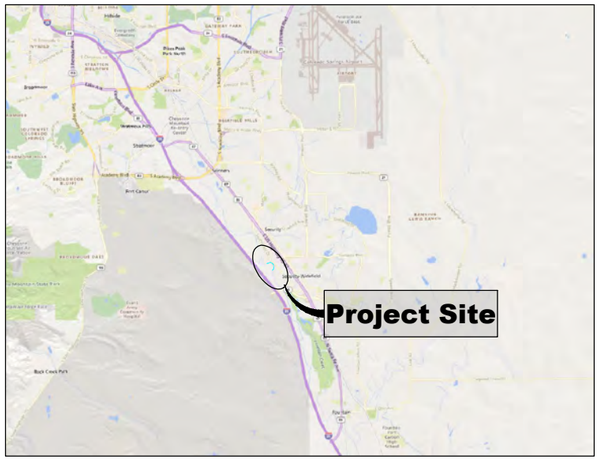
Know what's below. Call before you dig. 811

SOUTHMOOR DRIVE CHANNEL STABLILIZATION

FOUNTAIN CREEK WATERSHED DISTRICT

PERMIT PLANSET
APRIL 2023

MATRIX PROJECT No. 23.526.036



VICINITY MAP
N.T.S.

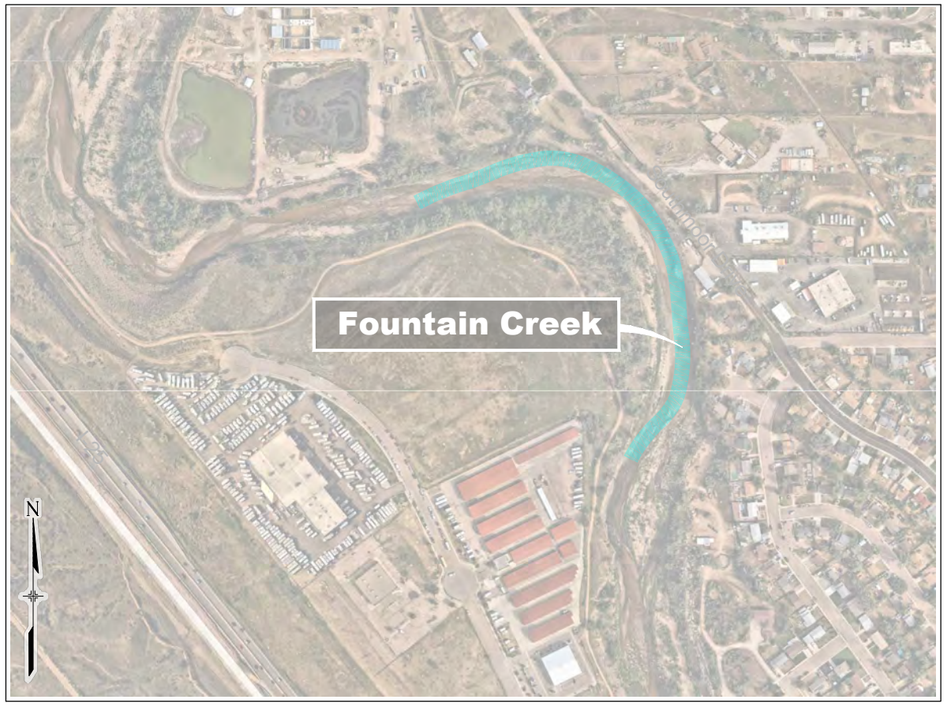
VERTICAL DATUM: THE ELEVATIONS ON THIS PROJECT ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.

HORIZONTAL DATUM: THE COORDINATES FOR THIS PROJECT ARE NAD83/2011 COLORADO STATE PLANE CENTRAL ZONE GRID COORDINATES.

AERIAL PHOTO: PROVIDED BY AERIAL MAPPING SERVICES

BENCHMARK STATEMENT: BENCHMARK: NO. 5 REBAR LOCATED OFF THE NORTHERLY ASPHALT EDGE OF SOUTHMOOR DRIVE AND IS APPROXIMATELY 155 FEET NORTHWESTERLY ALONG SAID ASPHALT EDGE FROM THE CENTERLINE OF THE DRIVEWAY ENTRANCE TO 6625 SOUTHMOOR DRIVE, CITY OF FOUNTAIN, STATE OF COLORADO. [GLOBAL COORDINATES NAD83(2011) AT EPOCH 2010; LAT: N 38°44'07.89062", LONG: W 104°44'04.58072".] ELEVATION WAS ESTABLISHED BY G.P.S. OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 5,686.44 FEET.

PROPERTY INFORMATION: PARCEL LINES AND PROPERTY OWNERSHIP INFORMATION SHOWN WERE PROVIDED BY AN ALTA SURVEY.



LOCATION MAP
SCALE: 1" = 500'

SHEET INDEX

Applicable Specifications (City of Colorado Springs - Drainage Criteria Manual (DCM))			
100	General Provisions	622	Channel Embankment and Backfill
620	Drainage Channels	624	Riprap and Grouted Riprap Channel Construction
621	Channel Excavation	900	Seeding, Fertilizer, Mulching, and Sodding
Applicable Specifications (Mile High Flood District - Urban Storm Drainage Criteria Manual)			
01 71 13	Mobilization	31 23 33	Trenching and Backfill
01 55 26	Traffic Control	31 25 00	Erosion and Sediment Control
01 56 39	Temporary Tree and Plant Protection	31 37 00	Riprap, Boulders, and Bedding
31 11 00	Clearing and Grubbing	32 91 13	Topsoil
31 14 13	Topsoil Stripping and Stockpiling	32 92 19	Seeding
31 23 00	Excavation and Fill	32 93 00	Landscape Planting
31 23 19	Dewatering	32 93 43	Soil Bioengineering or Shoreline Stabilization

REFERENCE DRAWINGS
X-526.036-MDG22x34
X-526.036-IMAGE

No.	DATE	DESCRIPTION	BY

REVISIONS

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PERMIT PLANSET

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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

PREPARED BY: Matrix Excellence by Design

SEAL

PRELIMINARY
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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT
SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET
TITLE SHEET

DESIGNED BY: TKM
DRAWN BY: KDL
CHECKED BY: AJS
SCALE HORIZ. 1" = 500' VERT. N/A
DATE ISSUED: APRIL 2023
SHEET 01 OF 25
DRAWING No. TS01

Know what's below. Call before you dig.

GENERAL NOTES:

1. THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR TO CALL FOR UTILITY LOCATOR AT LEAST 3 CALENDAR DAYS BEFORE EXCAVATION. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES. IN THE EVENT THAT THE CONTRACTOR UTILITY VERIFICATION RESULTS IN EXISTING STRUCTURES OR UTILITIES BEING IN CONFLICT WITH THE PROPOSED WORK OF THIS CONTRACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY UTILITIES AND COORDINATE ANY NEEDED MODIFICATIONS TO THE PROPOSED WORK AS DIRECTED BY THE FOUNTAIN CREEK WATERSHED DISTRICT (DISTRICT). THE CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED UTILITY OWNERS TO ESTABLISH THE REQUIREMENTS AND METHODS TO ACCOMMODATE THE PROTECTION, TEMPORARY SUPPORT, ADJUSTMENT OR RELOCATION OF UTILITIES PRIOR TO THE START OF CONSTRUCTION.
2. OVERHEAD UTILITIES MAY NOT BE INDICATED ON PROFILE OR SECTION DRAWINGS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND MAINTAINING IN CONTINUOUS OPERATION, ALL EXISTING STRUCTURES. NOT ALL POTENTIALLY IMPACTED STRUCTURES MAY BE SHOWN ON THE DRAWINGS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND PROTECT ALL STRUCTURES INCLUDING BUT NOT LIMITED TO STREETS, CURB AND GUTTER, BRIDGE PIERS AND ABUTMENTS, CREEK BANK PROTECTION OF VARIOUS TYPES, CREEK DROP STRUCTURES, SIGNS, PEDESTRIAN WALKS, RETAINING WALLS AND FENCING. IN THE EVENT THAT A STRUCTURE OR UTILITY IS DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THE FACILITY IN WRITING AND COOPERATE AND COORDINATE AS REQUIRED BY THE OWNER OF THE FACILITY.
4. THE CONTRACTOR SHALL CONFIRM THE RECEIPT OF ALL NECESSARY PERMITS AND APPROVALS BEFORE THE START OF CONSTRUCTION.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE CITY OF FOUNTAIN, THE CITY OF COLORADO SPRINGS, AND DISTRICT UNLESS SPECIFICALLY DETAILED OTHERWISE ON THESE PLANS AND ASSOCIATED SPECIFICATIONS.
6. THE CONTRACTOR SHALL MAINTAIN AT THE SITE AT ALL TIMES ONE SIGNED COPY OF THE PROJECT DRAWINGS AND SPECIFICATIONS AND ONE COPY OF ALL REQUIRED PERMITS.
7. THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS IN SUCH A WAY THAT THE AREA OF DISTURBANCE IS MINIMIZED. ALL EXISTING TREES, SHRUBS AND VEGETATION SHALL BE PROTECTED UNLESS OTHERWISE NOTED ON THE DRAWINGS. NO TREES SHALL BE REMOVED WITHOUT APPROVAL.
8. FOR ALL GRADING, SMOOTH PARABOLIC TRANSITIONS SHALL BE MADE BETWEEN CHANGES IN SLOPE AND AN INTERSECTION WITH EXISTING GROUND.
9. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING STABLE EXCAVATIONS AND TEMPORARY SLOPES AND FOR SATISFYING ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
10. CONSTRUCTION OF THE PROPOSED WORK WILL TAKE PLACE WITHIN THE PROJECT LIMITS AND WATER CONTROL MEASURES WILL BE REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTANCE AND CONTROL OF DRAINAGE WATER FROM AREAS ADJACENT TO THE PROJECT AND FOR FLOW WITHIN FOUNTAIN CREEK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ESTABLISHING MEANS AND METHODS OF GROUND AND SURFACE WATER CONTROL APPROPRIATE FOR CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT DRAWINGS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND PERMITS.
11. THE CONTRACTOR SHALL PREPARE AND MAINTAIN AT THE SITE AT ALL TIMES THE STORMWATER MANAGEMENT PLAN AND OBTAIN THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THROUGH THE COLORADO DEPARTMENT OF PUBLIC HEALTH (CDPHE) AND ALL OTHER APPROPRIATE FEDERAL, STATE AND LOCAL PERMITS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR AS-BUILT DRAWINGS TO BE MAINTAINED AND SUBMITTED TO THE DISTRICT, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
13. THE CONTRACTOR SHALL PROTECT ON-SITE SURVEY CONTROL AND NOTIFY THE DISTRICT IN THE EVENT THAT SURVEY CONTROL IS DAMAGED OR DESTROYED.
14. CONTRACTOR SHALL FENCE OFF CRITICAL AREAS TO BE PROTECTED AT THE DISCRETION OF THE DISTRICT.
15. THE CONTRACTOR SHALL DEVELOP A TRAFFIC CONTROL PLAN FOR PLANNED ACCESS TO THE SITE AND FOR EXITING AND ENTERING PUBLIC ROADS AS REQUIRED BY AGENCIES RESPONSIBLE FOR TRAFFIC CONTROL ON ADJACENT PUBLIC ROADS AND THE FRONT RANGE TRAIL.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND MAINTAINING PHYSICAL AND LEGAL ACCESS TO THE PROJECT SITE AND SHALL LIMIT TRANSPORTATION TO AND FROM THE SITE TO THOSE APPROVED BY LOCAL AGENCIES AND THE DISTRICT.
17. THE CONTRACTOR SHALL COMPLY WITH AGREEMENTS BETWEEN THE DISTRICT AND LAND OWNERS OR AGENCIES WITH REGARD TO CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO ACCESS, SECURITY, AND SITE RESTORATION. CONTRACTOR SHALL NOT ACCESS THE PROJECT BY ROUTES OTHER THAN THOSE DEFINED IN AGREEMENTS WITH LAND OWNERS OR AGENCIES.
18. TEMPORARILY DISTURBED AREAS, SUCH AS ACCESS ROUTES AND STAGING AREAS, SHALL BE RESTORED PRIOR TO DEMOBILIZATION WITH SOIL AMENDMENT AND UPLAND SEEDING AND COVERED WITH EROSION CONTROL FABRIC OR CRIMPED STRAW, PER DESIGN PLAN DETAILS AND SPECIFICATIONS OR AS DIRECTED BY ENGINEER.

ABBREVIATIONS

℄	CENTER LINE	APPROX.	APPROXIMATE
HCL	HORIZONTAL CONTROL LINE	MIN.	MINIMUM
DIA	DIAMETER	MAX.	MAXIMUM
EX./EXIST	EXISTING	HORIZ	HORIZONTAL
EL./ELEV	ELEVATION	VERT.	VERTICAL
FT.	FEET	DIST.	DISTANCE
INV.	INVERT	NTS	NOT TO SCALE
LF	LINEAR FEET	TYP	TYPICAL
LT	LEFT	O.C.	ON CENTER
N,S,E,W	NORTH, SOUTH, EAST, WEST	L.O.C.	LIMITS OF CONSTRUCTION
ℙ	PROPERTY LINE	RR	RAILROAD
ROW	RIGHT-OF-WAY	BCL	BANKFULL CONTROL LINE
RT	RIGHT	TCL	THALWEG CONTROL LINE
SF	SQUARE FEET	PR.	PROPOSED
STA.	STATION		

STANDARD SYMBOLS

EXISTING CONTOURS

PROPOSED CONTOURS

PROPERTY LINE

LIMITS OF CONSTRUCTION

CONSTRUCTION ACCESS

LEGEND

PROPOSED SOIL RIPRAP

BASEFLOW CHANNEL

SLOPE PROTECTION

TOE WOOD BANK PROTECTION

REFERENCE DRAWINGS

X-526.036-MDG22x34

No.	DATE	DESCRIPTION	BY

REVISIONS

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FOUNTAIN CREEK WATERSHED · FLOOD CONTROL & GREENWAY DISTRICT ·

PREPARED BY: Matrix Excellence by Design

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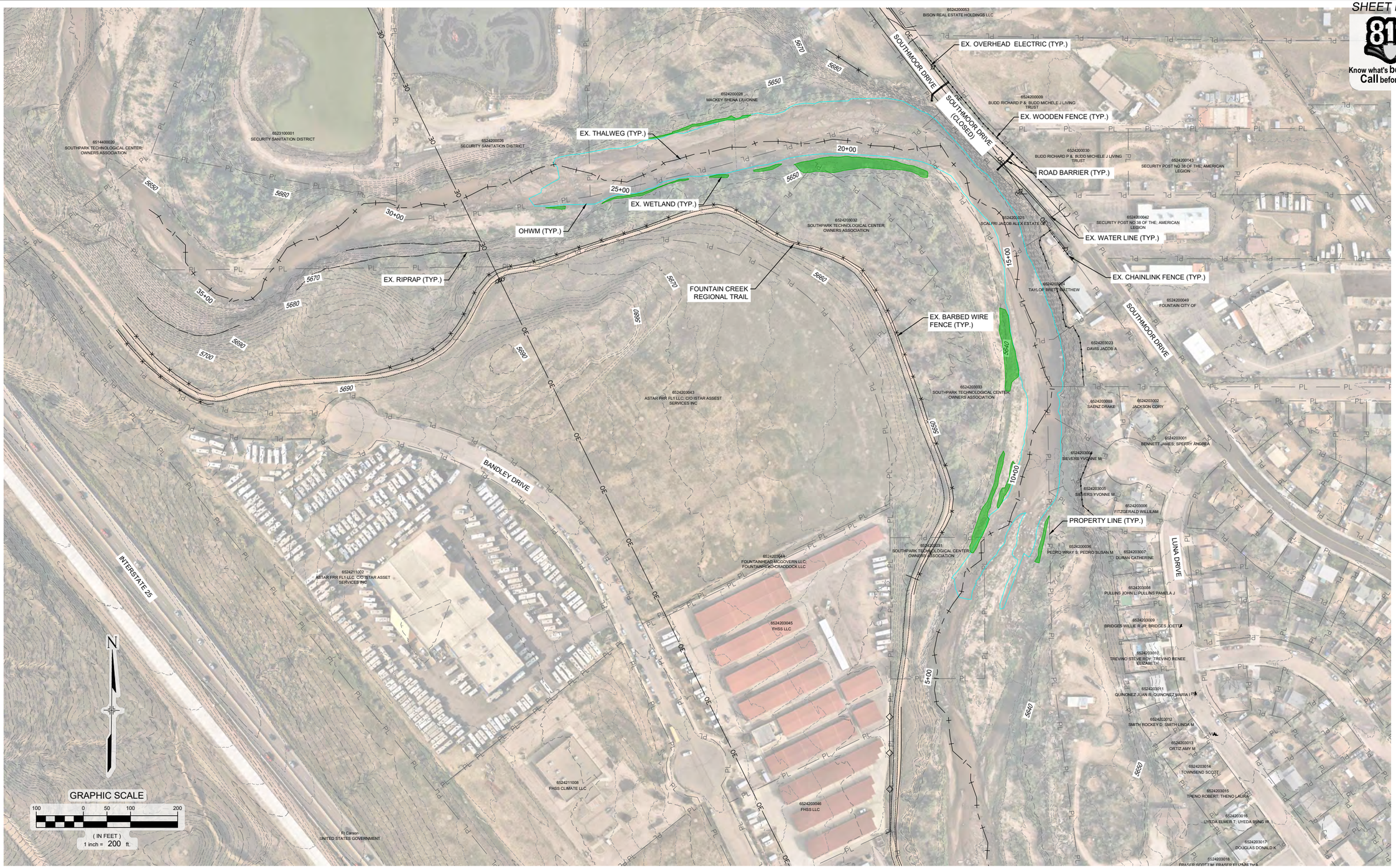
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

GENERAL NOTES

DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	N/A	DRAWING No.	GN01
CHECKED BY:	AJS	VERT.	N/A	SHEET	02 OF 25



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X-526.036-PARCELS_no labels

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FOUNTAIN CREEK WATERSHED FLOOD CONTROL & GREENWAY DISTRICT

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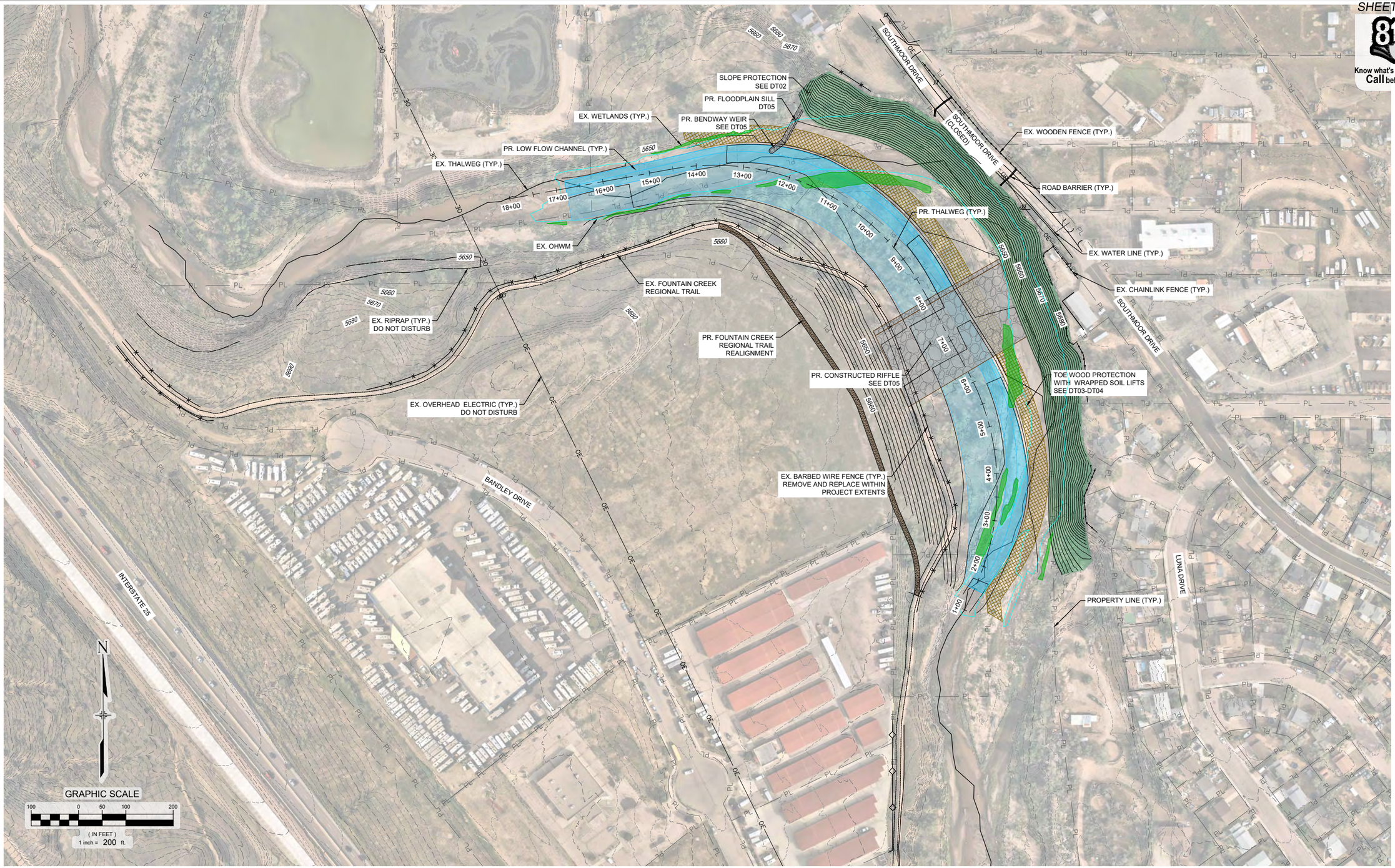
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

EXISTING CONDITIONS

DESIGNED BY:	TKM	SCALE	DATE ISSUED:	APRIL 2023	DRAWING No.
DRAWN BY:	KDL	HORIZ. 1" = 200'			
CHECKED BY:	AJS	VERT. N/A	SHEET	03 OF 25	EX01



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X-526.036-PR DESIGN STRUCTURES

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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

CHANNEL IMPROVEMENT PLAN

DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023	DRAWING No.
DRAWN BY:	KDL	HORIZ.	1" = 200'			
CHECKED BY:	AJS	VERT.	N/A	SHEET	04 OF 25	DR01

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

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
9000	1,329,491.45	3,218,319.13	5686.43	CP-SET-RBR
9001	1,329,321.78	3,218,455.73	5685.44	CP-SET-MAG
9002	1,329,138.68	3,218,604.28	5682.79	CP-SET-MAG
9003	1,329,538.95	3,218,271.41	5686.40	CP-SET-MAG
701765	1,329,191.96	3,217,927.60	5655.82	CP-DEVILS

LINE TABLE: ALIGNMENTS

LINE #	BEARING	LENGTH
L1	N25.072977E	48.18
L2	N28.484996W	199.07
L3	S79.375106W	358.52

CURVE TABLE: ALIGNMENTS

CURVE #	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH	DELTA ANGLE
C1	480.12	510.00	N1°50'40"W	462.58	53°56'20"
C2	480.12	510.00	N1°50'40"W	462.58	53°56'20"
C3	624.44	500.00	N64°35'29"W	584.64	71°33'19"
C4	624.44	500.00	N64°35'29"W	584.64	71°33'19"

REFERENCE DRAWINGS

X-526.036-MDG22x34
X-526.036-IMAGE

No.	DATE	DESCRIPTION	BY

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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

PREPARED BY:
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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

HORIZONTAL CONTROL

DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	1" = 160'		
CHECKED BY:	AJS	VERT.	N/A	SHEET	05 OF 25

DRAWING No. HC01

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

GRAPHIC SCALE

120 0 60 120 240

(IN FEET)
1 inch = 120 ft.

NOTE:
1. CONTRACTOR RESPONSIBLE FOR RETURNING CONSTRUCTION ACCESS AND STAGING AREA TO PRE-CONSTRUCTION CONDITIONS.
2. FINAL SIZE OF STAGING AREA TO BE DETERMINED BASED ON SOIL AND TOE WOOD STOCKPILING NEEDS.

EROSION CONTROL LEGEND

- CF — CONSTRUCTION FENCE
- SSA — STABILIZED STAGING AREA
- VTC — VEHICLE TRACKING CONTROL
- CD — CHECK DAM
- SBB — STRAW BALE BARRIER

LEGEND

- CONSTRUCTION ACCESS
- LIMITS OF DISTURBANCE

EX. OVERHEAD ELECTRIC (TYP.)
EX. WOODEN FENCE (TYP.)
ROAD BARRIER (TYP.)
EX. WATER LINE (TYP.)
EX. CHAINLINK FENCE (TYP.)
SOUTHMOOR DRIVE
ADDITIONAL EROSION CONTROL MEASURES TO BE EVALUATED FOR SLOPE STABILITY WORK
EX. THALWEG (TYP.)
EX. BARBED WIRE FENCE (TYP.) TO BE REMOVED AND REPLACED WITHIN PROJECT EXTENTS
DANGER OVERHEAD ELECTRIC LINE
PR. FOUNTAIN CREEK REGIONAL TRAIL REALIGNMENT
CONSTRUCTION STAGING AREA EXACT EXTENTS TO BE MODIFIED TO REDUCE ECOLOGICAL IMPACTS
TRAIL TO BE CLOSED DURING CONSTRUCTION
PROPERTY LINE (TYP.)
TRAIL TO BE CLOSED DURING CONSTRUCTION
EX. FOUNTAIN CREEK REGIONAL TRAIL
CF
SSA
SBB
VTC
CD

REFERENCE DRAWINGS

X-526.036-IMAGE
X-526.036-PARCELS_no labels
X-526.036-EX-SITE
X-526.036-EX-UTIL
X-526.036-MDG22x34
X-526.036-PR DESIGN STRUCTURES

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FOUNTAIN CREEK WATERSHED FLOOD CONTROL & GREENWAY DISTRICT

PREPARED BY:
Matrix
Excellence by Design

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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

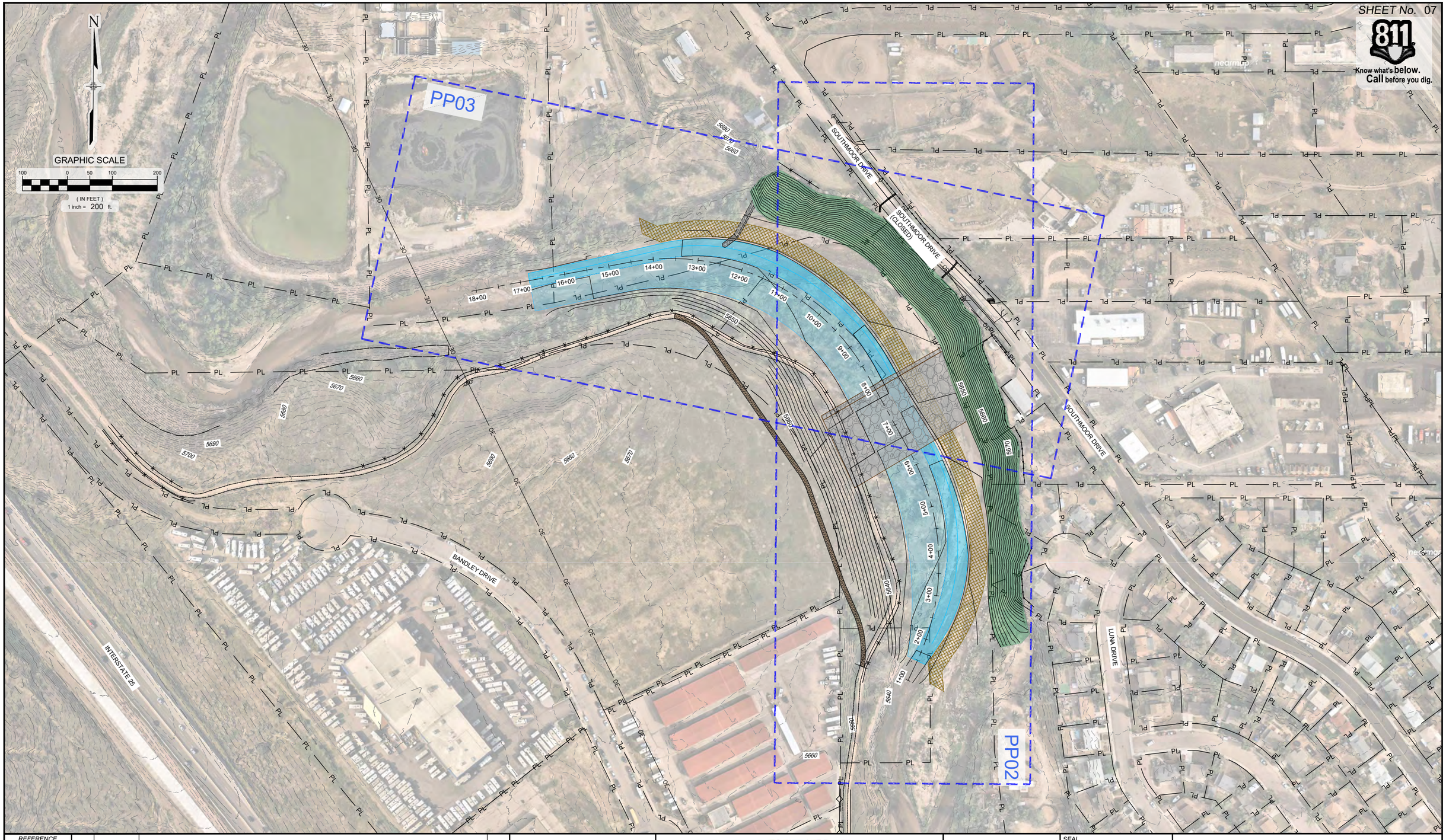
FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

EROSION CONTROL

DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	1" = 120		
CHECKED BY:	AJS	VERT.	N/A	SHEET	06 OF 25

DRAWING No. EC01



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X-526.036-PR DESIGN STRUCTURE

No.	DATE	DESCRIPTION	BY

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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

PREPARED BY:
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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

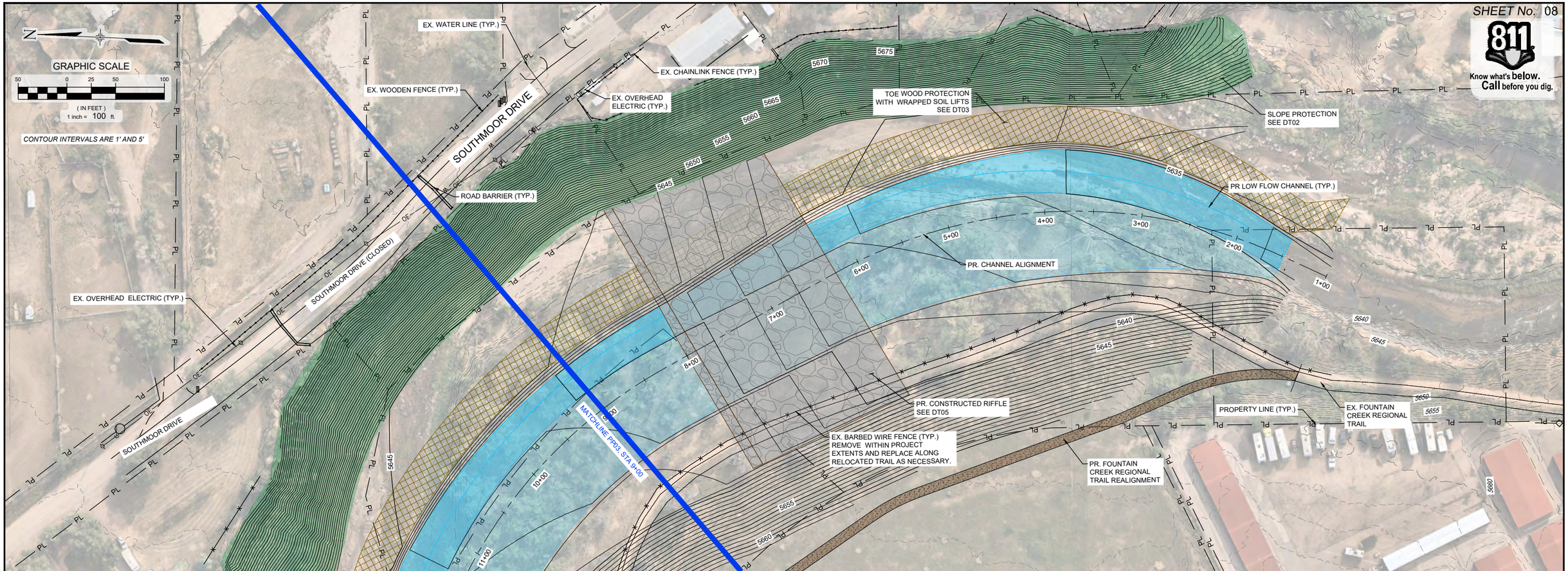
FOUNTAIN CREEK WATERSHED DISTRICT

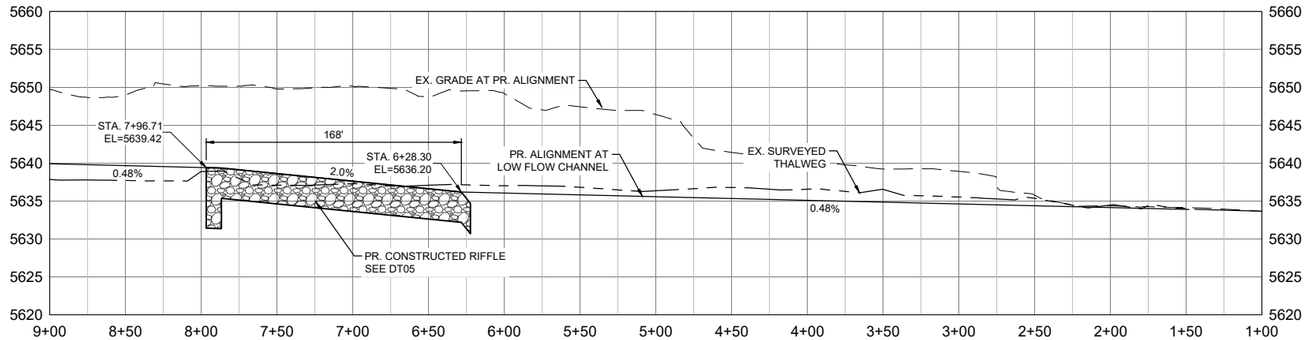
SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

PLAN AND PROFILE OVERVIEW MAP

DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	1" = 200'		
CHECKED BY:	AJS	VERT.	N/A	SHEET	07 OF 25

DRAWING No. PP01





REFERENCE DRAWINGS

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X-526.036-MDS22x34
X-526.036-PR DESIGN STRUCTURE

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		REVISIONS	

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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

PREPARED BY:
Matrix Excellence by Design

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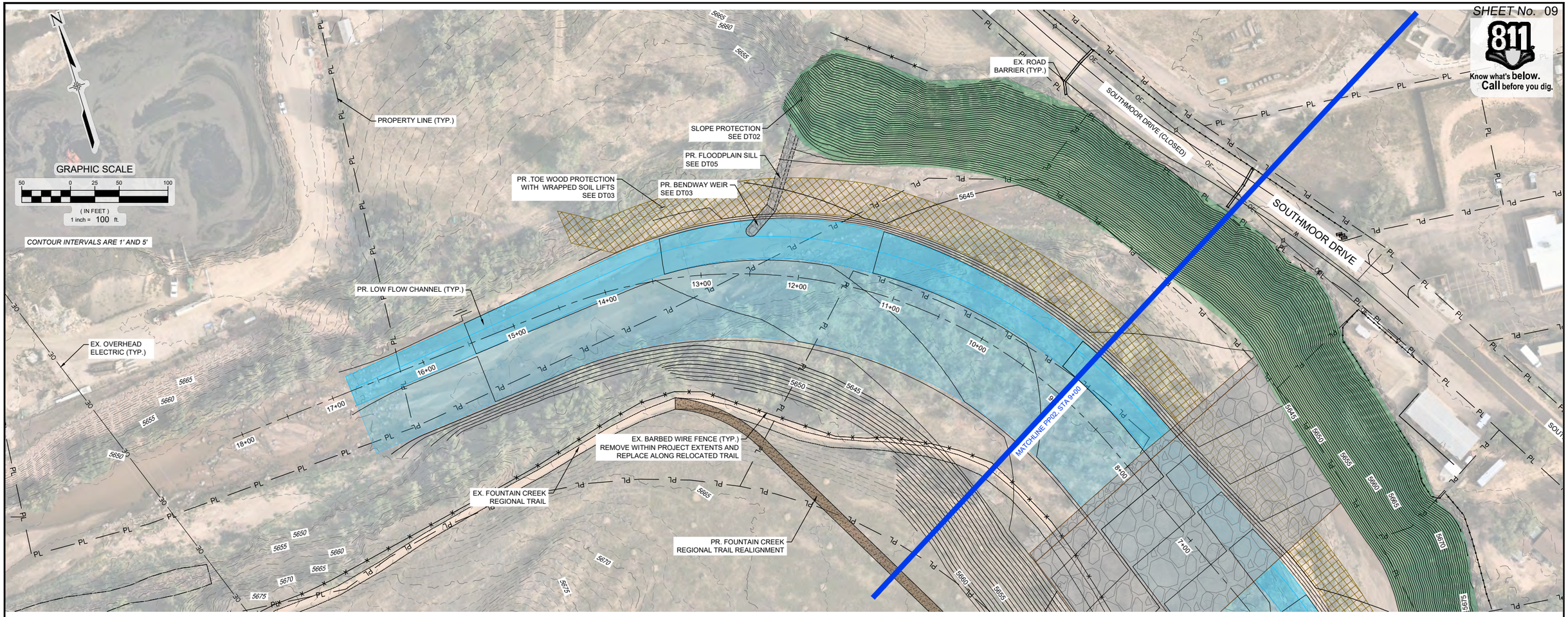
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

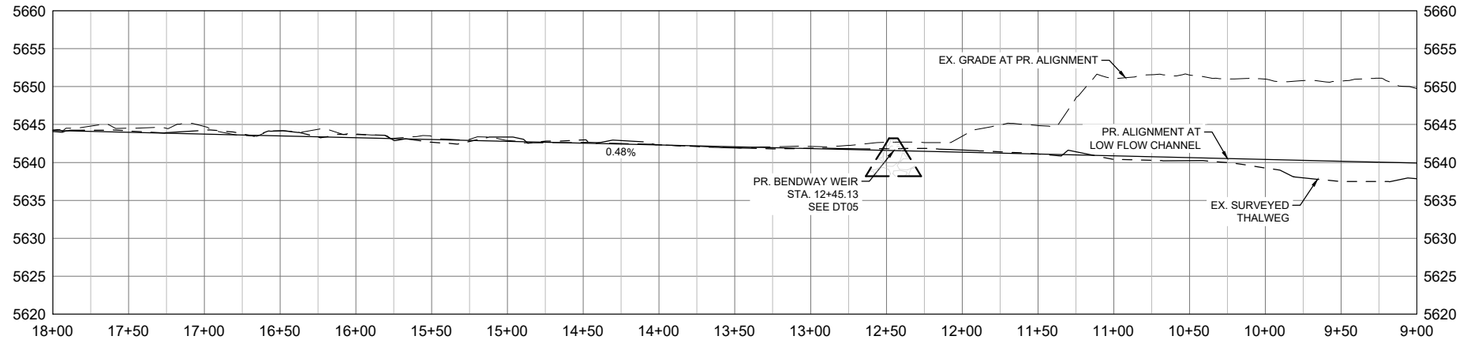
FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

PLAN AND PROFILE STA 1+00 TO 9+00

		SCALE		DATE ISSUED:	APRIL 2023	DRAWING No.
DESIGNED BY:	TKM	HORIZ.	1" = 100'	SHEET	08 OF 25	PP02
DRAWN BY:	KDL	VERT.	1" = 20'			
CHECKED BY:	AJS					





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X-526.036-MDG22x34
X-526.036-PR DESIGN STRUCTURES

NO.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT

FILE NAME: S:\23.526.036 Southmoor Dr Fountain Cr Channel Stabilization\500 CADD\504 Plan Sets\Construction Plans\WR Design Plans\526.036-PP01.dwg
CTB FILE: Matrix(black).ctb
PLOT DATE: April 26, 2023 9:52:50 AM
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PERMIT PLANSET

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FOUNTAIN CREEK WATERSHED FLOOD CONTROL & GREENWAY DISTRICT

PREPARED BY:
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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

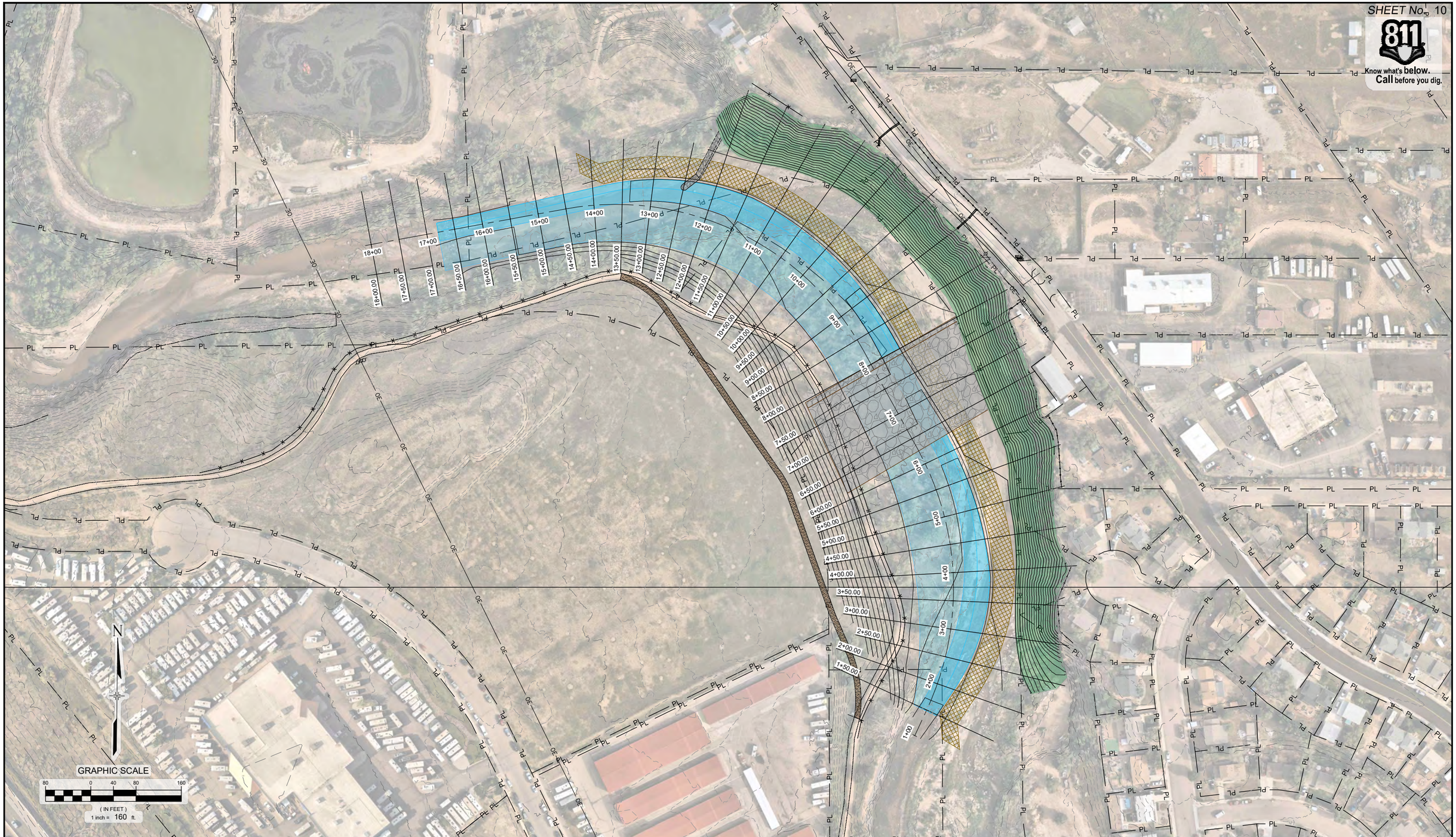
SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

PLAN AND PROFILE STA 9+00 TO 18+00

DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	1" = 100'		
CHECKED BY:	AJS	VERT.	1" = 10'	SHEET	09 OF 25

DRAWING No. PP03

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



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No.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT

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PLOT DATE: April 26, 2023 9:54:26 AM
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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

PREPARED BY:
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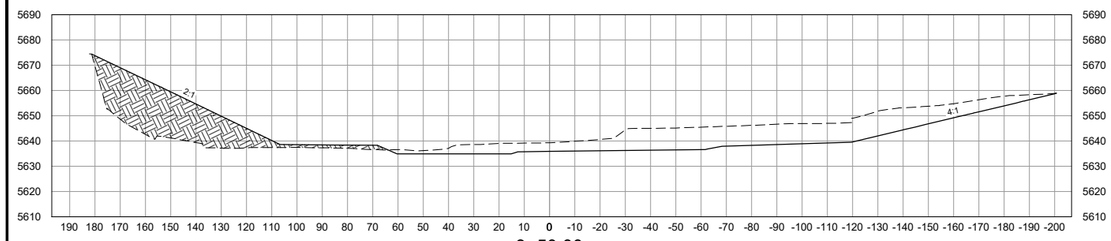
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

CROSS SECTION OVERVIEW MAP

		SCALE		DRAWING No.
DESIGNED BY:	TKM	HORIZ.	1" = 160'	XS01
DRAWN BY:	KDL	VERT.	N/A	
CHECKED BY:	AJS	DATE ISSUED:	APRIL 2023	
		SHEET	10 OF 25	



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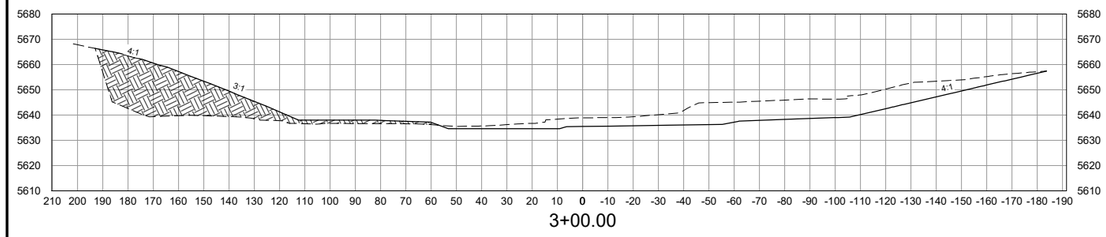

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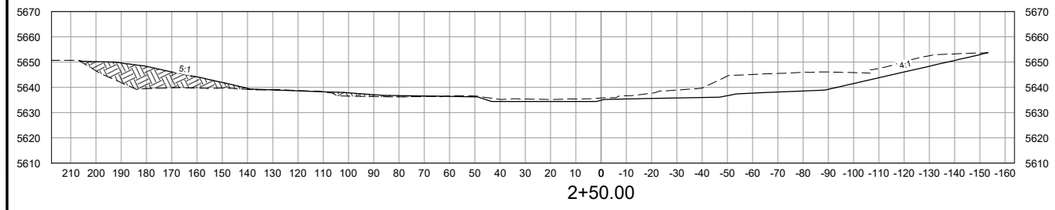

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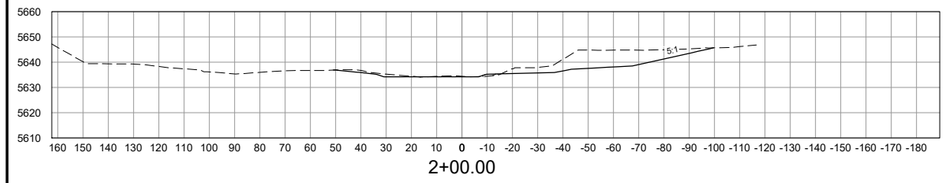

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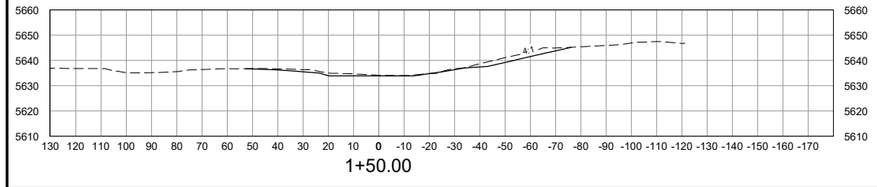
ALL CROSS SECTIONS SHOWN LOOKING DOWNSTREAM



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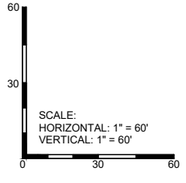

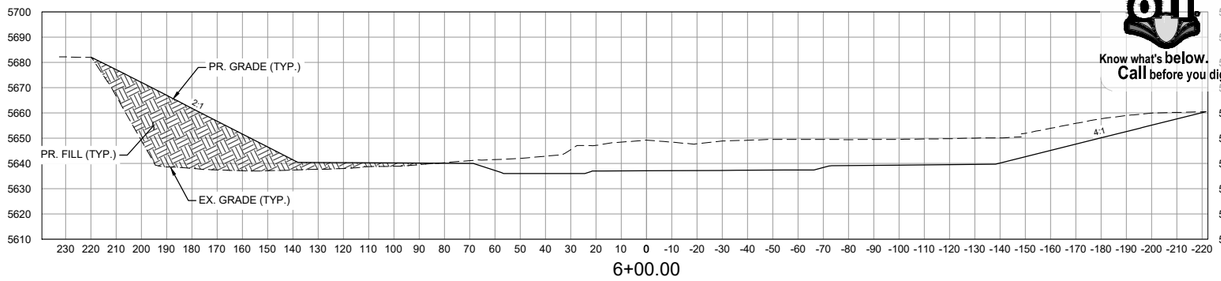

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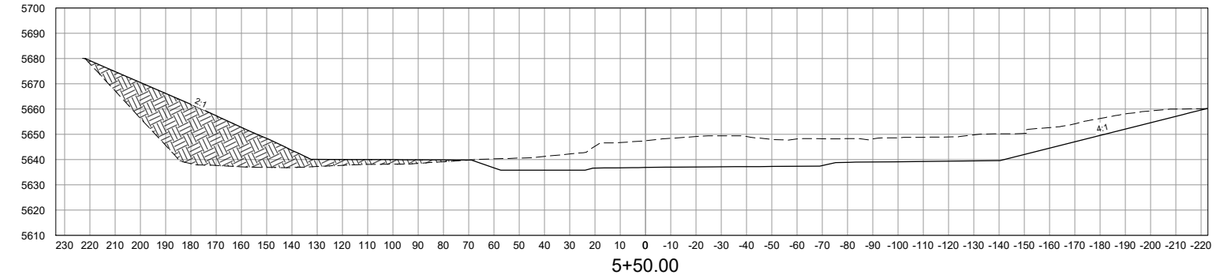

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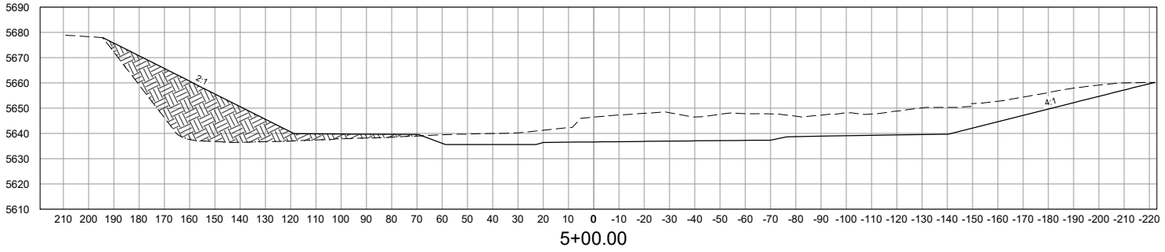

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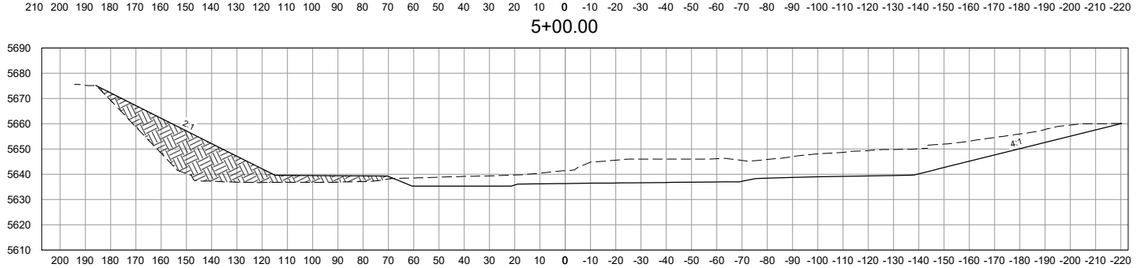

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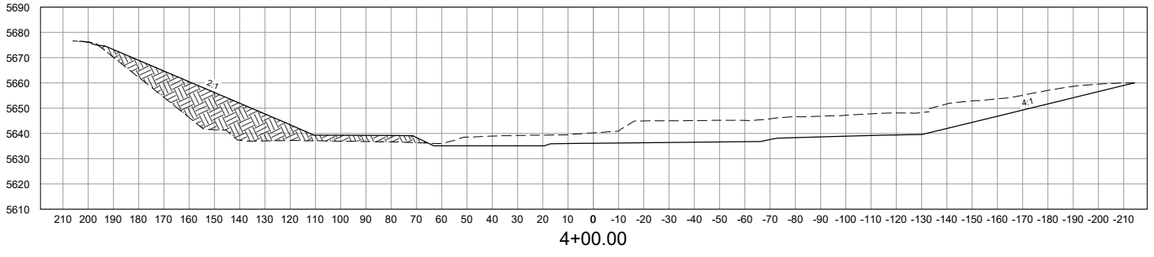

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X-526.036-MDG22x34
X-526.036-PR DESIGN STRUCTURE

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

COMPUTER FILE MANAGEMENT

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CTB FILE: Matrix(black).ctb
PLOT DATE: April 25, 2023 9:22:48 AM
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FOUNTAIN CREEK WATERSHED FLOOD CONTROL & GREENWAY DISTRICT

PREPARED BY: Matrix Excellence by Design

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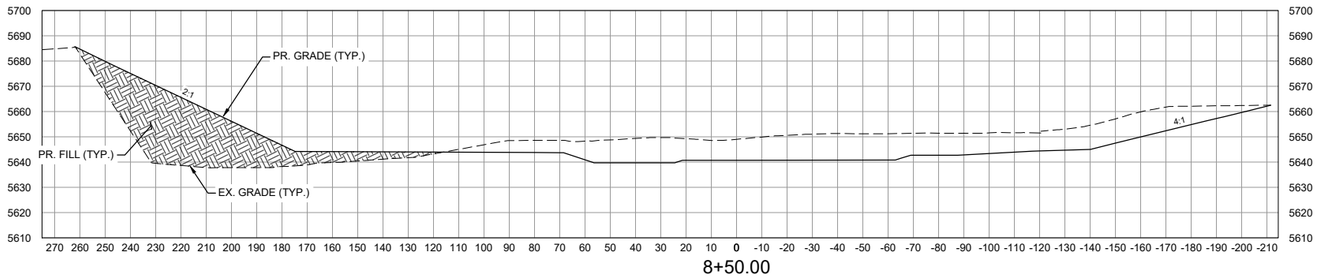
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

CROSS SECTIONS STA 1+50 TO 6+00

DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	1" = 60'	DRAWING No.	XS02
CHECKED BY:	AJS	VERT.	1" = 60'	SHEET	11 OF 25



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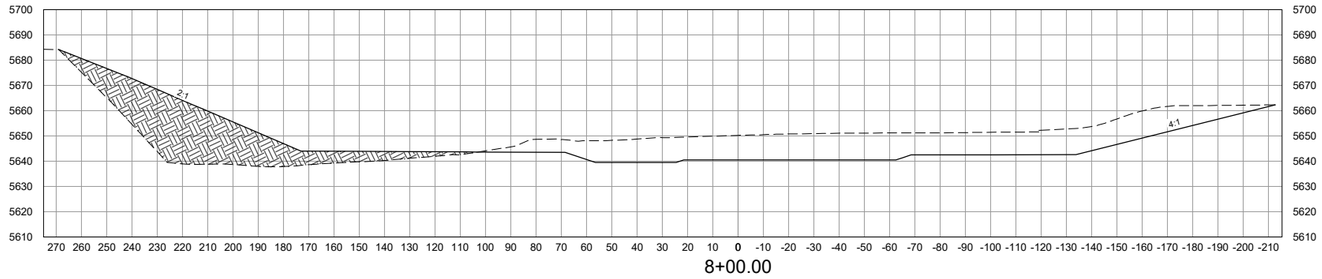

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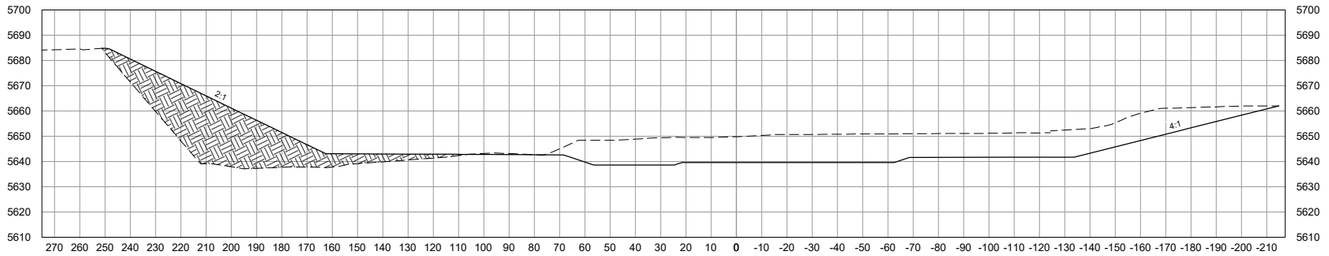

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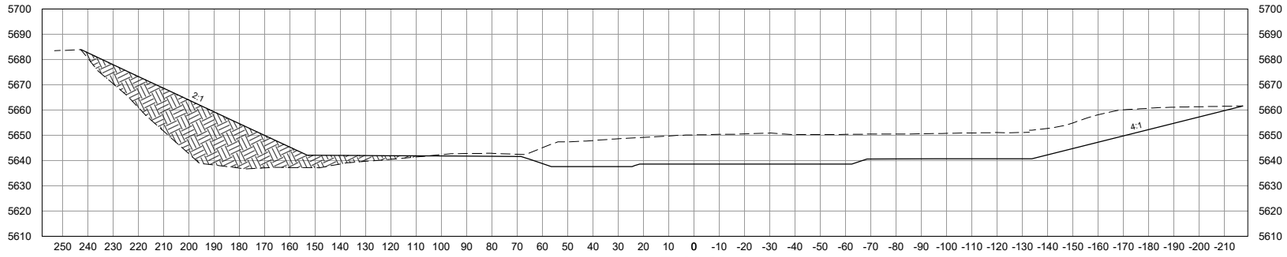

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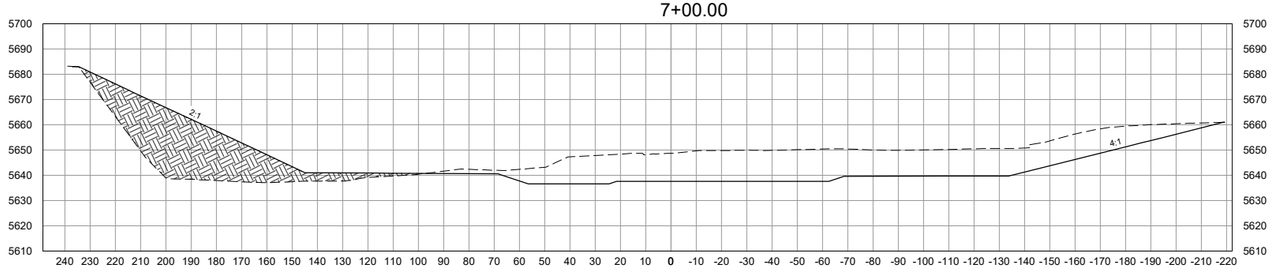
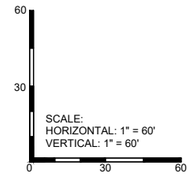


6+50.00

ALL CROSS SECTIONS SHOWN LOOKING DOWNSTREAM



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X-526.036-PR DESIGN STRUCTURES

NO.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT

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PLOT DATE: April 25, 2023 9:27:17 AM
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FOUNTAIN CREEK WATERSHED
FLOOD CONTROL & GREENWAY DISTRICT

PREPARED BY:
Matrix
Excellence by Design

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PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

CROSS SECTIONS STA 6+50 TO 8+50

DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	1" = 60'	DRAWING No.	XS03
CHECKED BY:	AJS	VERT.	1" = 60'	SHEET	12 OF 25

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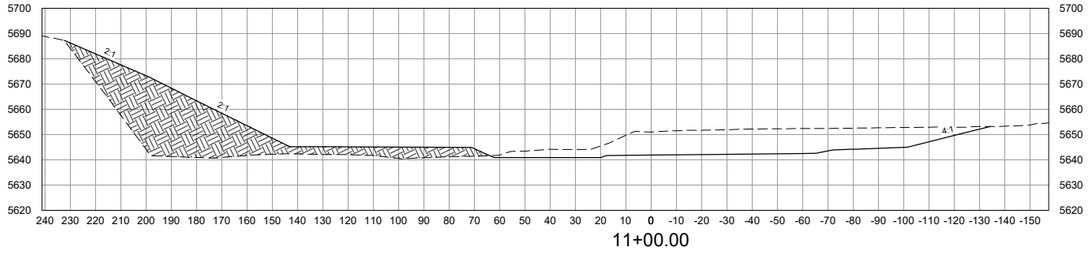

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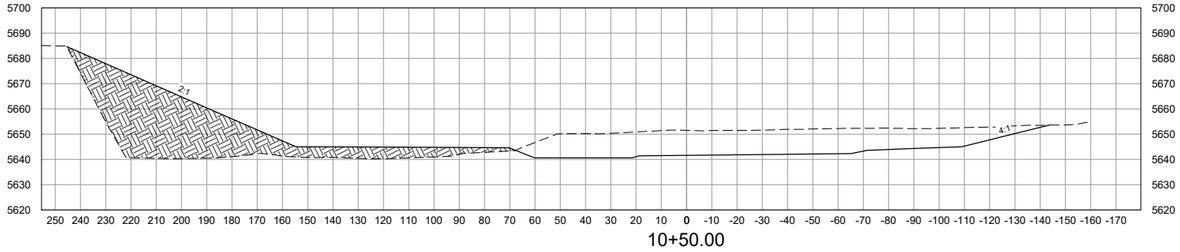

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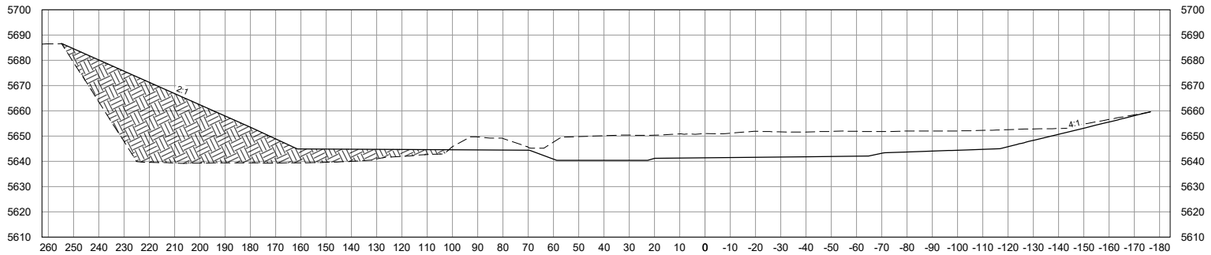

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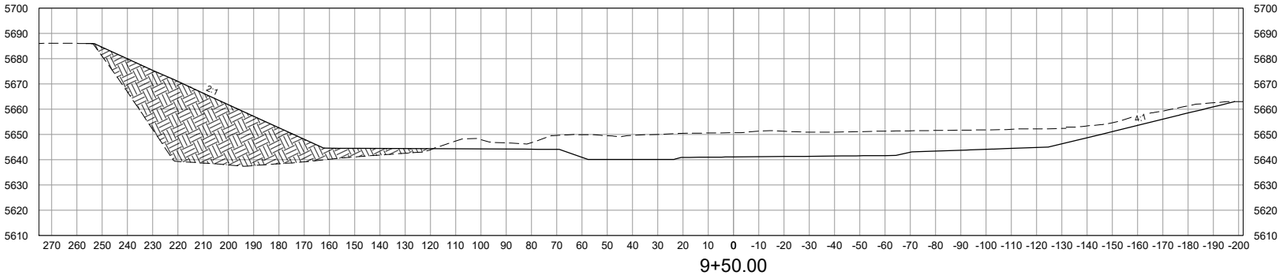

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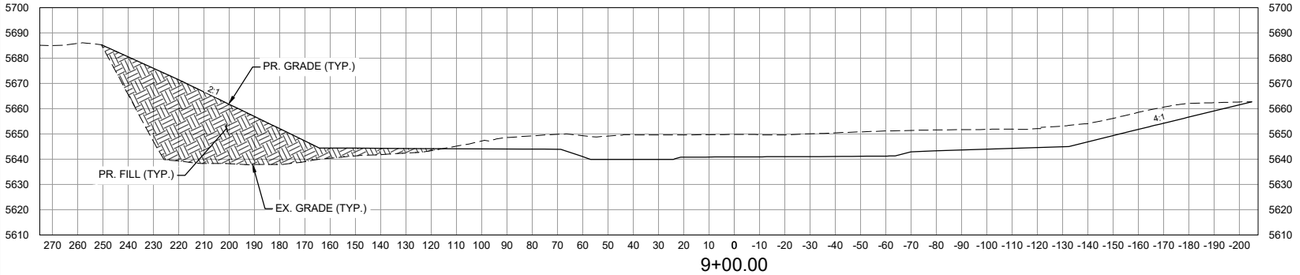

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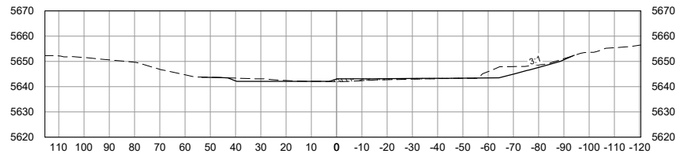

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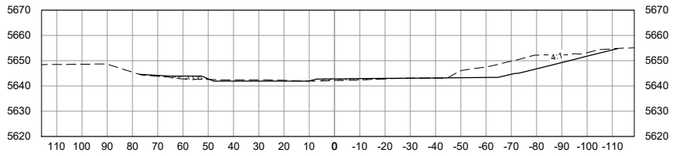

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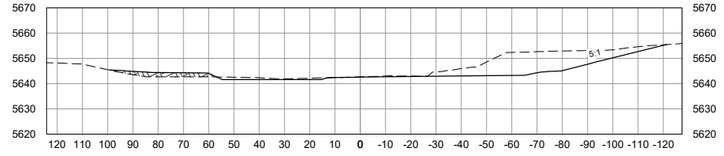

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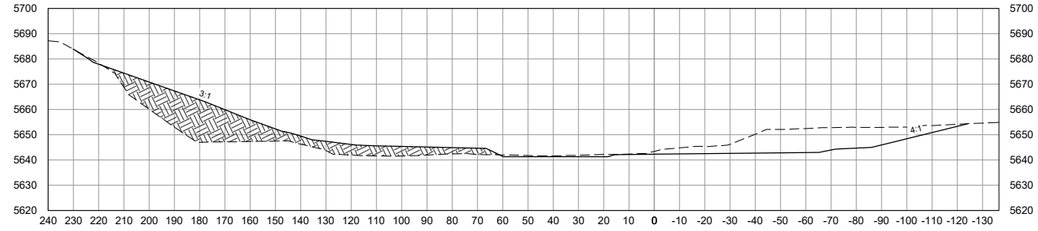

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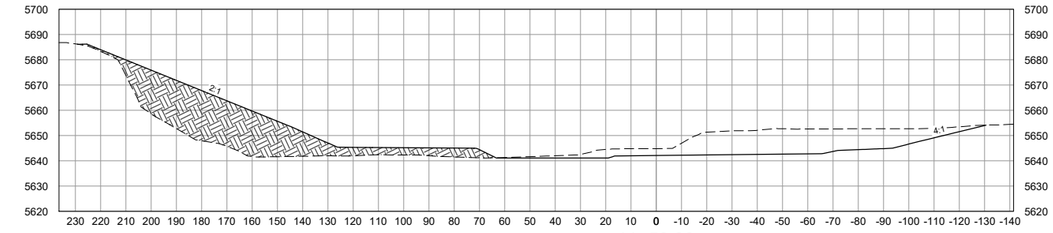

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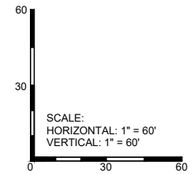

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X-526.036-IMAGE
X-526.036-PARCELS_no labels
X-526.036-MDG22x34
X-526.036-PR DESIGN STRUCTURES

No.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT

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PLOT DATE: April 25, 2023 9:27:35 AM
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FOUNTAIN CREEK WATERSHED · FLOOD CONTROL & GREENWAY DISTRICT ·

PREPARED BY: Matrix Excellence by Design

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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

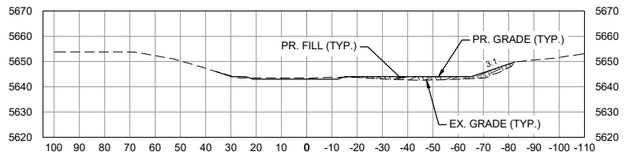
FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

CROSS SECTIONS STA 9+00 TO 13+50

DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	1" = 60'		
CHECKED BY:	AJS	VERT.	1" = 60'	SHEET	13 OF 25

DRAWING No. XS04



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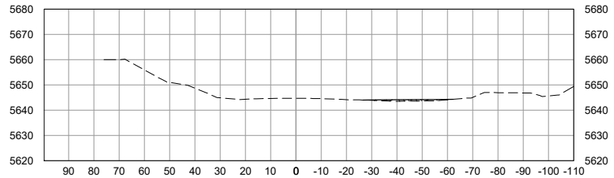
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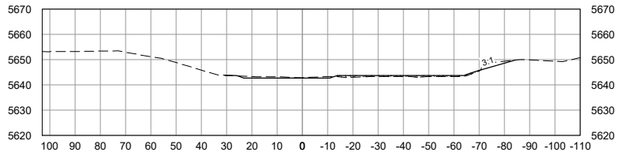

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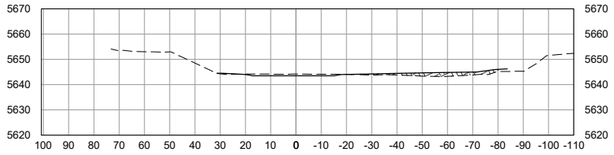
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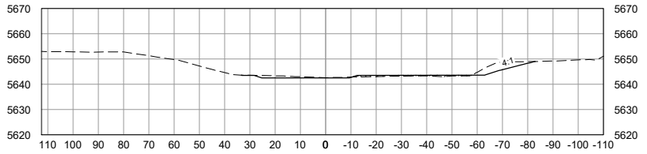

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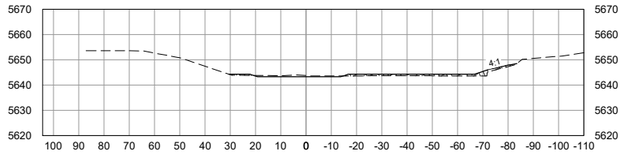

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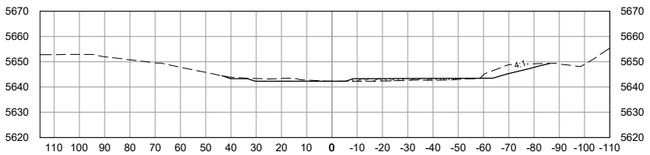
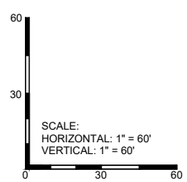


14+00.00

ALL CROSS SECTIONS SHOWN LOOKING DOWNSTREAM



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X-526.036-PR DESIGN STRUCTURES

NO.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT

FILE NAME: S:\23.526.036 Southmoor Dr Fountain Cr Channel Stabilization\500 CADD\504 Plan Sets\Construction Plans\WR Design Plans\526.036-XS01.dwg
CTB FILE: Matrix(black).ctb
PLOT DATE: April 25, 2023 9:29:04 AM
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PERMIT PLANSET

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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

PREPARED BY:
Matrix
Excellence by Design

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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

CROSS SECTION STA 14+00 TO 17+00

DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	1" = 60'		DRAWING No.
CHECKED BY:	AJS	VERT.	1" = 60'	SHEET 14 OF 25	XS05

EX. WATER LINE (TYP.)
EX. WOODEN FENCE (TYP.)
EX. CHAINLINK FENCE (TYP.)
EX. OVERHEAD ELECTRIC (TYP.)
SOUTHMOOR DRIVE
ROAD BARRIER (TYP.)
SOUTHMOOR DRIVE (CLOSED)
ELECTRIC (TYP.)
TOE WOOD PROTECTION WITH WRAPPED SOIL LIFTS SEE DT03
SLOPE PROTECTION SEE DT02
WILLOW BRUSH LAYERING (TYP.) SEE DT04
HERBACEOUS WETLAND PLUGS AND WILLOWS
PR LOW FLOW CHANNEL (TYP.)
LIMITS OF DISTURBANCE (TYP.)
PR. CHANNEL ALIGNMENT
EX. FOUNTAIN CREEK REGIONAL TRAIL
PR. CONSTRUCTED RIFFLE SEE DT05
EX. BARBED WIRE FENCE (TYP.) REMOVE WITHIN PROJECT EXTENTS AND REPLACE ALONG RELOCATED TRAIL AS NECESSARY.
PR. FOUNTAIN CREEK REGIONAL TRAIL REALIGNMENT
MATCHLINE RV02, STA 8+00
5670
5660
5650
5640
5680
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
12+00

LEGEND

2023-04-27 08:40

WETLAND SEED MIX SEE SEED MIX TABLE ON RV03 -	9,553 SF
RIPARIAN SEED MIX SEE SEED MIX TABLE ON RV03 -	70,786 SF
UPLAND SEED MIX SEE SEED MIX TABLE ON RV03 -	341,244 SF
COCONUT BLANKET NEDIA C400B -	412,030 SF
EROSION CONTROL FABRIC NEDIA KOIRMAT 900 + STRAW MULCH -	9,553 SF
SHRUB OVERSEED SEE SEED MIX TABLE ON RV03 -	341,244 SF
HERBACEOUS WETLAND PLUGS SEE SEED MIX TABLE ON RV03 -	10,734 SF

N

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 40 ft.

CONTOUR INTERVALS ARE 1' AND 5'

REFERENCE DRAWINGS
X-526.036-EX-SITE
X-526.036-EX-UTIL
X-526.036-IMAGE
X-526.036-PARCELS_no labels
X-526.036-MDG22x34
X-526.036-PR-REVEG
X-526.036-PR DESIGN STRUCTURES

No.	DATE	DESCRIPTION	BY

REVISIONS

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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

PREPARED BY: Matrix Excellence by Design

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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

REVEGETATION PLAN
STA 1+00 - 8+00

DESIGNED BY:	EEG	SCALE		DATE ISSUED:	APRIL 2023	DRAWING No.
DRAWN BY:	AMV	HORIZ.	1" = 40'			
CHECKED BY:	EEG	VERT.	1" = 16'	SHEET	15 OF 25	RV01

EX. ROAD BARRIER (TYP.)

SOUTHMOOR DRIVE (CLOSED)

SOUTHMOOR DRIVE

SLOPE PROTECTION SEE DT02

WILLOW BRUSH LAYERING (TYP.) SEE DT04

PR. FLOODPLAIN SILL SEE DT05

PR .TOE WOOD PROTECTION WITH WRAPPED SOIL LIFTS SEE DT03

PR. BENDWAY WEIR SEE DT03

HERBACEOUS WETLAND PLUGS AND WILLOWS

LIMITS OF DISTURBANCE (TYP.)

PR. LOW FLOW CHANNEL (TYP.)

EX. BARBED WIRE FENCE (TYP.) REMOVE WITHIN PROJECT EXTENTS AND REPLACE ALONG RELOCATED TRAIL

EX. FOUNTAIN CREEK REGIONAL TRAIL

PR. FOUNTAIN CREEK REGIONAL TRAIL REALIGNMENT

MATCHLINE RV01, STA 9+00

5650 5660 5670 5680 5640

5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00

LEGEND

2023-04-27 08:40

WETLAND SEED MIX SEE SEED MIX TABLE ON RV03 -	9,553 SF
RIPARIAN SEED MIX SEE SEED MIX TABLE ON RV03 -	70,786 SF
UPLAND SEED MIX SEE SEED MIX TABLE ON RV03 -	341,244 SF
COCONUT BLANKET NEDIA C400B -	412,030 SF
EROSION CONTROL FABRIC NEDIA KOIRMAT 900 + STRAW MULCH -	9,553 SF
SHRUB OVERSEED SEE SEED MIX TABLE ON RV03 -	341,244 SF
HERBACEOUS WETLAND PLUGS SEE SEED MIX TABLE ON RV03 -	10,734 SF

N

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)

1 inch = 40 ft.

CONTOUR INTERVALS ARE 1' AND 5'

REFERENCE DRAWINGS

X-526.036-EX-SITE
X-526.036-EX-UTIL
X-526.036-IMAGE
X-526.036-PARCELS_no labels
X-526.036-MDS22x34
X-526.036-PR-REVEG
X-526.036-PR DESIGN STRUCTURES

No.	DATE	DESCRIPTION	BY

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FILE NAME: S:\23.526.036 Southmoor Dr Fountain Cr Channel Stabilization\500 CADD\504 Plan Sets\Construction Plans\WR Design Plans\526.036-RV01.dwg
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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

PREPARED BY: Matrix Excellence by Design

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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

REVEGETATION PLAN
STA 8+00 - 18+00

DESIGNED BY:	EEG	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	AMV	HORIZ.	1" = 80'	DRAWING No.	RV02
CHECKED BY:	EEG	VERT.	1" = 16'	SHEET	16 OF 25

Wetland Seed Mix				Total: 9,553 SF		
Scientific Name	Variety	Common Name	PLS lbs/ac	% by Weight	PLS/sq ft	% of PLS/sq ft
Graminoids						
Carex nebrascensis	vns.	nebraska sedge	0.70	2	9	5
Distichlis spicata	vns.	inland saltgrass	1.50	5	18	10
Eleocharis palustris	vns.	creeping spikerush	0.50	2	7	4
Elymus canadensis	vns.	Canada wildrye	5.00	17	13	7
Juncus balticus	vns.	baltic rush	0.07	0	18	9
Panicum virgatum	vns.	switchgrass	2.00	7	18	10
Pascopyrum smithii	Arriba	western wheatgrass	4.50	15	11	6
Poa palustris	vns.	fowl bluegrass	0.20	1	14	8
Schoenoplectus pungens	vns.	common threesquare	2.00	7	10	5
Schoenoplectus tabernaemontani	vns.	softstem bulrush	1.20	4	15	8
Sporobolus airoides	vns.	alkali sacaton	0.40	1	16	9
		Graminoid Totals	**18.07**	**62**	**149**	**81**
Forbs						
Asclepias incarnata	vns.	swamp milkweed	5.00	17	8	4
Asclepias speciosa	vns.	showy milkweed	4.00	14	7	4
Helianthus nuttallii	vns.	Nuttall's sunflower	2.00	7	10	5
Solidago canadensis	vns.	Canada goldenrod	0.10	0	11	6
		Forb Totals	**11.10**	**38**	**35**	**19**
		Total	**29.17**	**100**	**184**	**100**
*vns. = variety not specified						

Upland Seed Mix				Total: 341,244 SF		
Scientific Name	Variety	Common Name	PLS lbs/ac	% by Weight	PLS/sq ft	% of PLS/sq ft
Graminoids						
Achnatherum hymenoides	vns.	Indian ricegrass	3.50	10	11	7
Andropogon hallii	vns.	sand bluestem	4.00	12	10	6
Bouteloua curtipendula	Butte	sideoats grama	2.50	7	11	6
Bouteloua gracilis	Hachita	blue grama	0.80	2	15	9
Elymus trachycaulus ssp. trachycaulus	vns.	slender wheatgrass	3.00	9	11	6
Koeleria macrantha	vns.	prairie junegrass	0.20	1	11	6
Nassella viridula	vns.	green needlegrass	3.00	9	12	7
Nassella viruda	vns.	green needlegrass	3.00	9	12	7
Pascopyrum smithii	Arriba	western wheatgrass	5.00	15	13	7
Pleuraphis jamesii	vns.	James' galleta	2.70	8	10	6
Schizachyrium scoparium	vns.	little bluestem	2.50	7	15	9
Sporobolus cryptandrus	vns.	sand dropseed	0.10	0	12	7
		Graminoid Totals	**30.30**	**90**	**143**	**84**
Forbs						
Artemisia ludoviciana	vns.	Lousiana sagewort	1.00	2	7	4
Dalea purpurea var. purpurea	vns.	purple prairie clover	0.07	0	7	4
Gaillardia aristata	vns.	blanketflower	4.00	8	4	2
Ratibida columnifera	vns.	upright prairie coneflower	1.20	2	7	4
Sphaeralcea coccinea	vns.	scarlet globemallow	3.00	6	5	3
		Forb Totals	**9.27**	**19**	**30**	**17**
		Total	**39.57**	**109**	**173**	**101**
*vns. = variety not specified						

Riparian Transition Seed Mix				Total: 70,786 SF		
Scientific Name	Variety	Common Name	PLS lbs/ac	% by Weight	PLS/sq ft	% of PLS/sq ft
Graminoids						
Achnatherum hymenoides	vns.	Indian ricegrass	3.00	7	10	6
Distichlis spicata	vns.	inland saltgrass	1.20	3	14	8
Elymus canadensis	vns.	Canada wildrye	4.00	10	11	6
Elymus trachycaulus ssp. trachycaulus	vns.	slender wheatgrass	3.00	7	11	6
Juncus balticus	vns.	baltic rush	0.05	0	13	7
Panicum obtusum	vns.	vine mesquite	2.50	6	8	5
Panicum virgatum	vns.	switchgrass	2.00	5	18	10
Pascopyrum smithii	Arriba	western wheatgrass	5.00	12	13	7
Schizachyrium scoparium	vns.	little bluestem	2.50	6	15	8
Sorghastrum nutans	vns.	yellow Indiangrass	2.50	6	10	6
Sporobolus airoides	vns.	alkali sacaton	0.30	1	12	7
Sporobolus cryptandrus	vns.	sand dropseed	0.10	0	12	7
		Graminoid Totals	**26.15**	**63**	**146**	**83**
Forbs						
Dalea purpurea var. purpurea	vns.	purple prairie clover	2.00	5	10	5
Helianthus annuus	vns.	common sunflower	5.00	12	5	3
Liatris punctata	vns.	dotted gayfeather	4.00	10	6	3
Solidago canadensis	vns.	Canada goldenrod	0.06	0	6	4
Vicia americana	vns.	American vetch	4.00	10	3	2
		Forb Totals	**15.06**	**37**	**30**	**17**
		Total	**41.21**	**100**	**176**	**100**
*vns. = variety not specified						

Shrub Overseed Mix				Total: 341,244 SF		
Scientific Name	Variety	Common Name	PLS lbs/ac	% by Weight	PLS/sq ft	% of PLS/sq ft
Shrubs						
Atriplex canescens	vns.	fourwing saltbush	3.00	25	3	14
Ericameria nauseosa	vns.	rubber rabbitbrush	0.50	4	5	21
Gutierrezia sarothrae	vns.	broom snakeweed	1.30	11	7	31
Krascheninnikovia lanata	vns.	winterfat	2.00	17	5	23
Rhus trilobata	vns.	skunkbush sumac	5.00	42	2	11
		Total	**11.80**	**100**	**22**	**100**
*vns. = variety not specified						

WETLAND AND RIPARIAN STABILIZATION PLUG MIX					Total: 10,734 SF
Scientific Name	Common Name	Percent Mix	Size	Spacing (O.C)	QTY
Carex nebrascensis	Nebraska Sedge	20	10 Cl	12"	2494
Distichilis spicata	InlandSaltgrass	20	10 Cl	12"	2494
Juncus balticus	Baltic Rush	10	10 Cl	12"	1247
Panicum virgatum	Switchgrass	20	10 Cl	24"	627
Schizachyrium scoparium	Little bluestem	10	10 Cl	18"	55
Scirpus validus	Soft-stem bulrush	20	10 Cl	18"	110
				Total	**7027**

REFERENCE DRAWINGS

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X-526.036-MDG22x34
X-526.036-PR-REVEG
X-526.036-PR DESIGN STRUCTURE

No.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT

FILE NAME: S:\23.526.036 Southmoor Dr Fountain Cr Channel Stabilization\500 CADD\504 Plan Sets\Construction Plans\WR Design Plans\526.036-RV01.dwg
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FOUNTAIN CREEK WATERSHED FLOOD CONTROL & GREENWAY DISTRICT

PREPARED BY: Matrix Excellence by Design

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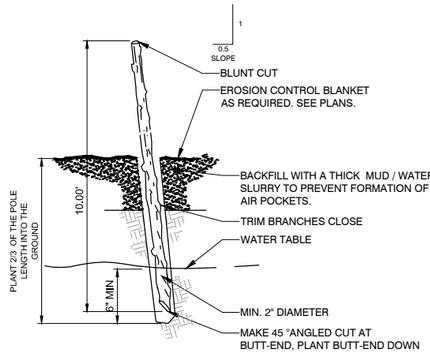
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

REVEGETATION PLAN SCHEDULES

DESIGNED BY: EEG
DRAWN BY: AMV
CHECKED BY: EEG
SCALE HORIZ. 1" = 80' VERT. 1" = 16'
DATE ISSUED: APRIL 2023
SHEET 17 OF 25
DRAWING No. RV03



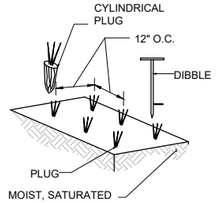
NOTES:

1. HARVEST AND PLANT POLES DURING THE DORMANT SEASON.
2. USE HEALTHY, STRAIGHT AND LIVE WOOD AT LEAST ONE YEAR OLD.
3. MAKE CLEAN CUTS WHEN HARVESTED. DO NOT DAMAGE POLES OR SPLIT ENDS DURING INSTALLATION. DAMAGED OR SPLIT POLES WILL NOT BE ACCEPTED.
4. BACKFILL WITH MUD SLURRY AND TAMP THE SOIL AROUND THE CUTTINGS.
5. THE HOLE FOR POLE PLACEMENT SHALL BE PRE-DUG AND ALLOWED TO SIT FOR 24-HOURS OR UNTIL GROUNDWATER IS CONFIRMED TO FILL A MIN. OF 6" AT THE BOTTOM OF THE HOLE. IF NO GROUNDWATER IS PRESENT, THE HOLE MUST BE DUG DEEPER UNTIL PRESENCE OF GROUNDWATER IS CONFIRMED.
6. WITH THE APPROVAL OF THE ENGINEER, A SUBSET OF COTTONWOOD POLES IN SIMILAR SITE AND SOIL CONDITIONS MAY BE PRE-DUG TO DETERMINE THE REQUIRED DEPTH TO EMBED COTTONWOOD POLES A MIN. 6" INTO THE WATER TABLE.

1 COTTONWOOD POLES

NTS

MS-STD-REV-01



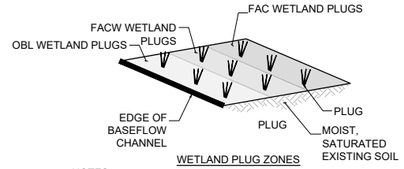
CYLINDRICAL CONTAINER PLUGS

NOTES:

1. DROP WOODEN DIBBLE STICK WITH APPROPRIATELY SIZED STEEL END INTO SOIL AT SPECIFIED SPACING FROM OTHER PLUGS.
2. STEP ON STEEL FOOT PLATE TO CREATE DEEPER HOLE. REMOVE DIBBLE STICK.
3. REMOVE WETLAND PLUG FROM CONTAINER AND PLANT ROOTS DOWN.
4. DO NOT FOLD OR BEND ROOTS. PLANT TO FULL DEPTH.
5. COVER NURSERY SOIL AROUND PLANT WITH ½" TO 1" NATIVE SOIL
6. TAMP ON SOIL AROUND PLANT TO SECURE.

NOTES:

1. UPON ARRIVAL CHECK THAT WETLAND PLUGS ARE HEALTHY, MOIST, AND FREE OF INJURIES OR INSECT DAMAGE.
2. KEEP WETLAND PLUGS MOIST AND SHADED BEFORE PLANTING.
3. SOILS SHOULD BE MOIST TO SATURATED BEFORE PLANTING.
4. WATER THE PLANTED AREA AFTER PLANTING IF NEEDED.
5. INSTALL WATERFOWL GRAZING CONTROL AS REQUIRED.



WETLAND PLUG ZONES

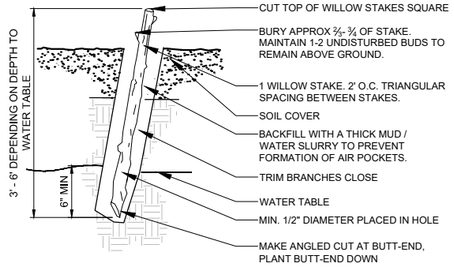
NOTES:

OBL PLUGS SHALL BE PLANTED CLOSEST THE CHANNEL AND FAC PLUGS SHALL BE PLANTED FURTHEST FROM THE CHANNEL. FACW PLUGS SHALL BE PLANTED BETWEEN THE OBL AND FAC PLUGS.

2 WETLAND PLUGS

NTS

MS-STD-REV-02



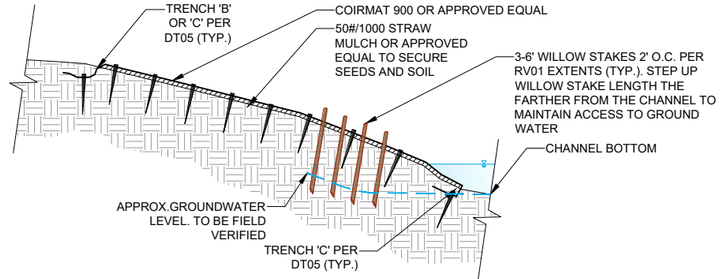
NOTES:

1. HARVEST AND PLANT STAKES DURING THE DORMANT SEASON AFTER FIRST FROST AND BEFORE LAST FROST DEPENDENT ON SITE ELEVATION. HARVEST FROM WITHIN THE WATERWAY IN CLOSE PROXIMITY TO THE PROJECT AREA.
2. WILLOWS TO BE SPECIES ENDEMIC TO PROJECT AREA OR "SALIX EXIGUA" (SANDBAR WILLOW), EXCLUDING NON-NATIVE SPECIES.
3. MAKE CLEAN CUTS AND DO NOT DAMAGE STAKES OR SPLIT ENDS DURING INSTALLATION. DAMAGED STAKES MAY BE REJECTED.
4. USE A PILOT BAR OR OTHER METHOD WHEN INSTALLING IN FIRM SOILS.
5. SOAK STAKES FOR 7-14 DAYS PRIOR TO INSTALLATION. SOAKING IS NOT REQUIRED FOR VERTICAL WILLOW STAKES IF INSTALLED WITHIN ONE HOUR OF HARVESTING.
6. ALL VERTICAL WILLOW STAKES SHALL BE PLANTED 2' O.C. IN TRIANGULAR SPACING UNLESS OTHERWISE NOTED. SPACING SHOULD BE ADJUSTED AS NECESSARY SO HOLE FOR STAKE PLACEMENT IS ABLE TO REACH GROUNDWATER. INFORM PROJECT LANDSCAPE ARCHITECT/ECOLOGIST IF MAJOR DISCREPANCIES IN WILLOW STAKING LOCATIONS OCCURS DUE TO GROUNDWATER AVAILABILITY ISSUES.
7. THE HOLE FOR STAKE PLACEMENT SHALL BE PRE-DUG AND ALLOWED TO SIT FOR 24-HOURS OR UNTIL GROUNDWATER IS CONFIRMED TO FILL A MIN. OF 6" AT THE BOTTOM OF THE HOLE. IF NO GROUNDWATER IS PRESENT, THE HOLE MUST BE DUG DEEPER OR IN A DIFFERENT LOCATION UNTIL PRESENCE OF GROUNDWATER IS CONFIRMED. WILLOW STAKES SHALL NOT BE PLACED IN HOLES OR LOCATIONS THAT DO NOT CONTAIN PRESENCE OF GROUNDWATER OR SATURATED SOILS.

3 WILLOW STAKES

NTS

MS-STD-REV-03



NOTES:

1. PLACE COIR MATTING OVER PLANTED AND SEEDED AREAS. REFER TO PLANS FOR LIMIT.
2. OVERLAP SEAMS OF COIR MAT TO "SHINGLE" DOWNSTREAM. STAKE COIR MATTING AT 2' O.C. WITH 24" WOODEN STAKES. NO SUBSTITUTES WILL BE ALLOWED FOR WOODEN STAKES.
3. UPPER, LOWER, AND OUTEREDGE OF COIR MAT MUST BE STAKED 2' O.C. 10" FROM EDGES TO REDUCE TEARING. COVER ALL EDGES.

4 WILLOW STAKES - SECTION

NTS

MS-STD-REV-04

REFERENCE DRAWINGS

X-526.036-EX-SITE
X-526.036-EX-UTIL
X-526.036-IMAGE
X-526.036-PARCELS_no labels
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X-526.036-PR-REVEG
X-526.036-PR DESIGN STRUCTURES

No.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT

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CTB FILE: Matrix(black).ctb
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PERMIT PLANSET

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FOUNTAIN CREEK WATERSHED
FLOOD CONTROL & GREENWAY DISTRICT

PREPARED BY:
Matrix
Excellence by Design

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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

REVEGETATION PLAN DETAILS

DESIGNED BY:	EEG	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	AMV	HORIZ.	1" = 80'		
CHECKED BY:	EEG	VERT.	1" = 16'	SHEET	18 OF 25

DRAWING No. RV04

REVEGETATION NOTES

GENERAL

1. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE FREE OF NOXIOUS SPECIES, UNDESIRABLE SPECIES AS DEFINED IN THE SEEDING SPECIFICATION, AND AGGRESSIVE NON-NATIVE SPECIES INCLUDING BUT NOT LIMITED TO CHEATGRASS, KOCHIA, SMOOTH BROME, AND RUSSIAN THISTLE.
2. ALL MATERIALS SHALL BE FURNISHED IN ORIGINAL MANUFACTURER'S SHIPPING BAGS OR CONTAINERS AND REMAIN IN THESE BAGS OR CONTAINERS UNTIL THEY ARE USED. ALL MATERIALS SHALL BE STORED IN A MANNER THAT WILL PREVENT THEM FROM COMING INTO CONTACT WITH PRECIPITATION, SURFACE WATER, OR ANY OTHER CONTAMINATING SUBSTANCE. ANY MATERIALS THAT HAVE BECOME WET, MOLDY, OR OTHERWISE DAMAGED IN TRANSIT OR IN STORAGE SHALL NOT BE USED.
3. AFTER ROUGH GRADING HAS BEEN COMPLETED, A MINIMUM OF THREE (3) COMPOSITE SOIL SAMPLES, ONE (1) FROM EACH OF THE SEED MIX AREA(S) SUBSOILS AND ONE (1) FROM THE TOPSOIL STOCKPILE, SHALL BE COLLECTED FROM THE PROJECT AREA AND SUBMITTED FOR SOIL FERTILITY AND TEXTURE TESTING PRIOR TO APPLICATION OF SOIL CONDITIONER, SEEDING, OR PLANTING. EXACT LOCATIONS OF SAMPLES TO BE DETERMINED BY THE PROJECT ENGINEER. A RECOMMENDED SOIL CONDITIONING AMENDMENT AND APPLICATION RATE SHALL BE DETERMINED BASED ON THE SOIL TEST RESULTS. NO SOIL CONDITIONING, SEEDING, OR PLANTING SHALL OCCUR PRIOR TO SOIL TEST AND UNTIL A SOIL CONDITIONING AMENDMENT IS ACCEPTED.
4. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REVEGETATED AND EROSION CONTROL APPLIED.

TOPSOIL

1. IF THE SOIL FERTILITY TESTING INDICATES NATIVE TOPSOIL MEETS THE MINIMUM SPECIFICATIONS, NATIVE MATERIAL MAY BE REUSED UNAMENDED AS DETERMINED BY THE PROJECT ENGINEER. IF SOIL FERTILITY TESTING INDICATES NATIVE TOPSOIL DOES NOT MEET MINIMUM SPECIFICATIONS, THE PROJECT ENGINEER SHALL CONFIRM THE REQUIRED APPLICATION RATE OF COMPOST AMENDMENT OR SOIL CONDITIONER PER THE CONSTRUCTION DOCUMENTS AS NECESSARY TO MEET THE MINIMUM SPECIFICATIONS.
2. TOPSOIL SHALL BE PLACED TO A MINIMUM DEPTH OF SIX (6) INCHES ON ALL DISTURBED AREAS. WHERE SOIL AMENDMENT IS REQUIRED, IT SHALL BE EVENLY DISTRIBUTED AND TILLED TO A DEPTH OF NINE (9) INCHES MINIMUM OR AS SPECIFIED BY THE PRODUCT MANUFACTURER INSTRUCTIONS. IF DEPTH IS NOT POSSIBLE, NOTIFY PROJECT ENGINEER IMMEDIATELY. RECOMMENDATIONS OR MODIFICATIONS TO DEPTH OF TOPSOIL SHALL BE DETERMINED BY THE PROJECT ENGINEER BASED ON THE SOIL TEST RESULTS. NO SOIL CONDITIONING, SEEDING, OR PLANTING SHALL OCCUR PRIOR TO SOIL TEST AND UNTIL TOPSOIL TESTING IS ACCEPTED.
3. WITHIN THE PROJECT AREA, ANY AREAS WITH ADEQUATE TOPSOIL SHALL BE SALVAGED AND STOCKPILED FOR REUSE.

SOIL AMENDMENT AND SITE PREPARATION

1. FOR BIDDING PURPOSES, IT IS ASSUMED ALL SEEDING AREAS OUTSIDE OF 10 FEET FROM THE ACTIVE WATERWAY SHALL BE AMENDED WITH 2 CUBIC YARDS OF ORGANIC, WEED FREE, CLASS A COMPOST PER 1,000 S.F AND ALL SEEDING AREAS, INCLUDING ALONG THE ACTIVE WATERWAY, SHALL BE AMENDED WITH HUMATE SOIL CONDITIONER THAT SHALL BE APPLIED AT A RATE OF 250 POUNDS PER ACRE. HUMATE SOIL CONDITIONER WILL BE APPLIED AT A RATE OF 250 POUNDS PER ACRE AND SHALL BE TOPICALLY APPLIED OR AS SPECIFIED BY THE PRODUCT MANUFACTURER INSTRUCTIONS. FINAL COMPOST AMENDMENT AND SOIL CONDITIONER APPLICATION RATES SHALL BE CONFIRMED BY THE PROJECT ENGINEER FROM THE RESULTS OF THE SOIL FERTILITY TESTS.
2. COMPOST: COMPOST SHALL BE CLASS A AS DEFINED BY CFR TITLE 40, PART 503 OR CLASS 1 AS DESCRIBED IN THE TABLE BELOW. THE AMOUNT OF COMPOST ADDED TO THE SOIL MAY VARY DEPENDING ON SOIL TEST RESULTS.

Compost Parameters	Reported As	Requirements	Test Method
pH	pH units	6.0 - 8.4	TMECC 04.11-A
Soluble Salts (Electrical Conductivity)	dS m^{-1} or mmhos cm^{-1}	0-3 mmhos/cm	TMECC 04.11-A
Moisture Content	%, wet weight basis	35 - 60%	TMECC 03.09-A
Organic Matter Content	%, dry weight basis	30 - 70%	TMECC 05.07-A
Particle Size (Sieve Sizes)	%, dry weight basis for each sieve fraction	Passing 1 inch - 100% 1/2 inch - 95%	TMECC 02.02-B
Man-made Inert Contamination	%, dry weight basis	< 1%	TMECC 03.08-A
Stability (Respirometry)	mg CO_2 - C per g TS per day mg CO_2 - C per g OM per day	8 or below	TMECC 05.08-B
Select Pathogens	(PASS/FAIL) Limits: Salmonella < 3 MPN/4grams of TS, or Coliform Bacteria <1000 MPN/gram	Pass	TMECC 07.01-B Fecal Coliforms, or 07.02 Samonella
Trace Metals	(PASS/FAIL) Limits (mg kg^{-1} dw basis): As 41, Cd 39, Cu 1500, Pb 300, Hg 17, Ni 420, Se 100, Zn 2800	Pass	TMECC 04.06
Maturity (Bioassay) Percent	%, (average)	> 80%	TMECC 05.05-A
Emergency Relative Seedling Vigor	%, (average)	> 80%	

Notes: The Contractor shall provide a CTR in accordance with subsection 106.13 of CDOT standard specifications confirming that the material has been tested in accordance with TMECC.

3. HUMATE SOIL CONDITIONER, NATURAL MINERAL, CARBON, AND HUMIC ACID-BASED SOIL CONDITIONER SHOULD HAVE THE FOLLOWING CHARACTERISTICS:
   HUMIC ACIDS >50%
   ORGANIC MATTER >85%
   1%N, <0.1% AS P2O5, <0.10%K AS K2O
   PH 3.4
   APPLICATION RATE IS ASSUMED TO BE 250 LBS/ACRE FOR BIDDING PURPOSES BUT IS DEPENDENT ON SOIL TEST RESULTS. HUMATE WORKS BEST WHEN MINIMUM DAILY SOIL TEMPERATURES REACH 55°F. HUMATE CONDITIONERS MUST BE THOROUGHLY MIXED INTO SOIL.
4. CONTRACTOR SHALL SUBMIT A LAB TEST OF COMPOST SAMPLE TO BE USED FOR APPROVAL. LAB TEST OF COMPOST SHALL BE TAKEN FROM THE SAME SOURCE THAT IS TO BE USED ON THIS PROJECT. LAB TEST SHALL BE TAKEN A MAXIMUM OF SIX (6) MONTHS PRIOR TO APPLICATION. THE COMPOST SHALL BE TESTED IN ACCORDANCE WITH THE U.S. COMPOSTING COUNCIL'S TEST METHODS FOR EXAMINING OF COMPOSTING AND COMPOST (TMECC) MANUAL.
5. ALL DISTURBED AREAS SHALL BE RIPPED TO A MINIMUM DEPTH OF NINE (9) INCHES, WITH NO MORE THAN A TEN (10) INCH INTERVAL BETWEEN FURROWS. SLOPES FLATTER THAN 2:1 SHALL HAVE A WELL SETTLED SEEDBED EIGHT (8) INCHES DEEP. SLOPES 2:1 OR STEEPER SHALL BE LEFT IN A ROUGHENED CONDITION.
6. SLOPES SHALL BE FREE OF SOIL CLODS, STICKS, STONES, AND DEBRIS IN EXCESS OF FOUR (4) INCHES IN ANY DIMENSION, AND BE BROUGHT TO THE DESIRED GRADE AND LINE. SOIL PREPARATION FOR SEEDING SHALL NOT OCCUR WHEN SOIL IS FROZEN OR IN AN EXTREME WET OR DRY CONDITION.
7. DRAGGING EXCAVATOR TEETH IS NOT AN ACCEPTABLE METHOD FOR RIPPING.

SEEDING

1. CONTRACTOR IS RESPONSIBLE TO MEET THE SUCCESS RATE OF SEEDING ESTABLISHMENT AS DEFINED IN THE SPECIFICATIONS.
2. SEED MIXES SHALL BE INSTALLED WITH A TWO FOOT OVERLAP BETWEEN SEED AREAS.
3. NATIVE SEEDING SHALL BE RESTRICTED TO BETWEEN SPRING THAW AND JUNE 1 AND BETWEEN OCTOBER 1 UNTIL CONSISTENT GROUND FREEZE AND SHALL NOT BE APPLIED DURING INCLEMENT WEATHER INCLUDING RAIN AND HIGH WINDS, OR WHEN SOIL MOISTURE IS TOO HIGH TO EVENLY DISTRIBUTE SEED.
4. SEEDING SHALL BE ACCOMPLISHED WITHIN 24 HOURS OF PREPARING THE SEEDING SURFACE.
5. DRILL SEEDING OR BROADCAST SEEDING SHALL BE USED FOR REVEGETATION. THE SIZE AND SLOPE OF THE DISTURBED AREA SHALL DETERMINE WHICH SEEDING METHOD(S) IS APPROPRIATE AND ACCEPTABLE. WHERE FEASIBLE, DRILL SEEDING IS THE REQUIRED METHOD. IF BROADCAST SEEDING IS EMPLOYED, EITHER BY HAND, SPREADER, OR OTHER APPROVED MEANS, THE SEEDING RATE (PLS LBS/ACRE) SHALL BE DOUBLED AS SHOWN ON THE DESIGN PLAN. HYDROMULCHING, HYDRAULIC SEEDING, AND STRAW MULCHING WILL NOT BE ACCEPTED UNLESS APPROVED BY THE PROJECT ENGINEER.
6. FOR SLOPES EQUAL TO OR LESS THAN 3:1, SEED SHALL BE PLANTED USING A RANGELAND DRILL WITH A SMALL SEED/LEGUME BOX AND AN AGITATOR BOX FOR FLUFFY OR BULKY SEED. SEED ROWS SHALL BE SPACED SEVEN (7) TO TEN (10) INCHES APART, AND PLANTED ½ INCH TO ¾ INCH DEEP. THE DRILL SHALL HAVE DOUBLE-DISK FURROW OPENERS WITH DEPTH BANDS AND PACKER WHEELS. SEEDING SHALL BE ACCOMPLISHED USING BI-DIRECTIONAL DRILLING AND WITH THE SECOND DIRECTION FOLLOWING THE SLOPE CONTOUR. THE DRILL EQUIPMENT SHALL BE CALIBRATED EACH DAY OR WHENEVER THERE IS A CHANGE IN THE SEED MIX TO ENSURE PROPER SEED DISTRIBUTION AND RATE.
7. FOR SLOPES GREATER THAN 3:1, SEED SHALL BE BROADCAST BY HAND OR MECHANICAL SPREADER. ALL SEED SOWN BY BROADCAST-TYPE SEEDERS SHALL BE RAKED IN OR COVERED WITH SOIL TO A DEPTH OF AT LEAST ¼ INCH. BROADCAST SEEDING SHALL PROCEED ON FRESHLY DISTURBED (RAKED OR HARROWED) SOIL SURFACE AND BROADCAST SEED SHALL BE IMMEDIATELY RAKED OR HARROWED INTO THE SURFACE. RAKING SHALL BE ACCOMPLISHED USING METAL-TINED GARDEN OR LANDSCAPE RAKES; NO PLASTIC LEAF RAKES SHALL BE ALLOWED. IF HARROWING IS USED, AN ENGLISH HARROW OR ITS EQUIVALENT SHALL BE REQUIRED. BROADCAST SEEDING SHALL BE AVOIDED WHEN WIND SPEED EXCEEDS 15 MILES-PER-HOUR.
8. FOLLOWING SEEDING, ALL SEEDED AREAS SHALL BE WATERED SUFFICIENTLY AS TO SATURATE THE SOILS.
9. FOLLOWING SEEDING, HEAVY MACHINERY SHALL NOT BE DRIVEN ACROSS SEEDED AREAS TO AVOID RE-COMPACTION OF SOILS.
10. ACCESS ROUTES SHALL BE REVEGETATED AFTER CONSTRUCTION. SEED AND BLANKET ALONG ACCESS SHOULD MATCH HYDROLOGIC ZONES AS SHOWN IN REVEGETATION PLANS AND AS DIRECTED BY THE PROJECT ENGINEER.
11. CONTRACTOR SHALL BE REQUIRED TO SUBMIT SIGNED STATEMENTS OF GUARANTEE, SEED CERTIFICATIONS, AND SEED LOT ANALYSIS FROM VENDORS WHO SUPPLY SEED AND SOIL CONDITIONER. SEED CERTIFICATION SHOULD PROVIDE INFORMATION THAT THE SEED FURNISHED IS FROM A LOT THAT HAS BEEN TESTED BY A RECOGNIZED LABORATORY FOR SEED TESTING WITHIN TWELVE (12) MONTHS PRIOR TO THE DATE OF SEEDING.
12. ALL SEED SHALL BE FURNISHED IN BAGS OR CONTAINERS CLEARLY AND PROPERLY LABELED TO SHOW THE NAME AND ADDRESS OF THE SUPPLIER, THE SEED NAME, THE LOT NUMBER, NET WEIGHT, ORIGIN, THE PERCENT OF WEED SEED CONTENT, THE GUARANTEED PERCENTAGE OF PURITY AND GERMINATION, POUNDS OF PURE LIVE SEED (PLS) OF EACH SEED SPECIES, AND THE TOTAL POUNDS OF PLS IN THE CONTAINER. ALL SEED SHALL BE GUARANTEED FOR PURITY AND GERMINATION, FREE OF NOXIOUS WEED SEED AND SUPPLIED ON A PURE LIVE SEED (PLS) BASIS.
13. ANY SUBSTITUTIONS OF SEED SPECIES MUST BE APPROVED BY THE PROJECT ENGINEER PRIOR TO DELIVERY OF SEED TO CONSTRUCTION SITE.
14. SEEDING OR PLANTING SHALL NOT OCCUR WHEN THE GROUND IS MUDDY, FROZEN, WHEN FREEZING TEMPERATURES ARE FORECASTED WITHIN 24 HOURS, OR WHEN CONDITIONS ARE OTHERWISE UNSUITABLE.

WILLOW STAKING

1. LIMITS FOR WILLOW STAKING SHALL BE LOCATED AND APPROVED BY THE PROJECT ENGINEER PRIOR TO INSTALLATION AS LOCATIONS AND ELEVATIONS ARE CRITICAL FOR PLANT SUCCESS.
2. WILLOW STAKES SHALL BE HARVESTED FROM APPROPRIATE LOCATIONS AS DESCRIBED IN THE SPECIFICATIONS IN AREAS WITHIN 1,000 VERTICAL FEET OF ELEVATION AND OF SIMILAR HYDROLOGY TO THOSE EXISTING AT THE PLANTING SITE. IF A SUFFICIENT NUMBER OF WILLOW CUTTINGS ARE NOT AVAILABLE AT OR NEAR THE PLANTING SITE, THE CONTRACTOR WILL COLLECT THE REQUIRED WILLOW CUTTINGS AT AN ACCEPTABLE SITE WITH APPROVAL OF THE PROPERTY OWNER (AS APPLICABLE) AND TRANSPORT THEM TO THE PLANTING SITE.
   a. WILLOW COLLECTION SITES SHALL BE A MINIMUM OF ONE-QUARTER ACRE IN SIZE, WITH MATURE WILLOW STANDS. NO MORE THAN TWENTY (20) PERCENT OF MIDDLE AGE PLANT MATERIAL SHALL BE TAKEN FROM THE SITE UNLESS THE PLANT WILL BE REMOVED OR TRANSPLANTED DURING EXCAVATION AND GRADING. WRITTEN CONSENT FROM THE PROPERTY OWNER MUST BE RECEIVED IN AREAS WHERE HARVESTING WILL OCCUR,AND WILL SPECIFY IF IT IS BENEFICIAL TO TAKE MORE THAN TWENTY (20) PERCENT OF THE PLANT MATERIAL.
   b. CUTTINGS SHALL BE MAINTAINED IN A SHADED, MOIST, AND COOL CONDITION FROM THE TIME OF HARVEST THROUGH THE TIME OF INSTALLATION, INCLUDING DURING TRANSPORTATION AND UPON DELIVERY TO THE SITE. THE CUTTINGS WILL BE KEPT WET UNTIL PLACED INTO THE GROUND AND WILL NOT BE ALLOWED OUT OF WATER FOR MORE THAN TEN MINUTES DURING PLANTING.

EROSION CONTROL

1. ALL EROSION CONTROL FABRIC, BLANKET, OR MATTING SHALL BE INSTALLED PERPENDICULAR TO THE CHANNEL UNLESS OTHERWISE APPROVED BY THE PROJECCCT ENGINEER.
2. CONTRACTOR SHALL SUBMIT SAMPLES OF THE EROSION CONTROL FABRIC, BLANKET, AND/OR MATTING, GROUND ANCHORING DEVICES, AND METHOD OF ANCHORING PRIOR TO INSTALLATION FOR APPROVAL.

REFERENCE DRAWINGS
X-526.036-EX-SITE
X-526.036-EX-UTIL
X-526.036-IMAGE
X-526.036-PARCELS_no labels
X-526.036-MDG22x34
X-526.036-PR-REVEG
X-526.036-PR DESIGN STRUCTURES

No.	DATE	DESCRIPTION	BY

REVISIONS

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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

PREPARED BY: Matrix Excellence by Design

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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

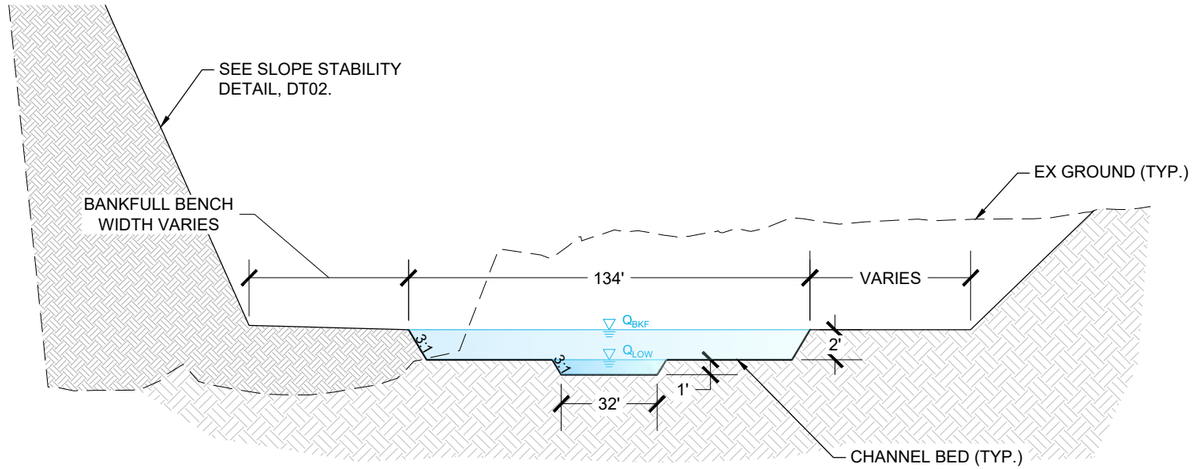
FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

REVEGETATION PLAN NOTES

DESIGNED BY:	EEG	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	AMV	HORIZ.	1" = 80'		
CHECKED BY:	EEG	VERT.	1" = 16'	SHEET	19 OF 25

DRAWING No. RV05

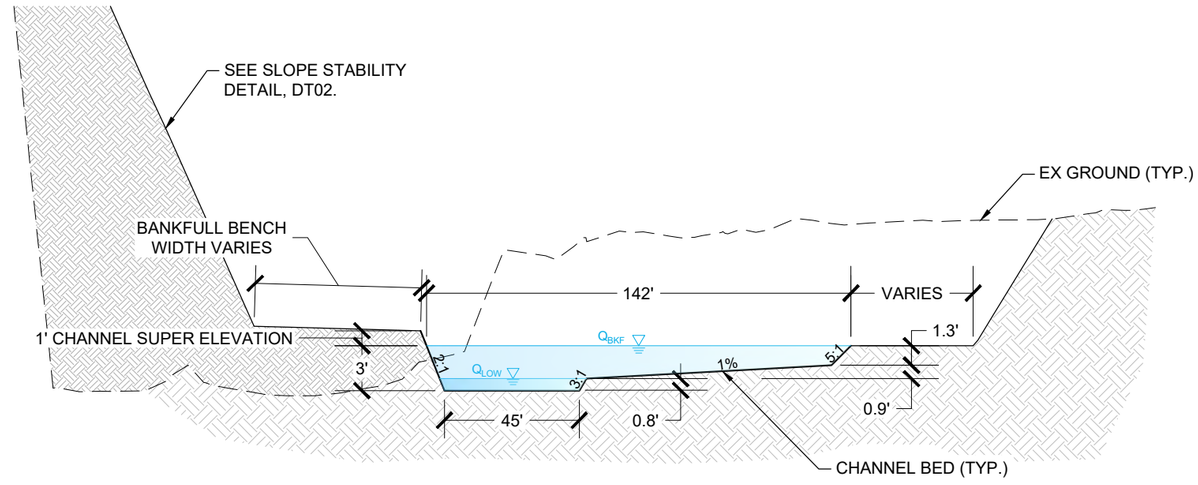


DESIGN CHANNEL TYPICAL SECTION

NOT TO SCALE

NOTE: 5:1 VERTICAL EXAGGERATION

Q_{BKF} = 2,000 CFS
Q_{LOW} = 123 CFS



DESIGN CHANNEL TYPICAL SECTION (AT POINT BAR)

NOT TO SCALE

NOTE: 5:1 VERTICAL EXAGGERATION

Q_{BKF} = 2,000 CFS
Q_{LOW} = 123 CFS

REFERENCE DRAWINGS

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FOUNTAIN CREEK WATERSHED FLOOD CONTROL & GREENWAY DISTRICT

PREPARED BY:
Matrix
Excellence by Design

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PROJECT No. 23.526.036

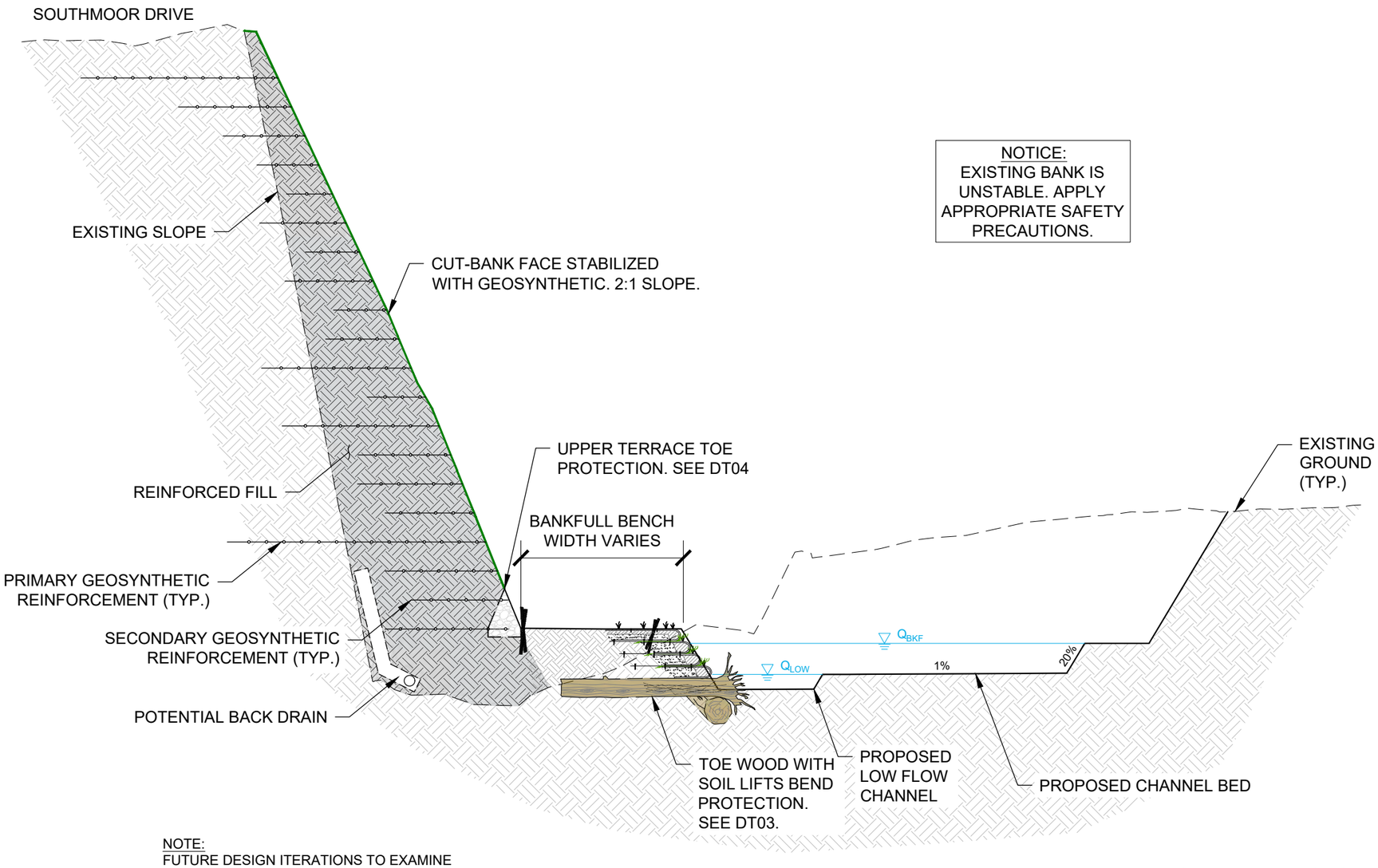
FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

TYPICAL CROSS SECTIONS

DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	N/A	SHEET	20 OF 25
CHECKED BY:	AJS	VERT.	N/A		

DRAWING No. DT01



NOTICE:
EXISTING BANK IS UNSTABLE. APPLY APPROPRIATE SAFETY PRECAUTIONS.

NOTE:
FUTURE DESIGN ITERATIONS TO EXAMINE ADDITIONAL TERRACING OF CUTBANK SLOPE.

Q_{BKF} = 2,000 CFS
Q_{LOW} = 123 CFS

SLOPE STABILITY TYPICAL SECTION (AT POINT BAR)

NOT TO SCALE

NOTE: 5:1 VERTICAL EXAGGERATION

REFERENCE DRAWINGS
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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

PREPARED BY:
Matrix Excellence by Design

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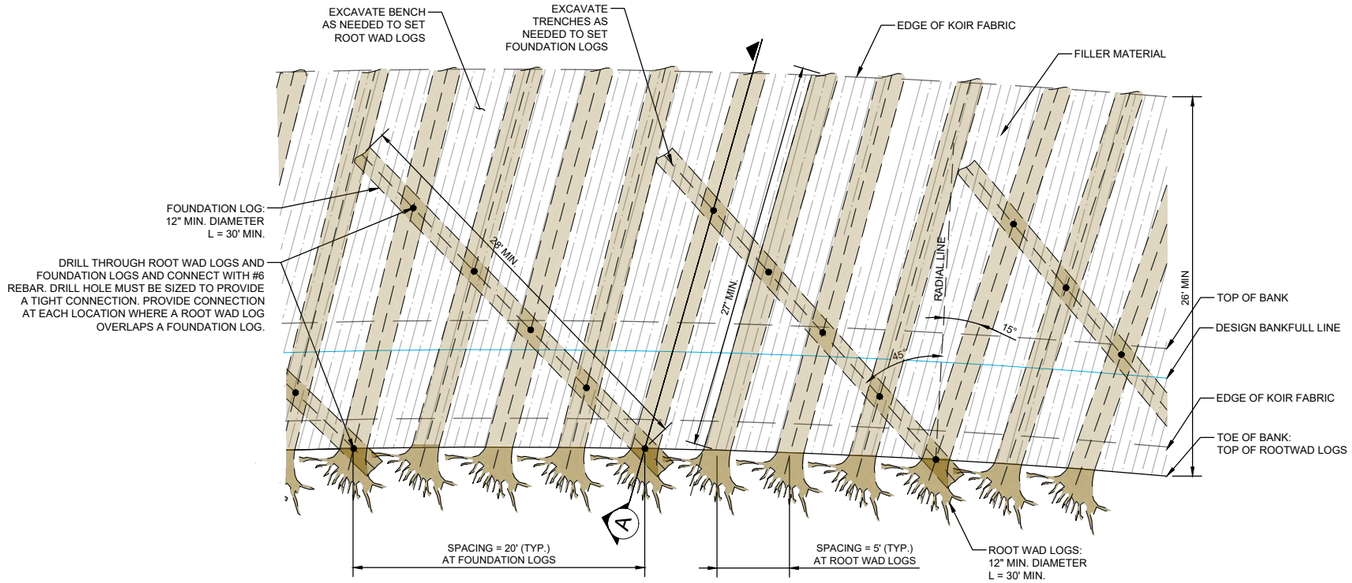
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

SLOPE STABILITY DETAIL

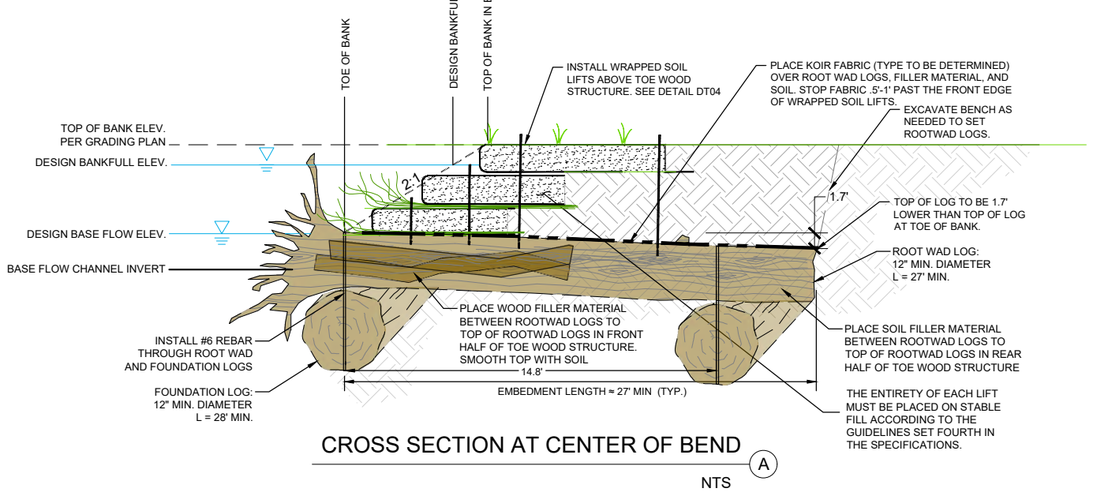
DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	N/A	DRAWING No.	DT02
CHECKED BY:	AJS	VERT.	N/A	SHEET	21 OF 25



PLAN VIEW

NTS

FLOW



CROSS SECTION AT CENTER OF BEND (A)

NTS

NOTES:

1. LOG DIAMETERS SHALL BE BASED ON THE DIAMETER AT BREAST HEIGHT (DBH), WHICH IS THE DIAMETER AT 4.5 FEET ABOVE THE ROOT FLARE.
2. ATTACH KOIR FABRIC TO EVERY OTHER ROOTWAD LOG WITH 6 INCH GALVANIZED STEELSPIKES WITH 1-1/2 INCH GALVANIZED STEEL WASHERS SPACED 3' O.C. USE 9 SPIKES AND WASHERS PER ROOT WAD LOG WITH FIRST AND LAST SPIKES 1.5' FROM EDGE OF KOIR FABRIC.
3. FILLER MATERIAL MAY VARY IN SIZE FROM 2 INCH TO 12 INCH DIAMETER, WITH LARGER MATERIAL PREFERRED. FILLER MATERIALS SHALL NOT EXTEND ABOVE TOP OF ROOT WAD LOGS. UPPER LAYER OF FILLER MATERIAL MAY BE COVERED WITH SMALL DIAMETER SLASH MATERIAL. COVER WOOD FILLER MATERIAL WITH NATIVE SOIL TO THE TOP OF THE ROOT WAD LOGS.
4. TRANSITION TOE WOOD STRUCTURES AT UPSTREAM AND DOWNSTREAM LIMITS PER TOE WOOD KEY-IN DETAIL (TO BE PROVIDED AT LATER DESIGN STAGE).
5. ROOT WAD LOGS SHALL BE PLACED SO THAT THE ELEVATION AT TOP OF THE LOG AT THE LOCATION OF THE TOE OF BANK IS WITHIN 6 INCHES (+/-) OF THE DESIGN ELEVATION. THE SELECTION AND PLACEMENT OF THE FOUNDATION AND ROOTWAD LOGS MUST BE DONE TO MEET THIS REQUIREMENT.

TOE WOOD STRUCTURE DETAILS

NTS

REFERENCE DRAWINGS

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FOUNTAIN CREEK WATERSHED FLOOD CONTROL & GREENWAY DISTRICT

PREPARED BY: Matrix Excellence by Design

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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

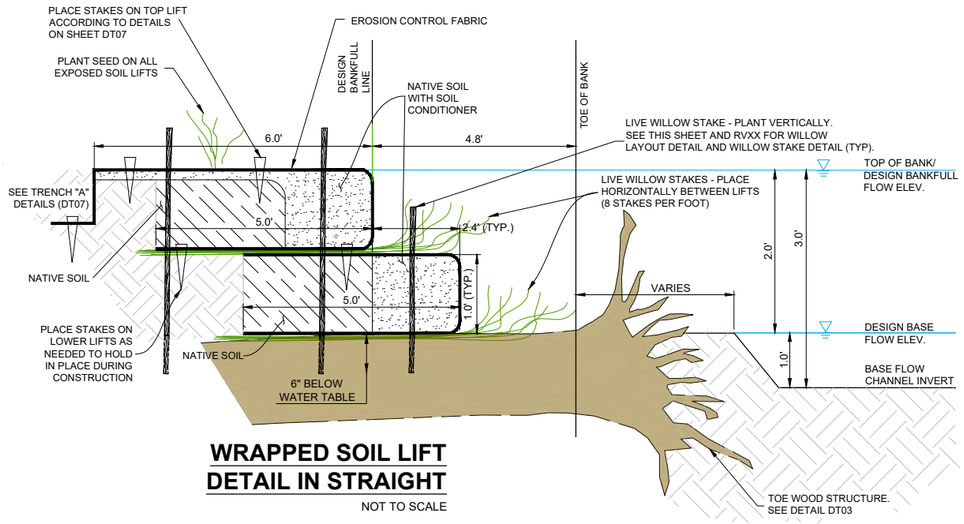
FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

TOE WOOD DETAIL

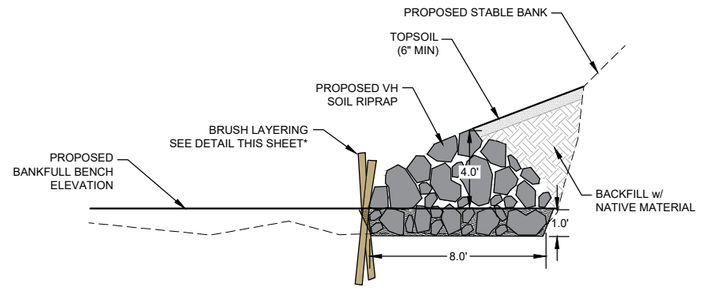
DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	N/A	SHEET	22 OF 25
CHECKED BY:	AJS	VERT.	N/A		

DRAWING No. DT03



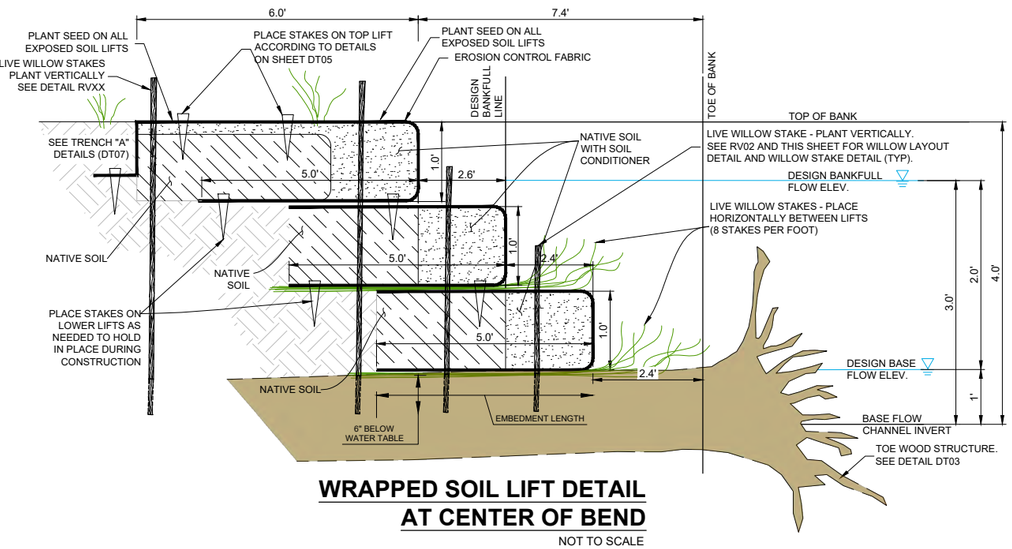
WRAPPED SOIL LIFT DETAIL IN STRAIGHT

NOT TO SCALE



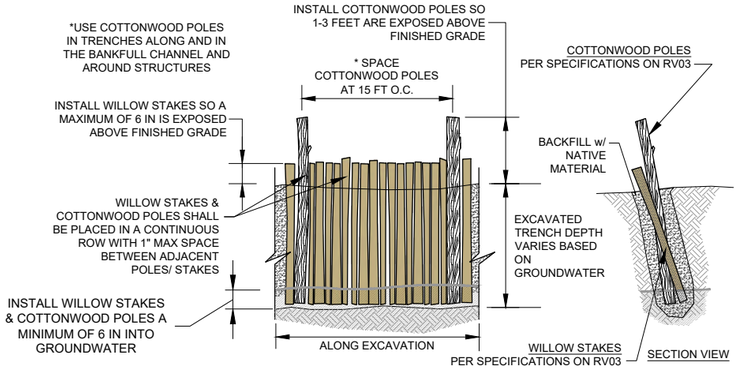
UPPER TERRACE TOE PROTECTION

NOT TO SCALE



WRAPPED SOIL LIFT DETAIL AT CENTER OF BEND

NOT TO SCALE



BRUSH LAYERING DETAIL

NOT TO SCALE

REFERENCE DRAWINGS

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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

PREPARED BY: Matrix Excellence by Design

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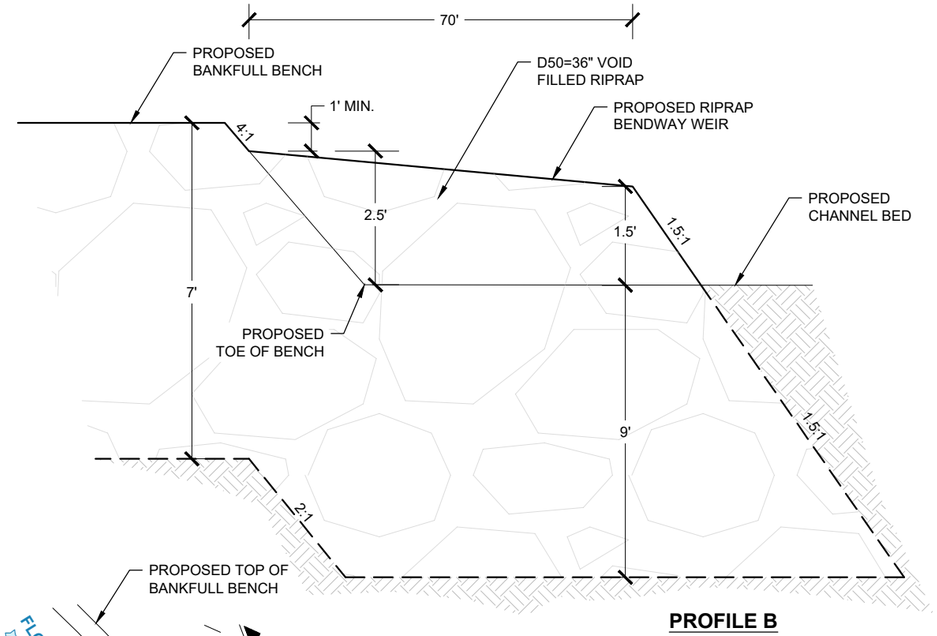
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

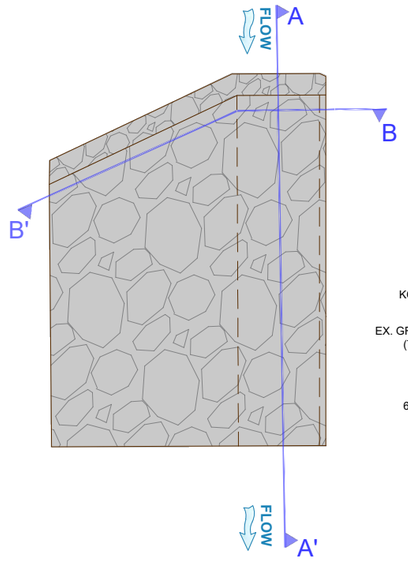
SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

DETAIL SHEETS

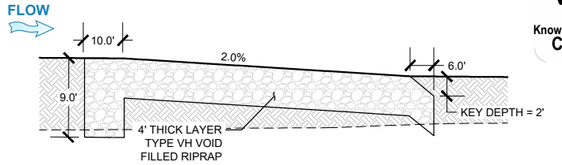
DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	N/A	DRAWING No.	DT04
CHECKED BY:	AJS	VERT.	N/A	SHEET	23 OF 25



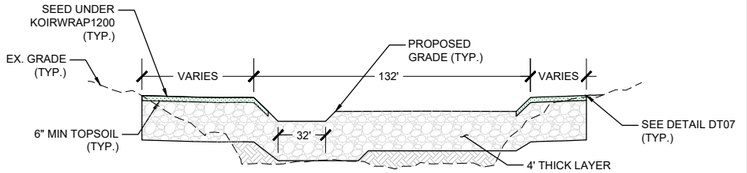
PROFILE B



PLAN VIEW
NTS



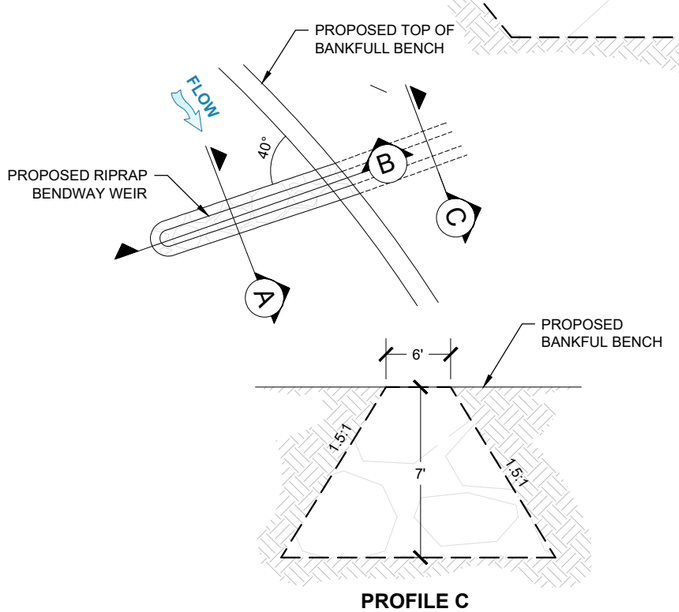
PROFILE AT A-A'
NTS (A)



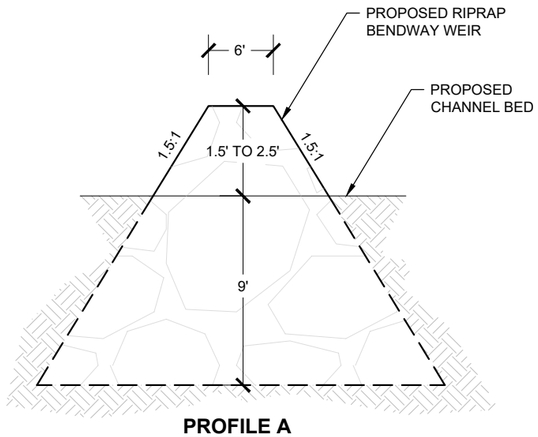
CROSS SECTION AT B-B'
NTS (B)

TYPICAL CONSTRUCTED RIFFLE DETAL

NOT TO SCALE



PROFILE C



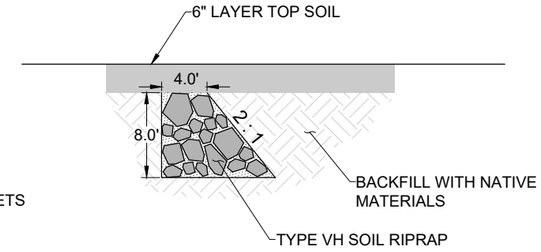
PROFILE A

BENDWAY WEIR DETAIL

NOT TO SCALE

NOTES

1) PLACE COMPACTED FILL AROUND RIPRAP SILL.
2) SEE SHEET PLAN AND PROFILE SHEETS FOR RIPRAP LIMITS.



TYPICAL PROFILE - FLOODPLAIN SILL

NOT TO SCALE

REFERENCE DRAWINGS
X-526.036-MDG22x34

No.	DATE	DESCRIPTION	BY

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FOUNTAIN CREEK WATERSHED FLOOD CONTROL & GREENWAY DISTRICT

PREPARED BY: Matrix Excellence by Design

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 23.526.036

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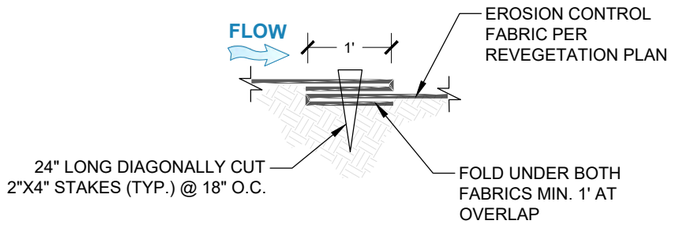
FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

BENDWAY WEIR AND CONSTRUCTED RIFFLE

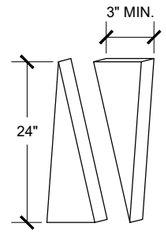
DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	EAL	HORIZ.	N/A	SHEET	24 OF 25
CHECKED BY:	AJS	VERT.	N/A		

DRAWING No. DT05



FABRIC OVERLAP DETAIL

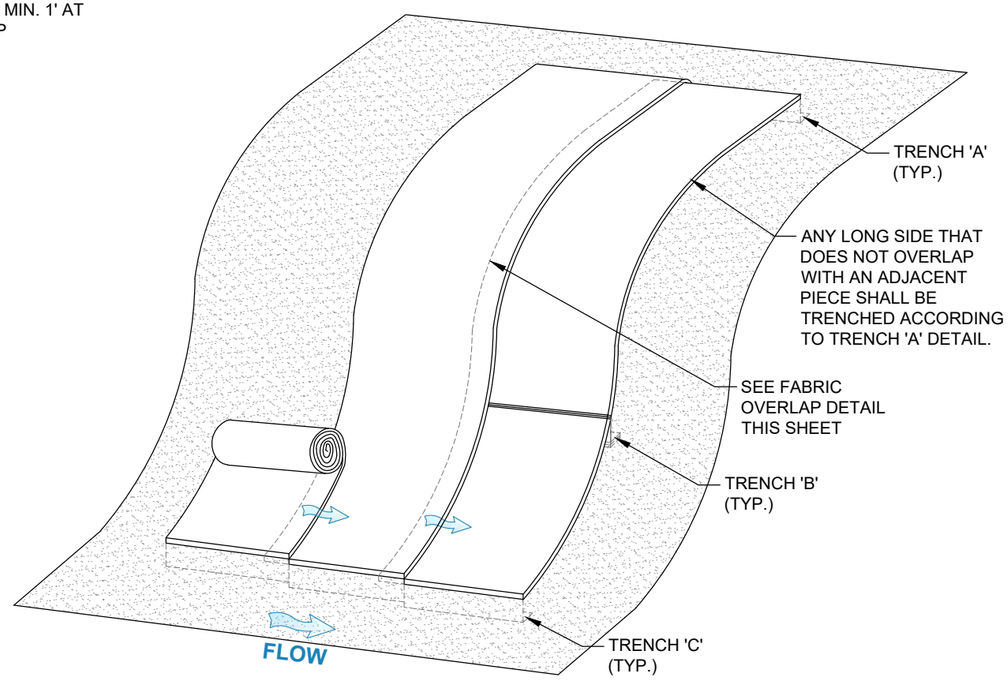
NTS



SAW 2"X4" LUMBER ON DIAGONAL

WOOD STAKE DETAIL

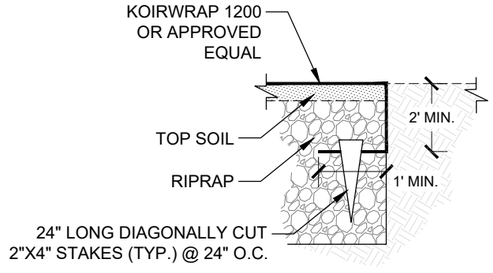
NTS



NOTE: STAKE @30" O.C. AND ALL SEAMS @24" O.C.

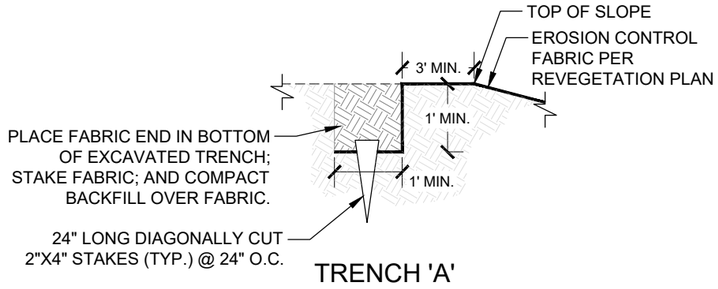
EROSION CONTROL FABRIC SLOPE INSTALLATION DETAIL

NTS

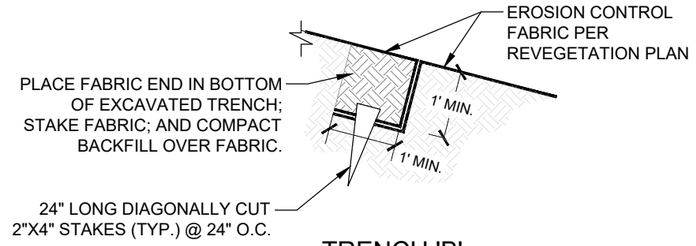


FABRIC TRENCH IN RIPRAP DETAIL

NTS



TRENCH 'A'



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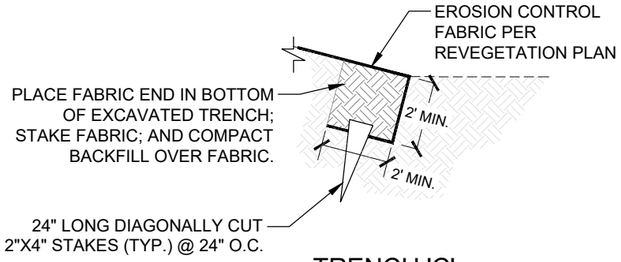

TRENCH 'C'

FABRIC TRENCH DETAILS

NTS

REFERENCE DRAWINGS

X-526.036-MDG22x34

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FOUNTAIN CREEK WATERSHED - FLOOD CONTROL & GREENWAY DISTRICT -

PREPARED BY: Matrix Excellence by Design

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PROJECT No. 23.526.036

FOUNTAIN CREEK WATERSHED DISTRICT

SOUTHMOOR DRIVE CHANNEL STABLILIZATION
PERMIT PLANSET

CHANNEL EROSION CONTROL BLANKET INSTALLATION DETAILS

DESIGNED BY:	TKM	SCALE		DATE ISSUED:	APRIL 2023
DRAWN BY:	KDL	HORIZ.	N/A	SHEET	25 OF 25
CHECKED BY:	AJS	VERT.	N/A		

DRAWING No. DT06