AGENCIES SERVICE **ENTITY** JOVENCHI-II LLC OWNER: 4779 N. ACADEMY BLVD. COLORADO SPRINGS, CO 80918 **CONTRACTOR: CONSTRUCTION MANAGEMENT &** CONSULTING, INC P.O. BOX 7207 COLORADO SPRINGS, CO 80933

(719) 491-2158

(719) 448-4800

(719) 597-5080

(719) 597-5080

(719) 575-0100

(719) 528-5999

CIVIL ENGINEER: MATRIX DESIGN GROUP (719) 575-0100 2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO 80920

GAS: COLORADO SPRINGS UTILITIES (719) 448-4800 111 SOUTH CASCADE AVENUE COLORADO SPRINGS, CO 80903

COLORADO SPRINGS UTILTIES

111 SOUTH CASCADE AVENUE

COLORADO SPRINGS, CO 80903 TELEPHONE COMPANY: XFINITY/COMCAST (800) 934-6489 5910 BARNES ROAD COLORADO SPRINGS, CO 80922

FIRE DEPARTMENT: CIMARRON HILLS FIRE DEPARTMENT (719) 591-0960 1885 PETERSON RD. COLORADO SPRINGS, COLORADO, 80915

CHEROKEE METROPOLITAN DISTRICT

6250 PALMER PARK BOULEVARD COLORADO SPRINGS, COLORADO 80915 WATER:

CHEROKEE METROPOLITAN DISTRICT 6250 PALMER PARK BOULEVARD COLORADO SPRINGS, COLORADO 80915

SURVEYOR: MATRIX DESIGN GROUP 2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, COLORADO 80920

WASTEWATER:

ELECTRIC:

WATER RESOURCES:

GRADING & EROSION CONTROL PLANS OF PROPOSED

CIMARRON HILLS SOUTHEAST FILING NO. 1

SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 14 SOUTH, RANGE

65 WEST OF THE 6TH P.M

EL PASO COUNTY, STATE OF COLORADO

AUGUST 2024





VICINITY MAP N.T.S.

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

EPC STORMWATER REVIEW COMMENTS

Call before you dig.

IN ORANGE BOXES WITH BLACK TEXT

OWNER/DEVELOPER'S STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

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 DIRECTORS DISCRETION.

JENNIFER IRVINE, P.E. COUNTY ENGINEER / ECM ADMINISTRATOR

		SHEET INDEX
SHEET NUMBER	SHEET TITLE	SHEET DISCRIPTION
1	TS01	TITLE SHEET
2	GNO1	GENERAL NOTES
3	MAP01	SHEET KEY
4	GEC01	INITIAL GRADING & EROSION CONTROL PLANS (SHEET 1 0F 2)
5	GEC02	INITIAL GRADING & EROSION CONTROL PLANS (SHEET 2 0F 2)
6	GEC03	INTERIM GRADING & EROSION CONTROL PLANS (SHEET 1 0F 2)
7	GEC04	INTERIM GRADING & EROSION CONTROL PLANS (SHEET 2 0F 2)
8	GEC05	FINAL GRADING & EROSION CONTROL PLANS (SHEET 1 0F 2)
9	GEC06	FINAL GRADING & EROSION CONTROL PLANS (SHEET 2 0F 2)
10	ECD01	GRADING & EROSION CONTROL DETAILS (SHEET 1 OF 4)
11	ECD02	GRADING & EROSION CONTROL DETAILS (SHEET 2 OF 4)
12	ECD03	GRADING & EROSION CONTROL DETAILS (SHEET 3 OF 4)
13	ECD04	GRADING & EROSION CONTROL DETAILS (SHEET 4 OF 4)

REFERENCE				
DRAWINGS	##	##	##	##
X-MDG22x34	##	##	##	##
X-1382-EX-VIC MAP	##	##	##	##
X-1382-PR-SITE X-1382-EX-MAP	##	##	##	##
X 1002 EX WITH	##	##	##	##
	No.	DATE	DESCRIPTION	BY
			REVISIONS	
	CON	IPUTER FIL	E MANAGEMENT	
	CTB F PLOT	ILE: Matrix.c DATE: August :	2.003 Peterson Road and Meadowbrook Parkway Overall Development\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\TS01.dwg tb 23, 2024 8:37:29 AM AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.	

NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.

REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET.



CIMARRON HILLS SOUTHEAST FILING NO. 1

GRADING AND EROSION CONTROL PLANS EL PASO COUNTY, COLORADO

TITLE SHEET

FOR AND ON BEHALF OF	DES
MATRIX DESIGN GROUP, INC.	DRA
PROJECT No. 24.1382.003	CHE

PRELIMINARY

THIS DRAWING HAS NOT BEEN APPROVED BY

GOVERNING AGENCIES AND

IS SUBJECT TO CHANGE

N BEHALF OF	DESIGNED E
GN GROUP, INC.	DRAWN BY:
o 24 1382 003	CHECKED B

AUGUST 2024 DRAWING No. 1 OF 13

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 STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL. 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 "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GRADING EROSION CONTROL PLANS. 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..
- BEST MANAGEMENT PRACTICES 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 BEST MANAGEMENT PRACTICES 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 GRADING AND EROSION CONTROL APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT

DEFLECT

ELEVATION

EXISTING

FIRE HYDRANT

HORIZONTAL

FLANGE

DUCTILE IRON PIPE

GALLONS PER MINUTE

INCLUDES FIRE HYDRANT

LATERAL, VALVE, TIE RODS,

AND REVERSE ANCHOR

V.P.I. GRADE BREAK

HIGH DEFLECTION

ABBREVIATIONS

ASSEMBLY

AND VALVE

COUPLING

ANCHOR

CHEROKEE

DISTRICT

BACK OF WALL

(INSULATING)

(REDUCING)

CONCRETE THRUST

REACTION BLOCK

METROPOLITAN

(STRAIGHT)

BOTTOM OF PIPE

BLOWOFF ASSEMBLY EL.

CONCRETE REVERSE HORIZ

GPM

GRD BRK

HYD ASSY

ASSY

BOP

BOV

BOW

(INS.) (RED.)

(STR.)

CTRB

CMD

CRA

CPLNG

- STRUCTURES MUST BE APPROVED BY THE ENGINEER OF RECORD ADIMINSTRATOR 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. 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.
- 16. 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.
- 17. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE
- 18. 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.
- 19. 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.
- 20. 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

REDUCER

RIGHT OF

CENTER LINE

SHOULDER

SLIP JOINT

SANITARY SEWER

STORM SEWER

TOP OF PIPE

WATER LINE

TYPICAL

TOP OF WALL

SLEEVE

STATION

RSNTS

MJ RESTRAINT

(i.e. MEGALUG)

- SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- 21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- 22. 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.
- 23. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- 24. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- 25. 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.
- 26. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY CTL THOMPSON DATED JULY 2024.
- 27. 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

- 28. NO NOTABLE VEGETATION ONSITE, ONLY NATIVE GRASSES AND SHRUBS.
- 29. NO GRADING OR DISTURBANCE SHALL OCCUR WITHIN THE 100-YR FLOODPLAIN UNTIL PERMITTING IS ACQUIRED.

NRCS SOIL SURVEY FOR EL PASO COUNTY

		HYDROLOGIC
SOIL ID NO.	SOIL TYPE	CLASSIFICATION
8	BLAKELAND LOAMY SAND (1%-9% SLOPES)	Α
10	BLENDON SANDY LOÁM (0%-3% SLOPES)	В

TIMING

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING: MAY 2025 THRU SEPTEMBER 2025

EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETED: MAY 2026

AREAS

TOTAL DISTURBED AREA: 9.62 ACRES

RECEIVING WATERS

SAND CREEK (ULTIMATE)

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

NPDES NOTES:

- THE CONTRACTOR SHALL REMOVE ALL SEDIMENT, MUD, AND CONSTRUCTION DEBRIS THAT MAY ACCUMULATE IN THE FLOWLINES AND PUBLIC RIGHTS OF WAYS AS A RESULT OF THIS CONSTRUCTION PROJECT. SAID REMOVAL SHALL BE CONDUCTED IN A TIMELY MANNER, OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
- THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT.
- 4. A LAYER OF SUITABLE MULCH SHALL BE APPLIED TO ALL DISTURBED PORTIONS OF THE SITE WITHIN 21 DAYS OF THE COMPLETION OF GRADING. SAID MULCH SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE AND SHALL BE TACKED OR FASTENED BY AN APPROVED METHOD SUITABLE FOR THE TYPE OF MULCH USED. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THEN SIXTY (60) DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMP'S SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.
- THE CONTRACTOR SHALL LOCATE, INSTALL, AND MAINTAIN ALL EROSION CONTROL AND WATER QUALITY "BEST MANAGEMENT PRACTICES" AS INDICATED IN THE APPROVED CONSTRUCTION ACTIVITIES STORMWATER MANAGEMENT PLAN. BMP'S SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT.
- AT A MINIMUM, THE CONTRACTOR SHALL INSPECT, AND KEEP A LOG OF, ALL BMP'S WEEKLY AND AFTER SIGNIFICANT PRECIPITATION EVENTS. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IN A TIMELY MANNER. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM A BMP WHEN THE SEDIMENT LEVEL REACHES ONE-HALF THE HEIGHT OF THE BMP, OR, AT ANY TIME THAT SEDIMENT OR DEBRIS ADVERSELY IMPACTS THE FUNCTIONING OF THE BMP.
- 7. THE CONTRACTOR SHALL PROPERLY COVER ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT WITHIN PUBLIC RIGHTS OF WAY.
- THE USE OF REBAR, STEEL STAKES, OR STEEL FENCE POSTS TO STAKE DOWN STRAW OR HAY BALES; OR TO SUPPORT SILT FENCING USED AS AN EROSION CONTROL MEASURE; IS PROHIBITED THE USE OF OSHA APPROVED COLORED WARNING CAPS ON REBAR OR FENCE POSTS USED WITH EROSION CONTROL MEASURES IS NOT ACCEPTABLE.
- SOILS THAT WILL BE STOCKPILED FOR MORE THAN 30 DAYS SHALL BE MULCHED AND SEEDED WITH A TEMPORARY OR PERMANENT GRASS COVER WITHIN 21 DAYS OF STOCKPILE CONSTRUCTION. IF STOCKPILES ARE LOCATED WITHIN 100 FEET OF A DRAINAGEWAY. ADDITIONAL SEDIMENT CONTROLS SUCH AS TEMPORARY DIKES OR SILT FENCE SHALL BE REQUIRED.
- 10. MODIFICATION OF AN ACTIVE EROSION AND SEDIMENT CONTROL PERMIT BY THE CONTRACTOR SHALL REQUIRE TIMELY NOTIFICATION OF AND APPROVAL BY THE APPROPRIATE AGENCY TERMINATION OF AN ACTIVE EROSION AND SEDIMENT CONTROL PERMIT UPON COMPLETION OF THE PROJECT REQUIRES NOTIFICATION OF AND APPROVAL.
- 11. UNLESS CONFINED IN THE SPECIFIED CONCRETE WASHOUT AREA. THE CLEANING OF CONCRETE TRUCK DELIVERY CHUTES IS PROHIBITED AT THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CEMENT TO THE STORM SEWER SYSTEM IS PROHIBITED.
- 12. THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE. THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING OPERATIONS ON A DAILY BASIS.

REFERENCE				
DRAWINGS	##	##	##	##
X-MDG22x34	##	##	##	##
X-1382-EX-VIC MAP	##	##	##	##
X-1382-PR-SITE X-1382-EX-MAP	##	##	##	##
7. 1002 EX 1000	##	##	##	##
	No.	DATE	DESCRIPTION	BY
			REVISIONS	
	CON	1PUTER FIL	E MANAGEMENT	
	CTB F	ILE: Matrix.c DATE: August :	2.003 Peterson Road and Meadowbrook Parkway Overall Development\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\TS01.dwg tb 23, 2024 8:37:32 AM AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.	

LT

MIN

PSI

N,S,E,W

LEFT OF CENTER LINE

NORTH, SOUTH, EAST, WEST

POUNDS PER SQUARE INCH

POLYVINYL CHLORIDE PIPE

REINFORCED CONCRETE PIPE SS

MECHANICAL JOINT

PROPERTY LINE

MINIMIM

NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET

REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8. TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2.641.77 FEET.



PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND

IS SUBJECT TO CHANGE

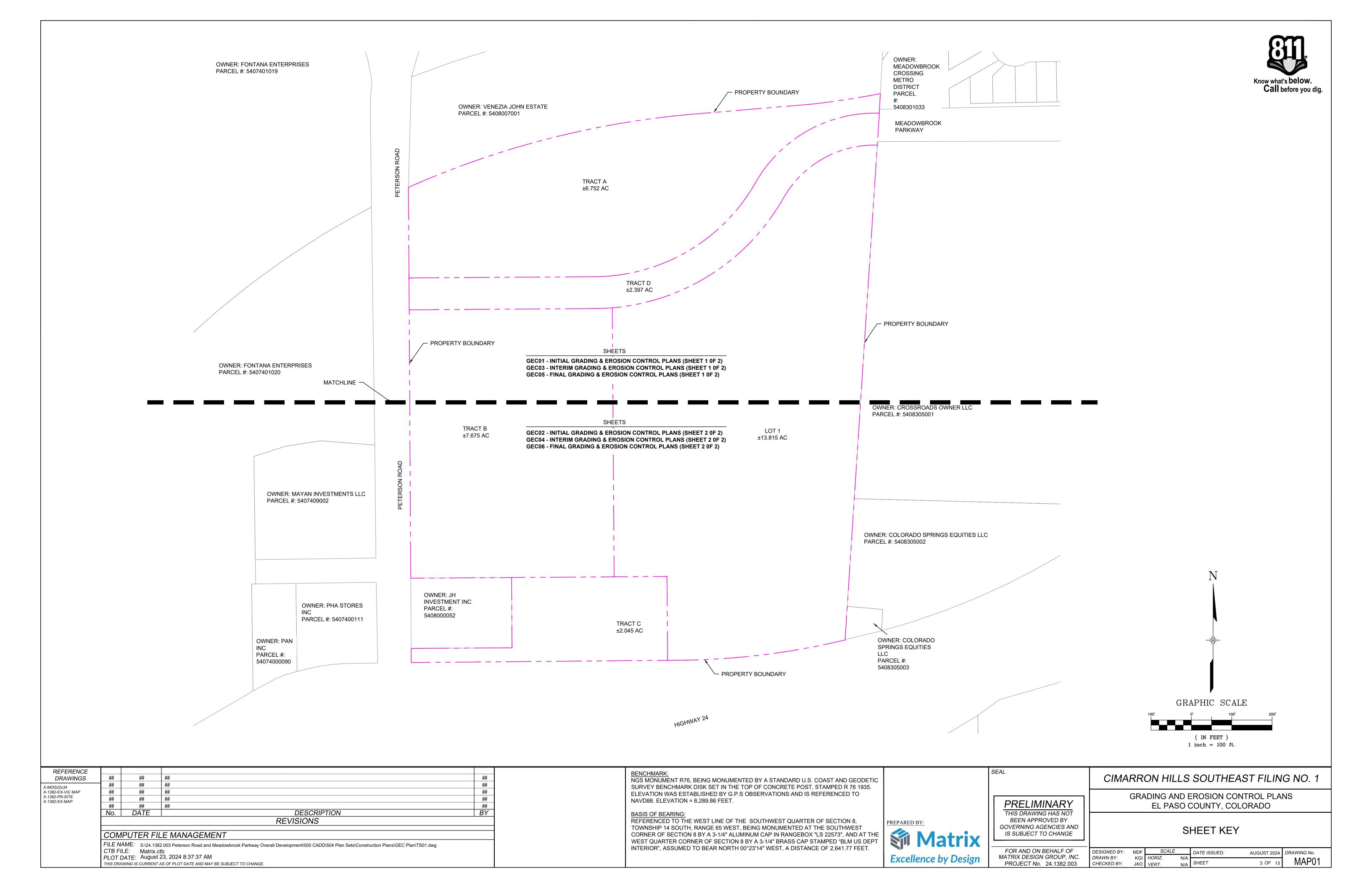
GENERAL NOTES

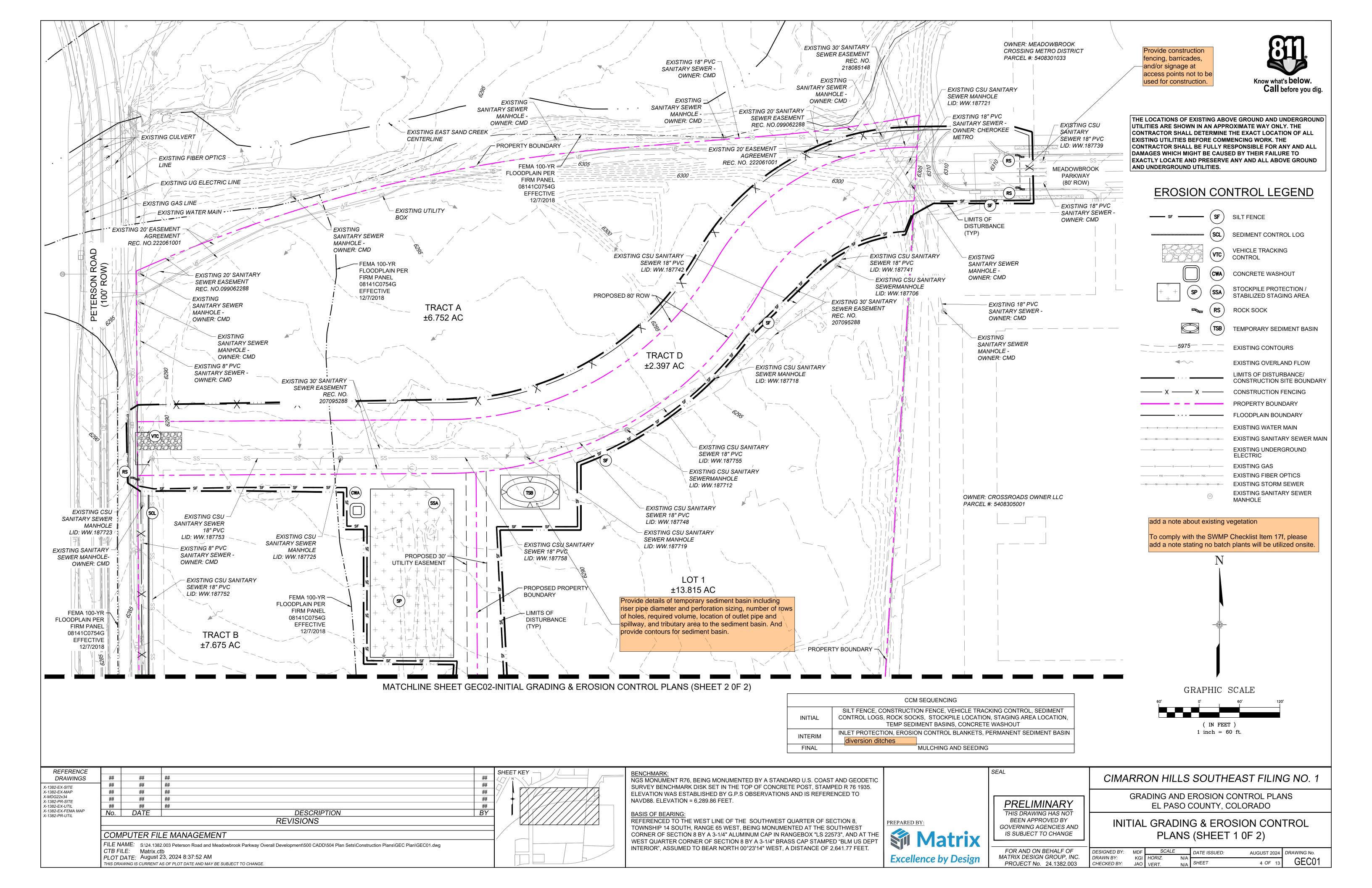
CIMARRON HILLS SOUTHEAST FILING NO. 1

GRADING AND EROSION CONTROL PLANS

EL PASO COUNTY. COLORADO

FOR AND ON BEHALF OF SCALE DESIGNED BY: MDF DATE ISSUED: AUGUST 2024 DRAWING No. MATRIX DESIGN GROUP, INC. DRAWN BY: GNO1 2 OF 13 PROJECT No. 24.1382.003 CHECKED BY:







FOR AND ON BEHALF OF

MATRIX DESIGN GROUP, INC.

PROJECT No. 24.1382.003

Excellence by Design

DESIGNED BY:

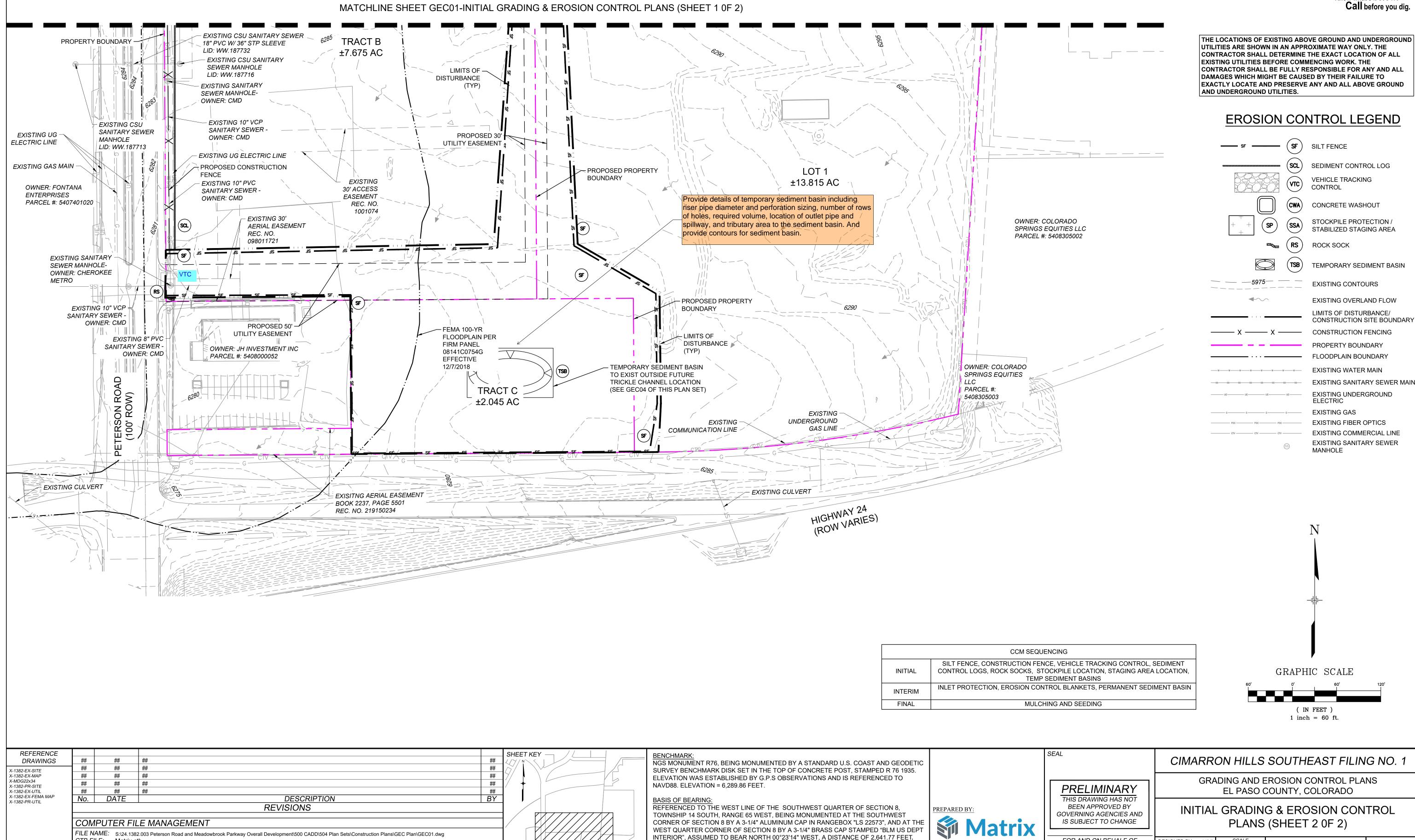
CHECKED BY:

DRAWN BY:

DATE ISSUED:

AUGUST 2024 DRAWING No.

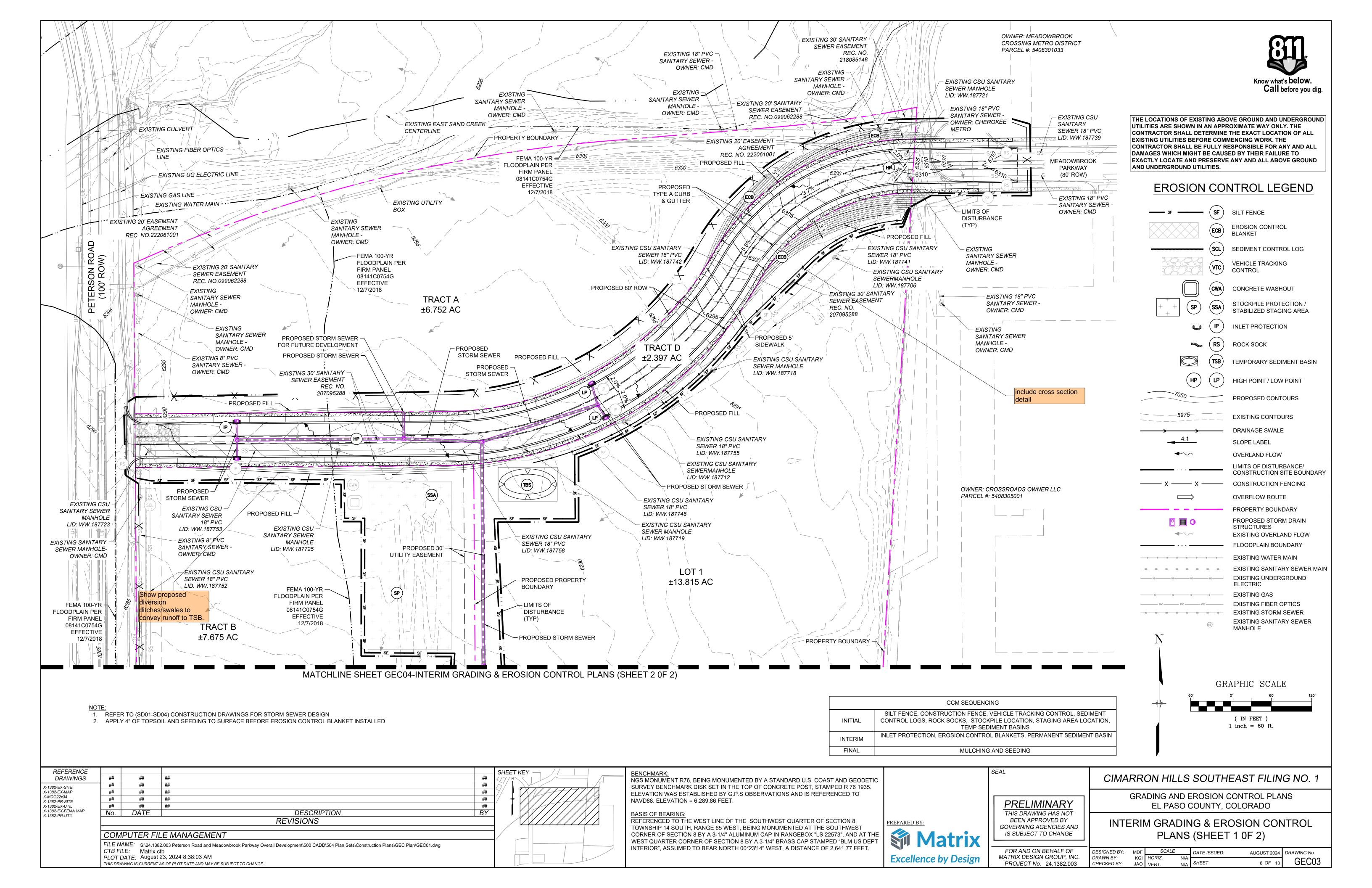
5 OF 13



CTB FILE: Matrix.ctb

PLOT DATE: August 23, 2024 8:37:57 AM

THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.





IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF

MATRIX DESIGN GROUP, INC.

PROJECT No. 24.1382.003

Excellence by Design

DESIGNED BY:

DRAWN BY:

CHECKED BY:

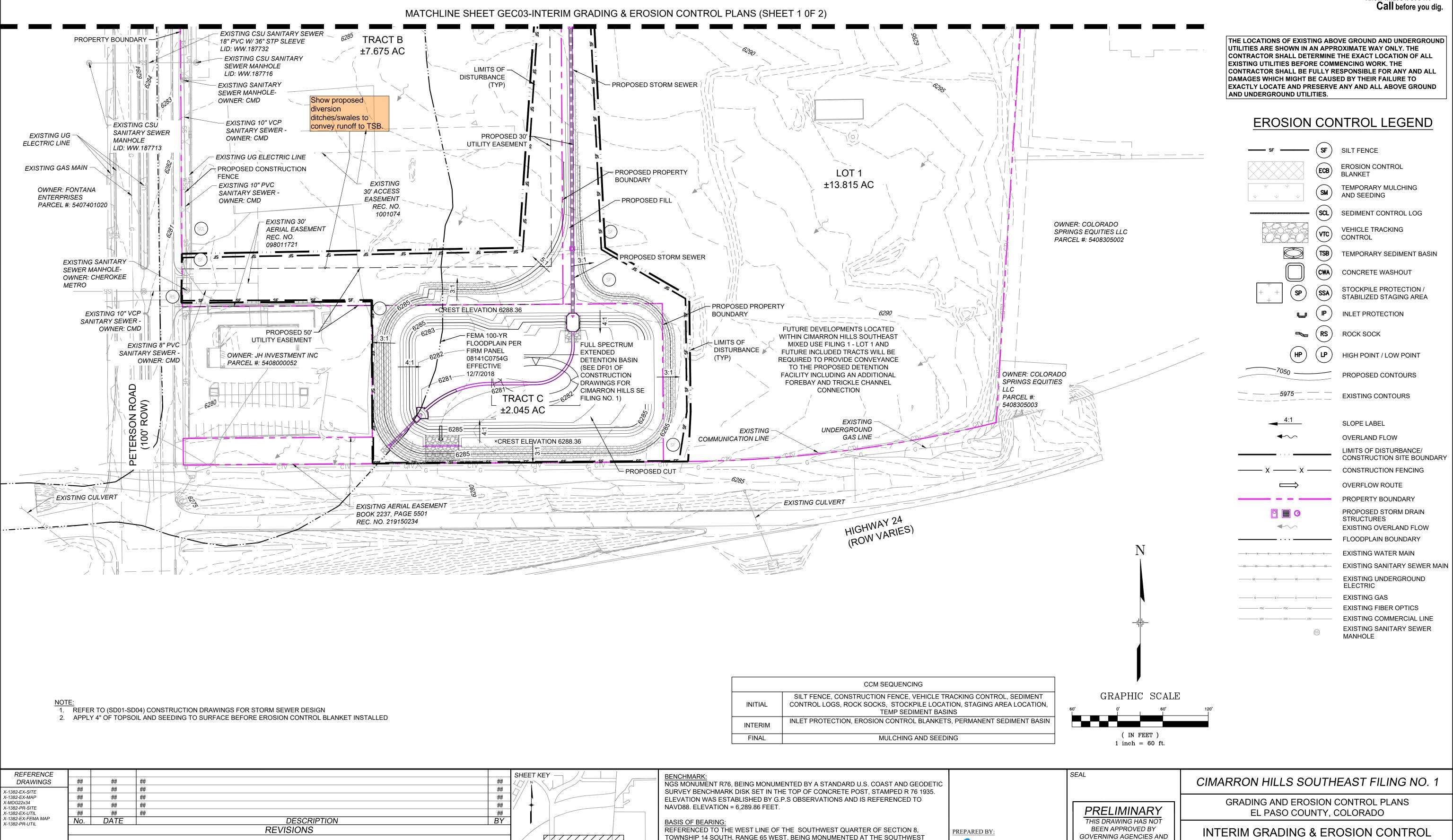
PLANS (SHEET 2 0F 2)

AUGUST 2024 DRAWING No.

7 OF 13

GEC04

DATE ISSUED:



CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT

INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET.

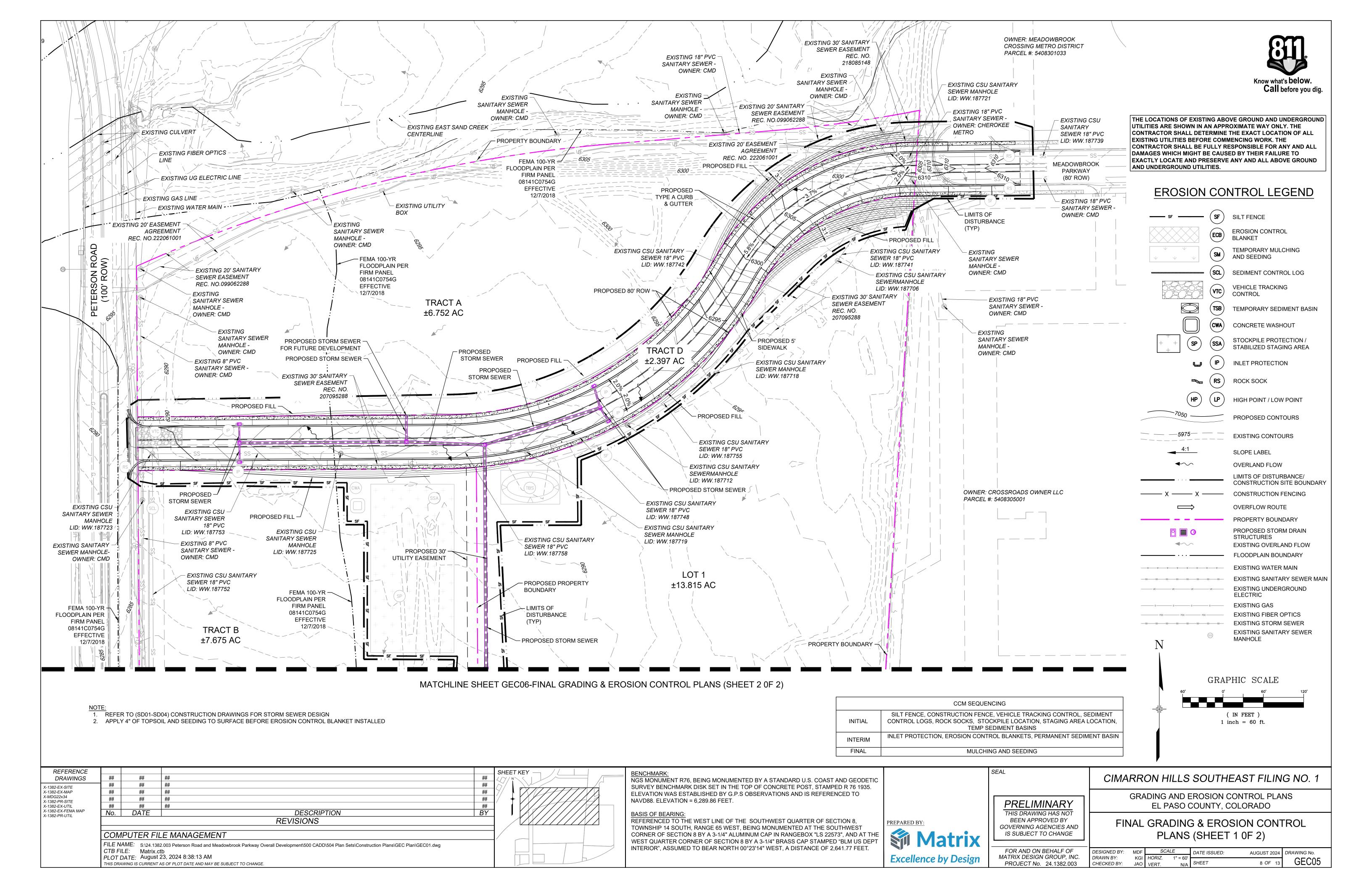
COMPUTER FILE MANAGEMENT

THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

PLOT DATE: August 23, 2024 8:38:07 AM

CTB FILE: Matrix.ctb

FILE NAME: S:\24.1382.003 Peterson Road and Meadowbrook Parkway Overall Development\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\GEC01.dwg



MATCHLINE SHEET GEC05-FINAL GRADING & EROSION CONTROL PLANS (SHEET 1 0F 2) Know what's **below**. Call before you dig. EXISTING CSU SANITARY SEWER TRACT B PROPERTY BOUNDARY -18" PVC W/ 36" STP SLEEVE LID: WW.187732 ±7.675 AC EXISTING CSU SANITARY THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND SEWER MANHOLE UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE LIMITS OF -LID: WW.187716 CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL DISTURBANCE EXISTING UTILITIES BEFORE COMMENCING WORK. THE **EXISTING SANITARY** - PROPOSED STORM SEWER CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL SEWER MANHOLE-DAMAGES WHICH MIGHT BE CAUSED BY THEIR FAILURE TO OWNER: CMD EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES. EXISTING 10" VCP EXISTING CSU SANITARY SEWER -SANITARY SEWER EXISTING UG -PROPOSED 30' OWNER: CMD **EROSION CONTROL LEGEND** MANHOLE ELECTRIC LINE **UTILITY EASEMENT** LID: WW.187713 EXISTING UG ELECTRIC LINE make black or color so EXISTING GAS MAIN 7 PROPOSED CONSTRUCTION SILT FENCE LOT 1 > PROPOSED PROPERTY that it is legible in field BOUNDARY ±13.815 AC show all areas of **EXISTING** EXISTING 10" PVC **EROSION CONTROL** OWNER: FONTANA 30' ACCESS seeding and mulching. SANITARY SEWER -**BLANKET ENTERPRISES EASEMENT** make black or color so OWNER: CMD - PROPOSED FILL PARCEL #: 5407401020 REC. NO. TEMPORARY MULCHING that it is legible in field 1001074 AND SEEDING OWNER: COLORADO AERIAL EASEMENT SPRINGS EQUITIES LLC SEDIMENT CONTROL LOG REC. NO. PARCEL #: 5408305002 098011721 VEHICLE TRACKING label as Pond 1 CONTROL PROPOSED STORM SEWER EXISTING SANITARY SEWER MANHOLE-OWNER: CHEROKEE **METRO** STOCKPILE PROTECTION / STABILIZED STAGING AREA PROPOSED PROPERTY ×CREST ELEVATION 6288.36 EXISTING 10" VCP BOUNDARY **ROCK SOCK** SANITARY SEWER -OWNER: CMD **FUTURE DEVELOPMENTS LOCATED** PROPOSED 50' -- FEMA 100-YR PROPOSED CONTOURS WITHIN CIMARRON HILLS SOUTHEAST UTILITY EASEMENT FLOODPLAIN PER - LIMITS OF MIXED USE FILING 1 - LOT 1 AND EXISTING 8" PVC FULL SPECTRUM DISTURBANCE 🖌 FIRM PANEL FUTURE INCLUDED TRACTS WILL BE SANITARY SEWER -EXTENDED 🗸 OWNER: JH INVESTMENT INC **EXISTING CONTOURS** 08141C0754G **DETENTION BASIN** REQUIRED TO PROVIDE CONVEYANCE OWNER: CMD PARCEL #: 5408000052 **EFFECTIVE** (SEE DF01 OF TO THE PROPOSED DETENTION 12/7/2018 OWNER: COLORADO SLOPE LABEL CONSTRUCTION **FACILITY INCLUDING AN ADDITIONAL** SPRINGS EQUITIES FOREBAY AND TRICKLE CHANNEL DRAWINGS FOR OVERLAND FLOW CIMARRON HILLS SE CONNECTION TRACT C PARCEL #: FILING NO. 1) LIMITS OF DISTURBANCE/ 5408305003 ±2.045 AC CONSTRUCTION SITE BOUNDARY CONSTRUCTION FENCING EXISTING -UNDERGROUND OVERFLOW ROUTE COMMUNICATION LINE GAS LINE ×CREST ELEVATION 6288.36 PROPERTY BOUNDARY PROPOSED STORM DRAIN STRUCTURES TPROPOSED CUT EXISTING OVERLAND FLOW FLOODPLAIN BOUNDARY EXISTING CULVERT - EXISTING CULVERT EXISITNG AERIAL EASEMENT - BOOK 2237, PAGE 5501 HIGHWAY 24 (ROW VARIES) ─────────────────────────── EXISTING SANITARY SEWER MAIN REC. NO. 219150234 EXISTING UNDERGROUND ELECTRIC **EXISTING GAS EXISTING FIBER OPTICS EXISTING COMMUNICATION LINE EXISTING SANITARY SEWER** MANHOLE CCM SEQUENCING SILT FENCE, CONSTRUCTION FENCE, VEHICLE TRACKING CONTROL, SEDIMENT CONTROL LOGS, ROCK SOCKS, STOCKPILE LOCATION, STAGING AREA LOCATION, GRAPHIC SCALE TEMP SEDIMENT BASINS INLET PROTECTION, EROSION CONTROL BLANKETS, PERMANENT SEDIMENT BASIN 1. REFER TO (SD01-SD04) CONSTRUCTION DRAWINGS FOR STORM SEWER DESIGN INTERIM 2. APPLY 4" OF TOPSOIL AND SEEDING TO SURFACE BEFORE EROSION CONTROL BLANKET INSTALLED MULCHING AND SEEDING FINAL (IN FEET) 1 inch = 60 ft.SHEET KEY CIMARRON HILLS SOUTHEAST FILING NO. 1 DRAWINGS NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. K-1382-EX-SITE X-1382-EX-MAP ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO GRADING AND EROSION CONTROL PLANS X-MDG22x34 NAVD88. ELEVATION = 6,289.86 FEET. PRELIMINARY X-1382-PR-SITE EL PASO COUNTY, COLORADO X-1382-EX-UTIL X-1382-EX-FEMA MAP DESCRIPTION BY No. DATE THIS DRAWING HAS NOT X-1382-PR-UTIL REVISIONS BEEN APPROVED BY REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, FINAL GRADING & EROSION CONTROL PREPARED BY: GOVERNING AGENCIES AND TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST IS SUBJECT TO CHANGE PLANS (SHEET 2 0F 2) COMPUTER FILE MANAGEMENT CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT FILE NAME: S:\24.1382.003 Peterson Road and Meadowbrook Parkway Overall Development\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\GEC01.dwg INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET. CTB FILE: Matrix.ctb FOR AND ON BEHALF OF SCALE DESIGNED BY: DATE ISSUED: AUGUST 2024 DRAWING No.

MATRIX DESIGN GROUP, INC.

PROJECT No. 24.1382.003

DRAWN BY:

CHECKED BY:

GEC06

9 OF 13

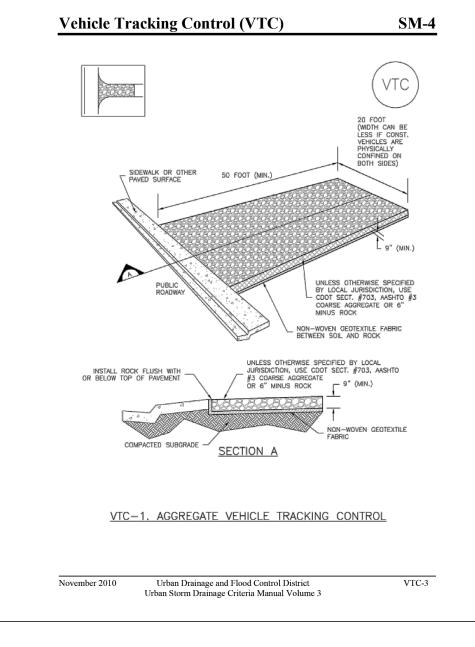
Excellence by Design

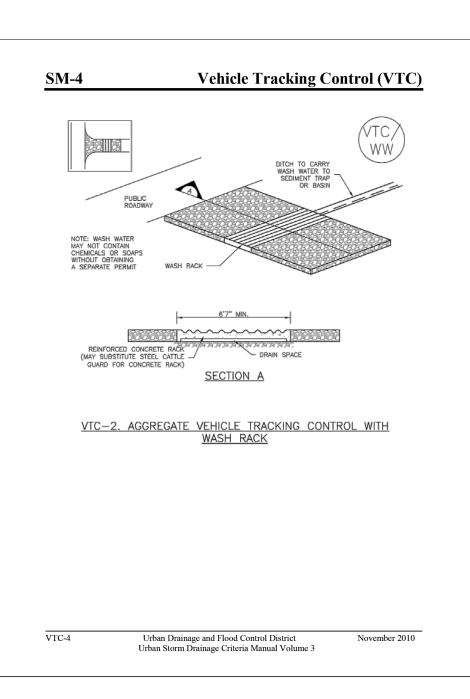
PLOT DATE: August 23, 2024 8:38:17 AM

THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

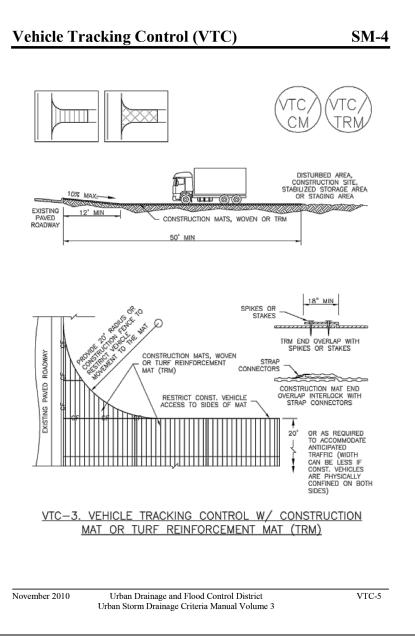


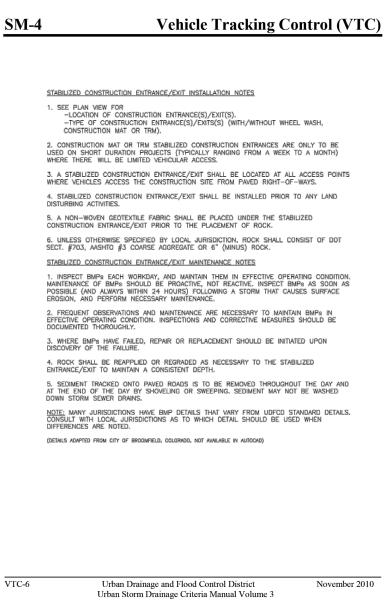
Replace with EPC approved VTC detail (VT-1 and VT-2 in DCMv2, Chap 3.3) or revise to be 75ft min

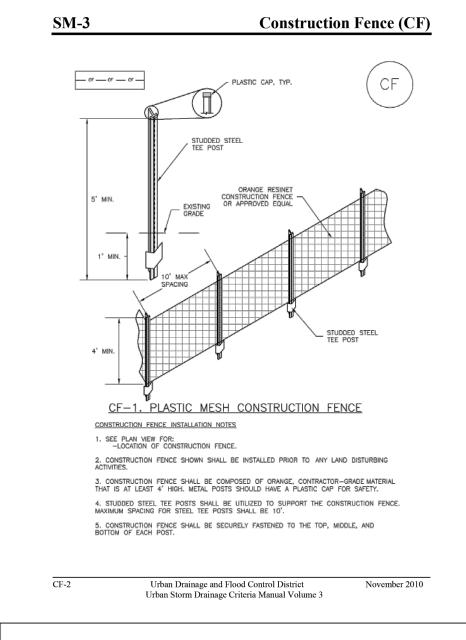


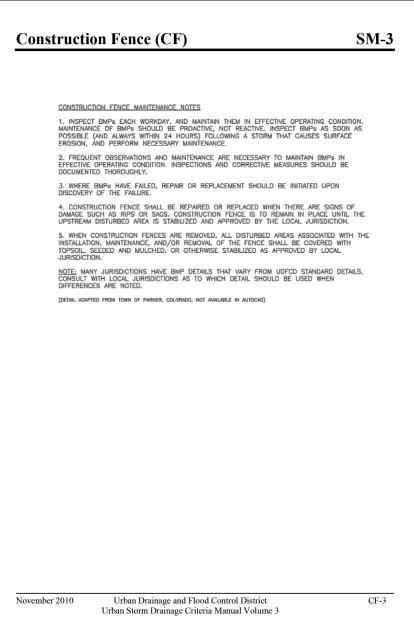


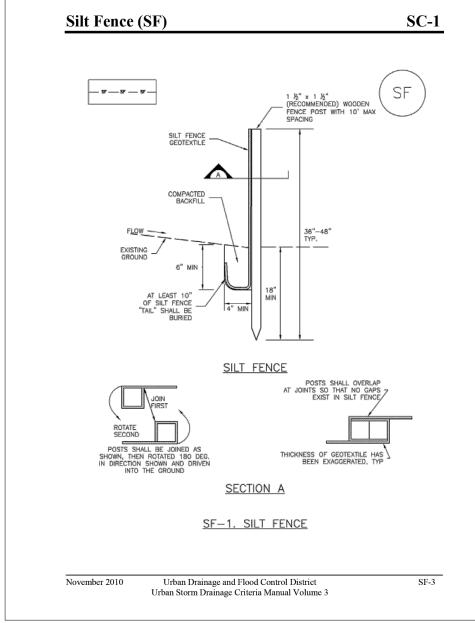
Silt Fence (SF)









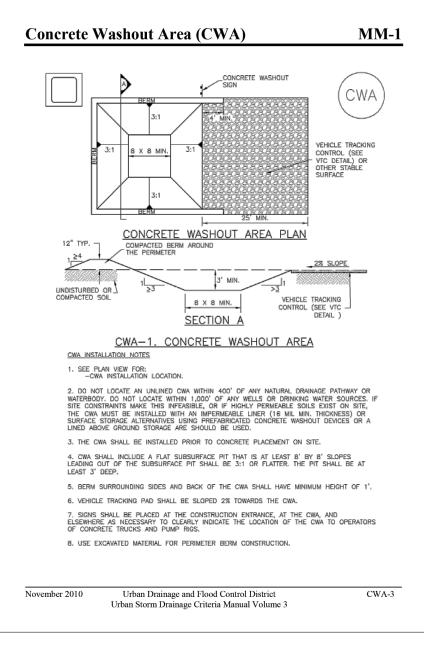


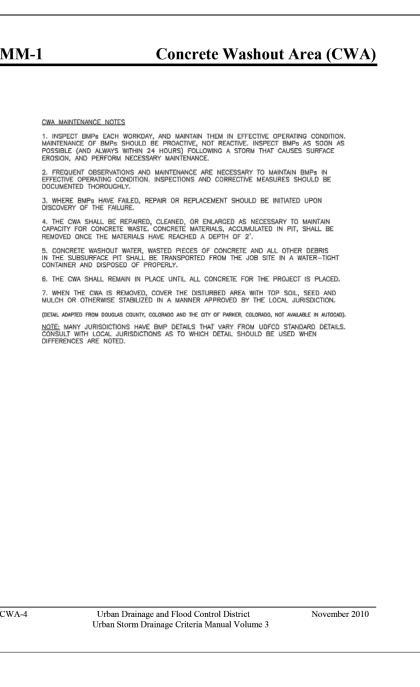
CTB FILE: Matrix.ctb

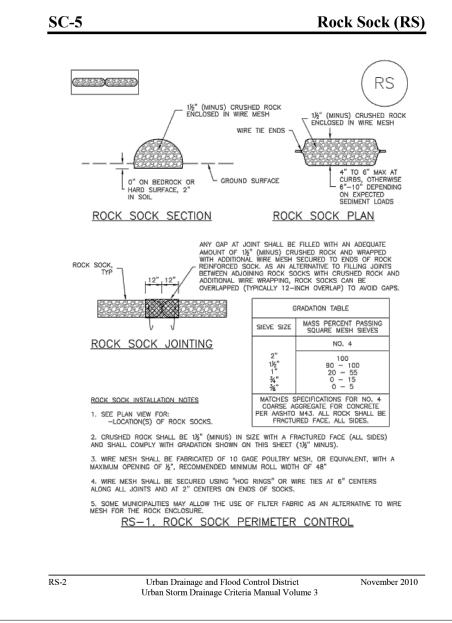
PLOT DATE: August 23, 2024 8:38:40 AM

THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.









ROCK SOCK MAINTENANCE NOTES FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. 4. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR. 5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY $\frac{1}{2}$ OF THE HEIGHT OF THE ROCK SOCK. 6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION. 7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION. (DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD) NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED. NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET, UDFOD NEITHER NDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS. Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

Rock Sock (RS)

REFERENCE					SHEET KEY — //
DRAWINGS	##	##	##	##	1/7/N
X-MDG22x34	##	##	##	##	
X IND GLEXO	##	##	##	##	
	##	##	##	##	\(\frac{1}{2}\)
	##	##	##	##	
	No.	DATE	DESCRIPTION	BY	
			REVISIONS		
	CON	IPUTER FIL	E MANAGEMENT		
	FILE N	IAME: S:\24.138	2.003 Peterson Road and Meadowbrook Parkway Overall Development\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\ECD01.dwg		

NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.

BASIS OF BEARING:

REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET.

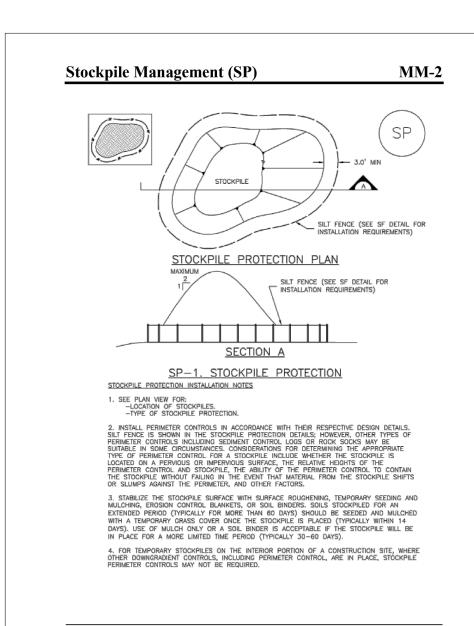


C	SEAL	CIMARRON HILLS SOUTHEAST FILING NO. 1
	PRELIMINARY	GRADING AND EROSION CONTROL PLANS EL PASO COUNTY, COLORADO
	THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND	GRADING & EROSION CONTROL DETAILS

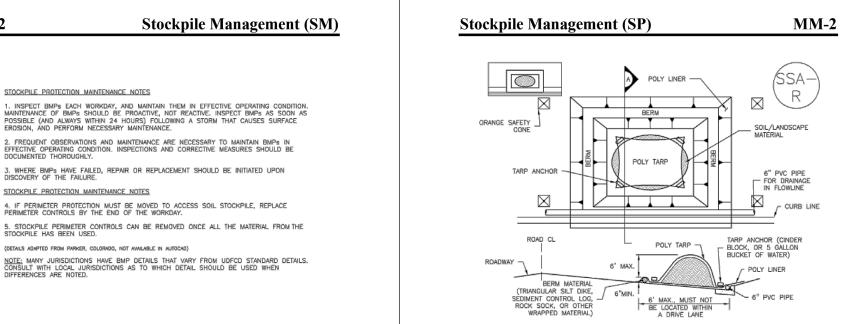
GRADING & EROSION CONTROL DETAILS	
(SHEET 1 OF 4)	

GOVERNING AGENCIES AND IS SUBJECT TO CHANGE	GRA	יווטא		_	EET 1 OF 4		TAILS
FOR AND ON BEHALF OF	DESIGNED BY:	MDF	SCALE		DATE ISSUED:	AUGUST 2024	DRAWING No.
MATRIX DESIGN GROUP, INC. PROJECT No. 24.1382.003	DRAWN BY: CHECKED BY:	KGI JAO		N/A N/A	SHEET	10 OF 13	ECD01





Urban Storm Drainage Criteria Manual Volume 3



SP—2. MATERIALS STAGING IN ROADWAY

MATERIALS STAGING IN ROADWAYS INSTALLATION NOTES

1. SEE PLAN VIEW FOR

—LOCATION OF MATERIAL STAGING AREA(S).
—CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. FEATURE MUST BE INSTALLED PRIOR TO EXCAVATION, EARTHWORK OR DELIVERY OF MATERIALS.

3. MATERIALS MUST BE STATIONED ON THE POLY LINER, ANY INCIDENTAL MATERIALS DEPOSITED ON PAVED SECTION OR ALONG CURB LINE MUST BE CLEANED UP PROMPTLY.

4. POLY LINER AND TARP COVER SHOULD BE OF SIGNIFICANT THICKNESS TO PREVENT DAMAGE OR LOSS OF INTEGRITY.

5. SAND BAGS MAY BE SUBSTITUTED TO ANCHOR THE COVER TARP OR PROVIDE BERMING UNDER THE BASE LINER.

6. FEATURE IS NOT INTENDED FOR USE WITH WET MATERIAL THAT WILL BE DRAINING AND/OR SPREADING OUT ON THE POLY LINER OR FOR DEMOLITION MATERIALS.

7. THIS FEATURE CAN BE USED FOR:
—UTILITY REPAIRS.
—WHEN OTHER STAGING LOCATIONS AND OPTIONS ARE LIMITED.
—OTHER LIMITED APPLICATION AND SHORT DURATION STAGING.

MM-2 Stockpile Management (SM)

MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES

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

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

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

4. INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.

5. CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS.

5. CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.

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

(DETAILS ADAPTED FROM AURORA, COLORADO)

Stabilized Staging Area (SSA)

SM-6

SF/CF SF/CF

SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703. AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
 ADDITIONAL PERIMETER BMPS MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.
 STABILIZED STAGING AREA MAINTENANCE NOTES
 INSPECT BMPS EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPS SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPS AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

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

3. WHERE BMPs HAVE FAILLED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILLIRE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

Urban Storm Drainage Criteria Manual Volume 3

Inlet Protection (IP)

SM-6 Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

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

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

Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

November 20 ne 3

SC-6 Inlet Protection (IP)

Urban Storm Drainage Criteria Manual Volume 3

- 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

Propriety 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

MM-2

When applying inlet protection in sump conditions, it is important that the inlet continue to function during larger runoff events. For curb inlets, 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 not 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 paved surfaces), sediment control logs/straw wattles 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 paved sloping streets, 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 example, silt fence that has not been properly trenched 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
- larger storm events that wash away or reposition the inlet protection. Traffic or equipment may also crush or displace the BMP.
 Monitor sediment accumulation upgradient of the inlet protection.

Urban Drainage and Flood Control District August 2013

Urban Storm Drainage Criteria Manual Volume 3

Inlet Protection (IP)

 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.

SC-6

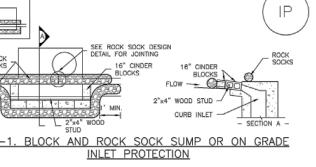
Urban Storm Drainage Criteria Manual Volume 3

Propriety 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 devices from breaking and spilling 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.

Urban Drainage and Flood Control District

Urban Storm Drainage Criteria Manual Volume 3

Urban Storm Drainage Criteria Manual Volume 3

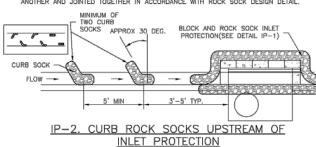


BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES.

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. CONCRETE "CINDER" 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.

3. GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINTED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.



- CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES

 1. SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.
- SEE ROCK SUCK DESIGN DETAIL INSTALLATION REQUIREMENTS.

 PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.

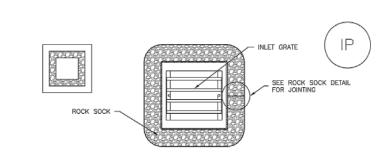
4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

- IN THE OPPOSITE DIRECTION OF FLOW.

 3. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.
- Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

Inlet Protection (IP)

August 2013

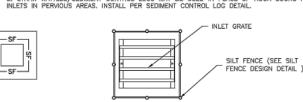


IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. STRAW WATTLES/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

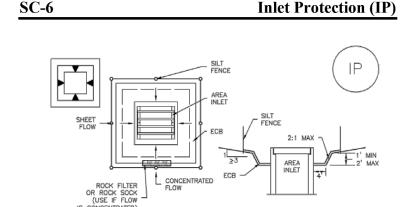
SILT FENCE INLET PROTECTION INSTALLATION NOTES

1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.

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

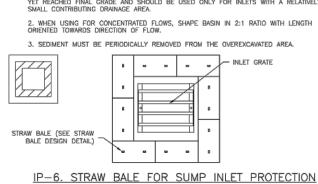
August 2013 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3



IP-5. OVEREXCAVATION INLET PROTECTION

OVEREXCAVATION INLET PROTECTION INSTALLATION NOTES

1. THIS FORM OF INLET PROTECTION IS PRIMARILY APPLICABLE FOR SITES THAT HAVE NOT YET REACHED FINAL GRADE AND SHOULD BE USED ONLY FOR INLETS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA.



STRAW BALE BARRIER INLET PROTECTION INSTALLATION NOTES

SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

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

Urban Drainage and Flood Control District Aug Urban Storm Drainage Criteria Manual Volume 3

REFERENCE					SHEET KEY — //
DRAWINGS	##	##	##	##	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
-MDG22x34	##	##	##	##	
WID CLENO!	##	##	##	##	Y / \
	##	##	##	##	/ + - - - - - - - - - -
	##	##	##	##	
	No.	DATE	DESCRIPTION	BY	J • [
			REVISIONS		
	COM	PUTER FI	LE MANAGEMENT		
	FILE NA	AME: S:\24.138	32.003 Peterson Road and Meadowbrook Parkway Overall Development\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\ECD01.dwg		
	CTB FIL	L <i>E:</i> Matrix.o	otb		
	PLOT D	DATE: August	23, 2024 8:38:46 AM		
	THIS DRA	WING IS CURRENT	AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.		

BENCHMARK:
NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935.
ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.

BASIS OF BEARING:

REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET,



|

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. 24.1382.003

DRAWN BY:

CHECKED BY:

GRADING AND EROSION CONTROL PLANS
EL PASO COUNTY, COLORADO

GRADING & EROSION CONTROL DETAILS

CIMARRON HILLS SOUTHEAST FILING NO. 1

11 OF 13

(SHEET 2 OF 4)

F DESIGNED BY: MDF SCALE DATE ISSUED: AUGUST 2024 DRAWING No.



Temporary and Permanent Seeding (TS/PS)

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses

Species ^a (Common name)	Growth Season ^b	Pounds of Pure Live Seed (PLS)/acre ^c	Planting Depth (inches)
1. Oats	Cool	35 - 50	1 - 2
2. Spring wheat	Cool	25 - 35	1 - 2
3. Spring barley	Cool	25 - 35	1 - 2
4. Annual ryegrass	Cool	10 - 15	1/2
5. Millet	Warm	3 - 15	1/2 - 3/4
6. Sudangrass	Warm	5–10	1/2 - 3/4
7. Sorghum	Warm	5-10	1/2 - 3/4
8. Winter wheat	Cool	20–35	1 - 2
9. Winter barley	Cool	20–35	1 - 2
10. Winter rye	Cool	20–35	1 - 2
11. Triticale	Cool	25–40	1 - 2

usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year. This assumes that the cover is not disturbed or mowed closer than 8 inches. Hydraulic seeding may be substituted for drilling only where slopes are

steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in

b See Table TS/PS-3 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months. Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

EC-2 Temporary and Permanent Seeding (TS/PS)

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses

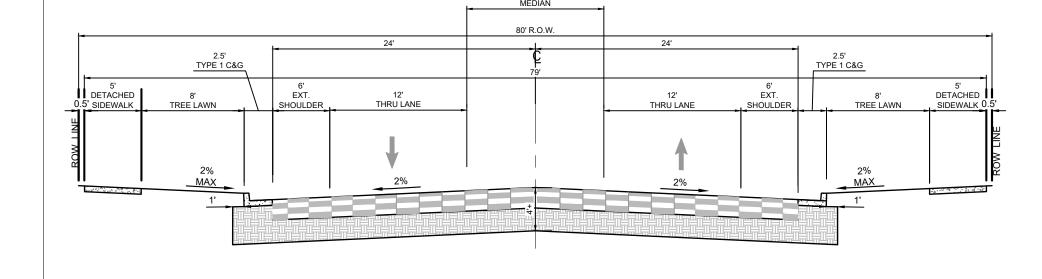
Common ^a Name	Botanical Name	Growth Season ^b	Growth Form	Seeds/ Pound	Pounds of PLS/acre			
Alakali Soil Seed Mix	'							
Alkali sacaton	Sporobolus airoides	Cool	Bunch	1,750,000	0.25			
Basin wildrye	Elymus cinereus	Cool	Bunch	165,000	2.5			
Sodar streambank wheatgrass	Agropyron riparium 'Sodar'	Cool	Sod	170,000	2.5			
Jose tall wheatgrass	Agropyron elongatum 'Jose'	Cool	Bunch	79,000	7.0			
Arriba western wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod 110,000		5.5			
Total					17.75			
Fertile Loamy Soil Seed Mix								
Ephriam crested wheatgrass	Agropyron cristatum 'Ephriam'	Cool Sod		175,000	2.0			
Dural hard fescue	Festuca ovina 'duriuscula'	Cool	Bunch	565,000	1.0			
Lincoln smooth brome	Cool	Cool Sod 130,000		3.0				
Sodar streambank wheatgrass	Agropyron riparium 'Sodar'	Cool	Sod	170,000	2.5			
Arriba western wheatgrass Agropyron smithii 'Arriba'		Cool	Sod	110,000	7.0			
Total					15.5			
High Water Table Soil Seed Mix								
Meadow foxtail	Alopecurus pratensis	Cool	Sod	900,000	0.5			
Redtop Agrostis alba		Warm	Open sod	5,000,000	0.25			
Reed canarygrass	Phalaris arundinacea	Cool	Sod	68,000	0.5			
Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0			
Pathfinder switchgrass Panicum virgatum 'Pathfinder'		Warm	Sod	389,000	1.0			
Alkar tall wheatgrass Agropyron elongatum 'Alkar'		Cool	Bunch	79,000	5.5			
Total					10.75			
Transition Turf Seed Mix ^c								
Ruebens Canadian bluegrass	Poa compressa 'Ruebens'	Cool	Sod	2,500,000	0.5			
Dural hard fescue	Festuca ovina 'duriuscula'	Cool	Bunch	565,000	1.0			
Citation perennial ryegrass	Lolium perenne 'Citation'	Cool	Sod	247,000	3.0			
Lincoln smooth brome	Bromus inermis leyss 'Lincoln'	Cool	Sod	130,000	3.0			
Total					7.5			

Temporary and Permanent Seeding (TS/PS) EC-2

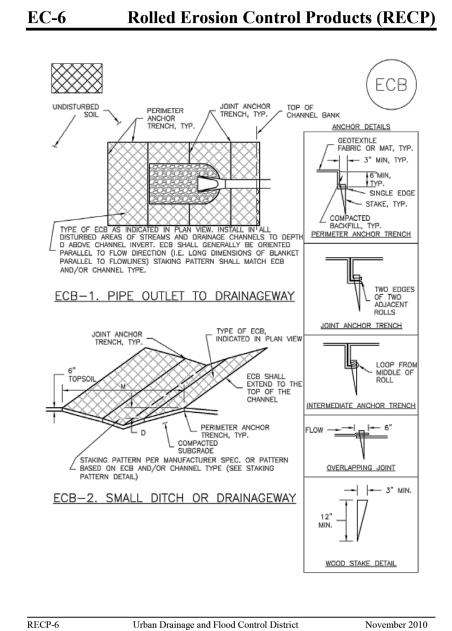
Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.)

Common Name	Botanical Name	Growth Season ^b	Growth Form	Seeds/ Pound	Pounds of PLS/acre	
Sandy Soil Seed Mix						
Blue grama	Bouteloua gracilis	Warm	Sod-forming bunchgrass	825,000	0.5	
Camper little bluestem	Schizachyrium scoparium 'Camper'	Warm	Bunch	240,000	1.0	
Prairie sandreed	Calamovilfa longifolia	Warm	Open sod	274,000		
Sand dropseed	Sporobolus cryptandrus	Cool	Bunch	5,298,000	0.25	
Vaughn sideoats grama	Warm	Sod 191,000		2.0		
Arriba western wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000	5.5	
Total					10.25	
Heavy Clay, Rocky Foothill Seed	Mix					
Ephriam crested wheatgrass ^d	Agropyron cristatum 'Ephriam'	Cool	Sod	175,000	1.5	
Oahe Intermediate wheatgrass Agropyron intermedium Oahe'		Cool	Sod	115,000	5.5	
aughn sideoats grama ^c Bouteloua curtipendula 'Vaughn'		Warm	Sod	191,000	2.0	
Lincoln smooth brome Bromus inermis leyss 'Lincoln'		Cool	Sod	130,000	3.0	
Arriba western wheatgrass	Agropyron smithii 'Arriba'	Cool	Sod	110,000	5.5	
Total					17.5	
	and rates are based on drill seedin should be increased by 50 percer					

- through hydraulic seeding. Hydraulic seeding much seeding much seeding is some using a finite first through hydraulic seeding. Hydraulic seeding much seeding much seeding is used, hydraulic seeding is used, hydraulic mulching should be done as a separate operation.
- b See Table TS/PS-3 for seeding dates.
- If site is to be irrigated, the transition turf seed rates should be doubled.
- Crested wheatgrass should not be used on slopes steeper than 6H to 1V. Can substitute 0.5 lbs PLS of blue grama for the 2.0 lbs PLS of Vaughn sideoats grama.



COLLECTOR WITH NO PARKING 35 MPH POSTED; 40 MPH DESIGN NOT TO SCALE MEADOWBROOK PKWY

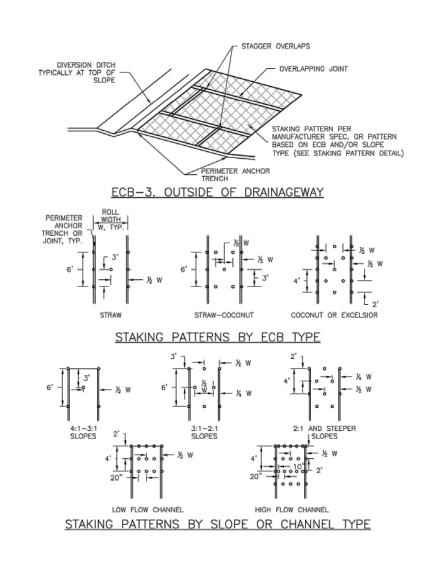


Urban Storm Drainage Criteria Manual Volume 3

Rolled Erosion Control Products (RECP)

Urban Drainage and Flood Control District

Urban Storm Drainage Criteria Manual Volume 3



Urban Drainage and Flood Control District

Urban Storm Drainage Criteria Manual Volume 3

Rolled Erosion Control Products (RECP)

Urban Drainage and Flood Control District

Urban Storm Drainage Criteria Manual Volume 3

EROSION CONTROL BLANKET INSTALLATION NOTES 1. SEE PLAN VIEW FOR:

-LOCATION OF ECS.

-TYPE OF ECS (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR).

-AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECS. 2. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPS, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS. 3. IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITTE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.

4. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.

5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT. 6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.

7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES. 8. MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1. 9, any areas of seeding and mulching disturbed in the process of installing ecbs shall be reseeded and mulched.

10. DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS						
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMEND NETTING**		
STRAW*	-	100%	-	DOUBLE/ NATURAL		
STRAW- COCONUT	30% MIN	70% MAX	-	DOUBLE/ NATURAL		
COCONUT	100%	-	-	DOUBLE/ NATURAL		
EXCELSIOR	-	-	100%	DOUBLE/ NATURAL		

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

Rolled Erosion Control Products (RECP)

EROSION CONTROL BLANKET MAINTENANCE NOTES

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

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

3. WHERE \mbox{BMPs} HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

 ${\tt 4.~ECBs}$ SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.

5. ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED. (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER COLORADO, NOT AVAILABLE IN AUTOCAD)

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

REFERENCE					SHEET KEY — //
DRAWINGS	##	##	##	##	4/7/N
X-MDG22x34	##	##	##	##	
7 <u>2</u>	##	##	##	##	
	##	##	##	##	/ + - - - - - - - - - -
	##	##	##	##	
	No.	DATE	DESCRIPTION	BY	
			REVISIONS		
	COM	PUTER FI			
	CTB FII	AME: S:\24.138 LE: Matrix.c DATE: August			
	THIS DRA	WING IS CURRENT	AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.		

NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.

BASIS OF BEARING:

REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET.

PREPARED BY: **Excellence by Design**

RECP-9

THIS DRAWING HAS NOT

BEEN APPROVED BY

GOVERNING AGENCIES AND

PROJECT No. 24.1382.003

CIMARRON HILLS SOUTHEAST FILING NO. 1

GRADING AND EROSION CONTROL PLANS PRELIMINARY EL PASO COUNTY, COLORADO

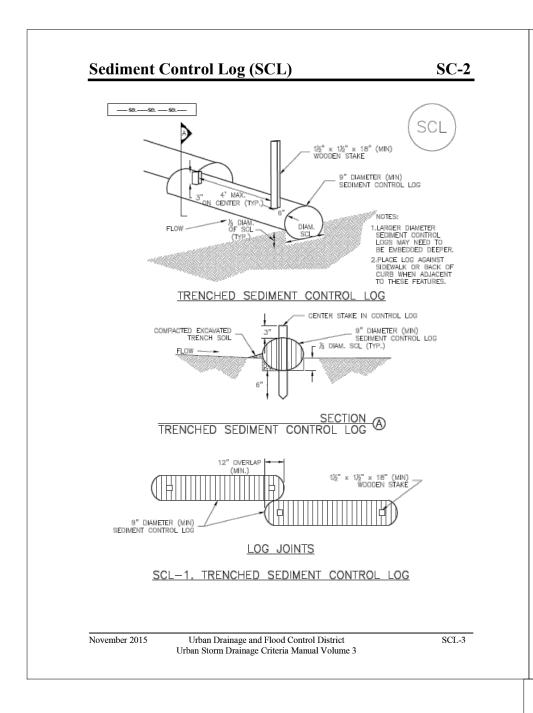
CHECKED BY:

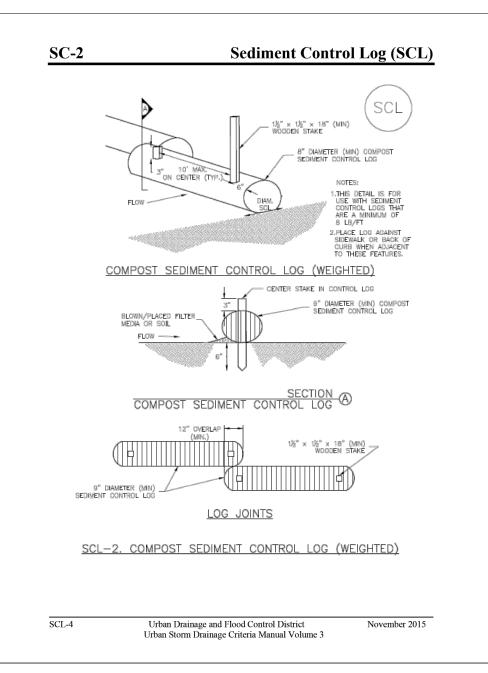
GRADING & EROSION CONTROL DETAILS (SHEET 3 OF 4)

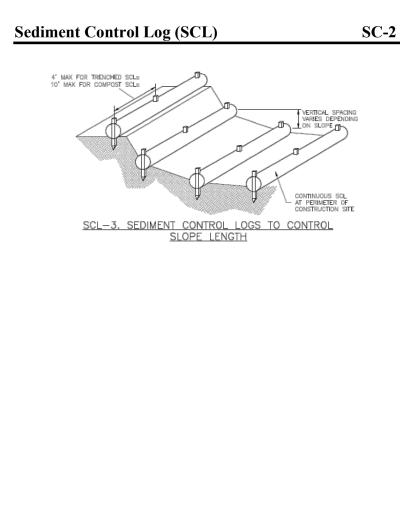
ECD03

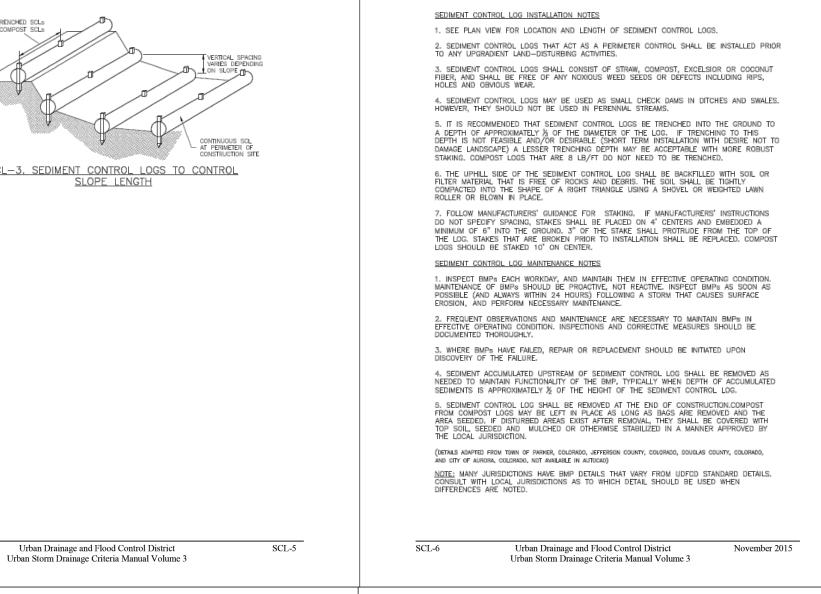
12 OF 13

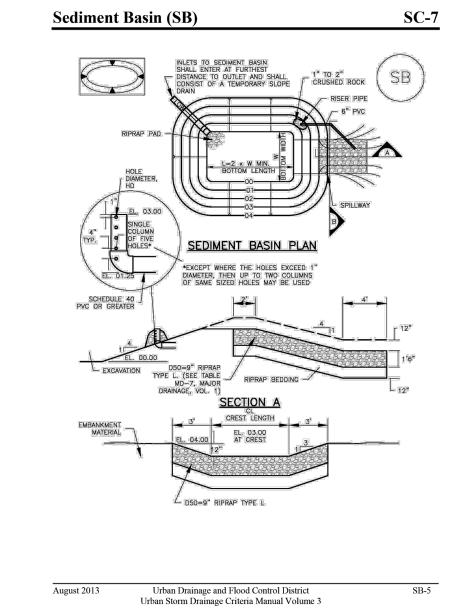
IS SUBJECT TO CHANGE FOR AND ON BEHALF OF SCALE DESIGNED BY: MDF DATE ISSUED: AUGUST 2024 DRAWING No. MATRIX DESIGN GROUP, INC. DRAWN BY:

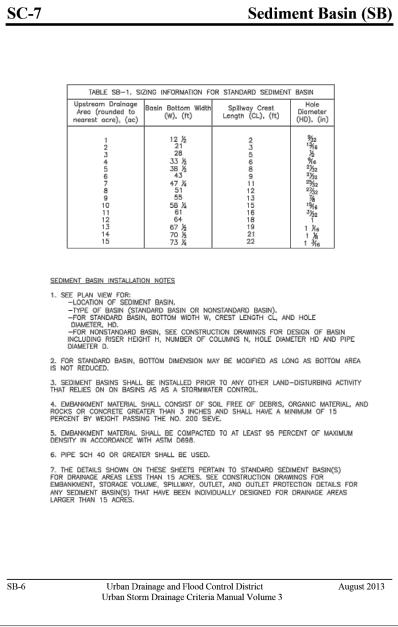


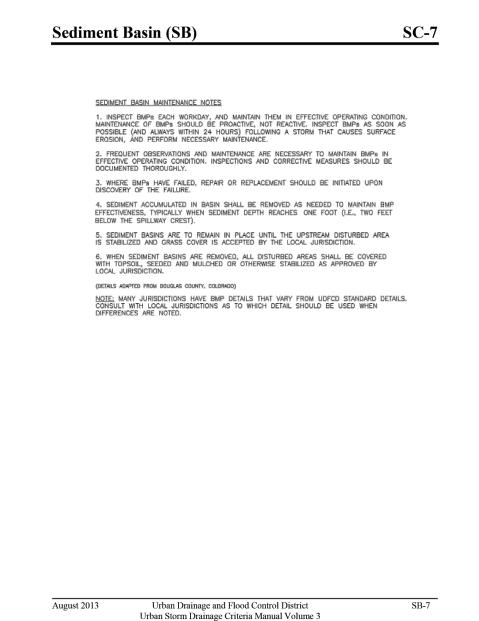












Sediment Control Log (SCL)

REFERENCE					SHEET	
DRAWINGS	##	##	##	##	1/7/ N	
X-MDG22x34	##	##	##	##	/7/	
7, m2 622.xx	##	##	##	##	<i>></i> //	
	##	##	##	##	_	
	##	##	##	##	J 1	
	No.	DATE	DESCRIPTION	BY	_j	
			REVISIONS		_ /	
	COMPUTER FILE MANAGEMENT					
	CTB F	ILE: Matrix.c DATE: August :	2.003 Peterson Road and Meadowbrook Parkway Overall Development\500 CADD\504 Plan Sets\Construction Plans\GEC Plan\ECD01.dwg tb 23, 2024 8:38:55 AM AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

ET KEY

NGS MONUMENT R76, BEING MONUMENTED BY A STANDARD U.S. COAST AND GEODETIC SURVEY BENCHMARK DISK SET IN THE TOP OF CONCRETE POST, STAMPED R 76 1935. ELEVATION WAS ESTABLISHED BY G.P.S OBSERVATIONS AND IS REFERENCED TO NAVD88. ELEVATION = 6,289.86 FEET.

REFERENCED TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 14 SOUTH, RANGE 65 WEST, BEING MONUMENTED AT THE SOUTHWEST CORNER OF SECTION 8 BY A 3-1/4" ALUMINUM CAP IN RANGEBOX "LS 22573", AND AT THE WEST QUARTER CORNER OF SECTION 8 BY A 3-1/4" BRASS CAP STAMPED "BLM US DEPT INTERIOR", ASSUMED TO BEAR NORTH 00°23'14" WEST, A DISTANCE OF 2,641.77 FEET.



SLAL	CIMARRON HILLS SOUTHEAST FILING NO. 1
PRELIMINARY	GRADING AND EROSION CONTROL PLANS EL PASO COUNTY, COLORADO
THIS DRAWING HAS NOT	

DRAWN BY:

CHECKED BY:

MATRIX DESIGN GROUP, INC.

PROJECT No. 24.1382.003

GRADING & EROSION CONTROL DETAILS BEEN APPROVED BY GOVERNING AGENCIES AND

IS SUBJECT TO CHANGE	(SHEET 3 OF 4)							
			•		,			
FOR AND ON BEHALF OF	DESIGNED BY:	MDF	SCALE	DATE ISSUED:	AUGUST 2024	DRAWING No.		

13 OF 13

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

v1_Grading & Erosion Control Plan.pdf Markup Summary

Callout (1)



Subject: Callout
Page Label: [1] 1 TS01
Author: CDurham

Date: 12/30/2024 6:06:30 PM

Status: Color: Layer: Space: Josh Palmer

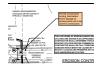
Contractor (13)



Subject: Contractor Page Label: [1] 1 TS01 Author: Christina Prete Date: 1/2/2025 4:14:47 PM

Status:
Color:
Layer:
Space:

SF2420



Subject: Contractor Page Label: [4] 4 GEC01 Author: Christina Prete Date: 1/2/2025 4:36:12 PM

Status:
Color: Layer:
Space:

Provide construction fencing, barricades, and/or signage at access points not to be used for

construction.



Subject: Contractor Page Label: [4] 4 GEC01 Author: Christina Prete Date: 1/2/2025 4:43:50 PM

Status: Color: ■ Layer: Space: Provide details of temporary sediment basin including riser pipe diameter and perforation sizing, number of rows of holes, required volume, location of outlet pipe and spillway, and tributary area to the sediment basin. And provide contours for sediment basin.



Subject: Contractor Page Label: [5] 5 GEC02 Author: Christina Prete Date: 1/2/2025 4:43:43 PM

Status: Color: ■ Layer: Space: Provide details of temporary sediment basin including riser pipe diameter and perforation sizing, number of rows of holes, required volume, location of outlet pipe and spillway, and tributary area to the sediment basin. And provide contours for sediment basin



Subject: Contractor Page Label: [4] 4 GEC01 Author: Christina Prete Date: 1/2/2025 4:44:09 PM

Status: Color: ■ Layer: Space: diversion ditches



Subject: Contractor Page Label: [4] 4 GEC01 Author: Christina Prete Date: 1/2/2025 4:53:25 PM

Status: Color: ■ Layer: Space: add a note about existing vegetation

To comply with the SWMP Checklist Item 17f, please add a note stating no batch plants will be

utilized onsite.



Subject: Contractor Page Label: [6] 6 GEC03 Author: Christina Prete Date: 1/2/2025 4:56:51 PM

Status: Color: ■ Layer: Space: Show proposed diversion ditches/swales to convey runoff to TSB.



Subject: Contractor Page Label: [7] 7 GEC04 Author: Christina Prete Date: 1/2/2025 4:57:05 PM

Status: Color: Layer: Space: Show proposed diversion ditches/swales to convey

runoff to TSB.



Subject: Contractor Page Label: [9] 9 GEC06 Author: Christina Prete Date: 1/2/2025 4:57:53 PM

Status: Color: ■ Layer: Space: label as Pond 1



Subject: Contractor

Page Label: [10] 10 ECD01 Author: Christina Prete Date: 1/2/2025 4:58:38 PM

Status: Color: ■ Layer: Space: Replace with EPC approved VTC detail (VT-1 and VT-2 in DCMv2, Chap 3.3) or revise to be 75ft min

length.



Subject: Contractor Page Label: [6] 6 GEC03 Author: Christina Prete Date: 1/2/2025 5:00:21 PM

Status: Color: ■ Layer: Space: include cross section detail

Subject: Contractor
Page Label: [9] 9 GEC06
Author: Christina Prete
Date: 1/2/2025 5:11:04 PM
Status:
Color: ■

Layer: Space:

make black or color so that it is legible in field

ERO:

Subject: Contractor Page Label: [9] 9 GEC06 Author: Christina Prete Date: 1/2/2025 5:11:07 PM

Status: Color: ■ Layer: Space: show all areas of seeding and mulching. make black or color so that it is legible in field

Stormwater Comments Color (1)

Subject: Stormwater Comments Color
Page Label: [1] 1 TS01

Page Label: [1] 1 TS01 Author: Christina Prete Date: 1/2/2025 5:08:32 PM

Status: Color: Layer: Space:

Text Box (1)



EPC STORMWATER REVIEW COMMENTS N ORANGE BOXES WITH BLACK TEXT

Subject: Text Box Page Label: [5] 5 GEC02 Author: CDurham

Date: 1/6/2025 2:05:24 PM

Status: Color: Layer: Space: VTC