

# TRIVIEW METROPOLITAN DISTRICT NORTHERN DELIVERY SYSTEM EROSION CONTROL - EL PASO COUNTY

APRIL 2023

## LEGEND

	EX EDGE OF PAVEMENT		PP WATER LINE ALIGNMENT
	PROPERTY BOUNDARY		PP EROSION CONTROL SILT FENCE (INITIAL/INTERIM)
	CRITICAL MOUSE HABITAT		PP EROSION CONTROL EARTHEN BERM (INTERIM)
	EX GAS		PP U.G. ELECTRIC LINE
	EX OVERHEAD ELECTRIC		PP EROSION CONTROL SALES (INTERIM)
	EX SANITARY SEWER		PP EROSION CONTROL LOG (INTERIM)
	EX UNDERGROUND COMMUNICATIONS		PP VEHICLE TRACKING PAD (INITIAL/INTERIM)
	EX UNDERGROUND ELECTRIC		PP FIRE HYDRANT
	EX UNDERGROUND STORM SEWER		PP WATER LINE FITTING
	EX FENCE		PP WATER VALVE
	EX WATER LINE		FLOW DIRECTION
	EX CONTOURS-MAJOR		
	EX CONTOURS-MINOR		
	EX UTILITY POLE		
	EX TREE		

## SURVEY DATA

HORIZONTAL DATUM: HORIZONTAL COORDINATES ARE MODIFIED COLORADO STATE PLANE CENTRAL BASED UPON THE FOLLOWING:  
 COORDINATES ARE SCALED FROM CONTROL POINT 5052 BEING A 2-INCH ALUMINUM CAP STAMPED AZTEC CP 52 SET AT THE TOP OF A DIRT BANK ALONG THE EAST SIDE OF GLEN EAGLE DR. APPROXIMATELY 350' +/- FEET NORTHERLY OF ST. LAWRENCE WAY. VALUES ARE BASED UPON A STATIC SURVEY SESSION WITH THE FOLLOWING RESULTS:  
 LATITUDE: 39-04-05.918N  
 LONGITUDE: 104-49-24.62486 W  
 STATE PLANE NORTHING: 1,450,401.759  
 STATE PLANE EASTING: 3,152,049.712  
 SCALE FACTOR: 1.0004083250  
 TRUNCATE NORTHING: 1,000,000.00  
 TRUNCATE EASTING: 3,000,000.00  
 PROJECT NORTHING: 450,401.759  
 PROJECT EASTING: 152,049.712

VERTICAL DATUM: NAVD 88 WITH GEOID 018US  
 BENCHMARK: CP 5052 EL: 7213.70  
 BENCHMARK: NGS CS 110 / DM8842 EL: 6843.25  
 Benchmark NGS S294/KKK0272 EL: 7116.72

### PRE-EXCAVATION CHECKLIST

- Gas and Other Utility Lines Shown on Construction Plans
- Utility Notification Center of Colorado (UNCC) Call at Least Two (2) Business Days Ahead 1-800-922-1987
- Utilities Located & Marked on the Ground
- Employees Briefed on Marking and Color Codes
- Employees Trained on Excavation and Safety Procedures for Natural Gas Lines
- When Excavation Approaches Gas Lines, Employees Must Expose Lines by Careful Probing and Hand-Digging

### COLOR CODE

For Marking Underground Utility Lines

	Proposed Excavation
	Temporary Survey Markings
	Electric
	Gas Oil Steam
	Communication, CCTV
	Potable Water
	Irrigation, Excludes Water, Slurry Lines
	Sewer



# FOR CONSTRUCTION



VICINITY MAP  
N.T.S.

**JDS-HYDRO** Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATION AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY THE DISTRICT DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY OTHER FEDERAL, OR STATE ACCESSIBILITY LAWS OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

## SHEET INDEX

SHEET NUMBER	DESCRIPTION	COVER SHEET
<b>EROSION CONTROL</b>		
EC-00	KEY MAP	EC-13
EC-01	EROSION CONTROL NOTES	EC-14
EC-02	SEC. A1 STA 200+00 TO 216+00	EC-15
EC-03	SEC. A1 STA 216+00 TO 232+00	EC-16
EC-04	SEC. A1 STA 232+00 TO 248+00	EC-17
EC-05	SEC. A1 STA 248+00 TO 264+00	EC-18
EC-06	SEC. A1 & A2 STA 264+00 TO 303+00	EC-19
EC-07	SEC. A2 STA 303+00 TO 319+00	EC-20
EC-08	SEC. A2 STA 319+00 TO 335+00	EC-21
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EC-11	SEC. A3 STA 400+00 TO 416+00	
EC-12	SEC. A3 STA 416+00 TO 432+00	
		SEG. A3 STA 432+00 TO 448+50
		SEG. B4 STA 128+50 TO 140+50
		SEG. B4 STA 140+50 TO 152+35
		LAYOUT YARD PLAN
		EROSION CONTROL DETAILS

## PARTICIPANTS

**OWNER**  
 TRIVIEW METROPOLITAN DISTRICT  
 16055 OLD FOREST POINT #300  
 MONUMENT, CO 80132  
 CONTACT: JIM MCGRADY  
 PHONE: (719) 488-6868

**CONSULTING/DESIGN ENGINEER**  
 JDS-HYDRO CONSULTANTS,  
 A DIVISION OF RESPEC  
 5540 TECH CENTER DR, STE 100  
 COLORADO SPRINGS, CO 80903  
 CONTACT: DOUG SCHWENKE, PE  
 PHONE: (719) 227-0072

## SIGNATURE BLOCKS

**ENGINEER'S STATEMENT**  
 THIS EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN AND BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DRAINAGE AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY NEGLIGENCE ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS REPORT.

*Loren J. Dall*  
 OWEN DOLYN J. DALL, P.E. #51810  
 DATE: 4/28/23

**OWNER'S STATEMENT**  
 I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE EROSION CONTROL PLAN.

*James M. McGrady*  
 JIM MCGRADY, DISTRICT MANAGER  
 ON BEHALF OF TRIVIEW METROPOLITAN DISTRICT  
 DATE: 4-28-23

**EL PASO COUNTY**  
 COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH EGM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS. THE PLANS WILL NEED TO BE RE-SUBMITTED FOR APPROVAL INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

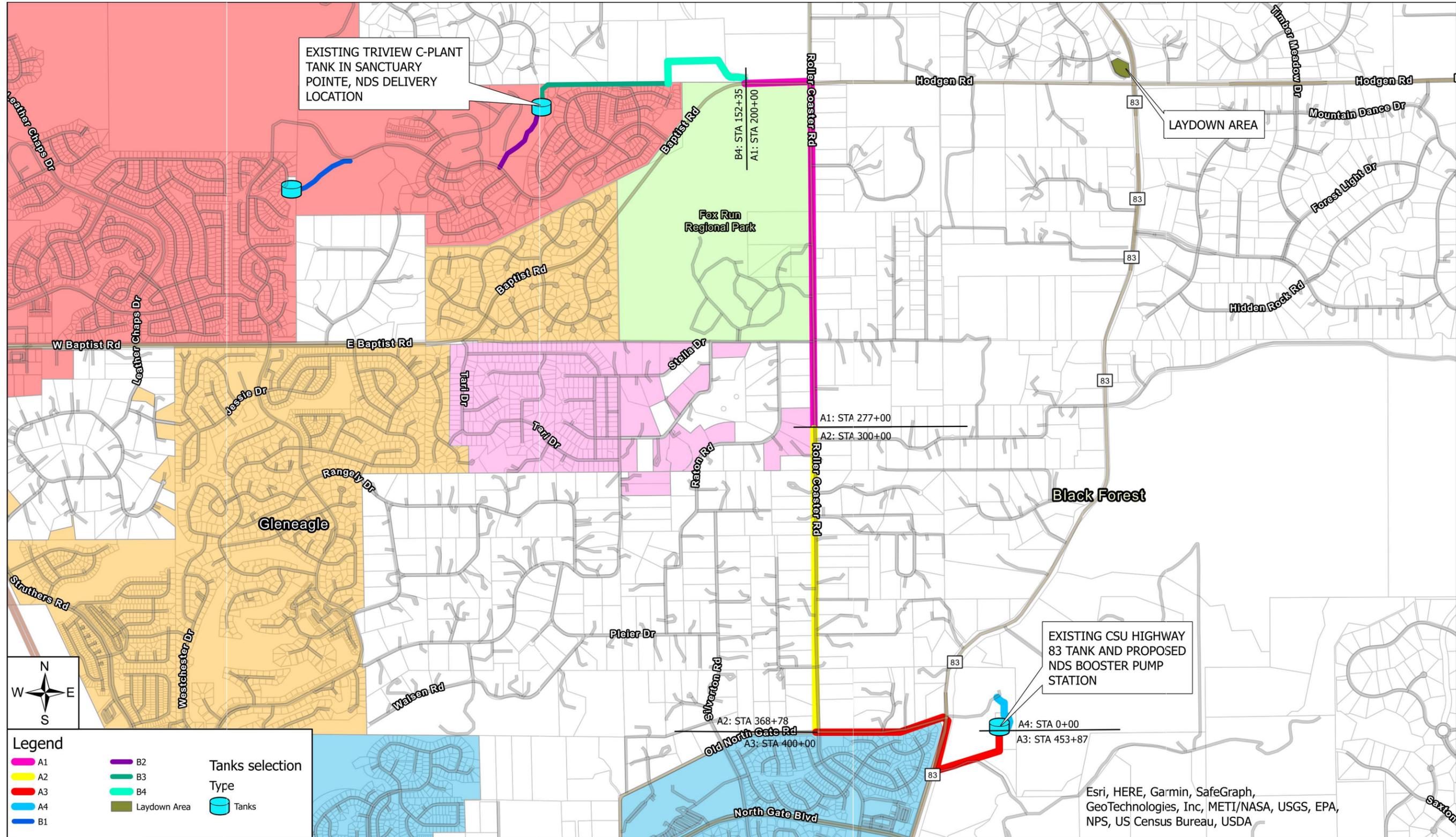
Approved  
 By: Elizabeth Nijkamp, PE  
 Date: 05/3/2023  
 El Paso County Department of Public Works

COUNTY ENGINEER/ECM ADMINISTRATOR

PCD File No. CDR-239

DATE

C:\Users\swest\OneDrive - JDS Hydro\Desktop\22429\_Seg\_A1&A2\_Erosion\_Control.dwg 2023/04/28 3:01 PM By: Shelby Heule



**Legend**

<span style="color: yellow;">—</span> A1	<span style="color: purple;">—</span> B2	Tanks selection
<span style="color: red;">—</span> A2	<span style="color: green;">—</span> B3	Type
<span style="color: cyan;">—</span> A3	<span style="color: magenta;">—</span> B4	
<span style="color: blue;">—</span> A4	Laydown Area	
<span style="color: darkblue;">—</span> B1		

**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

RESPEC/RESPEC ENGINEERS SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 KEY MAP

NO.	DESCRIPTION	BY	APP.	DATE
1				
2				
3				
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5				
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FOR CONSTRUCTION



Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

EC-00  
 SHEET --- OF ---

EPC 5/30/23

Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

2023/05/01 8:58 AM By: Gwendolyn (Gwen) [B] Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Erosion Control.dwg

**EROSION CONTROL NOTES**

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 OF 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 (SMWO) 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 OPERATION CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURE 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 VEGETATION 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 OR OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, IN 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 VIVID ENGINEERING GROUP AND SHALL BE CONSIDERED A PART OF THESE PLANS. (REV 1: 01/04/23)
29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ON (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

30. EXISTING VEGETATION:  
 A1, A2, A3 & STA 400+00 TO 427+00: PIPE TO BE INSTALLED UNDER PAVED ROAD, NO EXISTING VEGETATION  
 A3 STA 427+00 TO 453+87.84, A4 & B4: VEGETATION IDENTIFIED INCLUDES INTRODUCED AND NATIVE GRASS AND HERBACEOUS SPECIES, SUCH AS SMOOTH BROME, PRAIRIE DROPSEED, SUN SEDGE, WESTER RAGWEED, YARROW, AND PEPPERWEED. SAPLING AND TREE SPECIES OBSERVED ALONG THE PROJECT INCLUDE PONDEROSA PINE AND SCRUB OAK.
31. THERE WILL BE NO CUT/FILL AREAS FOR THIS PROJECT.
32. NO BATCH PLANTS WILL BE UTILIZED ONSITE.

AREA DESCRIPTION	DIAMETER OF PIPE	LENGTH OF PIPE (FT)	TOTAL PROJECT AREA (ACRES)	TOTAL AREA OF DISTURBANCE (AREA)	TOTAL AREA REQUIRING REVEGETATION (ACRES)	CURRENT IMPERVIOUS AREA (ACRES)
EL PASO COUNTY ROW	16"	15,005	17.22	2.41		8.61
EPC SCH #6203000001	16"	5,011	3.57	2.30	2.30	
EPC SCH #6203000001	8"	959	0.39	0.44	0.44	
EPC SCH #6100000517	16"	2,290	1.88	1.05	0.57	
EPC SCH #6122007015	LAYDOWN YARD		6.5	6.5	4.9	
TOTAL		23,265	29.56	12.70	8.21	8.61

**SEED MIX**

AREAS DISTURBED BY THE EARTHWORK SHALL BE PERMANENTLY REVEGETATED WITH NATIVE GRASSES. NATIVE SEED MIX FOR THIS PROJECT SHALL BE AS FOLLOWS:

COMMON NAME	RECOMMENDED CULTIVAR	% OF SEED MIX	NON IRRIGATED PLS RATE PER ACRE DRILL BROADCAST	
BIG BLUESTEM, NATIVE	KAW	20.00%	5.5	11.0
LITTLE BLUESTEM	CAMPER	10.00%	1.5	3.0
GREEN NEEDLEGRASS, NATIVE	LODORM	10.00%	5.0	10.0
WESTERN WHEATGRASS, NATIVE	ARRIBA	20.00%	8.0	16.0
SIDEOATS GRAMA, NATIVE	EL RENO	10.00%	4.5	9.0
SWITCHGRASS	BLACKWELL	10.00%	2.0	4.0
PRAIRIE SANDREED, NATIVE	GOSHEN	10.00%	3.5	7.0
YELLOW INDIANGRASS, NATIVE	CHEYENNE	10.00%	5.0	10.0

SEEDING APPLICATION: DRILL SEED 1/4" TO 1/2" INTO TOPSOIL. IN AREAS INACCESSIBLE TO A DRILL, HAND BROADCAST AT DOUBLE THE RATE AND RAKE 1/4" TO 1/2" INTO THE TOPSOIL.  
MULCHING APPLICATION: 1-1/2 TONS NATIVE HAY PER ACRE, MECHANICALLY CRIMPED INTO THE TOPSOIL.

**JDS-HYDRO** a Division of **RESPEC**  
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 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072  
DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
**EROSION CONTROL NOTES**

NO.	DESCRIPTION	BY	APP.	DATE
1				
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7				

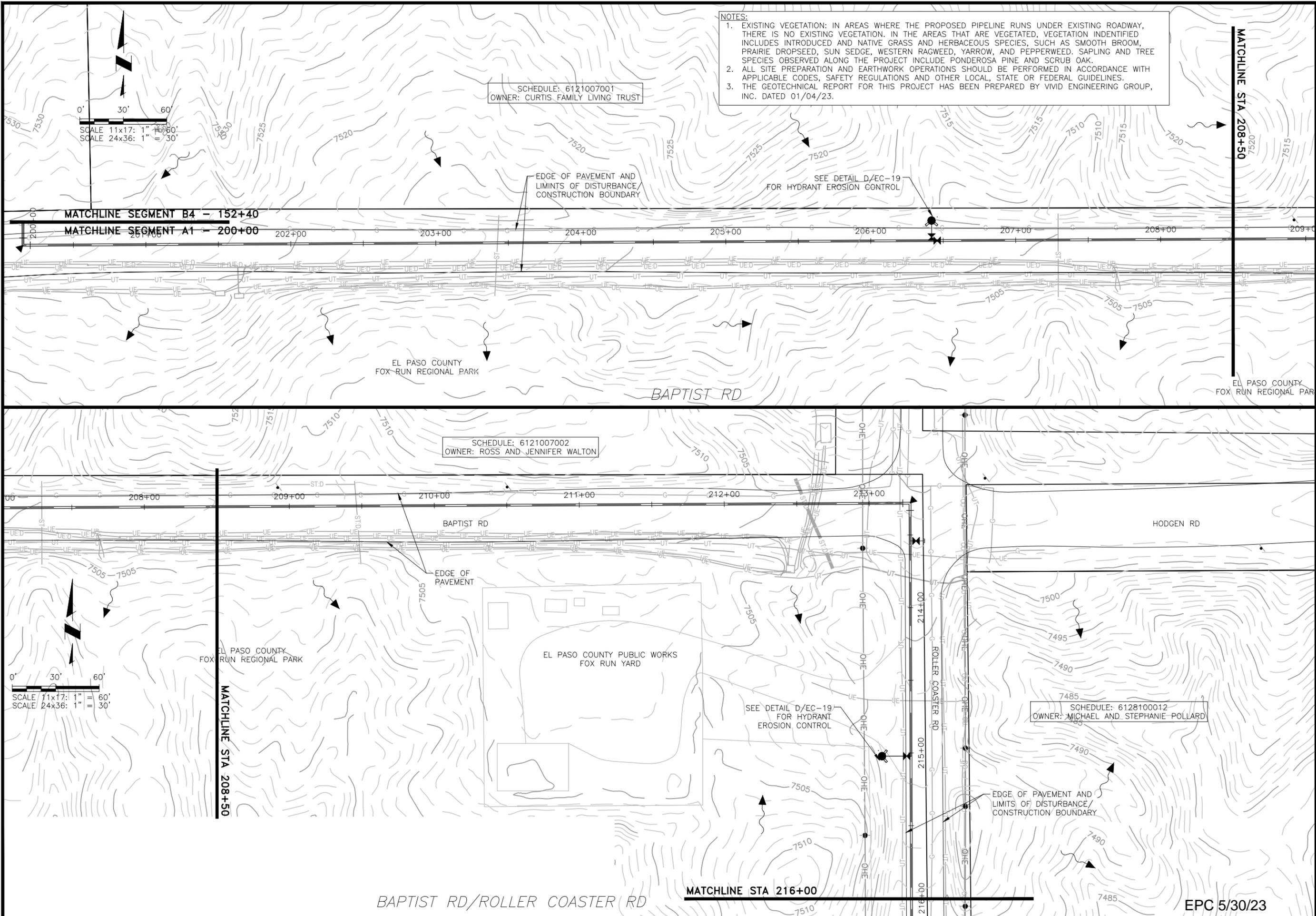
**FOR CONSTRUCTION**



Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

**EC-01**  
 SHEET ----OF

2023/04/28 2:17 PM By: Shelby Heule NA:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_Seg\_A1&A2\_Erosion Control.dwg



**NOTES:**  
 1. EXISTING VEGETATION: IN AREAS WHERE THE PROPOSED PIPELINE RUNS UNDER EXISTING ROADWAY, THERE IS NO EXISTING VEGETATION. IN THE AREAS THAT ARE VEGETATED, VEGETATION IDENTIFIED INCLUDES INTRODUCED AND NATIVE GRASS AND HERBACEOUS SPECIES, SUCH AS SMOOTH BROOM, PRAIRIE DROPSIDE, SUN SEDGE, WESTERN RAGWEED, YARROW, AND PEPPERWEED. SAPLING AND TREE SPECIES OBSERVED ALONG THE PROJECT INCLUDE PONDEROSA PINE AND SCRUB OAK.  
 2. ALL SITE PREPARATION AND EARTHWORK OPERATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH APPLICABLE CODES, SAFETY REGULATIONS AND OTHER LOCAL, STATE OR FEDERAL GUIDELINES.  
 3. THE GEOTECHNICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY VIVID ENGINEERING GROUP, INC. DATED 01/04/23.

SCHEDULE: 6121007001  
 OWNER: CURTIS FAMILY LIVING TRUST

SCHEDULE: 6121007002  
 OWNER: ROSS AND JENNIFER WALTON

SCHEDULE: 6128100012  
 OWNER: MICHAEL AND STEPHANIE POLLARD

SCALE 11x17: 1" = 60'  
 SCALE 24x36: 1" = 30'

SCALE 11x17: 1" = 60'  
 SCALE 24x36: 1" = 30'

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 5540 TECH CENTER DR., SUITE 100  
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 (719) 227-0072

TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1  
 EROSION CONTROL PLAN

NO.	DESCRIPTION	BY	APP.	DATE
1				
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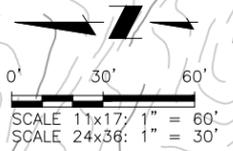
Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

EC-02  
 SHEET --- OF ---

EPC 5/30/23

**NOTES:**

- EXISTING VEGETATION: IN AREAS WHERE THE PROPOSED PIPELINE RUNS UNDER EXISTING ROADWAY, THERE IS NO EXISTING VEGETATION. IN THE AREAS THAT ARE VEGETATED, VEGETATION IDENTIFIED INCLUDES INTRODUCED AND NATIVE GRASS AND HERBACEOUS SPECIES, SUCH AS SMOOTH BROOM, PRAIRIE DROPSSEED, SUN SEDGE, WESTERN RAGWEED, YARROW, AND PEPPERWEED. SAPLING AND TREE SPECIES OBSERVED ALONG THE PROJECT INCLUDE PONDEROSA PINE AND SCRUB OAK.
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- THE GEOTECHNICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY VIVID ENGINEERING GROUP, INC. DATED 01/04/23.



SCHEDULE: 6128100003  
OWNER: MORGAN MCKINSEY

SCHEDULE: 6128100004  
OWNER: JOHN AND BETH ELLIOTT

EDGE OF PAVEMENT AND  
LIMITS OF DISTURBANCE/  
CONSTRUCTION BOUNDARY

SEE DETAIL D/EC-19  
FOR HYDRANT  
EROSION CONTROL

FOX RUN / REGIONAL  
PARK TRAILHEAD AND  
PARKING

EL PASO COUNTY  
FOX RUN REGIONAL PARK

ROLLER COASTER RD

SCHEDULE: 6128100005  
OWNER: MATTHEW AND KAREN BRANDT

SCHEDULE: 6128100006  
OWNER: ALUMBAUGH FAMILY REV  
LIVING TRUST

SCHEDULE: 6128102001  
OWNER: NANCY AND WILLIAM OFFUTT

EDGE OF PAVEMENT AND  
LIMITS OF DISTURBANCE/  
CONSTRUCTION BOUNDARY

SEE DETAIL D/EC-19  
FOR HYDRANT  
EROSION CONTROL

FOX RUN / REGIONAL  
PARK TRAILHEAD AND  
PARKING

EL PASO COUNTY  
FOX RUN REGIONAL PARK

ROLLER COASTER RD

**JDS-HYDRO** a Division of **RESPEC**  
5540 TECH CENTER DR., SUITE 100  
COLORADO SPRINGS, COLORADO 80919  
(719) 227-0072

DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

TRIVIEW METROPOLITAN DISTRICT  
NORTHERN DELIVERY SYSTEM  
SEGMENT A1  
EROSION CONTROL PLAN

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FOR CONSTRUCTION



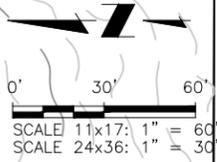
Project No.: 224.29  
Date: 04/28/23  
Design: GJD  
Drawn: SNH  
Check: MLD

EC-03  
SHEET --- OF ---

EPC 5/30/23

2023/04/28 2:18 PM By: Shelby Heule NA:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Bpittist - Roller Coaster\22429\_Seg\_A1EAC\_Erosion Control.dwg

2023/04/28 2:19 PM By: Shelby Heule N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Bppitst - Roller Coaster\22429\_Seg\_A1&A2\_Erosion Control.dwg



**NOTES:**  
 1. EXISTING VEGETATION: IN AREAS WHERE THE PROPOSED PIPELINE RUNS UNDER EXISTING ROADWAY, THERE IS NO EXISTING VEGETATION. IN THE AREAS THAT ARE VEGETATED, VEGETATION IDENTIFIED INCLUDES INTRODUCED AND NATIVE GRASS AND HERBACEOUS SPECIES, SUCH AS SMOOTH BROOM, PRAIRIE DROPSEED, SUN SEDGE, WESTERN RAGWEED, YARROW, AND PEPPERWEED. SAPLING AND TREE SPECIES OBSERVED ALONG THE PROJECT INCLUDE PONDEROSA PINE AND SCRUB OAK.  
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 3. THE GEOTECHNICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY VIVID ENGINEERING GROUP, INC. DATED 01/04/23.

SCHEDULE: 6128102004  
 OWNER: ALAN AND KIMBERLY ARATA

SCHEDULE: 6128102003  
 OWNER: DIX, DAVID E LIVING TRUST

EDGE OF PAVEMENT AND LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

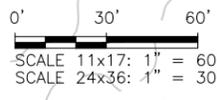
SEE DETAIL D/EC-19 FOR HYDRANT EROSION CONTROL

EL PASO COUNTY FOX RUN REGIONAL PARK

ROLLER COASTER RD

MATCHLINE STA 232+00

MATCHLINE STA 240+00



SCHEDULE: 6128406005  
 OWNER: GAFFNEY JR JAMES P LIVING TRUST

SCHEDULE: 6128406005  
 OWNER: GAFFNEY JR JAMES P LIVING TRUST

SCHEDULE: 6128400001  
 OWNER: SCOTT SNOWDEN

EDGE OF PAVEMENT AND LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

SCHEDULE: 6128001004  
 OWNER: RAYMUNDO AND KRISTIN GRANADO

SCHEDULE: 6128001001  
 OWNER: EL PASO COUNTY

SCHEDULE: 6128001002  
 OWNER: EL PASO COUNTY

ROLLER COASTER RD

MATCHLINE STA 240+00

MATCHLINE STA 248+00

**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1  
 EROSION CONTROL PLAN

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FOR CONSTRUCTION

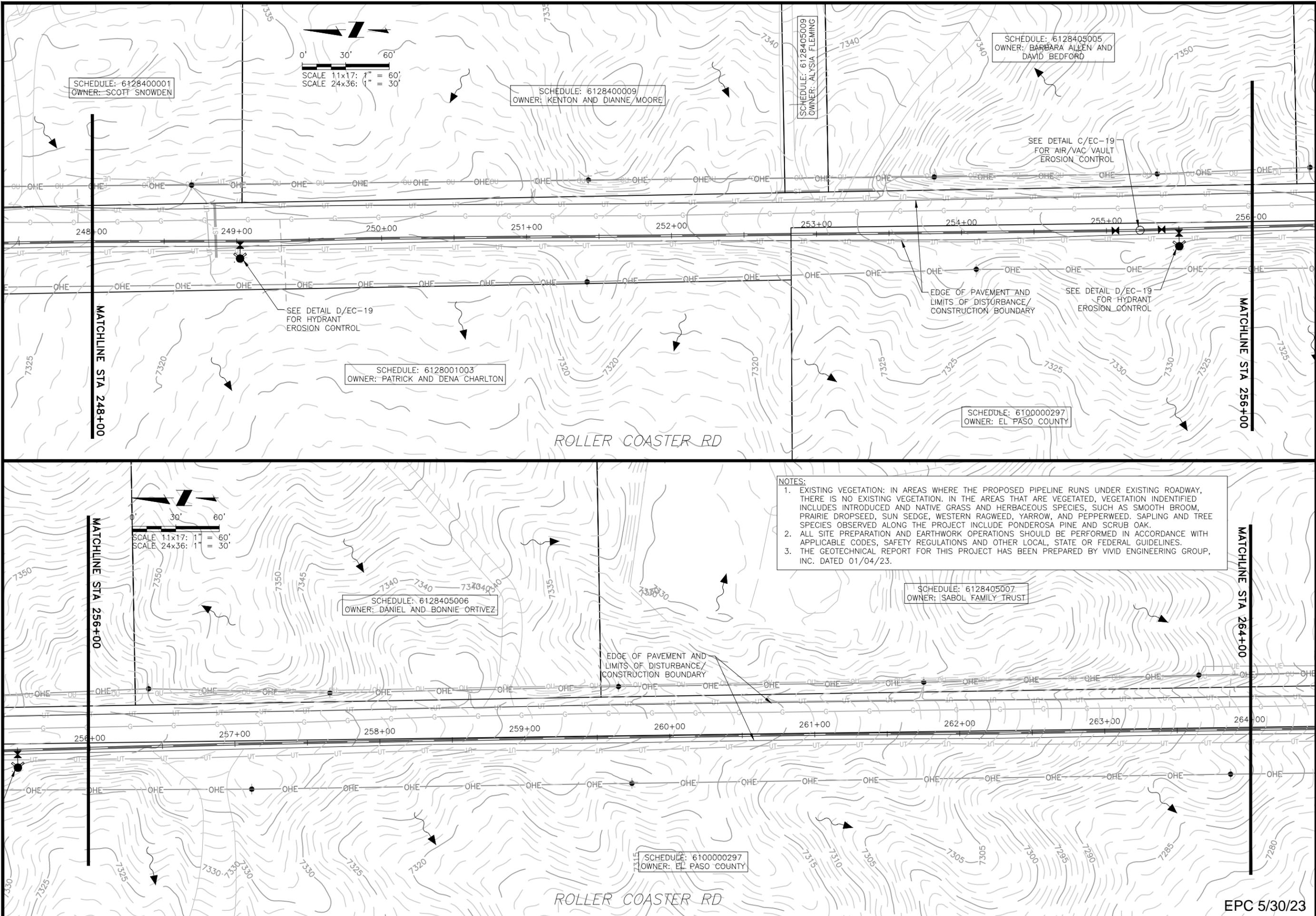


Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

EC-04  
 SHEET --- OF ---

EPC 5/30/23

2023/04/28 2:20 PM By: Shelby Heule NA:Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Bpittis - Roller Coaster\22429\_Seg\_A1&A2\_Erosion Control.dwg



SCHEDULE: 6128400001  
OWNER: SCOTT SNOWDEN

0' 30' 60'  
SCALE 11x17: 1" = 60'  
SCALE 24x36: 1" = 30'

SCHEDULE: 6128400009  
OWNER: KENTON AND DIANNE MOORE

SCHEDULE: 6128405009  
OWNER: ALYSA FLEMING

SCHEDULE: 6128405005  
OWNER: BARBARA ALLEN AND DAVID BEDFORD

SEE DETAIL D/EC-19  
FOR HYDRANT  
EROSION CONTROL

SCHEDULE: 6128001003  
OWNER: PATRICK AND DENA CHARLTON

EDGE OF PAVEMENT AND  
LIMITS OF DISTURBANCE/  
CONSTRUCTION BOUNDARY

SEE DETAIL D/EC-19  
FOR HYDRANT  
EROSION CONTROL

SCHEDULE: 6100000297  
OWNER: EL PASO COUNTY

**NOTES:**  
1. EXISTING VEGETATION: IN AREAS WHERE THE PROPOSED PIPELINE RUNS UNDER EXISTING ROADWAY, THERE IS NO EXISTING VEGETATION. IN THE AREAS THAT ARE VEGETATED, VEGETATION IDENTIFIED INCLUDES INTRODUCED AND NATIVE GRASS AND HERBACEOUS SPECIES, SUCH AS SMOOTH BROOM, PRAIRIE DROPSEED, SUN SEDGE, WESTERN RAGWEED, YARROW, AND PEPPERWEED. SAPLING AND TREE SPECIES OBSERVED ALONG THE PROJECT INCLUDE PONDEROSA PINE AND SCRUB OAK.  
2. ALL SITE PREPARATION AND EARTHWORK OPERATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH APPLICABLE CODES, SAFETY REGULATIONS AND OTHER LOCAL, STATE OR FEDERAL GUIDELINES.  
3. THE GEOTECHNICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY VIVID ENGINEERING GROUP, INC. DATED 01/04/23.

SCHEDULE: 6128405006  
OWNER: DANIEL AND BONNIE ORTIVEZ

SCHEDULE: 6128405007  
OWNER: SABOL FAMILY TRUST

EDGE OF PAVEMENT AND  
LIMITS OF DISTURBANCE/  
CONSTRUCTION BOUNDARY

SCHEDULE: 6100000297  
OWNER: EL PASO COUNTY

**JDS-HYDRO** a Division of **RESPEC**  
5540 TECH CENTER DR., SUITE 100  
COLORADO SPRINGS, COLORADO 80919  
(719) 227-0072  
DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

**TRIVIEW METROPOLITAN DISTRICT**  
NORTHERN DELIVERY SYSTEM  
SEGMENT A1  
EROSION CONTROL PLAN

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**FOR CONSTRUCTION**

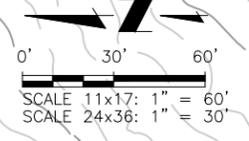
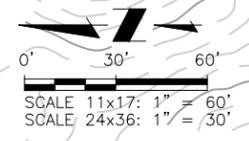
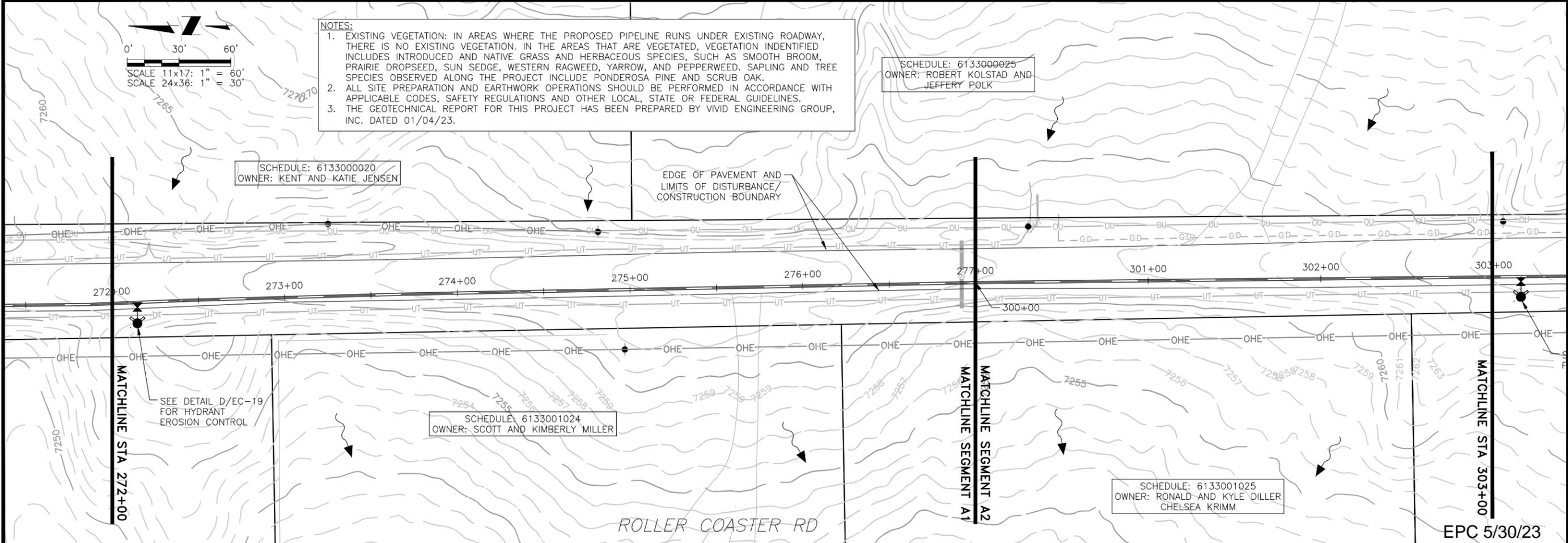
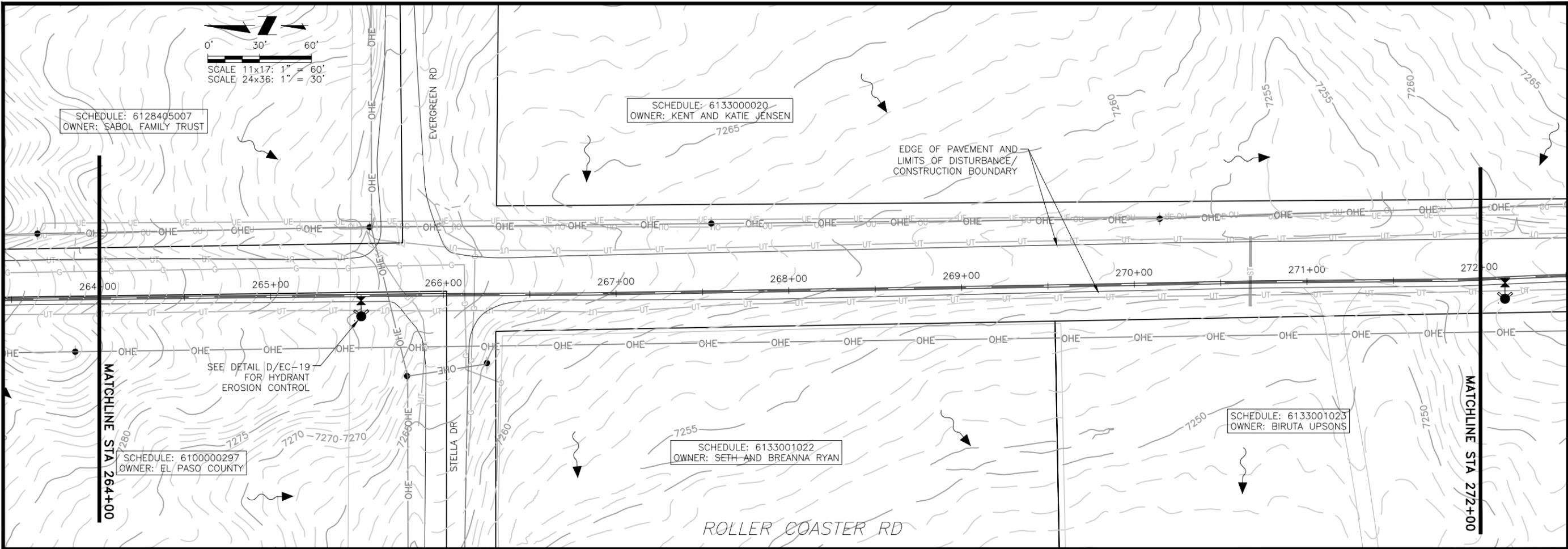


Project No.: 224.29  
Date: 04/28/23  
Design: GJD  
Drawn: SNH  
Check: MLD

EPC 5/30/23

**EC-05**  
SHEET --- OF ---

2023/04/28 2:21 PM By: Shelby Heule NA:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Bppstst - Roller Coaster\22429\_Seg\_A1&A2\_Erosion Control.dwg



**NOTES:**  
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 3. THE GEOTECHNICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY VIVID ENGINEERING GROUP, INC. DATED 01/04/23.

**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1 AND SEGMENT A2  
 EROSION CONTROL PLAN

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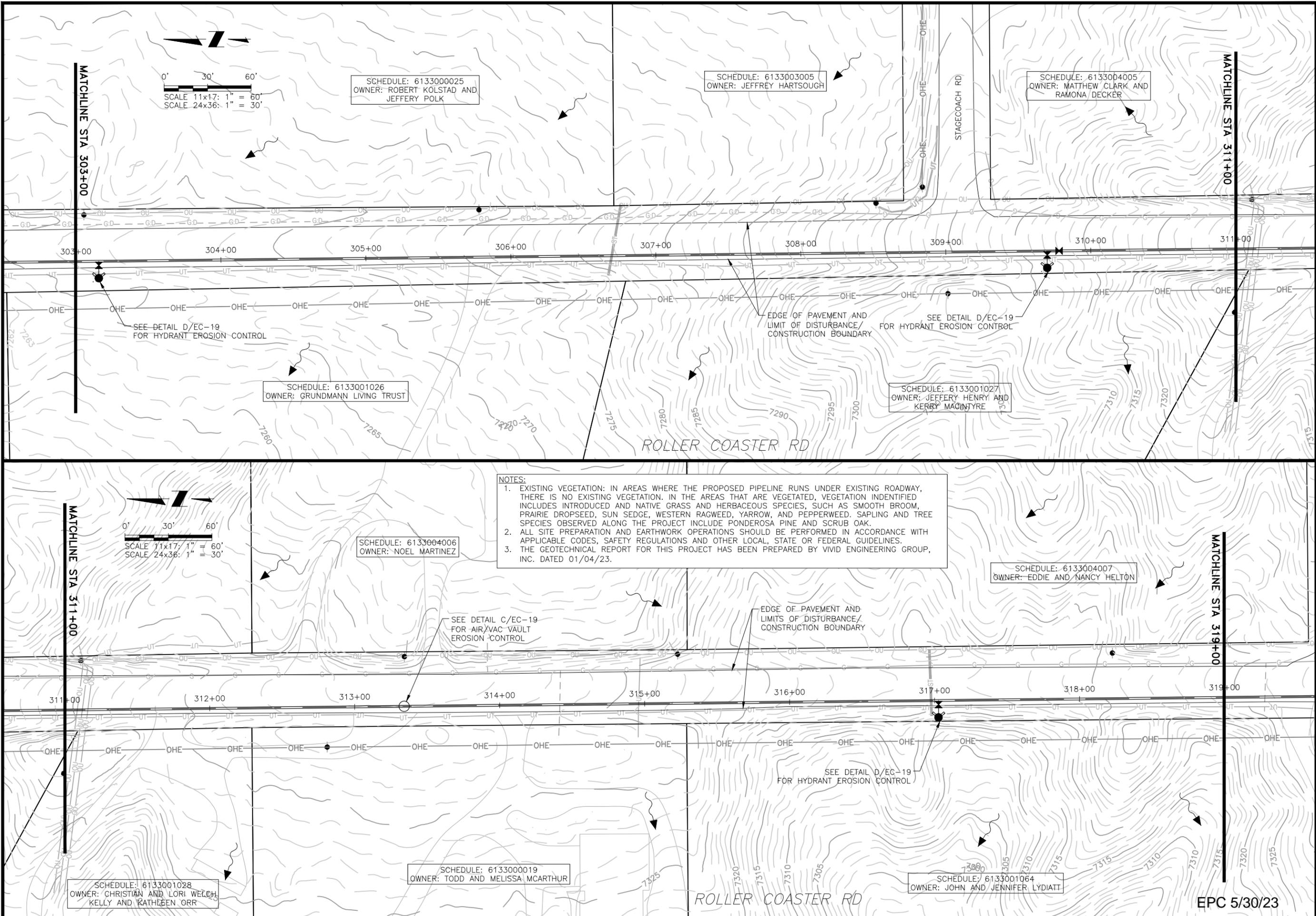


Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

**EC-06**  
 SHEET --- OF ---

EPC 5/30/23

2023/04/28 2:22 PM By: Shelby Heule NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_Seg\_A1&A2\_Erosion Control.dwg



SCHEDULE: 6133003005  
OWNER: JEFFREY HARTSOUGH

SCHEDULE: 6133004005  
OWNER: MATTHEW CLARK AND RAMONA DECKER

SCHEDULE: 6133001026  
OWNER: GRUNDMANN LIVING TRUST

SCHEDULE: 6133001027  
OWNER: JEFFREY HENRY AND KERRY MACINTYRE

SCHEDULE: 6133004006  
OWNER: NOEL MARTINEZ

SCHEDULE: 6133004007  
OWNER: EDDIE AND NANCY HELTON

SCHEDULE: 6133001028  
OWNER: CHRISTIAN AND LORI WELCH, KELLY AND KATHLEEN ORR

SCHEDULE: 6133000019  
OWNER: TODD AND MELISSA MCARTHUR

SCHEDULE: 6133001064  
OWNER: JOHN AND JENNIFER LYDIATT

**NOTES:**  
 1. EXISTING VEGETATION: IN AREAS WHERE THE PROPOSED PIPELINE RUNS UNDER EXISTING ROADWAY, THERE IS NO EXISTING VEGETATION. IN THE AREAS THAT ARE VEGETATED, VEGETATION IDENTIFIED INCLUDES INTRODUCED AND NATIVE GRASS AND HERBACEOUS SPECIES, SUCH AS SMOOTH BROOM, PRAIRIE DROPSIED, SUN SEDGE, WESTERN RAGWEED, YARROW, AND PEPPERWEED. SAPLING AND TREE SPECIES OBSERVED ALONG THE PROJECT INCLUDE PONDEROSA PINE AND SCRUB OAK.  
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**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A2  
 EROSION CONTROL PLAN

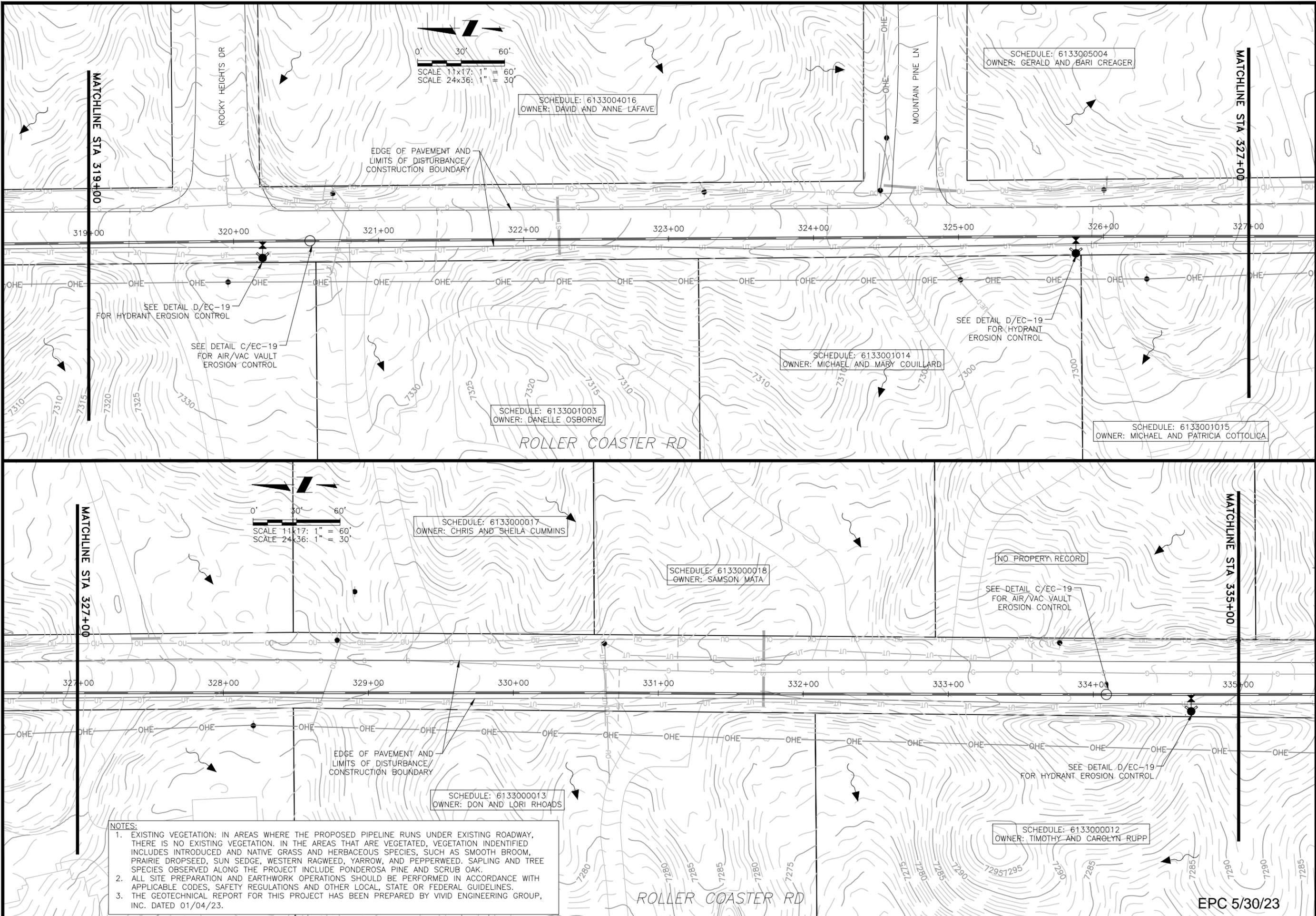
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Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

EPC 5/30/23

2023/04/28 2:23 PM By: Shelby Heule NA:Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_Seg\_A1&A2\_Erosion Control.dwg



**NOTES:**

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**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A2  
 EROSION CONTROL PLAN

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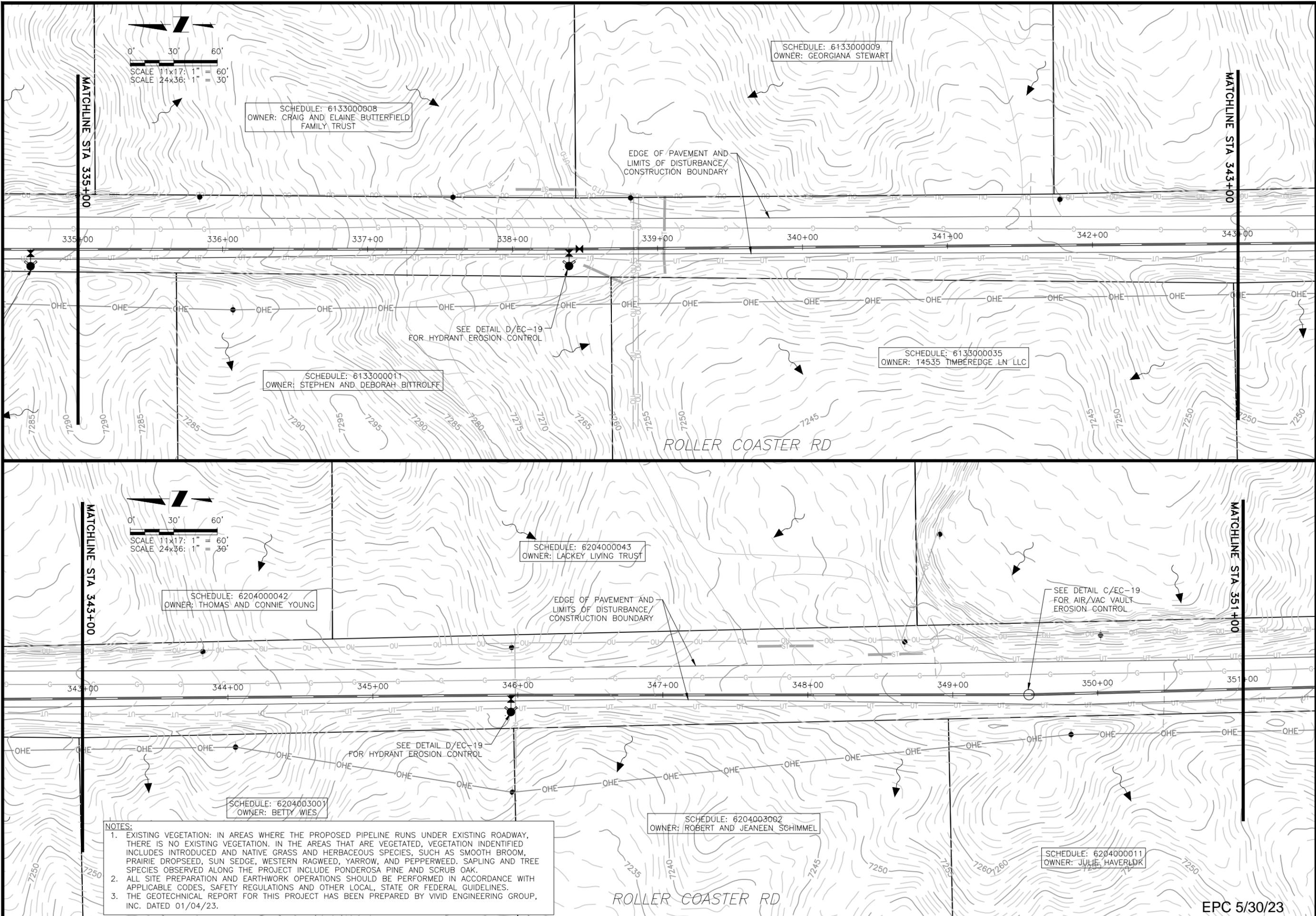


Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

**EC-08**  
 SHEET --- OF ---

EPC 5/30/23

2023/04/28 2:24 PM By: Shelby Heule NA:Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Bpittist - Roller Coaster\22429\_Seg\_A1&A2\_Erosion Control.dwg



**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A2  
 EROSION CONTROL PLAN

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**FOR CONSTRUCTION**

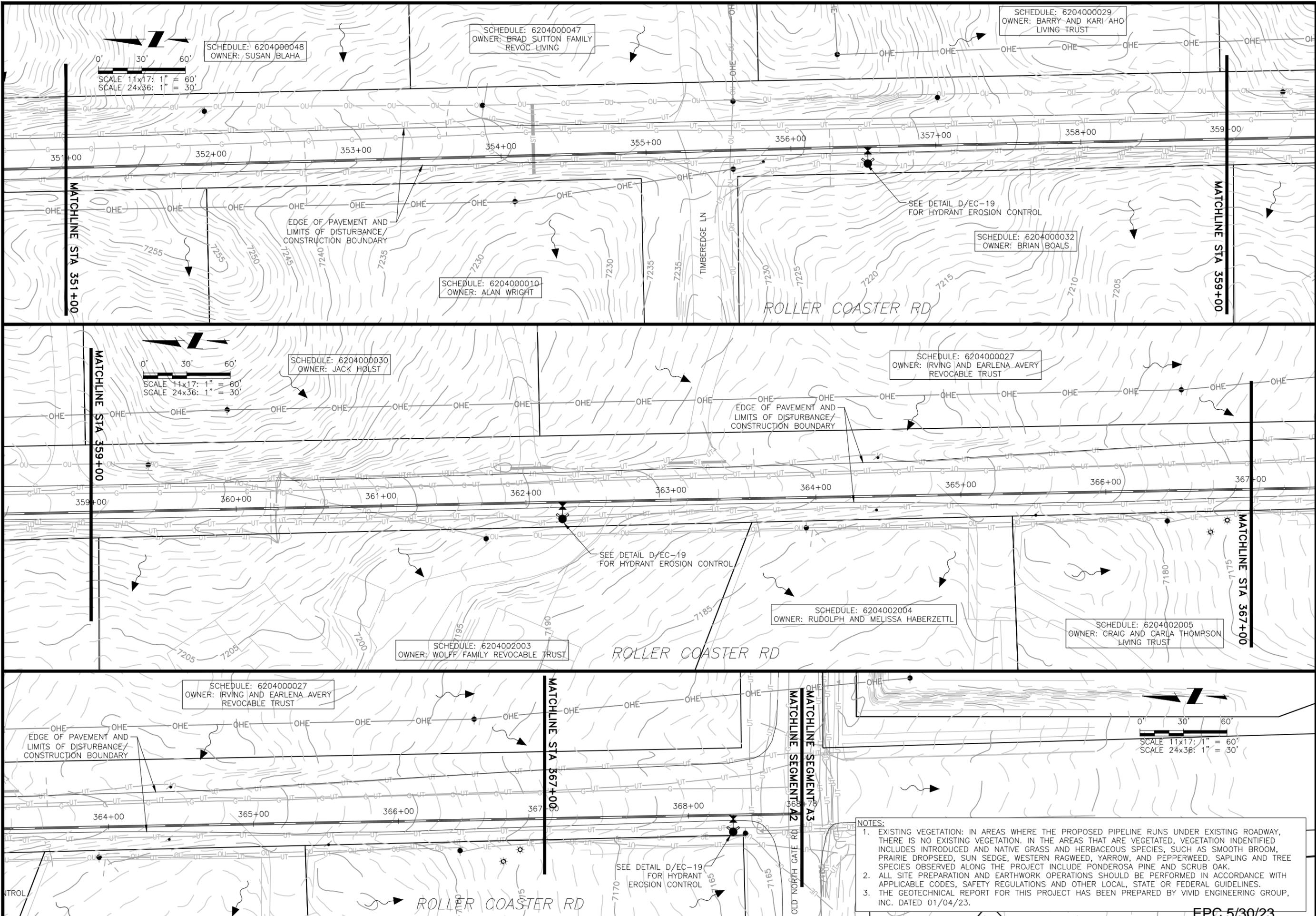


Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

**EC-09**  
 SHEET ---OF

EPC 5/30/23

2023/04/28 2:25 PM By: Shelby Heule NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Babbit - Roller Coaster\22429\_Seg\_A1&A2\_Erosion Control.dwg



**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A2  
 EROSION CONTROL PLAN

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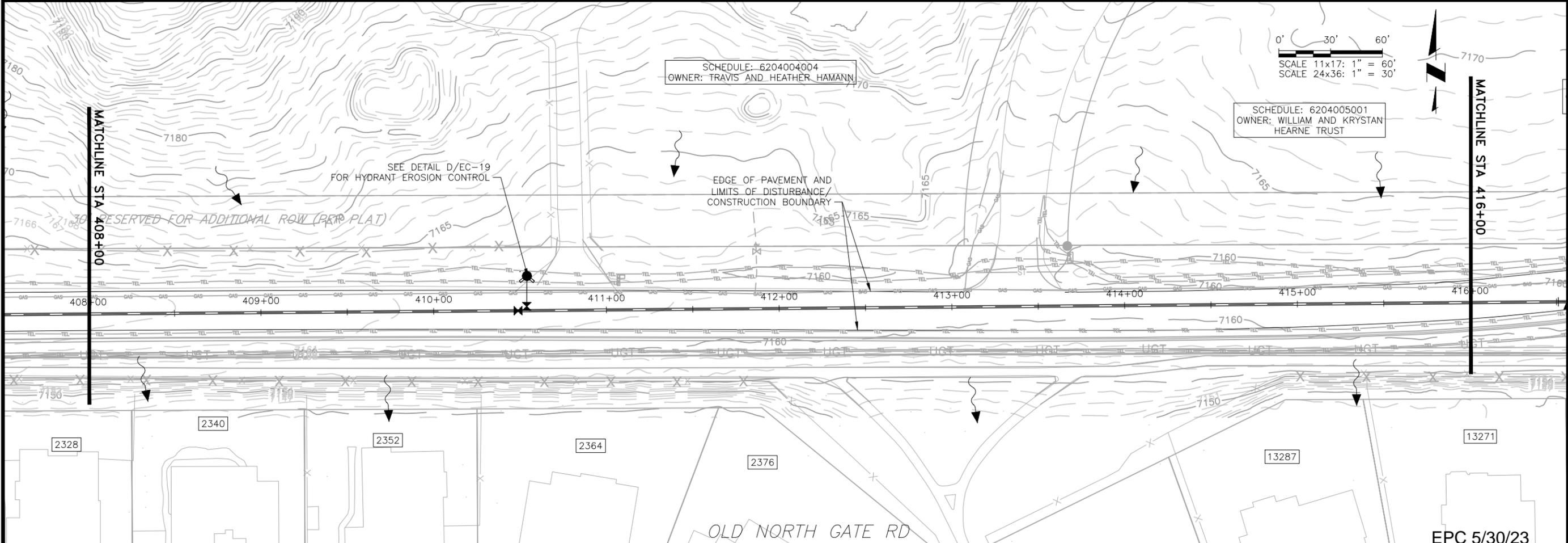
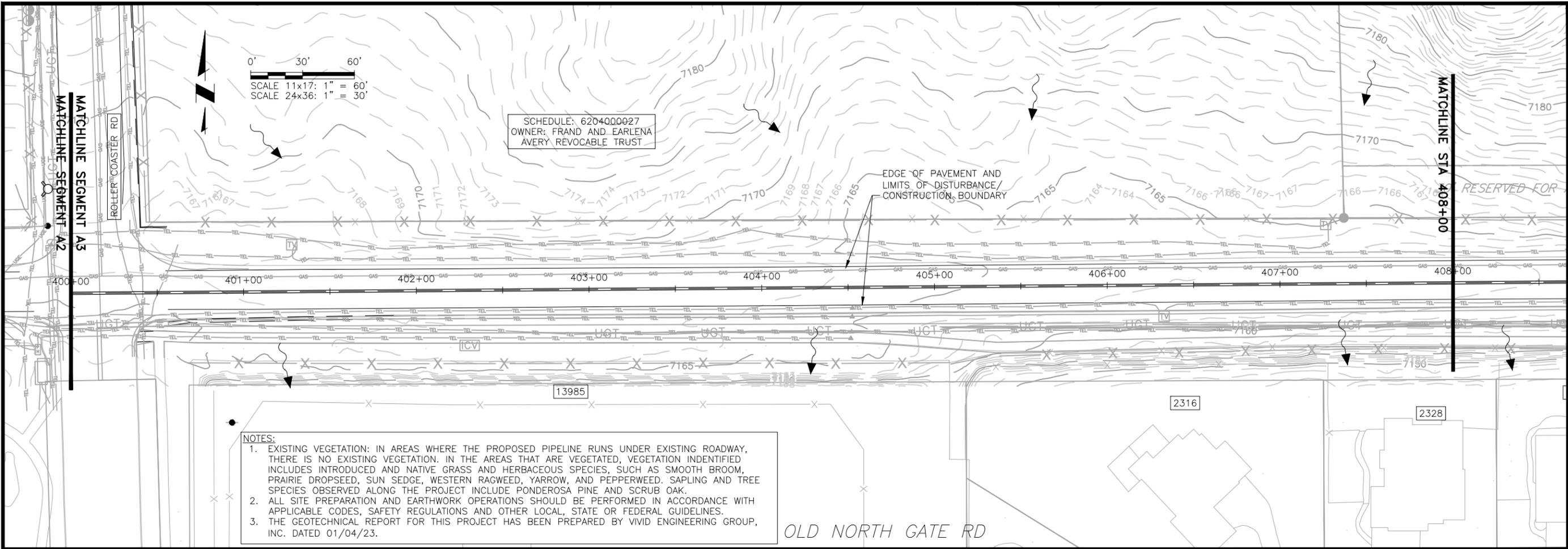
FOR CONSTRUCTION  
 Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

**EC-10**  
 SHEET --- OF ---

- NOTES:
- EXISTING VEGETATION: IN AREAS WHERE THE PROPOSED PIPELINE RUNS UNDER EXISTING ROADWAY, THERE IS NO EXISTING VEGETATION. IN THE AREAS THAT ARE VEGETATED, VEGETATION IDENTIFIED INCLUDES INTRODUCED AND NATIVE GRASS AND HERBACEOUS SPECIES, SUCH AS SMOOTH BROOM, PRAIRIE DROPSEED, SUN SEDGE, WESTERN RAGWEED, YARROW, AND PEPPERWEED. SAPLING AND TREE SPECIES OBSERVED ALONG THE PROJECT INCLUDE PONDEROSA PINE AND SCRUB OAK.
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  - THE GEOTECHNICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY VIVID ENGINEERING GROUP, INC. DATED 01/04/23.

FPC 5/30/23

2023/04/28 2:26 PM By: Shelby Heule N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Erosion Control.dwg



**NOTES:**  
 1. EXISTING VEGETATION: IN AREAS WHERE THE PROPOSED PIPELINE RUNS UNDER EXISTING ROADWAY, THERE IS NO EXISTING VEGETATION. IN THE AREAS THAT ARE VEGETATED, VEGETATION IDENTIFIED INCLUDES INTRODUCED AND NATIVE GRASS AND HERBACEOUS SPECIES, SUCH AS SMOOTH BROOM, PRAIRIE DROPSEED, SUN SEDGE, WESTERN RAGWEED, YARROW, AND PEPPERWEED. SAPLING AND TREE SPECIES OBSERVED ALONG THE PROJECT INCLUDE PONDEROSA PINE AND SCRUB OAK.  
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SEE DETAIL D/EC-19 FOR HYDRANT EROSION CONTROL

**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A3  
 EROSION CONTROL PLAN

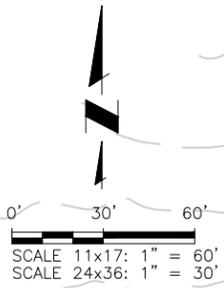
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FOR CONSTRUCTION

Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

**EC-11**  
 SHEET --- OF ---

EPC 5/30/23



**NOTES:**

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- THE GEOTECHNICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY VIVID ENGINEERING GROUP, INC. DATED 01/04/23. A SUPPLEMENTAL REPORT FOR THE HWY 83 CROSSING WAS ALSO PREPARED BY VIVID, DATED 01/04/23.

SCHEDULE: 6204000003  
OWNER: DAMOSA MONGE AND HORTENCIA GALAVIZ

SEE DETAIL D/EC-19 FOR HYDRANT EROSION CONTROL

SEE DETAIL C/EC-19 FOR AIR/VAC VAULT EROSION CONTROL

SCHEDULE: 6204005001  
OWNER: WILLIAM AND KRYSTAN HEARNE TRUST

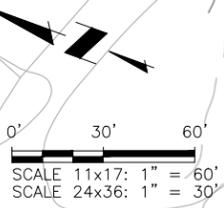
EDGE OF PAVEMENT AND LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

SCHEDULE: 6204000004  
OWNER: BARNETT FAMILY TRUST

MATCHLINE STA 416+00

MATCHLINE STA 424+00

OLD NORTH GATE RD



SCHEDULE: 6204000002  
OWNER: HARRY & SUSAN DIREEN

PP SILT FENCE AROUND STORM PIPE INLET (APPROX 43 LF.) SEE DETAIL A/EC-18

SEE DETAIL D/EC-19 FOR HYDRANT EROSION CONTROL

10'X15' BORE PIT LOCATION  
PP SILT FENCE (APPROX 128 LF.) SEE DETAIL A/EC-18

GENERAL UTILITY EASEMENT

SCHEDULE: 6203000001  
OWNER: DEAN A STOECCKER TRUST

PP EROSION CONTROL SOCKS (TYP 2 STA 424+00 TO STA 432+00) SEE DETAIL B/EC-18

CONSTRUCTION BOUNDARY/ LIMITS OF DISTURBANCE

TEMPORARY CONSTRUCTION EASEMENT

MATCHLINE STA 424+00

MATCHLINE STA 432+00

OLD NORTH GATE RD/ HWY 83

EPC 5/30/23

**JDS-HYDRO** a Division of **RESPEC**  
5540 TECH CENTER DR SUITE 100  
COLORADO SPRINGS, COLORADO 80919  
(719) 227-0072

TRIVIEW METROPOLITAN DISTRICT  
NORTHERN DELIVERY SYSTEM  
SEGMENT A3  
EROSION CONTROL PLAN

NO.	DESCRIPTION	BY	DATE
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FOR CONSTRUCTION

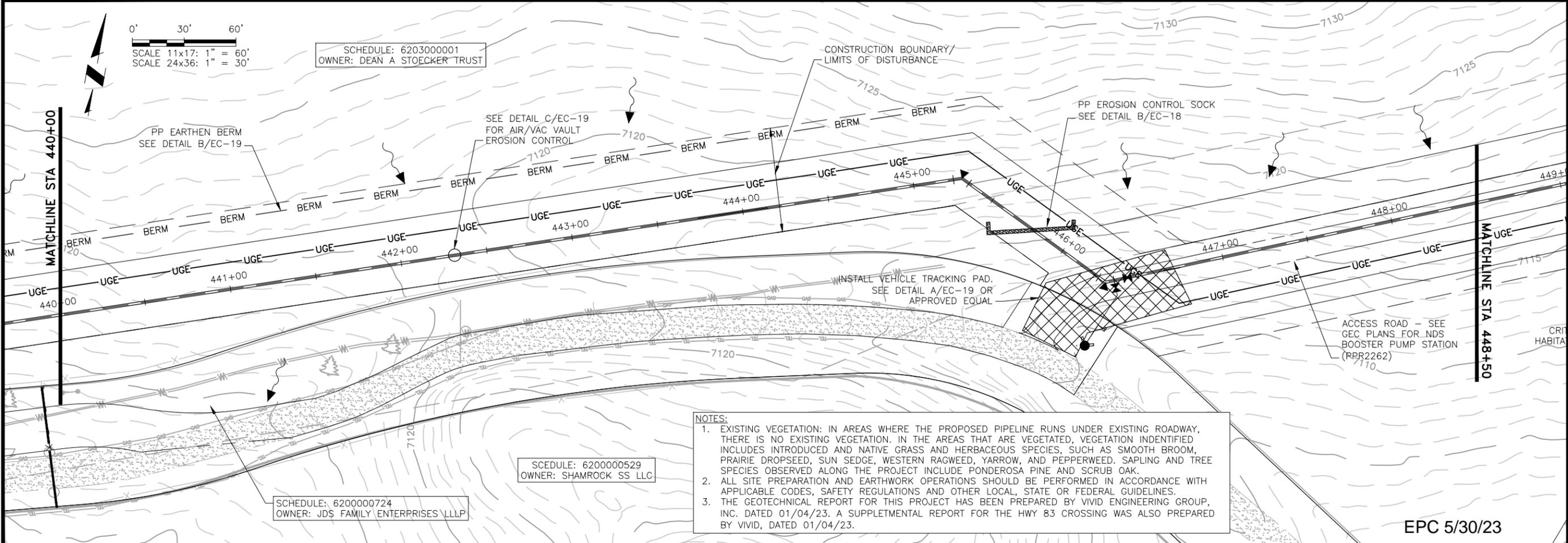
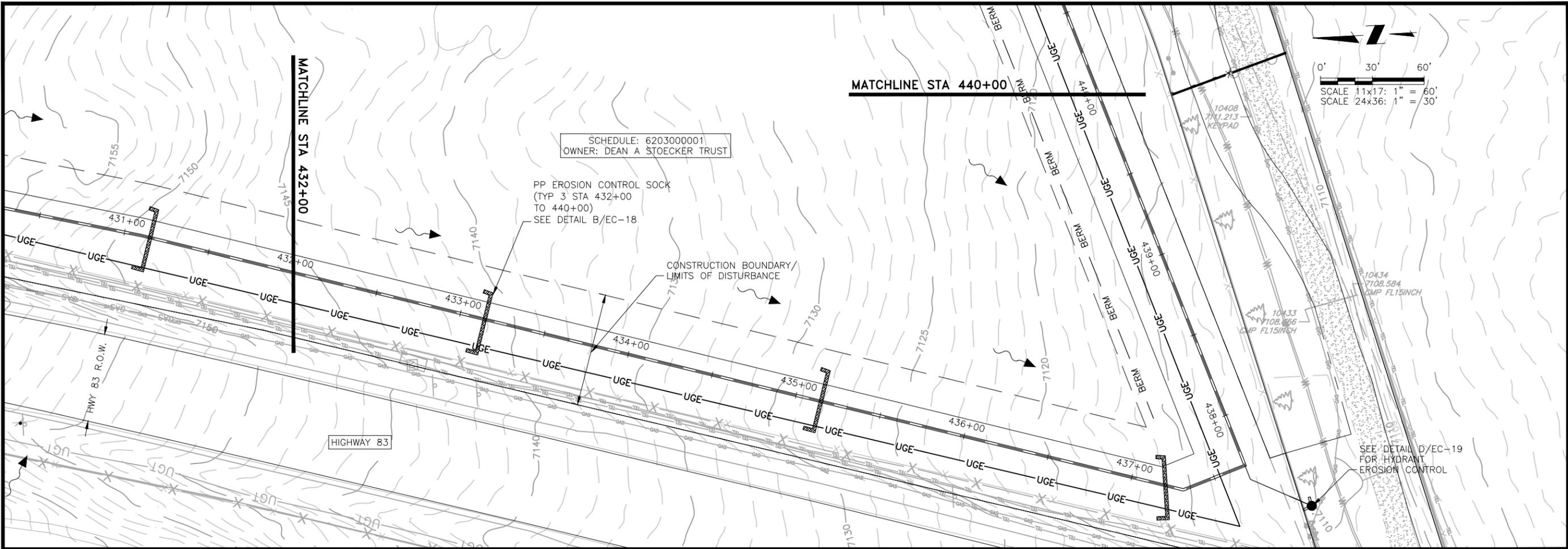


Project No.: 224.29  
Date: 04/28/23  
Design: GJD  
Drawn: SNH  
Check: MLD

EC-12  
SHEET --- OF ---

2023/04/28 2:27 PM By: Shelby Heule N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Erosion Control.dwg

2023/04/28 2:27 PM By: Shelby Heule NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Erosion Control.dwg



SCHEDULE: 6203000001  
OWNER: DEAN A STOECKER TRUST

PP EROSION CONTROL SOCK  
(TYP 3 STA 432+00  
TO 440+00)  
SEE DETAIL B/EC-18

CONSTRUCTION BOUNDARY/  
LIMITS OF DISTURBANCE

HIGHWAY 83

SEE DETAIL D/EC-19  
FOR HYDRANT  
EROSION CONTROL

SCALE 11x17: 1" = 60'  
SCALE 24x36: 1" = 30'

SCHEDULE: 6203000001  
OWNER: DEAN A STOECKER TRUST

PP EARTHEN BERM  
SEE DETAIL B/EC-19

SEE DETAIL C/EC-19  
FOR AIR/VAC VAULT  
EROSION CONTROL

CONSTRUCTION BOUNDARY/  
LIMITS OF DISTURBANCE

PP EROSION CONTROL SOCK  
SEE DETAIL B/EC-18

INSTALL VEHICLE TRACKING PAD.  
SEE DETAIL A/EC-19 OR  
APPROVED EQUAL

ACCESS ROAD - SEE  
GEC PLANS FOR NDS  
BOOSTER PUMP STATION  
(PPR2262)

SCHEDULE: 6200000724  
OWNER: JDS FAMILY ENTERPRISES LLLP

SCHEDULE: 6200000529  
OWNER: SHAMROCK SS LLC

- NOTES:**
- EXISTING VEGETATION: IN AREAS WHERE THE PROPOSED PIPELINE RUNS UNDER EXISTING ROADWAY, THERE IS NO EXISTING VEGETATION. IN THE AREAS THAT ARE VEGETATED, VEGETATION IDENTIFIED INCLUDES INTRODUCED AND NATIVE GRASS AND HERBACEOUS SPECIES, SUCH AS SMOOTH BROOM, PRAIRIE DROPSIED, SUN SEDGE, WESTERN RAGWEED, YARROW, AND PEPPERWEED. SAPLING AND TREE SPECIES OBSERVED ALONG THE PROJECT INCLUDE PONDEROSA PINE AND SCRUB OAK.
  - ALL SITE PREPARATION AND EARTHWORK OPERATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH APPLICABLE CODES, SAFETY REGULATIONS AND OTHER LOCAL, STATE OR FEDERAL GUIDELINES.
  - THE GEOTECHNICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY VIVID ENGINEERING GROUP, INC. DATED 01/04/23. A SUPPLEMENTAL REPORT FOR THE HWY 83 CROSSING WAS ALSO PREPARED BY VIVID, DATED 01/04/23.

EPC 5/30/23

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5540 TECH CENTER DR SUITE 100  
COLORADO SPRINGS, COLORADO 80919  
(719) 227-0072

DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

TRIVIEW METROPOLITAN DISTRICT  
NORTHERN DELIVERY SYSTEM  
SEGMENT A3  
EROSION CONTROL PLAN

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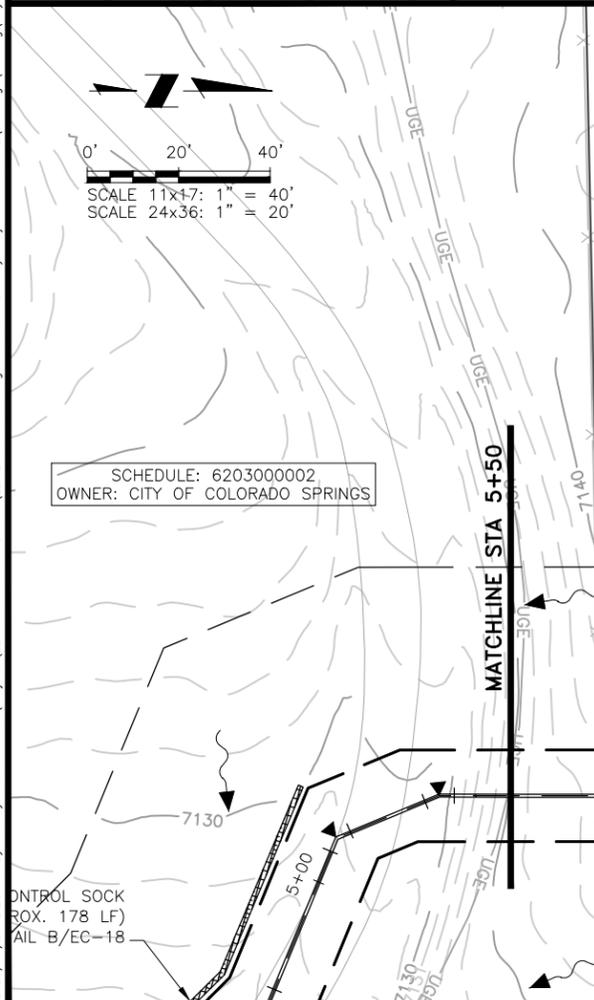
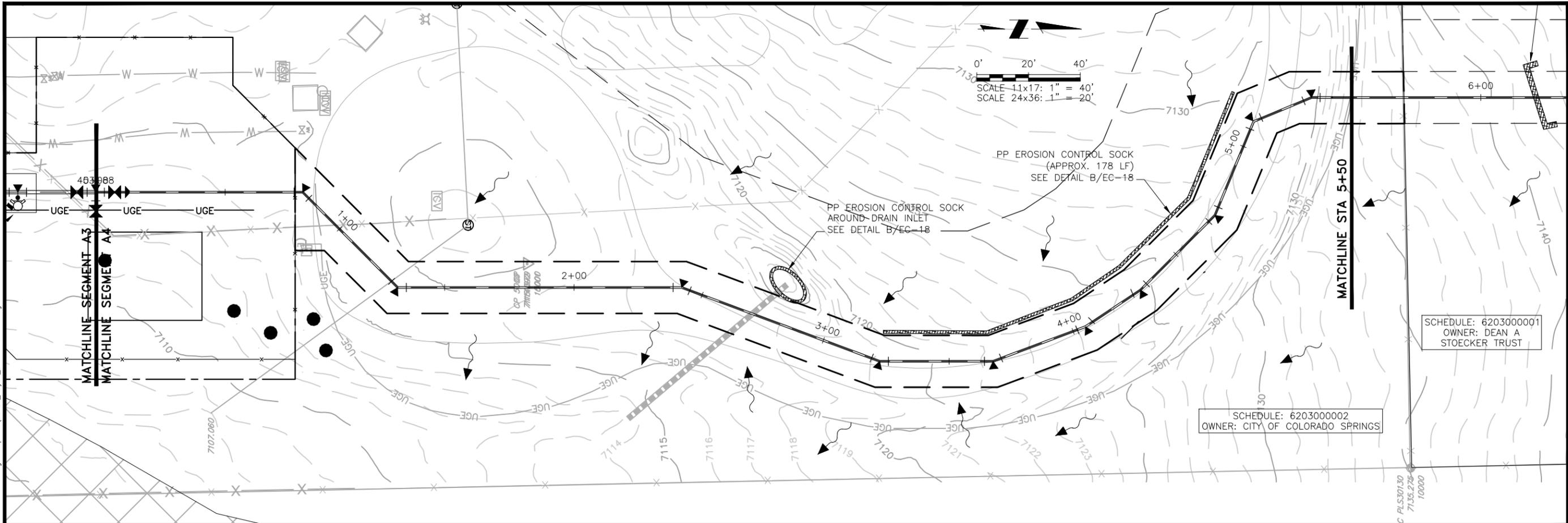
FOR CONSTRUCTION



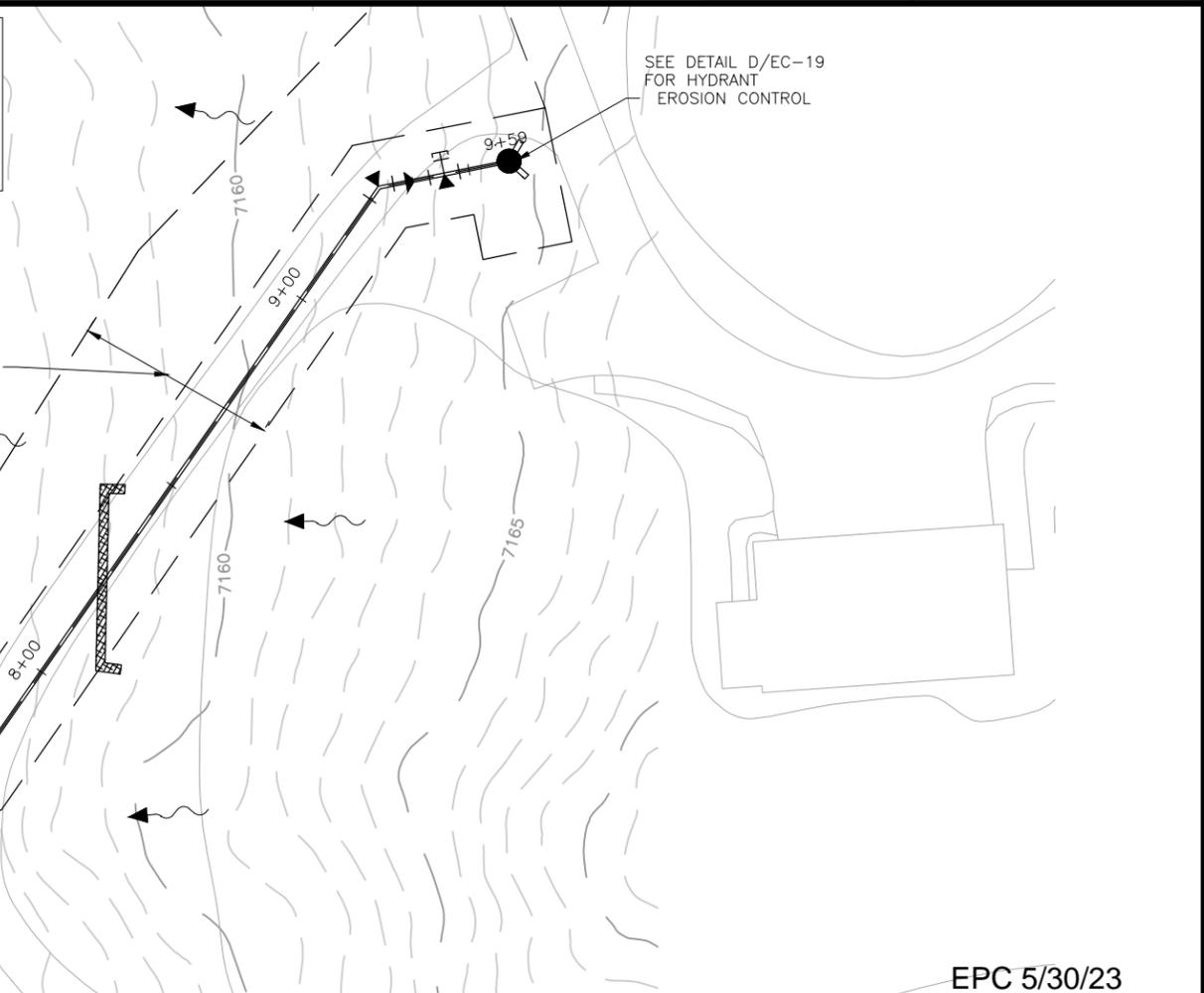
Project No.: 224.29  
Date: 04/28/23  
Design: GJD  
Drawn: SNH  
Check: MLD

EC-13  
SHEET --- OF ---

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- NOTES:**
1. EXISTING VEGETATION: VEGETATION IDENTIFIED INCLUDES INTRODUCED AND NATIVE GRASS AND HERBACEOUS SPECIES, SUCH AS SMOOTH BROME, PRAIRIE DROPSEED, SUN SEDGE, WESTERN RAGWEED, YARROW, AND PEPPERWEED. SAPLING AND TREE SPECIES OBSERVED ALONG THE PROJECT INCLUDE PONDEROSA PINE AND SCRUB OAK.
  2. ALL SITE PREPARATION AND EARTHWORK OPERATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH APPLICABLE CODES, SAFETY REGULATIONS AND OTHER LOCAL, STATE OR FEDERAL GUIDELINES.
  3. THE GEOTECHNICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY VIVID ENGINEERING GROUP, INC. DATED 01/04/23.



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 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A4  
 EROSION CONTROL PLAN

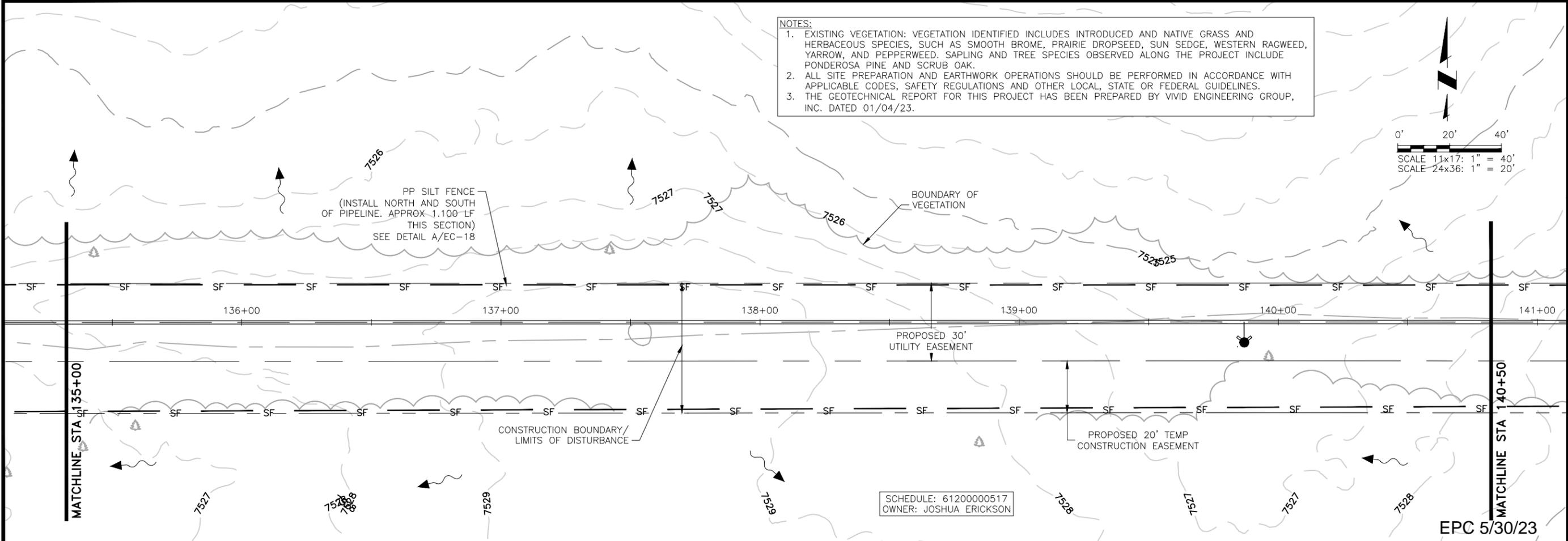
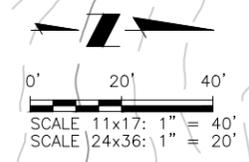
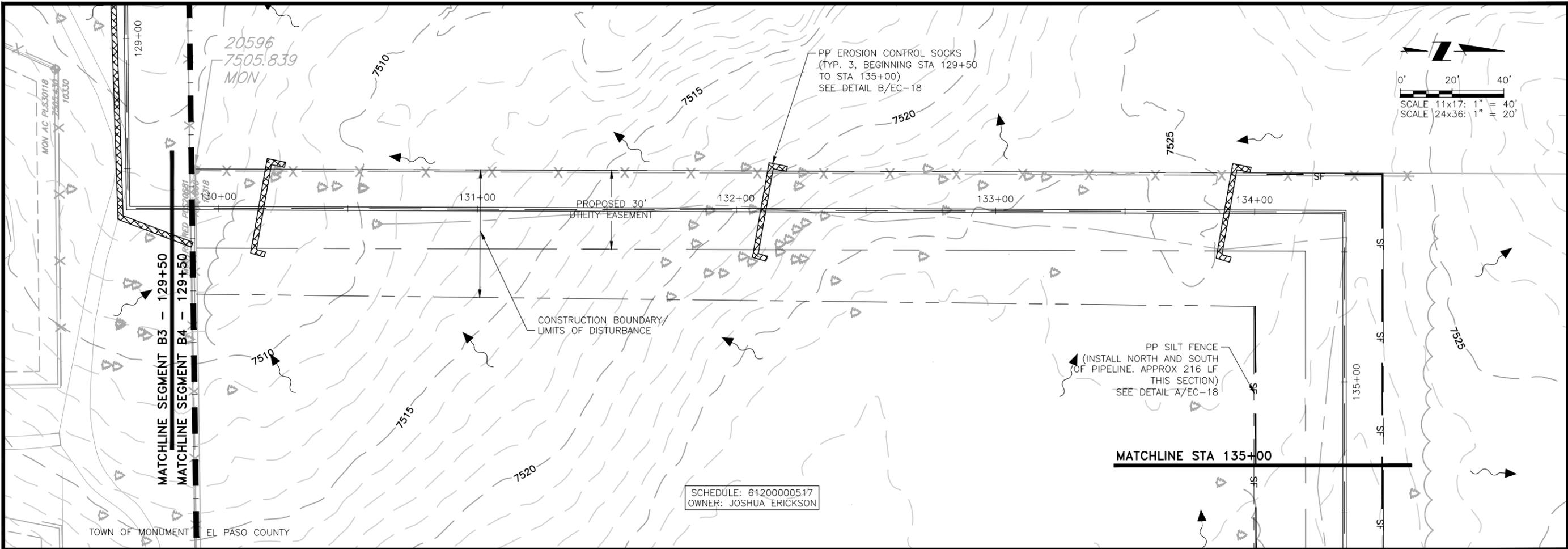
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Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

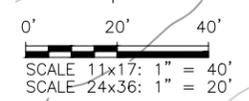
EPC 5/30/23

2023/04/28 2:29 PM By: Shelby Heule NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B\22429\_Seg\_B\_North\_Erosion\_Control.dwg



NOTES:

- EXISTING VEGETATION: VEGETATION IDENTIFIED INCLUDES INTRODUCED AND NATIVE GRASS AND HERBACEOUS SPECIES, SUCH AS SMOOTH BROME, PRAIRIE DROPSEED, SUN SEDGE, WESTERN RAGWEED, YARROW, AND PEPPERWEED. SAPLING AND TREE SPECIES OBSERVED ALONG THE PROJECT INCLUDE PONDEROSA PINE AND SCRUB OAK.
- ALL SITE PREPARATION AND EARTHWORK OPERATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH APPLICABLE CODES, SAFETY REGULATIONS AND OTHER LOCAL, STATE OR FEDERAL GUIDELINES.
- THE GEOTECHNICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY VIVID ENGINEERING GROUP, INC. DATED 01/04/23.



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COLORADO SPRINGS, COLORADO 80919  
(719) 227-0072

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TRIVIEW METROPOLITAN DISTRICT  
NORTHERN DELIVERY SYSTEM  
SEGMENT B4  
EROSION CONTROL PLAN

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FOR CONSTRUCTION

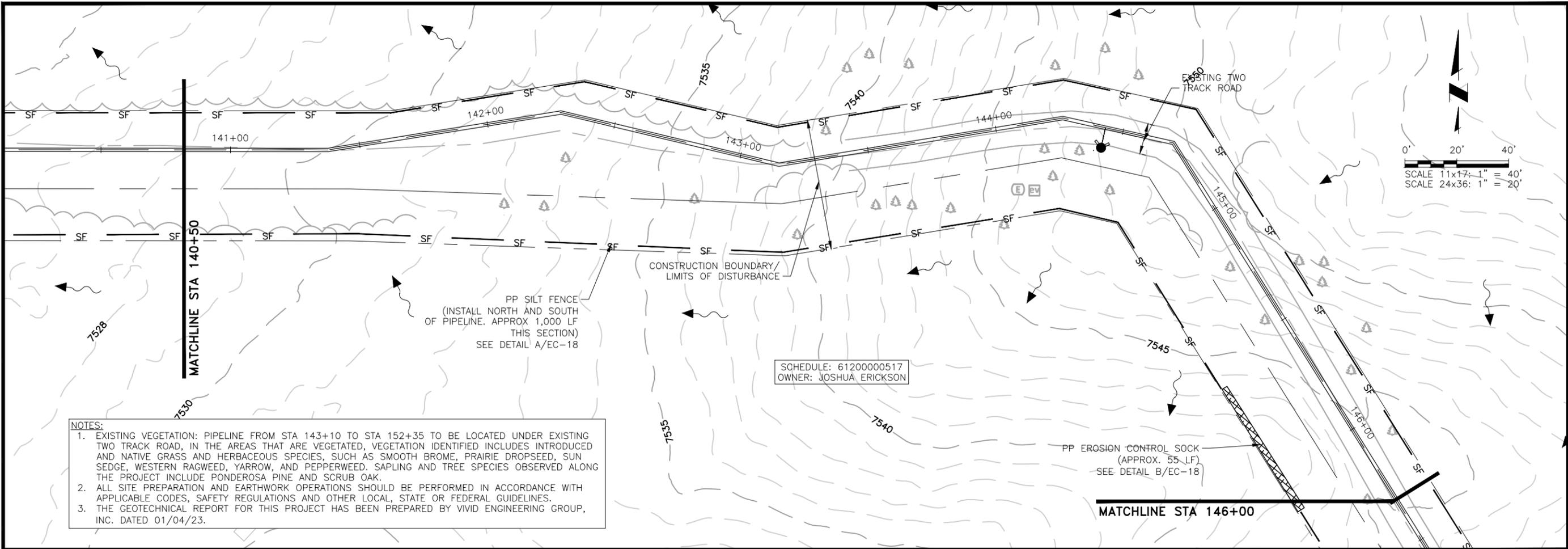


Project No.: 224.29  
Date: 04/28/23  
Design: GJD  
Drawn: SNH  
Check: MLD

EC-15  
SHEET --- OF ---

EPC 5/30/23

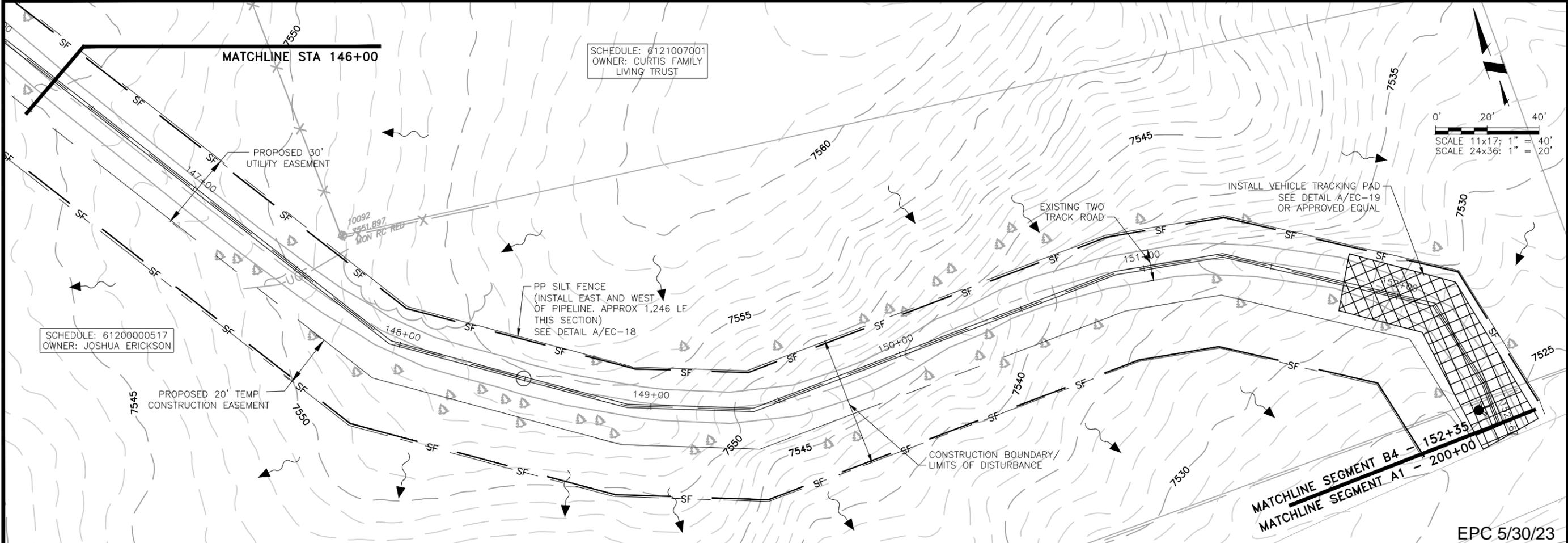
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- NOTES:**
- EXISTING VEGETATION: PIPELINE FROM STA 143+10 TO STA 152+35 TO BE LOCATED UNDER EXISTING TWO TRACK ROAD, IN THE AREAS THAT ARE VEGETATED, VEGETATION IDENTIFIED INCLUDES INTRODUCED AND NATIVE GRASS AND HERBACEOUS SPECIES, SUCH AS SMOOTH BROME, PRAIRIE DROPSIED, SUN SEDGE, WESTERN RAGWEED, YARROW, AND PEPPERWEED. SAPLING AND TREE SPECIES OBSERVED ALONG THE PROJECT INCLUDE PONDEROSA PINE AND SCRUB OAK.
  - ALL SITE PREPARATION AND EARTHWORK OPERATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH APPLICABLE CODES, SAFETY REGULATIONS AND OTHER LOCAL, STATE OR FEDERAL GUIDELINES.
  - THE GEOTECHNICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY VIVID ENGINEERING GROUP, INC. DATED 01/04/23.

SCHEDULE: 6120000517  
OWNER: JOSHUA ERICKSON

SCHEDULE: 6121007001  
OWNER: CURTIS FAMILY LIVING TRUST



SCHEDULE: 6120000517  
OWNER: JOSHUA ERICKSON

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 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

**TRIVIEW METROPOLITAN DISTRICT**  
**NORTHERN DELIVERY SYSTEM**  
**SEGMENT B4**  
**EROSION CONTROL PLAN**

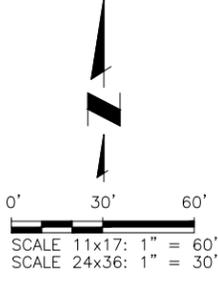
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Project No.: 224.29  
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 Design: GJD  
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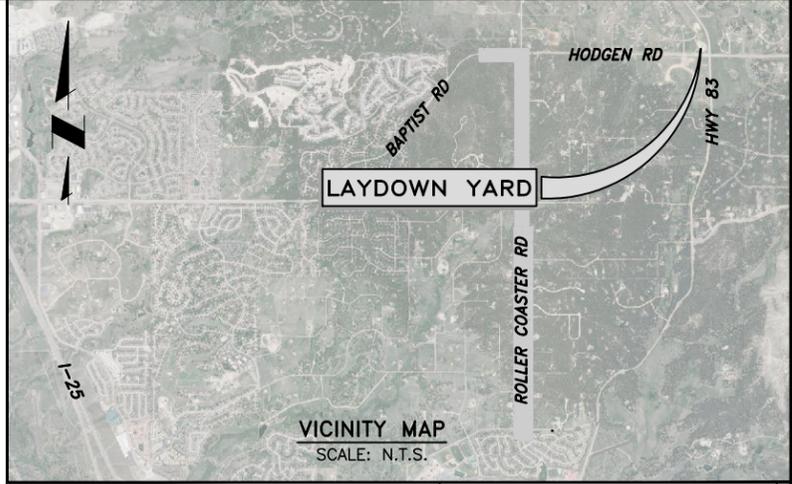
EPC 5/30/23

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 2023/04/28 2:31 PM By: Shelby Heule

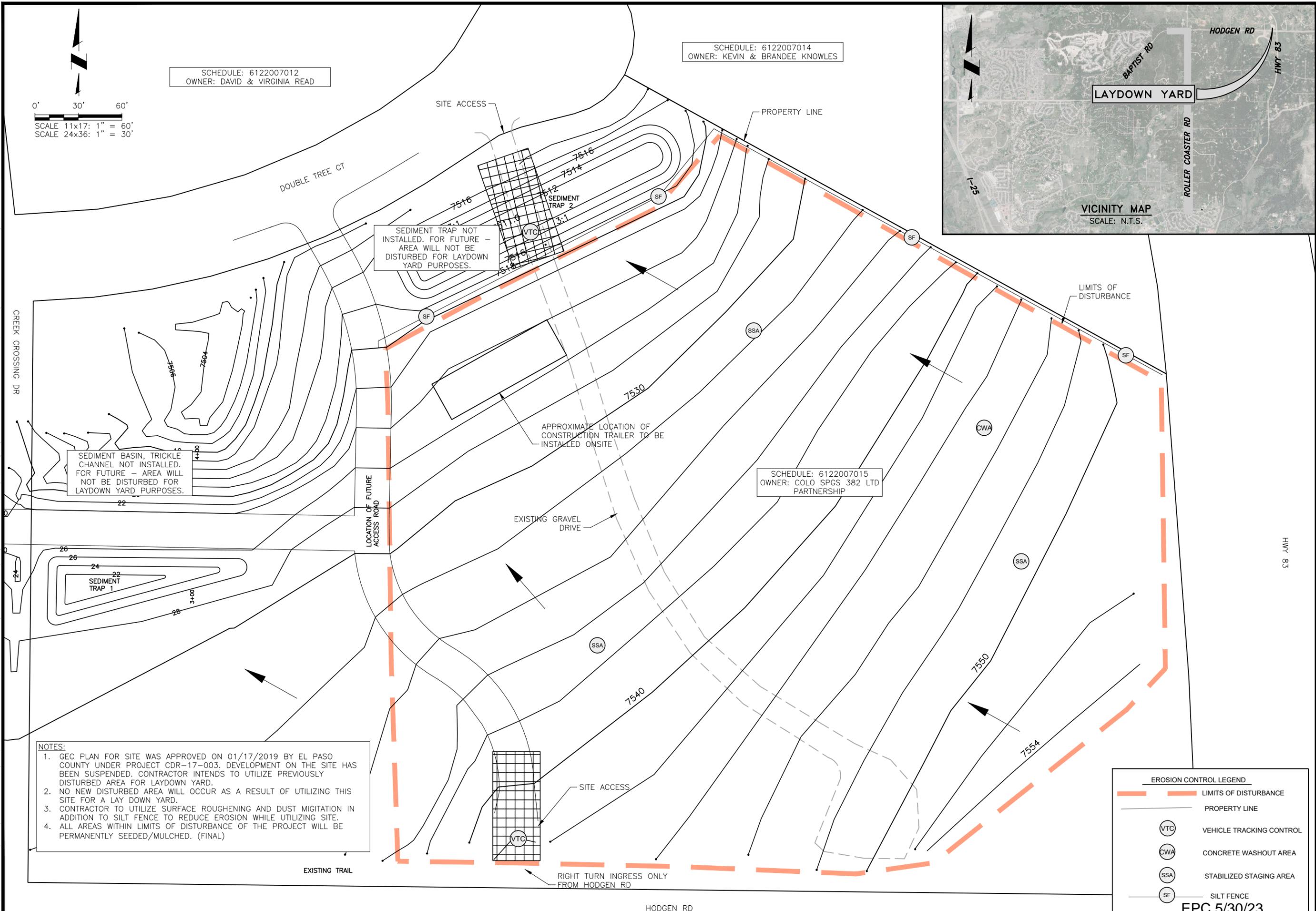


SCHEDULE: 6122007012  
OWNER: DAVID & VIRGINIA READ

SCHEDULE: 6122007014  
OWNER: KEVIN & BRANDEE KNOWLES



**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072  
REGULATIONS: THE OPERATOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.



SEDIMENT BASIN, TRICKLE CHANNEL NOT INSTALLED. FOR FUTURE - AREA WILL NOT BE DISTURBED FOR LAYDOWN YARD PURPOSES.

SEDIMENT TRAP NOT INSTALLED. FOR FUTURE - AREA WILL NOT BE DISTURBED FOR LAYDOWN YARD PURPOSES.

SCHEDULE: 6122007015  
OWNER: COLO SPGS 382 LTD PARTNERSHIP

**NOTES:**

- GEC PLAN FOR SITE WAS APPROVED ON 01/17/2019 BY EL PASO COUNTY UNDER PROJECT CDR-17-003. DEVELOPMENT ON THE SITE HAS BEEN SUSPENDED. CONTRACTOR INTENDS TO UTILIZE PREVIOUSLY DISTURBED AREA FOR LAYDOWN YARD.
- NO NEW DISTURBED AREA WILL OCCUR AS A RESULT OF UTILIZING THIS SITE FOR A LAY DOWN YARD.
- CONTRACTOR TO UTILIZE SURFACE ROUGHENING AND DUST MITIGATION IN ADDITION TO SILT FENCE TO REDUCE EROSION WHILE UTILIZING SITE.
- ALL AREAS WITHIN LIMITS OF DISTURBANCE OF THE PROJECT WILL BE PERMANENTLY SEEDED/MULCHED. (FINAL)

EROSION CONTROL LEGEND	
	LIMITS OF DISTURBANCE
	PROPERTY LINE
	VEHICLE TRACKING CONTROL
	CONCRETE WASHOUT AREA
	STABILIZED STAGING AREA
	SILT FENCE

TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 LAYDOWN YARD PLAN

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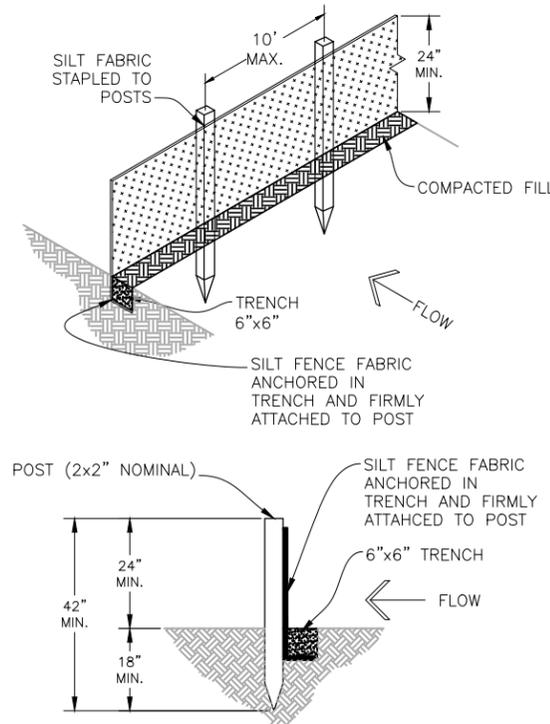
FOR CONSTRUCTION



Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

**EC-17**  
 SHEET --- OF ---

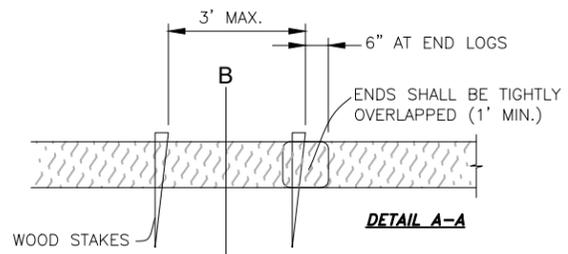
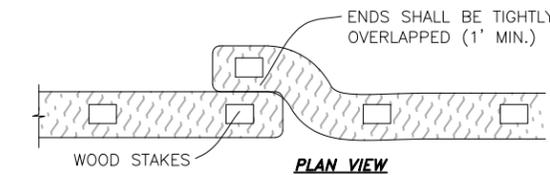
2023/04/28 2:31 PM By: Shelby Heule NA:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Erosion\_Control.dwg



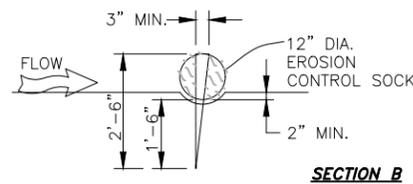
- INSTALLATION REQUIREMENTS:**
- SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
  - WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.
  - METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
  - THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.
  - WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3" ABOVE THE ORIGINAL GROUND SURFACE.
  - ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.
  - THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES; HIGHER FENCES MAY INPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

- MAINTENANCE REQUIREMENTS:**
- CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.
  - SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.
  - SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED.

**A SILT FENCE DETAIL**  
EC-18 SCALE: N.T.S.

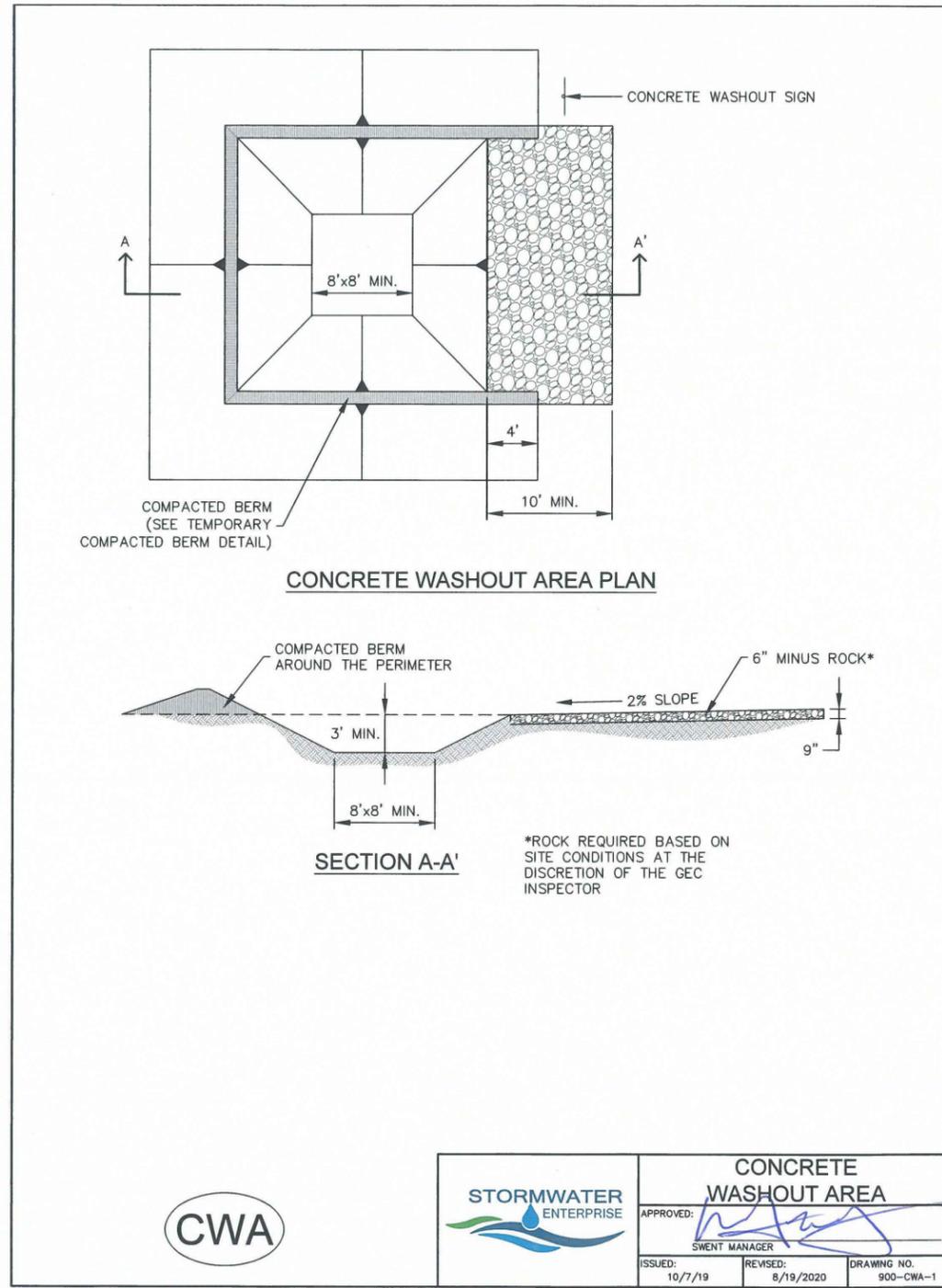


- EROSION CONTROL SOCK INSTALLATION NOTES**
- SEE PLAN VIEW FOR THE LOCATION AND LENGTH OF EROSION CONTROL SOCK.
  - EROSION CONTROL SOCKS INDICATED ON THE PLANS SHALL BE INSTALLED AFTER ANY LAND-DISTURBING ACTIVITIES OCCUR.
  - EROSION CONTROL SOCKS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, COCONUT FIBER OR APPROVED EQUAL.
  - NOT FOR USE IN CONCENTRATED FLOW AREAS.
  - THE EROSION CONTROL SOCK SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1/2 OF THE DIAMETER OF THE ECS.



- EROSION CONTROL SOCK MAINTENANCE NOTES**
- CONTRACTOR SHALL INSPECT EROSION CONTROL SOCKS DAILY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
  - SEDIMENT ACCUMULATED UPSTREAM OF EROSION CONTROL SOCKS SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 1/2 THE HEIGHT OF THE CREST OF LOG.
  - EROSION CONTROL SOCKS SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE OWNER.

**B EROSION CONTROL SOCK**  
EC-18 SCALE: N.T.S.



**STORMWATER ENTERPRISE**

**CONCRETE WASHOUT AREA**

APPROVED: *[Signature]*

SWENT MANAGER

ISSUED: 10/7/19    REVISED: 8/19/2020    DRAWING NO. 900-CWA-1

**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072  
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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 EROSION CONTROL NOTES AND DETAILS

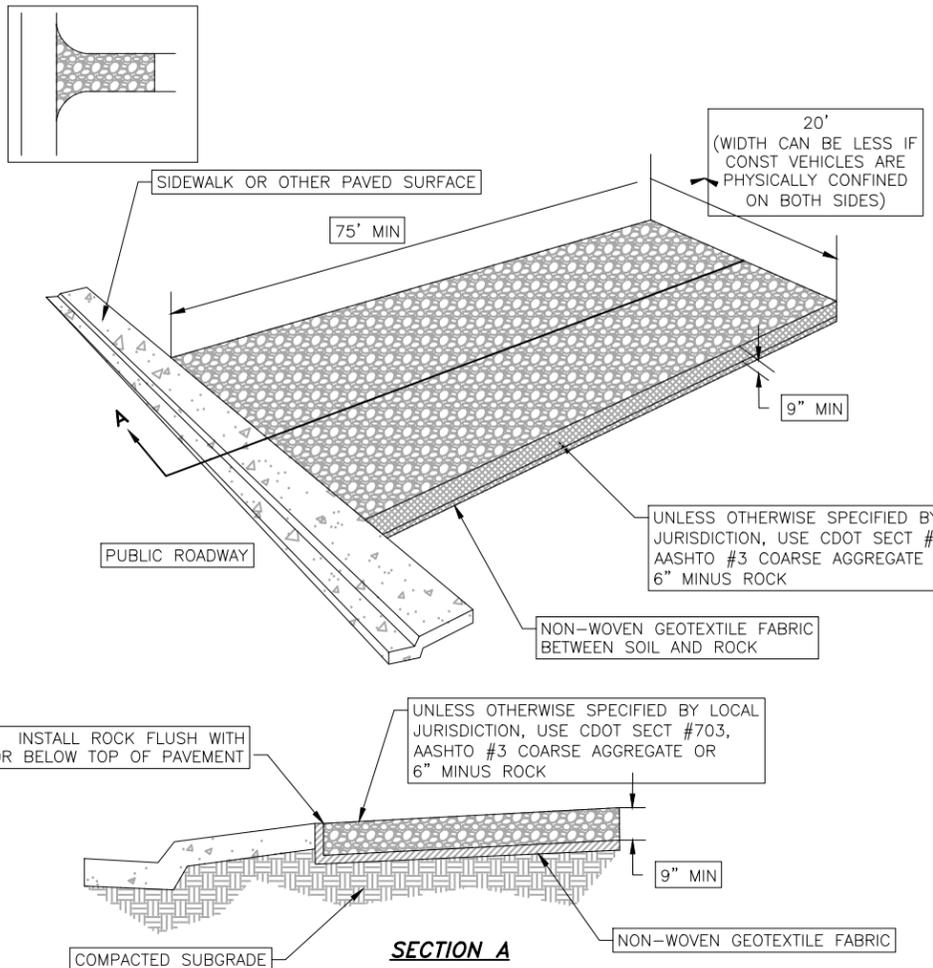
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Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

**EC-18**  
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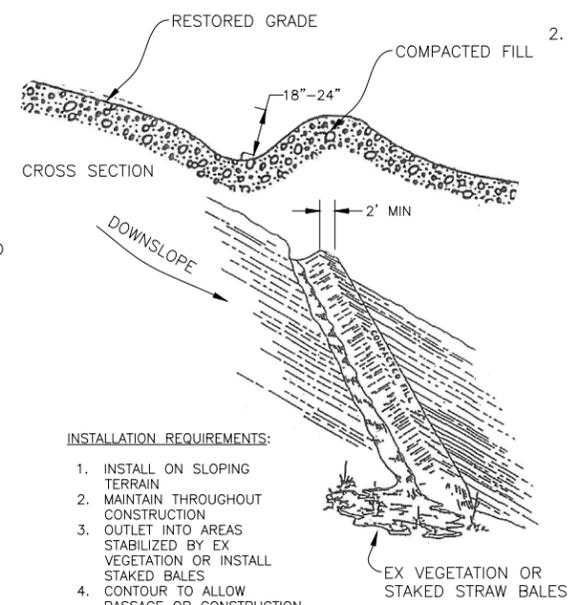
2023/04/28 2:31 PM By: Shelby Heule NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Erosion\_Control.dwg



**A VEHICLE TRACKING PAD DETAIL**  
**EC-19** SCALE: N.T.S.

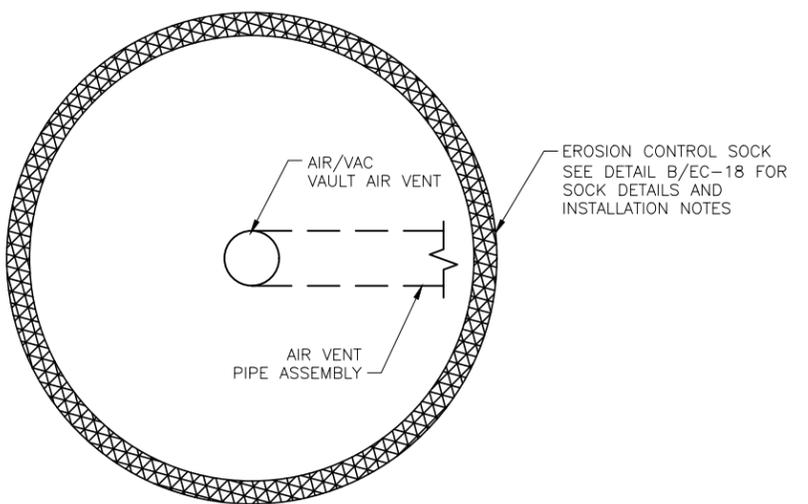
- STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES:**
1. SEE PLAN VIEW FOR LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
  2. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHTS-OF-WAY.
  3. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.
  4. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
  5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

- STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES:**
1. INSPECT VEHICLE TRACKING PAD EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT VEHICLE TRACKING PAD 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 VEHICLE TRACKING PAD IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  3. WHERE VEHICLE TRACKING PAD HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
  5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.
  6. STABILIZED ENTRANCE IS TO BE REMOVED WHEN THERE IS NO LONGER THE POTENTIAL FOR VEHICLE TRACKING. WHEN A CONSTRUCTION ENTRANCE/EXIT IS REMOVED, EXCESS SEDIMENT FOR THE AGGREGATE TO BE REMOVED AND DISPOSED OF APPROPRIATELY.

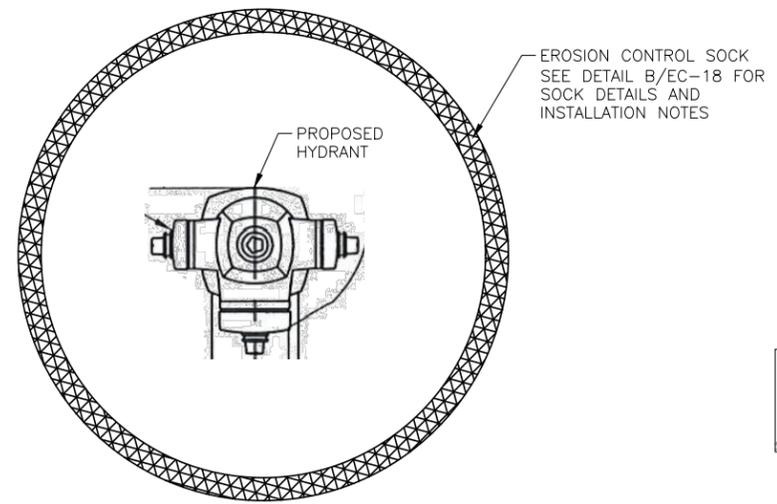


**B EARTHEN BERM**  
**EC-19** SCALE: N.T.S.

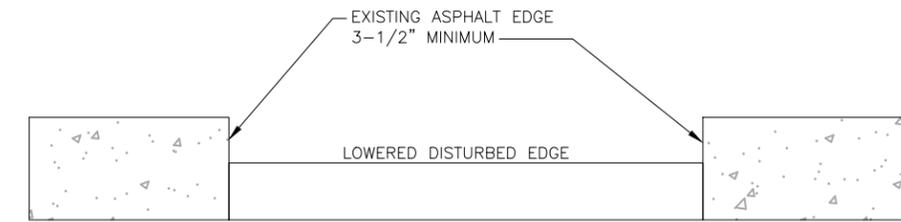
- MATERIALS HANDLING SPECIFICATIONS:**
1. DEBRIS, OVERBURDEN, SOIL STOCKPILES AND WASTE MATERIALS SHALL BE PLACED AWAY FROM AREAS OF RUNOFF
  2. THERE ARE SEVERAL BEST MANAGEMENT PRACTICES THAT CAN BE EMPLOYED TO PREVENT OR MITIGATE THE SOURCE OF POLLUTANTS AND CONTAMINATION OF STORM WATER RUNOFF. THE CONTRACTOR IS NOT LIMITED TO THESE MEASURES WHICH MAY REQUIRE ADJUSTING THE BMP'S AS THE PROJECT PROGRESSES AND IMPLEMENT FURTHER CONTROLS AS PRUDENCE AND GOOD JUDGMENT DEEM NECESSARY. SOME OF THESE ARE:
    - A. ALL REFUSE DUMPSTERS AND RECEPTACLES SHALL BE EQUIPPED WITH FUNCTIONAL LIDS TO PREVENT RAIN AND SNOW FROM ENTERING. LIDS MUST BE CLOSED WHEN DUMPSTERS AND RECEPTACLES ARE NOT ACTIVELY IN USE
    - B. STORAGE CONTAINERS, DRUMS, AND BAGS SHALL BE STORED AWAY FROM DIRECT TRAFFIC ROUTES TO PREVENT ACCIDENTAL SPILLS. ENSURE PACKAGES AND CONTAINERS ARE INTACT
    - C. EMPTY DRUMS SHALL BE COVERED TO PREVENT COLLECTION OF PRECIPITATION
    - D. CONTAINERS SHALL BE STORED ON PALLETS TO PREVENT CORROSION OF CONTAINERS, WHICH CAN RESULT WHEN CONTAINERS COME IN CONTACT WITH MOISTURE ON THE GROUND
    - E. REGULARLY SCHEDULED REMOVAL OF CONSTRUCTION TRASH AND DEBRIS
    - F. WHERE APPLICABLE, TRACKING CONTROL MUST BE IMPLEMENTED BY THE CONTRACTOR TO PREVENT UNNECESSARY SOIL FROM ENTERING PAVED SURFACES. THE MEASURES TO BE USED WILL BE PREVENTING EQUIPMENT IN THE CONSTRUCTION AREA FROM MOVING OFF-SITE. IF THE CONTRACTOR CANNOT DO THIS, THEN A VEHICLE TRACKING PAD WILL BE REQUIRED ACCORDING TO COUNTY SPECIFICATIONS. BROOMS AND SHOVELS MAY BE REQUIRED FOR TRACKING CONTROL



**C VAULT LID EROSION CONTROL**  
**EC-19** SCALE: N.T.S.



**D HYDRANT EROSION CONTROL**  
**EC-19** SCALE: N.T.S.



**E LOWERED GRADE BMP DETAIL**  
**EC-19** SCALE: N.T.S.

NOTE:  
 TO BE USED WHERE PIPELINE IS INSTALLED WITHIN PAVED ROAD

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**TRIVIEW METROPOLITAN DISTRICT**  
**NORTHERN DELIVERY SYSTEM**  
**EROSION CONTROL DETAILS**

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**FOR CONSTRUCTION**

Project No.: 224.29  
 Date: 04/28/23  
 Design: GJD  
 Drawn: SNH  
 Check: MLD

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**SURFACE ROUGHENING INSTALLATION NOTES**

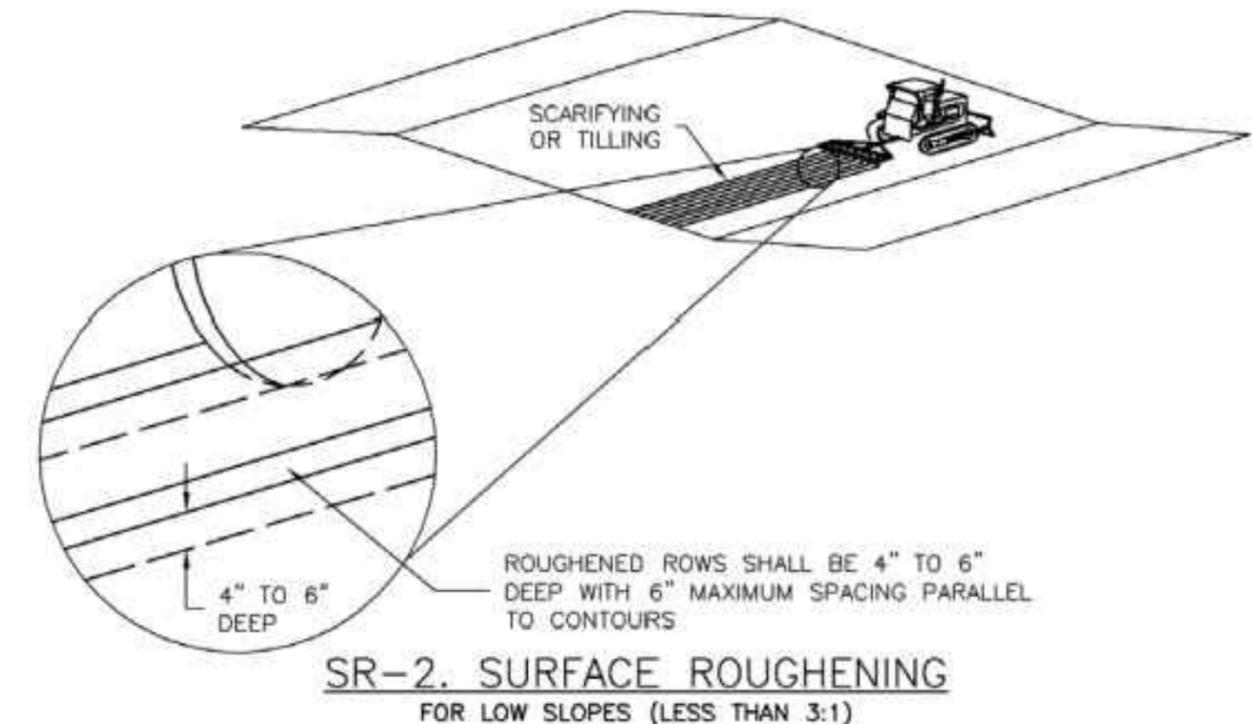
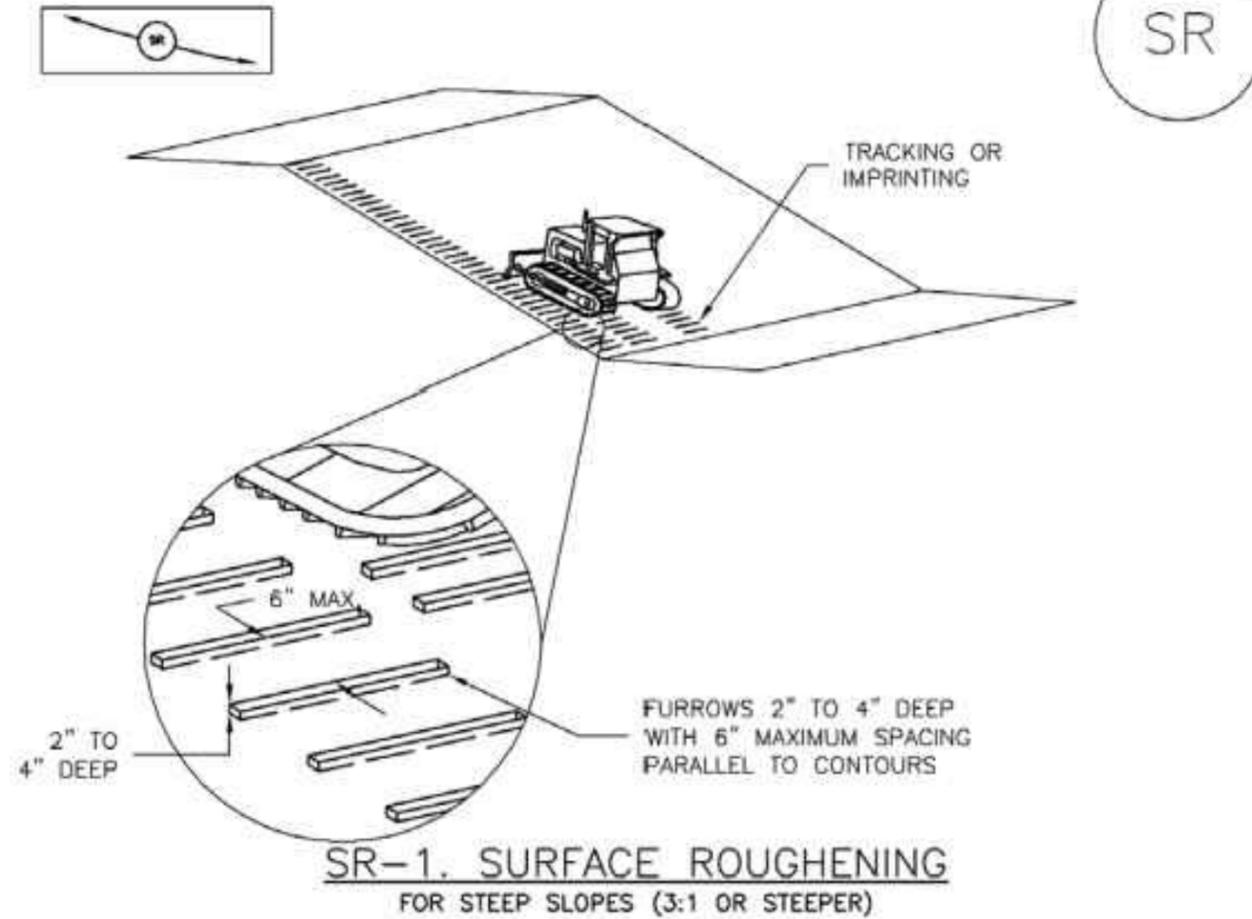
1. SEE PLAN VIEW FOR:  
-LOCATION(S) OF SURFACE ROUGHENING.
2. SURFACE ROUGHENING SHALL BE PROVIDED PROMPTLY AFTER COMPLETION OF FINISHED GRADING (FOR AREAS NOT RECEIVING TOPSOIL) OR PRIOR TO TOPSOIL PLACEMENT OR ANY FORECASTED RAIN EVENT.
3. AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOD WILL BE PLACED WITHOUT DELAY IN THE CONSTRUCTION SEQUENCE, SURFACE ROUGHENING IS NOT REQUIRED.
4. DISTURBED SURFACES SHALL BE ROUGHENED USING RIPPING OR TILLING EQUIPMENT ON THE CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TREADS.
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. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, 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 RE-ROUGHENED AS NECESSARY TO MAINTAIN GROOVE DEPTH AND SMOOTH OVER RILL EROSION.

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

**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.



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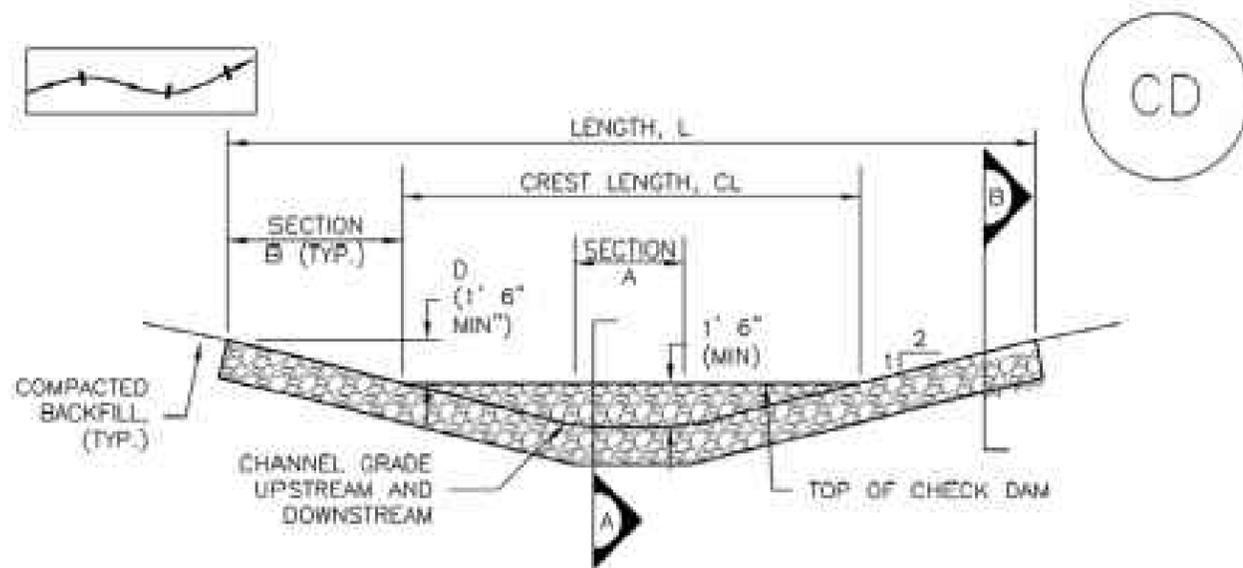
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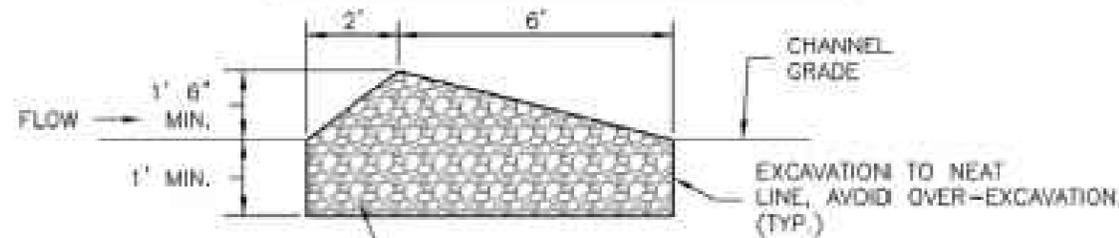
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Date: 04/28/23  
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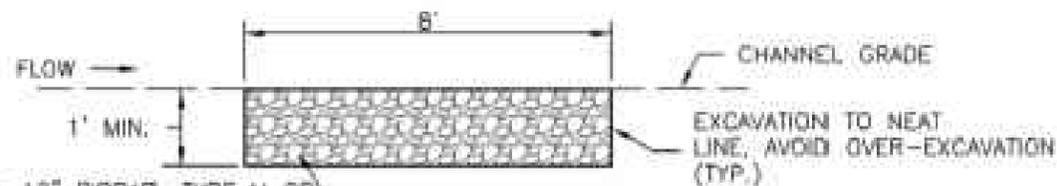


**CHECK DAM ELEVATION VIEW**



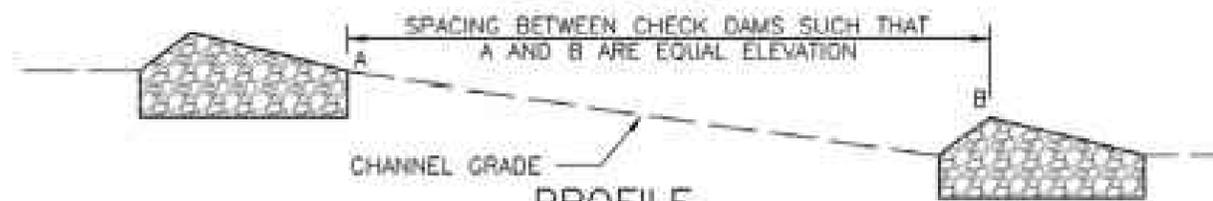
**SECTION A**

D50 = 12" RIPRAP, TYPE M OR TYPE L D50= 9" (SEE TABLE MD-7, MAJOR DRAINAGE, VOL. 1 FOR GRADATION)



**SECTION B**

D50 = 12" RIPRAP, TYPE M OR TYPE L D50=9" (SEE TABLE MD-7, MAJOR DRAINAGE, VOL. 1 FOR GRADATION)



**PROFILE**

**CD-1. CHECK DAM**



**CHECK DAM INSTALLATION NOTES**

1. SEE PLAN VIEW FOR:
  - LOCATION 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 SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.
3. RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12") OR TYPE L (D50 9").
4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'.
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. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, 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 REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
5. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
6. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL. DISTURBED AREA SHALL BE SEED AND MULCHED AND COVERED WITH GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

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

**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.

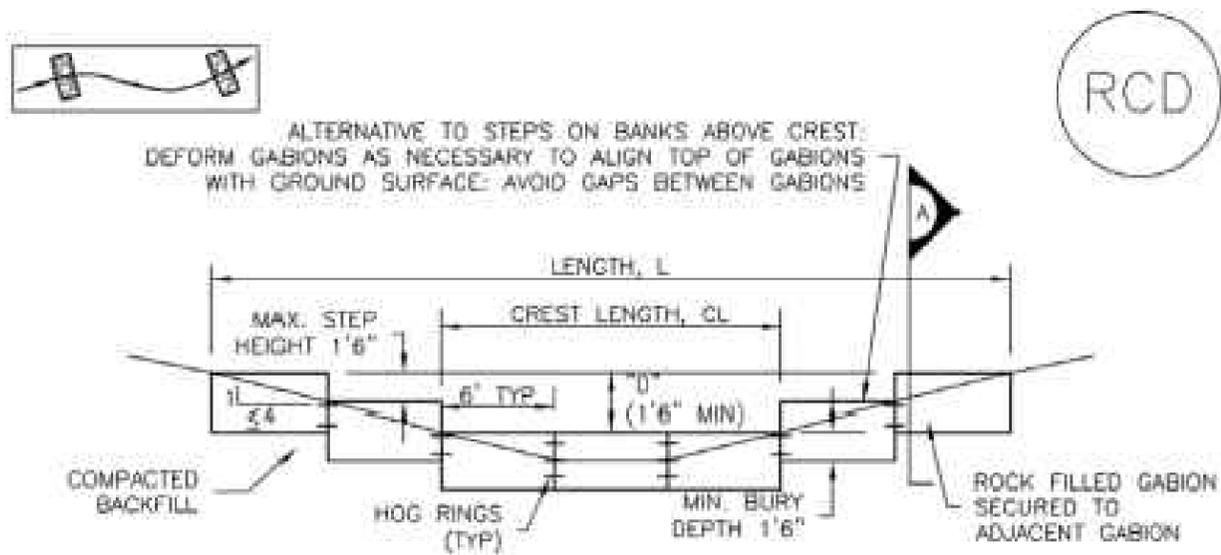
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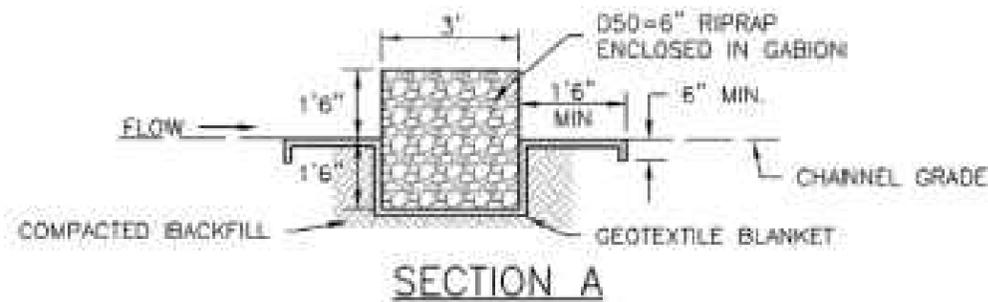


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**REINFORCED CHECK DAM ELEVATION VIEW**



**REINFORCED 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 THE SWMP SHALL BE INSTALLED PRIOR TO AN UPSTREAM LAND-DISTURBING ACTIVITIES.
3. REINFORCED CHECK DAMS, GABIONS SHALL HAVE GALVANIZED TWISTED WIRE NETTING WITH A MAXIMUM OPENING DIMENSION OF 4 1/2" AND A MINIMUM WIRE THICKNESS OF 0.10". WIRE "HOG RINGS" AT 4" SPACING OR OTHER APPROVED MEANS SHALL BE USED AT ALL GABION SEAMS AND TO SECURE THE GABION TO THE ADJACENT SECTION.
4. THE CHECK DAM SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1' 6".
5. GEOTEXTILE BLANKET SHALL BE PLACED IN THE REINFORCED CHECK DAM TRENCH EXTENDING A MINIMUM OF 1' 6" ON BOTH THE UPSTREAM AND DOWNSTREAM SIDES OF THE REINFORCED CHECK DAM.

**CD-2. REINFORCED CHECK DAM**

**REINFORCED CHECK DAM MAINTENANCE NOTES**

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, 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 REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  4. SEDIMENT ACCUMULATED UPSTREAM OF REINFORCED CHECK DAMS SHALL BE REMOVED AS NEEDED TO MAINTAIN THE EFFECTIVENESS OF BMP, TYPICALLY WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 1/2 THE HEIGHT OF THE CREST.
  5. REPAIR OR REPLACE REINFORCED CHECK DAMS WHEN THERE ARE SIGNS OF DAMAGE SUCH AS HOLES IN THE GABION OR UNDERCUTTING.
  6. REINFORCED CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
  7. WHEN REINFORCED CHECK DAMS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, AND COVERED WITH A GEOTEXTILE BLANKET, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- (DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)
- 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.



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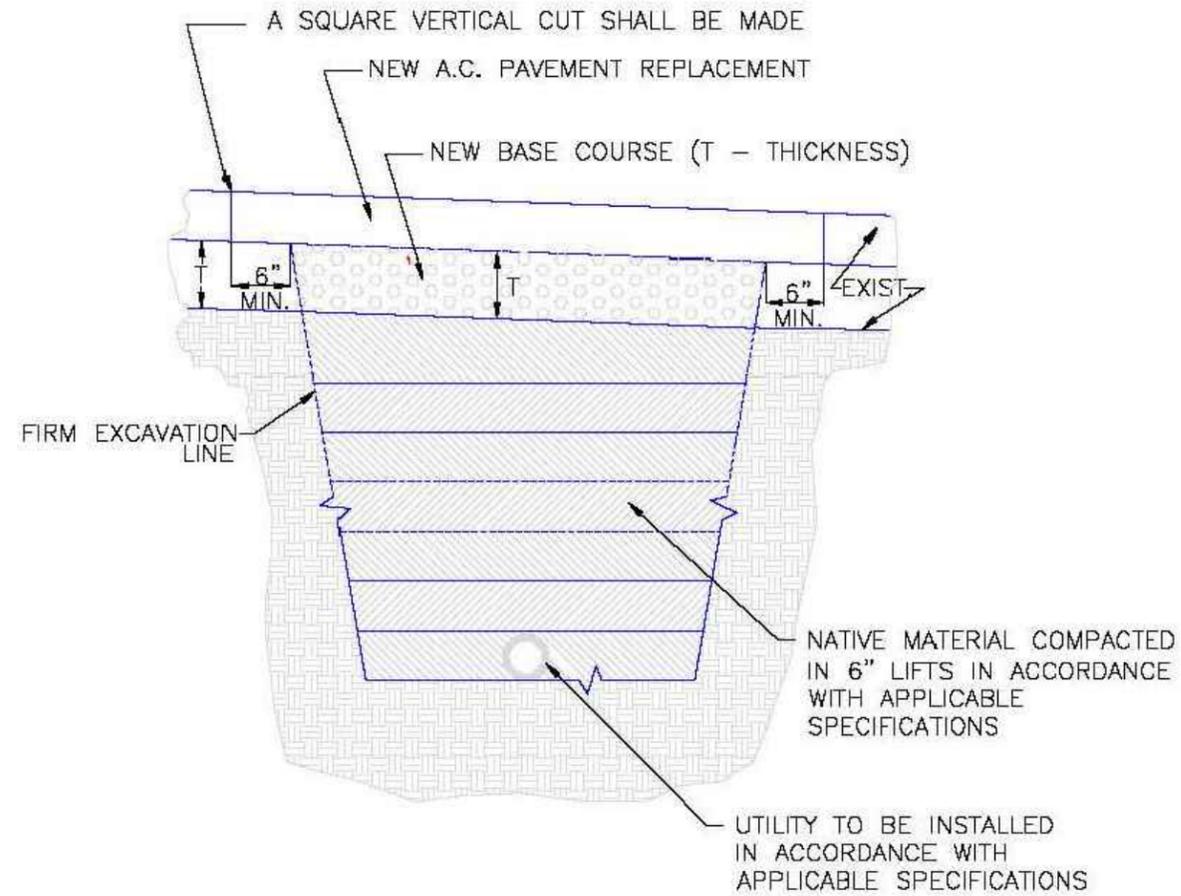
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**NOTES:**

1. THIS DETAIL MAY BE USED FOR PAVEMENT CUTS LESS THAN 200 SQ. FT.
2. EXISTING PAVEMENT MAY BE ROUGH CUT INITIALLY IN CONJUNCTION WITH TRENCHING.
3. A SQUARE VERTICAL CUT SHALL BE MADE IN THE EXISTING A.C. PAVEMENT AFTER PLACEMENT OF BACKFILL PRIOR TO PAVEMENT REPLACEMENT.
4. THICKNESS OF NEW A.C. PAVEMENT REPLACEMENT SHALL MATCH EXISTING (4" MIN.)
5. THICKNESS OF NEW BASE COURSE SHALL BE MINIMUM OF 6" OR EQUAL TO EXISTING, WHICHEVER IS GREATER.

SCALE: NOT TO SCALE

<p style="text-align: center; font-size: 1.2em;">8/11/11</p> <p>DATE APPROVED:</p> <p style="text-align: center; font-size: 1.1em;">André P. Brackin</p> <p style="font-size: 0.8em;">DEPARTMENT OF TRANSPORTATION</p>	<p style="font-size: 1.1em;">Utility Trench Repair Detail</p> <p style="font-size: 1.1em;">Asphalt Pavement</p> <p style="font-size: 1.1em;">Standard Drawing</p>	
<p style="font-size: 0.8em;">REVISION DATE:</p> <p style="text-align: center; font-size: 1.1em;">11/10/04</p>	<p style="font-size: 0.8em;">FILE NAME:</p> <p style="text-align: center; font-size: 1.1em;">SD_4-20</p>	

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