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A. CITY OF LOVELAND GENERAL NOTES

- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE LARIMER COUNTY URBAN AREA STREET STANDARDS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE MOST RESTRICTIVE STANDARD SHALL APPLY. ALL WORK SHALL BE INSPECTED AND APPROVED BY THE LOCAL ENTITY.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE ENGINEER SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 1-800-922-1987, AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING EXCAVATION OR GRADING, TO HAVE ALL REGISTERED UTILITY LOCATIONS MARKED. OTHER UNREGISTERED UTILITY ENTITIES (I.E. DITCH / IRRIGATION COMPANY) ARE TO BE LOCATED BY CONTACTING THE RESPECTIVE REPRESENTATIVE. UTILITY SERVICE LATERALS ARE ALSO TO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- NO WORK MAY COMMENCE WITHIN ANY IMPROVED PUBLIC RIGHT-OF-WAY UNTIL A RIGHT-OF-WAY PERMIT OR DEVELOPMENT CONSTRUCTION PERMIT IS OBTAINED, IF APPLICABLE. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH MUTCD, TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY, (LOCAL ENTITY, COUNTY OR STATE), FOR APPROVAL. PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE LOCAL ENTITY ENGINEER AT LEAST 2 WORKING DAYS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS. IF THE LOCAL ENTITY ENGINEER IS NOT AVAILABLE AFTER PROPER NOTICE OF CONSTRUCTION ACTIVITY HAS BEEN PROVIDED, THE CONTRACTOR MAY COMMENCE WORK IN THE ENGINEER'S ABSENCE. HOWEVER, THE LOCAL ENTITY RESERVES THE RIGHT NOT TO ACCEPT THE IMPROVEMENT IF SUBSEQUENT TESTING REVEALS AN IMPROPER INSTALLATION.
- THE ENGINEER WHO HAS PREPARED THESE PLANS, BY EXECUTION AND/OR SEAL HEREOF, DOES HEREBY AFFIRM RESPONSIBILITY TO THE CITY OF LOVELAND, AS BENEFICIARY OF SAID ENGINEER'S WORK, FOR ANY ERRORS AND OMISSIONS CONTAINED IN THESE PLANS, AND APPROVAL OF THESE PLANS BY THE CITY ENGINEER SHALL NOT RELIEVE THE ENGINEER WHO HAS PREPARED THESE PLANS OF ALL SUCH RESPONSIBILITY. FURTHER, TO THE EXTENT PERMITTED BY LAW, THE ENGINEER HEREBY AGREES TO HOLD HARMLESS AND INDEMNIFY THE CITY, AND ITS OFFICERS AND EMPLOYEES, FROM AND AGAINST ALL LIABILITIES, CLAIMS, AND DEMANDS WHICH MAY ARISE FROM ANY ERRORS AND OMISSIONS CONTAINED IN THESE PLANS.
- ALL UTILITY INSTALLATIONS WITHIN OR ACROSS THE ROADBED OF NEW RESIDENTIAL ROADS MUST BE COMPLETED PRIOR TO THE FINAL STAGES OF ROAD CONSTRUCTION. FOR THE PURPOSES OF THESE STANDARDS, ANY WORK EXCEPT C/G ABOVE THE SUBGRADE IS CONSIDERED FINAL STAGE WORK. ALL SERVICE LINES MUST BE STUBBED TO THE PROPERTY LINES AND MARKED SO AS TO REDUCE THE EXCAVATION NECESSARY FOR BUILDING CONNECTIONS.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE LOCAL ENTITY, AND ALL UTILITY COMPANIES INVOLVED, WITH REGARD TO RELOCATIONS, ADJUSTMENTS, EXTENSIONS AND REARRANGEMENTS OF EXISTING UTILITIES DURING CONSTRUCTION, AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, IN ADVANCE, ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE AS WELL AS THE UTILITY COMPANIES.
- NO WORK MAY COMMENCE WITHIN ANY PUBLIC STORM WATER, SANITARY SEWER OR POTABLE WATER SYSTEM UNTIL THE CONTRACTOR NOTIFIES THE UTILITY PROVIDER. NOTIFICATION SHALL BE A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF ANY WORK. AT THE DISCRETION OF THE WATER UTILITY PROVIDER, A PRE-CONSTRUCTION MEETING MAY BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANY FOR ANY UTILITY CROSSINGS.
- THE TYPE, SIZE, LOCATION AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNKNOWN UNDERGROUND UTILITIES.
- WHEN APPLICABLE, THE CONTRACTOR SHALL HAVE ONSITE AT ALL TIMES, EACH OF THE FOLLOWING:
 - THE NOTICE OF INTENT (NOI)
 - BEST MANAGEMENT PRACTICES (BMP) MAINTENANCE FOLDER
 - UP TO DATE STORMWATER MANAGEMENT PLAN (SWMP) THAT ACCURATELY REPRESENTS CURRENT FIELD CONDITIONS
 - ONE (1) SIGNED COPY OF THE APPROVED PLANS
 - ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS
 - A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY. REFER TO OSHA PUBLICATION 2226, EXCAVATING AND TRENCHING.
- IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE DESIGNER AND THE LOCAL ENTITY ENGINEER IMMEDIATELY.
- ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH MUTCD, TO THE APPROPRIATE RIGHT-OF-WAY AUTHORITY, (LOCAL ENTITY, COUNTY OR STATE), FOR APPROVAL. PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
- THE DEVELOPER IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS, SHOWN ON THESE DRAWINGS, OR DESIGNATED TO BE PROVIDED, INSTALLED, OR CONSTRUCTED, UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO MUD OR DEBRIS SHALL BE TRACKED ONTO THE EXISTING PUBLIC STREET SYSTEM. MUD AND DEBRIS MUST BE REMOVED BY THE END OF EACH WORKING DAY BY AN APPROPRIATE MECHANICAL METHOD (I.E. MACHINE BROOM SWEEP, LIGHT DUTY FRONT-END LOADER, ETC.) OR AS APPROVED BY THE LOCAL ENTITY STREET INSPECTOR.

CITY OF LOVELAND GENERAL NOTES (CONTINUED)

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE, AND AVAILABLE TO THE LOCAL ENTITY'S INSPECTOR AT ALL TIMES.
- DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE DESIGNER FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.
- THE CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO PERMIT FOR STORM WATER DISCHARGE, THE STORM WATER MANAGEMENT PLAN, AND THE EROSION CONTROL PLAN
- ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION AND AT AREAS WITH DISTURBED SOIL, ON- OR OFF-SITE, PRIOR TO ANY OTHER GROUND-DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS IS STABILIZED WITH HARD SURFACE OR LANDSCAPING. TO MITIGATE EROSION, THE CONTRACTOR SHALL USE STANDARD EROSION CONTROL TECHNIQUES DESCRIBED IN THE URBAN STORM DRAINAGE CRITERIA MANUAL, VOLUME 3 - BEST MANAGEMENT PRACTICES, AS PUBLISHED BY THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (UDFCD).
- THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF THE WATER LINES AND DRY UTILITIES.
- THERE SHALL BE NO SITE CONSTRUCTION ACTIVITIES ON SATURDAYS, UNLESS SPECIFICALLY APPROVED BY THE LOCAL ENTITY ENGINEER, AND NO SITE CONSTRUCTION ACTIVITIES ON SUNDAYS OR HOLIDAYS, UNLESS THERE IS PRIOR WRITTEN APPROVAL BY THE LOCAL ENTITY.
- THE DESIGNER SHALL PROVIDE ON THE COVER SHEET THE LOCATION OF THE NEAREST SURVEY BENCHMARK FOR THIS PROJECT AS WELL AS THE BASIS OF BEARING. THE BENCHMARK SHALL BE ON THE CURRENT CITY APPROVED DATUM.
- UPON COMPLETION OF CONSTRUCTION, THE SITE SHALL BE CLEANED AND RESTORED TO A CONDITION EQUAL TO, OR BETTER THAN, THAT WHICH EXISTED BEFORE CONSTRUCTION, OR TO THE GRADES AND CONDITION AS REQUIRED BY THESE PLANS.
- EXISTING FENCES, TREES, STREETS, SIDEWALKS, CURBS AND GUTTERS, LANDSCAPING, STRUCTURES, AND IMPROVEMENTS DESTROYED, DAMAGED OR REMOVED DUE TO CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED OR RESTORED IN LIKE KIND AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE INDICATED ON THESE PLANS.
- OVERLOT GRADING CONSTRUCTION MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR "STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY". CONTACT THE COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, WATER QUALITY CONTROL DIVISION, PHONE (303) 692-3500.
- A STATE CONSTRUCTION DEWATERING WASTEWATER DISCHARGE PERMIT IS REQUIRED IF DEWATERING IS REQUIRED IN ORDER TO INSTALL UTILITIES OR BEFORE WATER IS DISCHARGED INTO A STORM SEWER, CHANNEL, IRRIGATION DITCH OR ANY WATERS OF THE UNITED STATES.
- THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND VERIFYING ELEVATIONS OF ALL EXISTING SEWER MAINS, WATER MAINS, CURBS, GUTTERS AND OTHER UTILITIES AT THE POINTS OF CONNECTION SHOWN ON THE PLANS, AND AT ANY UTILITY CROSSINGS PRIOR TO INSTALLING ANY OF THE NEW IMPROVEMENTS. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO MODIFY THE DESIGN. DESIGN MODIFICATION(S) MUST BE APPROVED BY THE LOCAL ENTITY PRIOR TO BEGINNING CONSTRUCTION.
- AFTER ACCEPTANCE BY THE LOCAL ENTITY, PUBLIC IMPROVEMENTS DEPICTED IN THESE PLANS SHALL BE GUARANTEED TO BE FREE FROM MATERIAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF TWO YEARS FROM THE DATE OF ACCEPTANCE.
- PAVING SHALL NOT START UNTIL A SOILS REPORT AND PAVEMENT DESIGN IS ACCEPTED BY THE LOCAL ENTITY ENGINEER AND SUBGRADE COMPACTION TESTS ARE TAKEN AND ACCEPTED BY THE LOCAL ENTITY ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING SOILS TESTS WITHIN THE PUBLIC RIGHT-OF-WAY AFTER RIGHT OF WAY GRADING AND ALL UTILITY TRENCH WORK IS COMPLETE. IF THE FINAL SOILS/PAVEMENT DESIGN REPORT DOES NOT CORRESPOND WITH THE RESULTS OF THE ORIGINAL GEOTECHNICAL REPORT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A RE-DESIGN OF THE SUBJECT PAVEMENT SECTION OR, THE CONTRACTOR MAY USE THE LOCAL ENTITY'S DEFAULT PAVEMENT THICKNESS SECTION(S), REGARDLESS OF THE OPTION USED, ALL FINAL SOILS/PAVEMENT DESIGN REPORTS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER. THE FINAL REPORT SHALL BE SUBMITTED TO THE INSPECTOR A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO PLACEMENT OF BASE AND ASPHALT. PLACEMENT OF BASE AND ASPHALT SHALL NOT OCCUR UNTIL THE ENGINEERING DIVISION APPROVES THE FINAL REPORT.
- ALL ROAD CONSTRUCTION IN AREAS DESIGNATED AS WILD FIRE HAZARD AREAS SHALL BE DONE IN ACCORDANCE WITH THE CONSTRUCTION CRITERIA AS ESTABLISHED IN THE WILD FIRE HAZARD AREA MITIGATION REGULATIONS IN FORCE AT THE TIME OF FINAL PLAT APPROVAL.
- PORTIONS OF LARIMER COUNTY ARE WITHIN OVERLAY DISTRICTS. THE LARIMER COUNTY FLOODPLAIN RESOLUTION SHOULD BE REFERRED TO FOR ADDITIONAL CRITERIA FOR ROADS WITHIN THESE DISTRICTS.
- STANDARD HANDICAP RAMPS ARE TO BE CONSTRUCTED AT ALL CURB RETURNS AND AT ALL "T" INTERSECTIONS.
- ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.
- APPROVED VARIANCES ARE LISTED AS FOLLOWS: (PLAN SET MUST HAVE A LIST OF ALL APPLICABLE VARIANCES FOR THE PROJECT). IF THIS NOTE APPLIES, THEN THIS SPECIAL NOTE SHALL BE PLACED ON THE COVER SHEET OF THE CIVIL CONSTRUCTION PLANS.


B. CITY OF LOVELAND

STANDARD EROSION AND SEDIMENT CONTROL CONSTRUCTION PLAN NOTES:

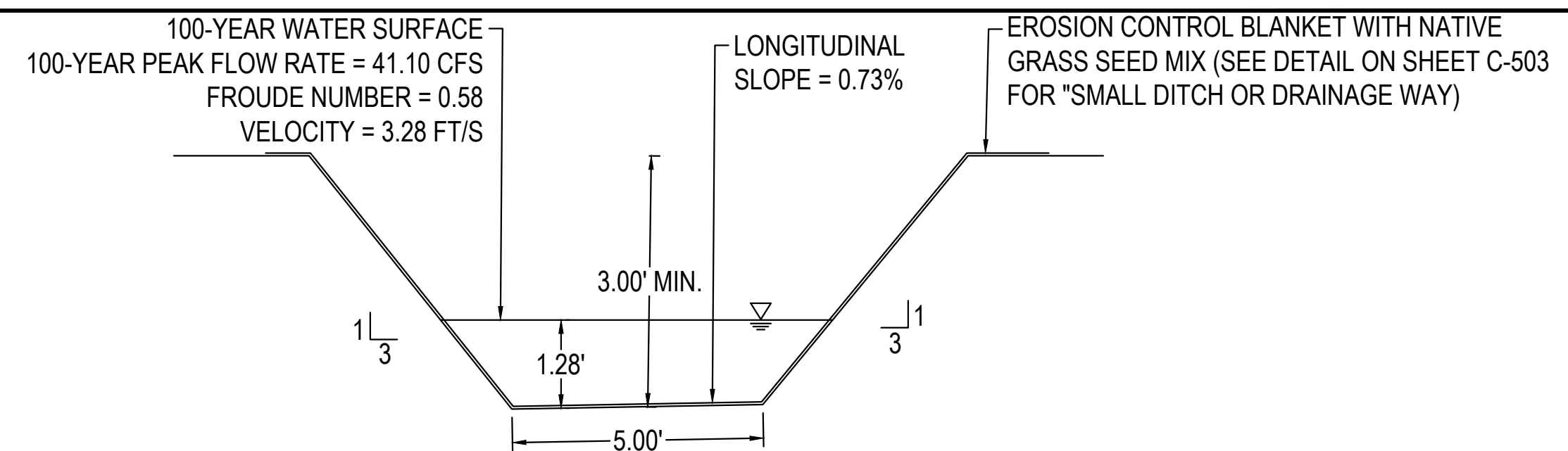
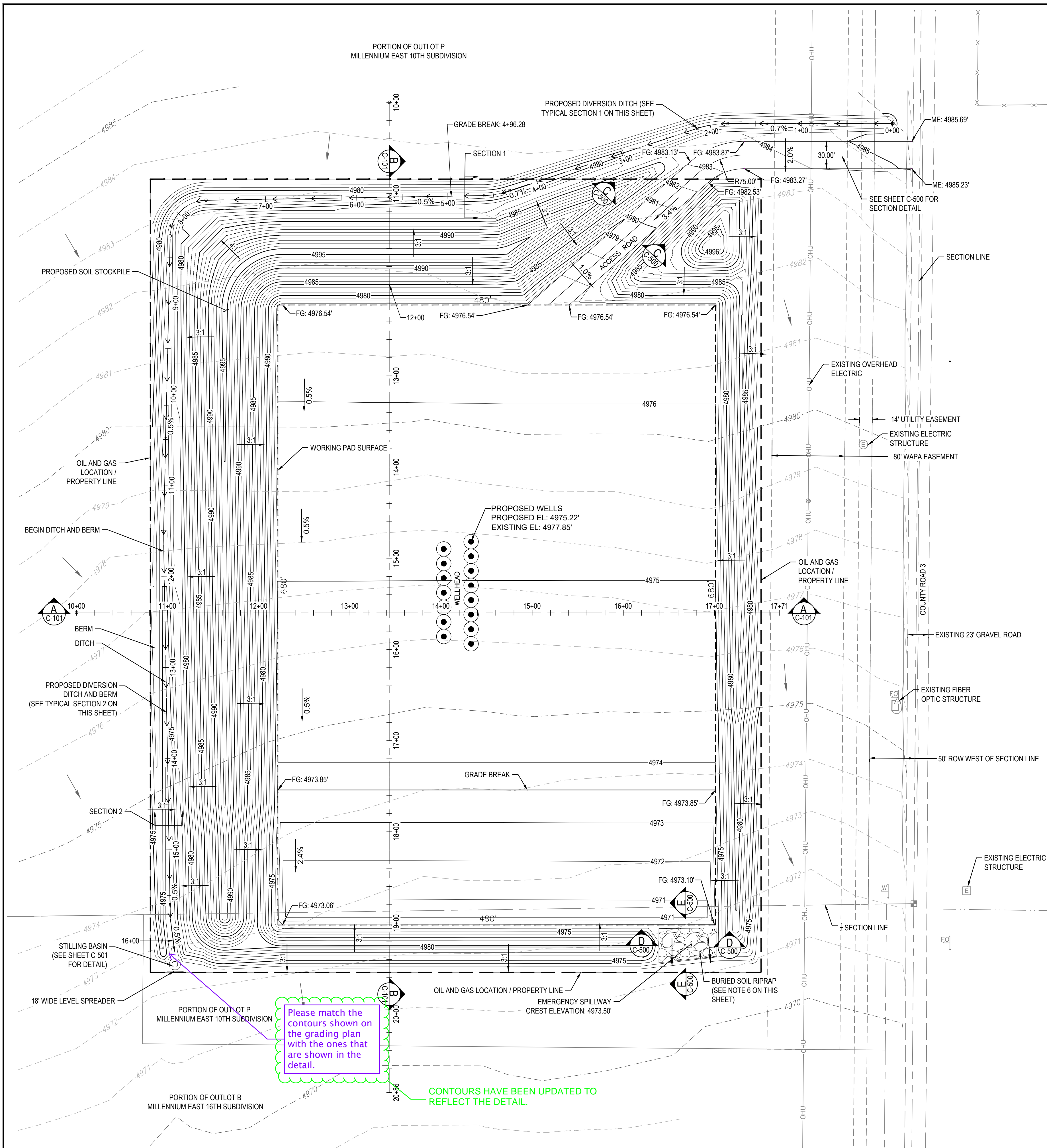
- THE EROSION CONTROL INSPECTOR MUST BE NOTIFIED AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO ANY CONSTRUCTION ON THIS SITE.
- THERE SHALL BE NO EARTH-DISTURBING ACTIVITY OUTSIDE THE LIMITS DESIGNATED ON THE ACCEPTED PLANS.
- ALL REQUIRED PERIMETER SILT AND CONSTRUCTION FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY (STOCKPILING, STRIPPING, GRADING, ETC.). ALL OTHER REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE APPROPRIATE TIME IN THE CONSTRUCTION SEQUENCE AS INDICATED IN THE APPROVED PROJECT SCHEDULE, CONSTRUCTION PLANS, AND EROSION CONTROL REPORT.
- AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ON-SITE EROSION INCLUDING KEEPING THE PROPERTY SUFFICIENTLY WATERED SO AS TO MINIMIZE WIND BLOWN SEDIMENT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL FACILITIES SHOWN HEREIN.
- PRE-DISTURBANCE VEGETATION SHALL BE PROTECTED AND RETAINED WHEREVER POSSIBLE. REMOVAL OR DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO THE AREA(S) REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS, AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.
- ALL SOILS EXPOSED DURING LAND DISTURBING ACTIVITY (STRIPPING, GRADING, UTILITY INSTALLATIONS, STOCKPILING, FILLING, ETC.) SHALL BE KEPT IN A ROUGHENED CONDITION BY RIPPING OR DISKING ALONG LAND CONTOURS UNTIL MULCH, VEGETATION, OR OTHER PERMANENT EROSION CONTROL BMPs ARE INSTALLED. NO SOILS IN AREAS OUTSIDE PROJECT STREET RIGHTS-OF-WAY SHALL REMAIN EXPOSED BY LAND DISTURBING ACTIVITY FOR MORE THAN THIRTY (30) DAYS BEFORE REQUIRED TEMPORARY OR PERMANENT EROSION CONTROL (E.G. SEED/MULCH, LANDSCAPING, ETC.) IS INSTALLED, UNLESS OTHERWISE APPROVED BY THE CITY OF LOVELAND.
- IN ORDER TO MINIMIZE EROSION POTENTIAL, ALL TEMPORARY (STRUCTURAL) EROSION CONTROL MEASURES SHALL:
 - BE INSPECTED AT A MINIMUM OF ONCE EVERY TWO (2) WEEKS AND AFTER EACH SIGNIFICANT STORM EVENT AND REPAIRED OR RECONSTRUCTED AS NECESSARY IN ORDER TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
 - REMAIN IN PLACE UNTIL SUCH TIME AS ALL THE SURROUNDING DISTURBED AREAS ARE SUFFICIENTLY STABILIZED AS DETERMINED BY THE EROSION CONTROL INSPECTOR.
 - BE REMOVED AFTER THE SITE HAS BEEN SUFFICIENTLY STABILIZED AS DETERMINED BY THE EROSION CONTROL INSPECTOR.
- WHEN TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN UP AND REMOVAL OF ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE INFRASTRUCTURE AND OTHER PUBLIC FACILITIES.
- THE CONTRACTOR SHALL IMMEDIATELY CLEAN UP ANY CONSTRUCTION MATERIALS INADVERTENTLY DEPOSITED ON EXISTING STREETS, SIDEWALKS, OR OTHER PUBLIC RIGHTS OF WAY, AND MAKE SURE STREETS AND WALKWAYS ARE CLEANED AT THE END OF EACH WORKING DAY.
- ALL RETAINED SEDIMENTS, PARTICULARLY THOSE ON PAVED ROADWAY SURFACES, SHALL BE REMOVED AND DISPOSED OF IN A MANNER AND LOCATION SO AS NOT TO CAUSE THEIR RELEASE INTO ANY WATERS OF THE UNITED STATES.
- NO SOIL STOCKPILE SHALL EXCEED TEN (10) FEET IN HEIGHT. ALL SOIL STOCKPILES SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY SURFACE ROUGHENING, WATERING, AND PERIMETER SILT FENCING. ANY SOIL STOCKPILE REMAINING AFTER THIRTY (30) DAYS SHALL BE SEEDED AND MULCHED.
- THE STORM WATER VOLUME CAPACITY OF DETENTION PONDS WILL BE RESTORED AND STORM SEWER LINES WILL BE CLEANED UPON COMPLETION OF THE PROJECT AND BEFORE TURNING THE MAINTENANCE OVER TO THE CITY OF LOVELAND OR HOMEOWNERS ASSOCIATION (HOA).
- CITY ORDINANCE AND COLORADO DISCHARGE PERMIT SYSTEM (CDPS) REQUIREMENTS MAKE IT UNLAWFUL TO DISCHARGE OR ALLOW THE DISCHARGE OF ANY POLLUTANT OR CONTAMINATED WATER FROM CONSTRUCTION SITES. POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, OIL AND GAS PRODUCTS, LITTER, AND SANITARY WASTE. THE CONTRACTOR SHALL AT ALL TIMES TAKE WHATEVER MEASURES ARE NECESSARY TO ASSURE THE PROPER CONTAINMENT AND DISPOSAL OF POLLUTANTS ON THE SITE IN ACCORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- A DESIGNATED AREA SHALL BE PROVIDED ON SITE FOR CONCRETE TRUCK CHUTE WASHOUT. THE AREA SHALL BE CONSTRUCTED SO AS TO CONTAIN WASHOUT MATERIAL AND LOCATED AT LEAST FIFTY (50) FEET AWAY FROM ANY WATERWAY DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION ACTIVITIES THE CONCRETE WASHOUT MATERIAL WILL BE REMOVED AND PROPERLY DISPOSED OF PRIOR TO THE AREA BEING RESTORED.
- TO ENSURE THAT SEDIMENT DOES NOT MOVE OFF OF INDIVIDUAL LOTS ONE OR MORE OF THE FOLLOWING SEDIMENT/EROSION CONTROL BMPs SHALL BE INSTALLED AND MAINTAINED UNTIL THE LOTS ARE SUFFICIENTLY STABILIZED, AS DETERMINED BY THE EROSION CONTROL INSPECTOR, (LOVELAND GMA & CITY LIMITS ONLY).
 - BELOW ALL GUTTER DOWNSPOUTS.
 - OUT TO DRAINAGE SWALES.
 - ALONG LOT PERIMETER.
 - OTHER LOCATIONS, IF NEEDED.
- CONDITIONS IN THE FIELD MAY WARRANT EROSION CONTROL MEASURES IN ADDITION TO WHAT IS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL IMPLEMENT WHATEVER MEASURES ARE DETERMINED NECESSARY, AS DIRECTED BY THE CITY OF LOVELAND.
- A VEHICLE TRACKING CONTROL PAD SHALL BE INSTALLED WHENEVER IT IS NECESSARY FOR CONSTRUCTION EQUIPMENT INCLUDING BUT NOT LIMITED TO PERSONAL VEHICLES EXITING EXISTING ROADWAYS. NO EARTHEN MATERIALS, I.E., STONE, DIRT, ETC., SHALL BE PLACED IN THE CURB & GUTTER OR ROADWAY AS A RAMP TO ACCESS TEMPORARY STOCKPILE(S), STAGING AREA(S), CONSTRUCTION MATERIAL(S), CONCRETE WASHOUT AREA(S) AND/OR BUILDING SITE(S).

Our Standard Erosion & Sediment Control Construction Plan Notes have recently been revised. Please update the Standard Erosion & Sediment Control Construction Plan Notes to the most recent version (May 23, 2022), which can be found on our web site at the following link:
www.lovgov.org/services/public-works/stormwater/stormwater-standards.

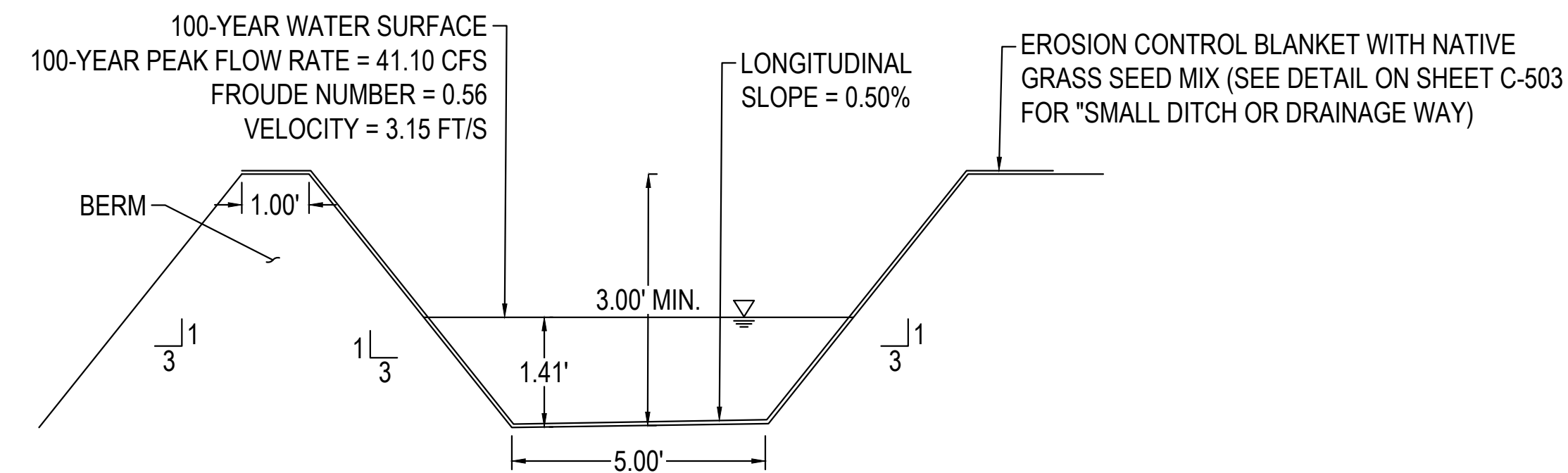
THE EROSION & SEDIMENT CONTROL NOTES HAVE BEEN UPDATED.

A		ISSUED FOR REVIEW		9/1/2022	TVG	SWC	TS	CALL BEFORE YOU DIG  Know what's below. Call before you dig.		CITY APPROVAL ACCEPTED BY: _____ CITY ENGINEER (or Designee)		DATE _____		PE STAMP  5970 GREENWOOD PLAZA BLVD. GREENWOOD VILLAGE, CO. 80111 303-751-0741 www.merrick.com		FOR AND ON BEHALF OF MERRICK & COMPANY		TITLE MRG, LP OIL AND GAS CE PAD CITY OF LOVELAND, COLORADO CIVIL CONSTRUCTION PLANS GENERAL NOTES		JOB NUMBER 65120236-10	
REV		REVISION DESCRIPTION		DATE		CHND[CHKD]APPR												SHEET C-001		2 of 15	

<p>TITLE</p> <p>MRG, LP OIL AND GAS CE PAD</p> <p>CITY OF LOVELAND, COLORADO</p> <p>CIVIL CONSTRUCTION PLANS</p> <p>GENERAL NOTES</p>	JOB NUMBER	65120236-10
	DATE	9/1/2022
	SHEET	C-002
		3 of 15



DIVERSION DITCH - TYPICAL SECTION 1



DIVERSION DITCH & BERM - TYPICAL SECTION 2

NOTES:

1. ALL ELEVATIONS AND CONTOURS SHOWN ARE TO TOP OF FINISHED GRADE.
2. WORKING PAD SURFACE AND ACCESS ROAD SHALL BE STABILIZED WITH 4-INCH DEPTH CDOT CLASS 6 AGGREGATE BASE COURSE (ABC).
3. ALL DISTURBED AREAS OUTSIDE THE LIMITS OF THE CDOT CLASS 6 ABC SHALL RECEIVE EROSION CONTROL SEEDING.
4. GROUND ELEVATIONS BASED ON NGVD 1929 DATUM.
5. CONTRACTOR TO REMOVE 4" OF TOPSOIL. SHOULD THE ACTUAL FIELD DEPTH OF THE TOPSOIL DIFFER, CONTACT ENGINEER.
6. REFERENCE MILE HIGH FLOOD DISTRICT "DIVISION 31 EARTHWORK - RIPRAP, BOULDERS, AND BEDDING" CONSTRUCTION SPECIFICATIONS (SECTION 31 37 00) FOR SOIL RIPRAP EXECUTION AND PLACEMENT. RIPRAP LAYER TO HAVE 18" THICKNESS. TOP OF RIPRAP TO HAVE 4" OF TOPSOIL COVER.

EARTHWORK VOLUMES

ALL REPORTED VOLUMES ARE BANK VOLUMES

TOTAL CUT: 34,693 CY

TOTAL FILL: 42,350 CY

CDOT CLASS 6 FILL IMPORT: 4.201 CY

TOTAL ESTIMATED TOPSOIL : 7.361 CY

RIPRAP (MHFD TYPE L: $D_{50} = 9"$) : 363CY

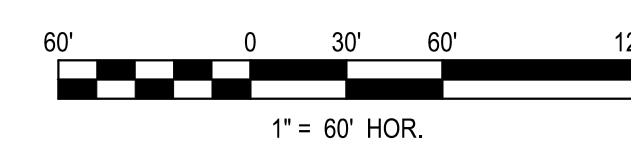
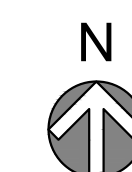
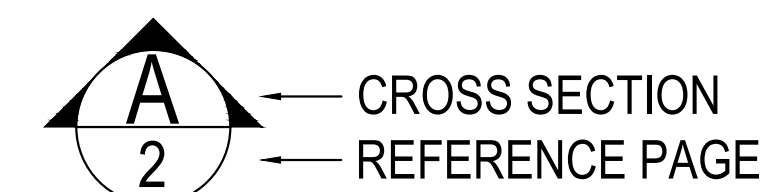
DISTURBED AREA

OIL AND GAS LOCATION: ± 13.4 AC

WORKING PAD SURFACE: ± 7.49 AC

ACCESS ROAD: ± 0.32 AC

LEGEND:



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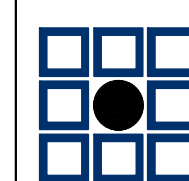
Know what's **below**.
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CITY APPROVAL

ACCEPTED BY:

CITY ENGINEER (or Designee)

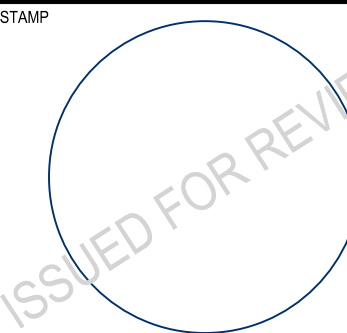
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FOR AND ON BEHALF OF MERRICK & COMPANY

TITLE

MRG, LP OIL AND GAS CE PAD

CITY OF LOVELAND, COLORADO

CIVIL CONSTRUCTION PLANS

DRILLING PHASE GRADING PLAN

JOB NUMBER

NUMBER
65120236-10

DATE 9/1/2022

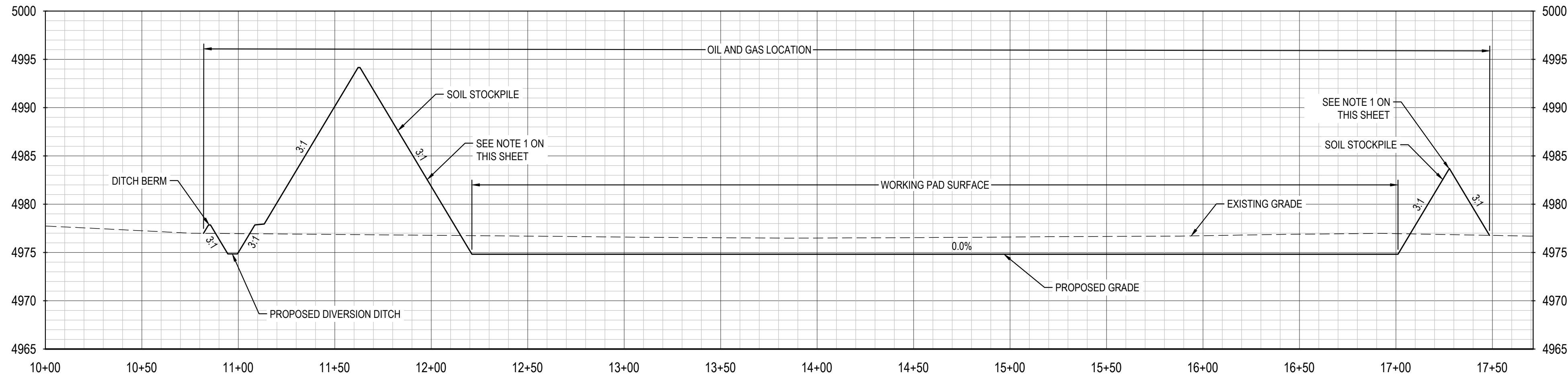
SHEET

C-100

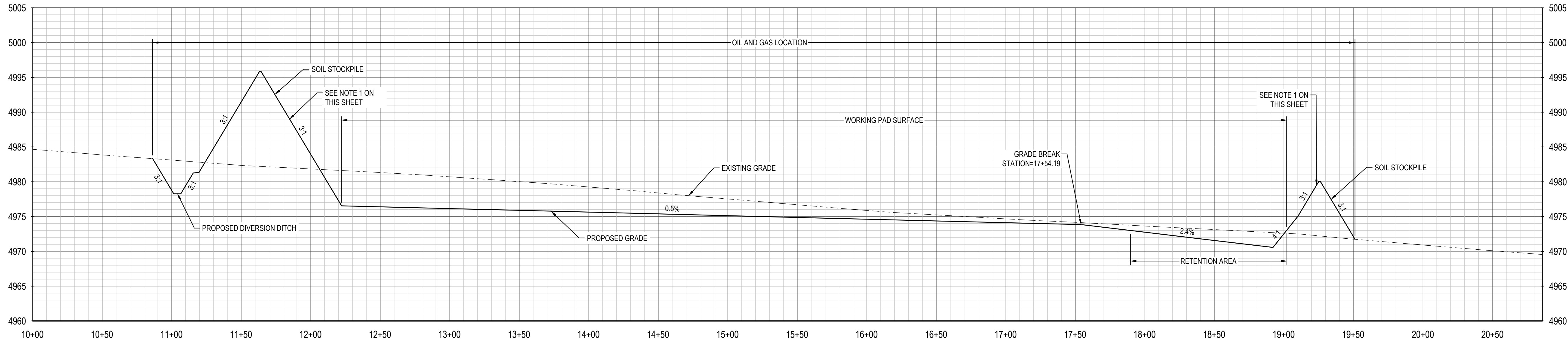
4 of 15

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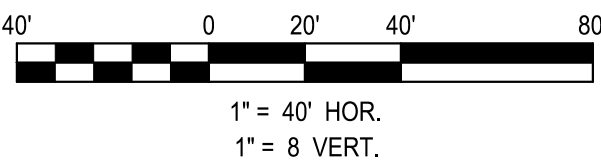
SECTION A (W-E)



SECTION B (N-S)



NOTES:
1. UPON COMPLETION OF THE STOCKPILES, THE STOCKPILE SURFACE IS TO BE COATED WITH A BIODEGRADABLE, SOIL TACKIFIER SUITABLE FOR USE IN ENVIRONMENTS WITH AVERAGE HUMIDITY LEVELS IN THE 40%-50% RANGE TO RESIST WIND EROSION.



REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR
A	ISSUED FOR REVIEW	9/1/2022	TVG	SWC	TS



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ACCEPTED BY: _____ DATE _____

CITY ENGINEER (or Designee)



ISSUED FOR REVIEW

FOR AND ON BEHALF OF MERRICK & COMPANY

TITLE

MRG, LP OIL AND GAS CE PAD
CITY OF LOVELAND, COLORADO
CIVIL CONSTRUCTION PLANS
DRILLING PHASE SECTION VIEWS

JOB NUMBER
65120236-10

DATE
9/1/2022

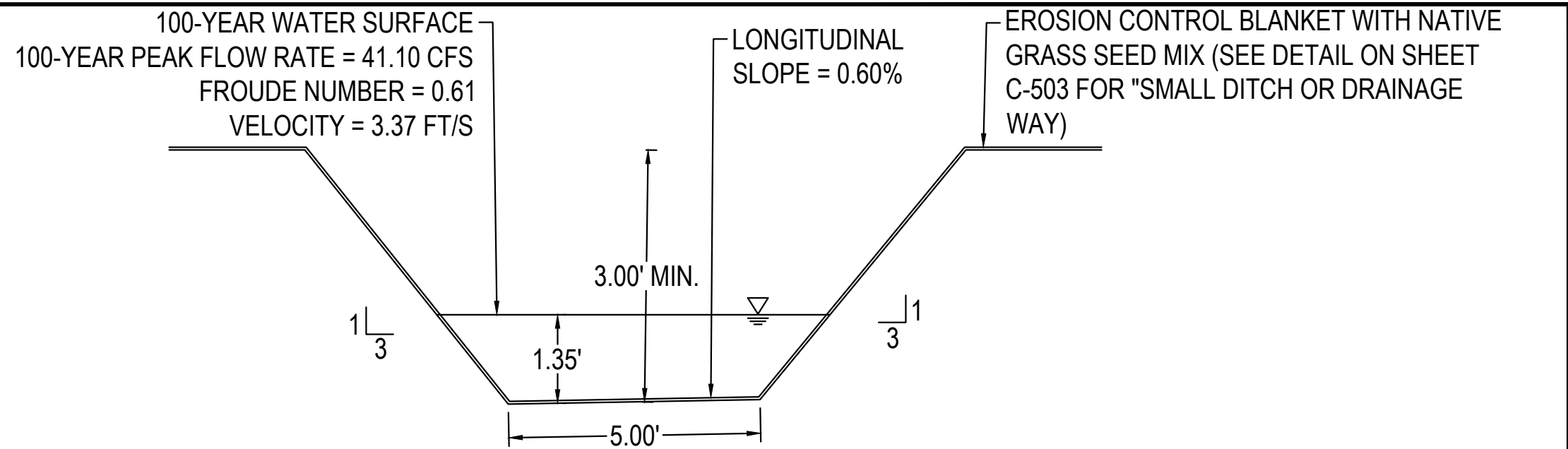
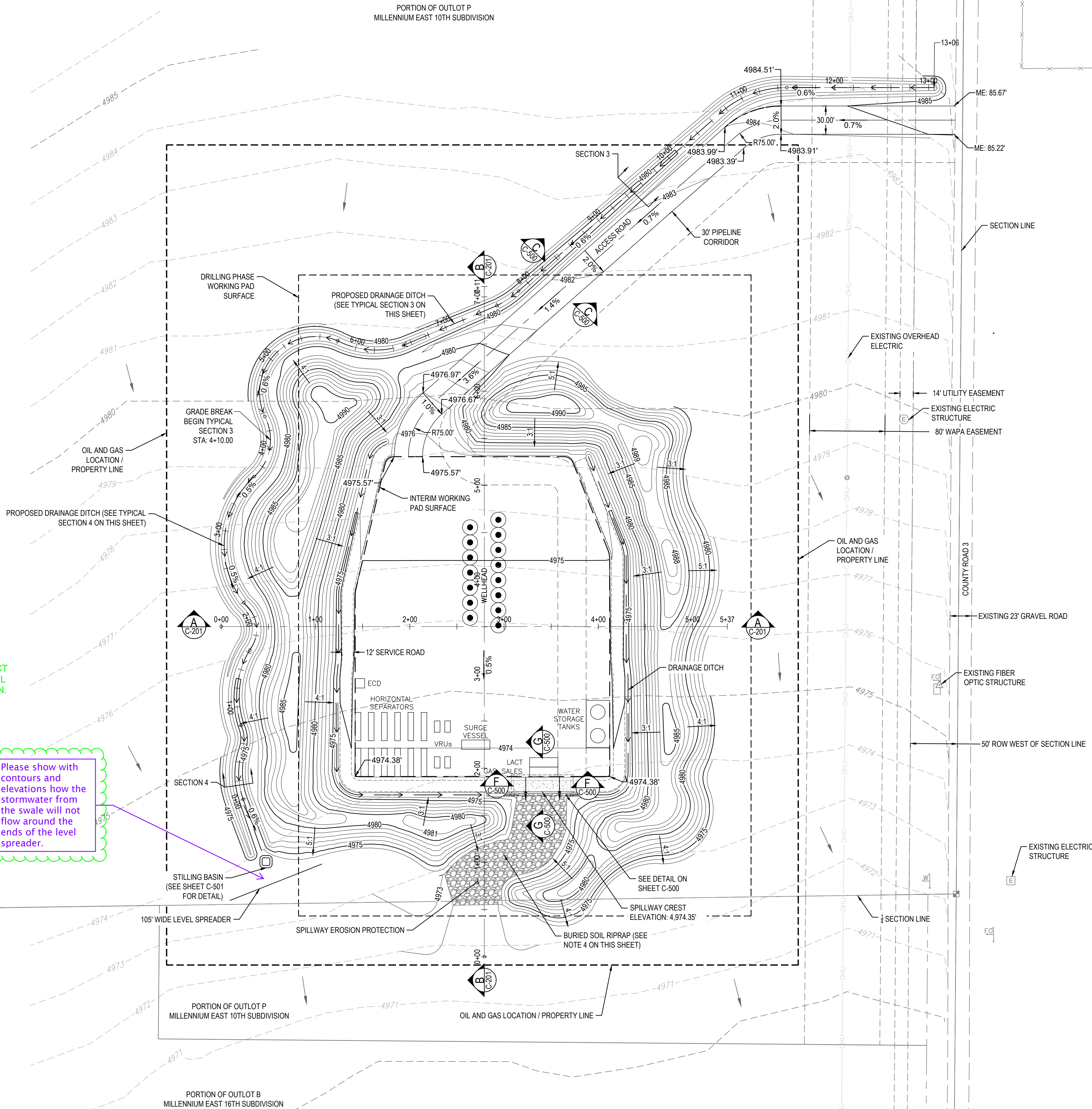
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C-101

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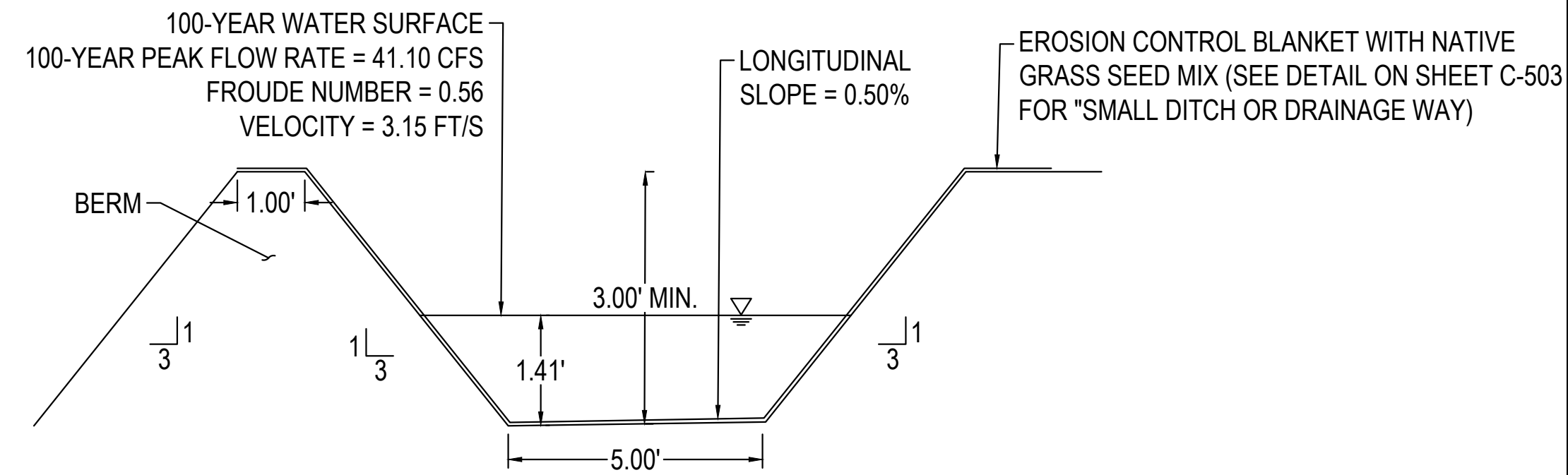
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GRADING HAS BEEN
UPDATED TO REFLECT
THE BASIN AND LEVEL
SPREADER LOCATION.

Please show with
contours and
elevations how the
stormwater from the
swale will not
flow around the
ends of the level
spreader.



DIVERSION DITCH - TYPICAL SECTION 3

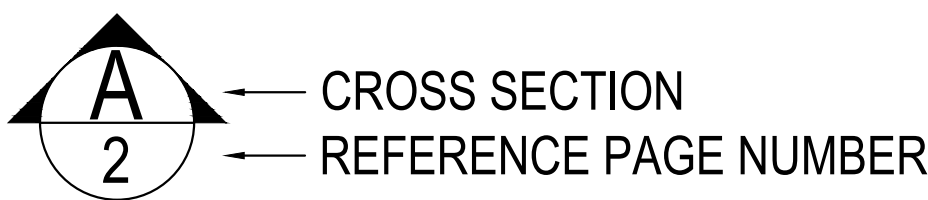


DIVERSION DITCH & BERM - TYPICAL SECTION 4

NOTES:

- ALL ELEVATIONS AND CONTOURS SHOWN ARE TO TOP OF FINISHED GRADE.
- ALL DISTURBED AREAS OUTSIDE THE LIMITS OF THE CDOT CLASS 6 ABC SHALL RECEIVE EROSION CONTROL SEEDING.
- GROUND ELEVATIONS BASED ON NGVD 1929 DATUM.
- REFERENCE MILE HIGH FLOOD DISTRICT "DIVISION 31 EARTHWORK - RIPRAP, BOULDERS, AND BEDDING" CONSTRUCTION SPECIFICATIONS (SECTION 31 37 00) FOR SOIL RIPRAP EXECUTION AND PLACEMENT. RIPRAP LAYER TO HAVE 18" THICKNESS. TOP OF RIPRAP TO HAVE 4" OF TOPSOIL COVER.

LEGEND:



EARTHWORK VOLUMES

ALL REPORTED VOLUMES ARE BANK VOLUMES

TOTAL CUT: 40,438 CY

TOTAL FILL: 49,388 CY

RIPRAP (MHFD TYPE L: D₅₀ = 9") : 1,341 CY

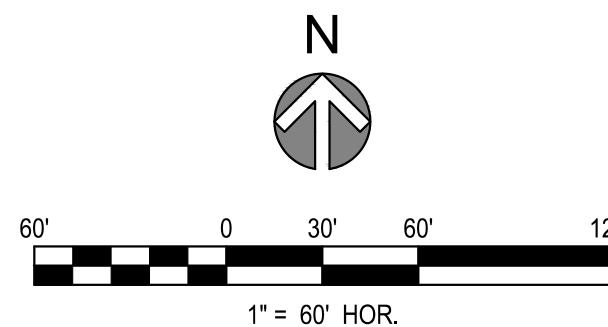
DISTURBED AREA

OIL AND GAS LOCATION: ±13.4 ACRES

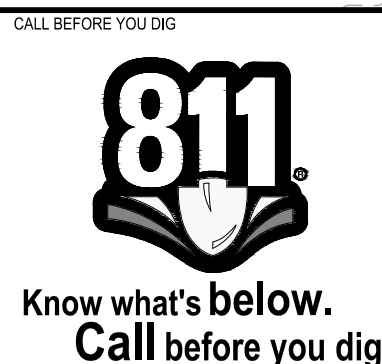
INTERIM WORKING PAD SURFACE: ±2.0 ACRES

RECLAIMED AREA: ±6.2 ACRES

UNRECLAIMED AREA: ±5.2 ACRES



REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR
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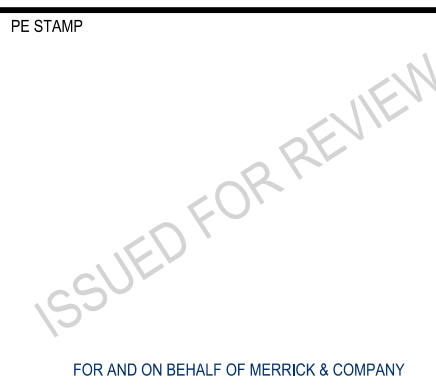
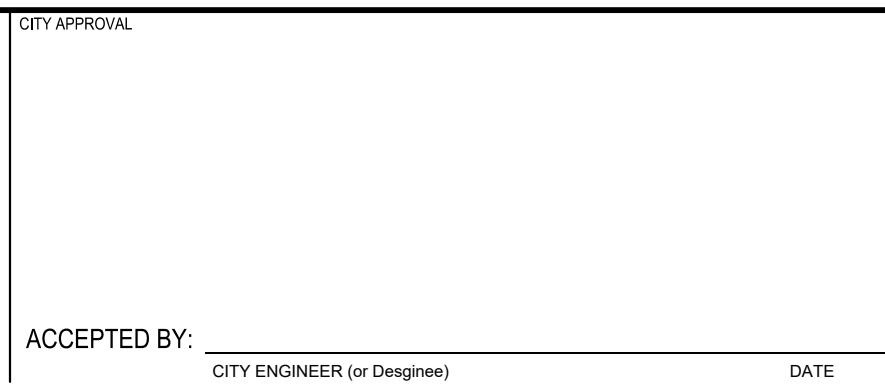
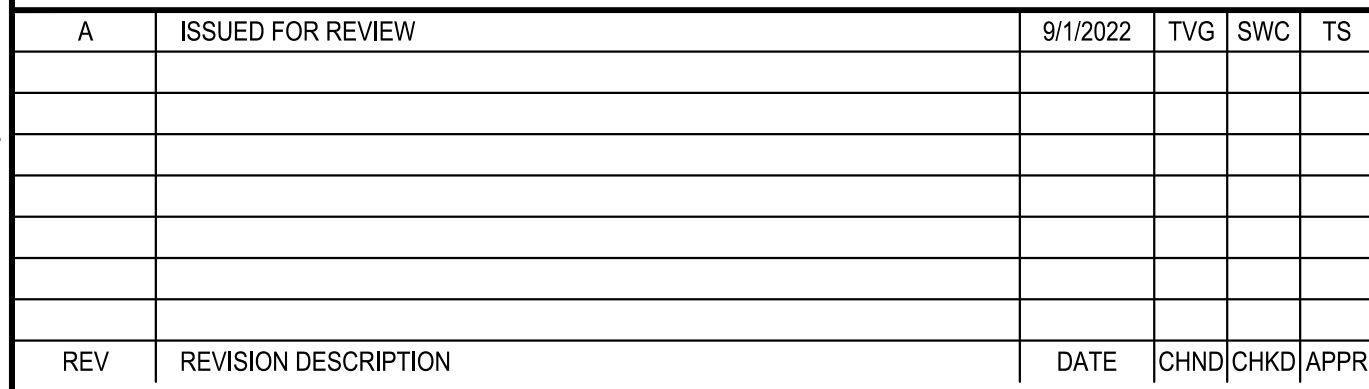
PE STAMP	TITLE	JOB NUMBER
	MRG, LP OIL AND GAS CE PAD	65120236-10
	CITY OF LOVELAND, COLORADO	DATE
	CIVIL CONSTRUCTION PLANS	9/1/2022
	PRODUCTION PHASE GRADING PLAN	SHEET
		C-200
		6 of 15

File Location: Q:\DENI\Projects\0178-00 CMD Centerra\Projects\023608-MRG Misc Oil and Gas\Design\CDs\Civil\SDPI\023608-SITE-prod.dwg Plot Date: 8/31/2022 11:56 AM Last Saved By: TSCARLETT

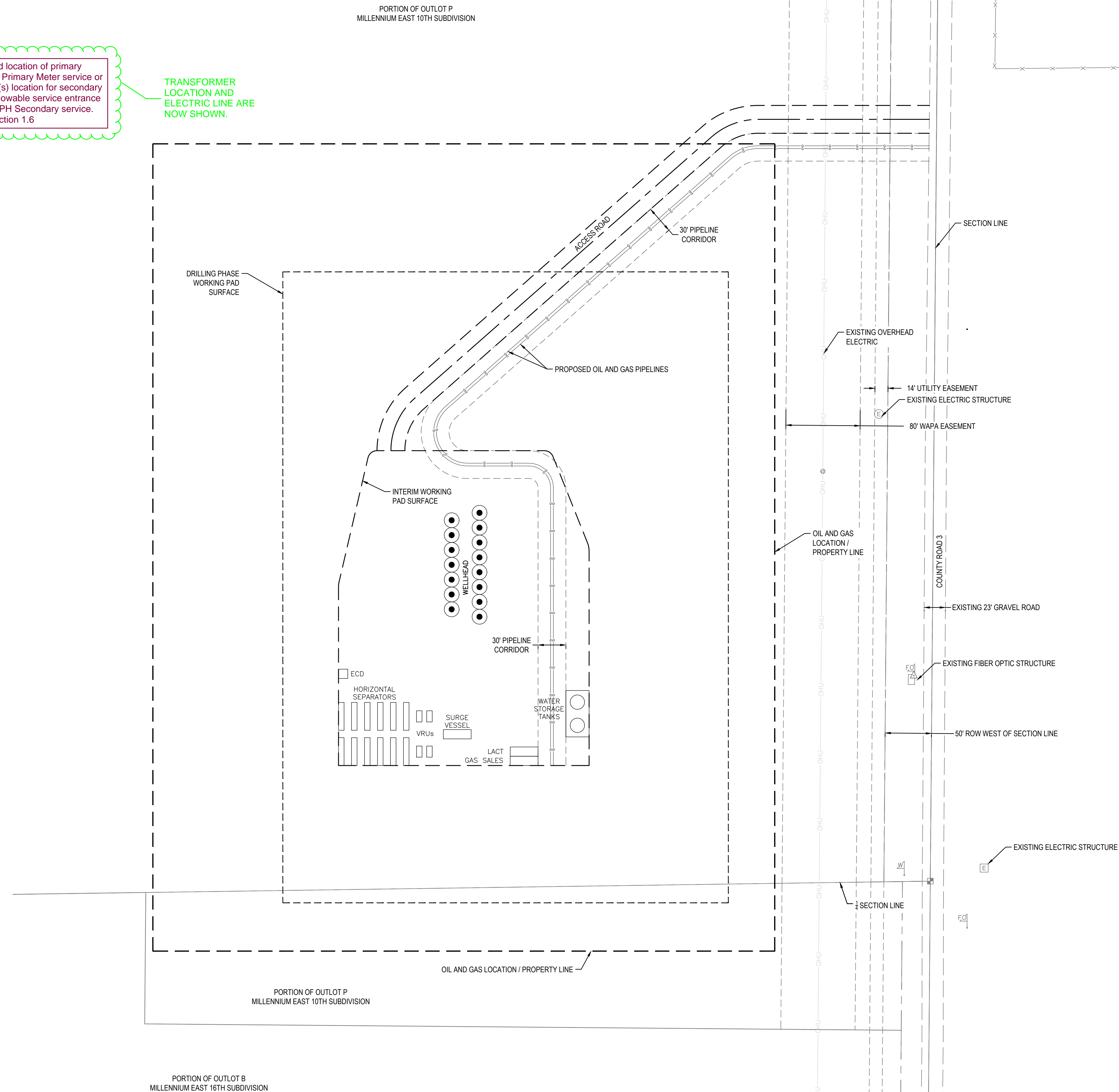
The profile view shows the vertical alignment of the proposed road. The horizontal axis represents stationing from 0+00 to 5+00. The vertical axis shows elevation in feet, ranging from 4965 to 4995. The existing ground is shown as a dashed line, and the proposed road grade is shown as a solid line. The proposed grade includes several vertical curves: a 3.1% grade from 0+00 to 0+50, a 3.1% grade from 0+50 to 1+00, a 4.1% grade from 1+00 to 1+50, a 2.0% grade from 1+50 to 2+00, a 0.0% grade from 2+00 to 3+00, a 2.0% grade from 3+00 to 4+00, and a 3.1% grade from 4+00 to 4+50. The proposed grade is flanked by visual mitigation berms. A ditch berm is located at the left side of the road, and a proposed diversion ditch is located at the right side. A service road is located at the left side of the road, and a proposed internal ditch is located at the right side. The profile view also shows the existing grade, which is generally flat at an elevation of approximately 4975 feet.

The profile view shows the vertical alignment of the proposed road. The horizontal axis represents stationing from 0+50 to 7+00. The vertical axis represents elevation in feet, ranging from 4965 to 4995. The existing ground is shown as a dashed line, and the proposed road grade is shown as a solid line. Key features include:

- Visual Mitigation Berms:** Two berms are shown, one at station 1+50 and another at station 5+50. The berm at station 1+50 has a 2% slope on the left and a 3% slope on the right. The berm at station 5+50 has a 2% slope on the left and a 3% slope on the right.
- Service Road:** A service road is shown at station 2+00, with a 2% slope.
- Proposed Internal Ditch:** A ditch is shown at station 1+75, with a 2% slope.
- Proposed Grade:** The proposed road grade is shown as a solid line, with a 0.5% slope indicated between stations 3+50 and 4+00.
- Access Road:** An access road is shown at station 6+50, with a 3% slope.
- Proposed Diversion Ditch:** A ditch is shown at station 6+75, with a 3% slope.



<p>TITLE</p> <p>MRG, LP OIL AND GAS CE PAD</p> <p>CITY OF LOVELAND, COLORADO</p> <p>CIVIL CONSTRUCTION PLANS</p> <p>PRODUCTION PHASE SECTION VIEWS</p>	<p>JOB NUMBER</p> <p>65120236-10</p>
	<p>DATE</p> <p>9/1/2022</p>
	<p>SHEET</p> <p>C-201</p>
	<p>7 of 15</p>

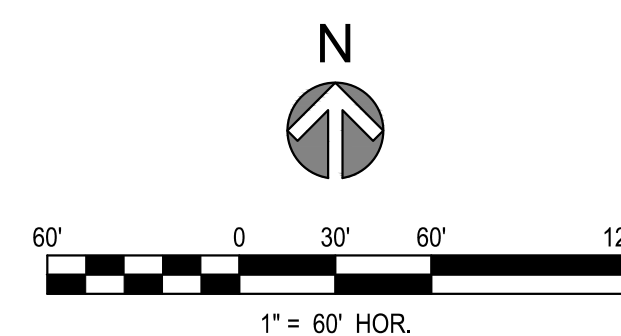


Please show proposed location of primary metering cabinet for a Primary Meter service or proposed transformer(s) location for secondary services. Maximum allowable service entrance size is 4,000A for a 3-PH Secondary service. Refer to the RFES Section 1.6

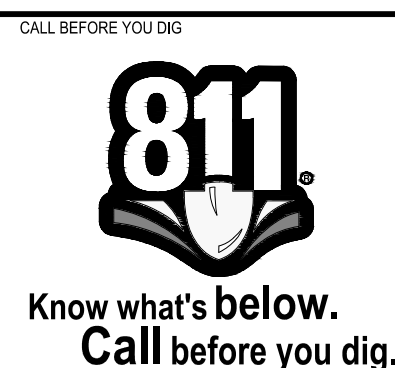
TRANSFORMER
LOCATION AND
ELECTRIC LINE ARE
NOW SHOWN.

place a statement on the plans that the development does not need City of Loveland water or sewer service.

A NOTE HAS BEEN ADDED.



A	ISSUED FOR REVIEW	9/1/2022	TVG	SWC	TS
REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR



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III

MRG, LP OIL AND GAS CE PAD
CITY OF LOVELAND, COLORADO
CIVIL CONSTRUCTION PLANS
UTILITY PLAN

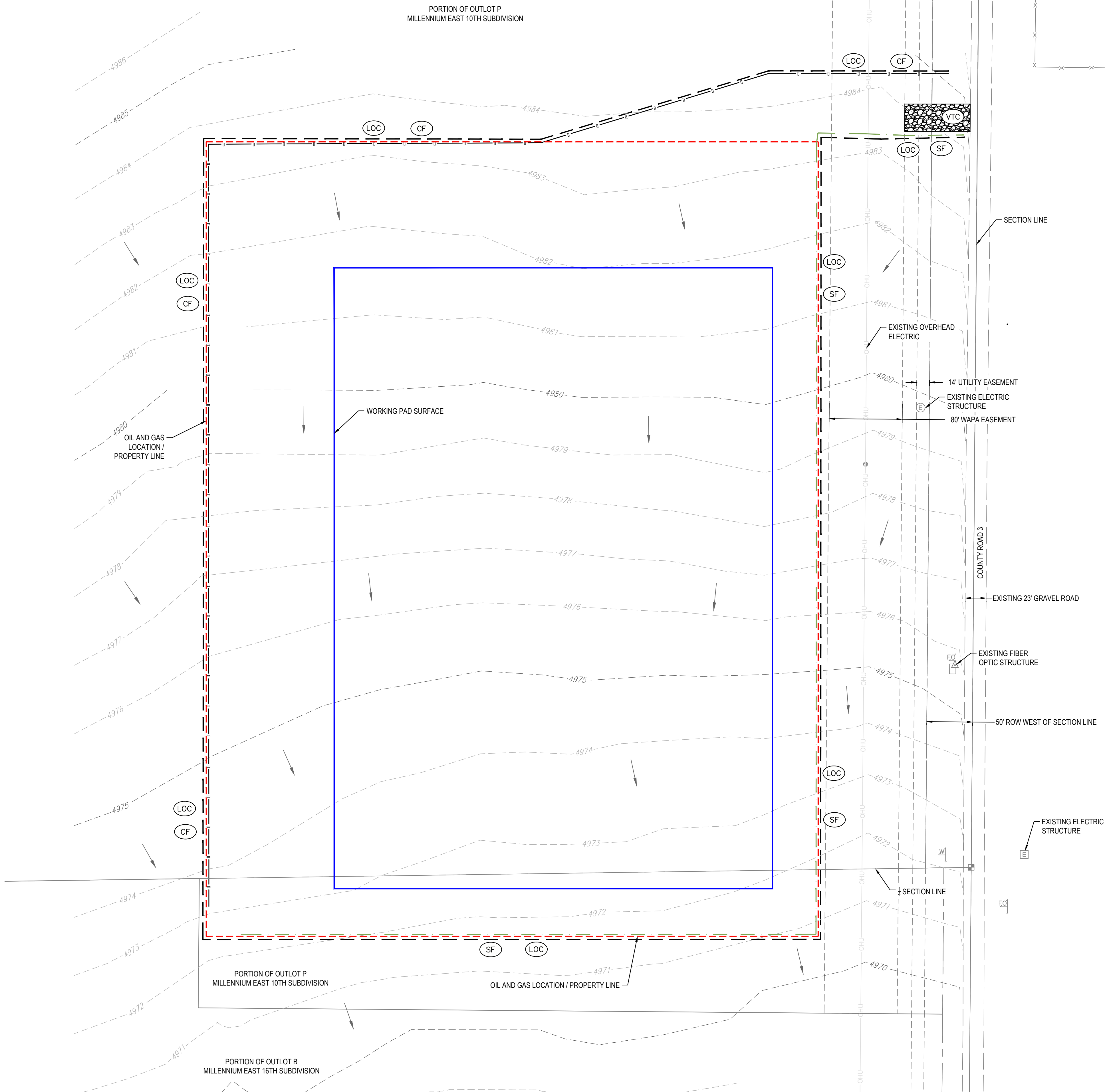
JOB NUMBER
65120236-10

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SHEET
C-300

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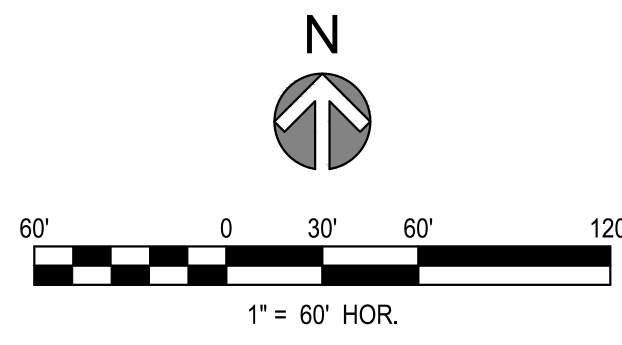


LEGEND

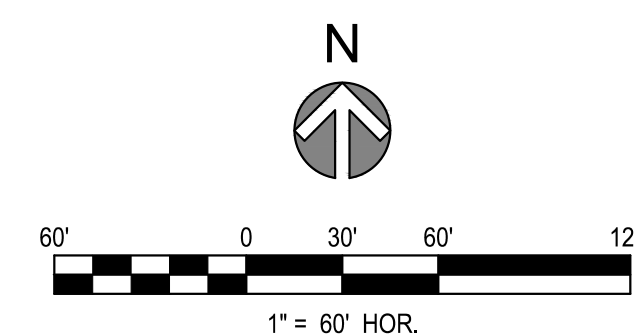
- WORKING PAD SURFACE
- OIL AND GAS LOCATION
- PERIMETER CONTROL (SILT FENCE / SEDIMENT CONTROL LOG)
- VTC VEHICLE TRACKING CONTROL
- CF CONSTRUCTION FENCE
- SF SILT FENCE
- LOC LIMIT OF CONSTRUCTION
- SMC SEEDING, MULCHING AND CRIMPING
- TSB TEMPORARY SEDIMENT BASIN
- SB STILLING BASIN
- LS LEVEL SPREADER
- BRR BURIED SOIL RIPRAP
- SR SURFACE ROUGHENING

On the Sediment and Erosion Control Plans, please show the locations of the silt fence using the line type that is shown in the COL Silt Fence Detail.

SILT FENCE LINE TYPE HAS BEEN UPDATED.



A	ISSUED FOR REVIEW	9/1/2022	TVG	SWC	TS	CALL BEFORE YOU DIG	CITY APPROVAL	PE STAMP	TITLE	JOB NUMBER
									MRG, LP OIL AND GAS CE PAD	65120236-10
						Know what's below. Call before you dig.			CITY OF LOVELAND, COLORADO	DATE 9/1/2022
									CIVIL CONSTRUCTION PLANS	SHEET C-400
									PHASE 1 SEDIMENT AND EROSION CONTROL PLAN	9 of 15
REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR	ACCEPTED BY: CITY ENGINEER (or Designee)	DATE	FOR AND ON BEHALF OF MERRICK & COMPANY		



CALL BEFORE YOU DIG

8

Know what
Call

Know what's **below**.
Call before you dig.

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CITY OF LOVELAND, COLORADO
CIVIL CONSTRUCTION PLANS
PRODUCTION PHASE SEDIMENT AND EROSION CONTROL PLAN

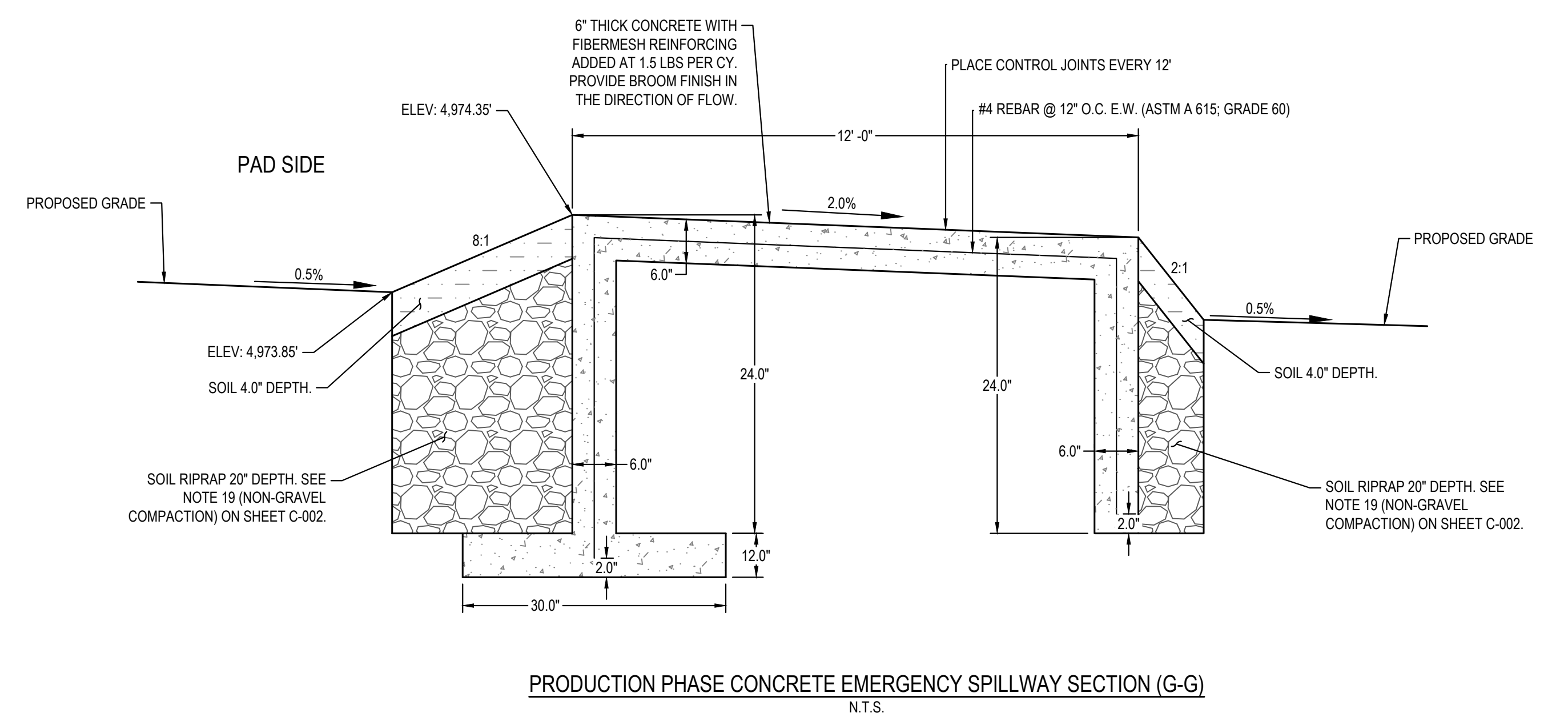
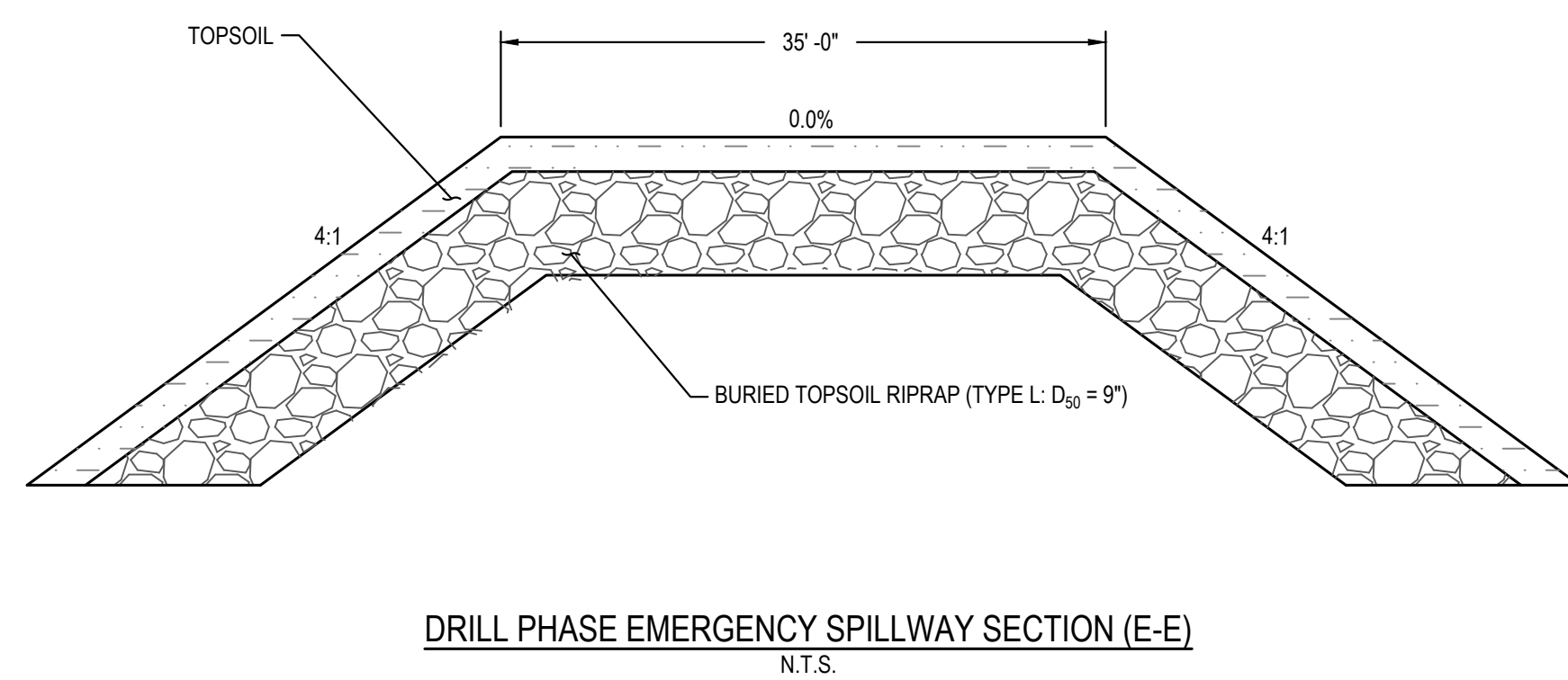
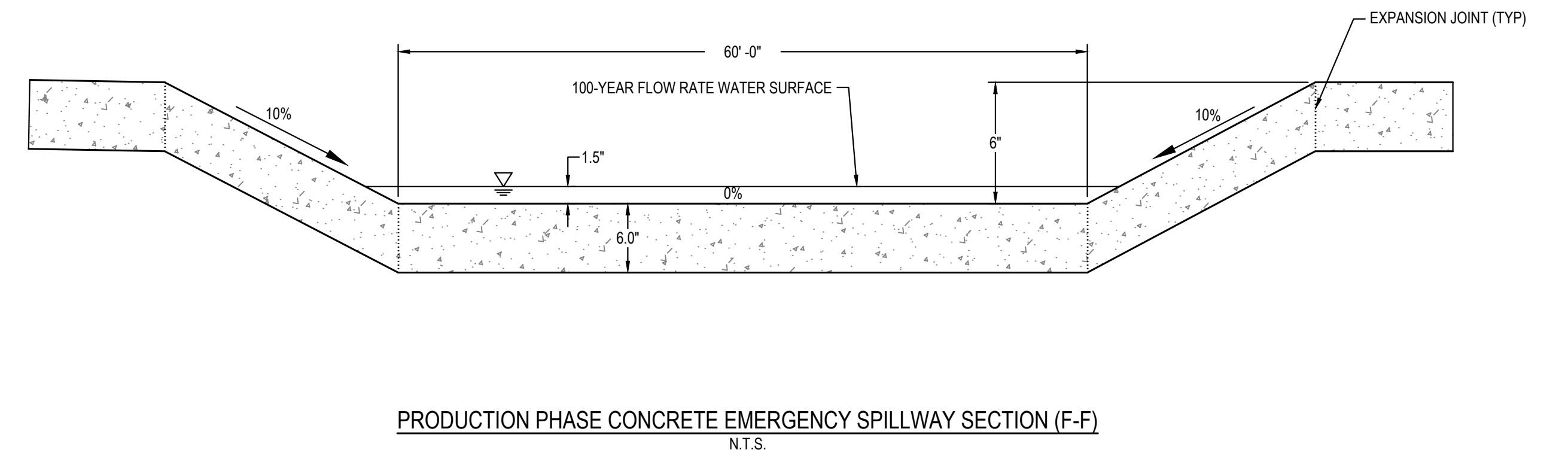
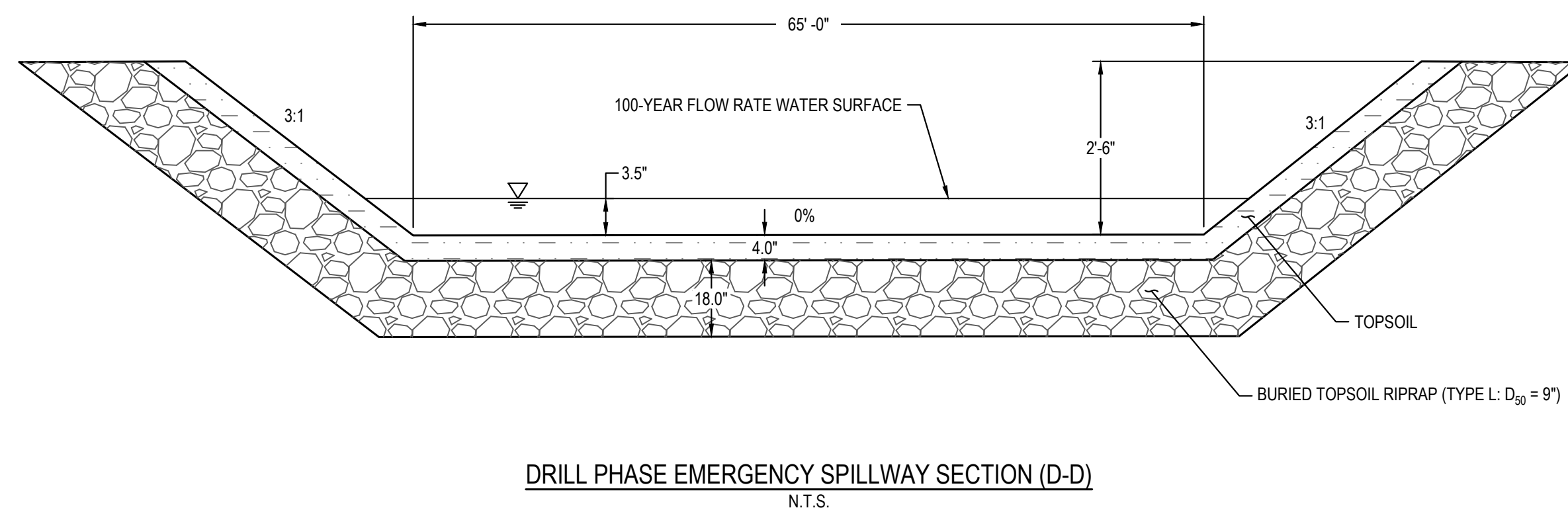
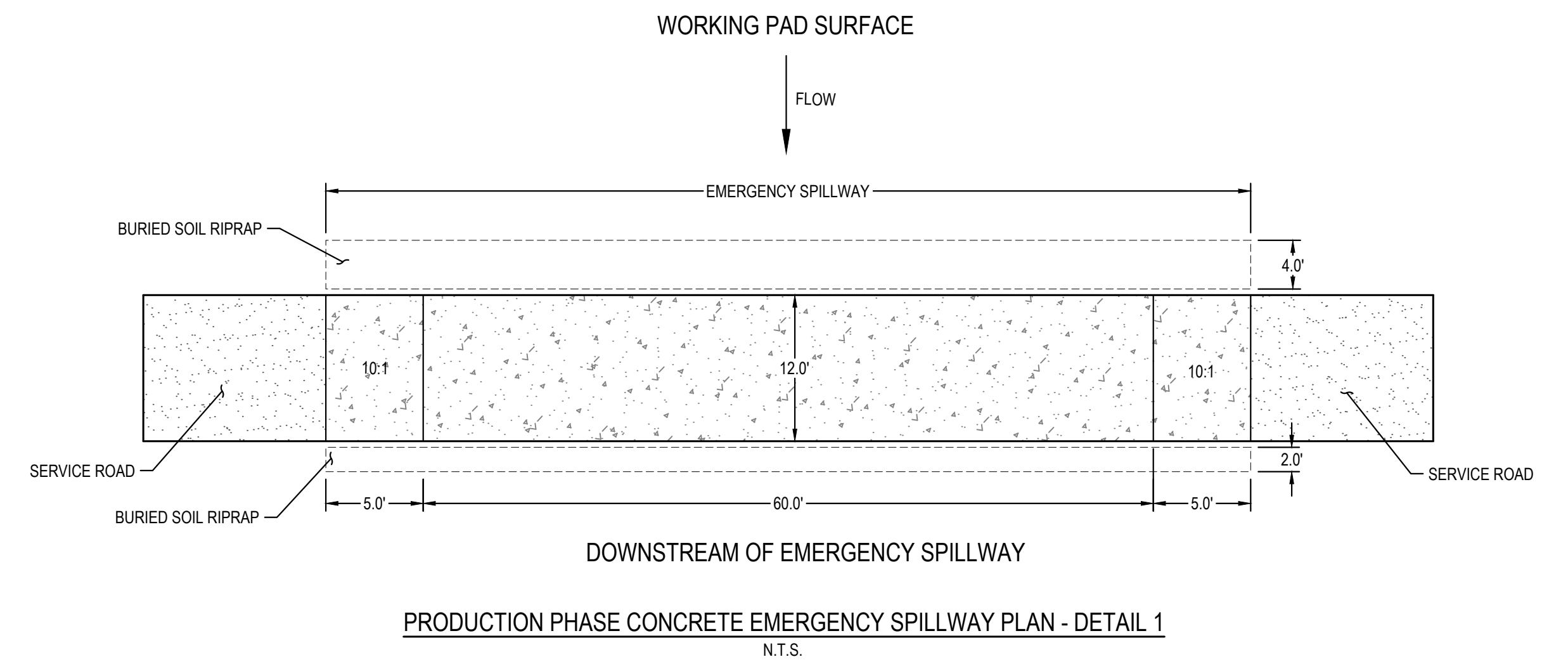
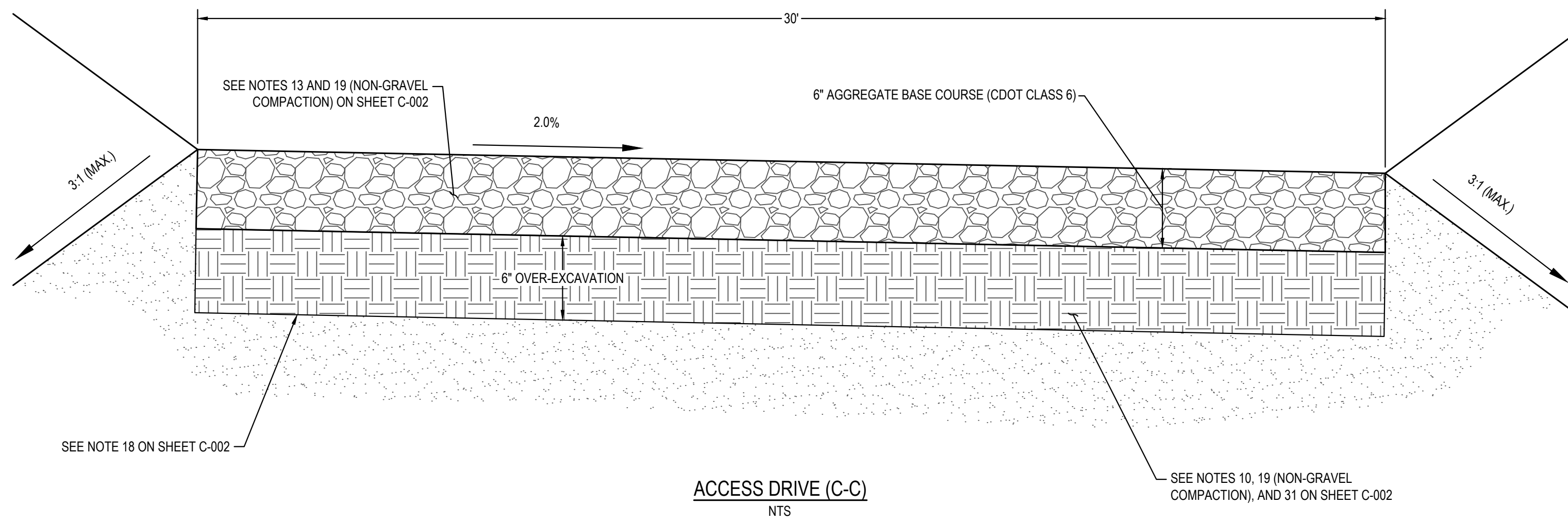
JOB NUMBER
65120236-10

DATE
9/1/2022

SHEET
C-402

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A	ISSUED FOR REVIEW	9/1/2022	TVG	SWC	TS
REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR



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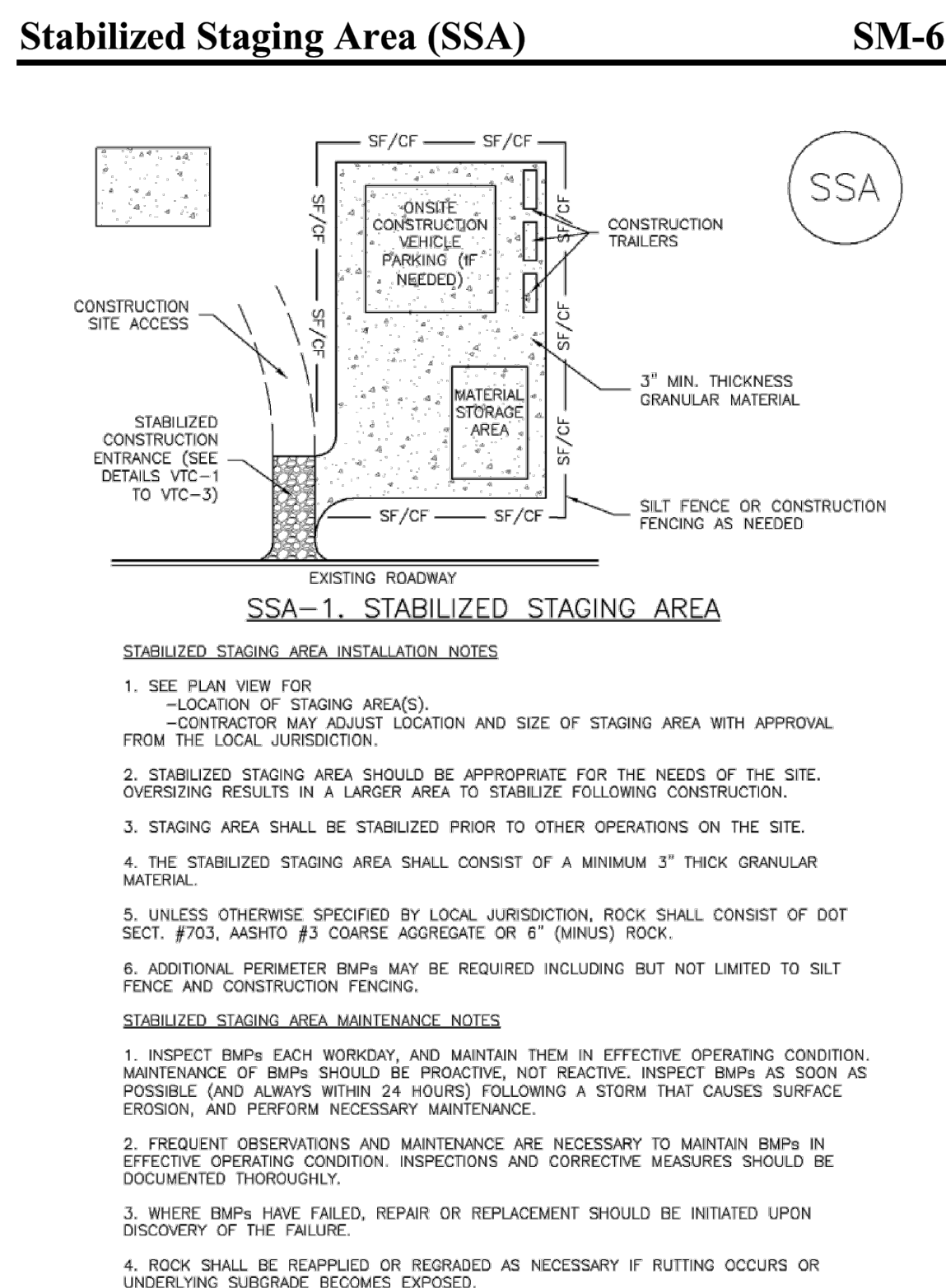
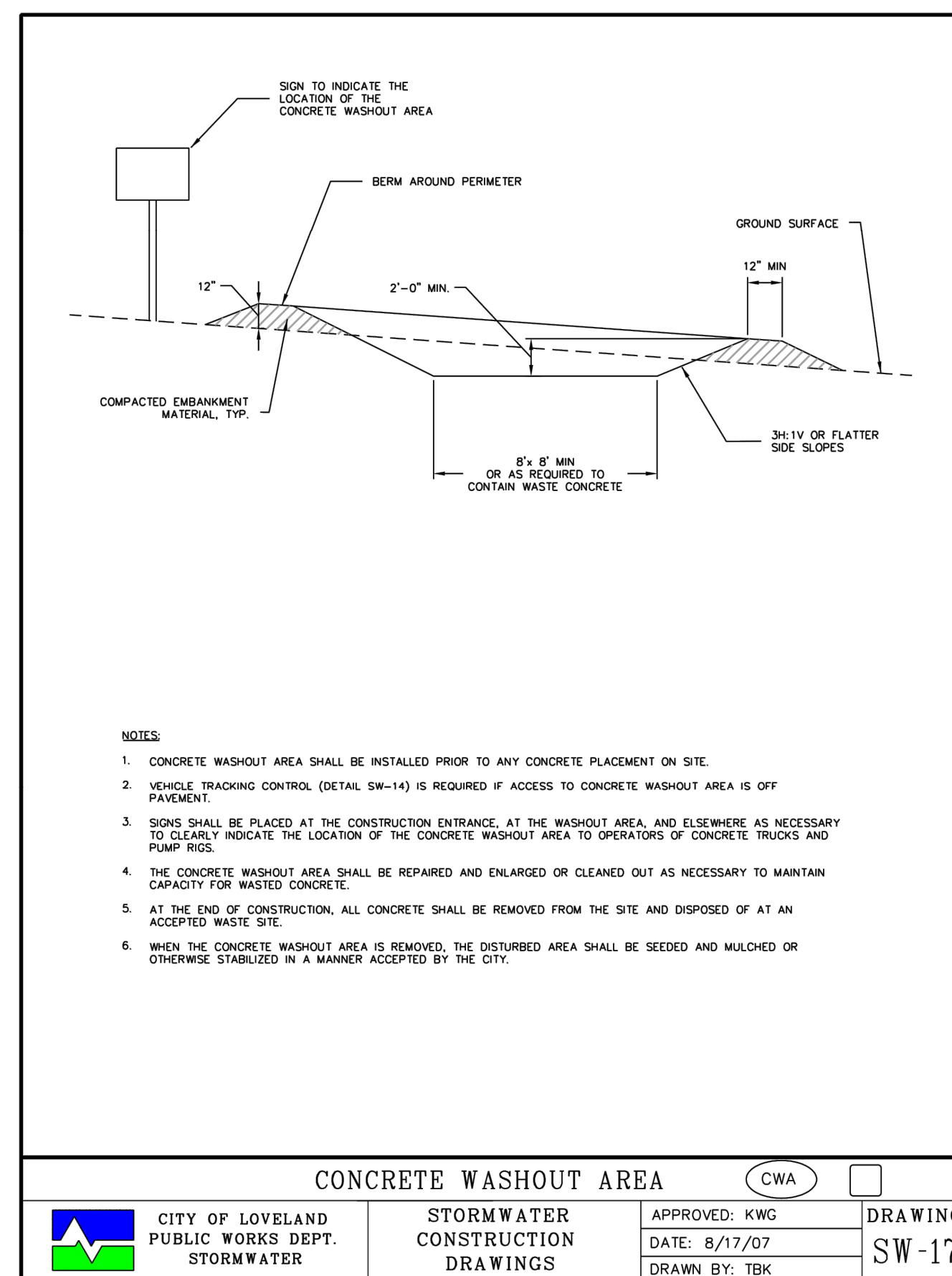
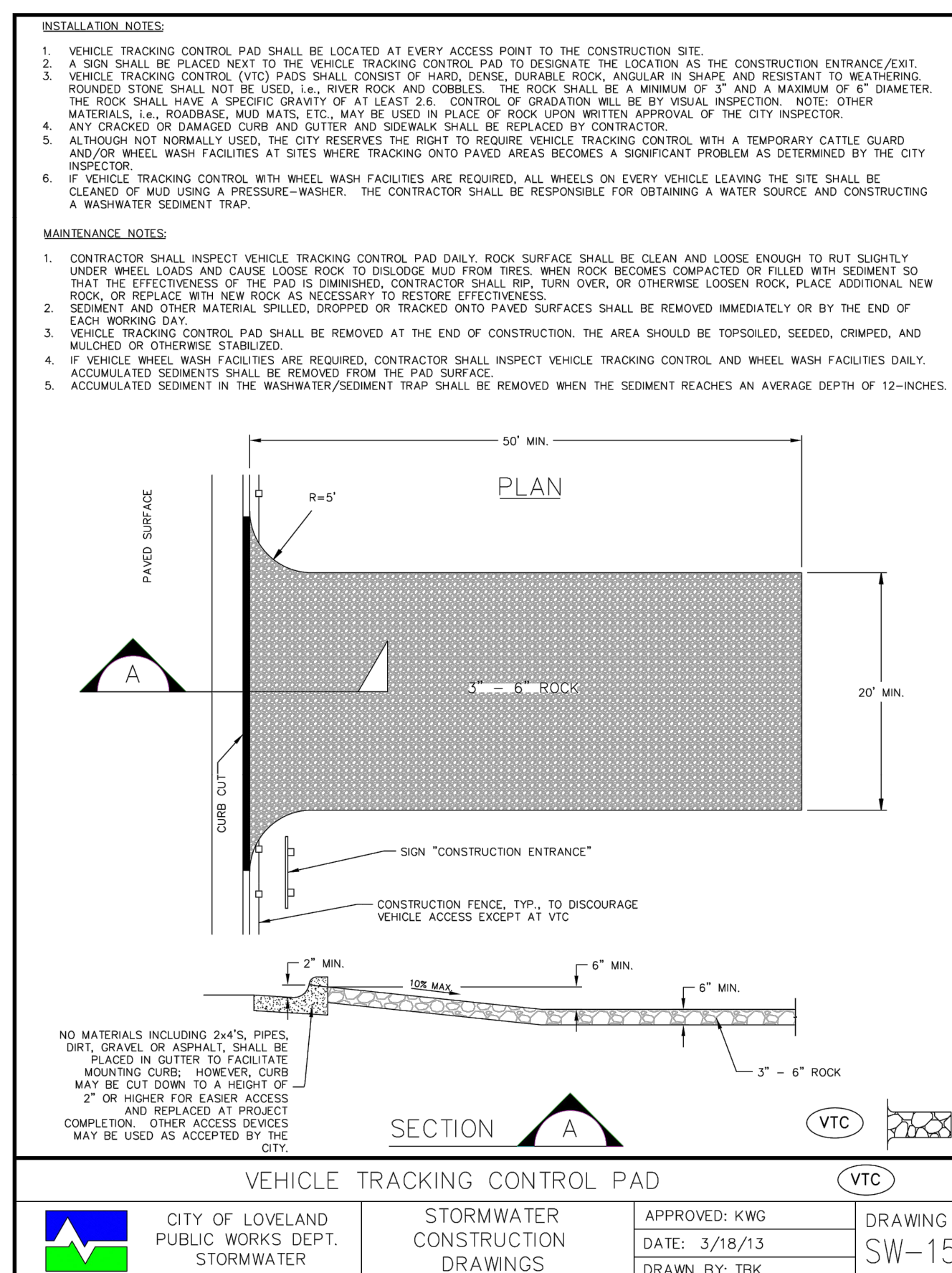
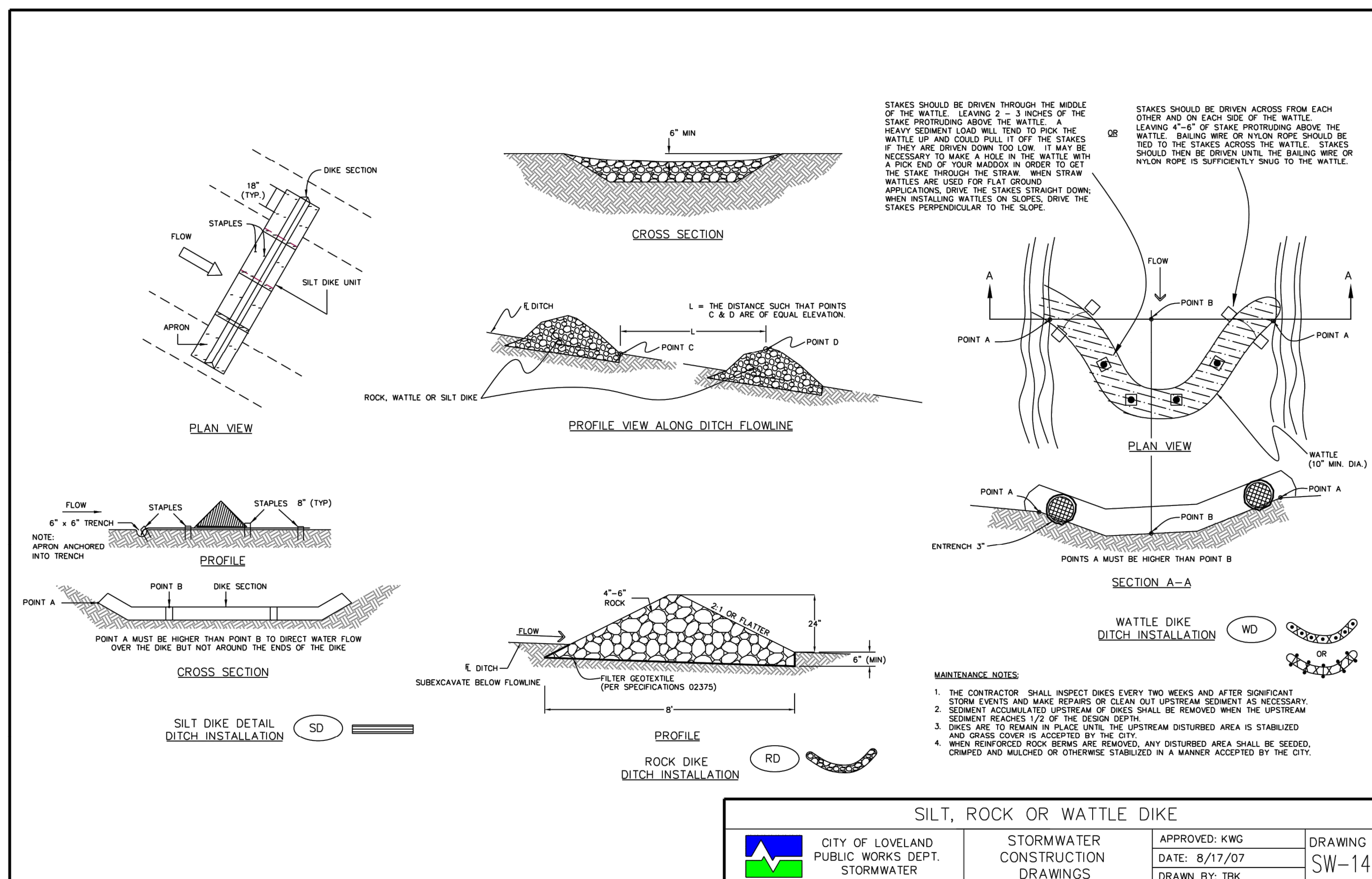
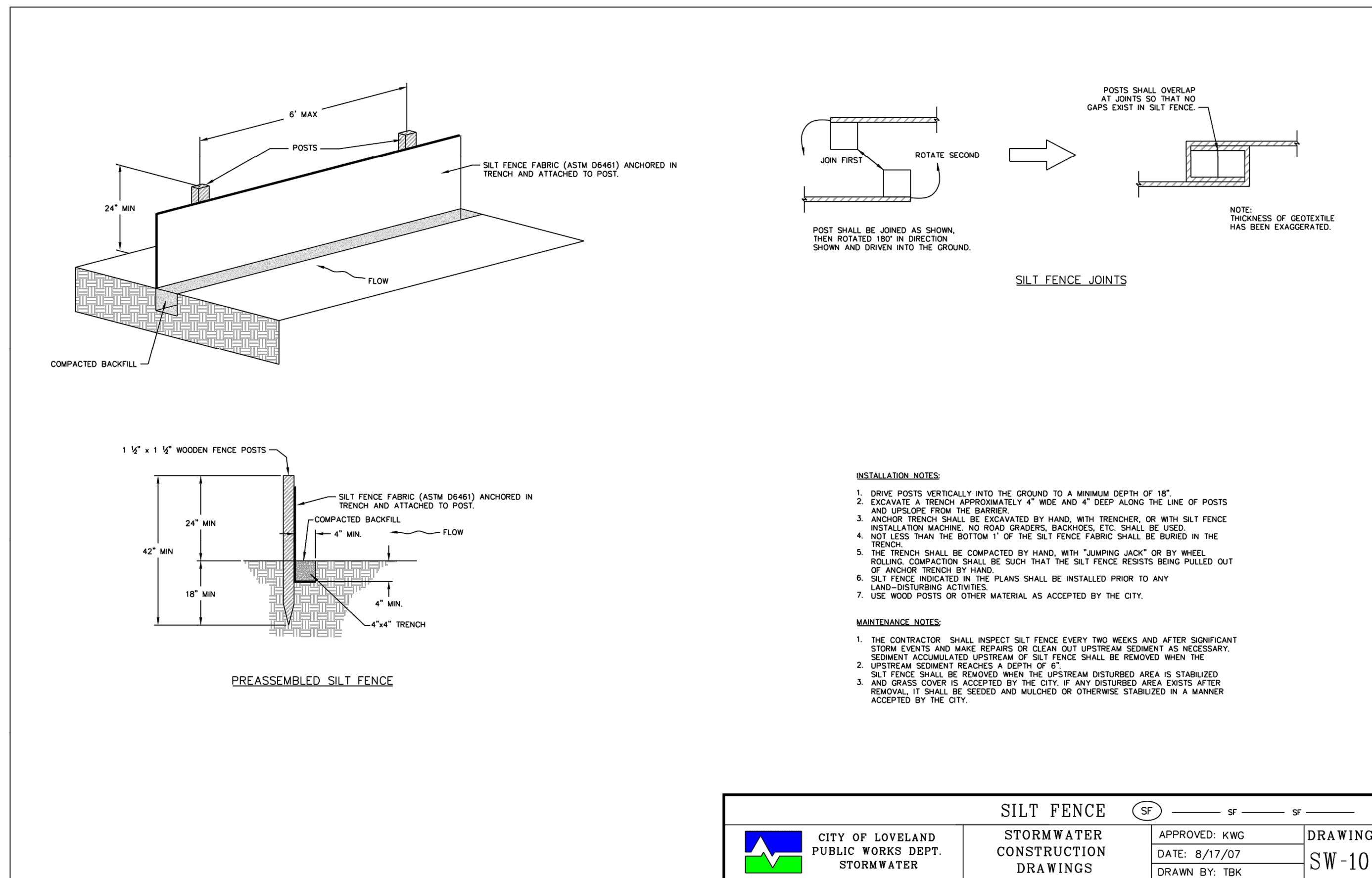


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TITLE	<p>MRG, LP OIL AND GAS CE PAD</p> <p>CITY OF LOVELAND, COLORADO</p> <p>CIVIL CONSTRUCTION PLANS</p> <p>DETAIL SHEET</p>	<p>JOB NUMBER</p> <p>65120236-10</p> <hr/> <p>DATE</p> <p>9/1/2022</p> <hr/> <p>SHEET</p> <p>C-500</p> <hr/> <p>12 of 15</p>
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**SM-6** **Stabilized Staging Area (SSA)**

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

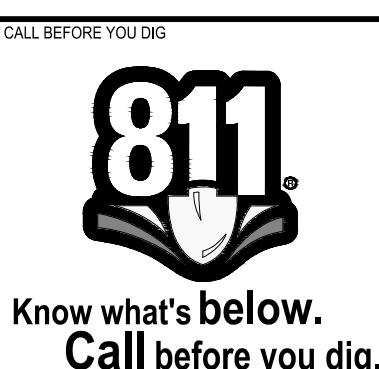
(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

November 2010
Urban Drainage and Flood Control District
SSA-3


Urban Storm Drainage Criteria Manual Volume 3

SSA-4	Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3	November 2010
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CITY OF LOVELAND, COLORADO
CIVIL CONSTRUCTION PLANS
DETAIL SHEET

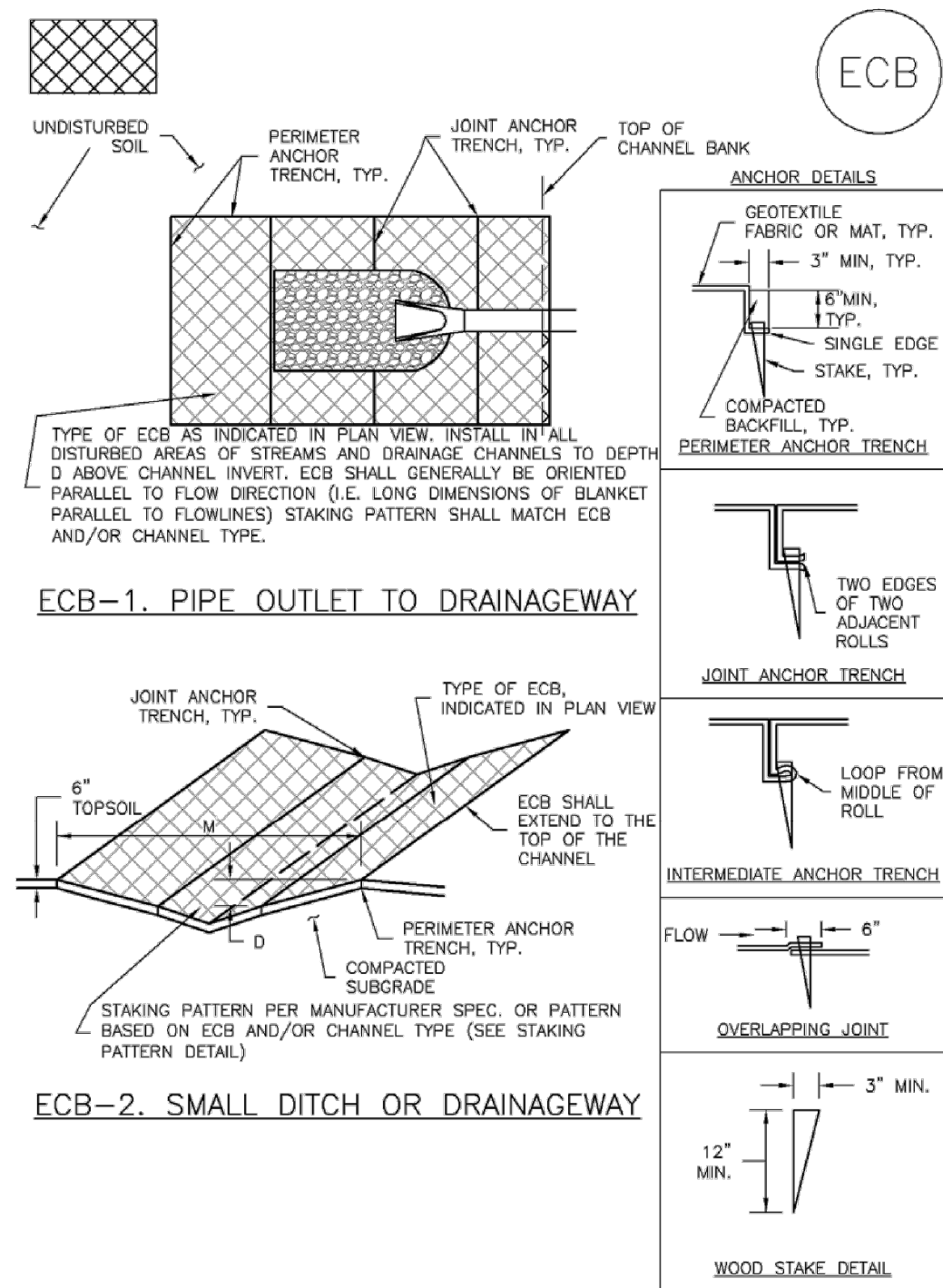
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65120236-10

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EC-6 Rolled Erosion Control Products (RECP)



RECP-6 Urban Drainage and Flood Control District November 2010
 Urban Storm Drainage Criteria Manual Volume 3

EC-1	Surface Roughening (SR)
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SURFACE ROUGHENING INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
-LOCATION(S) OF SURFACE ROUGHENING.

2. SURFACE ROUGHENING SHALL BE PROVIDED PROMPTLY AFTER COMPLETION OF FINISHED GRADING (FOR AREAS NOT RECEIVING TOPSOIL) OR PRIOR TO TOPSOIL PLACEMENT OR ANY FORECASTED RAIN EVENT.

3. AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOIL WILL BE PLACED WITHOUT DELAY IN THE CONSTRUCTION SEQUENCE, SURFACE ROUGHENING IS NOT REQUIRED.

4. DISTURBED SURFACES SHALL BE ROUGHENED USING RIPPING OR TILING EQUIPMENT ON THE CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TRACKS.

5. A FARMING DISK SHALL NOT BE USED FOR SURFACE ROUGHENING.

SURFACE ROUGHENING MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. IF ANY BMP IS OBSERVED TO BE PROGNOSTIC, NOT REACTIVE, INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACE UPON DISCOVERY OF THE FAILURE.

4. VEHICLES AND EQUIPMENT SHALL NOT BE DRIVEN OVER AREAS THAT HAVE BEEN SURFACE ROUGHENED.

5. IN NON-TURF GRASS FINISHED AREAS, SEEDING AND MULCHING SHALL TAKE PLACE DIRECTLY OVER SURFACE ROUGHENED AREAS WITHOUT FIRST SMOOTHING OUT THE SURFACE.

6. IN AREAS NOT SEEDED AND MULCHED AFTER SURFACE ROUGHENING, SURFACES SHALL BE REROUGHENED AS NECESSARY TO MAINTAIN GROOVE DEPTH AND SMOOTH OVER BANK EROSION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. LOCAL OR LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2010 Urban Drainage and Flood Control District CF-3
Urban Storm Drainage Criteria Manual Volume 3

<p>TITLE</p> <p>MRG, LP OIL AND GAS CE PAD</p> <p>CITY OF LOVELAND, COLORADO</p> <p>CIVIL CONSTRUCTION PLANS</p> <p>DETAIL SHEET</p>	<p>JOB NUMBER</p> <p>65120236-10</p>
	<p>DATE</p> <p>9/1/2022</p>
	<p>SHEET</p> <p>C-503</p>
	<p>15 of 15</p>