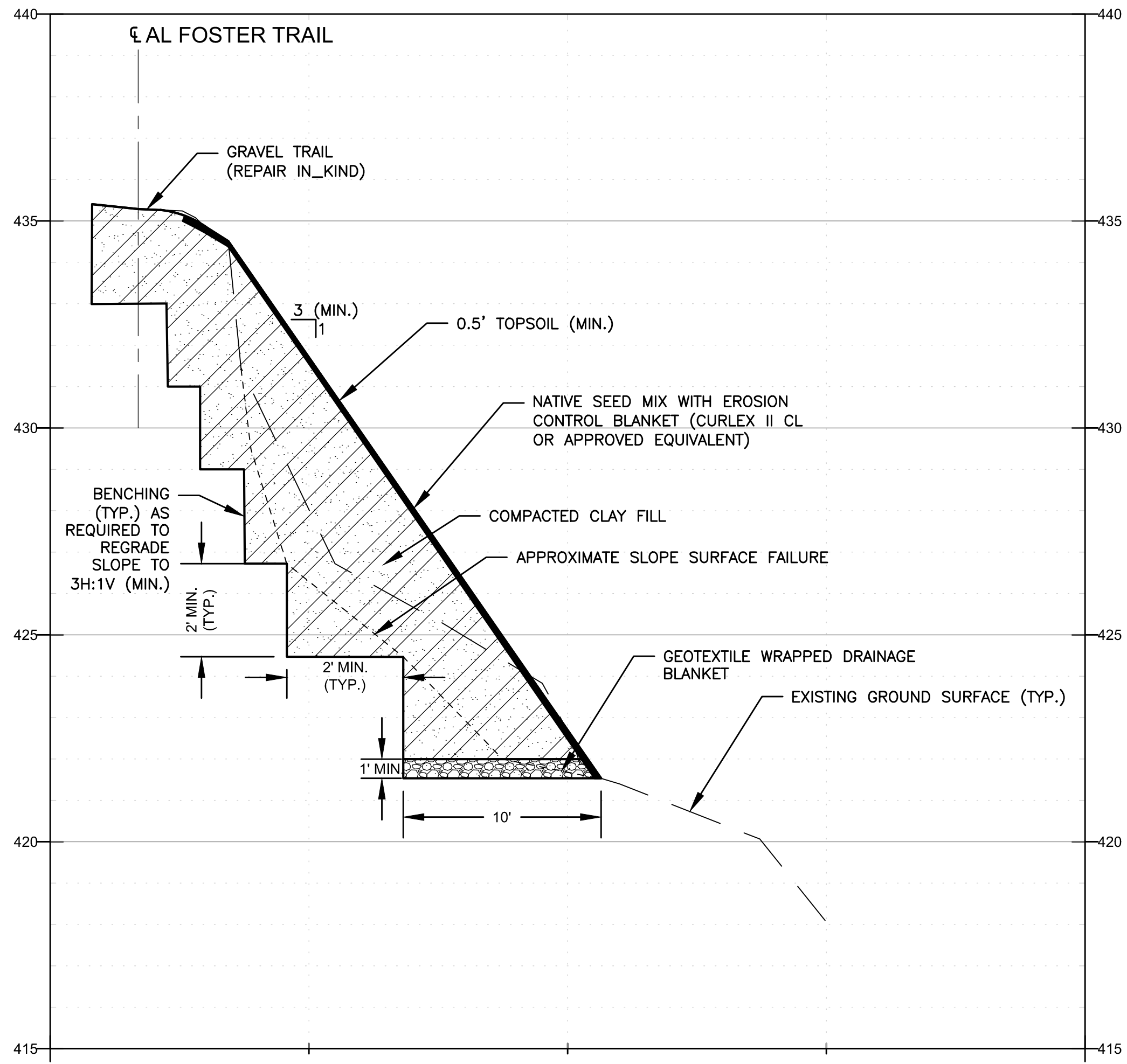
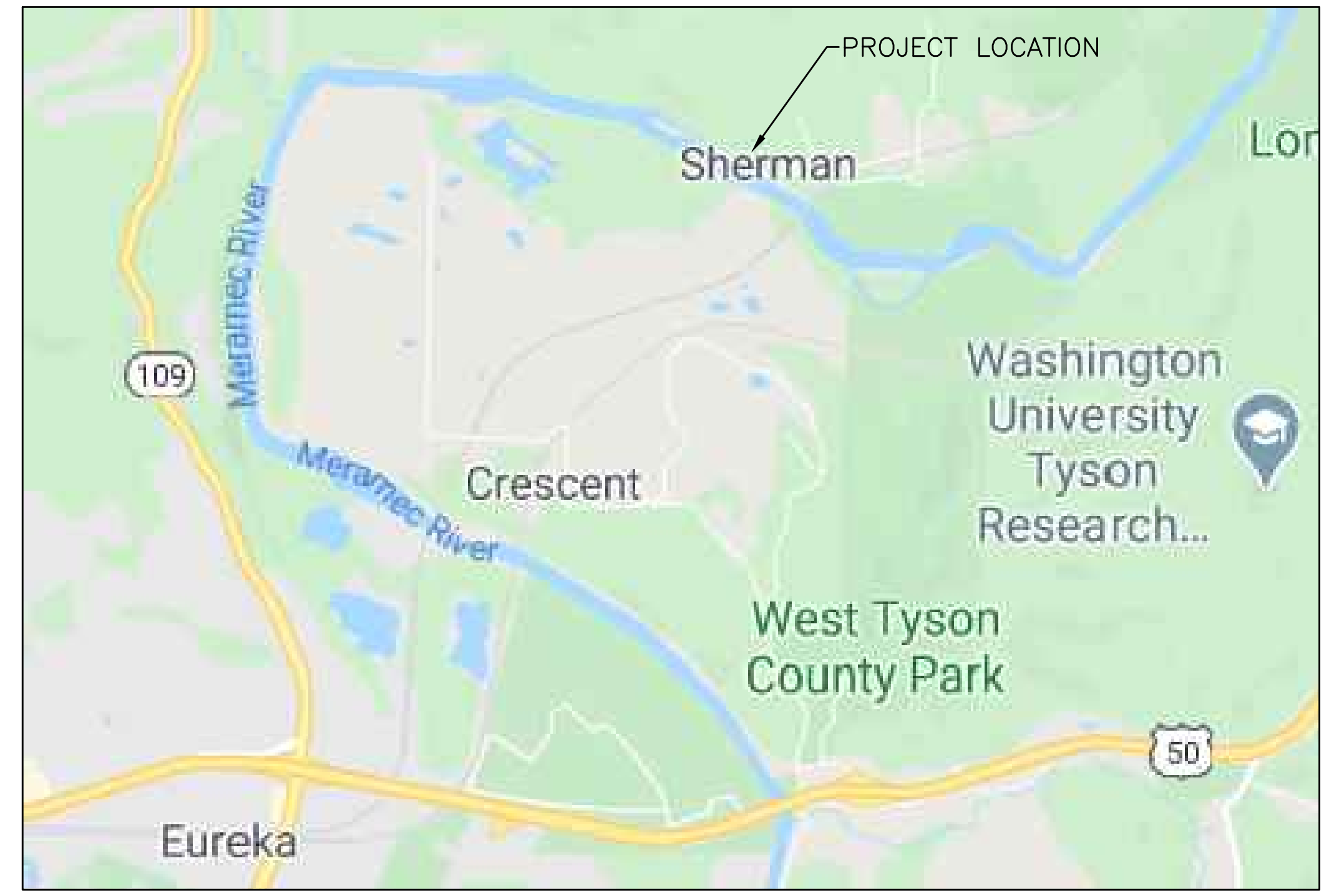


PLAN VIEW



SECTION A - A TYPICAL SECTION
N.T.S.



LOCATION MAP
N.T.S.

NOTES

- 1. GENERAL REQUIREMENTS**
 - 1.1. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE OWNER.
 - 1.2. CONTRACTOR ACCESS TO THE SITE SHALL BE COORDINATED WITH OWNER.
- 2. EROSION CONTROL**
 - 2.1. THE CONTRACTOR ASSUMES COMPLETE RESPONSIBILITY FOR INSTALLATION/MAINTENANCE OF PROJECT EROSION CONTROL MEASURES AND COMPLIANCE THAT MEET THE OWNER'S REQUIREMENTS.
 - 2.2. THE CONTRACTOR SHALL EMPLOY WHATEVER MEANS NECESSARY TO CONTROL EROSION AND PREVENT SOIL FROM LEAVING THE PROJECT SITE.
 - 2.3. INSTALLATION OF EROSION CONTROL MEASURES SHALL COMMENCE WITH THE START OF GRADING OPERATIONS AND THOSE MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER.
- 3. SITE PREPARATION**
 - 3.1. TO PREPARE THE SITE, REMAINING VEGETATION INCLUDING TREES, BRUSH, STUMPS, LARGE ROOTS, AND TOPSOIL SHALL BE REMOVED FROM AREAS TO BE RECONSTRUCTED. TOPSOIL SHALL BE REMOVED FROM THE SITE OR MAY BE USED AS FILL IN LANDSCAPING AREAS ONLY. ON STABILIZED SLOPES TOPSOIL USE SHALL BE LIMITED TO THE UPPER ONE FOOT. PRIOR TO PLACEMENT OF THE SLOPE, THE SUBGRADE SHALL BE PREPARED AS INDICATED BELOW. ALL EXPOSED EARTHWORK AND EARTH SLOPES SHALL BE PROTECTED FROM EROSION.
- 4. SITE EXCAVATION**
 - 4.1. MATERIAL THE CONTRACTOR SHALL EXCAVATE MATERIAL AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED CROSS-SECTION.
 - 4.2. DISTRESSED (I.E. FAILED AND/OR DISPLACED) MATERIALS RESULTED FROM SLOPE FAILURE SHALL BE REMOVED PRIOR TO PLACEMENT OF FILL MATERIALS.
- 5. FILL PLACEMENT**
 - 5.1. PRIOR TO THE PLACEMENT AND COMPACTION OF ANY FILL, THE TOPSOIL AND DISTRESSED SOIL SHALL BE REMOVED. THE TOPSOIL AND CLAY MAY BE STOCKPILED SEPARATELY FOR LATER REUSE.
 - 5.2. SURFACES TO RECEIVE FINED GRAINED SOIL FILL (CL, ML-CL) AND GRANULAR AGGREGATE (SP, SW, GP, GW) SHALL BE STEPPED, OR KEYED, A MINIMUM OF 2 FEET INTO NATIVE AND NON-DISPLACED GROUND TO PERMIT PLACEMENT AND COMPACTION OPERATIONS AND BONDING WITH THE EXISTING SURFACE.
 - 5.3. FINE GRAINED SOIL AND GRANULAR AGGREGATE FILL MAY BE OVERBUILT TO ACCOMMODATE PLACEMENT, SPREADING, AND COMPACTION OF HORIZONTAL LIFTS.
 - 5.4. GRANULAR AGGREGATE SHALL BE PLACED IN LOOSE UNIFORM HORIZONTAL LIFTS NOT EXCEEDING 10 INCHES IN THICKNESS. LIFTS SHALL BE PLACED AT LOWEST ELEVATION FIRST, EACH LIFT SHALL BE COMPACTED TO A RELATIVE DENSITY OF AT LEAST 70% (ASTM D-4254) USING APPROVED EARTHMOVING EQUIPMENT.
 - 5.5. FINE GRAINED SOIL FILL SHALL BE PLACED IN LOOSE UNIFORM HORIZONTAL LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS. LIFTS SHALL BE PLACED AT LOWEST ELEVATIONS FIRST. EACH LIFT SHALL BE COMPACTED TO A DENSITY OF AT LEAST 95% OF STANDARD PROCTOR TEST (ASTM D-698) AT A MOISTURE CONTENT BETWEEN 2% BELOW AND 3% ABOVE THE OPTIMUM MOISTURE CONTENT USING APPROVED EARTHMOVING EQUIPMENT.
 - 5.6. MATERIAL PLACED THAT DOES NOT MEET THE MINIMUM COMPACTION REQUIREMENTS SHALL BE REWORKED AS NECESSARY TO OBTAIN THE SPECIFIED COMPACTION AT NO EXTRA COST TO THE OWNER. REWORKING MAY INCLUDE REMOVAL, REHANDLING, RECONDITIONING (INCLUDING DRYING OR ADDING WATER), RE-COMPACTING, OR COMBINATIONS OF THESE PROCEDURES. NO FURTHER PLACEMENT OF MATERIAL WILL BE ALLOWED UNTIL THE COMPACTION REQUIREMENTS ARE MET. IF THE MATERIAL BECOMES UNSUITABLE FOR USE AFTER PLACEMENT, EVEN IF PREVIOUSLY COMPACTED TO THE SPECIFIED PERCENTAGE, IT SHALL BE MODIFIED (OR REMOVED AND REPLACED BY SUITABLE MATERIAL) AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS AT NO EXTRA COST TO THE OWNER.
 - 5.7. NO FILL SHALL BE PLACED ON SOFT MATERIAL, MUDDY, OR FROZEN GROUND. THE COMPACTED EARTH SHALL BE SLOPED AND GRADED TO PERMIT RUNOFF OF RAINWATER. NO PONDING OF WATER ON THE FILL SURFACE SHALL BE PERMITTED.
 - 5.8. DRAINAGE BLANKET MATERIAL SHALL BE WRAPPED WITH GEOTEXTILE FABRIC SEPARATOR TO PREVENT MIGRATION OF FINE GRAINED SOIL (SUBGRADE OR FILL) MATERIAL INTO DRAINAGE BLANKET MATERIAL.
- 6. MATERIALS**
 - 6.1. THE CONTRACTOR SHALL PROVIDE TO THE OWNER DOCUMENTATION THAT THE PROPOSED MATERIALS MEET THE SPECIFICATIONS LISTED. THE PROPOSED MATERIALS WILL BE APPROVED FOR USE AT THE DISCRETION OF THE OWNER.
 - 6.2. COMPACTED CLAY FILL: LOW PLASTIC CLAY (CL) OR CLAYEY SILT (CL-ML) AS DEFINED BY ASTM D2487 WITH A PLASTICITY INDEX LESS THAN OR EQUAL TO 20 PERCENT OR APPROVED EQUIVALENT. FILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL.
 - 6.3. DRAINAGE BLANKET: DRAINAGE BLANKET MATERIAL SHALL BE FREE DRAINING GRANULAR AGGREGATE THAT MEETS MODOT SPECIFICATION PER SECTION 1009.3.4 GRADE 4, GRADATION A OR APPROVED EQUIVALENT.
 - 6.4. TOPSOIL: LOW PLASTIC CLAY (CL) OR CLAYEY SILT (CL-ML) AS DEFINED BY ASTM D2487 WITH A PLASTICITY INDEX LESS THAN OR EQUAL TO 20 PERCENT OR APPROVED EQUIVALENT.
 - 6.5. GEOTEXTILE FABRIC: THE GEOTEXTILE FABRIC SHALL BE TENCATE MIRAFT 180N OR APPROVED EQUIVALENT. GEOTEXTILE SHALL BE INSTALLED AS SHOWN ON THE DRAWING IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDED INSTALLATION PROCESS AND ANCHORED PER MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR MAY PROPOSE ALTERNATE MANUFACTURERS AND PRODUCTS, SUBJECT TO THE OWNER'S APPROVAL.
 - 6.6. EROSION CONTROL BLANKET: THE EROSION CONTROL BLANKET SHALL BE AMERICAN EXCELSIOR CURLEX II CL OR APPROVED EQUIVALENT. EROSION CONTROL BLANKET SHALL BE INSTALLED AS SHOWN ON THE DRAWING IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDED INSTALLATION PROCESS AND ANCHORED PER MANUFACTURER'S RECOMMENDATIONS.
- 7. VEGETATION**
 - 7.1. CONTRACTOR SHALL INSTALL VEGETATION AT LOCATIONS AS INDICATED IN THE PLANS. PLANTING MATERIAL, CONSTRUCTION REQUIREMENTS, CARE AND REPLACEMENT, AND INSPECTION SHALL CONFORM TO MODOT SPECIFICATION SECTION 808 AND OWNER'S SPECIFICATIONS.
 - 7.2. SEEDING: GRASSY NATIVE SEED MIX AS APPROVED BY OWNER.

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REVISIONS:	
#	Description

SIGNED: ERIC GLAZIER
 EXP: 12-31-2020
 PROFESSIONAL ENGINEER
 MO E-025448

TITLE: **AL FOSTER SLOPE FAILURE**

DESIGNED BY: EJC
 DRAWN BY: CAH
 CHECKED BY: NPK
 DRAWING FILE: 19-214-04_DESIGN.dwg

TITLE: **PLAN, DETAILS AND NOTES**

PROJECT NO. 19-214-04
 DATE: 3/30/2020

SHEET 1 OF 1

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 Plotted on: 3/30/2020 10:29 PM
 Plotted By: Eric Glazier