HORIZONTAL CONTROL

MODIFIED COORDINATE SYSTEM - SEE SHEETS IN DRAWINGS

VERTICAL DATUM NAVD88

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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 COLORADO SPRINGS, CO 80918 TELE: (719) 528-8300

ATTN: JEFF JONES EMAIL: COLORADOSPRINGS@CTLTHOMPSON.COM

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

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DETAILS

C501 STILLING STRUCTURE DETAILS C502 DETAILS

C419 EROSION CONTROL DETAILS

- C503 DETAILS
- C701 STANDARD DETAILS

UTILITY CONTACTS

WATER **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

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

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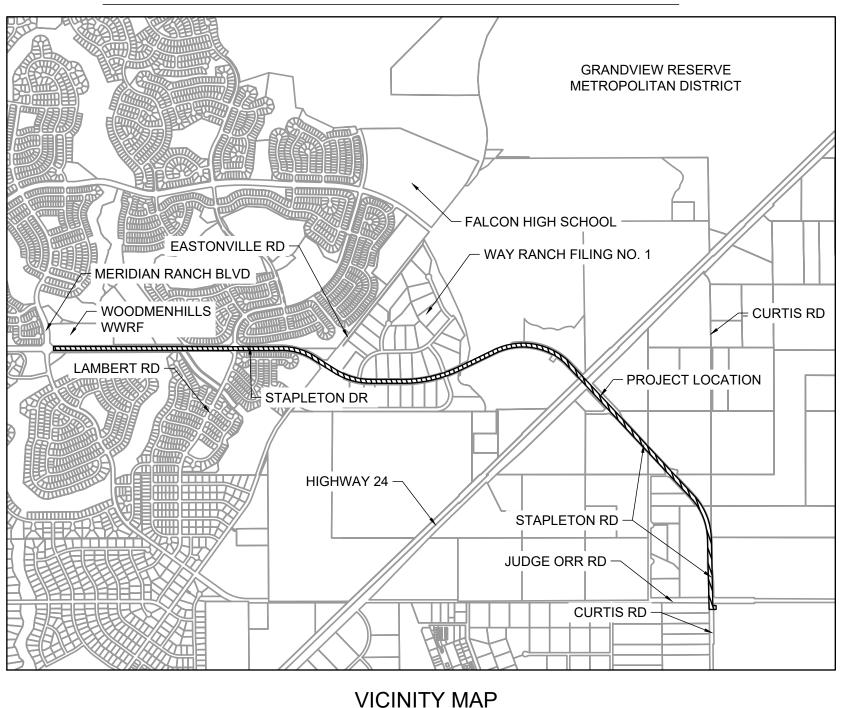
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1975 RESEARCH PARKWAY, SUITE 230 | COLORADO SPRINGS, CO 80920 Phone: 719.300.4140 | Toll Free: 800.728.7805 | Fax: 713.965.0044 | HRGreen.com

GRANDVIEW RESERVE DUAL FORCE MAINS CONSTRUCTION DOCUMENTS

AND EROSION CONTROL PLANS COUNTY OF EL PASO, STATE OF COLORADO

LOCATION MAP



1"=2000'



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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

GRANDVIEW RESERVE M.D. -DUAL FORCE MAINS D.R. HORTON EL PASO COUNTY, CO



EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN. DIMENSIONS, AND/ OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/ OR ACCURACY OF THIS DOCUMENT.

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

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

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PROJECT NO.			
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CONSTRUCTION DOCUMENTS

COVER SHEET

WOODMEN HILLS METROPOLITAN DISTRICT STANDARD NOTES: (SOME NOTES MAY NOT BE APPLICABLE TO PROJECT)

- ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT WOODMEN HILLS METROPOLITAN DISTRICT (WHMD, THE DISTRICT) SPECIFICATIONS.
- ALL PLANS ON THE JOB SITE SHALL BE SIGNED BY THE DISTRICT AND THE DISTRICT'S ENGINEER. 2. ANY REVISION TO THE PLANS SHALL BE SO NOTED WITH THE OLD DRAWING MARKED 'NOT VALID.'
- ALL STATIONING IS CENTERLINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE NOTED. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DISTRICT. THE DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- ALL OVER-LOT GRADING MUST BE COMPLETED TO WITHIN ONE (1) FOOT OF FINAL GRADE PRIOR TO INSTALLATION OF WATER AND WASTEWATER INFRASTRUCTURE.
- ALL WATER AND SEWER SERVICE LOCATIONS SHALL BE CLEARLY MARKED ON EITHER THE CURB HEAD OR THE FACE OF THE CURB, WITH AN "S" FOR SEWER AND A "W" FOR WATER.
- DUCTILE IRON PIPES, INCLUDING FITTINGS, VALVES, AND FIRE HYDRANTS, SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT, AND ELECTRICALLY ISOLATED. BONDING AND ANODE CONNECTIONS SHALL BE THOROUGHLY COATED WITH BITUMINOUS COATINGS.
- ALL DUCTILE IRON PIPE LESS THAN TWELVE INCHES (12") AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO (2) NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. ALL DUCTILE IRON PIPE TWELVE INCHES (12") AND GREATER AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO (2) NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 300 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING.
- ALL PIPE MATERIAL, BACKFILL, AND INSTALLATION SHALL CONFORM TO THE APPLICABLE 8. SPECIFICATIONS OF THE DISTRICT, COLORADO DEPARTMENT OF TRANSPORTATION, EL PASO COUNTY DEPARTMENT OF TRANSPORTATION, COLORADO SPRINGS UTILITIES, AND THE GEOTECHNICAL ENGINEER
- COMPACTION TESTS SHALL BE 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE DISTRICT OR HIGHER STANDARD AS IMPOSED BY ANOTHER AGENCIES HAVING RIGHT-OF-WAY JURISDICTION. THIS SHALL INCLUDE ALL VALVES, FIRE HYDRANT RUNS, WATER & SEWER SERVICE LINES, AND MANHOLES. ALL REPORTS SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
- 10. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE DISTRICT SHALL BE NOTIFIED OF ANY DEVIATIONS TO THE LINE AND/OR GRADE AS DEPICTED ON THE PLANS. CONTRACTOR SHALL SUBMIT TO THE DISTRICT AND THE ENGINEER OF RECORD A REPORT OF THE FIELD-VERIFIED INFORMATION PRIOR TO THE START OF CONSTRUCTION.
- 11. ALL BENDS SHALL BE FIELD STAKED PRIOR TO THE START OF CONSTRUCTION.
- 12. BENDS, DEFLECTION, AND CUT PIPE LENGTHS SHALL BE USED TO HOLD HORIZONTAL ALIGNMENT OF SEWER AND WATER LINES TO NO MORE THAN 0.5' FROM THE DESIGNED ALIGNMENT. CONSTRUCTION STAKES TO BE AT TWENTY-FIVE FEET (25') INTERVALS ALONG CURVES TO ENSURE LOCATION OF PIPELINE CONSTRUCTION.
- 13. AT ALL LOCATIONS WHERE CAP AND STUB IS NOTED ON DRAWINGS. PROVIDE A PLUG AT THE END OF THE PIPE JOINT NEAREST THE SPECIFIED STATION. PROVIDE A REVERSE ANCHOR AT ALL WATER LINE PLUGS.
- 14. ALL UNUSED, SALVAGED WATER UTILITY MATERIAL SHALL BE RETURNED TO THE METROPOLITAN 32. DISTRICT AS REQUESTED.
- 15. AT THE CONTRACTOR'S EXPENSE, ALL UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED SUCH THAT THEY SHALL FUNCTION CONTINUOUSLY DURING CONSTRUCTION OPERATIONS. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR OR BY THE DISTRICT AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR/DEVELOPER.
- 16. PUMPING OR BYPASS OPERATIONS SHALL BE REVIEWED AND APPROVED BY BOTH THE DISTRICT AND THE DISTRICT ENGINEER PRIOR TO EXECUTION.
- 17. THE CONTRACTOR SHALL REPLACE OR REPAIR DAMAGE TO ALL SURFACE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO FENCES, LANDSCAPING, CURB AND GUTTER, AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.
- 18. ALL CONTRACTORS WORKING ON OR NEAR A WATER OR SEWER FACILITY (TO INCLUDE SERVICE LINES) SHALL HAVE LIABILITY INSURANCE NAMING THE DISTRICT AS AN ADDITIONAL INSURED AND SHALL PROVIDE A CURRENT COPY OF WORKERS COMPENSATION INSURANCE ON FILE WITH THE DISTRICT. NO WORK CAN PROCEED WITHOUT CURRENT CERTIFICATES ON FILE AT THE DISTRICTS' OFFICE.
- 19. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND ALL AFFECTED UTILITY COMPANIES ADJACENT TO THE PROPOSED UTILITY CONSTRUCTION A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A WEEKLY CONSTRUCTION MEETING SHALL BE REQUIRED WITH THE CONTRACTOR, DISTRICT ENGINEER AND ALL OTHER PARTIES AS DEEMED NECESSARY BY THE DISTRICT.
- 20. COMMENCEMENT OF CONSTRUCTION OF WATER/SEWER SYSTEMS WITHIN METROPOLITAN DISTRICT:
 - PRIOR TO THE START OF CONSTRUCTION, A PRECONSTRUCTION MEETING IS REQUIRED A a) MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCEMENT OF WORK. A REPRESENTATIVE OF WASTEWATER SYSTEM INSTALLATION NOTES THE OWNER OR DEVELOPER, A REPRESENTATIVE OF THE CONTRACTOR, AND DESIGN ENGINEER ARE REQUIRED TO ATTEND. CONTACT THE DISTRICT TO SCHEDULE THE PRECONSTRUCTION MEETING. NO PRECONSTRUCTION MEETING CAN BE SCHEDULED BEFORE FOUR (4) SIGNED/APPROVED PLAN SETS ARE RECEIVED BY THE DISTRICT.
 - THE CONTRACTOR IS REQUIRED TO NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A b) MAXIMUM OF 2 WEEKS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.
- 22. TESTING OF FACILITIES:
 - THE CONTRACTOR SHALL NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM a) OF 96 HOURS PRIOR TO THE START OF ANY TESTING.
 - ALL SECTIONS OF WATER LINE ARE TO MEET THE FOLLOWING PRESSURE TESTING b) REQUIREMENTS
 - TEST 100% OF ALL LINES.
 - MUST PASS PRESSURE TEST TO 200 PSI FOR TWO HOURS (UNLESS OTHERWISE

- APPROVED ON THE PLANS).
- CCTV INSPECTION.
- DISTRICT FOR REVIEW AND APPROVAL.
- 23. PRELIMINARY ACCEPTANCE SHALL BE DEFINED AS THE POINT IN TIME THAT THE DISTRICT COMPLETE ALL SURFACE IMPROVEMENTS AND RESTORATION WITHIN 30 DAYS OF THE IMPROVEMENTS AT THE CONTRACTOR'S COST.
- 24.
- 25. ACCEPTANCE
 - LINES HAVE BEEN COMPLETED AND A WALK-THROUGH HAS OCCURRED. b) A SECOND ACCEPTANCE MAY OCCUR ONCE THE FIRST LIFT OF ASPHALT GOES DOWN AND
- PREPARED AND APPROVED PRIOR TO PRELIMINARY ACCEPTANCE BY THE DISTRICT.
- MAIN ENTERS THE PROPERTY. THE END OF THE MAINS SHALL BE MARKED WITH THE APPROPRIATE COLORED CARSONITE MARKER ALONG WITH TRACER WIRE.
- SUBDIVISIONS AND 12 MONTHS FOR ANY COMMERCIAL INSTALLATIONS.
- 29. INSPECTION FEES: CALL THE DISTRICT (719-495-2500) FOR FEE SCHEDULE

WATER SYSTEM INSTALLATION NOTES

- FIVE-AND-ONE-HALF (5.5) FEET.
- 31. ALL WATER VALVES ASSOCIATED WITH THE POTABLE WATER SYSTEM SHALL BE OPEN MARKERS AS APPLICABLE.
- REVIEWED AND APPROVED BY THE APPLICABLE FIRE AUTHORITY
- 34 BOXES CAN BE USED AT INTERSECTIONS AND SERVICE STUBS).
- 35 EXISTING LINES.
- 36. WITH TRACER WIRE EXTENDING BACK TO THE MAIN LINE.
- 37. COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS:
 - DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.
 - NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE b)
 - COMPLETED PRIOR TO USE OF THE FACILITY.
 - RECORDED.

- BE APPROVED BY THE DISTRICT ON A CASE BY CASE BASIS
- 39. ALL SANITARY SEWER MANHOLES SHALL BE WRAPPED WITH RU116 RUBR-NEK JOINT WRAP, OR APPROVED EQUAL, AND COATED.
- 40. ALL SEWER LINES MUST BE BEDDED WITH SQUEEGEE OR 3/4" CRUSHED ROCK.
- 41. COMMENCEMENT OF USE OF SEWER LINES AND/OR SYSTEMS:

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c) ALL SANITARY SEWER FACILITIES ARE TO MEET THE FOLLOWING TESTING REQUIREMENTS: ALL LINES SHALL BE JET CLEANED PRIOR TO VACUUM OR PRESSURE TESTING. ALL MANHOLES SHALL BE VACUUM TESTED WITH DISTRICT STAFF PRESENT PRIOR TO

> SEWER MAINS TO BE PRESSURE TESTED PRIOR TO CCTV INSPECTION ALL LINES SHALL BE CCTV INSPECTED AND VIDEO SHALL TO BE SUBMITTED TO THE

ACCEPTS THE FACILITY FOR USE. ALL SURFACE IMPROVEMENTS AND RESTORATION SHALL BE COMPLETED WITHIN 30 DAYS OF COMMENCEMENT. SHOULD THE CONTRACTOR FAIL TO COMMENCEMENT OF SERVICE. THE DISTRICT, AT THEIR DISCRETION, MAY ELECT TO COMPLETE

FINAL ACCEPTANCE BY THE DISTRICT OF ANY LINE OR SYSTEM SHALL NOT OCCUR UNTIL COMPLETION OF FINAL ASPHALT LAYERS AND/OR FINAL COMPLETION AND/OR RESTORATION OF ALL SURFACE IMPROVEMENTS. THE WARRANTY PERIOD FOR ALL FACILITIES PRIOR TO FINAL ACCEPTANCE SHALL BE 24 MONTHS COMMENCING AFTER PRELIMINARY ACCEPTANCE.

a) THE DISTRICT MAY GIVE PRELIMINARY ACCEPTANCE ONCE ALL OF THE TESTS ON ALL THE

A SECOND WALK-THROUGH OF THE SYSTEM OCCURS. IF ALL FACILITIES ARE CLEAN AND ACCESSIBLE, A FINAL ACCEPTANCE MAY OCCUR (THE DISTRICT MAY REQUIRE CLEANING AND RE-VIDEO OF THE SYSTEM, DEPENDING ON THE SEVERITY OF THE CONTAMINATION).

26. ALL WATER AND SEWER MAINS, INCLUDING SERVICE LINES, SHALL HAVE "AS-BUILT" DRAWINGS

27. ALL COMMERCIAL/BUSINESS DEVELOPMENTS SHALL HAVE AN EIGHT INCH (MIN.) WATER MAIN LOOPED THROUGH THE PROPOSED PROPERTY WITH GATE VALVES LOCATED WHERE THE MAIN ENTERS THE PROPERTY LINE. AN EIGHT-INCH SEWER MAIN SHALL BE INSTALLED FOR SERVICE TO COMMERCIAL/BUSINESS DEVELOPMENTS, AND A MANHOLE SHALL BE LOCATED WHERE THE

28. AFTER REVIEW AND APPROVAL OF PLANS FOR THE EXTENSION OF LINES, FACILITIES, AND/OR SERVICES, CONSTRUCTION MUST HAVE COMMENCED WITHIN 18 MONTHS FOR RESIDENTIAL

30. ALL WATER AND FORCE MAIN PIPE SHALL BE AWWA C900 PVC, OR APPROVED EQUAL, PRESSURE CLASS 200. ALL WATER AND FORCE MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINTS AND THRUST BLOCKS. ALL WATER AND FORCE MAIN PIPE SHALL HAVE A MINIMUM COVER DEPTH OF

CLOCKWISE. ALL VALVES INSTALLED IN LANDSCAPED AREAS AND/OR NOT WITHIN PAVED STREETS SHALL BE MARKED WITH CARSONITE MARKERS. ALL VALVES ASSOCIATED WITH THE RAW WATER SYSTEM SHALL BE OPEN COUNTERCLOCKWISE AND MARKED WITH CARSONITE

THE DEVELOPER OR HIS ENGINEER SHALL LOCATE ALL FIRE HYDRANTS AND SERVICE STUB-OUTS FOR FUTURE DEVELOPMENT. ANY REQUIRED REALIGNMENT, HORIZONTAL OR VERTICAL, SHALL BE AT THE EXPENSE OF THE DEVELOPER. FIRE HYDRANT LOCATION SHALL BE

33. FIRE HYDRANTS SHALL BE OPEN RIGHT WITH 7/8" X 7/8" SQUARE TAPERED ALONG WITH SERVICE CAPS. LUBRICATION TYPE: GREASE. ACCEPTABLE BRAND IS KENNEDY GUARDIAN (K81D, K81A, AND K81AM). EACH FIRE HYDRANT LOCATION SHALL ALSO BE USED AS TEST STATION.

ALL MAIN LINES (PVC & DUCTILE IRON) SHALL BE INSTALLED WITH COATED #12 TRACER WIRE WITH TEST STATIONS AT INTERVALS NO GREATER THAN FIVE HUNDRED FEET (500') (VALVE

CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER LINE WITHOUT SHUTDOWN, OR ELSE NOTIFY THE DISTRICT OF ANY SERVICE SHUTDOWNS NECESSARY TO CONNECT TO

IRRIGATION SERVICES SHALL HAVE A STOP-AND-WASTE CURB STOP VALVE INSTALLED ALONG

a) NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL AFTER THE COMPLETION OF ALL PRESSURE TESTING, FLUSHING, BAC-T TESTING, AND COMPACTION TESTING, AND AS-BUILT

COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, SURFACE IMPROVEMENTS SHALL BE

c) ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICT, AND

38. SANITARY SEWER LENGTHS ARE MH CENTER - MH CENTER. ALL SANITARY SEWER PIPES SHALL BE SDR 35 PVC OR APPROVED EQUAL. SEWER LINES MAY NOT EXCEED 7% GRADE FOR ANY SIZE WITHOUT PRIOR APPROVAL OF THE DISTRICT. ALL NEWLY CONSTRUCTED RESIDENTIAL SANITARY SEWER TAPS SHALL USE PRE-MANUFACTURED, INLINE PVC PUSH-ON WYES. SINGLE SADDLE TAP ALLOWED ON EXISTING MAINS. MULTIPLE SADDLE TAPS ON EXISTING MAINS MUST

- a) NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL THE COMPLETION OF ALL JET CLEANING, PRESSURE TESTING, VACUUM TESTING, CCTV INSPECTION, AND COMPACTION TESTING, AND AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT
- b) NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, ANY REQUIRED SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.
- ALL NECESSARY EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICT, AND RECORDED. DOWNSTREAM PLUG CAN BE REMOVED ONCE THE FIRST LIFT OF ASPHALT IS DOWN AND
- THE ABOVE REQUIREMENTS ARE MET.

THE ABOVE GUIDELINES ARE SUBJECT TO CHANGE AT ANY TIME.

UTILITY NOTES

- 1. CONTRACTOR TO OBTAIN WORK IN THE ROW PERMIT FROM EL PASO COUNTY PRIOR TO CONSTRUCTION.
- 2. CONTRACTOR TO POTHOLE AND VERIFY EXISTENCE OF OTHER UTILITIES WITHIN ANY PUBLIC RIGHT OF WAYS AND WITHIN EASEMENTS WHERE PROPOSED UTILITY IS LOCATED.
- 3. CONTRACTOR TO MAINTAIN 5.5' MINIMUM COVER ALL OVER WATER MAINS
- CONSTRUCTED
- 4. ALL VALVES SHOWN FOR SCHEMATIC PURPOSES ONLY. NO VALVES SHALL BE INSTALLED IN CURB AND GUTTER OR CROSS PANS. STANDARD WATER SERVICES LOCATIONS TO BE 10' FROM THE DOWNSTREAM
- PROPERTY LINE AND EXTENDED 10' TO THE UTILITY EASEMENT. 6. STANDARD WASTEWATER SERVICES TO BE IN A COMMON TRENCH WITH STANDARD WATER SERVICES. SHALL BE LOCATION A MINIMUM OF 30" FROM CENTER OF PIPE. SEE
- WOODMEN HILLS METRO DISTRICT STANDARD SPECIFICATIONS DETAIL W-13. STANDARD SERVICES SHALL BE MARKED WITH 2"X4" POST AT TERMINATION POINT FOR LOCATION DURING CONNECTION TO RESIDENCE. POSTS SHALL BE SPRAY-PAINTED
- BLUE FOR WATER AND GREEN FOR SEWER. 8. CURB STOPS ARE NOT TO BE INSTALLED IN CONCRETE CURB, CROSS PANS, SIDEWALKS, OR DRIVEWAYS.
- 9. SEE PLANS FOR THE LOCATION OF STANDARD SERVICES ON CORNER LOTS

CAUTION - NOTICE TO CONTRACTOR

- CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE CALL SERVICE 811 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
- 2. 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.
- 3. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR INTERFERENCE OR DELAY CAUSED BY REPAIRS FOR DAMAGED UTILITIES.
- 4. 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 9. 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.





8. AS-BUILTS

- 5.2. 5.3. 5.4. 5.5. 56 57
- 6.1. 6.2

6.2.2. 6.2.3. 6.2.4. 7. TRAFFIC CONTROL

DESIGN NOTES/SPECIFICATIONS

- 1. IN THE EVENT OF DISCREPANCIES, THE FOLLOWING IS THE ORDER OF PRECEDENCE FOR SPECIFICATIONS, FOLLOW WHAT IS MOST STRINGENT: HR GREEN OVER WHMD OVER CSU OVER EPC OVER CDOT
- 1.1. SPECIFICATIONS PERTAINING TO UTILITIES: WHMD, SUPPLEMENTED BY CSU. 1.2. SPECIFICATIONS PERTAINING TO RIGHT OF WAY AND SURFACING RESTORATION: EPC, SUPPLEMENTED BY CDOT.

2. CONTRACTOR SHALL UTILIZE THE SITE ACCESS AND STAGING AREAS AS IDENTIFIED IN THE DRAWINGS OR OTHERWISE CONTRACTOR SHALL OBTAIN APPROVAL ON OTHER SITES AND ACCESSES 3. CONTRACTOR SHALL STAY WITHIN THE CONSTRUCTION EASEMENTS AND/OR ROAD RIGHT OF WAY. DAMAGES OUTSIDE OF DESIGNATED AREAS SHALL BE REPAIRED/REMEDIED AT CONTRACTOR'S EXPENSE. ADDITIONAL AGREEMENTS OBTAINED BY THE CONTRACTOR SHALL NOT HOLD THE OWNER/ENGINEER RESPONSIBLE FOR ANY DAMAGES/GRIEVANCES.

4. REMOVALS AND REPLACEMENT

- 4.1. ALL ITEMS NOTED FOR REMOVAL AND REPLACEMENT SHALL BE REPLACED IN KIND. CONTRACTOR SHALL FIELD VERIFY. CONTRACTOR SHALL COORDINATE AND CONFIRM WITH RESPECTIVE ENTITIES IF EXISTING CONDITIONS WOULD ALLOW FOR SALVAGE AND RESET
- 4.2. DAMAGED PAVEMENT FROM CONSTRUCTION ACTIVITIES SHALL BE REMEDIED TO EPC'S APPROVAL AT
- CONTRACTOR'S EXPENSE. 4.3. ROADWAY REPLACEMENT/PATCHING/CONSTRUCTION SHALL COMPLY TO SPECIFICATIONS OF EPC, CDOT, OR RESPECTIVE AGENCY WITH JURISDICTION OVER THE ROAD.
- 4.4. PAVEMENT/ROADWAY TYPICAL SECTIONS FOR RESTORATION CONTRACTOR SHALL FIELD VERIFY, IF EXISTING SECTION DIFFERS FROM BELOW, MATCH EXISTING.
- STAPLETON RD FROM JUDGE ORR TO HWY 24: 6.5" HMA (IN MULTIPLE LIFTS NO THICKER THAN 3") OVER 12" 4.4.1. THICK CLASS 6 BASE COURSE; MIN. 2% CROSS SLOPE FROM CROWN; 4" TOP SOIL ON SIDE SLOPES STAPLETON RD FROM HWY 24 TO EASTONVILLE RD: 8" HMA (IN MULTIPLE LIFTS NO THICKER THAN 3") OVER 4.4.2. PREPARED SUBGRADE; MIN. 2% CROSS SLOPE FROM CROWN; MATCH EXISTING DEPTH OF TOP SOIL ON
- SIDE SLOPES 4.4.3. STAPLETON DR FROM EASTONVILLE RD TO MERIDIAN RANCH BLVD: 6.5" HMA (IN MULTIPLE LIFTS NO THICKER THAN 3") OVER 12" THICK CLASS 6 BASE COURSE: MIN. 2% CROSS SLOPE FROM CROWN: 4" TOP SOIL ON SIDE SLOPES
- 4.4.4. EASTONVILLE RD CROSSING: 5" HMA OVER 10" ABC CLASS 6
- 4.4.5. OTHER ROAD CROSSINGS: MATCH EXISTING SECTION

5. DUAL FORCE MAIN

- FOLLOW REQUIREMENTS PER WHMD STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED IN DRAWINGS. ALL PIPES FOR THE PROJECT SHALL BE C900 DR14, UNLESS SPECIFIED OTHERWISE IN DRAWINGS. ALL FITTINGS SHALL BE DUCTILE IRON. PROVIDE PE WRAP AND CATHODIC PROTECTION AT EACH FITTING.
- INSTALL BEDDING PER "TYPICAL TRENCH DETAIL" ON SHEET C701.
- INSTALL CASING PIPE PER "CASING PIPE DETAIL" ON SHEET C701.
- AT-GRADE TEST STATIONS SHALL BE CP GLEN METAL WITH LOCKING LIDS. CLEAN OUTS SHALL BE PER DETAIL ON SHEET CXXX.

6. PERMITS

- OWNER IS RESPONSIBLE FOR WETLAND/NATION WIDE PERMIT, ESQCP, APPROVAL FROM CDPHE, AND **OBTAINING EASEMENTS**
- ALL PERMITS REQUIRED FOR CONSTRUCTION, NOT PROVIDED, SHALL BE OBTAINED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION, SUBMITTAL, FEES, AND ALL OTHER ITEMS ASSOCIATED WITH PERMITTING. THE FOLLOWING ANTICIPATED PERMIT LIST IS NOT ALL INCLUSIVE:
- NPDES AND DEWATERING PERMITS 6.2.1.
- CDOT UTILITY CROSSING AND ROW USE PERMITS EPC ROW USE AND CONSTRUCTION PERMITS
- FLOODPLAIN DEVELOPMENT PERMIT
- 7.1. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL PLAN, COORDINATION WITH ALL IMPACTED PARTIES (CDOT, EPC, ADJACENT LANDOWNERS, ETC) MODIFICATIONS, AND MAINTENANCE. MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES, WHERE POSSIBLE.
- 7.2. CONTRACTOR SHALL CONTACT EPC 2 WEEKS BEFORE CONSTRUCTION BEGINS TO ALLOW PUBLIC NOTIFICATION OF ROAD CLOSURES. CONTRACTOR SHALL COORDINATE CLOSURE DURATION AND PROCESS WITH ALL ENTITIES INVOLVED/IMPACTED.
- 7.3. CONTRACTOR SHALL COORDINATE MAILBOXES/DELIVERIES WITH THE LOCAL DELIVERIES SERVICES DURING CONSTRICTION ACTIVITIES DISTURBANCE OF MAILBOXES AND ROAD ACCESSES.
- 8.1. CONTRACTOR SHALL PROVIDE A THIRD PARTY INSPECTOR TO MAP IN POINTMAN THE ALIGNMENT AND DEPTH OF THE PIPE INSTALLED ACROSS THE ENTIRE WIDTH OF THE RIGHT-OF-WAY OF HWY 24. CONTRACTOR SHALL KEEP RECORD OF CHANGES TO DESIGN AND PROVIDE AS-BUILT DRAWING SET/CAD DRAWINGS TO OWNER.

CDPHE DESIGN REVIEW DOCUMENT SUBMITTAL NOT FOR CONSTRUCTION

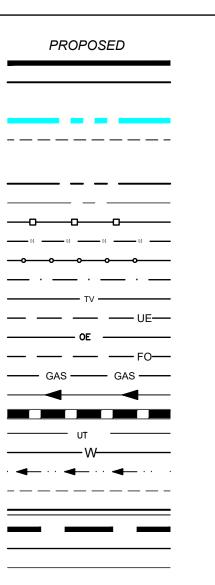
CONSTRUCTION DOCUMENTS

GENERAL NOTES

LEGEND

MATCH LINE PHASE LINE SECTION LINE PROPERTY LINE EASEMENT LINE ASSUMED EASEMENT RIGHT OF WAY CENTERLINE CHAIN LINK FENCE WOODEN FENCE ROD IRON FENCE GUARDRAIL CABLE TV U.G. ELECTRIC OVERHEAD ELECTRIC FIBER OPTIC GAS MAIN SANITARY SEWER STORM DRAIN TELEPHONE WATER MAIN SWALE TRAIL CURB & GUTTER DRAINAGE BASIN INDEX CONTOUR INTER. CONTOUR 100-YR FLOODPLAIN FLOODWAY

EXISTING
TV OE GAS GAS
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(AREA)

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BAR IS ONE INCH ON OFFICIAL DRAWINGS.

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NO. DATE BY

DRAINAGE

DRAINAGE BASIN

BASIN TAG

DESIGN POINT

ASPHALT

GRAVEL

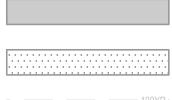
100 YR FLOOD

PENDING 100 YR FLOOD WETLANDS

DRAWN BY: JMM

APPROVED: <u>GP</u>

CAD DATE: <u>1/7/2025</u>



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JOB NUMBER: <u>201662.07</u>

FLARED END SECTION RIPRAP

STORM INLET

MANHOLE

STORM SEWER

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EVL

RORG

SANITARY SEWER CLEAN OUT MANHOLE

WATER

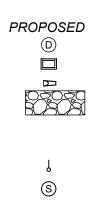
PLUG

FIRE HYDRANT	
FIRE DEPT. CONNECTION	
GATE VALVE	
MANHOLE	
METER	
TEE	
REDUCER	

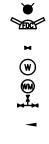
DRY UTILITIES ELECTRIC METER

ELECTRIC PEDESTAL	
ELECTRICAL CABINET	
ELECTRIC VAULT	
FIBER OPTIC PULL BOX	
FIBER OPTIC MANHOLE	
FIBER OPTIC PEDESTAL	
FIBER OPTIC SIGN	
FIBER OPTIC VAULT	
GAS METER	
GAS SIGN	
GAS VAULT	
TELEPHONE CABINET	
TELEPHONE MANHOLE	
TELEPHONE SIGNAL/MAST	
TELEPHONE SIGN	
TELEPHONE PEDESTAL	
TRANSFORMER	
LIGHT POLE	
FIBER OPTIC VAULT	

SIGN







MISCELLANEOUS

BOLLLARD ACCESSIBLE PARKING -0- Θ 6



REVISION DESCRIPTION

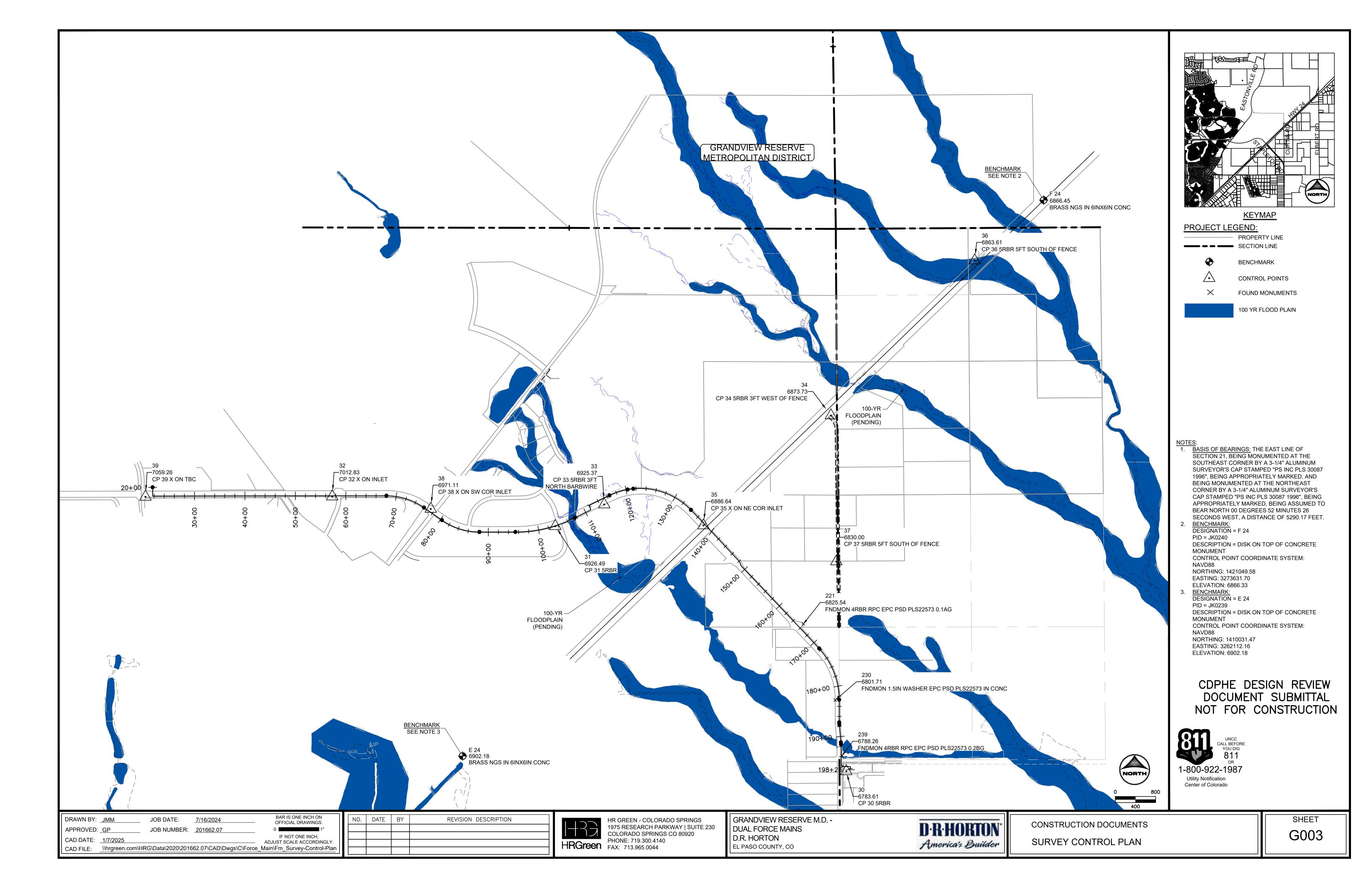


CONSTRUCTION DOCUMENTS

LEGEND

SHEET G002

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PROJECT COORDINATE NOTES:

THE PROJECT COORDINATES FOR GRANDVIEW WERE ESTABLISHED BY AN ENGINEERING AND SURVEYING CONSULTANT PRIOR TO EDWARD-JAMES SURVEYING'S (EJSI) INVOLVEMENT IN THE PROJECT. IN LATE 2005, EJSI WAS PROVIDED WITH PROJECT COORDINATES FOR SEVERAL SECTION CORNERS THROUGHOUT THE PROJECT AREA. EJSI CALIBRATED TO THE PROJECT COORDINATE SYSTEM AND BEGAN WORKING ON SEVERAL PROJECTS IN THE AREA. RECENTLY, IT HAS BEEN REQUESTED THAT A CORRELATION BETWEEN THE PROJECT COORDINATES AND STATE PLANE CENTRAL BE ESTABLISHED. IN ORDER TO ACCOMPLISH THIS, EJSI SURVEYED THE LOCATION OF TWO NGS MONUMENTS (E24 AND F24) USING THE PROJECT CALIBRATION. BELOW ARE THE STEPS REQUIRED TO CONVERT PROJECT COORDINATE TO STATE PLANE CENTRAL COORDINATES.

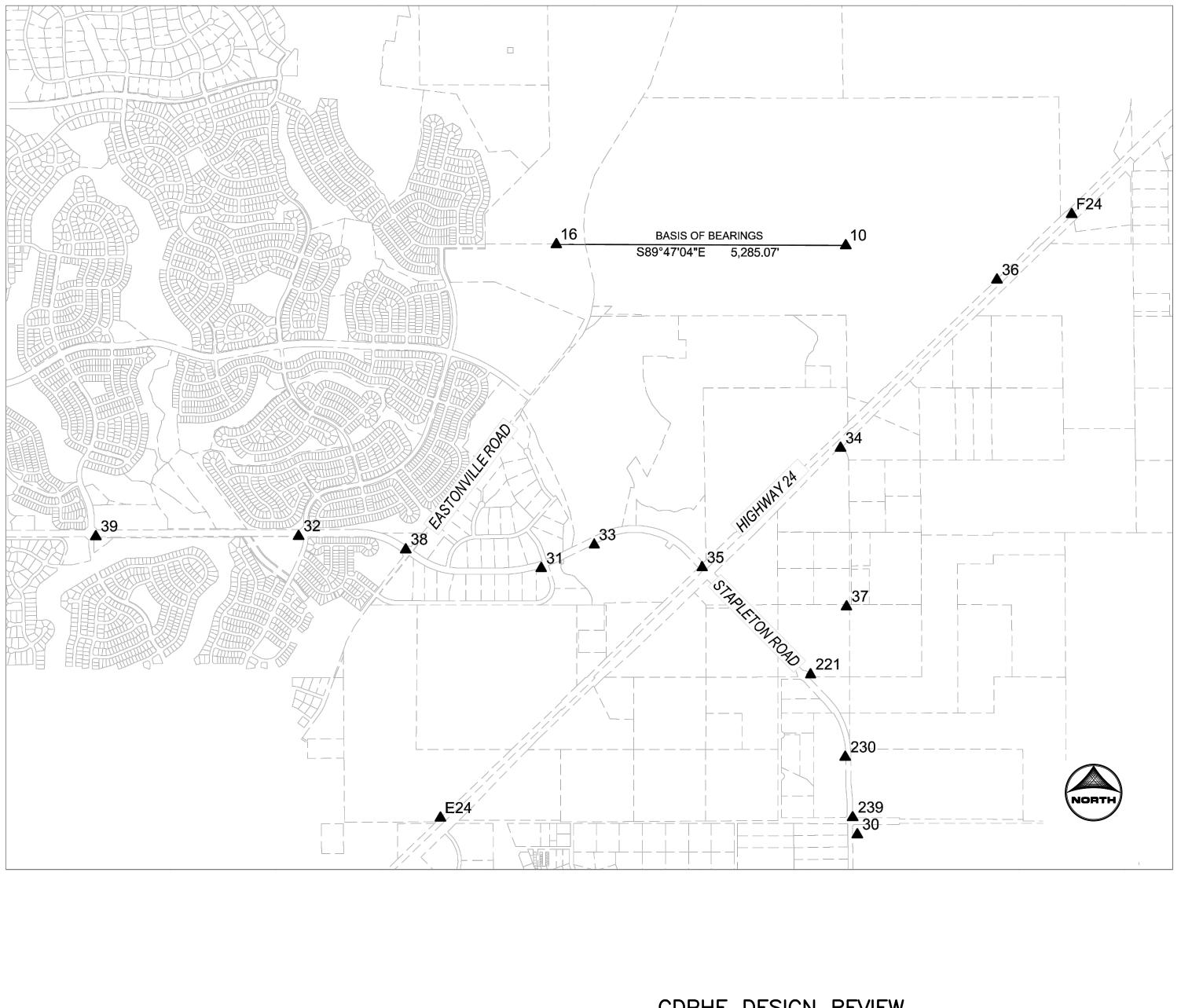
TO GET FROM STATE PLANE COORDINATES TO PROJECT COORDINATES, COMPLETE THE FOLLOWING STEPS:

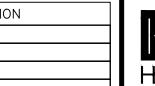
- 1. SCALE THE STATE PLANE COORDINATES BY 1.0003921722 USING THE STATE PLANE COORDINATE FOR E24 AS THE POINT OF ORIGIN.
- 2. TRANSLATE THE SCALED COORDINATE FROM THE STATE PLANE COORDINATE FOR E24 TO THE PROJECT COORDINATE FOR E24.
- ROTATE THE SCALED AND TRANSLATED COORDINATE HOLDING THE PROJECT COORDINATE FOR E24 AND ROTATING CLOCKWISE BY 3. 0°00'26".

	CO STATE PLANE CENTRAL COORDINATES				NAVD 88			
POINT NO.	NORTHING	EASTING	NORTHING	EASTING	ELEVATION	DESCRIPTION	LATITUDE	LONGITUDE
E 24	1409946.25	3261914.04	1410031.47	3262112.16	6,902.18	NGS E 24 (PID JK0239) - 3-1/4" BRASS DISK IN CONCRETE MONUMENT	N38°57'19.11389"	W104°34'44.20466"
F 24	1420961.49	3273427.68	1421049.58	3273631.70	6,866.33	NGS F 24 (PID JK0240) - 3-1/4" BRASS DISK IN CONCRETE MONUMENT	N38°59'06.81100"	W104°32'16.97772'
10	1420391.37	3269307.86	1420479.76	3269510.19	6,920.40	NORTHEAST CORNER SECTION 28 (3-1/4" AL CAP "PS INC LS 30087 1996")		
16	1420410.59	3264024.90	1420499.65	3264225.16	7,011.44	NORTHWEST CORNER SECTION 28 (3-1/4" AL CAP "PS INC LS 30087 1996")		
30	1409644.75	3269516.52	1409728.89	3269717.58	6,783.61	CP 30 NO. 5 REBAR		
31	1414500.64	3263750.88	1414587.41	3263950.29	6,926.49	CP 31 NO. 5 REBAR		
32	1415086.52	3259329.87	1415174.09	3259527.63	7,012.83	CP 32 "X" ON INLET		
33	1414929.81	3264719.53	1415016.64	3264919.38	6,925.37	CP 33 NO. 5 REBAR		
34	1416695.18	3269211.50	1416782.13	3269413.33	6,873.73	CP 34 NO. 5 REBAR		
35	1414515.45	3266686.82	1414601.86	3266887.39	6,886.64	CP 35 "X" ON NE CORNER OF INLET		
36	1419764.51	3272060.60	1419852.30	3272263.94	6,863.61	CP 36 NO. 5 REBAR		
37	1413802.62	3269320.13	1413888.42	3269521.64	6,830.00	CP 37 NO. 5 REBAR		
38	1414841.57	3261282.31	1414928.79	3261480.80	6,971.11	CP 38 "X" ON SOUTHWEST CORNER INLET		
39	1415081.32	3255628.10	1415169.35	3255824.40	7,059.26	CP 39 "X" ON TBC		
221	1412563.13	3268665.62	1412648.52	3268866.71	6,825.54	NO. 4 REBAR AND RED PLASTIC CAP "EPC PSD PLS22573"		
230	1411056.50	3269297.63	1411141.23	3269498.78	6,801.71	NAIL AND 1-1/2" WASHER IN CONCRETE "EPC PSD PLS 22573"		
239	1409955.40	3269433.32	1410039.67	3269634.39	6,788.26	NO. 4 REBAR AND RED PLASTIC CAP "EPC PSD PLS 22573"		

DRAWN BY: <u>JMM</u>	JOB DATE:	9/4/2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS.		NO.	DATE	BY	REVISION DESCRIPT
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GRANDVIEW PROJECT COORDINATES





GRANDVIEW RESERVE M.D. -DUAL FORCE MAINS D.R. HORTON EL PASO COUNTY, CO

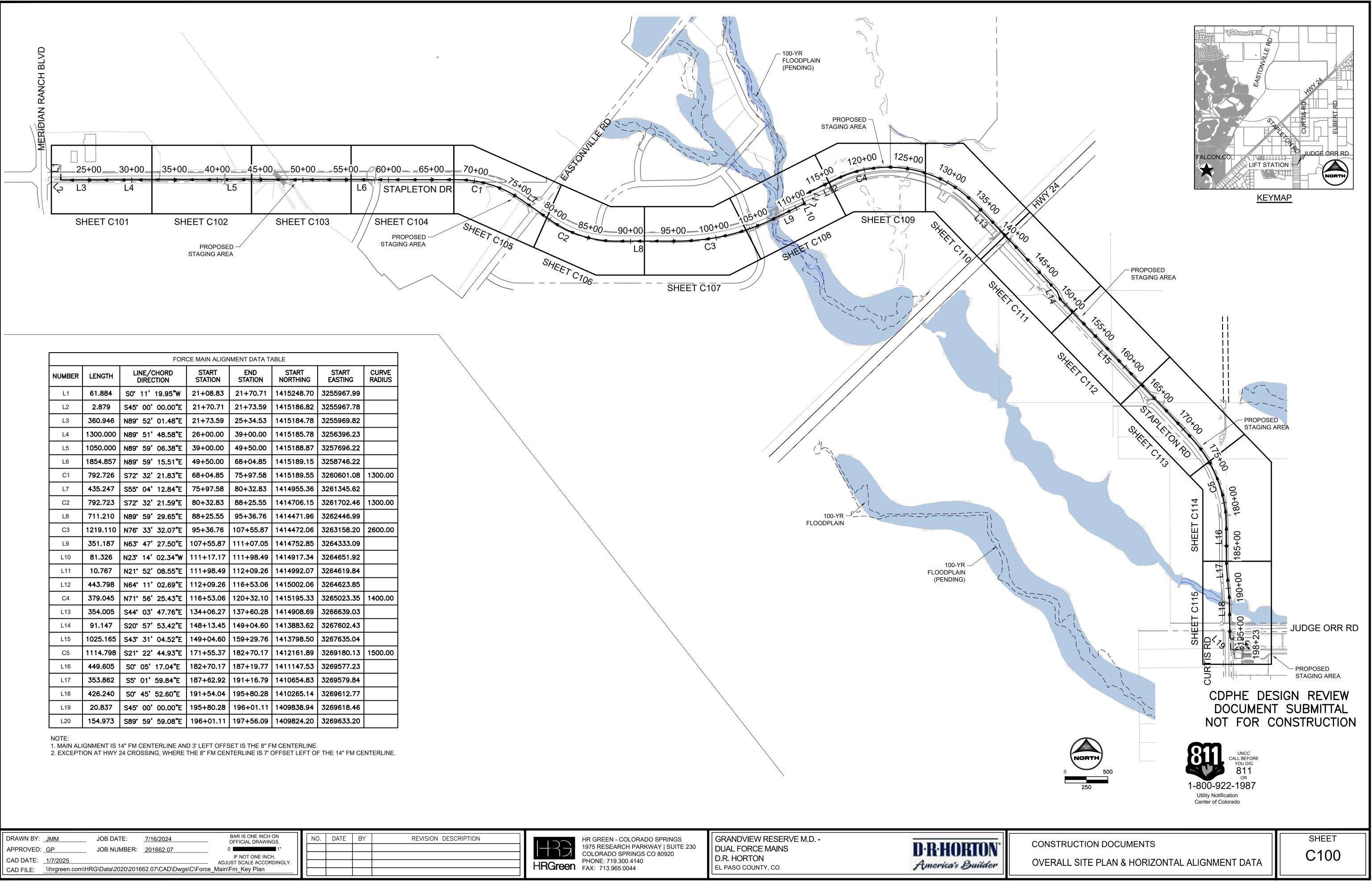


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CONSTRUCTION DOCUMENTS

SURVEY COORDINATES

SHEET G004

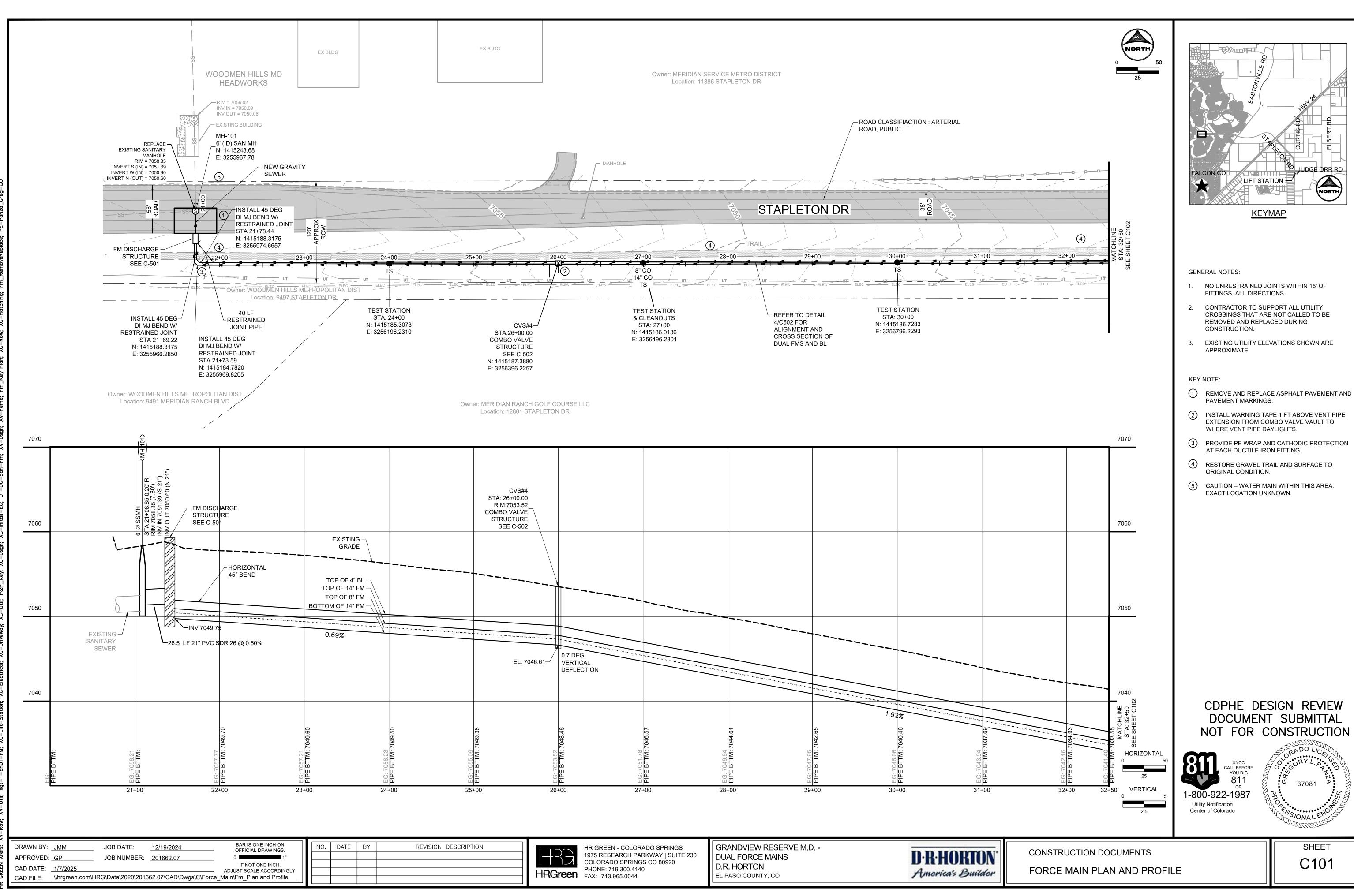


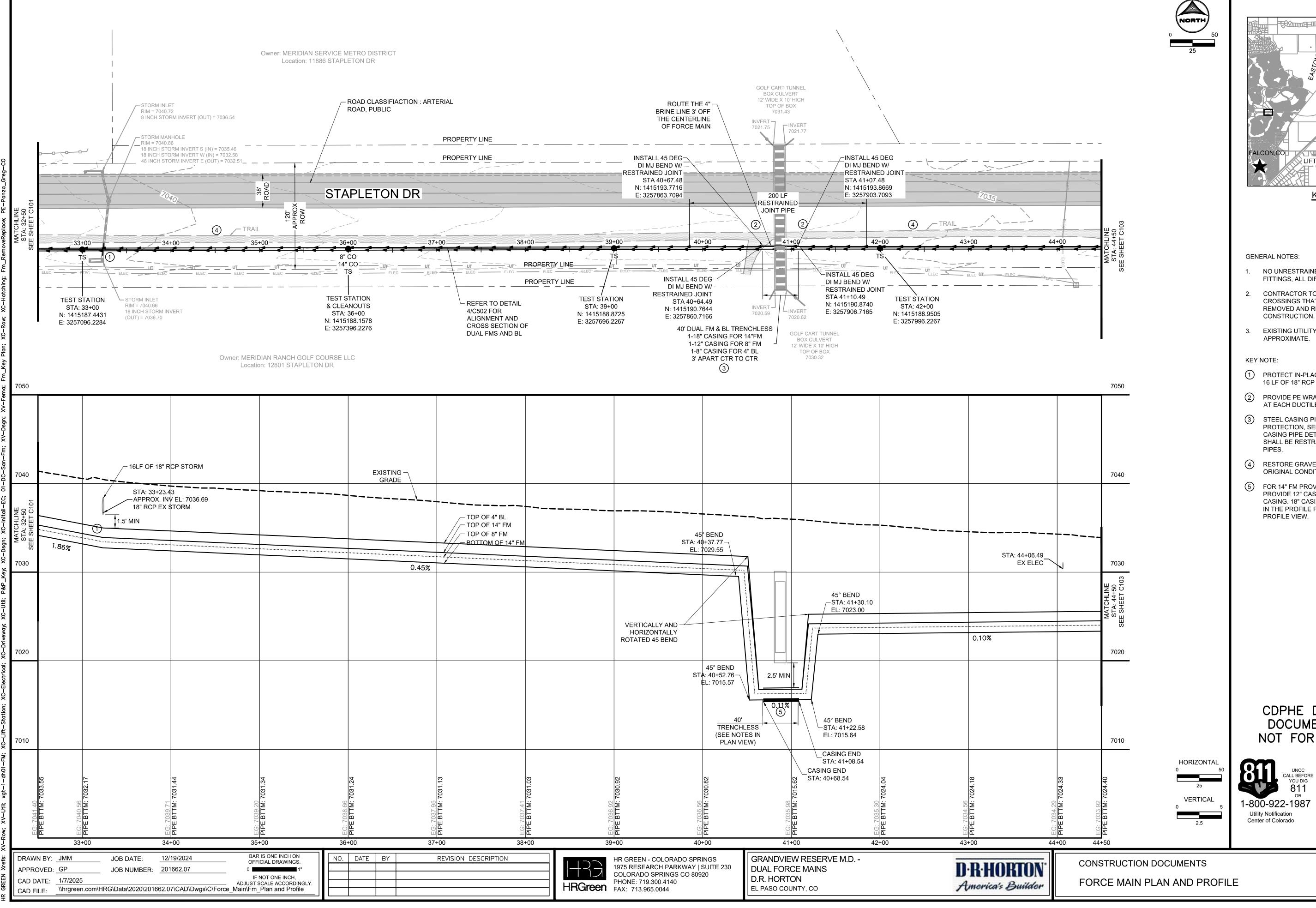
		FOR	CE MAIN ALIGN	MENT DATA TA	ABLE		
NUMBER	LENGTH	LINE/CHORD DIRECTION	START STATION	END STATION	START NORTHING	START EASTING	CURVI RADIU
L1	61.884	S0° 11' 19.95"W	21+08.83	21+70.71	1415248.70	3255967.99	
L2	2.879	S45 00' 00.00"E	21+70.71	21+73.59	1415186.82	3255967.78	
L3	360.946	N89 52' 01.48"E	21+73.59	25+34.53	1415184.78	3255969.82	
L4	1300.000	N89° 51' 48.58"E	26+00.00	39+00.00	1415185.78	3256396.23	
L5	1050.000	N89 59' 06.38"E	39+00.00	49+50.00	1415188.87	3257696.22	
L6	1854.857	N89 59' 15.51"E	49+50.00	68+04.85	1415189.15	3258746.22	
C1	792.726	S72 32 21.83"E	68+04.85	75+97.58	1415189.55	3260601.08	1300.0
L7	435.247	S55* 04' 12.84"E	75+97.58	80+32.83	1414955.36	3261345.62	
C2	792.723	S72 32 21.59"E	80+32.83	88+25.55	1414706.15	3261702.46	1300.0
L8	711.210	N89 59' 29.65"E	88+25.55	95+36.76	1414471.96	3262446.99	
C3	1219.110	N76 33' 32.07"E	95+36.76	107+55.87	1414472.06	3263158.20	2600.0
L9	351.187	N63° 47' 27.50"E	107+55.87	111+07.05	1414752.85	3264333.09	
L10	81.326	N23 14' 02.34"W	111+17.17	111+98.49	1414917.34	3264651.92	
L11	10.767	N21° 52' 08.55"E	111+98.49	112+09.26	1414992.07	3264619.84	
L12	443.798	N64 11' 02.69"E	112+09.26	116+53.06	1415002.06	3264623.85	
C4	379.045	N71° 56' 25.43"E	116+53.06	120+32.10	1415195.33	3265023.35	1400.0
L13	354.005	S44 03' 47.76"E	134+06.27	137+60.28	1414908.69	3266639.03	
L14	91.147	S20° 57' 53.42"E	148+13.45	149+04.60	1413883.62	3267602.43	
L15	1025.165	S43° 31' 04.52"E	149+04.60	159+29.76	1413798.50	3267635.04	
C5	1114.798	S21° 22' 44.93"E	171+55.37	182+70.17	1412161.89	3269180.13	1500.0
L16	449.605	S0° 05' 17.04"E	182+70.17	187+19.77	1411147.53	3269577.23	
L17	353.862	S5 01 59.84"E	187+62.92	191+16.79	1410654.83	3269579.84	
L18	426.240	S0* 45' 52.60"E	191+54.04	195+80.28	1410265.14	3269612.77	
L19	20.837	S45' 00' 00.00"E	195+80.28	196+01.11	1409838.94	3269618.46	
L20	154.973	S89 59' 59.08"E	196+01.11	197+56.09	1409824.20	3269633.20	

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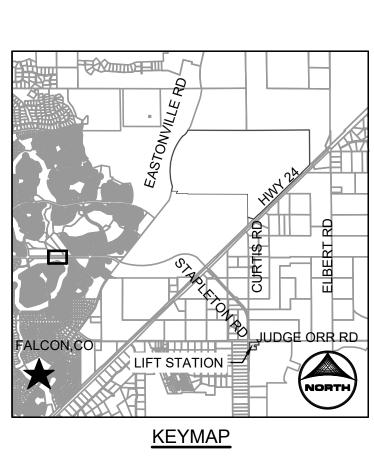










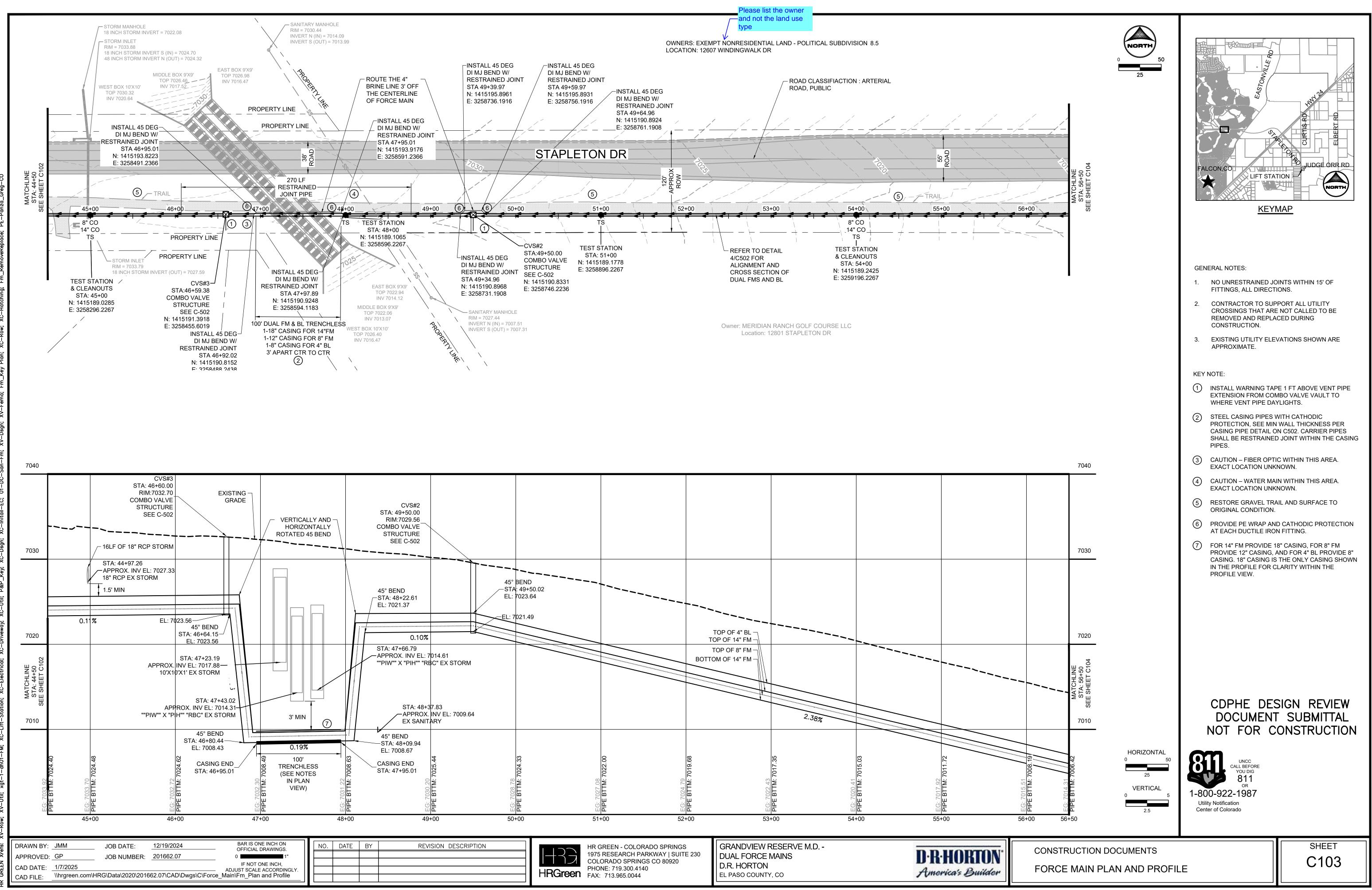


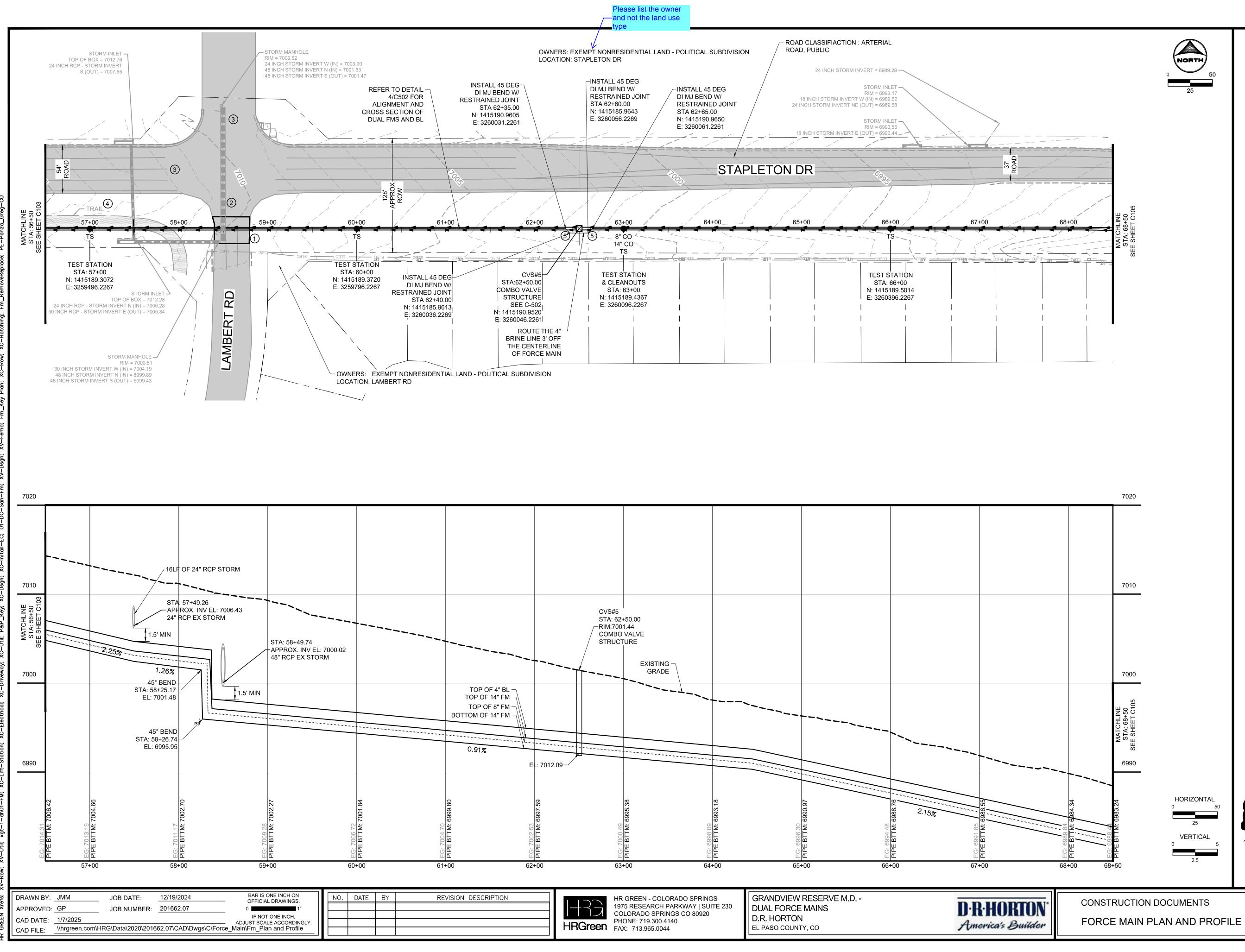
- 1. NO UNRESTRAINED JOINTS WITHIN 15' OF FITTINGS, ALL DIRECTIONS.
- 2. CONTRACTOR TO SUPPORT ALL UTILITY CROSSINGS THAT ARE NOT CALLED TO BE REMOVED AND REPLACED DURING CONSTRUCTION.
- 3. EXISTING UTILITY ELEVATIONS SHOWN ARE

- 1 PROTECT IN-PLACE OR REMOVE AND REINSTALL 16 LF OF 18" RCP STORM PIPE AND JUNCTION BOX.
- 2 PROVIDE PE WRAP AND CATHODIC PROTECTION AT EACH DUCTILE IRON FITTING.
- 3 STEEL CASING PIPES WITH CATHODIC PROTECTION, SEE MIN WALL THICKNESS PER CASING PIPE DETAIL ON C502. CARRIER PIPES SHALL BE RESTRAINED JOINT WITHIN THE CASING
- (4) RESTORE GRAVEL TRAIL AND SURFACE TO ORIGINAL CONDITION.
- 5 FOR 14" FM PROVIDE 18" CASING, FOR 8" FM PROVIDE 12" CASING, AND FOR 4" BL PROVIDE 8" CASING. 18" CASING IS THE ONLY CASING SHOWN IN THE PROFILE FOR CLARITY WITHIN THE

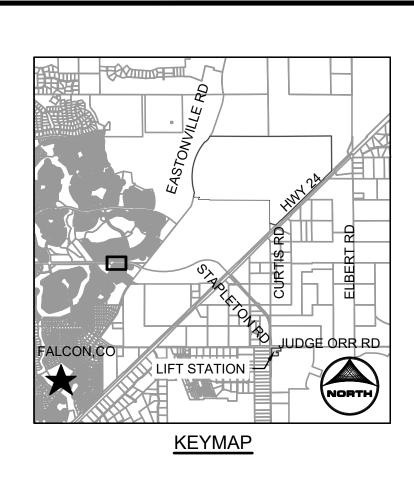
CDPHE DESIGN REVIEW DOCUMENT SUBMITTAL NOT FOR CONSTRUCTION

SHEET C102









GENERAL NOTES:

- 1. NO UNRESTRAINED JOINTS WITHIN 15' OF FITTINGS, ALL DIRECTIONS.
- 2 CONTRACTOR TO SUPPORT ALL UTILITY CROSSINGS THAT ARE NOT CALLED TO BE REMOVED AND REPLACED DURING CONSTRUCTION.
- EXISTING UTILITY ELEVATIONS SHOWN ARE 3 APPROXIMATE.

KEY NOTE:

- 1 REMOVE AND REPLACE ASPHALT PAVEMENT AND PAVEMENT MARKINGS.
- (2) CAUTION FIBER OPTIC WITHIN THIS AREA. EXACT LOCATION UNKNOWN.
- (3) CAUTION WATER MAIN WITHIN THIS AREA. EXACT LOCATION UNKNOWN.
- (4) RESTORE GRAVEL TRAIL AND SURFACE TO ORIGINAL CONDITION.
- 5 PROVIDE PE WRAP AND CATHODIC PROTECTION AT EACH DUCTILE IRON FITTING.

CDPHE DESIGN REVIEW DOCUMENT SUBMITTAL NOT FOR CONSTRUCTION



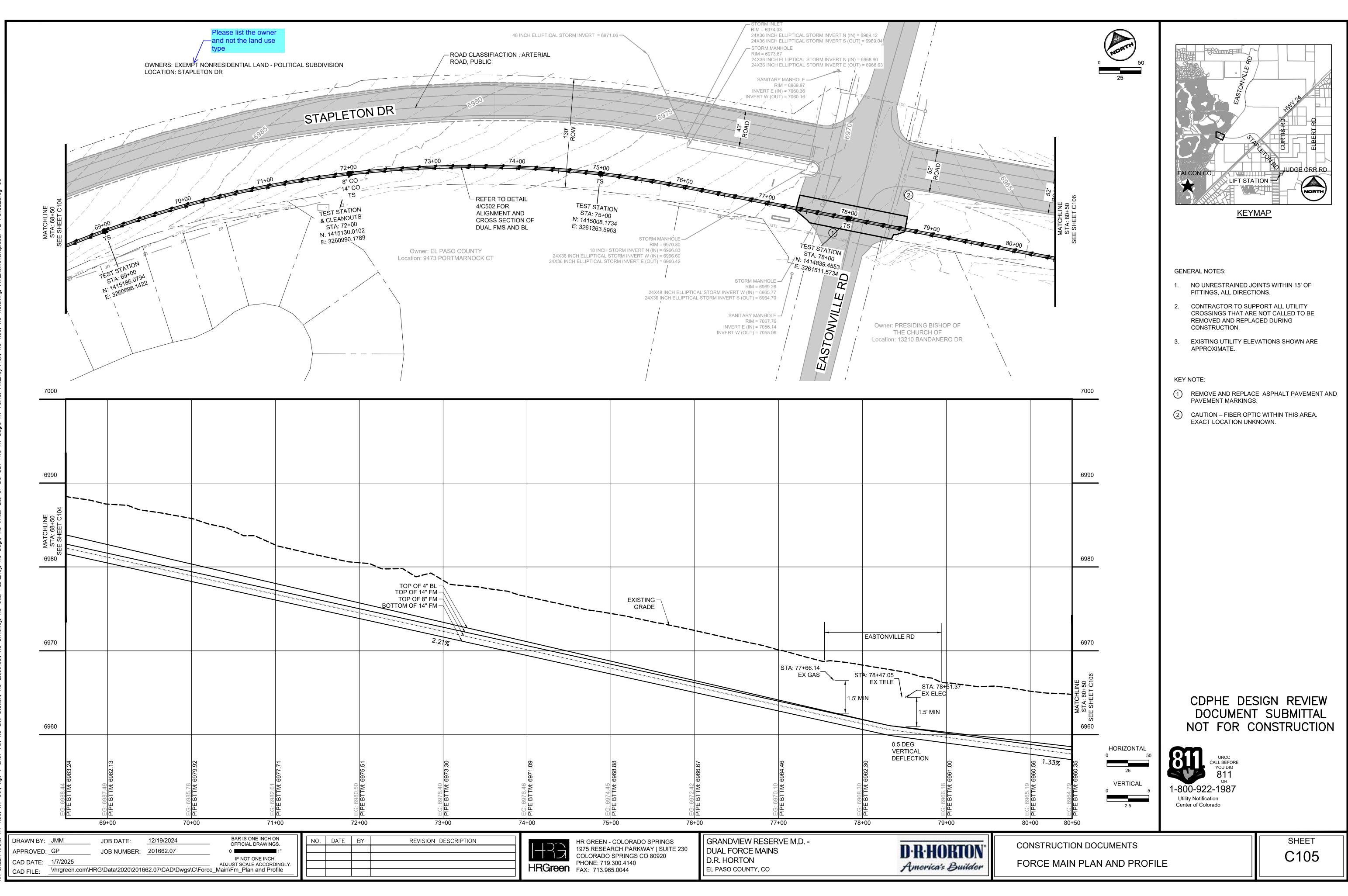
CONSTRUCTION DOCUMENTS

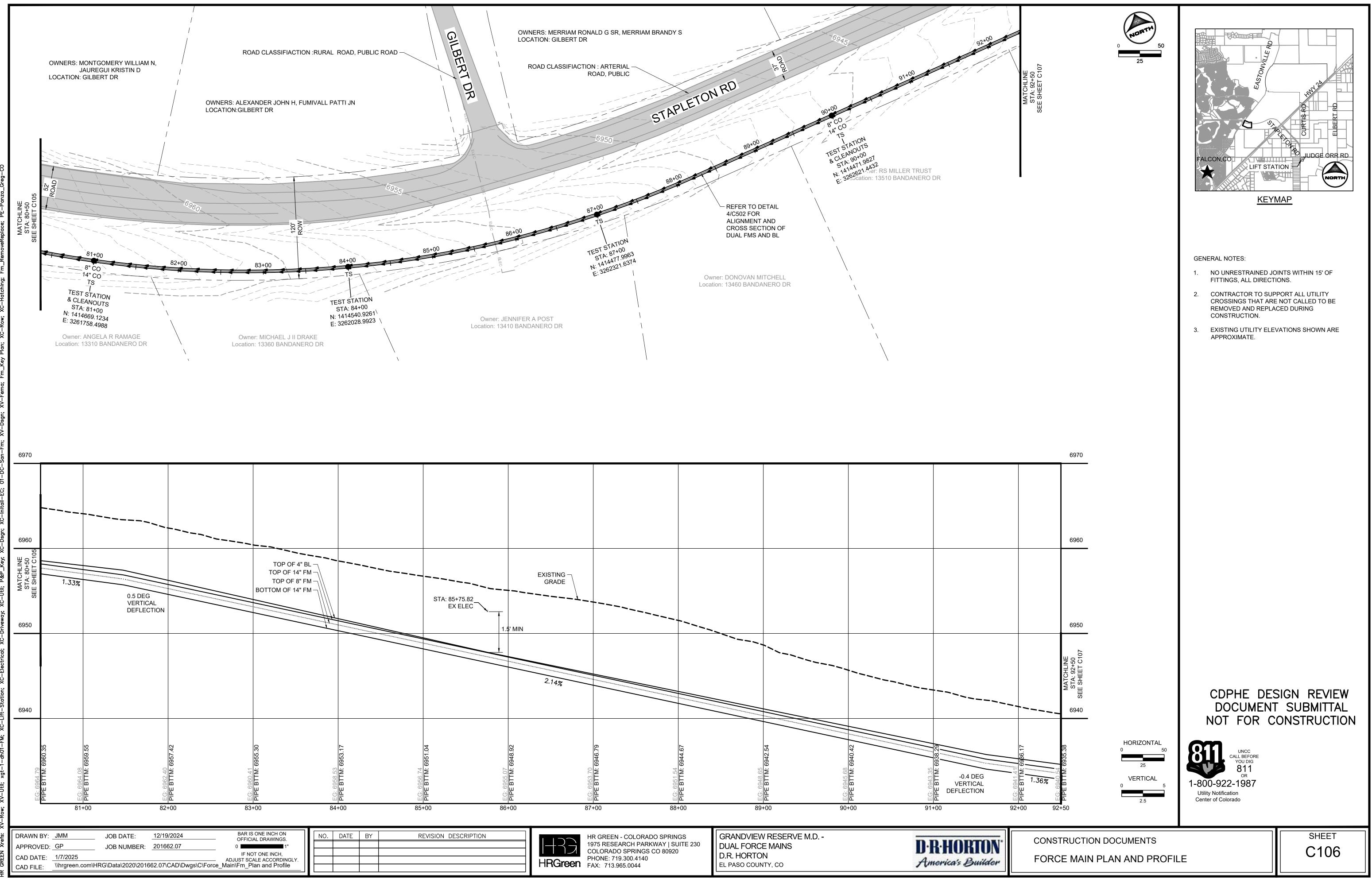
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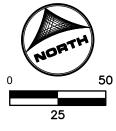
VERTICAL

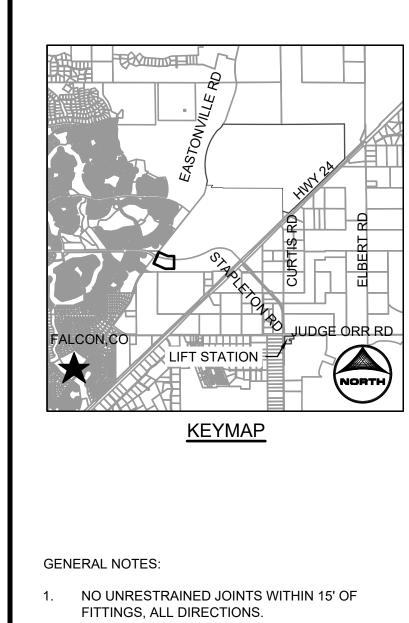
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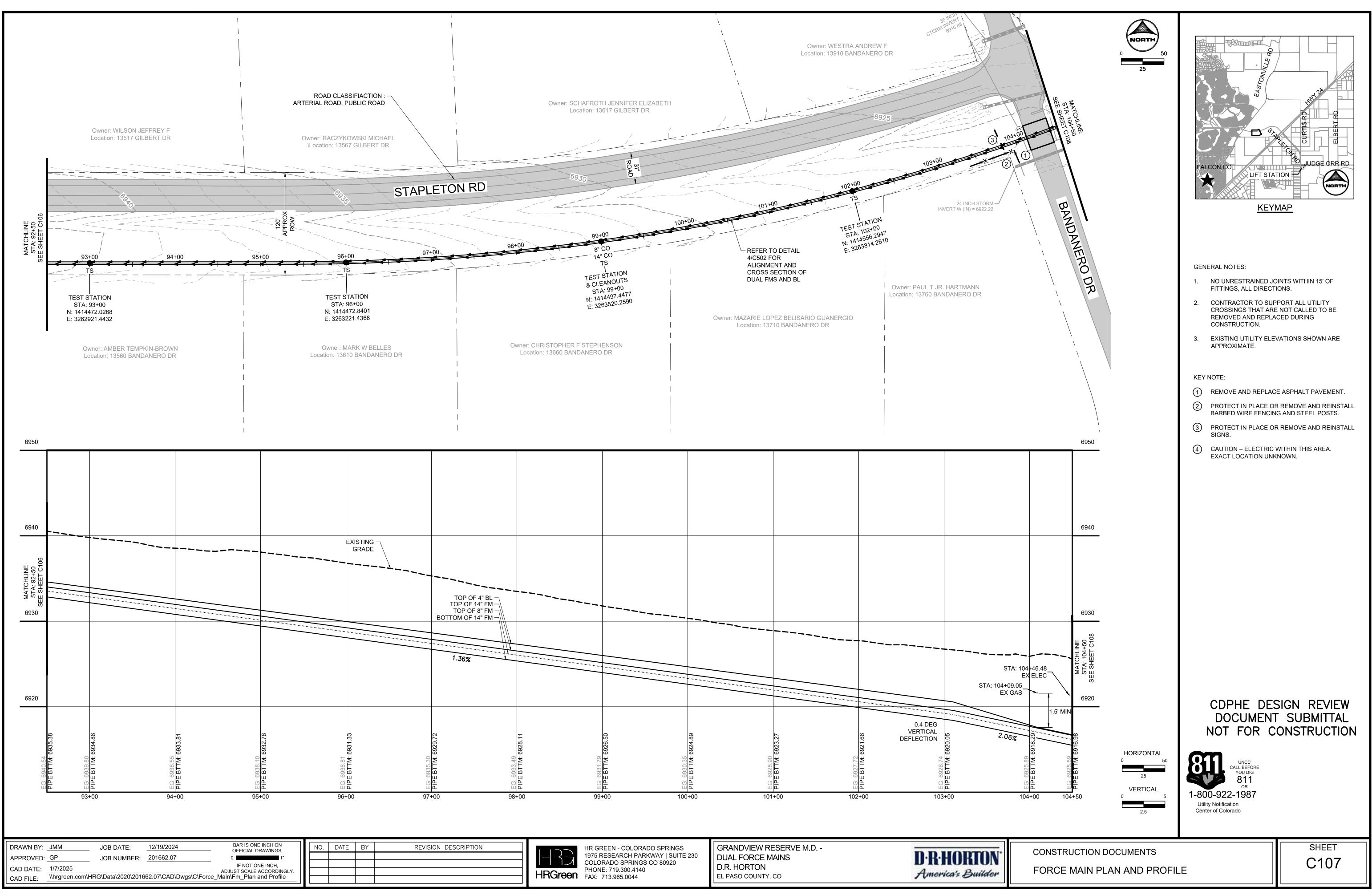
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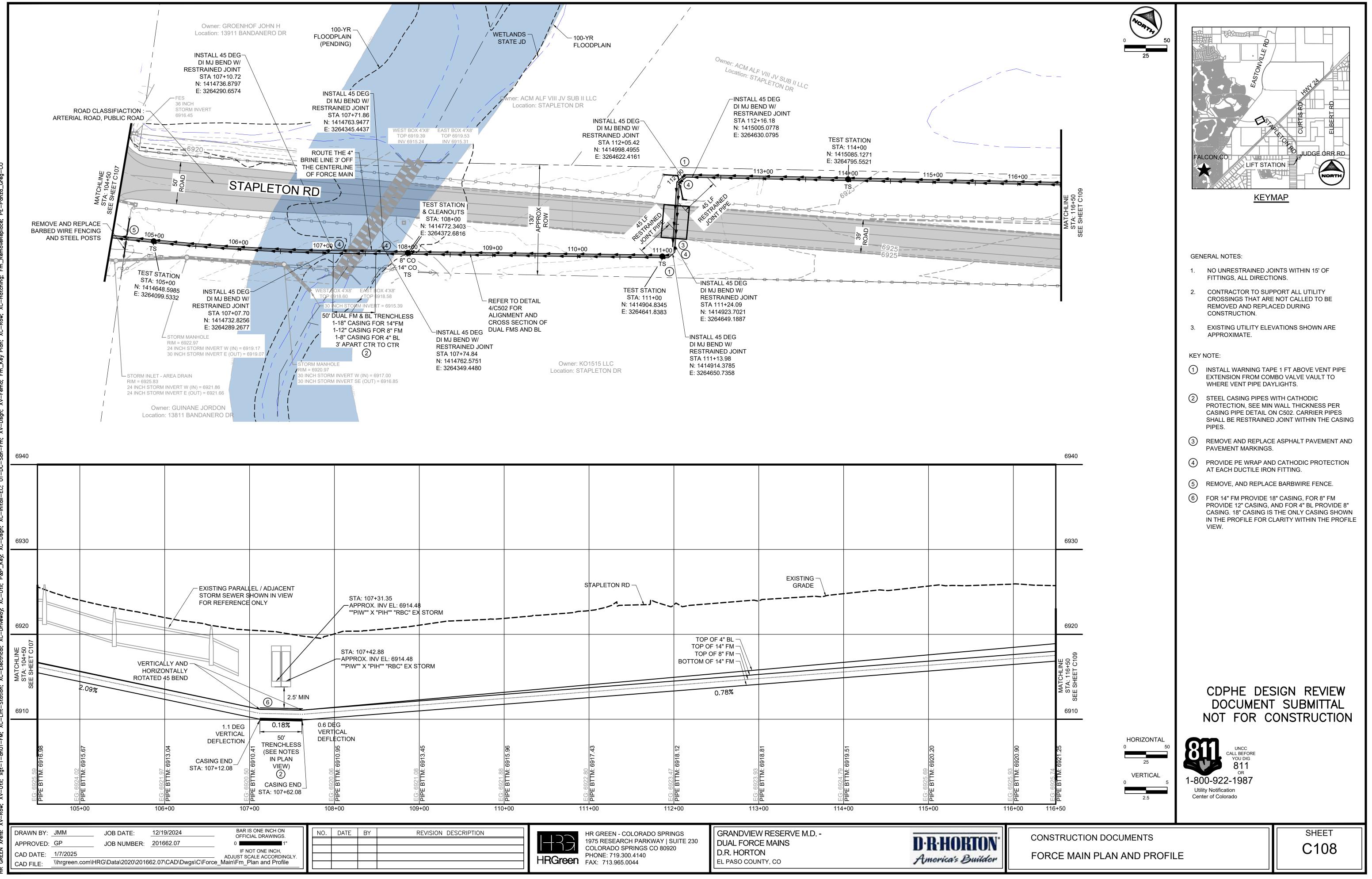




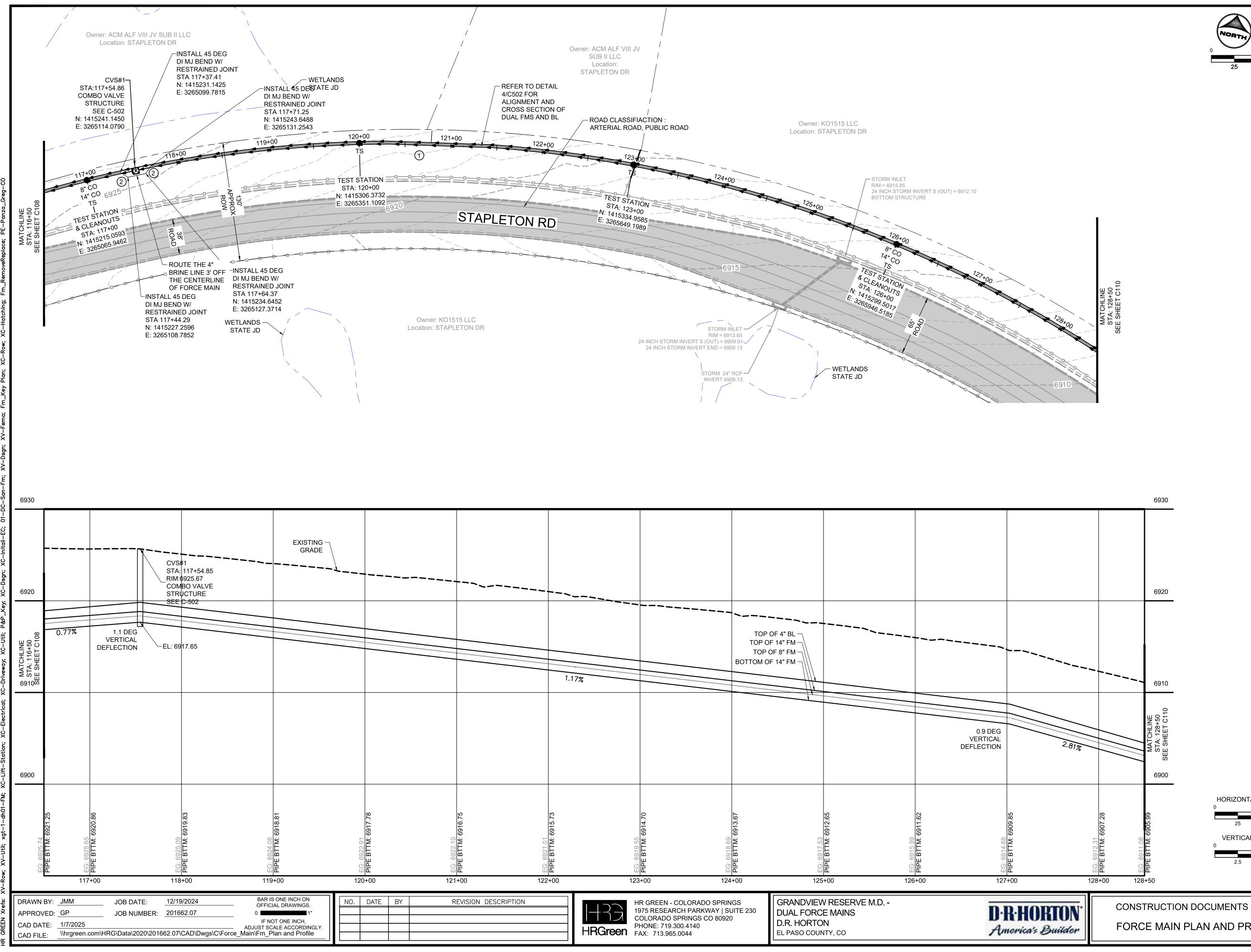


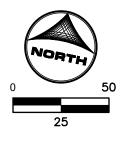


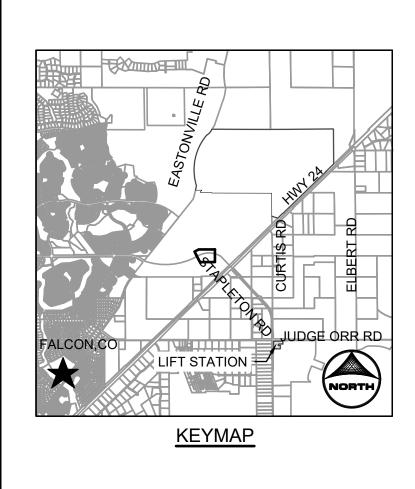




	STAPLETON RD					
		TOP C TOP BOTTOM C				
EG: 6921.88 PIPE BTTM: 6915.96 00+011	EG: 6922.80 PIPE BTTM: 6917.43 111+00	EG: 6923.47 PIPE BTTM: 6918.12 115+00	EG: 6923.93 PIPE BTTM: 6918.81 113+00	EG: 6924.79 PIPE BTTM: 6919.51	EG: 6925.69	PIPE BILIM: 6920.20 8920.20 9020-20 116+ 00 116+
	HR GREEN - COLO 1975 RESEARCH F COLORADO SPRII PHONE: 719.300.4	PARKWAY SUITE 230 NGS CO 80920	GRANDVIEW RE DUAL FORCE MA D.R. HORTON	AINS	D·I	R.HORTON"







GENERAL NOTES:

- 1. NO UNRESTRAINED JOINTS WITHIN 15' OF FITTINGS, ALL DIRECTIONS.
- 2. CONTRACTOR TO SUPPORT ALL UTILITY CROSSINGS THAT ARE NOT CALLED TO BE REMOVED AND REPLACED DURING CONSTRUCTION.
- 3 EXISTING UTILITY ELEVATIONS SHOWN ARE APPROXIMATE.

KEY NOTE:

- 1 INSTALL WARNING TAPE 1 FT ABOVE VENT PIPE EXTENSION FROM COMBO VALVE VAULT TO WHERE VENT PIPE DAYLIGHTS.
- 2 PROVIDE PE WRAP AND CATHODIC PROTECTION AT EACH DUCTILE IRON FITTING.

CDPHE DESIGN REVIEW DOCUMENT SUBMITTAL NOT FOR CONSTRUCTION

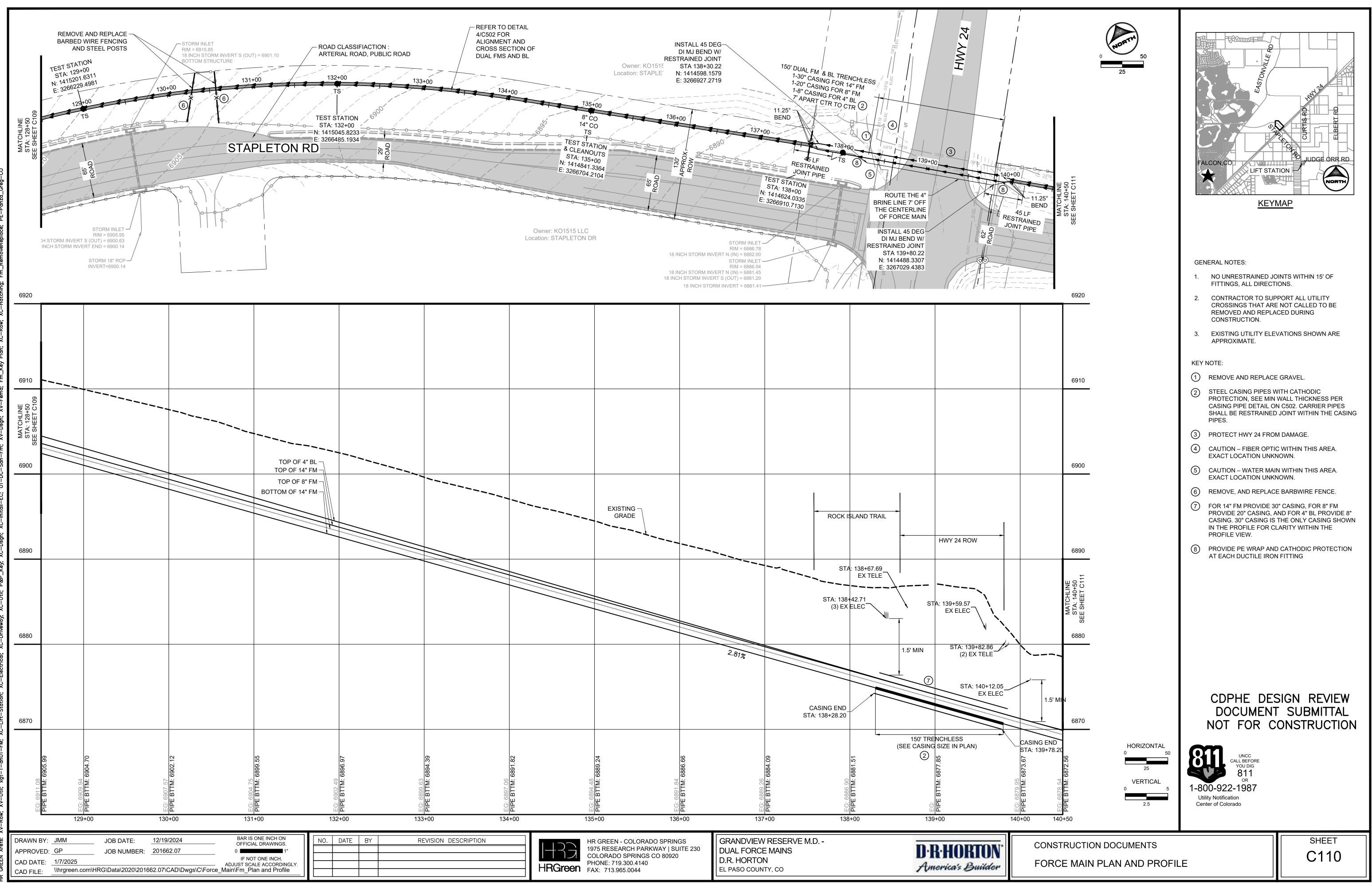


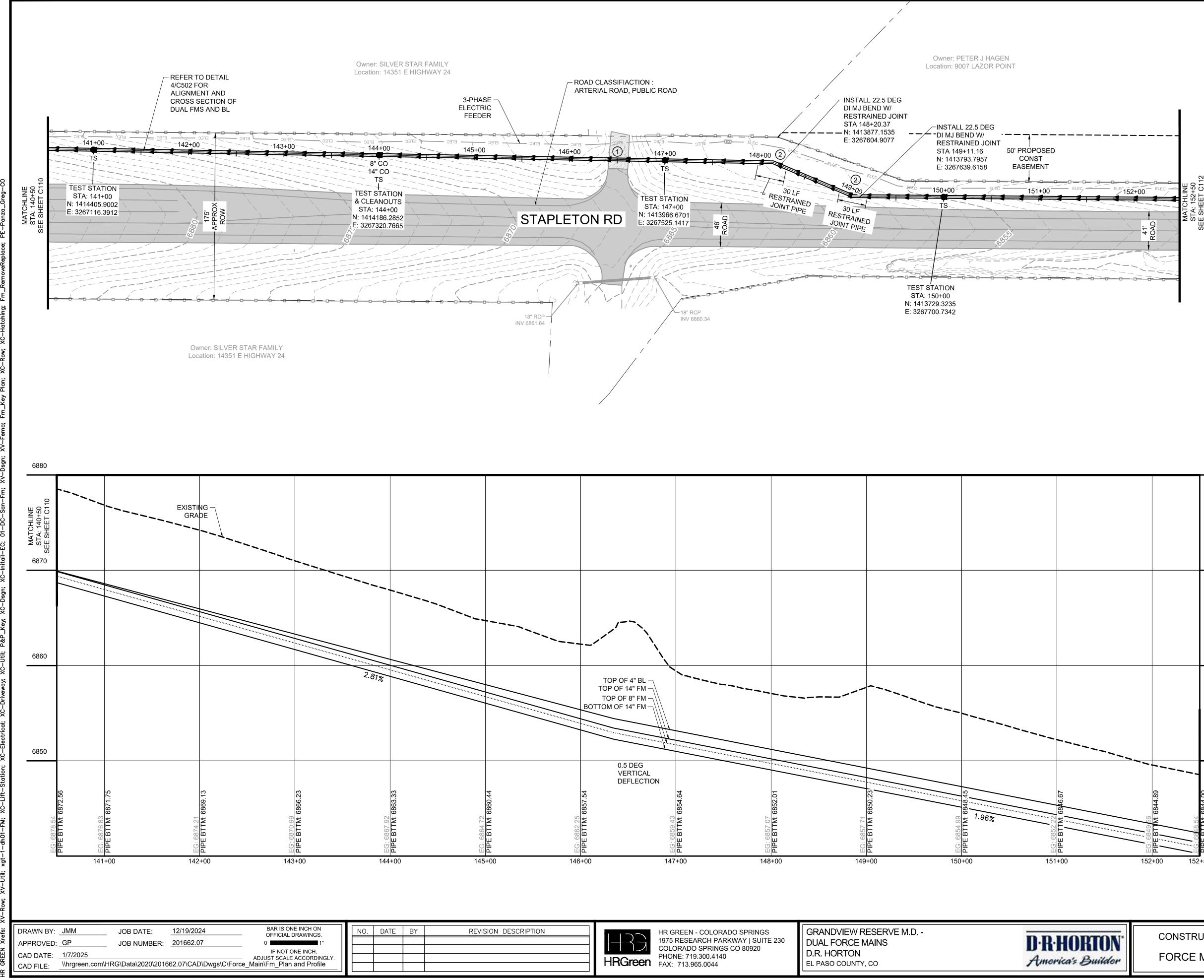


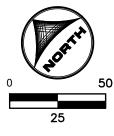
HORIZONTAL

VERTICAL

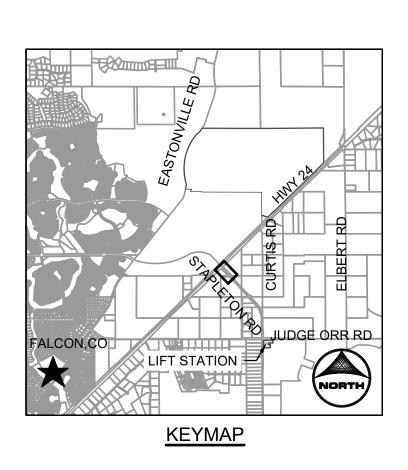
2.5







HORIZONTAL VERTICAL



GENERAL NOTES:

- 1. NO UNRESTRAINED JOINTS WITHIN 15' OF FITTINGS, ALL DIRECTIONS.
- 2. CONTRACTOR TO SUPPORT ALL UTILITY CROSSINGS THAT ARE NOT CALLED TO BE REMOVED AND REPLACED DURING CONSTRUCTION.
- 3. EXISTING UTILITY ELEVATIONS SHOWN ARE APPROXIMATE.

KEY NOTE:

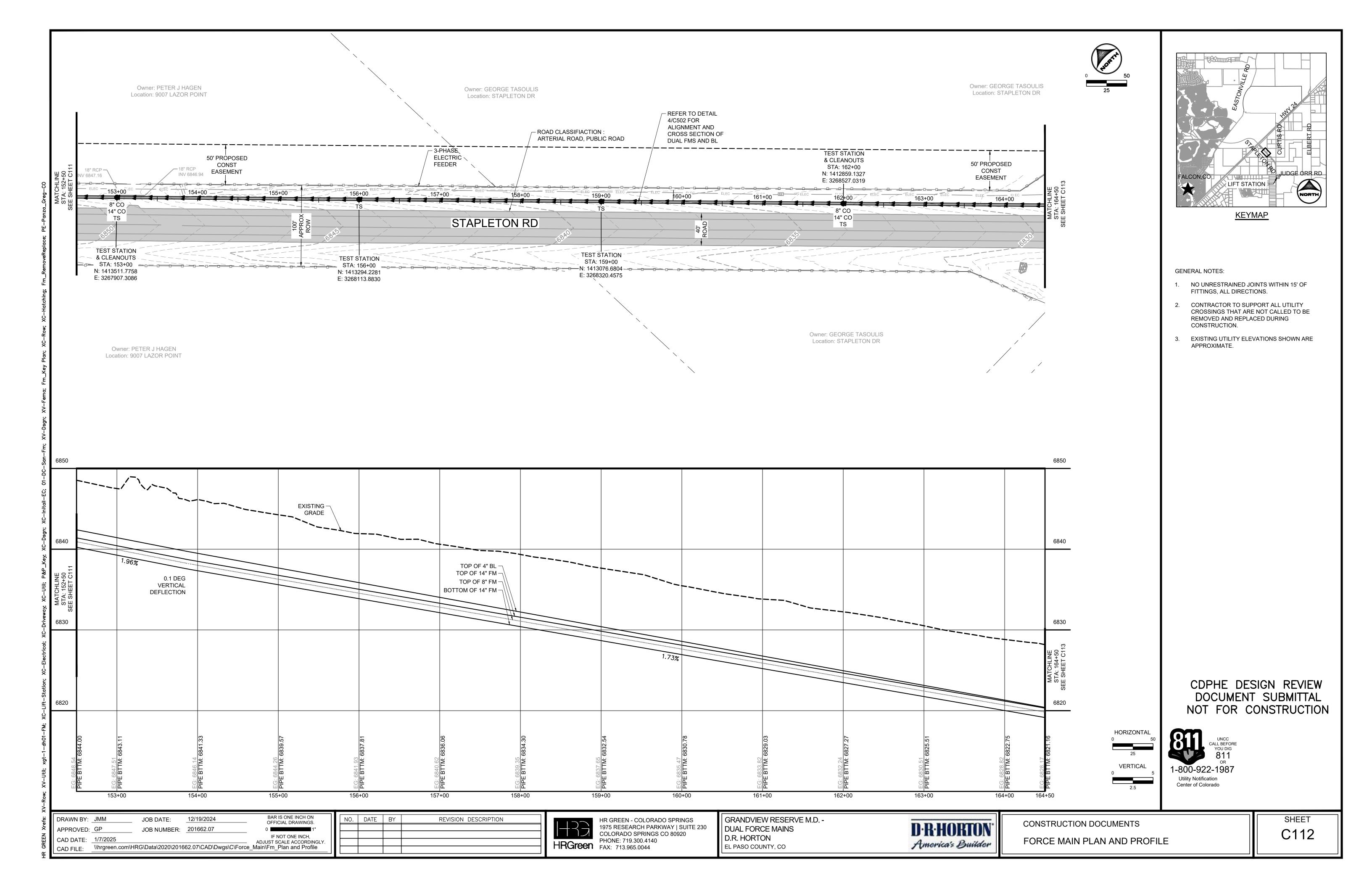
- 1 REMOVE AND REPLACE ASPHALT PAVEMENT AND GRAVEL SURFACING.
- 2 PROVIDE PE WRAP AND CATHODIC PROTECTION AT EACH DUCTILE IRON FITTING.

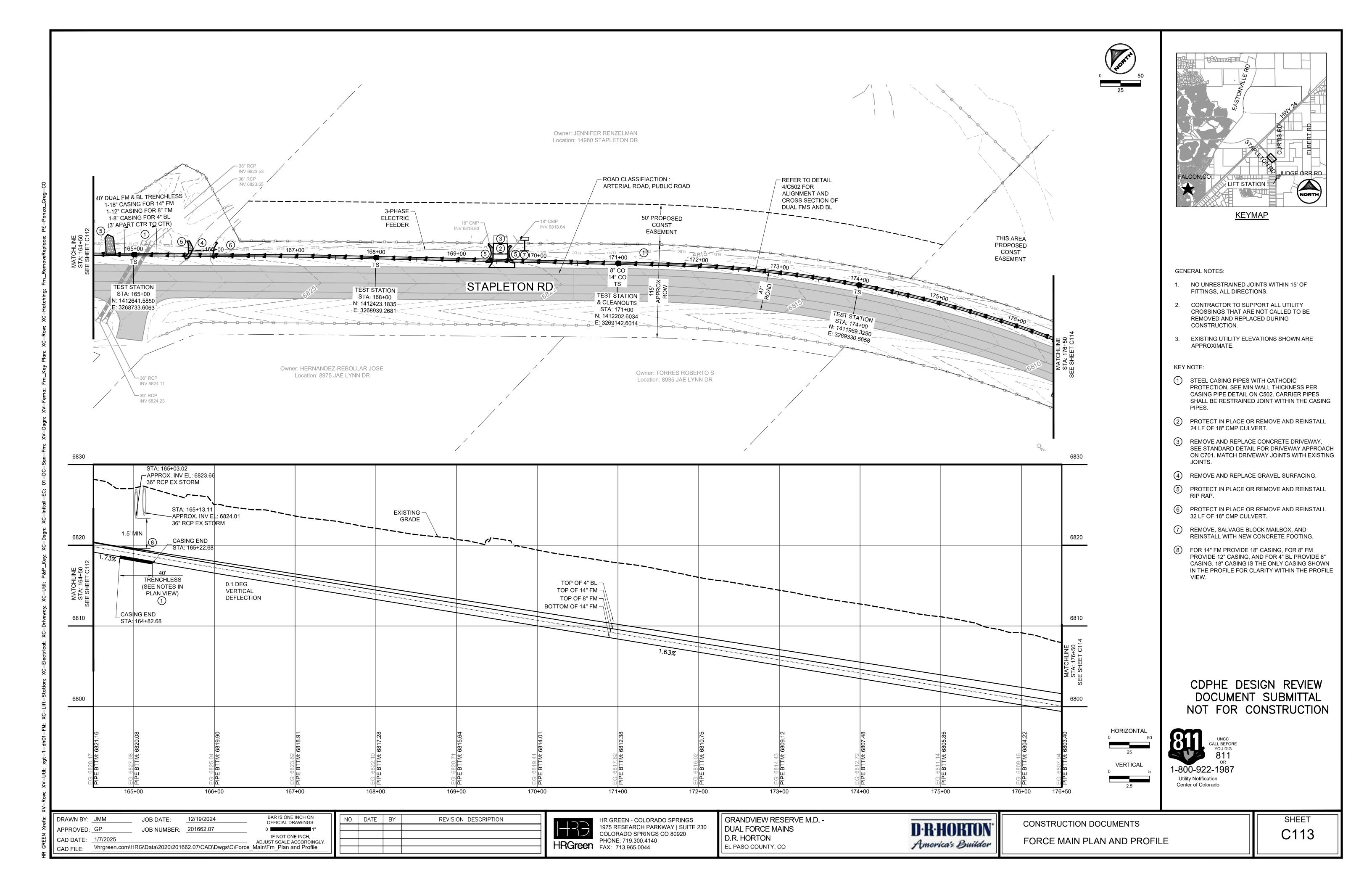
CDPHE DESIGN REVIEW DOCUMENT SUBMITTAL NOT FOR CONSTRUCTION

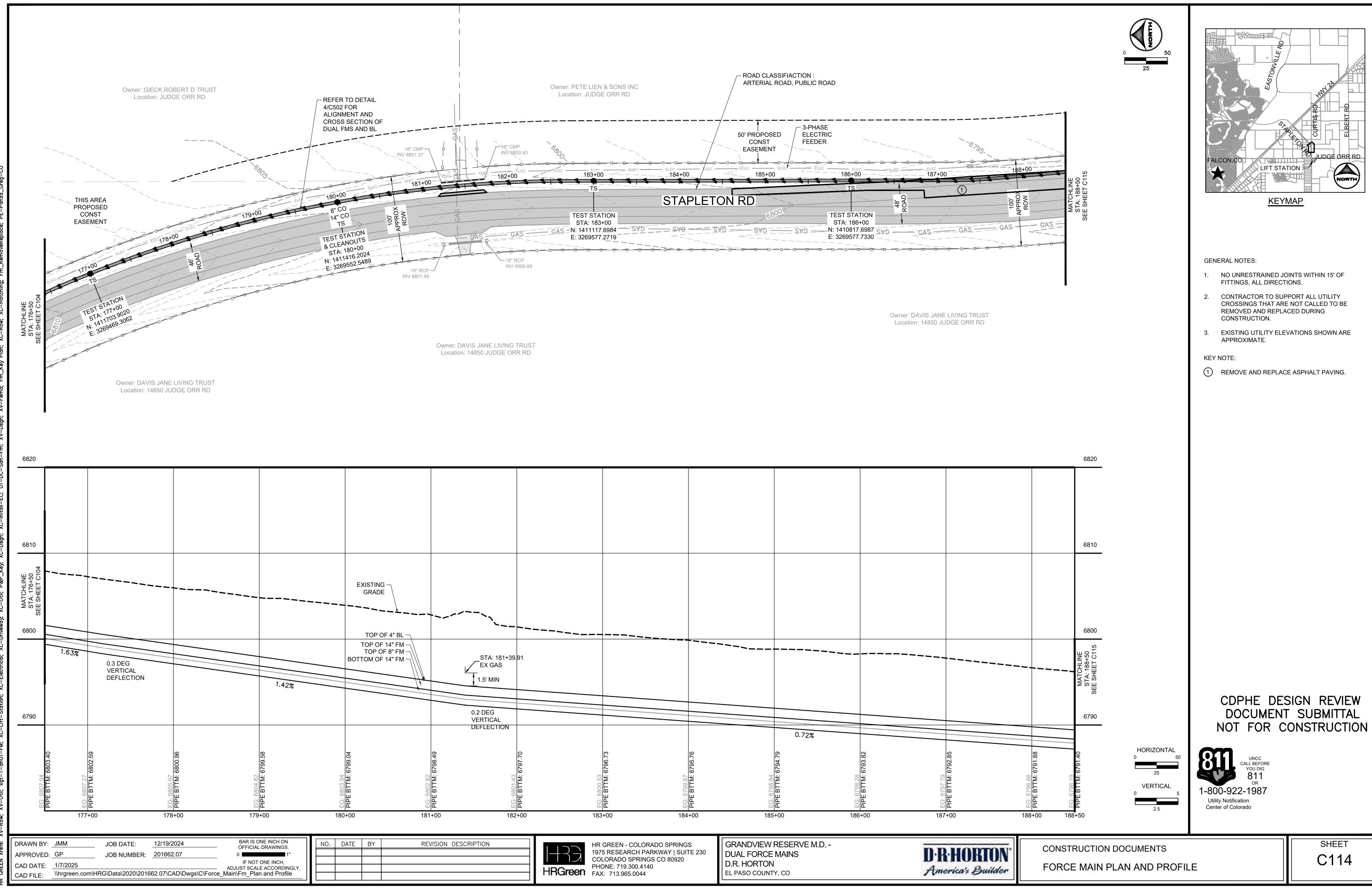


CONSTRUCTION DOCUMENTS FORCE MAIN PLAN AND PROFILE

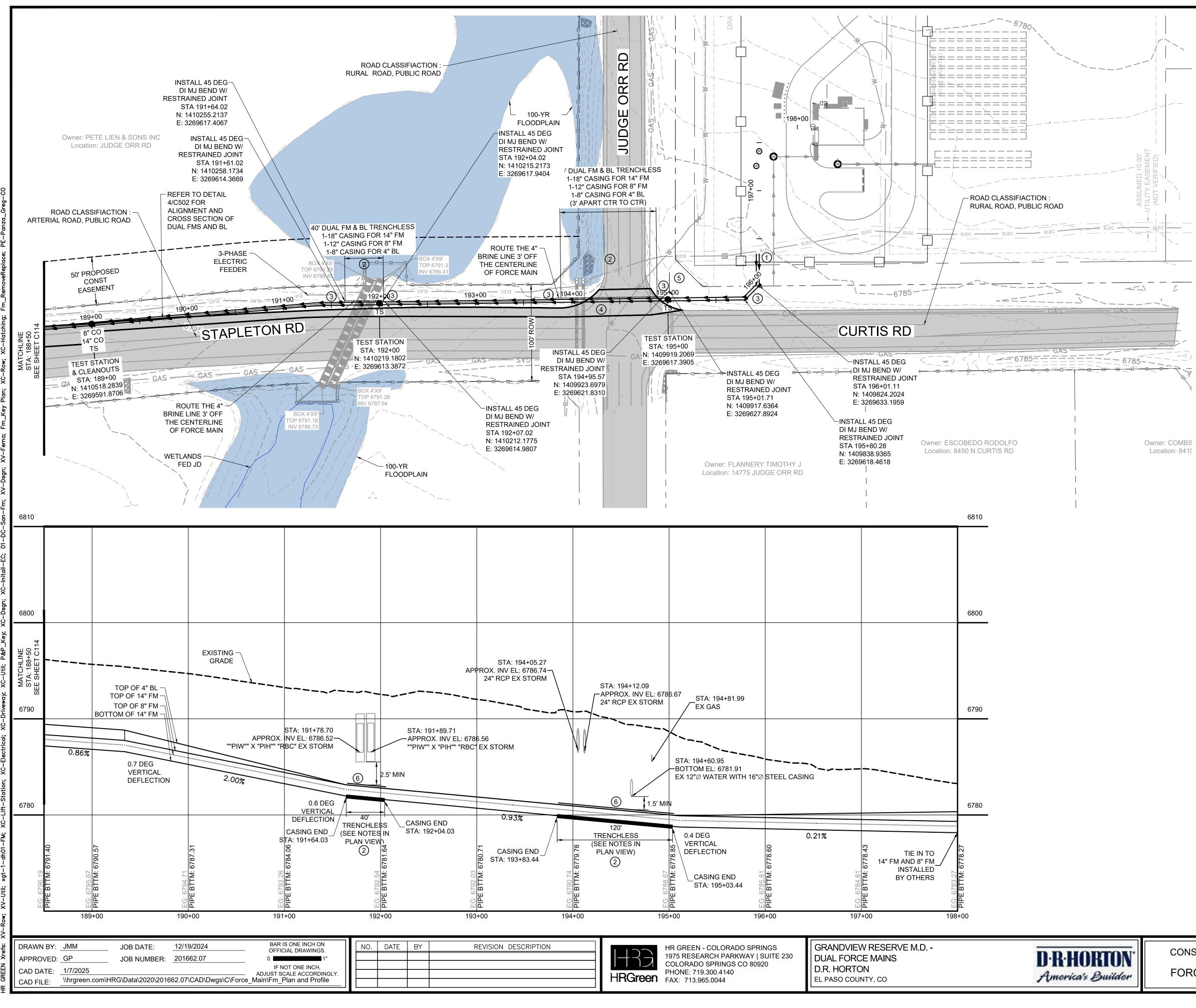
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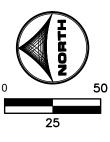


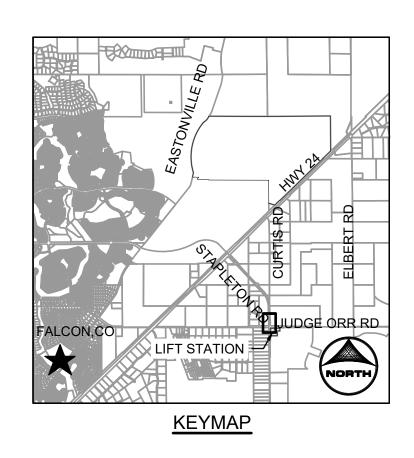




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TA: 181+39.9 (GAS MIN EG							
EC: 6801.43 PIPE RTTM: 6797 70	EG: 6800.53 PIPE BTTM: 6796.73	EG: 6/99.8/ PIPE BTTM: 6795.76	EG: 6798.84	0.72%	EG: 6798.28 PIPE BTTM: 6793.82	EG: 6797.79 PIPE BTTM: 6792.85	EG: 6796.66
182+(N	HR GREEN - COLORADO SPRIN 1975 RESEARCH PARKWAY SU COLORADO SPRINGS CO 80920 PHONE: 719.300.4140 FAX: 713.965.0044	94+00 GS IITE 230	185 GRANDVIEW DUAL FORCE D.R. HORTON EL PASO COUNT	RESERVE M.D MAINS	186+00	187+00 •R•HORTON Imerica's Builde	188-







GENERAL NOTES:

- 1. NO UNRESTRAINED JOINTS WITHIN 15' OF FITTINGS, ALL DIRECTIONS.
- CONTRACTOR TO SUPPORT ALL UTILITY 2 CROSSINGS THAT ARE NOT CALLED TO BE REMOVED AND REPLACED DURING CONSTRUCTION.
- 3. EXISTING UTILITY ELEVATIONS SHOWN ARE APPROXIMATE.

KEY NOTE:

- (1)TIE INTO 14" FORCE MAIN AND 8" FORCE MAIN INSTALLED BY OTHERS. PROVIDE PVC CAPS IF CONNECTIONS ARE NOT READY TO BE MADE. SEE GRANDVIEW LIFT STATION CONSTRUCTION DOCUMENTS.
- 2 STEEL CASING PIPES WITH CATHODIC PROTECTION, SEE MIN WALL THICKNESS PER CASING PIPE DETAIL ON C502. CARRIER PIPES SHALL BE RESTRAINED JOINT WITHIN THE CASING PIPES.
- (3) PROVIDE PE WRAP AND CATHODIC PROTECTION AT FITTING.
- (4) REMOVE AND REPLACE ASPHALT PAVING.
- (5) CAUTION FIBER OPTIC WITHIN THIS AREA. EXACT LOCATION UNKNOWN.
- 6 FOR 14" FM PROVIDE 18" CASING, FOR 8" FM PROVIDE 12" CASING, AND FOR 4" BL PROVIDE 8" CASING. 18" CASING IS THE ONLY CASING SHOWN IN THE PROFILE FOR CLARITY WITHIN THE PROFILE VIEW.

CDPHE DESIGN REVIEW DOCUMENT SUBMITTAL NOT FOR CONSTRUCTION



HORIZONTAL VERTICAL



FORCE MAIN PLAN AND PROFILE

C115

SHEET

STANDARD NOTES FOR 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 POLLUTION 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 EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE. THE ENGINEERING CRITERIA MANUAL. THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 3. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- 4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT 5. COULD CONTRIBUTE POLLUTANTS TO STORMWATER, CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- 6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- 7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- 9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- 10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- 11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- 12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- 13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS. INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- 14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER, 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.

- 19. APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- 20. ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- 21.
- FACILITIES.
- OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OR REGULATIONS SHALL APPLY.
- ACCESS POINTS.

- 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY CONSIDERED A PART OF THESE PLANS.
- 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.

DRAWN BY: <u>JMM</u> APPROVED: <u>GP</u> CAD DATE: <u>1/7/2025</u> CAD FILE: <u>\\hrgreen.com\</u>	JOB NUMBER: <u>201662.07</u>	- OFFICIAL DRAWINGS. - 0 1" - 1" - 1F NOT ONE INCH, - ADJUST SCALE ACCORDINGLY.	NO.	DATE	BY	REVISION DESCRIPTION	
							L

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.

THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER

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

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

23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER

24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES,

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

26. PRIOR TO CONSTRUCTION THE PERMITTEE 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.

AND SHALL BE

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

PERMANENT SEED SPECS

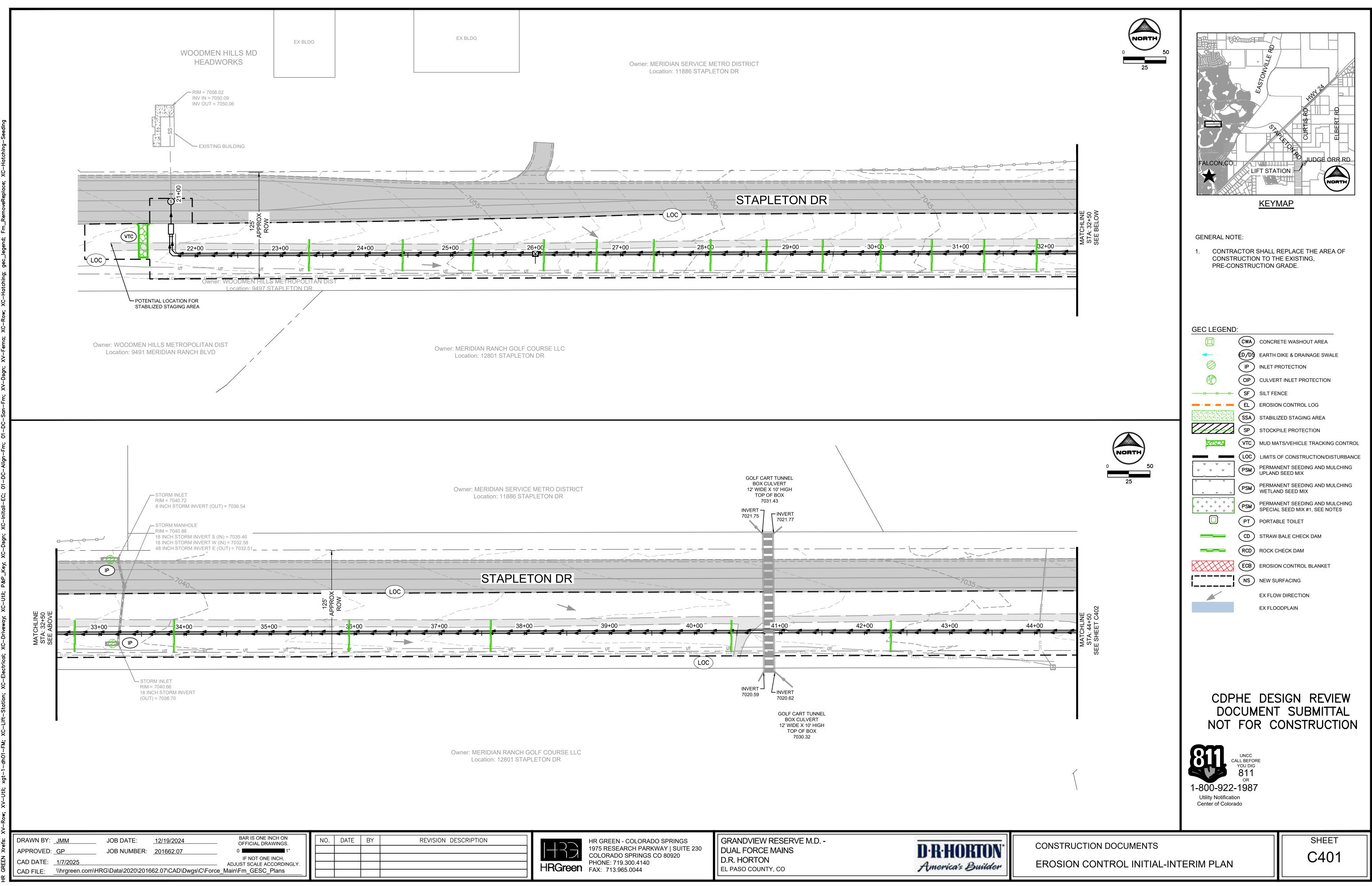
SPECIAL SEED MIX #1 - TBD SPECIAL ON PRIVATE LAND - LANDOWNER WILL WATER. 2. SEE LEGEND AND EROSION CONTROL DETAILS FOR SEED MIX/TYPE.

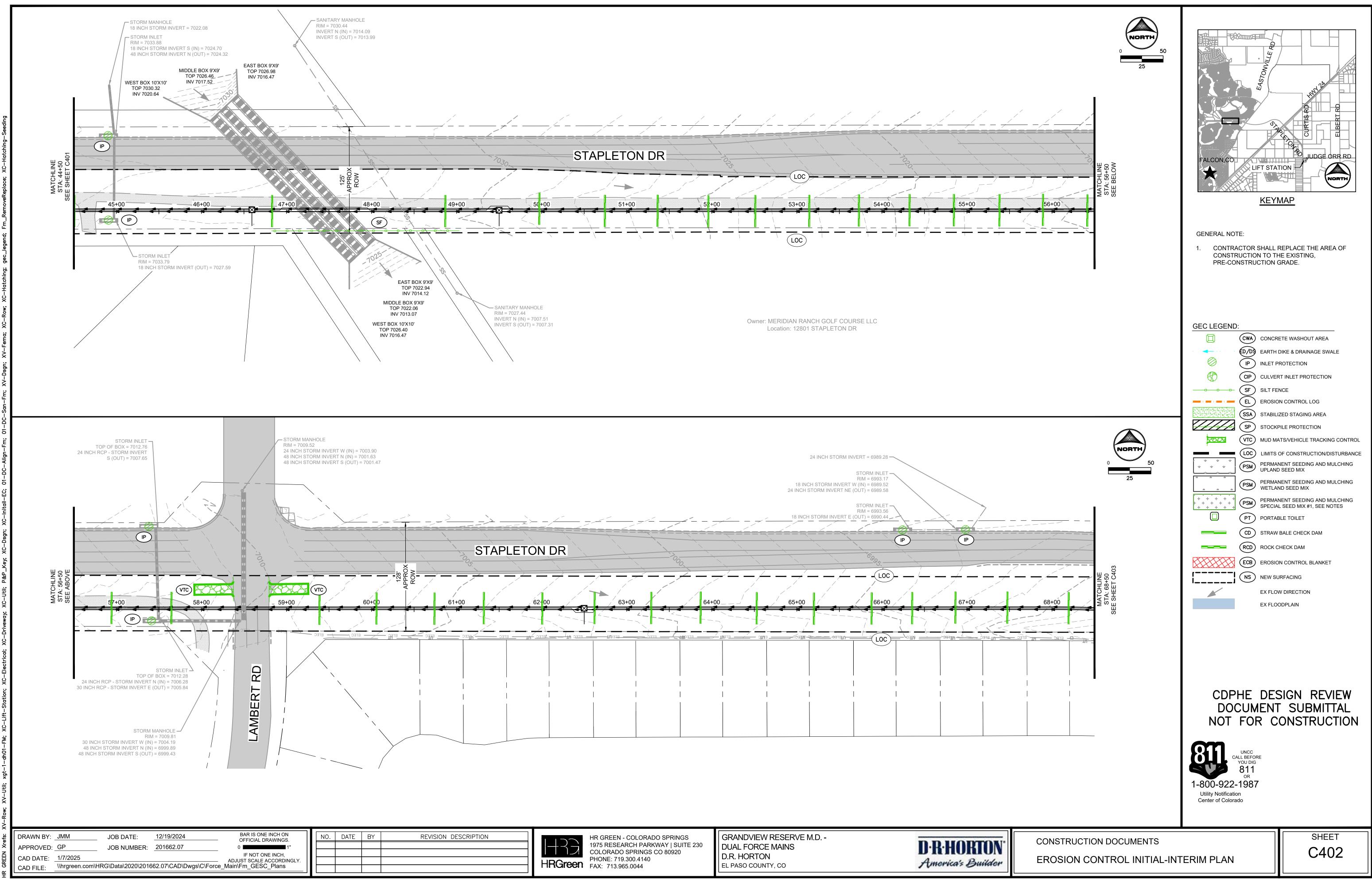


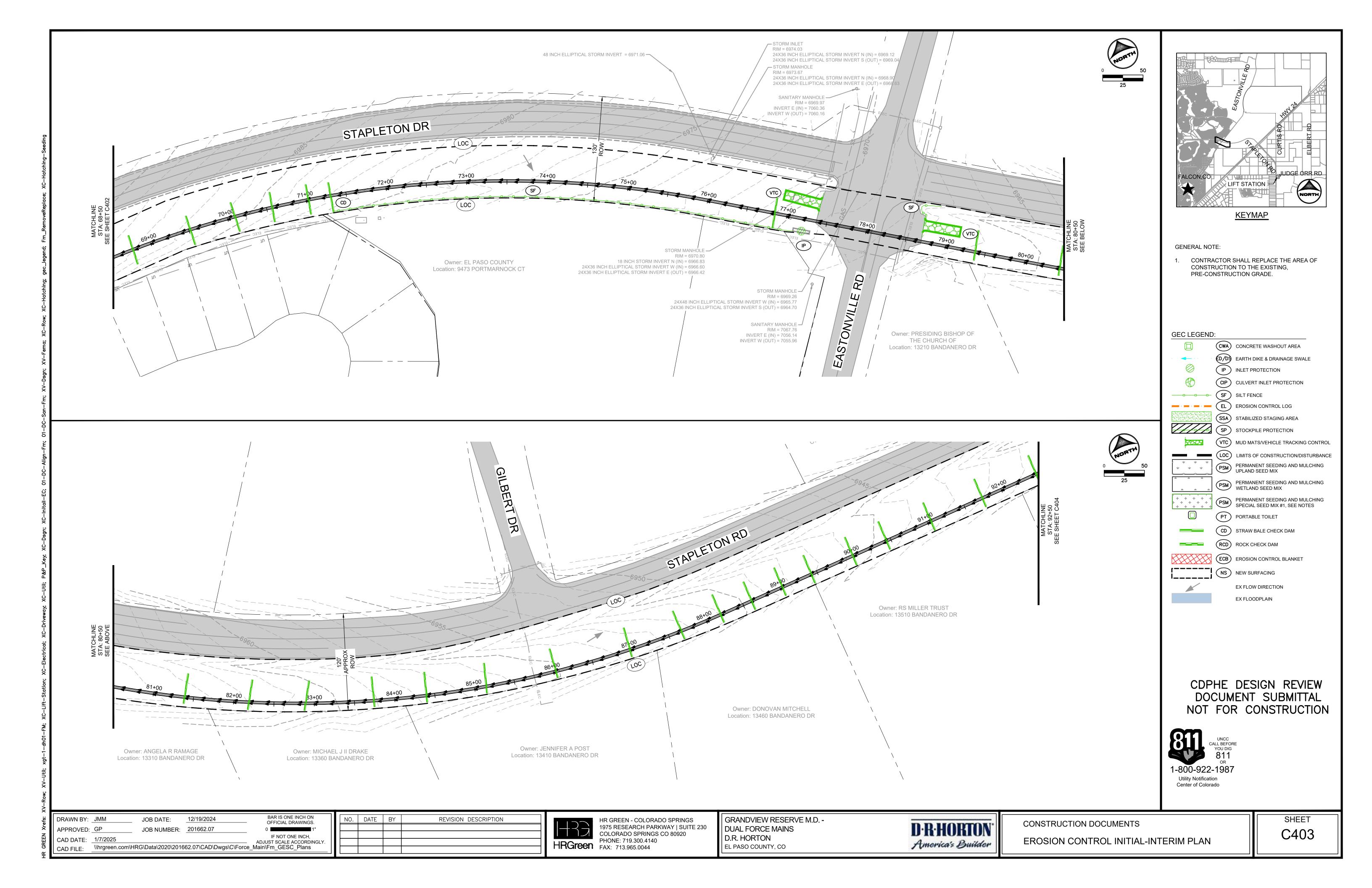
CONSTRUCTION DOCUMENTS
GRADING AND EROSION CONTROL NOTES

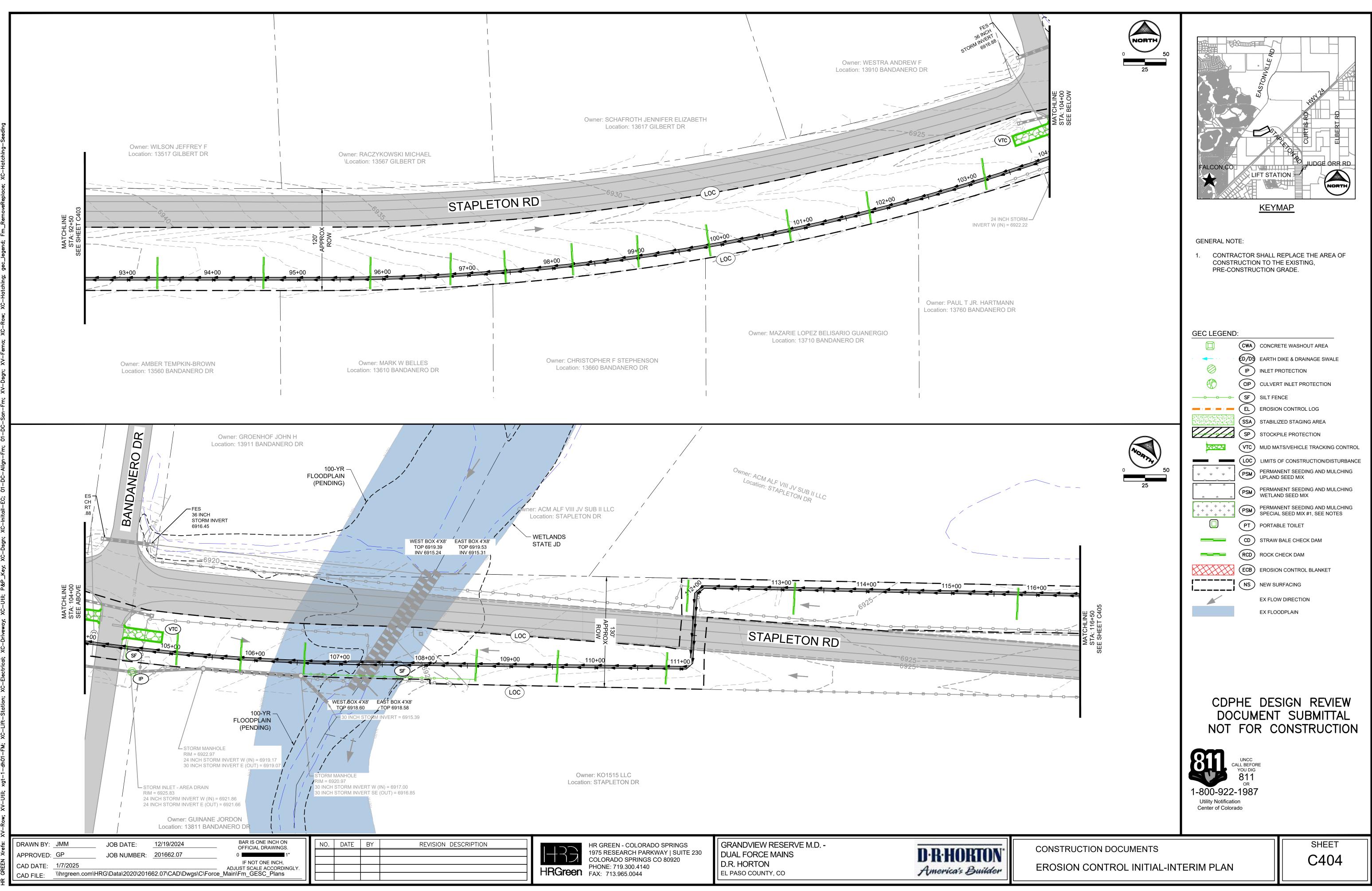
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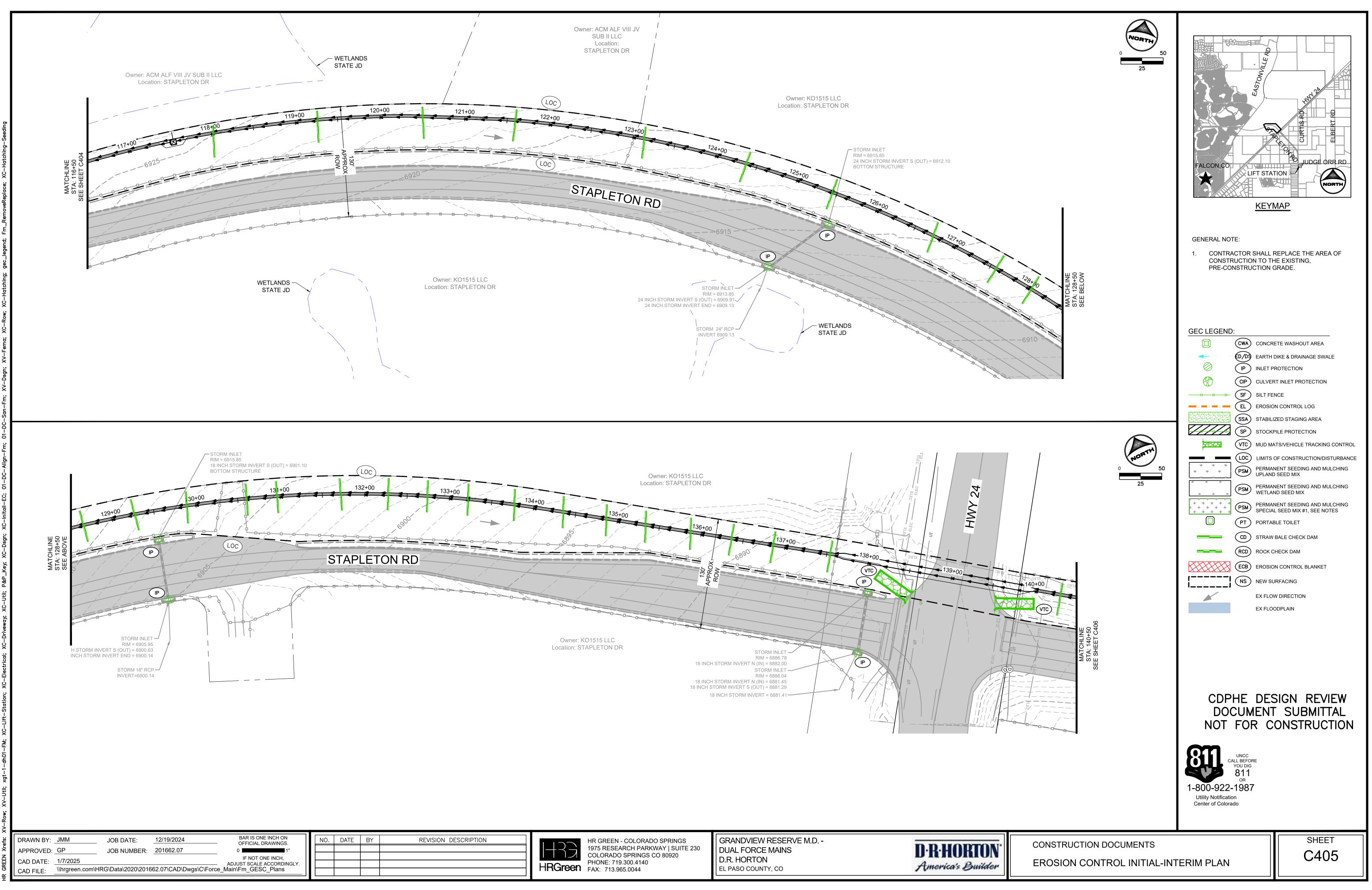
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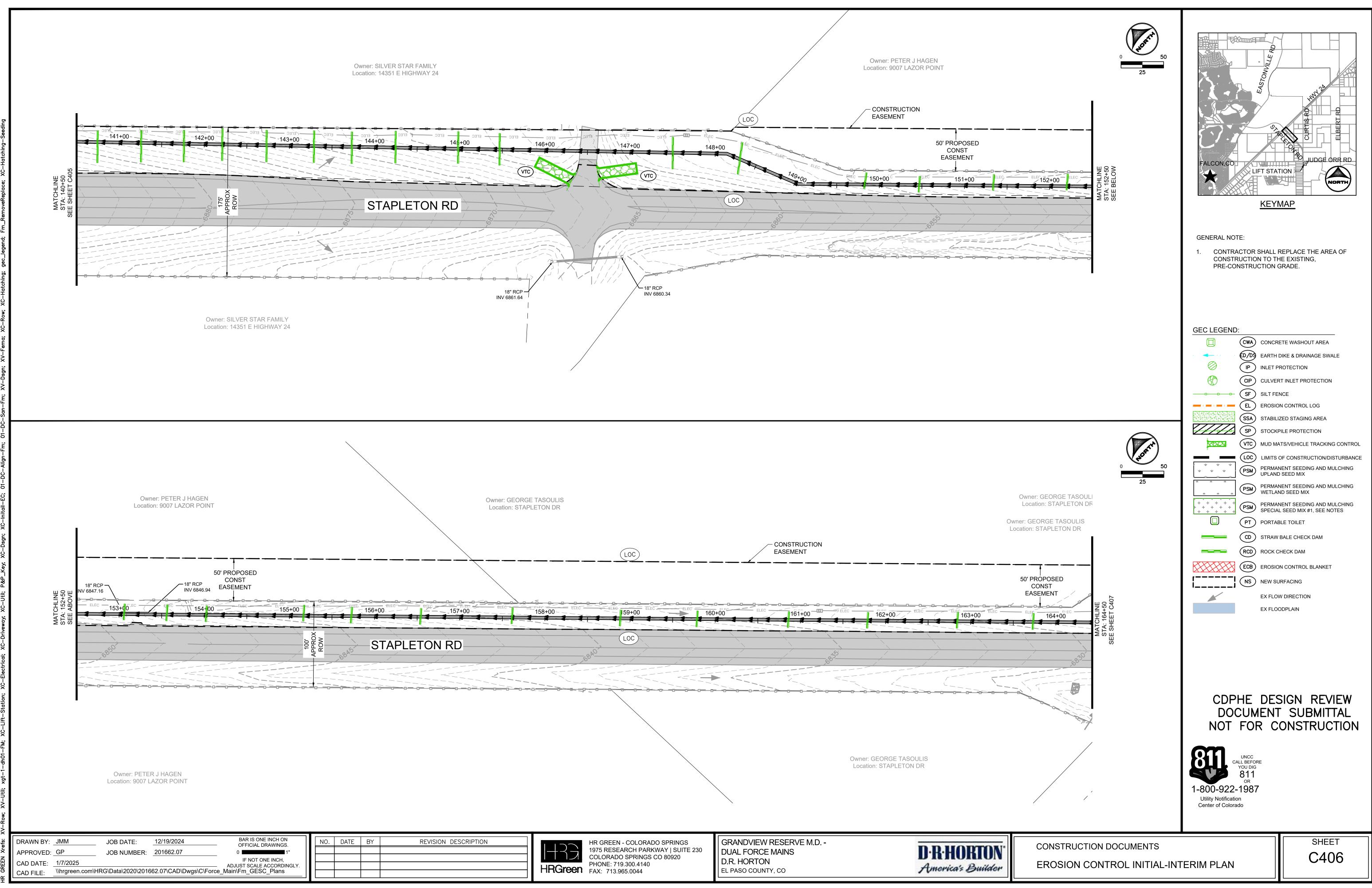


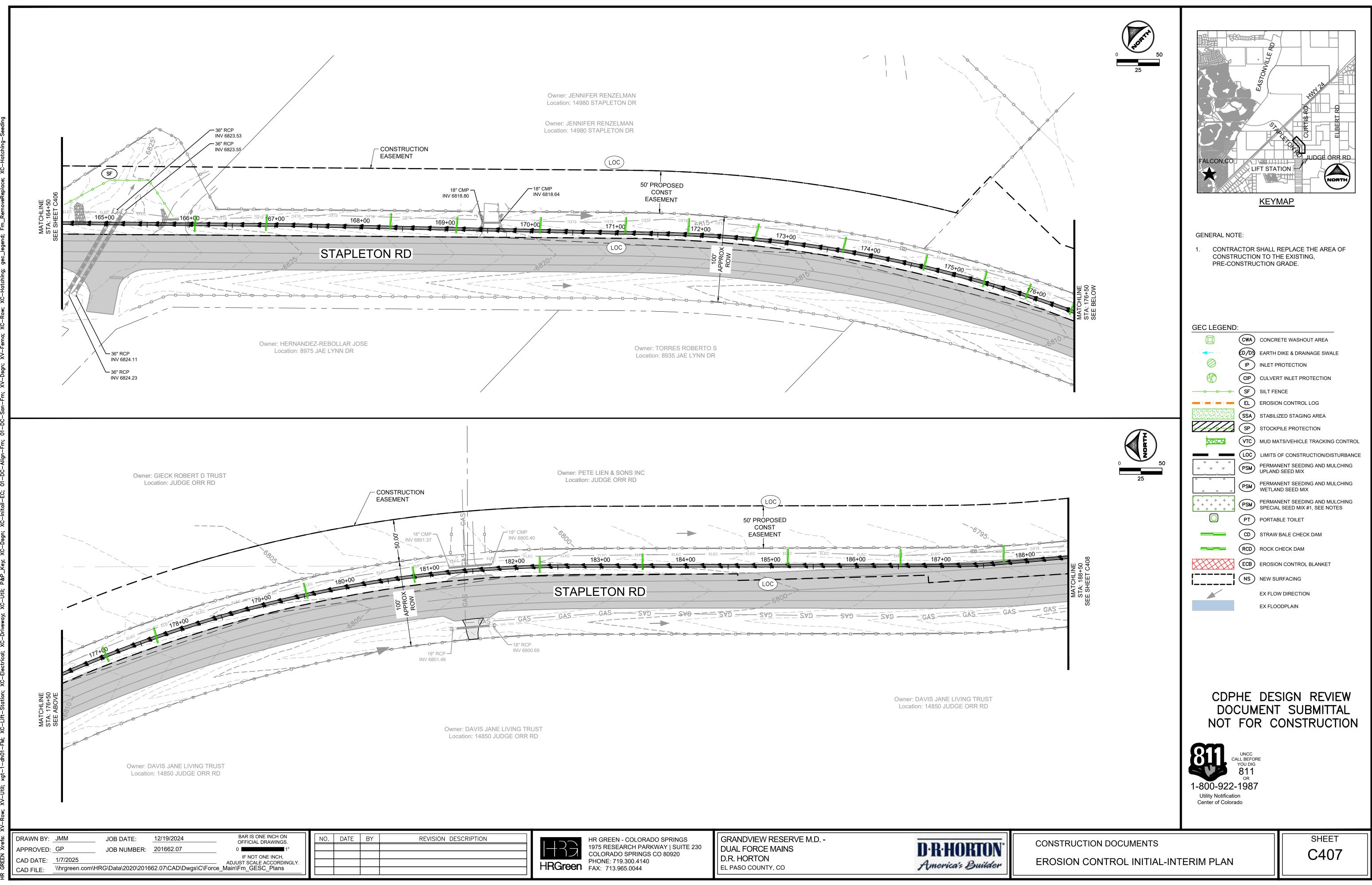


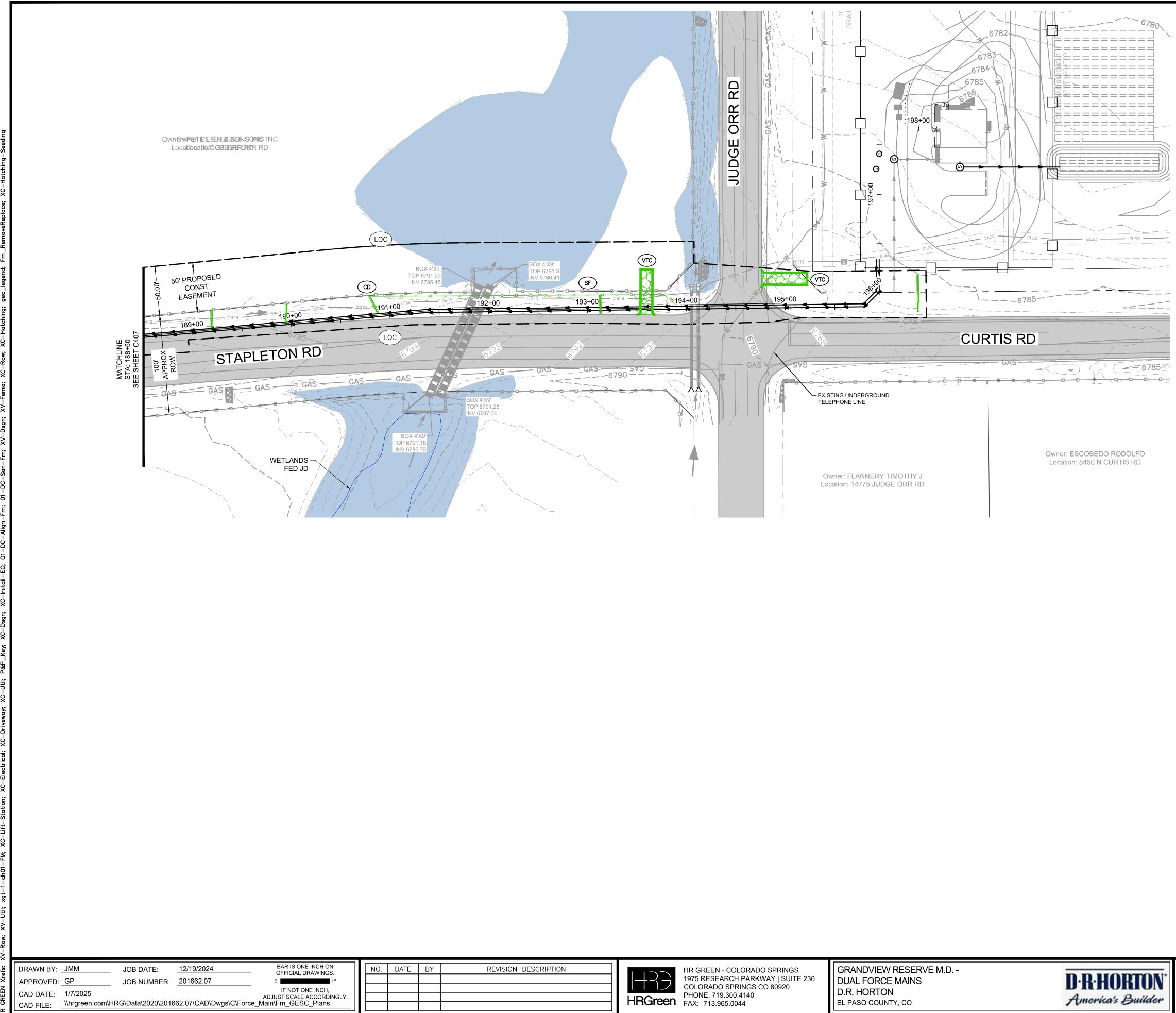


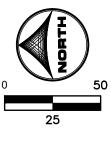


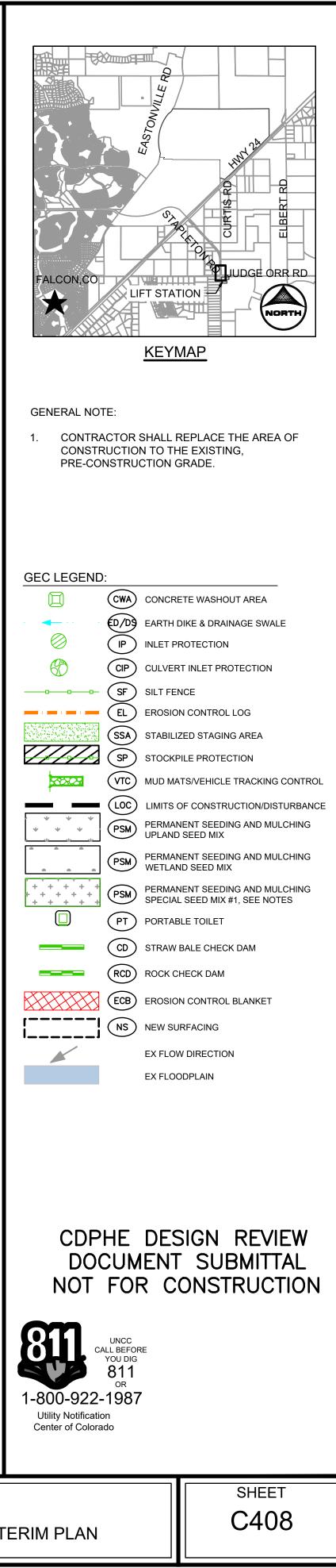




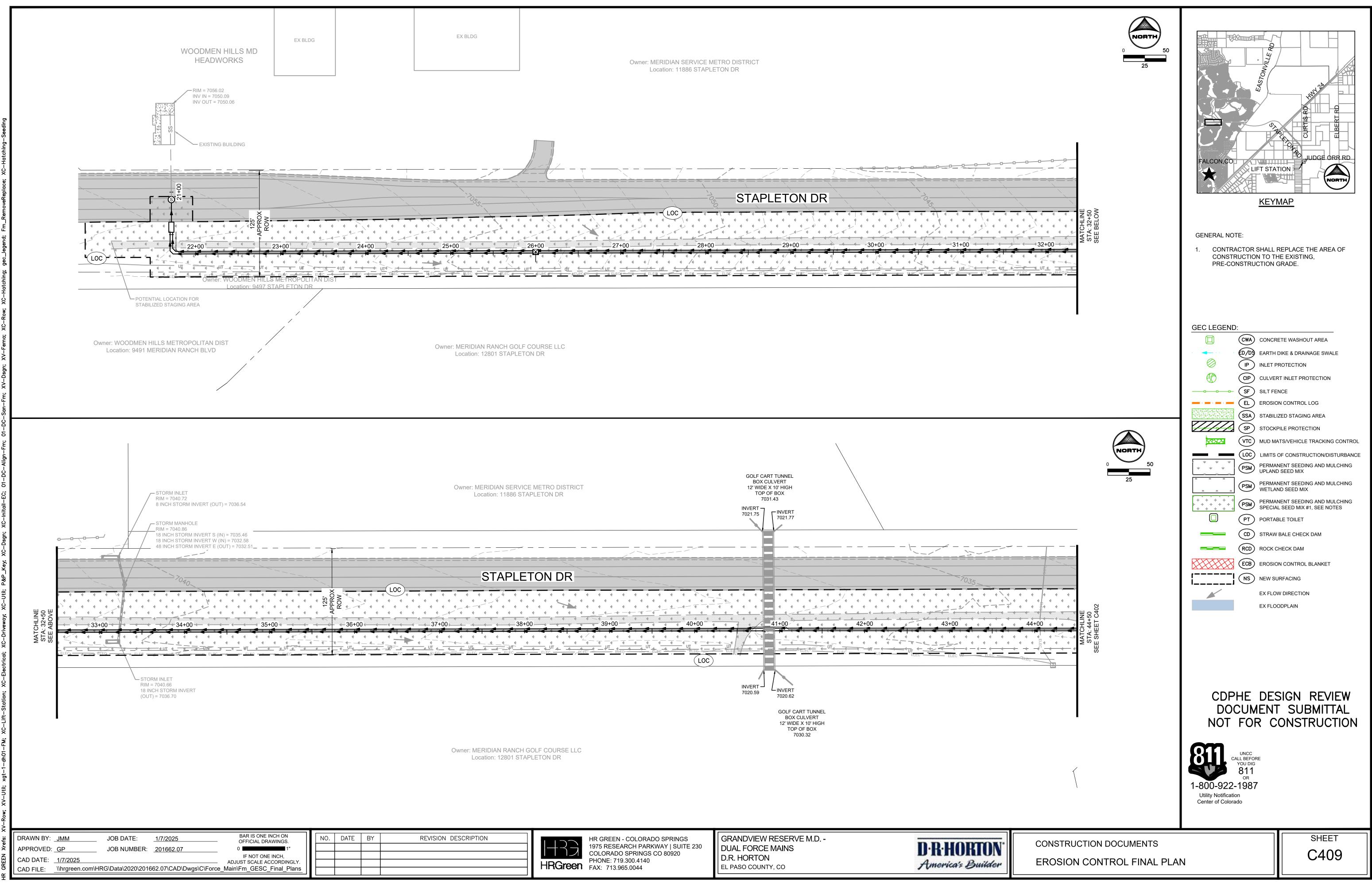


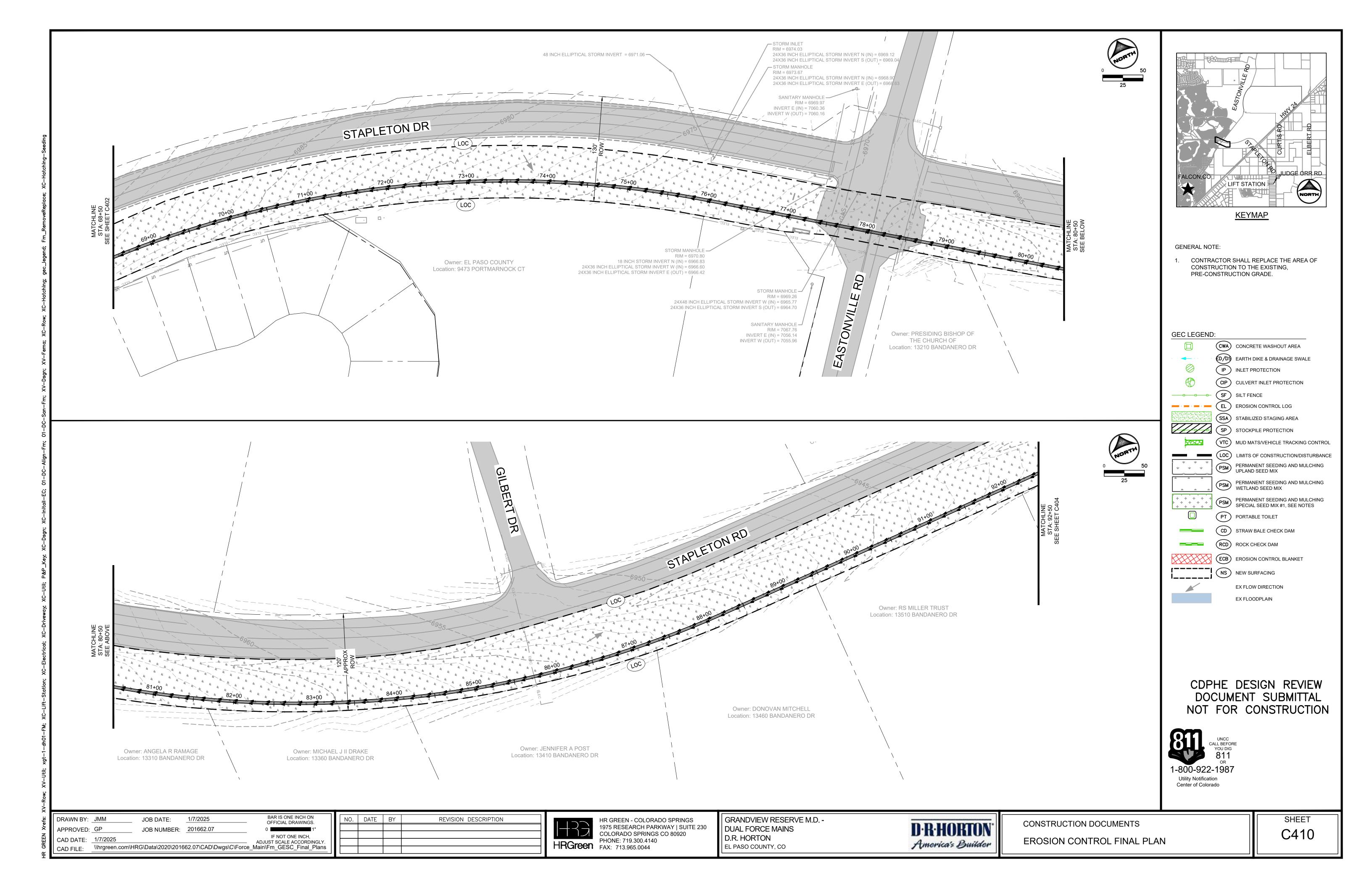


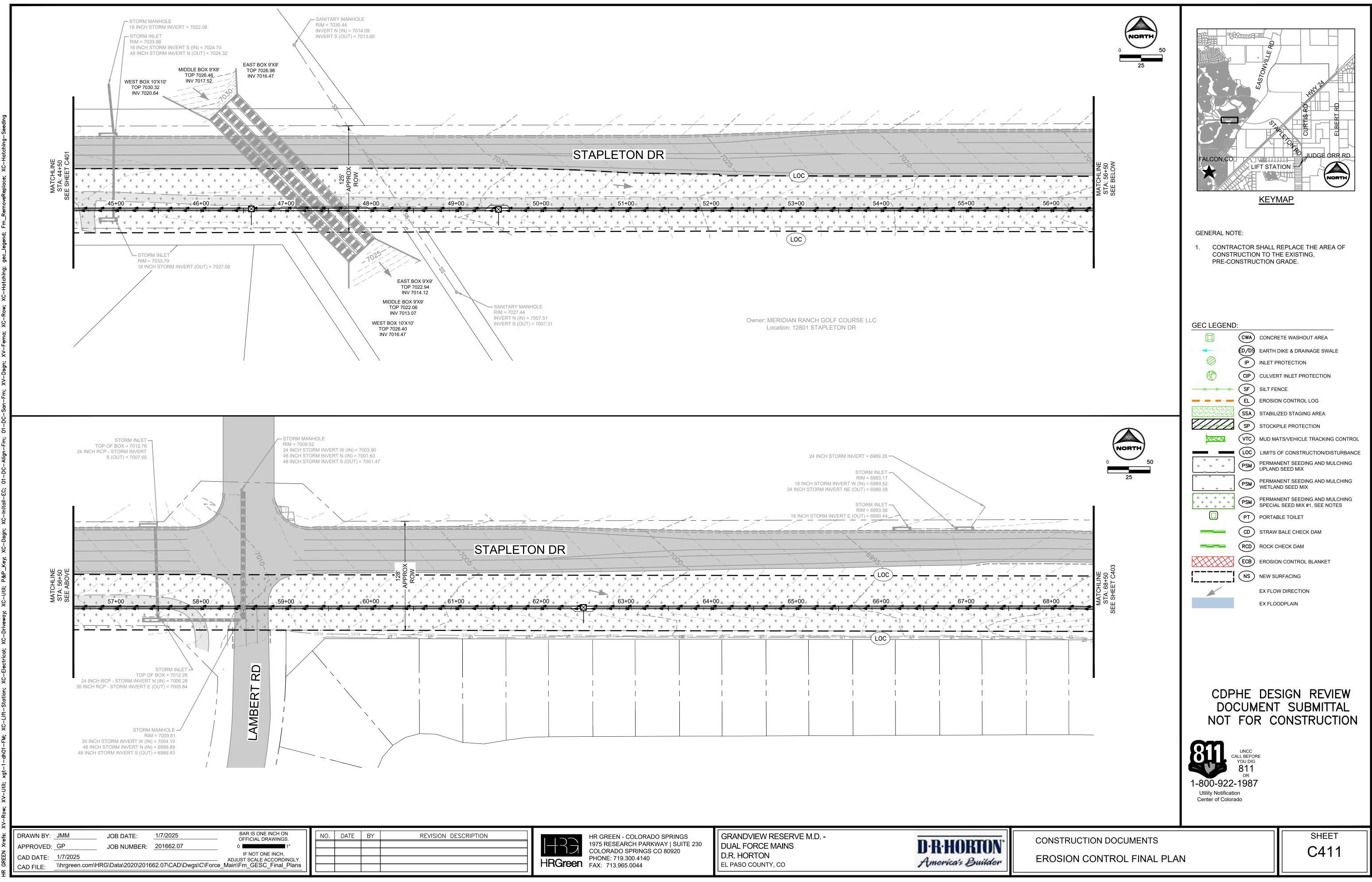


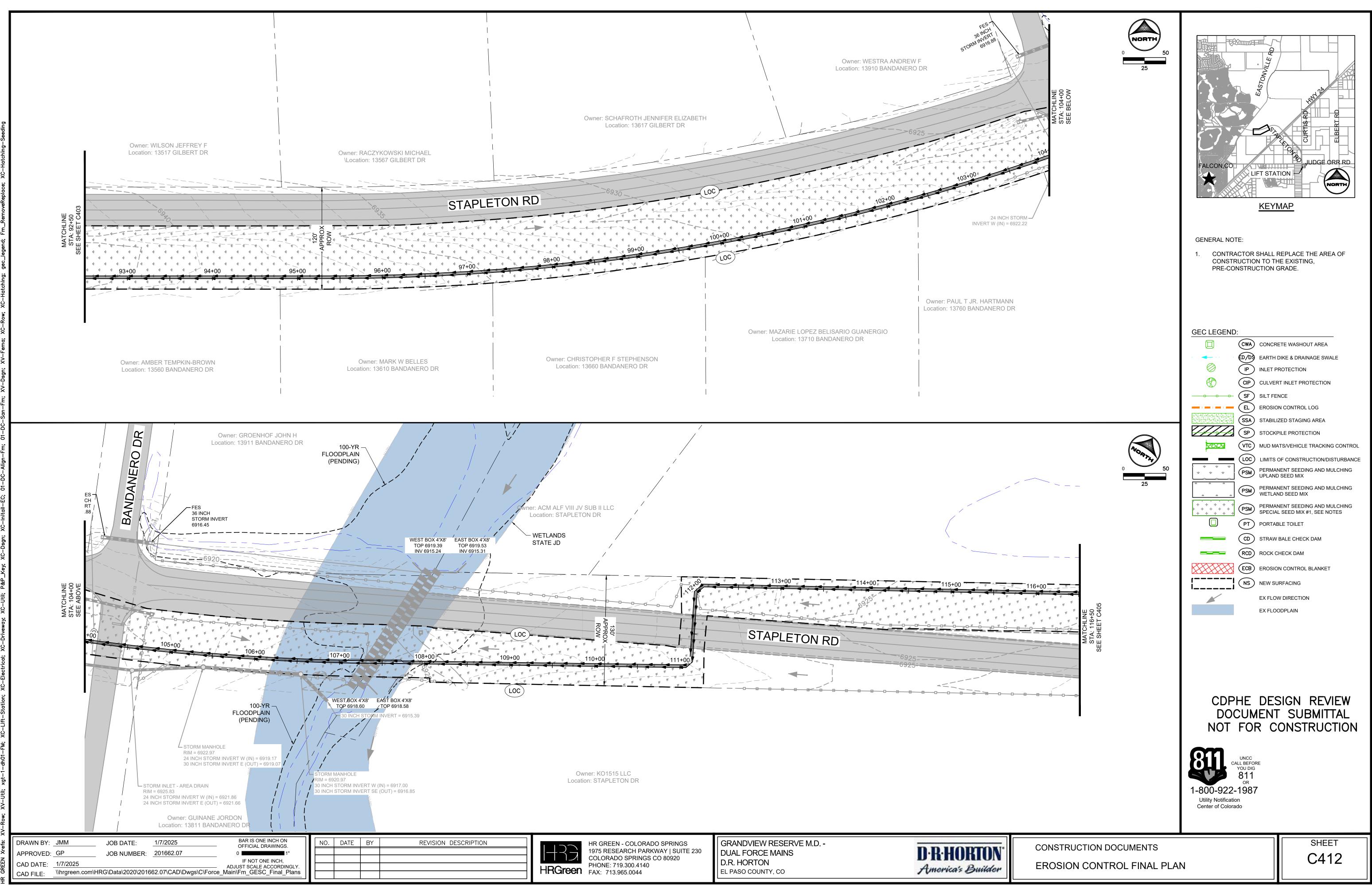


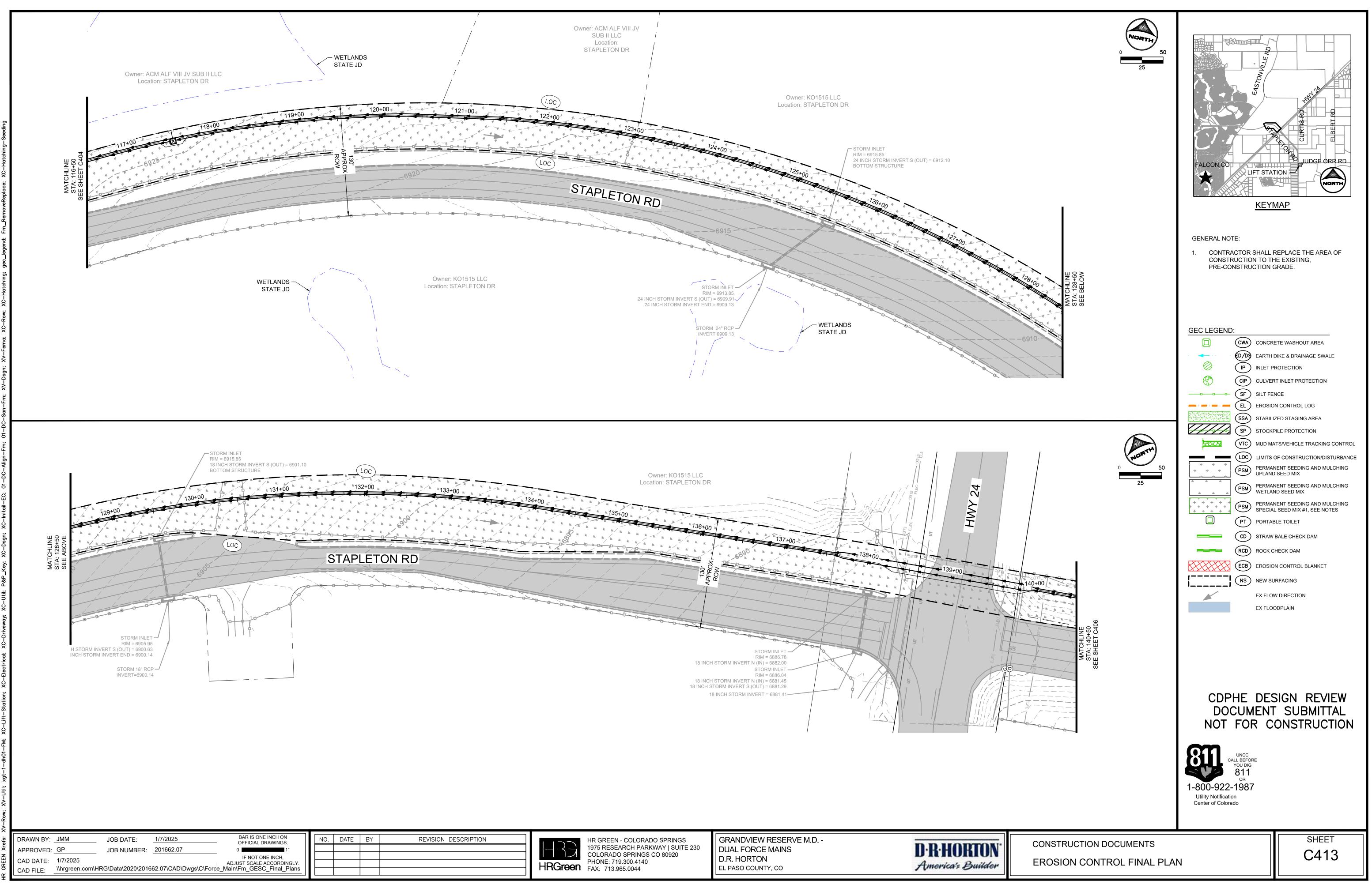
CONSTRUCTION DOCUMENTS EROSION CONTROL INITIAL-INTERIM PLAN

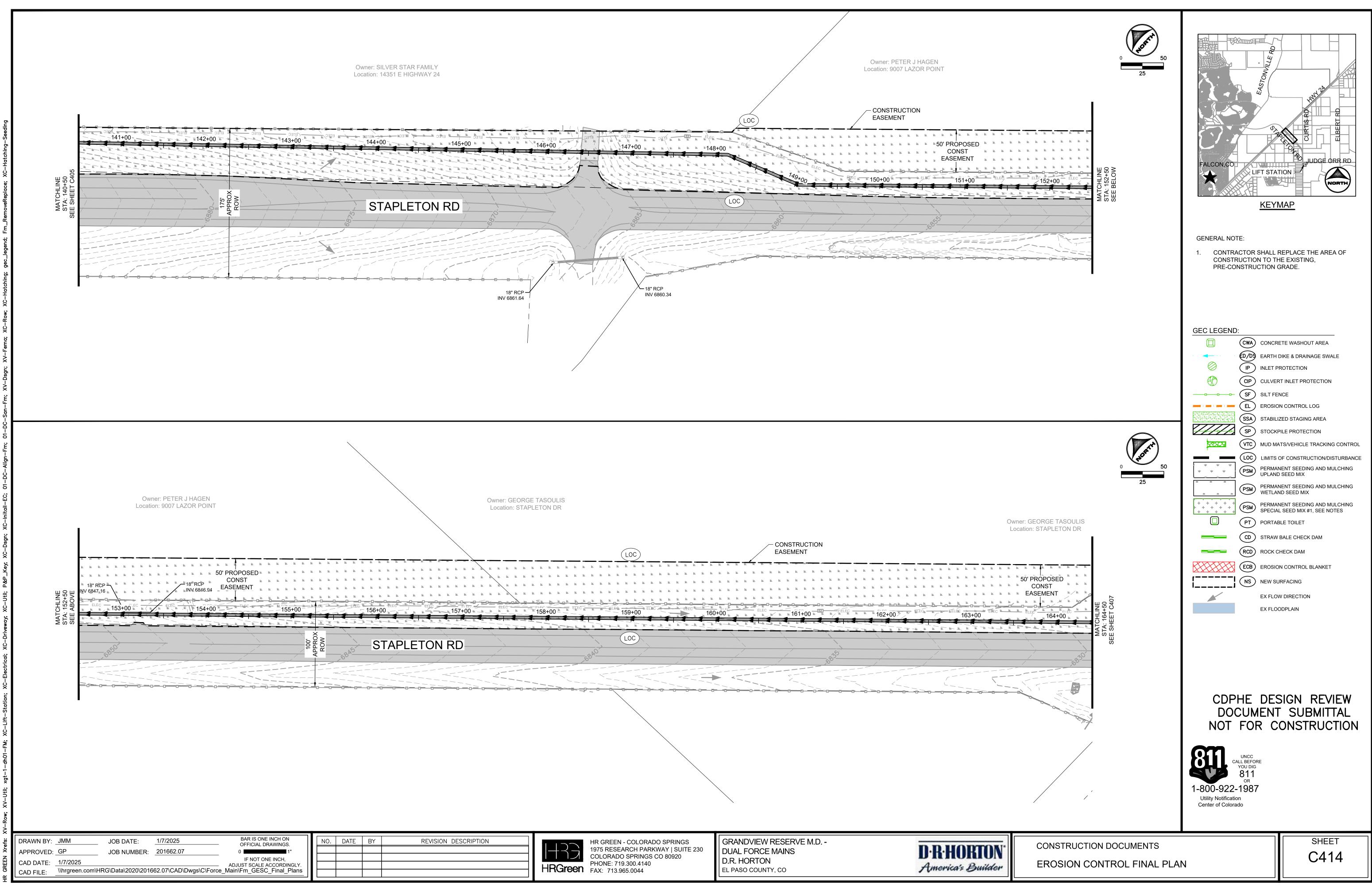


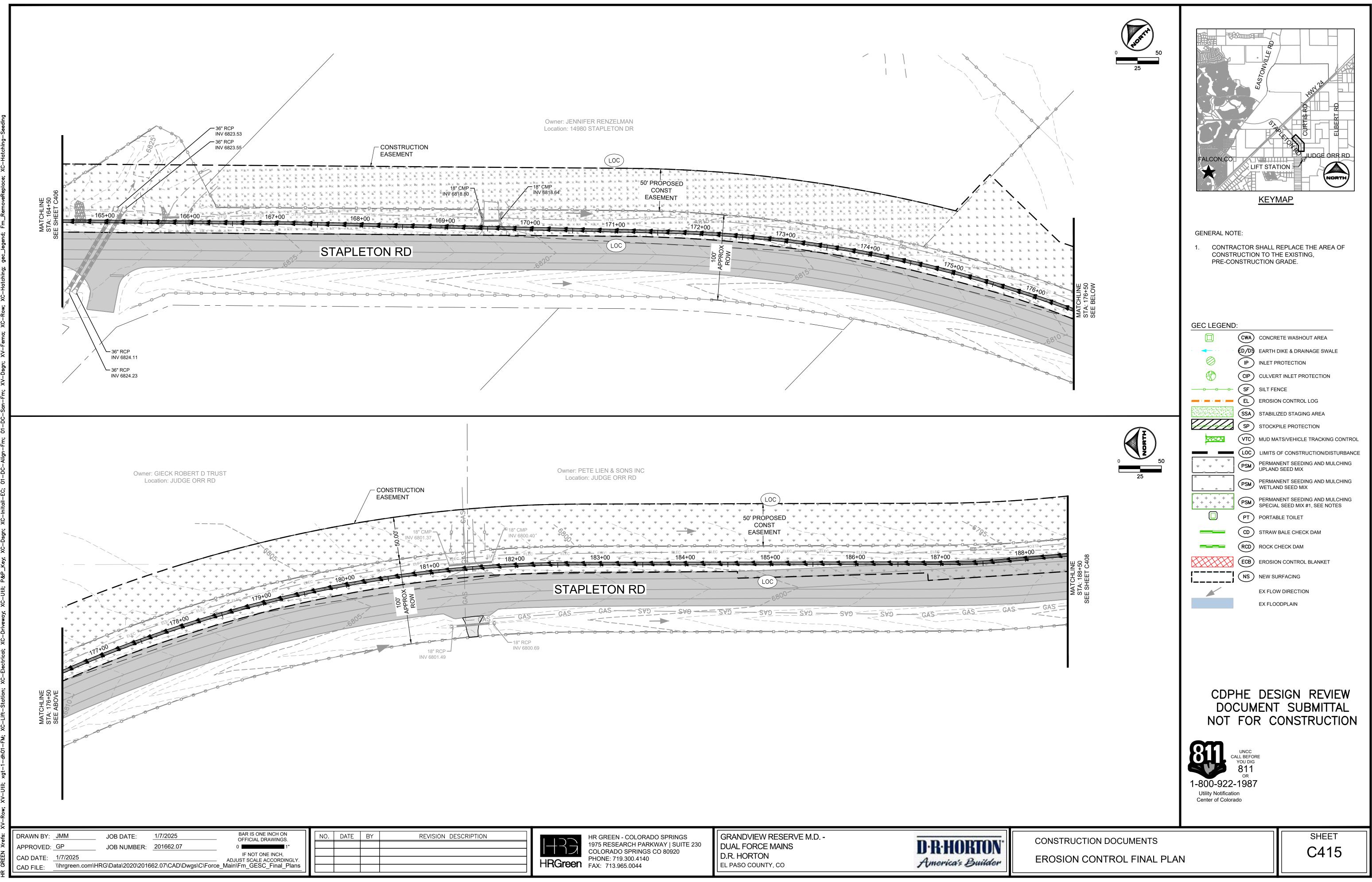




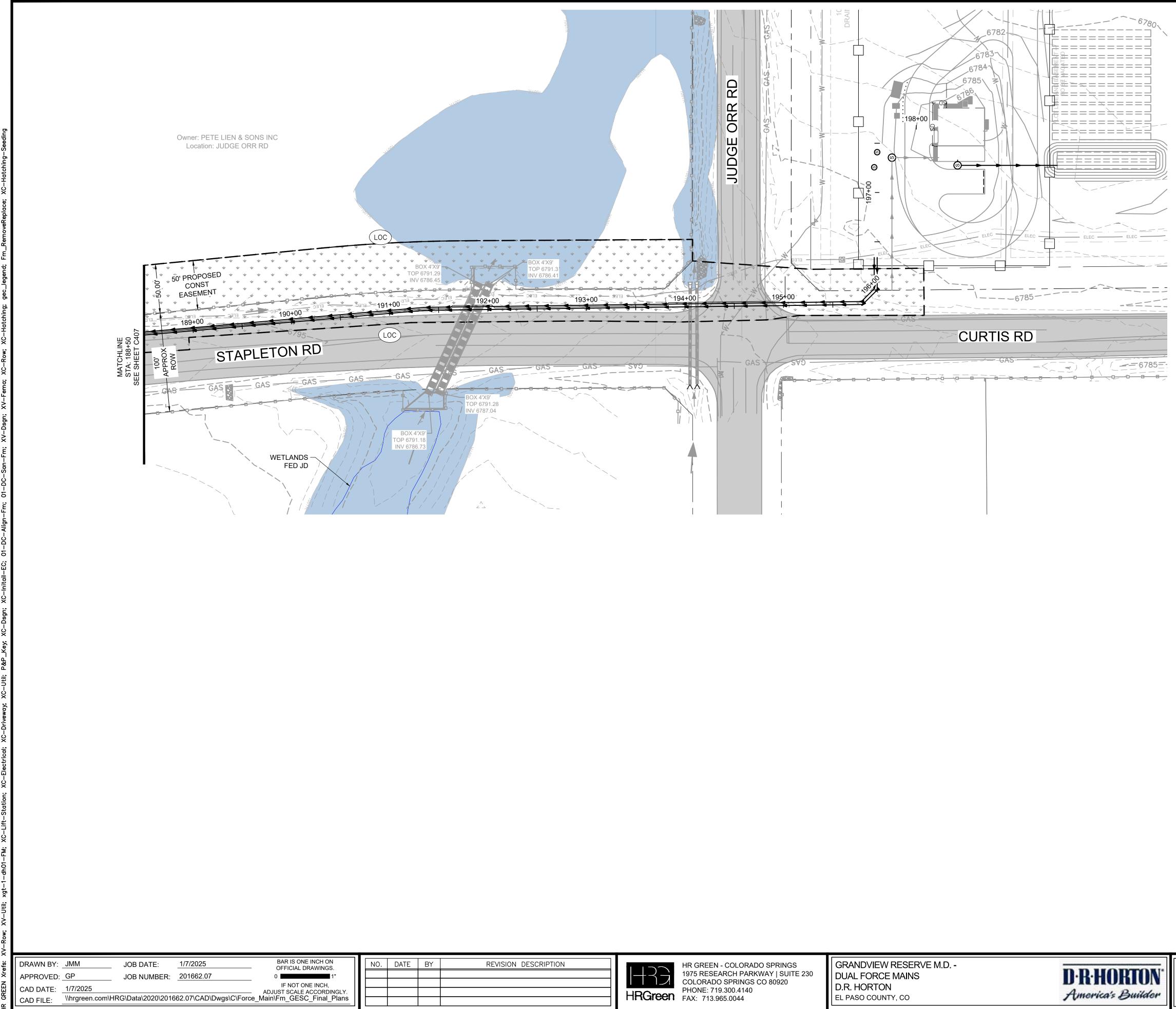


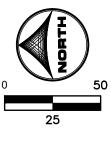


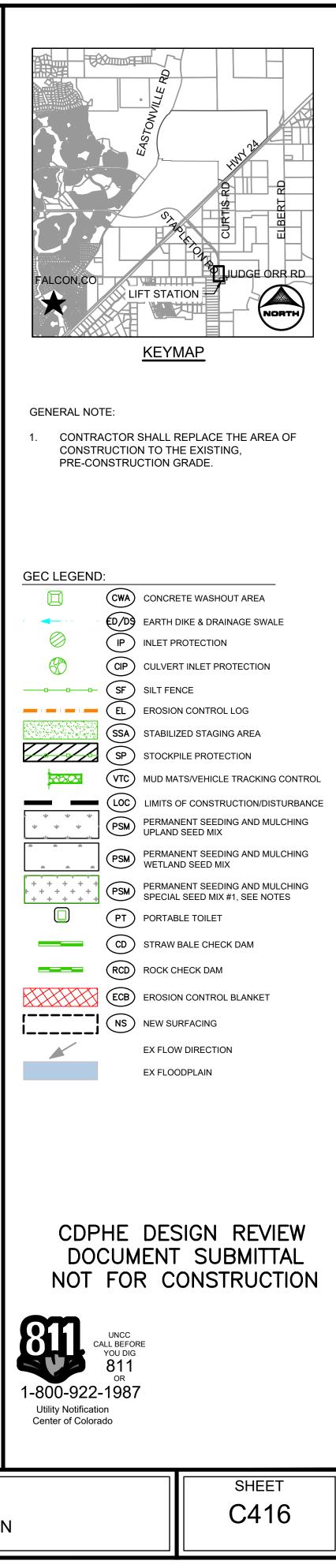




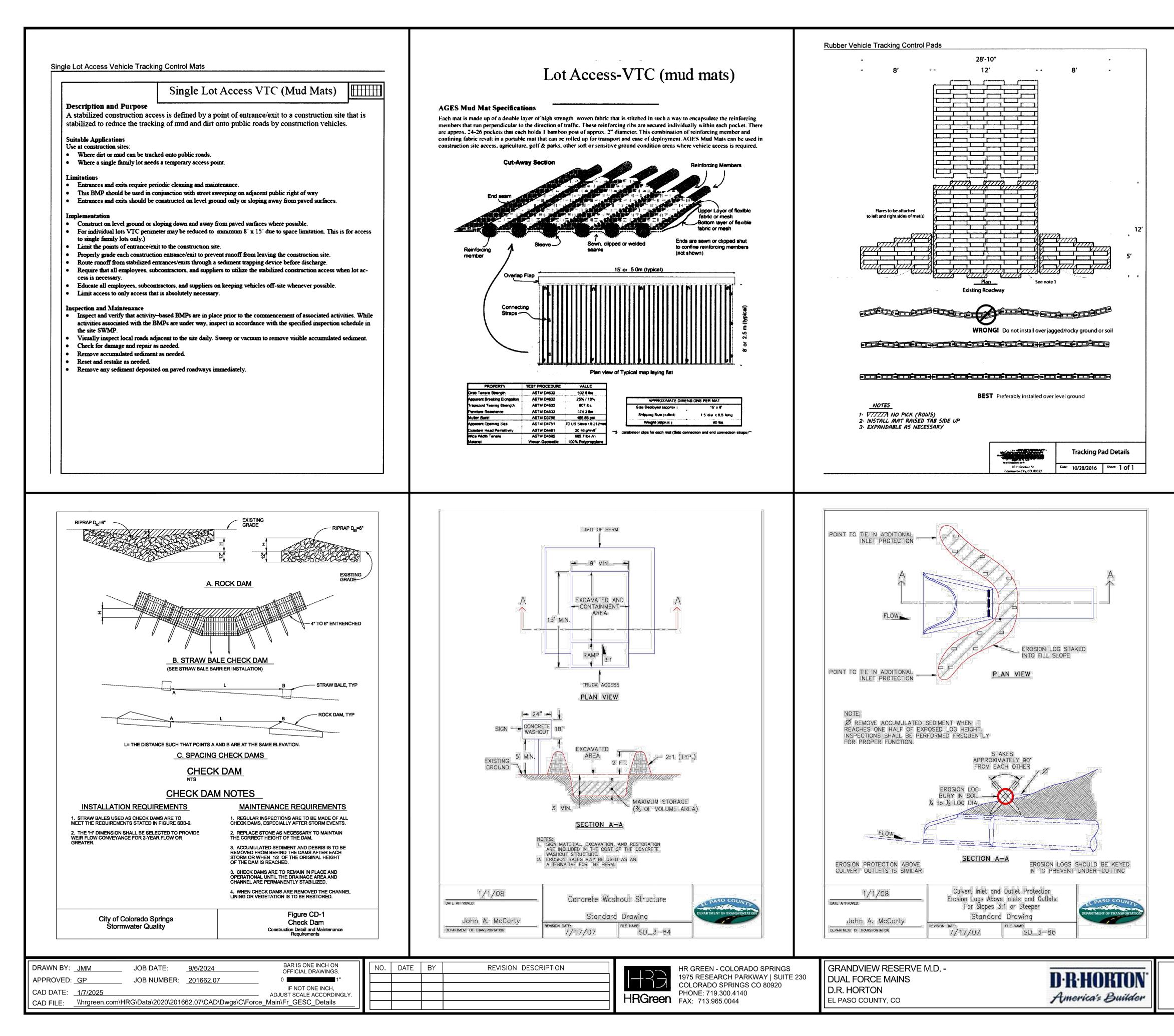
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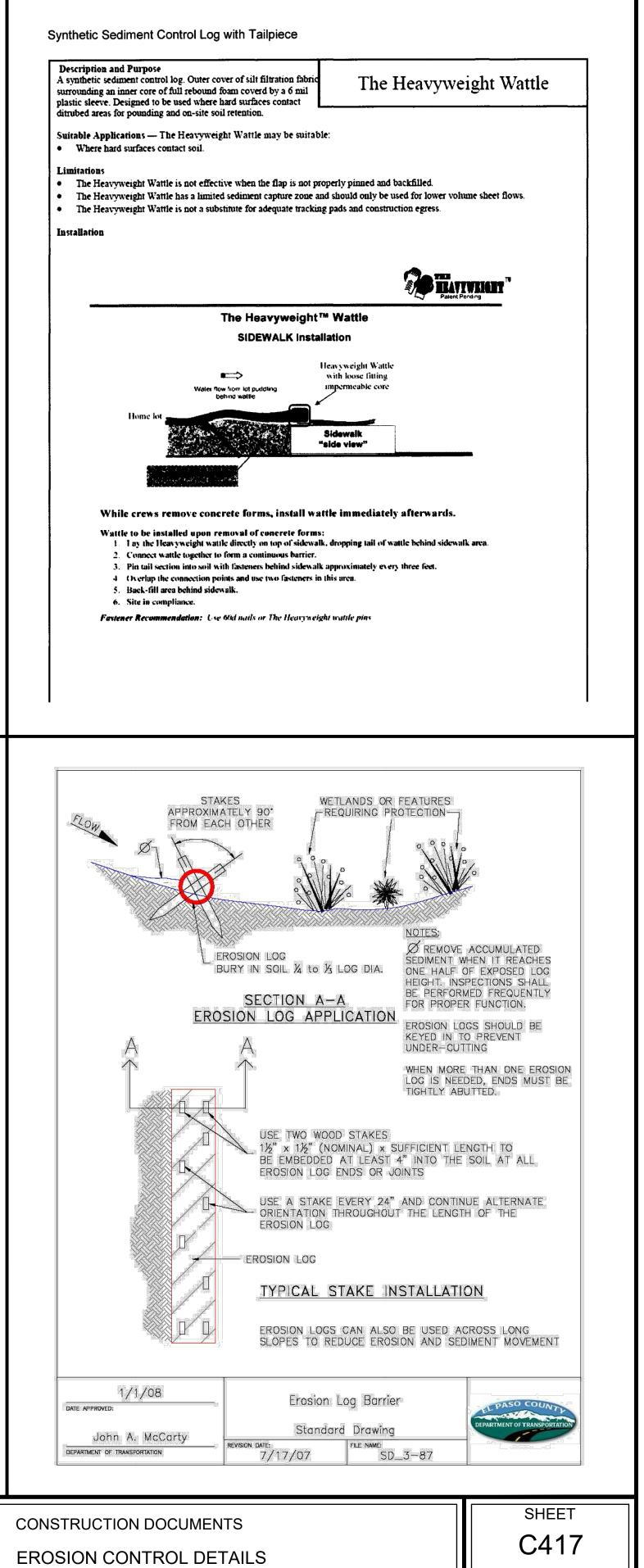


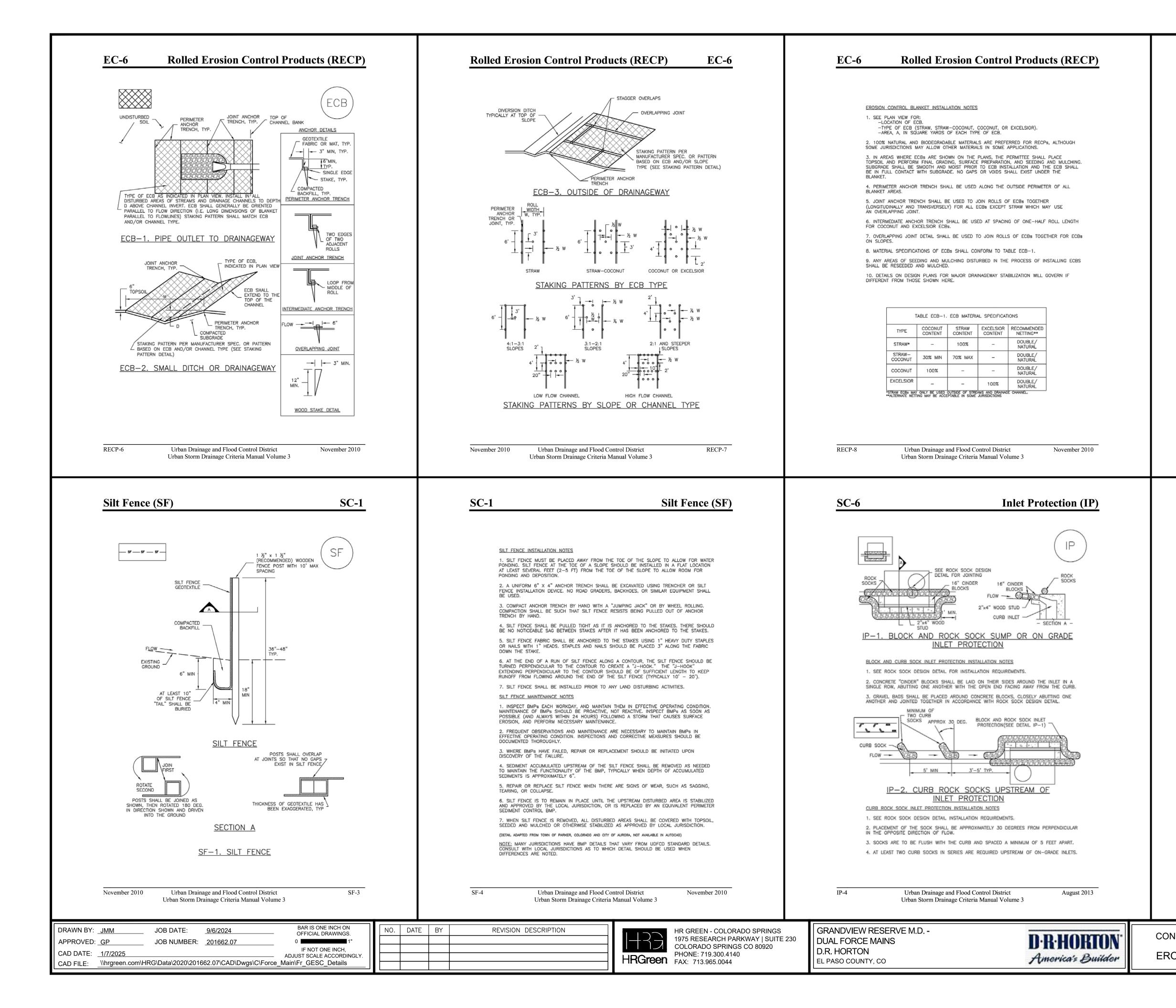




CONSTRUCTION DOCUMENTS EROSION CONTROL FINAL PLAN







Rolled Erosion Control Products (RECP)

EROSION CONTROL BLANKET MAINTENANCE NOTES

EC-6

<u>IP-8</u>	 SENERAL INLET PROTECTION INSTALLATION NOTES 1.9 CEATION OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.5, IP.4, IP.5, IP.5, IP.4, IP.5, IP.5,	FORECAST, DETAILS. (HEN G CONDITION. AS SOON AS SURFACE MPS IN DULD BE UPON ED AS ME REACHES HEIGHT FOR O AREA IS REMOVAL OF A SHALL BE I A MANNER IN AUTOCAD) ARD DETAILS. (HEN CONVENTIONAL RE MANY DORSES NOR IT ACTURER MUST D AS SHOWN LES FOR INLET
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<u>SC-6</u>	Inlet Prot	ection (I
Novembe	r 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3	RECP
	(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER COLORADO, NOT AVAILABLE	in autocad)
	RESEEDED AND MULCHED AND THE ECB REINSTALLED. <u>NOTE:</u> MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDA CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WH DIFFERENCES ARE NOTED.	
	5. ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE RE	D TO CREATED
	 A. ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUER REMOVED BY THE LOCAL JURISDICTION. 	
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EROSION CONTROL DETAILS

C418

SM-3 Construction Fence (CF)	Construction Fence (CF) SM-3	Revegetation Chapter 13
Image: Section of the construction for constructin for construction for construction for const	CONSTRUCTION FERCE MAINTENANCE NOTES 1. INSPECT BUPS EACH INSPECTIVE, NOT EXECTIVE INSPECT BUPS AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CALSES SURFACE ENGODIN, AND PERFORM INCESSAVE MAINTENANCE ARC INSCESSAVE TO MAINTAIN BUPS IN EFFECTIVE OPERATIONS AND MAINTENANCE ARC INSCESSAVE TO MAINTAIN BUPS IN EFFECTIVE OPERATIONS AND MAINTENANCE ARC INSCESSAVE TO MAINTAIN BUPS IN EFFECTIVE OPERATIONS AND MAINTENANCE ARC INSCESSAVE TO MAINTAIN BUPS IN EFFECTIVE OPERATIONS AND MAINTENANCE ARC INSCESSAVE TO MAINTAIN BUPS IN EFFECTIVE OPERATIONS AND MAINTENANCE ARC INSCESSAVE TO MAINTAIN BUPS IN EFFECTIVE OPERATIONS AND MAINTENANCE STORE BURSAVES OF DOCUMENTED INFORMATION FRANCESSAVE DURING THE SOULD BE INTIMIZED UPON DISCOVERTY OF THE FAILURE. 4. CONSTRUCTION FRANCESSAVE BURSAVE DIS REPLACED WHEN THERE ARE SIGNS OF BUAMOE SUCH AS RIPS OF SUGS 305, CONSTRUCTION INFORMED BY THE LOCAL UNRELIDENCE. 5. WHEN CONSTRUCTION FRANCES ARE BELANDED AND APPROXED BY THE LOCAL UNRELIDENCE. 5. WHEN CONSTRUCTION FRANCES ARE BELANDED AND PRYMEDIA BE SABOLARED WITH THE THYDROL, SECODO AND ARRAYS OF SUGS. CONSTRUCTION FRANCES TO RESE AND ARE DESCRIPTION. MURSICION. MURSICION. MURSICION. HENCES AND EREDING THE FRANCE BY THE LOCAL UNRELIDENCE. MURSICION. MURSICION. HENCES AND FORMATION FRANCES TO BE ADDRESS BOOKED BY THE LOCAL UNREL MURSICION. MURSICION. HENCES AND FORME FRANCES FRANCES AND RESOLUTION IN THE MURSICION. MURSICION. HENCES AND FORMER FRANCES FRANCES BOOKED BY DOCAL MURSICION. MURSICION. HENCES AND REPLACE AND APPROVE THE SAMULAE BY AUTOCOMES IN MURSICION. MURSICION. HENCES AND FORMER FRANCES AND REPLACED WHEND DIFFERENCES ARE NOTED. MURSICION.	<section-header><section-header><section-header><section-header><text></text></section-header></section-header></section-header></section-header>
5. CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND BOTTOM OF EACH POST. CF-2 Urban Drainage and Flood Control District November 2010 Urban Storm Drainage Criteria Manual Volume 3 <u>Revegetation</u> Chapter 13 Wetland Native Seed Mixes	November 2010 Urban Drainage and Flood Control District CF-3 Urban Storm Drainage Criteria Manual Volume 3	Tansy aster tanacetifolia Image: Constraint of the state TOTAL PLS POUNDS/ACRE 100 25 PLS = Pure Live Seed – If broadcast seeding, double the rate 13-66 Urban Drainage and Flood Control District January 2016 13-66 Urban Storm Drainage Criteria Manual Volume 2 January 2016
Table A-8. Wetland seed mix – loamy to sandy soils (Recommended for detention ponds and less eroding wetland areas.)Common NameScientific NameGrowth Season% FormWetland MixLb/ac Indicator*Common NameScientific NameGrowth Season% FormWetland Indicator*Lb/ac (PLS')Grasses and Herbaceous Prairie cordgrassBeckmannia syzigachmeCoolSod15OBL0.8Prairie cordgrassSpartina pectinataWarmSod15FACW4.6SwitchgrassPanicum virgatumWarmSod/Bunch15FAC2.3Western wheatgrassPascopyrum smithilCoolSod10FACU5.5Fowl mannagrassGlyceria striataCoolSod10OBL1.6Baltic rushJuncus balticus10OBL1.01.0Creeping spikerushEleocharis palustris10OBL0.1Creeping spikerushVerbena hastata2.5FACW0.1Nuttall's sunflowerHelianthus mutallii2.5FAC0.5TOTAL PLS POUNDS/ACRE10019.819.8Table A-9. Wetland seed mix – clay and alkali soils (Recommended for detention ponds and wetland areas.)		
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13-70Urban Drainage and Flood Control DistrictJanuary 2016Urban Storm Drainage Criteria Manual Volume 2		
DRAWN BY: JMM JOB DATE: 9/6/2024 BAR IS ONE INCH ON OFFICIAL DRAWINGS. APPROVED: GP JOB NUMBER: 201662.07 0 1" CAD DATE: 1/7/2025 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY. ADJUST SCALE ACCORDINGLY. CAD FILE: \\hrgreen.com\HRG\Data\2020\201662.07\CAD\Dwgs\C\Force_Main\Fr_GESC_Details	NO. DATE BY REVISION DESCRIPTION	GRANDVIEW RESERVE M.D DUAL FORCE MAINS D.R. HORTON EL PASO COUNTY, CO

Chapter 13

Revegetation

Table A-3. Upland/transitional area seed mix – alkali soil

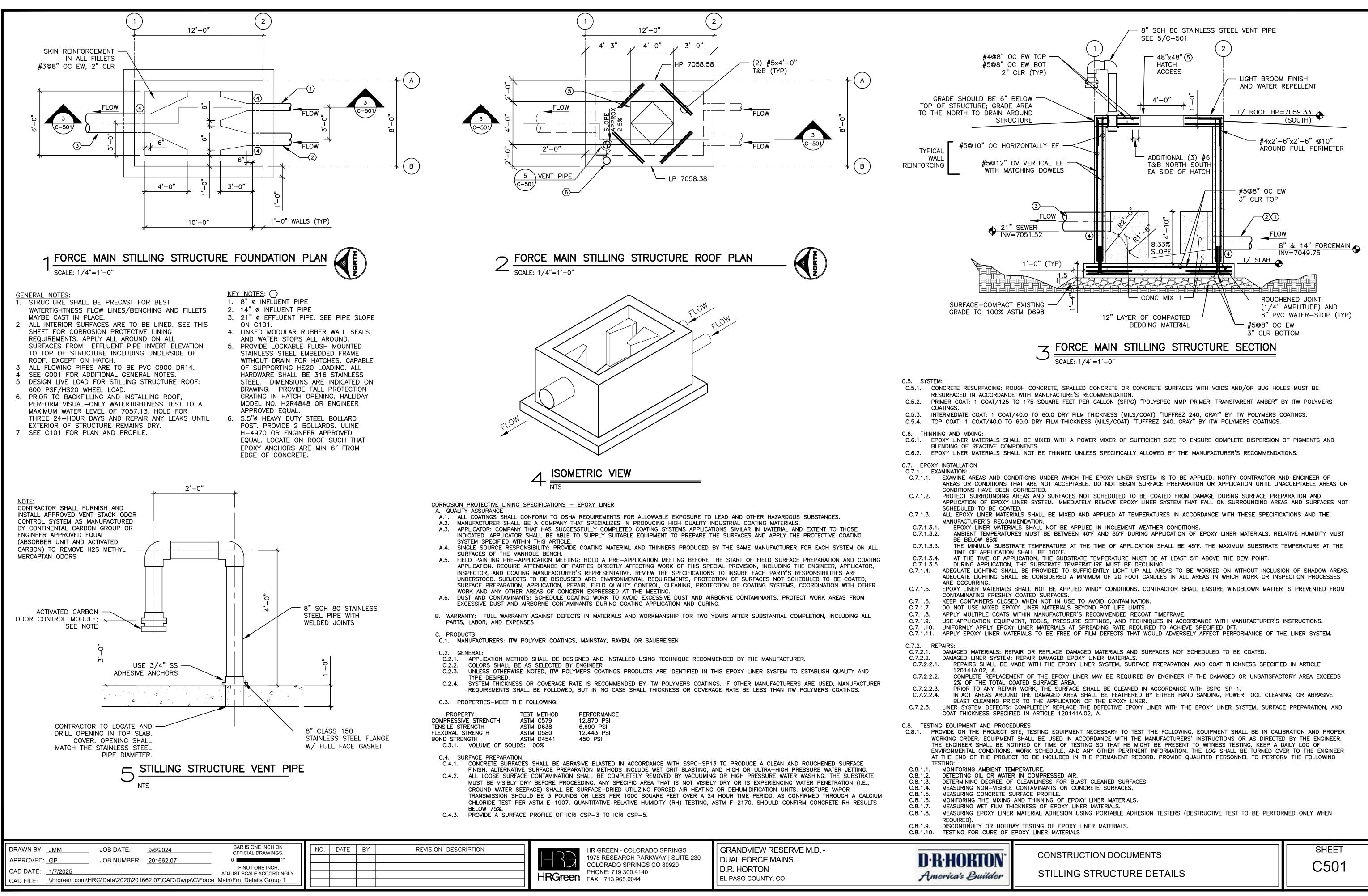
Common Name	Scientific Name	Growth Season	Growth Form	% Mix	Lb/ac (PLS ¹)
Blue grama	Bouteloua gracilis	Warm	Sod	20	1.5
Sideoats grama	Bouteloua curtipendula	Warm	Sod	15	4.7
Slender wheatgrass	Elymus trachycaulus	Cool	Bunch	15	5.7
Alkali sacaton	Sporobolus airoides	Warm	Sod/Bunch	15	0.5
Inland saltgrass	Distichlis spicata	Warm	Sod	15	1.7
Western wheatgrass	Pascopyrum smithii	Cool	Sod	10	5.5
Sand dropseed	Sporobolus cryptandrus	Warm	Bunch	10	0.1
TOTAL PLS POUN	DS/ACRE			100	19.7

January 2016

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 2

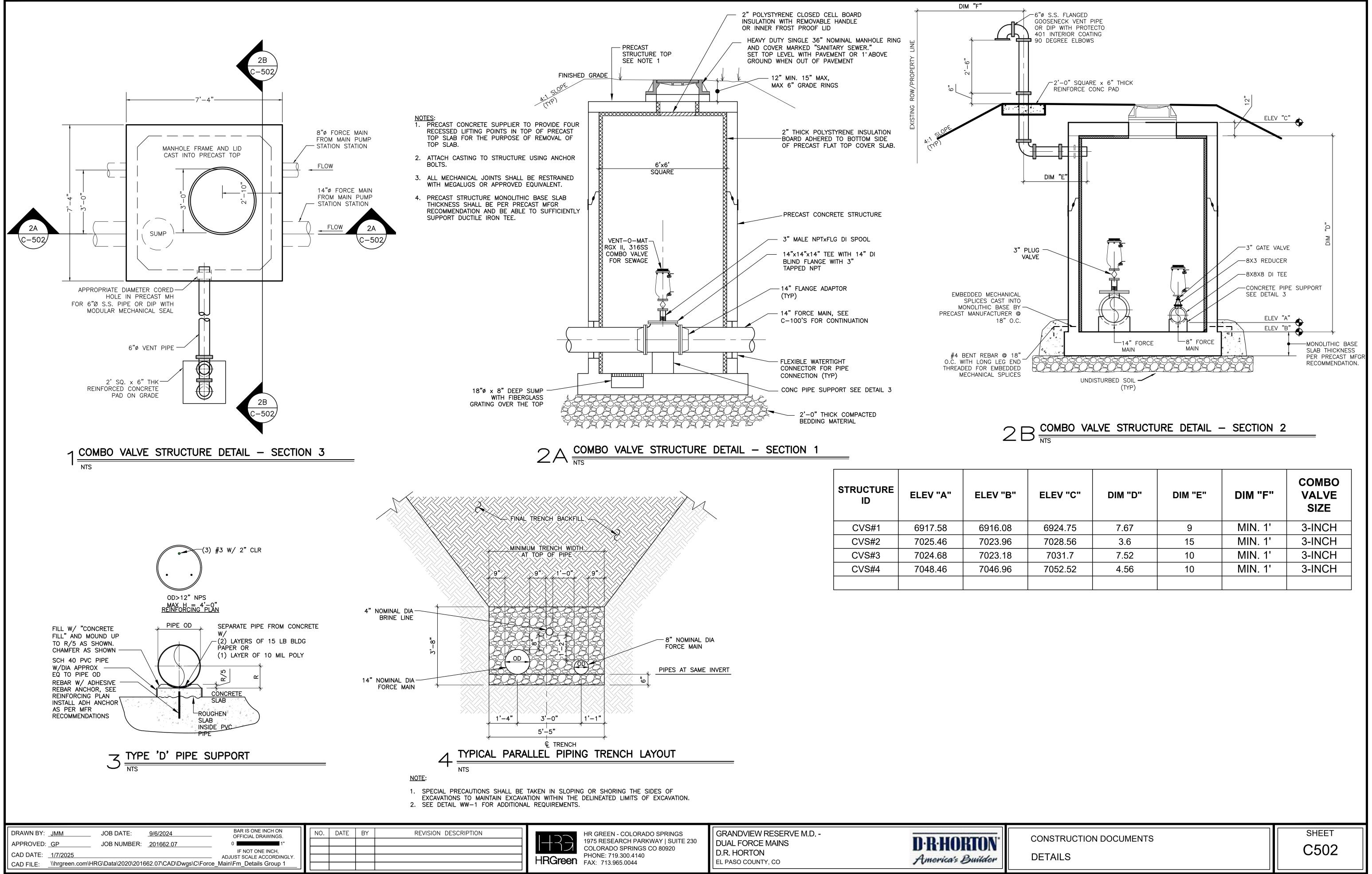
13-67

CONSTRUCTION DOCUMENTS
EROSION CONTROL DETAILS



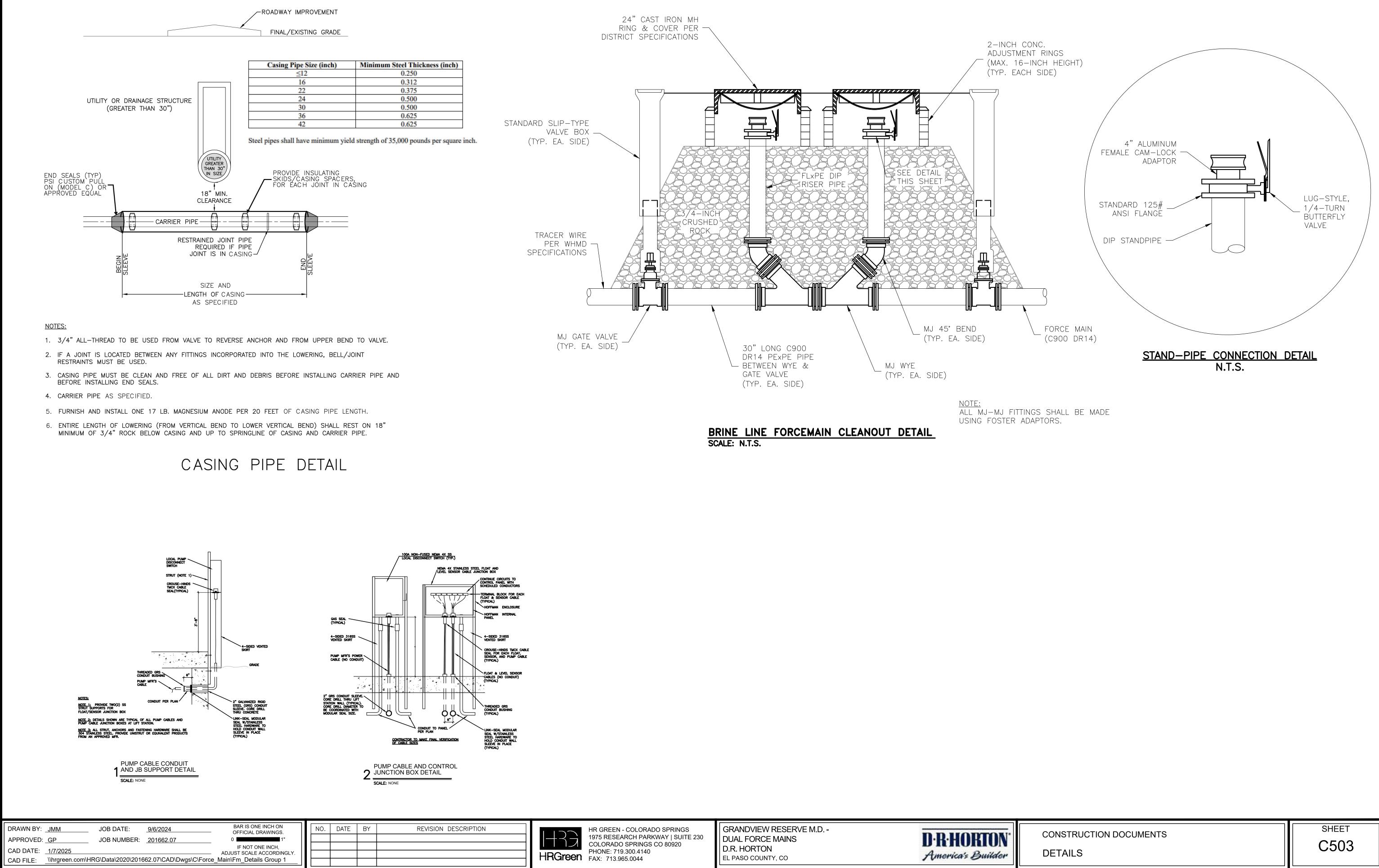
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HRGreen	PHONE: 719.300.4

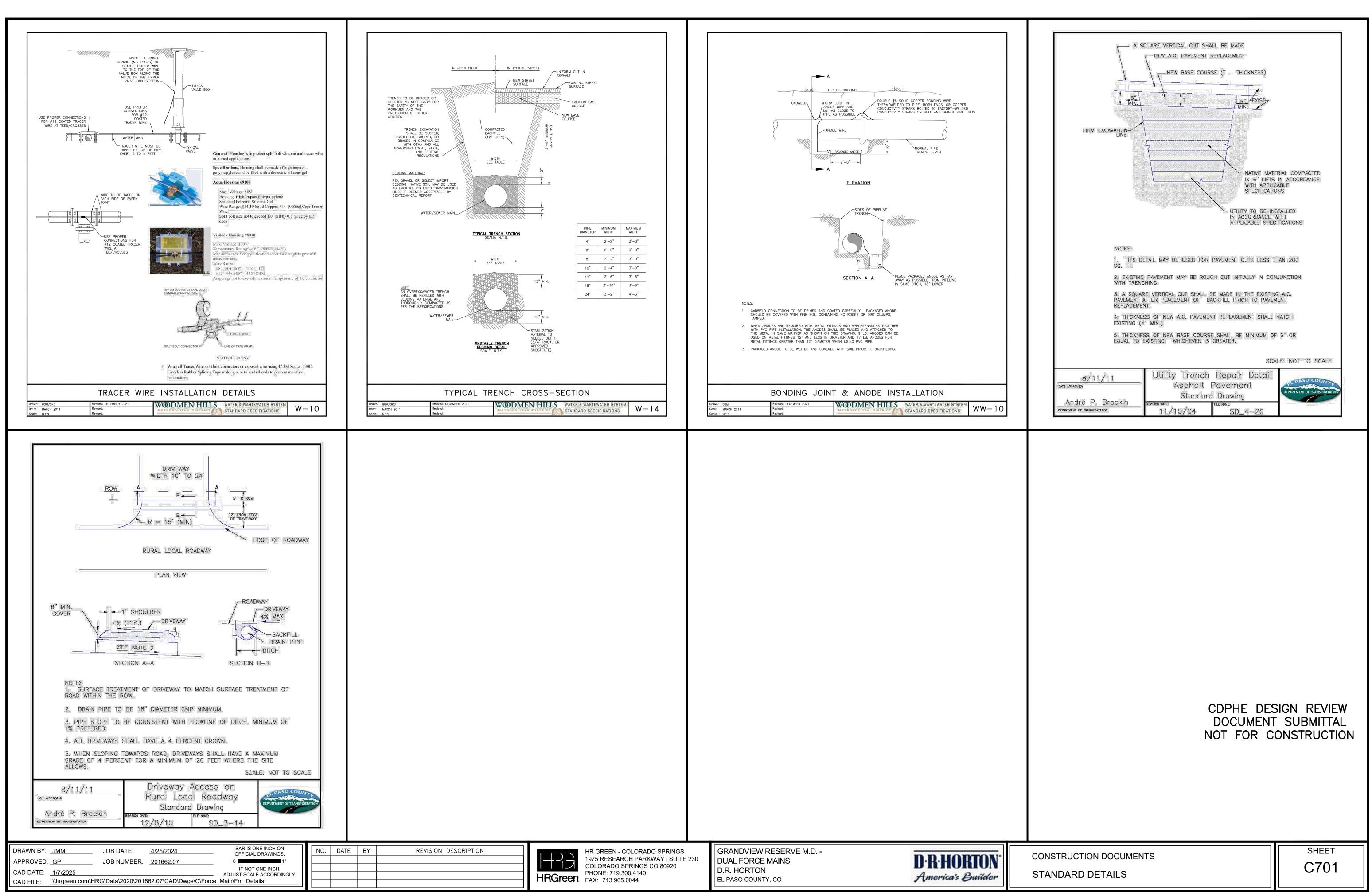
GRANDVIEW RESERVE M.D
DUAL FORCE MAINS
D.R. HORTON
EL PASO COUNTY, CO



PTION	HR GREEN - COLORADO SPRINGS 1975 RESEARCH PARKWAY SUITE 230 COLORADO SPRINGS CO 80920 PHONE: 719.300.4140 FAX: 713.965.0044	GRANDVIEW RESERVE M.D DUAL FORCE MAINS D.R. HORTON EL PASO COUNTY, CO	D·R·HORT America's Build

'B''	ELEV "C"	DIM "D"	DIM "E"	DIM "F"	COMBO VALVE SIZE
08	6924.75	7.67	9	MIN. 1'	3-INCH
96	7028.56	3.6	15	MIN. 1'	3-INCH
18	7031.7	7.52	10	MIN. 1'	3-INCH
96	7052.52	4.56	10	MIN. 1'	3-INCH





HRGree

Comment response for FORCE MAIN

Page No	Comments	Response
7	Include road classification, row width & public/private (for all roads)	Added
8	Easements? Please label	Labeled as property line
8	Per note in plan view, box is 10' high. Profile does not appear to be showing correct height. Please verify	height adjusted to scale
9	Provide property owner info on this side of the road	Added
9	Easement? Please label	Labeled as property line
10	Provide property owner info on this side of the road	added
10	Tract or easement? Please label	labeled
11	Provide property owner info on this side of the road	added
12	Provide property owner info on this side of the road	added
13	Provide property owner info on this side of the road	added
14	Provide property owner info on this side of the road	added
14	Unresolved: Appears to be new fence. Please label	Resolved: REMOVE AND REPLACE BARBED WIRE FENCING AND STEEL POSTS
16	Unresolved: Appears to be new fence. Please label	Resolved: REMOVE AND REPLACE BARBED WIRE FENCING AND STEEL POSTS
16	Provide property owner info on this side of the road	added
17	Provide property owner info on this side of the road	added
18	Provide property owner info on this side of the road	added
19	Provide property owner info on this side of the road	added
20	Provide property owner info on this side of the road	added
21	Does easement extend to Judge Orr ROW?	ROW, Label removed replaced from the easement line for clear view
21	Provide property owner info on this side of the road	added
26	Property Lines	added property lines and property owners