Pinyon Environmental, Inc.

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October 21, 2021

Ryan Howser
El Paso County Planning and Community Development
2880 International Circle, Suite 110
Colorado Springs, CO 80910

Subject: 1041 document request

Dear Mr. Howser:

A fiber optic cable will be upgraded starting at the intersection of Enoch Road and Book Drive (see attached figures). The upgraded cable will continue southeast and end on Myers Rd. This line is an upgrade of an existing utility that is owned by AT&T. A portion of this line north of Enoch and Book Drive was upgraded in 2020 and this is an extension of that upgrade.

All installation work will take place within the right of way of the road. No permanent BMPs will be installed, and the disturbed areas will be returned to the previous topography then seeded and mulched.

According to Chapter 5 of the 1041 regulations, a fiber optic cable is not included in the definitions of electric transmission lines and pipelines that would require a 1041 application:

https://library.municode.com/co/el_paso_county/codes/land_development_code?nodeId=APXBGUREARACSTIN

No electric transmission line or pipeline shall be constructed, located, relocated, reconstructed, enlarged or upgraded within 105 feet of the centerline of any County road with a current or proposed classification as arterial or expressway, as set forth in the El Paso County Major Transportation Corridors Plan and in the El Paso County Engineering Criteria Manual, except pipelines less than 12" in diameter and electric transmission, distribution, and service lines less than 115 kilovolts, along with necessary appurtenant facilities, when: (1) such action is necessary in order to cross such road at or near a perpendicular angle or to provide service to an individual utility customer, (2) approval has been granted pursuant to the El Paso County Engineering, Criteria Manual at Chapter 4 and Sections 5.3 and 5.5, or (3) a county, municipal, rural transportation authority, or state public construction, relocation, realignment, or improvement project results in partially or completely overtaking a private easement or a deeded or platted public utility easement occupied by the electric transmission line or pipeline.

"Pipeline" is defined as: "any pipeline and appurtenant facilities thereto, designed for, or capable of, transporting natural gas, manufactured gas, or other petroleum derivatives."

"Transmission Line" is defined as: "any electric transmission line and appurtenant facilities used to transmit electricity."

Sincerely,

Scott Fanello

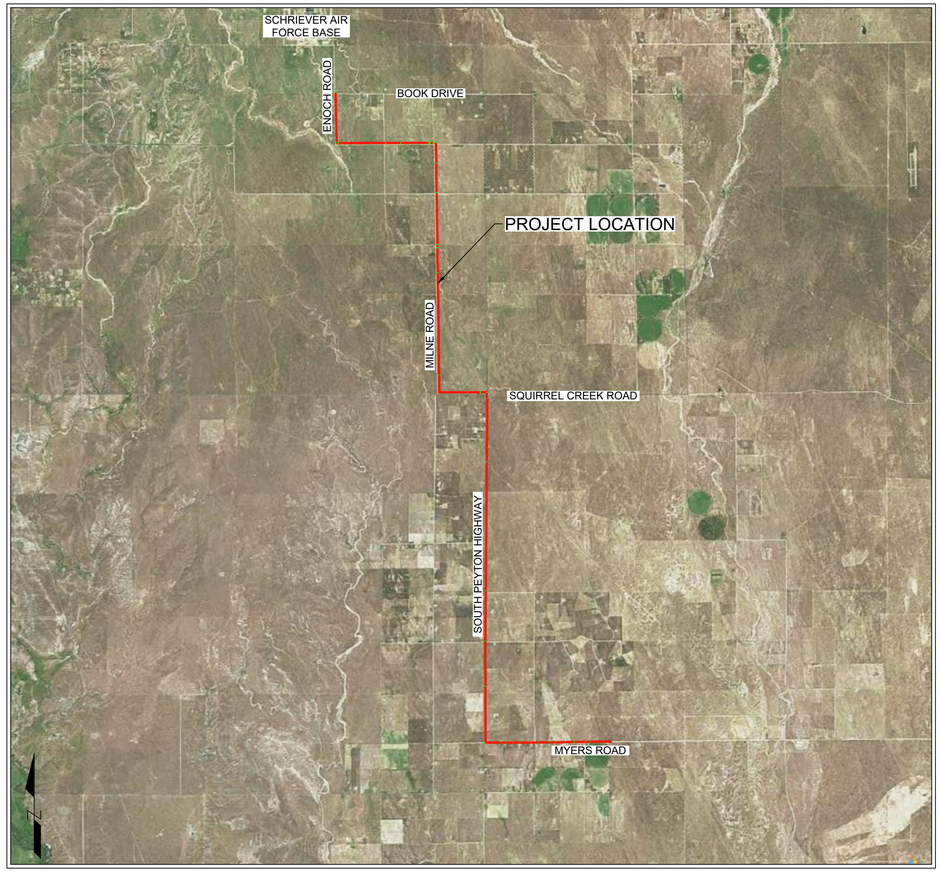
Pinyon Environmental, Inc.

Scott Fanello
Environmental Engineer

File Location: Z:\PROJECTS\2021\121135701 ATT Butte SWMP Permit\Permits\El Paso Permit\1041 Letter\1041 Letter for Fiber Optic Install 10.21.21.docx

CONTRACT DRAWINGS FOR CONSTRUCTION OF

SAFB BYPASS
RELOCATION PROJECT 2021 EXTENSION
EROSION AND STORMWATER QUALITY CONTROL PLAN



PROJECT LOCATION: MULTIPLE SECTIONS
TOWNSHIP 15S, RANGE 64W - TOWNSHIP 16S RANGE 64W

LOCATION MAP

SCALE = 1" = 8000'

INDEX OF SHEETS		
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2	C–2	STANDARD NOTES
3	N–1	APPLICANT INFORMATION / PROJECT SITE DESCRIPTION
4	N–2	SITE MAP COMPONENT / QUALIFIED STORMWATER MANAGER
5	N–3	STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES / DURING CONSTRUCTION / INSPECTIONS / CONTROL MEASURE MAINTENANCE / RECORD KEEPING / INTERIM, PERMANENT STABILIZATION AND LONG TERM STORMWATER MANAGEMENT
6	N–4	PIROR TO PROJECT FINAL ACCEPTANCE
7	N–5	NARRATIVES
8	N–6	NARRATIVES
9	N–7	NARRATIVES
10	N–8	TABULATION OF STORMWATER QUANTITIES
11	N–9	TABULATION OF STORMWATER QUANTITIES
12	G–1 – G34	ESQCP SITE MAPS
44	SHEET 1–8	DETAIL SHEET

APPLICANT INFORMATION:

A. OWNER APPLICANT NAME: AT&T CORP., LANA SCARLETT-ROWELL
ADDRESS: 3450 RIVERWOOD PARKWAY SE, ROW DEPT., ATLANTA, GA 30339
TELEPHONE: 720-539-9714

B. CONTRACTOR/OPERATOR APPLICANT NAME: CLEARWATER CONSULTING GROUP
ATTN: DUANE WARD
ADDRESS: 120 9TH AVE SOUTH, SUITE 140, NAMPA ID 83687
TELEPHONE: 208-866-2956

C. QUALIFIED SWMP DESIGNER
COMPANY: PINYON ENVIRONMENTAL, INC.
NAME: SCOTT FANELLO
ADDRESS: 3222 SOUTH VANCE STREET, LAKEWOOD, CO 80227
TELEPHONE: 303-980-5200
TRAINING CERTIFICATION: CDOT SWMP PREPARER CERTIFICATION #53DE94DF

D. QUALIFIED STORMWATER MANAGER (QSM) FOR CONSTRUCTION - THE QSM FOR CONSTRUCTION WILL MAINTAIN THE SWMP AND WILL REVISE THE SWMP AFTER EACH INSPECTION TO REFLECT CURRENT SITE CONDITIONS.
COMPANY: CLEARWATER CONSULTING GROUP
NAME: SAM D'ORAZIO
ADDRESS: 120 9TH AVE SOUTH, SUITE 140, NAMPA ID 83687
TELEPHONE: 208-866-2956

THE EROSION AND STORMWATER QUALITY CONTROL PLAN INCLUDED HEREIN HAS BEEN PLACED IN EL PASO COUNTY FILE FOR THIS PROJECT AND APPEARS TO FULFILL APPLICABLE EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL CRITERIA. ADDITIONAL EROSION AND STORMWATER QUALITY CONTROL MEASURES MAY BE REQUIRED OF THE OWNER OR HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLANS DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND SHALL BE OBLIGATION OF THE LANDOWNER, OR HIS OR HER DESIGNATED REPRESENTATIVE, UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

THE EROSION AND STORMWATER QUALITY CONTROL PLAN INCLUDED HEREIN HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE REQUIREMENTS OF THE EROSION AND STORMWATER QUALITY CONTROL PLAN (ESQCP) MANUAL OF EL PASO COUNTY.

ESQCP PLANS PREPARED BY:

SCOTT FANELLO	10/12/2021	51784
NAME	DATE	PE NUMBER

CALL UTILITY NOTIFICATION CENTER OF COLORADO

1-800-922-1987

CALL 2–BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW

DATE

THESE CONSTRUCTION DRAWINGS HAVE BEEN REVIEWED BY EL PASO COUNTY FOR EROSION AND STORMWATER QUALITY CONTROL PLAN IMPROVEMENTS ONLY.

ENGINEERING DIVISION ACCEPTANCE BLOCK

Sheet Revisions

	Date:	Comments	Init.
R–1	10/12/21	INITIAL SUBMITTAL	SLF

Pinyon Environmental, Inc.
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El Paso County Planning and Community Development Department
2880 International Circle,
Colorado Springs, CO 80910
(719) 520–6300

EROSION AND STORMWATER QUALITY CONTROL PLAN

COVER SHEET

Designer: S. FANELLO | Detailer: S. ADAMITIS

DRAWING

C-1

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Revised: July 2019

		Applicant	PCD
1	Stormwater discharges from construction sites shall not cause or threaten to cause pollution, contamination, or degradation of State Waters. All work and earth disturbance shall be done in a manner that minimizes pollution of any on-site or off-site waters, including wetlands.		
2	Notwithstanding anything depicted in these plans in words or graphic representation, all design and construction related to roads, storm drainage and erosion control shall conform to the standards and requirements of the most recent version of the relevant adopted El Paso County standards, including the Land Development Code, the Engineering Criteria Manual, the Drainage Criteria Manual, and the Drainage Criteria Manual Volume 2. Any deviations from regulations and standards must be requested, and approved, in writing.		
3	A separate Stormwater Management Plan (SMWP) for this project shall be completed and an Erosion and Stormwater Quality Control Permit (ESQCP) issued prior to commencing construction. Management of the SWMP during construction is the responsibility of the designated Qualified Stormwater Manager or Certified Erosion Control Inspector. The SWMP shall be located on site at all times during construction and shall be kept up to date with work progress and changes in the field.		
4	Once the ESQCP is approved and a "Notice to Proceed" has been issued, the contractor may install the initial stage erosion and sediment control measures as indicated on the approved GEC. A Preconstruction Meeting between the contractor, engineer, and El Paso County will be held prior to any construction. It is the responsibility of the applicant to coordinate the meeting time and place with County staff.		
5	Control measures must be installed prior to commencement of activities that could contribute pollutants to stormwater. control measures for all slopes, channels, ditches, and disturbed land areas shall be installed immediately upon completion of the disturbance.		
6	All temporary sediment and erosion control measures shall be maintained and remain in effective operating condition until permanent soil erosion control measures are implemented and final stabilization is established. All persons engaged in land disturbance activities shall assess the adequacy of control measures at the site and identify if changes to those control measures are needed to ensure the continued effective performance of the control measures. All changes to temporary sediment and erosion control measures must be incorporated into the Stormwater Management Plan.		
7	Temporary stabilization shall be implemented on disturbed areas and stockpiles where ground disturbing construction activity has permanently ceased or temporarily ceased for longer than 14 days.		
8	Final stabilization must be implemented at all applicable construction sites. Final stabilization is achieved when all ground disturbing activities are complete and all disturbed areas either have a uniform vegetative cover with individual plant density of 70 percent of pre-disturbance levels established or equivalent permanent alternative stabilization method is implemented. All temporary sediment and erosion control measures shall be removed upon final stabilization and before permit closure.		
9	All permanent stormwater management facilities shall be installed as designed in the approved plans. Any proposed changes that effect the design or function of permanent stormwater management structures must be approved by the ECM Administrator prior to implementation.		
10	Earth disturbances shall be conducted in such a manner so as to effectively minimize accelerated soil erosion and resulting sedimentation. All disturbances shall be designed, constructed, and completed so that the exposed area of any disturbed land shall be limited to the shortest practical period of time. Pre-existing vegetation shall be protected and maintained within 50 horizontal feet of a waters of the state unless shown to be infeasible and specifically requested and approved.		
11	Compaction of soil must be prevented in areas designated for infiltration control measures or where final stabilization will be achieved by vegetative cover. Areas designated for infiltration control measures shall also be protected from sedimentation during construction until final stabilization is achieved. If compaction prevention is not feasible due to site constraints, all areas designated for infiltration and vegetation control measures must be loosened prior to installation of the control measure(s).		
12	Any temporary or permanent facility designed and constructed for the conveyance of stormwater around, through, or from the earth disturbance area shall be a stabilized conveyance designed to minimize erosion and the discharge of sediment off site.		
13	Concrete wash water shall be contained and disposed of in accordance with the SWMP. No wash water shall be discharged to or allowed to enter State Waters, including any surface or subsurface storm drainage system or facilities. Concrete washouts shall not be located in an area where shallow groundwater may be present, or within 50 feet of a surface water body, creek or stream.		
14	During dewatering operations of uncontaminated ground water may be discharged on site, but shall not leave the site in the form of surface runoff unless an approved State dewatering permit is in place.		
15	Erosion control blanketing or other protective covering shall be used on slopes steeper than 3:1.		
16	Contractor shall be responsible for the removal of all wastes from the construction site for disposal in accordance with local and State regulatory requirements. No construction debris, tree slash, building material wastes or unused building materials shall be buried, dumped, or discharged at the site.		
17	Waste materials shall not be temporarily placed or stored in the street, alley, or other public way, unless in accordance with an approved Traffic Control Plan. control measures may be required by El Paso County Engineering if deemed necessary, based on specific conditions and circumstances.		
18	Tracking of soils and construction debris off-site shall be minimized. Materials tracked off-site shall be cleaned up and properly disposed of immediately.		
19	The owner/developer shall be responsible for the removal of all construction debris, dirt, trash, rock, sediment, soil, and sand that may accumulate in roads, storm drains and other drainage conveyance systems and stormwater appurtenances as a result of site development.		
20	The quantity of materials stored on the project site shall be limited, as much as practical, to that quantity required to perform the work in an orderly sequence. All materials stored on-site shall be stored in a neat, orderly manner, in their original containers, with original manufacturer's labels.		
21	No chemical(s) having the potential to be released in stormwater are to be stored or used onsite unless permission for the use of such chemical(s) is granted in writing by the ECM Administrator. In granting approval for the use of such chemical(s), special conditions and monitoring may be required.		
22	Bulk storage of allowed petroleum products or other allowed liquid chemicals in excess of 55 gallons shall require adequate secondary containment protection to contain all spills onsite and to prevent any spilled materials from entering State Waters, any surface or subsurface storm drainage system or other facilities.		
23	No person shall cause the impediment of stormwater flow in the curb and gutter or ditch except with approved sediment control measures.		
24	Owner/developer and their agents shall comply with the "Colorado Water Quality Control Act" (Title 25, Article 8, CRS), and the "Clean Water Act" (33 USC 1344), in addition to the requirements of the Land Development Code, DCM Volume II and the ECM Appendix I. All appropriate permits must be obtained by the contractor prior to construction (1041, NPDES, Floodplain, 404, fugitive dust, etc.). In the event of conflicts between these requirements and other laws, rules, or regulations of other Federal, State, local, or County agencies, the most restrictive laws, rules, or regulations shall apply.		
25	All construction traffic must enter/exit the site only at approved construction access points.		
26	Prior to construction the permittee shall verify the location of existing utilities.		
27	A water source shall be available on site during earthwork operations and shall be utilized as required to minimize dust from earthwork equipment and wind.		
28	The soils report for this site has been prepared by the USDA Web Soil Survey website and shall be considered a part of these plans.		
29	At least ten (10) days prior to the anticipated start of construction, for projects that will disturb one (1) acre or more, the owner or operator of construction activity shall submit a permit application for stormwater discharge to the Colorado Department of Public Health and Environment, Water Quality Division. The application contains certification of completion of a stormwater management plan (SWMP), of which this Grading and Erosion Control Plan may be a part. For information or application materials contact: Colorado Department of Public Health and Environment Water Quality Control Division WQCD – Permits 4300 Cherry Creek Drive South Denver, CO 80246-1530 Attn: Permits Unit		

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Sheet Revisions		
Date:	Comments	Init.
10/12/21	INITIAL SUBMITTAL	SLF

R-1

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El Paso County Planning
and Community
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(719) 520-6300

EROSION AND STORMWATER QUALITY CONTROL PLAN

STANDARD NOTES

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
C-2

1. SITE DESCRIPTION

THE CONTRACTOR SHALL COMPLY WITH ALL CDOT CONTRACTUAL REQUIREMENTS, AND ALL REQUIREMENTS ASSOCIATED WITH THE CDPS-SCP ON THIS PROJECT. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL UPDATE THE SWMP TO REFLECT CURRENT PROJECT SITE CONDITIONS.

A. PROJECT SITE LOCATION:
A FIBER OPTIC CABLE WILL BE INSTALLED STARTING AT THE INTERSECTION OF BOOK DRIVE AND ENOCH ROAD AND CONTINUE SOUTHEAST ENDING NEAR INTERSECTION OF MYERS ROAD AND FINCH ROAD.

B. PROJECT SITE DESCRIPTION: CONSTRUCTION ACTIVITIES INCLUDE INSTALLATION OF UNDERGROUND UTILITIES FOLLOWED BY SEEDING AND MULCHING DISTURBED SOILS.

C. PROPOSED SCHEDULE FOR SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES: STABILIZE ALL AREAS THAT ARE NOT PAVED OR LANDSCAPED THROUGH ESTABLISHMENT OF VEGETATION COVER.

a. PRE-CONSTRUCTION ACTIVITIES AND CONTROL MEASURES

i. ACTIVITIES – PRE-CONSTRUCTION ACTIVITIES INCLUDE INSTALLING CONTROL MEASURES AT EXISTING STORMWATER STRUCTURES, PERIMETER CONTROLS, AND PROTECTION OF SENSITIVE ENVIRONMENTAL RESOURCES.

ii. CONTROL MEASURES (CR) – WETLANDS AND EXISTING CULVERTS, INLETS, AND OUTLETS AT DRIVEWAYS AND STREAM CROSSINGS WILL BE PROTECTED USING EROSION CONTROL LOG (SCL) CHECK DAMS, INLET PROTECTION, AND OUTLET PROTECTION PRIOR TO CONSTRUCTION.

iii. FOR STRUCTURAL AND NON-STRUCTURAL CONTROL MEASURE INSTALLATION AND MAINTENANCE INSTRUCTIONS, REFER TO THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL AND DRAINAGE CRITERIA MANUAL, VOLUME 2 - HTTPS://ASSETS-PUBLICWORKS.ELPASOCO.COM/WP-CONTENT/UPLOADS/DOCUMENTS/DRAINAGE-CRITERIA-MANUAL-V2.PDF

iv. START DATE – 9/15/21 END DATE – 3/31/22

b. INTERIM CONSTRUCTION ACTIVITIES AND CONTROL MEASURES

i. ACTIVITIES – CONSTRUCTION ACTIVITIES INCLUDE TRENCHING AND INSTALLATION OF FIBER OPTIC LINE.

ii. CONTROL MEASURES – SCLS WILL BE USED AS CHECK DAMS DOWN GRADIENT OF ACTIVE CONSTRUCTION ACTIVITIES. THESE WILL REMAIN IN PLACE UNTIL THE TRENCH IS BACKFILLED AND STABILIZED. PORTABLE VEHICLE TRACKING CONTROLS WILL BE USED TO MINIMIZE SEDIMENT TRACKING AT DISTURBANCE AREAS ALONG THE CORRIDOR. STREET SWEEPING WILL BE USED TO CONTROL SEDIMENT ON THE ROADWAY, IF ANY.

iii. FOR STRUCTURAL AND NON-STRUCTURAL CONTROL MEASURE INSTALLATION AND MAINTENANCE INSTRUCTIONS, REFER TO THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL AND DRAINAGE CRITERIA MANUAL, VOLUME 2 - HTTPS://ASSETS-PUBLICWORKS.ELPASOCO.COM/WP-CONTENT/UPLOADS/DOCUMENTS/DRAINAGE-CRITERIA-MANUAL-V2.PDF

iv. START DATE – 9/15/21 END DATE – 3/31/22

c. POST-CONSTRUCTION ACTIVITIES AND CONTROL MEASURES

i. ACTIVITIES – AFTER THE TRENCH IS BACKFILLED IT WILL BE SEEDED AND MULCHED FOR FINAL STABILIZATION

ii. CONTROL MEASURES – SEEDING AND MULCHING WILL BE USED TO STABILIZED DISTURBED SOILS.

iii. FOR STRUCTURAL AND NON-STRUCTURAL CONTROL MEASURE INSTALLATION AND MAINTENANCE INSTRUCTIONS, REFER TO THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL AND DRAINAGE CRITERIA MANUAL, VOLUME 2 - HTTPS://ASSETS-PUBLICWORKS.ELPASOCO.COM/WP-CONTENT/UPLOADS/DOCUMENTS/DRAINAGE-CRITERIA-MANUAL-V2.PDF

iv. TEMPORARY CONTROL MEASURES WILL BE REMOVED AFTER CONSTRUCTION IS COMPLETE AND DISTURBED SOILS HAVE BEEN STABILIZED. FINAL STABILIZATION IS DEFINED AS REACHING 70% OF THE VEGETATION DENSITY OF PRE-CONSTRUCTION CONDITIONS. SEE SECTION E BELOW FOR PRE-CONSTRUCTION PERCENT COVER.

v. START DATE – 9/15/21 END DATE – 3/31/22

D. ACRES OF DISTURBANCE:
1. TOTAL AREA OF CONSTRUCTION SITE (LOC (PERMITTED AREA)): 23.2 ACRES
2. TOTAL AREA OF PROPOSED DISTURBANCE (LDA): 23.2 ACRES
3. TOTAL AREA OF SEEDING: 21.82 ACRES
4. TOTAL AREA OF PRE-PROJECT IMPERVIOUS SURFACE: 0 SQ. FT.
5. TOTAL AREA OF FINAL IMPERVIOUS SURFACE: 0 SQ. FT.

E. EXISTING SOIL DATA: THE SITE IS PRIMARILY COMPOSED OF TRUCKTON SANDY LOAM, ASCALON SANDY LOAM, AND VONA SANDY LOAM. THESE SOILS HAVE LOW RUNOFF AND EROSION POTENTIAL.

F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER: DURING DESIGN, THE SWMP ADMINISTRATOR FOR DESIGN IN CONSULTATION WITH THE ENGINEER WILL DETERMINE IF THE SWMP ADMINISTRATOR FOR DESIGN OR THE SWMP ADMINISTRATOR FOR CONSTRUCTION WILL CONDUCT THE VEGETATION TRANSECTS. IF THE SITE IS DISTURBED, AN ADEQUATE REFERENCE SITE(S) MAY BE UTILIZED, REFER TO THE PERMIT.

PRE-CONSTRUCTION DATE OF SURVEY: 8/31/2021 PERCENT EXISTING VEGETATIVE COVER: 16.8%
DESCRIPTION OF EXISTING VEGETATION:

1. METHOD FOR DETERMINING PERCENT VEGETATIVE COVER: THE SWMP ADMINISTRATOR FOR DESIGN CONDUCTED AN ONLINE CALCULATION OF PRE-CONSTRUCTION VEGETATION DENSITY USING A RASTER IMAGE TOOL IN ARCGIS. THE TOOL USED WAS BASED OFF THE SOIL-ADJUSTED VEGETATION INDEX (SAVI). THE SOIL-ADJUSTED VEGETATION INDEX (SAVI) IS A MODIFIED VERSION OF THE NORMALIZED DIFFERENCE VEGETATION INDEX (NDVI). NDVI WAS ORIGINALLY CREATED TO CALCULATE VEGETATION HEALTH. THE MODIFICATION CORRECTS FOR SOIL BRIGHTNESS DUE TO LOW VEGETATION AREAS SUCH AS THOSE IN THE ARID WEST. IT CONVERTS EACH PIXEL INTO A VALUE BASED ON ITS RED AND NEAR INFRARED INFORMATION. TO CALCULATE % VEGETATION, PRE-CONSTRUCTION IMAGERY WAS TAKEN FROM USDA NAVI IMAGERY. THE NAVI IMAGERY WAS TAKEN BY SATELLITE AT A RESOLUTION OF ONE PIXEL PER SQUARE METER. THE IMAGERY INCLUDES DATA FROM THE RED AND NEAR INFRARED PORTIONS OF THE ELECTROMAGNETIC SPECTRUMS. USDA IMAGERY WAS CLIPPED TO POLYGONS OF VEGETATED AREA WITHIN THE PROJECT AREA. THESE POLYGONS WERE CHOSEN BECAUSE THEY WILL BE COMPLETED DISTURBED AND THEN RESEEDED DURING CONSTRUCTION. SAVI WAS THEN USED TO CLASSIFY EACH PIXEL WITHIN THE POLYGONS AS VEGETATED OR NOT VEGETATED. LASTLY THE TOTAL NUMBER OF VEGETATED PIXELS IS DIVIDED BY THE TOTAL NUMBER OF PIXELS TO CALCULATED THE % DENSITY OF VEGETATION.

POST-CONSTRUCTION DATE OF SURVEY: _____ PERCENT VEGETATIVE COVER: _____
DESCRIPTION OF VEGETATION: _____ **DATE OF CDPS-SCP CLOSURE:** _____

G. POTENTIAL POLLUTANTS SOURCES: REFER TO POTENTIAL POLLUTANT SOURCES IN SWMP SECTION 4A. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL PREPARE A LIST OF ALL POTENTIAL POLLUTANTS AND THEIR LOCATIONS IN ACCORDANCE WITH SUBSECTION 107.25.

H. RECEIVING WATER:

1. OUTFALL LOCATIONS: DISCHARGE WILL OCCUR ALONG THE PROJECT INTO ROADSIDE DITCHES. THERE ARE NO CENTRAL OUTFALL LOCATIONS.
2. DESCRIPTION OF ALL STREAM CROSSINGS LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY: THERE ARE NO STREAM CROSSINGS.
3. NAMES OF IMMEDIATE RECEIVING WATER(S) ON SITE: THERE ARE NO STREAM CROSSINGS
4. DOES THE ON-SITE RECEIVING WATER(S) HAVE 303D IMPAIRED DESIGNATION, OR TMDL/TMAL? NOT APPLICABLE
5. ULTIMATE RECEIVING WATER(S): CHICO CREEK WHICH IS 3 MILES WEST OF THE SITE

LOCATION	STREAM NAME	DESCRIPTION OF ANY DISTURBED UPLAND AREAS

I. ALLOWABLE NON-STORMWATER DISCHARGES:

DISCHARGE DESCRIPTION	LOCATION (SITE MAP #)	METHOD STATEMENT (LOCATION)
DEWATERING*	NOT APPLICABLE	NOT APPLICABLE
UNCONTAMINATED SPRING	NOT APPLICABLE	NOT APPLICABLE
CONCRETE WASH WATER (IN-GROUND WASHOUT STRUCTURE)	NOT APPLICABLE	NOT APPLICABLE
LANDSCAPE IRRIGATION RETURN FLOWS	NOT APPLICABLE	NOT APPLICABLE
EMERGENCY FIRE FIGHTING	NOT APPLICABLE	NOT APPLICABLE
CONCRETE SAW WATER	APPROX. STA 105+00	POTENTIAL OPEN TRENCH AT SOUTH CURTIS ROAD CROSSING

#CONCRETE WASHOUT WATER ASSOCIATED WITH THE WASHING OF CONCRETE TOOLS AND CONCRETE MIXER CHUTES CAN BE DISCHARGED TO THE GROUND IF SITE IS MANAGED ACCORDINGLY TO PREVENT THE WATER FROM LEAVING THE SITE AS SURFACE RUNOFF OR REACHING RECEIVING WATERS.

J. DESCRIPTION OF DRAINAGE PATTERNS FROM THE SITE: DISCHARGE WILL OCCUR ALONG THE PROJECT INTO ROADSIDE DITCHES. THERE ARE NO CENTRAL OUTFALL LOCATIONS AND NO STREAM CROSSINGS. CHICO CREEK WHICH IS 3 MILES WEST OF THE SITE

K. ALTERNATIVE DIVERSION CRITERIA: WHEN APPLICABLE, THE CONTRACTOR IS TO PROVIDE A METHOD STATEMENT BASED ON DATA PROVIDED BY THE HYDRAULIC ENGINEER. THE ALTERNATIVE DIVERSION MUST BE APPROVED BY CDPHE'S WATER QUALITY CONTROL DIVISION PRIOR TO IMPLEMENTATION. THE DIVERSION METHOD MUST BE DESIGNATE TO MINIMIZE THE DISCHARGE OF POLLUTANTS AND PREVENT THE POTENTIAL FOR POLLUTION OR DEGRADATION TO STATE WATERS AS A RESULT OF THE DIVERTED FLOW THROUGH THE DIVERSION STRUCTURE. IN ADDITION, THE ALTERNATIVE DIVERSION METHOD MUST MINIMIZE THE DISCHARGE OF POLLUTANTS THROUGHOUT THE INSTALLATION, IMPLEMENTATION AND REMOVAL OF THE DIVERSION.]

L. ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE: [IF APPLICABLE, PROVIDE A DESCRIPTION OF THE ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE. IF TEMPORARY STABILIZATION EXCEEDS THE 14-DAY SCHEDULE, THEN THE SWMP MUST DOCUMENT THE CONSTRAINTS NECESSITATING THE ALTERNATIVE SCHEDULE, PROVIDE THE ALTERNATIVE SCHEDULE, AND IDENTIFY ALL THE LOCATIONS WHERE THE ALTERNATIVE SCHEDULE IS APPLICABLE ON THE SITE MAP.]

2. SITE MAP COMPONENTS:

PRE-CONSTRUCTION

A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES: SEE SWMP SITE MAPS

B. FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON AND RUNOFF DIRECTION: SEE SWMP SITE MAPS

C. ALL AREAS OF GROUND SURFACE DISTURBANCE: SEE SWMP SITE MAPS

D. AREAS OF CUT AND FILL: NOT APPLICABLE

E. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (FIELD TRAILER, FUELING, ETC.) AND LOCATIONS OF ALL WASTE ACCUMULATION AND BATCH PLANTS INCLUDING MASONRY MIXING STATIONS: SEE SWMP SITE MAPS

F. LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP: SEE SWMP SITE MAPS

G. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP: SEE SWMP SITE MAPS

H. SPRINGS, STREAMS, WETLANDS, DIVERSIONS, AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER: SEE SWMP SITE MAPS

I. LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY: SEE SWMP SITE MAPS

J. PROTECTION OF TREES, SHRUBS, SENSITIVE HABITAT, AND CULTURAL RESOURCES: NOT APPLICABLE

K. LOCATIONS WHERE ALTERNATIVE TEMPORARY STABILIZATION SCHEDULES APPLY: NOT APPLICABLE

3. QUALIFIED STORMWATER MANAGERS:

A. SWMP ADMINISTRATOR FOR DESIGN: CDOT CERTIFIED INDIVIDUAL RESPONSIBLE FOR DEVELOPING SWMP PLAN SHEETS AND SWMP SITE MAPS DURING THE DESIGN PHASE.

NAME/TITLE	CONTACT INFORMATION	CERTIFICATION #
SCOTT FANELLO	303-980-5200	#53DE94DF

B. SWMP ADMINISTRATOR FOR CONSTRUCTION: (AS DEFINED IN SECTION 208) THE CONTRACTOR SHALL DESIGNATE A SWMP ADMINISTRATOR FOR CONSTRUCTION UPON ACCEPTING CO-PERMITTEE OF THE PERMIT. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL BECOME THE OPERATOR FOR THE SWMP AND ASSUME RESPONSIBILITY FOR ALL DESIGN CHANGES TO THE SWMP IMPLEMENTATION AND MAINTENANCE IN ACCORDANCE TO 208.03, THE SWMP SHALL REMAIN THE PROPERTY OF CDOT. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL BE RESPONSIBLE FOR IMPLEMENTING, MAINTAINING, AND REVISING SWMP, INCLUDING THE TITLE AND CONTACT INFORMATION. THE ACTIVITIES

AND RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL ADDRESS ALL ASPECTS OF THE PROJECT'S SWMP. (UPDATE THE INFORMATION BELOW FOR EACH NEW SWMP ADMINISTRATOR FOR CONSTRUCTION) (A COPY OF TECS CERTIFICATION MUST BE INCLUDED IN THE SWMP.)

NAME/TITLE	CONTACT INFORMATION (PHONE & EMAIL)	CERTIFICATION #	START DATE	ENGINEER APPROVAL
SAM D'ORAZIO	CLEARWATER CONSULTING GROUP – 208-866-2956			

C. EROSION CONTROL INSPECTOR: (AS DEFINED IN SECTION 208) THE CONTRACTOR MAY DESIGNATE AN EROSION CONTROL INSPECTOR. THE EROSION CONTROL INSPECTOR SHALL COMPLETE DUTIES IN ACCORDANCE WITH SUBSECTION 208.03 (C) (COPY OF TECS CERTIFICATION MUST ALSO BE INCLUDED IN THE SWMP.)

NAME/TITLE	CONTACT INFORMATION (PHONE & EMAIL)	TECS CERTIFICATION #	START DATE	ENGINEER APPROVAL
SAM D'ORAZIO	CLEARWATER CONSULTING GROUP – 208-866-2956			

THE QSM WILL BE SUFFICIENTLY QUALIFIED FOR THE REQUIRED DUTIES PER THE ECM APPENDIX 1.5.2.A

D. PERMANENT STABILIZATION SUBJECT MATTER EXPERT: THIS QUALIFIED INDIVIDUAL WILL BE EITHER A REGIONAL ENVIRONMENTAL STAFF MEMBER, OR AN INDEPENDENT CONTRACTOR CONTROLLER (INDEPENDENT ASSURANCE PROGRAM). THIS EXPERT IS A PROJECT TEAM LEADER RESPONSIBLE FOR ENSURING PROJECT ADHERENCE TO REQUIREMENTS OF THE 207 AND 212 PROJECT SPECIAL PROVISIONS AS FOLLOWS, AND WILL BE AVAILABLE FOR QUESTIONS REGARDING PERMANENT STABILIZATION REQUIREMENTS. SEE THE CONSTRUCTION PHASE INSPECTION AND VERIFICATION CHECKLIST ON THE LANDSCAPE ARCHITECTURE WEBSITE FOR REGIONAL CONTACTS TO ADDRESS REVEGETATION QUESTIONS:
HTTPS://WWW.CODOT.GOV/PROGRAMS/ENVIRONMENTAL/ASSETS/CONSTRUCTION-PHASE-INSPECTION-AND-VERIFICATION-CHECKLIST-FOR-SUCCESSFUL-ROADSIDE-REVEGETATION

1. REVIEW THE TOPSOIL MANAGEMENT PLAN AND THE PERMANENT STABILIZATION SITE MAPS.
2. ATTEND THE ENVIRONMENTAL PRE-CONSTRUCTION CONFERENCE.
3. COORDINATE THE SITE PRE-VEGETATION CONFERENCE.
4. REVIEW AND RECOMMEND APPROVAL OF PRODUCTS.
5. REVIEW AND RECOMMEND APPROVAL OF THE QUANTITIES VERIFICATION PREREQUISITE.
6. ATTEND THE SUBSTANTIAL LANDSCAPE COMPLETION WALKTHROUGH.
7. ATTEND THE FINAL LANDSCAPE COMPLETION WALKTHROUGH.

4. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES

PROJECT DOES NOT RELY ON CONTROL MEASURES OWNED OR OPERATED BY ANOTHER ENTITY.
THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. POTENTIAL POLLUTANT SOURCES:
EVALUATE, IDENTIFY, LOCATE AND DESCRIBE ALL POTENTIAL SOURCES OF POLLUTANTS AT THE SITE IN ACCORDANCE WITH SUBSECTION 107.25, CDPS-SCP AND PLACE IN THE SWMP. ALL CONTROL MEASURES RELATED TO POTENTIAL POLLUTANTS SHALL BE SHOWN ON THE SWMP SITE MAP BY THE CONTRACTOR'S SWMP ADMINISTRATOR FOR CONSTRUCTION.

B. OFFSITE DRAINAGE (RUN ON WATER):
DESCRIBE AND RECORD CONTROL MEASURES ON THE SWMP SITE MAP THAT HAVE BEEN IMPLEMENTED TO ADDRESS OFF SITE RUN-ON WATER IN ACCORDANCE WITH SUBSECTION 208.03.

C. VEHICLE TRACKING CONTROL:
CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH SUBSECTION 208.04.

D. PERIMETER CONTROL:
1. PERIMETER CONTROL SHALL BE ESTABLISHED AS THE FIRST ITEM ON THE SWMP TO PREVENT THE POTENTIAL FOR POLLUTANTS LEAVING THE CONSTRUCTION SITE BOUNDARIES, ENTERING THE STORMWATER DRAINAGE SYSTEM, OR DISCHARGING TO STATE WATERS. PERIMETER CONTROL SHALL BE IN ACCORDANCE WITH SUBSECTION 208.04
2. PERIMETER CONTROL MAY CONSIST OF BERMS, SILT FENCE, EROSION LOGS, EXISTING LANDFORMS, OR OTHER CONTROL MEASURES AS APPROVED.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION: CONSIDERED A "LIVING DOCUMENT", THE SWMP IS CONTINUOUSLY REVIEWED AND MODIFIED THROUGHOUT THE CONSTRUCTION PHASES. DURING CONSTRUCTION, SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL ADD, UPDATE, OR AMEND THE ITEMS A-G BELOW AS NEEDED IN ACCORDANCE WITH SUBSECTION 208.03.

DURING CONSTRUCTION, INDICATE HOW ITEMS HAVE WERE NOT ADDRESSED DURING DESIGN ARE BEING HANDLED IN CONSTRUCTION. IF ITEMS ARE COVERED IN OTHER SECTIONS OF THE SWMP, INDICATE BELOW WHAT SECTION THE DISCUSSION TAKES PLACE.

A. MATERIALS HANDLING AND SPILL PREVENTION AND RESPONSE PLAN: PRIOR TO CONSTRUCTION COMMENCING THE CONTRACTOR SHALL SUBMIT A SPILL RESPONSE PLAN, SEE SUBSECTION 208.06. MATERIALS HANDLING SHALL BE IN ACCORDANCE WITH SUBSECTION 208.06.
B. OTHER CDPS PERMITS: LIST APPLICABLE CDPS PERMITS ASSOCIATED WITH THE PERMITTED SITE AND ACTIVITIES.
C. STOCKPILE MANAGEMENT: SHALL BE DONE IN ACCORDANCE WITH SUBSECTIONS 107.25 AND 208.07
E. CONCRETE WASHOUT: CONCRETE WASHOUT WATER OR WASTE FROM FIELD LABORATORIES AND PAVING EQUIPMENT SHALL BE CONTAINED IN ACCORDANCE WITH SUBSECTION 208.05.
F. SAW CUTTING: SHALL BE DONE IN ACCORDANCE WITH SUBSECTIONS 107.25, 208.04, 208.05
G. STREET SWEEPING: SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 208.04

6. INSPECTIONS

A. WATER QUALITY INSPECTIONS SHALL BE IN ACCORDANCE WITH SUBSECTION 208.03(C).
B. PERMANENT STABILIZATION INSPECTIONS SHALL BE IN ACCORDANCE WITH SUBSECTIONS 207.03 AND 212.05.

7. CONTROL MEASURE MAINTENANCE

MAINTENANCE SHALL BE IN ACCORDANCE WITH SUBSECTION 208.04(F).

8. RECORD KEEPING

RECORDS SHALL BE KEPT IN ACCORDANCE WITH SUBSECTION 208.03(D).

9. INTERIM, PERMANENT STABILIZATION AND LONG TERM STORMWATER MANAGEMENT

THE CONTRACTOR SHALL COMPLY WITH ALL INTERIM STABILIZATION AND PERMANENT STABILIZATION REQUIREMENTS IN ACCORDANCE WITH SUBSECTION 208.04(E).

A. SEEDING PLAN:
THE FOLLOWING SEED MIX(ES) AND RATES ARE FOR DRILL SEEDING METHOD AS SHOWN ON THE PERMANENT STABILIZATION SITE MAPS SHALL BE USED:

RECOMMENDED ANNUAL GRASSES

SPECIES (COMMON NAME)	GROWTH SEASON	SEEDING DATE	POUNDS OF PURE LIVE SEED (PLS) (PLS/ACRE)	PLANTING DEPTH (INCHES)
1. OATS	COOL	MARCH 16 - APRIL 30	35-50	1-2
2. SPRING WHEAT	COOL	MARCH 16 - APRIL 30	25-35	1-2
3. SPRING BARLEY	COOL	MARCH 16 - APRIL 30	25-35	1-2
4. ANNUAL RYEGRASS	COOL	MARCH 16 - JUNE 30	10-15	1/2
5. MILLET	WARM	MAY 16 - JULY 15	3-15	1/2-3/4
6. SUDANGRASS	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
7. SORGHUM	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
8. WINTER WHEAT	COOL	SEPTEMBER 1 - 30	20-35	1-2
9. WINTER BARLEY	COOL	SEPTEMBER 1 - 30	20-35	1-2
10. WINTER RYE	COOL	SEPTEMBER 1 - 30	20-35	1-2
11. TRITICALE	COOL	SEPTEMBER 1 - 30	25-40	1-2

THIS TABLE WAS TAKEN FROM UDFCD FOR RECOMMENDED ANNUAL GRASSES FOR THE DENVER METROPOLITAN AREA. THIS TABLE MAY BE USED UNLESS A SITE-SPECIFIC SEED MIX IS REQUESTED AND APPROVED.

B. SEEDING APPLICATION METHOD: THE FOLLOWING SEEDING METHODS SHALL BE USED FOR ALL AREAS SHOWN ON THE PERMANENT STABILIZATION SITE MAPS. SOIL COMPACTION SHALL BE MINIMIZED FOR AREAS WHERE PERMANENT STABILIZATION WILL BE ACHIEVED THROUGH VEGETATIVE COVER.

INSTALLATION REQUIREMENTS

1. DISTURBED AREAS ARE TO BE SEEDED WITHIN 21 DAYS AFTER CONSTRUCTION ACTIVITY OR GRADING ENDS IF SEASON ALLOWS.

2. IF NECESSARY, SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY APPLYING TOPSOIL, FERTILIZER, OR LIME.

3. SOIL IS TO BE TILLED IMMEDIATELY PRIOR TO APPLYING SEEDS. COMPACT SOILS ESPECIALLY NEED TO BE LOOSENED.

4. SEEDBED DEPTH IS TO BE 4 INCHES FOR SLOPES FLATTER THAN 2:1, AND 1 INCH FOR SLOPES STEEPER THAN 2:1.

5. ANNUAL GRASSES LISTED IN TABLE TS-1 ARE TO BE USED FOR TEMPORARY SEEDING. SEED MIXES ARE NOT TO CONTAIN ANY NOXIOUS WEED SEEDS INCLUDING RUSSIAN OR CANADIAN THISTLE, KNAPWEED, PURPLE LOOSESTRIFE, EUROPEAN BINDWEED, JOHNSON GRASS, AND LEAFY SPURGE.

6. TABLE TS-1 ALSO PROVIDES REQUIREMENTS FOR SEEDING RATES, SEEDING DATES, AND PLANTING DEPTHS FOR THE APPROVED TYPES OF ANNUAL GRASSES.

7. SEEDING IS TO BE APPLIED USING MECHANICAL TYPE DRILLS EXCEPT WHERE SLOPES ARE STEEP OR ACCESS IS LIMITED THEN HYDRAULIC SEEDING MAY BE USED.

8. ALL SEEDED AREAS ARE TO BE MULCHED (SEE FACTSHEET ON MULCHING).

9. IF HYDRAULIC SEEDING IS USED THEN HYDRAULIC MULCHING SHALL BE DONE SEPARATELY TO AVOID SEEDS BECOMING ENCAPSULATED IN THE MULCH.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL SEEDED AREAS TO ENSURE GROWTH.

2. AREAS WHERE GROWTH IS NOT OCCURRING QUICKLY OR THE MULCH HAS BEEN REMOVED SHALL BE RE-SEEDED AS SOON AS POSSIBLE AND RE-MULCHED IF NEEDED.

3. SEEDED AREAS ARE NOT TO BE DRIVEN OVER WITH CONSTRUCTION EQUIPMENT OR VEHICLES.

C. SOIL STABILIZATION METHODS: MINIMUM SOIL STABILIZATION METHODS (ATTACHED MULCH) FOR ALL DISTURBANCES TO RECEIVE SEEDING.

1. APPLY CERTIFIED WEED FREE HAY OR CERTIFIED WEED FREE STRAW AND MECHANICALLY CRIMP INTO THE SOIL IN COMBINATION WITH NATURAL MULCH TACKIFIER IN ACCORDANCE WITH SECTION 213.
2. INSTALL SOIL RETENTION BLANKETS IN ACCORDANCE WITH STANDARD PLAN M-216-1 AND SECTION 216.

D. SPECIAL REQUIREMENTS:

1. SOIL AMENDMENTS, SEEDBED PREPARATION, AND PERMANENT STABILIZATION MULCHING SHALL BE ACCOMPLISHED WITHIN FOUR WORKING DAYS OF PLACING THE TOPSOIL ON THE DE-COMPACTED CIVIL SUBGRADES. IF PLACED TOPSOIL IS NOT MULCHED WITH PERMANENT STABILIZATION MULCH WITHIN FOUR WORKING DAYS, THE CONTRACTOR SHALL COMPLETE INTERIM STABILIZATION METHODS IN ACCORDANCE WITH SUBSECTION 208.04(E) AT NO ADDITIONAL COST TO THE DEPARTMENT.
2. COMPLETE PERMANENT STABILIZATION MULCHING WITHIN 24 HOURS OF HYDRAULIC APPLICATION OF NATIVE SEED.
3. THE CONTRACTOR SHALL SUBMIT A PROPOSED PERMANENT STABILIZATION PHASING PLAN TO THE ENGINEER FOR APPROVAL SHOWING HOW IMPLEMENTATION OF SWMP PERMANENT STABILIZATION PLANS WILL MINIMIZE DAMAGE TO SEEDED AREAS.

E. SOIL AMENDMENT REQUIREMENTS: AT LEAST 200 LBS OF HUMATE OR 300 LBS OF FERTILIZER SHOULD BE APPLIED PER ACRE OF DISTURBED SOIL PRIOR TO SEEDING.

F. PERMANENT STABILIZATION APPLICATION UNDER STRUCTURES: UNDER STRUCTURES SHADE PATTERNS SHOULD BE CONSIDERED AND THE USE OF MEDIAN COVER MATERIAL (STONE) OR OTHER STABILIZED OPTIONS WITH AN APPROVED PROJECT SPECIAL PROVISION SHOULD BE USED. SEE SWMP SITE MAP FOR LOCATIONS.

G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:
PRIOR TO PARTIAL ACCEPTANCE.

1. ALL SEEDED AREAS SHALL BE REVIEWED DURING THE 7 DAY INSPECTIONS BY THE SWMP ADMINISTRATOR FOR CONSTRUCTION AND OR EROSION CONTROL INSPECTOR FOR BARE SOILS CAUSED BY SURFACE OR WIND EROSION. BARE AREAS CAUSED BY SURFACE OR GULLY EROSION, BLOWN AWAY MULCH, ETC. SHALL BE RE-GRADED, SEEDED, AND HAVE THE DESIGNATED MULCHING APPLIED AS NECESSARY, AT NO ADDITIONAL COST TO THE PROJECT.
2. THE CONTRACTOR SHALL MAINTAIN SEEDING/MULCH/TACKIFIER/BLANKET/TRM, MOW TO CONTROL WEEDS OR APPLY HERBICIDE TO CONTROL WEEDS IN THE SEEDED AREAS UNTIL PARTIAL ACCEPTANCE OF THE STORMWATER CONSTRUCTION WORK.

H LOCATION AND DESCRIPTION OF PLANNED PERMANENT CONTROL MEASURES: IS PERMANENT WATER QUALITY REQUIRED. YES _X__ NO _____.

10. PRIOR TO PROJECT FINAL ACCEPTANCE

A. WHEN DIRECTED BY THE ENGINEER, REMOVAL AND DISPOSAL OF TEMPORARY CONTROL MEASURES SHALL BE INCLUDED IN THE COST OF WORK.
B. AT THE END OF THE PROJECT, ALL DITCH CHECKS SHALL CONSIST OF EITHER TEMPORARY EROSION LOGS (OR EQUIVALENT) OR PERMANENT RIPRAP.
C. ALL STORM DRAINS SHALL BE CLEANED PRIOR TO THE FINAL ACCEPTANCE OF THE PROJECT.
D. REFER TO SPECIFICATION 208.10 FOR ITEMS TO BE COMPLETED PRIOR TO REQUESTING PARTIAL ACCEPTANCE OF WATER QUALITY WORK.

11. NARRATIVES

CONTROL MEASURE MATRIXES DURING CONSTRUCTION:

1. CONTROL MEASURE NARRATIVES HAVE BEEN INCLUDED FOR THE CDOT STANDARD SPECIFICATIONS AND STANDARD PLAN M-208 AND M-216 ALONG WITH ANY NON-STANDARD CONTROL MEASURES APPROVED DURING THE DESIGN PROCESS. IF A NON-STANDARD CONTROL MEASURE NOT INCLUDED IN THE SWMP IS PROPOSED AND APPROVED BY THE ENGINEER THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL DO THE FOLLOWING: PLACE AN "X" IN THE COLUMN FOR NON-STANDARD AND COMPLETE A NON-STANDARD CONTROL MEASURE SPECIFICATION AND NARRATIVE COVERING THE WHAT, WHEN, WHERE AND WHY THE CONTROL MEASURE IS BEING USED SHALL BE ADD TO THE SWMP. THE APPROPRIATE "X" SHALL ALSO BE ADDED TO THE IMPLEMENTATION PHASE(S).
2. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL PLACE AN "X" IN THE COLUMN IN USE ON SITE WHEN THE CONTROL MEASURE HAS BEEN INSTALLED.
3. A "B" IN THE INITIAL ACTIVITIES COLUMN INDICATES THAT THE CONTROL MEASURE SHALL BE INSTALLED **BEFORE** CONSTRUCTION ACTIVITY STARTS. LOCATIONS AND QUANTITIES WILL BE DISCUSSED DURING THE ENVIRONMENTAL PRE-CONSTRUCTION CONFERENCE WITH THE REGIONAL WATER POLLUTION CONTROL MANAGER.

STRUCTURAL CONTROL MEASURES THAT MAY BE POTENTIALLY USED ON THE PROJECT FOR EROSION AND SEDIMENT CONTROL; PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD OR "X" FOR NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
PROTECTION OF EXISTING WETLANDS FENCE (PLASTIC) AND EROSION LOGS	FENCE (PLASTIC) SHALL BE PLACED IN COMBINATION WITH EROSION LOGS TO PREVENT ENCROACHMENT OF CONSTRUCTION TRAFFIC AND SEDIMENT INTO STATE WATERS PRIOR TO START OF CONSTRUCTION DISTURBANCES. FENCE (PLASTIC) SHALL BE PLACED ADJACENT TO THE WETLANDS; EROSION LOGS SHALL BE PLACED BETWEEN THE PLASTIC FENCE AND DISTURBANCE AREA. LOGS SHALL BE PLACED TO DIRECT FLOWS AWAY FROM OR FILTER WATER RUNNING INTO WETLANDS FROM DISTURBANCE AREAS.			X	X	
PROTECTION OF EXISTING TREES/LANDSCAPING FENCE (PLASTIC)	FENCE (PLASTIC) SHALL BE USED IN AREAS INDICATED IN THE PLANS TO PREVENT ENCROACHMENT OF CONSTRUCTION TRAFFIC AND SEDIMENT FOR THE PROTECTION OF SENSITIVE HABITAT, MATURE TREES AND/OR EXISTING LANDSCAPING PRIOR TO START OF CONSTRUCTION DISTURBANCES.					
CHECK DAM/DITCH CHECK EROSION LOG, SILT BERM, SILT DIKE, ROCK CHECK DAM	PLACED IN DITCHES IMMEDIATELY UPON COMPLETION OF DITCH GRADING TO REDUCE VELOCITY OF RUNOFF IN DITCH. FOR EXISTING DITCHES, PLACE PRIOR TO START OF CONSTRUCTION DISTURBANCES.	M-208			X	
STORM DRAIN INLET PROTECTION IN PAVED ROADWAYS (TYPE 1, 2 AND 3 AS SHOWN ON M-208-1, SHEET 5 OF 11)	MANUFACTURED STORM DRAIN INLET PROTECTION PLACED PRIOR TO CONSTRUCTION DISTURBANCES AS DETAILED IN M-208-1, TO PROTECT EXISTING INLETS OR IMMEDIATELY UPON COMPLETION OF NEW INLETS TO PREVENT SEDIMENT FROM ENTERING THE INLET THROUGHOUT CONSTRUCTION.	M-208				
STORM DRAIN INLET PROTECTION IN NATIVE SEED AREAS (M-604 STANDARD INLETS TYPE C AND D)	EROSION LOGS OR AGGREGATE BAGS PLACED AROUND INLET GRATE TO PREVENT SEDIMENT FROM ENTERING INLET. PLACE PRIOR TO CONSTRUCTION DISTURBANCES TO PROTECT EXISTING INLETS OR IMMEDIATELY UPON COMPLETION OF NEW INLETS.	M-208				
CULVERT INLET/OUTLET PROTECTION EROSION LOGS, AGGREGATE BAGS	PLACED AT MOUTH OF CULVERT INLETS AND OVER TOP OF CULVERT AT INLET AND OUTLET WHERE DISTURBANCE MAY BE OCCURRING ADJACENT TO PIPE TO PREVENT SEDIMENT LADEN WATER FROM ENTERING PIPE OR DRAINAGE. PLACE PRIOR TO THE START OF CONSTRUCTION DISTURBANCES.	M-208		B	X	X
TYPE C, TYPE D AND TYPE 13 PROTECTION EROSION LOGS, AGGREGATE BAGS, EROSION BALES	PLACED AROUND INLET GRATE OR SLOPE AND DITCH PAVING TO PREVENT SEDIMENT FROM ENTERING INLET. PLACE PRIOR TO THE START OF CONSTRUCTION DISTURBANCES.	M-208				
*STOCKPILE PROTECTION TEMPORARY BERM, EROSION LOGS, AGGREGATE BAGS**	PLACED WITHIN SPECIFIED DISTANCE, IN ACCORDANCE WITH SUBSECTION 208.06, FROM TOE TO CONTAIN SEDIMENT AROUND STOCKPILE. *AGGREGATE BAGS ARE EASILY MOVED AND REPLACED FOR ACCESS DURING THE WORK DAY. PLACE PRIOR TO START OF STOCKPILING, INCREASE CONTROL AS THE STOCKPILE INCREASES SIZE.	M-208			X	
*TOE OF FILL PROTECTION EROSION LOGS, TEMPORARY BERM, SILT FENCE, TOPSOIL WINDROW**	PLACE PRIOR TO SLOPE/EMBANKMENT WORK TO CAPTURE SEDIMENT AND PROTECT AND DELINEATE UNDISTURBED AREAS. *CAN BE USED TO STOCKPILE TOPSOIL FOR SALVAGE.	M-208				
*PERIMETER CONTROL EROSION LOGS, SILT FENCE, TEMPORARY BERM, TOPSOIL WINDROW**	PLACED PRIOR TO CONSTRUCTION COMMENCING TO ADDRESS POTENTIAL RUN-ON WATER FROM OFF SITE, AND TO DIVERT AROUND DISTURBED AREA. *CAN BE USED TO STOCKPILE TOPSOIL FOR SALVAGE.	M-208				
SEDIMENT CONTROL/ SLOPE CONTROL SILT FENCE, EROSION LOGS	PLACED ON THE CONTOUR OF A SLOPE TO CONTAIN AND SLOW DOWN CONSTRUCTION RUNOFF. PLACE PRIOR TO THE START OF CONSTRUCTION DISTURBANCES.	M-208		X	X	
TEMPORARY SEDIMENT TRAP	USED TO CAPTURE SEDIMENT LADEN RUNOFF FROM DISTURBED AREAS < 5 ACRES DURING CONSTRUCTION. PLACE PRIOR TO THE START OF CONSTRUCTION DISTURBANCES. OUTLETS THAT WITHDRAW WATER FROM OR NEAR THE SURFACE MAY BE INSTALLED WHEN DISCHARGING FROM BASINS AND IMPOUNDMENTS.	M-208				
EMBANKMENT PROTECTION OR TEMPORARY SLOPE DRAIN	PLACED AS A CONDUIT OR CHUTE TO DRAIN RUNOFF DOWN SLOPE AND TO PREVENT EROSION OF SLOPE.	M-208				
OUTLET PROTECTION RIPRAP, OR APPROVED OTHER	MATERIAL PLACED AS AN ENERGY DISSIPATER TO PREVENT EROSION AT OUTLET STRUCTURE.	M-601-12			X	X

CONCRETE WASHOUT IN-GROUND OR FABRICATED	CONSTRUCTION CONTROL, USED FOR WASTE MANAGEMENT OF CONCRETE AND CONCRETE EQUIPMENT CLEANING. PLACE PRIOR TO THE START OF CONCRETE ACTIVITIES.	M-208				
VEHICLE TRACKING PAD	SOURCE CONTROL, PLACED TO PREVENT TRACKING OF SEDIMENT FROM DISTURBED AREA TO OFFSITE SURFACE. PLACE PRIOR TO THE START OF CONSTRUCTION DISTURBANCES.	M-208		X	X	
ENGINEERED SEDIMENT BASIN	CONSTRUCTED EARLY IN THE PROJECT, PRIOR TO STORM SEWER/DITCHES AND IN ACCORDANCE WITH 208.05(P) TO CAPTURE STORM FLOW. OUTLET STRUCTURE AND/OR OUTFALL SHALL BE MODIFIED FOR TEMPORARY SEDIMENT CONTROL USING AN APPROVED NON-STANDARD DETAIL. OUTLETS THAT WITHDRAW WATER FROM OR NEAR THE SURFACE SHALL BE INSTALLED WHEN DISCHARGING FROM BASINS AND IMPOUNDMENTS, UNLESS INFEASIBLE					
DEWATERING (CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PERMIT FROM COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT.)	SHALL BE DONE IN SUCH A MANNER TO PREVENT POTENTIAL POLLUTANTS FROM ENTERING STATE WATERS.					
TEMPORARY STREAM CROSSING	CONSTRUCTED OVER STREAM OR DRAINAGE TO PREVENT DISCHARGE OF POLLUTANTS FROM CONSTRUCTION EQUIPMENT INTO WATER.					
CLEAN WATER DIVERSION	PLACED TO DIVERT CLEAN SURFACE OR GROUNDWATER AROUND THE DISTURBANCE AREA TO PREVENT IT FROM MIXING WITH CONSTRUCTION RUNOFF.					
OTHER						

NON-STRUCTURAL CONTROL MEASURES THAT MAY BE POTENTIALLY USED ON THE PROJECT FOR EROSION AND SEDIMENT CONTROL; PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO:
EROSION CONTROL DEVICES ARE USED TO LIMIT THE AMOUNT OF SOIL LOSS ON SITE. SEDIMENT CONTROL DEVICES ARE DESIGNED TO CAPTURE SEDIMENT ON THE PROJECT SITE. CONSTRUCTION CONTROLS ARE CONTROL MEASURES RELATED TO CONSTRUCTION ACCESS AND STAGING. CONTROL MEASURE LOCATIONS ARE INDICATED ON THE SWMP SITE MAP.

* **USE OF VEGETATIVE BUFFER STRIP REQUIREMENTS.** THE CDPHE WATER QUALITY CONTROL DIVISION TECHNICAL MEMORANDUM DATED AUGUST 27, 2015 CLARIFIES THE REQUIREMENTS FOR UTILIZATION OF EXISTING VEGETATION AS A BUFFER TYPE OF SEDIMENT CONTROL MEASURE, WHILE MAINTAINING COMPLIANCE WITH THE CDPS PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY – CDPS PERMIT NO. COR4000000. IN GENERAL, THE DIVISION DOES NOT RECOMMEND THAT VEGETATED BUFFERS BE IMPLEMENTED AS A SEDIMENT REMOVAL CONTROL MEASURE FOR RUNOFF FROM DISTURBED AREAS AT CONSTRUCTION SITES, UNLESS IMPLEMENTED AS A "FINISHING" COMPONENT OF A TREATMENT TRAIN COMPRISED OF ADDITIONAL, ADEQUATE UP-GRADIENT CONTROL MEASURES. THE ENTIRE MEMORANDUM CAN BE FOUND AT: **HTTPS://WWW.COLORADO.GOV/PACIFIC/SITES/DEFAULT/FILES/VEGETATIVE%20BUFFER%20MEMO.PDF**

APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD OR "FOR NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
** VEGETATIVE BUFFER STRIP FENCE (PLASTIC)*	FINISHING COMPONENT FOR FILTERING SEDIMENT-LADEN RUNOFF FROM DISTURBANCE AREA. AREA WITHIN CDOT ROW OR TEMPORARY EASEMENT TO BE IDENTIFIED ON SWMP PRIOR TO CONSTRUCTION STARTING.			X	X	X
GRADING APPLICATIONS (LANDFORM)	EXISTING OR CREATED LANDFORMS MAY BE USED AS A CONTROL MEASURE IF THEY PREVENT SEDIMENT FROM ENTERING OR LEAVING THE DISTURBANCE AREA. IF A LANDFORM DIRECTS FLOW OF WATER TO A CONCENTRATED OUTFALL POINT, THE OUTFALL POINT SHALL BE PROTECTED TO PREVENT EROSION. AREA TO BE IDENTIFIED ON SWMP PRIOR TO CONSTRUCTION STARTING.	M-208		X	X	
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE WINDROW OR STOCKPILE	PRIOR TO ANY SITE DISTURBANCE WORK COMMENCING, EXISTING TOPSOIL SHALL BE SCRAPED TO A DEPTH SIX INCHES OR AS SPECIFIED, AND PLACED IN STOCKPILES OR WINDROWS. UPON COMPLETION OF FINAL GRADING, TOPSOIL SHALL BE EVENLY DISTRIBUTED OVER EMBANKMENT TO A DEPTH OF SIX INCHES OR AS SPECIFIED.	M-208		X	X	X
SURFACE ROUGHENING / GRADING TECHNIQUES	TEMPORARY STABILIZATION OF DISTURBANCE AND TO MINIMIZE WIND AND EROSION.				X	
SEEDING (TEMPORARY)	TEMPORARY STABILIZATION USED FOR OVER WINTERING OF DISTURBANCE OR USED TO CONTROL EROSION FOR AREAS SCHEDULED FOR FUTURE CONSTRUCTION.				X	
BONDED FIBER MATRIX OR MULCHING (HYDRAULIC)	NOT TO BE USED IN AREAS OF CONCENTRATED FLOWS, I.E. DITCH LINES. TO BE FOR EITHER INTERIM OR PERMANENT STABILIZATION PLACED AS A SURFACE COVER FOR EROSION CONTROL. MAY BE USED AS SURFACE COVER WHEN WORK IS TEMPORARILY HALTED AND AS APPROVED BY THE ENGINEER FOR STOCKPILES.					
STRAW OR HAY MULCH/MULCH TACKIFIER	INTERIM OR PERMANENT STABILIZATION PLACED AS A SURFACE COVER FOR EROSION CONTROL AND OR SEEDING ESTABLISHMENT. TO BE INSTALLED AS INTERIM STABILIZATION AS A SURFACE COVER WHEN WORK IS TEMPORARILY HALTED AND AS APPROVED BY THE ENGINEER				X	X
SPRAY-ON MULCH BLANKET (NOT TO BE USED IN AREAS OF CONCENTRATED FLOWS, I.E. DITCH LINES.)	INTERIM OR PERMANENT STABILIZATION PLACED AS A SURFACE COVER FOR EROSION CONTROL AND OR SEEDING ESTABLISHMENT. TO BE INSTALLED AS TEMPORARY SURFACE COVER WHEN WORK IS TEMPORARILY HALTED AND AS APPROVED BY THE ENGINEER					

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Sheet Revisions

	Date:	Comments	Init.
R-1	10/12/21	INITIAL SUBMITTAL	SLF

Pinyon Environmental, Inc.
3222 South Vance Street, Suite 200
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El Paso County Planning and Community Development Department
2880 International Circle,
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EROSION AND STORMWATER QUALITY CONTROL PLAN

SWMP NARRATIVE

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
N-6

Seeding Permanent (Native Perennial)	Permanent Stabilization Of Disturbance And To Reduce Runoff And Control Erosion On Disturbed Areas.					X
Soil Retention Blanket (Srb)	Permanent Stabilization Of Disturbance And To Reduce Runoff And Control Erosion On Disturbed Areas.	M-216			X	X
Turf Reinforcement Mat (Trm)	Permanent Stabilization Of Disturbance And To Reduce Runoff And Control Erosion On Disturbed Areas. Placed In Channels Or On Slopes For Erosion Control, Channel Liner And Seeding Establishment.	M-216				
Sweeping	Source Control, Used To Remove Sediment Tracked Onto Paved Surfaces And To Prevent Sediment From Entering Drainage System. Sweep Daily And At The End Of The Construction Shift As Needed. Kick Brooms Shall Not Be Permitted.			X	X	X
Other						

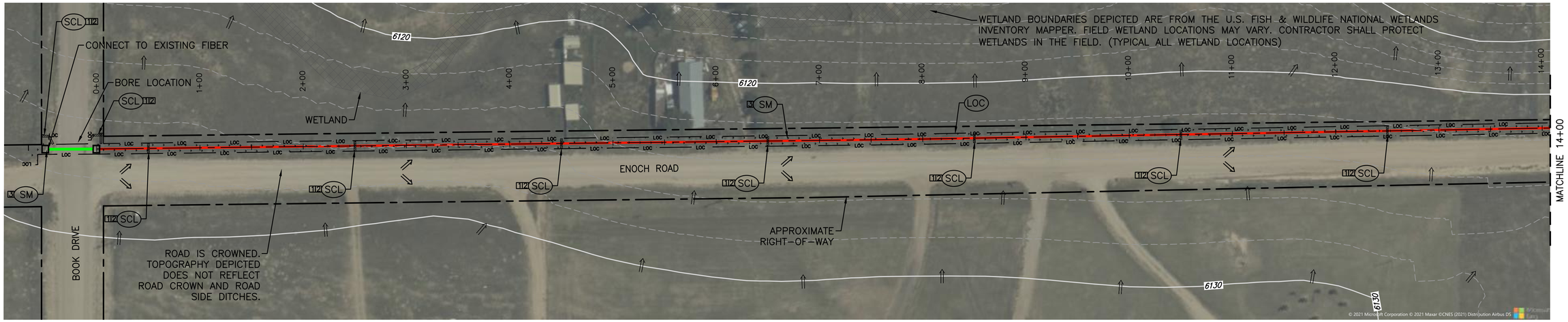
12. BIOLOGICAL IMPACTS AND DEWATERING

A. ENVIRONMENTAL IMPACTS:

1. WETLAND IMPACTS: NO
2. STREAM IMPACTS: NO
3. THREATENED AND ENDANGERED SPECIES: NO SPECIES ARE ANTICIPATED TO BE IMPACTED BY THE PROJECT.

A. DEWATERING: (NOT COVERED UNDER THE *CDPHE* GUIDANCE DOCUMENT *LOW RISK DISCHARGE GUIDANCE DISCHARGES OF UNCONTAMINATED GROUNDWATER TO LAND*): HTTPS://WWW.COLORADO.GOV/PACIFIC/SITES/DEFAULT/FILES/WQ%20LOW%20RISK%20GW.PDF

1. DEWATERING: REFER TO OTHER ENVIRONMENTAL PERMITS IN ACCORDANCE WITH SUBSECTION 107.02 AND THE PERMITS CONTAINED IN TAB 16 OF THE SWMP.
2. IF GROUNDWATER DOES NOT MEET WATER QUALITY STANDARDS FOR RECEIVING WATER A SEPARATE CDPS DEWATERING PERMIT SHALL BE OBTAINED BY THE CONTRACTOR FROM CDPHE IN ACCORDANCE WITH SUBSECTIONS 107.02 AND 107.25.



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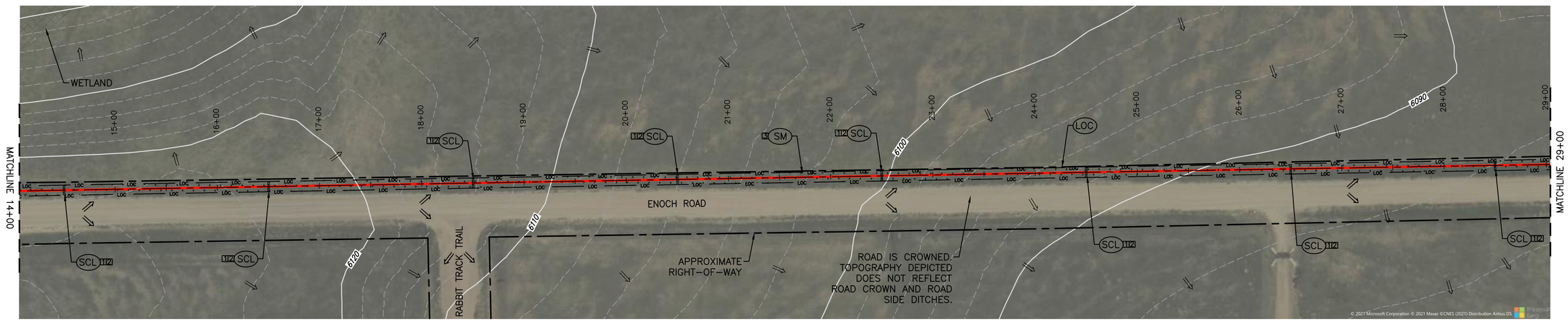

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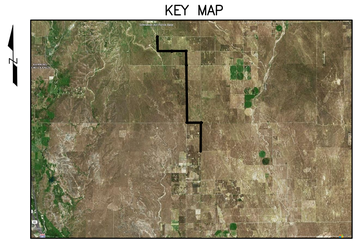
KEY MAP



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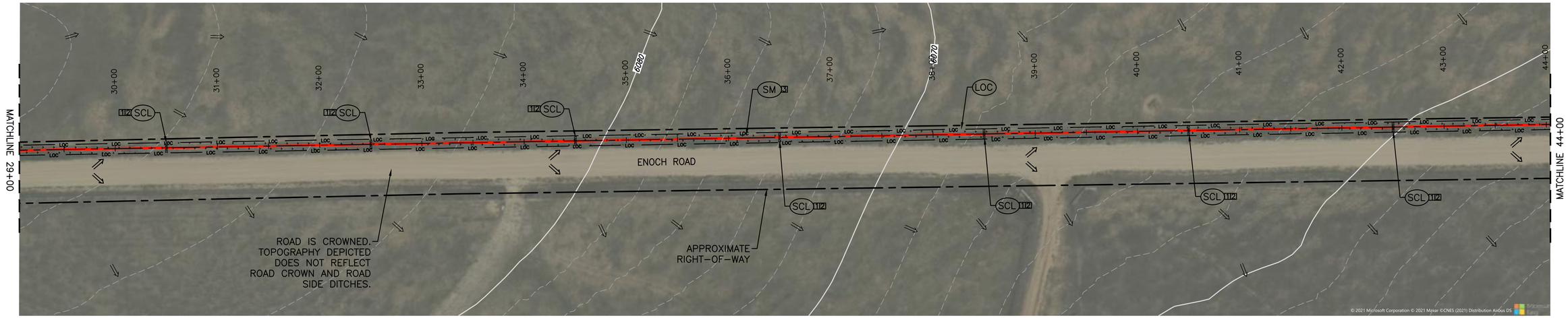

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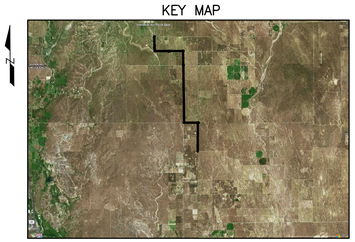

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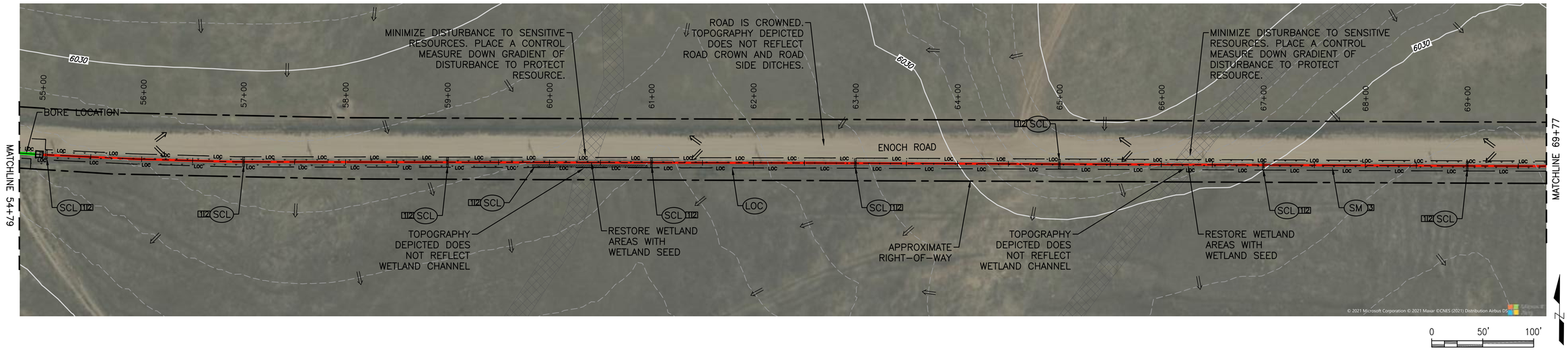

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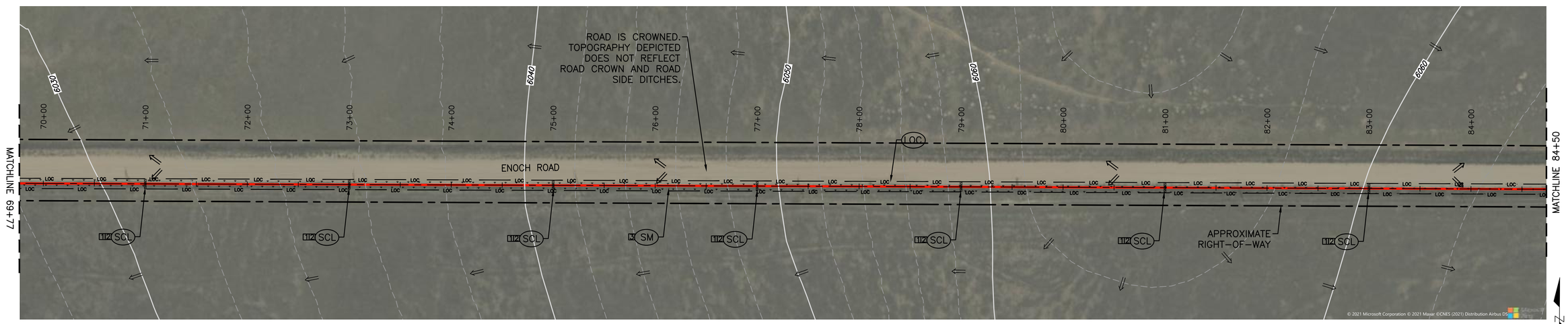

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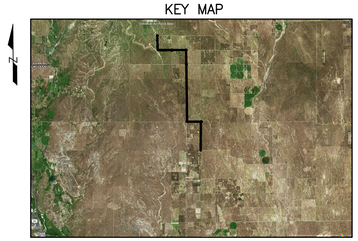

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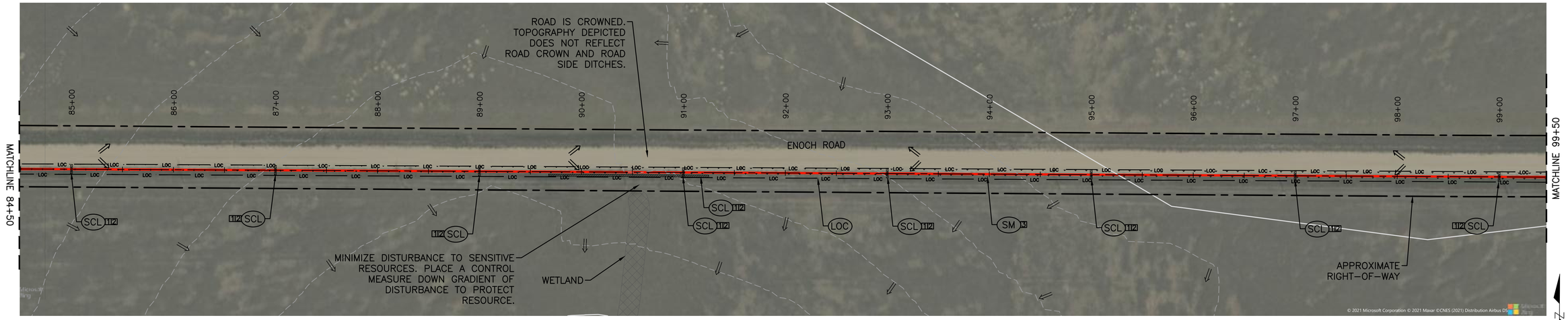

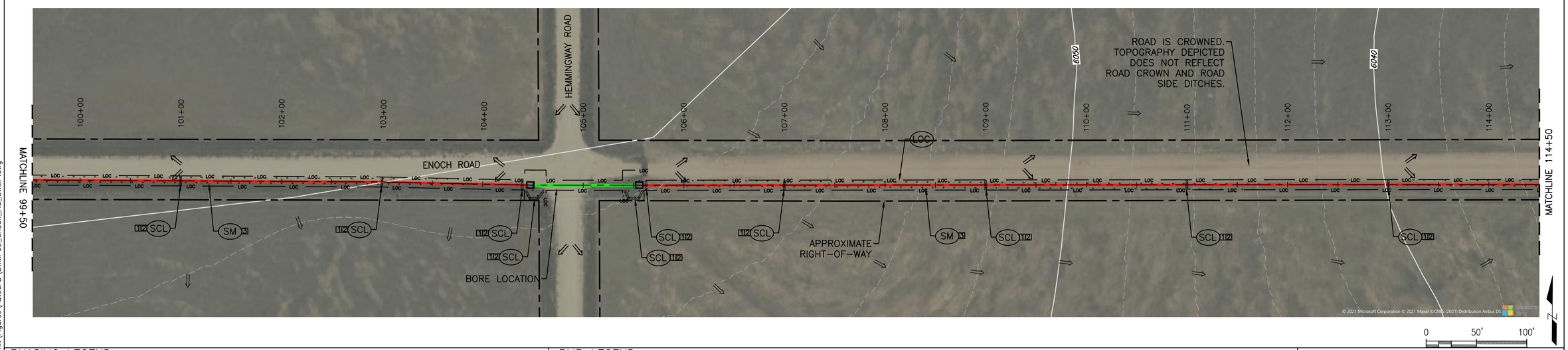

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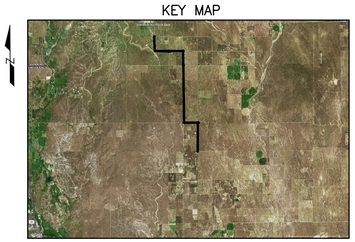

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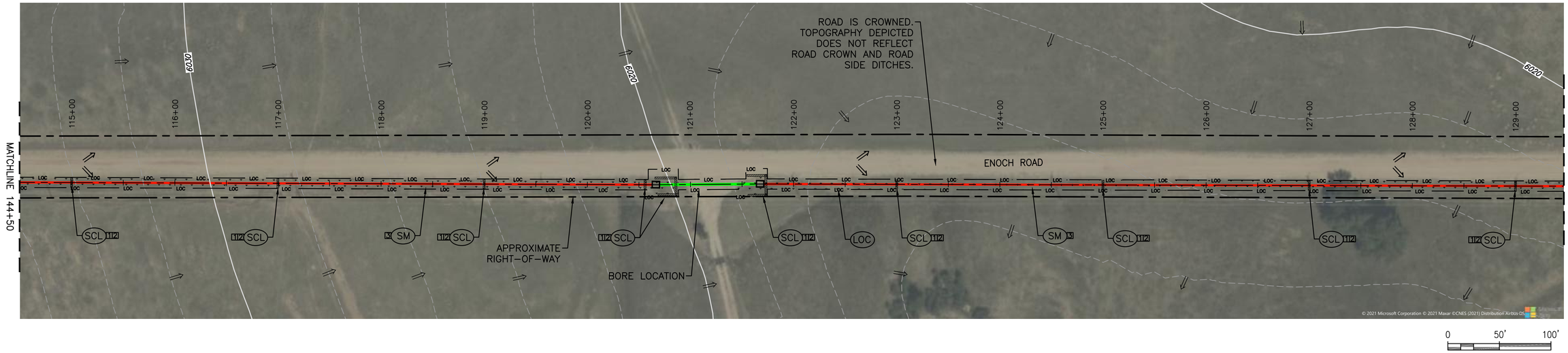

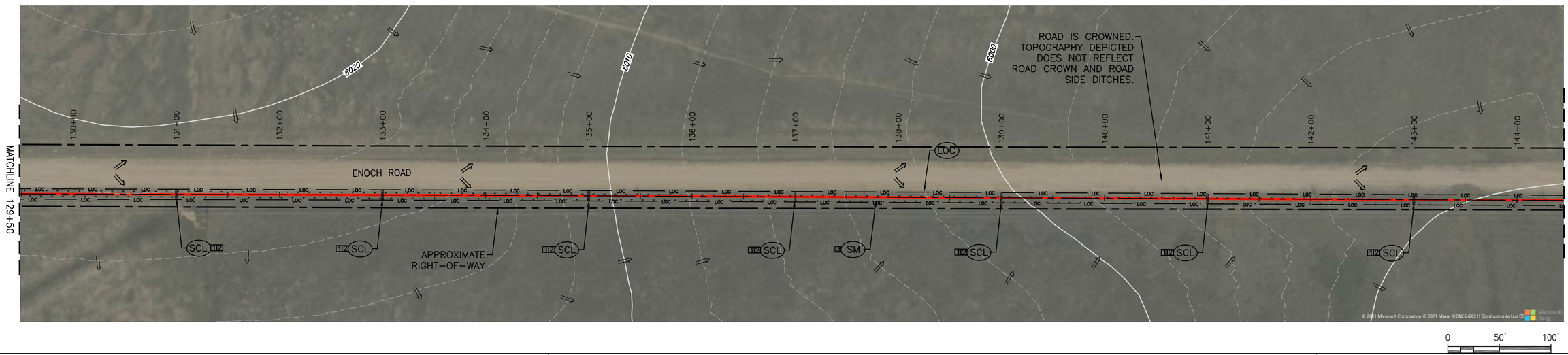

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CWD	CLEAN WATER DIVERSION	SSA	STABILIZED STAGING AREA AND ACCESS ROADS		NEW FIBER LINE OPEN TRENCH		BORE PIT
EB	EARTHEN BERM	ST	SEDIMENT TRAP		TRENCH AREA BORED LINE		STORM DRAIN INLET
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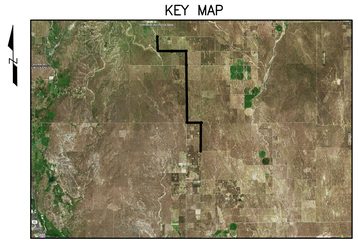
KEY MAP



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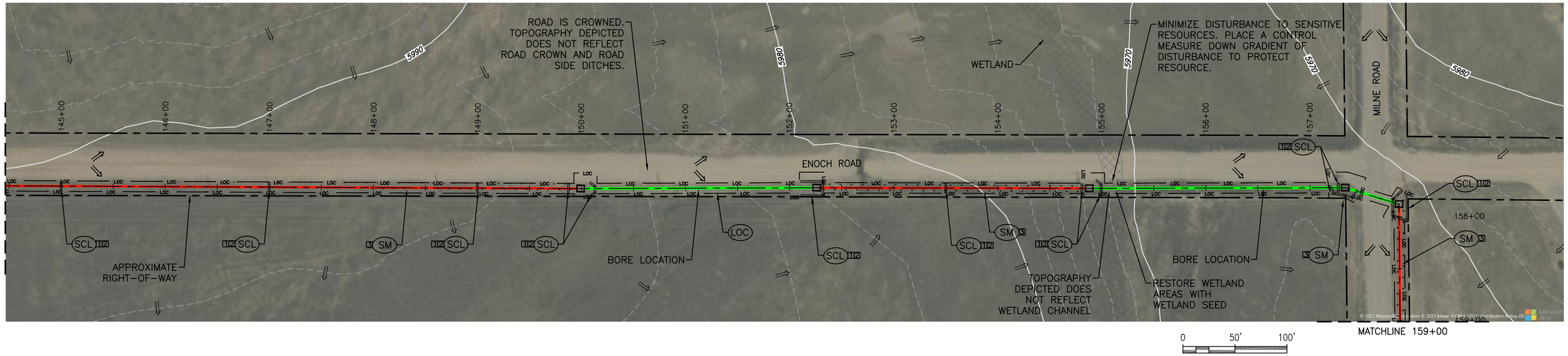
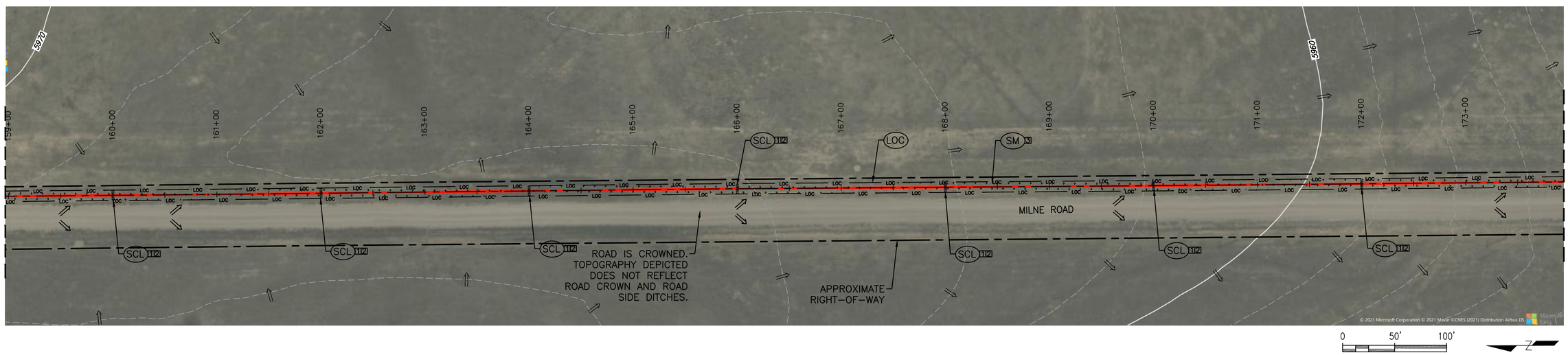
EROSION AND STORMWATER QUALITY CONTROL PLAN

ESQCP SITE MAPS

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
G-5





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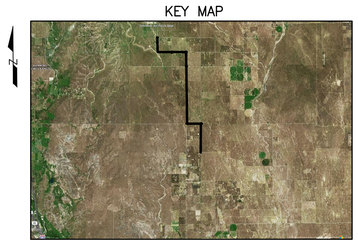

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Designer: S. FANELLO
Detailer: S. ADAMITIS

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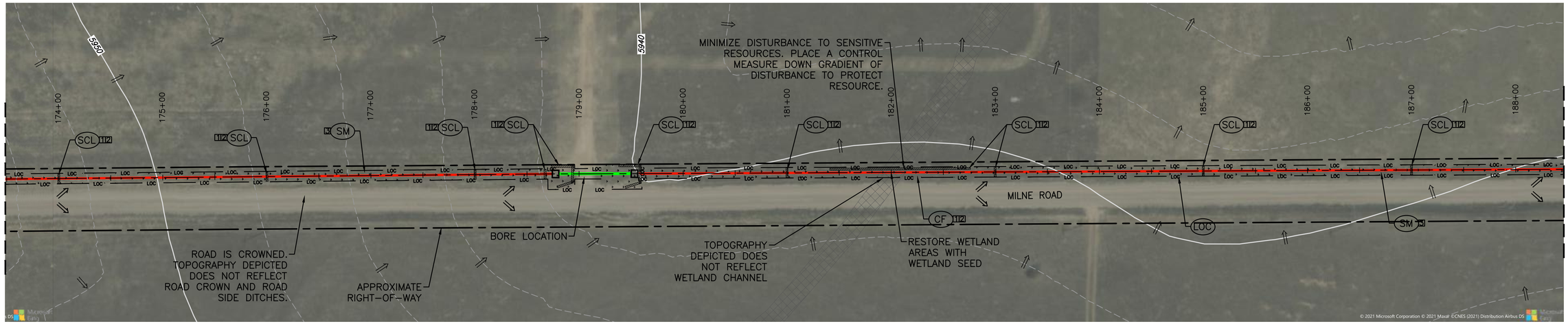

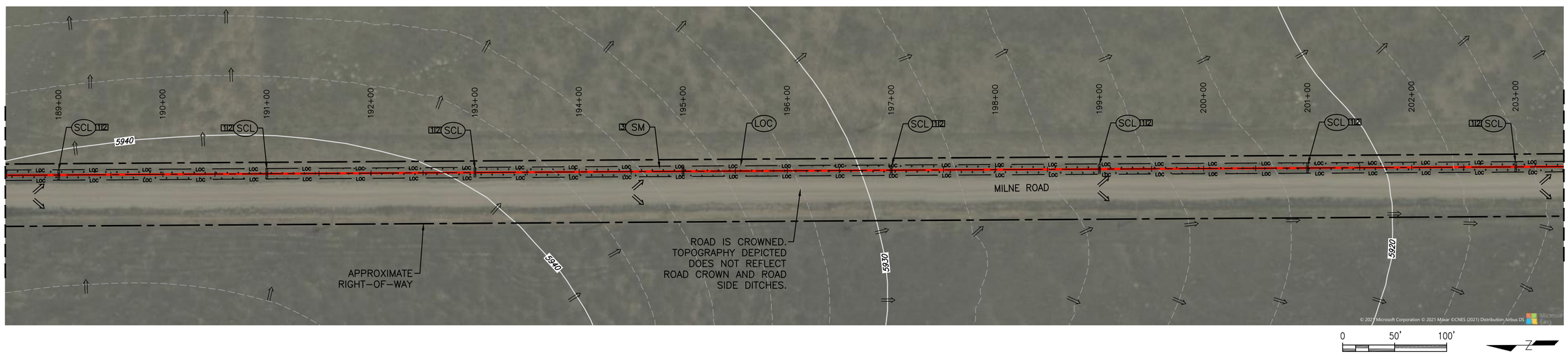

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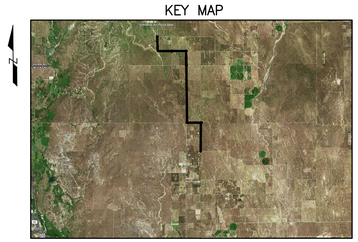

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Designer: S. FANELLO
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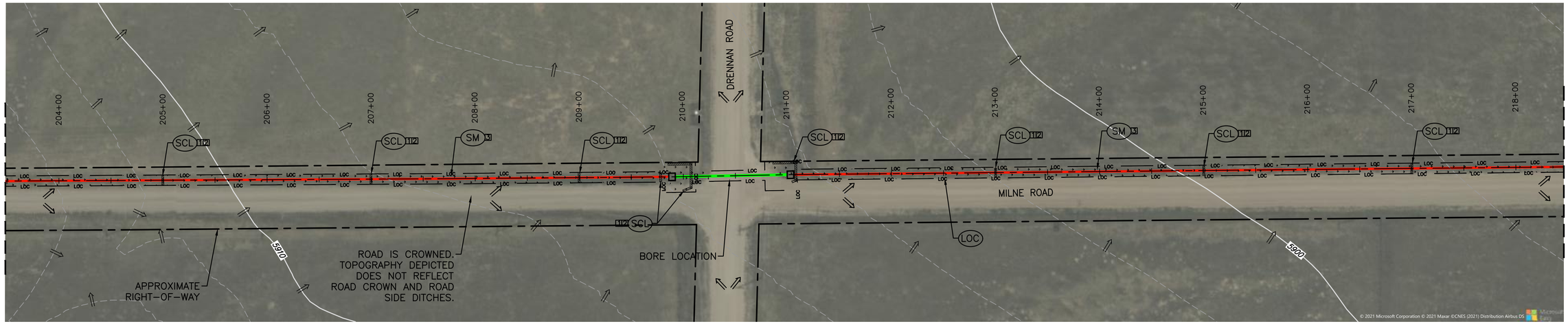

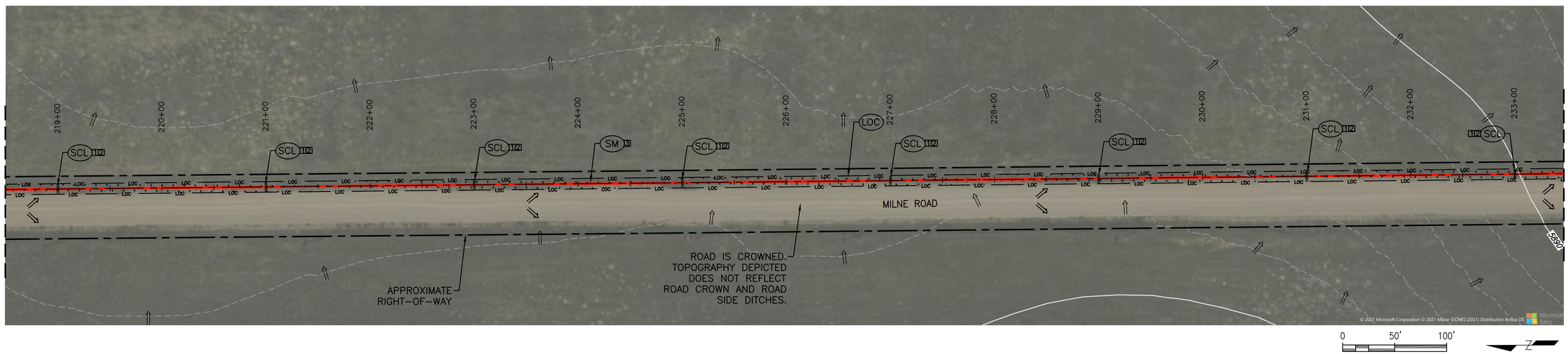

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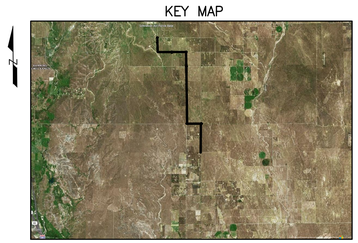
KEY MAP



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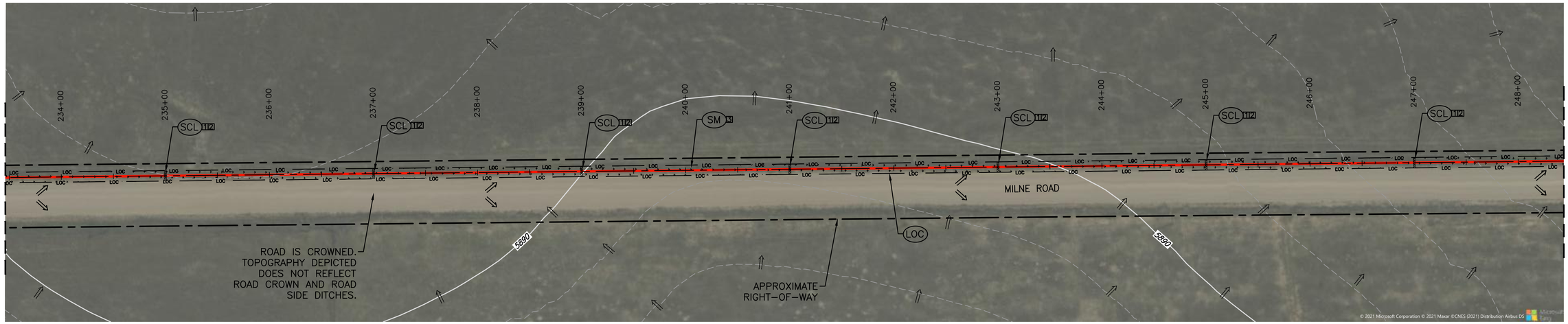

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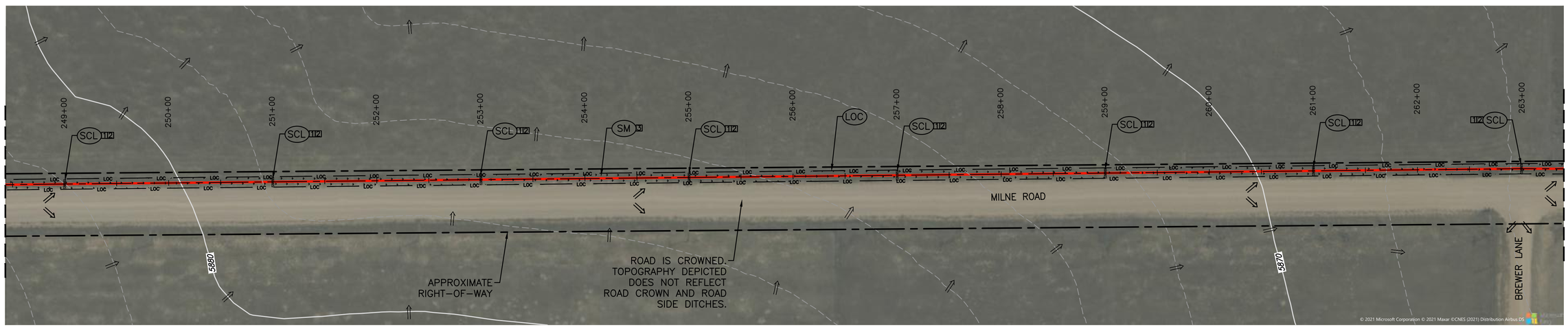

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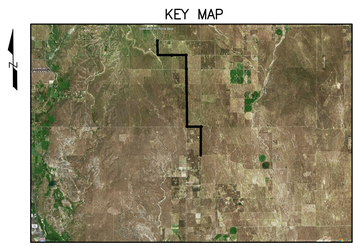

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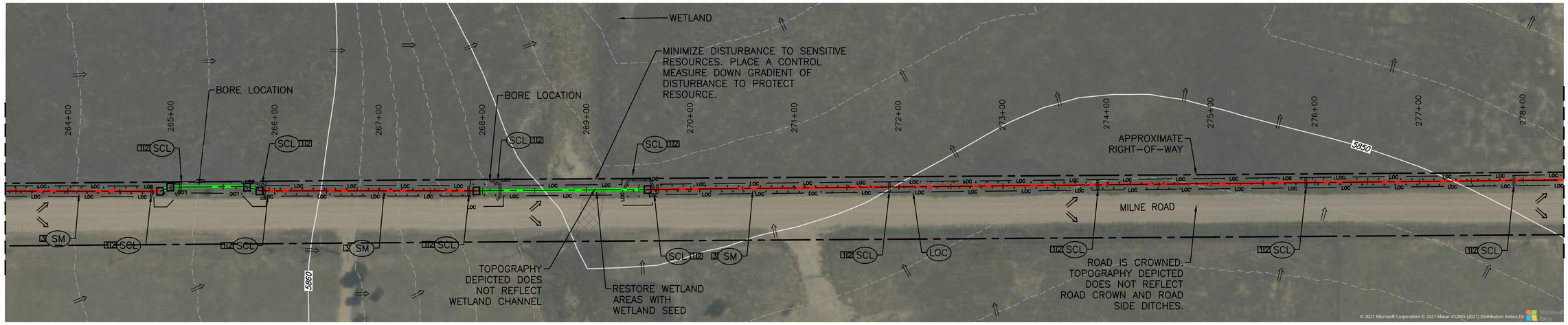

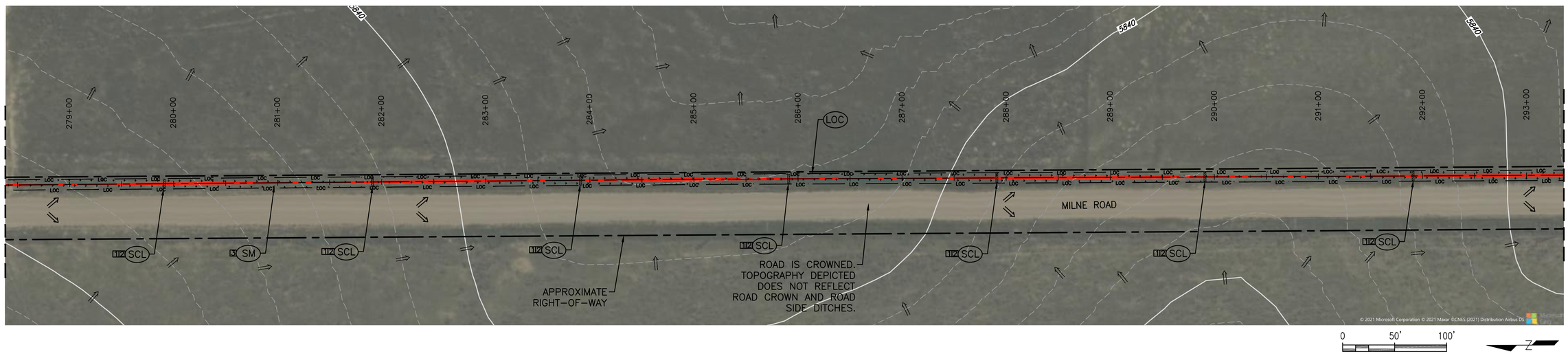

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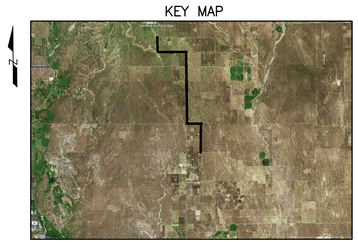

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El Paso County Colorado EST. 1861
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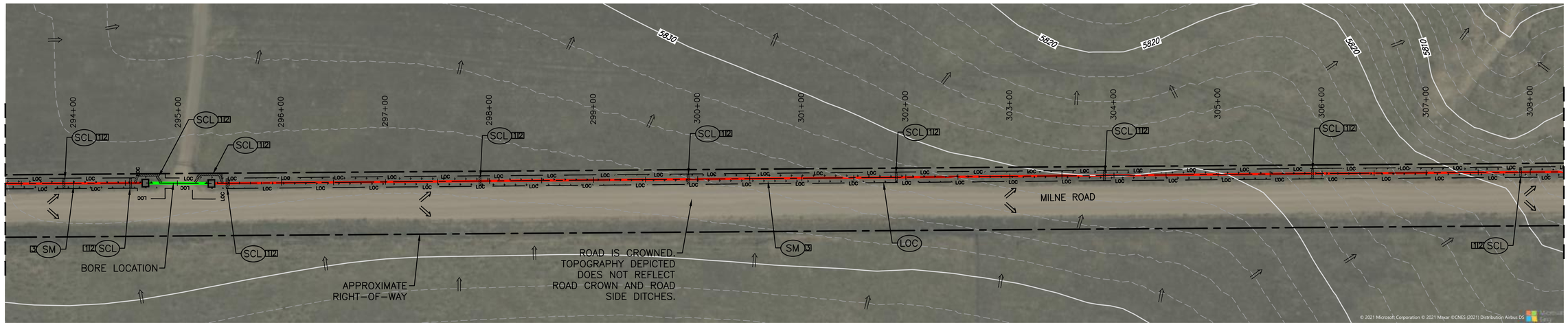
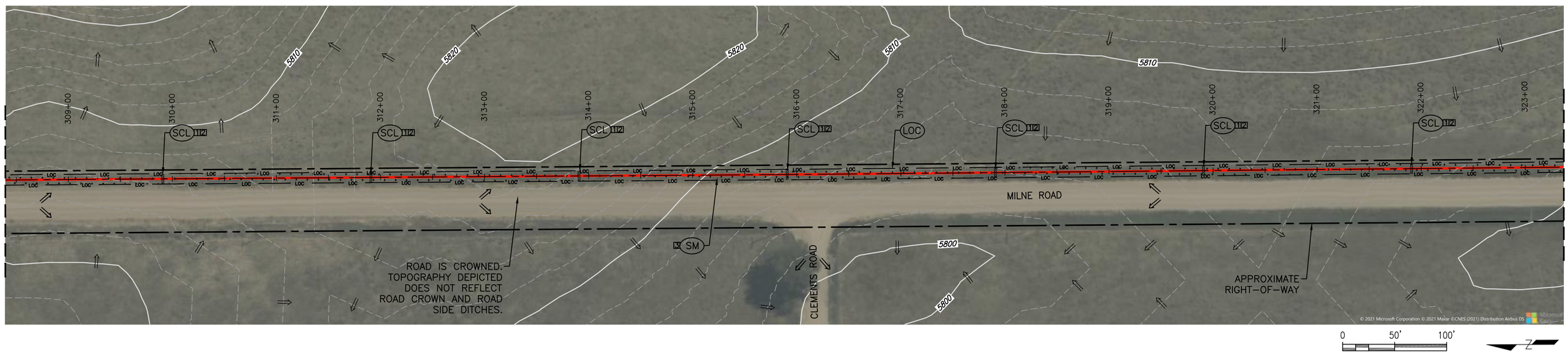
EROSION AND STORMWATER QUALITY CONTROL PLAN

ESQCP SITE MAPS

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
G-10





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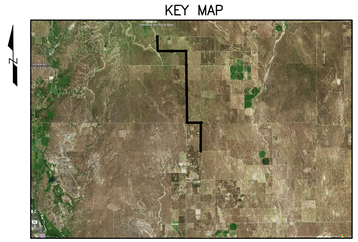

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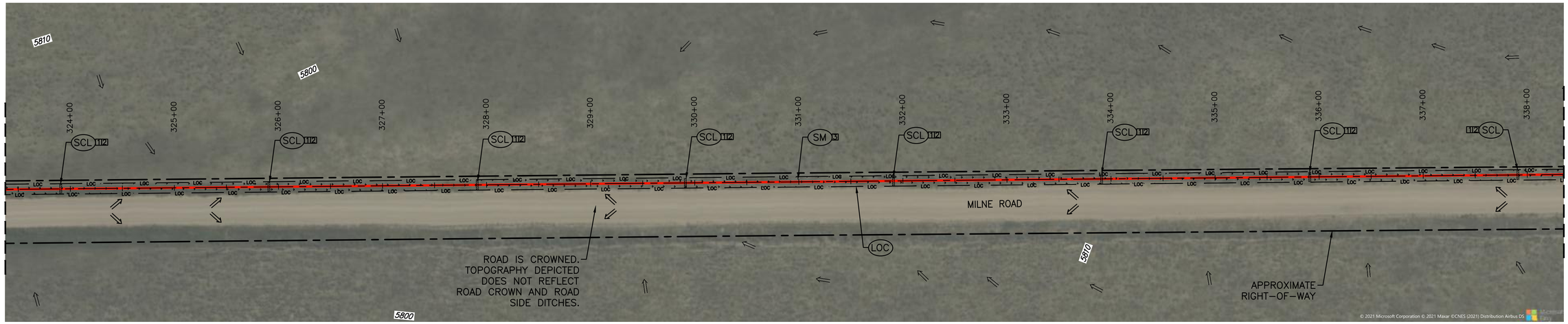

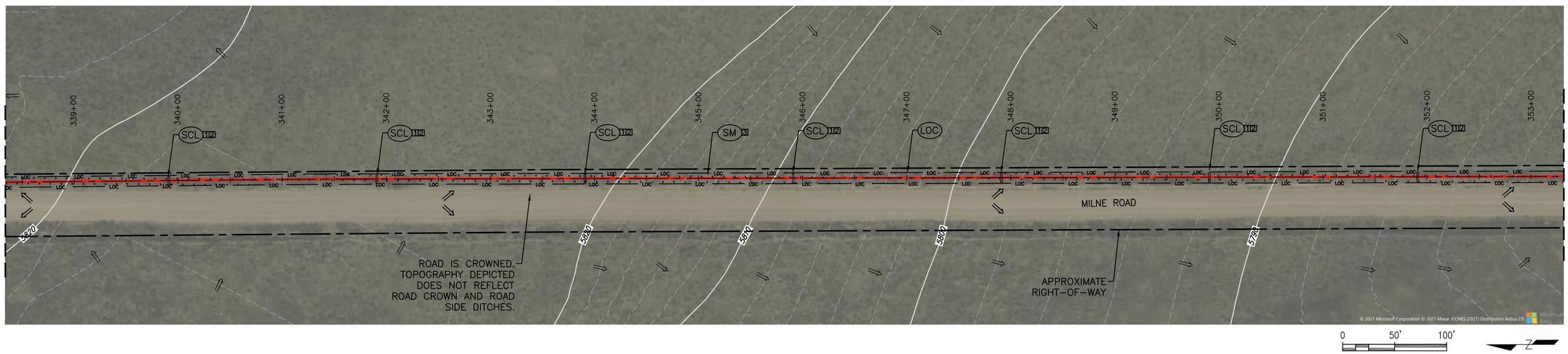

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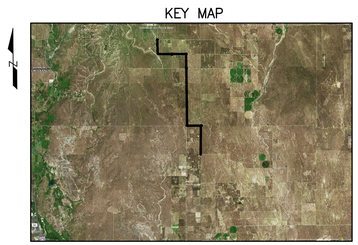

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Designer: S. FANELLO
Detailer: S. ADAMITIS

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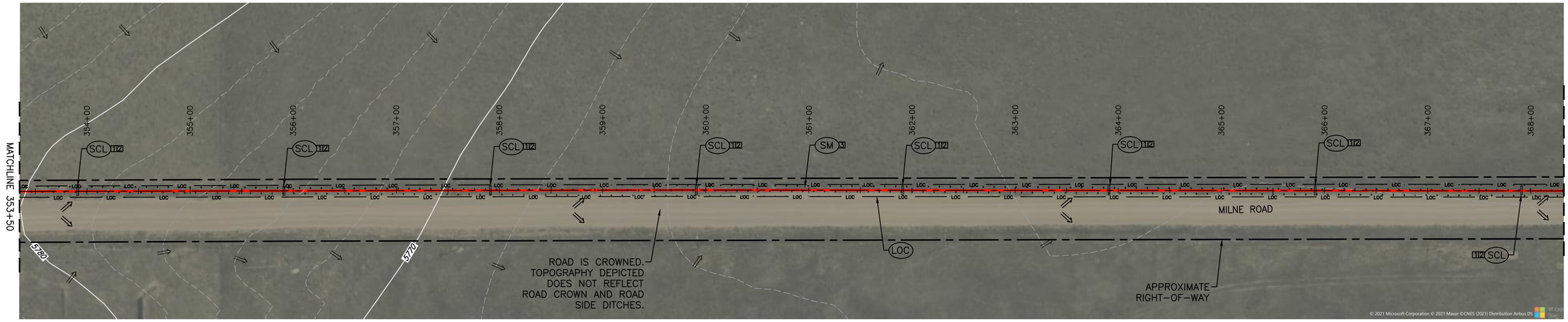
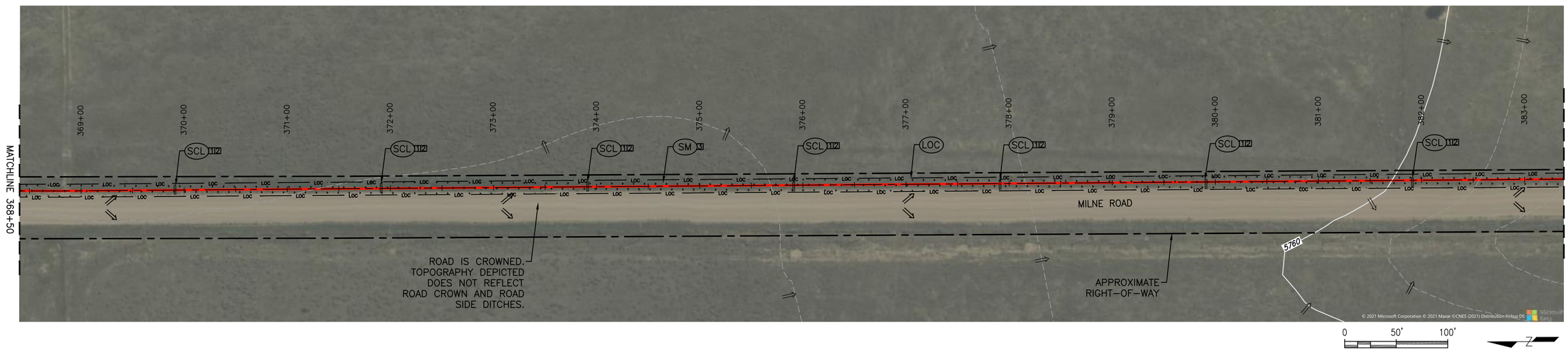
G-12





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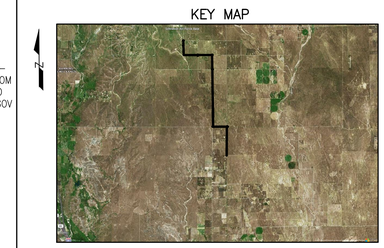

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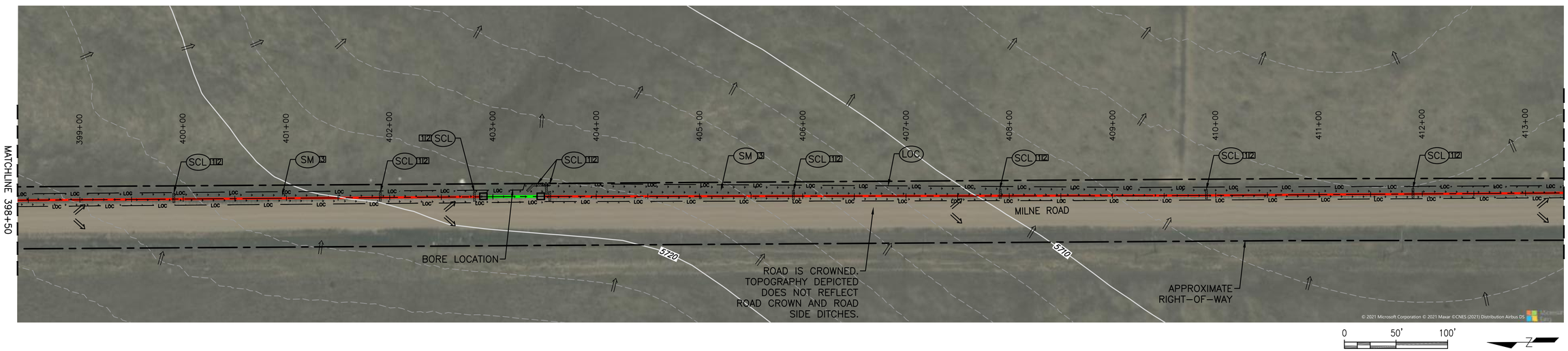

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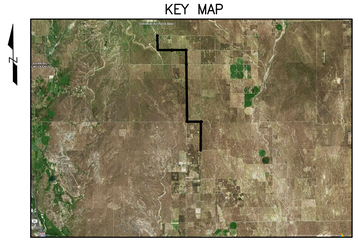

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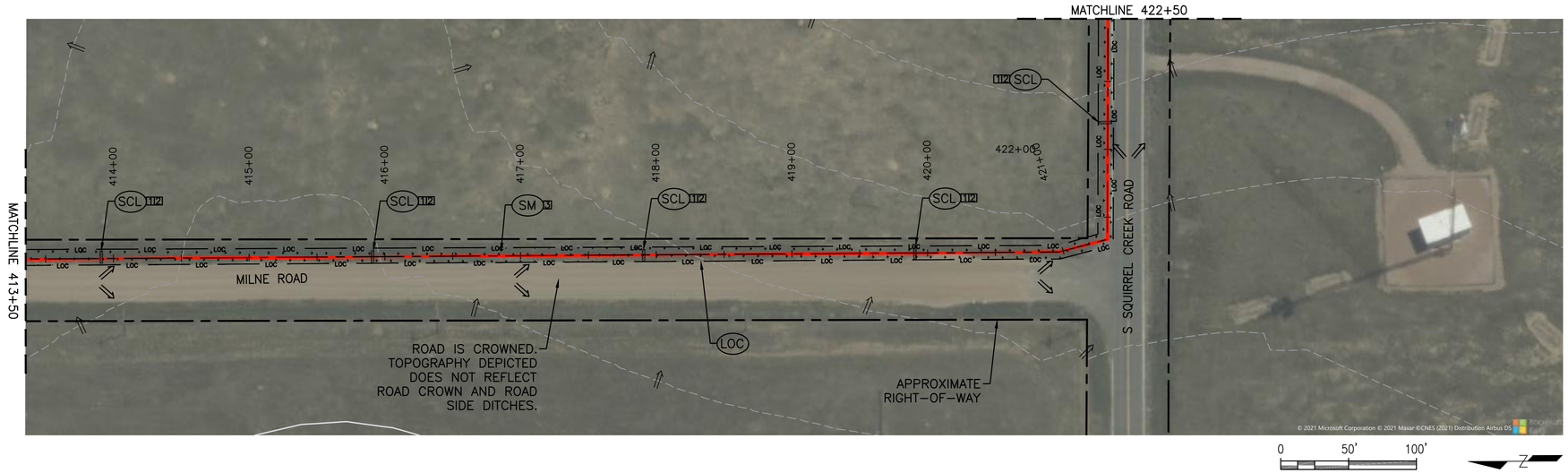

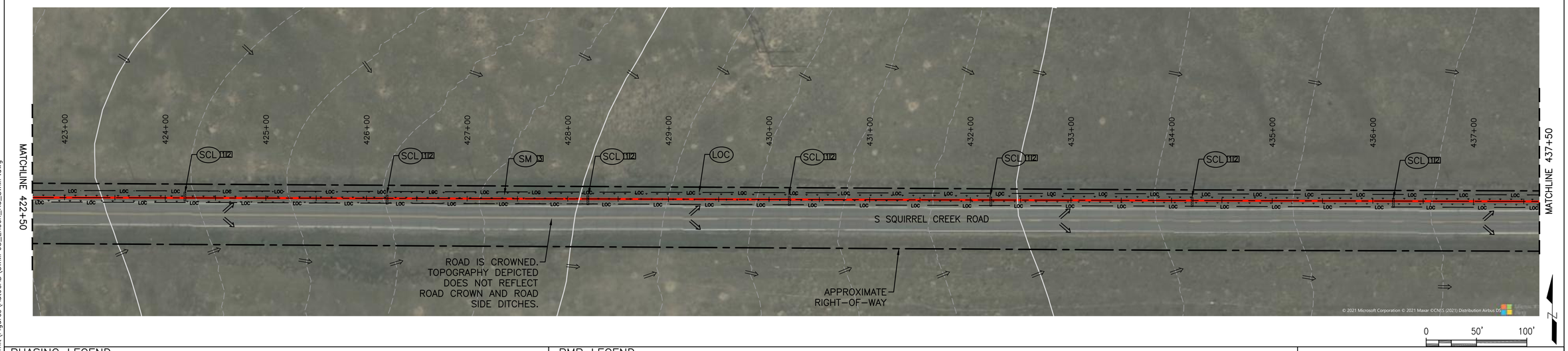

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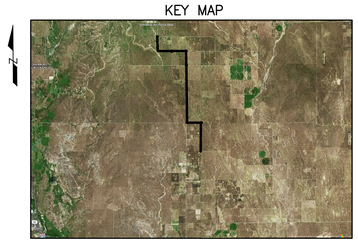

Sheet Revisions			
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R-1	10/12/2021	INITIAL SUBMITTAL	SLF

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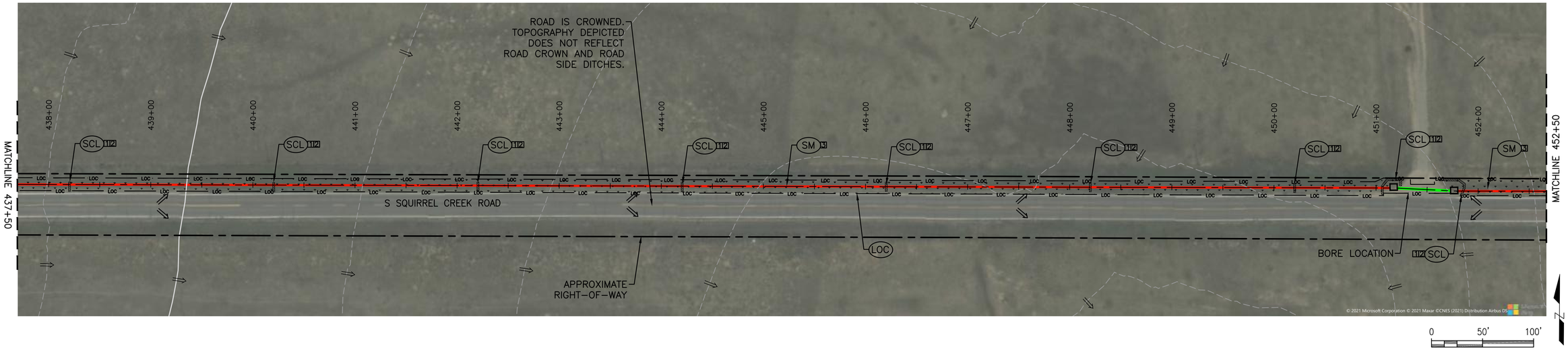
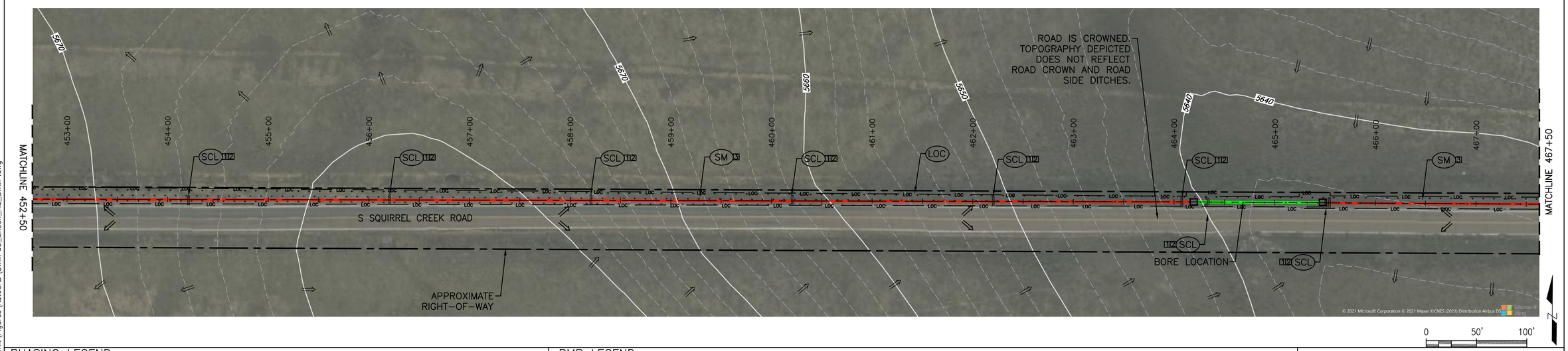
EROSION AND STORMWATER QUALITY CONTROL PLAN

ESQCP SITE MAPS

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
G-15





PHASING LEGEND

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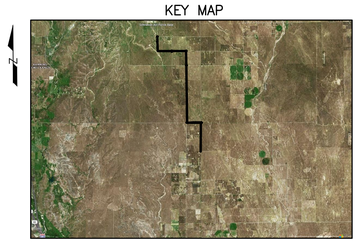

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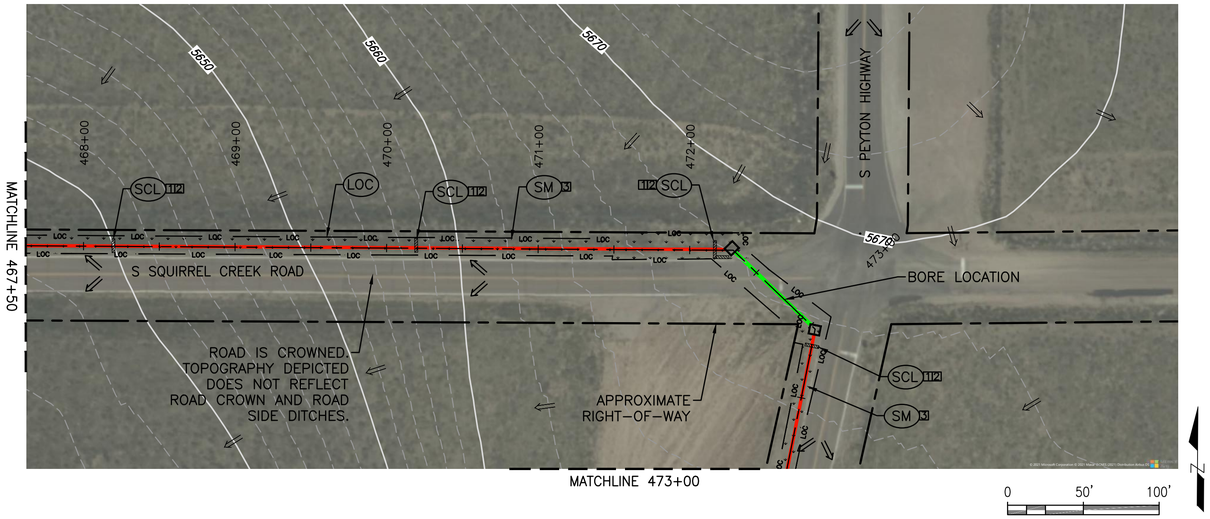
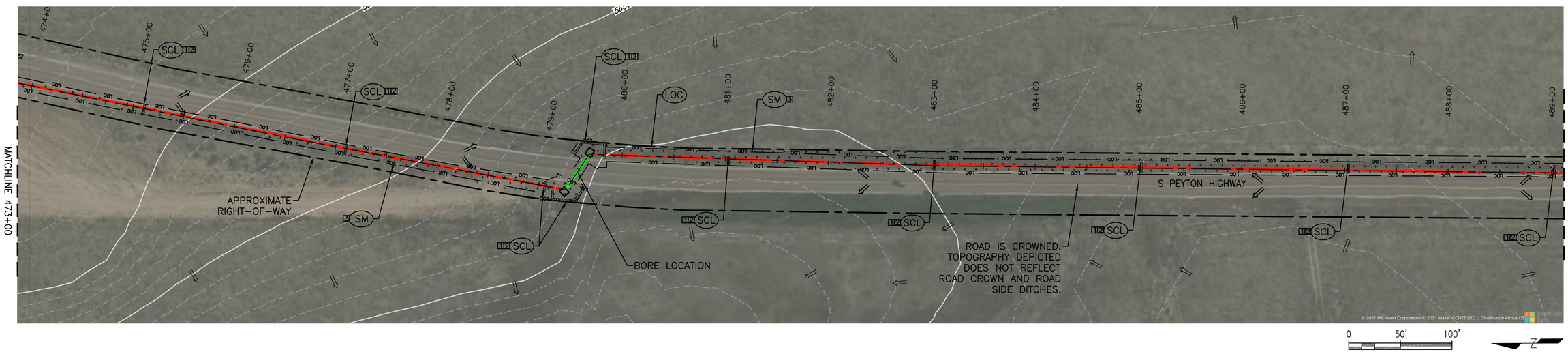
ESQCP SITE MAPS

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
G-16





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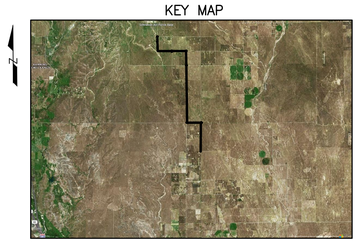

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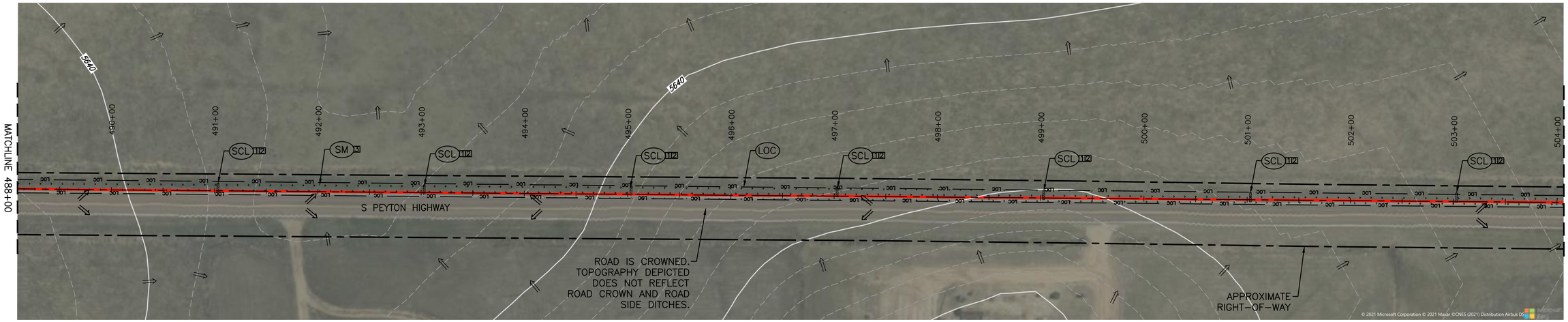
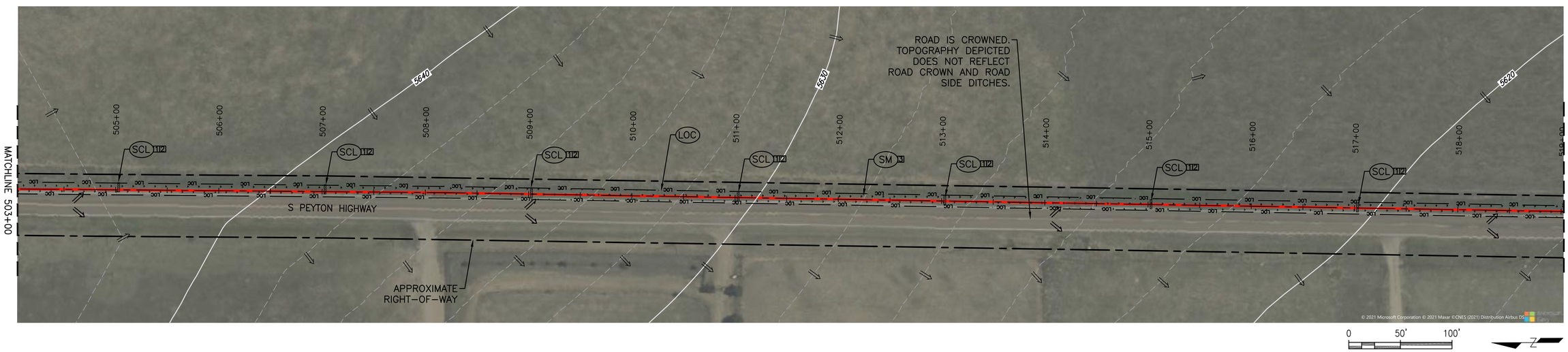
EROSION AND STORMWATER QUALITY CONTROL PLAN

ESQCP SITE MAPS

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
G-17





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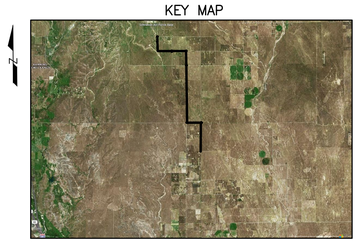

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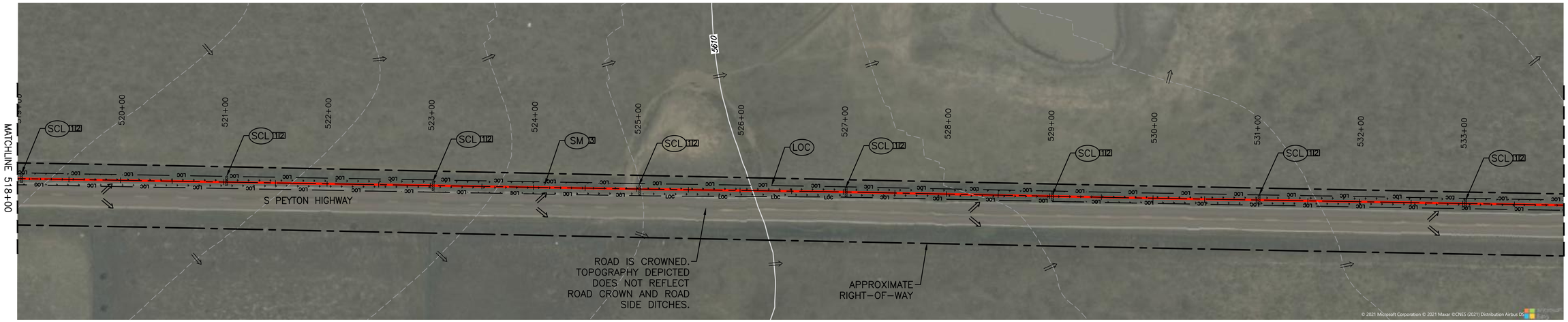
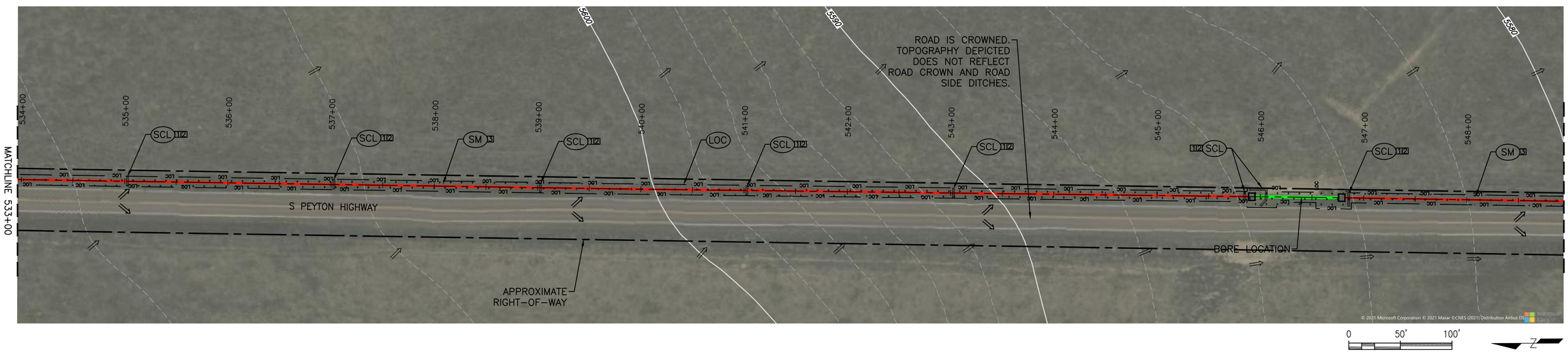
EROSION AND STORMWATER QUALITY CONTROL PLAN

ESQCP SITE MAPS

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
G-18





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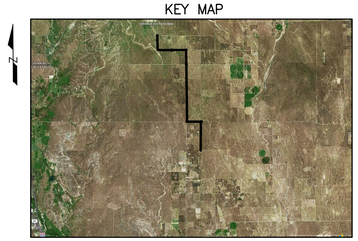

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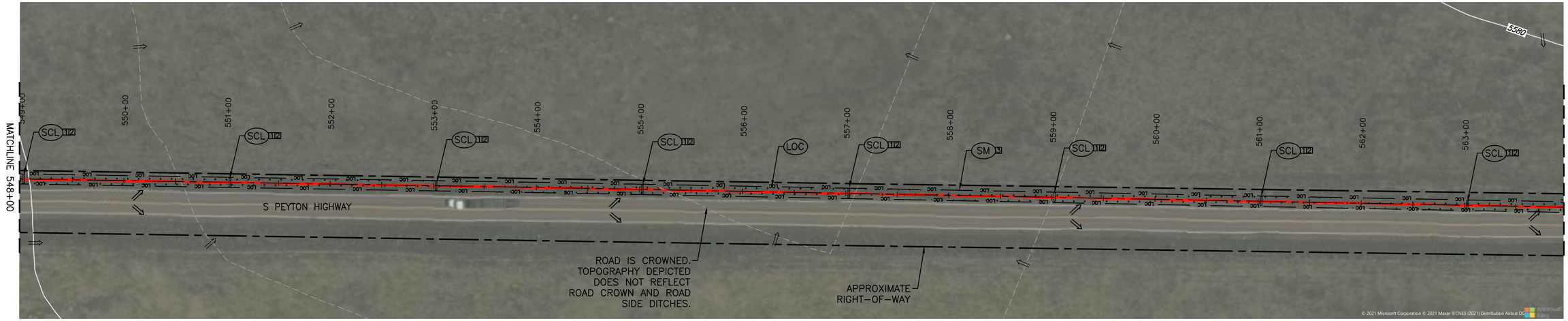

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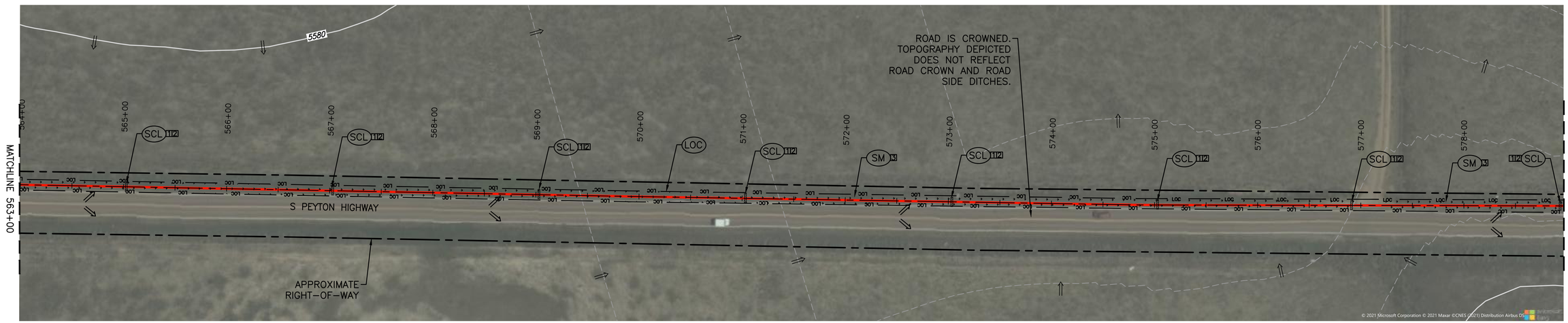

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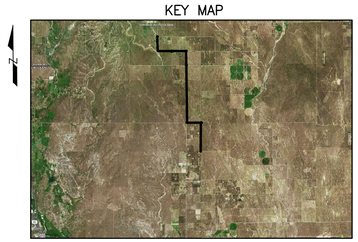

Sheet Revisions			
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R-1	10/12/2021	INITIAL SUBMITTAL	SLF

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EROSION AND STORMWATER QUALITY CONTROL PLAN

ESQCP SITE MAPS

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
G-20

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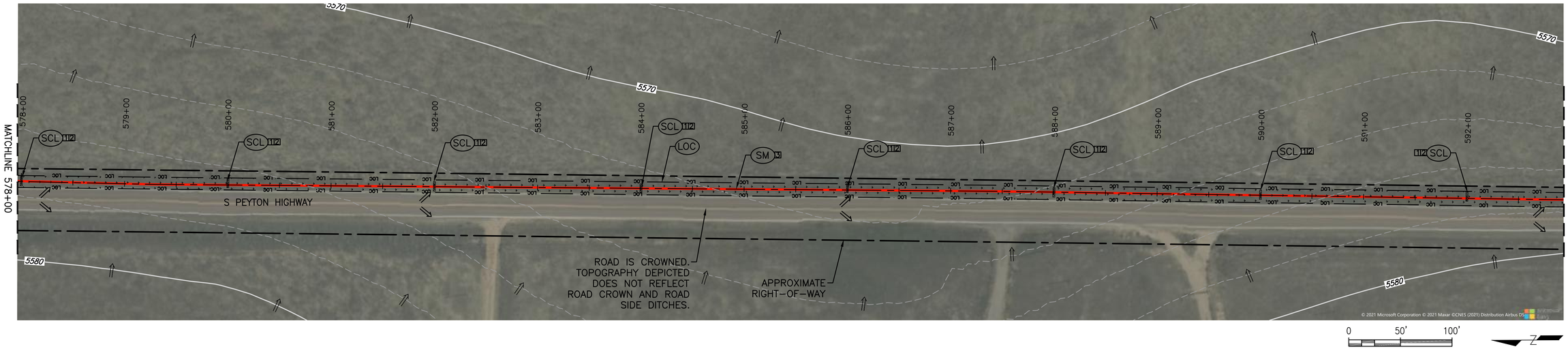

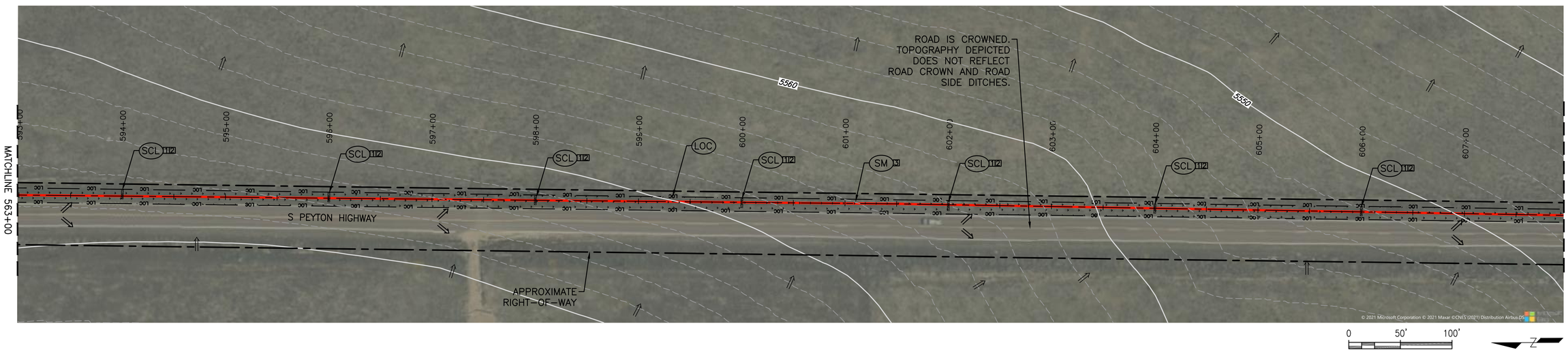

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CF	CF	CONSTRUCTION FENCE		PV	PROTECT EXISTING VEGETATION	TSP	TEMPORARY STOCKPILE
SF	SF	SILT FENCE		SM	SEEDING AND MULCHING	VTC	VEHICLE TRACKING CONTROL
	CWD	CLEAN WATER DIVERSION		SSA	STABILIZED STAGING AREA AND ACCESS ROADS		NEW FIBER LINE OPEN TRENCH
	EB	EARTHEN BERM		ST	SEDIMENT TRAP		TRENCH AREA BORED LINE
LOC	LOC	LIMITS OF CONSTRUCTION / DISTURBANCE		CS	CURB SOCK		FLOW DIRECTION
	ECB	EROSION CONTROL BLANKET – STRAW / COCONUT					

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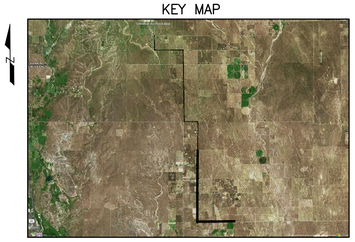

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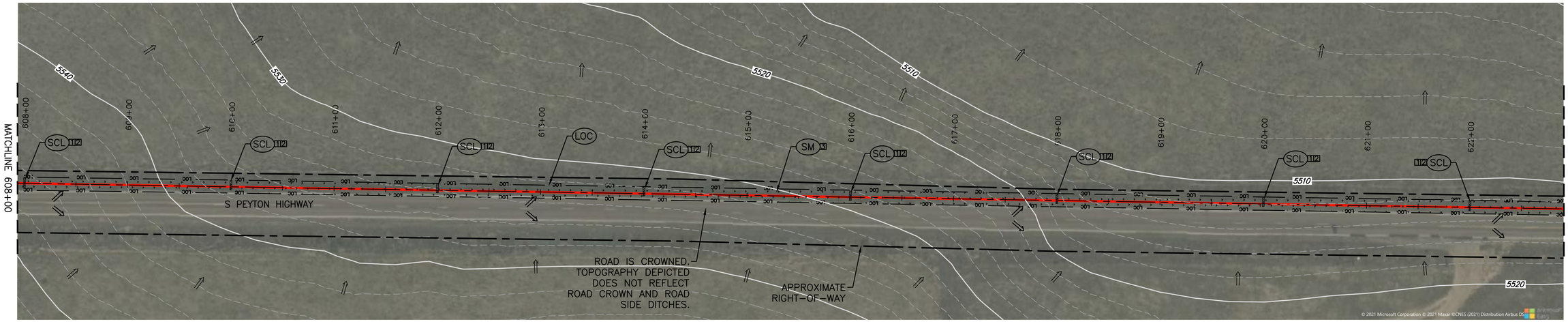

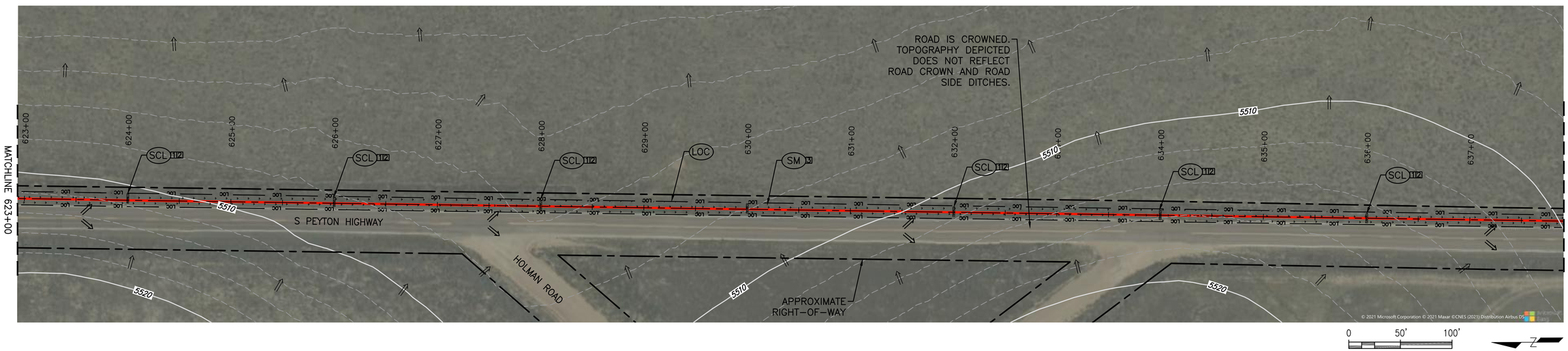

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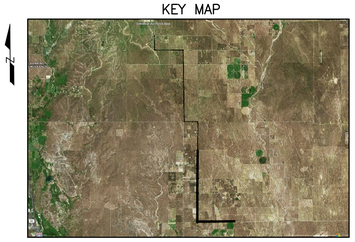

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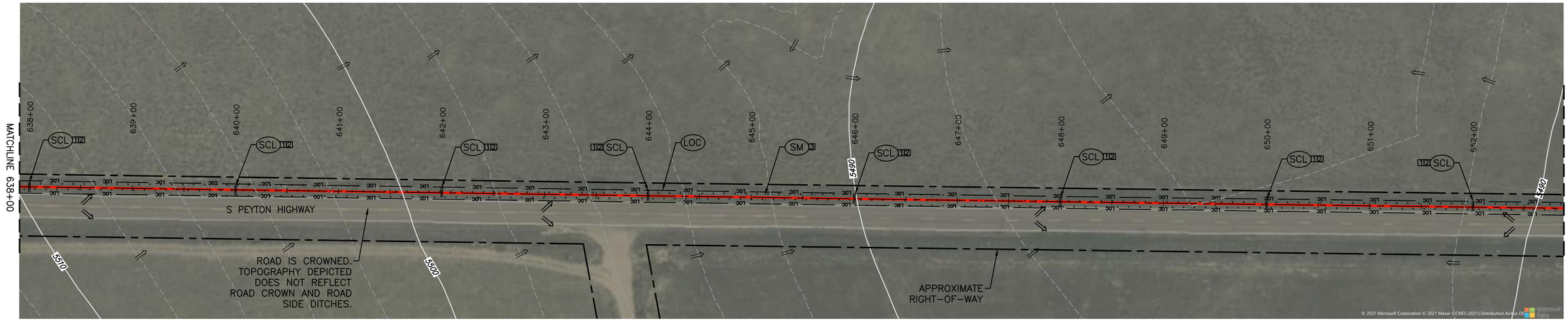

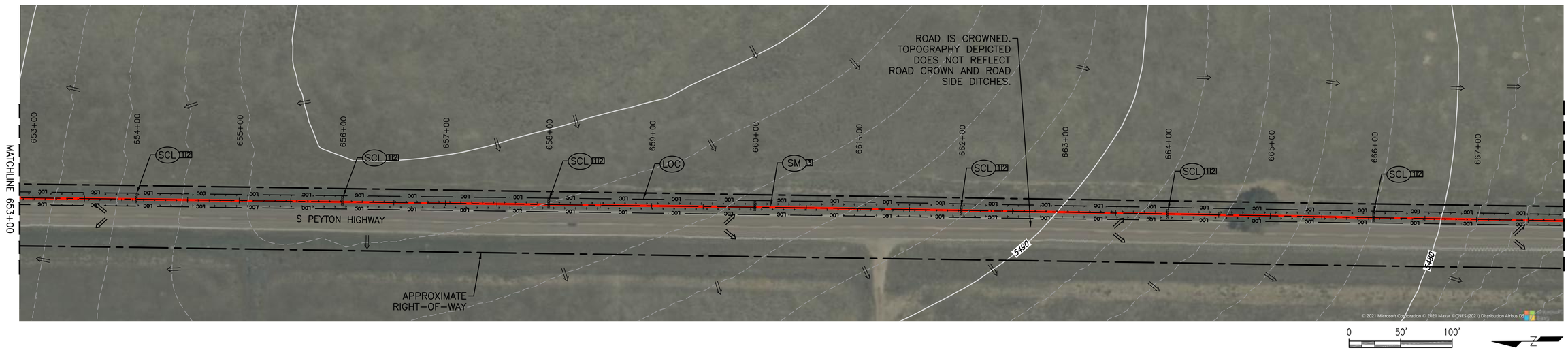

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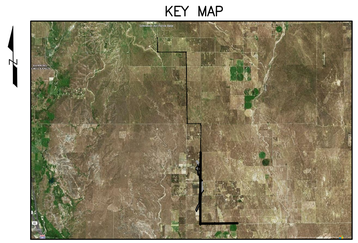

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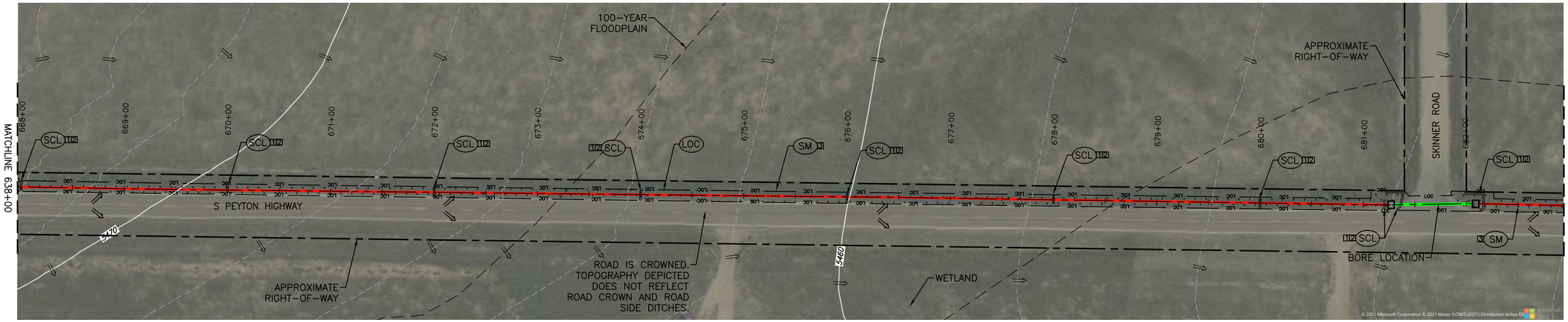

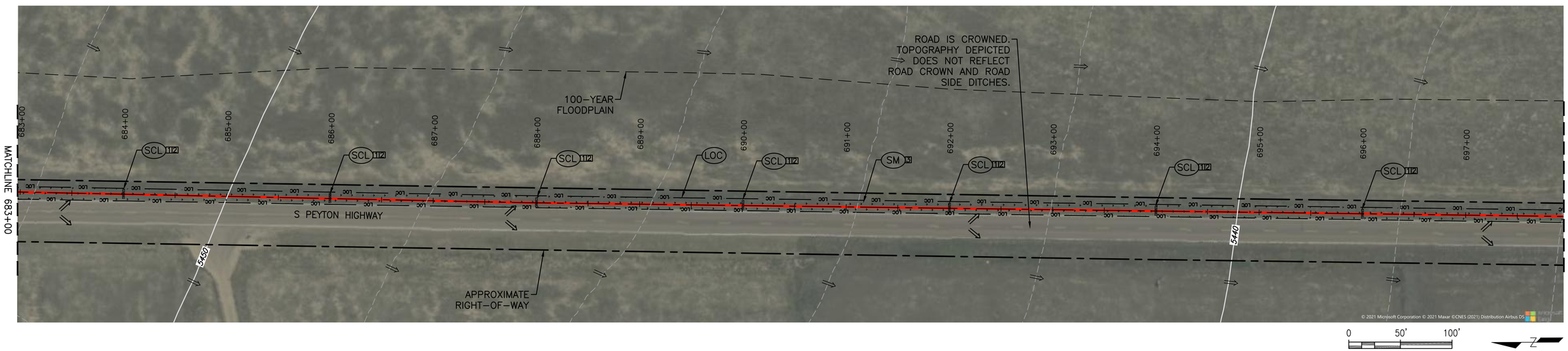

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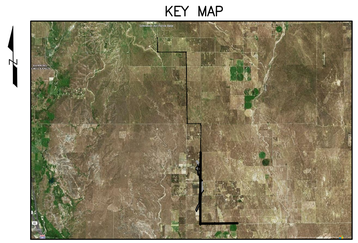

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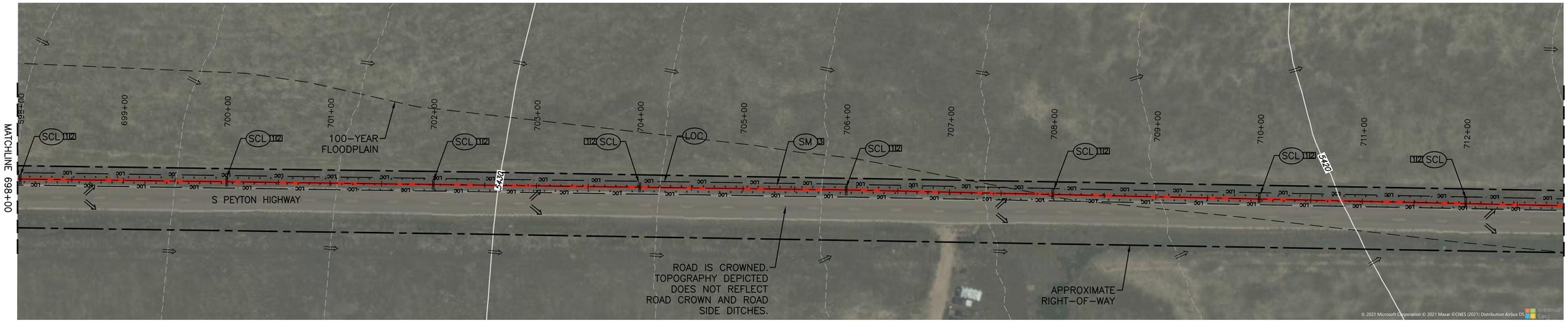

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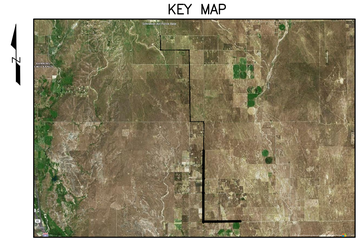

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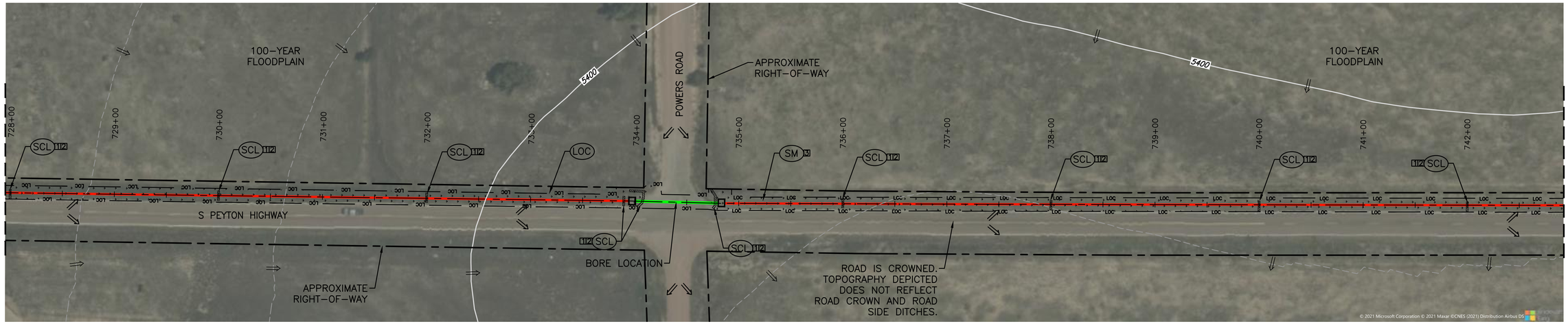
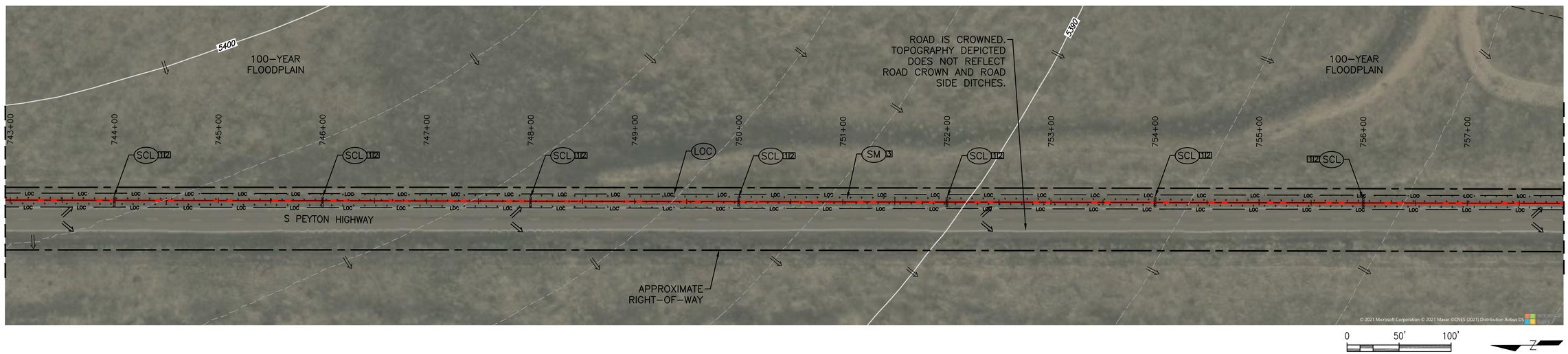
EROSION AND STORMWATER QUALITY CONTROL PLAN

ESQCP SITE MAPS

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
G-25





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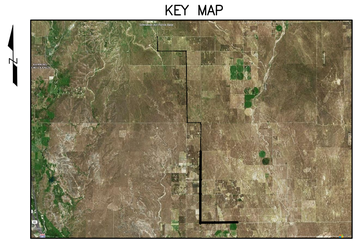

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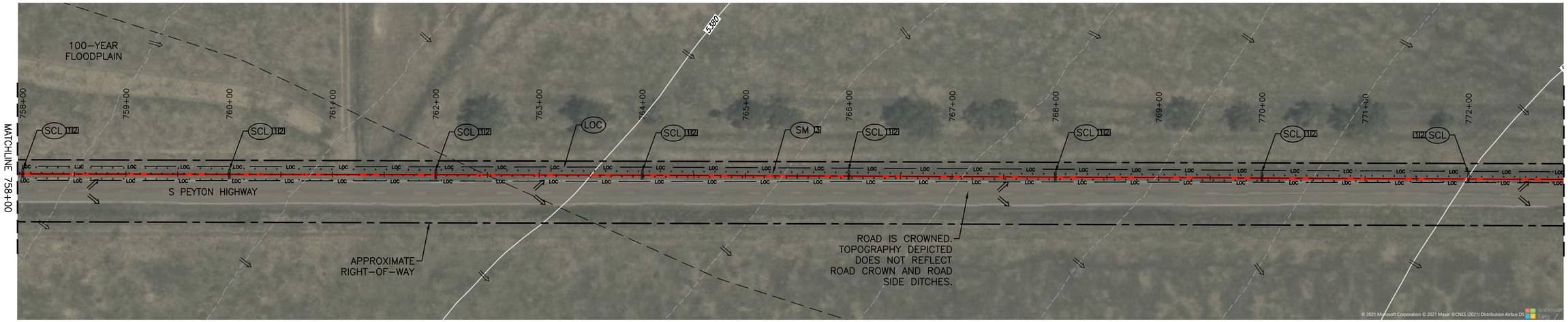

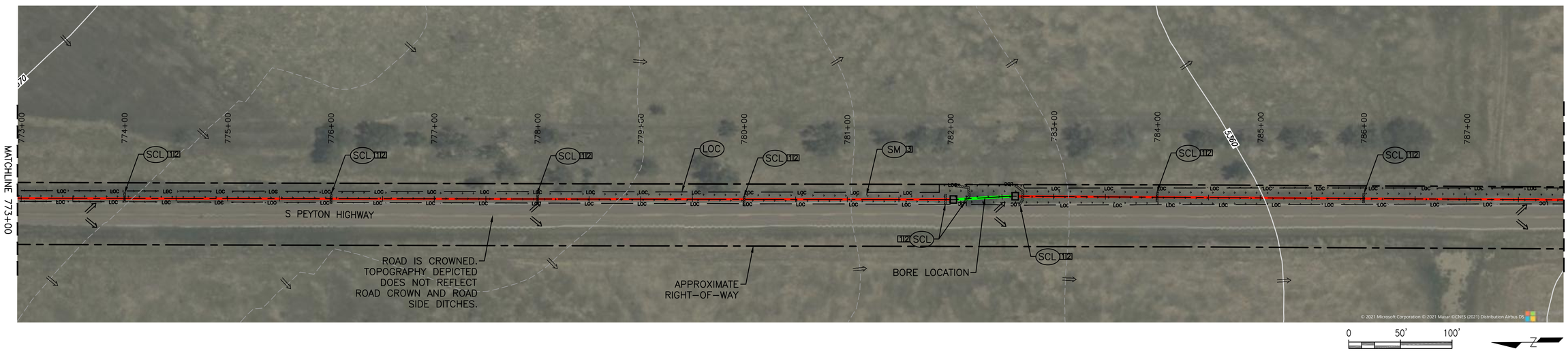

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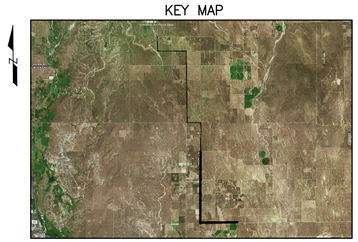

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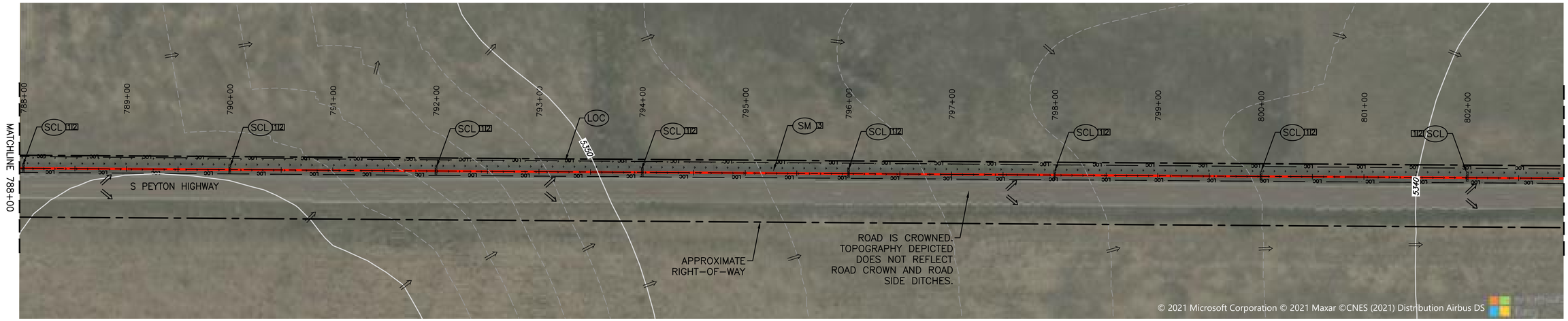

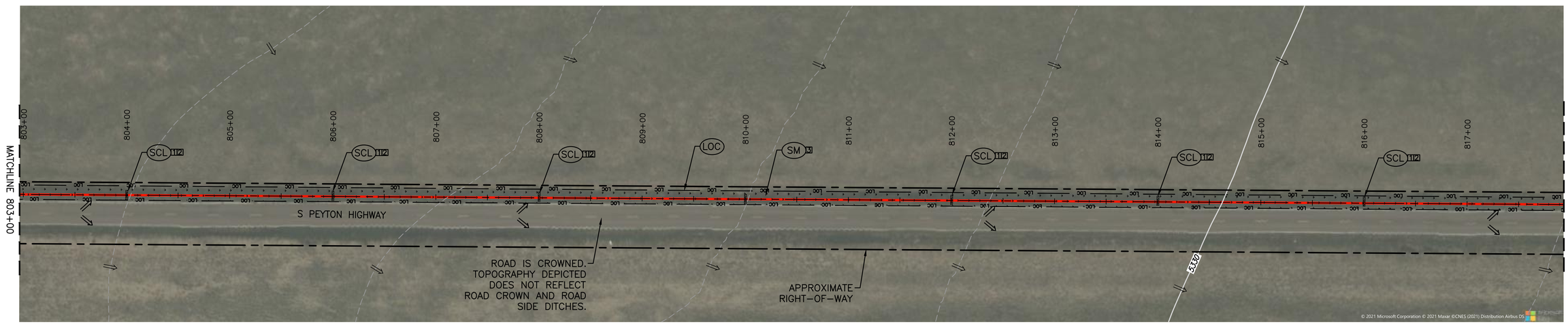

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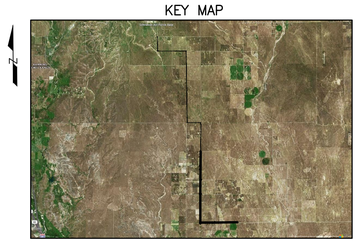

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ESQCP SITE MAPS

Designer: S. FANELLO
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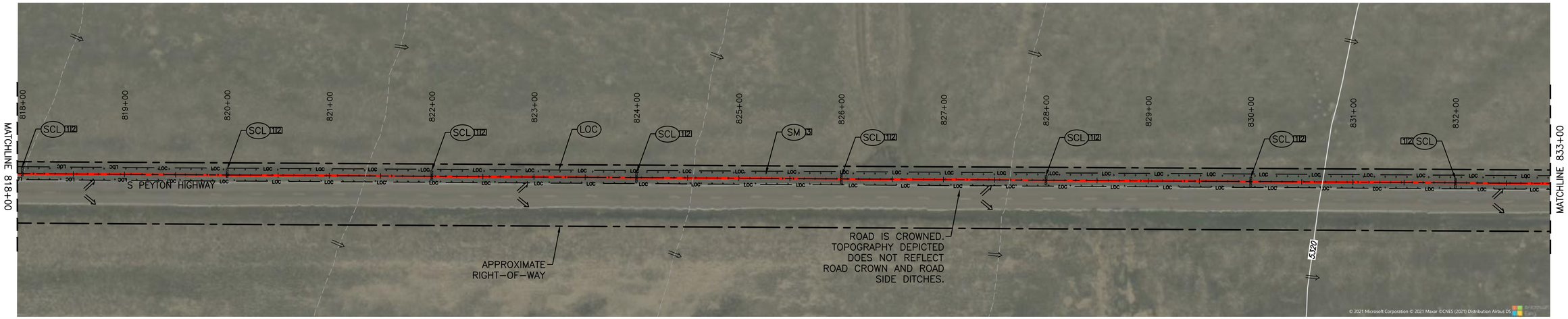

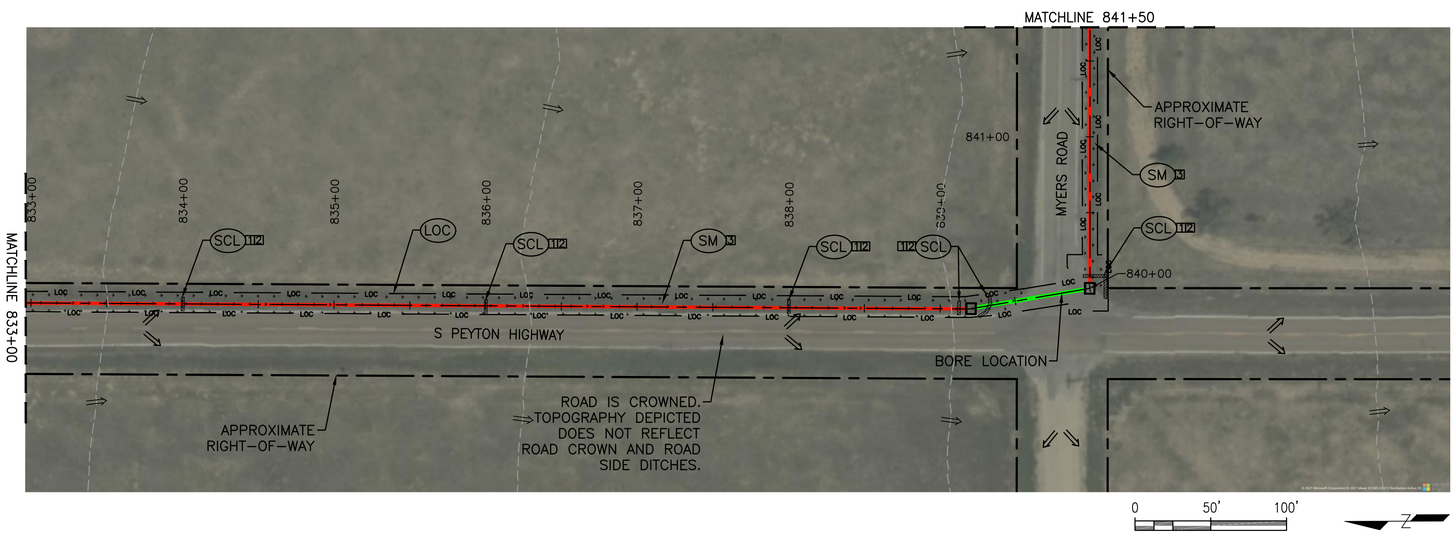

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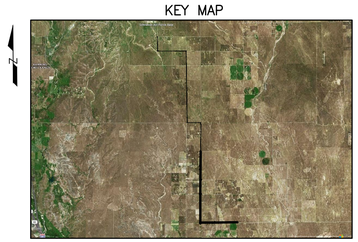

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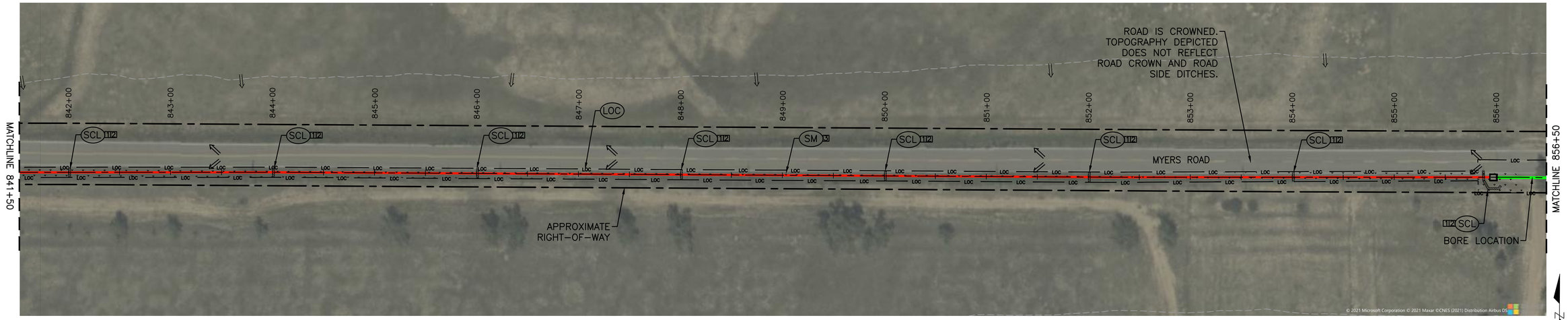

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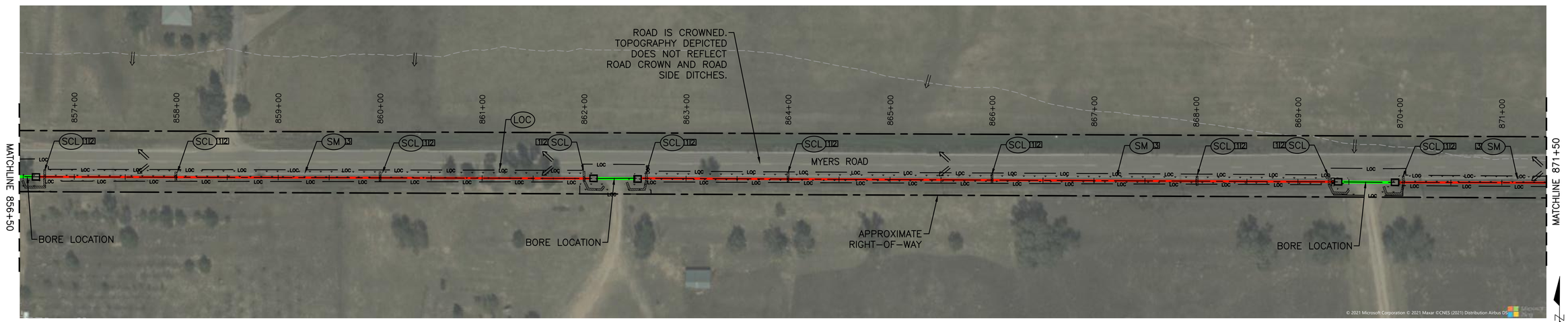

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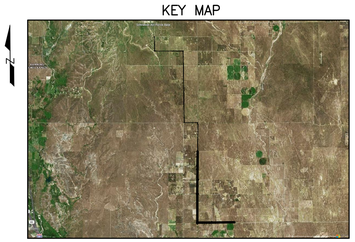

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Pinyon Environmental, Inc.
3222 South Vance Street, Suite 200
Lakewood, Colorado 80227
(303) 980-5200

El Paso County Planning and Community Development Department
2880 International Circle, Colorado Springs, CO 80910
(719) 520-6300

EROSION AND STORMWATER QUALITY CONTROL PLAN

ESQCP SITE MAPS

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
G-30

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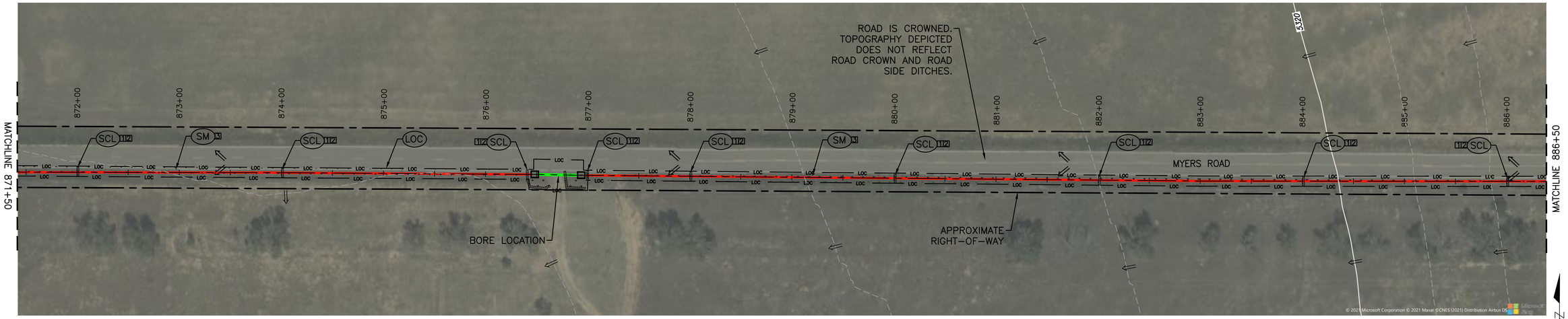

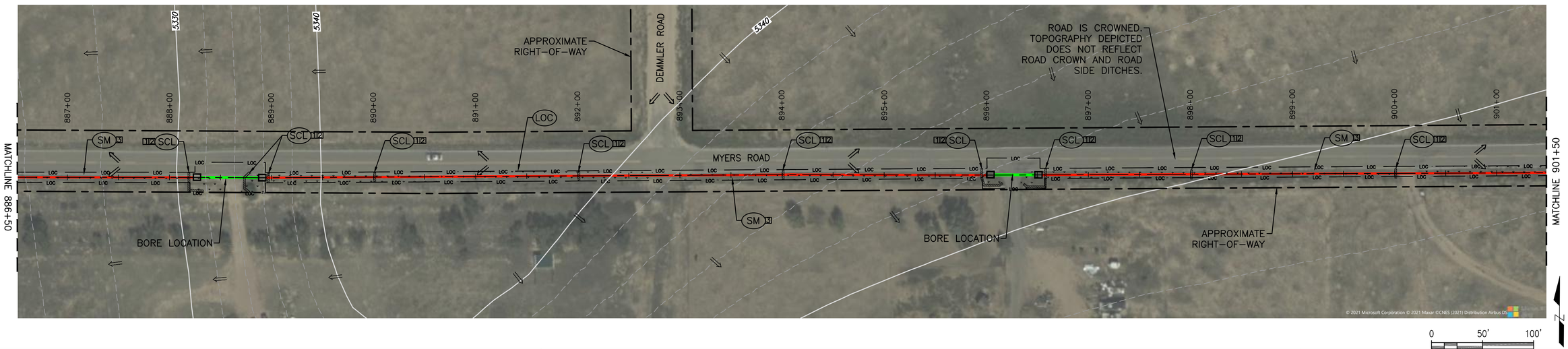

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BMP LEGEND

- CD — CHECK DAM
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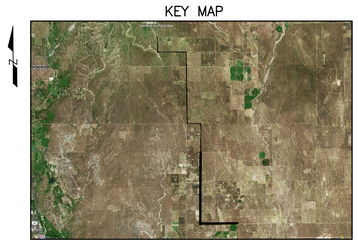
KEY MAP



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Detailer: S. ADAMITIS

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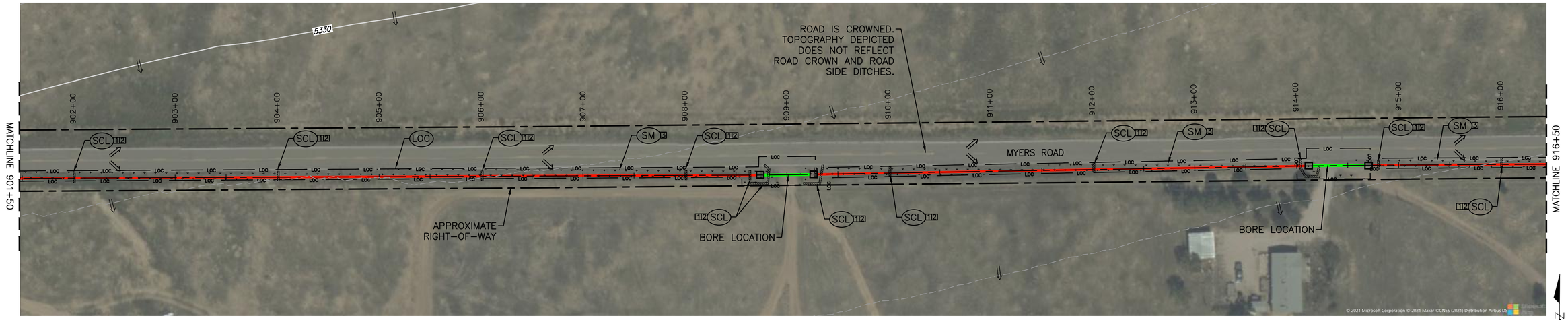

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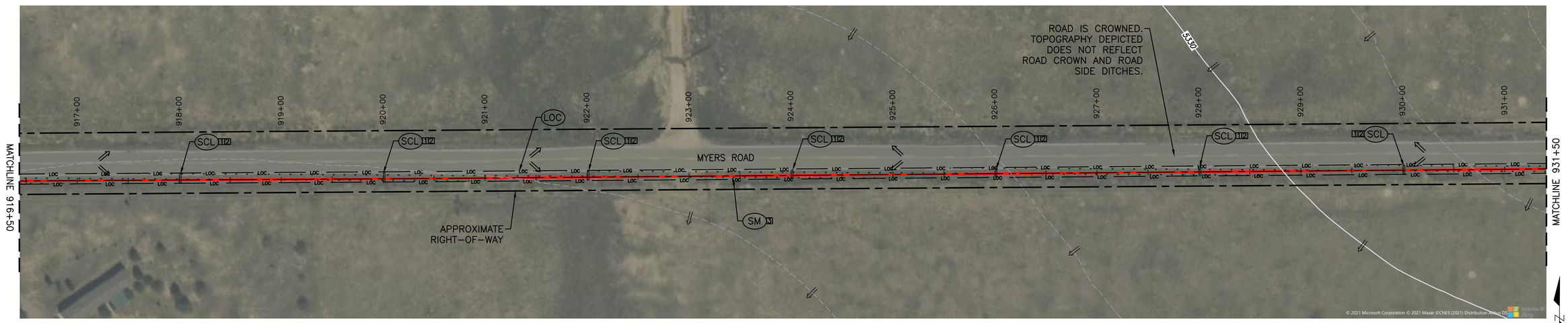

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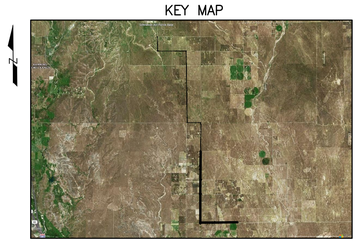
KEY MAP



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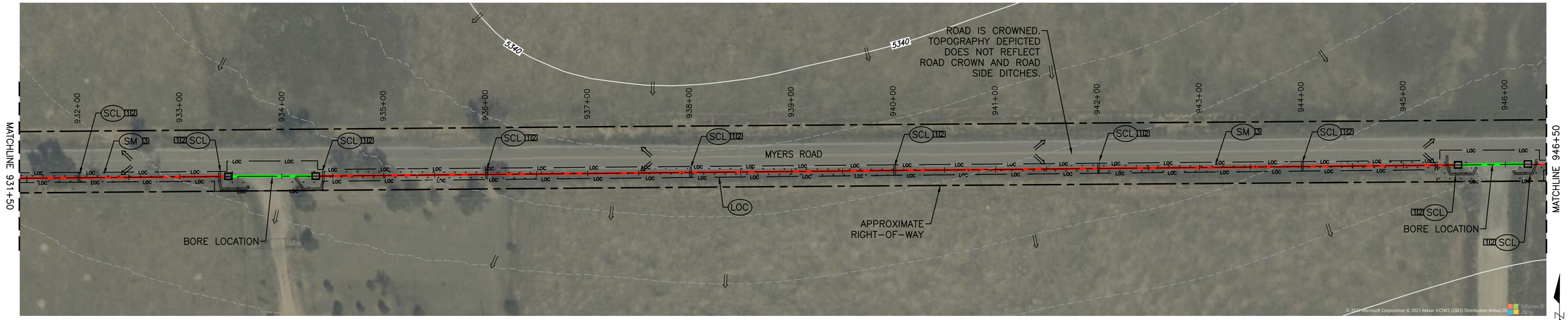

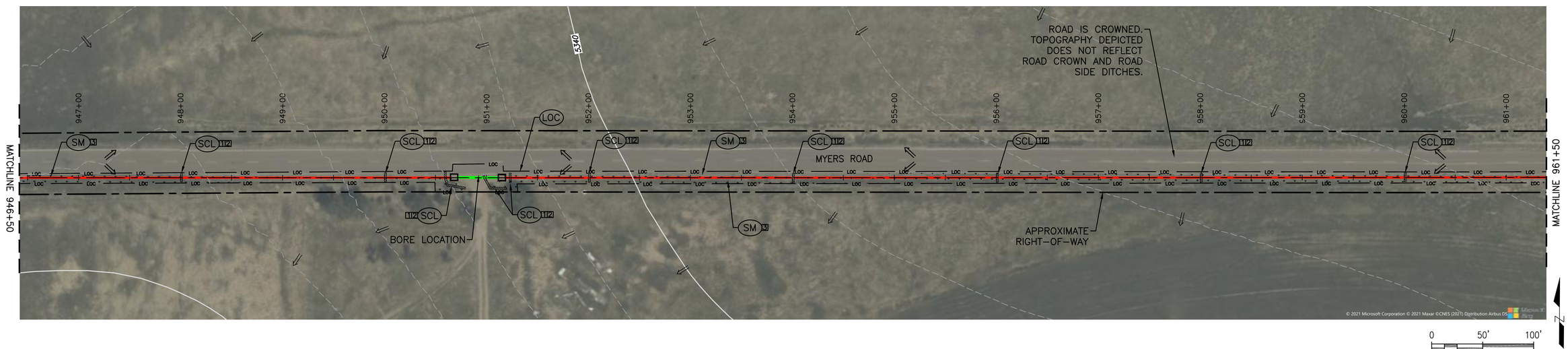

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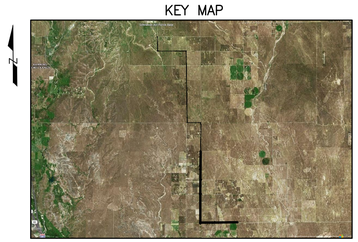

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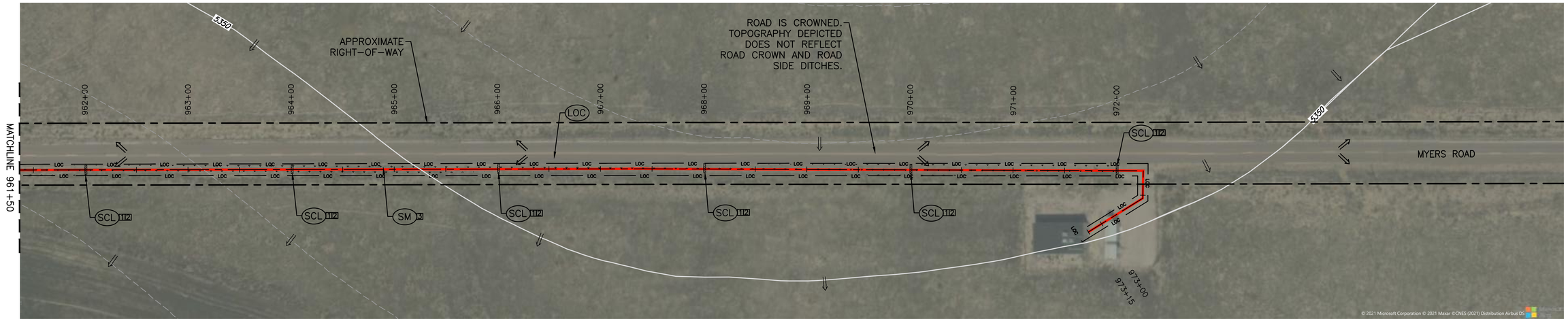

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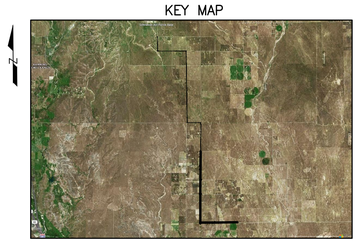

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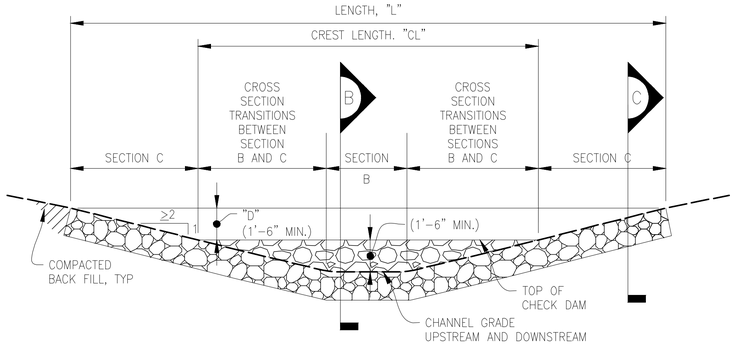
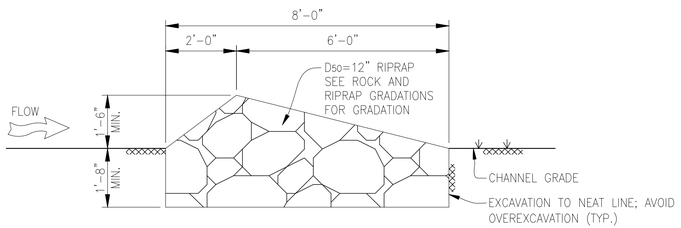
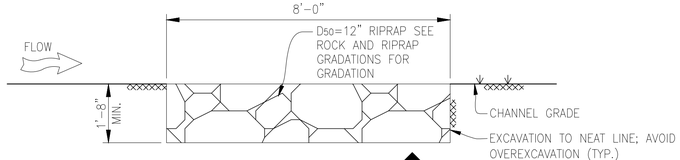


ELEVATION
SCALE: 1" = 5'-0"



SECTION B
SCALE: 1/2" = 1'-0"



SECTION C
SCALE: 1/2" = 1'-0"

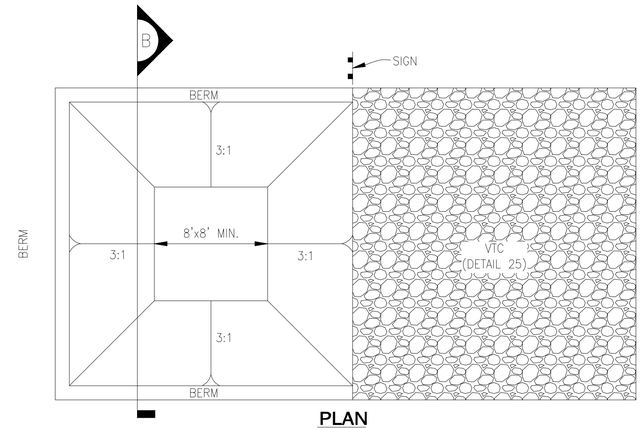
CHECK DAM INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATIONS OF CHECK DAMS.
   - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
   - LENGTH, "L", CREST LENGTH, "CL", AND DEPTH, "D".
2. CHECK DAMS INDICATED ON INITIAL ESQCP PLAN SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND-DISTURBING ACTIVITIES.
3. RIPRAP UTILIZED FOR CHECK DAMS SHALL HAVE A D_{50} MEDIAN STONE SIZE OF 12".
4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'-8".
5. THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1'-6" HIGHER THAN THE CENTER OF THE CHECK DAM.

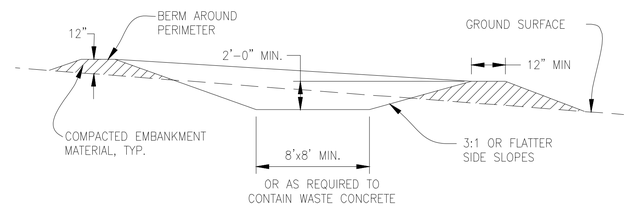
CHECK DAM MAINTENANCE NOTES

1. THE RECOMMENDED INSPECTION FREQUENCY FOR CHECK DAMS IS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
2. SEDIMENT ACCUMULATED UPSTREAM OF CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CHECK DAM IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
3. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND VEGETATED COVER IS APPROVED BY THE COUNTY.
4. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL. ANY DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH EROSION CONTROL BLANKET OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.

CD **CHECK DAM** 1



PLAN
SCALE: 1" = 5'-0"



SECTION B
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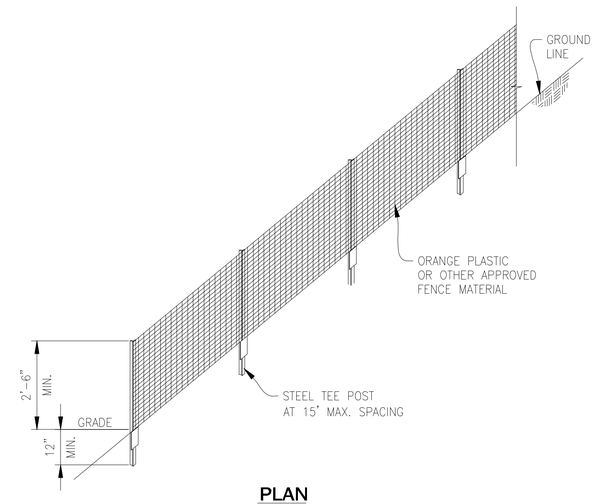
CONCRETE WASHOUT AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATIONS OF CONCRETE WASHOUT AREA.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
3. VEHICLE TRACKING CONTROL (DETAIL 25) IS REQUIRED AT THE ACCESS POINT.
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.
6. DURABLE PORTABLE CONCRETE WASHOUT BASINS OR TUBS MAY BE USED WITH THE APPROVAL OF THE EROSION CONTROL INSPECTOR.

CONCRETE WASHOUT AREA MAINTENANCE NOTES

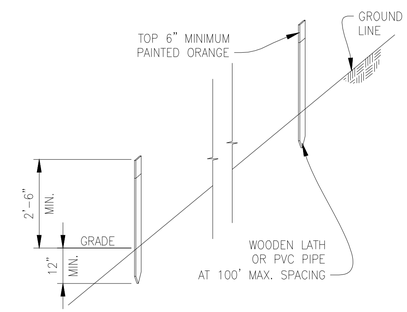
1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
2. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.
4. RECOMMENDED INSPECTION FREQUENCY IS WEEKLY, DURING AND AFTER ANY STORM EVENT.

CWA **CONCRETE WASHOUT AREA** 4



PLAN
SCALE: 1/2" = 1'-0"

CF **CONSTRUCTION FENCE** 5



(ALTERNATIVE TO CONSTRUCTION FENCE)
SCALE: 1/2" = 1-0"

CM **CONSTRUCTION MARKERS** 6

CONSTRUCTION FENCE INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - TYPE OF CONSTRUCTION LIMIT INDICATOR (FENCE OR MARKERS).
   - LOCATION AND LENGTH OF FENCE OR LINE OF MARKERS.
2. CONSTRUCTION FENCE OR MARKERS INDICATED ON INITIAL ESQCP PLAN SHALL BE INSTALLED PRIOR TO OTHER BMPS AND ANY LAND-DISTURBING ACTIVITIES.
3. STEEL TEE POSTS SHALL BE UTILIZED FOR SUPPORT OF CONSTRUCTION FENCE. MAXIMUM SPACING FOR TEE POSTS SHALL BE 15'.

CONSTRUCTION FENCE MAINTENANCE NOTES

1. ANY DAMAGED FENCE OR MARKERS SHALL BE REPAIRED ON A DAILY BASIS.
2. FENCE OR MARKERS SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF ANY DISTURBED AREA EXISTS AFTER FENCE REMOVAL, IT SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.

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Sheet Revisions

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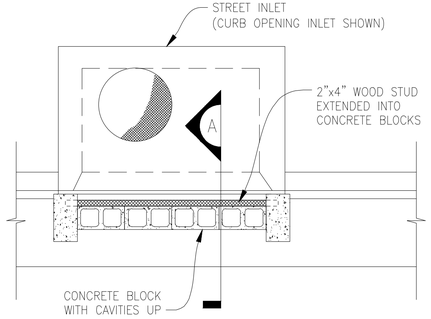
EROSION AND STORMWATER QUALITY CONTROL PLAN

ESQCP DETAILS

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
SHEET 1 OF 8



INTERIM CONFIGURATION (BEFORE PAVING) STREET INLET - PLAN
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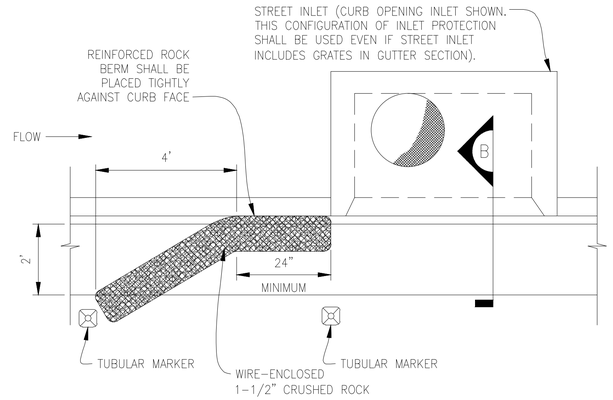

STREET INLET ON CONTINUOUS GRADE (AFTER PAVING) - PLAN
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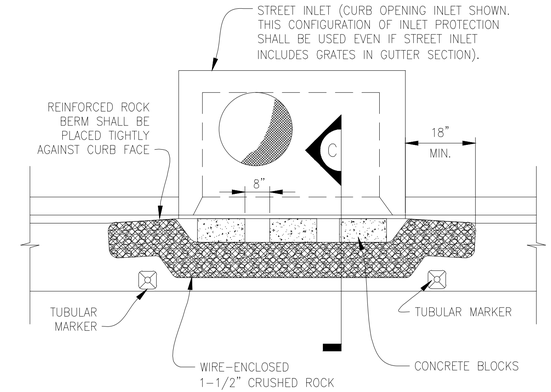

STREET INLET IN SUMP (AFTER PAVING) - PLAN
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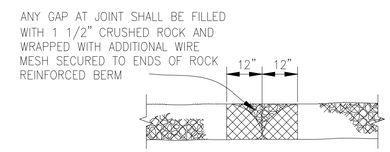

JOINT DETAIL
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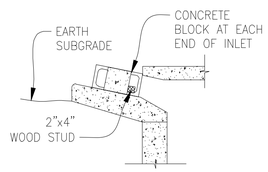

SECTION A
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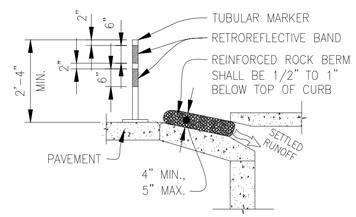

SECTION B
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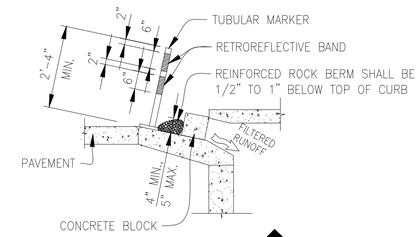

SECTION C
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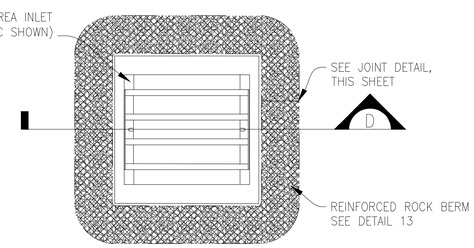
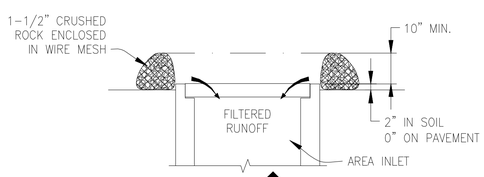


AREA INLET - PLAN
SCALE: 1/2" = 1'-0"



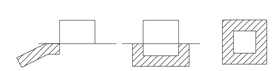
SECTION D
SCALE: 1/2" = 1'-0"

INLET PROTECTION INSTALLATION NOTES

1. INTERIM CONFIGURATION OF INLET PROTECTION IN STREETS SHALL BE INSTALLED WITHIN 48-HOURS OF POURING INLET. INLET PROTECTION (AFTER PAVEMENT) SHALL BE INSTALLED WITHIN 48 HOURS AFTER PAVING IS PLACED.
2. INLET PROTECTION AT AREA INLETS SHALL BE INSTALLED WITHIN 48-HOURS OF POURING INLET.
3. CRUSHED ROCK SHALL BE FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON ROCK AND RIPRAP GRADATIONS (1-1/2").
4. WIRE MESH SHALL BE FABRICATED OF 20 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 INCH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES.
5. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6-INCH CENTERS ALONG ALL JOINTS AND AT 2-INCH CENTERS ON ENDS OF BERM.
6. REINFORCED ROCK BERM SHALL BE CONSTRUCTED IN ONE PIECE OR SHALL BE CONSTRUCTED USING JOINT DETAIL.
7. TUBULAR MARKERS SHALL MEET REQUIREMENTS OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS AMENDED.
8. THE TOP OF REINFORCED ROCK BERM SHALL BE 1/2"-1" BELOW TOP OF CURB.

INLET PROTECTION MAINTENANCE NOTES

1. THE RECOMMENDED INSPECTION FREQUENCY FOR INLET PROTECTION IS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY. MORE FREQUENT INSPECTIONS AND REPAIRS MAY BE REQUIRED DURING WINTER CONDITIONS DUE TO FREEZE/THAW PROBLEMS.
2. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF ROCK BERM IS WITHIN 2-1/2 INCHES OF THE CREST.
3. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED, UNLESS THE COUNTY APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
4. WHEN INLET PROTECTION AT AREA INLETS ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.



IP **INLET PROTECTION** 11

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EROSION AND STORMWATER QUALITY CONTROL PLAN

ESQCP DETAILS

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
SHEET 2 OF 8

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SEEDING AND MULCHING INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - AREA OF SEEDING AND MULCHING.
   - TYPE OF SEED MIX (PERMANENT, TEMPORARY, OR LOW-GROWTH).
2. ALL BRANDS FURNISHED SHALL BE FREE FROM SUCH NOXIOUS SEEDS AS RUSSIAN OR CANADIAN THISTLE, COARSE FESCUE, EUROPEAN BINDWEED, JOHNSON GRASS, KNAP WEED AND LEAFY SPURGE.
3. THE SEEDER SHALL FURNISH TO THE CONTRACTOR A SIGNED STATEMENT CERTIFYING THAT THE SEED FURNISHED IS FROM A LOT THAT HAS BEEN TESTED BY A RECOGNIZED LABORATORY. SEED WHICH HAS BECOME WET, MOLDY, OR OTHERWISE DAMAGED IN TRANSIT OR IN STORAGE WILL NOT BE ACCEPTABLE. SEED TICKETS SHALL BE PROVIDED TO DOUGLAS COUNTY UPON REQUEST.
4. DRILL SEEDING MIX SHALL CONFORM TO THE TABLE ON THE RIGHT:
5. IF THE SEED AVAILABLE ON THE MARKET DOES NOT MEET THE MINIMUM PURITY AND GERMINATION PERCENTAGES SPECIFIED, THE SUBCONTRACTOR MUST COMPENSATE FOR A LESSER PERCENTAGE OF PURITY OR GERMINATION BY FURNISHING SUFFICIENT ADDITIONAL SEED TO EQUAL THE SPECIFIED PRODUCT. THE TAGS FROM THE SEED MIXES MUST BE SUPPLIED TO THE CONTRACTOR AND FORWARDED TO THE DOUGLAS COUNTY EROSION CONTROL INSPECTOR.
6. THE FORMULA USED FOR DETERMINING THE QUANTITY OF PURE LIVE SEED (PLS) SHALL BE (POUNDS OF SEED) X (PURITY) X (GERMINATION) = POUNDS OF PURE LIVE SEED (PLS).
7. PERMANENT SEED MIX SHALL BE USED UNLESS OTHERWISE APPROVED BY THE COUNTY.
8. ALL AREAS TO BE SEEDED AND MULCHED SHALL HAVE NATIVE TOPSOIL OR APPROVED SOIL AMENDMENTS SPREAD TO A DEPTH OF AT LEAST 6 INCHES (LOOSE DEPTH). HAUL ROADS AND OTHER COMPACTED AREAS SHALL BE LOOSENED TO A DEPTH OF 6 INCHES PRIOR TO SPREADING TOPSOIL.
9. SOIL IS TO BE THOROUGHLY LOOSENED (TILLED) TO A DEPTH OF AT LEAST 6 INCHES PRIOR TO SEEDING. THE TOP 6 INCHES OF THE SEED BED SHALL BE FREE OF ROCKS GREATER THAN 4 INCHES AND SOIL CLODS GREATER THAN 2 INCHES. SEEDING OVER ANY COMPACTED AREAS THAT HAVEN'T BEEN THOROUGHLY LOOSENED SHALL BE REJECTED.
10. SEED IS TO BE APPLIED USING A MECHANICAL DRILL TO A DEPTH NOT LESS THAN 1/4 INCH AND NOT MORE THAN 3/4 INCH. ROW SPACING SHALL BE NO MORE THAN 6 INCHES. MATERIAL USED FOR MULCH SHALL CONSIST OF LONG-STEMMED STRAW. AT LEAST 50 PERCENT OF THE MULCH, BY WEIGHT, SHALL BE 10 INCHES OR MORE IN LENGTH. MULCH SHALL BE APPLIED AND MECHANICALLY ANCHORED TO A DEPTH OF AT LEAST 2 INCHES. MULCH SHALL BE APPLIED AT A RATE OF 4000 LB. OF STRAW PER ACRE.
11. IF THE PERMITTEE DEMONSTRATES TO THE COUNTY THAT IT IS NOT POSSIBLE TO DRILL SEED, SEED IS TO BE UNIFORMLY BROADCAST AT TWO TIMES THE DRILLED RATE, THEN LIGHTLY HARROWED TO PROVIDE A SEED DEPTH OF APPROXIMATELY 1/4 INCH, THEN ROLLED TO COMPACT, THEN MULCHED AS SPECIFIED ABOVE.
12. SEEDING AND MULCHING SHALL BE COMPLETED WITHIN 30 DAYS OF INITIAL EXPOSURE OR 14 DAYS AFTER GRADING IS SUBSTANTIALLY COMPLETE IN A GIVEN AREA (AS DEFINED BY THE COUNTY). THIS MAY REQUIRE MULTIPLE MOBILIZATIONS FOR SEEDING AND MULCHING.
13. MULCH SHALL BE APPLIED WITHIN 24-HOURS OF SEEDING.
14. TACKIFIER SHOULD BE UTILIZED TO HELP PREVENT STRAW DISPLACEMENT.

SEEDING AND MULCHING MAINTENANCE NOTES

1. SEEDED AND MULCHED AREAS SHALL BE INSPECTED FOR REQUIRED COVERAGE MONTHLY FOR A PERIOD OF TWO YEARS FOLLOWING INITIAL SEEDING. REPAIRS AND RE-SEEDING AND MULCHING SHALL BE UNDERTAKEN AFTER THE FIRST GROWING SEASON FOR ANY AREAS FAILING TO MEET THE REQUIRED COVERAGE.
2. REQUIRED COVERAGE FOR STANDARD, OPEN SPACE AND LOW GROWTH SEED MIXES SHALL BE DEFINED AS FOLLOWS:
   1. THREE (3) PLANTS PER SQUARE FOOT WITH A MINIMUM HEIGHT OF 3 INCHES. THE 3 PLANTS PER SQUARE FOOT SHALL BE OF THE VARIETY AND SPECIES FOUND IN THE DOUGLAS COUNTY-APPROVED MIX.
   2. NO BARE AREAS LARGER THAN 4 SQUARE FEET (TWO-FEET BY TWO-FEET OR EQUIVALENT).
   3. FREE OF ERODED AREAS.
   4. FREE FROM INFESTATION OF NOXIOUS WEEDS IN ACCORDANCE WITH SECTION 6.4 OF THE GESC MANUAL.
3. REQUIRED COVERAGE FOR TURF GRASS AREAS SHALL BE DEFINED AS FOLLOWS:
   1. AT LEAST 80% VEGETATIVE COVER OF GRASS SPECIES PLANTED.
   2. NO BARE AREAS LARGER THAN 4 SQUARE FEET (TWO-FEET BY TWO-FEET OR EQUIVALENT).
   3. FREE OF ERODED AREAS.
   4. FREE FROM INFESTATION OF NOXIOUS WEEDS IN ACCORDANCE WITH SECTION 6.4 OF THE GESC MANUAL.
4. RILL AND GULLY EROSION SHALL BE FILLED WITH TOPSOIL PRIOR TO RESEEDING. THE RESEEDING METHOD SHALL BE APPROVED BY THE COUNTY.

DOUGLAS COUNTY PERMANENT DRILL SEEDING MIX

SPECIES	VARIETY	NOTES	% IN MIX	POUNDS OF PLS PER ACRE
BIG BLUESTEM	KAW	PNWS	10	1.1
YELLOW INDIANGRASS	CHEYENNE	PNWS	10	1
SWITCHGRASS	BLACKWELL	PNWS	10	0.4
SIDEOATS GRAMA	VAUGHN	PNWB	10	0.9
WESTERN WHEATGRASS	ARRIBA	PNCS	10	1.6
BLUE GRAMA	HACHITA	PNWB	10	0.3
THICKSPIKE WHEATGRASS	CRITANA	PNCS	10	1
PRAIRIE SANDREED	GOSHEN	PNWS	10	0.7
GREEN NEEDLEGRASS	LODORM	PNCB	10	1
SLENDER WHEATGRASS	PRYOR	PNCB	5	0.6
STREAMBANK WHEATGRASS	SODAR	PNCS	5	0.6
			TOTAL	9.2

DOUGLAS COUNTY TEMPORARY DRILL SEEDING MIX

SPECIES	VARIETY	NOTES	% IN MIX	POUNDS OF PLS PER ACRE
SMOOTH BROMEGRASS	LINCOLN	PICS	30	3.9
INTERMEDIATE WHEATGRASS	OAHE	PICS	30	4.5
PUBESCENT WHEATGRASS	LUNA	PICS	30	4.2
ANNUAL RYEGRASS	N/A	AICB	10	0.8
			TOTAL	13.4

DOUGLAS COUNTY LOW-GROWTH DRILL SEEDING MIX

SPECIES	VARIETY	NOTES	% IN MIX	POUNDS OF PLS PER ACRE
BUFFALOGRASS	TEXOKA	PNWS	20	3.2
BLUE GRAMA	HACHITA	PNWB	20	0.6
WESTERN WHEATGRASS	ARRIBA	PNCS	20	3.2
SIDEOATS GRAMA	VAUGHN	PNWB	20	1.8
THICKSPIKE WHEATGRASS	CRITANA	PNCS	10	1
STREAMBANK WHEATGRASS	SODAR	PNCS	10	1.2
			TOTAL	11.0

NOTES:
P=PERENNIAL
A=ANNUAL
N=NATIVE
I=INTRODUCED
W=WARM SEASON
C=COOL SEASON
S=SOD FORMER
B=BUNCHGRASS

SM SEEDING AND MULCHING 18

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EROSION AND STORMWATER QUALITY CONTROL PLAN

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Detailer: S. ADAMITIS

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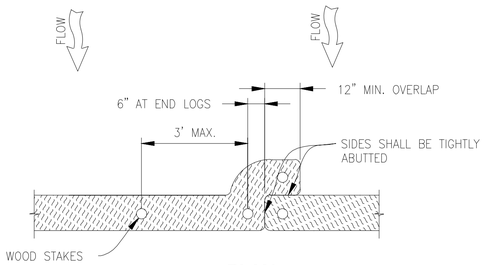
SHEET 3 OF 8



PLAN
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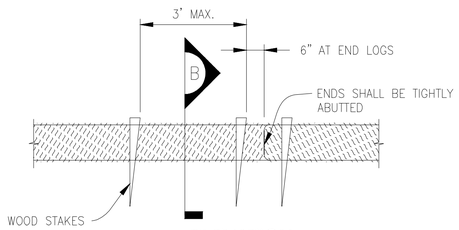

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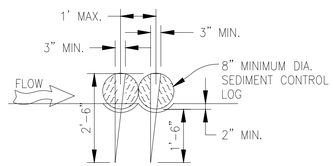


SECTION B
SCALE: 1/2" = 1'-0"

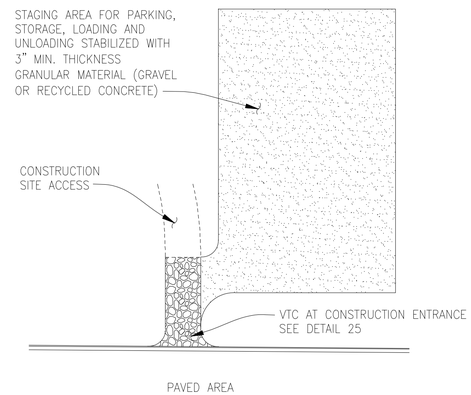
SEDIMENT CONTROL LOG INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION AND LENGTH OF SEDIMENT CONTROL LOG.
2. SEDIMENT CONTROL LOGS INDICATED ON INITIAL ESQCP PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.
3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
4. NOT FOR USE IN CONCENTRATED FLOW AREAS.
5. THE SEDIMENT CONTROL LOG SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 2".

SEDIMENT CONTROL LOG MAINTENANCE NOTES

1. THE RECOMMENDED INSPECTION FREQUENCY FOR SEDIMENT CONTROL LOGS IS DAILY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
2. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOGS SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN ½ THE HEIGHT OF THE CREST OF LOG.
3. SEDIMENT CONTROL LOG SHALL REMAIN IN PLACE UNTIL THE VEGETATIVE COVER IS APPROVED BY THE EROSION CONTROL INSPECTOR. IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.

SCL **SEDIMENT CONTROL LOG** 16



PLAN
SCALE: 1" = 40'-0"

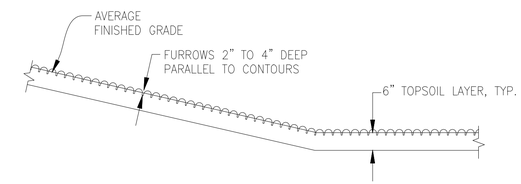
STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR GENERAL LOCATION OF STAGING AREA. CONTRACTOR MAY MODIFY LOCATION AND SIZE OF STABILIZED STAGING AREA WITH COUNTY APPROVAL.
2. STABILIZED STAGING AREA SHALL BE LARGE ENOUGH TO FULLY CONTAIN PARKING, STORAGE, AND UNLOADING AND LOADING OPERATIONS.
3. IF REQUIRED BY THE COUNTY, SITE ACCESS ROADS SHALL BE STABILIZED IN THE SAME MANNER AS THE STAGING AREA.
4. STAGING AREA SHALL BE STABILIZED PRIOR TO ANY OTHER OPERATIONS ON THE SITE.
5. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM OF 3" OF GRANULAR MATERIAL (GRAVEL OR RECYCLED CONCRETE).

STABILIZED STAGING AREA MAINTENANCE NOTES

1. THE RECOMMENDED INSPECTION FREQUENCY FOR THE STABILIZED STAGING AREA IS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
2. ESQCP MANAGER SHALL PROVIDE ADDITIONAL THICKNESS OF GRANULAR MATERIAL IF ANY RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.
3. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING AND LOADING OPERATIONS.
4. ANY ACCUMULATED DIRT OR MUD SHALL BE REMOVED FROM THE SURFACE OF THE STABILIZED STAGING AREA.
5. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE COUNTY, USED ON SITE, AND THE AREA TOPSOILED, DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED.

SSA **STABILIZED STAGING AREA** 20



ELEVATION
SCALE: 1/2" = 1'-0"

SURFACE ROUGHENING INSTALLATION NOTES

1. SURFACE ROUGHENING SHALL BE PROVIDED ON ALL FINISHED GRADES (SLOPES AND "FLAT" AREAS) WITHIN 2 DAYS OF COMPLETION OF FINISHED GRADE (FOR AREAS NOT RECEIVING TOPSOIL) OR WITHIN 2 DAYS OF TOPSOIL PLACEMENT.
2. AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOD IS TO BE PLACED WITHIN 7-DAYS OF FINISHED GRADING DO NOT NEED TO BE SURFACE ROUGHENED.
3. DISTURBED SURFACES SHALL BE ROUGHENED USING RIPPING OR TILLING EQUIPMENT ON THE CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TREADS.

SURFACE ROUGHENING MAINTENANCE NOTES

1. THE RECOMMENDED INSPECTION FREQUENCY FOR SURFACE ROUGHENING IS WEEKLY, DURING AND AFTER ANY STORM EVENT, AND MAKE REPAIRS.
2. VEHICLES AND EQUIPMENT SHALL GENERALLY BE CONFINED TO ACCESS DRIVES AND SHALL NOT BE DRIVEN OVER AREAS THAT HAVE BEEN SURFACE ROUGHENED.
3. IN NON-TURF GRASS FINISHED AREAS, SEEDING AND MULCHING SHALL TAKE PLACE DIRECTLY OVER SURFACE ROUGHENED AREAS WITHOUT FIRST SMOOTHING OUT THE SURFACE.
4. IN AREAS NOT SEEDED AND MULCHED AFTER SURFACE ROUGHENING, SURFACES SHALL BE RE-ROUGHENED AS NECESSARY TO MAINTAIN GROOVE DEPTH AND SMOOTH OVER ANY RILL EROSION.

SR **SURFACE ROUGHENING** 21

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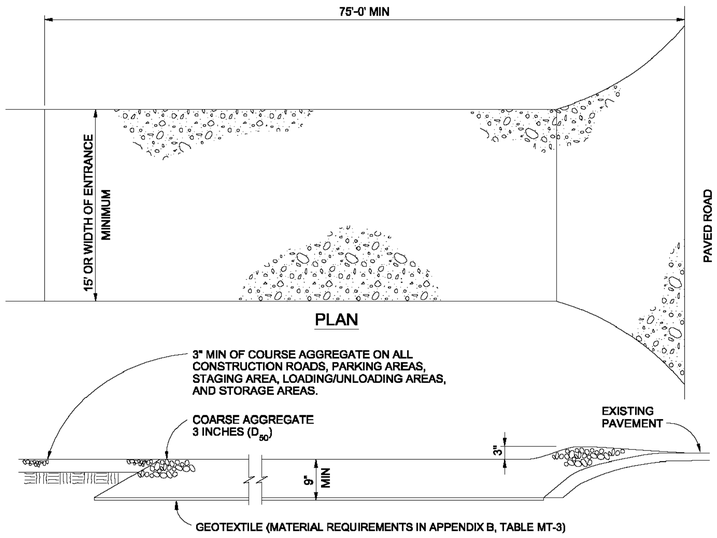
(719) 520-6300

EROSION AND STORMWATER QUALITY CONTROL PLAN

ESQCP DETAILS

Designer: S. FANELLO
Detailer: S. ADAMITIS

DRAWING
SHEET 4 OF 8



VEHICLE TRACKING
NTS

VEHICLE TRACKING NOTES

INSTALLATION REQUIREMENTS

1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.

2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.

3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.

4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.

5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.

2. STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.

3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.

4. STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.

5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

City of Colorado Springs
Stormwater Quality

Figure VT-2
Vehicle Tracking
Application Examples

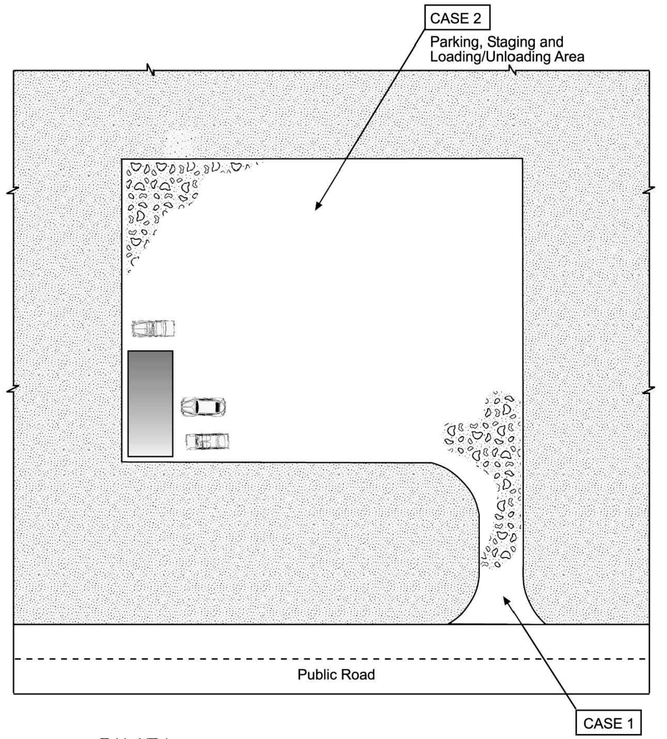


Table VT-1

	Case 1	Case 2
Gravel Thickness	9"	3"
Filter Fabric	YES	NO

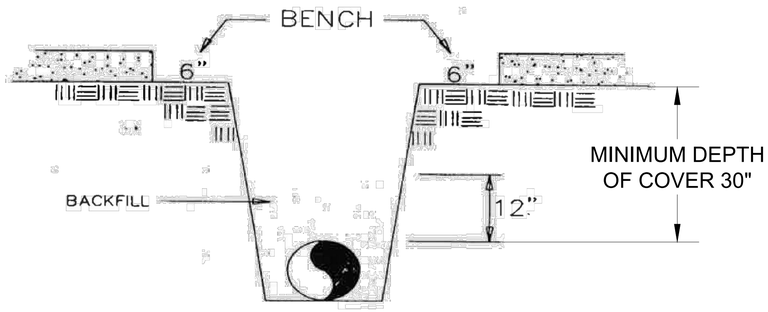
City of Colorado Springs
Storm Water Quality

Figure VT-1
Vehicle Tracking
Application Examples

COMPACTION

A) When compacting is mandated by ordinances, permit requirements, or locations specified by the inspector, a percussion tamper may be used on soil; for sand and gravel free of cohesive materials, a vibratory plate should be used.

B) When compacting around pipe and fittings, cover the top of the pipe with a minimum of 12" of fill material to protect the pipe from damage. If possible, use a clean sand to surround the pipe. This will ensure that the void space under the pipe will be filled.



MINIMUM PIPE COVER

C) Continue backfilling in six-inch lifts with a mechanical tamper or vibrating plate when trying to obtain a specified compaction or to prevent settlement. If there is a need to document the compaction obtained, contact a local testing firm and request a soil compaction test. Testing methods recognized throughout the industry include the nuclear density test, sand cone density, or the balloon density test.

Distribution Mains			
Nom. Pipe Size	Minimum Width	Minimum Cover	Minimum Cover in Rock
10"	22"	30"	24"
8"	18"	30"	24"
6"	12"	30"	24"
4"	8"	30"	24"
2"	*8"	30"	24"

*4" width is acceptable if equipment is available to properly compact the soil in the trench.

BLACK HILLS ENERGY STANDARD TRENCH DETAIL

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R-1

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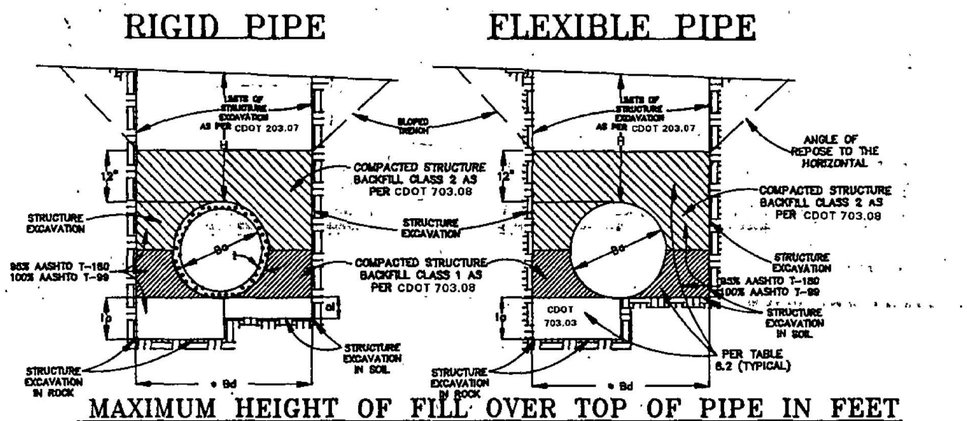

MAXIMUM HEIGHT OF FILL OVER TOP OF PIPE IN FEET

REINFORCED CONCRETE

Ba in.	Bd ft.	101 INCH CRACK D-LOAD 1000	1350	2000	3000
		PIPE CLASS II	III	IV	V
12	4.00	18	25	37	40+
15	4.25	18	25	37	40+
18	4.50	18	25	37	40+
21	4.75	18	25	37	40+
24	5.00	18	25	37	40+
27	5.25	18	25	37	40+
30	5.50	18	25	37	40+
33	5.75	18	25	40+	40+
36	6.00	18	25	40+	40+
42	6.50	18	25	40+	40+
48	7.00	18	25	40+	40+
54	7.50	18	25	40+	40+
60	8.00	18	25	40+	40+
66	8.50	18	25	40+	40+
72	9.00	18	25	40+	40+
78	9.50	18	25	40+	40+
84	10.00	18	25	40+	40+
90	10.50	18	25	40+	40+
96	11.00	18	25	40+	40+
102	11.50	18	25	40+	40+
108	12.00	18	25	40+	40+

RCP DESIGN CRITERIA:

Safety Factor = 1.33 on Lift.
Soil Weight = 120 lb. per cu. ft.
Load Factor = 1.9
Bedding = Class B (modified)

Note: Where trench widths cause transition to embankment condition, fill heights for projected pipe (Standard M-803-RC) are shown.

ALL UTILITY REPAIRS MUST BE BACKFILLED WITH CLSM.

STEEL – 2 2/3" x 1/2" CORRUGATIONS

Ba in.	Bd ft.	H ABOVE TOP OF PIPE IN FEET 1–15	16–20	21–25	26–30	31–35	36–40
		THICKNESS IN INCHES					
12–48	4–7	.064	.064	.064	.064	.064	.064
54	7.50	.079	.079	.079	.079	.079	.079
60	8.00	.079	.079	.079	.079	.109	.109
66	8.50	.079	.079	.109	.109	.138	.138
72	9.00	.079	.109	.109	.138	.168	.168
78	9.50	.109	.138	.138	.168		
84	10.00	.109	.138	.168			

CSP DESIGN CRITERIA:
(3"x 1" CORRUGATIONS: 60 to 84 Pipe shall be .064" thick (16 gauge) to H = 40 ft.)

Soil Weight = 120 lb. per cu. ft.
Safety Factor for Seam Strength = 2.00
Buckling Stress Level = 1/2 Yield Strength
Load Factor (Backfill) = 95% Standard Density, AASHTO-T 99 (K=0.88)

LEGEND

H = Height of fill over top of pipe
Ba = Inside diameter of pipe.
•Bd = Trench width
t = Wall thickness of pipe
f = Material replacing rock excavation for cast in place concrete pipe., sufficiently compacted to allow operation of the pipe machine and provide a smooth firm surface.
a = Loose granular bedding, as follows:

I.D. OF PIPE	a IN SOIL	a IN ROCK
6" – 27"	3"	12"
30" – 60"	4"	12"
66" OR >	6"	12"

•TRENCH WIDTHS
CSP, RCP & NRCP: Bd = Ba +3"
CLAY & CAST IRON: Bd= STANDARD BUCKET WIDTHS (NO SIDE CUTTERS)

!Bedding material for SOIL shall be Structural Backfill Class 2
Bedding Material for ROCK shall be Structural Backfill Class 1

GENERAL NOTES

All work shall be done in accordance with the Standard Specifications applicable to the project.

Minimum cover for prefabricated pipe shall be 2 feet.

Changes in design criteria will require compensating change in pipe design.

When pipe sewer is to be extended or replaced with pipe of different material, the connections shall conform to the detail shown on plans or be approved.

Spacing for multiple pipe sewer installations shall conform to the details shown on M Standard Excavation and Backfill for Structures.

TRENCH INSTALLATION:

All trench installations shall be in accordance with OSHA and Colorado Department of Transportation Regulations.

NON-REINFORCED CONCRETE PIPE

The use of Non-Reinforced Concrete Pipe will not be allowed in Douglas County Right-Of-Way.

NOTE: All trenching shall comply with all State, Federal and O.S.H.A. safety requirements. It will be the responsibility of the Contractor to meet all safety requirements.

TRENCHING DETAIL

NOTES:

1. This trench patching detail specifies requirements in addition to those specified in the latest edition of the Colorado Department of Transportation's Standard Specifications for Road and Bridge Construction.
2. A construction traffic control plan shall be submitted to and approved by EL PASO COUNTY to issuance of construction permits in the County right-of-way.
3. Trench shall be braced or sheeted as necessary for the safety of the workers and protection of other utilities or structures in accordance with applicable local, state and federal safety regulations.
4. The trench width shall be confined to those minimum dimensions, which will permit proper installation and acceptable pipe loading, as established by current local, state and federal safety regulations.
5. At the discretion of the EL PASO CO Inspector, the pavement may be required to be saw-cut back to maintain a straight edge.
6. Backfill compaction requirements: Minimum density will be determined in accordance with AASHTO T 99 or T 180 as defined by CDOT Standard Specifications Section 203.11 and CDOT 703.03. Except for CLSM.
7. Full depth asphalt can be used as an alternative to base course. A ratio of 3 inches base course to 1 inch of asphalt shall be used in the substitution.
8. A temporary cold-mix asphalt patch, 4" minimum depth (see Section 9.6) will be required for all street cuts if a permanent hot-mix asphalt patch cannot be applied for any reason, after construction is completed.
9. Pavement edges shall be saw-cut straight to within 5 degrees of vertical. Edges shall be tack coated prior to patching.
10. If existing street is paved with fabric, a "TEE" trench shall be required. The Contractor shall carefully saw-cut and remove the layer of asphalt above the fabric a minimum of 12" back from the edge of the trench.
11. Minimum cover for prefabricated pipe shall be 2 feet.
12. Changes in design criteria will require compensating change in pipe design.
13. When pipe sewer is to be extended or replaced with pipe of different material, the connections shall conform to the detail shown on plans or be approved.
14. Spacing for multiple pipe sewer installations shall be 1/2" inside diameter or span, or 3" maximum.
15. TRENCH INSTALLATION:
    a. Trenches over 5 feet in depth shall be either shared or the trench walls shall be sloped to the angle of repose. If sloped, the bottom of the slope shall be a minimum of 1 foot above the top of the pipe.
    b. Shoring will be required when the bottom of the slope is more than 3 feet above the bottom of the trench. Shoring shall extend a minimum of 1 foot above the bottom of the slope.
    c. Timber sheeting or shoring may be cut off 1 foot above the top of the pipe after backfilling is complete.

REFERENCE: Douglas County Drainage Manual and Colorado Department of Transportation "M" Standards

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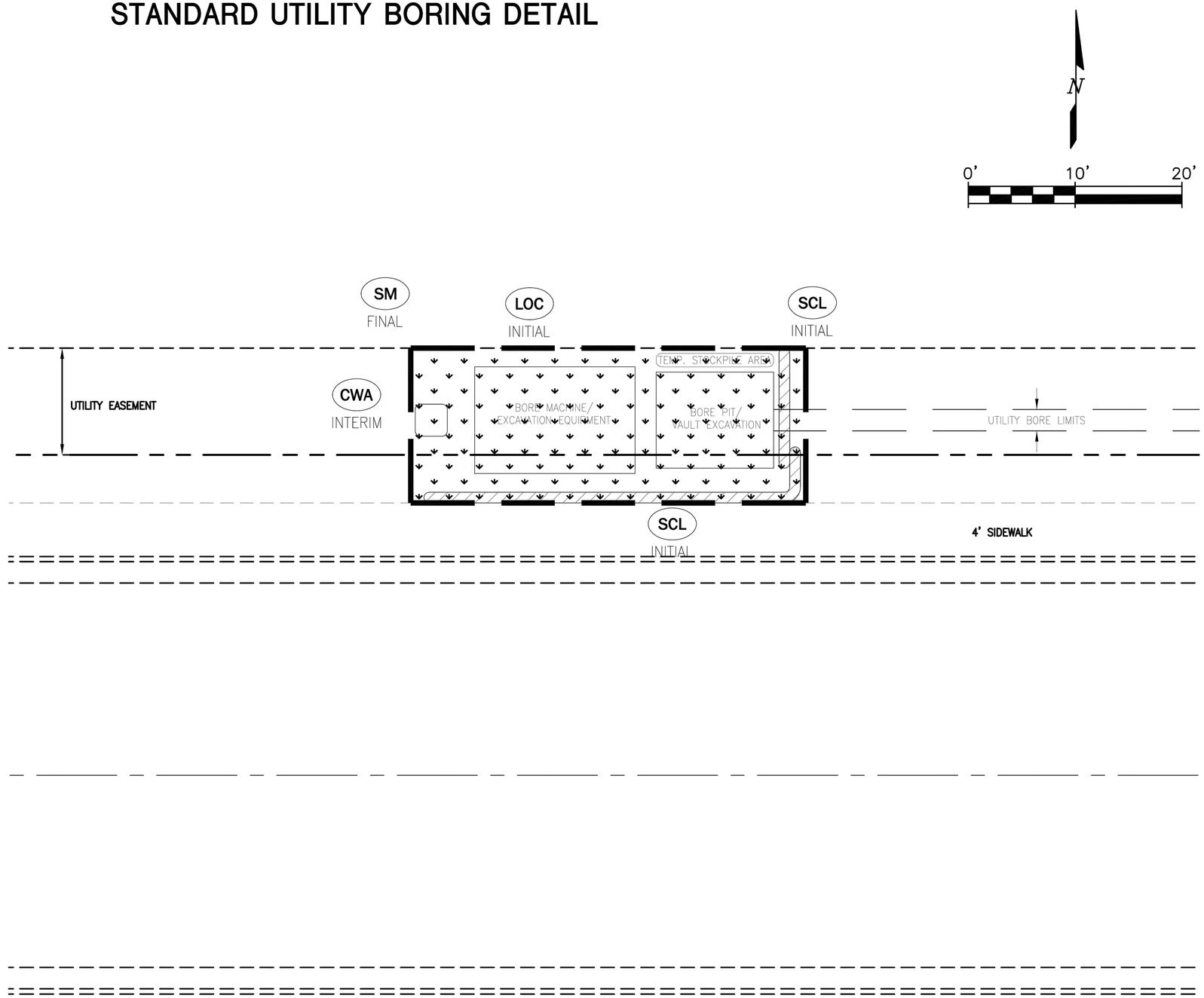
DRAWING
SHEET 6 OF 8

STANDARD UTILITY BORING DETAIL

STANDARD NOTES FOR A UTILITY BORING OPERATION:

1. THIS DETAIL HAS BEEN PREPARED FOR USE WITH A SMALL UTILITY CONSTRUCTION PROJECTS ANNUALESQCPPERMIT FOR DIRECTIONAL BORING OPERATIONS.
2. ALL UTILITY WORK WITHIN EL PASO COUNTY RIGHT OF WAY SHALL BE REQUIRED TO OBTAIN A EL PASO COUN RIGHT OF WAY USE AND CONSTRUCTION PERMIT IN ACCORDANCE WITH THE ROADWAY MANUAL.
3. ALL BMPS SHALL BE INSTALLED PER THE DOUGLAS COUNTY SMALL UTILITYESQCPPLAN STANDARD NOTES AND DETAILS.
4. THE DIMENSIONS AND SITE LAYOUT SHOWN ARE APPROXIMATE, AND MAY VARY BASED ON SITE CONDITIONS AND WORK REQUIREMENTS.
5. SEDIMENT CONTROL REQUIREMENTS: IN LANDSCAPED OR NATIVE/UNDEVELOPED AREAS, THE BMP'S SHALL BE INSTALLED DOWN-GRADIENT OF THE WORK AREAS.
6. ALL EXCAVATED MATERIAL SHALL BE CONTAINED WITHIN THE LIMITS OF CONSTRUCTION. SEDIMENT CONTROL LOG OR REINFORCED ROCK BERM SHALL BE INSTALLED DOWN-GRADIENT OF ANY STOCKPILES OR SPOILS PILES.
7. A CONCRETE WASHOUT AREA (CWA) SHALL BE REQUIRED IF THERE IS CONCRETE WORK ONSITE.
8. THE BMPS SHOWN ON THIS DETAIL REPRESENT THE MINIMUM REQUIREMENTS. ADDITIONAL BMPS MAY BE REQUIRED BASED ON SITE CONDITIONS, AND AT THE DISCRETION OF THE EROSION CONTROL INSPECTOR.
9. ALL BORING FLUIDS SHALL BE ADEQUATELY CONTAINED. ANY BORING FLUIDS THAT REACH THE PAVEMENT SURFACE OR OTHER AREAS THAT MAY IMPACT THE STORM SEWER SYSTEM SHALL BE CLEANED UP IMMEDIATELY.
10. FINAL STABILIZATION MEASURES SHALL BE IMPLEMENTED 7 DAYS FOLLOWING THE COMPLETION OF THE UTILITY CONSTRUCTION. FINAL STABILIZATION INCLUDES REPLACEMENT OF LANDSCAPING, PAVEMENT, OR DRILL SEEDING AND STRAW CRIMP MULCHING (SM). EROSION CONTROL BLANKETS (ECB) MAY BE USED IN LIEU OF STRAW CRIMP MULCHING OVER SEEDED AREAS.



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STANDARD UTILITY TRENCHING DETAIL

STANDARD NOTES FOR A UTILITY TRENCH:

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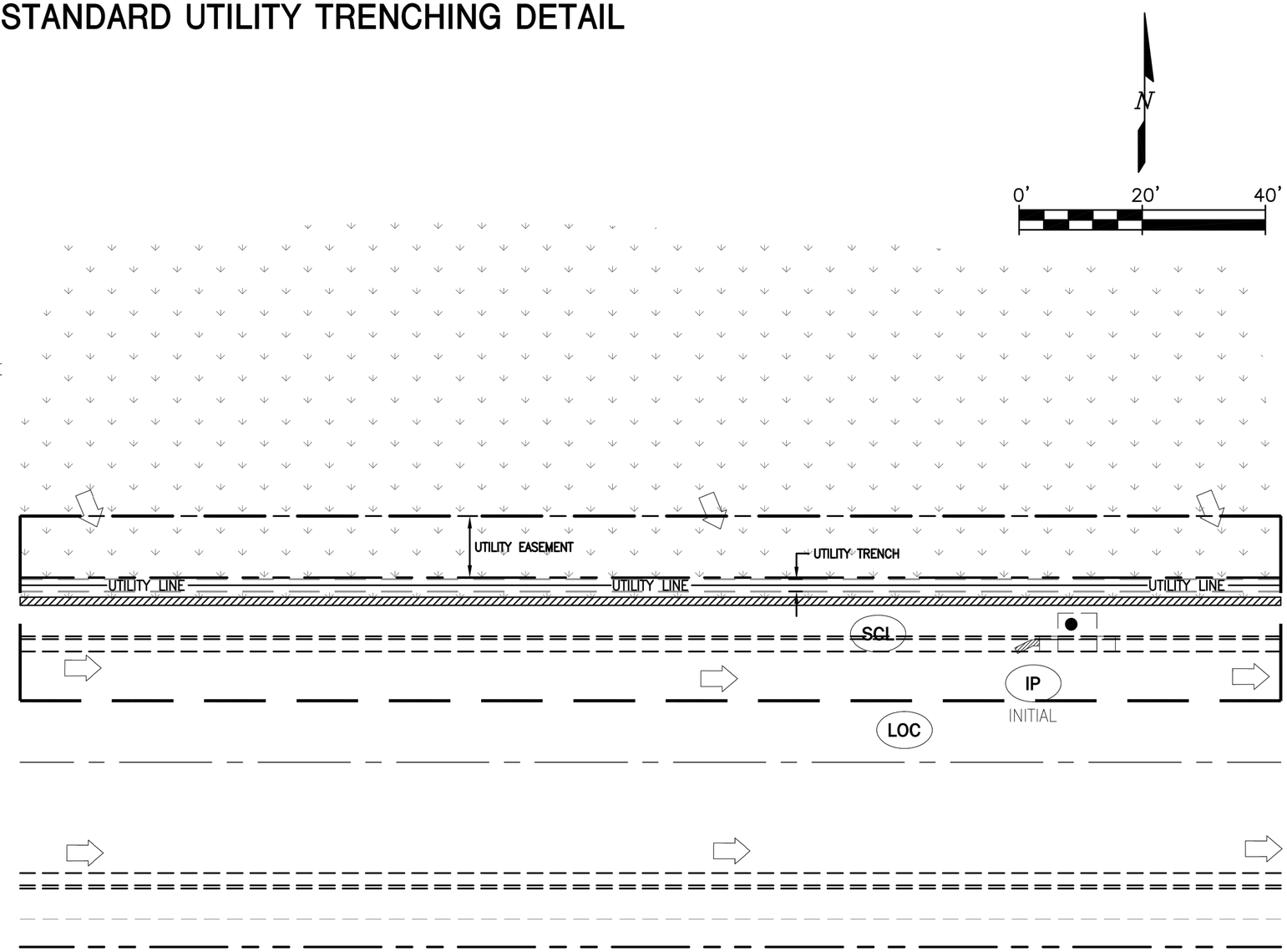
2. ALL UTILITY WORK WITHIN A EL PASO COUN RIGHT OF WAY SHALL BE REQUIRED TO OBTAIN A EL PASO COUN RIGHT OF WAY USE AND CONSTRUCTION PERMIT IN ACCORDANCE WITH THE ROADWAY MANUAL.
3. ALL BMPS SHALL BE INSTALLED PER THE EL PASO COUN SMALL UTILITY ESQCP PLAN STANDARD NOTES AND DETAILS.
4. THE DIMENSION AND SITE LAYOUT SHOWN ARE APPROXIMATE, AND MAY VARY BASED ON SITE CONDITIONS AND WORK REQUIREMENTS.
5. ALL EXCAVATED MATERIAL SHALL BE CONTAINED WITHIN THE LIMITS OF CONSTRUCTION. SEDIMENT CONTROL LOG OR REINFORCED ROCK BERM SHALL BE INSTALLED DOWN-GRADIENT OF ANY STOCKPILES OR SPOILS PILES.
6. STORM SEWER INLET PROTECTION SHALL BE PROVIDED WHENEVER SOIL EROSION FROM THE EXCAVATED AREA HAS THE POTENTIAL OF ENTERING THE STORM DRAINAGE SYSTEM
7. WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL IS TO BE PLACED ON THE UPHILL SIDE OF TRENCHES.
8. WHEN EXCAVATED SPOILS ARE TEMPORARILY PLACED IN PAVED AREAS, THE PERMITTEE(S) SHALL BACKFILL ANY OPEN EXCAVATIONS AND CLEAN ALL PAVED AREAS BEFORE THE END OF EACH WORK DAY.
9. A CONCRETE WASHOUT AREA (CWA) SHALL BE REQUIRED IF THERE IS CONCRETE WORK ONSITE.
10. THE BMPS SHOWN ON THIS DETAIL REPRESENT THE MINIMUM REQUIREMENTS. ADDITIONAL BMPS MAY BE REQUIRED BASED ON SITE CONDITIONS, AND AT THE DISCRETION OF THE EROSION CONTROL INSPECTOR.
11. DEWATERING DISCHARGES SHALL BE FREE OF ANY SEDIMENT. THE PERMITTEE(S) SHALL SCHEDULE AN ONSITE INSPECTION WITH THE EROSION CONTROL INSPECTOR PRIOR TO THE START OF ANY SITE DEWATERING OPERATIONS.
12. CLEAN UP ALL SPILLS AND LEAKS USING "DRY" METHODS (WITH ABSORBENT MATERIALS AND/OR RAGS). IF SPILLS OCCUR ON DIRT AREAS, REMOVE THE CONTAMINATED SOIL AND DISPOSE OF PROPERLY.
13. FINAL STABILIZATION MEASURES SHALL BE IMPLEMENTED 7 DAYS FOLLOWING THE COMPLETION OF THE UTILITY CONSTRUCTION. FINAL STABILIZATION INCLUDES REPLACEMENT OF LANDSCAPING, PAVEMENT, OR DRILL SEEDING AND STRAW CRIMP MULCHING (SM). EROSION CONTROL BLANKETS (ECB) MAY BE USED IN LIEU OF STRAW CRIMP MULCHING OVER SEEDED AREAS.



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