

From: [Montoya, Anna \(CONTR\)](#)
To: carl.spreng@state.co.us; Moritz.vera@epa.gov
Cc: [Surovchak, Scott](#); [Kaiser, Linda \(CONTR\)](#); [DiSalvo, Rick \(CONTR\)](#); [rc-westminster](#); [Barnes, Shannon \(CONTR\)](#)
Subject: Correspondence to Carl Spreng and Vera Moritz: Final Grading Plan for OLF to Address Localized Reportable Condition, Rocky Flats
Date: Tuesday, December 03, 2013 4:07:33 PM
Attachments: [TO LM00 502 Final Grading Plan for OLF to Address Localized Distress Cracking Reportable Condition-Spreng-12-3-13.pdf](#)
[TO LM00 502 Final Grading Plan for OLF to Address Localized Distress Cracking Reportable Condition-Vera-12-3-13.pdf](#)
[TO LM00 502 Final Grading Plan for OLF to Address Localized Distress Cracking Reportable Condition-attachment-12-3-13.doc.pdf](#)

Attached is your transmittal letter for "Final Grading Plan for OLF to Address Localized Reportable Condition" and attachment. A hard copy has been sent to you via FedEx.

Submitted on behalf of Scott Surovchak.

*Anna Montoya
Administrative Support
S.M. Stoller Corporation
Contractor to the U.S. Department of Energy
Office of Legacy Management
11025 Dover Street, Unit 1000
Westminster, CO 80021
(720) 377-9671
(720) 377-3829 (fax)
anna.montoya@m.doe.gov*



Department of Energy

Washington, DC 20585

December 3, 2013

Ms. Vera Moritz
EPA Rocky Flats Project Coordinator
USEPA Region 8
1595 Wynkoop St., Mail Code: 8EPR-F
Denver, CO 80202-2466

Subject: Final Grading Plan for Original Landfill (OLF) to Address Localized Distress Cracking Reportable Condition

Reference: Rocky Flats Legacy Management Agreement (RFLMA) Contact Records 2013-02 and 2013-03

Dear Ms. Moritz:

This correspondence is to transmit the enclosed final grading plan for approval in accordance with RFLMA Attachment 2, section 6.0, "Reportable Conditions".

Work is scheduled to begin the week of December 9, 2013.

Please contact me at (720) 377-9682 or scott.surovchak@lm.doe.gov if you have any questions. Please send any correspondence to:

U.S. Department of Energy
Office of Legacy Management
11025 Dover Street, Suite 1000
Westminster, CO 80021

Sincerely,

Scott R. Surovchak
LM Site Manager

RLD/abm

Enclosure

cc enclosure (electronic):
R. DiSalvo, Stoller
L. Kaiser, Stoller
File: RFS 030.02
rc-westminster

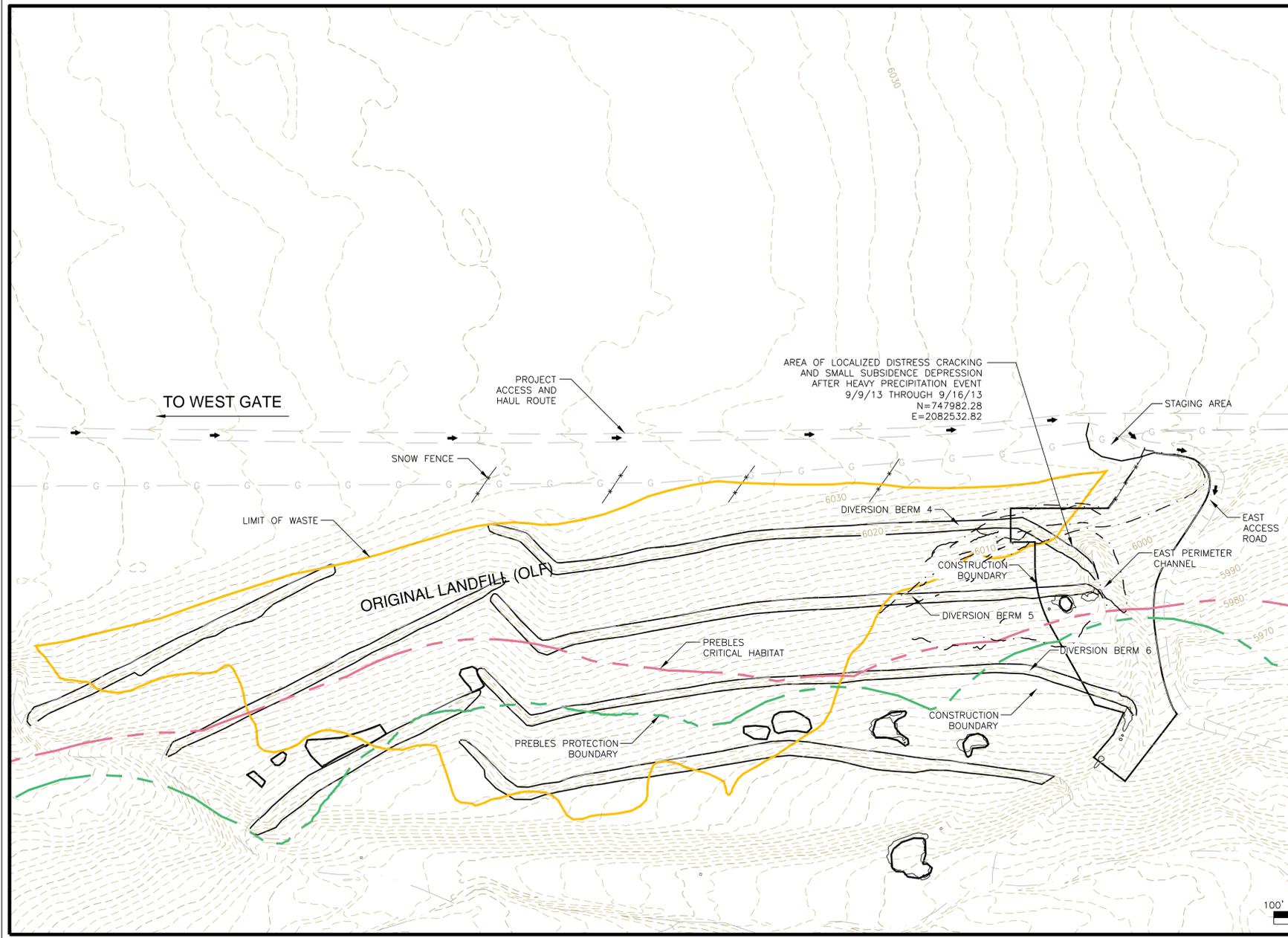


UNITED STATES DEPARTMENT OF ENERGY

OFFICE OF LEGACY MANAGEMENT OLF EAST PERIMETER CHANNEL AND BERM MODIFICATIONS ROCKY FLATS SITE, CO.

INDEX OF DRAWINGS

SHEET	TITLE	DRAWING NO.
1	TITLE SHEET	S10848-T01-ROO-D+
2	PROJECT SITE PLAN	S10849-S01-ROO-D+
3	PLAN, PROFILE AND SECTIONS	S10850-C01-ROO-D+
4	DETAILS	S10851-C02-ROO-D+



PROJECT PLAN

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND THE BASIC WORK ORDER AGREEMENT, STATEMENT OF WORK DOC. NO. S05944 REV. 2, UPDATED NOVEMBER 2013, AND TASK SPECIFIC SCOPE OF WORK, DOCUMENT NO. S10847.

ABBREVIATIONS

APPROX	APPROXIMATE	MAX	MAXIMUM
BOTT	BOTTOM	MIN	MINIMUM
BT	BOTTOM OF TANK	MW	MONITORING WELL
CL	CENTER LINE	N	NORTHING
CLR	CLEAR	NA	NOT APPLICABLE
CONC	CONCRETE	NO	NUMBER
CONT	CONTINUATION	NOM	NOMINAL
CSP	CORRUGATED STEEL PIPE	N.I.C.	NOT IN CONTRACT
CTB	CONCRETE THRUST BLOCK	NPT	NATIONAL PIPE THREAD
DIA OR Ø	DIAMETER	NTS	NOT TO SCALE
DDE	DEPARTMENT OF ENERGY	OC	ON CENTER
EA	EACH	OD	OUTSIDE DIAMETER
E	EASTING	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
E.O.A.	EDGE OF ASPHALT	PIP	PLASTIC IRRIGATION PIPE
ELL	ELBOW	PLC'S	PLACES
EL OR ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
EQUA	EQUATION	R.O.W.	RIGHT-OF-WAY
EXIST	EXISTING	SCH	SCHEDULE
FH	FIRE HYDRANT	SDR	STRENGTH TO DIAMETER RATIO
FLG	FLANGE	SHT	SHEET
GA	GUAGE	STA	STATION
GALV	GALVANIZED	TT	TOP OF TANK
GMP	GALLONS PER MINUTE	THK	THICK
G.I.P.	GALVANIZED IRON PIPE	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE	UC	UNDERGROUND
HORIZ	HORIZONTAL	UC	VERTICAL
IP	IRRIGATION PIPE	VERT	VERTICAL
IRR	IRRIGATION	WV	WATER VALVE
INV	INVERT		

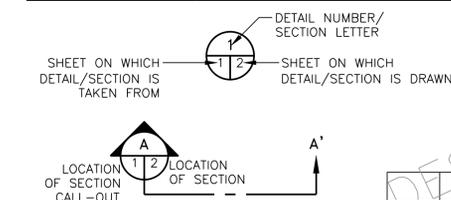
DRAWING LEGEND

	PROPOSED CONTOURS		CRACKS
	EXISTING CONTOURS		SNOW FENCE
	WASTE BOUNDARY		EROSION CONTROL WATLES/STRAW BALES
	CRITICAL HABITAT		PROJECT ACCESS/HAUL ROUTE
	PREBLES PROTECTION AREA		EROSION CONTROL WATLES/STRAW BALES
	TRM AREA (TURF REINFORCEMENT MAT. NAG P550 OR EQUAL)		EROSION CONTROL WATLES/STRAW BALES
	EROSION BLANKET (NAG SC125BN OR EQUAL)		EROSION CONTROL WATLES/STRAW BALES
	SEEPS		EROSION CONTROL WATLES/STRAW BALES
	WETLANDS		EROSION CONTROL WATLES/STRAW BALES
	BURIED-GAS LINES		EROSION CONTROL WATLES/STRAW BALES
	EXISTING UNIMPROVED DIRT ROAD		EROSION CONTROL WATLES/STRAW BALES

SECTION

	COMPACTED FILL
	PREPARED SUBGRADE
	TRM
	SOIL RIPRAP MIX
	EROSION BLANKET

DETAIL SYMBOL

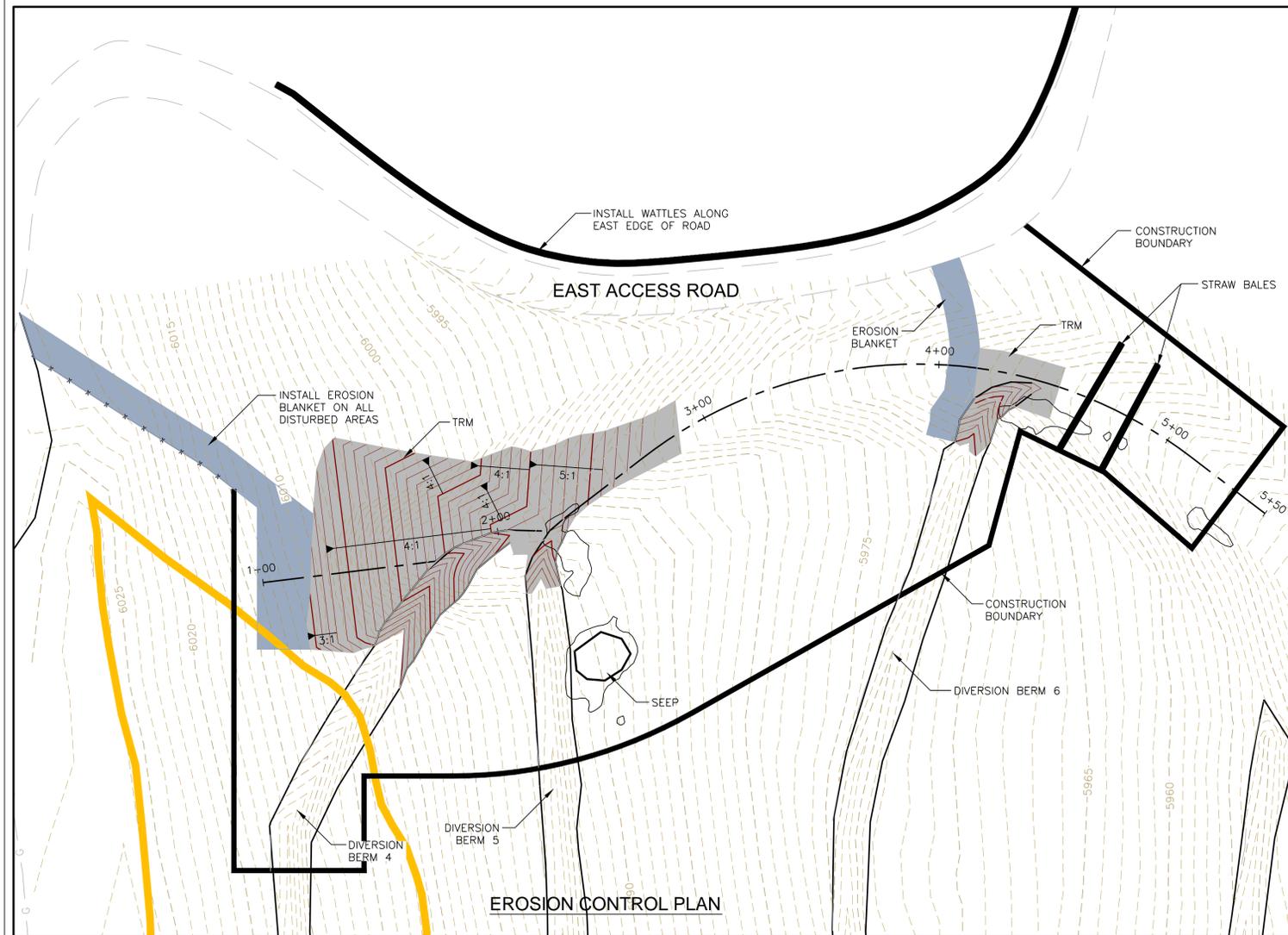
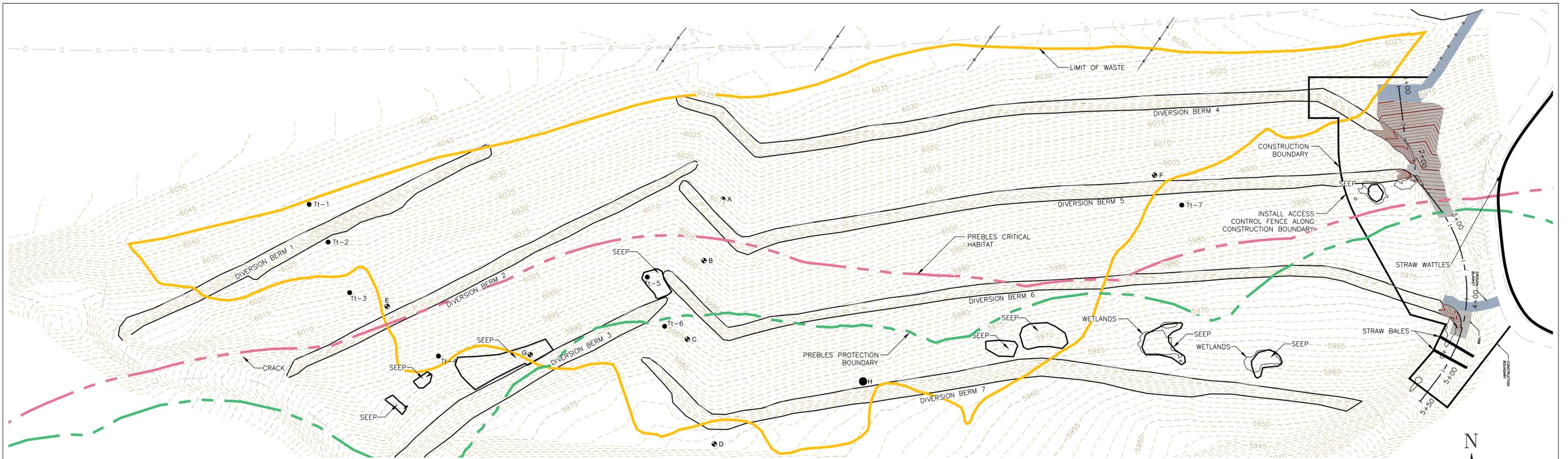


BASIS OF BEARINGS: ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE MODIFIED COORDINATE SYSTEM CENTRAL ZONE 0502 WITH A COMBINED SCALE FACTOR OF 1.000243386. HORIZONTAL DATUM IS NORTH AMERICAN DATUM 1927. VERTICAL DATUM IS NATIONAL GEODETIC VERTICAL DATUM 1929. THE BASIS OF GRID BEARINGS IS THE LINE BETWEEN NGS POINT TT23J BEING A BRONZE BENCHMARK DISC IN AN 8" SQUARE CONCRETE MONUMENT STAMPED TT23J 1936 (GROUND COORDINATES: NORTHING=763176.84, EASTING=2075459.12) AND NGS POINT JEFFCO RESET BEING A SURFACE DISC BRASS CAP IN 12" ROUND CONCRETE STAMPED JEFFCO 1977 1980 (GROUND COORDINATES: NORTHING=757491.88, EASTING=2113632.77). THAT BEARING IS S81°31'46"E.

GENERAL PROJECT NOTES:

PLOTTING OR PRINTING OF THESE DRAWINGS TO ANY SHEET SIZE OTHER THAN 24x36 OR BY USING FORMATS OTHER THAN AutoCAD PLOT FILES WILL RESULT IN INCORRECT SCALES AND HATCH PATTERN DISTORTIONS. THE USER IS CAUTIONED AND SHOULD EITHER OBTAIN A HARD COPY PRINT-OUT FROM THE CONTRACTOR OR APPROPRIATELY SCALE ALL MEASUREMENTS FROM THE BAR-SCALES PROVIDED.

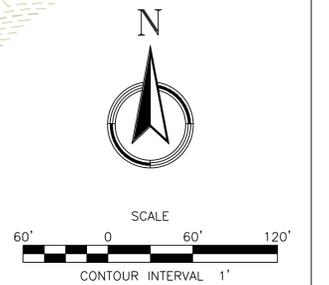
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<p>U.S. DEPARTMENT OF ENERGY GRAND JUNCTION, COLORADO</p> <p>S.M. Staller Corporation Work Performed by Under DOE Contract No. DE-AM01-07LM00060</p>						
<p>PROJECT LOCATION ROCKY FLATS SITE JEFFERSON COUNTY, CO.</p>			<p>APPROVALS</p> <p>DRAWN BY: DANIEL MONTEZ 11/22/13</p> <p>CHECKED BY: TOM CHAPEL 11/22/13</p> <p>PROJECT ENGINEER: STEPHEN PITTON 11/22/13</p> <p>ENGINEERING MANAGER: MELVIN MADRIL 11/22/13</p> <p>PROJECT LEAD: RICK DISALVO 11/22/13</p> <p>DATE PLOTTED: 11/22/13</p> <p>BY: LINDA KAISER 11/22/13</p>			
<p>REFERENCE: </p>						<p>TITLE SHEET</p>
<p>PROJECT NO. LTS-111-0056-07-001H</p>						<p>SHEET 1 OF 4</p>
<p>DRAWING NO. S10848-T01-ROO-D+</p>						



ORIGINAL LANDFILL SITE PLAN

ESTIMATED EROSION CONTROL MATERIAL	
TRM	9056 FT ²
EROSION BLANKET	3669 FT ²
WATTLES	401 LF
STRAW BALES	100 LF
ACCESS BARRIER	1422 LF

NOTE: ACTUAL QUANTITIES MAY VARY IN THE FIELD. CONTRACTOR WILL PROVIDE THE TRM, EROSION BLANKET, WATTLES, AND STRAW BALES.

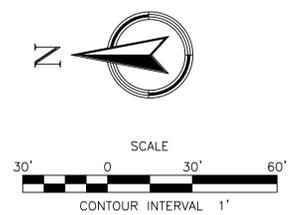
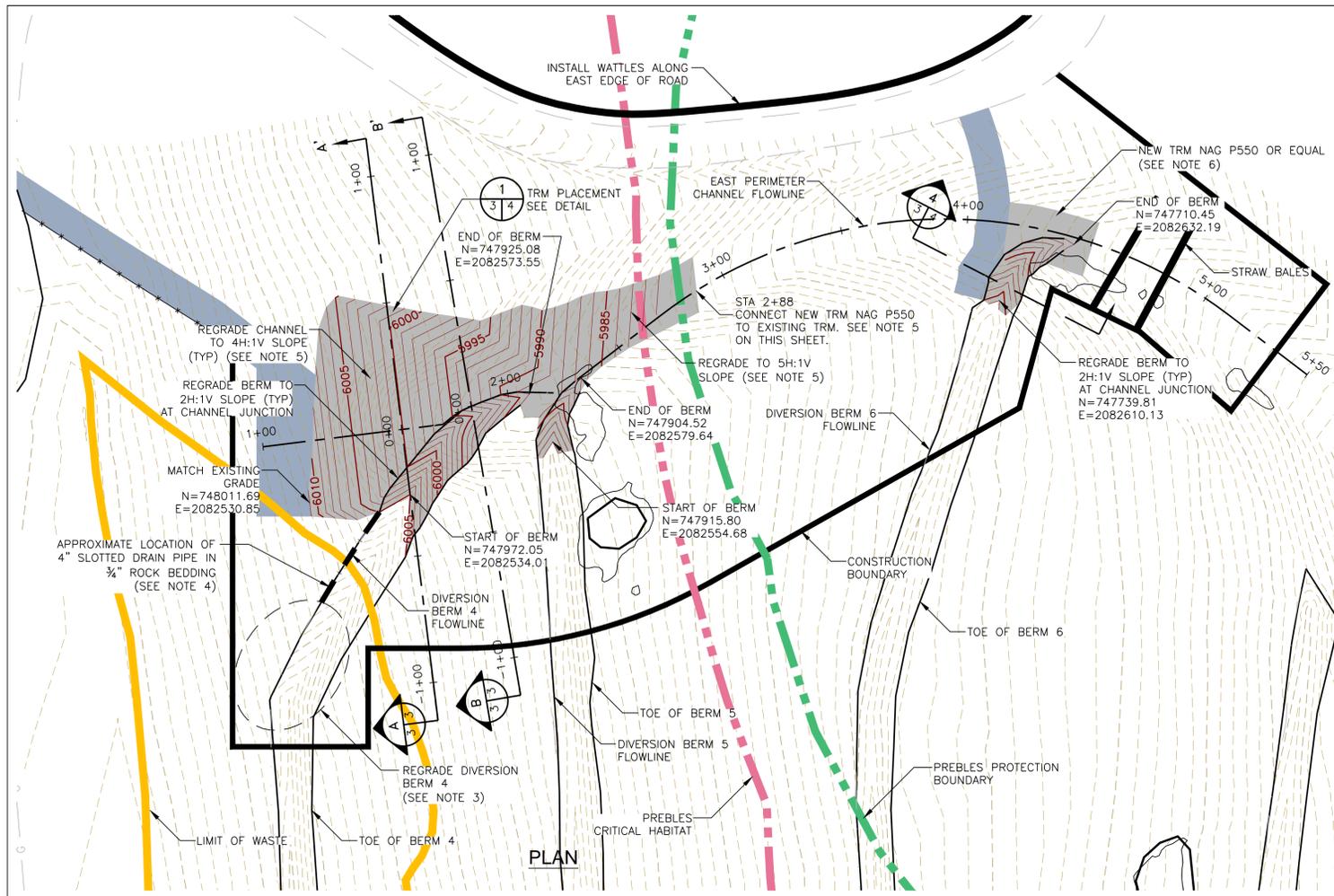


NOTES:

1. TOPOGRAPHY BASED ON 6/28/2013 SITE SURVEY.
2. WASTE BOUNDARY FROM .DWG FILE FROM ORIGINAL CONSTRUCTION DRAWINGS (FIGURE 3-1) BY EARTH TECH.
3. TRM NAG P550 TO BE REMOVED PRIOR TO EARTHWORK AND REPLACED FOLLOWING GRADING ACCEPTANCE BY THE CONTRACTOR.
4. SUBCONTRACTOR SHALL SCARIFY THE TOP 4"-6" OF THE FINISH GRADE AND DISC OR MIX IN COMPOST AT A RATE OF 50 TONS COMPOST/ACRE. USING CONTRACTOR PROVIDED SEED MIX. SUBCONTRACTOR SHALL BROADCAST SEED EVENLY THROUGHOUT ALL DISTURBED AREAS AT A RATE OF APPROXIMATELY 100 SEEDS/SQUARE FOOT AND HARROW OR RAKE SEED TO COVER SLIGHTLY (APPROXIMATELY 1/4 INCH DEPTH). SUBCONTRACTOR SHALL INSTALL FINAL EROSION CONTROLS (PROVIDED BY CONTRACTOR) PER CONTRACTOR DIRECTION.

FINAL DESIGN

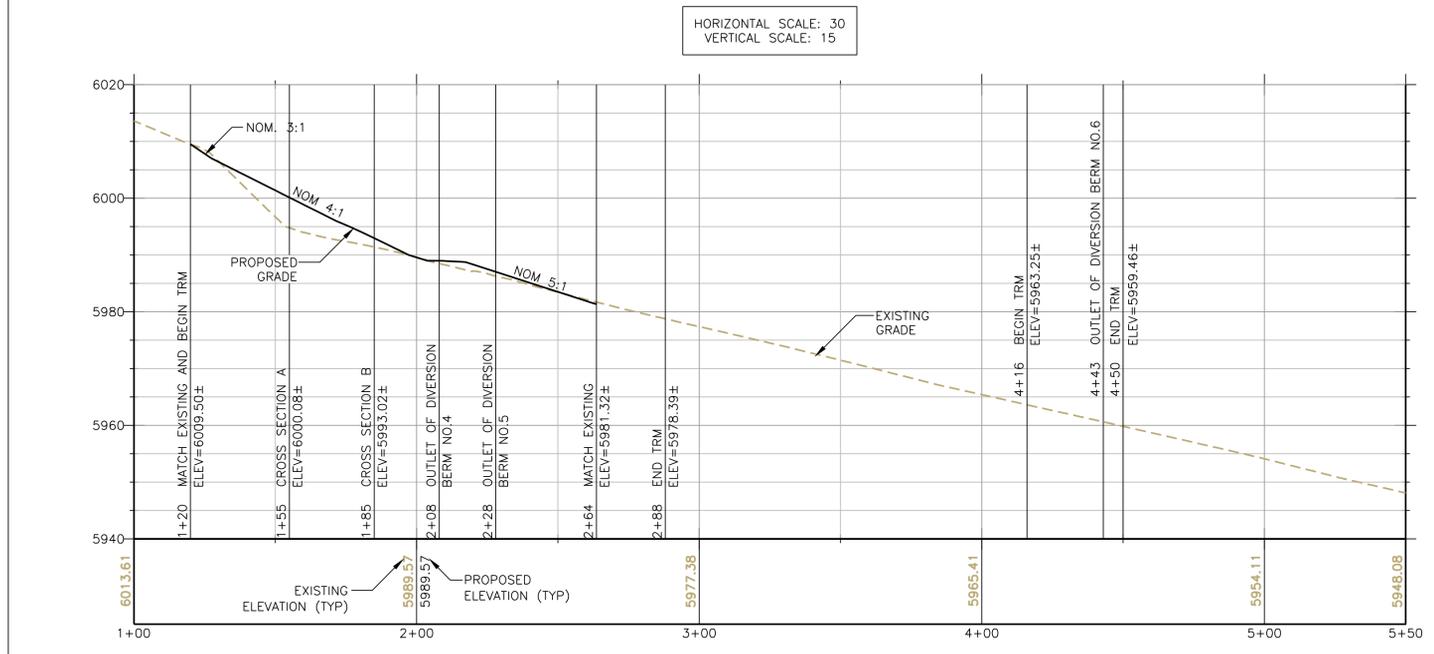
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PROJECT LOCATION ROCKY FLATS SITE JEFFERSON COUNTY, CO.						APPROVALS DRAWN BY: DANIEL MONTEZ 11/22/13 ENGINEER: TOM CHAPEL 11/22/13 PROJECT ENGINEER: STEPHEN PITTON 11/22/13 ENGINEERING MANAGER: MELVIN MADRIL 11/22/13 PROJECT LEAD: RICK DISALVO 11/22/13 "BYE" (UNAPPROVED): LINDA KAISER 11/22/13
PROJECT TITLE ORIGINAL LANDFILL PROJECT SITE PLAN						PROJECT NO. LTS-111-0056-07-001H SH1 OF 4 DRAWING NO. S10849-S01-R00-D+



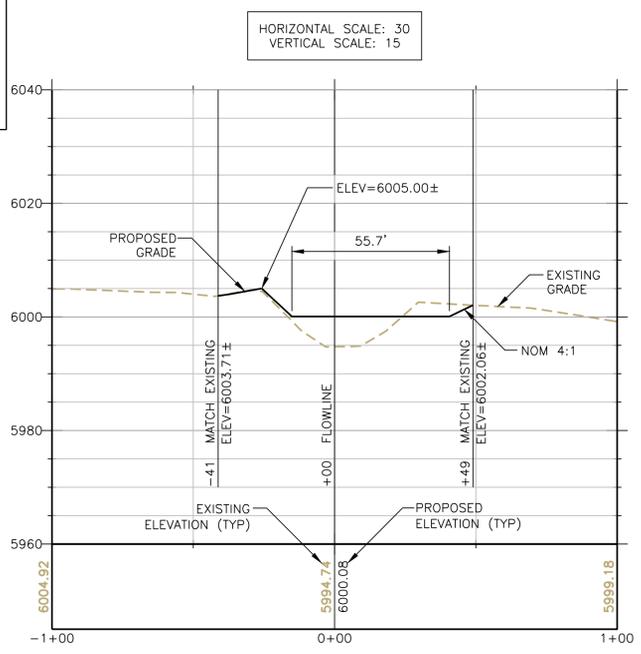
EARTHWORK QUANTITIES		
CUT	FILL	NET
87 CU. YDS.	308 CU. YDS	221 CU. YDS. <FILL>

NOTE: QUANTITIES ARE IN-PLACE AND DO NOT REFLECT SHRINK OR SWELL.

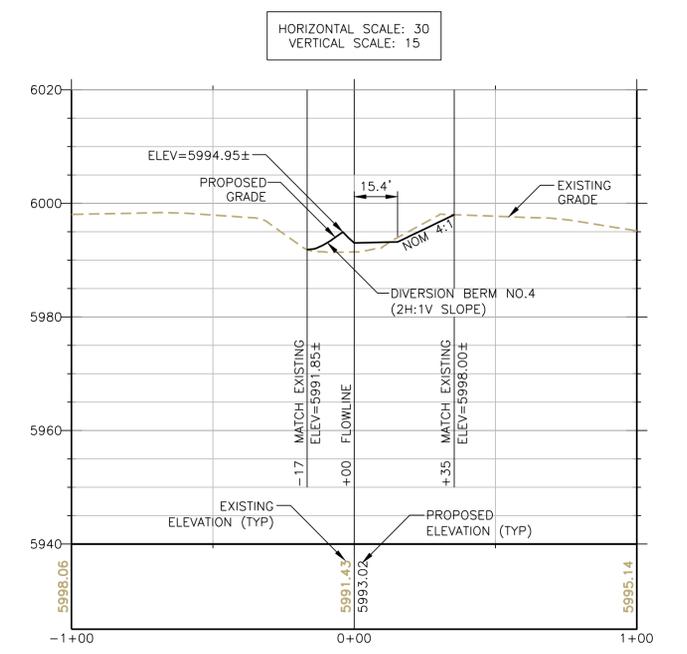
- NOTES:
1. TOPOGRAPHY BASED ON 6/28/2013 SITE SURVEY.
 2. WASTE BOUNDARY FROM .DWG FILE FROM ORIGINAL CONSTRUCTION DRAWINGS (FIGURE 3-1) BY EARTH TECH.
 3. VISIBLY LOW CREST OF BERM 4 IN THIS AREA TO BE RE-GRADED TO MATCH UPSTREAM AND DOWNSTREAM CREST ELEVATIONS BY PLACING IMPORTED SOIL FILL AS NEEDED ON THE CREST OF THE BERM AND COMPACTING TO THE APPROVAL OF THE CONTRACTOR. DISTURBED AREAS TO BE PROTECTED USING EROSION BLANKET PLACED PER MANUFACTURER'S RECOMMENDATIONS.
 4. 4" SLOTTED DRAIN PIPE IN 3/4" ROCK BEDDING INSTALLED 10/3/13 TO PROVIDE POSITIVE DRAINAGE TO PREVENT PONDING IN SMALL SUBSIDENCE DEPRESSION CREATED BY LOCALIZED DISTRESS CRACKING AFTER HEAVY PRECIPITATION EVEN 9/9/13 THROUGH 9/16/13
 5. REGRADE HEADWALL AND SURROUNDING AREA TO SLOPES FLATTER THAN 3H:1V.
 6. TRM NAG P550 TO BE REMOVED PRIOR TO EARTHWORK AND REPLACED FOLLOWING GRADING ACCEPTANCE BY THE CONTRACTOR.
 7. THE HYDRAULIC CAPACITY OF THE EAST PERIMETER CHANNEL EXCEEDS THE COMBINED RUNOFF FOR THE 1,000 YEAR STORM EVENT OF DIVERSION BERMS 4,5,6, AND 7.



EAST PERIMETER CHANNEL FLOWLINE PROFILE



CROSS SECTION A

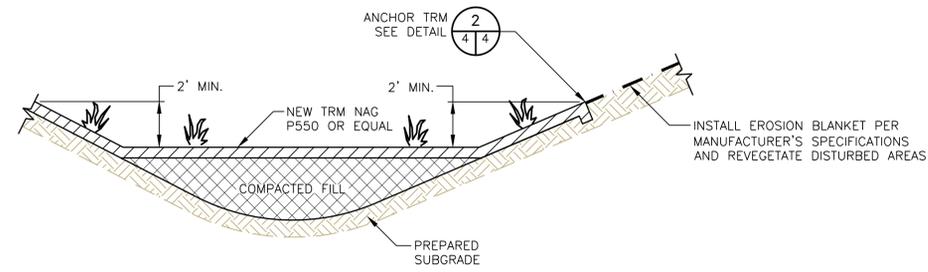


CROSS SECTION B

FINAL DESIGN

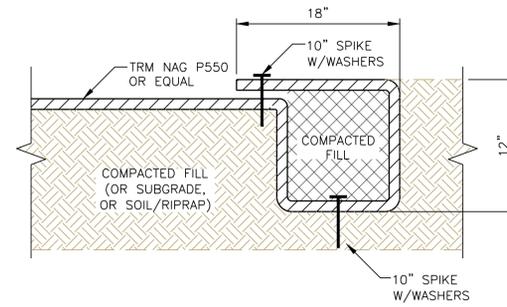
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ORIGINAL LANDFILL						**PLAN, PROFILE AND SECTIONS**
PROJECT NO. **LTS-111-0056-07-001H**						SHEET **3** OF **4**
DRAWING NO. **S10850-C01-ROO-D+**						



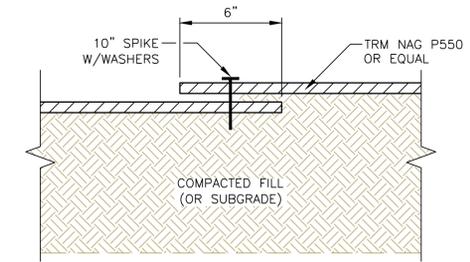
NOTE: SEE DETAIL 3/4/4 FOR OVERLAPPING DETAILS.

EAST PERIMETER CHANNEL TRM PLACEMENT (TYP) 1/3/4
N.T.S.



NOTE: FOLLOW MANUFACTURER'S SPECIFICATIONS FOR STAPLE/SPIKE FREQUENCY.

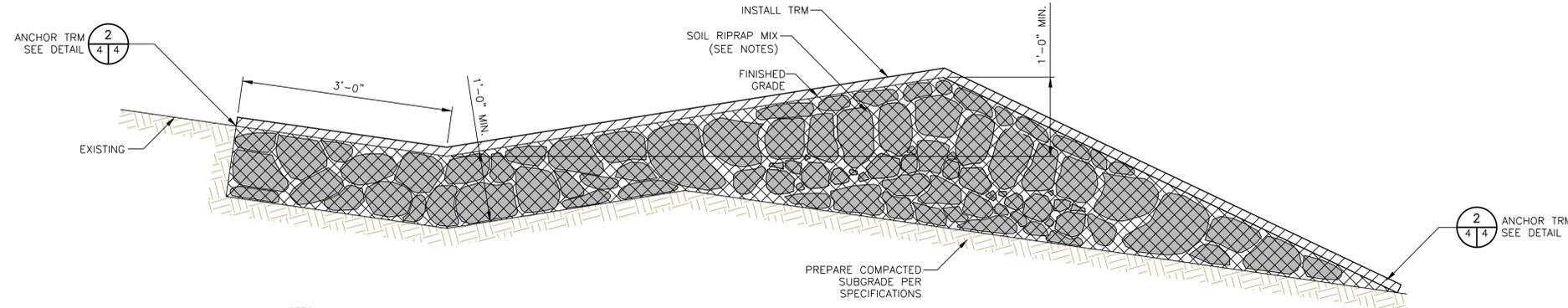
TRM ANCHOR DETAIL (TYP) 2/4/4
N.T.S.



NOTE: INCREASE OVERLAP TO 12" AND DOUBLE THE SPIKES FOR NEW TRM INTO EXISTING TRM.

FOLLOW MANUFACTURER'S SPECIFICATIONS FOR STAPLE/SPIKE FREQUENCY.

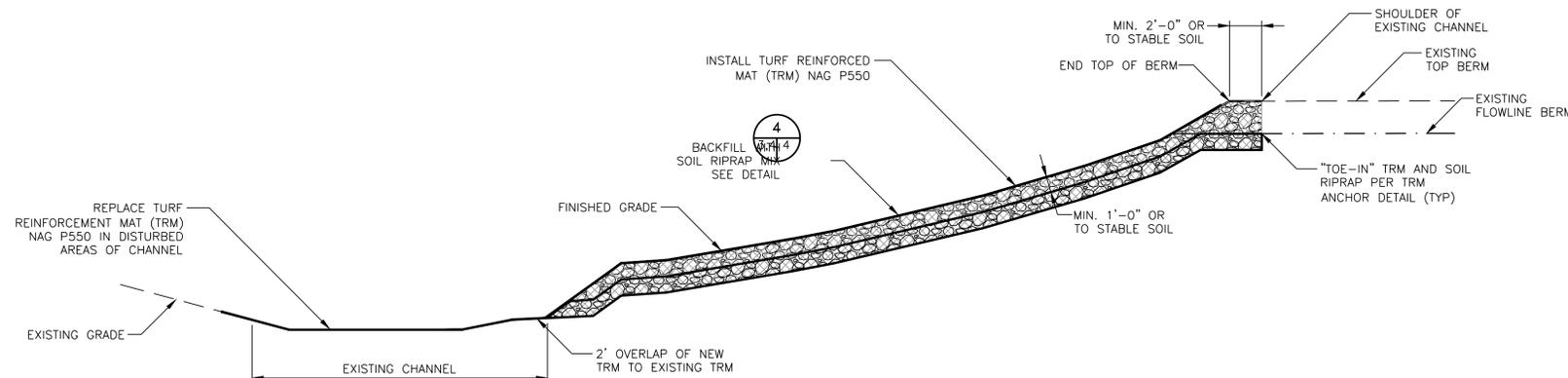
TRM OVERLAPPING DETAIL (TYP) 3/4/4
N.T.S.



NOTES:

- MIX UNIFORMLY 65% RIPRAP (D50=6") BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.
- PLACE AND COMPACT SOIL RIPRAP MIX AS WRITTEN IN SPECIFICATIONS. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN GRADE.

DIVERSION BERM TIE-IN TO EAST PERIMETER CHANNEL CROSS SECTION (TYP) 4/3/4
N.T.S.



PROFILE OF DIVERSION BERMS (4,5,6) TIE-IN TO EAST PERIMETER CHANNEL AS OBSERVED FROM UPSTREAM VIEWPOINT (TYP)
N.T.S.

FINAL DESIGN

REVISION NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT #/E	APPROVAL
U.S. DEPARTMENT OF ENERGY		Work Performed by S.M. Stoller Corporation Under DOE Contract No. DE-AM01-07LM00060				
GRAND JUNCTION, COLORADO		ORIGINAL LANDFILL				
PROJECT LOCATION: ROCKY FLATS SITE		APPROVALS:				
JEFFERSON COUNTY, CO.		DRAWN BY: DANIEL MONTEZ 11/22/13 ENGINEER: TOM CHAPEL 11/22/13 PROJECT ENGINEER: STEPHEN PITTON 11/22/13 ENGINEERING MANAGER: MELVIN MADRIL 11/22/13 PROJECT LEAD: RICK DISALVO 11/22/13 SPC MANAGER/ENGINEER: LINDA KAISER 11/22/13				
REFERENCE:		PROJECT NO: LTS-111-0056-07-001H				
		DRAWING NO: S10851-C02-R00-D+				
		SHEET 4 OF 4				