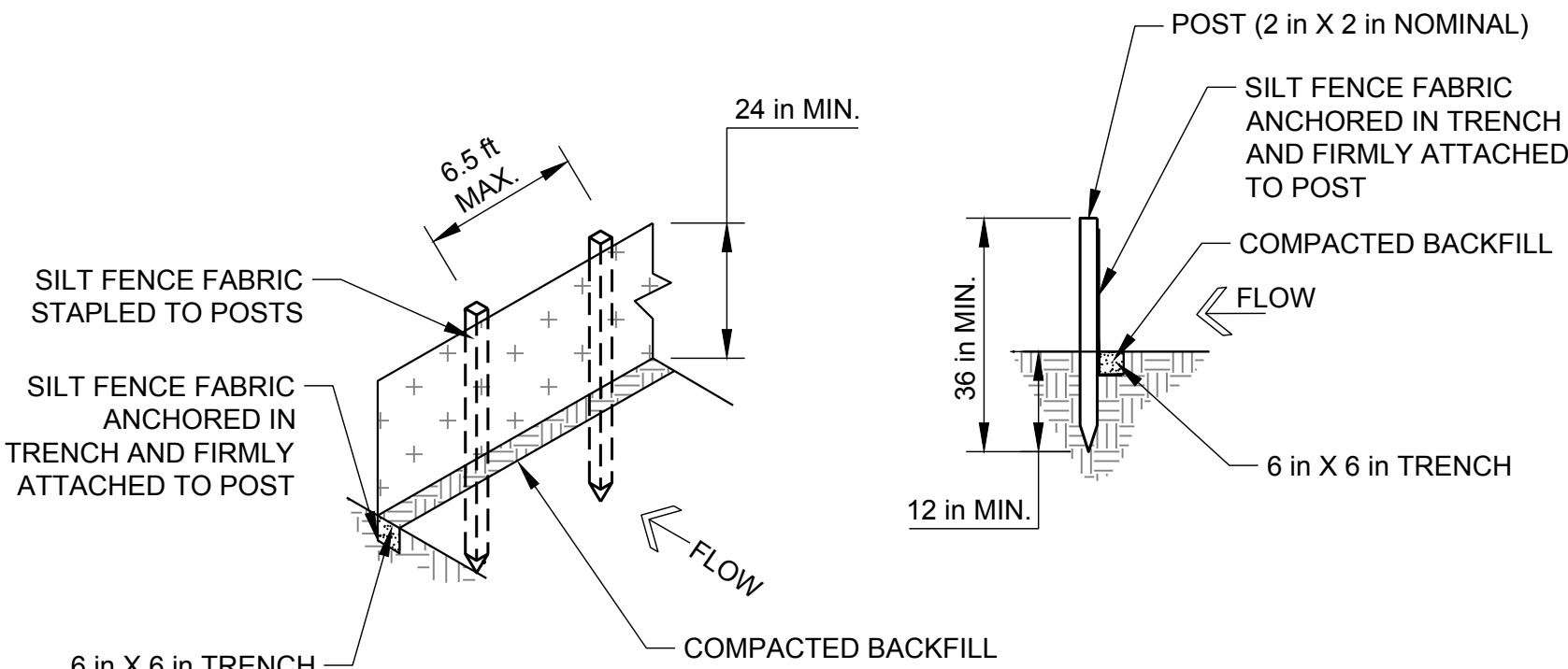
SCALE NTS **2** EROSION BALES  
860-1A-C-121



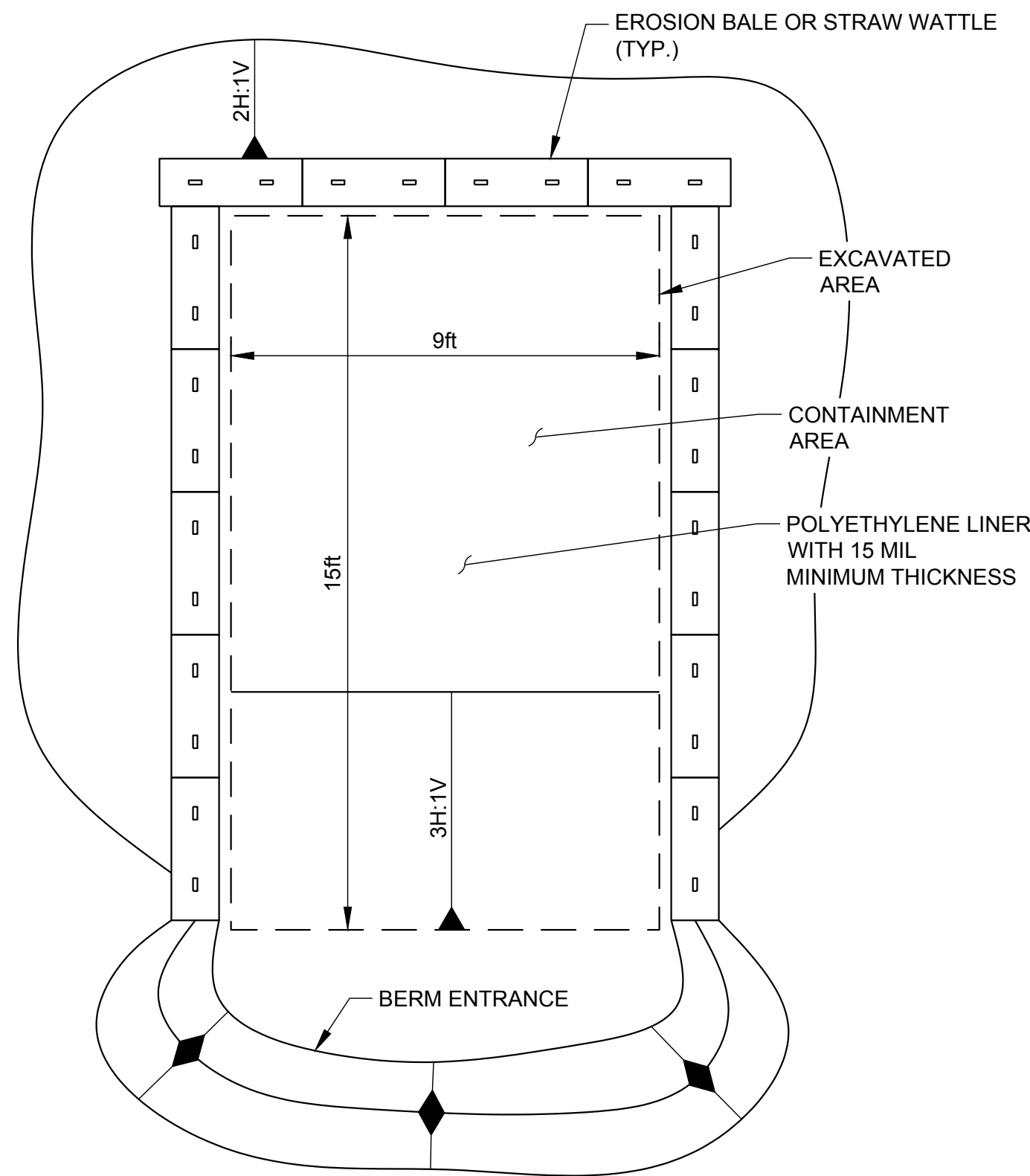
SCALE NTS **4** STRAW WATTLE  
860-1A-C-121



SCALE NTS **5** ROCK CHECK DAM  
860-1A-C-121



SCALE NTS **3** SILT FENCE  
860-1A-C-121



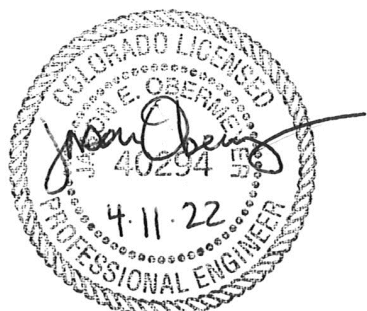
NOTE:  
PROPERLY CLEAN UP AND DISPOSE OF WASHOUT  
AT APPROPRIATE LOCATION AFTER CONSTRUCTION.

SCALE NTS **6** CONCRETE WASHOUT  
860-1A-C-121

NOTE(S)

1. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.
2. WHERE STRAW WATTLES MEET, THEY SHALL BE INSTALLED IN DIRECT CONTACT WITH A MINIMUM 1 ft OVERLAP. BEGIN INSTALLING STRAW WATTLES BY EXCAVATING A 3 in DEEP BY 9 in WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UPSLOPE FROM THE TRENCH. SECURE STRAW WATTLES WITH 24 in LONG WOOD STAKES EVERY 4 ft AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE STRAW WATTLE, LEAVING AT LEAST 3 in OF STAKE EXTENDING ABOVE THE STRAW WATTLE.

SEAL



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PROJECT

CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

TITLE

**CIVIL DETAILS SHEET 1**

PROJECT NO.  
**1912808404**

REV.

**0**

of

**0**

DRAWING

**860-1A-C-151**

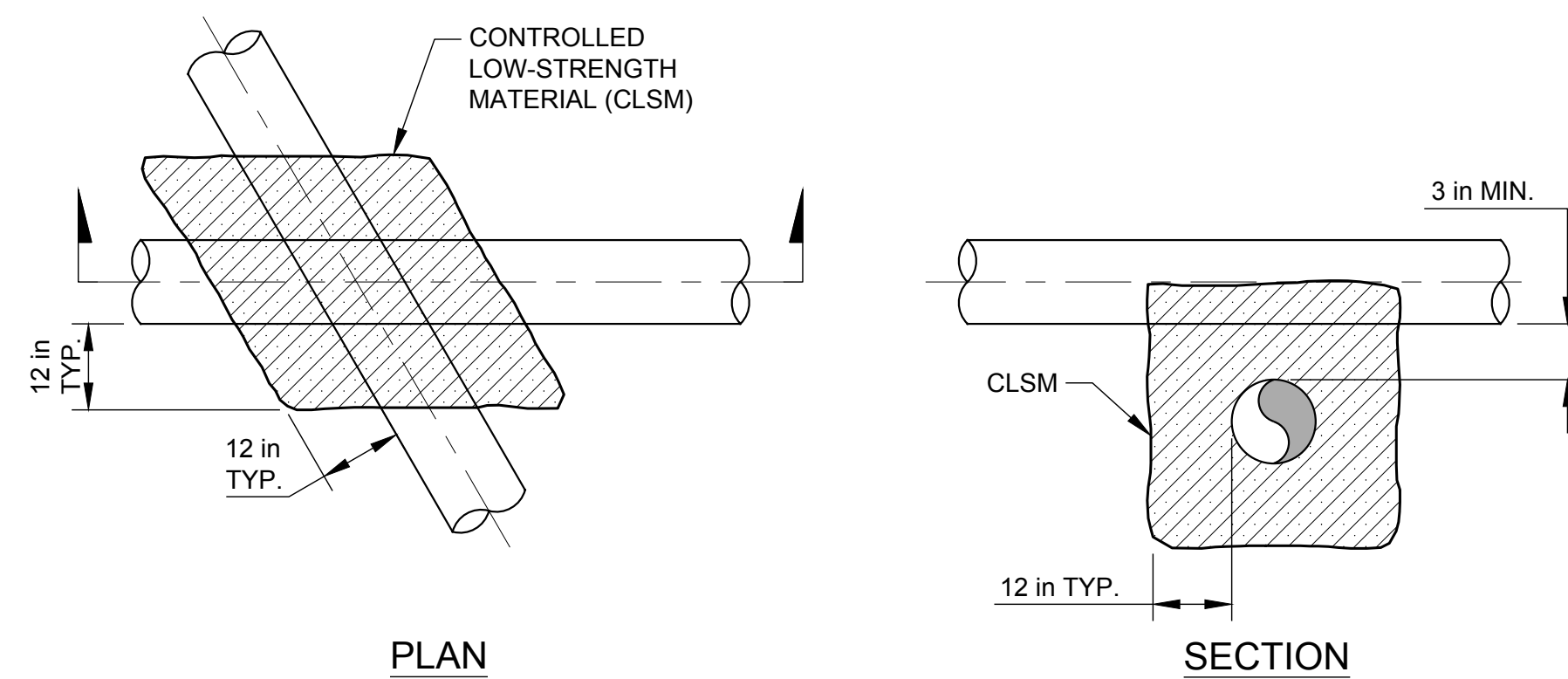
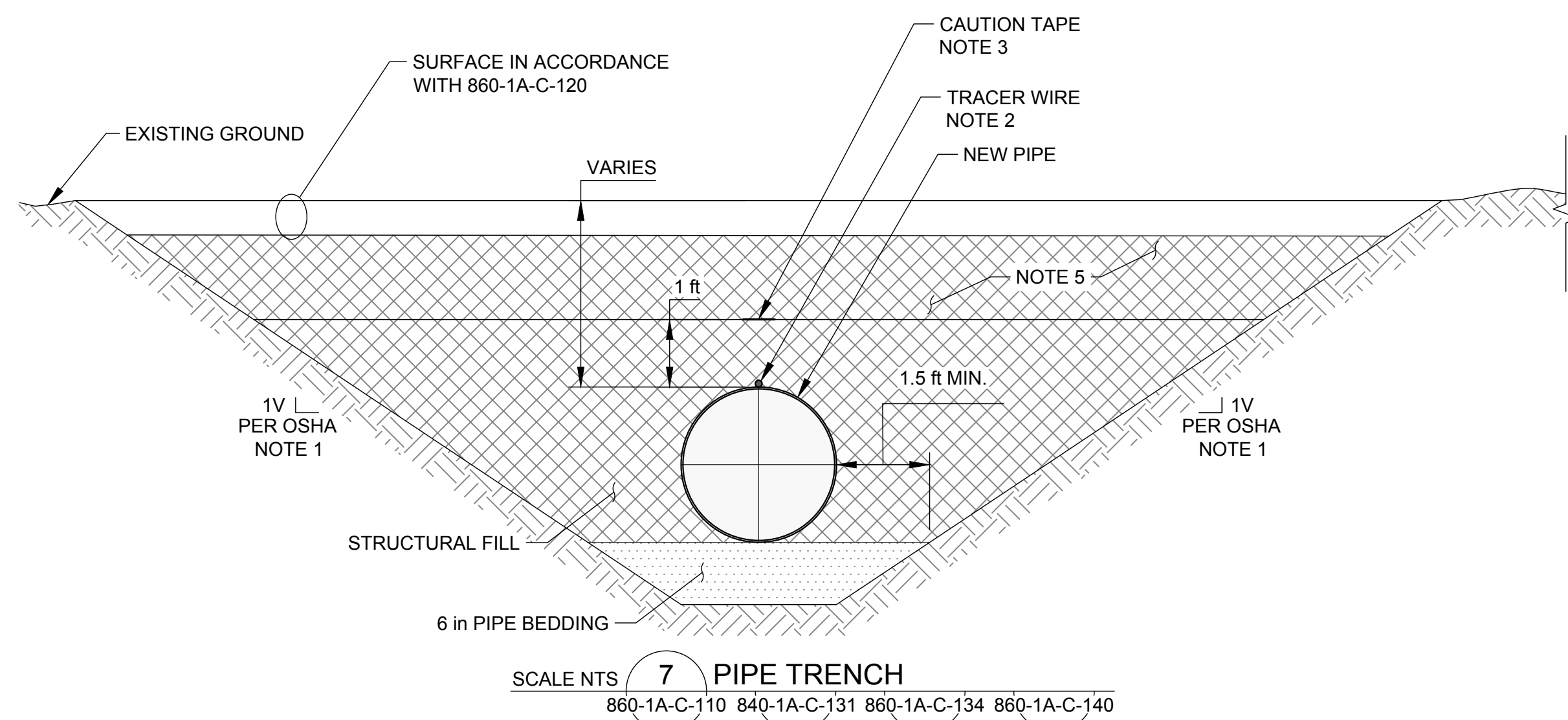
0 2022-04-12 ISSUED FOR CONSTRUCTION

REV. YYYY-MM-DD DESCRIPTION

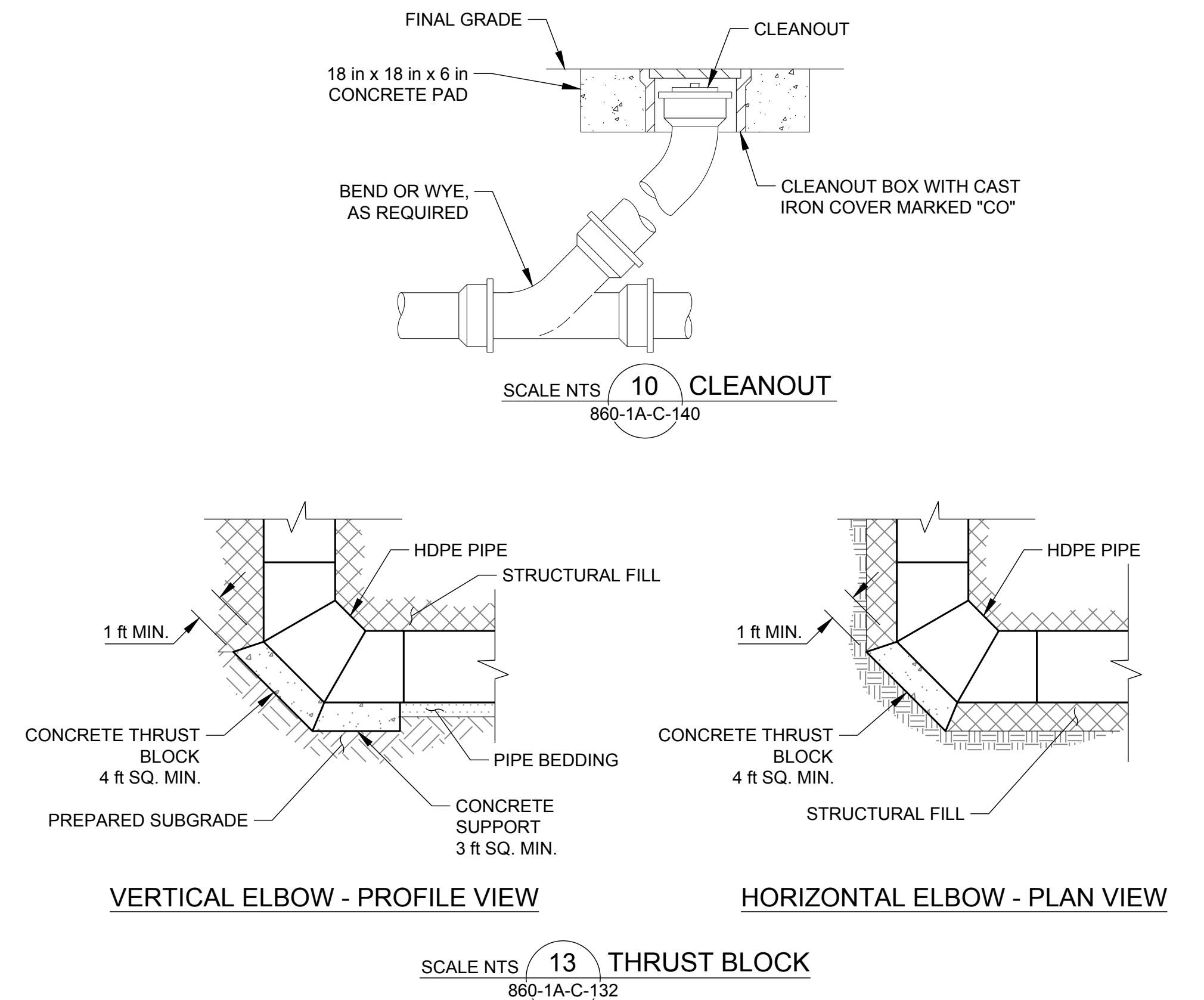
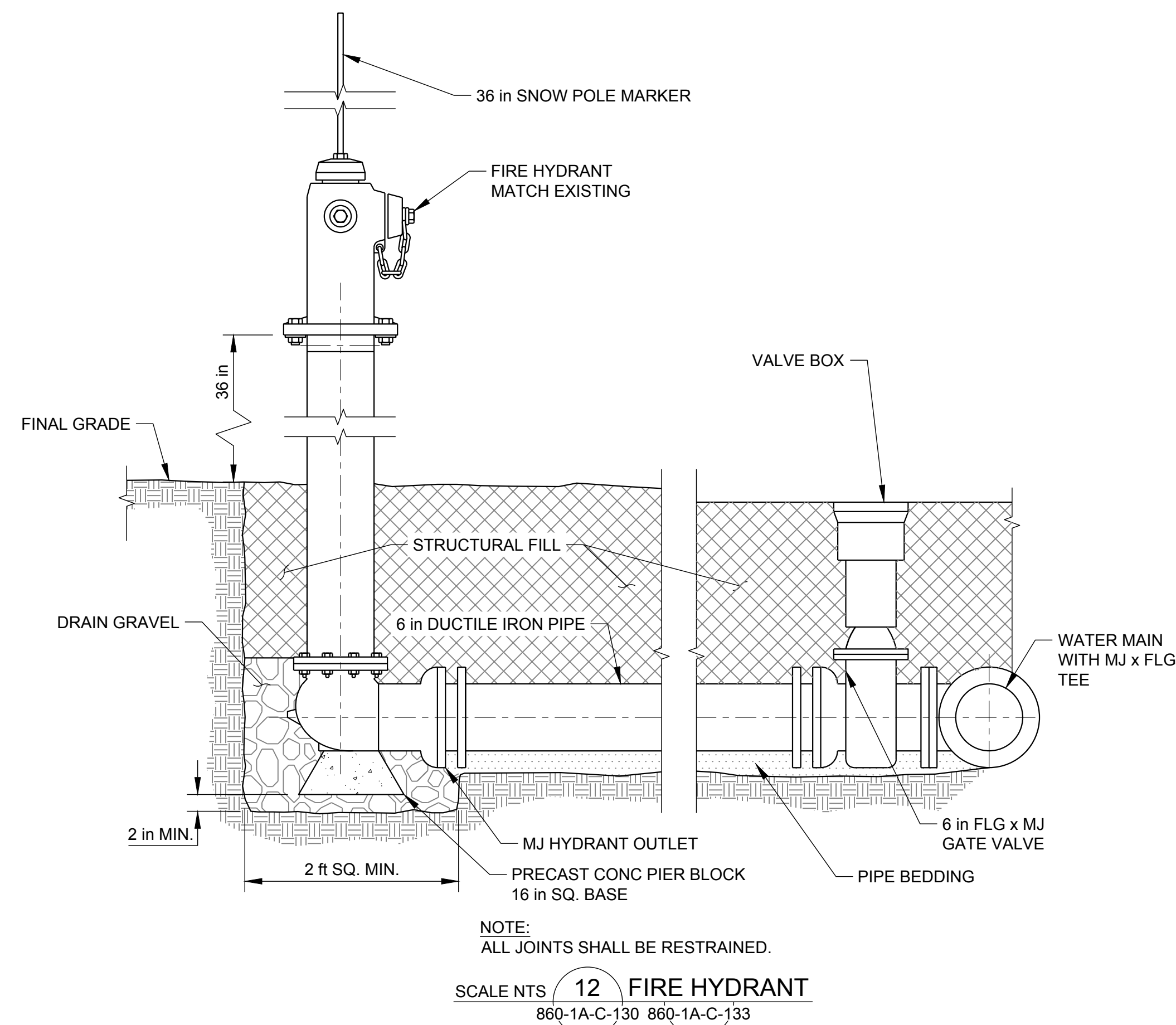
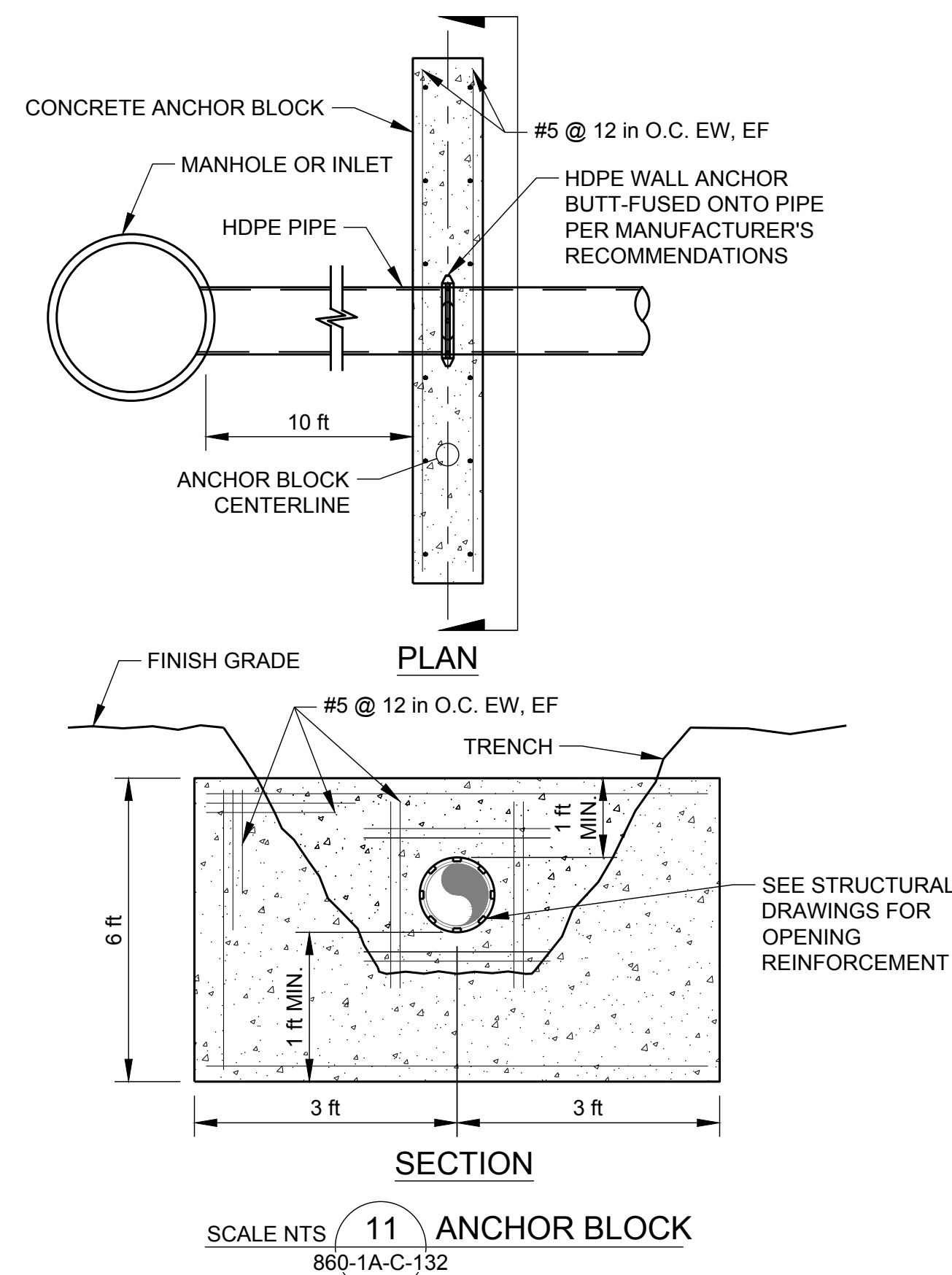
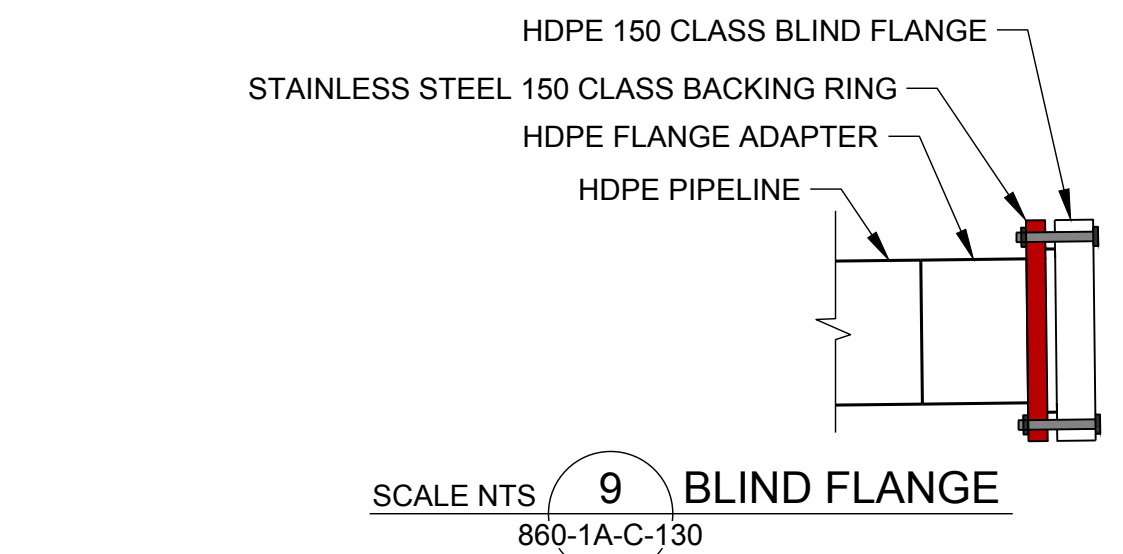
NKR NKR JEO EPB

PREPARED DESIGNED REVIEWED APPROVED

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D



- NOTES:**  
CLSM SUPPORT IS REQUIRED:
1. WHEN BOTH PIPELINES ARE NEW AND CLEARANCE BETWEEN THEM IS LESS THAN 12 in.
  2. WHEN A NEW PIPELINE IS CROSSING OVER AN EXISTING PIPELINE AND THE CLEARANCE BETWEEN THEM IS LESS THAN 12 in.
  3. AT ALL PIPE CROSSINGS WHERE A NEW PIPELINE IS CROSSING UNDER AN EXISTING PIPELINE.
  4. AT LOCATIONS WHERE A PIPELINE AND A SANITARY SEWER PIPELINE ARE CLOSER THAN 10 ft.
  5. REFER TO SPECIFICATION SECTION 31 00 00 FOR CLSM REQUIREMENTS.

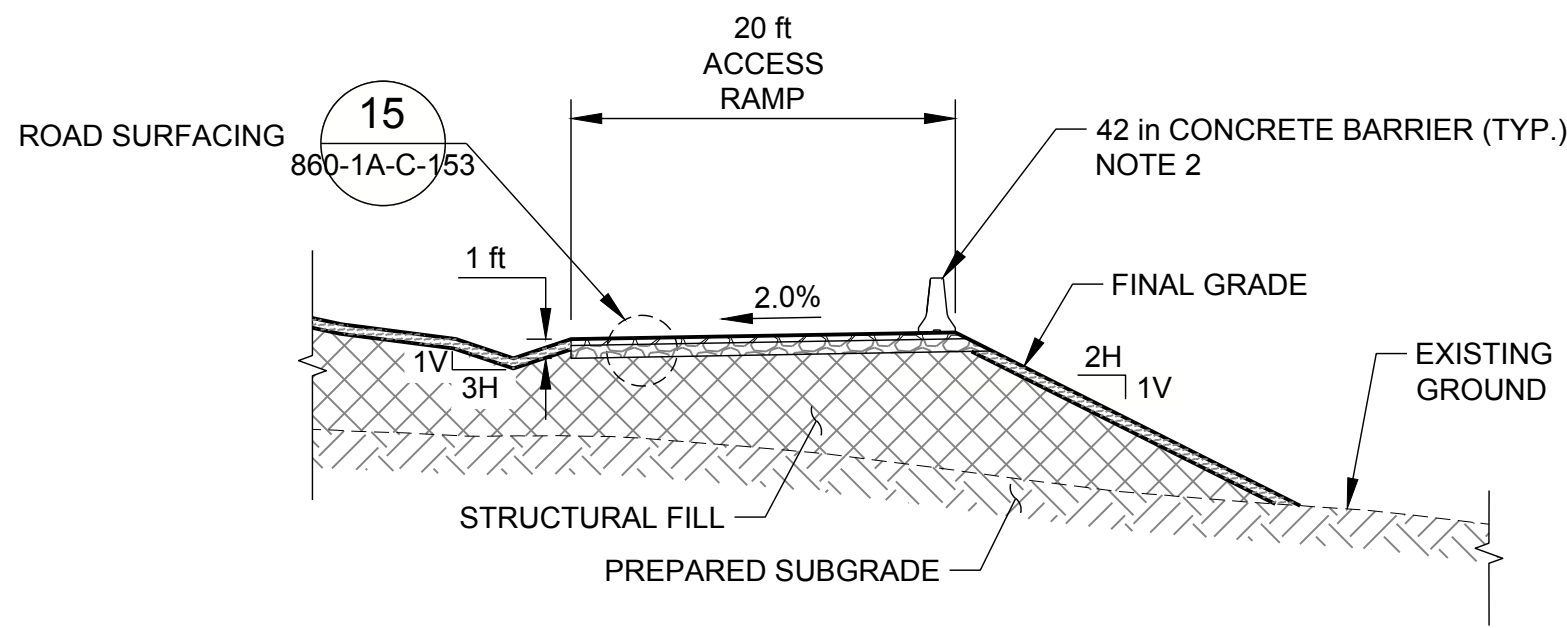


**NOTE(S)**

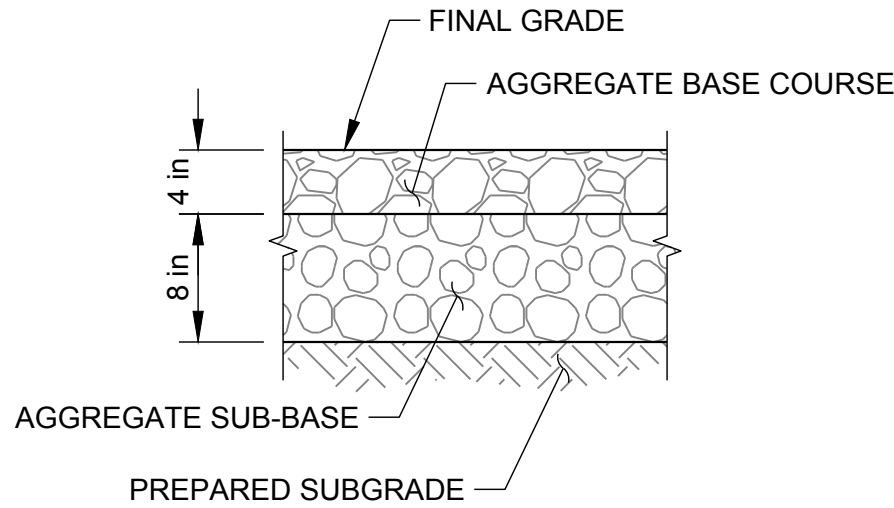
1. SHORING MAY BE USED IN ACCORDANCE WITH APPLICABLE REGULATIONS INSTEAD OF SLOPING. MINIMUM WIDTH OF TRENCH ON EACH SIDE OF PIPE SHALL BE 1.5 ft.
2. SECURE COPPER-CLAD STEEL TRACER WIRE TO THE TOP OF PIPE ON APPROXIMATE 10-ft CENTERS. USE COPPERHEAD SNAKEBITE CONNECTORS OR OWNER-APPROVED EQUIVALENT. TERMINATE EACH END USING AN AT-GRADE TRACER WIRE TERMINATION AND GROUND STATION, SUCH AS COPPERHEAD SNAKE PIT OR OWNER-APPROVED ALTERNATE.
3. CAUTION TAPE SHALL BE YELLOW FOR GAS PIPING AND GREEN FOR ALL OTHER PIPING.
4. REFER TO DRAWING 860-1A-C-102 FOR LEGEND AND ABBREVIATIONS.
5. BACKFILL IN THE ZONE BETWEEN THE BASE OF SURFACING AND 1 ft ABOVE THE TOP OF THE PIPE MAY BE EMBANKMENT FILL IN AREAS TO RECEIVE GRAVEL SURFACING AS SHOWN ON DRAWING 860-1A-C-120. THIS DOES NOT APPLY IN AREAS TO RECEIVE ROAD SURFACING.



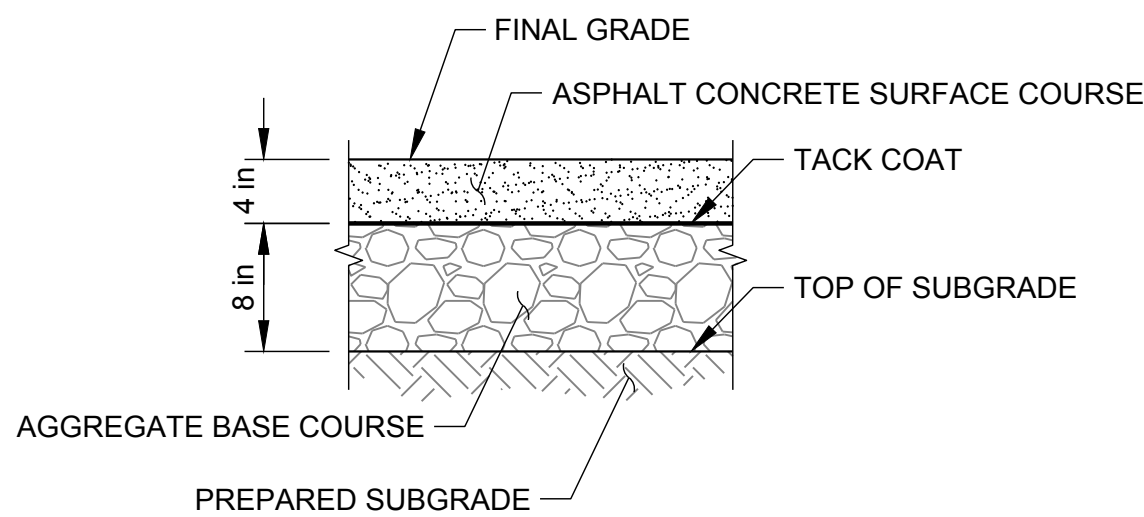
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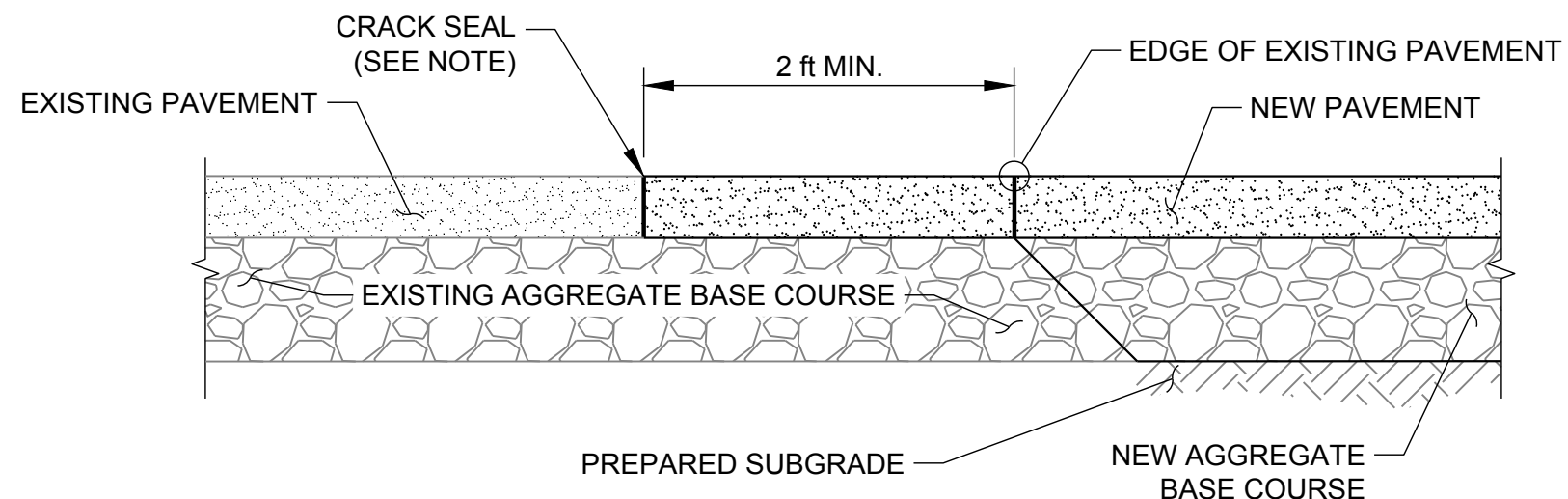
SCALE NTS **14** MOLY WATER TREATMENT PAD ACCESS RAMP  
860-1A-C-115



SCALE NTS **15** ROAD SURFACING  
860-1A-C-117 860-1A-C-120 860-1A-C-155

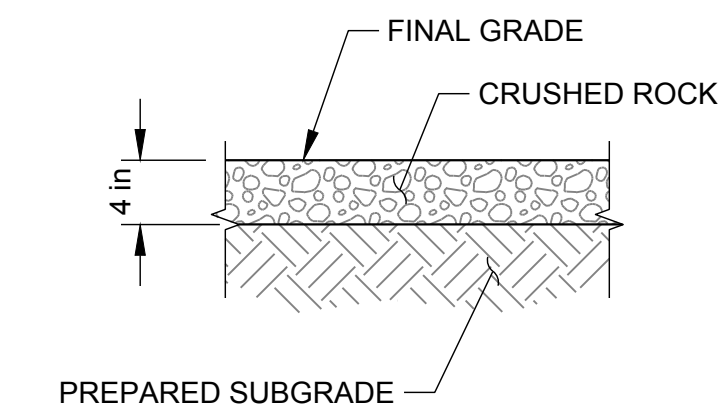


SCALE NTS **16** ASPHALT CONCRETE PAVEMENT  
860-1A-C-117 860-1A-C-120

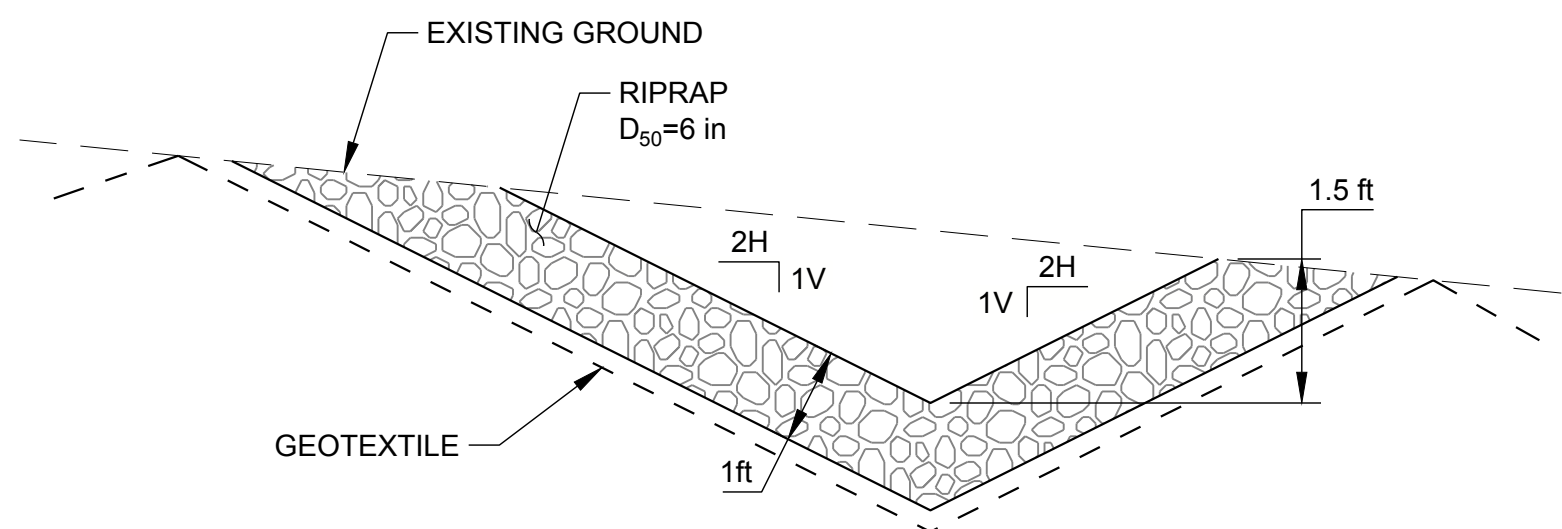


NOTE:  
SAW CUT EXISTING PAVEMENT AND PAINT EDGE WITH TACK COAT PRIOR TO PAVING. CRACK SEAL JOINT AFTER PAVING OPERATION HAS BEEN COMPLETED.

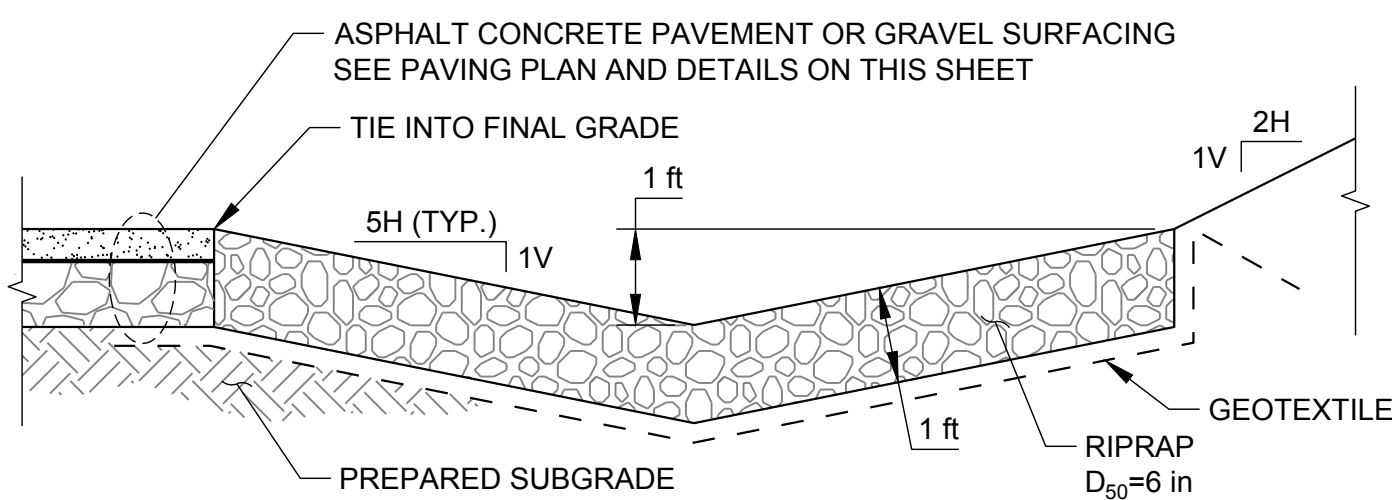
SCALE NTS **17** PAVEMENT CONNECTION  
860-1A-C-120



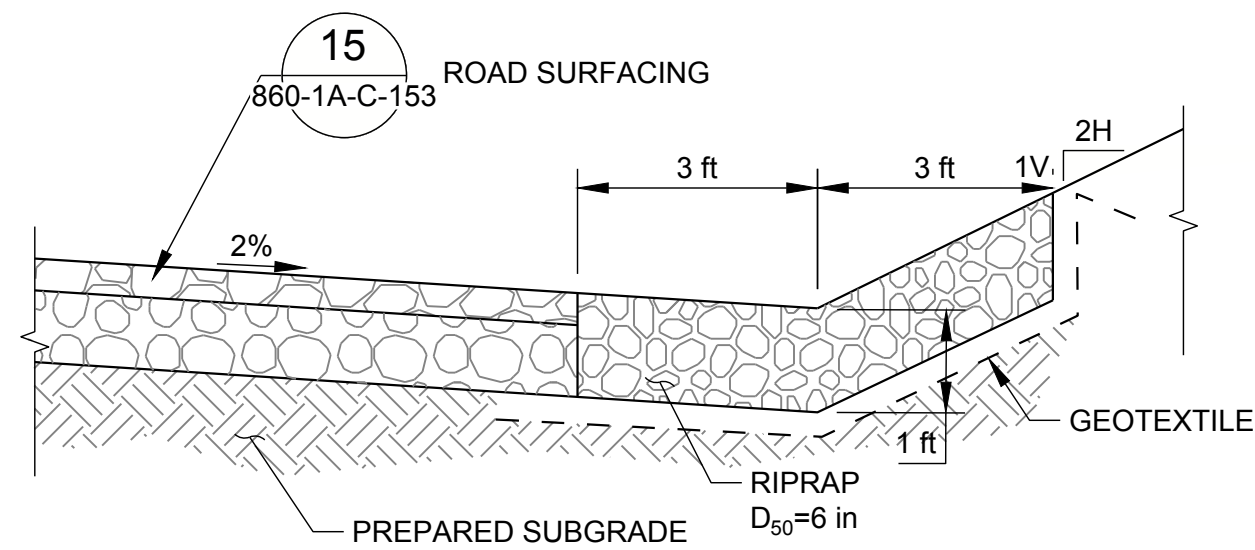
SCALE NTS **18** GRAVEL SURFACING  
860-1A-C-117 860-1A-C-120



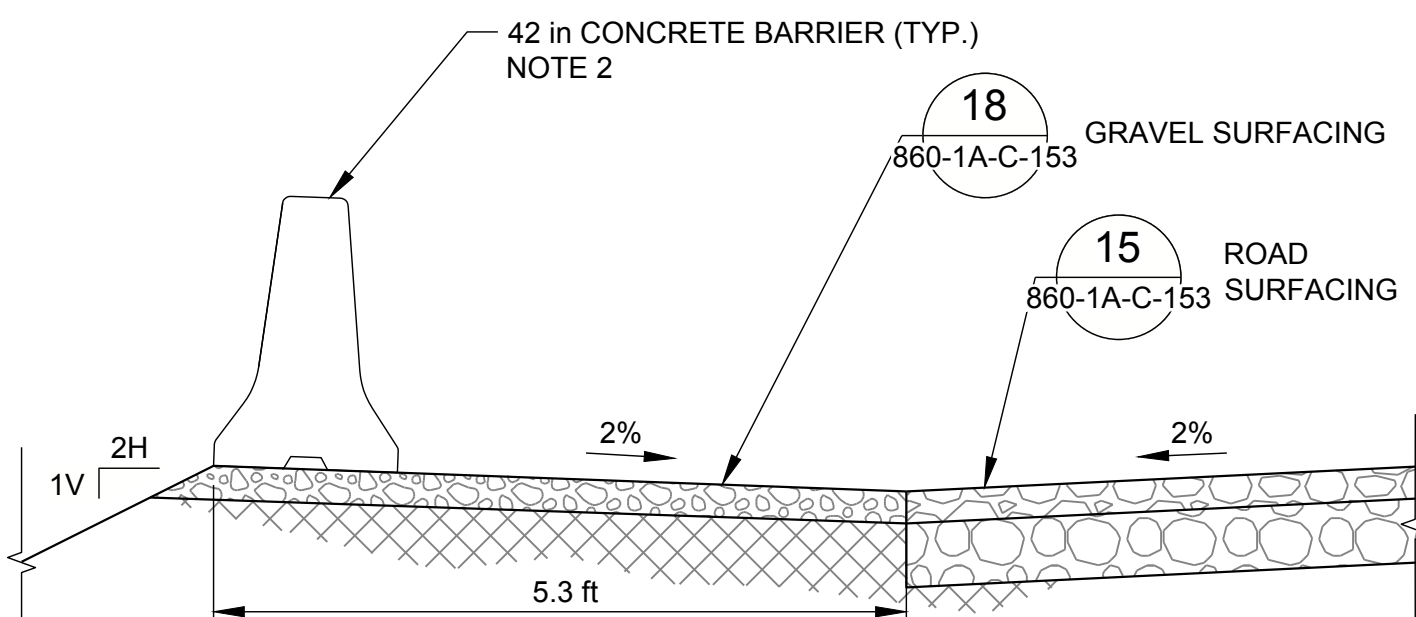
SCALE NTS **19** WEST CHANNEL  
860-1A-C-115 860-1A-C-117



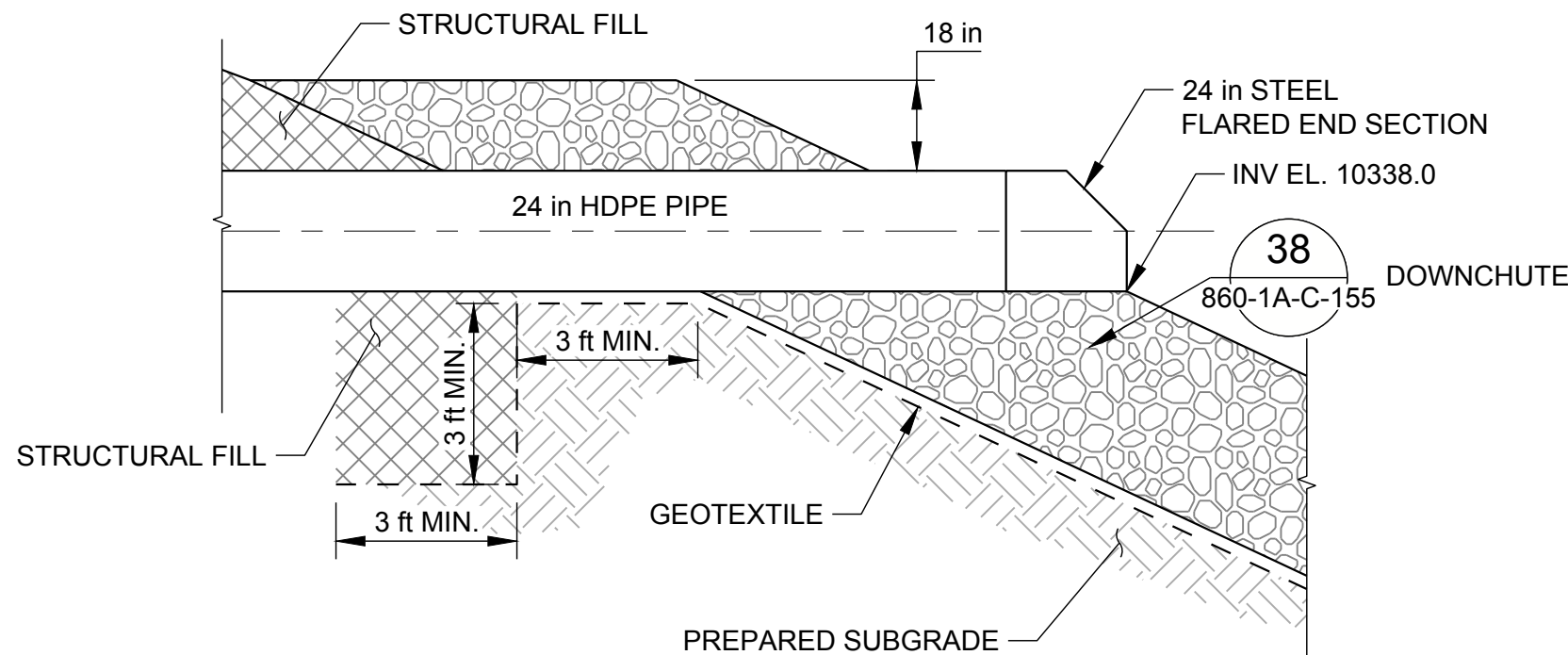
SCALE NTS **20** MOLY WATER TREATMENT PAD TOE SWALE  
860-1A-C-115 860-1A-C-117



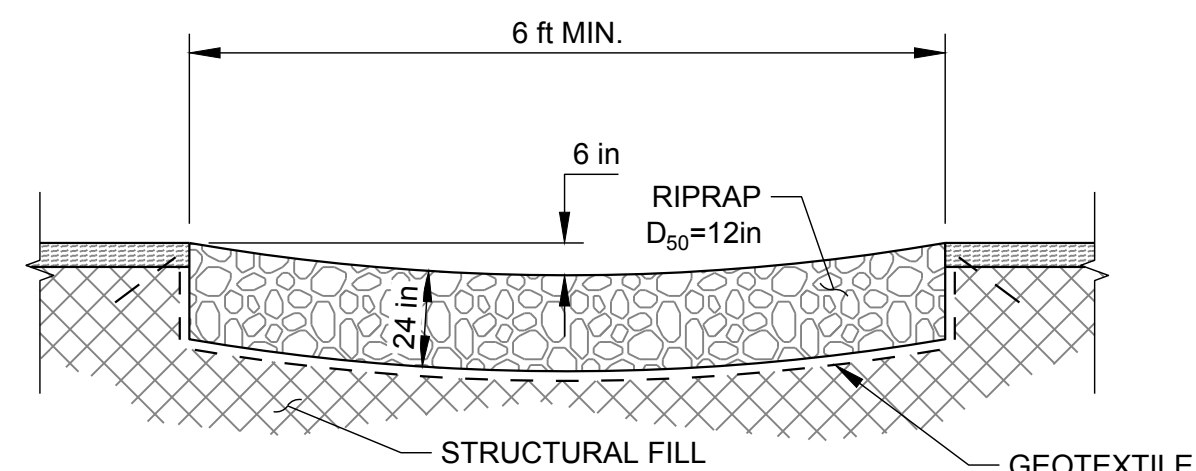
SCALE NTS **21** WEST MOLY WATER TREATMENT PAD SWALE  
860-1A-C-115 860-1A-C-117



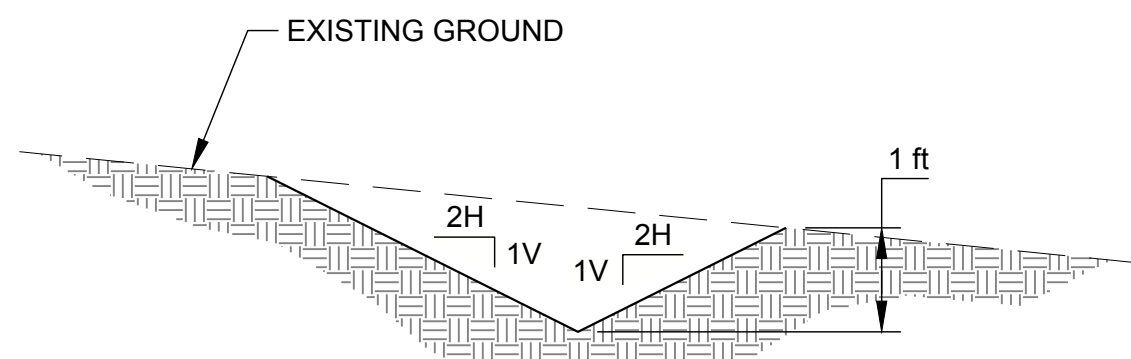
SCALE NTS **22** EAST MOLY WATER TREATMENT PAD SWALE  
860-1A-C-115 860-1A-C-117



SCALE NTS **23** STORMWATER PIPE OUTLET  
860-1A-C-115



SCALE NTS **24** RIPRAP ARMORING  
860-1A-C-115



SCALE NTS **25** ABSORPTION FIELD SWALE  
860-1A-C-115

SEAL



CLIENT

**Climax Molybdenum**  
A Freeport-McMoRan Company

CLIMAX, COLORADO  
FREMONT PASS

CONSULTANT



DENVER OFFICE  
7425 W. ALASKA DR. STE 200  
LAKEWOOD, CO. 80226  
USA  
[+1] (303) 980-0540  
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PROJECT

CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

TITLE

**CIVIL DETAILS SHEET 3**

PROJECT NO.  
**1912808404**

REV.

**0**

of

**0**

DRAWING

**860-1A-C-153**

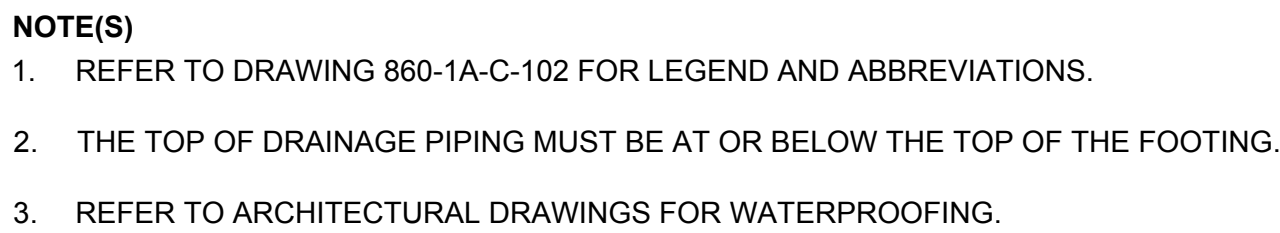
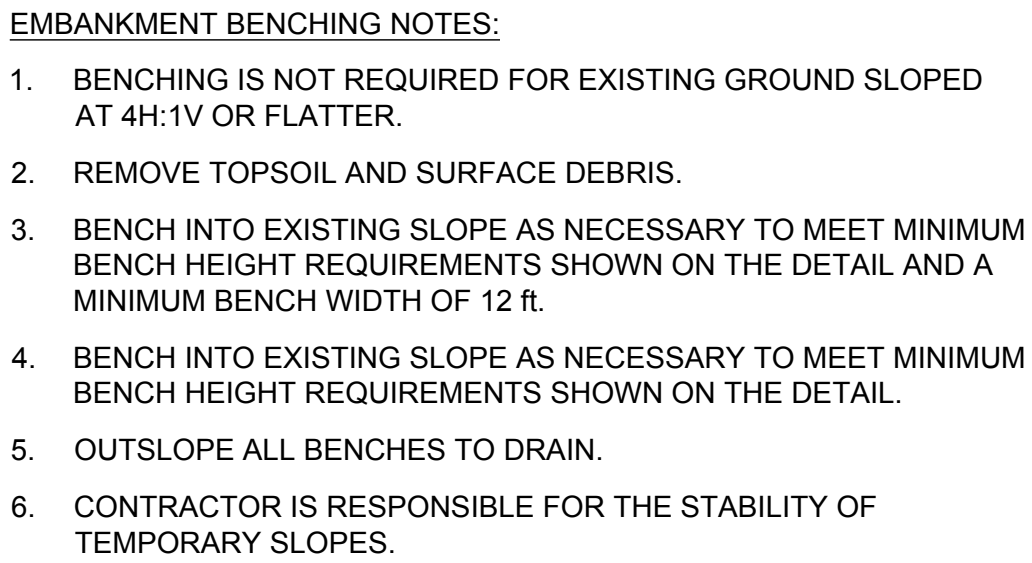
0 2022-04-12 ISSUED FOR CONSTRUCTION

NKR NKR JEO EPB

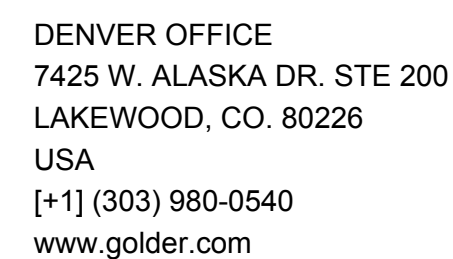
REV. YYYY-MM-DD DESCRIPTION

PREPARED DESIGNED REVIEWED APPROVED

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3 AND D

SEAL

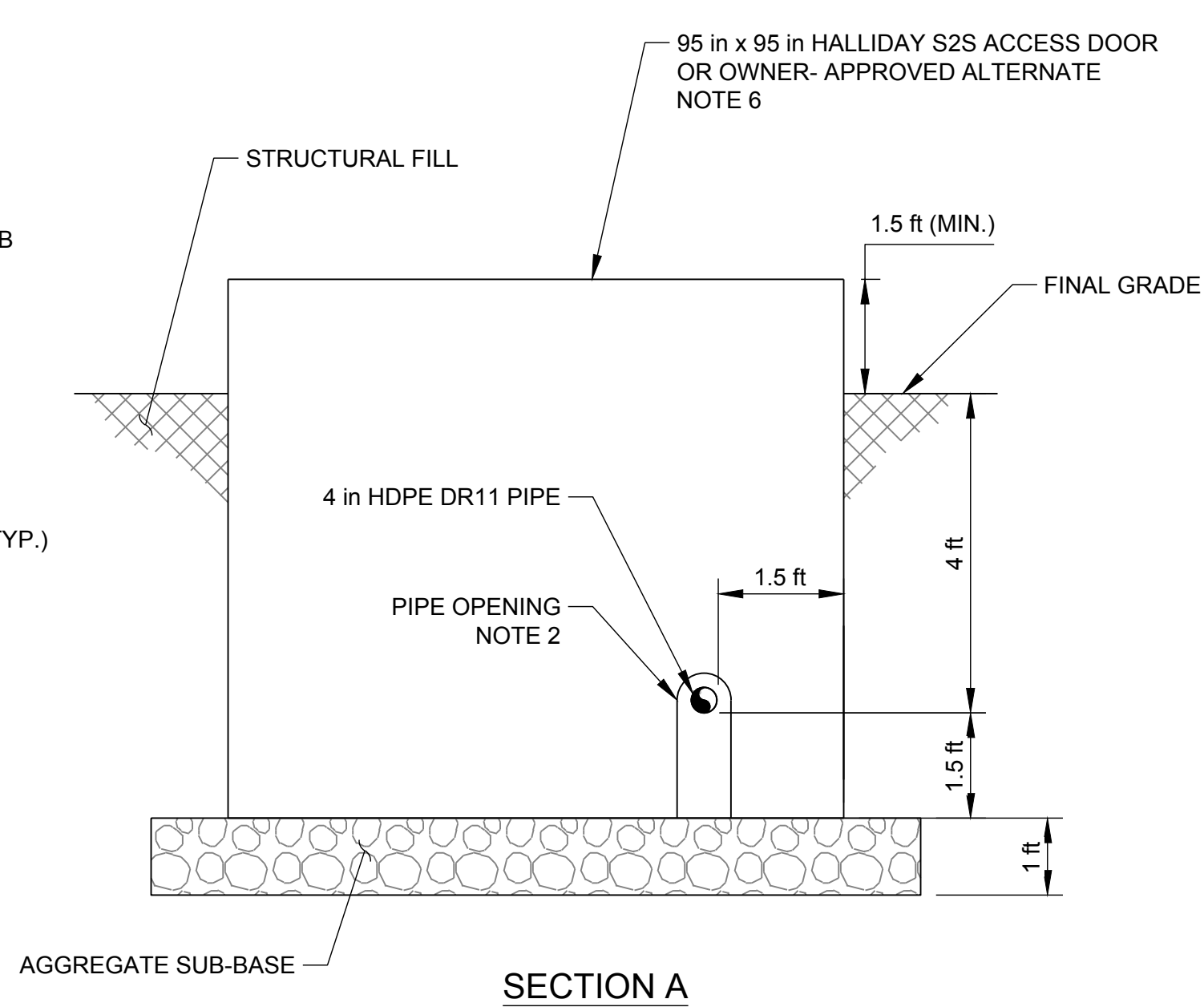
CONSULTANT



PROJECT  
CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

TITLE  
**CIVIL DETAILS SHEET 4**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN! THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

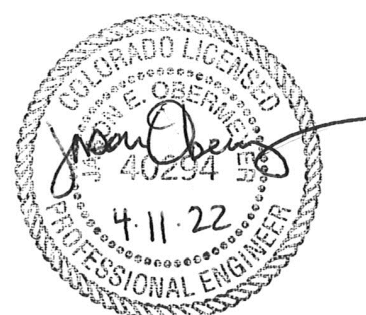


- NOTE(S)**
1. REFER TO DRAWING 860-1-C-101 FOR LEGEND AND ABBREVIATIONS.
  2. THE PRE-CAST VAULT SHALL BE CONSTRUCTED WITH PIPE OPENINGS TO ALLOW INSTALLATION OF THE 4 in HDPE PIPE PRIOR TO PLACEMENT OF THE VAULT. AFTER PLACEMENT, THE PIPE OPENINGS SHALL BE FILLED WITH A CONCRETE MIX APPROVED BY THE OWNER'S REPRESENTATIVE.
  3. EXTENDABLE LADDER SHALL BE PIPELINE PRODUCTS VL-100 OR OWNER-APPROVED ALTERNATE. FINISH MUST BE APPROVED BY THE OWNER.
  4. PROVIDE AT LEAST 1.5 ft OF STRAIGHT-LINE PIPE UPSTREAM OF THE FLOW METER.
  5. VALVE SHALL BE PROVIDED WITH T-HANDLE OR KEY FOR OPERATION FROM THE GROUND SURFACE.
  6. CONCRETE BARRIERS SHALL BE AT LEAST 42 IN TALL AND OF A STANDARD DESIGN FOR TEMPORARY CONCRETE BARRIERS, SUCH AS FROM A STANDARD PLAN FOR A DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUPPORTING INFORMATION FOR REVIEW BY THE OWNER'S REPRESENTATIVE IN ACCORDANCE WITH SECTION 33 05 60 OF THE TECHNICAL SPECIFICATIONS.
  7. THE INDICATED PORTION OF THE DETAIL IS ONLY APPLICABLE BELOW ELEVATION 10329.3 (1.5 FEET ABOVE THE UNDERDRAIN PIPE OUTLET ). ABOVE ELEVATION 10329.3, THE INTO EXISTING GRADE WITH STRAIGHT LINE FILL.



|      |            |                         |          |          |          |          |
|------|------------|-------------------------|----------|----------|----------|----------|
| 0    | 2022-04-12 | ISSUED FOR CONSTRUCTION | NKR      | BJP      | JEO      | EPB      |
| REV. | YYYY-MM-DD | DESCRIPTION             | PREPARED | DESIGNED | REVIEWED | APPROVED |

SEAL



CLIENT



CONSULTANT

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PROJECT  
CLIMAX MINE  
MOLYBDENUM REMOVAL WATER TREATMENT PLANT

TITLE  
**CIVIL DETAIL SHEET 5**

|             |      |    |              |
|-------------|------|----|--------------|
| PROJECT NO. | REV. | of | DRAWING      |
| 1912808404  | 0    |    | 860-1A-C-155 |

Path: \\golder-gis.complex\data\office\Denver\acad\FMIMC\IMAX\99\_PROJECTS\19128094\ALT\A02\_PRODUCTION\DWG\CIVIL | File Name: 19128094-860-1A-C-155.dwg | Last Edited By: nrosenthal | Date: 2022-04-11 | Time: 4:21:06 PM | Printed By: Nrosenthal | Date: 2022-04-12 | Time: 12:39:43 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D  
1 in