



Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

HAY CREEK VALLEY

EL PASO COUNTY, COLORADO

FINAL GRADING & EROSION CONTROL PLANS

SEPTEMBER 2023

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ECN01-ECN02	DETAILS	10-11

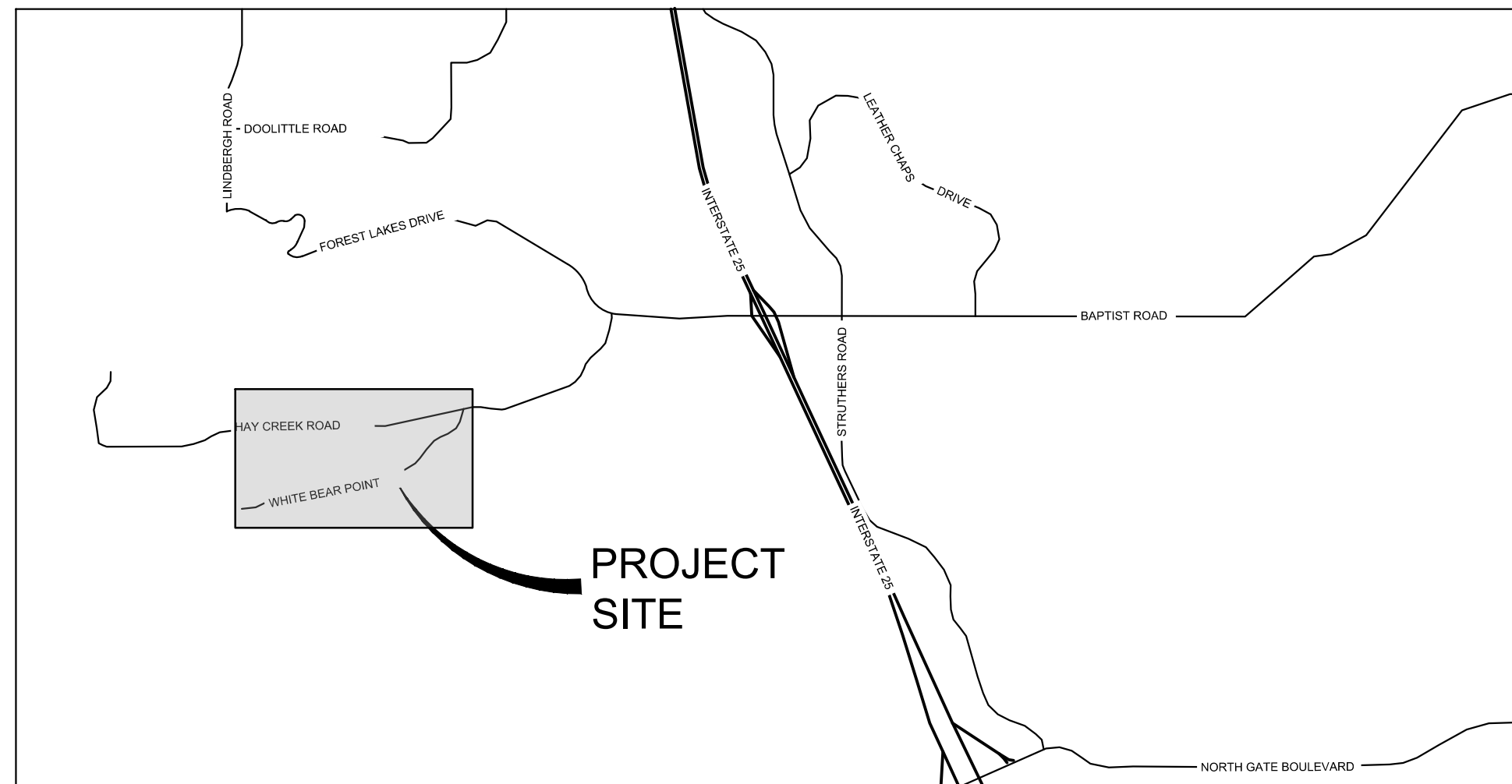
EPC STORMWATER REVIEW COMMENTS IN ORANGE BOXES WITH BLACK TEXT

AGENCY CONTACT INFO

OWNER/DEVELOPER	VIEW HOMES, INC. 555 MIDDLE CREEK PARKWAY, SUITE 500 COLORADO SPRINGS, CO 80921 TIM BUSCHAR, (719)-382-9433
CIVIL ENGINEER	MATRIX DESIGN GROUP 2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO 80920 (719)-575-0100
ELECTRIC	MOUNTAIN VIEW ELECTRIC ASSOCIATION 15706 JACKSON CREEK PARKWAY, SUITE 100 MONUMENT, CO 80132 GINA PERRY, (719) 494-2636
GAS	BLACK HILLS ENERGY 105 S VICTORIA AVENUE PUEBLO, CO 81003 (800) 303-0752
ENGINEERING	EL PASO COUNTY PUBLIC WORKS DEPARTMENT 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 (719) 520-6460
TRAFFIC	EL PASO COUNTY PUBLIC WORKS DEPARTMENT 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 (719) 520-6460
DRAINAGE	EL PASO COUNTY PUBLIC WORKS DEPARTMENT 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 (719) 520-6460
FIRE DEPARTMENT	MONUMENT FIRE DISTRICT 16055 OLD FOREST POINT, SUITE 102 MONUMENT, CO 80132 (719)-484-0911



SITE MAP
1" = 500'



VICINITY MAP
N.T.S.

OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

NAME _____ DATE _____

TIM BUSCHAR, (719)-382-9433
VIEW HOMES, INC.
555 MIDDLE CREEK PARKWAY, SUITE 500
COLORADO SPRINGS, CO 80921

DESIGN ENGINEER'S STATEMENT:

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

BY: _____ DATE: _____

JEFFREY A. ODOR, PE #39265
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.

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.

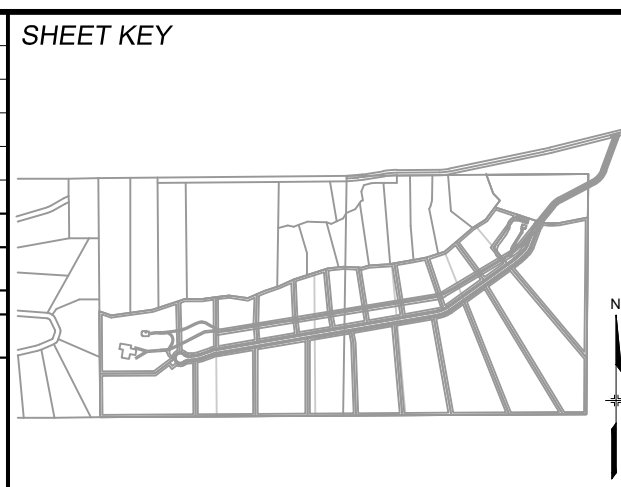
FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL, AS AMENDED.

IN ACCORDANCE WITH ECM 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 RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JOSHUA PALMER, P.E. _____ DATE _____
COUNTY ENGINEER / ECM ADMINISTRATOR

Add text:
EPC's EDARP File Number: SF2324

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\22.886.076 Hay Creek-Forest Manor-O'Leary Properties\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\TS01.dwg			
CTB FILE: Matrix.ctb			
PLOT DATE: 9/22/2023 2:32 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
PROJECT ELEVATIONS ARE NAVD 88 ELEVATIONS BASED ON AN OPUS DERIVED ELEVATION ON CONTROL POINT 10, A NO. 5 REBAR HAVING AN ELEVATION OF 5769.92.

BASIS OF BEARING
THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MONUMENTED ON THE EASTERLY END BY A 2-1/2" ALUMINUM CAP STAMPED "NOLTE PLS25955 C1/4 S22 T16S, R65W 1999, "AND THE WESTERLY END BY A2-1/2" ALUMINUM CAP STAMPED "SSS PLS 16154 1/4 S21 S22 T15S, R65W 2000, "BEING ASSUMED TO BEAR S89°54'42"W, A DISTANCE OF 2,627.78 FEET.

PREPARED BY:
 Matrix
Excellence by Design

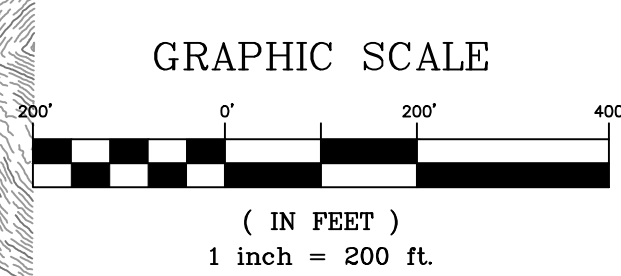
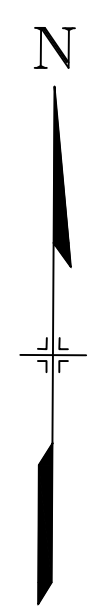
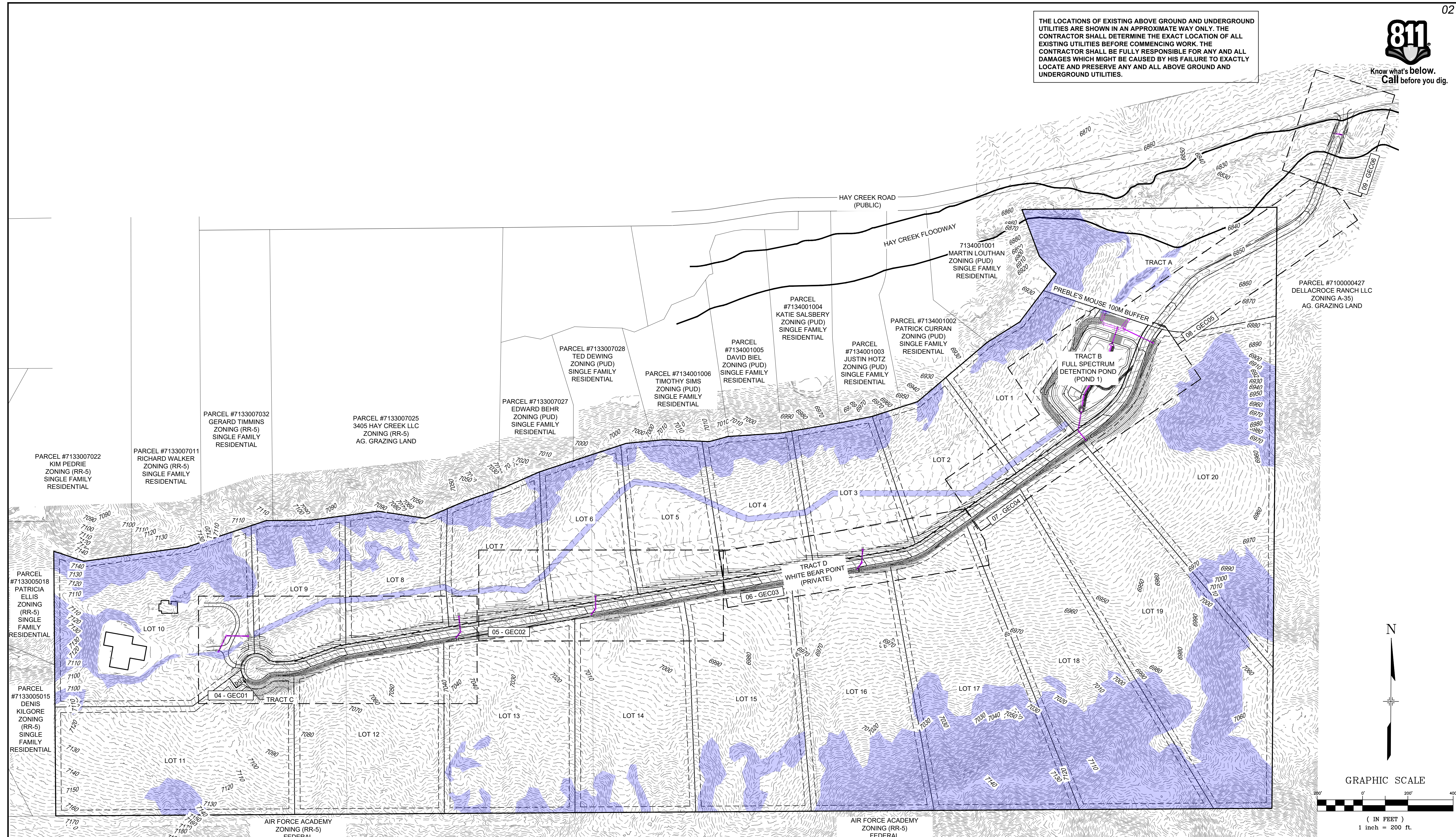
SEAL
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

HAY CREEK VALLEY			
EL PASO COUNTY, COLORADO			
FINAL GRADING & EROSION CONTROL PLANS			
TITLE SHEET			
DESIGNED BY: CVW	SCALE	DATE ISSUED: SEPTEMBER 2023	DRAWING No.
DRAWN BY: CVW	HORIZ. N/A	01 OF 11	TS01
CHECKED BY: JAO	VERT. N/A	SHEET	

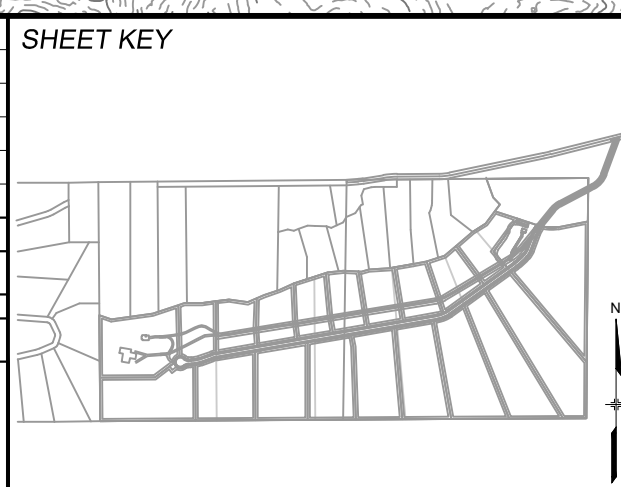


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No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\22.886.076 Hay Creek-Forest Manor-O'Leary Properties\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\TS01.dwg			
CTB FILE: Matrix.ctb			
PLOT DATE: 9/22/2023 2:32 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
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BASIS OF BEARING
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PREPARED BY:

Excellence by Design

SEAL

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 22.886.076

HAY CREEK VALLEY

EL PASO COUNTY, COLORADO
FINAL GRADING & EROSION CONTROL PLANS

KEY MAP

DESIGNED BY: CVW	SCALE: 1"=200'	DATE ISSUED: SEPTEMBER 2023	DRAWING No. GN01
DRAWN BY: CVW	HORIZ. N/A	SHEET 02 OF 11	
CHECKED BY: JAO	VERT. N/A		



Know what's below. Call before you dig.

GENERAL CONSTRUCTION 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 OR 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 (SMWP) 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 OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES 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 VEGETATIVE 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 OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
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.
THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY CTL THOMPSON, DATED SEPTEMBER 19, 2023, AND SHALL BE CONSIDERED A PART OF THESE PLANS.
AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (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

NRCS SOIL SURVEY FOR EL PASO COUNTY

Table with 3 columns: SOIL ID NO., SOIL TYPE, HYDROLOGIC CLASSIFICATION. Rows include Jarre-Tecolote Complex, Pring Coarse Sandy Loam, and Tomah-Crowfoot Complex.

TIMING

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING: SEPTEMBER 2023 THRU DECEMBER 2023

EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETED: JULY 2024

Update to future dates.

AREAS

TOTAL DISTURBED AREA: 17.61 ACRES

RECEIVING WATERS

NAME OF RECEIVING WATERS: HAY CREEK (ULTIMATE)

ENGINEER'S NOTES:

THE EXISTING VEGETATION CONSISTS OF MODERATELY DENSE NATIVE GRASSES AND SHRUBS. BASED ON SITE VISITS AND A REVIEW OF AERIAL PHOTOGRAPHY, THE VEGETATIVE COVER AT HAY CREEK VALLEY IS APPROXIMATELY 80%.

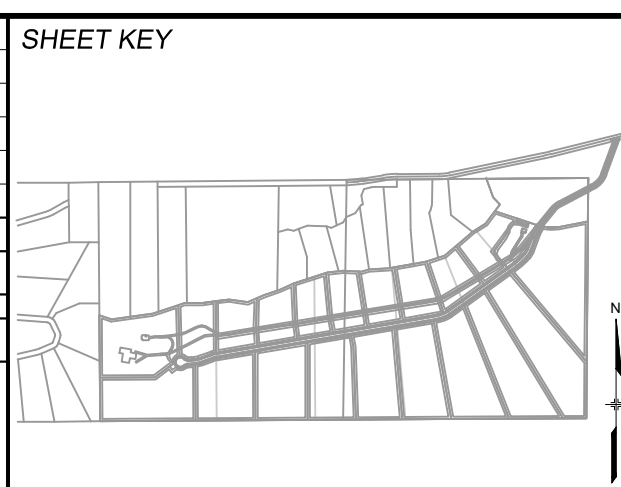
ABBREVIATIONS

Table listing abbreviations for various construction elements like ASSEMBLY, BOTTOM OF PIPE, BLOWOFF ASSEMBLY, etc., with their corresponding symbols.

LEGEND

Table defining symbols for PROPERTY BOUNDARY, EXISTING FENCE, EXISTING STORM DRAIN, PROPOSED STORM DRAIN, MATCHLINE, PROPOSED LOT/TRACT LINE, EASEMENT, PROPOSED BUILDING SETBACK, and NO BUILD ZONE.

REFERENCE DRAWINGS table with columns for No., DATE, DESCRIPTION, and BY. Includes entries for title block, permit, and other drawings.



BENCHMARK: PROJECT ELEVATIONS ARE NAVD 88 ELEVATIONS BASED ON AN OPUS DERIVED ELEVATION ON CONTROL POINT 10, A NO. 5 REBAR HAVING AN ELEVATION OF 5769.92.
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PREPARED BY: Matrix Excellence by Design logo and name.

SEAL: PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE. FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 22.886.076

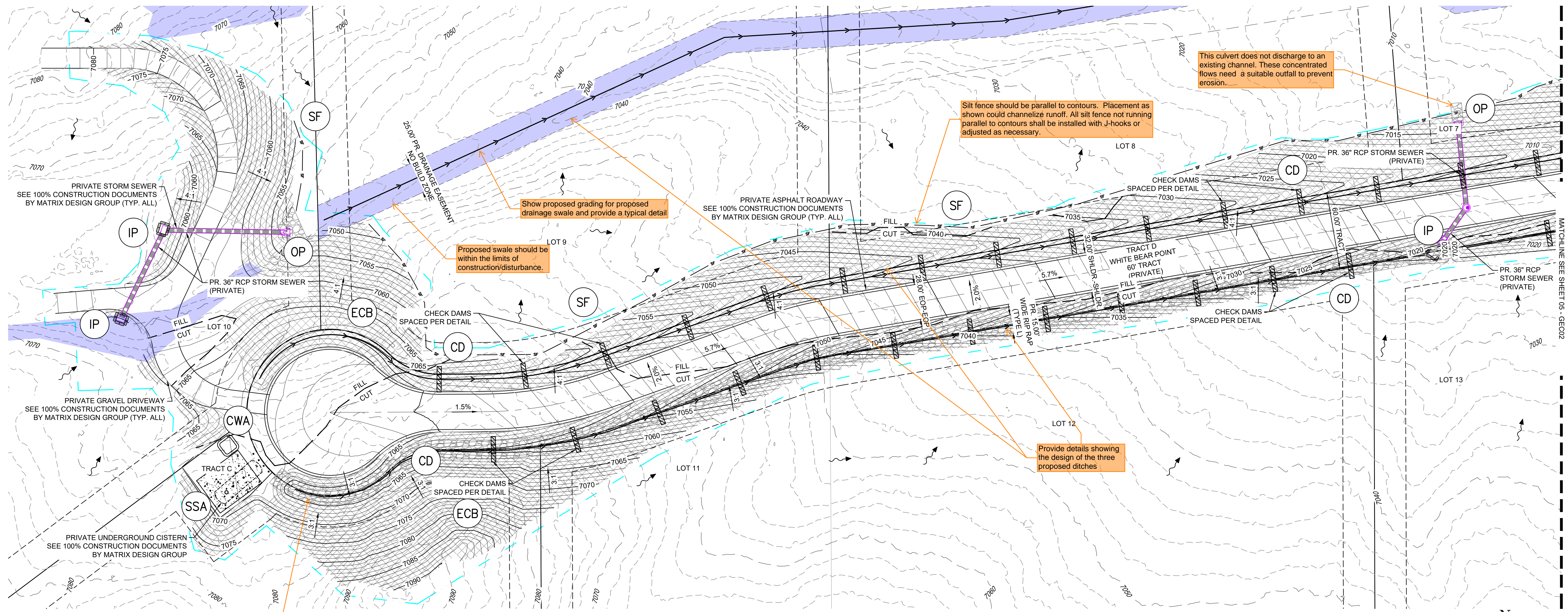
HAY CREEK VALLEY EL PASO COUNTY, COLORADO FINAL GRADING & EROSION CONTROL PLANS GENERAL NOTES. Includes table for DESIGNED BY, DRAWN BY, CHECKED BY, SCALE, DATE ISSUED, and DRAWING No. (GN02).



Know what's below. Call before you dig.

GEC Checklist Item j - show FEMA floodplain areas in legend and on plans, clearly define.

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.



This rock hatching is labeled as VTC in the legend, will these proposed ditches be riprap lined? If so add to the legend

BMP SEQUENCING	
INITIAL	SILT FENCE, VEHICLE TRACKING, TEMP SEDIMENT BASINS
INTERIM	CHECK DAMS, CONCRETE WASHOUT, INLET/OUTLET PROTECTION, STOCKPILES, STAGING, ROUGH CUT STREET CONTROL
FINAL	EROSION CONTROL BLANKETS, PERMANENT CONTROL MEASURE(S)

seeding/mulching also should be included in the final stage and in the legend. All disturbed areas should be seeded.

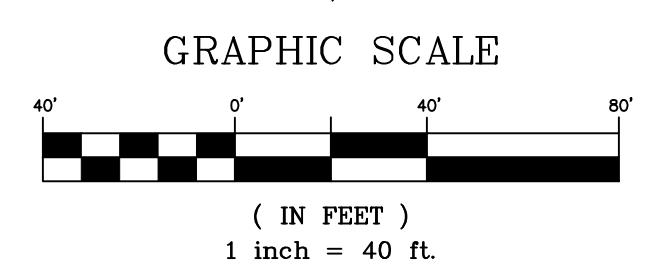
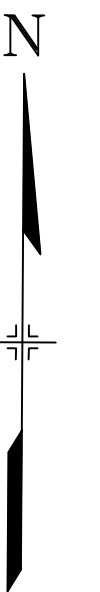
EROSION CONTROL LEGEND

- SF: SILT FENCE
- ECB: EROSION CONTROL BLANKET
- OP: OUTLET PROTECTION
- IP: INLET PROTECTION
- VTC: VEHICLE TRACKING CONTROL
- TSB: TEMPORARY SEDIMENT BASIN
- CWA: CONCRETE WASHOUT
- SSA: STOCKPILE MANAGEMENT / STABILIZED STAGING AREA
- HP: HIGH POINT / LOW POINT
- LP: LOW POINT

- 5975: EXISTING CONTOURS
- 4:1: DRAINAGE SWALE SLOPE LABEL
- Overland flow symbol: OVERLAND FLOW
- Blue dashed line: LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY
- Black dashed line: PROJECT BOUNDARY LINE
- Red arrow: OVERFLOW ROUTE
- Black arrow: CUT/FILL LINE

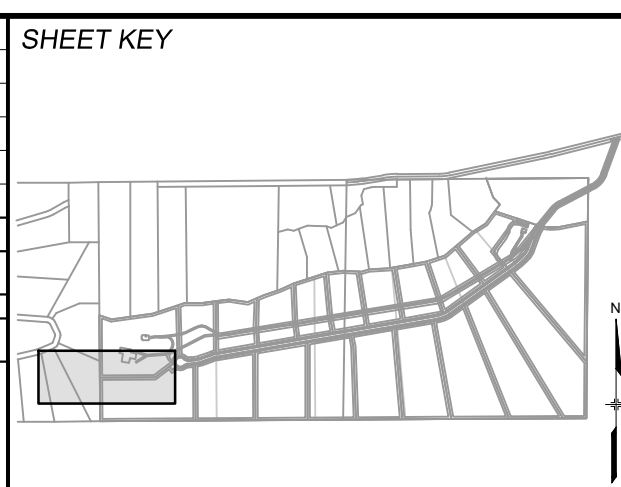
Show check dams in legend.

GEC Checklist Item ee - Plan must be certified by a Colorado Registered PE prior to approval.



No.	DATE	DESCRIPTION	BY
REVISIONS			

COMPUTER FILE MANAGEMENT
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 CTB FILE: Matrix.ctb
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BENCHMARK
 PROJECT ELEVATIONS ARE NAVD 88 ELEVATIONS BASED ON AN OPUS DERIVED ELEVATION ON CONTROL POINT 10, A NO. 5 REBAR HAVING AN ELEVATION OF 5769.92.

BASIS OF BEARING
 THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MONUMENTED ON THE EASTERLY END BY A 2-1/2" ALUMINUM CAP STAMPED "NOLTE PL25955 C1/4 S22 T16S, R65W 1999, "AND THE WESTERLY END BY A2-1/2" ALUMINUM CAP STAMPED "SSS PLS 16154 1/4 S21 S22 T15S, R65W 2000, "BEING ASSUMED TO BEAR S89°54'42"W, A DISTANCE OF 2,627.78 FEET.

PREPARED BY:
Matrix
 Excellence by Design

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PRELIMINARY
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FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 22.886.076

HAY CREEK VALLEY
 EL PASO COUNTY, COLORADO
 FINAL GRADING & EROSION CONTROL PLANS

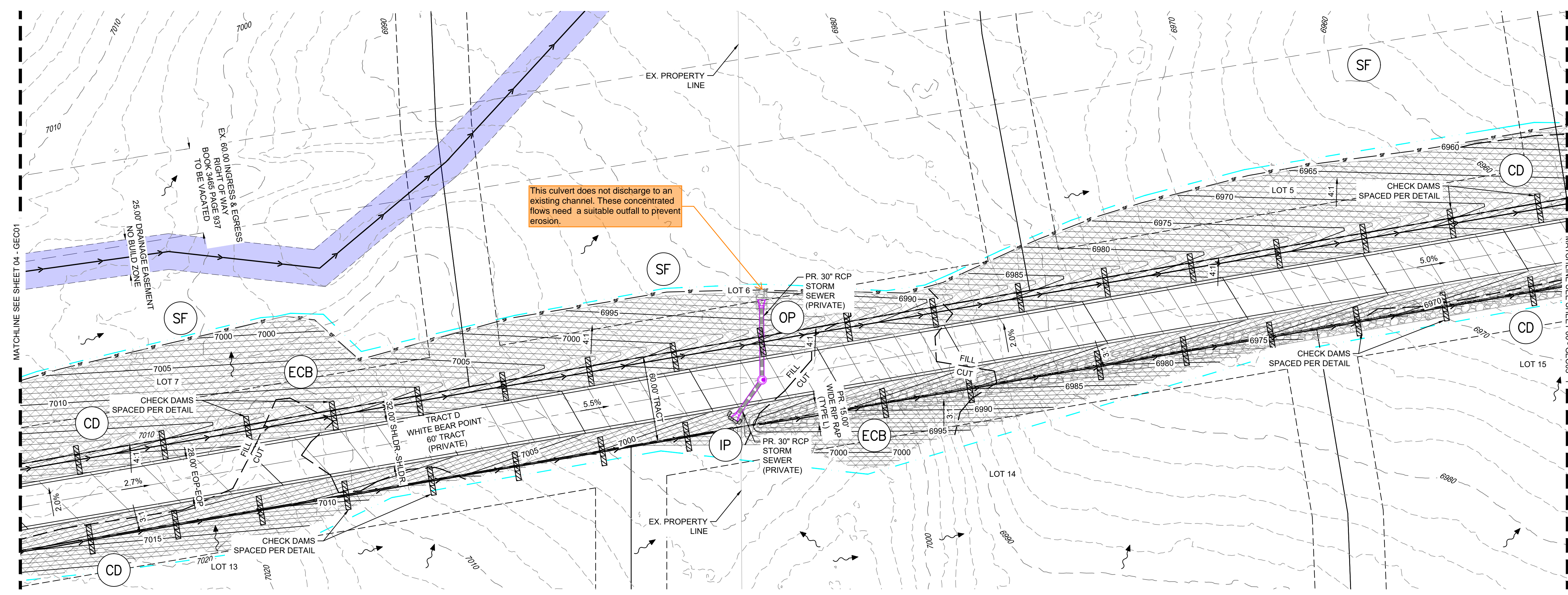
GRADING & EROSION CONTROL PLAN

DESIGNED BY: CVW	SCALE: HORIZ 1" = 40'	DATE ISSUED: SEPTEMBER 2023	DRAWING No. GEC01
CHECKED BY: JAO	VERT. N/A	SHEET 04 OF 11	



Know what's below.
Call before you dig.

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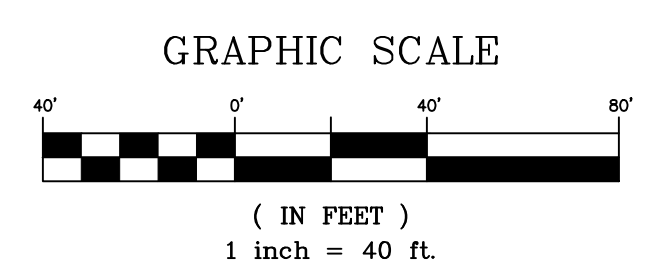
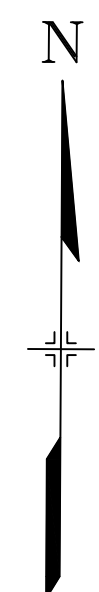
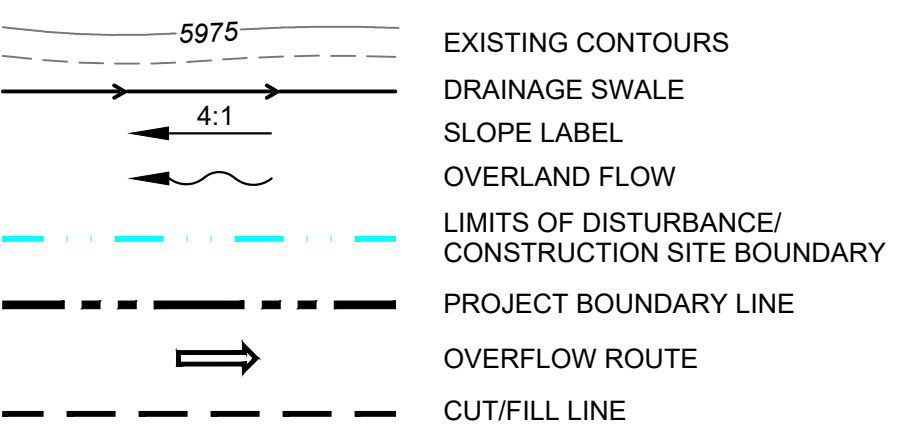


This culvert does not discharge to an existing channel. These concentrated flows need a suitable outfall to prevent erosion.

BMP SEQUENCING	
INITIAL	SILT FENCE, VEHICLE TRACKING, TEMP SEDIMENT BASINS
INTERIM	CHECK DAMS, CONCRETE WASHOUT, INLET/OUTLET PROTECTION, STOCKPILES, STAGING, ROUGH CUT STREET CONTROL
FINAL	EROSION CONTROL BLANKETS, PERMANENT CONTROL MEASURE(S)

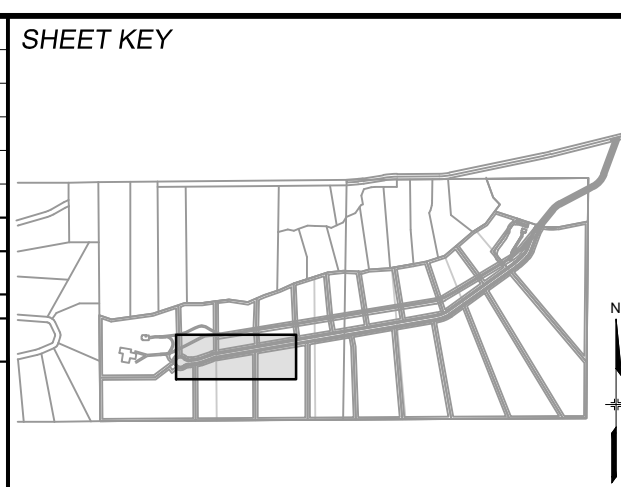
EROSION CONTROL LEGEND

	SF	SILT FENCE		TSB	TEMPORARY SEDIMENT BASIN
	ECB	EROSION CONTROL BLANKET		CWA	CONCRETE WASHOUT
	OP	OUTLET PROTECTION		SSA	STOCKPILE MANAGEMENT / STABILIZED STAGING AREA
	IP	INLET PROTECTION		HP	HIGH POINT / LOW POINT
	VTC	VEHICLE TRACKING CONTROL		LP	LOW POINT



No.	DATE	DESCRIPTION	BY
REVISIONS			

COMPUTER FILE MANAGEMENT
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 CTB FILE: Matrix.ctb
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BENCHMARK
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BASIS OF BEARING
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PREPARED BY:
Matrix
 Excellence by Design

SEAL
PRELIMINARY
 THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 22.886.076

HAY CREEK VALLEY
 EL PASO COUNTY, COLORADO
 FINAL GRADING & EROSION CONTROL PLANS

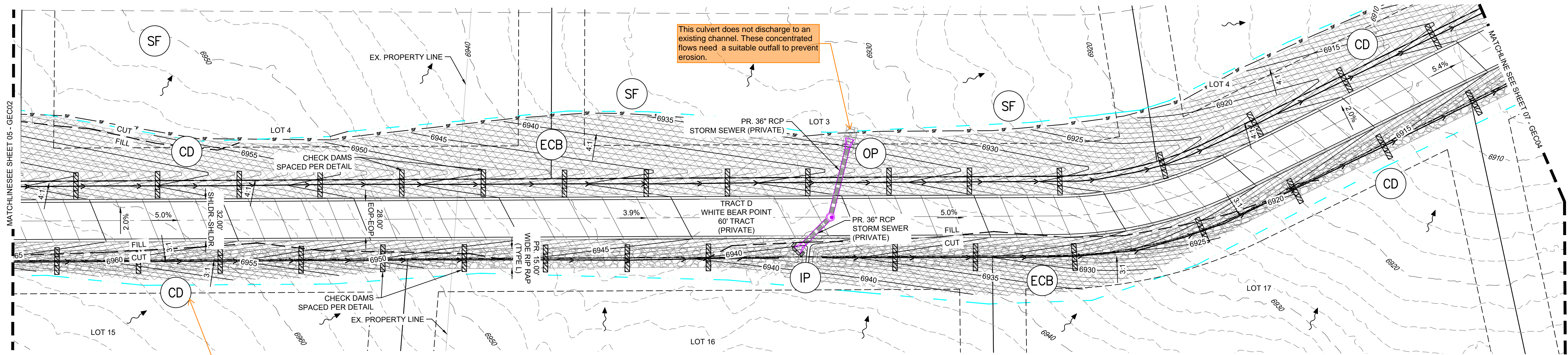
GRADING & EROSION CONTROL PLAN

DESIGNED BY: CVW	SCALE: HORIZ 1" = 40'	DATE ISSUED: SEPTEMBER 2023	DRAWING No. GEC02
DRAWN BY: CVW	VERT. N/A	SHEET 05 OF 11	
CHECKED BY: JAO			



Know what's below.
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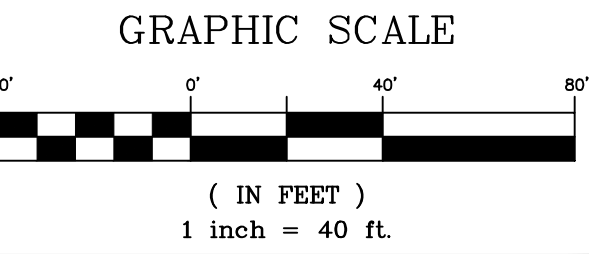
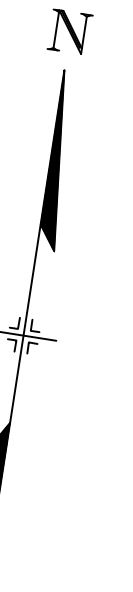
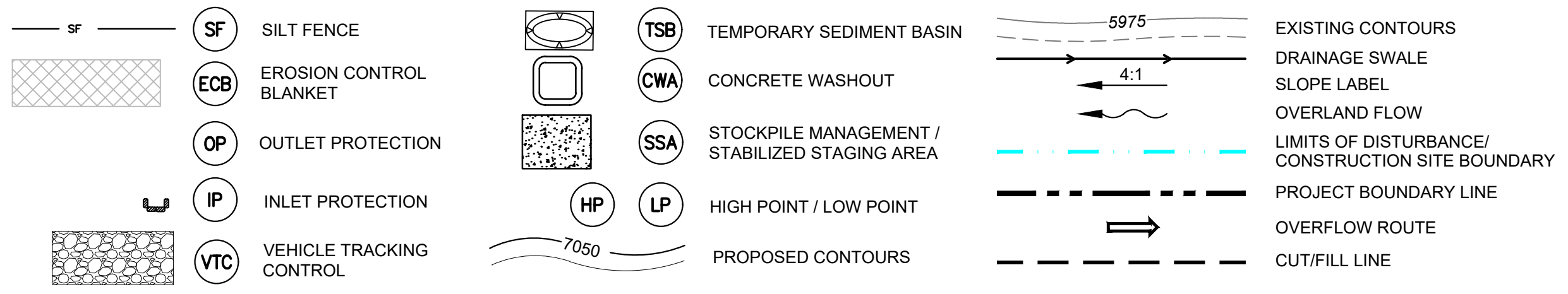
This culvert does not discharge to an existing channel. These concentrated flows need a suitable outfall to prevent erosion.

Check dams to be installed a minimum of every 1.5' of vertical fall. Notate spacing and/or include a table for multiple slopes, based on your selected detail, per the example table shown below.

Space temporary check dams in ditches per the following table:							
Slope of Ditch Flow Line	2%	3%	4%	5%	6%	Reference	Type
Spacing (ft) (H = 0.5ft)	25	16.7	12.5	10	8.3	CDOT, MHFD, DCMv2	SCL (9\"/>
Spacing (ft) (H = 1.5ft)	75	50	37.5	30	25	MHFD	Rock
Spacing (ft) (H = 2.0ft)	100	67	50	40	33	CDOT	Rock
Spacing (ft) (H = to convey 2-yr flow)	TBD	TBD	TBD	TBD	TBD	DCMv2	Rock

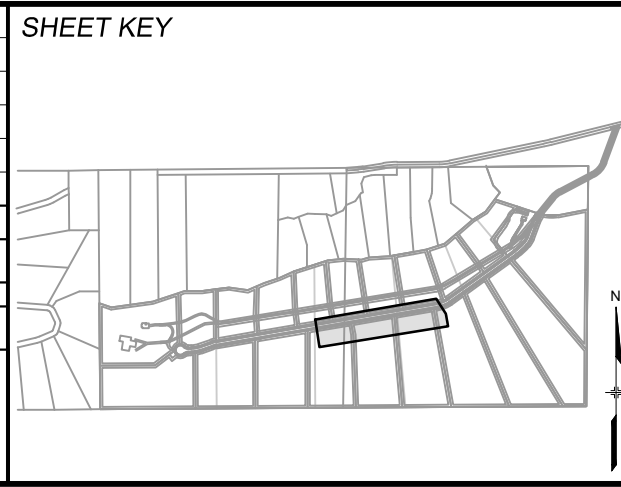
BMP SEQUENCING	
INITIAL	SILT FENCE, VEHICLE TRACKING, TEMP SEDIMENT BASINS
INTERIM	CHECK DAMS, CONCRETE WASHOUT, INLET/OUTLET PROTECTION, STOCKPILES, STAGING, ROUGH CUT STREET CONTROL
FINAL	EROSION CONTROL BLANKETS, PERMANENT CONTROL MEASURE(S)

EROSION CONTROL LEGEND



No.	DATE	DESCRIPTION	BY
REVISIONS			

COMPUTER FILE MANAGEMENT
 FILE NAME: S:\22.886.076 Hay Creek-Forest Manor-O'Leary Properties\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\GEC01.dwg
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BENCHMARK
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BASIS OF BEARING
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SEAL

PRELIMINARY
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FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 22.886.076

DESIGNED BY: CVW
 DRAWN BY: CVW
 CHECKED BY: JAO

SCALE
 HORIZ. 1" = 40'
 VERT. N/A

DATE ISSUED: SEPTEMBER 2023
 SHEET 06 OF 11

DRAWING No. GEC03



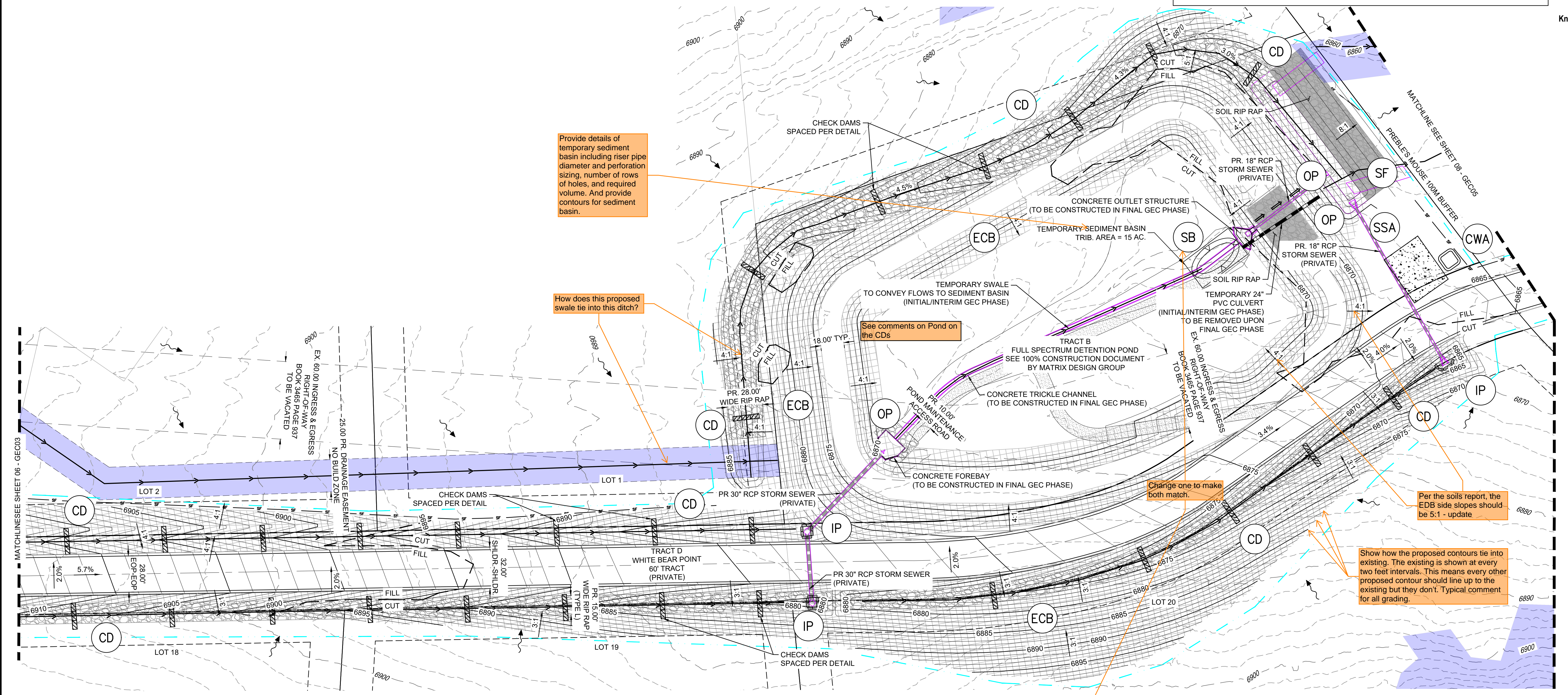
HAY CREEK VALLEY
 EL PASO COUNTY, COLORADO
 FINAL GRADING & EROSION CONTROL PLANS

GRADING & EROSION CONTROL PLAN



Know what's below. Call before you dig.

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BMP SEQUENCING	
INITIAL	SILT FENCE, VEHICLE TRACKING, TEMP SEDIMENT BASINS
INTERIM	CHECK DAMS, CONCRETE WASHOUT, INLET/OUTLET PROTECTION, STOCKPILES, STAGING, ROUGH CUT STREET CONTROL
FINAL	EROSION CONTROL BLANKETS, PERMANENT CONTROL MEASURE(S)

EROSION CONTROL LEGEND

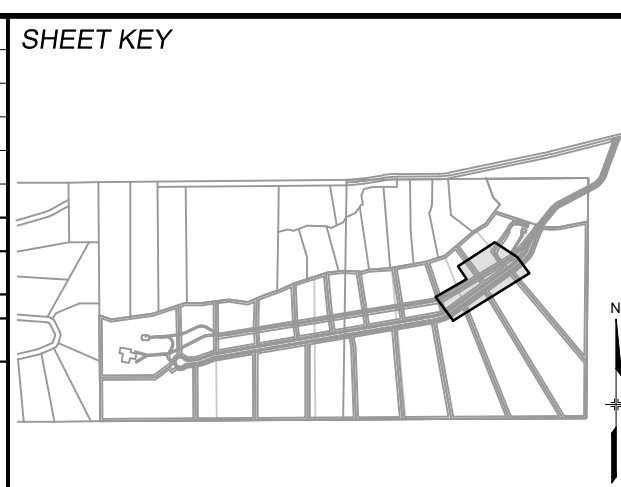
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	ECB	EROSION CONTROL BLANKET		CWA	CONCRETE WASHOUT
	OP	OUTLET PROTECTION		SSA	STOCKPILE MANAGEMENT / STABILIZED STAGING AREA
	IP	INLET PROTECTION		HP	HIGH POINT / LOW POINT
	VTC	VEHICLE TRACKING CONTROL		LP	LOW POINT

	EXISTING CONTOURS
	DRAINAGE SWALE SLOPE LABEL
	OVERLAND FLOW
	LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY
	PROJECT BOUNDARY LINE
	OVERFLOW ROUTE
	CUT/FILL LINE

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\22.886.076 Hay Creek-Forest Manor-O'Leary Properties\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\GEC01.dwg			
CTB FILE: Matrix.ctb			
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PREPARED BY:

Excellence by Design

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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 22.886.076

HAY CREEK VALLEY
EL PASO COUNTY, COLORADO
FINAL GRADING & EROSION CONTROL PLANS

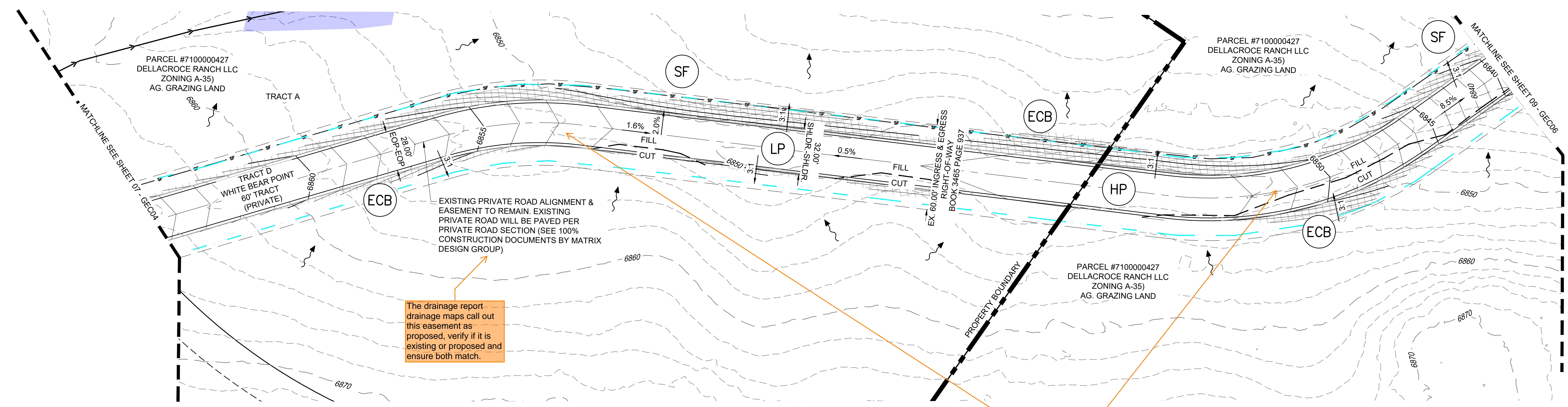
GRADING & EROSION CONTROL PLAN

DESIGNED BY: CVW	SCALE: HORIZ 1"=40'	DATE ISSUED: SEPTEMBER 2023	DRAWING No. GEC04
DRAWN BY: CVW	VERT. N/A	SHEET 07 OF 11	
CHECKED BY: JAO			



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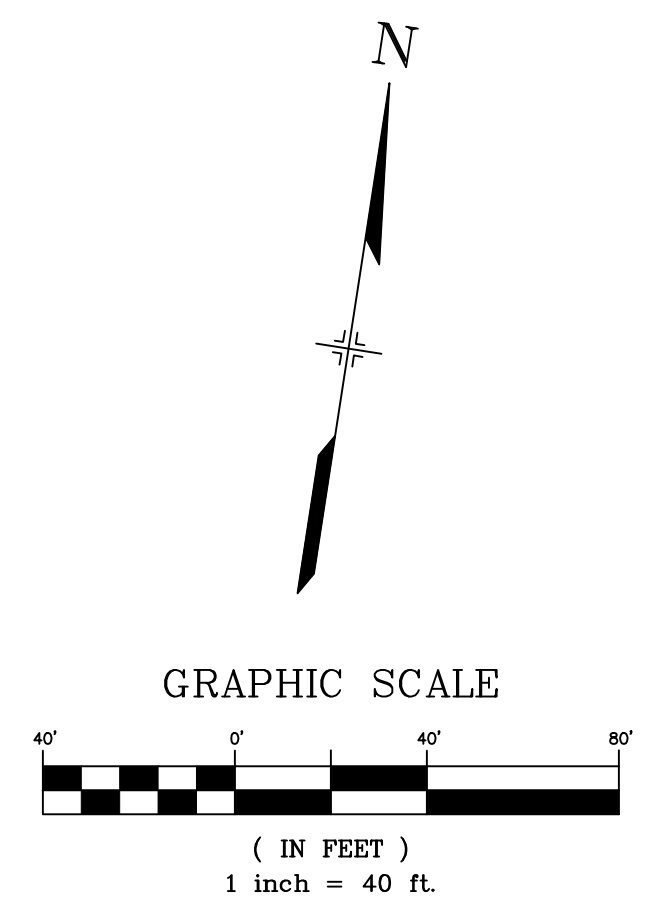
The drainage report drainage maps call out this easement as proposed, verify if it is existing or proposed and ensure both match.

How is this pavement and grading accounted for regarding treatment?

BMP SEQUENCING	
INITIAL	SILT FENCE, VEHICLE TRACKING, TEMP SEDIMENT BASINS
INTERIM	CHECK DAMS, CONCRETE WASHOUT, INLET/OUTLET PROTECTION, STOCKPILES, STAGING, ROUGH CUT STREET CONTROL
FINAL	EROSION CONTROL BLANKETS, PERMANENT CONTROL MEASURE(S)

EROSION CONTROL LEGEND

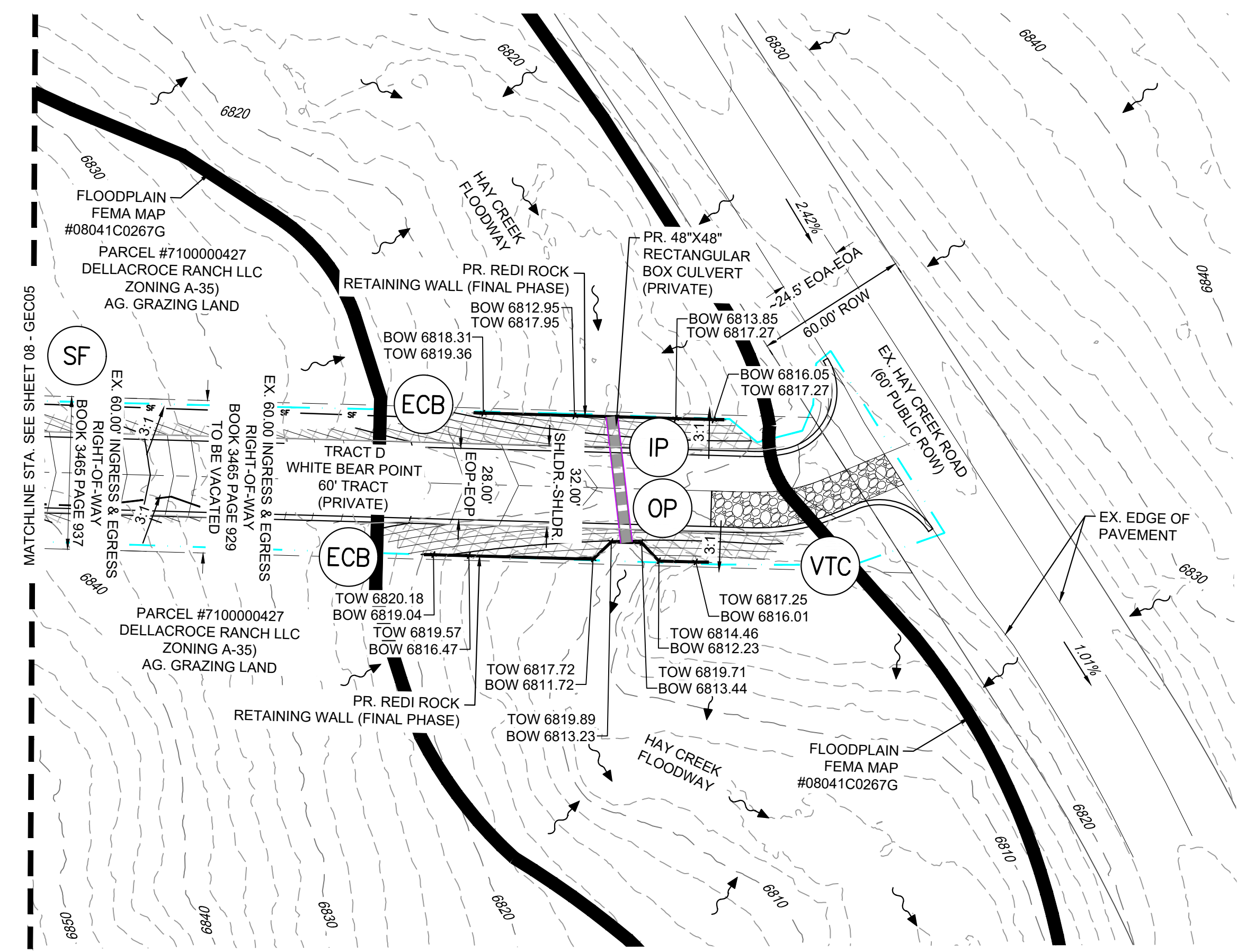
SF	SILT FENCE	TSB	TEMPORARY SEDIMENT BASIN	5975	EXISTING CONTOURS
ECB	EROSION CONTROL BLANKET	CWA	CONCRETE WASHOUT	4:1	DRAINAGE SWALE
OP	OUTLET PROTECTION	SSA	STOCKPILE MANAGEMENT / STABILIZED STAGING AREA		SLOPE LABEL
IP	INLET PROTECTION	HP	HIGH POINT / LOW POINT		OVERLAND FLOW
VTC	VEHICLE TRACKING CONTROL	LP	LOW POINT / HIGH POINT		LIMITS OF DISTURBANCE / CONSTRUCTION SITE BOUNDARY
		7050	PROPOSED CONTOURS		PROJECT BOUNDARY LINE
					CUT/FILL LINE



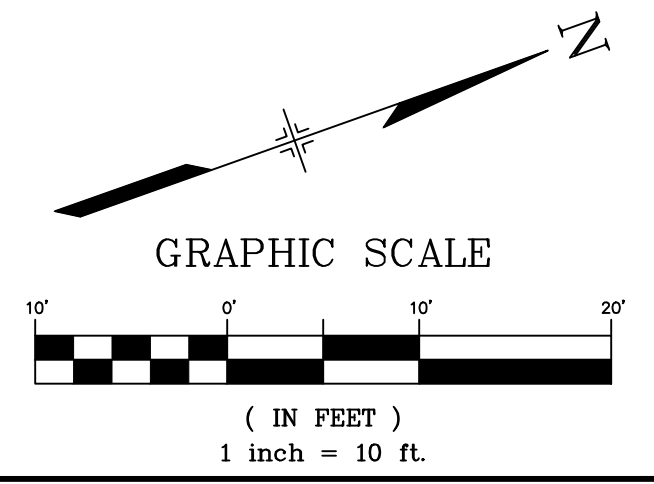
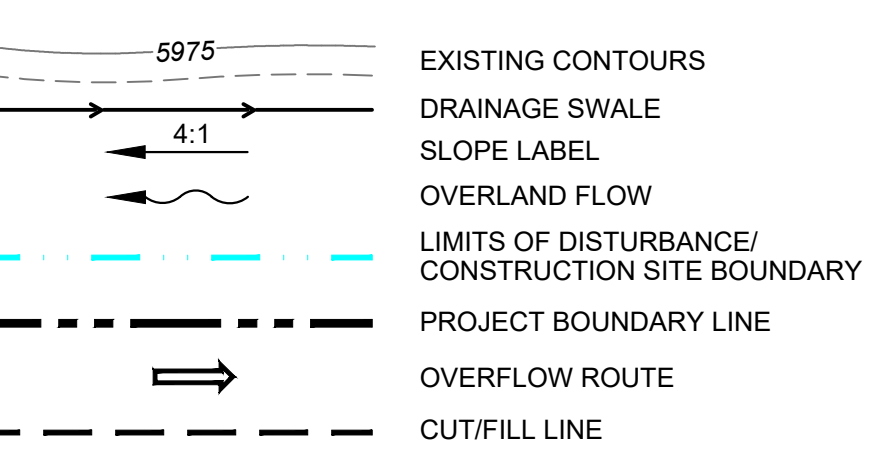
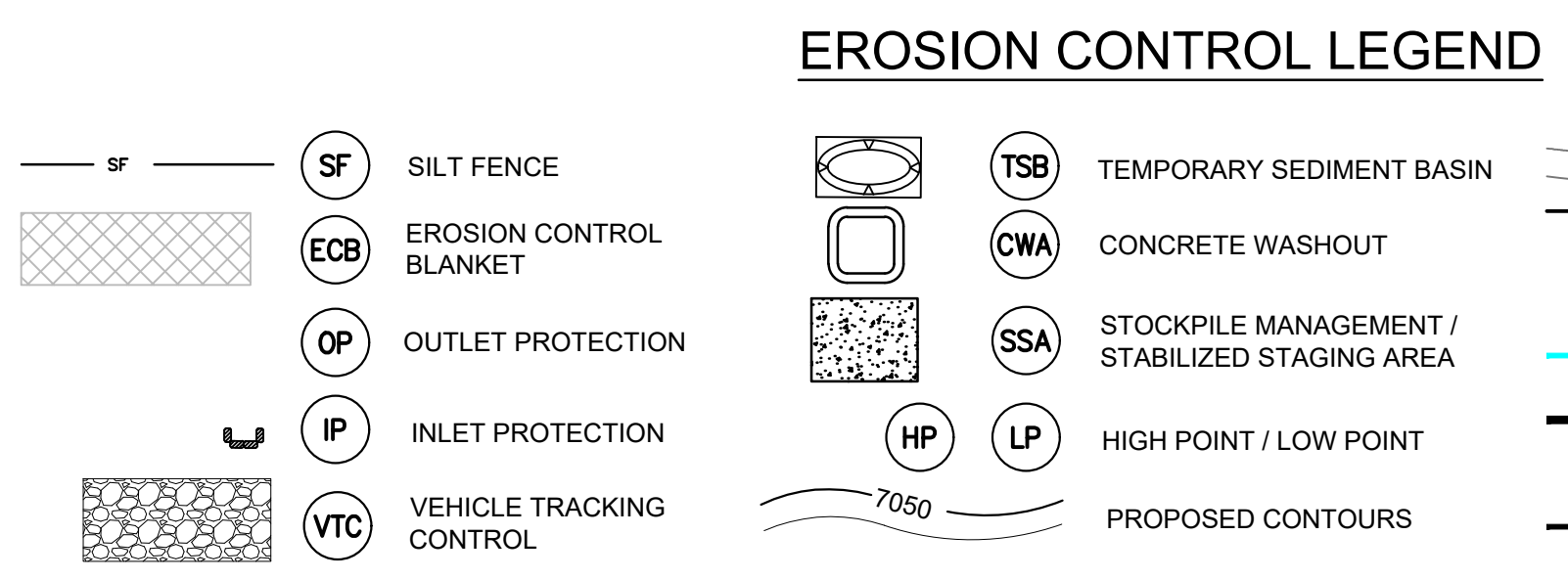
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	COMPUTER FILE MANAGEMENT FILE NAME: S:\22.886.076 Hay Creek-Forest Manor-O'Leary Properties\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\GEC01.dwg CTB FILE: Matrix.ctb PLOT DATE: 9/22/2023 2:33 PM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					PREPARED BY: Excellence by Design	FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 22.886.076



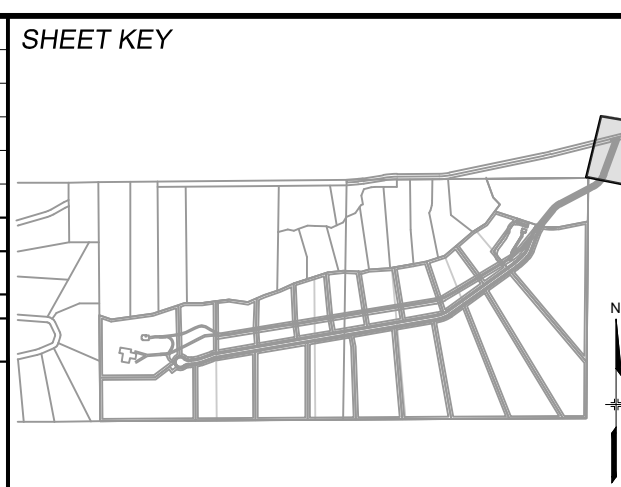
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INTERIM	CHECK DAMS, CONCRETE WASHOUT, INLET/OUTLET PROTECTION, STOCKPILES, STAGING, ROUGH CUT STREET CONTROL
FINAL	EROSION CONTROL BLANKETS, PERMANENT CONTROL MEASURE(S)



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REVISIONS			
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PREPARED BY:
Matrix
Excellence by Design

SEAL
PRELIMINARY
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HAY CREEK VALLEY
EL PASO COUNTY, COLORADO
FINAL GRADING & EROSION CONTROL PLANS

GRADING & EROSION CONTROL PLAN

DESIGNED BY: CVW	SCALE: HORIZ. 1" = 40'	DATE ISSUED: SEPTEMBER 2023	DRAWING No. GEC06
DRAWN BY: CVW	VERT. N/A	SHEET 09 OF 11	
CHECKED BY: JAO			



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EC-6 Rolled Erosion Control Products (RECP)

Staking patterns are also provided in the design details according to these factors: ECB type, Slope or channel type. Includes diagrams for ECB-1, ECB-2, and ECB-3, and a table of material specifications.

EC-6 Rolled Erosion Control Products (RECP)

Includes diagrams for ECB-1 (Pipe Outlet to Drainage Way) and ECB-2 (Small Ditch or Drainage Way). Includes a table of material specifications.

EC-6 Rolled Erosion Control Products (RECP)

Includes diagrams for ECB-3 (Outside of Drainage Way) and various staking patterns by ECB type and slope/channel type. Includes a table of material specifications.

EC-6 Rolled Erosion Control Products (RECP)

Includes diagrams for ECB-4 (Staking Patterns by ECB Type) and ECB-5 (Staking Patterns by Slope or Channel Type). Includes a table of material specifications.

EC-6 Rolled Erosion Control Products (RECP)

Includes diagrams for ECB-6 (Staking Patterns by ECB Type) and ECB-7 (Staking Patterns by Slope or Channel Type). Includes a table of material specifications.

EC-8 Temporary Outlet Protection (TOP)

Includes diagrams for OP-1 (Temporary Outlet Protection) and a table of material specifications.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 RECP-5

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

RECP-7 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

RECP-8 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

RECP-9 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

TOP-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

EC-8 Temporary Outlet Protection (TOP)

Includes diagrams for OP-1 (Temporary Outlet Protection) and a table of material specifications.

EC-9 Rough Cut Street Control (RCS)

Includes diagrams for RCS-1 (Rough Cut Street Control) and a table of material specifications.

EC-9 Rough Cut Street Control (RCS)

Includes diagrams for RCS-2 (Rough Cut Street Control) and a table of material specifications.

EC-9 Rough Cut Street Control (RCS)

Includes diagrams for RCS-3 (Rough Cut Street Control) and a table of material specifications.

MM-1 Concrete Washout Area (CWA)

Includes diagrams for CWA-1 (Concrete Washout Area) and a table of material specifications.

EC-12 Check Dams (CD)

Includes diagrams for CD-1 (Check Dam) and a table of material specifications.

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

RCS-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

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

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

CWA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

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

EC-12 Check Dams (CD)

Includes diagrams for CD-1 (Check Dam) and CD-2 (Reinforced Check Dam). Includes a table of material specifications.

EC-12 Check Dams (CD)

Includes diagrams for CD-3 (Check Dam) and CD-4 (Check Dam). Includes a table of material specifications.

EC-12 Check Dams (CD)

Includes diagrams for CD-5 (Check Dam) and CD-6 (Check Dam). Includes a table of material specifications.

EC-12 Check Dams (CD)

Includes diagrams for CD-7 (Check Dam) and CD-8 (Check Dam). Includes a table of material specifications.

SC-1 Silt Fence (SF)

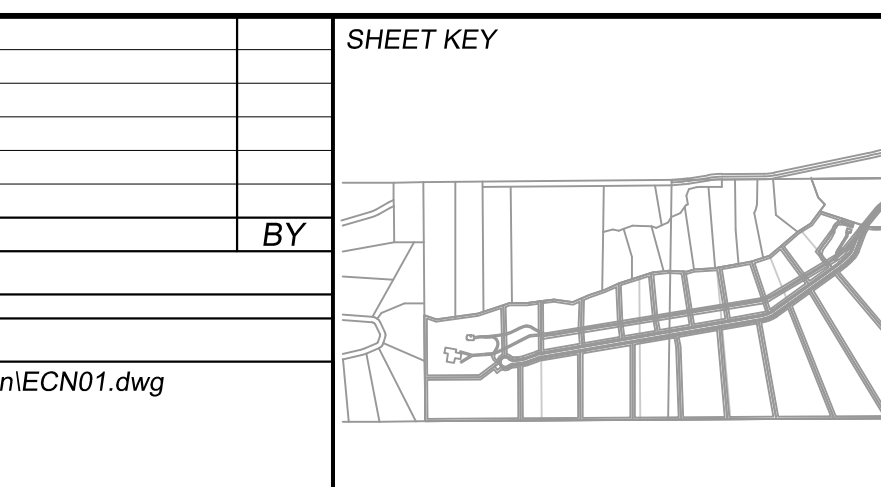
Includes diagrams for SF-1 (Silt Fence) and SF-2 (Silt Fence). Includes a table of material specifications.

SC-1 Silt Fence (SF)

Includes diagrams for SF-3 (Silt Fence) and SF-4 (Silt Fence). Includes a table of material specifications.

REFERENCE DRAWINGS table with columns for No., DATE, and DESCRIPTION.

COMPUTER FILE MANAGEMENT table with columns for FILE NAME, CTB FILE, PLOT DATE, and THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.



BENCHMARK PROJECT ELEVATIONS ARE NAVD 88 ELEVATIONS BASED ON AN OPUS DERIVED ELEVATION ON CONTROL POINT 10, A NO. 5 REBAR HAVING AN ELEVATION OF 5769.92.

BASIS OF BEARING THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MONUMENTED ON THE EASTERLY END BY A 2-1/2" ALUMINUM CAP STAMPED 'NOLTE PL325955 C1/4 S22 T165, R65W 1999, 'AND THE WESTERLY END BY A2-1/2" ALUMINUM CAP STAMPED 'SSS PL16154 1/4 S21 S22 T155, R65W 2000, 'BEING ASSUMED TO BEAR S89°54'42"W, A DISTANCE OF 2,627.78 FEET.



PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

HAY CREEK VALLEY EL PASO COUNTY, COLORADO FINAL GRADING & EROSION CONTROL PLANS DETAILS. Includes drawing information table.



Know what's below. Call before you dig.

SC-6 Inlet Protection (IP)

IP-3. Rock Sock Inlet Protection for Sump/Area Inlet
 IP-4. Silt Fence Inlet Protection for Sump/Area Inlet
 IP-5. Over-excavation Inlet Protection
 IP-6. Straw Bale Inlet Protection for Sump/Area Inlet
 CIP-1. Culvert Inlet Protection

Proprietary inlet protection devices should be installed in accordance with manufacturer specifications. More information is provided below on selecting inlet protection for sump and on-grade locations.

Inlets Located in a Sump

When applying inlet protection in sump conditions, it is important that the inlet continue to function during larger runoff events. For each inlet, the maximum height of the protective barrier should be lower than the top of the curb opening to allow overflow into the inlet during larger storms without excessive localized flooding. If the inlet protection height is greater than the curb elevation, particularly if the filter becomes clogged with sediment, runoff will enter the inlet and may bypass it, possibly causing localized flooding, public safety issues, and downstream erosion and damage from bypassed flows.

Area inlets located in a sump setting can be protected through the use of silt fence, concrete block and rock socks (on gravel surfaces), sediment control logs, or devices embedded in the adjacent soil and stacked around the area inlet (on pervious surfaces), over-excavation around the inlet, and proprietary products providing equivalent functions.

Inlets Located on a Slope

For curb and gutter inlets on open grading slopes, block and rock sock inlet protection is recommended in conjunction with curb socks in the gutter leading to the inlet. For inlets located along unpaved roads, also see the Check Dam Fact Sheet.

Maintenance and Removal

Inspect inlet protection frequently. Inspection and maintenance guidance includes:

- Inspect for tears that can result in sediment directly entering the inlet, as well as result in the contents of the BMP (e.g. gravel) washing into the inlet.
- Check for improper installation resulting in untreated flows bypassing the BMP and directly entering the inlet or bypassing to an unprotected downstream inlet. For silt fence, silt fence that has not been properly tensioned around the inlet can result in flows under the silt fence and directly into the inlet.
- Look for displaced BMPs that are no longer protecting the inlet. Displacement may occur following heavy events even if the BMP is or was protecting the inlet. Track and equipment may also crush or displace the BMP.
- Monitor sediment accumulation upgradient of the inlet protection.

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Inlet Protection (IP) SC-6

Remove sediment accumulation from the area upstream of the inlet protection, as needed to maintain BMP effectiveness, typically when it reaches no more than half the storage capacity of the inlet protection. For silt fence, remove sediment when it accumulates to a depth of no more than 6 inches. Remove sediment accumulation from the area upstream of the inlet protection as needed to maintain the functionality of the BMP.

Proprietary inlet protection devices should be inspected and maintained in accordance with manufacturer specifications. If proprietary inlet insert devices are used, sediment should be removed in a timely manner to prevent device from breaking and settling sediment into the storm drain. Inlet protection must be removed and properly disposed of when the drainage area for the inlet has reached final stabilization.

Inlets Located in a Sump

When applying inlet protection in sump conditions, it is important that the inlet continue to function during larger runoff events. For each inlet, the maximum height of the protective barrier should be lower than the top of the curb opening to allow overflow into the inlet during larger storms without excessive localized flooding. If the inlet protection height is greater than the curb elevation, particularly if the filter becomes clogged with sediment, runoff will enter the inlet and may bypass it, possibly causing localized flooding, public safety issues, and downstream erosion and damage from bypassed flows.

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Inlets Located on a Slope

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Maintenance and Removal

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- Check for improper installation resulting in untreated flows bypassing the BMP and directly entering the inlet or bypassing to an unprotected downstream inlet. For silt fence, silt fence that has not been properly tensioned around the inlet can result in flows under the silt fence and directly into the inlet.
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- Monitor sediment accumulation upgradient of the inlet protection.

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SC-6 Inlet Protection (IP)

IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

1. CONCRETE "THICK" BLOCKS SHALL BE Laid ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.

2. GRavel SOCKS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.

IP-2. CURB SOCK SOCKS UPSTREAM OF INLET PROTECTION

CURB SOCK SOCK SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. POINTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MINIMUM SPACING OF 4 FEET.

3. STRIP MATERIAL/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. STRIP MATERIAL/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

IP-4. SILT FENCE FOR SUMP INLET PROTECTION

SILT FENCE SUMP INLET PROTECTION INSTALLATION NOTES

1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. POINTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MINIMUM SPACING OF 4 FEET.

3. STRIP MATERIAL/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

IP-5. OVER-EXCAVATION INLET PROTECTION

OVER-EXCAVATION INLET PROTECTION INSTALLATION NOTES

1. THIS FORM OF INLET PROTECTION IS REMAINING APPLICABLE FOR SITES THAT HAVE NOT MET FINAL STABILIZATION CRITERIA. IT SHOULD BE USED ONLY FOR ALLEYS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA.

2. WHEN USING FOR CONCENTRATED FLOWS, SHAPE BENCH IN 2:1 RATIO WITH LENGTH ORIENTED TOWARD DIRECTION OF FLOW.

3. SEDIMENT MUST BE PERIODICALLY REMOVED FROM THE OVER-EXCAVATED AREA.

IP-6. STRAW BALE FOR SUMP INLET PROTECTION

STRAW BALE SUMP/AREA INLET PROTECTION INSTALLATION NOTES

1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. BALETS SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH CHAINS OF BALES TIGHTLY ABUTTING ONE ANOTHER.

IP-7. CULVERT INLET PROTECTION

CULVERT INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION OF CULVERT INLET PROTECTION.

2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK SOCK DESIGN REQUIREMENTS AND JOINING DETAIL.

CULVERT INLET PROTECTION MAINTENANCE NOTES

1. INSPECT BALES EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BALES SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BALES 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 BALES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BALES HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 8 INCHES ABOVE THE TOP OF THE ROCK SOCK.

5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AS APPROVED BY THE LOCAL JURISDICTION.

6. DEPOSITS FROM OTHER SOURCES, INCLUDING BUT NOT LIMITED TO AIRBORN DEPOSITS, SHOULD BE REMOVED AS NECESSARY.

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

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SC-6 Inlet Protection (IP)

IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

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1. CONCRETE "THICK" BLOCKS SHALL BE Laid ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.

2. GRavel SOCKS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.

IP-2. CURB SOCK SOCKS UPSTREAM OF INLET PROTECTION

CURB SOCK SOCK SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. POINTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MINIMUM SPACING OF 4 FEET.

3. STRIP MATERIAL/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

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IP-4. SILT FENCE FOR SUMP INLET PROTECTION

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IP-5. OVER-EXCAVATION INLET PROTECTION

OVER-EXCAVATION INLET PROTECTION INSTALLATION NOTES

1. THIS FORM OF INLET PROTECTION IS REMAINING APPLICABLE FOR SITES THAT HAVE NOT MET FINAL STABILIZATION CRITERIA. IT SHOULD BE USED ONLY FOR ALLEYS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA.

2. WHEN USING FOR CONCENTRATED FLOWS, SHAPE BENCH IN 2:1 RATIO WITH LENGTH ORIENTED TOWARD DIRECTION OF FLOW.

3. SEDIMENT MUST BE PERIODICALLY REMOVED FROM THE OVER-EXCAVATED AREA.

IP-6. STRAW BALE FOR SUMP INLET PROTECTION

STRAW BALE SUMP/AREA INLET PROTECTION INSTALLATION NOTES

1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. BALETS SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH CHAINS OF BALES TIGHTLY ABUTTING ONE ANOTHER.

IP-7. CULVERT INLET PROTECTION

CULVERT INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION OF CULVERT INLET PROTECTION.

2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK SOCK DESIGN REQUIREMENTS AND JOINING DETAIL.

CULVERT INLET PROTECTION MAINTENANCE NOTES

1. INSPECT BALES EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BALES SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BALES 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 BALES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

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4. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 8 INCHES ABOVE THE TOP OF THE ROCK SOCK.

5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AS APPROVED BY THE LOCAL JURISDICTION.

6. DEPOSITS FROM OTHER SOURCES, INCLUDING BUT NOT LIMITED TO AIRBORN DEPOSITS, SHOULD BE REMOVED AS NECESSARY.

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

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SC-6 Inlet Protection (IP)

IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

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IP-2. CURB SOCK SOCKS UPSTREAM OF INLET PROTECTION

CURB SOCK SOCK SOCK INLET PROTECTION INSTALLATION NOTES

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IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

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IP-4. SILT FENCE FOR SUMP INLET PROTECTION

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IP-5. OVER-EXCAVATION INLET PROTECTION

OVER-EXCAVATION INLET PROTECTION INSTALLATION NOTES

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IP-6. STRAW BALE FOR SUMP INLET PROTECTION

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1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. BALETS SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH CHAINS OF BALES TIGHTLY ABUTTING ONE ANOTHER.

IP-7. CULVERT INLET PROTECTION

CULVERT INLET PROTECTION INSTALLATION NOTES

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2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK SOCK DESIGN REQUIREMENTS AND JOINING DETAIL.

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5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AS APPROVED BY THE LOCAL JURISDICTION.

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Inlet Protection (IP) SC-6

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IP-2. CURB SOCK SOCKS UPSTREAM OF INLET PROTECTION

CURB SOCK SOCK SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

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IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

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IP-4. SILT FENCE FOR SUMP INLET PROTECTION

SILT FENCE SUMP INLET PROTECTION INSTALLATION NOTES

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IP-5. OVER-EXCAVATION INLET PROTECTION

OVER-EXCAVATION INLET PROTECTION INSTALLATION NOTES

1. THIS FORM OF INLET PROTECTION IS REMAINING APPLICABLE FOR SITES THAT HAVE NOT MET FINAL STABILIZATION CRITERIA. IT SHOULD BE USED ONLY FOR ALLEYS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA.

2. WHEN USING FOR CONCENTRATED FLOWS, SHAPE BENCH IN 2:1 RATIO WITH LENGTH ORIENTED TOWARD DIRECTION OF FLOW.

3. SEDIMENT MUST BE PERIODICALLY REMOVED FROM THE OVER-EXCAVATED AREA.

IP-6. STRAW BALE FOR SUMP INLET PROTECTION

STRAW BALE SUMP/AREA INLET PROTECTION INSTALLATION NOTES

1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. BALETS SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH CHAINS OF BALES TIGHTLY ABUTTING ONE ANOTHER.

IP-7. CULVERT INLET PROTECTION

CULVERT INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION OF CULVERT INLET PROTECTION.

2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK SOCK DESIGN REQUIREMENTS AND JOINING DETAIL.

CULVERT INLET PROTECTION MAINTENANCE NOTES

1. INSPECT BALES EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BALES SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BALES AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

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5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AS APPROVED BY THE LOCAL JURISDICTION.

6. DEPOSITS FROM OTHER SOURCES, INCLUDING BUT NOT LIMITED TO AIRBORN DEPOSITS, SHOULD BE REMOVED AS NECESSARY.

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

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GENERAL INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION OF INLET PROTECTION.

2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK SOCK DESIGN REQUIREMENTS AND JOINING DETAIL.

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

4. WHERE BALES HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

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7. DEPOSITS FROM OTHER SOURCES, INCLUDING BUT NOT LIMITED TO AIRBORN DEPOSITS, SHOULD BE REMOVED AS NECESSARY.

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SC-7 Sediment Basin (SB)

Maintenance and Removal

Drudge sediment from the basin, as needed to maintain BMP effectiveness, typically when the design storage volume is no more than one-third filled with sediment.

Inspect the sediment basin embankments for stability and seepage.

Inspect the inlet and outlet of the basin, repair damage, and remove debris. Remove, clean and replace the gravel around the outlet on a regular basis to remove the accumulated sediment within it and keep the outlet functioning.

Be aware that removal of a sediment basin may require dewatering and associated permit requirements.

Do not remove a sediment basin until the upstream area has been stabilized with vegetation.

Final disposition of the sediment basin depends on whether the basin will be converted to a permanent post-construction stormwater basin or whether the basin area will be returned to grade. For basins being converted to permanent detention basins, remove accumulated sediment and reconfigure the basin and outlet to meet the requirements of the final design for the detention facility. If the sediment basin is not to be used as a permanent detention facility, fill the excavated area with soil and stabilize with vegetation.

SEDIMENT BASIN PLAN

1. SEE PLAN VIEW FOR LOCATION OF SEDIMENT BASIN.

2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK SOCK DESIGN REQUIREMENTS AND JOINING DETAIL.

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

4. WHERE BALES HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

5. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 8 INCHES ABOVE THE TOP OF THE ROCK SOCK.

6. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AS APPROVED BY THE LOCAL JURISDICTION.

7. DEPOSITS FROM OTHER SOURCES, INCLUDING BUT NOT LIMITED TO AIRBORN DEPOSITS, SHOULD BE REMOVED AS NECESSARY.

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

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Sediment Basin (SB) SC-7

TABLE SB-1. DESIGN INFORMATION FOR STANDARD SEDIMENT BASIN

Basin Area (Acres)	Basin Length (ft)	Basin Width (ft)	Basin Depth (ft)	Basin Volume (cu yd)
1	120	20	2	1000
2	150	25	2	1500
3	180	30	2	2000
4	210	35	2	2500
5	240	40	2	3000
6	270	45	2	3500
7	300	50	2	4000
8	330	55	2	4500
9	360	60	2	5000
10	390	65	2	5500
11	420	70	2	6000
12	450	75	2	6500
13	480	80	2	7000
14	510	85	2	7500
15	540	90	2	8000
16	570	95	2	8500
17	600	100	2	9000
18	630	105	2	9500
19	660	110	2	10000
20	690	115	2	10500

SEDIMENT BASIN INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION OF SEDIMENT BASIN.

2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK SOCK DESIGN REQUIREMENTS AND JOINING DETAIL.

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

4. WHERE BALES HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

5. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 8 INCHES ABOVE THE TOP OF THE ROCK SOCK.

6. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AS APPROVED BY THE LOCAL JURISDICTION.

7. DEPOSITS FROM OTHER SOURCES, INCLUDING BUT NOT LIMITED TO AIRBORN DEPOSITS, SHOULD BE REMOVED AS NECESSARY.

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

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SC-7 Sediment Basin (SB)

Mark in this table what row applies to this project

TABLE SB-1. DESIGN INFORMATION FOR STANDARD SEDIMENT BASIN

Basin Area (Acres)	Basin Length (ft)	Basin Width (ft)	Basin Depth (ft)	Basin Volume (cu yd)
1	120	20	2	1000
2	150	25	2	1500
3	180	30	2	2000
4	210	35	2	2500
5	240	40	2	3000
6	270	45	2	3500
7	300	50	2	4000
8	330	55	2	4500
9	360	60	2	5000
10	390	65	2	5500
11	420	70	2	6000
12	450	75	2	6500
13	480	80	2	7000
14	510	85	2	7500
15	540	90	2	8000
16	570	95	2	8500
17	600	100	2	9000
18	630	105	2	9500
19	660	110	2	10000
20	690	115	2	10500

SEDIMENT BASIN INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION OF SEDIMENT BASIN.

2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK SOCK DESIGN REQUIREMENTS AND JOINING DETAIL.

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

4. WHERE BALES HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

5. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 8 INCHES ABOVE THE TOP OF THE ROCK SOCK.

6. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AS APPROVED BY THE LOCAL JURISDICTION.

7. DEPOSITS FROM OTHER SOURCES, INCLUDING BUT NOT LIMITED TO AIRBORN DEPOSITS, SHOULD BE REMOVED AS NECESSARY.

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

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Sediment Basin (SB) SC-7

SEDIMENT BASIN MAINTENANCE NOTES

1. INSPECT BALES EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BALES SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BALES 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 BALES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BALES HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 8 INCHES ABOVE THE TOP OF THE ROCK SOCK.

5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AS APPROVED BY THE LOCAL JURISDICTION.

6. DEPOSITS FROM OTHER SOURCES, INCLUDING BUT NOT LIMITED TO AIRBORN DEPOSITS, SHOULD BE REMOVED AS NECESSARY.

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

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Vehicle Tracking Control (VTC) SM-4

VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

75 FOOT (MIN.)

30 FOOT CROWN CAN BE USED IN CONJUNCTION WITH THIS COURSE AGGREGATE OR 6" MINUS ROCK

UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTIONS USE COURSE AGGREGATE OR 6" MINUS ROCK

UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTIONS USE COURSE AGGREGATE OR 6" MINUS ROCK

INSTALL ROCK FLOOR WITH OR BELOW TOP OF PAVEMENT

COMPACTED SUBGRADE

VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

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

SM-4 Vehicle Tracking Control (VTC)

VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK

NOTE: WASH RACKS MAY NOT BE USED IN AREAS WITH HIGH TRAFFIC VOLUMES OR WHERE THERE IS A HIGH RISK OF WASH RACK FAILURE.

REINFORCED CONCRETE CURB MAY SUBSTITUTE STEEL SUTURE GROUND FOR CONCRETE FROG

SECTION A

67" MIN.

VTC-2. AGGREGATE VEHICLE TRACKING CONTROL WITH WASH RACK

VTC-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Vehicle Tracking Control (VTC) SM-4

VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)

CONSTRUCTION MAT (CM) OR TURF REINFORCEMENT MAT (TRM)

CONSTRUCTION MAT (CM) OR TURF REINFORCEMENT MAT (TRM)

VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION MAT OR TURF REINFORCEMENT MAT (TRM)

VTC-5 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

SM-4 Vehicle Tracking Control (VTC)

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT.

2. CONSTRUCTION MAT OR TRM SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DEVELOPMENT ACTIVITY THAT RESULTS IN SOIL EXPOSURE AS A STABILIZED CONSTRUCTION ENTRANCE/EXIT.

3. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAY.

4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE REINFORCED FROM UP-DRIVE TO PREVENT UNDERMINING OF THE ENTRANCE/EXIT.

5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT TO PREVENT THE PLACEMENT OF ROCK.

6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SIZE 57, FILL HARDY #3 COURSE AGGREGATE OR 6" MINUS ROCK.

STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

1. INSPECT BALES EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BALES SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BALES AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE