

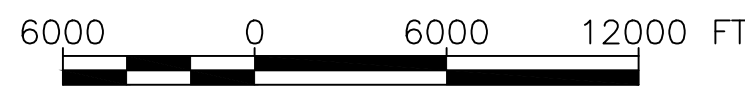
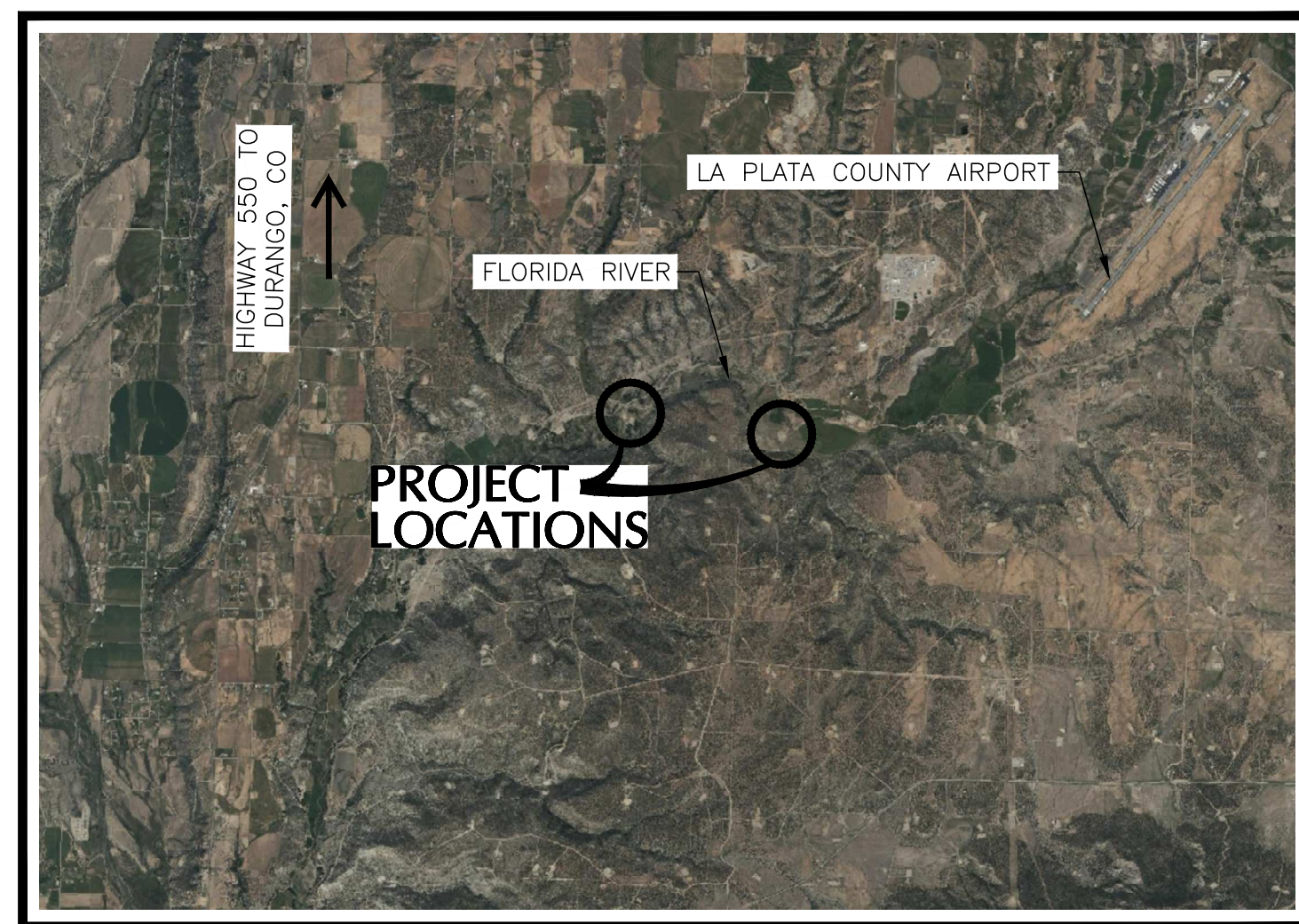
# INTERIM STORMWATER MANAGEMENT PLAN (SWMP) FOR WELL LOCATION 325172 & 312051 LOGOS RESOURCES, LLC & SIMCOE, LLC

## LA PLATA COUNTY, COLORADO

### GENERAL NOTES

- PROJECT RESTORATION LIMITS SHOWN ON THESE PLANS ARE APPROXIMATE. BEST MANAGEMENT PRACTICES (BMPs) ARE SHOWN AS GRAPHICAL SYMBOLS AND DO NOT REPRESENT ACTUAL SIZE AND SHAPE OF BMP WHEN APPLICABLE.
- INTERIM SWMP PROJECT RESTORATION LIMITS FOR LOCATION ID 325172 (LOGOS RESOURCES, LLC WELL API #067-05515) ARE SHOWN ON SHEET C3 – INTERIM SWMP FOR WELL LOCATION ID 325172.
- INTERIM SWMP PROJECT RESTORATION LIMITS FOR LOCATION ID 312051 (LOGOS RESOURCES, LLC WELL API #067-08138 & SIMCOE, LLC WELL API #067-08731) ARE SHOWN ON SHEET C4 – INTERIM SWMP FOR WELL LOCATION ID 312051.
- WORK WILL CONSIST OF INSTALLING BMPs AS SHOWN ON THESE PLANS TO PROVIDE INTERIM STABILIZATION OF THE WELL PADS. WORK ASSOCIATED WITH INTERIM SWMP FOR WELL LOCATION ID 325172 INCLUDES THE INSTALLATION OF A LOW-WATER CROSSING, REINSTALLATION OF AN EXISTING STEEL CONTAINMENT RING AND ASSOCIATED APPURTENANCES AROUND PRODUCED WATER STORAGE TANK, DRAINAGE SWALE, AND REVEGETATION. WORK ASSOCIATED WITH INTERIM SWMP FOR WELL LOCATION ID 312051 INCLUDES RIPRAP INSTALLATION ALONG THE PERIMETER OF THE PAD, DRAINAGE SWALES, OVERFLOW CHANNEL IMPROVEMENTS, AND REVEGETATION.
- LOCATION OF STAGING AREAS SHALL BE COORDINATED WITH LOGOS RESOURCES AND THEIR SUBCONTRACTORS. LOCATION MAY BE MODIFIED IN THE FIELD IF WARRANTED AND REDLINED ON THESE PLANS.
- ANY SOIL STOCKPILED ON-SITE SHALL BE IN ACCORDANCE WITH DETAIL MM-2 STOCKPILE MANAGEMENT FROM VOLUME 3, CHAPTER 7 OF THE MILE HIGH FLOOD DISTRICT (MHFD) URBAN STORM DRAINAGE CRITERIA MANUAL (USDCM). CONTRACTOR SHALL REDLINE THE STOCKPILE LOCATION ON THESE PLANS IF USED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR:
  - OBTAINING AND ADHERING TO, AT HIS OWN EXPENSE, ALL PERMITS OR LICENSES WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK, INITIATE PERMIT APPLICATIONS THROUGH THE COUNTY OF LA PLATA.
  - IN CASE OF AN EMERGENCY AFTER WORKING HOURS, CONTACT THE OWNER'S REPRESENTATIVE.
  - PROPER NOTIFICATION OF ALL NECESSARY AGENCIES PRIOR TO THE COMMENCEMENT OF WORK.
  - PROJECT SAFETY
  - JOB SITE CONDITIONS AT ALL TIMES.
  - TRAFFIC CONTROL.
  - PROPER NOTIFICATION OF ALL NECESSARY AGENCIES FOR REQUIRED INSPECTIONS.
  - CONSTRUCTION DEWATERING
- THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO THE START OF WORK. ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND OWNER'S REPRESENTATIVE PRIOR TO THE BEGINNING OF ANY WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION (INCLUDING DEPTHS) OF ANY EXISTING UTILITIES. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE WATER, STORMWATER, AND GROUNDWATER THROUGHOUT THE DURATION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE EROSION AND SEDIMENT CONTROL PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE WORK ASSOCIATED WITH ANY PORTION OF THIS PROJECT AND OBTAINING A CONSTRUCTION DEWATERING PERMIT IF APPLICABLE. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED, AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION ON ABUTTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. ANY UNSTABLE AREAS, AS A RESULT OF GROUNDWATER, ENCOUNTERED DURING THE INSTALLATION OF THE PROPOSED IMPROVEMENTS SHALL BE STABILIZED AS AGREED UPON BY THE CONTRACTOR, AND THE DESIGN ENGINEER AT THE TIME OF THEIR OCCURRENCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL SURFACES AND RELATED STRUCTURES TO ORIGINAL CONDITIONS (OR BETTER) AND GRADES UNLESS DESIGNATED OTHERWISE ON THE DRAWINGS.
- THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT ALL TIMES ONE (1) SIGNED COPY OF THE PLANS.
- CONTACT THE ENGINEER PRIOR TO PLAN MODIFICATION WHERE DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS EXIST.
- SURVEY DATA PROVIDED TO WRIGHT WATER ENGINEERS ON FEBRUARY 8, 2022 BY IKAV ENERGY, INC. ORIGINAL SURVEY COMPLETED IN JUNE 2016.

### PROJECT LOCATION



MAP SOURCE: © 2022 MICROSOFT CORPORATION © 2022 MAXAR  
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### CONTACTS

WELL OWNER (API #067-05515 & API #067-08138):  
LOGOS RESOURCES, LLC  
2010 AFTON PLACE  
FARMINGTON, NM 87401  
CONTACT: MARCIA BRUEGGENJOHANN  
505-787-2220 (OFFICE)

WELL OWNER (API #067-08731):  
IKAV ENERGY, INC.  
1199 MAIN AVE.  
SUITE #101  
DURANGO, CO 81301  
CONTACT: JULIE BEST  
970-394-0131 (OFFICE)

ENGINEER:  
WRIGHT WATER ENGINEERS, INC.  
1666 N. MAIN AVE.  
SUITE C  
DURANGO, CO 81301  
CONTACT: HAYES LENHART, P.E.  
970-259-7411 (OFFICE)

### SHEET INDEX

SHEET #	SHEET TITLE
C1	COVER SHEET
C2	OVERALL PLAN
C3	INTERIM SWMP FOR WELL LOCATION ID 325172
C4	INTERIM SWMP FOR WELL LOCATION ID 312051
C5	SWMP DETAILS
C6	SWMP DETAILS
C7	LOW WATER CROSSING DETAIL

### SWMP LEGEND

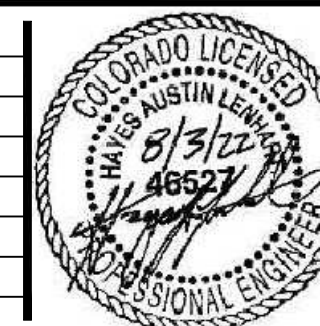
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→			STORMWATER FLOW DIRECTION ARROW
---		---	LIMITS OF INTERIM RECLAMATION
---		---	STABILIZED STAGING AREA
---		---	CHECK DAM
---		---	EROSION CONTROL BLANKET
---		---	SEED AND MULCH
---		---	SEDIMENT CONTROL LOG
---		---	EXISTING STORM PIPE
---		---	DITCH CENTERLINE
---		---	INFILTRATION AREA
---		---	RIPRAP

CALL COLORADO  
**811**  
OR CALL UTILITY NOTIFICATION  
CENTER OF COLORADO  
**1-800-922-1987**  
CALL 3-BUSINESS DAYS IN ADVANCE  
BEFORE YOU DIG, GRADE, OR EXCAVATE  
FOR THE MARKING OF UNDERGROUND  
MEMBER UTILITIES



WRIGHT WATER ENGINEERS, INC.  
1666 N. MAIN AVE. SUITE C  
DURANGO, CO 81301  
(970)259-7411 FAX(970)259-8758

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INTERIM SWMP FOR WELL LOCATION ID 325172 & 312051  
LOGOS RESOURCES, LLC & SIMCOE, LLC

COVER SHEET

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**191-027.030**

REVISION NO.  
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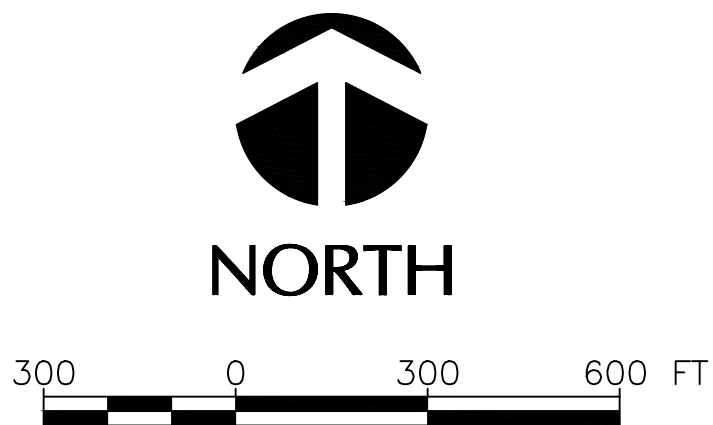
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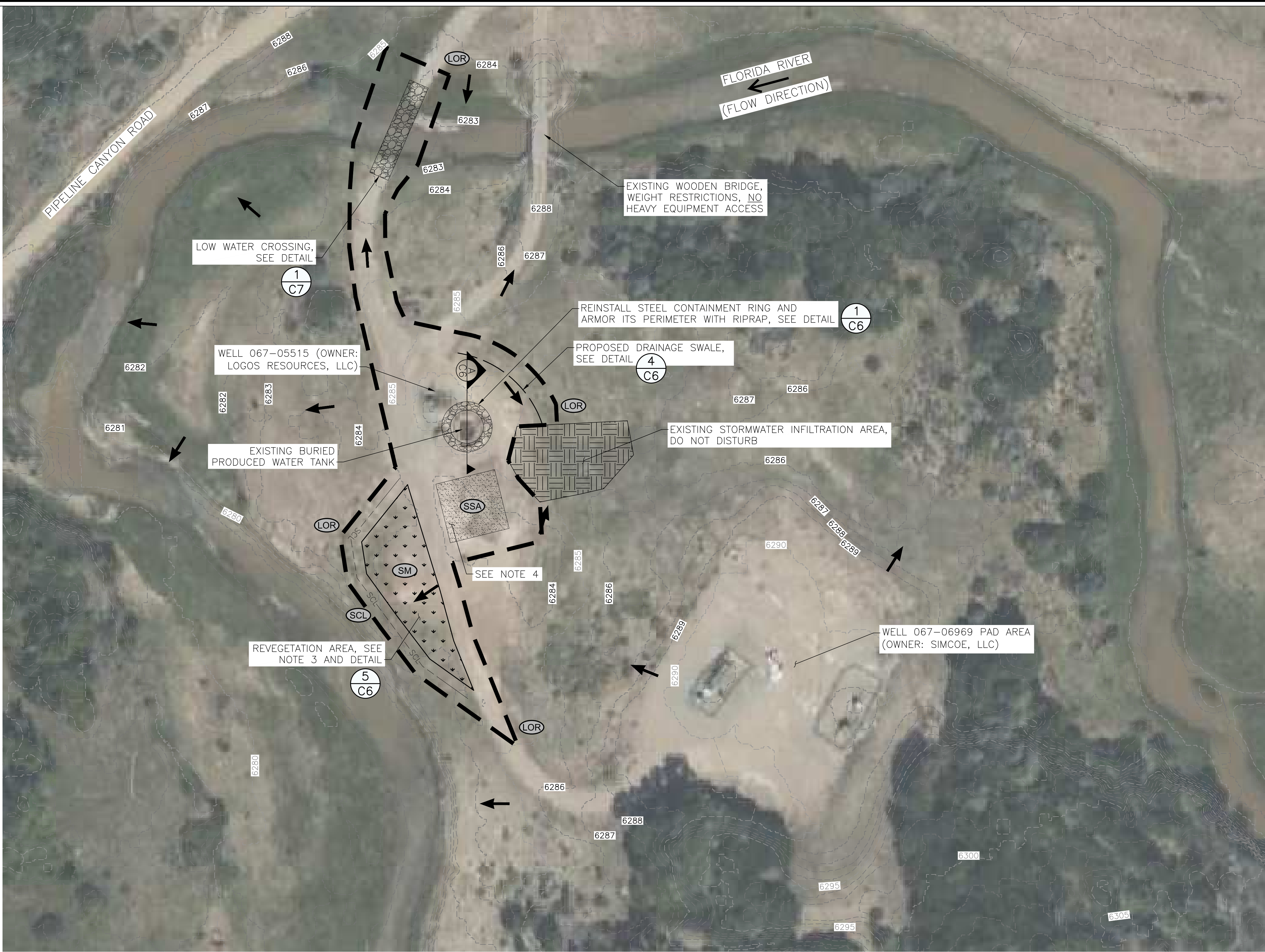
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**INTERIM SWMP FOR WELL LOCATION ID 325172 & 312051**  
**LOGOS RESOURCES, LLC & SIMCOE, LLC**

**OVERALL PLAN**

JOB NO.  
**191-027.030**  
REVISION NO.  
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SHEET NO.  
**C2**





- NOTES:
1. SEE SHEET C1 FOR GENERAL SWMP NOTES AND SWMP LEGEND.
  2. SEE DETAIL SHEETS C5 – C7 FOR BEST MANAGEMENT PRACTICES (BMPs) IDENTIFIED ON THIS PLAN.
  3. AREAS THAT ARE TO BE REVEGETATED SHALL HAVE SOIL AMENDMENT APPLIED FIRST. SEE DETAIL SHEETS FOR MORE INFORMATION.
  4. GRAVEL FOR STABILIZED STAGING AREA (SSA) TO REMAIN IN PLACE AFTER WORK IS COMPLETE. PERIMETER CONTROLS ASSOCIATED WITH SSA TO BE REMOVED ONCE SSA IS NO LONGER IN USE. SEE DETAIL 2 ON SHEET C5 FOR MORE INFORMATION.
  5. BASED ON FIELD CONDITIONS ENCOUNTERED, FINAL LOCATIONS AND/OR LIMITS OF BMPs MAY BE ADJUSTED WITH PRIOR WRITTEN ACCEPTANCE OF DESIGN ENGINEER AND OWNER. CONTRACTOR SHALL KEEP A REDLINED SET OF PLANS TO INDICATE ANY CHANGES TO LOCATIONS AND/OR LIMITS OF BMPs.

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**INTERIM SWMP FOR WELL LOCATION ID 325172 & 312051**  
**LOGOS RESOURCES, LLC & SIMCOE, LLC**

**INTERIM SWMP FOR WELL LOCATION ID 325172**

JOB NO. **191-027.030**  
REVISION NO. **---**  
SHEET NO. **C3**



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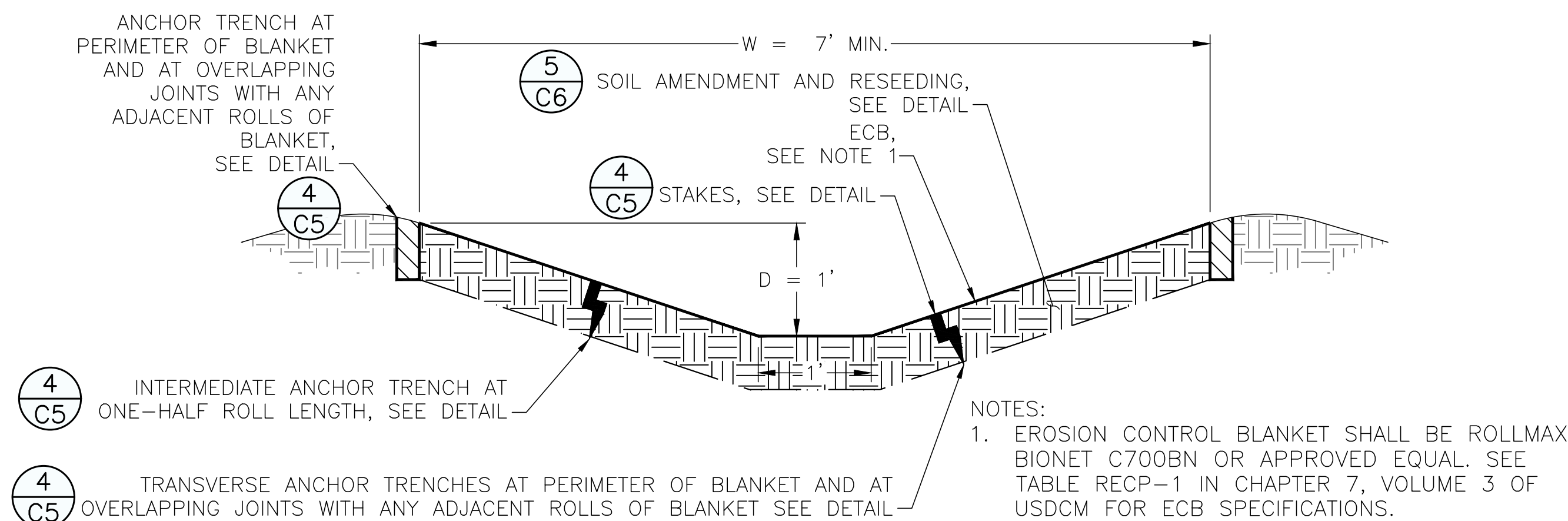
\*D<sub>50</sub> = MEAN ROCK SIZE

THICKNESS REQUIREMENTS FOR GRANULAR BEDDING			
MINIMUM BEDDING THICKNESS (INCHES)			
RIPRAP DESIGNATION	FINE-GRAINED SOILS <sup>1</sup>		COARSE-GRAINED SOILS <sup>2</sup>
	TYPE I (LOWER LAYER)	TYPE II (UPPER LAYER)	
VL (D <sub>50</sub> = 6 IN)	4	4	6
L (D <sub>50</sub> = 9 IN)	4	4	6
M (D <sub>50</sub> = 12 IN)	4	4	6
H (D <sub>50</sub> = 18 IN)	4	6	8
VH (D <sub>50</sub> = 24 IN)	4	6	8

NOTES:

1. MAY SUBSTITUTE ONE 12-INCH LAYER OF TYPE II BEDDING. THE SUBSTITUTION OF ONE LAYER OF TYPE II BEDDING SHALL NOT BE PERMITTED AT DROP STRUCTURES. THE USE OF A COMBINATION OF FILTER FABRIC AND TYPE II BEDDING AT DROP STRUCTURES IS ACCEPTABLE.
2. FIFTY PERCENT OR MORE BY WEIGHT RETAINED ON THE #40 SIEVE.

- RIPRAP SPECIFICATIONS:**
1. NEITHER WIDTH NOR THICKNESS OF A SINGLE STONE OF RIPRAP SHALL BE LESS THAN ONE-THIRD (1/3) OF ITS LENGTH
  2. THE SPECIFIC GRAVITY OF THE RIPRAP SHALL BE TWO AND ONE-HALF (2.5) OR GREATER.
  3. RIPRAP SPECIFIC GRAVITY SHALL BE ACCORDING TO THE BULK-SATURATED, SURFACE DRY BASIS, IN ACCORDANCE WITH AASHTO T85.
  4. THE BULK DENSITY FOR THE RIPRAP SHALL BE 1.3 TON/CY OR GREATER.
  5. THE RIPRAP SHALL HAVE A PERCENTAGE LOSS OF NOT MORE THAN FORTY PERCENT (40%) AFTER FIVE HUNDRED (500) REVOLUTIONS WHEN TESTED IN ACCORDANCE WITH AASHTO T96.
  6. THE RIPRAP SHALL HAVE A PERCENTAGE LOSS OF NOT MORE THAN TEN PERCENT (10%) AFTER TWELVE (12) CYCLES OF FREEZING AND THAWING WHEN TESTED IN ACCORDANCE WITH AASHTO T103 FOR LEDGE ROCK, PROCEDURE A.
  7. IF SPECIFIED RIPRAP SIZE IS NOT AVAILABLE, CONTRACTOR TO SUBMIT REPLACEMENT PRODUCT TO DESIGN ENGINEER FOR REVIEW AND APPROVAL.



3 RIPRAP AND BEDDING  
C6 SOURCE: MHFD (FIGURE 8–34, CHAPTER 8)

SOURCE: MHFD (FIGURE 8-34, CHAPTER 8, VOLUME 1 OF USDCM)

SOIL AMENDMENT NOTES:

1. 2 CUBIC YARDS OF QUALITY COMPOST PER 1000 SQUARE FEET SHALL BE APPLIED TO AREA DESIGNATED FOR SOIL AMENDMENT. SEE CHARACTERISTICS OF MATURE COMPOST SUITABLE FOR SOIL AMENDMENT IN TABLE 7-2.
2. THE COMPOST SHALL BE INCORPORATED AT LEAST 6-INCHES INTO THE SOIL BY TILLING THE SOIL 8 TO 12-INCHES UNTIL NO CLUMPS OR AREAS OF THICK COMPOST REMAIN ON THE SURFACE.
3. IF REQUESTED BY OWNER, CONTRACTOR TO PERFORM SOIL SAMPLING TO CONFIRM NEED FOR SOIL AMENDMENT. SOIL SAMPLES SHALL BE TESTED BY TRITON ENVIRONMENTAL OR ENGINEER APPROVED EQUAL.

**Table 7-2. Characteristics of Mature Compost Suitable for Soil Amendment**

Maturity Indicator	Desired Result
Ammonia N/Nitrate N Ratio	<6
Carbon to Nitrogen Ratio	<18
Percentage of Germination and Vigor	80% or more for both germination and vigor
pH	5.5-8.0
Soluble Salts Concentrations	2.5 dS (mmhos/cm) or less preferred
Particle Size	Pass through 1-inch screen or smaller
Moisture Content	35% - 55%
Maturity/Growth Screening	Demonstrate ability to enhance plant growth
Stability	Stable to highly stable, providing nutrients for plant growth
Organic Matter Content	30% - 70%

SEEDING NOTES:

1. AFTER SOIL AMENDMENT, CONTRACTOR SHALL APPLY SEED MIX SHOWN IN TABLE 7-3.
2. AMOUNT OF PLS SHOWN IN TABLE 7-3 IS FOR DRILL SEEDING APPLICATION. CONTRACTOR SHALL DOUBLE AMOUNT OF PLS FOR BROADCAST SEEDING.

\*\*SEED MIX MUST BE APPROVED BY  
LAND OWNER AND AMENDED AS  
NECESSARY.

5 SOIL AMENDMENT, SEEDING, AND MULCHING  
C6 SOURCES: CITY OF DURANGO STORM DRAINAGE DESIGN CRITERIA MANUAL AND TRITON

SOURCES: CITY OF DURANGO STORM DRAINAGE DESIGN CRITERIA MANUAL AND TRITON ENVIRONMENTAL

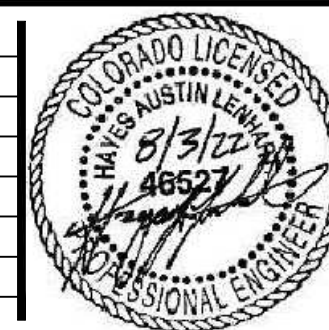
**Table 7-3. Reference Restoration Seed Mix**

Common Name	Botanical Name	PLS (lbs/acre)
Arriba Western Wheatgrass	Pascopyrum smith 'Arriba'	4
Pubescent Luna Wheatgrass	Thinopyrum intermediums sp. Barulatum	3.5
Indian Ricegrass 'Rimrock'	Achnatherum hymenoides	1.5
Tall Fescue	Festuca arundinacia	1
Garnet Mountain Brome	Bromus marginatus	3.5
Blue Flax	Linum lewisii	1
Lovington Blue Gramma	Bouteloua gracilis 'Lovington'	1
Gulf (Lonestar) Annual Rye	Lolium perenne ssp. Multiflorum	3.5
Antelope Bitter-Purshia	Purshia tridentata	0.125
Saltbrush-Fourwing	Atriplex canescens	0.375
Small Burnet-Delar	Sansquisorba minor	0.75
Blue Wildrye	Elymus glaucus	2.75
Ryegrass, Wild Russian Bozoisky	Psathyrostachys juncea	1.5
Total		24.5

## HYDROMULCH NOTES:

1. HYDROMULCH MUST MEET OR EXCEED THE FOLLOWING REQUIREMENTS:
  - 1.1. HYDROMULCH IS TO BE FULLY BIODEGRADABLE MATRIX COMPOSED OF 100% RECYCLED AND THERMALLY REFINED WOOD FIBERS, CRIMPED INTERLOCKING BIODEGRADABLE FIBERS, AND NATURALLY DERIVED BIOPOLYMERS.
  - 1.2. FUNCTIONAL LONGEVITY SHALL BE LESS THAN OR EQUAL TO 12 MONTHS.
  - 1.3. CURE TIME SHALL BE LESS THAN 2 HOURS.
  - 1.4. THERMALLY PROCESSED WOOD FIBERS – 77%
  - 1.5. WETTING AGENTS (CROSS LINKED TACKIFIERS) – 10%
  - 1.6. CRIMPED, BIODEGRADABLE INTERLOCKING FIBERS – 2.5%

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INTERIM SWMP FOR WELL LOCATION ID 325172 & 312051  
LOGOS RESOURCES, LLC & SIMCOE, LLC

## SWMP DETAILS

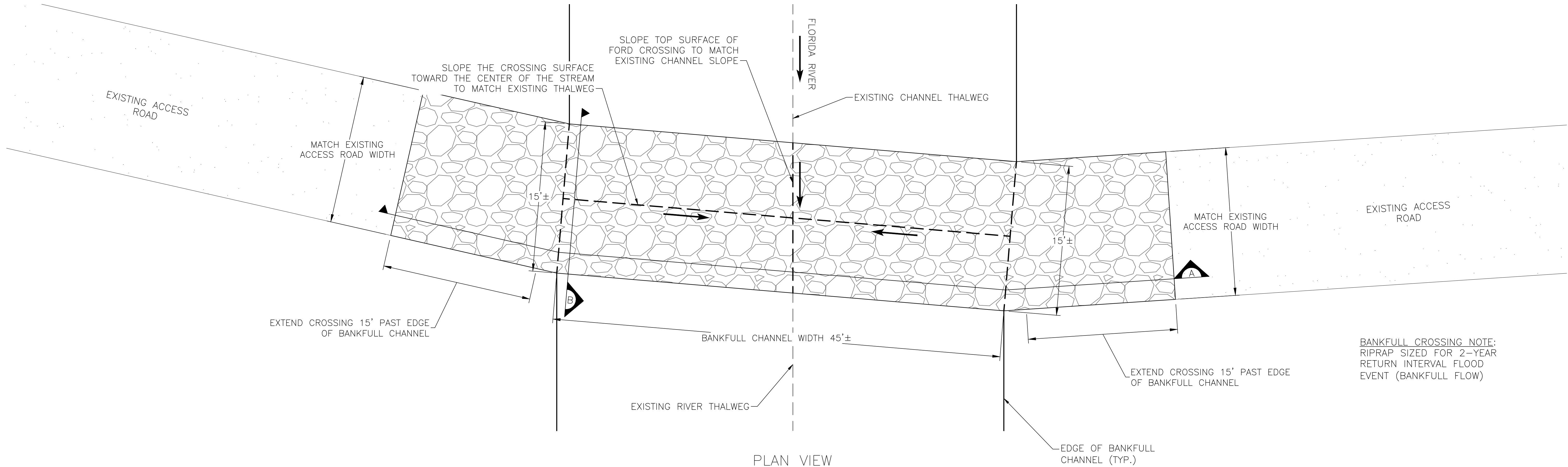
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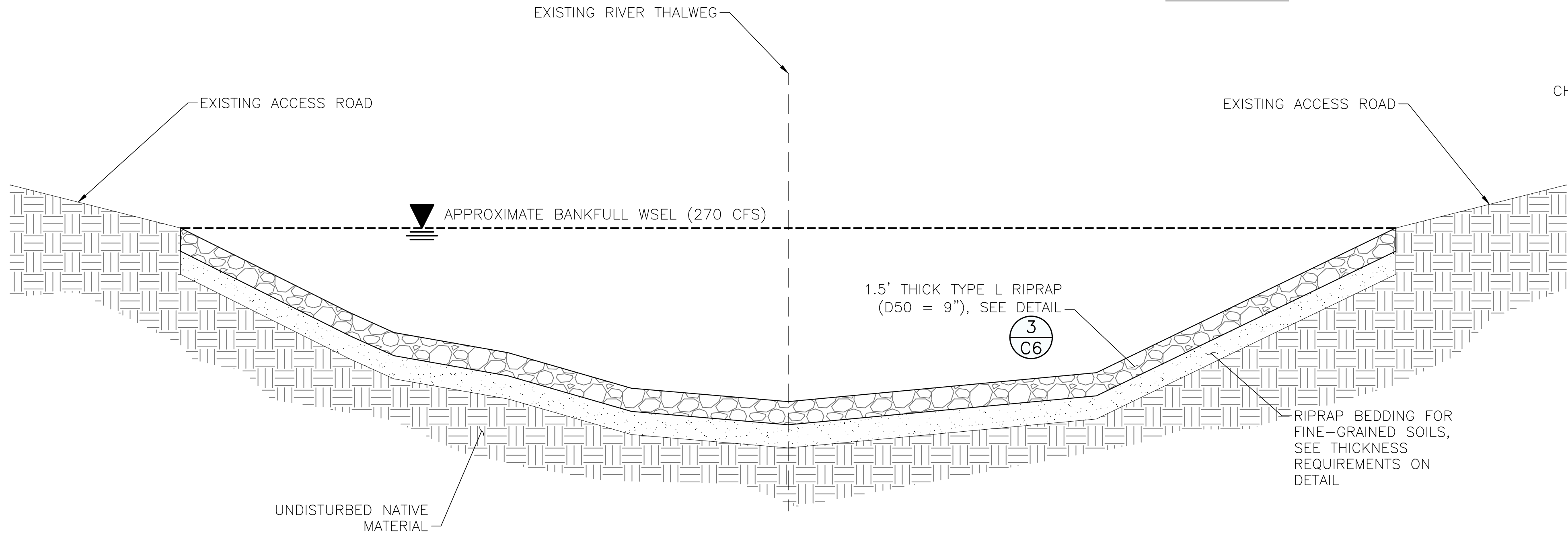
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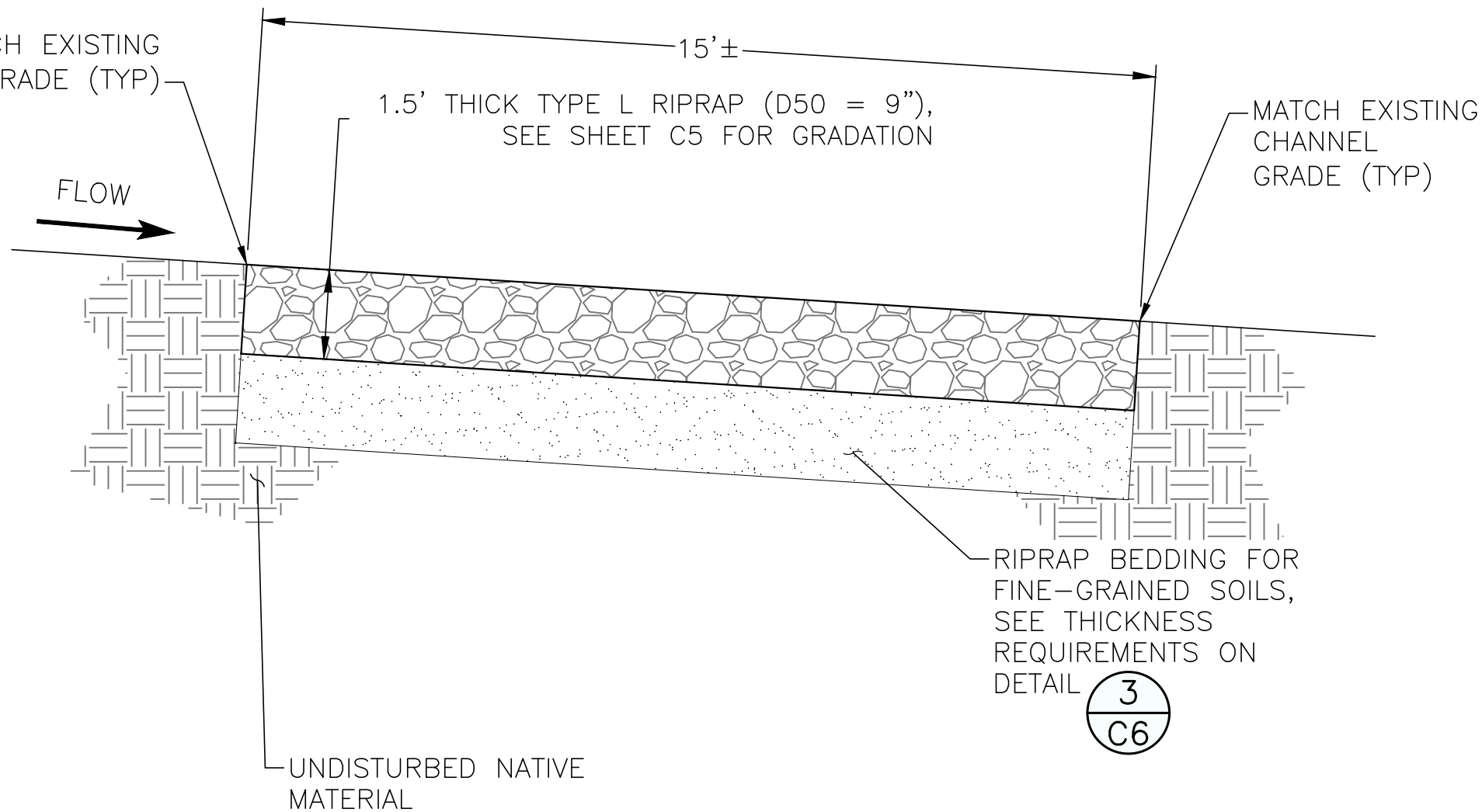
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PLAN VIEW



SECTION A



SECTION B

1 LOW WATER CROSSING DETAIL  
C7

NOT TO SCALE. SOURCE: DETAIL BASED ON GUIDANCE FROM NATURAL RESOURCES CONSERVATION SERVICE (NRCS) CONSERVATION PRACTICE STANDARD 578



WRIGHT WATER ENGINEERS, INC.  
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LOW WATER CROSSING DETAIL

JOB NO.	191-027.030
REVISION NO.	---
SHEET NO.	C7