PROJECT CONTACTS

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GALLOWAY

RESPONSE

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EPC STORMWATER REVIEW COMMENTS IN ORANGE BOXES WITH BLACK TEXT

PROPERTY OWNER MIKE D TEXER 11750 OWL PLACE PEYTON, CO 80831 TELE: (719) 641-9261 CONTACT: MIKE D TEXER EMAIL: MIKE.TEXER@GMAIL.COM APPLICANT GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900-7220 CONTACT: CALEB JOHNSON EMAIL: CALEBJOHNSON@GALLOWAYUS.COM

CIVIL ENGINEER GALLOWAY & CO., INC.

1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900-7220 CONTACT: BRADY SHYROCK, P.E. EMAIL: BRADYSHYROCK@GALLOWAYUS.COM

LANDSCAPE ARCHITECT

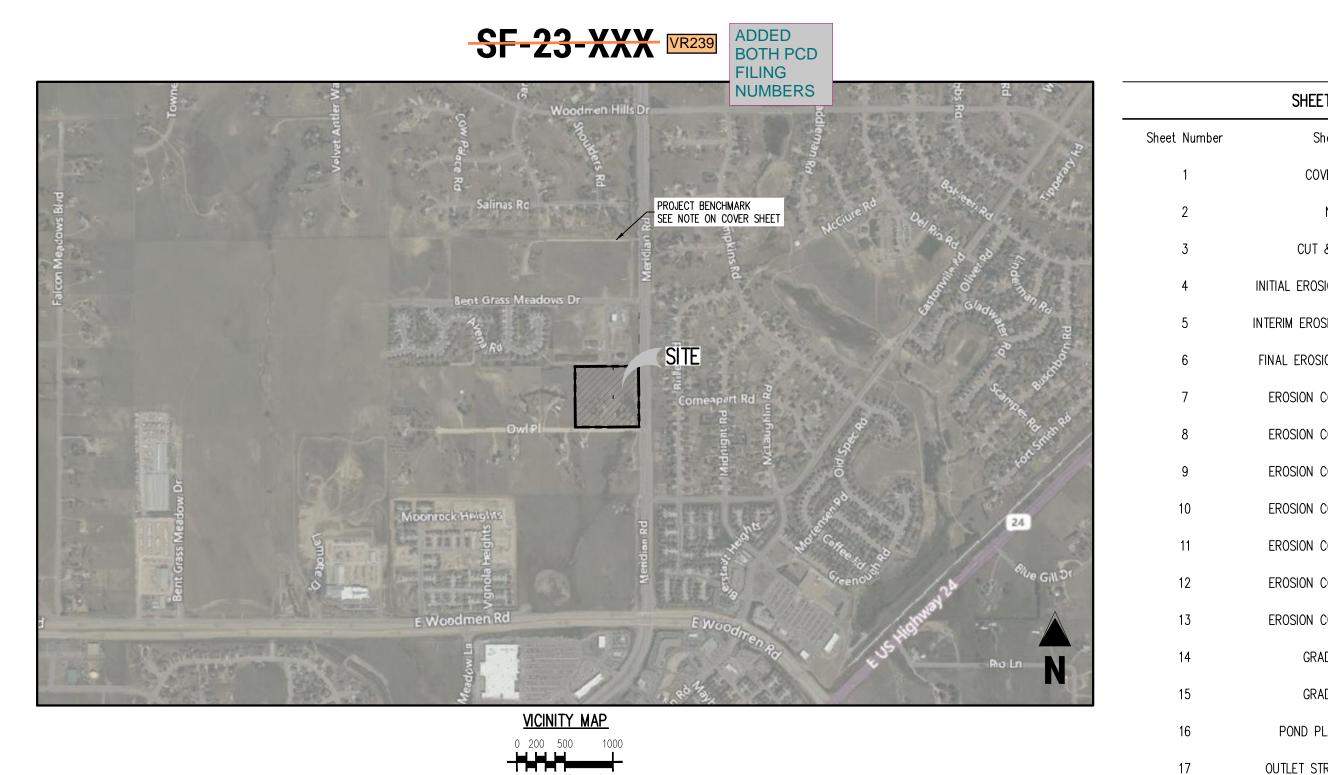
GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900-7220 CONTACT: ÉRYNHILDR HALSTEN EMAIL: BRYNHILDERHALSTEN@GALLOWAYUS.COM SURVEYOR GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900-7220 CONTACT: BILL BROOKS EMAIL: BILLBROOKS@GALLOWAYUS.COM

CITY & UTILITY CONTACTS

WATER

WOODMEN HILLS METRO DISTRICT 8046 EASTONVILLE ROAD FALCON, CO 80831 TELE: (719) 495-2500 CONTACT: CODY RITTER EMAIL: CODY@WHMD.ORG WASTEWATER WOODMEN HILLS METRO DISTRICT 8046 EASTONVILLE ROAD FALCON, CO 80831 TELE: (719) 495-2500 CONTACT: CODY RITTER EMAIL: CODY@WHMD.ORG ELECTRIC MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN RD., FALCON, CO 80831 TELE: (800) 388-9881 CONTACT: GINA PERRY EMAIL: GINA.POMVEA.COOP NATURAL GAS COLORADO SPRINGS UTILITIES 7710 DURANT DRIVE, P.O. BOX 1103, MAIL CODE 2150 COLORADO SPRINGS, CO 80947-2150 (719) 668–5573 CONTACT: AARON CASSIO EMAIL: ACASSIO@CSU.ORG FIRE

FALCON FIRE PROTECTION DISTRICT 7030 OLD MERIDIAN RD., FALCON, CO 80831 TELE: (719) 495-4050 CONTACT: TRENT HARWIG EMAIL: THARWIG@FALCONFIREPD.ORG

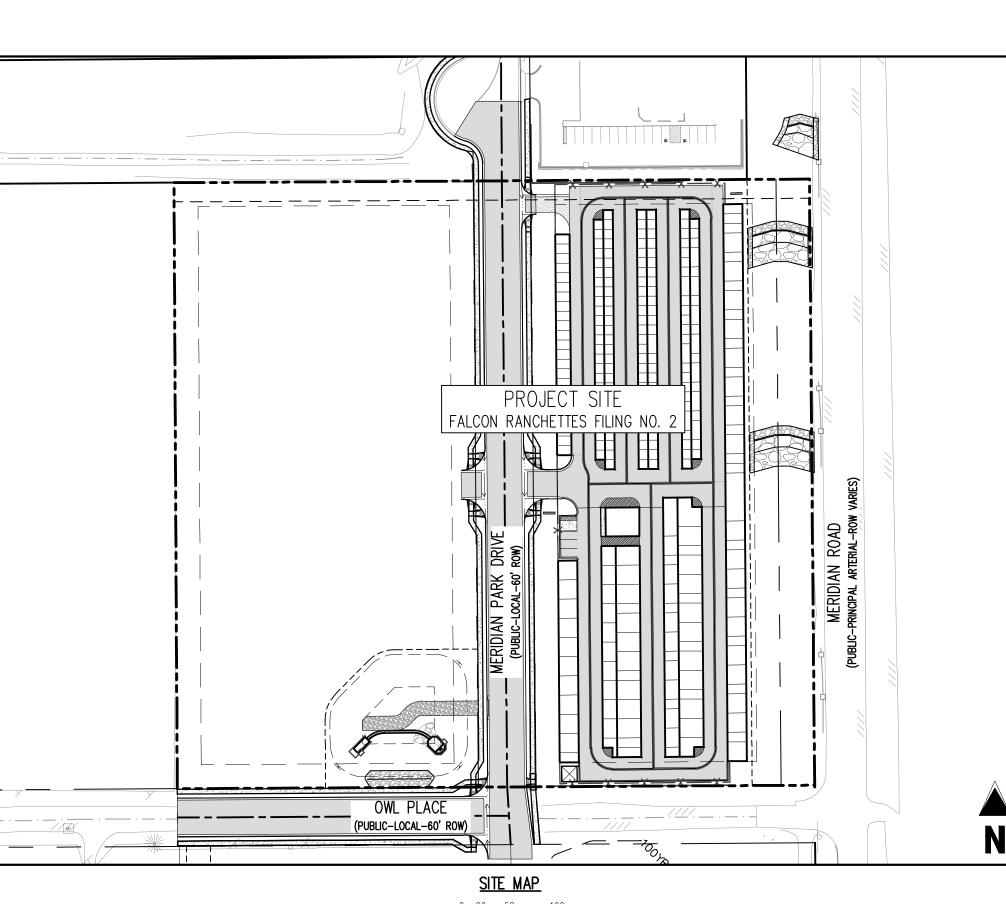


LIST OF ABBREVIATIONS SHT - SHEET Δ – Deflection angle LENGTH r – Radius CB – CHORD BEARING C – CHORD LENGTH N - NORTH/NORTHING W - WEST E – EAST/EASTING s — south DET – DETAIL ex – existing W/— WITH PC - POINT OF CURVATURE/PORTLAND CEMENT WWF - WELDED WIRE FABRIC VERT – VERTICAL OC - ON CENTER FDC – FIRE DEPARTMENT CONNECTION CT – COURT DR – DRIVE TYP – TYPICAL REC - RECEPTION NUMBER ø, DIA – DIAMETER PT - POINT OF TANGENCY MIN — MINIMUM MAX – MAXIMUM hdpe – High Density Polyethylene

MERIDIAN STORAGE, LLC MERIDIAN STORAGE

FALCON RANCHETTES FILING NO. 2, NORTH HALF OF THE SOUTHEAST QUARTER OF SECTION 1 TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE 6TH P.M., COUNTY OF EL PASO STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE

GRADING & EROSION CONTROL PLANS



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WEST, OF THE	LAND IN THE SOUTHEAST QUARTER OF SECTION 1, TOWNSHIP 13 SOUTH, RANGE 65 E SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE Y DESCRIBED AS FOLLOWS:
	FALCON RANCHETTES, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 5, OF THE RECORDS OF EL PASO COUNTY, COLORADO.
Containing 9	0.604 ACRES, MORE OR LESS.
BENCHMA	RK
Monumented Stamped "Pl:	IST CORNER OF LOT 1 WODDMEN HILLS FILING NO. 4, BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP S 24964" ATION = 6947.67
	BEARING
ALL BEARINGS CENTRAL ZON LOTS 2, 3, & BY FOUND MC STAMPED "LS	S ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, IE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89'40'45"W. DEFINED DNUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A $1-1/4$ " YELLOW PLASTIC CAP 2372", BEING THE SOUTHEAST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A DW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.
	IRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR E LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT
BEGINNING N	IRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.
CERTIFICATE	R RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER S OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY IR ANY OTHER GOVERNING AGENCY.
DIMENSIONIN	TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL IG PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, EARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE ZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION

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

EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2,

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

 \gg I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND

SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND

7erosion control plans and specifications, and said plans and specifications are in

CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS.

SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY

AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE

AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS,

ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND

AND/ OR ACCURACY OF THIS DOCUMENT. FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE

LEGAL DESCRIPTION

EL PASO COUNTY

JOSHUA PALMER, P.E.

MIKE D. TEXER

SPECIFICATIONS.

OWNER'S STATEMENT

ENGINEER'S STATEMENT

AND ENGINEERING CRITERIA MANUAL AS AMENDED.

AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

COUNTY ENGINEER / ECM ADMINISTRATOR

CAUTION - NOTICE TO CONTRACTOR

19

1. ALL UTILITY LOCATIONS SHOWN ARE BY THE APPROPRIATE UTILITY COM

m	ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIESTO THE ENGINEER PRIOR TO CONSTRUCTION.	Know what's below. Call before you dig.
	WHERE A PROPOSED LITULITY CROSSES AN EXISTING LITULITY IT IS	THE CONTRACTOR'S

2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

REVISED TO MATCH

GEC Checklist Item hh use Owner's Statement for standalone GEC.

REVISED TO MATCH

GEC Checklist Item ff use the Engineer's Statement for standalone GEC.

ADDED TO	Add PCD File N
BOTTOM	Add PCD File N
RIGHT OF	
TITLE	

BLOCK

o. VR239

BRADY A. SHYROCK, COLORADO P.E. NO. 0038164

DATE

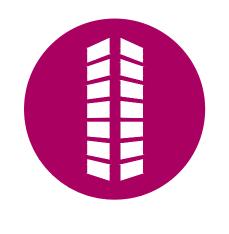
DATE

DATE

1155 Kelly Johnson Blvd., Suite 305 Colorado Springs, CO 80920 719 900 7220 GallowayUS.com

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GRADING & EROSION CONTROL PLANS MERIDIAN STORAGE	MERIDIAN STORAGE, LLC SF-23-XXX 20 560	STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE	EL PASO COUNTY, FALCON, CO 80931
# Date	Issue / Description		Init.
- - -			
- - -			·
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-			
Project No: Drawn By:		M	RS01 JDM
Checked By:		C	CMWJ
Date:			GEC

COVER SHEET



STANDARD NOTES FOR GEC PLANS

- 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 OFFSITE 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 TO 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
- 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
- 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 PLAN 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 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 FARTH 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 WASHOUT 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, UNCONTAMINATED GROUNDWATER 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, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEM 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 UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING 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 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 MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- 25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 26. PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- 27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY CTL THOMPSON INCORPORATED, PROJECT NO. CS19345-115-R2, DATED JANUARY 6, 2022, LAST REVISED MAY 9, 2022 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- 29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB (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 WOCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT

STANDARD NOTES FOR CONSTRUCTION PLANS

- COLORADO (UNCC).
- A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
- AND 2 C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR
- ROAD AND BRIDGE CONSTRUCTION D. CDOT M & S STANDARDS
- DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS. BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- 6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PFRMITS.
- CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- GUTTER AND PAVEMENT.
- ACCESS POINTS.
- 12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- 13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED. FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

EROSION CONTROL NOTES

- 1. SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (21) CALENDAR DAY AFTER FINAL GRADING. OR FINAL EARTH DISTURBANCE HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.
- CONSTRUCTION FENCE AND SILT FENCE OFFSET FOR CLARITY. CONTRACTOR TO ENSURE BMPS ARE PLACED DOWNSTREAM OF DISTURBED AREAS TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- 3. OWL PLACE & MERIDIAN PARK DRIVE SHALL BE STREET SWEPT AND INSPECTED ON A REGULAR BASIS DURING CONSTRUCTION.
- 4. NO NOTABLE EXISTING VEGETATION EXISTS ON THE SITE, APART FROM NATIVE GRASSES AND WEEDS. THE EXISTING SOIL TYPES WITHIN THE PROPERTY CONSISTS OF COLUMBINE GRAVELLY SANDY LOAM. ALL SOILS ARE DEFINED AS HAVING A HYDROLOGIC SOIL GROUP OF A, AS DETERMINED BY THE NRCS WEB SOIL SURVEY FOR EL PASO COUNTY AREA.

anticipate utilizing onsite batch plants.

ADDED NOTE

ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF

CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT. AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:

B. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1

4. 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

WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE

10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND

11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION

SWMP Checklist Item 17f. Note that this project does not

GENERAL CONSTRUCTION NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPLACED AT THE CONTRACTORS EXPENSE AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
- ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- ALL BACKFILL, SUB-BASE AND / OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEERS RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION.
- 5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE INDICATED.
- 6. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K - 1.2C.
- ALL INTERSECTION ACCESSES TO BE CONSTRUCTED WITH A 25 FOOT SIGHT VISIBILITY TRIANGLES AND THERE SHALL BE NO OBSTRUCTIONS GREATER THAN 18" IN THIS AREA.
- 8. ALL CULVERT AND STORM PIPES SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE (HDPE), OR REINFORCED CONCRETE PIPE (RCP), ALL CULVERTS SHALL BE PLACED COMPLETE WITH FLARED END SECTIONS. ADEQUACY OF MATERIAL THICKNESS FOR ANY CSP INSTALLED SHALL BE VERIFIED BY OWNERS GEOTECHNICAL ENGINEER TO SUPPORT MINIMUM 50 YEAR DESIGN LIFE. CULVERTS MUST CONFORM TO EPC ECM SECTION 3.32 - CULVERTS.
- ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED FOR ROADS SHALL BE PER 9. DESIGN REPORT BY OWNERS GEOTECHNICAL ENGINEER. OWNERS GEOTECHNICAL ENGINEER TO BE ON SITE AT TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION PRIOR TO CONSTRUCTION.
- 10. TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRAFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIP-RAP WITH MIRAFI FW 700 OR EQUAL IS SPECIFIED.
- 11. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS AND WITH WOODMAN HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
- 12. ALL POTABLE WATER MAINS SHALL BE AWWA C900-SDR18 PVC WITH PUSH-ON SINGLE GASKET TYPE JOINTS AND SHALL MEET THE REQUIREMENTS OF ANSI / NSF 61.
- 13. ALL WATER MAIN FITTINGS SHALL BE MADE FROM GRAY-IRON OR DUCTILE IRON AND FURNISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 250 PSI AND SHALL MEET THE REQUIREMENTS OF ANSI / NSF 61.
- 14. ALL WATER LINE BENDS, TEES, BLOW-OFFS AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST BY USING CONCRETE THRUST BLOCKS AND / OR RODDING AND RESTRAINED PIPE PER THE WOODMEN HILLS METRO DISTRICT CONSULTING ENGINEER APPROVAL.
- 15. MAXIMUM DEFLECTION OF 8" OR 12" PVC WATER MAIN JOINTS IS 4 DEGREES. CORRESPONDING MINIMUM CURVE RADIUS IS 286'. ADDITIONAL 11.25' OR 22.5' BENDS MAY BE REQUIRED FOR PROPER ALIGNMENT.
- 16. CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED AS-BUILTS OF ALL WATER MAIN, STORM SEWER AND SANITARY SEWER MAIN INSTALLATIONS, INCLUDING ACCURATE DISTANCES OF MAIN LINES, VALVES, FITTINGS, MANHOLES AND LOCATIONS OF WATER AND SEWER SERVICES.
- 17. SANITARY SEWER PIPE AND FITTINGS: PVC 4" 8" ASTM D3034, TYPE PSM, SDR 35: PUSH-ON JOINTS AND MOLDED RUBBER GASKETS MAXIMUM HORIZONTAL DEFLECTIONS, AFTER INSTALLATION AND BACK FILLING SHALL NOT EXCEED 3% OF THE PIPE DIAMETER. (MINIMUM CURVE RADIUS IS 100' FOR 8" PVC SANITARY SEWER MAIN)

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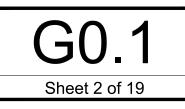
COPYRIGHT

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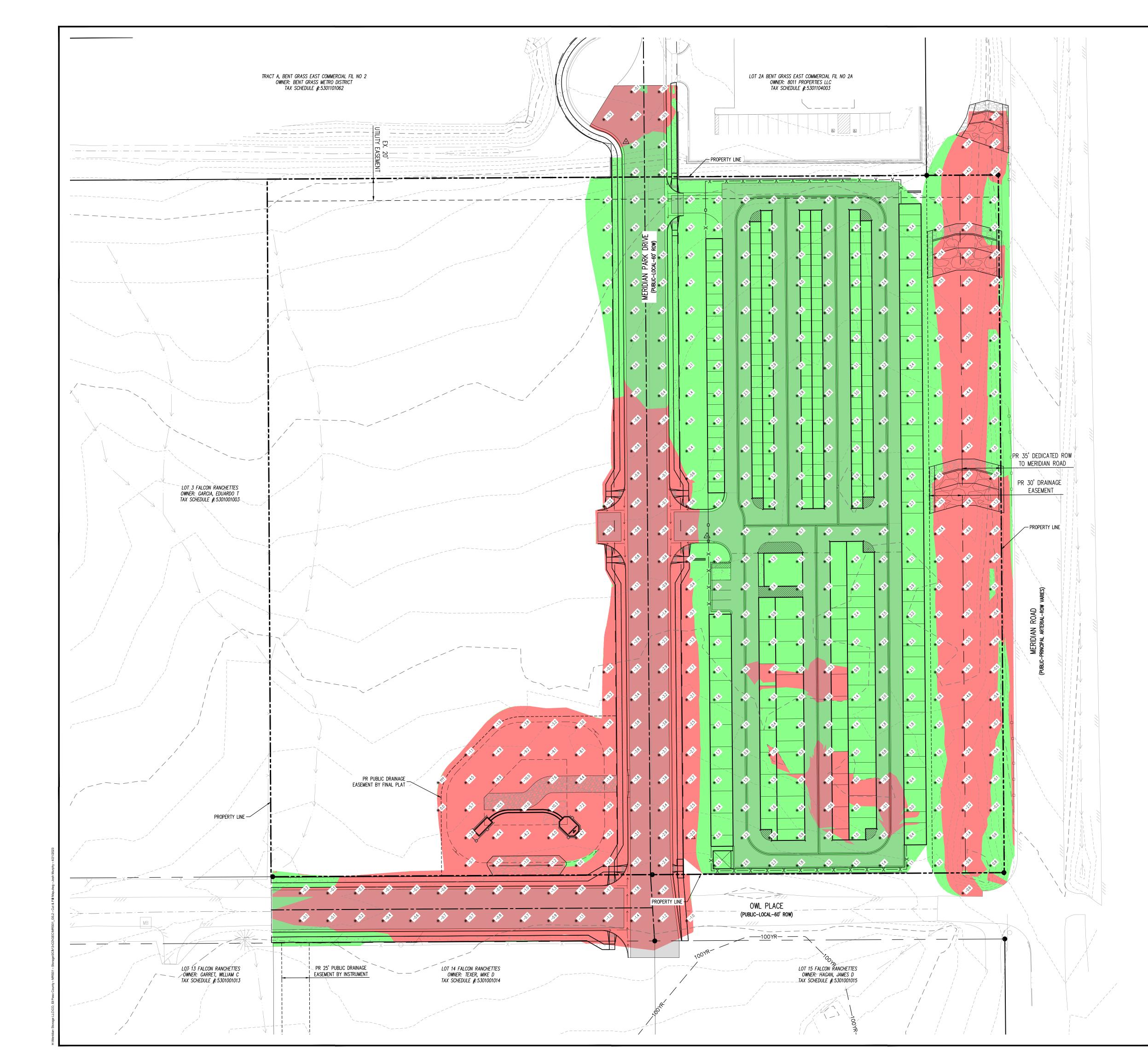


GRADING & EROSION CONTROL PLANS MERIDIAN STORAGE	MERIDIAN STORAGE, LLC SF-23-XXX	STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE EL PASO COUNTY, FALCON, CO 80931
# Date 	Issue / Description	Init.
- - - -		
Project No:		MRS01
Drawn By:		JDM

Date:	
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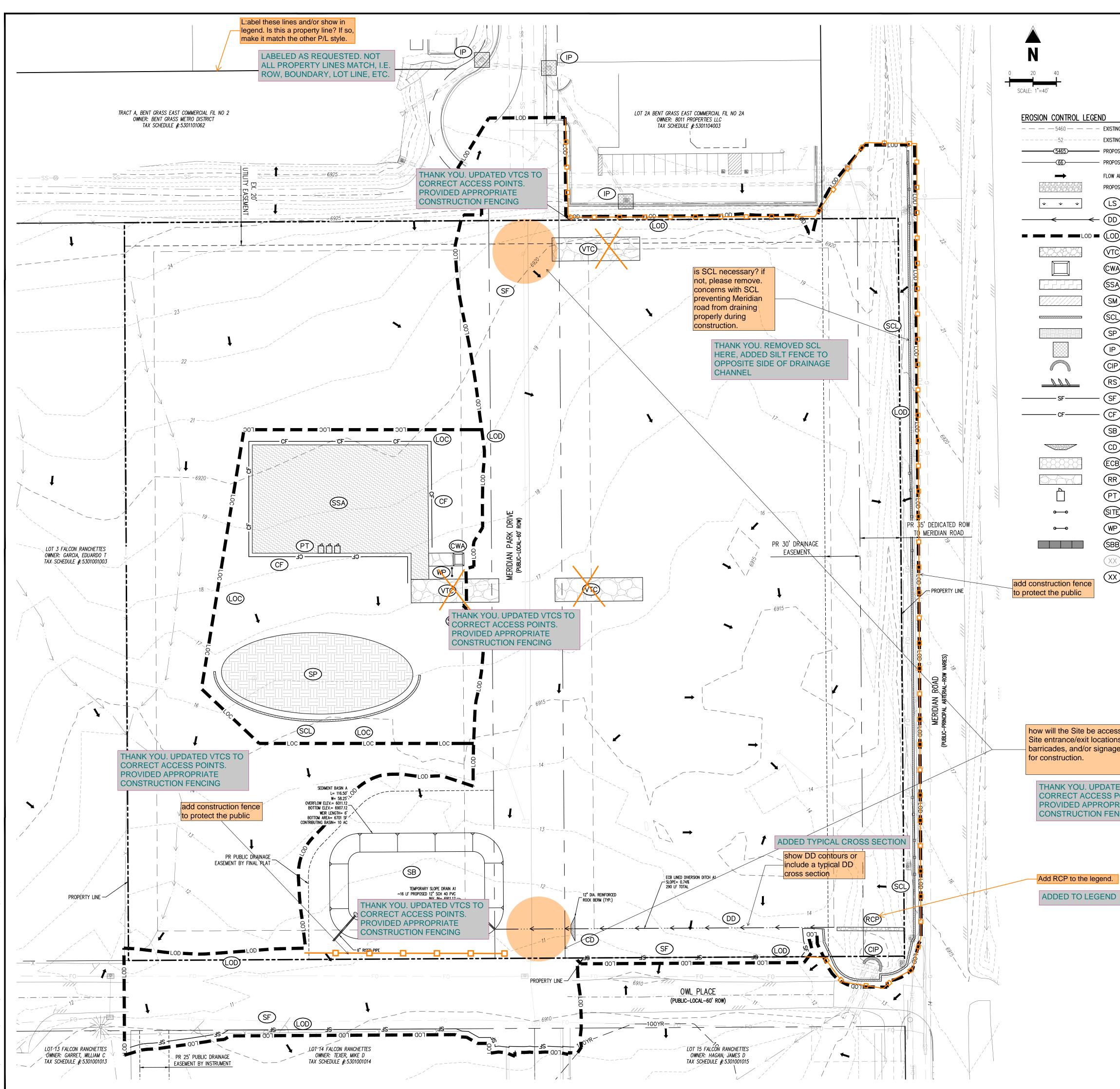
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PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIESTO THE ENGINEER PRIOR TO CONSTRUCTION.



Ca|| before you dig. 2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

G0.2 Sheet 3 of 19



			Colorado Springs, CO 80920 719.900.7220 GallowayUS.com	
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DD LIMITS OF DISTURBANCE/CONSTRUCTION	···	PROPOSED SWALE LINE	COPYRIGHT THESE PLANS ARE AN INSTRUMENT	
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NA CONCRETE WASHOUT AREA		FLOODPLAIN BOUNDARY EXISTING FENCE	WITHOUT THE WRITTEN CONSENT COPYRIGHTS AND INFRINGEMENTS	OF GALLOWAY.
SA) STABILIZED STAGING AREA	xxx		ENFORCED AND PROSECUTED.	
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SF) SILT FENCE		PROPOSED SIGN		
F CONSTRUCTION FENCE	٠	PROPOSED BOLLARDS		
	UTILITY LEGEND			
B) SEDIMENT BASIN	W	EXISTING WATER LINE		
CD CHECK DAM	W	PROPOSED WATER LINE EXISTING SANITARY SEWER		
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	HAS ACCEPTED BY THE STATE.		# Date Issue / Description	n Init.
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ENCING				
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Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	GEC

INITIAL ERUSION CONTROL PLAN

J Sheet 4 of 19

CAUTION - NOTICE TO CONTRACTOR

FINAL

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIESTO THE Know what's below. ENGINEER PRIOR TO CONSTRUCTION.

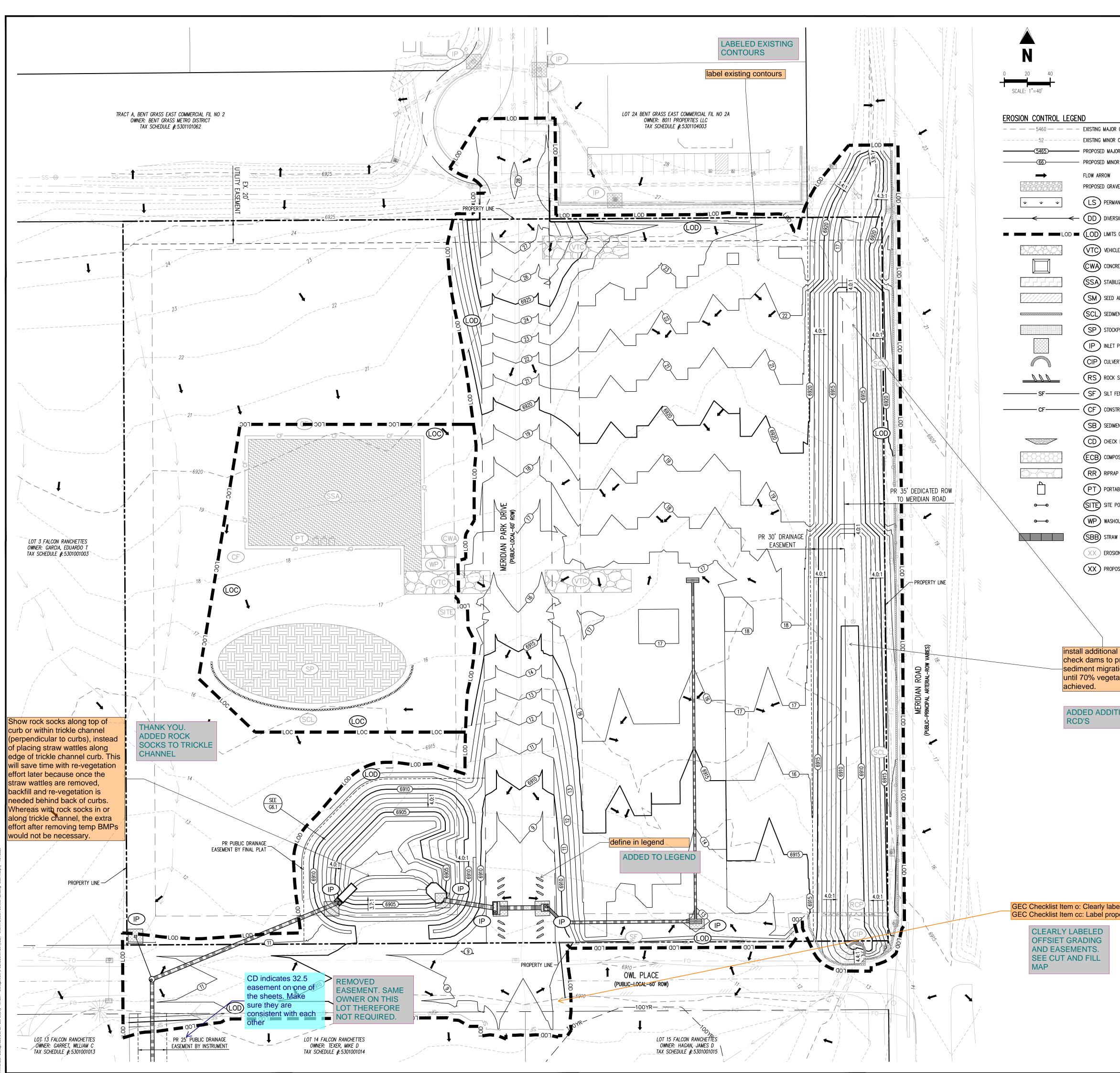


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CONSTRUCT CURB/GUTTER AND PAVEMENT. CONSTRUCT

GAS/ELECTRIC/CABLE/PHONE IN ROW AREAS. REMOVE CONSTRUCTION BMP'S

ONCE VERTICAL CONSTRUCTION OF STORAGE UNITS AND APPLICABLE LANDSCAPING IS COMPLETE AND FINAL STABILIZATION IS ACHIEVED.



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	START OF CONSTRUCTION.	SURES PRIOR TO INSTALLATION OF CONTROL MEASURES OR		
	BEGINNING WORK AND IS RESPONSI	IATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO EA TO SAME STATE PRIOR TO STARTING WORK.		
	EROSION CON	ITROL PHASING SCHEDULE		
	PHASE	DESCRIPTION	<u> </u>	

GEC Checklist Item o: Clearly label off-site grading.

GEC Checklist Item cc: Label proposed off-site easements.

INITIAL CURB SOCKS. CONSTRUCT SEDIMENT BASIN WITH TEMPORARY DIVERSION DITCH AS SHOWN THEN OVERLOT GRADE ENTIRE SITE. CONVERT EXISTING SEDIMENT BASIN TO PROPOSED WATER QUALITY POND WITH ALL PERMANENT CONTROL MEASURES. THEN, INSTALL ALL PROPOSED STORM INTERIM DRAIN INFRASTRUCTURE AND UTILITIES. ADD ALL ASSOCIATED CONSTRUCTION CONTROL MEASURES ONCE UTILITIES ARE INSTALLED CONSTRUCT CURB/GUTTER AND PAVEMENT. CONSTRUCT GAS/ELECTRIC/CABLE/PHONE IN ROW AREAS. REMOVE CONSTRUCTION BMP'S FINAL ONCE VERTICAL CONSTRUCTION OF STORAGE UNITS AND APPLICABLE LANDSCAPING IS COMPLETE AND FINAL STABILIZATION IS ACHIEVED.

PHASE

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIESTO THE Know what's below. ENGINEER PRIOR TO CONSTRUCTION.



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DESCRIPTION MOBILIZE EQUIPMENT TO STABILIZED STAGING AREA. INSTALL VEHICLE TRACKING

CONTROL, SILT FENCE, INLET PROTECTION MEASURES ON EXISTING INLETS, AND

 $\frown \bigcirc$ GZ. Sheet 5 of 19

MRS01

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GEC

Project No:

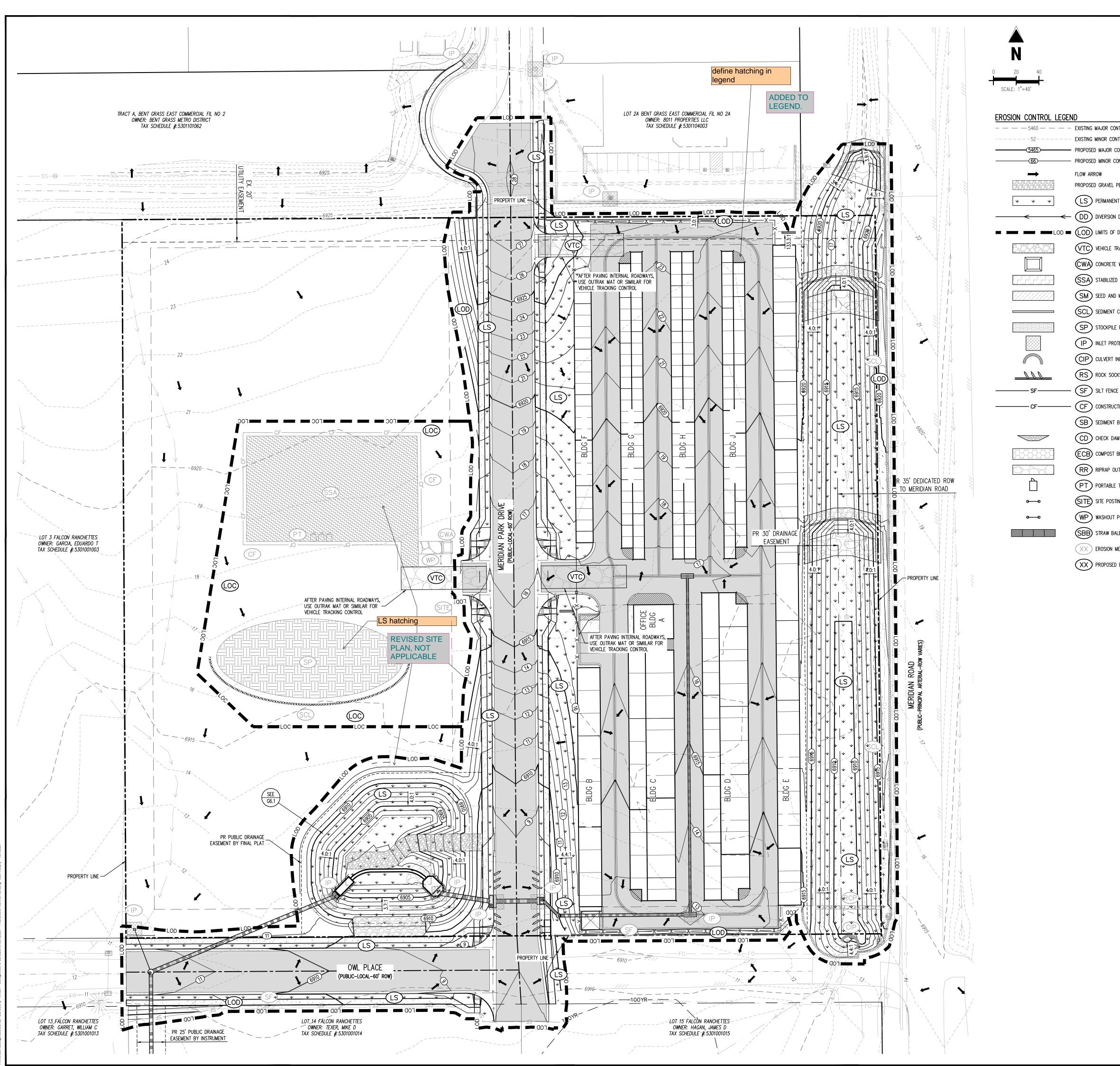
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INTERIM EROSION

CONTROL PLAN

Date:



			GailowayUS.com	
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PROPOSED MAJOR CONTOUR		RIGHT OF WAY LINE		
PROPOSED MINOR CONTOUR		EXISTING ADJACENT LOT LINE		
FLOW ARROW		PROPOSED LOT LINE EXISTING EASEMENT LINE		
PROPOSED GRAVEL PER ECM TABLE D-7		PROPOSED EASEMENT LINE		
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- DD diversion ditch		EXISTING ROAD CENTERLINE		
LOD LIMITS OF DISTURBANCE/CONSTRUCTION		PROPOSED RIDGE LINE PROPOSED SWALE LINE	COPYRIGHT	
VTC) VEHICLE TRACKING CONTROL		EXISTING SWALE LINE	THESE PLANS ARE AN INSTRUMEN AND ARE THE PROPERTY OF GALL	
CWA) CONCRETE WASHOUT AREA	– <u> </u>	FLOODPLAIN BOUNDARY	NOT BE DUPLICATED, DISCLOSED, WITHOUT THE WRITTEN CONSENT	, OR REPRODUCED
\bigcirc	X	EXISTING FENCE	COPYRIGHTS AND INFRINGEMENT ENFORCED AND PROSECUTED.	
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(SM) seed and mulch		PROPOSED CURB AND GUTTER		
SCL SEDIMENT CONTROL LOG		EXISTING CURB AND GUTTER		
SP) STOCKPILE PROTECTION		EXISTING EDGE OF ASPHALT		
(IP) INLET PROTECTION		PROPOSED SIDEWALK		
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\sim		RIPRAP OUTFALL PADS		
(RS) ROCK SOCKS		EXISTING SIGN		
- (SF) silt fence		PROPOSED SIGN		
- CF CONSTRUCTION FENCE	•	PROPOSED BOLLARDS		
(SB) SEDIMENT BASIN	UTILITY LEGEND	EXISTING WATER LINE		
CD CHECK DAM	W	PROPOSED WATER LINE		
(ECB) COMPOST BLANKET (APPROXIMATE)	— — — SS— — —	EXISTING SANITARY SEWER		
	SS	PROPOSED SANITARY SEWER		щ
(RR) RIPRAP OUTFALL PADS		EXISTING STORM SEWER		& OWL PLACE
(PT) PORTABLE TOILET		PROPOSED STORM SEWER EXISTING GAS LINE		Ц
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		PERMANENTLY STABILIZING ALL ON- AND OFF-SITE AREAS		
		WHETHER THESE AREAS ARE SHOWN ON THE PLAN OR ALL CONTROL MEASURES UNTIL A NOTICE OF INACTIVATION		
			# Date Issue / Descriptio	on Init.
		ITS OF DISTURBANCE WITH PAINT, FLAGGING, CONSTRUCTION SURES PRIOR TO INSTALLATION OF CONTROL MEASURES OR		
	START OF CONSTRUCTION.	SOLES FRIGH TO INSTRUCTION OF CONTINUE MEASURES UK		
	NOTE: CONTRACTOR MUST COOPEN	IATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO		
	BEGINNING WORK AND IS RESPONSI	BLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO EA TO SAME STATE PRIOR TO STARTING WORK.	<u> </u>	· · ·
			-	

ER	OSION CONTROL PHASING SCHEDULE
PHASE	DESCRIPTION
INITIAL	MOBILIZE EQUIPMENT TO STABILIZED STAGING AREA. INSTALL VEHICLE TRACKING CONTROL, SILT FENCE, INLET PROTECTION MEASURES ON EXISTING INLETS, AND CURB SOCKS. CONSTRUCT SEDIMENT BASIN WITH TEMPORARY DIVERSION DITCH AS SHOWN THEN OVERLOT GRADE ENTIRE SITE.
INTERIM	CONVERT EXISTING SEDIMENT BASIN TO PROPOSED WATER QUALITY POND WITH ALL PERMANENT CONTROL MEASURES. THEN, INSTALL ALL PROPOSED STORM DRAIN INFRASTRUCTURE AND UTILITIES. ADD ALL ASSOCIATED CONSTRUCTION CONTROL MEASURES ONCE UTILITIES ARE INSTALLED
FINAL	CONSTRUCT CURB/GUTTER AND PAVEMENT. CONSTRUCT GAS/ELECTRIC/CABLE/PHONE IN ROW AREAS. REMOVE CONSTRUCTION BMP'S ONCE VERTICAL CONSTRUCTION OF STORAGE UNITS AND APPLICABLE LANDSCAPING IS COMPLETE AND FINAL STABILIZATION IS ACHIEVED.

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIESTO THE Know what's below. ENGINEER PRIOR TO CONSTRUCTION.



Ca|| before you dig. 2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

GJ. Sheet 6 of 19

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FINAL EROSION CONTROL

MRS01 JDM

CMWJ

GEC

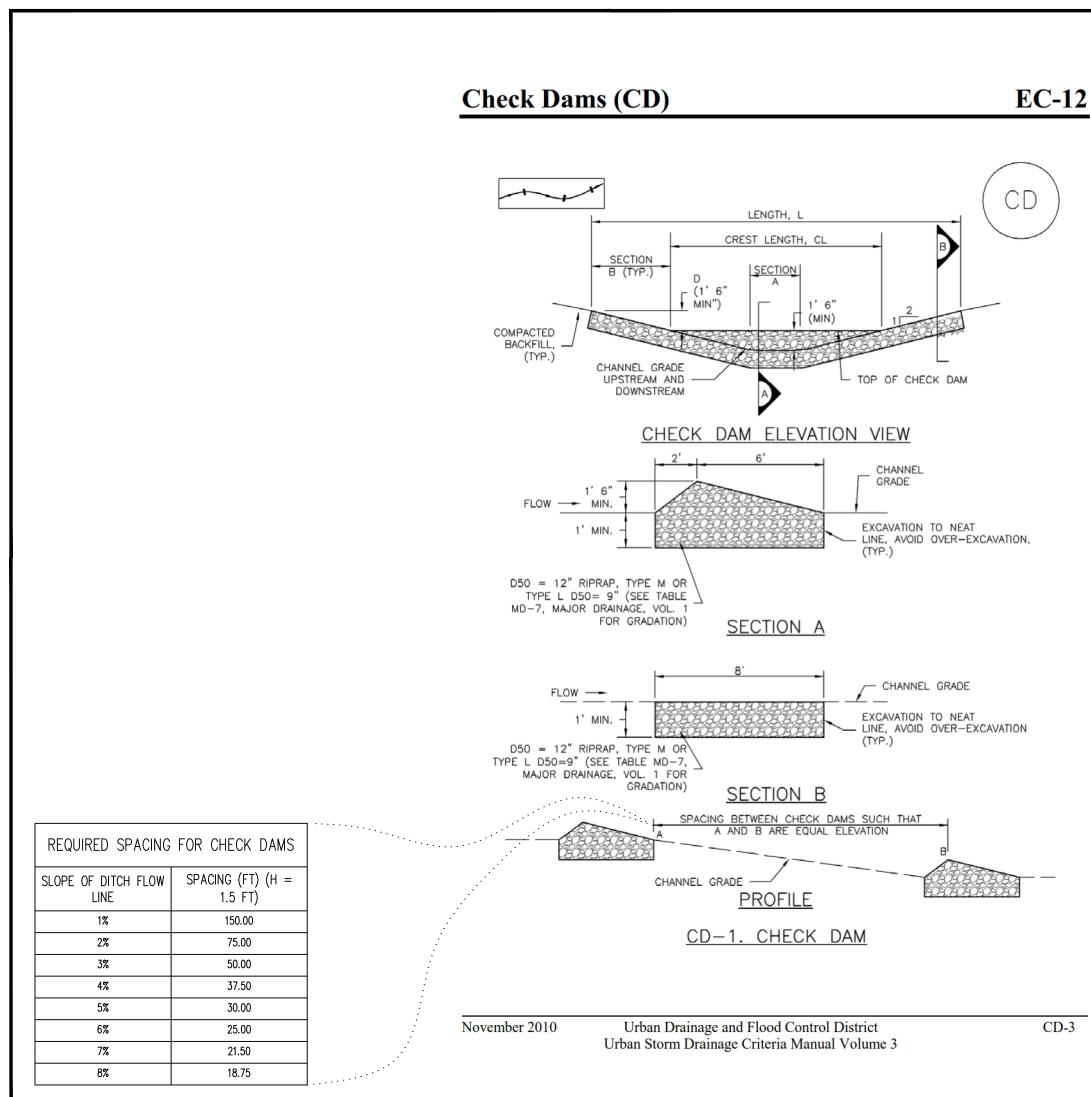
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Checked By:

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Date:



Stockpile Management (SP)

MM-2

SP • 3.0' MIN STOCKPILE SILT FENCE (SEE SF DETAIL FOR INSTALLATION REQUIREMENTS) STOCKPILE PROTECTION PLAN MAXIMUM SILT FENCE (SEE SF DETAIL FOR INSTALLATION REQUIREMENTS) SECTION A SP-1. STOCKPILE PROTECTION STOCKPILE PROTECTION INSTALLATION NOTES 1. SEE PLAN VIEW FOR: -LOCATION OF STOCKPILES. -TYPE OF STOCKPILE PROTECTION.

2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SUMPER CONTROL THE DEPINETER AND OTHER FACTORS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.

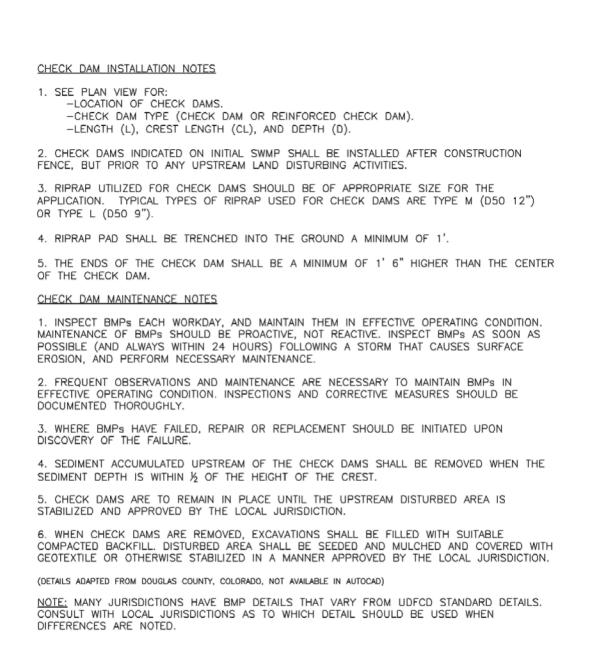
3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).

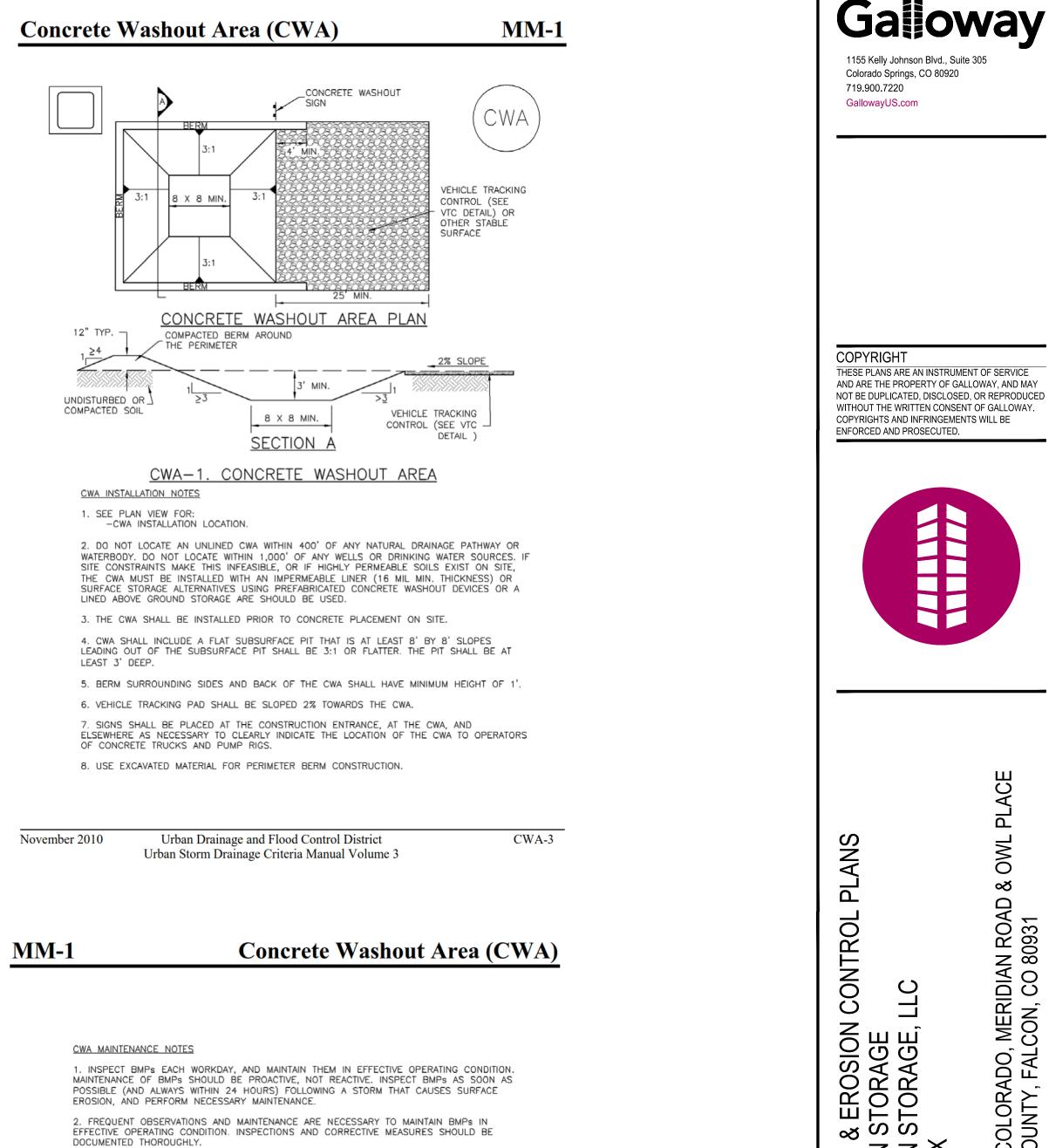
4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

November 2010

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November 2010

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MM-2

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

Stockpile Management (SM)

November 2010

November 2010

STOCKPILE PROTECTION 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.

STOCKPILE PROTECTION MAINTENANCE NOTES 4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.

5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

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

DISCOVERY OF THE FAILURE.

4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.

5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.

6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD). $\underline{\rm NOTE:}$ 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.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

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

November 2010

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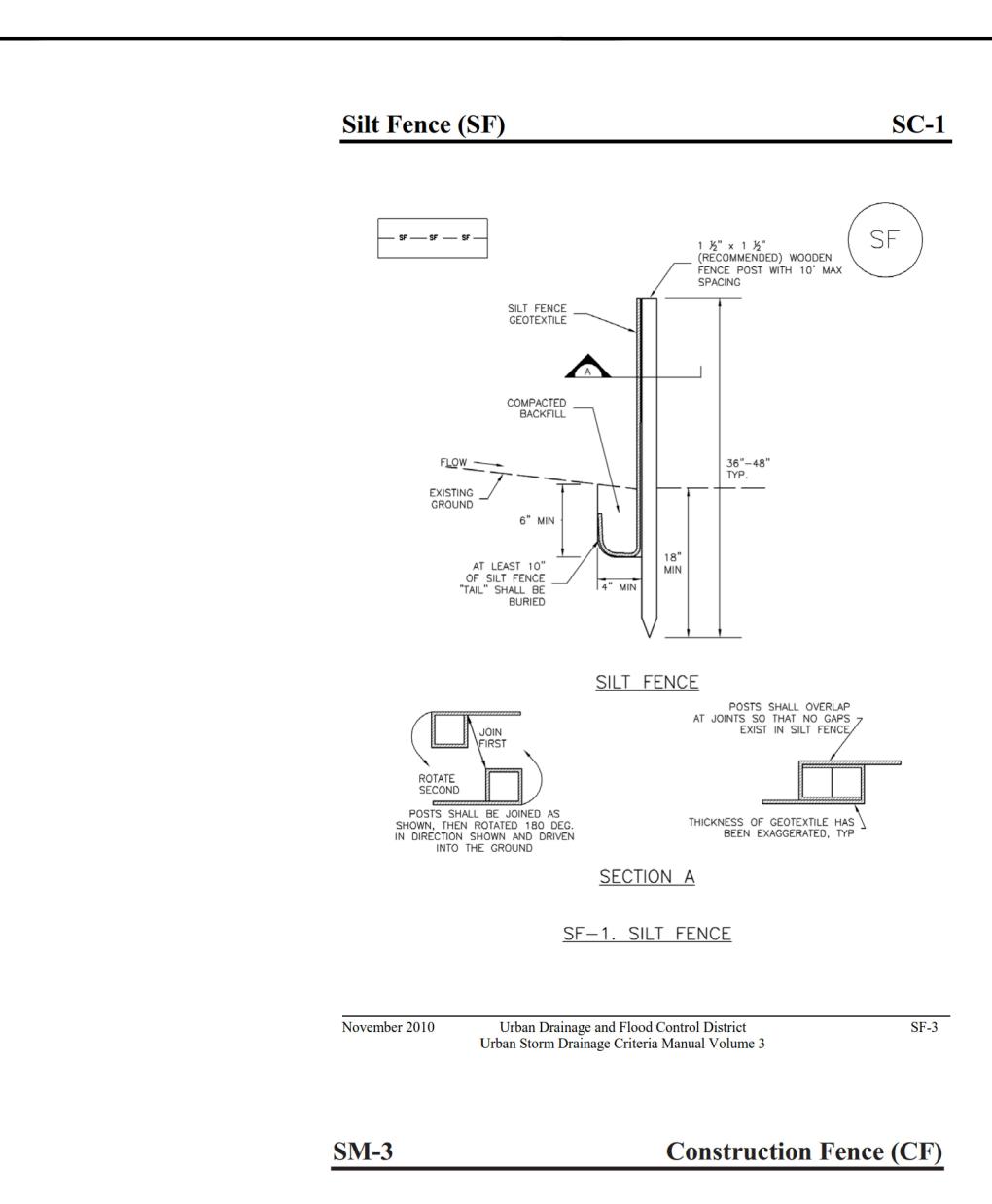
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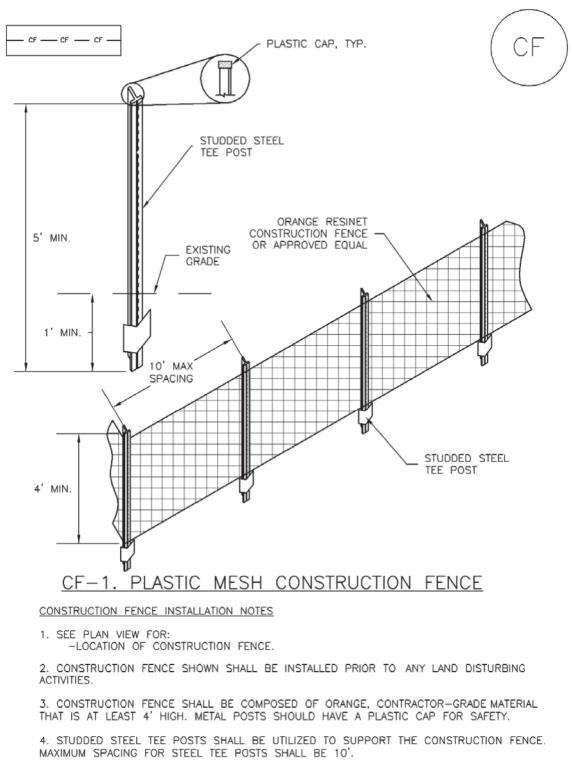
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EROSION CONTROL	
Date:	GEC
Checked By:	CMWJ
Drawn By:	JDM
Project No:	MRS01









5. CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND BOTTOM OF EACH POST.

C	\mathbf{C}	1
D	C-	

Silt Fence (SF)

RS-2

SILT FENCE INSTALLATION NOTES	
1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.	/
2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.	
3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.	0" ON BEDROC HARD SURFACE
4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.	IN SOIL
5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.	<u>ROCK SOCK SE</u>
6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').	ROCK SOCK,
7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.	
SILT FENCE 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.	<u>Rock sock jo</u>
3. WHERE BMP'S HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.	
4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED	ROCK SOCK INSTALLATION
SEDIMENTS IS APPROXIMATELY 6".	1. SEE PLAN VIEW FOR: -LOCATION(S) OF RO
5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.	2. CRUSHED ROCK SHALL AND SHALL COMPLY WITH
6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.	3. WIRE MESH SHALL BE MAXIMUM OPENING OF ½",
7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.	4. WIRE MESH SHALL BE ALONG ALL JOINTS AND AT
(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)	5. SOME MUNICIPALITIES N
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.	mesh for the rock end <u>RS-1. RO</u>

November 2010

SM-3

SF-4

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

Construction Fence (CF)

CONSTRUCTION FENCE 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. CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

5. WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

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.

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

ROCK SOCK MAINTENANCE NOTES

Rock Sock (RS)

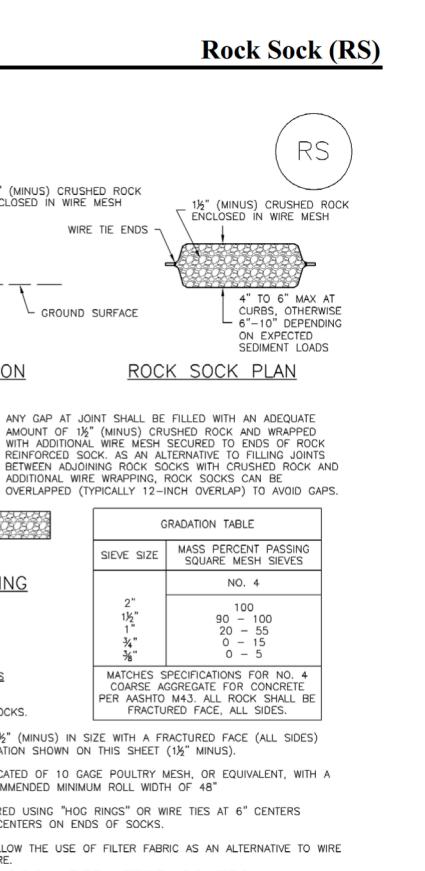
DOCUMENTED THOROUGHLY. DISCOVERY OF THE FAILURE.

BEYOND REPAIR.

STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

DIFFERENCES ARE NOTED.

IN THE MANUFACTURER'S DETAILS.



SOCK PERIMETER CONTROL

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

SC-5

- 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
- 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON
- 4. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED
- 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 ½ OF THE HEIGHT OF THE ROCK SOCK. 6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS
- 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
- 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. UDFCD 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

RS-3

Galloway 1155 Kelly Johnson Blvd., Suite 305 Colorado Springs, CO 80920 719.900.7220 GallowayUS.com

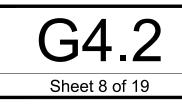
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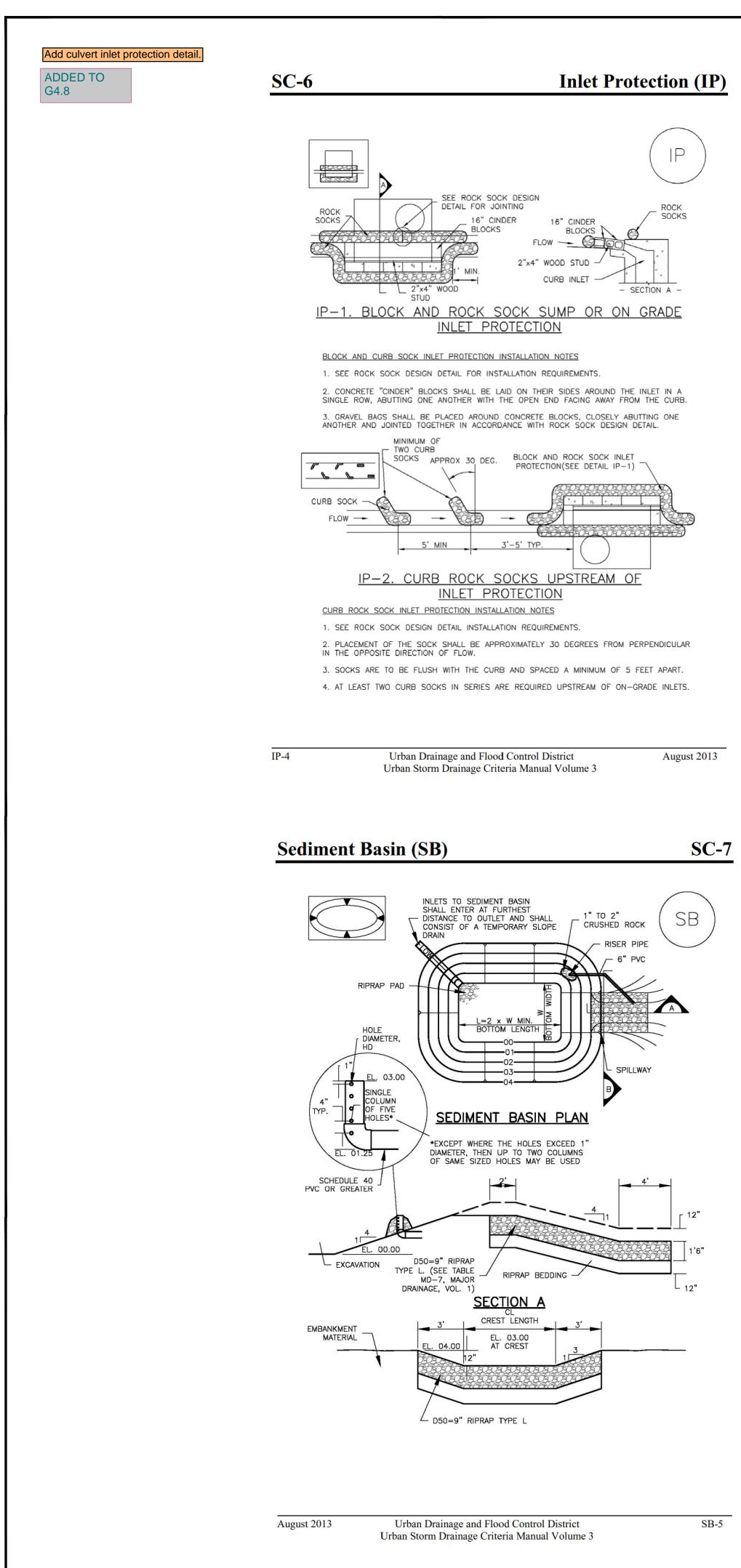
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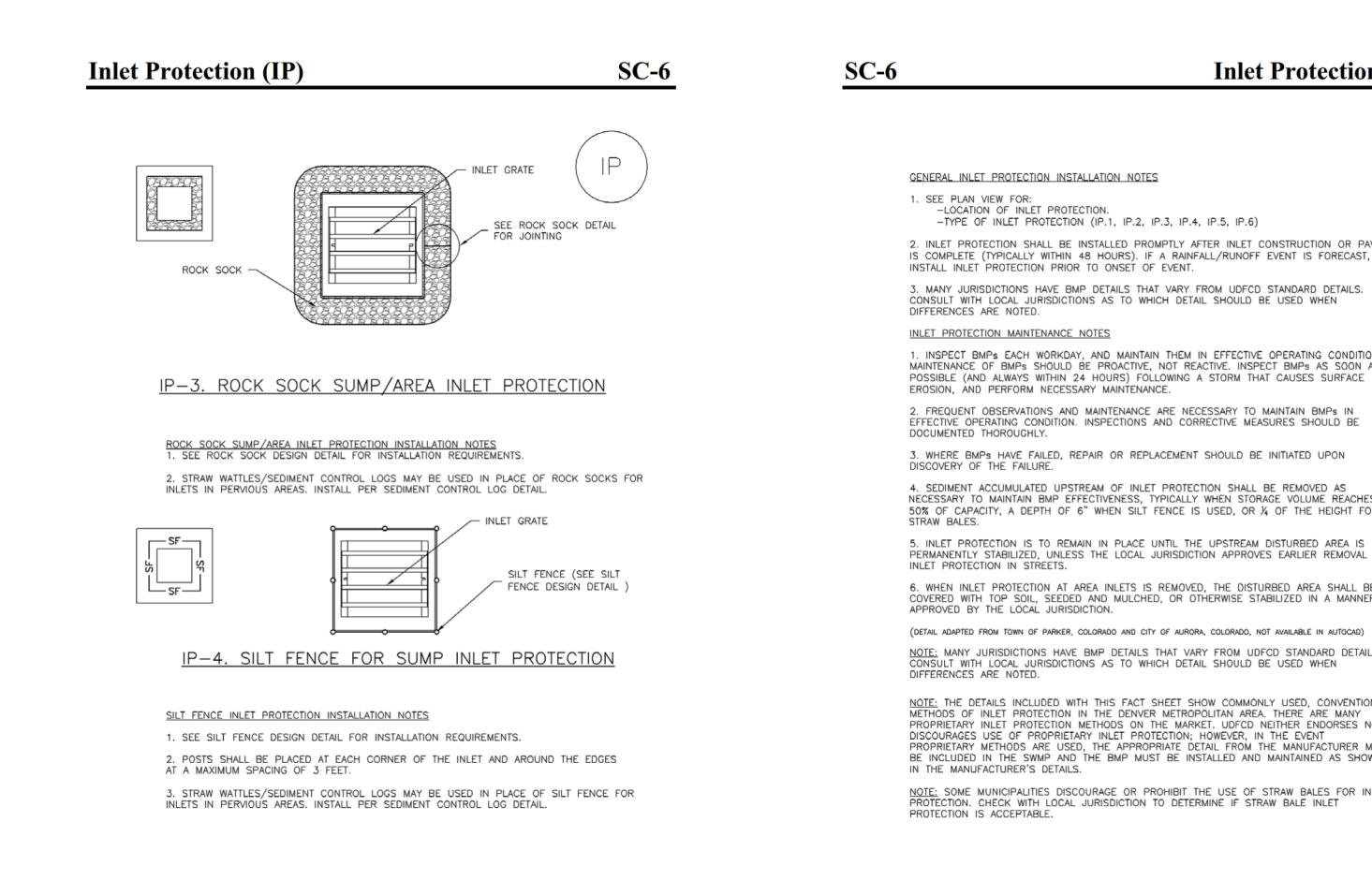


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Date:	GEC
EROSION CONTROL	

DETAILS







August 2013

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

SC-7

SB-6

Sediment Basin (SB)

IP-5

HIGHLIGHTED	TABLE SB-1. SIZ	ZING INFORMATION FO	OR STANDARD SEDIMENT	BASIN
BASIN SIZE	Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
hlight the basin size	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	12 ½ 21 28 33 ½ 38 ½ 43 47 ¼ 51 55 58 ¼ 61 64 67 ½ 70 ½ 73 ¼	2 3 5 6 8 9 11 12 13 15 16 18 19 21 22	932 1376 12 916 2132 2332 2332 2732 2732 2732 2732 2732

SEDIMENT BASIN INSTALLATION NOTES

1. SEE PLAN VIEW FOR: -LOCATION OF SEDIMENT BASIN.

-TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN). -FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER, HD.

-FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.

2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.

3. SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS AS A STORMWATER CONTROL.

4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.

5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698. 6. PIPE SCH 40 OR GREATER SHALL BE USED.

7. THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

Sediment Basin (SB)

DIFFERENCES ARE NOTED.

IP-8

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).

5. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION. 6. WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY

LOCAL JURISDICTION. (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)

Inlet Protection (IP)

-TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6) 2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST,

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

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

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

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

NECESSARY TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR

5. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.

6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER

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

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION; 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

NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET

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

SC-7

SEDIMENT BASIN MAINTENANCE NOTES

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

SB-7



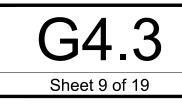
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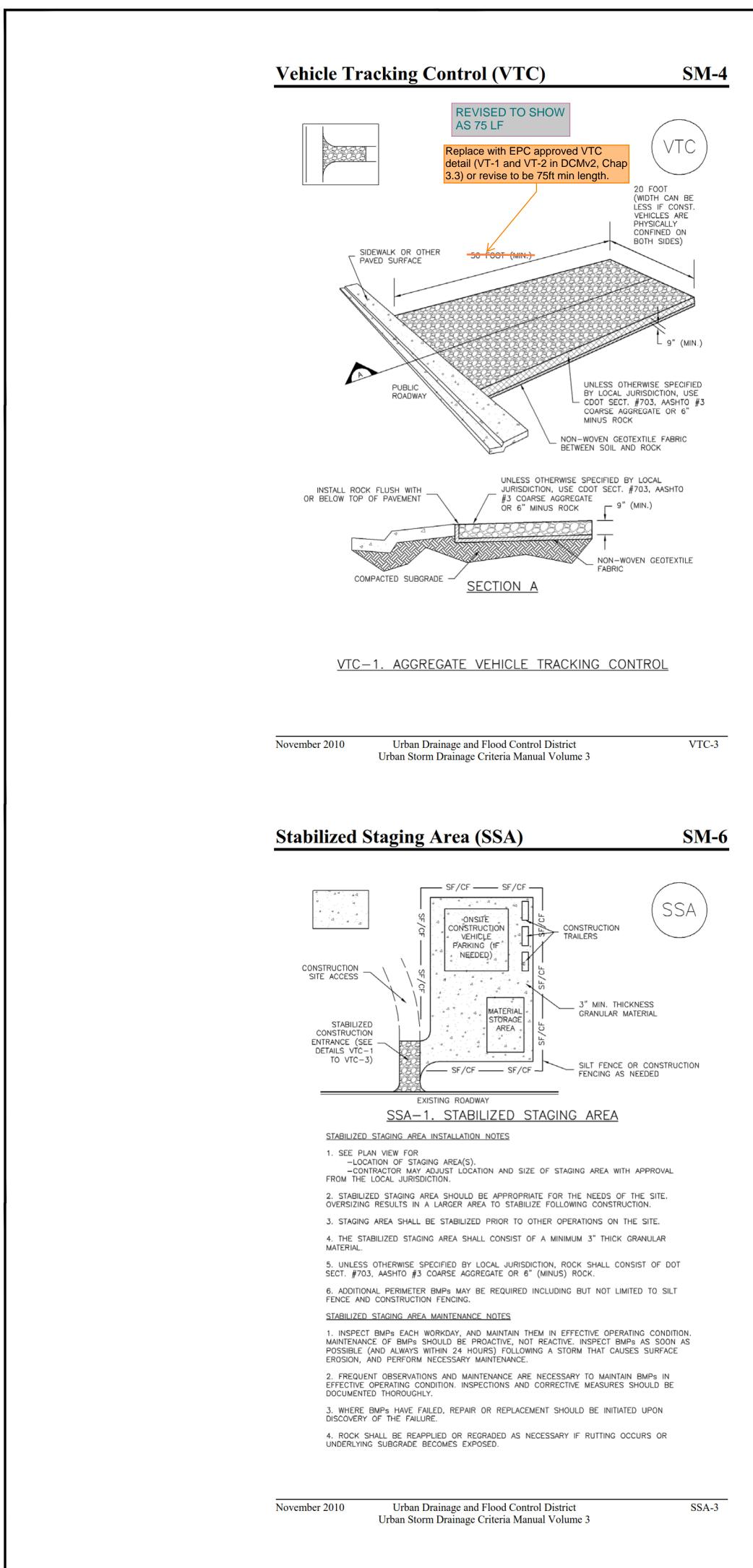
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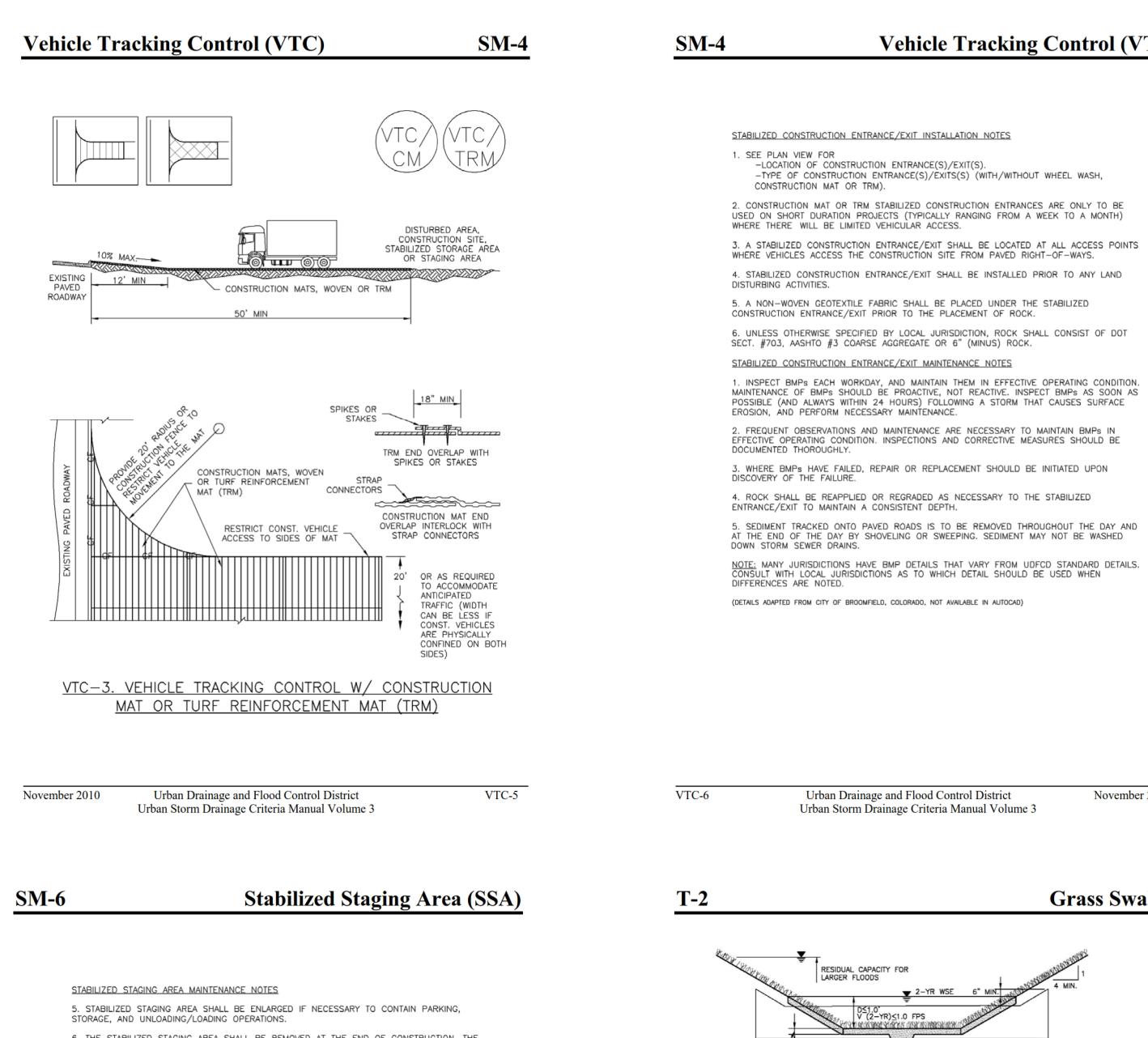


GRADING & EROSION CONTROL PLANS MERIDIAN STORAGE	MERIDIAN STORAGE, LLC SF-23-XXX	STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE	EL PASO COUNTY, FALCON, CO 80931
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ERUSION CONTROL DETAILS



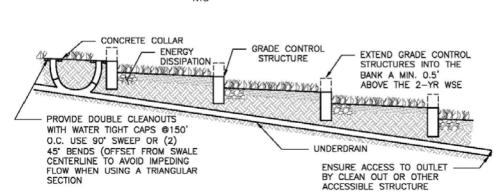




6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

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

DIFFERENCES ARE NOTED. (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)



D 1.0' V (2-YR) 1.0 FPS 12" MIN.

Design Example

GS-6

4" (MIN) SANDY LOAM ------

4" MIN. SANDY LOAM -

The UD-BMP workbook, designed as a tool for both designer and reviewing agency is available at www.udfcd.org. This section provides a completed design form from this workbook as an example.

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

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SSA-4

Vehicle Tracking Control (VTC)

-TYPE OF CONSTRUCTION ENTRANCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH,

2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH)

WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS. 4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND

5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED

6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT

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

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

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

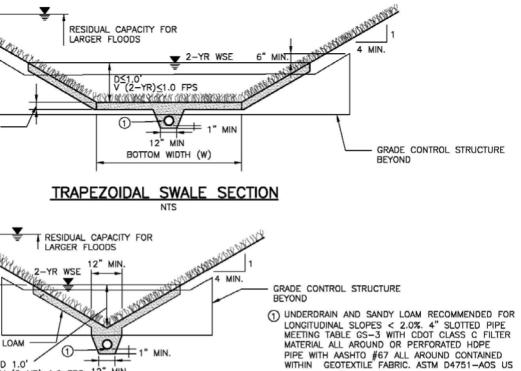
4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED

5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED

Urban Drainage and Flood Control District

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Grass Swale



STD. SIEVE #50 TO #70, ASTM D4533 MIN. TRAPEZOIDAL TEAR STRENGTH 100 X 60 LBS, MINIMUM COE SPECIFIED OPEN AREA OF 4%.

TRIANGULAR SWALE SECTION

SWALE PROFILE

Figure GS-1. Grass Swale Profile and Sections

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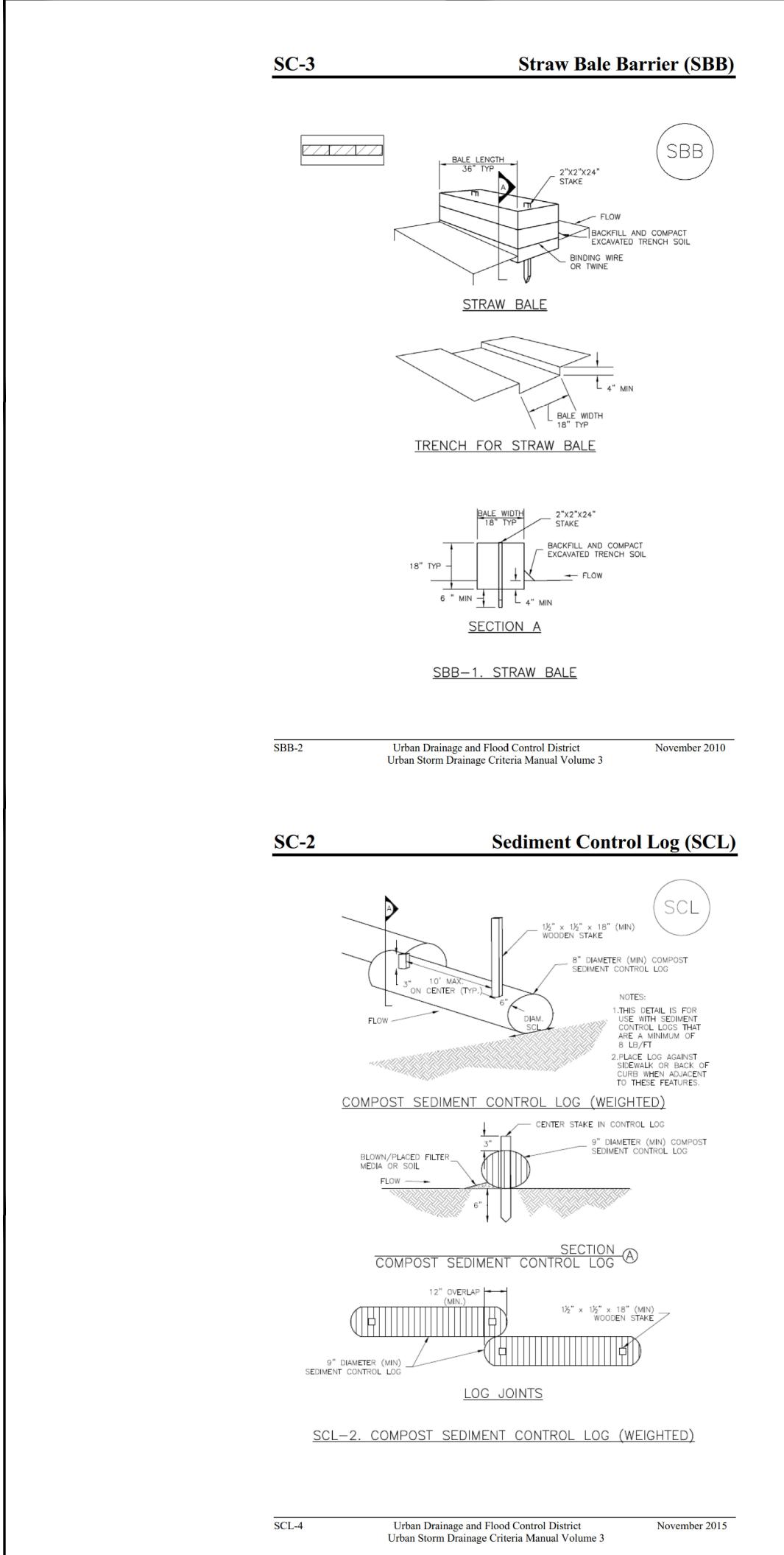
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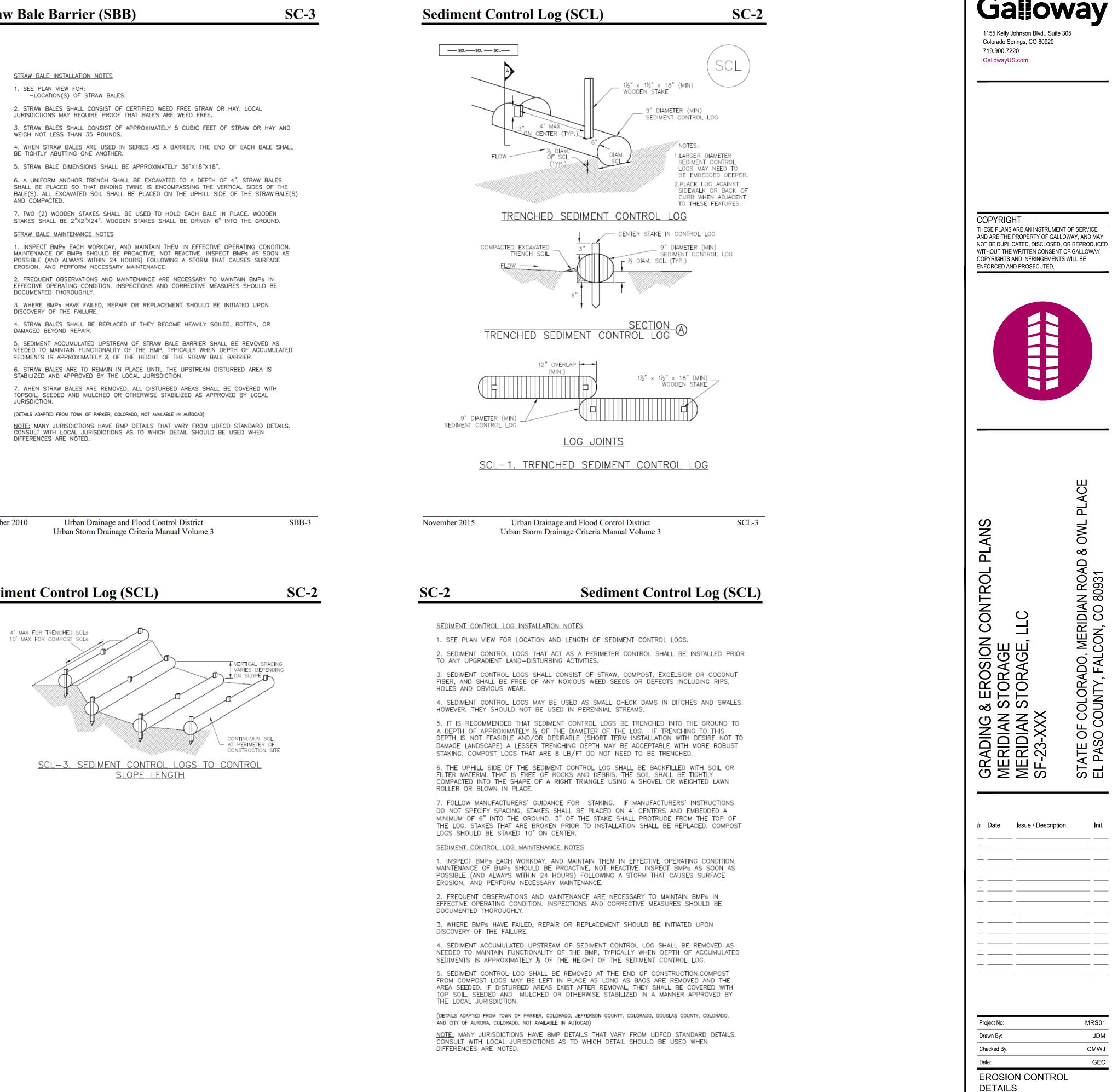


GRADING & EROSION CONTROL PLANS MERIDIAN STORAGE MERIDIAN STORAGE, LLC SF-23-XXX	STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE EL PASO COUNTY, FALCON, CO 80931
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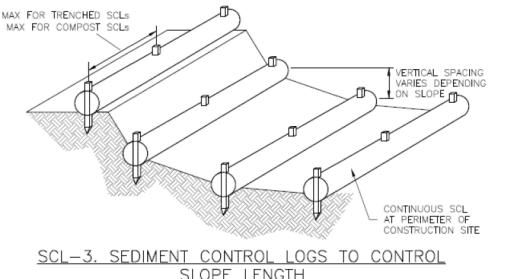


Straw Bale Barrier (SBB)



November 2010

Sediment Control Log (SCL)



SCL-6

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2015

G4. Sheet 11 of 19

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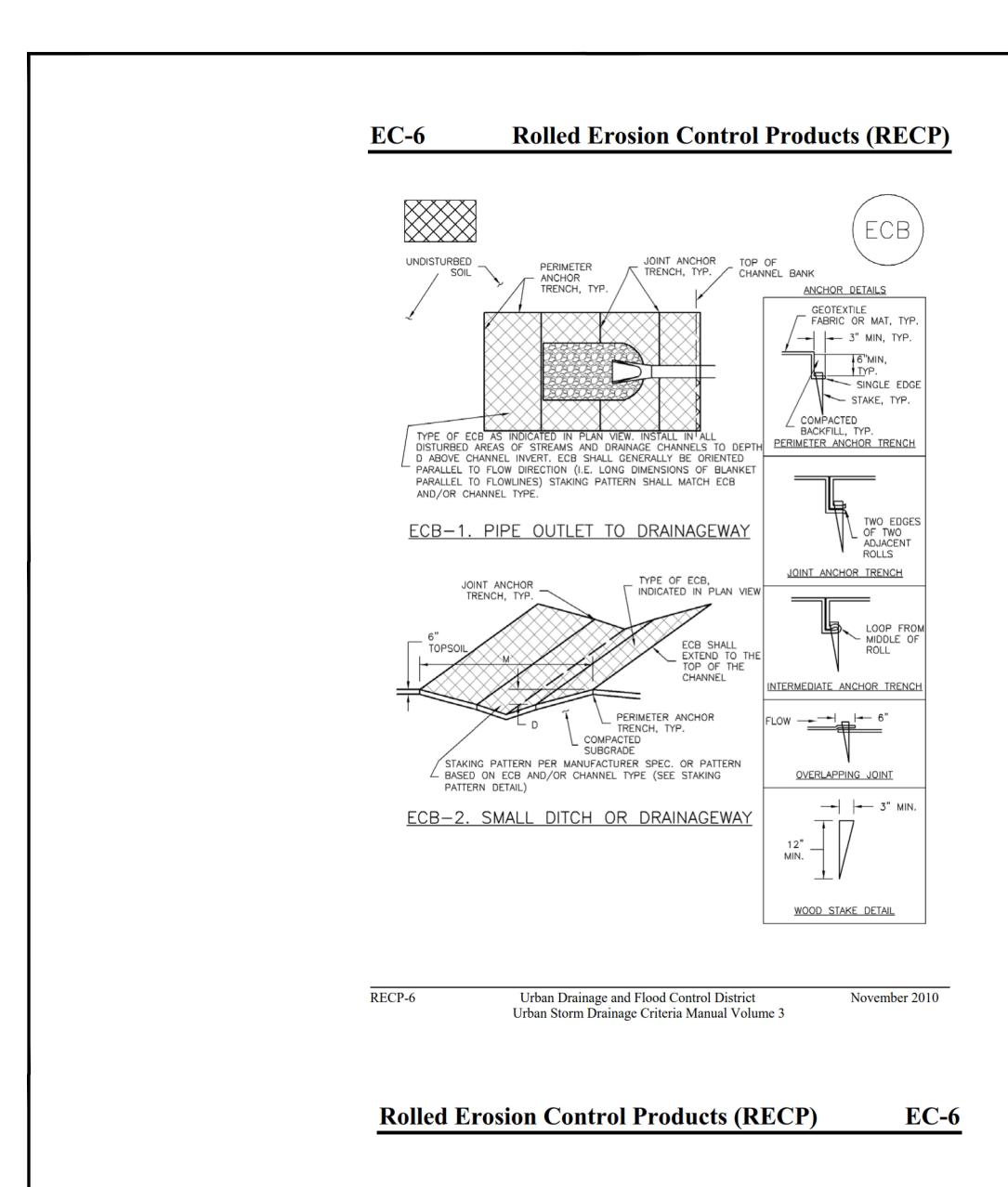
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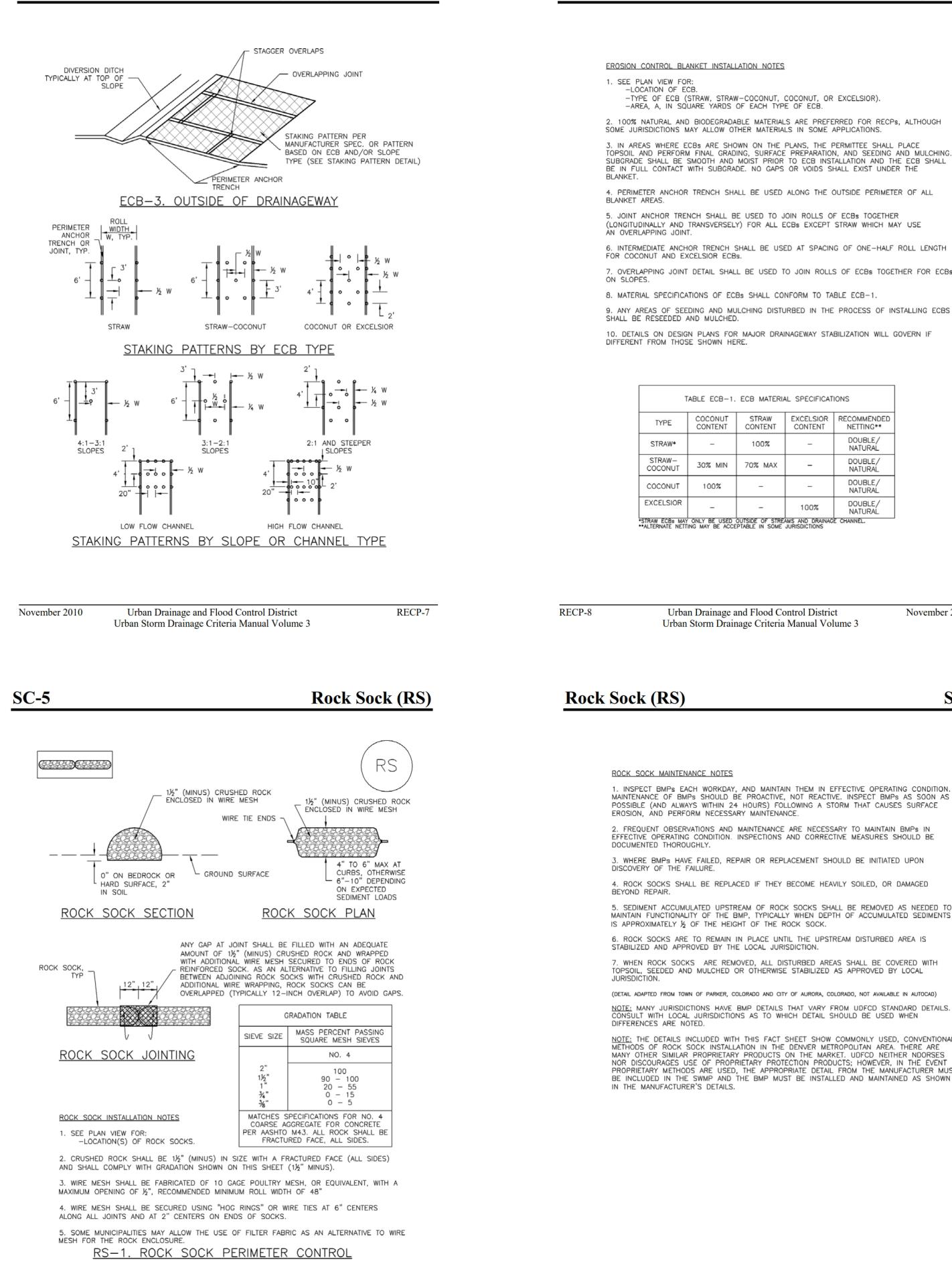
EROSION CONTROL BLANKET MAINTENANCE NOTES

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

Rolled Erosion Control Products (RECP)

EC-6

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EC-6
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Rolled Erosion Control Products (RECP)

2. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPS, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.

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

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

(LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE

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

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS STRAW EXCELSIOR RECOMMENDED CONTENT CONTENT NETTING** DOUBLE/ 100% NATURAL DOUBLE/ 70% MAX NATURAĹ DOUBLE/ _ NATURAL DOUBLE/ NATURAL

100%

Urban Drainage and Flood Control District

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SC-5

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

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

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

4. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED

5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS

6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS

7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL

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

THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL NOTE: THE DETAILS INCLUDED WITH THIS FACT SHELL SHOW COMMOND, USED, CONTRACT, METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD 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

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RS-3

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# Date Besosion Control PLANS MERIDIAN STORAGE ILLC Base / Date MERIDIAN STORAGE MERIDIAN STORAGE ILLC Base / Date SF-23-XXX SF-23-XXX SF-23-XXX	STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE EL PASO COUNTY, FALCON, CO 80931
	MRS01
	MRS01
Drawn By:	JDM



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

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

Successful seeding of annual grass resulting in adequate plant growth will 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 the mulch.

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.

June 2012

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 TS/PS-3

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

Table TS/PS-3. Seeding Dates for Annual and Perennial Grasses

	(Numbers in	Annual Grasses (Numbers in table reference species in Table TS/PS-1)		Perennial Grasses	
Seeding Dates	Warm	Cool	Warm	Cool	
January 1–March 15			~	✓	
March 16–April 30	4	1,2,3	✓	~	
May 1–May 15	4		✓		
May 16–June 30	4,5,6,7				
July 1–July 15	5,6,7				
July 16–August 31					
September 1–September 30		8,9,10,11			
October 1–December 31			✓	~	

Mulch

Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the Mulching BMP Fact Sheet for additional guidance.

Maintenance and Removal

Monitor and observe seeded areas to identify areas of poor growth or areas that fail to germinate. Reseed and mulch these areas, as needed.

An area that has been permanently seeded should have a good stand of vegetation within one growing season if irrigated and within three growing seasons without irrigation in Colorado. Reseed portions of the site that fail to germinate or remain bare after the first growing season.

Seeded areas may require irrigation, particularly during extended dry periods. Targeted weed control may also be necessary.

Protect seeded areas from construction equipment and vehicle access.

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

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			I	_L	
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	Bromus inermis leyss 'Lincoln'	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	- I			- L	
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)

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.) Common Name Sandy Soil Seed Mix Bouteloua g Blue grama Schizachyrii Camper little bluestem 'Camper' Prairie sandreed Calamovilfa Sporobolus Sand dropseed Bouteloua c Vaughn sideoats grama 'Vaughn' Agropyron s Arriba western wheatgrass Total Heavy Clay, Rocky Foothill Seed Mix Agropyron Ephriam crested wheatgrass^d 'Ephriam Agropyron i 'Oahe' Oahe Intermediate wheatgrass Bouteloua c Vaughn sideoats gramae 'Vaughn' Bromus iner Lincoln smooth brome 'Lincoln' Agropyron s Arriba western wheatgrass Total All of the above seeding mixes and rates are based on drill seeding followed by crimped straw mulch. These rates should be doubled if seed is broadcast and should be increased by 50 percent if the seeding is done using a Brillion Drill or is applied through hydraulic seeding. Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1. If hydraulic seeding is used, hydraulic mulching should be done as a separate operation. 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.

TS/PS-4

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 June 2012

June 2012

EC-4

Mulching (MU)

- Clean, weed-free and seed-free cereal grain straw should be applied evenly at a rate of 2 tons per acre and must be tacked or fastened by a method suitable for the condition of the site. Straw mulch must be anchored (and not merely placed) on the surface. This can be accomplished mechanically by crimping or with the aid of tackifiers or nets. Anchoring with a crimping implement is preferred, and is the recommended method for areas flatter than 3:1. Mechanical crimpers must be capable of tucking the long mulch fibers into the soil to a depth of 3 inches without cutting them. An agricultural disk, while not an ideal substitute, may work if the disk blades are dull or blunted and set vertically; however, the frame may have to be weighted to afford proper soil penetration.
- Grass hay may be used in place of straw; however, because hay is comprised of the entire plant including seed, mulching with hay may seed the site with non-native grass species which might in turn out-compete the native seed. Alternatively, native species of grass hay may be purchased, but can be difficult to find and are more expensive than straw. Purchasing and utilizing a certified weed-free straw is an easier and less costly mulching method. When using grass hay, follow the same guidelines as for straw (provided above).
- On small areas sheltered from the wind and heavy runoff, spraying a tackifier on the mulch is satisfactory for holding it in place. For steep slopes and special situations where greater control is needed, erosion control blankets anchored with stakes should be used instead of mulch.
- Hydraulic mulching consists of wood cellulose fibers mixed with water and a tackifying agent and should be applied at a rate of no less than 1,500 pounds per acre (1,425 lbs of fibers mixed with at least 75 lbs of tackifier) with a hydraulic mulcher. For steeper slopes, up to 2000 pounds per acre may be required for effective hydroseeding. Hydromulch typically requires up to 24 hours to dry; therefore, it should not be applied immediately prior to inclement weather. Application to roads, waterways and existing vegetation should be avoided.
- Erosion control mats, blankets, or nets are recommended to help stabilize steep slopes (generally 3:1 and steeper) and waterways. Depending on the product, these may be used alone or in conjunction with grass or straw mulch. Normally, use of these products will be restricted to relatively small areas. Biodegradable mats made of straw and jute, straw-coconut, coconut fiber, or excelsior can be used instead of mulch. (See the ECM/TRM BMP for more information.)
- Some tackifiers or binders may be used to anchor mulch. Check with the local jurisdiction for allowed tackifiers. Manufacturer's recommendations should be followed at all times. (See the Soil Binder BMP for more information on general types of tackifiers.)
- Rock can also be used as mulch. It provides protection of exposed soils to wind and water erosion and allows infiltration of precipitation. An aggregate base course can be spread on disturbed areas for temporary or permanent stabilization. The rock mulch layer should be thick enough to provide full coverage of exposed soil on the area it is applied.

Maintenance and Removal

MU-2

After mulching, the bare ground surface should not be more than 10 percent exposed. Reapply mulch, as needed, to cover bare areas.

EC-2

otanical Name	Growth Season ^b	Growth Form	Seeds/ Pound	Pounds of PLS/acre
gracilis	Warm	Sod-forming bunchgrass	825,000	0.5
ium scoparium	Warm	Bunch	240,000	1.0
à longifolia	Warm	Open sod	274,000	1.0
cryptandrus	Cool	Bunch	5,298,000	0.25
curtipendula	Warm	Sod	191,000	2.0
smithii 'Arriba'	Cool	Sod	110,000	5.5
				10.25
	•	-		
cristatum	Cool	Sod	175,000	1.5
intermedium	Cool	Sod	115,000	5.5
curtipendula	Warm	Sod	191,000	2.0
rmis leyss	Cool	Sod	130,000	3.0
smithii 'Arriba'	Cool	Sod	110,000	5.5
				17.5

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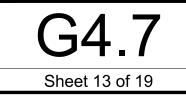
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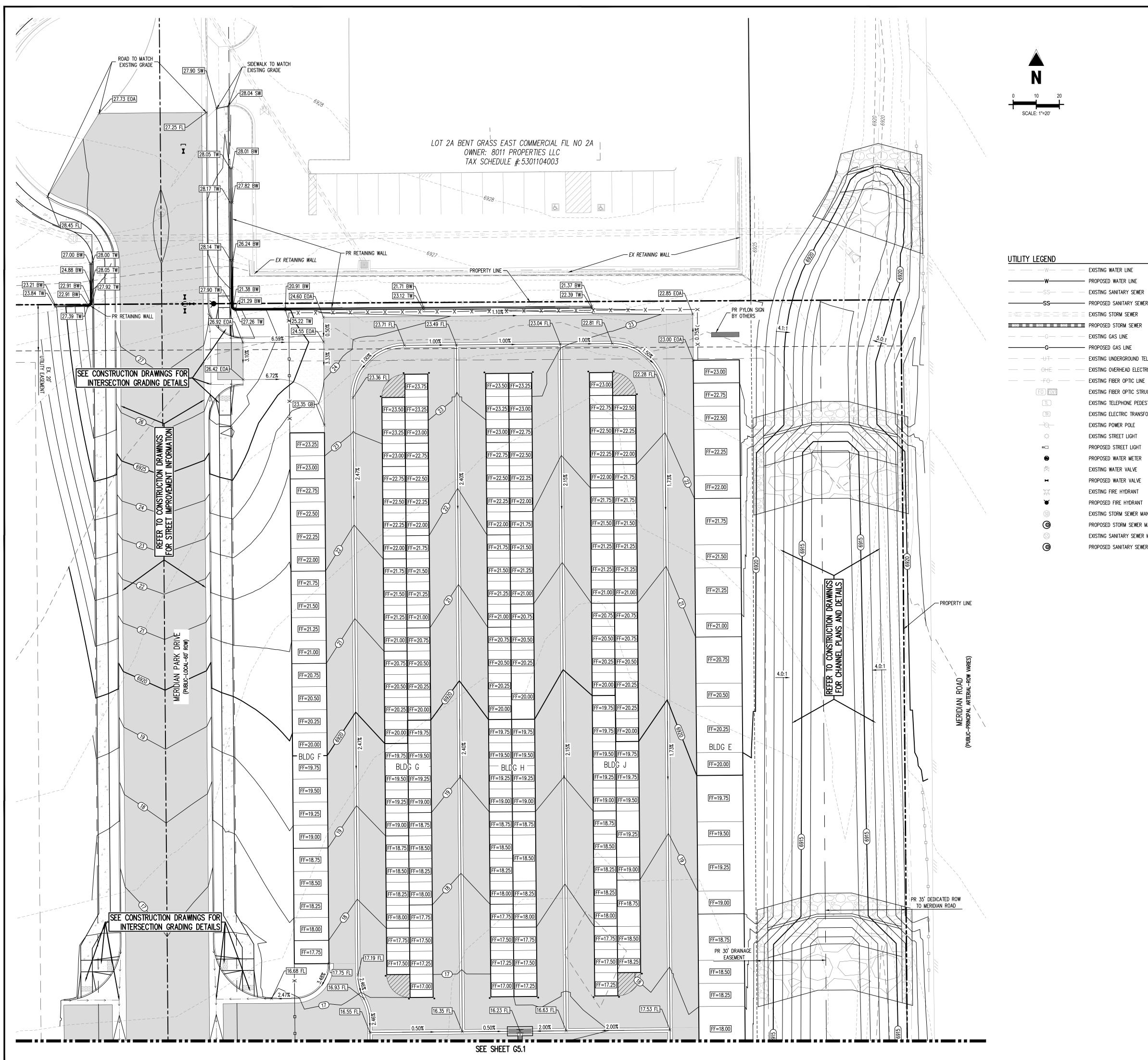


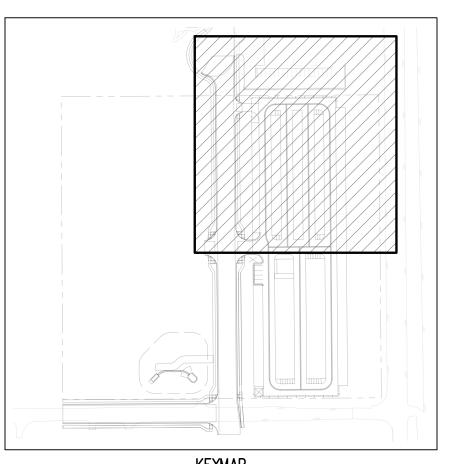
GRADING & EROSION CONTROL PLANS MERIDIAN STORAGE	MERIDIAN STORAGE, LLC SF-23-XXX	STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE EL PASO COUNTY, FALCON, CO 80931
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# Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	GEC
EROSION CONTROL	

JN CONTROL DETAILS







KEYMAP SCALE: 1"=200'

- PROPOSED WATER LINE EXISTING SANITARY SEWER EXISTING GAS LINE ------ PROPOSED GAS LINE EXISTING UNDERGROUND TELEPHONE EXISTING OVERHEAD ELECTRIC EXISTING FIBER OPTIC LINE EXISTING FIBER OPTIC STRUCTURES EXISTING TELEPHONE PEDESTAL EXISTING ELECTRIC TRANSFORMER EXISTING POWER POLE EXISTING STREET LIGHT PROPOSED STREET LIGHT PROPOSED WATER METER EXISTING WATER VALVE PROPOSED WATER VALVE EXISTING FIRE HYDRANT PROPOSED FIRE HYDRANT EXISTING STORM SEWER MANHOLE PROPOSED STORM SEWER MANHOLE

EXISTING SANITARY SEWER MANHOLE PROPOSED SANITARY SEWER MANHOLE

LEGEND	
5460	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
5465	PROPOSED MAJOR CONTOUR
-66)	PROPOSED MINOR CONTOUR
2.00%	EXISTING SLOPE - PERCENT
4:1	EXISTING SLOPE - RISE/RUN
2.00%	PROPOSED SLOPE - PERCENT
4:1	PROPOSED SLOPE - RISE/RUN
89.00 HP	PROPOSED SPOT ELEVATION - HIGH POINT
89.00 LP	PROPOSED SPOT ELEVATION - LOW POINT
89.00 TOB	PROPOSED SPOT ELEVATION - TOP OF BERM
89.00 FL	PROPOSED SPOT ELEVATION - FLOW LINE
89.00 TG	PROPOSED SPOT ELEVATION - TOP OF GRATE
89.00 FG	PROPOSED SPOT ELEVATION - FINISHED GRADE
89.00 SW	PROPOSED SPOT ELEVATION - SIDEWALK
89.00 EOC	PROPOSED SPOT ELEVATION - EDGE OF CONCRETE
89.00 EOA	PROPOSED SPOT ELEVATION - EDGE OF ASPHALT
89.00 ME	PROPOSED SPOT ELEVATION - MATCH EXISTING

<u>SITE LEGEND</u>

GRADING

PROJECT BOUNDARY LINE
ADJACENT PROPERTY BOUNDARY LINE
RIGHT OF WAY LINE
EXISTING ADJACENT LOT LINE
PROPOSED LOT LINE
EXISTING EASEMENT LINE
PROPOSED EASEMENT LINE
PROPOSED ROAD CENTERLINE
EXISTING ROAD CENTERLINE
PROPOSED RIDGE LINE
PROPOSED SWALE LINE
EXISTING SWALE LINE
FLOODPLAIN BOUNDARY
EXISTING FENCE
PROPOSED FENCE
EXISTING GUARDRAIL
PROPOSED CURB AND GUTTER
EXISTING CURB AND GUTTER
EXISTING EDGE OF ASPHALT
PROPOSED SIDEWALK
PROPOSED TRAIL
PROPOSED GRAVEL PER ECM TABLE D-7
RIPRAP OUTFALL PADS
EXISTING SIGN
PROPOSED SIGN
PROPOSED BOLLARDS

BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WODDMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

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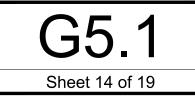


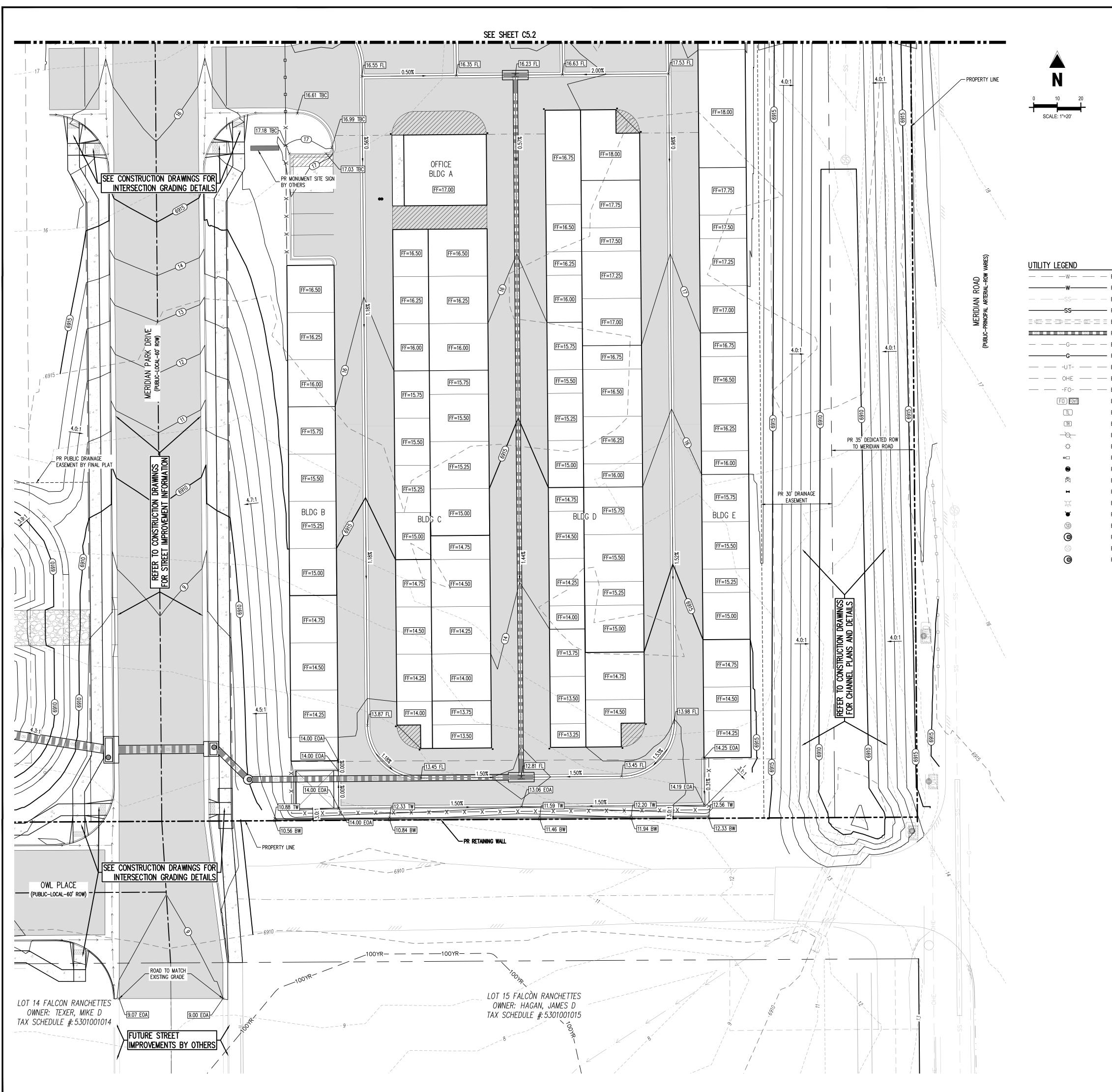
GRADING & EROSION CONTROL PLANS MERIDIAN STORAGE	MERIDIAN STORAGE, LLC SF-23-XXX	STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE	FI DASO COLINTY FAI CON CO 20031
# Date 	Issue / Description		Ini

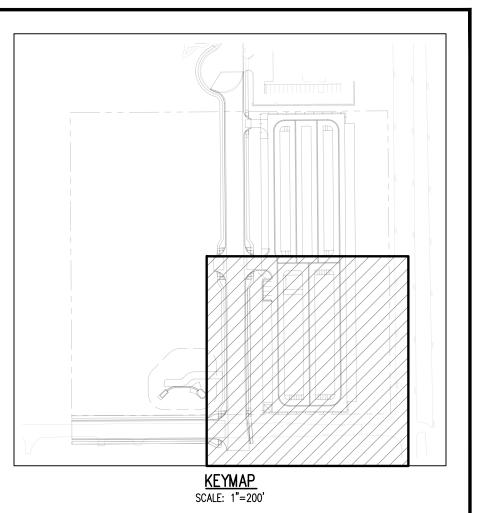
Date:	GEC
Checked By:	CMWJ
Drawn By:	JDM
Project No:	MRS01

GRADING PLAN

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EXISTING WATER LINE
PROPOSED WATER LINE
EXISTING SANITARY SEWER
PROPOSED SANITARY SEWER
EXISTING STORM SEWER
PROPOSED STORM SEWER
EXISTING GAS LINE
PROPOSED GAS LINE
EXISTING UNDERGROUND TELEPHONE
EXISTING OVERHEAD ELECTRIC
Existing fiber optic line
Existing fiber optic structures
EXISTING TELEPHONE PEDESTAL
EXISTING ELECTRIC TRANSFORMER
EXISTING POWER POLE
EXISTING STREET LIGHT
PROPOSED STREET LIGHT
PROPOSED WATER METER
EXISTING WATER VALVE
PROPOSED WATER VALVE
EXISTING FIRE HYDRANT
PROPOSED FIRE HYDRANT
EXISTING STORM SEWER MANHOLE
PROPOSED STORM SEWER MANHOLE

EXISTING SANITARY SEWER MANHOLE PROPOSED SANITARY SEWER MANHOLE

GRADING LEGEND	
	EXISTING MAJOR CONTOUR
52	EXISTING MINOR CONTOUR
5465	- PROPOSED MAJOR CONTOUR
66	- PROPOSED MINOR CONTOUR
2.00%	EXISTING SLOPE - PERCENT
4:1	EXISTING SLOPE - RISE/RUN
2.00%	PROPOSED SLOPE - PERCENT
<u>4:1</u>	PROPOSED SLOPE - RISE/RUN
89.00 HP	PROPOSED SPOT ELEVATION - HIGH POINT
89.00 LP	PROPOSED SPOT ELEVATION - LOW POINT
89.00 TOB	PROPOSED SPOT ELEVATION - TOP OF BERM
89.00 FL	PROPOSED SPOT ELEVATION - FLOW LINE
89.00 TG	PROPOSED SPOT ELEVATION - TOP OF GRATE
89.00 FG	PROPOSED SPOT ELEVATION - FINISHED GRADE
89.00 SW	PROPOSED SPOT ELEVATION - SIDEWALK
89.00 EOC	PROPOSED SPOT ELEVATION - EDGE OF CONCRETE
89.00 EOA	PROPOSED SPOT ELEVATION - EDGE OF ASPHALT
89.00 ME	PROPOSED SPOT ELEVATION - MATCH EXISTING

SITE LEGEND

PROJECT BOUNDARY LINE
ADJACENT PROPERTY BOUNDARY LINE
RIGHT OF WAY LINE
EXISTING ADJACENT LOT LINE
PROPOSED LOT LINE
EXISTING EASEMENT LINE
PROPOSED EASEMENT LINE
PROPOSED ROAD CENTERLINE
EXISTING ROAD CENTERLINE
PROPOSED RIDGE LINE
PROPOSED SWALE LINE
EXISTING SWALE LINE
FLOODPLAIN BOUNDARY
EXISTING FENCE
PROPOSED FENCE
EXISTING GUARDRAIL
PROPOSED CURB AND GUTTER
EXISTING CURB AND GUTTER
EXISTING EDGE OF ASPHALT
PROPOSED SIDEWALK
PROPOSED TRAIL
PROPOSED GRAVEL PER ECM TABLE D-7
RIPRAP OUTFALL PADS
EXISTING SIGN
PROPOSED SIGN
PROPOSED BOLLARDS

BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WODDMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

BASIS OF BEARING

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89*40'45"W. DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHEAST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO

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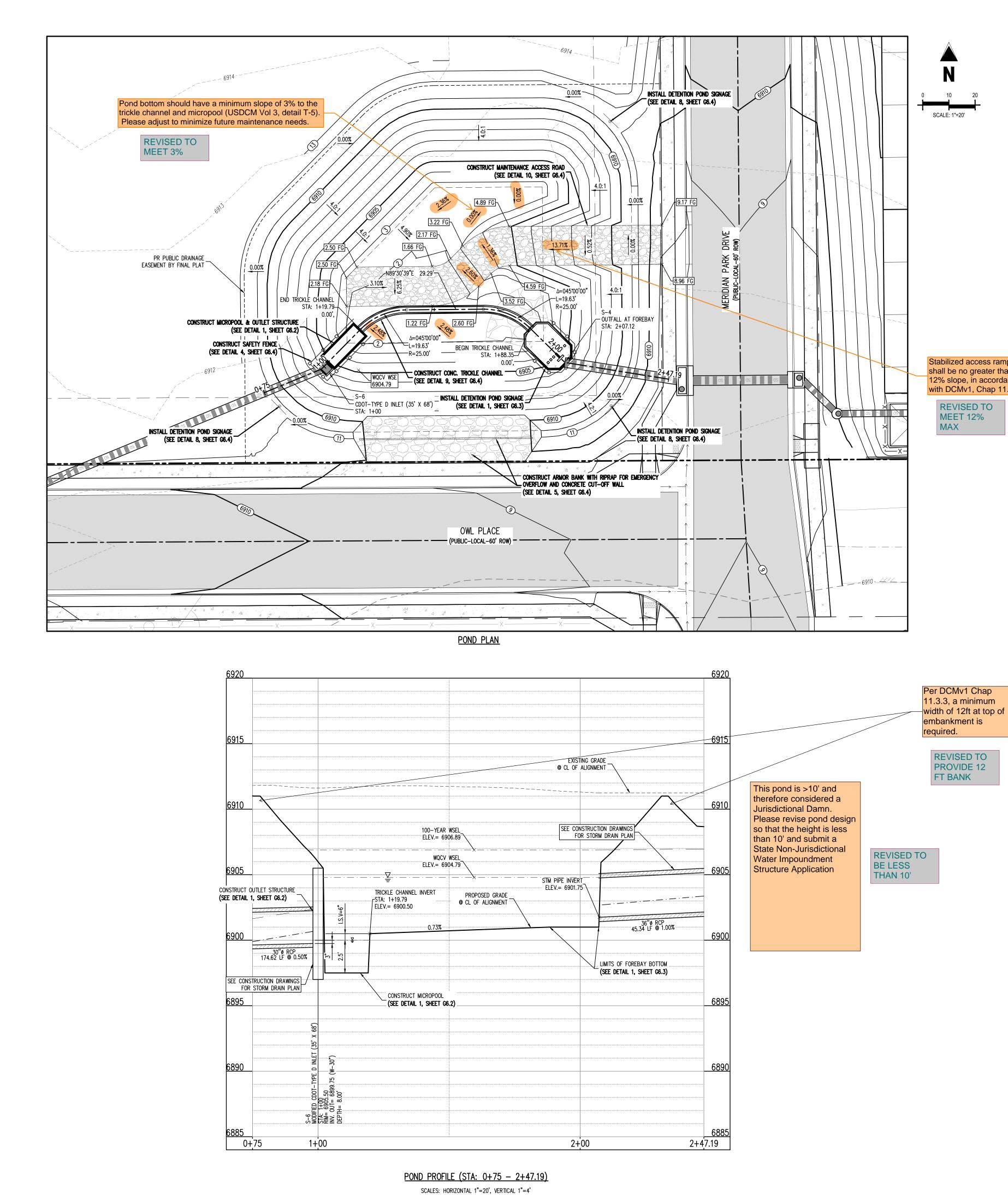
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Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	GEC

GRADING PLAN

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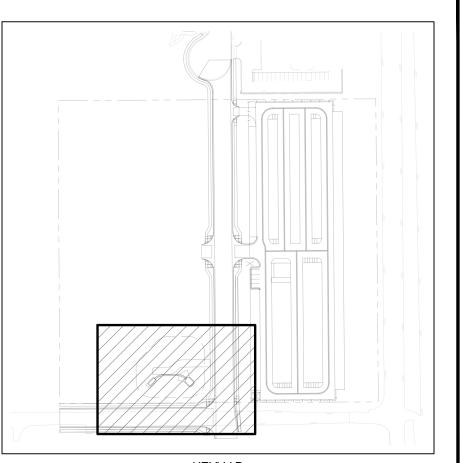




Stabilized access ramp shall be no greater than 12% slope, in accordance with DCMv1, Chap 11.2.2. **REVISED TO** MEET 12%

GRADING LEGEND		
	EXISTING	I

0100	Entom
52	- EXISTIN
5465	- PROPO
66	- PROPO
2.00%	EXISTIN
4:1	EXISTIN
2.00%	PROPO
<u>4:1</u>	PROPO
89.00 HP	PROPO
89.00 LP	PROPO
89.00 TOB	PROPO
89.00 FL	PROPO
89.00 TG	PROPO
89.00 FG	PROPO
89.00 SW	PROPO
89.00 EOC	PROPO
89.00 EOA	PROPO
89.00 ME	PROPO



G MAJOR CONTOUR
G MINOR CONTOUR
ED MAJOR CONTOUR
ED MINOR CONTOUR
G SLOPE - PERCENT
G SLOPE - RISE/RUN
ED SLOPE – PERCENT
ed slope – Rise/Run
ed spot elevation – High Point
ed spot elevation – low point
ed spot elevation — Top of Berm
ed spot elevation – Flow Line
ED SPOT ELEVATION – TOP OF GRATE
ed spot elevation — Finished grade
ed spot elevation – sidewalk
ED SPOT ELEVATION - EDGE OF CONCRETE
ed spot elevation — edge of asphalt
ED SPOT ELEVATION – MATCH EXISTING

	KEYMAP SCALE: 1"=200'
	SUALE: I = 200
SITE LEGEND	
	PROJECT BOUNDARY LINE
	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY LINE
	EXISTING ADJACENT LOT LINE
	PROPOSED LOT LINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	PROPOSED ROAD CENTERLINE
<u> </u>	EXISTING ROAD CENTERLINE
	PROPOSED RIDGE LINE
··· < ··· <	PROPOSED SWALE LINE
· · · < <u></u> · · · < <u></u>	EXISTING SWALE LINE
100YR-	FLOODPLAIN BOUNDARY
X	EXISTING FENCE
xxx	PROPOSED FENCE
	EXISTING GUARDRAIL
	PROPOSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
	EXISTING EDGE OF ASPHALT
	PROPOSED SIDEWALK
	PROPOSED TRAIL
	PROPOSED GRAVEL PER ECM TABLE D-7
	RIPRAP OUTFALL PADS
	EXISTING SIGN
0	PROPOSED SIGN
•	PROPOSED BOLLARDS
-	FROFUSED BOLLARDS
UTILITY LEGEND	
W	
W	PROPOSED WATER LINE
	EXISTING SANITARY SEWER
SS	PROPOSED SANITARY SEWER
= s <u>D</u> = - <u>s</u> D = - <u>-</u> <u>s</u> D = =	EXISTING STORM SEWER
SD SD SD SD	PROPOSED STORM SEWER
— — — G— — —	EXISTING GAS LINE
G	PROPOSED GAS LINE
	EXISTING UNDERGROUND TELEPHONE
OHE	EXISTING OVERHEAD ELECTRIC
	EXISTING FIBER OPTIC LINE
FO	EXISTING FIBER OPTIC STRUCTURES
TL	EXISTING TELEPHONE PEDESTAL
TR	EXISTING ELECTRIC TRANSFORMER
- ` Q	EXISTING POWER POLE
¢	EXISTING STREET LIGHT
e	PROPOSED STREET LIGHT
۲	PROPOSED WATER METER
×	EXISTING WATER VALVE
M	PROPOSED WATER VALVE
Ţ,	EXISTING FIRE HYDRANT
***	PROPOSED FIRE HYDRANT
SD	EXISTING STORM SEWER MANHOLE
	PROPOSED STORM SEWER MANHOLE
©	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE

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THE SOUTHWEST CORNER OF LOT 1 WODDMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

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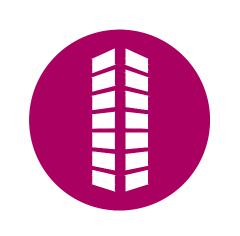


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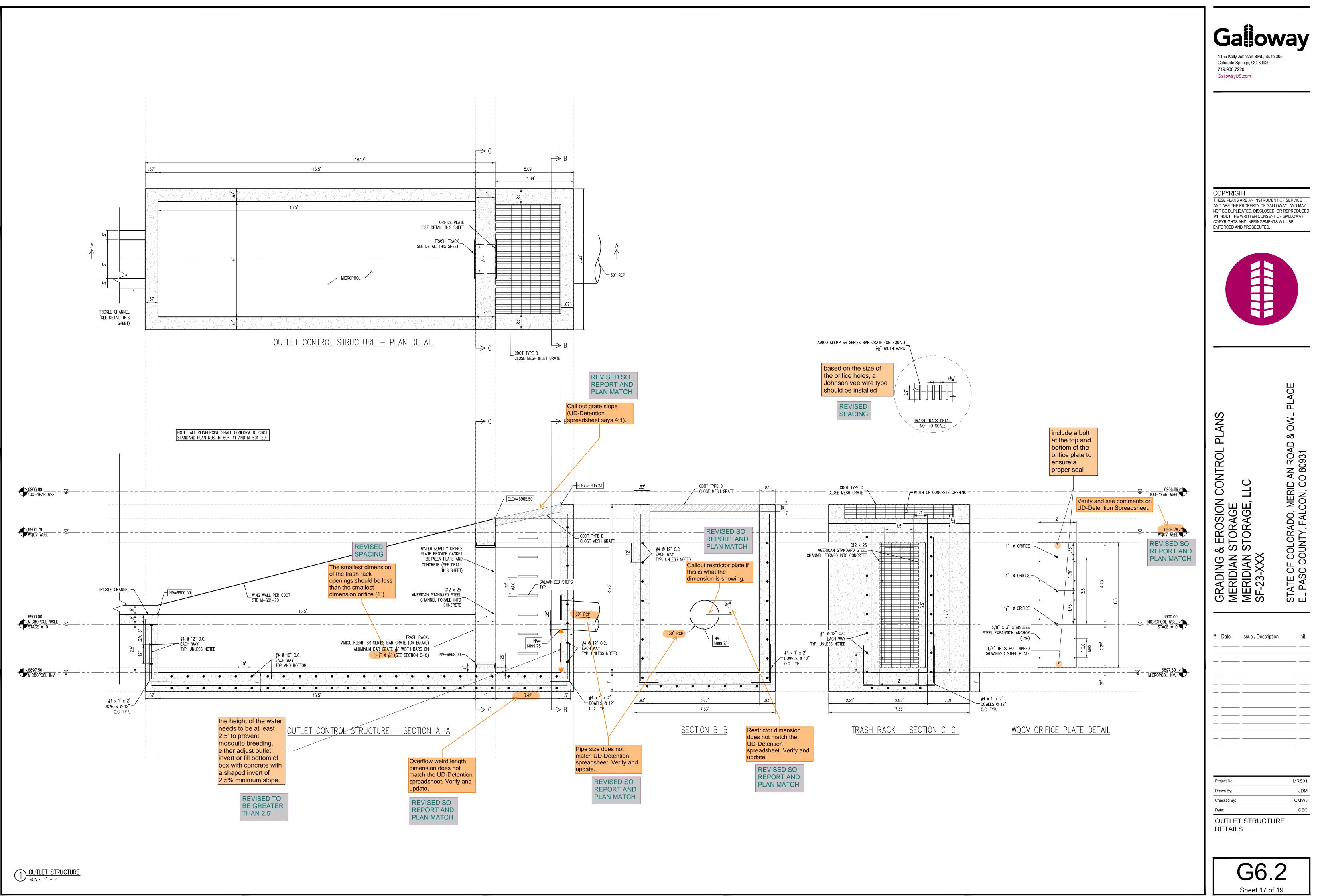


GRADING & EROSION CONTROL PLANS	SF-Z3-XXX
MERIDIAN STORAGE	STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
MERIDIAN STORAGE, LLC	EL PASO COUNTY, FALCON, CO 80931
# Date Issue / I <tr td=""> <tr td=""></tr></tr>	Description Init.

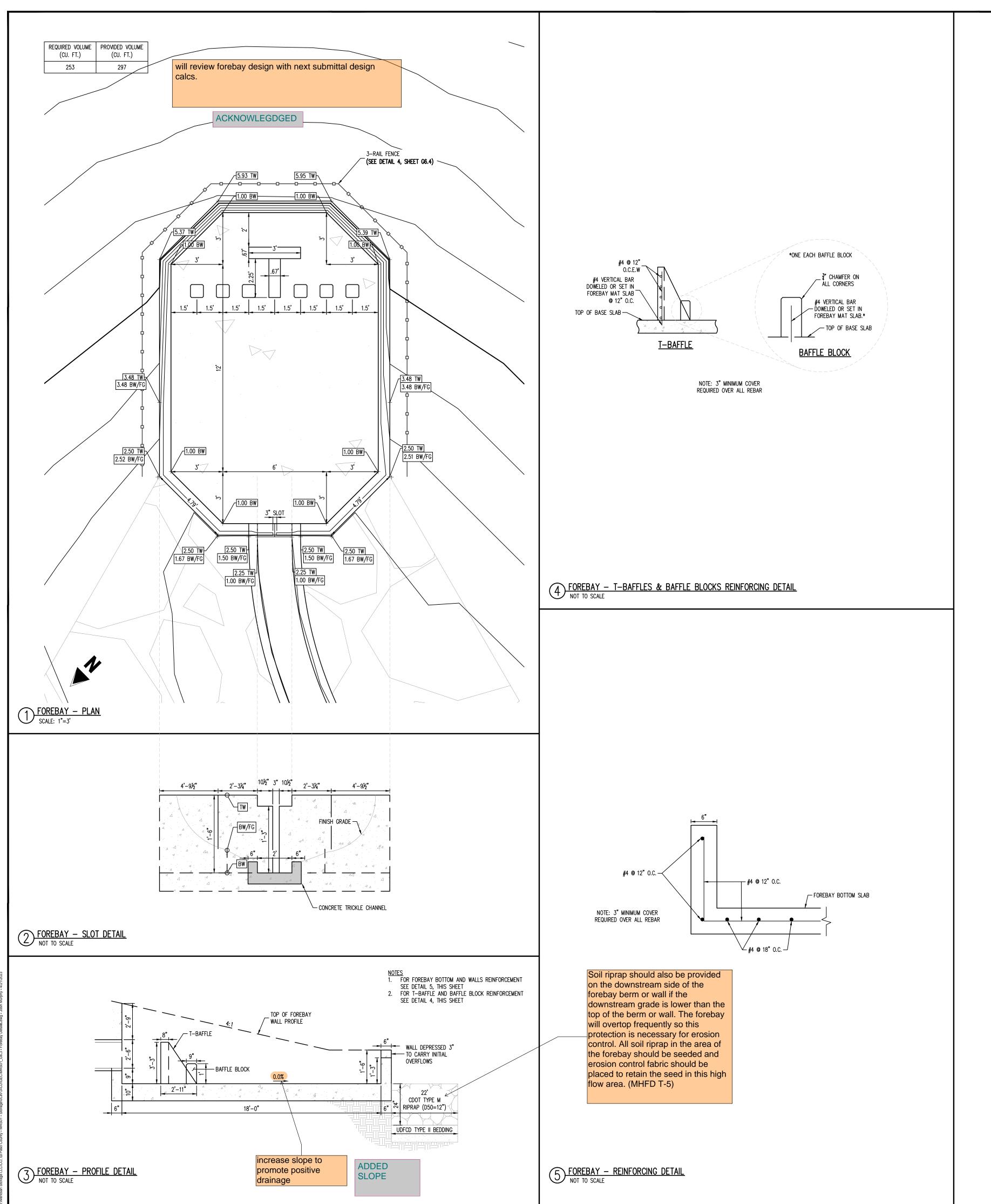
Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	GEC

POND PLAN & PROFILE





Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
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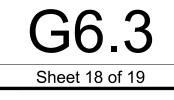
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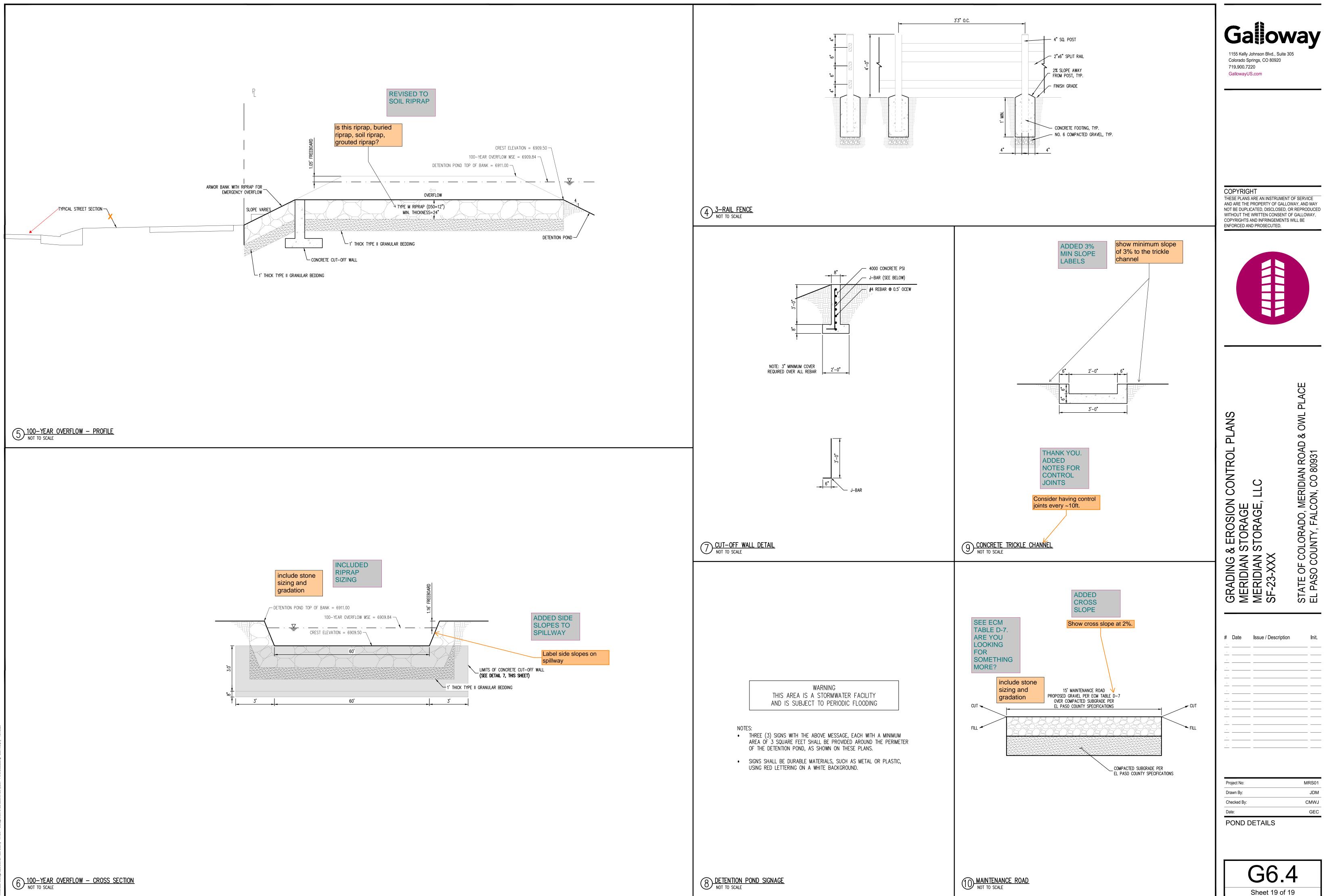
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# Date 	Issue / Description		Init.
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Project No:		М	RS01
Drawn By: Checked By:			JDM
Date:			GEC

FOREBAY DETAILS





Storage LLC/CO, EI Paso County - MRS01 - Storage/0CIV/3-CD/GEC/MRS01_G6.4 - Pond Details.dwg - Josh Murphy - 4/21/202