# **GRANDVIEW RESERVE DISTRICT WATER TREATMENT PLANT CONSTRUCTION DOCUMENTS** COUNTY OF EL PASO, STATE OF COLORADO **GRADING AND EROSION CONTROL PLAN**

## GENERAL CONSTRUCTION NOTES:

- CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE CALL SERVICE 811 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
- 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 CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR INTERFERENCE OR DELAY CAUSED BY REPAIRS FOR DAMAGED UTILITIES.
- 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.
- CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.
- CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND

CITY/WHMD/OWNER PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ECT. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

- CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS REPORTS, AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
- 8. SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.
- STORM SEWERS, CULVERTS, AND DITCHES: CONTRACTOR SHALL MONITOR THE WEATHER AND MAINTAIN STORM WATER FLOW AT ALL TIMES AND SHALL SCHEDULE REMOVALS SUCH THAT WET WEATHER AND RAIN EVENTS WILL NOT CREATE DAMAGING BACKUPS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FLOW DIVERTING AND/OR BYPASS PUMPING AS NECESSARY TO FACILITATE CONSTRUCTION. THE COST FOR MAINTAINING, DIVERTING, OR PUMP STORM FLOWS SHALL BE INCIDENTAL TO THE PROJECT.
- 10. CONTRACTOR TO MAINTAIN A MAXIMUM CONSTRUCTION EASEMENT WIDTH OF 24 FEET

# **EL PASO COUNTY GRADING AND EROSION CONTROL SHEETS:**

- 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 POLI UTION OF ANY ON-SITE OR OFF-SITE WATERS. INCLUDING WETLANDS.
- 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 FL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 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 FROSION 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.
- 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.
- 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
- 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
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY 23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. 24. 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 FOLIIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED, ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- 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 FEFECTIVELY MINIMIZE ACCELERATED SOIL FROSION 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, SUCH WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE. 15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON
- SLOPES STEEPER THAN 3:1. 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
- 17 WASTE MATERIALS SHALL NOT BE TEMPORABILY 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

DISCHARGED AT THE SITE.

- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. 18 MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL 19 CONSTRUCTION DEBRIS DIRT TRASH ROCK SEDIMENT SOIL AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- 20 THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED AS MUCH AS PRACTICAL. TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED
- 22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- 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.
- 25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- 26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES
- 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 DATED MARCH 14. 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 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:

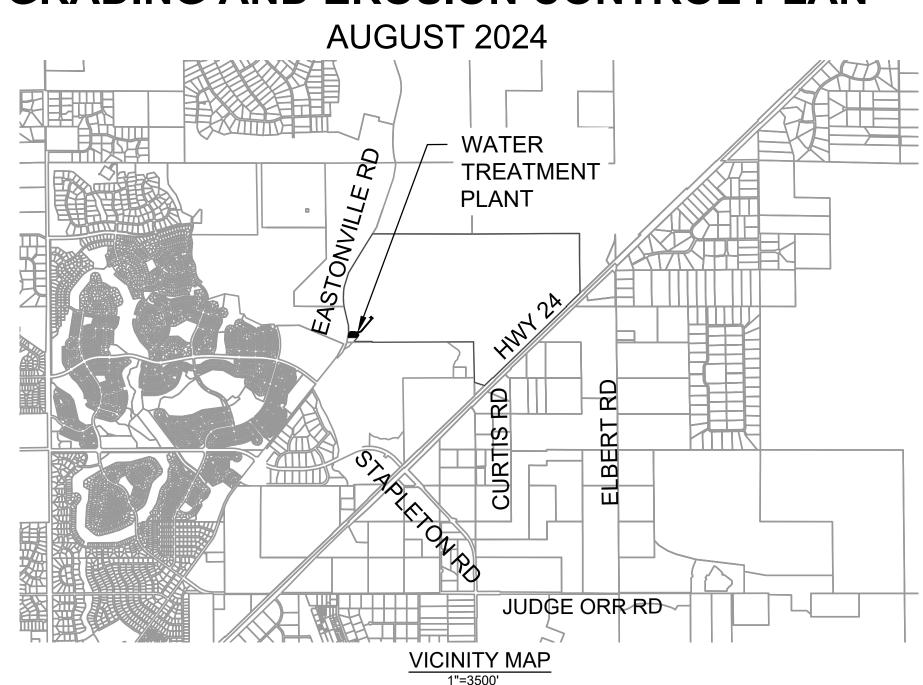
COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION

WQCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH

DENVER, CO 80246-1530 ATTN: PERMITS UNIT

SEND MUD MAT SPECIFICATION TO MIKAYLA HARTFORD AT MIKAYLAHARTFORD@ELPASO.COM TO ENSURE MUD MAT USE IS ACCEPTABLE IN EL PASO COUNTY.

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**VERTICAL DATUM: NAVD88** 

BASIS OF BEARINGS: THE EAST LINE OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4' ALUMINUM SURVEYORS CAP STAMPED ACCORDINGLY, PLS 30067, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4' ALUMINUM SURVEYORS CAP STAMPED ACCORDINGLY, PLS 30087, BEING ASSUMED TO BEAR N00°52'26"W, A DISTANCE OF 5290.17 FEET.

SHEET NO.
C100
C104
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# EL PASO COUNTY STANDARD CONSTRUCTION NOTES:

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- 1. 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 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE PASO COUNTY ENGINEERING CRITERIA MANUAL
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD 2. 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 COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE 3. 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:
  - a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM) b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
  - c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD
  - SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION d. CDOT M & S STANDARDS
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE. THE ENGINEERING CRITERIA MANUAL. THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE 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
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL 6 PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT

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(PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.

- 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 PERMITS.
- 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.
- ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY DSD.
- 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 GUTTER AND PAVEMENT.
- 11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION 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.

#### **PROJECT CONTACTS:**

#### OWNER/DEVELOPER

D.R. HORTON 9555 S. KINGSTON COURT, SUITE 200 ENGELWOOD, CO 80112 TELE: (303) 488-0061 ATTN: RILEY HILLEN, PE AND BRYAN REID, PE EMAIL: RHILLEN@DRHORTON.COM AND BAREID1@DRHORTON.COM

#### APPLICANT

HR GREEN 5613 DTC PARKWAY | SUITE 950 GREENWOOD VILLAGE, CO 80111 TELE:(720) 602-4999 ATTN: GREGORY PANZA P.E. EMAIL: GPANZA@HRGREEN.COM

#### **CIVIL ENGINEER**

HR GREEN 5613 DTC PARKWAY | SUITE 950 GREENWOOD VILLAGE, CO 80111 TELE: (720) 602-4999 ATTN: GREGORY PANZA P.E. EMAIL: GPANZA@HRGREEN.COM

#### GEOTECHNICAL ENGINEER COMPANY: CTL | THOMPSON ADDRESS: 5170 MARK DABLING BLVD

TELE: (719) 528-8300 ATTN: JEFF JONES

### TRAFFIC ENGINEER

LSC TRANSPORTATION CONSULTANTS INC. 2504 EAST PIKES PEAK AVENUE, SUITE 304 COLORADO SPRINGS, CO 80909 TELE: &719) 633-2868 ATTN: JEFFREY C. HODSON, P.E. EMAIL: LSC@LSCTRANS.COM

#### SURVEYOR

EDWARD-JAMES SURVEYING, INC. 926 ELKTON DRIVE COLORADO SPRINGS, CO 80907 TELE: (719) 576-1216 ATTN: JONATHAN W. TESSIN EMAIL: JTESSIN@EJSURVEYING.COM

# **APPROVALS**:

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

#### ENGINEER OF RECORD SIGNATURE

OWNER'S STATEMENT (FOR STANDALONE GEC PLAN): I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PI AN

#### **OWNER'S SIGNATURE**

COUNTY PROJECT ENGINEER SIGNATURE

GRANDVIEW RESERVE					
D.R. HC	DRTON, CO				
EL PASO	COUNTY, COLORADO				

COLORADO SPRINGS, CO 80918

EMAIL: COLORADOSPRINGS@CTLTHOMPSON.COM

DATE

DATE

EL PASO COUNTY (STANDALONE GEC PLAN):

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. II IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN

THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION

DATE

**EROSION AND GRADING CONTROL PLANS** 

**COVER SHEET** 

### **UTILITY CONTACTS**

**GRANDVIEW RESERVE METROPOLITAN DISTRICT** 1272 KELLY JOHNSON BLVD. SUITE 100 COLORADO SPRINGS, CO 80921 TELE: (719 499-8416 ATTN: PAUL HOWARD EMAIL: PAULINFINITY1@MSN.COM

WASTEWATER / WATER WOODMEN HILLS METRO DISTRICT 8046 EASTONVILLE ROAD FALCON, CO 80831 TELE: (719) 495-2500 CONTACT: CODY RITTER EMAIL: CODY@WHMD.ORG

ELECTRIC / FIBER MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN RD. FALCON, CO 80831 TELE: (800) 388-9881 ATTN: GINA PERRY EMAIL: GINA.P@MVEA.COOP

NATURAL GAS BLACK HILLS ENERGY 198 COUNTY LINE RD. PALMER LAKE, CO 80133 TELE: (719) 332-5856 ATTN: BOB SWATEK EMAIL: BOB.SWATEK@BLACKHILLSCORP.COM

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

COMMUNICATIONS CENTURY LINK ZAYO USWEST

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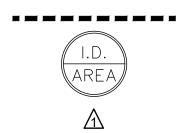
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#### DRY UTILITIES

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#### MISCELLANEOUS

SIGN BOLLLARD ACCESSIBLE PARKING -0-

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CONCRETE WASHOUT AREA

CONSTRUCTION FENCE

DIVERSION DITCH

(IP) INLET PROTECTION

VTC VEHICLE TRACKING CONTRC

(SSA) STABILIZED STAGING AREA

LOC LIMITS OF CONSTRUCTION /DISTURBANCE

(SM) SEEDING AND MULCHING

SB ) SEDIMENT BASIN

(SR) SURFACE ROUGHENING

(ECB) EROSION CONTROL BLANKE

CIP CULVERT INLET PROTECTIO

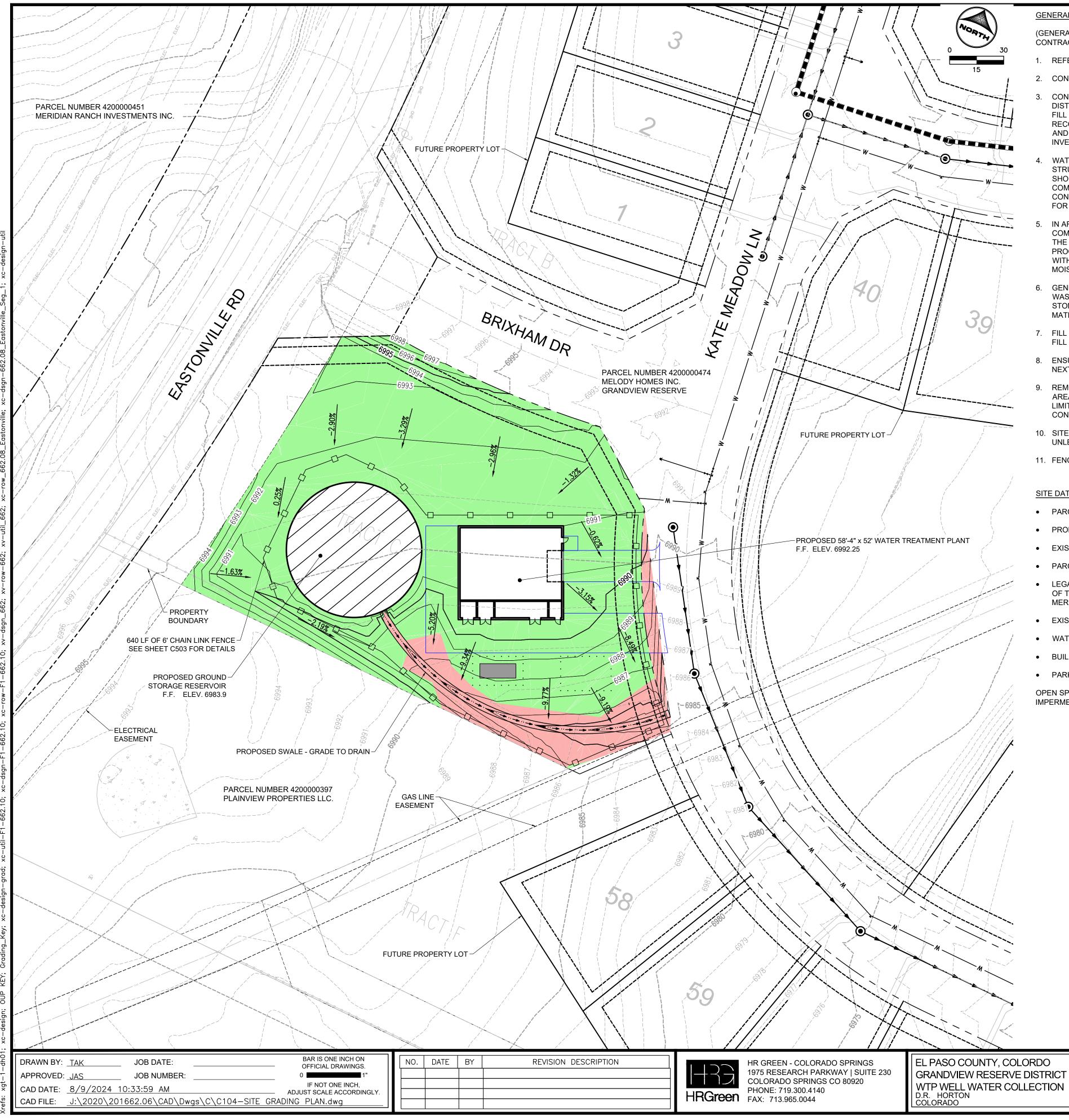
(SBB) STRAW BALE BARRIER



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#### GENERAL NOTES:

(GENERAL NOTES CONTAIN EXCERPTS FROM THE GEOTECHNICAL REPORT THAT ARE IN NO WAY MEANT TO RELIEVE CONTRACTOR FROM INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT.)

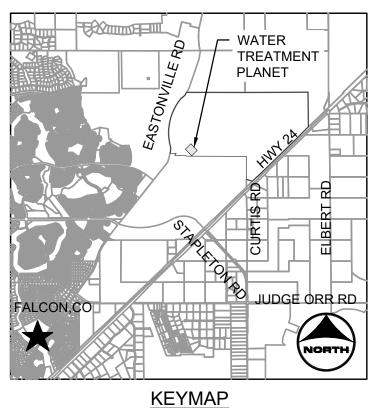
- 1. REFER TO SHEET S.000 FOR ADDITIONAL GEOTECHNICAL REQUIREMENTS.
- 2. CONTRACTOR SHALL COMPLY WITH SPECIFICATION SECTION 31 5000 FOR SUPPORTS AND PROTECTION.
- CONTRACTOR SHALL COMPLY WITH TECHNICAL SPECIFICATIONS AND WOODMENHILLS METROPOLITAN DISTRICT WATER AND WASTEWATER STANDARD SPECIFICATIONS FOR DEWATERING, GRADING, EXCAVATION, FILL AND BACKFILL, AND TRENCHING. SEE GEOTECHNICAL INVESTIGATION REPORT FOR EARTHWORK RECOMMENDATIONS. INSTALL EARTHWORK ACCORDING TO WOODMENHILLS METROPOLITAN DISTRICT WATER AND WASTEWATER STANDARD SPECIFICATIONS AND RECOMMENDATIONS FROM THE GEOTECHNICAL INVESTIGATION REPORT.
- WATER LEVELS WERE OBSERVED WITHIN THE DEPTHS OF PLANNED EXCAVATION FOR THE PROPOSED STRUCTURES. DEWATERING WILL BE REQUIRED WHERE SEEPAGE IS ENCOUNTERED. GROUNDWATER LEVELS SHOULD BE MAINTAINED AT LEAST TWO FEET BELOW BOTTOM OF EXCAVATION UNTIL FOUNDATION SLABS ARE COMPLETED. THE CONTRACTOR IS RESPONSIBLE FOR EMPLOYING APPROPRIATE DEWATERING METHODS TO CONTROL SEEPAGE INTO THE EXCAVATION. SEE GEOTECHNICAL REPORT AND SPECIFICATION SECTION 31 2319 FOR MORE INFORMATION ON DEWATERING.
- IN AREAS TO ACCEPT FILL, THE TOP 12 INCHES OF THE GROUND SURFACE SHALL BE SCARIFIED AND COMPACTED TO ELIMINATE A PLANE OF WEAKNESS ALONG THE CONTACT SURFACE. EACH LIFT PLACED ABOVE THE FOUNDATION LEVEL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE SOIL'S STANDARD PROCTOR DENSITY (ASTM D698). THE MOISTURE CONTENT OF THE COHESIVE SOILS SHOULD BE MAINTAINED WITHIN A RANGE OF 0 PERCENT BELOW TO 4 PERCENT ABOVE THE MATERIALS STANDARD PROCTOR OPTIMUM MOISTURE CONTENT.
- GENERAL FILL MATERIAL TO COMPLY WITH WOODMENHILLS METROPOLITAN DISTRICT WATER AND WASTEWATER STANDARD SPECIFICATIONS AND SHALL BE FREE OF FOREIGN SUBSTANCE, DEBRIS, LARGE STONES, ROCKS, ROOTS, ORGANIC OR FROZEN MATERIAL, EXPANSIVE MATERIAL AND OTHER DELETERIOUS MATERIALS. UNSUITABLE SOILS SHALL BE DISPOSED OF BY THE CONTRACTORS.
- 7. FILL SHALL NOT BE FROZEN AND SHALL NOT BE PLACED ON A FROZEN SURFACE. ALL COHESIVE SOILS USED AS FILL AT THIS SITE SHALL HAVE A MAXIMUM LIQUID LIMIT OF 45 AND A MAXIMUM PLASTICITY INDEX OF 20.
- 8. ENSURE THAT PREVIOUSLY COMPACTED LIFTS ARE SCARIFIED 2 INCHES DEEP PRIOR TO COMPACTING THE NEXT LIFT.
- REMOVE, STOCKPILE, AND REPLACE NATIVE MATERIAL 8 INCHES (TOP SOIL) BELOW EXISTING SURFACE FOR ALL AREAS DISTURBED (NOT SURFACED WITH GRAVEL, RIPRAP, OR OTHER DESIGNATED MATERIALS) WITHIN THE LIMITS OF CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR TOPSOIL OR MATERIAL THAT THE CONTRACTOR NEEDS TO IMPORT FROM OFFSITE. SEE SHEET X.XXX FOR ADDITIONAL STOCKPILING NOTES.
- 10. SITE GRADING SHALL PROVIDE FOR POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND FOUNDATIONS UNLESS NOTED OTHERWISE.
- 11. FENCING SHALL COMPLY WITH SPECIFICATION SECTION 32 3119. SEE TYPICAL DETAILS.

#### SITE DATA:

- PARCEL: 4200000474
- PROPERTY ADDRESS: PLAT #SF2311 TRACT C
- EXISTING ZONING: PUD, RR-2.5
- PARCEL SIZE: 176.7 ACRES
- LEGAL DESCRIPTION: A TRACT OF LAND BEING IN THE SOUTHWEST QUARTER OF SECTION 21, AND A PORTION OF THE NORTHWEST QUARTER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, COLORADO
- EXISTING LAND USE IS UNDEVELOPED/NATURAL CONDITIONS
- WATER TREATMENT PLANT LOT AREA: 1.04 ACRES
- BUILDING: 3033 SF (7451 SF WITH TANK)
- PARKING WILL BE FOR MAINTENANCE ONLY

OPEN SPACE/LANDSCAPING - 73.1% IMPERMEABLE SURFACE - 26.1%





### PROJECT LEGEND:

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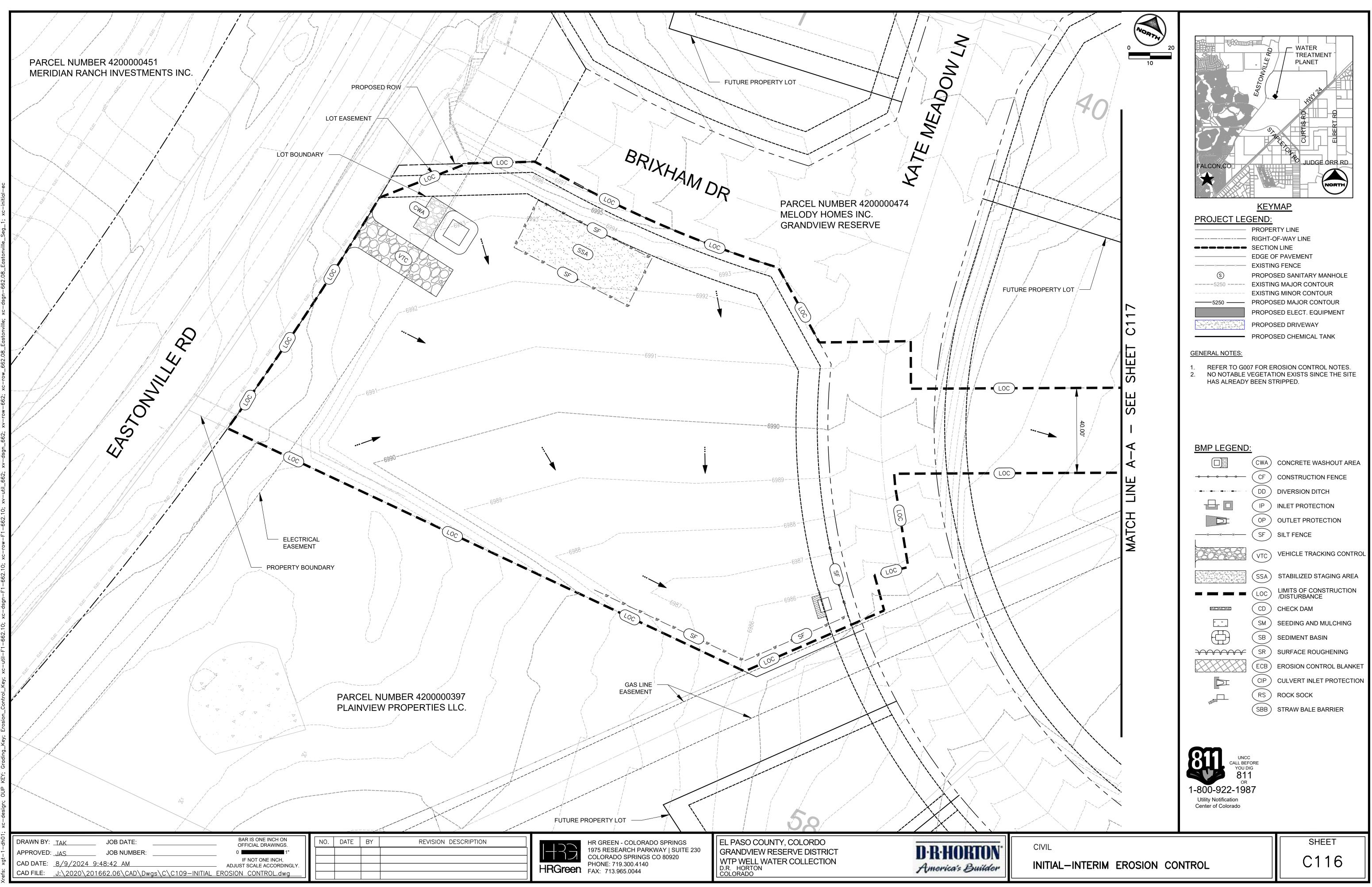
PROPERTY LINE **RIGHT-OF-WAY LINE** SECTION LINE EDGE OF PAVEMENT EXISTING FENCE PROPOSED SANITARY MANHOLE EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR PROPOSED ELECT. EQUIPMENT PROPOSED DRIVEWAY LIMITS OF CONSTRUCTION

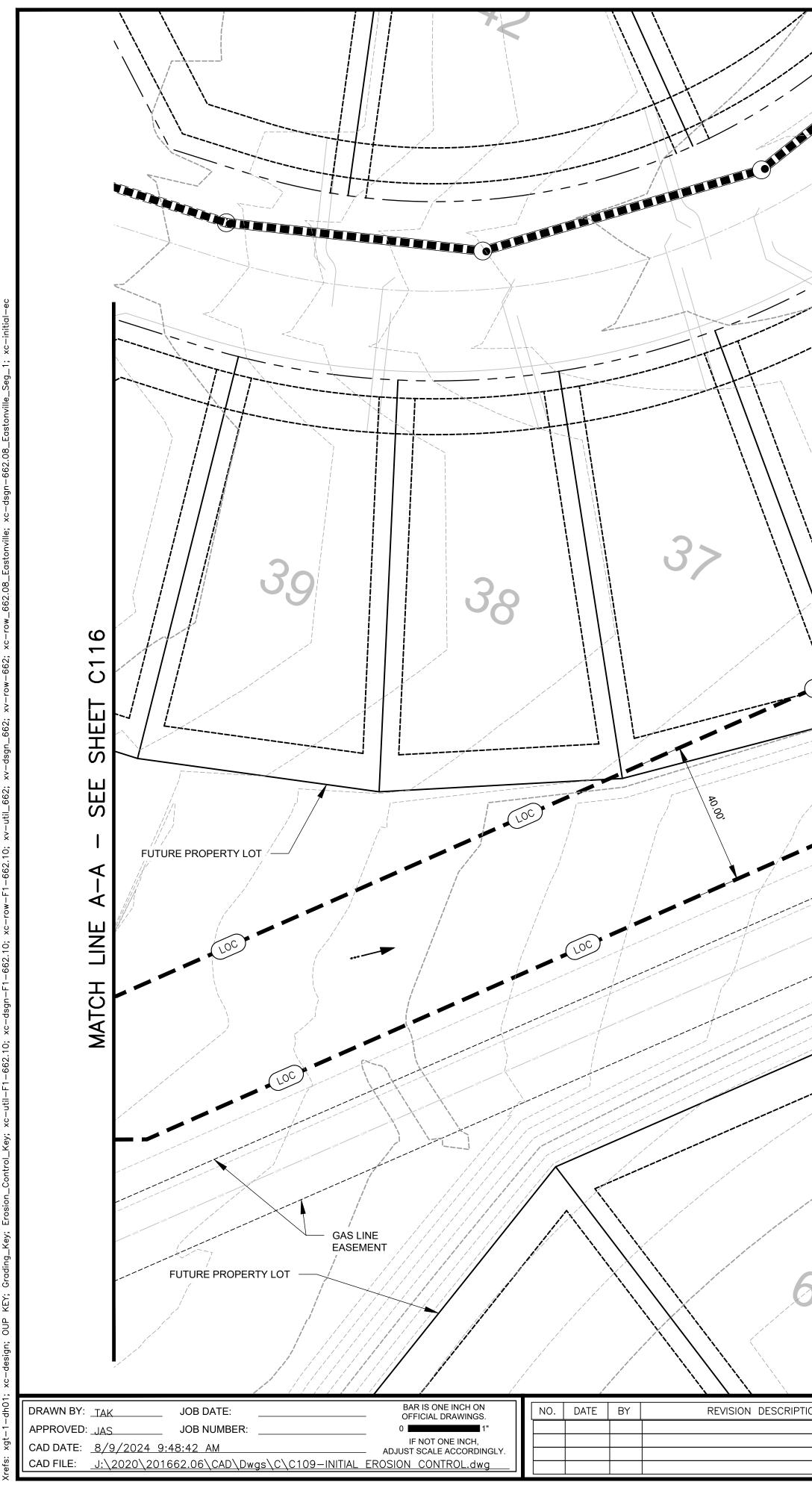
CUT AREA

FILL AREA

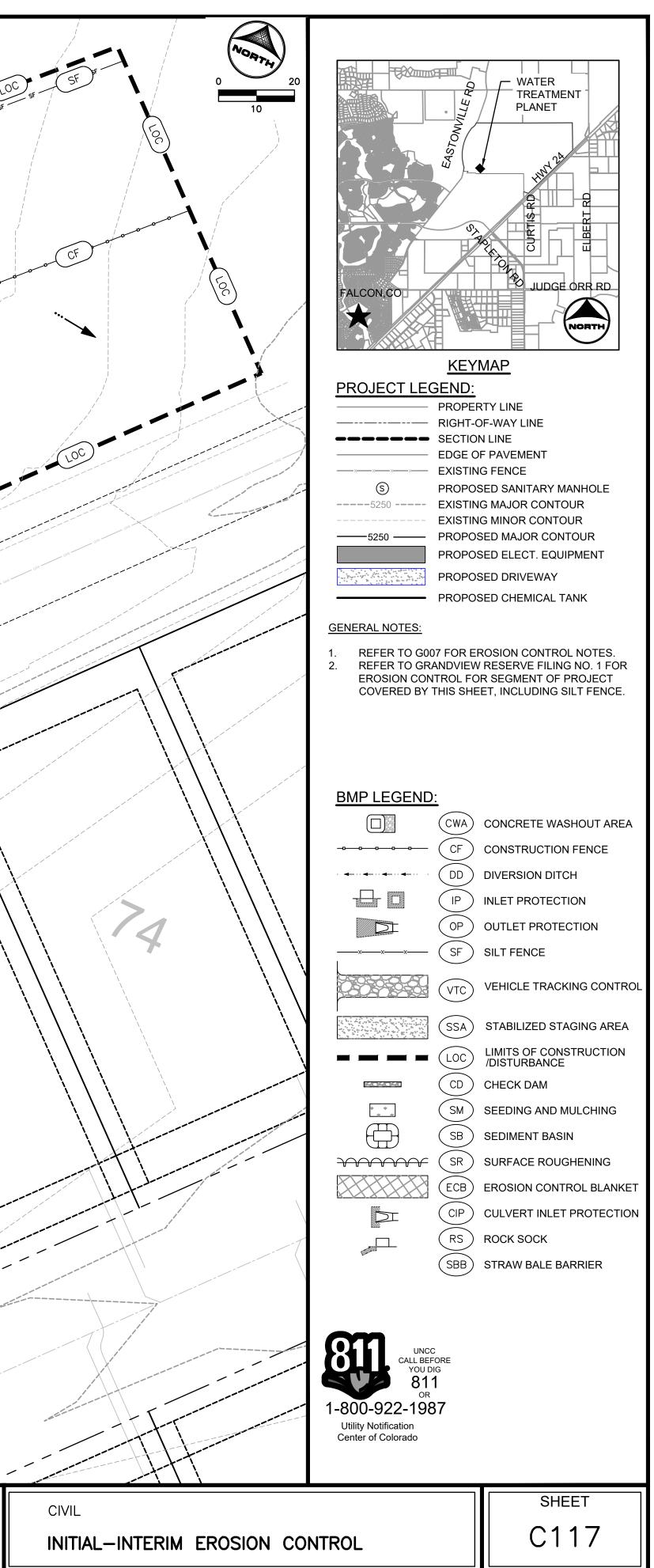


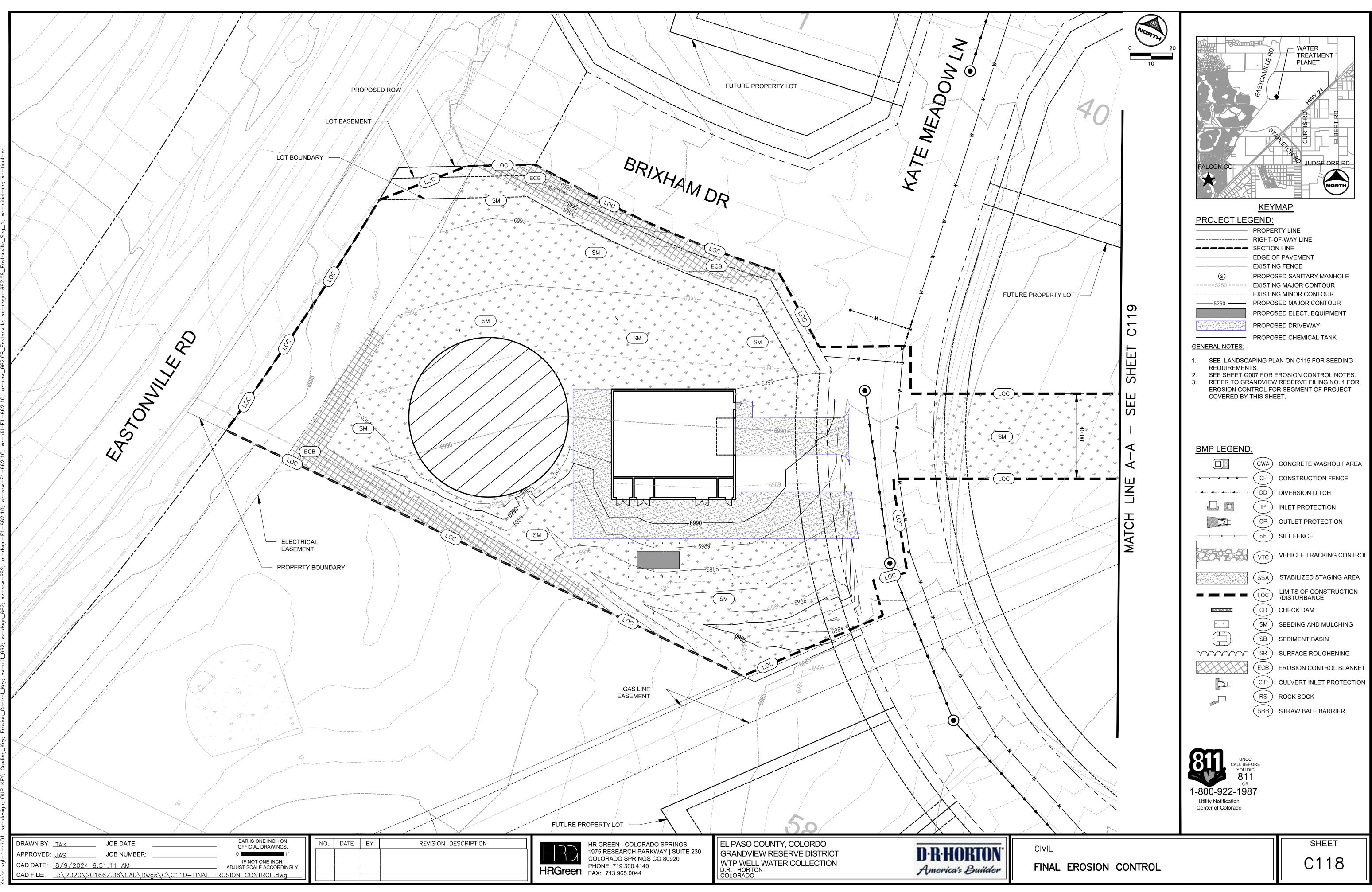
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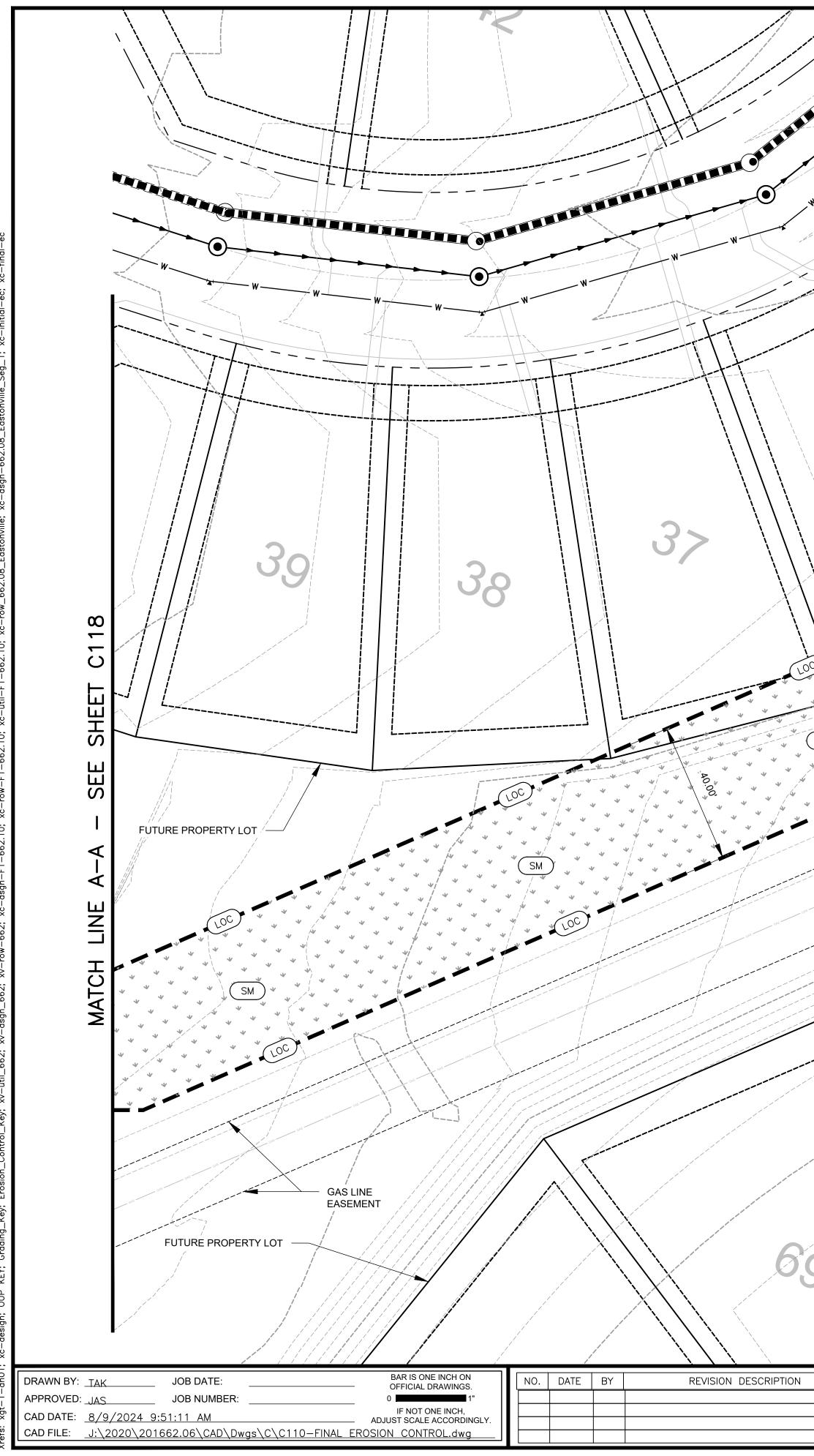




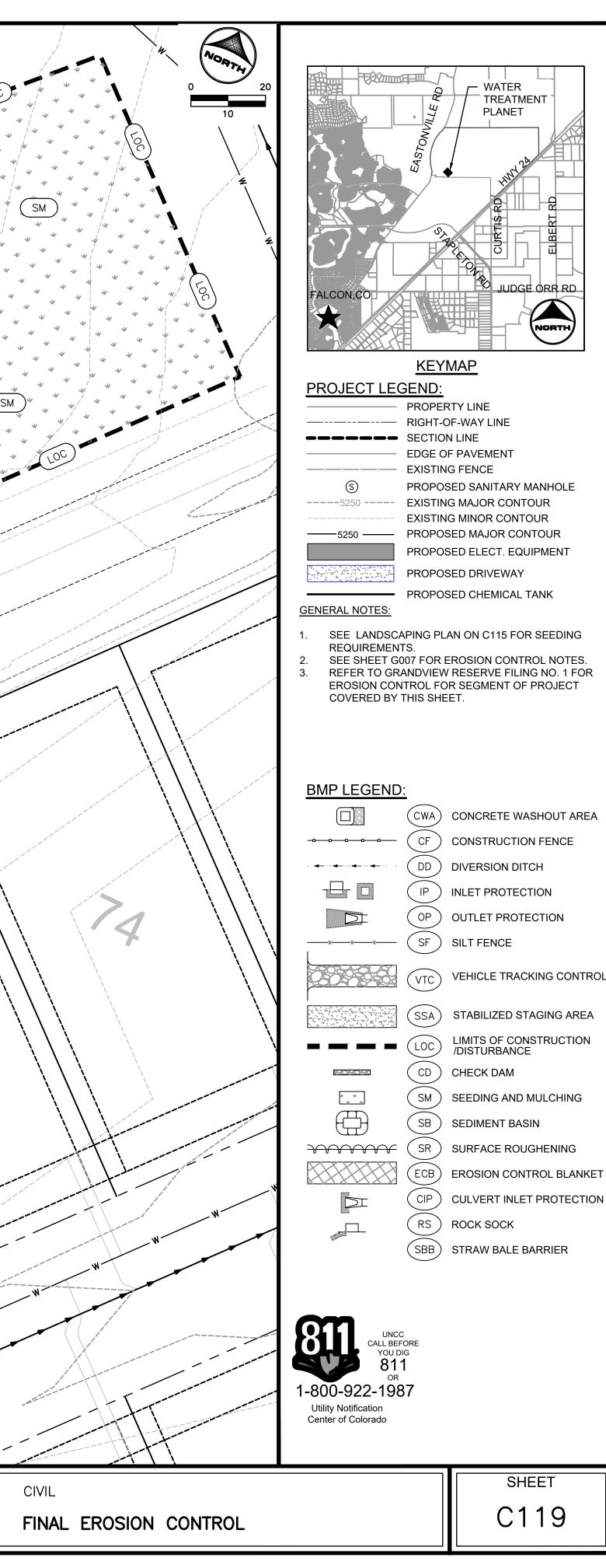
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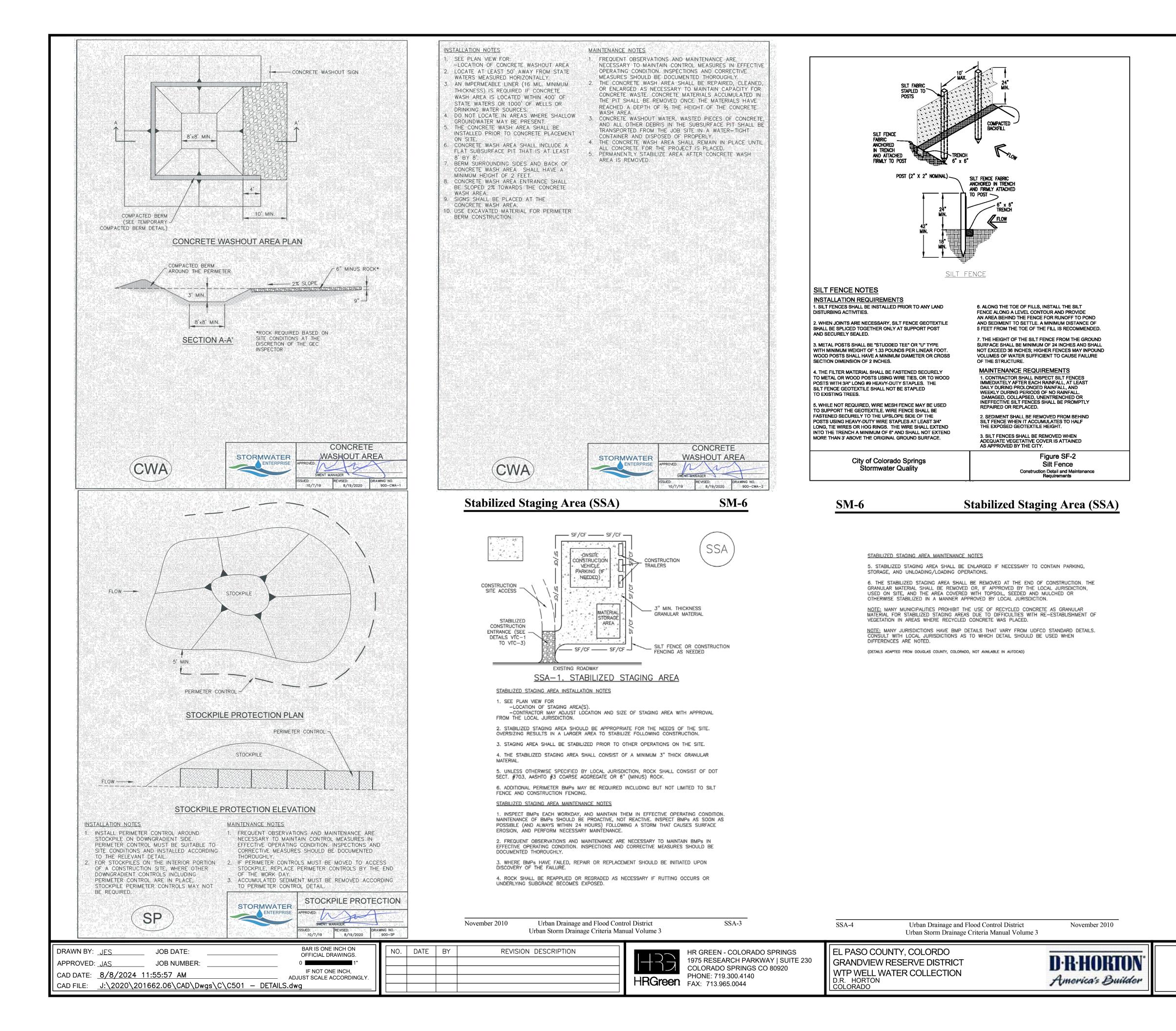


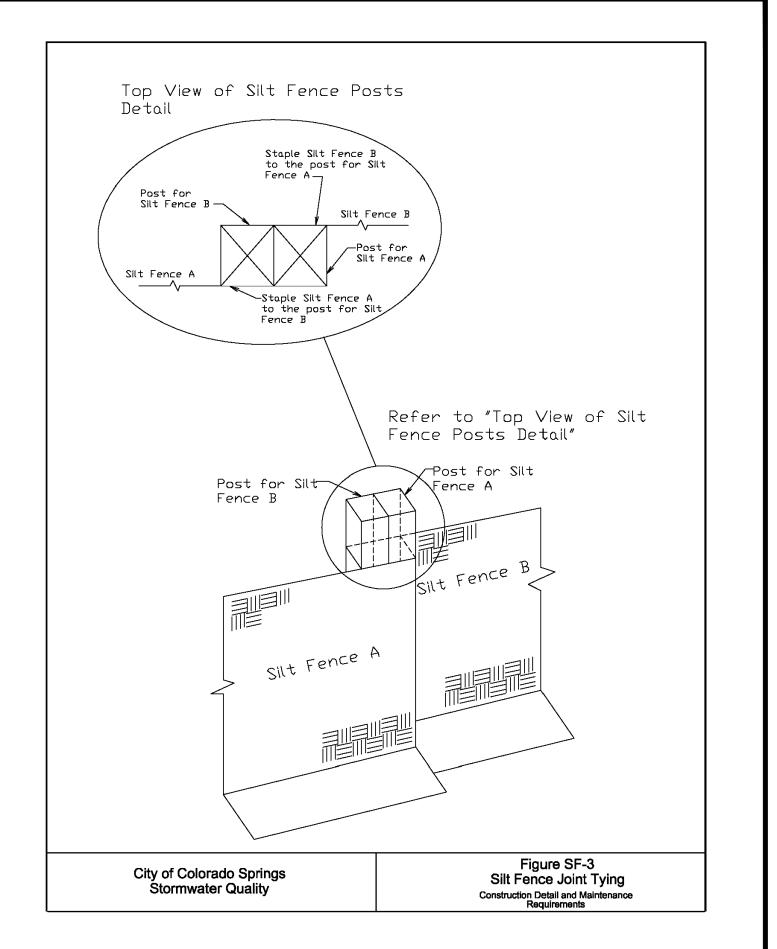


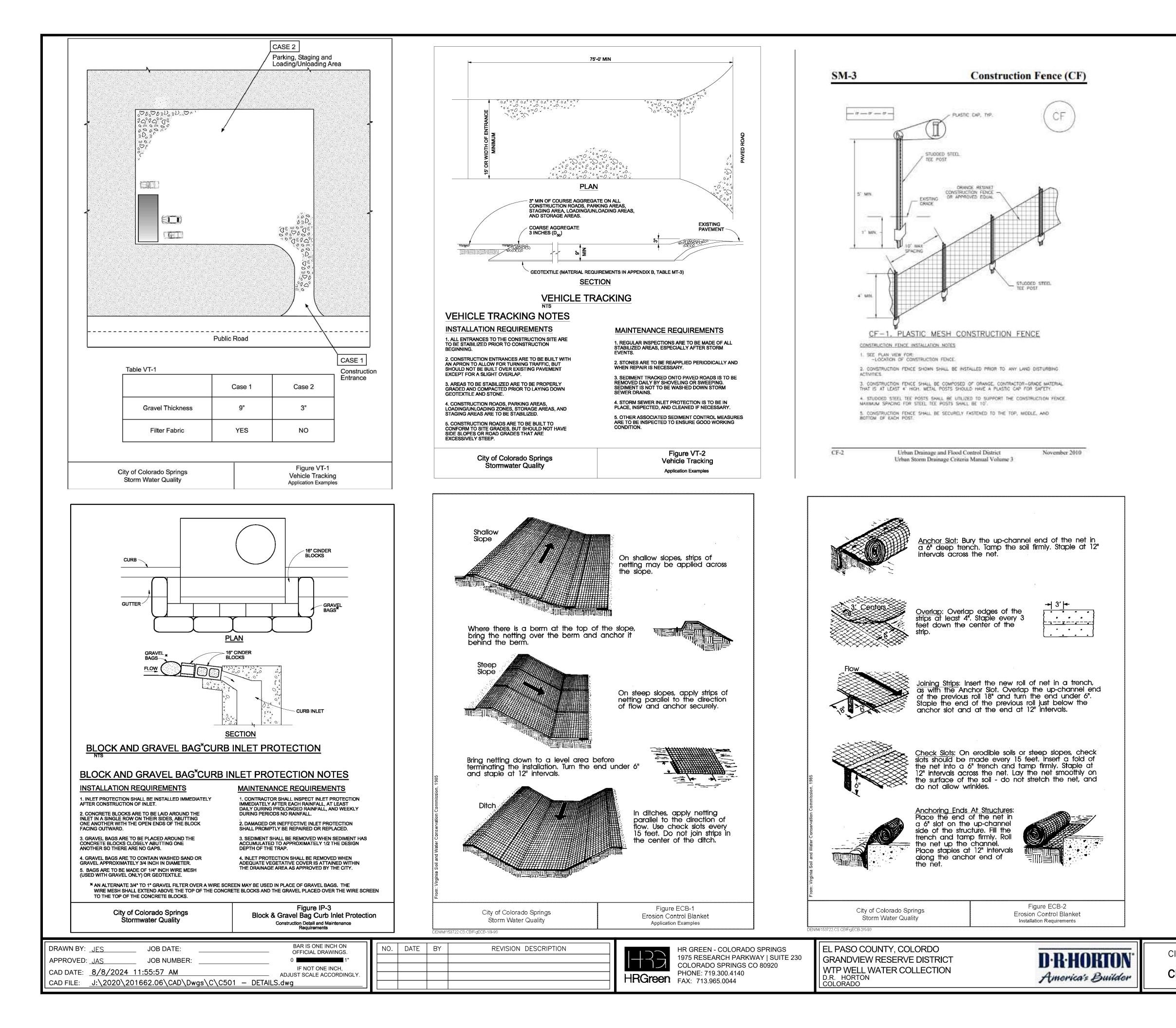


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HR GREEN - COLORADO SPRINGS 1975 RESEARCH PARKWAY   SUITE 230 COLORADO SPRINGS CO 80920 PHONE: 719.300.4140 FAX: 713.965.0044	EL PASO COUNTY, COLORDO GRANDVIEW RESERVE DISTR WTP WELL WATER COLLECTI D.R. HORTON COLORADO		R.HORTON America's Builder









CONSTRUCTION FENCE MAINTENANCE NOTES 1. INSPECT BMP8 EACH WORKBAY, AND MAINTAIN THEM IN EFFECTIVE O MAINTENANCE OF BMP8 SHOULD BE PROACTIVE, NOT REACTIVE INSPECT POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT EROSION, AND PERFORM NECESSARY MAINTENANCE. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MA EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASU DOCUMENTED THOROUGHLY. 3. WHERE BMP8 HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE IN DISCOVERY OF THE FAILURE. 4. CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THE	
DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOC 5. WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL B TOPSORI, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROV JURISDICTION. NOTE: MAINT JURISDICTIONS HAVE BMP DETAILS THAT YARY FROM UDFCC CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE DIFFERENCES ARE NOTED. (DETAIL ADAPTED THEN TOWN OF PARKER, COLORIDO, NOT MAILABLE IN ALITICAD)	UNTAIN BIMPY IN IRES SHOULD BE NITLATED UPON ERE ARE SIGNS OF I IN PLACE UNTIL THE IAL JURISEICTION. ASSOCIATED WITH THE BE COVERED WITH THE BE COVERED WITH THE D STANDARD OFTAILS.
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3	CF-3
<ul> <li>ALL SOIL TESTING, SOILS AMENDMENT AND FERTILIZER DOCUMENTATION, AND MUST BE ADDED TO THE CSWMP.</li> <li>SOIL PREPARATION</li> <li>1. IN AREAS TO BE SEEDED, THE UPPER 6 INCHES OF THE SOIL MUST NOT SHOULD BE IN FRIABLE CONDITION. LESS THAN 85% STANDARD PROCTOR OF COMPACTION OR GENERAL CONSTRUCTION ACTIVITY MUST BE SCARIFIE INCHES PRIOR TO SPREADING TOPSOIL TO BREAK UP COMPACTED LAYERS BETWEEN DIFFERENT SOIL LAYERS.</li> <li>2. AREAS TO BE PLANTED SHALL HAVE AT LEAST 4 INCHES OF TOPSOIL SU GROWTH.</li> <li>3. THE CITY RECOMMENDS THAT EXISTING AND/OR IMPORTED TOPSOIL BE TE DEFICIENCIES AND ANY SOIL AMENDMENTS NECESSARY TO ADDRESS THES AND/OR FERTILIZERS SHOULD BE ADDED TO CORRECT TOPSOIL DEFICIENC RESULTS.</li> <li>4. TOPSOIL SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD TO RECOMPACTION, AND TO PREVENT EROSION AND CONTAMINATION. STRIPPED</li> </ul>	BE HEAVILY COMPACTED, AND DENSITY IS ACCEPTABLE AREAS D TO A DEPTH OF 6 TO 12 S AND PROVIDE A BLENDING ZONE JITABLE TO SUPPORT PLANT ESTED TO IDENTIFY SOIL SE DEFICIENCIES. SOIL AMENDMENTS JES BASED ON SOIL TESTING ETAIN ITS STRUCTURE AVOID
AREA AWAY FROM MACHINERY AND CONSTRUCTION OPERATIONS, AND CAN THE TOPSOIL AS A VALUABLE COMMODITY. TOPSOIL MUST NOT BE STRIPP CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED IN SWALES OR IN AREAS WITH POOR DRAINAGE. SEEDING 1. ALLOWABLE SEED MIXES ARE INCLUDED IN THE CITY OF COLORADO SPRIN MANUAL. ALTERNATIVE SEED MIXES ARE ACCEPTABLE IF INCLUDED IN AN 2. SEED SHOULD BE DRILL-SEEDED WHENEVER POSSIBLE • SEED DEPTH MUST BE ½ TO ½ INCHES WHEN DRILL-SEEDING IS USED 3. BROADCAST SEEDING OR HYDRO-SEEDING WITH TACKIFIER MAY BE SUBST 3.1 OR ON OTHER AREAS NOT PRACTICAL TO DRILL SEED • SEEDING RATES MUST BE DOUBLED FOR BROADCAST SEEDING OR INCRE, DRILL OR HYDRO-SEEDING • BROADCAST SEEDING MUST BE LIGHTLY HAND-RAKED INTO THE SOIL	RE MUST BE TAKEN TO PROTECT PED DURING UNDESIRABLE WORKING )). TOPSOIL SHALL NOT BE STORED IGS STORMWATER CONSTRUCTION APPROVED LANDSCAPING PLAN.
<ul> <li>MULCHING</li> <li>MULCHING SHOULD BE COMPLETED AS SOON AS PRACTICABLE AFTER SEE MUST BE MULCHED NO LATER THAN 14 DAYS AFTER PLANTING.</li> <li>MULCHING REQUIREMENTS INCLUDE:</li> <li>HAY OR STRAW MULCH</li> <li>ONLY CERTIFIED WEED-FREE AND CERTIFIED SEED-FREE MULCH MAY APPLIED AT 2 TONS/ACRE AND ADEQUATELY SECURED BY CRIMPING</li> <li>CRIMPING MUST NOT BE USED ON SLOPES GREATER THAN 3:1 AND INTO THE SOIL TO A DEPTH OF 3 TO 4 INCHES.</li> <li>TACKIFIER MUST BE USED IN PLACE OF CRIMPING ON SLOPES STEEF</li> <li>HYDRAULIC MULCHING</li> <li>HYDRAULIC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE</li> <li>IF HYDRO-SEEDING IS USED, MULCHING MUST BE APPLIED AS A SEI</li> <li>WOOD CELLULOSE FIBERS MIXED WITH WATER MUST BE APPLIED AT POUNDS/ACRE, AND TACKIFIER MUST BE APPLIED AT A RATE OF 100</li> <li>EROSION CONTROL BLANKET</li> </ul>	Y BE USED MULCH MUST BE G AND/OR TACKIFIER. MULCH FIBERS MUST BE TUCKED PER THAN 3:1. ACCESS IS LIMITED. PARATE, SECOND OPERATION. A RATE OF 2,000 TO 2,500 00 POUNDS/ACRE.
SM	SEEDING & MULCHING PROVED: SWENT MANAGER SUED: 10/7/19 REVISED: 8/19/2020 DRAWING NO. 900-5M
	SHEET

CIVIL DETAILS