STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF PARKS
AND
OUTDOOR RECREATION

JONESVILLE MINE
ADIT CLOSURE
PROJECT NO.
59560-1

In Cooperation with the AK DNR Division of ML&W, Abandoned Mine Lands Program

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The following Division of Parks & Outdoor Rec. standard drawings apply to this project: None

The following D.O.T. (Highway) standard drawings apply to this project: None
ESTIMATE OF QUANTITIES

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TABLE OF ESTIMATING FACTORS

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<td>RIPRAP, CLASS II</td>
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LEGEND

EXISTING TOPOGRAPHY
PROPOSED TOPOGRAPHY
OUT BOUNDARY
FILL BOUNDARY
FOOT TRAIL ACCESS
ATV TRAIL
EXISTING ROAD EDGES
CHANNEL INVERT
EXISTING EDGE OF VEGETATION
PROPOSED CLEARING & GRABBING
PROJECT BOUNDARY
CONTROL POINT

ABBREVIATIONS

# DIA. RADIUS
D/H HORIZONTAL TO VERTICAL RATIO
ACOE U.S. ARMY CORPS OF ENGINEERS
ADEC ALASKA DEPT. OF ENVIRONMENTAL CONSERVATION
ADFG ALASKA DEPARTMENT OF GAME
APPROX APPROXIMATE
BMP BEST MANAGEMENT PRACTICES
B.O.P. BEGINNING OF PROJECT
CAS CLEARING AND GRABBING
CFS CUBIC FEET PER SECOND
C.L. CENTERLINE
C.P. CONTROL POINT
C.F. CUBIC FOOT
C.Y. CUBIC YARD
C.E.B. EROSION CONTROL BLANKET
E.O.P. END OF PROJECT
F.G. FINAL GRADE
F.T. FEET
G.P.M. GALLONS PER MINUTE
GPS GLOBAL POSITIONING SYSTEM
I.N. INCHES
L.S. LUMP SUM
N.S.E.W NORTH, SOUTH, EAST, WEST
N.A.D. 83 NORTH AMERICAN DATUM, 1983
O.G. ORIGINAL GROUND, EXISTING TOPOGRAPHY
O.H.W. ORDINARY HIGH WATER
P.E.R.F. PERFORATED
P.I.P. PRESERVE IN PLACE
P.T. POINT
Q FLOW RATE, EXPRESSED IN VOLUME PER UNIT TIME
S.P. STATE PLANE COORDINATE SYSTEM
S.F. FT. SQUARE FEET
S.G. YD. SQUARE YARDS
S.T. STATION
T.R. TRANSITIONS
T.Y. TYPICAL

OTHER LIMETYPES AND HATCH PATTERNS WITH SPECIFIC APPLICATIONS ARE LABELED IN THE DRAWINGS.
NOTE: DIMENSIONS AND POSITIONS ARE APPROXIMATE. SYSTEM DESIGN IS BASED ON ACCOUNTS OF FLOOD, WATERSHED, WATER LEVEL, AND FLOW RATE VariKES.
NOTE: 1. INSTALL FRENCH DRAIN WITH NOMINAL DIMENSIONS 2 FT. THICK X 12 FT. WIDE. MAINTAIN MINIMUM 24 FT. CROSS SECTION THROUGHOUT ENTIRE LENGTH. MAINTAIN HYDRAULIC CONNECTIVITY TO RIPRAP PLUG INSIDE ADIT. TRANSITION FRENCH DRAIN INTO SUBGRADE SO THAT IT IS BELOW GROUND OUTSIDE ADIT. DO NOT DISTURB EXISTING WATER CONVEYANCE STRUCTURES.
2. POSITION RIPRAP AND VAULT DROP STRUCTURE SO AS NOT TO INTERFERE WITH EXISTING WATER DRAINAGE SYSTEM. INSTALL BASE OF OVERFLOW EXCEPT VAULT TOP OF VAULT 1 FT MINIMUM ABOVE OVERFLOW CHANNEL INVERT AND SURROUNDING FINAL GRADE. GRADE RINGS ARE ALLOTTED.
3. OVERFLOW CHANNEL STATION S+00 BEGINS AT VAULT.

ADIT CLOSURE DESIGN

SIDE VIEW

FRONT VIEW

NOTE: STRUCTURAL DIMENSIONS AND PLACEMENT ARE APPROXIMATE. EXISTING WATER DRAINAGE SYSTEM GEOMETRY IS BASED ON ACCOUNTS OF FORMER PERMITTING GEOLOGIST.
NOTE: 1. INSTALL FRENCH DRAIN WITH NOMINAL DIMENSIONS 2 FT. THICK X 12 FT. WIDE. MAINTAIN MINIMUM 24 IN. CROSS SECTION THROUGHOUT LENGTH.
2. REMOVE MUD FROM FLOOR INSIDE ADIT. INSTALL FRENCH DRAIN TO TRANSITION TO BELOW GRADE OUTSIDE ADIT. FRENCH DRAIN SHALL BE BELOW GRADE OUTSIDE ADIT.
3. POSITION PIPES AND VAULT STRUCTURE INSTALLATIONS SO AS NOT TO INTERFERE WITH EXISTING WATER DRAINAGE SYSTEM. INSTALL LOW POINT OF VAULT OVERFLOW EXIT GRADE 1 FT MUNINMUM ABOVE OVERFLOW CHANNEL INVERT AND SURROUNDING FINAL GRADE. GRADE RINGS ARE ALLOWED FOR VAULT GRATE INSTALLATION.
4. SCREEN UPSTREAM ENDS OF 12 INCH VERTICAL INTAKE PIPES TO PREVENT ENTRY OF ROCKS AND FOREIGN MATTER. INSTALL TRASH RACKS WITH LARGE 2"-3" MESH TO MINIMIZE WATER INFLOW. CONTRACTOR SHALL SUBMIT PROPOSED MATERIALS AND INSTALLATION METHOD TO ENGINEER FOR REVIEW AND APPROVAL.
5. RIPRAP NOT SHOWN FOR CLARITY.

NOTE: STRUCTURE DIMENSIONS AND POSITIONS ARE APPROXIMATE. EXISTING WATER DRAINAGE SYSTEM GEOMETRY IS BASED ON ACCOUNTS OF FORMER PERMITTING GEOLOGIST.
1. INSTALL A COURSE OF 1.5 FEET OF RIPRAP, CLASS I, OVER THE AREA SHOWN.
2. INSTALL RIPRAP, CLASS II PLUG AT FRENCH DRAIN, TO FULL HEIGHT OF ADIT, MINIMUM DISTANCE 7.5 FEET INSIDE OF OPENING. INSTALL ADIT AND COVER CLASS I RIPRAPH COURSE AS SPECIFIED. TAPER TO EXISTING DRAINAGE SYSTEM INTAKE OPEN DURING CONSTRUCTION AND AFTER INSTALLATIONS.
3. COVER MANHOLE WALLS AND EXISTING WATER CONVEYANCE STRUCTURES WITH MINIMUM 5 FEET COMBINED THICKNESS OF RIPRAP COURSES.
4. COVER TOP OF ADIT OPENING, EXPOSED BACK AREAS OF ADIT, AND RIPRAP INSTALLATION WITH 2.5 FEET OF SOILS, MINIMUM. COVER ALL RIPRAP WITH SOILS EXCEPT THE TOP AREA, WHICH SHALL REMAIN OPEN FOR DRAINAGE, PER TEMPLATE, BLEND VARIATIONS INTO EXISTING.
5. DEPICTED RIPRAP INSTALLATION LIMITS ARE APPROXIMATE, AND MAY VARY.
6. FRENCH DRAIN ROCK CLASS I RIPRAP NOT SHOWN, FOR CLARITY.

NOTE: STRUCTURE DIMENSIONS AND POSITIONS ARE APPROXIMATE. EXISTING WATER DRAINAGE SYSTEM GEOMETRY IS BASED ON ACCOUNTS OF FORMER PERMITTING GEOLOGIST.
NOTES:
1. DESIGN SECTIONS ARE POSITIONED TO MINIMIZE VEGETATION CLEARING AND FIT TOPOGRAPHY.
2. TRANSITION CHANNEL GEOMETRY SMOOTHLY BETWEEN SECTIONS IN ORDER TO OPTIMIZE FLOW CHARACTERISTICS.
3. EXISTING INFRASTRUCTURE DIMENSIONS AND POSITIONS ARE APPROXIMATE. LOCATION AND EXISTING ELEVATIONS ARE BASED ON USGS AND FIELD GPS LOCATIONS.
NOTE: EXISTING CONTOURS INDICATE APPROXIMATE DRAIN OUTLET POSITION.

WEST FIRE POND DRAINPIPE OUTLET DESIGN

SITE PLAN DETAIL

NOTE: STRUCTURE DIMENSIONS, POSITIONS, AND ELEVATIONS ARE APPROXIMATE. EXISTING CONDITIONS AND WATER DRAINAGE SYSTEM GEOMETRY MAY REQUIRE DESIGN ADJUSTMENTS.