

EASTONVILLE ROAD FROM LONDONDERRY DRIVE TO REX ROAD SEGMENT 1 IMPROVEMENTS STATIONING 14+55.00 - 47+00.00

LOCATED IN A PORTION OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN

COUNTY OF EL PASO, STATE OF COLORADO

MARCH 2024

OWNER/DEVELOPER

MELODY HOMES INC. (D.R. HORTON)
9555 S. KINGSTON CT.
SUITE 200
CONTACT: RILEY HILLEN
EMAIL: RHILLEN@DRHORTON.COM

CIVIL ENGINEER

HR GREEN DEVELOPMENT, LLC
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
TELE: (719) 394-2433
CONTACT: COLLEEN MONAHAN
EMAIL: CMONAHAN@HRGREEN.COM

EL PASO COUNTY - ENGINEERING REVIEW

PLANNING AND DEVELOPMENT
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COLORADO SPRINGS, CO 80910
TELE: (719) 520-6300
CONTACT: JEFF RICE, P.E. (719) 520-6300
EMAIL: JEFFRICE@ELPASOCO.COM

TRAFFIC ENGINEERING

EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS
3275 AKERS DRIVE
COLORADO SPRINGS, CO 80922
TELE:
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EMAIL: JOSHUPALMER@ELPASOCO.COM

APPLICANT

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LANDSCAPE ARCHITECT

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1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
TELE: (720) 602-4941
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EMAIL: PSTUEPFERT@HRGREEN.COM

SURVEYOR

EDWARD JAMES SURVEYING, INC.
1005 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
TELE: 719-576-1216

TRAFFIC ENGINEER

LSC TRANSPORTATION CONSULTANTS, INC.
545 EAST PIKES PEAK AVENUE, SUITE 210
COLORADO SPRINGS, CO 80903
TELE: (719) 633-2669
CONTACT: JEFF HODSDON
EMAIL: JEFF@LSCTRANS.COM

GEOTECHNICAL ENGINEER

CTL THOMPSON INC.
5170 MARK DABLING BLVD
COLORADO SPRINGS, CO 80918
TELE: (719) 528-8300
CONTACT: JEFFREY M. JONES P.E.

WATER & WASTE WATER

GRANDVIEW RESERVE METROPOLITAN DISTRICT
1272 KELLY JOHNSON BLVD SUITE 100
TELE: (719) 499-8416
CONTACT: PAUL HOWARD
EMAIL: PAULINFINTY1@MSN.COM

ELECTRIC

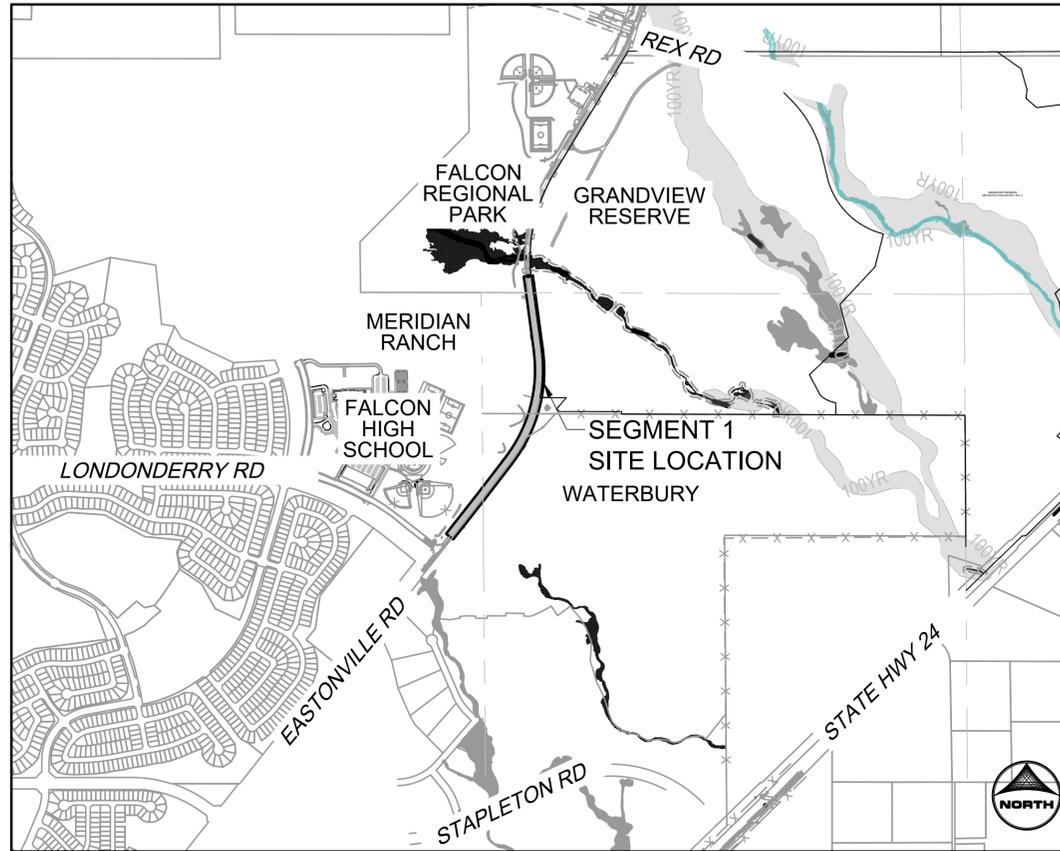
MOUNTAIN VIEW ELECTRIC ASSOCIATION, INC.
11140 E. WOODMEN RD
FALCON, CO 80831-8127
TELE: (719) 495-2283

NATURAL GAS

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

FIRE DEPARTMENT

FALCON FIRE PROTECTION DISTRICT ADMINISTRATION
7030 OLD MERIDIAN RD
PEYTON, CO 80831
TELE: (719) 495-4050
EMAIL: FALCONFIRE@FALCONFIREPD.ORG



VICINITY MAP
SCALE 1" = 1000'

OVERALL INDEX	
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SEGMENT 2	SHEETS 33-61

SHEET INDEX		
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BENCHMARK

THE BENCHMARK FOR THIS TOPOGRAPHICAL MAP IS NGS MONUMENT F24, WITH A PUBLISHED ELEVATION OF 6866.33 FEET. NAV88.

BASIS OF BEARING

THE BASIS OF BEARING IS THE NORTH LINE OF SECTION 28 TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH P.M. BEING MONUMENTED AT EACH END BY A 3-1/4" ALUMINUM CAP STAMPED "PS INC LS 30087, ASSUMED TO BEAR S89°47'04", A DISTANCE OF 5,285.07 FEET.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

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.

EL PASO COUNTY

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

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

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JOSHUA PALMER P.E. _____ DATE _____
COUNTY ENGINEER

OWNER'S STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED ON THESE DETAILED PLANS AND SPECIFICATIONS

DATE

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENCE, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

Colleen Monahan _____ 3/22/2024
COLLEEN P. MONAHAN, COLORADO P.E. NO. 0056067 DATE



DISTRICT APPROVALS

THESE DOCUMENTS HAVE BEEN REVIEWED AND APPROVED FOR STORM DRAIN AND ASSOCIATED UTILITY SERVICE CONSTRUCTION.

FOR AND ON BEHALF OF THE GRANDVIEW RESERVE METROPOLITAN DISTRICT DATE _____



EDARP FILING NO. 2321

DRAWN BY: ACH	JOB DATE: 3/6/2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS: 0	
APPROVED: CMM	JOB NUMBER: 201662.08	IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.	
CAD DATE: 3/22/2024			
CAD FILE: J:\2020\201662\CAD\DWG\CI\Eastonville_Road_662.08\Segment_1\CDI\Road_CDs\Cover_N			

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

EASTONVILLE ROAD IMPROVEMENTS
DR. HORTON
EL PASO COUNTY, COLORADO

EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
COVER

SHEET
CS.1
1

GRADING AND EROSION CONTROL NOTES:

- 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 CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) 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 OF 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.
- 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 PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND THE 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 OPERATION 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.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING 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.
- ALL PERMANENT STORMWATER FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OF FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER 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.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OF 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 LOOSEEN PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- 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.
- 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.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION BLANKET 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 DISCHARGED AT THIS SITE. 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.

- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP PROPERLY 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 APPURTENANCES AS A RESULT OF THE SITE DEVELOPMENT.
- 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 AN EAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABEL.
- 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. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY PROTECTION TO CONTAIN AL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND 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 ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.) IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THE SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS. AT LEAST (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 CHERR CREEK DRIVE SOUTH
- DENVER, CO 80246-1530
- ATTN: PERMITS UNIT

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.

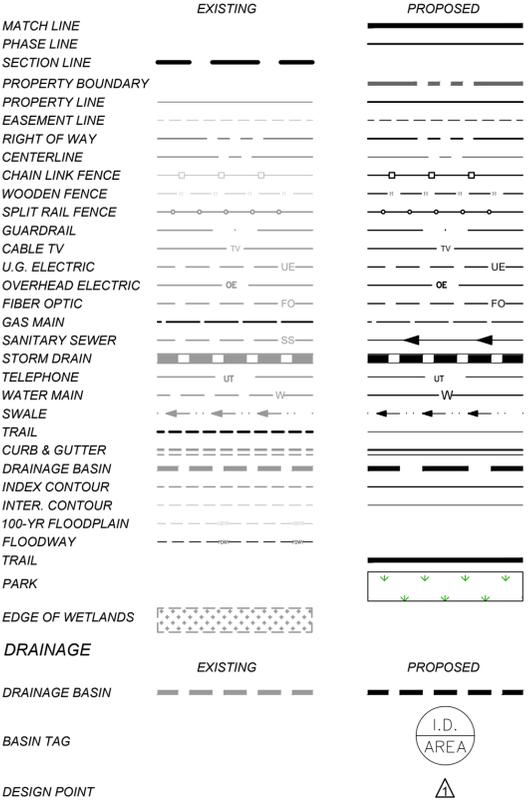
GENERAL NOTES:

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
- ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION
- ALL BACKFILL, SUB-BASE, AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED PER THE SOILS ENGINEER'S RECOMMENDATIONS AND APPROVED BY EL PASO COUNTY PCD.
- ALL STATIONING IS CENTERLINE OF IMPROVEMENTS UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE INDICATED AS TOP BACK OF CURB (TBC), ASPHALT (ASP), OR TOP OF INLET OR BOX (TOB).
- ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO EPC ECM APPENDIX K - 1.2C
- ALL INTERSECTION ACCESSES TO BE CONSTRUCTED WITH A 25 FOOT SIGHT VISIBILITY TRIANGLES EXCEPT [VOLLMER ROAD, MARKSHEFFEL ROAD, BRAIRGATE PARKWAY] WHICH IS AN ARTERIAL AND A 50 FOOT SIGHT VISIBILITY TRIANGLE IS REQUIRED AND THERE SHALL BE NO OBSTRUCTIONS GREATER THAN 18" IN THIS AREA.
- ALL CULVERTS AND STORM DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE (HDPE), REINFORCED CONCRETE PIPE (RCP). ALL CULVERTS SHALL BE PLACED COMPLETE WITH FLARED END SECTIONS. ADEQUACY OF MATERIAL THICKNESS FOR ANY CSP INSTALLED SHALL BE VERIFIED BY OWNER'S GEOTECHNICAL ENGINEER TO SUPPORT MINIMUM 50 YEAR DESIGN LIFE. CULVERTS MUST CONFORM TO EPC ECM SECTION 3.32 - CULVERTS.
- ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT THE TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY ENGINEERING DIVISION PRIOR TO CONSTRUCTION.

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - 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 PASO COUNTY INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND EPC 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 CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 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.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY AND MUTCD CRITERIA.
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 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.

LEGEND



STORM SEWER

- MANHOLE
- STORM INLET
- FLARED END SECTION
- RIPRAP

SANITARY SEWER

- CLEAN OUT
- MANHOLE
- PLUG

WATER

- 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

MISCELLANEOUS

- SIGN
- BOLLARD
- ACCESSIBLE PARKING

LIST OF ABBREVIATIONS

- SHT - SHEET
- Δ - DEFLECTION ANGLE
- L - LENGTH
- R - RADIUS
- CB - CHORD BEARING
- C - CHORD LENGTH
- N - NORTH/NORTHING
- W - WEST
- E - EAST/EASTING
- S - SOUTH
- DET - DETAIL
- EX - EXISTING
- W/ - WITH
- PC - POINT OF CURVATURE/PORTLAND CEMENT
- WWF - WELDED WIRE FABRIC
- VERT - VERTICAL
- OC - ON CENTER
- FDC - FIRE DEPARTMENT CONNECTION
- CT - COURT
- DR - DRIVE
- REC - RECEPTION NUMBER
- Ø DIA - DIAMETER
- PT - POINT OF TANGENCY
- MIN - MINIMUM
- MAX - MAXIMUM
- HDPE - HIGH DENSITY POLYETHYLENE

SIGNING AND STRIPING NOTES:

- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
- ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
- ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
- STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
- ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 35 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 12" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS". SIGNAL POLE MOUNTED AND OVERHEAD STREET NAME SIGNS SHALL BE PER MUTCD SIZE STANDARDS.
- ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
- ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
- ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 24" WIDE AND A MINIMUM OF 9' LONG.
- WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE.
- ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15ML THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
- THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.



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HRGreen
 HR GREEN - COLORADO SPRINGS
 1975 RESEARCH PARKWAY SUITE 230
 COLORADO SPRINGS CO 80920
 PHONE: 719.300.4140
 FAX: 713.965.0044

EASTONVILLE ROAD IMPROVEMENTS
DR. HORTON
 EL PASO COUNTY, COLORADO

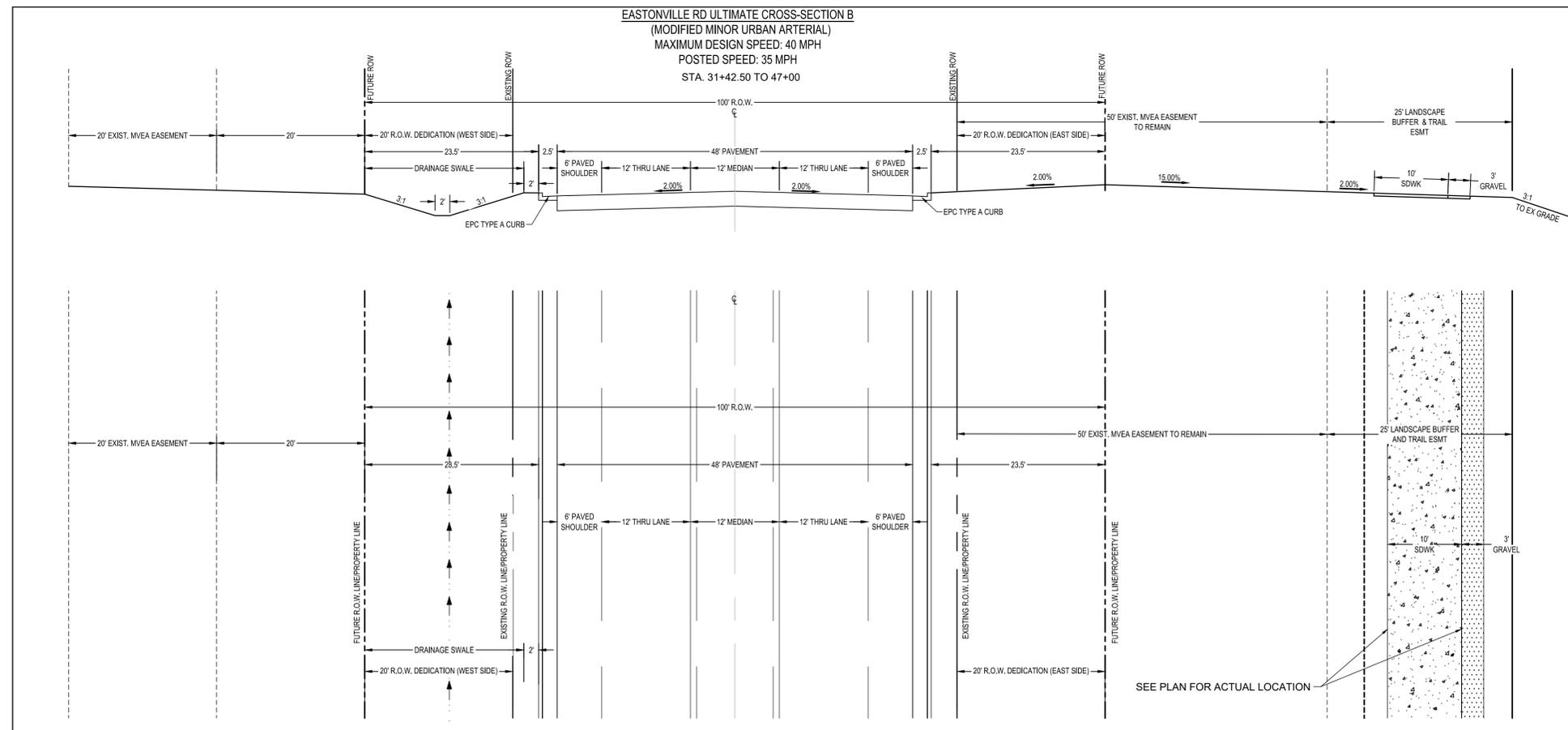
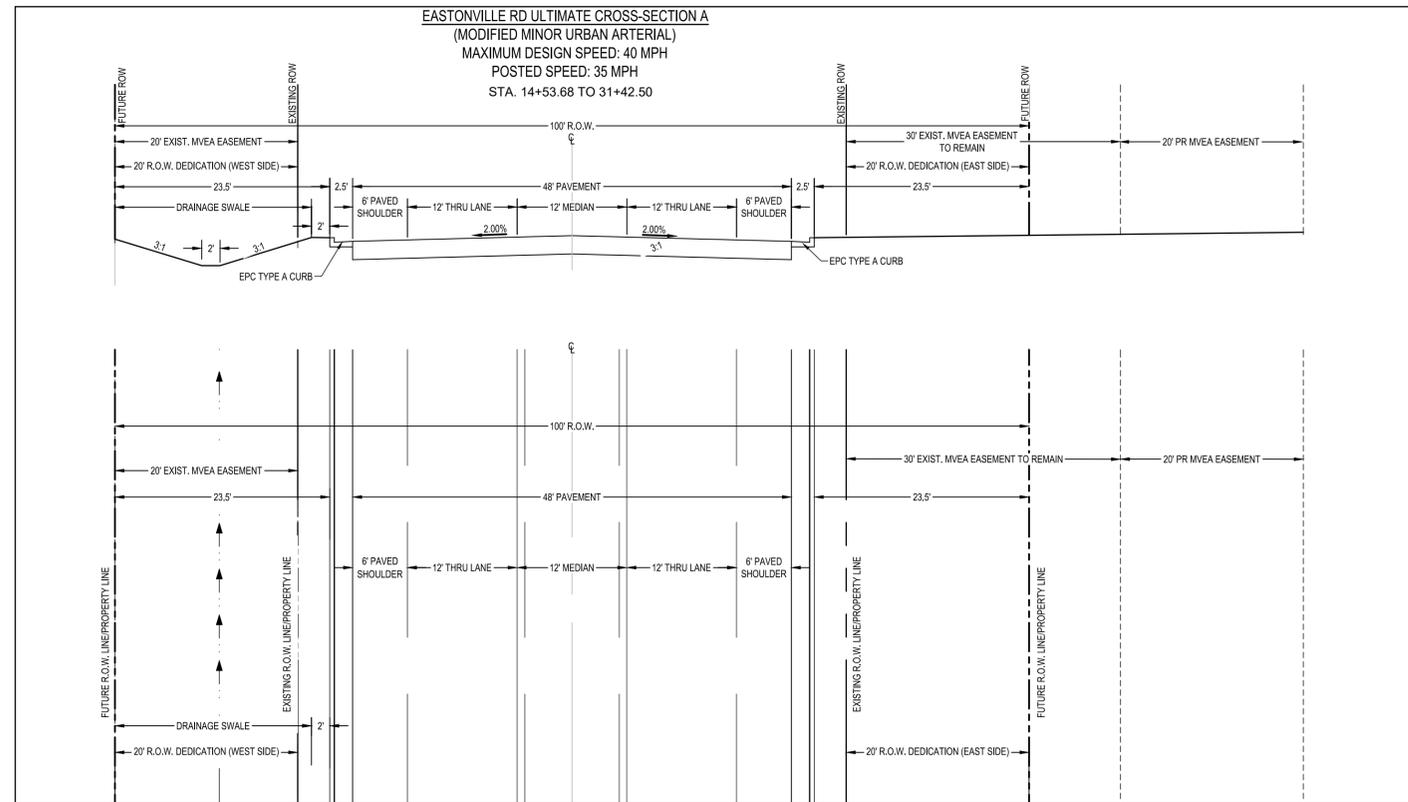
D-R HORTON
America's Builder

EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS

NOTES & LEGEND

SHEET
GN.1
 2

HR GREEN Xref: xpl-rd01; general_construction_notes; Signing_n_Striping_Notes; Standard_Elpasso_Blocks; Agency List; Grading_Plan_Legend_2; List_of_Abbreviations; EPC Permits; x-row662; v-dsign; 662; Roundabout_Curb_Detail; Bldg; Ramp_Detail; Roadside_Swale; EPC_GEC_Notes



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BAR IS ONE INCH ON
 OFFICIAL DRAWINGS:
 0" = 1"
 IF NOT ONE INCH,
 ADJUST SCALE ACCORDINGLY.

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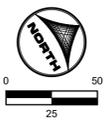
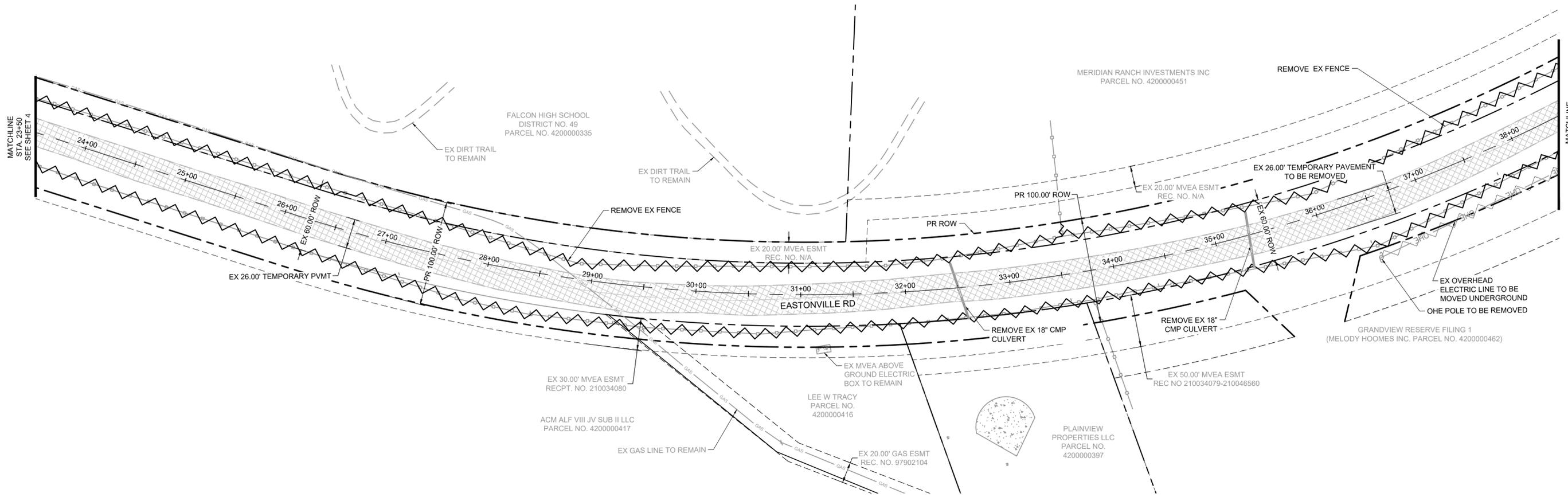


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 EL PASO COUNTY, COLORADO

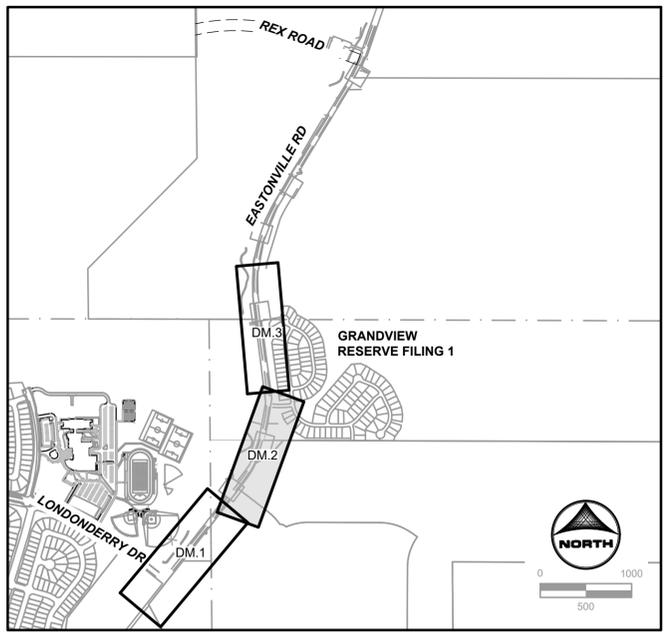
EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 TYPICAL ROAD SECTIONS

SHEET
GN.2
3



LEGEND:

	TEMPORARY PAVEMENT TO BE REMOVED
	FENCE LINE TO BE REMOVED
	ELECTRIC LINE TO BE UNDERGROUNDED
	PROPOSED ROW



KEYMAP



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APPROVED: CPM	JOB NUMBER: 201662.08	0 1"
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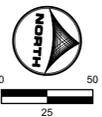
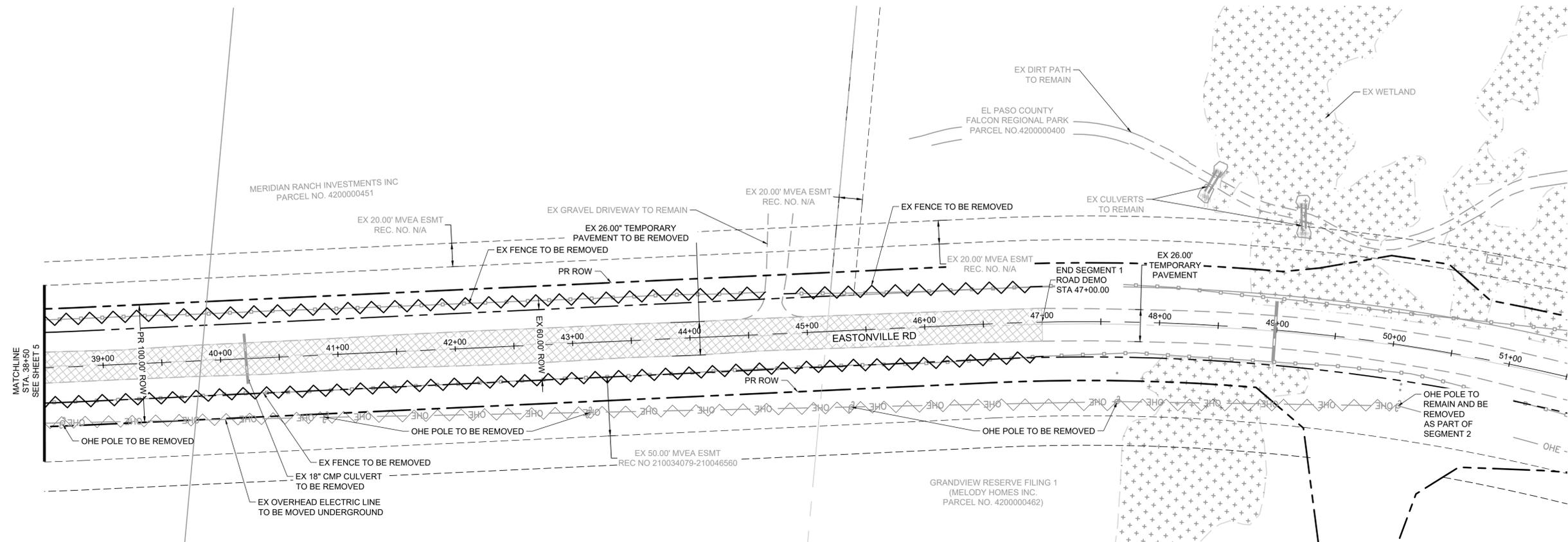
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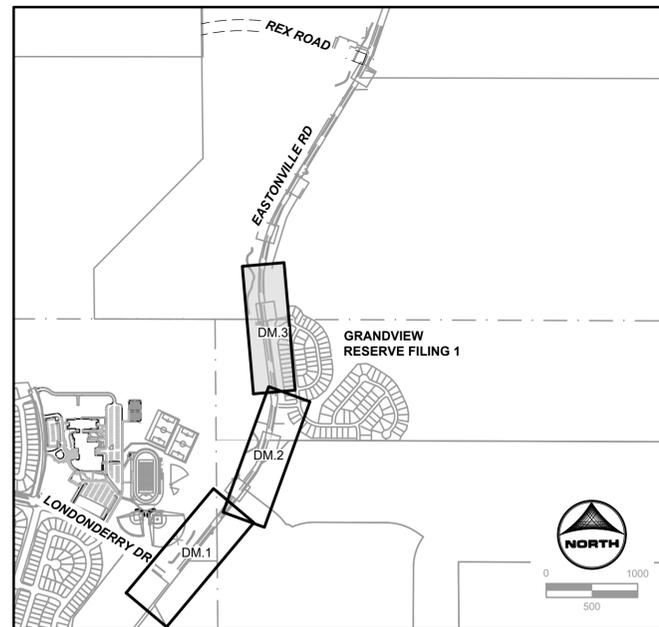
EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 DEMOLITION PLAN

SHEET
DM.2
5



LEGEND:

	TEMPORARY PAVEMENT TO BE REMOVED
	FENCE LINE TO BE REMOVED
	ELECTRIC LINE TO BE UNDERGROUNDED
	PROPOSED ROW



KEYMAP



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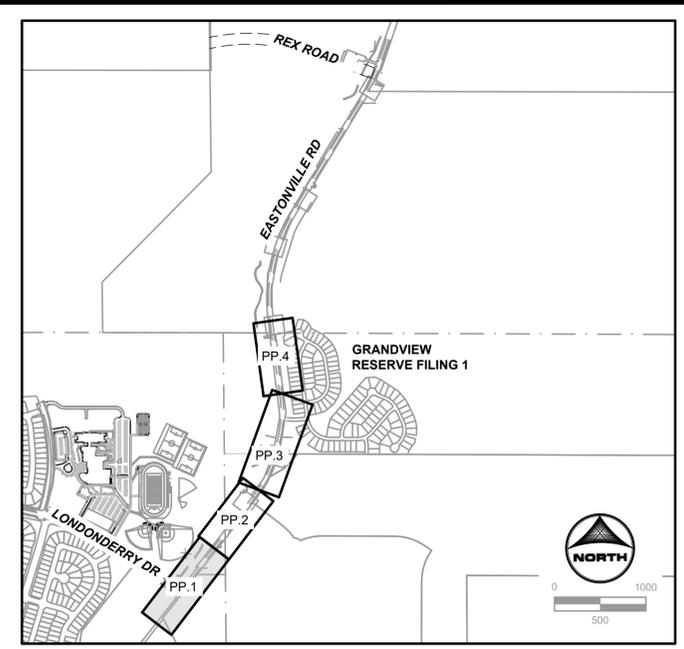
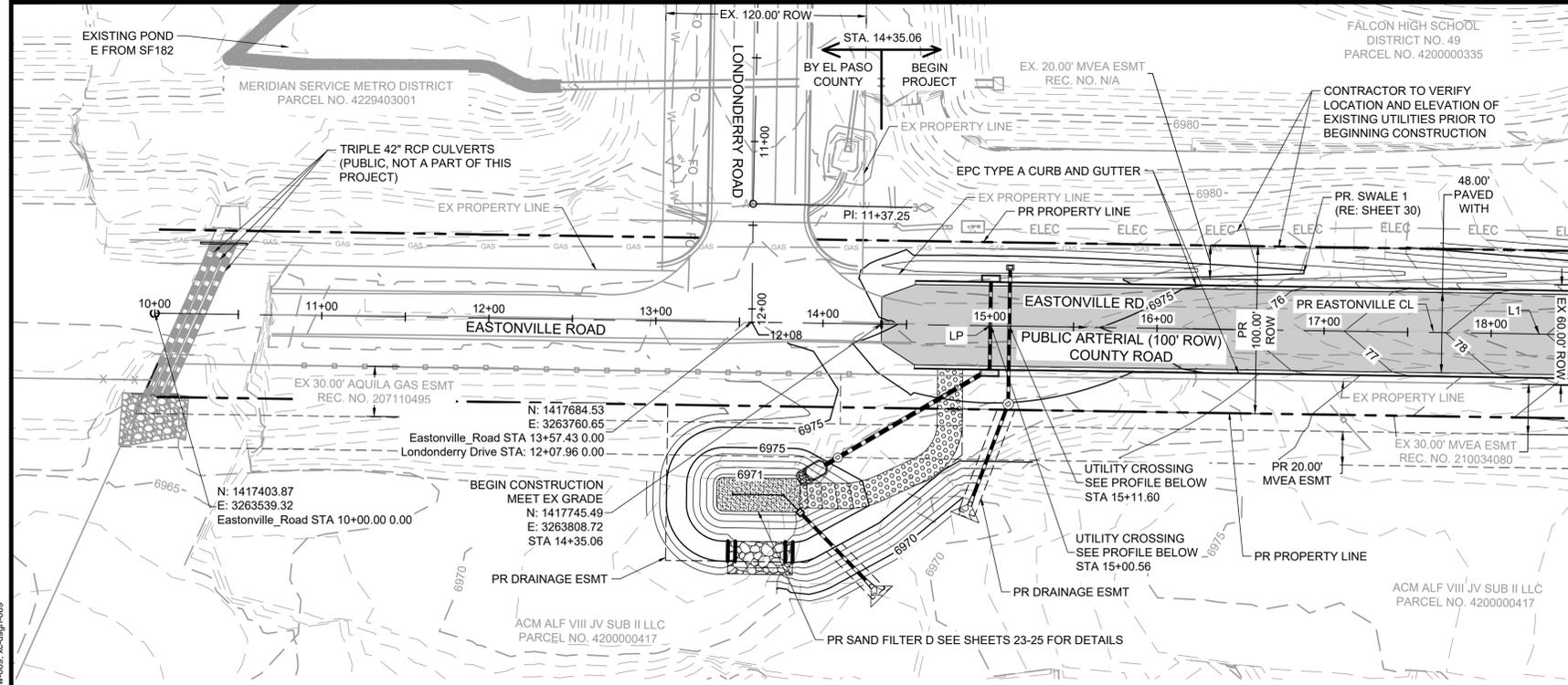
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 EL PASO COUNTY, COLORADO



EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 DEMOLITION PLAN

SHEET
DM.3 **6**

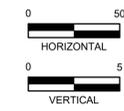
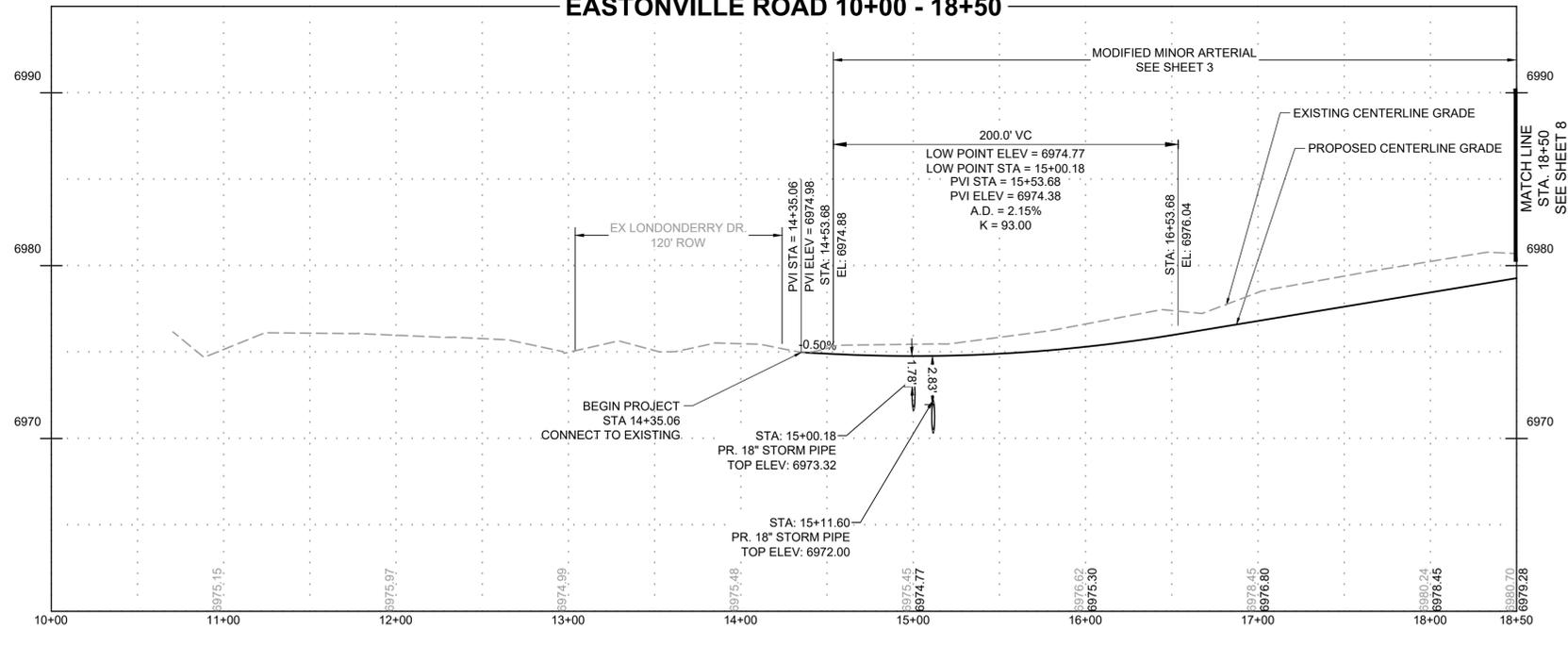
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KEYMAP

Line Table		
Line #	Length	Direction
L1	460.78	N 38°15'31" E

EASTONVILLE ROAD 10+00 - 18+50



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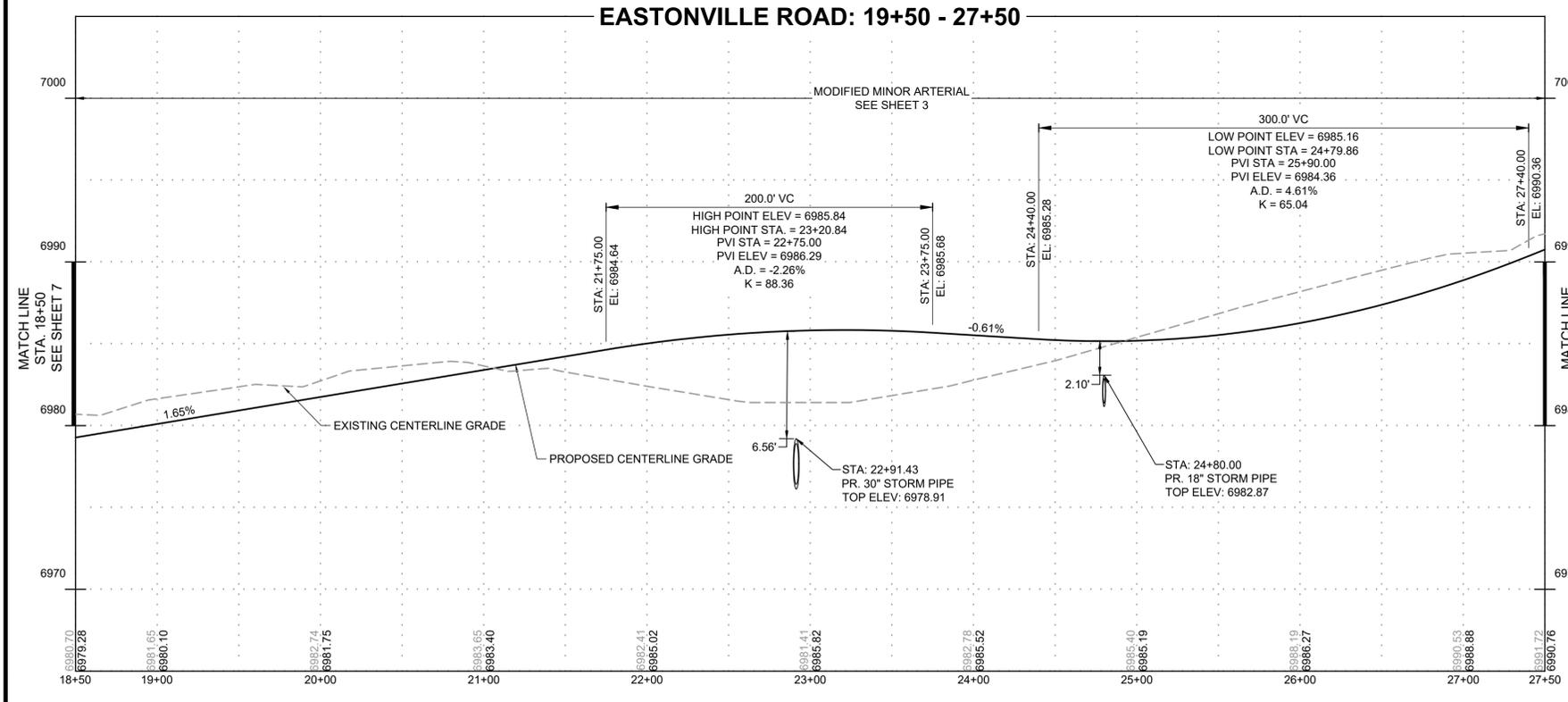
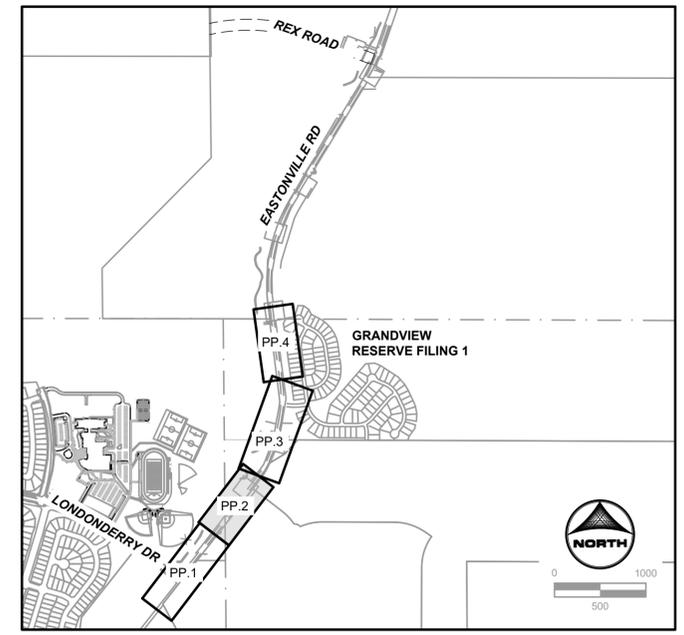
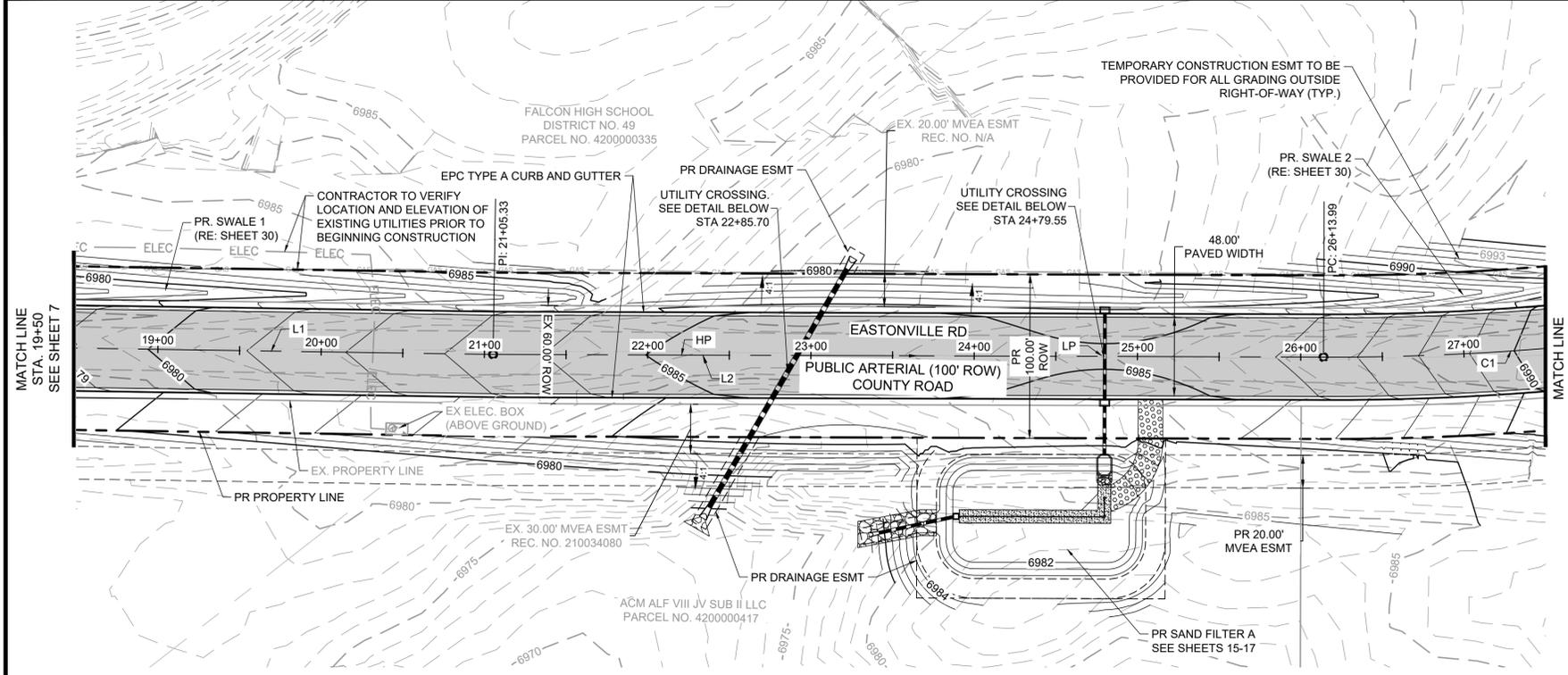
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 EL PASO COUNTY, COLORADO

EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 PLAN & PROFILE

SHEET
PP.1
7



Line Table			Curve Table			
Line #	Length	Direction	Curve #	Length	Radius	Delta
L1	460.78	N 38°15'31" E	C1	1263.66	1600.00	45°15'05"
L2	508.66	N 37°34'53" E				



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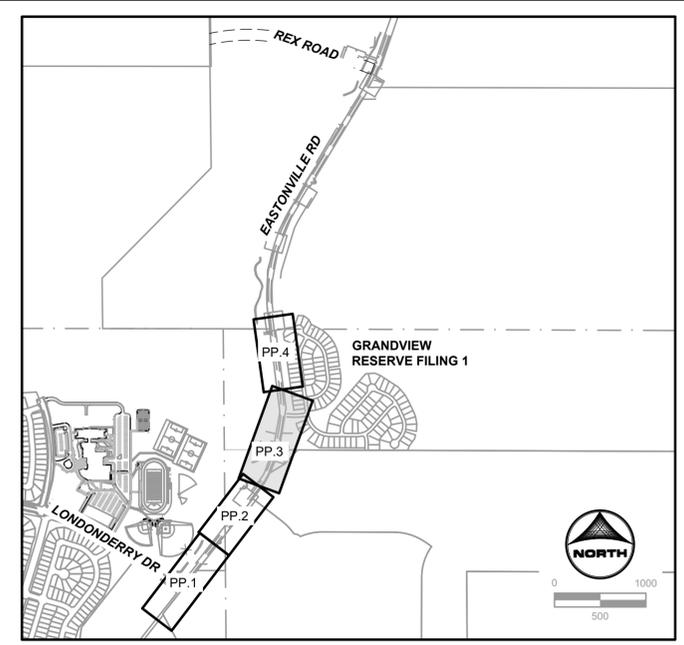
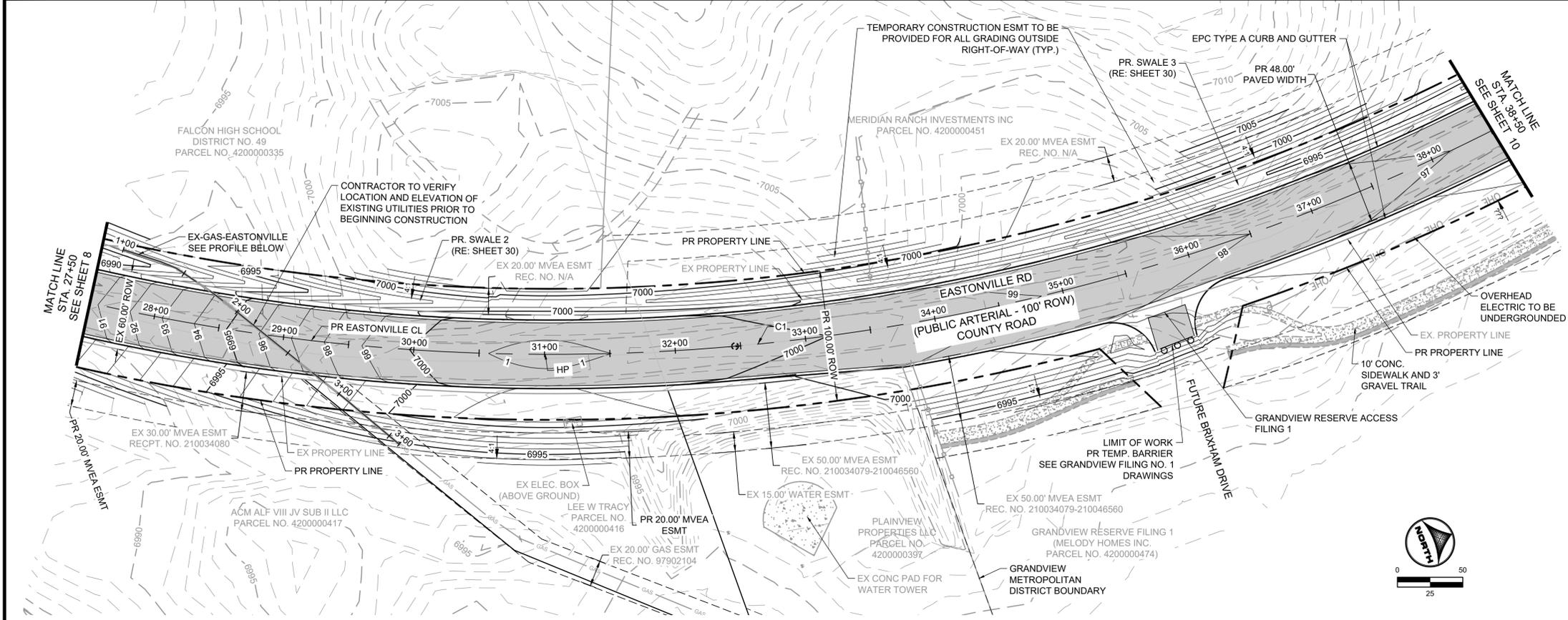
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 EL PASO COUNTY, COLORADO

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 PLAN & PROFILE

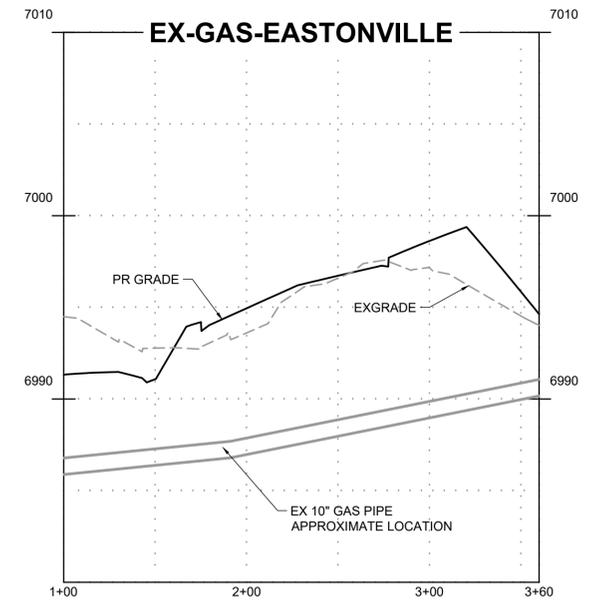
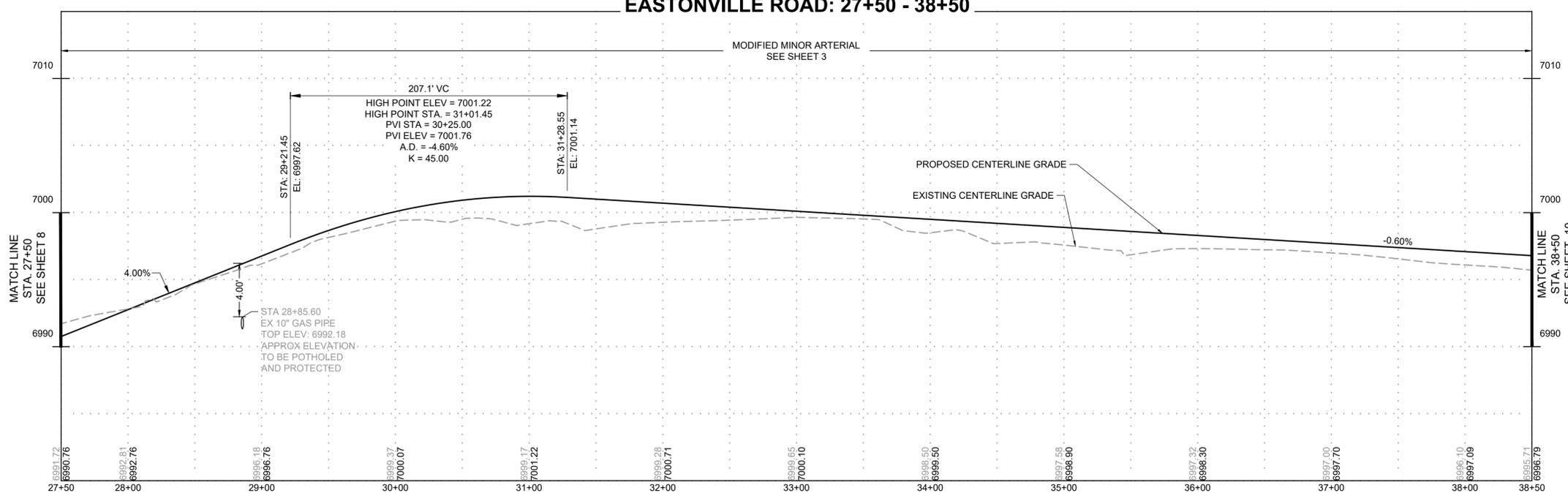
SHEET
PP.2
8



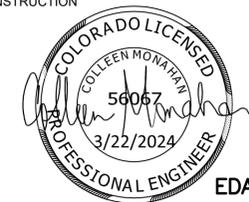
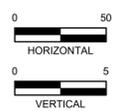
Curve Table

Curve #	Length	Radius	Delta
C1	1263.66	1600.00	45°15'05"

EASTONVILLE ROAD: 27+50 - 38+50



NOTE: CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF GAS LINE PRIOR TO CONSTRUCTION



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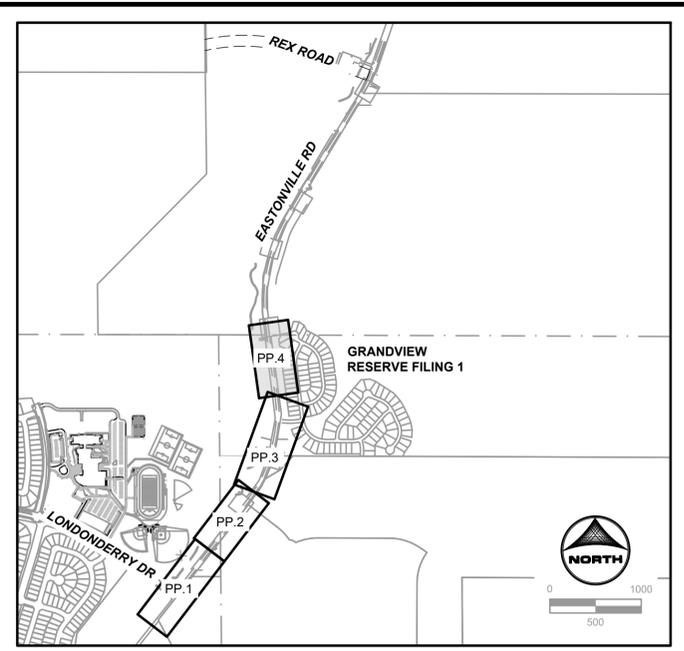
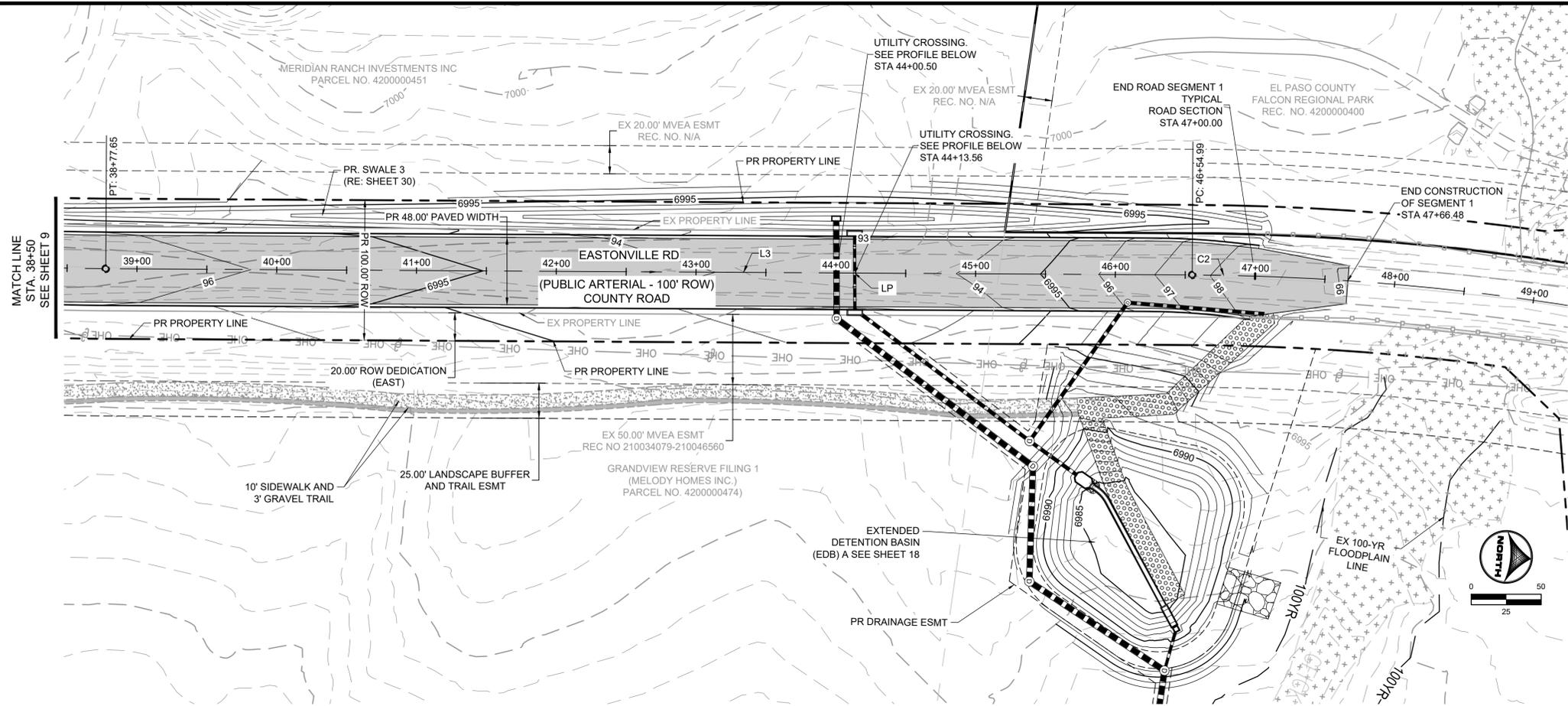
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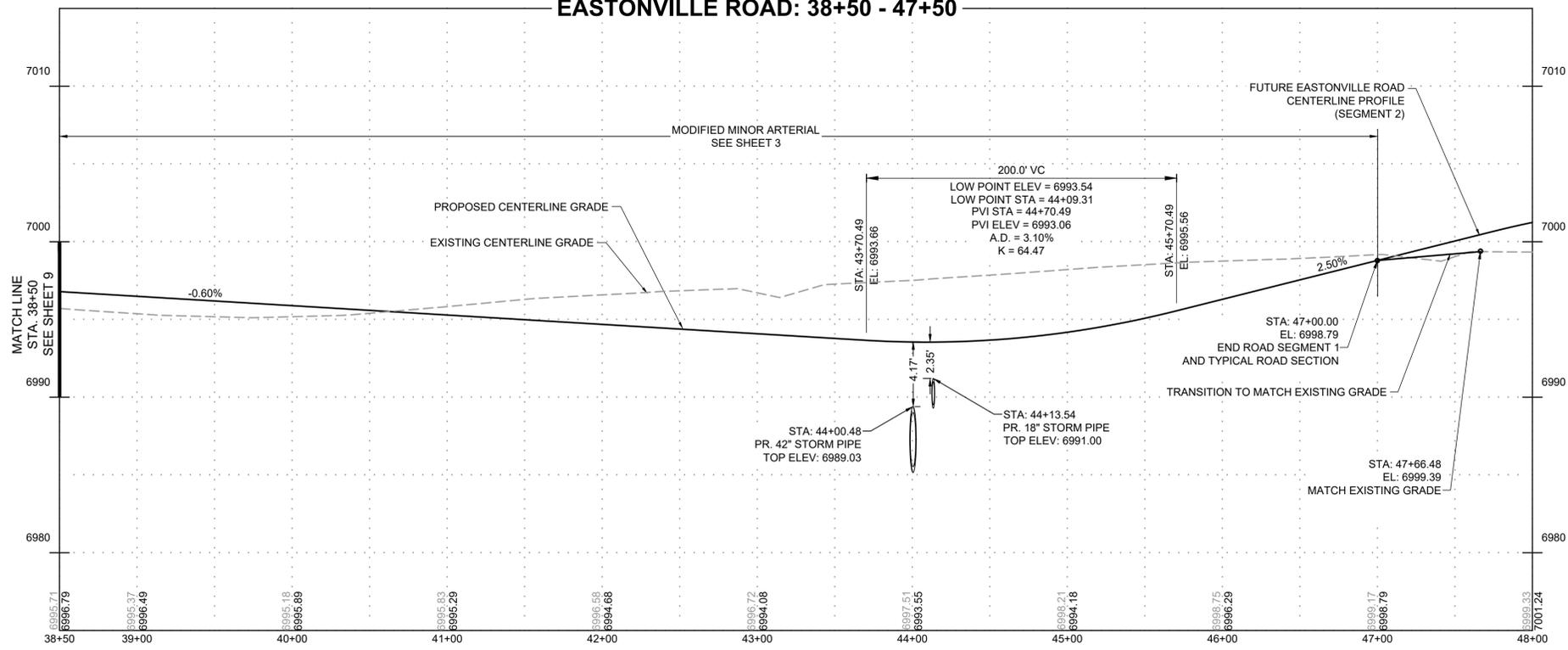
EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 PLAN & PROFILE

SHEET
PP.3
9



Line Table			Curve Table			
Line #	Length	Direction	Curve #	Length	Radius	Delta
L3	777.34	N 7°40'18" W	C2	45.01	1800.00	1°25'58"

EASTONVILLE ROAD: 38+50 - 47+50



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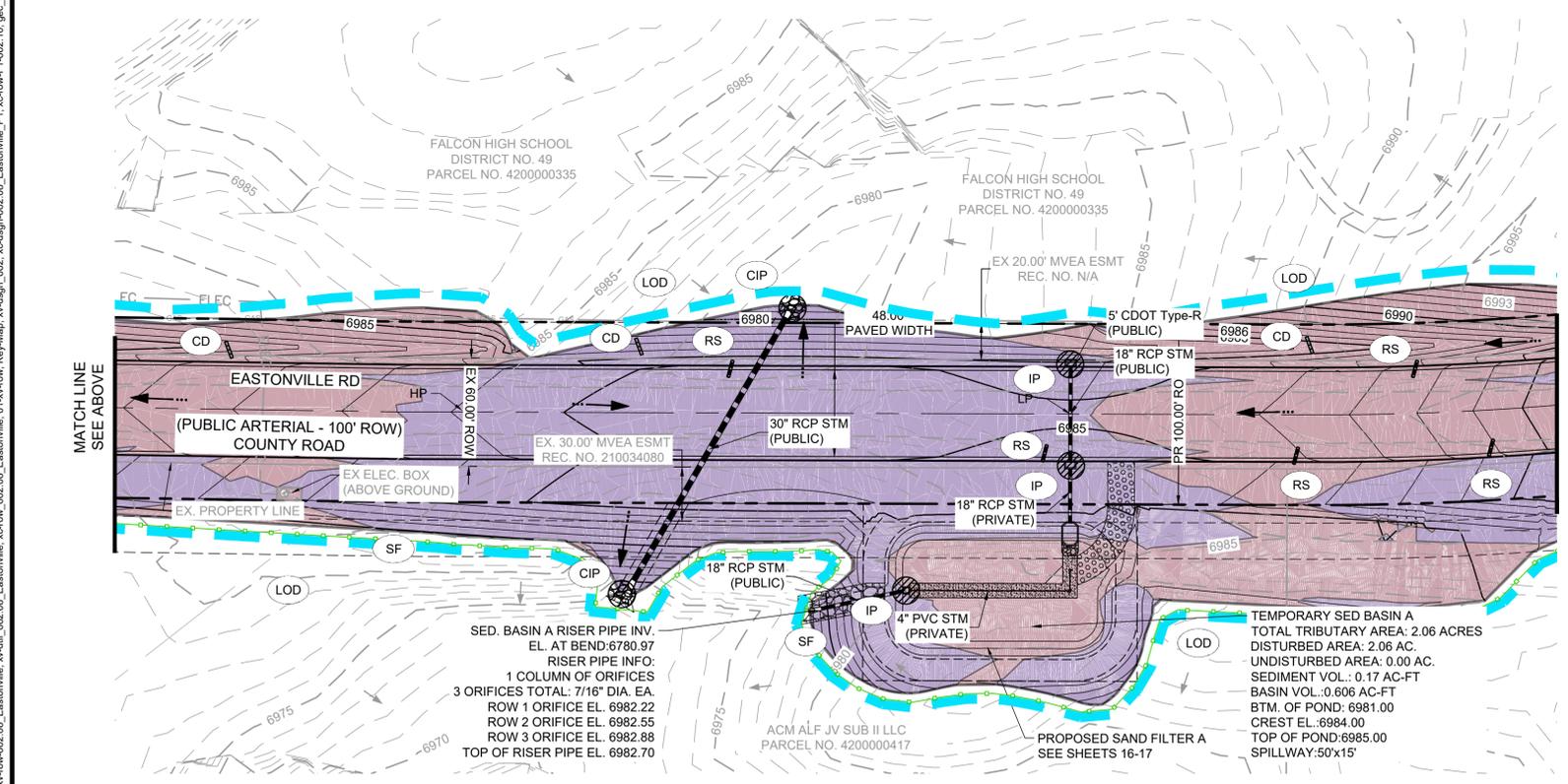
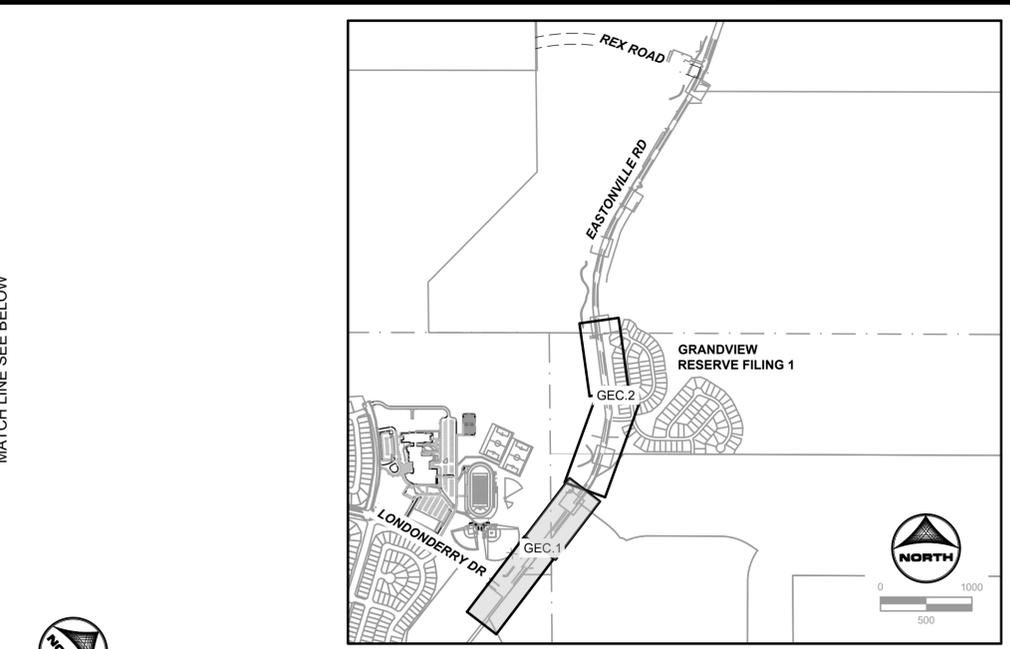
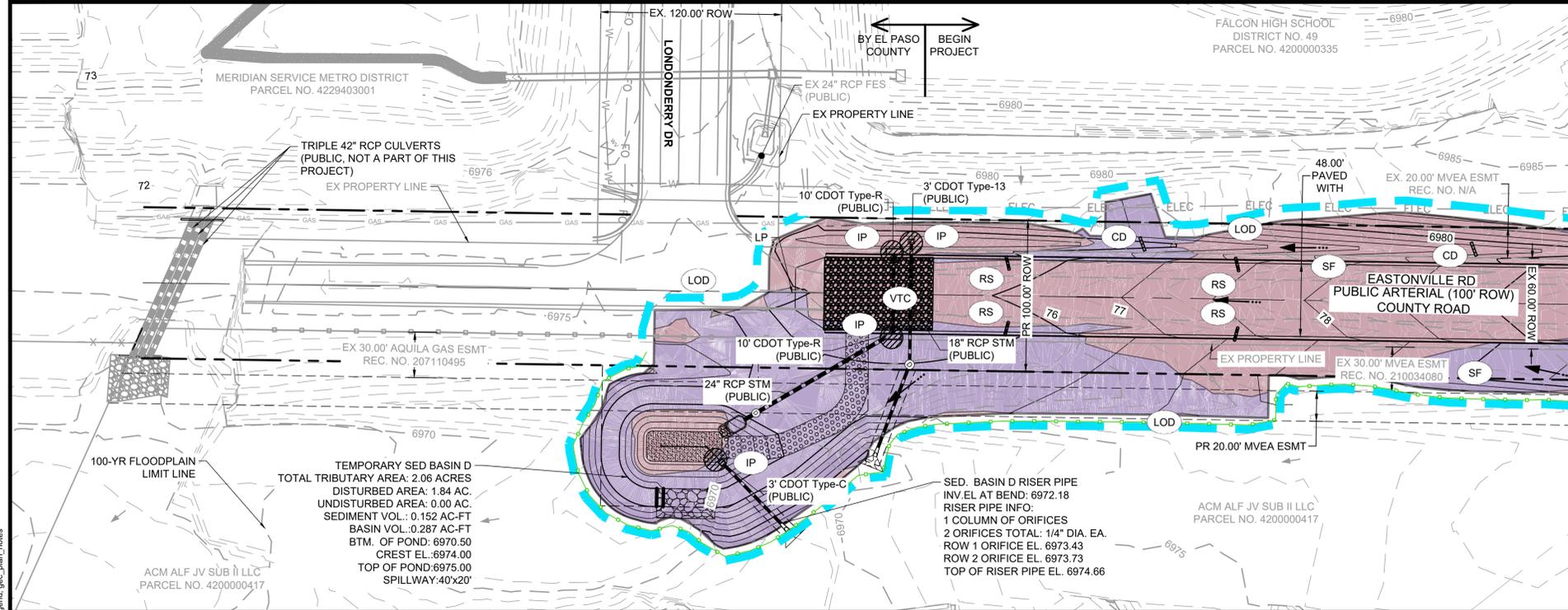


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DR. HORTON
 EL PASO COUNTY, COLORADO

EASTONVILLE ROAD SEGMENT 1 IMPROVEMENTS
 PLAN & PROFILE

SHEET
PP.4 10



GRADING & EROSION CONTROL PLAN NOTES:

- SEE SHEETS 31-32 FOR EL PASO COUNTY GRADING AND EROSION CONTROL DETAILS.
- ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS PLAN MUST BE INSTALLED AND MAINTAINED PER THE EL PASO COUNTY STORMWATER CONSTRUCTION MANUAL; LATEST REVISIONS.
- AREA WITHIN LIMITS OF DISTURBANCE TO BE CLEARED, GRUBBED AND STOCKPILED PRIOR TO IMPORT OF ANY FILL.
- ALL GREATER THAN 3:1 SLOPES MUST RECEIVE SLOPE TRACKING TREATMENT AND EROSION CONTROL BLANKET.
- STOCKPILES REQUIRED DURING ONSITE CONSTRUCTION ACTIVITIES WILL BE PLACED AT THE DISCRETION OF THE CONTRACTOR. STOCKPIILING OF MATERIAL MUST NOT OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN.
- NON-STRUCTURAL CONTROLS (I.E. STREET SWEEPING) WILL BE AT THE DISCRETION OF THE PROJECT'S CERTIFIED GEC ADMINISTRATOR THROUGHOUT THE DURATION OF LAND DISTURBING ACTIVITIES.
- THERE ARE NO ANTICIPATED ASPHALT AND/OR CONCRETE BATCH PLANTS, OR MASONRY MIX STATIONS ASSOCIATED WITH THIS PROJECT. IF THE CONTRACTOR REQUIRES A ASPHALT/CONCRETE BATCH PLANTS OR MASONRY MIX STATIONS, THESE PLANS WILL BE AMENDED AS REQUIRED.
- THERE ARE NO EXISTING PRESERVATION EASEMENTS LOCATED ON SITE.
- ONSITE EXISTING VEGETATION IS NATIVE GRASSES AND WEEDS. THERE IS NO NOTABLE VEGETATION OTHERWISE.
- ALL GRASS SWALES SHALL BE PERMANENTLY SEEDED AND MULCHED. TEMPORARY IRRIGATION TO BE PROVIDED. GRASS SWALE ENDS AT CISTERN LOCATION
- ALL INITIAL/INTERIM TEMPORARY BMPs TO BE REMOVED UPON FINAL STABILIZATION OF THE SITE
- ALL DISTURBED AREAS NOT PAVED OR GRAVEL WITHIN THE LOD WILL BE SEEDED AND MULCHED

PROJECT INFO:
 CUT VOLUME: 15,904 CY
 FILL VOLUME: 24,305 CY
 NET: 8,401 (FILL) CY [UNADJUSTED FOR PAVEMENT DEPTH]
 NET: 5,417 (FILL) CY [ADJUSTED FOR 6" PAVEMENT DEPTH]

PHASE

CWA	CONCRETE WASHOUT AREA	INTERIM
IP	INLET PROTECTION	INTERIM
CIP	CULVERT INLET PROTECTION	INTERIM
SF	SILT FENCE	INITIAL/INTERIM
SSA	STABILIZED STAGING AREA	INTERIM
VTC	VEHICLE TRACKING CONTROL	INITIAL
EDB	EXTENDED DETENTION BASIN	FINAL
TSB	TEMPORARY SEDIMENT BASIN	INTERIM
CD	CHECK DAM	INTERIM
RS	ROCK SOCK	INTERIM
LOD	LIMITS OF CONSTRUCTION/ DISTURBANCE	FINAL

KEYMAP

GEC LEGEND:

- PROF FLOW DIRECTION
- EX FLOW DIRECTION
- EX PROPERTY LINE
- EX RIGHT OF WAY
- CUT CONDITION
- FILL CONDITION



TABLE 1.1 - STRAW BALE CHECK DAM SPACING

SLOPE @ CHANNEL FLOWLINE (%)	MAX SPACING (FEET)
0.5 - 0.75	200
0.75 - 1	150
1 - 1.25	120
1.25 - 1.5	100
1.5 - 1.75	85
1.75 - 2	75
2-2.5	60



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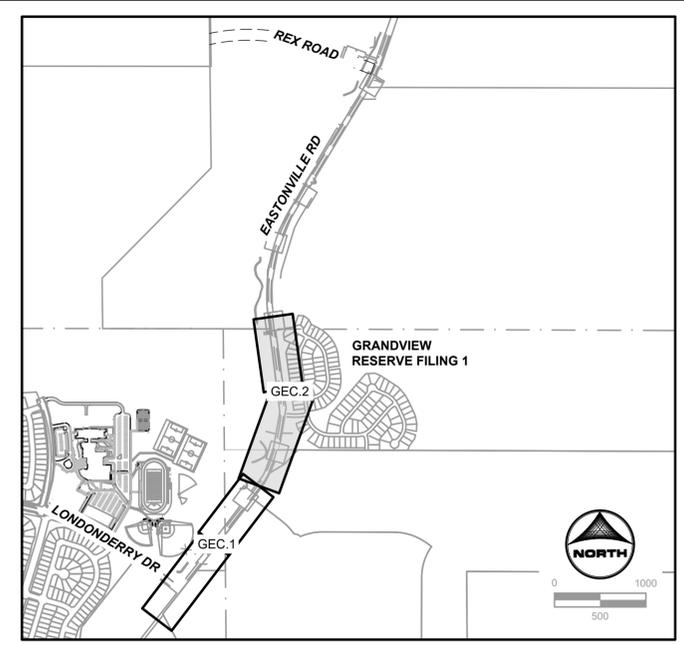
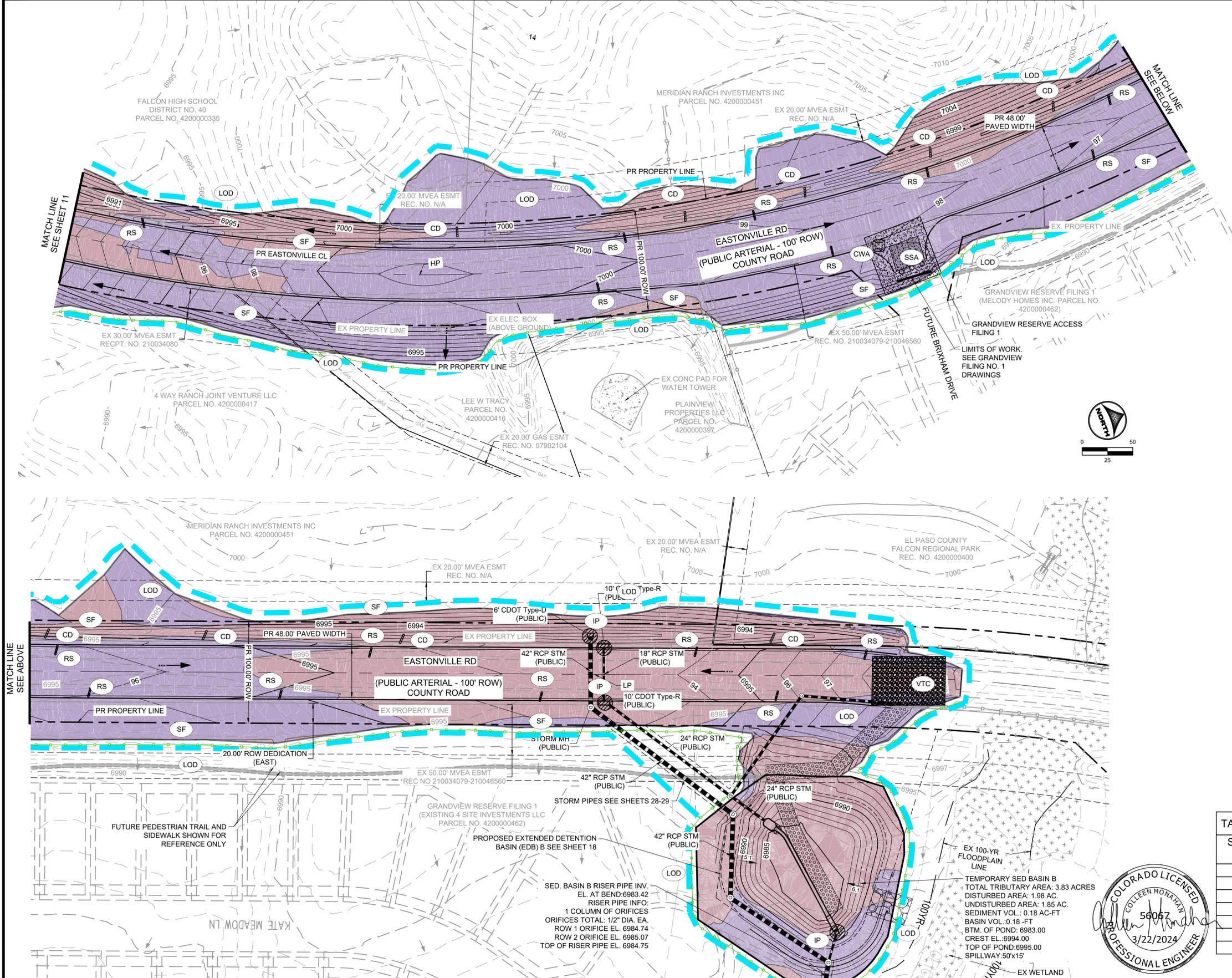
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EASTONVILLE ROAD IMPROVEMENTS
 DR. HORTON
 EL PASO COUNTY, COLORADO

EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 GRADING & EROSION CONTROL PLAN

SHEET
GEC.1 11

EDARP FILING NO. 2321



GEC LEGEND:

	CWA	CONCRETE WASHOUT AREA	INTERIM
	IP	INLET PROTECTION	INTERIM
	CIP	CULVERT INLET PROTECTION	INTERIM
	SF	SILT FENCE	INITIAL/INTERIM
	SSA	STABILIZED STAGING AREA	INTERIM
	VTC	VEHICLE TRACKING CONTROL	INITIAL
	EDB	EXTENDED DETENTION BASIN	FINAL
	TSB	TEMPORARY SEDIMENT BASIN	INTERIM
	CD	CHECK DAM	INTERIM
	RS	ROCK SOCK	INTERIM
	LOD	LIMITS OF CONSTRUCTION/DISTURBANCE	

PHASE

NOTE: ALL DISTURBED AREAS OUTSIDE OF THE PROPOSED ROADWAY SECTION SHALL BE RESEEDED AND MULCHED WITH NATIVE GRASSES PER EL PASO COUNTY SEED MIX

TABLE 1.1 - STRAW BALE CHECK DAM SPACING

SLOPE @ CHANNEL FLOWLINE (%)	MAX SPACING (FEET)
0.5 - 0.75	200
0.75 - 1	150
1 - 1.25	120
1.25 - 1.5	100
1.5 - 1.75	85
1.75 - 2	75
2-2.5	60



EDARP FILING NO. 2321

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 APPROVED: CPM JOB NUMBER: 201662.08
 CAD DATE: 3/22/2024
 CAD FILE: J:\2020\201662\CAD\Drawings\C\Eastonville_Road_662.08\Segment_1\CD\GEC\GEC

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
 HR GREEN - COLORADO SPRINGS
 1975 RESEARCH PARKWAY SUITE 230
 COLORADO SPRINGS CO 80920
 PHONE: 719.300.4140
 FAX: 713.965.0044

EASTONVILLE ROAD IMPROVEMENTS
 DR. HORTON
 EL PASO COUNTY, COLORADO

EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 GRADING & EROSION CONTROL PLAN

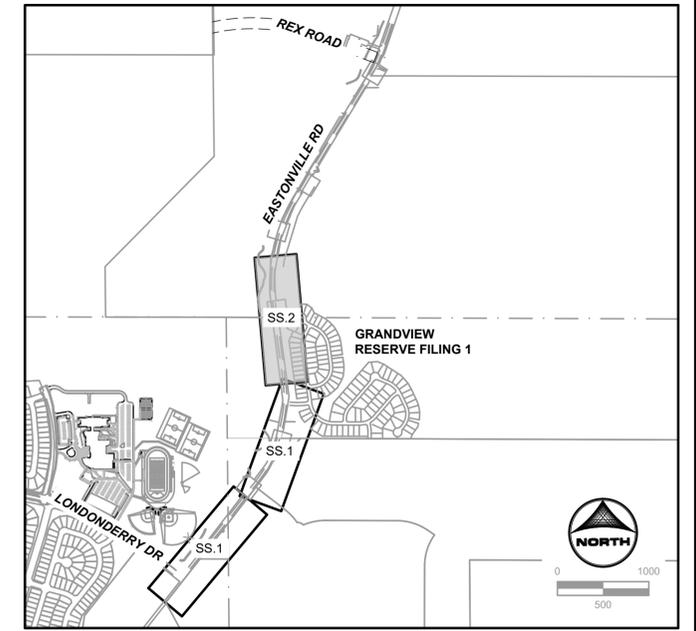
SHEET
GEC.2 12

CONSTRUCTION NOTES:

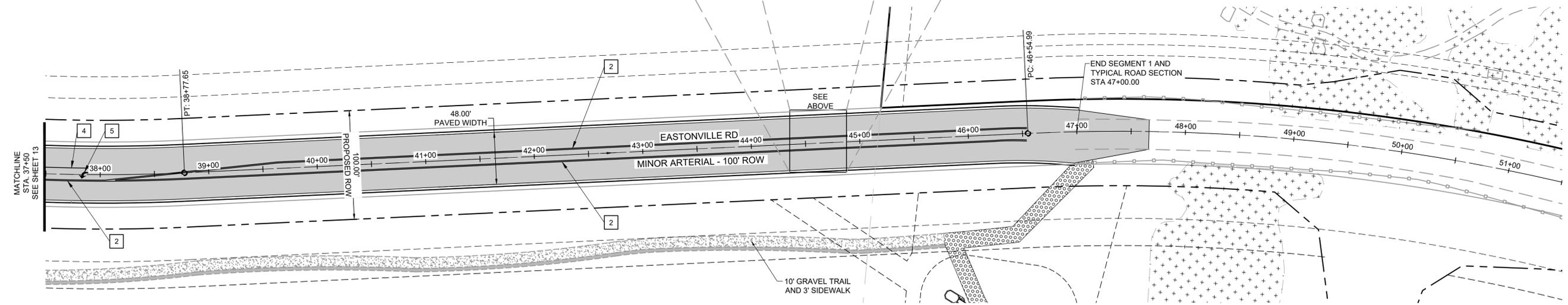
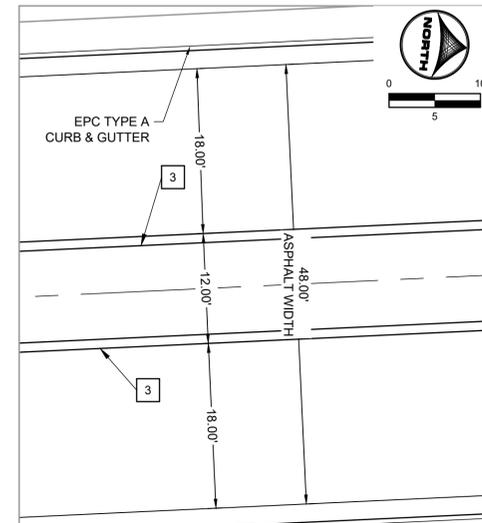
- WHERE CONSTRUCTION DETAILS AND SPECIFICATIONS ARE NOTED ON THESE PLANS USE EL PASO COUNTY STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION.
- ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
- ALL PAVEMENT MARKINGS TO BE THERMO-PLASTIC OR APPROVED EQUAL.

STRIPING LEGEND:

- LANE LINE (4" SOLID DOUBLE YELLOW STRIPE)
- LANE LINE (4" SOLID YELLOW STRIPE)
- LANE LINE (6" SOLID WHITE STRIPE)
- LEFT TURN LANE ARROW (NARROW TYPE, SOLID WHITE, 6" WIDE, 8')



KEYMAP



HR GREEN - COLORADO SPRINGS 1975 RESEARCH PARKWAY SUITE 230 COLORADO SPRINGS CO 80920 PHONE: 719.300.4140 FAX: 719.965.0044

DRAWN BY: ACH	JOB DATE: 3/19/2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: CPM	JOB NUMBER: 201662.08	0 1"
CAD DATE: 3/22/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:\2020\201662\CAD\Drawings\CIEastonville_Road_662.08\Segment_1\CD\Road_CDs\Signage and Striping Plan		

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
 HR GREEN - COLORADO SPRINGS
 1975 RESEARCH PARKWAY SUITE 230
 COLORADO SPRINGS CO 80920
 PHONE: 719.300.4140
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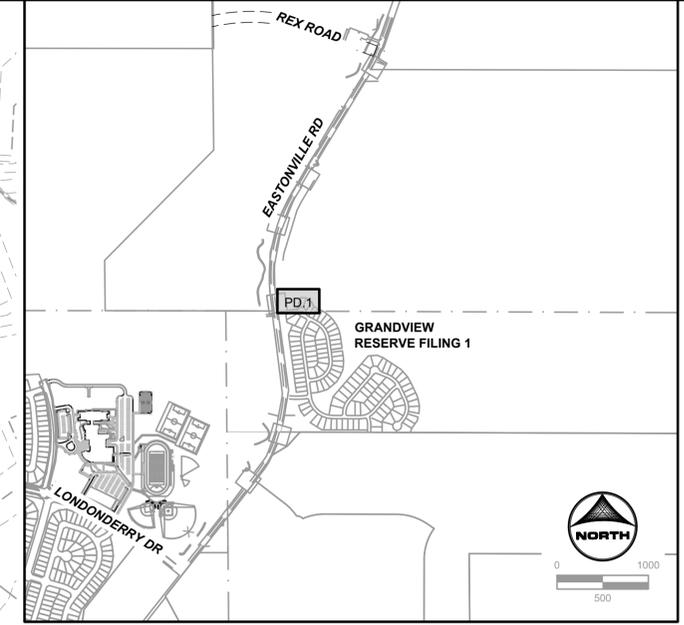
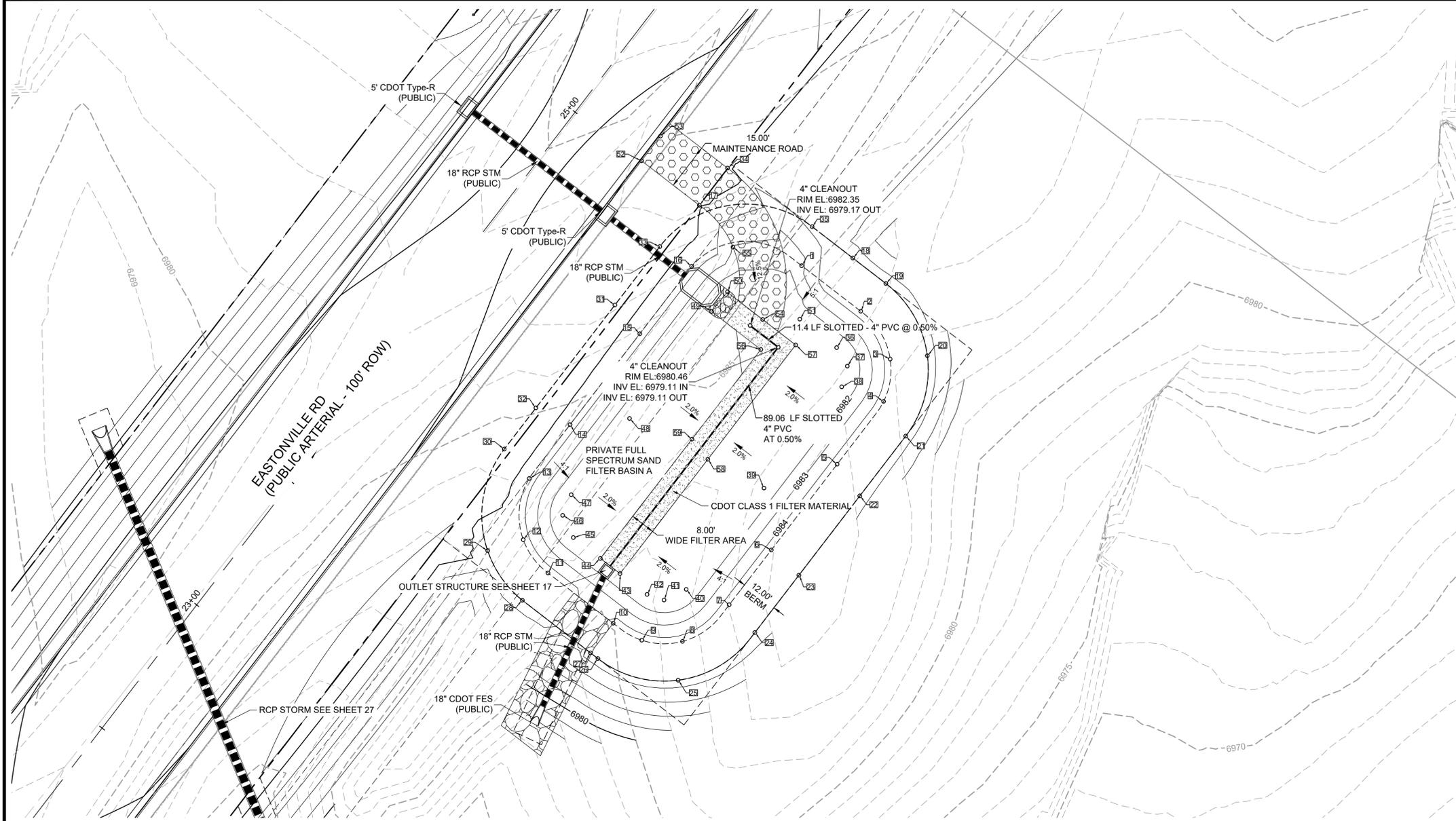
EASTONVILLE ROAD IMPROVEMENTS
DR. HORTON
 EL PASO COUNTY, COLORADO

EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 SIGNAGE & STRIPING PLAN

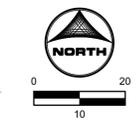
SHEET
SS.2
 14



EDARP FILING NO. 2321



- GRADING NOTES:**
1. ALL PROPOSED CONTOURS ARE TO FINISHED GRADE.
 2. EARTHEN CUT AND FILL SLOPES SHALL BE 3:1 MAXIMUM. SLOPES IN EXCESS OF 4:1 AND AREAS OTHERWISE INDICATED BY WITHIN THESE PLANS, SHALL BE COVERED WITH SOIL RETENTION BLANKET OVER 4" MIN. THICKNESS OF TOPSOIL AND SEEDED.
 3. IF THE PROJECT IS CONSTRUCTED DURING THE SUMMER WHEN SEEDING IS NOT ALLOWED, APPLY 1-1/2 TONS OF CERTIFIED WEED FREE MULCH PER ACRE MECHANICALLY CRIMPED INTO THE SOIL IN COMBINATION WITH AN ORGANIC MULCH TACKIFIER.
 4. PRIOR TO ANY CONSTRUCTION ACTIVITIES THE PROPOSED SILT FENCE SHOWN ON THE EROSION CONTROL SHEET SHALL BE CONSTRUCTED. THE FENCE SHALL BE REMOVED UPON THE LATER OF STABILIZATION OF THE SITE OR COMPLETION OF CONSTRUCTION.
 5. TO REDUCE THE POTENTIAL FOR CLOGGING OF DEBRIS GRATES, NO STRAW MULCH SHALL BE USED WITHIN THE EURY OR WQCV OF A DETENTION BASIN. INSTEAD, EROSION CONTROL BLANKETS SHALL BE INSTALLED FOR A WIDTH OF AT LEAST 6 FEET ON EITHER SIDE OF CONCRETE LOW-FLOW CHANNELS. THE BLANKETS SHALL COMPLY WITH THE MATERIALS AND INSTALLATION REQUIREMENTS FOR EROSION CONTROL BLANKETS (STRAW COCONUT OR 100 PERCENT COCONUT.) SITE-SPECIFIC CONDITIONS MAY REQUIRE ADDITIONAL BLANKET OR OTHER EROSION CONTROL MEASURES.



POINT TABLE			POINT TABLE			POINT TABLE			POINT TABLE			POINT TABLE			POINT TABLE								
No.	DESC.	NORTHING & EASTING	ELEV.	No.	DESC.	NORTHING & EASTING	ELEV.	No.	DESC.	NORTHING & EASTING	ELEV.	No.	DESC.	NORTHING & EASTING	ELEV.	No.	DESC.	NORTHING & EASTING	ELEV.				
1	TOP	N: 1418535.18 E: 3264537.48	6982.83	12	TOP	N: 1418447.04 E: 3264447.74	6984.50	23	TOP	N: 1418435.62 E: 3264536.58	6984.50	34	TOP	N: 1418566.56 E: 3264513.56	6985.52	45	BOP	N: 1418447.72 E: 3264463.88	6981.22	56	MAINT. RD	N: 1418508.22 E: 3264524.32	6981.00
2	TOP	N: 1418520.52 E: 3264556.53	6984.50	13	TOP	N: 1418466.72 E: 3264449.66	6984.50	24	TOP	N: 1418417.18 E: 3264522.39	6984.50	35	TOP	N: 1418547.73 E: 3264540.85	6984.22	46	BOP	N: 1418454.87 E: 3264460.44	6981.33	57	MAINT. RD	N: 1418509.68 E: 3264535.54	6981.00
3	TOP	N: 1418505.13 E: 3264566.02	6984.50	14	TOP	N: 1418484.06 E: 3264462.82	6984.50	25	TOP	N: 1418401.85 E: 3264497.66	6984.49	36	BOP	N: 1418508.83 E: 3264548.76	6981.41	47	BOP	N: 1418461.52 E: 3264463.22	6981.41	58	MAINT. RD	N: 1418472.91 E: 3264507.24	6981.00
4	TOP	N: 1418491.51 E: 3264563.89	6984.50	15	TOP	N: 1418513.30 E: 3264485.32	6984.50	26	TOP	N: 1418408.82 E: 3264471.80	6984.50	37	BOP	N: 1418502.86 E: 3264552.20	6981.41	48	BOP	N: 1418486.02 E: 3264482.00	6981.41	59	MAINT. RD	N: 1418479.36 E: 3264502.11	6981.00
5	TOP	N: 1418471.31 E: 3264548.91	6984.50	16	TOP	N: 1418534.96 E: 3264501.99	6984.51	27	TOP	N: 1418410.65 E: 3264469.42	6984.50	38	BOP	N: 1418496.21 E: 3264550.41	6981.41	49	BOP	N: 1418520.42 E: 3264508.47	6981.00				
6	TOP	N: 1418443.72 E: 3264527.68	6984.50	17	TOP	N: 1418554.61 E: 3264447.50	6985.06	28	TOP	N: 1418427.56 E: 3264447.44	6984.49	39	BOP	N: 1418463.64 E: 3264525.34	6981.41	50	BOP	N: 1418526.76 E: 3264513.59	6981.01				
7	TOP	N: 1418426.11 E: 3264514.12	6984.50	18	TOP	N: 1418537.63 E: 3264553.97	6984.50	29	TOP	N: 1418443.52 E: 3264436.28	6984.50	40	BOP	N: 1418431.07 E: 3264500.27	6981.41	51	BOP	N: 1418517.98 E: 3264536.88	6981.37				
8	TOP	N: 1418414.33 E: 3264499.06	6984.50	19	TOP	N: 1418529.44 E: 3264564.62	6984.50	30	TOP	N: 1418476.20 E: 3264441.63	6985.79	41	BOP	N: 1418427.64 E: 3264493.13	6981.30	52	BEGIN MAINT. RD	N: 1418568.94 E: 3264485.87	6985.03				
9	TOP	N: 1418414.71 E: 3264485.96	6984.50	20	TOP	N: 1418506.22 E: 3264477.98	6984.49	31	TOP	N: 1418522.52 E: 3264477.27	6985.46	42	BOP	N: 1418429.43 E: 3264487.65	6981.22	53	BEGIN MAINT. RD	N: 1418576.86 E: 3264491.97	6985.07				
10	TOP	N: 1418420.16 E: 3264476.74	6984.50	21	TOP	N: 1418480.35 E: 3264471.01	6984.50	32	TOP	N: 1418489.44 E: 3264451.82	6985.69	43	BOP	N: 1418436.14 E: 3264478.93	6981.00	54	MAINT. RD/BP	N: 1418517.87 E: 3264524.89	6981.00				
11	TOP	N: 1418436.33 E: 3264455.72	6984.50	22	TOP	N: 1418461.13 E: 3264455.21	6984.50	33	TOP	N: 1418541.13 E: 3264491.76	6985.43	44	BOP	N: 1418441.01 E: 3264472.59	6981.00	55	MAINT. RD/BP	N: 1418541.16 E: 3264515.33	6982.94				

ABBREVIATIONS
 TC = TRICKLE CHANNEL
 BP/BOP = BOTTOM OF POND
 TOP = TOP OF POND
 SW = SPILLWAY



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DRAWN BY: ACH JOB DATE: 3/6/2024
 APPROVED: CPM JOB NUMBER: 201662.08
 CAD DATE: 3/22/2024
 CAD FILE: J:\2020\201662\CAD\Drawings\Eastonville_Road_662.08\Segment_1\CD\Road_CDs\Sand_Filter

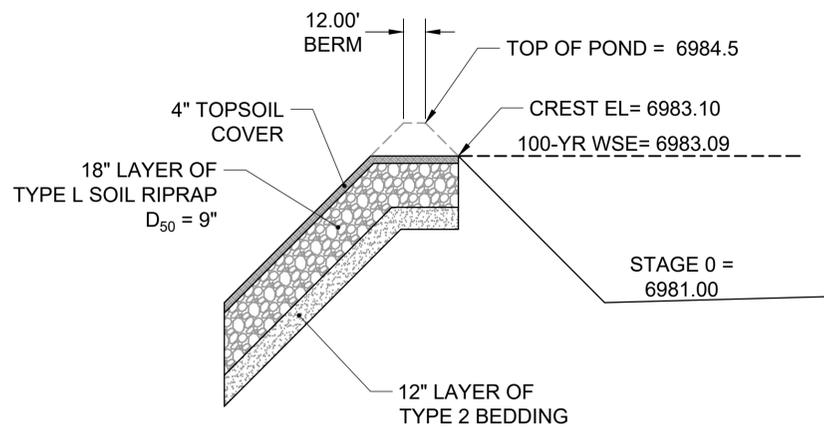
NO.	DATE	BY	REVISION DESCRIPTION

HRGreen
 HR GREEN - COLORADO SPRINGS
 1975 RESEARCH PARKWAY SUITE 230
 COLORADO SPRINGS CO 80920
 PHONE: 719.300.4140
 FAX: 713.965.0044

EASTONVILLE ROAD IMPROVEMENTS
DR. HORTON
 EL PASO COUNTY, COLORADO

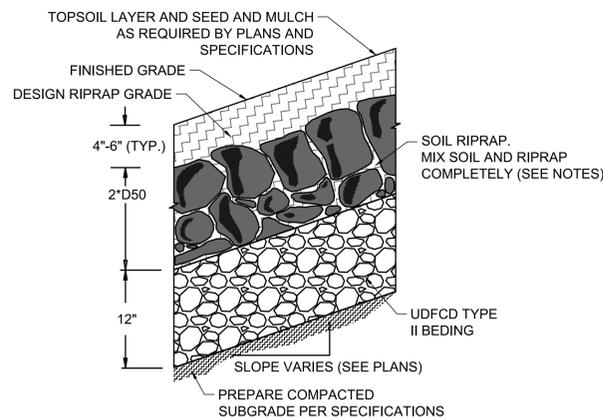
EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 SFB A (PUBLIC) GRADING PLAN

SHEET
PD.1
 15



**PROFILE VIEW –
EMERGENCY OVERFLOW SPILLWAY**

SCALE: NTS



**SOIL RIPRAP EMBANKMENT PROTECTION
WITH BEDDING TYP. SECTION**
N.T.S

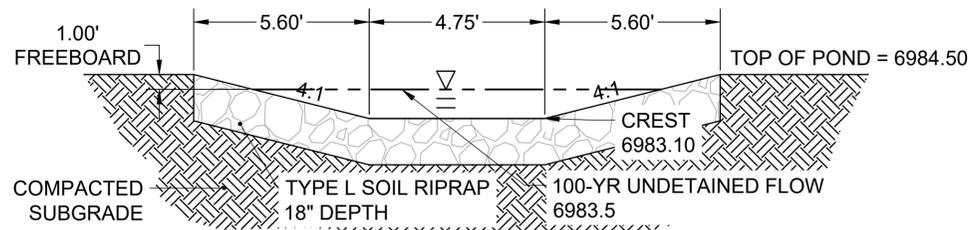
TYPE L RIPRAP

INTERMEDIATE ROCK DIMENSION (IN .)	PERCENT PASSING (%)
15	70-100
12	50-70
9	35-50
3	2-10

*TYPE L RIPRAP D50=9"
D50=MEAN PARTICLE SIZE
(INTERMEDIATE DIMENSION) BY WEIGHT

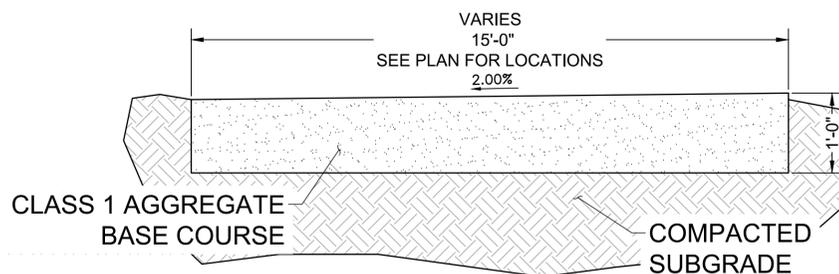
RIPRAP NOTES.

1. SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS REFER TO THE SITE PLAN ACTUAL LOCATION AND LIMITS.
2. MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.
3. PLACE STONE-SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE.
4. CRIMP OR TACKIFY MULCH OR USE APPROVED HYDROMULCH AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.
5. ROCK SHALL BE HARD, DURABLE, ANGULAR IN SHAPE, AND FREE FROM CRACKS, OVERBURDEN, SHALE, AND ORGANIC MATTER.
6. NEITHER BREADTH NOR THICKNESS OF A SINGLE STONE SHOULD BE LESS THAN ONE-THIRD ITS LENGTH, AND ROUNDED STONE SHOULD BE AVOIDED.
7. THE ROCK SHOULD SUSTAIN A LOSS OF NOT MORE THAN 40% AFTER 500 REVOLUTIONS IN AN ABRASION TEST (LOS ANGELES MACHINEASTM C-535-69) AND SHOULD SUSTAIN A LOSS OF NOT MORE THAN 10% AFTER 12 CYCLES OF FREEZING AND THAWING (AASHTO TEST 103 FOR LEDGE ROCK PROCEDURE A).
8. ROCK HAVING A MINIMUM SPECIFIC GRAVITY OF 2.65 IS PREFERRED; HOWEVER, IN NO CASE SHOULD ROCK HAVE A SPECIFIC GRAVITY LESS THAN 2.50.



**SECTION VIEW –
EMERGENCY SPILLWAY**

SCALE: NTS



MAINTENANCE ROAD TYPICAL

**SECTION
SCALE: NTS**



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 CAD FILE: J:\2020\201662\CAD\Drawings\Eastonville_Road_662.08\Segment_1\CD\Road_CD\Sand_Filter

BAR IS ONE INCH ON
OFFICIAL DRAWINGS.
0
IF NOT ONE INCH,
ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



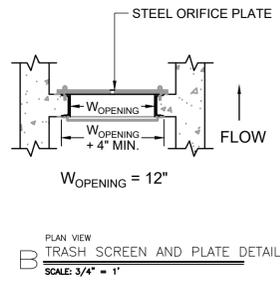
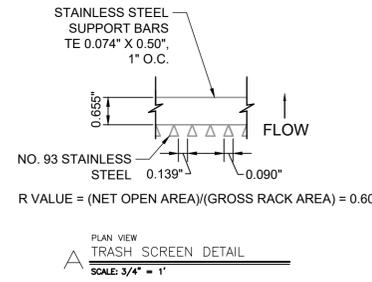
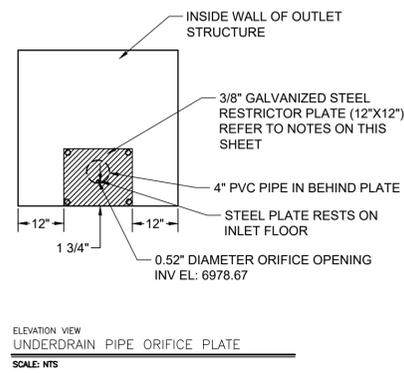
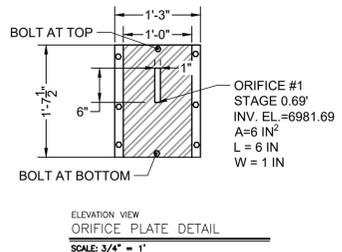
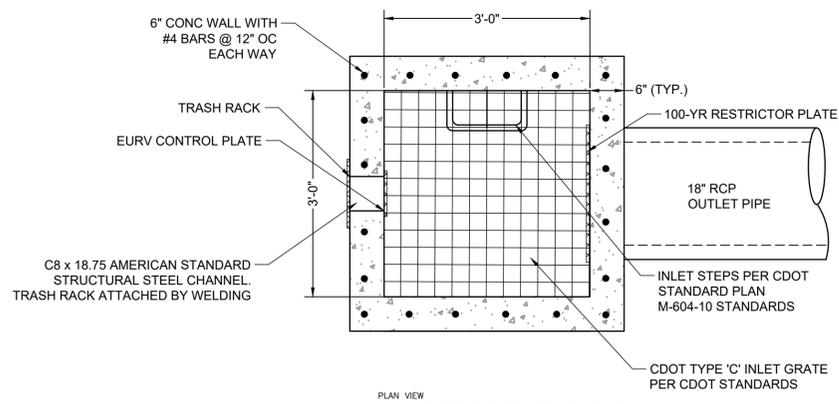
HR GREEN - COLORADO SPRINGS
 1975 RESEARCH PARKWAY SUITE 230
 COLORADO SPRINGS CO 80920
 PHONE: 719.300.4140
 FAX: 713.965.0044

EASTONVILLE ROAD IMPROVEMENTS
DR. HORTON
 EL PASO COUNTY, COLORADO



EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 SFB A (PUBLIC) DETAILS

SHEET
PD.2
16



WARNING
THIS AREA IS A STORMWATER FACILITY
AND IS SUBJECT TO PERIODIC FLOODING

POND WARNING SIGN
SCALE: NTS
MINIMUM SIGN AREA = 3 FT²
SIGNS SHALL BE FABRICATED OF DURABLE MATERIALS, SUCH AS METAL OR PLASTIC, USING RED LETTERING ON A WHITE BACKGROUND

TWO SIGNS, EACH WITH A MINIMUM AREA OF 3 SQUARE FEET, SHALL BE PROVIDED AROUND THE PERIMETER OF ALL DETENTION FACILITIES. THE SIGNS SHALL BE FABRICATED OF DURABLE MATERIALS, SUCH AS METAL OR PLASTIC, USING RED LETTERING ON A WHITE BACKGROUND WITH THE ABOVE MESSAGE

CLASS C FILTER MATERIAL (SOURCE: CDOT TABLE 703-7)	
SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
10 mm (3/4")	100
4.75 mm (No. 4)	60 - 100
300 um (No. 50)	10 - 30
150 um (No. 100)	0 - 10
75 um (No. 200)	0 - 3

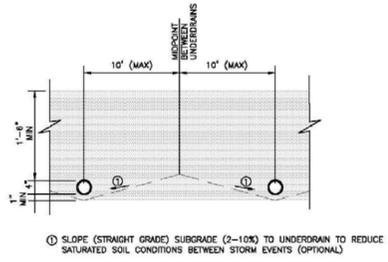
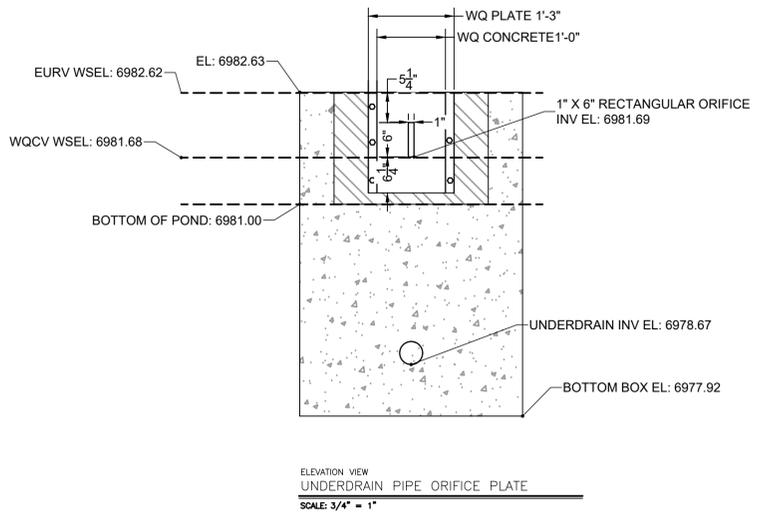
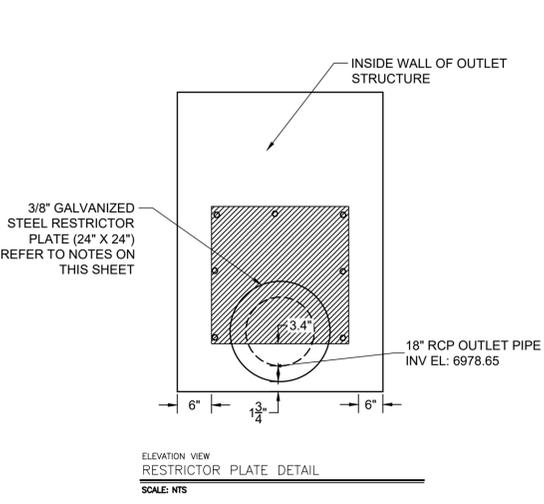
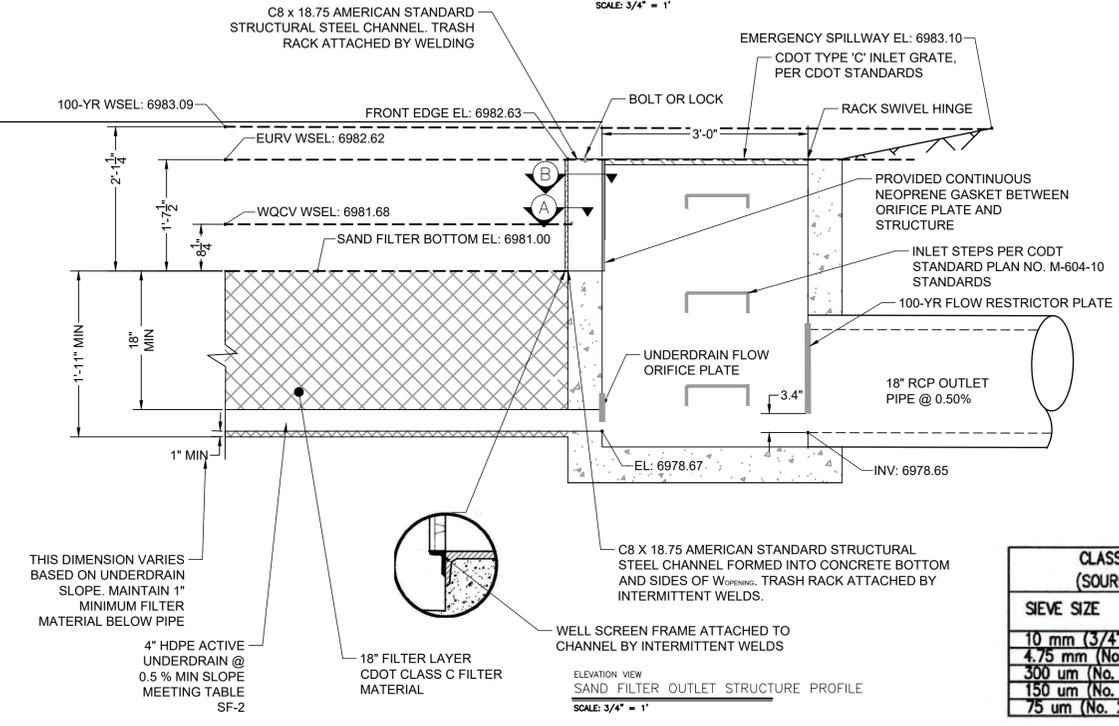


Table SF-2. Dimensions for Slotted Pipe¹

Pipe Size	Slot Length	Maximum Slot Width	Slot Centers	Open Area (per foot)
4"	1-1/16"	0.032"	0.413"	1.90 in²
6"	1-3/8"	0.032"	0.516"	1.98 in²

¹ Pipe must conform to requirements of ASTM designation F949. There shall be no evidence of splitting, cracking, or breaking when the pipe is tested per ASTM test method D2412 in accordance with F949 section 7.5 and ASTM F794 section 8.5. Contech A-2000 slotted pipe (or equal).



EDARP FILING NO. 2321

DRAWN BY: AXB JOB DATE: 3/6/2024 BAR IS ONE INCH ON OFFICIAL DRAWINGS.
 APPROVED: CPM JOB NUMBER: 201662.08 0 1"
 CAD DATE: 3/22/2024 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
 CAD FILE: J:\2020\201662\CAD\DWG\CI\Eastonville_Road_662.08\Segment_1\CD\Road_CD\Sand_Outlet

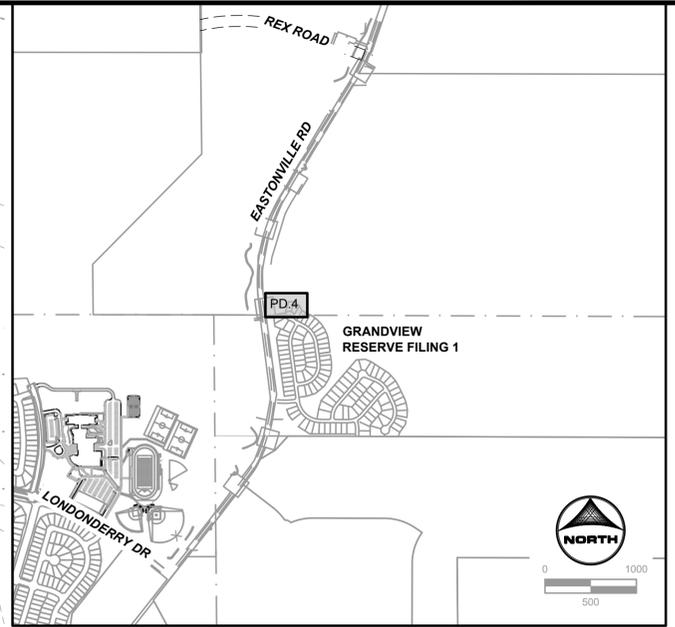
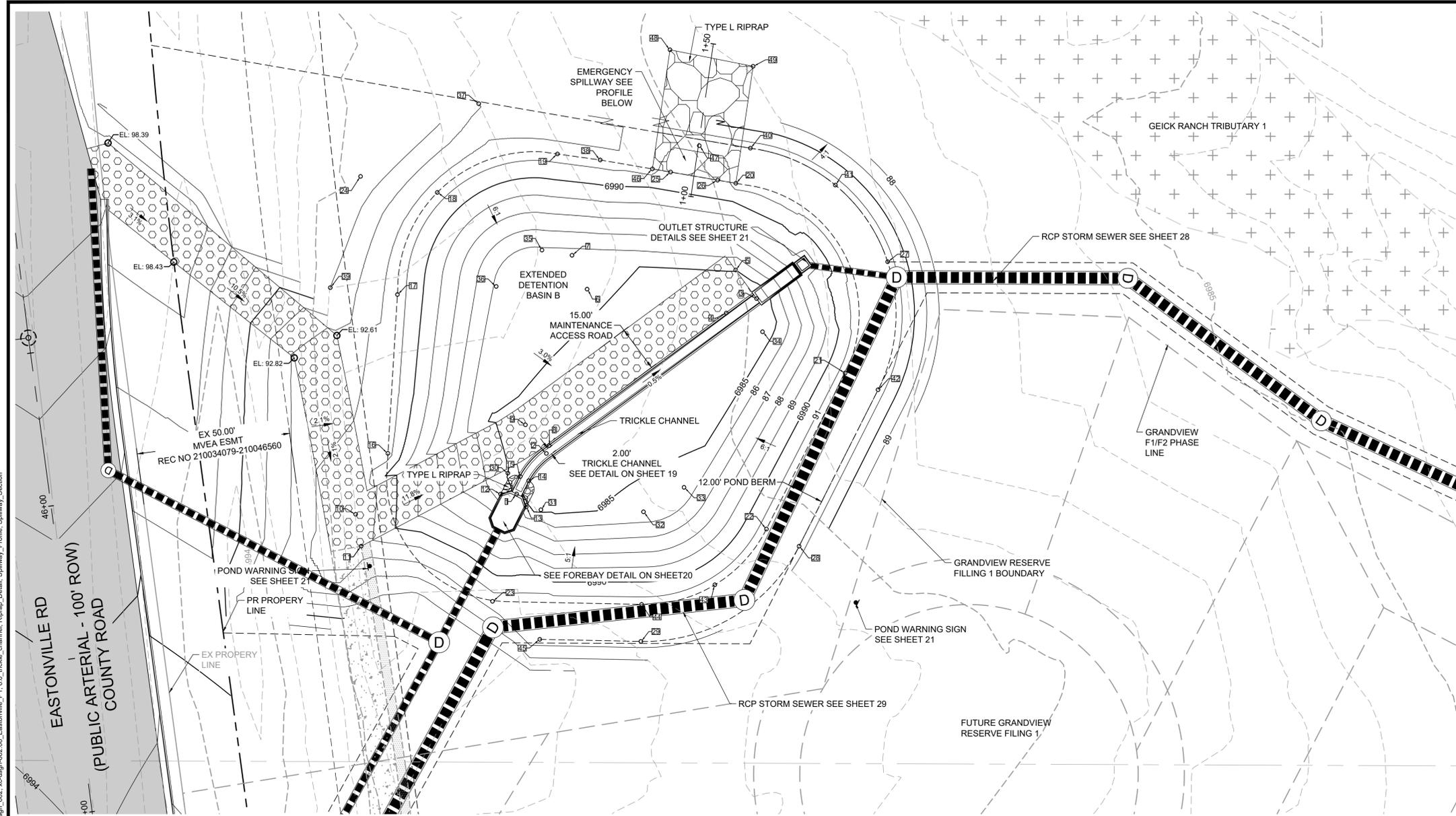
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HRGreen
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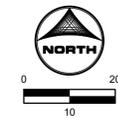
EASTONVILLE ROAD IMPROVEMENTS
DR. HORTON
 EL PASO COUNTY, COLORADO
D-R HORTON
America's Builder

EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 SFB A (PUBLIC) OUTLET STRUCTURE

SHEET
 PD.3
 17



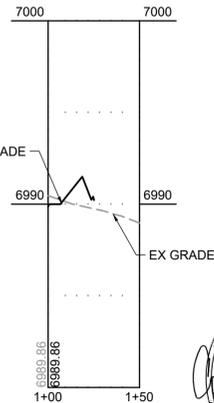
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POINT TABLE			POINT TABLE			POINT TABLE			POINT TABLE			POINT TABLE			
No.	DESC.	NORTHING & EASTING	ELEV.	No.	DESC.	NORTHING & EASTING	ELEV.	No.	DESC.	NORTHING & EASTING	ELEV.	No.	DESC.	NORTHING & EASTING	ELEV.
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2	TC FLOWLINE	N: 1420597.18 E: 3264916.23	6983.92	13	RIPRAP	N: 1420579.80 E: 3264909.67	6985.51	24	TOP	N: 1420686.99 E: 3264855.83	6994.85	35	BOP	N: 1420663.10 E: 3264914.80	6985.85
3	TC FLOWLINE	N: 1420647.38 E: 3264984.55	6983.50	14	RIPRAP	N: 1420588.36 E: 3264910.46	6984.44	25	TOP	N: 1420688.41 E: 3264956.60	6990.00	36	BOP	N: 1420651.33 E: 3264899.93	6985.85
4	MAINT. RD	N: 1420642.70 E: 3264974.68	6984.07	15	RIPRAP	N: 1420589.72 E: 3264907.75	6984.48	26	TOP	N: 1420685.79 E: 3264971.89	6990.00	37	TOP	N: 1420710.55 E: 3264894.24	6993.00
5	MAINT. RD/BP	N: 1420656.66 E: 3264977.73	6985.09	16	TOP	N: 1420597.21 E: 3264864.72	6991.50	27	TOP	N: 1420659.33 E: 3265027.14	6991.49	38	TOP	N: 1420692.33 E: 3264933.72	6991.50
6	MAINT. RD	N: 1420650.44 E: 3264929.47	6985.23	17	TOP	N: 1420648.71 E: 3264867.80	6991.50	28	TOP	N: 1420567.11 E: 3264998.37	6991.50	39	TOP	N: 1420650.93 E: 3264845.97	6994.00
7	MAINT. RD/BP	N: 1420661.43 E: 3264924.56	6985.58	18	TOP	N: 1420681.80 E: 3264880.76	6991.50	29	TOP	N: 1420536.27 E: 3264946.94	6991.50	40	TOP	N: 1420696.14 E: 3264982.52	6991.50
8	MAINT. RD/BP	N: 1420599.72 E: 3264917.12	6984.41	19	TOP	N: 1420694.27 E: 3264919.83	6991.50	30	BOP	N: 1420590.80 E: 3264903.71	6985.00	41	TOP	N: 1420684.18 E: 3265010.15	6991.49
9	MAINT. RD/BP	N: 1420606.47 E: 3264909.41	6984.69	20	TOP	N: 1420684.77 E: 3264977.80	6991.50	31	BOP	N: 1420578.94 E: 3264914.45	6984.64	42	TOP	N: 1420617.84 E: 3265024.03	6991.50
10	MAINT. RD	N: 1420577.47 E: 3264854.21	6991.47	21	TOP	N: 1420623.26 E: 3264851.33	6991.50	32	BOP	N: 1420578.26 E: 3264947.79	6985.30	43	TOP	N: 1420554.62 E: 3264970.99	6991.50
11	MAINT. RD	N: 1420567.13 E: 3264856.04	6991.50	22	TOP	N: 1420572.68 E: 3264987.74	6991.50	33	BOP	N: 1420586.20 E: 3264960.95	6985.30	44	TOP	N: 1420548.26 E: 3264947.18	6991.50

ABBREVIATIONS
 TC = TRICKLE CHANNEL
 BP/BOP = BOTTOM OF POND
 TOP = TOP OF POND
 SW = SPILLWAY

SPILLWAY



EDARP FILING NO. 2321

DRAWN BY: ACH JOB DATE: 3/18/2024
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 CAD DATE: 3/22/2024
 CAD FILE: J:\2020\201662\CAD\DWG\CIEastonville_Road_662.08\Segment_1\CDD\Road_CDs\Pond_Plans

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
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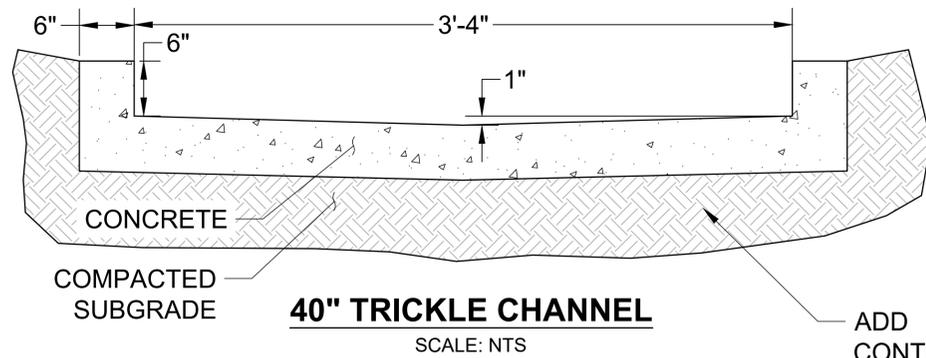
NO.	DATE	BY	REVISION DESCRIPTION

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 HR GREEN - COLORADO SPRINGS
 1975 RESEARCH PARKWAY SUITE 230
 COLORADO SPRINGS CO 80920
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EASTONVILLE ROAD IMPROVEMENTS
DR. HORTON
 EL PASO COUNTY, COLORADO
D-R HORTON
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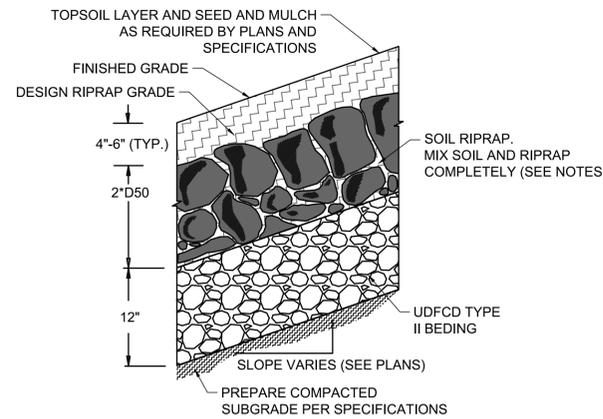
EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 EDB B (PUBLIC) GRADING PLAN

SHEET
PD.4
 18



40" TRICKLE CHANNEL
SCALE: NTS

ADD CONTROL JOINTS EVERY 10 FT



SOIL RIPRAP EMBANKMENT PROTECTION WITH BEDDING TYP. SECTION
N.T.S

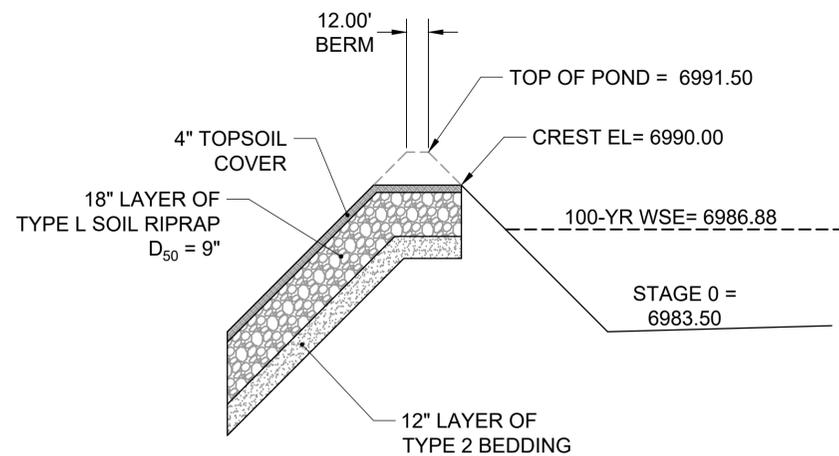
RIPRAP NOTES.

1. SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS REFER TO THE SITE PLAN ACTUAL LOCATION AND LIMITS.
2. MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.
3. PLACE STONE-SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE.
4. CRIMP OR TACKIFY MULCH OR USE APPROVED HYDROMULCH AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.
5. ROCK SHALL BE HARD, DURABLE, ANGULAR IN SHAPE, AND FREE FROM CRACKS, OVERBURDEN, SHALE, AND ORGANIC MATTER.
6. NEITHER BREADTH NOR THICKNESS OF A SINGLE STONE SHOULD BE LESS THAN ONE-THIRD ITS LENGTH, AND ROUNDED STONE SHOULD BE AVOIDED.
7. THE ROCK SHOULD SUSTAIN A LOSS OF NOT MORE THAN 40% AFTER 500 REVOLUTIONS IN AN ABRASION TEST (LOS ANGELES MACHINE ASTM C-535-69) AND SHOULD SUSTAIN A LOSS OF NOT MORE THAN 10% AFTER 12 CYCLES OF FREEZING AND THAWING (AASHTO TEST 103 FOR LEDGE ROCK PROCEDURE A).
8. ROCK HAVING A MINIMUM SPECIFIC GRAVITY OF 2.65 IS PREFERRED; HOWEVER, IN NO CASE SHOULD ROCK HAVE A SPECIFIC GRAVITY LESS THAN 2.50.

TYPE L RIPRAP

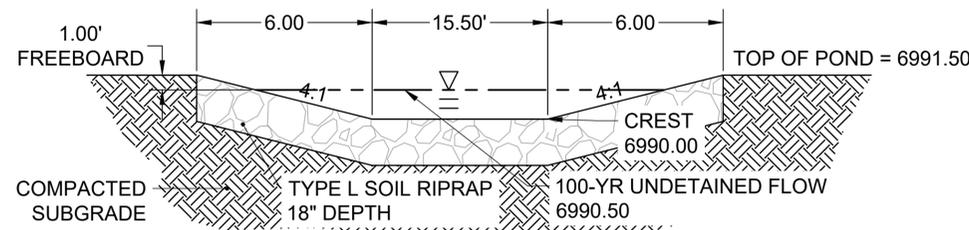
INTERMEDIATE ROCK DIMENSION (IN .)	PERCENT PASSING (%)
15	70-100
12	50-70
9	35-50
3	2-10

*TYPE L RIPRAP D50=9"
D50=MEAN PARTICLE SIZE (INTERMEDIATE DIMENSION) BY WEIGHT



PROFILE VIEW – EMERGENCY OVERFLOW SPILLWAY

SCALE: NTS



SECTION VIEW – EMERGENCY SPILLWAY

SCALE: NTS



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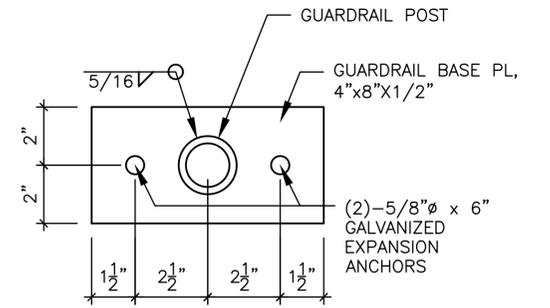
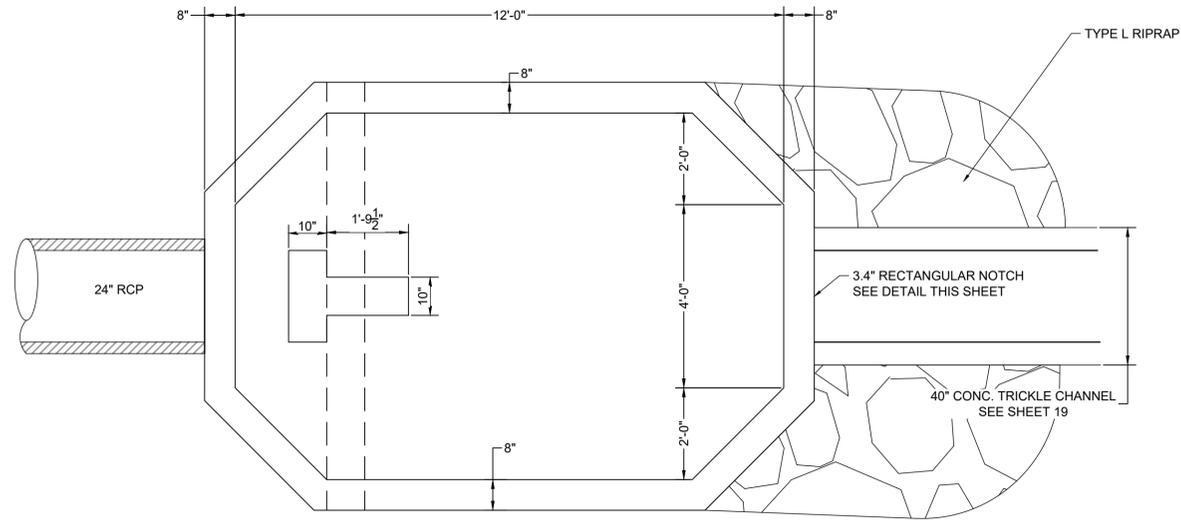
HR GREEN - COLORADO SPRINGS
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 COLORADO SPRINGS CO 80920
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DR. HORTON
 EL PASO COUNTY, COLORADO

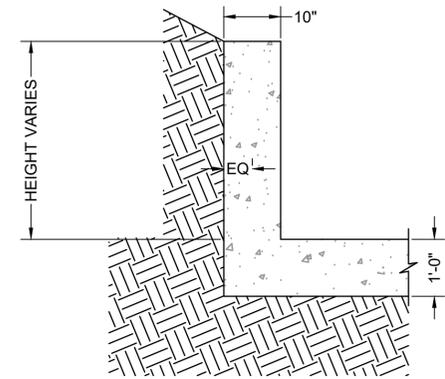


EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 EDB B (PUBLIC) DETAILS

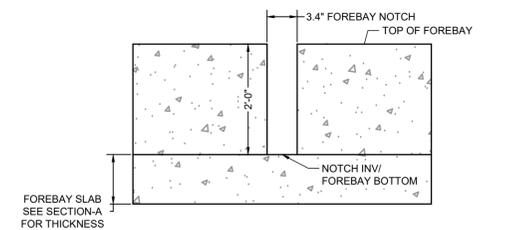
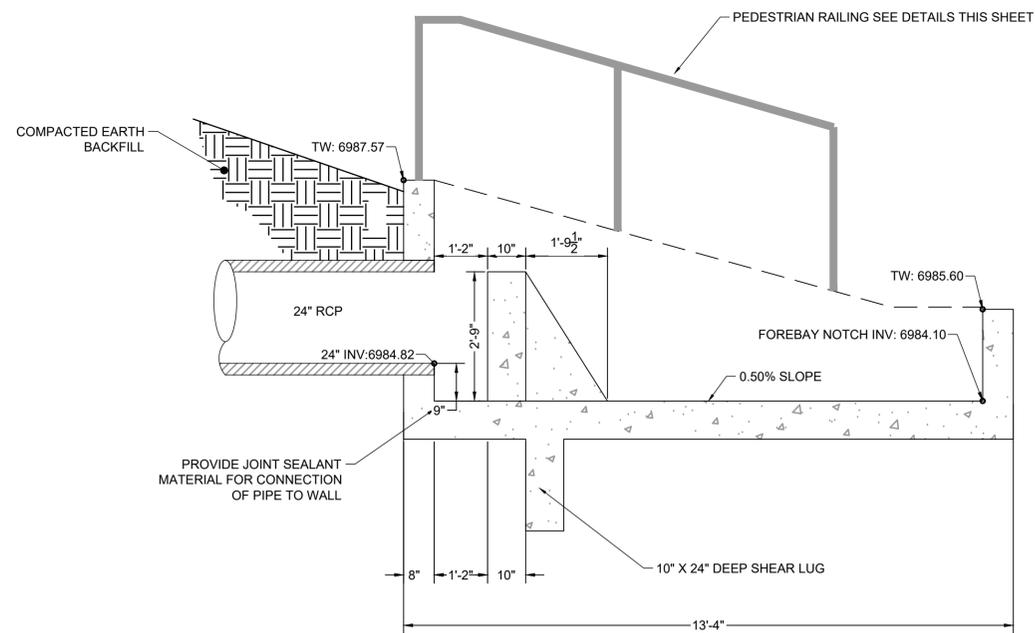
SHEET
PD.5
 19



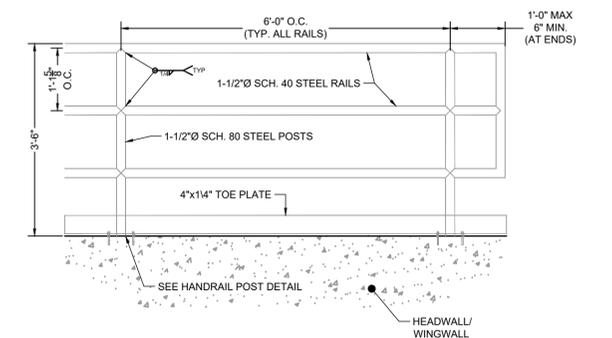
ELEVATION VIEW
HANDRAIL POST DETAIL
SCALE: NTS



ELEVATION VIEW
FOREBAY WINGWALL REINFORCEMENT DETAIL
SCALE: NTS



ELEVATION VIEW
FOREBAY NOTCH DETAIL
SCALE: NTS



ELEVATION VIEW
HANDRAIL POST DETAIL
SCALE: NTS



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CAD DATE: 3/22/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
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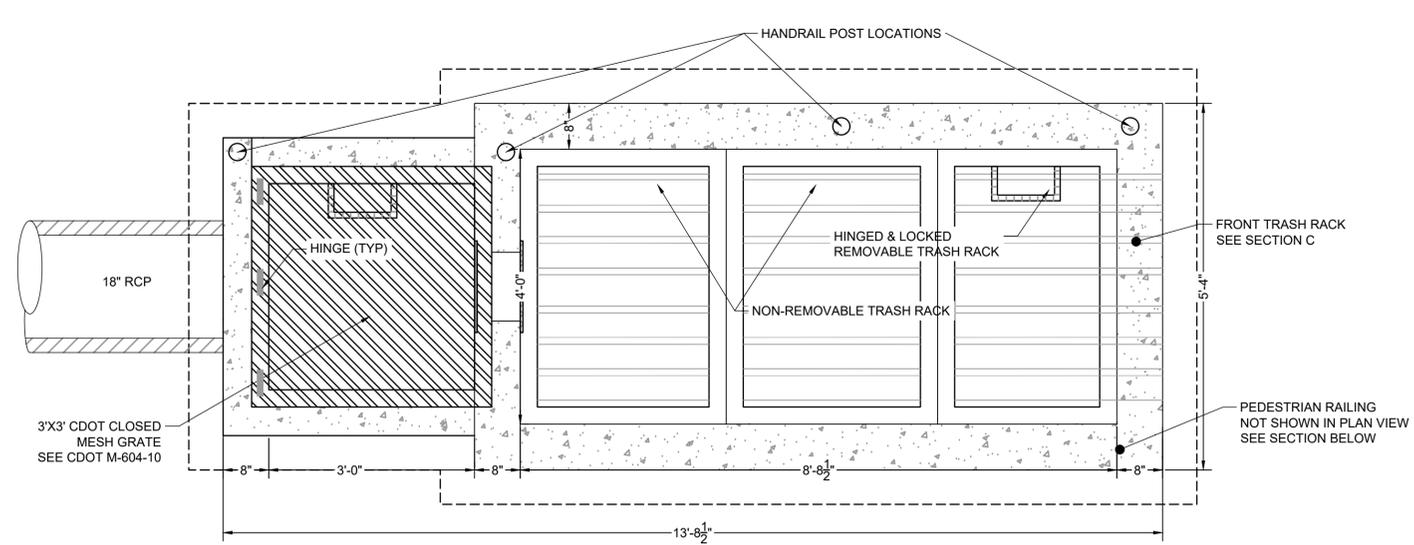
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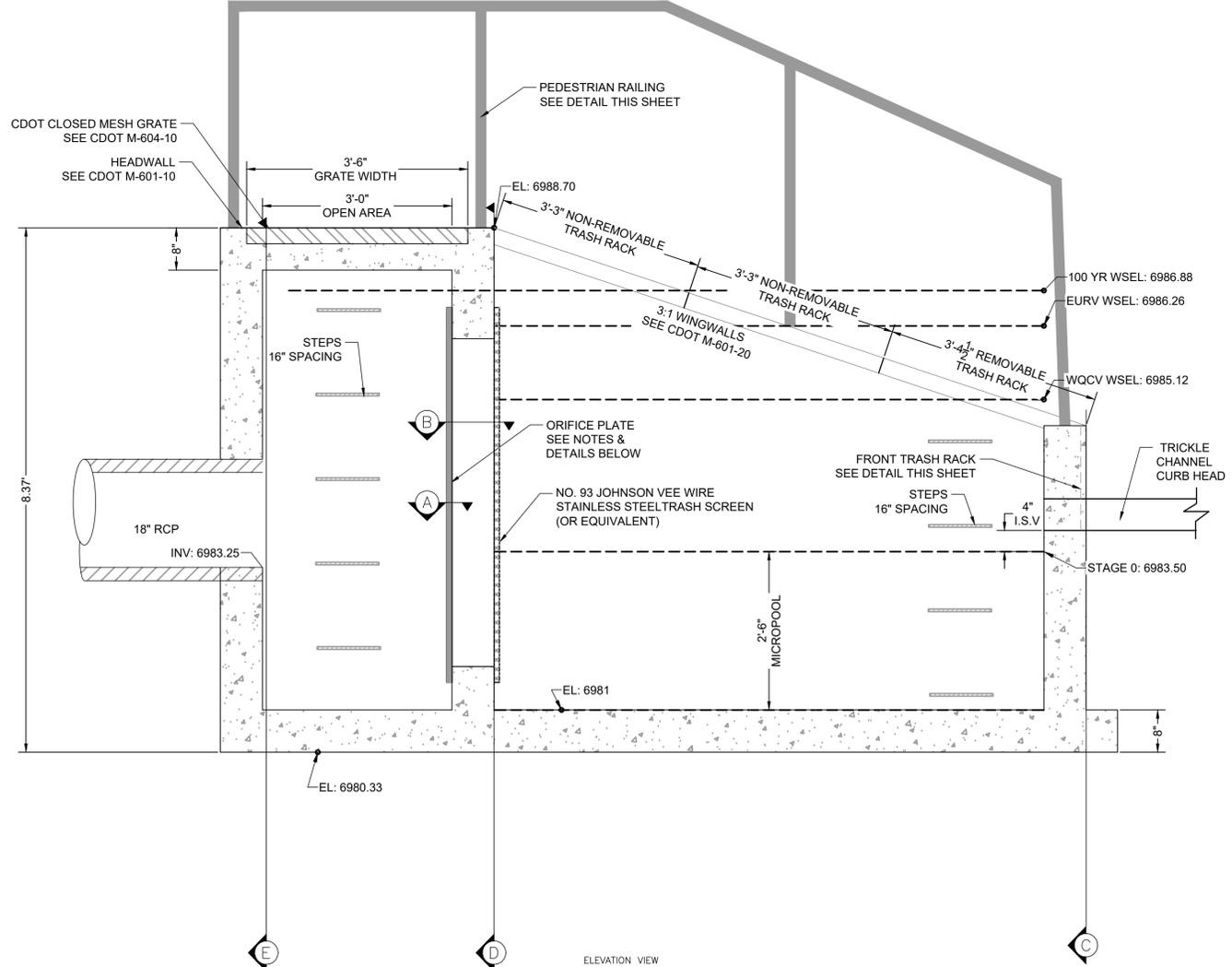
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EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 EDB B (PUBLIC) FOREBAY DETAILS

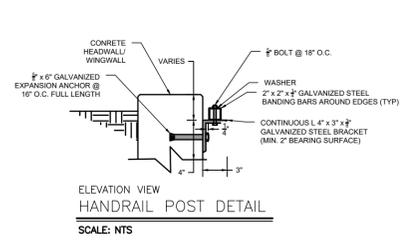
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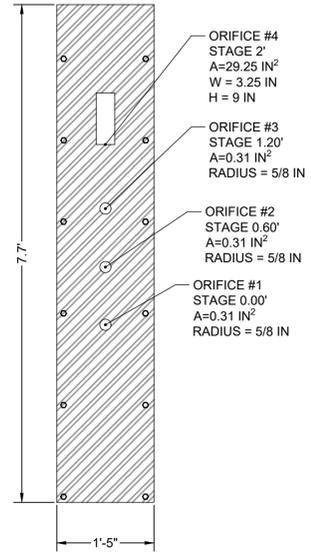
PLAN VIEW
POND OUTLET STRUCTURE PLAN
SCALE: 3/4" = 1'



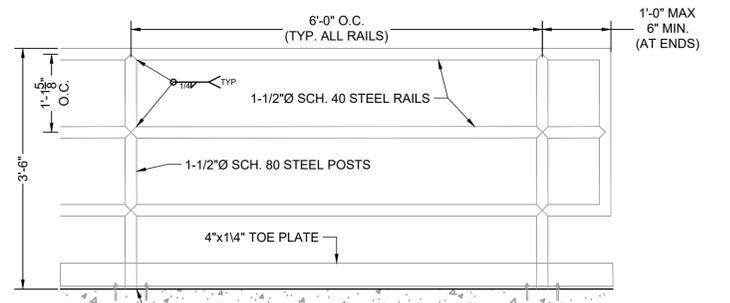
ELEVATION VIEW
POND OUTLET STRUCTURE PROFILE
SCALE: 3/4" = 1'



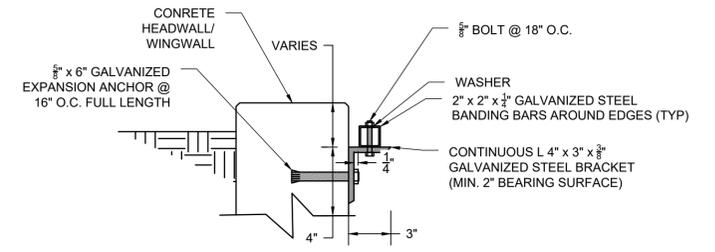
ELEVATION VIEW
HANDRAIL POST DETAIL
SCALE: NTS



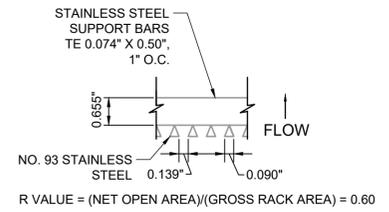
ELEVATION VIEW
ORIFICE PLATE DETAIL
SCALE: 3/4" = 1'



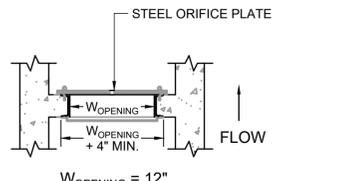
ELEVATION VIEW
PEDESTRIAN RAILING DETAIL
SCALE: 3/4" = 1'



DETAIL VIEW
TRASH RACK CONNECTION TO WALLS
SCALE: NTS



PLAN VIEW
TRASH SCREEN DETAIL
SCALE: 3/4" = 1'



PLAN VIEW
TRASH SCREEN AND PLATE DETAIL
SCALE: 3/4" = 1'

WARNING
THIS AREA IS A STORMWATER FACILITY
AND IS SUBJECT TO PERIODIC FLOODING

POND WARNING SIGN
SCALE: NTS
MINIMUM SIGN AREA = 3 FT²
SIGNS SHALL BE FABRICATED OF DURABLE
MATERIALS, SUCH AS METAL OR PLASTIC, USING
RED LETTERING ON A WHITE BACKGROUND

TWO SIGNS, EACH WITH A MINIMUM AREA OF 3 SQUARE FEET, SHALL BE PROVIDED AROUND THE PERIMETER OF ALL DETENTION FACILITIES. THE SIGNS SHALL BE FABRICATED OF DURABLE MATERIALS, SUCH AS METAL OR PLASTIC, USING RED LETTERING ON A WHITE BACKGROUND WITH THE ABOVE MESSAGE

EDARP FILING NO. 2321



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CAD DATE: 3/22/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:\2020\201662\CAD\Drawings\CIEastonville_Road_662.08\Segment_1\CD\Road_CDs\Outlet_Structure_Details		

NO.	DATE	BY	REVISION DESCRIPTION

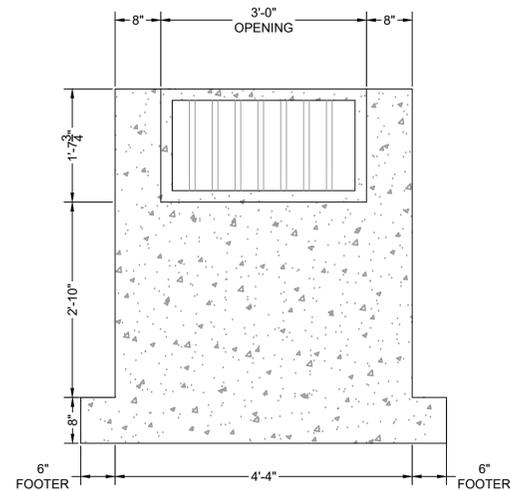
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HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS CO 80920
PHONE: 719.300.4140
FAX: 713.965.0044

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DR. HORTON
EL PASO COUNTY, COLORADO

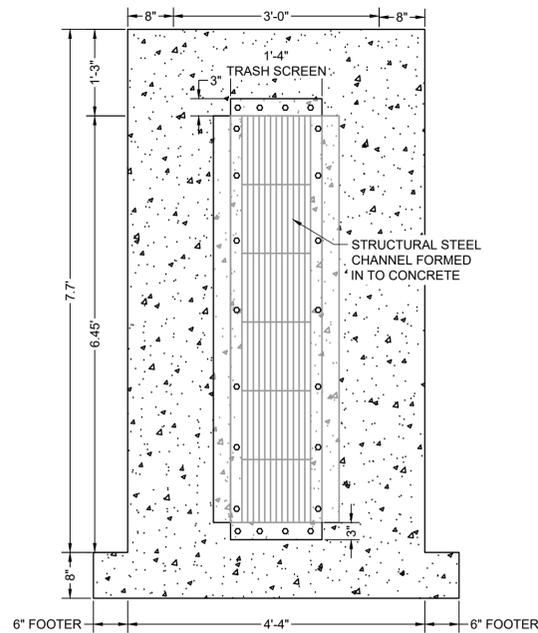
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EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
EDB B (PUBLIC) OUTLET STRUCTURE DETAILS

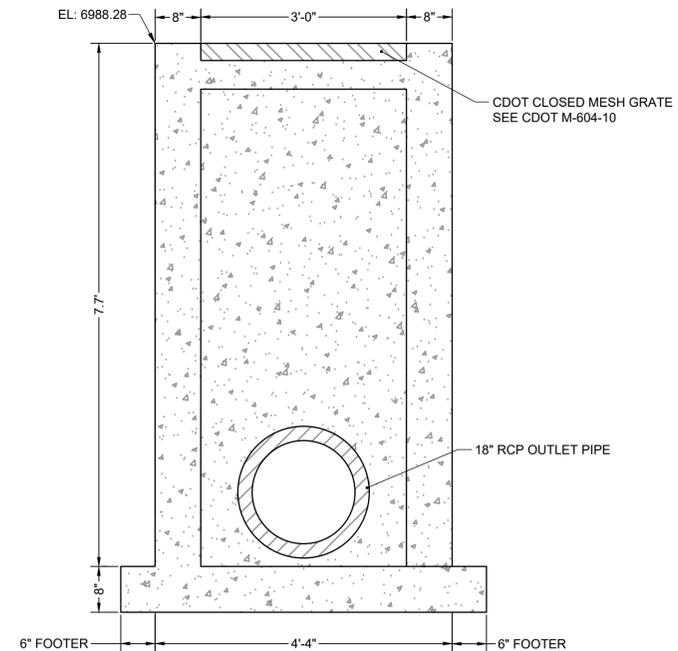
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21



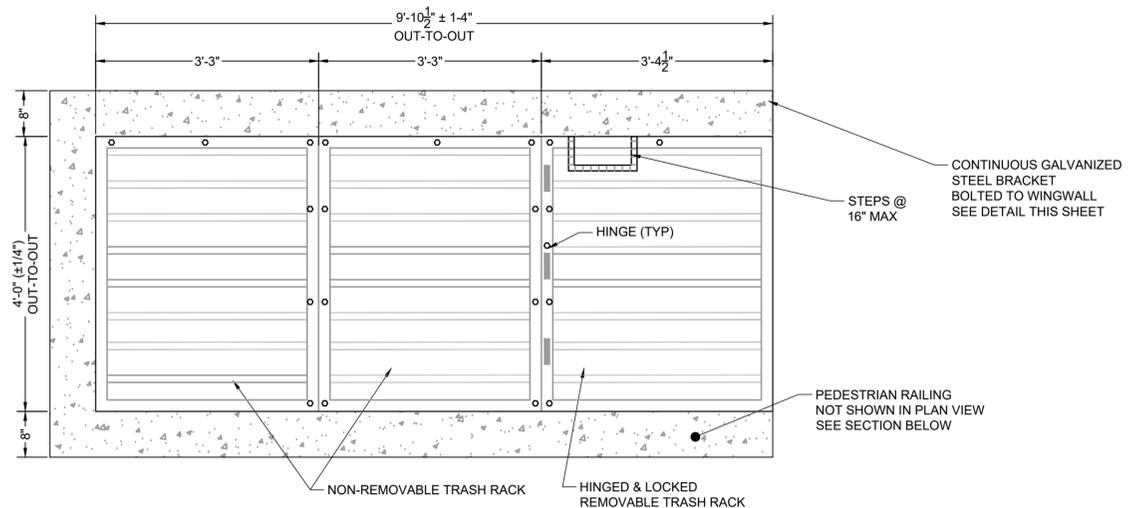
ELEVATION VIEW
FRONT FACE
SCALE: 3/4" = 1'



ELEVATION VIEW
TRASH SCREEN
SCALE: 3/4" = 1'



ELEVATION VIEW
REAR FACE
SCALE: 3/4" = 1'



PLAN VIEW
TRASH RACK DETAIL
SCALE: N.T.S.

ORIFICE PLATE NOTES:

1. PLATE TO BE 3/8" THICK GALVANIZED STEEL..
2. BOLT PLATE TO CONCRETE 16" O.C. MAX.
3. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE

TRASH SCREEN NOTES:

1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

TRASH RACK NOTES:

1. TRASH RACKS SHALL BE 1 1/2" SCH. 40 STEEL PIPE, GALVANIZED, @ 6" CENTERS. SUPPORT BARS SHALL BE 1/2" x 2" STEEL RECTANGULAR BARS, GALVANIZED, @ 36". ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE.
2. REMOVABLE TRASH RACK SECTIONS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED & LOCKABLE OR BOLTABLE ACCESS PANELS AS SHOWN ON THE PLANS.
3. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
4. STRUCTURAL STEEL FOR GRATES, ORIFICE PLATES, AND BARS SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS, SUBSECTION 712.06.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PLATES AND GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

RESTRICTOR PLATE NOTES:

1. 3/8" THICK RESTRICTOR PLATE, GALVANIZED STEEL.
2. BOLT PLATE TO CONCRETE @ 12" O.C. MAX.
3. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN PLATE AND CONCRETE



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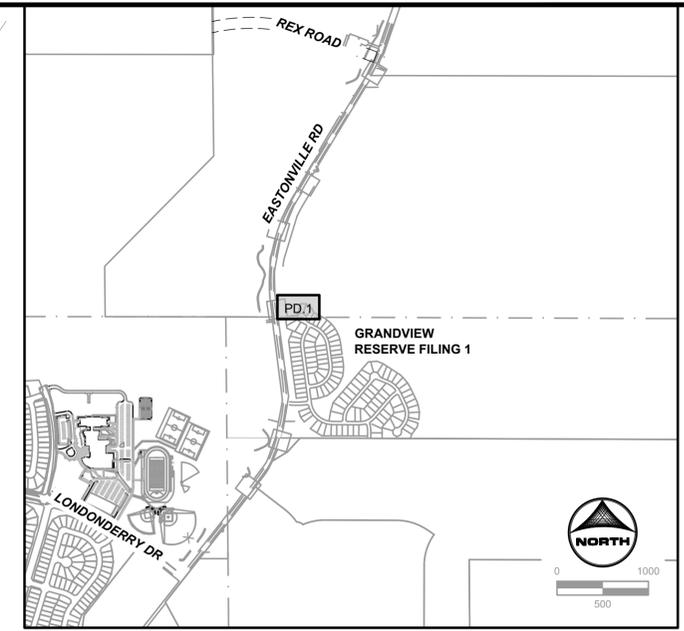
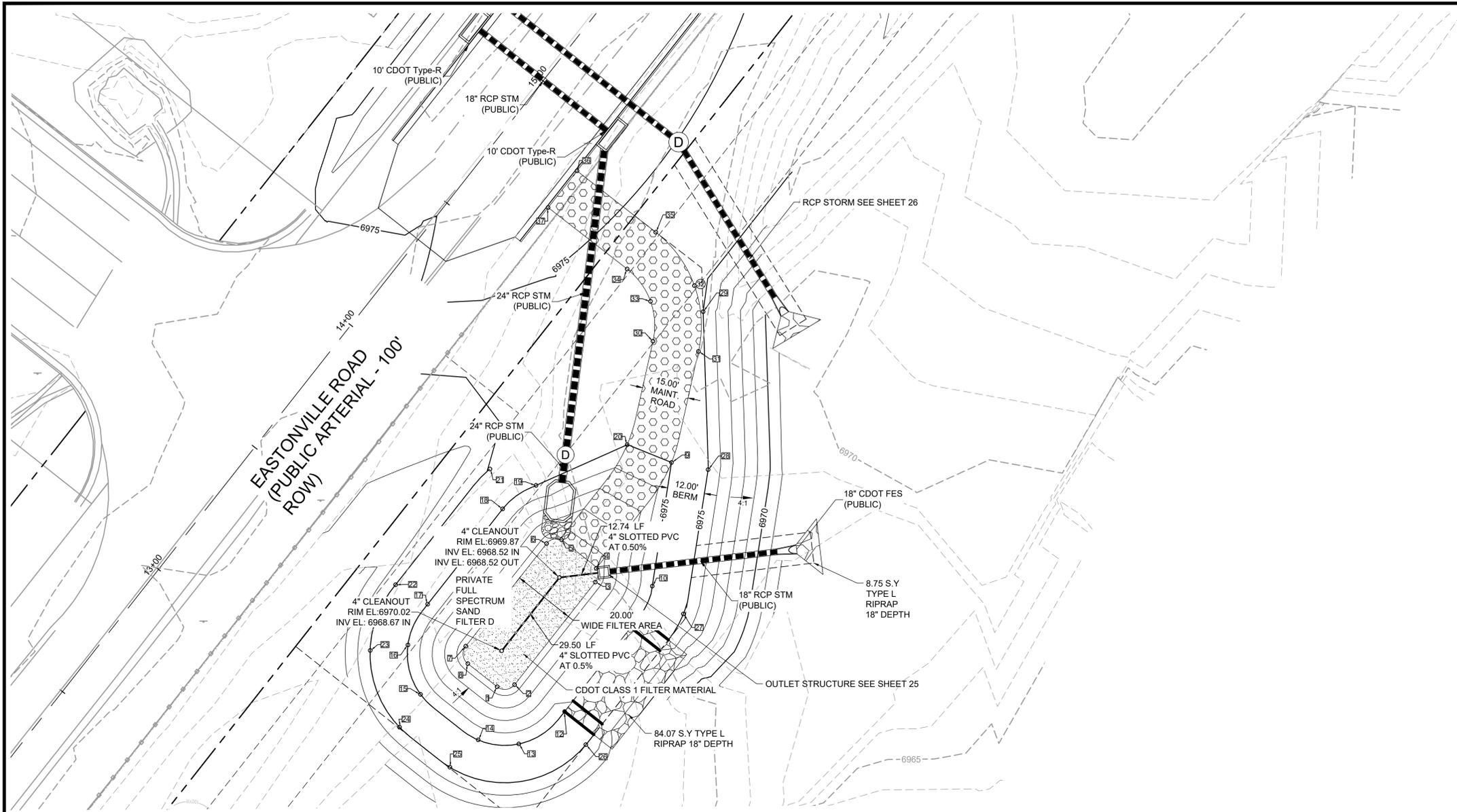
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EASTONVILLE ROAD IMPROVEMENTS
DR. HORTON
 EL PASO COUNTY, COLORADO



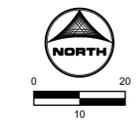
EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 EDB B (PUBLIC) OUTLET STRUCTURE DETAILS

SHEET
PD.8
22



KEYMAP

- GRADING NOTES:**
1. ALL PROPOSED CONTOURS ARE TO FINISHED GRADE.
 2. EARTHEN CUT AND FILL SLOPES SHALL BE 3:1 MAXIMUM. SLOPES IN EXCESS OF 4:1 AND AREAS OTHERWISE INDICATED BY WITHIN THESE PLANS, SHALL BE COVERED WITH SOIL RETENTION BLANKET OVER 4" MIN. THICKNESS OF TOPSOIL AND SEEDED.
 3. IF THE PROJECT IS CONSTRUCTED DURING THE SUMMER WHEN SEEDING IS NOT ALLOWED, APPLY 1-1/2 TONS OF CERTIFIED WEED FREE MULCH PER ACRE MECHANICALLY CRIMPED INTO THE SOIL IN COMBINATION WITH AN ORGANIC MULCH TACKIFIER.
 4. PRIOR TO ANY CONSTRUCTION ACTIVITIES THE PROPOSED SILT FENCE SHOWN ON THE EROSION CONTROL SHEET SHALL BE CONSTRUCTED. THE FENCE SHALL BE REMOVED UPON THE LATER OF STABILIZATION OF THE SITE OR COMPLETION OF CONSTRUCTION.
 5. TO REDUCE THE POTENTIAL FOR CLOGGING OF DEBRIS GRATES, NO STRAW MULCH SHALL BE USED WITHIN THE EURV OR WQCV OF A DETENTION BASIN. INSTEAD, EROSION CONTROL BLANKETS SHALL BE INSTALLED FOR A WIDTH OF AT LEAST 6 FEET ON EITHER SIDE OF CONCRETE LOW-FLOW CHANNELS. THE BLANKETS SHALL COMPLY WITH THE MATERIALS AND INSTALLATION REQUIREMENTS FOR EROSION CONTROL BLANKETS (STRAW COCONUT OR 100 PERCENT COCONUT.) SITE-SPECIFIC CONDITIONS MAY REQUIRE ADDITIONAL BLANKET OR OTHER EROSION CONTROL MEASURES.



POINT TABLE				POINT TABLE				POINT TABLE				POINT TABLE			
No.	DESC.	NORTHING & EASTING	ELEV.	No.	DESC.	NORTHING & EASTING	ELEV.	No.	DESC.	NORTHING & EASTING	ELEV.	No.	DESC.	NORTHING & EASTING	ELEV.
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2	BOP	N: 1417602.37 E: 3263839.77	6970.50	14	TOP	N: 1417584.63 E: 3263828.06	6975.00	26	TOP	N: 1417583.10 E: 3263862.71	6975.00				
3	BOP	N: 1417635.35 E: 3263865.77	6970.50	15	TOP	N: 1417599.26 E: 3263809.47	6975.00	27	TOP	N: 1417625.13 E: 3263894.15	6975.00				
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5	END MAINT. RD	N: 1417648.95 E: 3263854.91	6970.51	17	TOP	N: 1417628.26 E: 3263811.79	6975.00	29	TOP	N: 1417722.28 E: 3263900.50	6975.00				
6	BOP	N: 1417647.74 E: 3263850.07	6970.50	18	TOP	N: 1417658.88 E: 3263835.93	6975.00	30	MAINT. RD	N: 1417712.79 E: 3263884.36	6975.37				
7	BOP	N: 1417614.76 E: 3263824.06	6970.50	19	TOP	N: 1417666.44 E: 3263846.69	6975.00	31	MAINT. RD	N: 1417709.50 E: 3263899.00	6975.13				
8	BOP	N: 1417609.14 E: 3263824.73	6970.50	20	MAINT. RD	N: 1417679.52 E: 3263876.06	6975.00	32	MAINT. RD	N: 1417730.67 E: 3263897.69	6975.19				
9	MAINT. RD	N: 1417673.79 E: 3263890.32	6975.00	21	TOP	N: 1417671.71 E: 3263831.84	6975.04	33	MAINT. RD	N: 1417725.60 E: 3263883.57	6975.49				
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11	TOP	N: 1417624.21 E: 3263879.91	6975.00	23	TOP	N: 1417613.39 E: 3263793.27	6975.00	35	MAINT. RD	N: 1417747.83 E: 3263885.24	6975.11				
12	TOP	N: 1417593.74 E: 3263855.88	6975.00	24	TOP	N: 1417588.70 E: 3263802.71	6974.99	36	BEGIN MAINT. RD	N: 1417767.55 E: 3263859.86	6974.62				

ABBREVIATIONS
 TC = TRICKLE CHANNEL
 BP/BOP = BOTTOM OF POND
 TOP = TOP OF POND
 SW = SPILLWAY

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 COLORADO SPRINGS CO 80920
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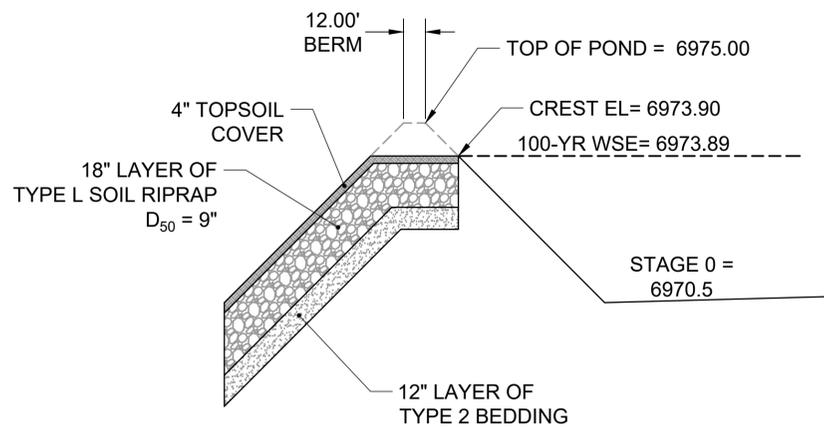
EASTONVILLE ROAD IMPROVEMENTS
DR. HORTON
 EL PASO COUNTY, COLORADO
D-R HORTON
America's Builder

EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 SFB D (PUBLIC) POND GRADING PLAN

SHEET
PD.9
23

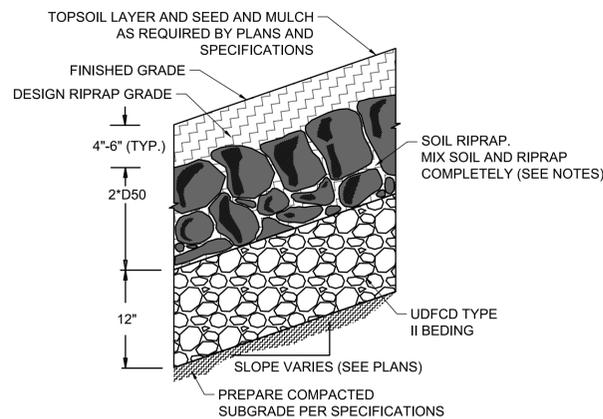


EDARP FILING NO. 2321



**PROFILE VIEW –
EMERGENCY OVERFLOW SPILLWAY**

SCALE: NTS



**SOIL RIPRAP EMBANKMENT PROTECTION
WITH BEDDING TYP. SECTION**
N.T.S

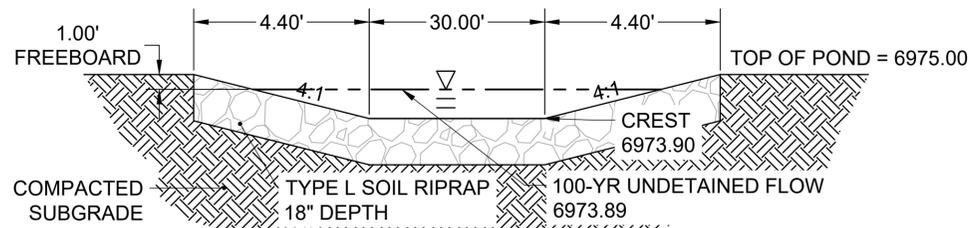
TYPE L RIPRAP

INTERMEDIATE ROCK DIMENSION (IN .)	PERCENT PASSING (%)
15	70-100
12	50-70
9	35-50
3	2-10

*TYPE L RIPRAP D50=9"
D50=MEAN PARTICLE SIZE
(INTERMEDIATE DIMENSION) BY WEIGHT

RIPRAP NOTES.

1. SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS REFER TO THE SITE PLAN ACTUAL LOCATION AND LIMITS.
2. MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.
3. PLACE STONE-SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE.
4. CRIMP OR TACKIFY MULCH OR USE APPROVED HYDROMULCH AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.
5. ROCK SHALL BE HARD, DURABLE, ANGULAR IN SHAPE, AND FREE FROM CRACKS, OVERBURDEN, SHALE, AND ORGANIC MATTER.
6. NEITHER BREADTH NOR THICKNESS OF A SINGLE STONE SHOULD BE LESS THAN ONE-THIRD ITS LENGTH, AND ROUNDED STONE SHOULD BE AVOIDED.
7. THE ROCK SHOULD SUSTAIN A LOSS OF NOT MORE THAN 40% AFTER 500 REVOLUTIONS IN AN ABRASION TEST (LOS ANGELES MACHINE ASTM C-535-69) AND SHOULD SUSTAIN A LOSS OF NOT MORE THAN 10% AFTER 12 CYCLES OF FREEZING AND THAWING (AASHTO TEST 103 FOR LEDGE ROCK PROCEDURE A).
8. ROCK HAVING A MINIMUM SPECIFIC GRAVITY OF 2.65 IS PREFERRED; HOWEVER, IN NO CASE SHOULD ROCK HAVE A SPECIFIC GRAVITY LESS THAN 2.50.



**SECTION VIEW –
EMERGENCY SPILLWAY**

SCALE: NTS



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BAR IS ONE INCH ON
OFFICIAL DRAWINGS.
0 1"

IF NOT ONE INCH,
ADJUST SCALE ACCORDINGLY.

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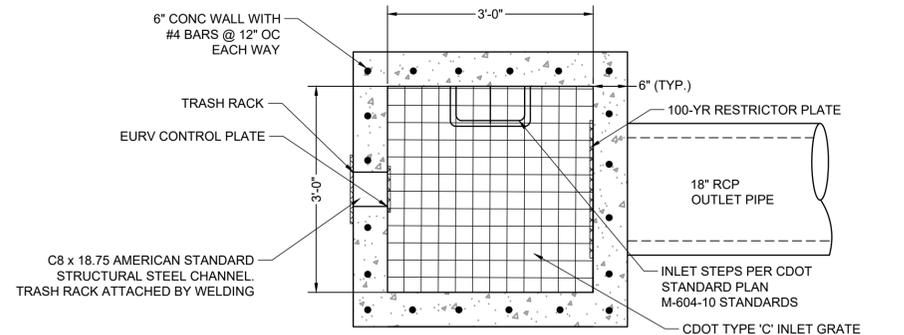
HRGreen
 HR GREEN - COLORADO SPRINGS
 1975 RESEARCH PARKWAY SUITE 230
 COLORADO SPRINGS CO 80920
 PHONE: 719.300.4140
 FAX: 713.965.0044

EASTONVILLE ROAD IMPROVEMENTS
DR. HORTON
 EL PASO COUNTY, COLORADO

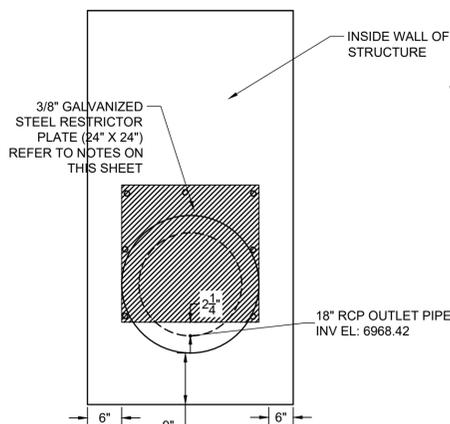


EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 SFB D (PUBLIC) POND DETAILS

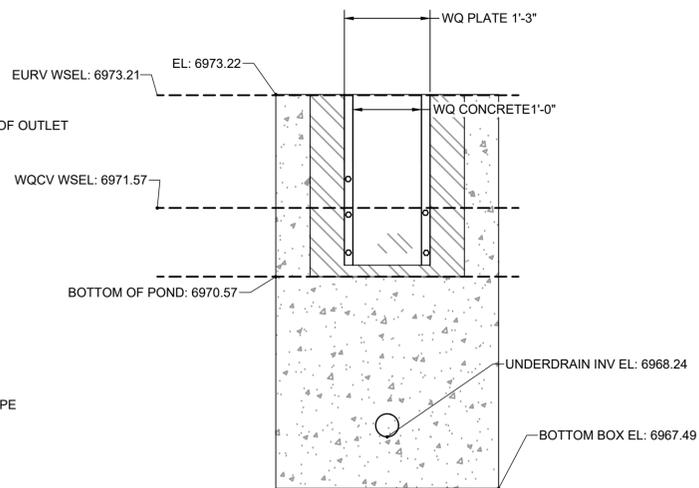
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PLAN VIEW
SAND FILTER OUTLET STRUCTURE PLAN
SCALE: 3/4" = 1"



ELEVATION VIEW
RESTRICTOR PLATE DETAIL
SCALE: NTS



ELEVATION VIEW
UNDERDRAIN PIPE ORIFICE PLATE
SCALE: 3/4" = 1"

ORIFICE PLATE NOTES:

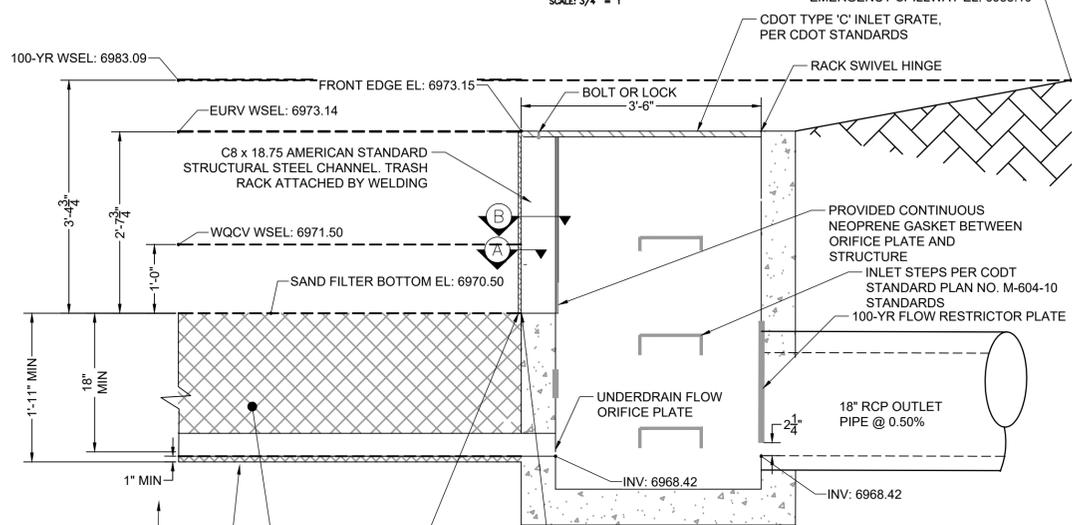
1. PLATE TO BE 3/8" THICK GALVANIZED STEEL.
2. BOLT PLATE TO CONCRETE 16" O.C. MAX.
3. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE

TRASH SCREEN NOTES:

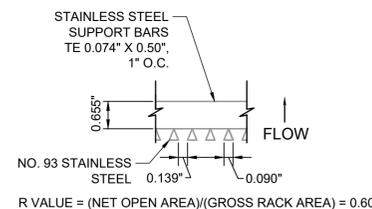
1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

RESTRICTOR PLATE NOTES:

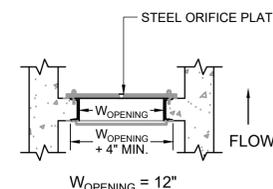
1. 3/8" THICK RESTRICTOR PLATE, GALVANIZED STEEL.
2. BOLT PLATE TO CONCRETE @ 12" O.C. MAX
3. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN PLATE AND CONCRETE
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PLATES AND GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.



ELEVATION VIEW
SAND FILTER OUTLET STRUCTURE PROFILE
SCALE: 3/4" = 1"



PLAN VIEW
TRASH SCREEN DETAIL
SCALE: 3/4" = 1"



PLAN VIEW
TRASH SCREEN AND PLATE DETAIL
SCALE: 3/4" = 1"

WARNING
THIS AREA IS A STORMWATER FACILITY
AND IS SUBJECT TO PERIODIC FLOODING

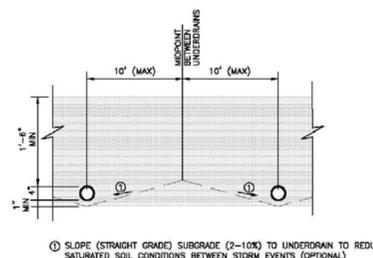
POND WARNING SIGN
SCALE: NTS
MINIMUM SIGN AREA = 3 FT²
SIGNS SHALL BE FABRICATED OF DURABLE MATERIALS, SUCH AS METAL OR PLASTIC, USING RED LETTERING ON A WHITE BACKGROUND

TWO SIGNS, EACH WITH A MINIMUM AREA OF 3 SQUARE FEET, SHALL BE PROVIDED AROUND THE PERIMETER OF ALL DETENTION FACILITIES. THE SIGNS SHALL BE FABRICATED OF DURABLE MATERIALS, SUCH AS METAL OR PLASTIC, USING RED LETTERING ON A WHITE BACKGROUND WITH THE ABOVE MESSAGE

Table SF-2. Dimensions for Slotted Pipe¹

Pipe Size	Slot Length	Maximum Slot Width	Slot Centers	Open Area (per foot)
4"	1-1/16"	0.032"	0.413"	1.90 in ²
6"	1-3/8"	0.032"	0.516"	1.98 in ²

¹ Pipe must conform to requirements of ASTM designation F949. There shall be no evidence of splitting, cracking, or breaking when the pipe is tested per ASTM test method D2412 in accordance with F949 section 7.5 and ASTM F794 section 8.5. Contech A-2000 slotted pipe (or equal).

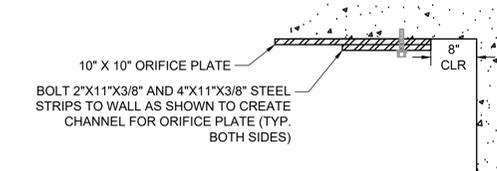


THIS DIMENSION VARIES BASED ON UNDERDRAIN SLOPE. MAINTAIN 1" MINIMUM FILTER MATERIAL BELOW PIPE

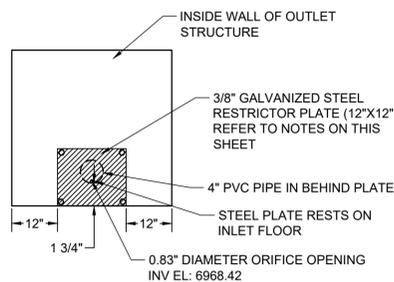


WELL SCREEN FRAME ATTACHED TO CHANNEL BY INTERMITTENT WELDS

CLASS C FILTER MATERIAL (SOURCE: CDOT TABLE 703-7)	
SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
10 mm (3/4")	100
4.75 mm (No. 4)	60 - 100
300 um (No. 50)	10 - 30
150 um (No. 100)	0 - 10
75 um (No. 200)	0 - 3



ELEVATION VIEW
UNDERDRAIN PIPE ORIFICE PLATE
SCALE: NTS



ELEVATION VIEW
UNDERDRAIN PIPE ORIFICE PLATE
SCALE: NTS

HR GREEN Xref: xref-1-dh01_CD_Road_PNP

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EL PASO COUNTY, COLORADO

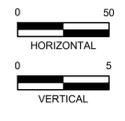
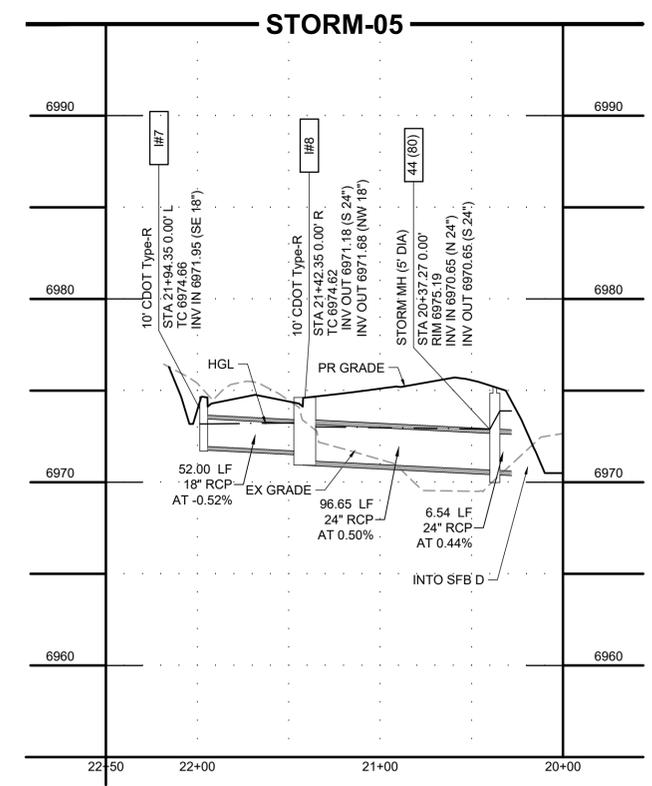
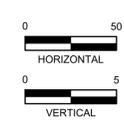
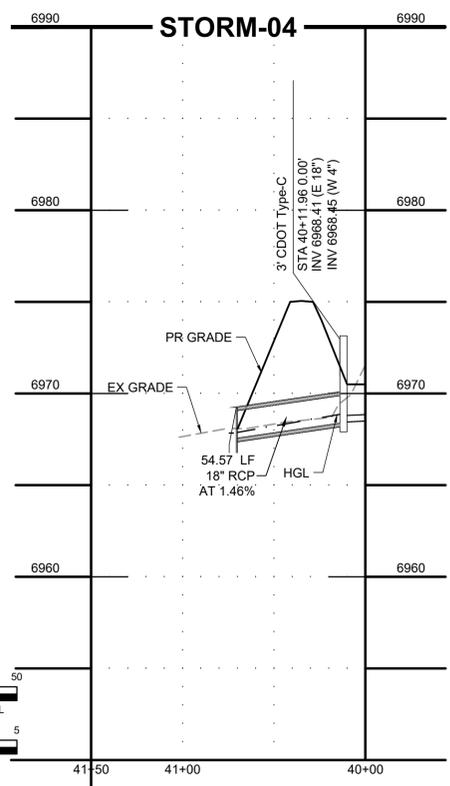
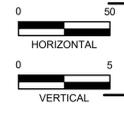
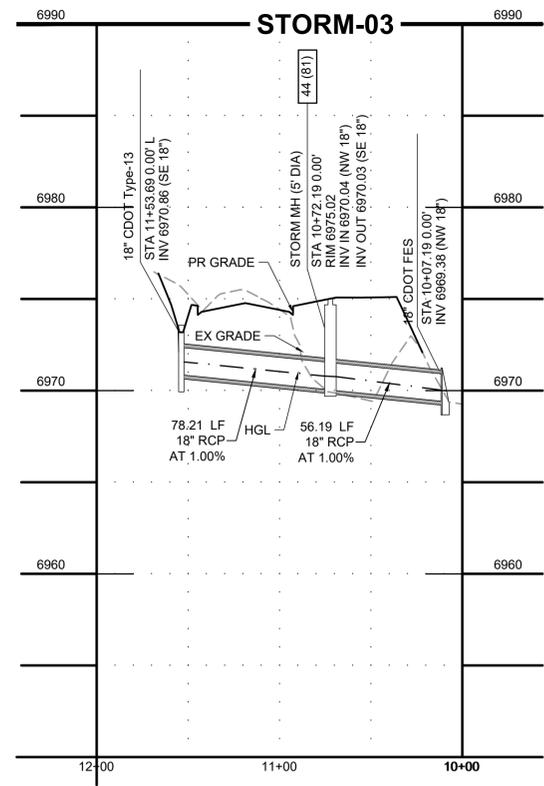
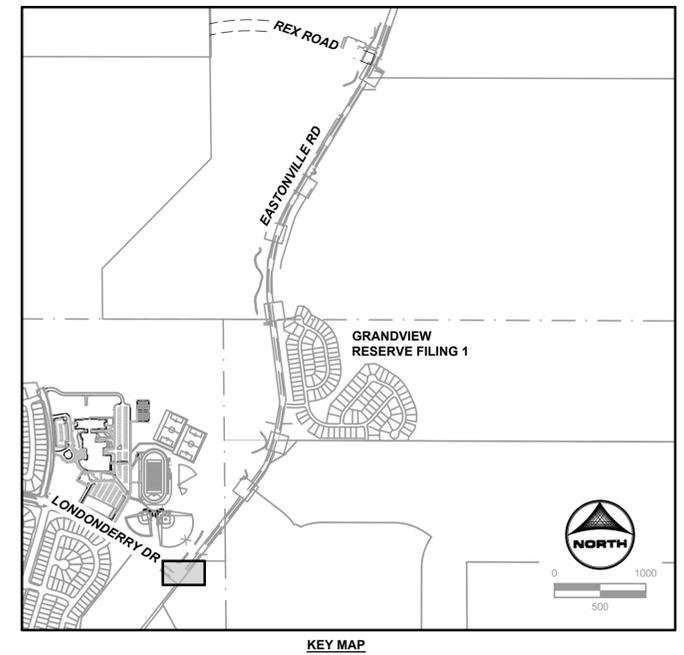
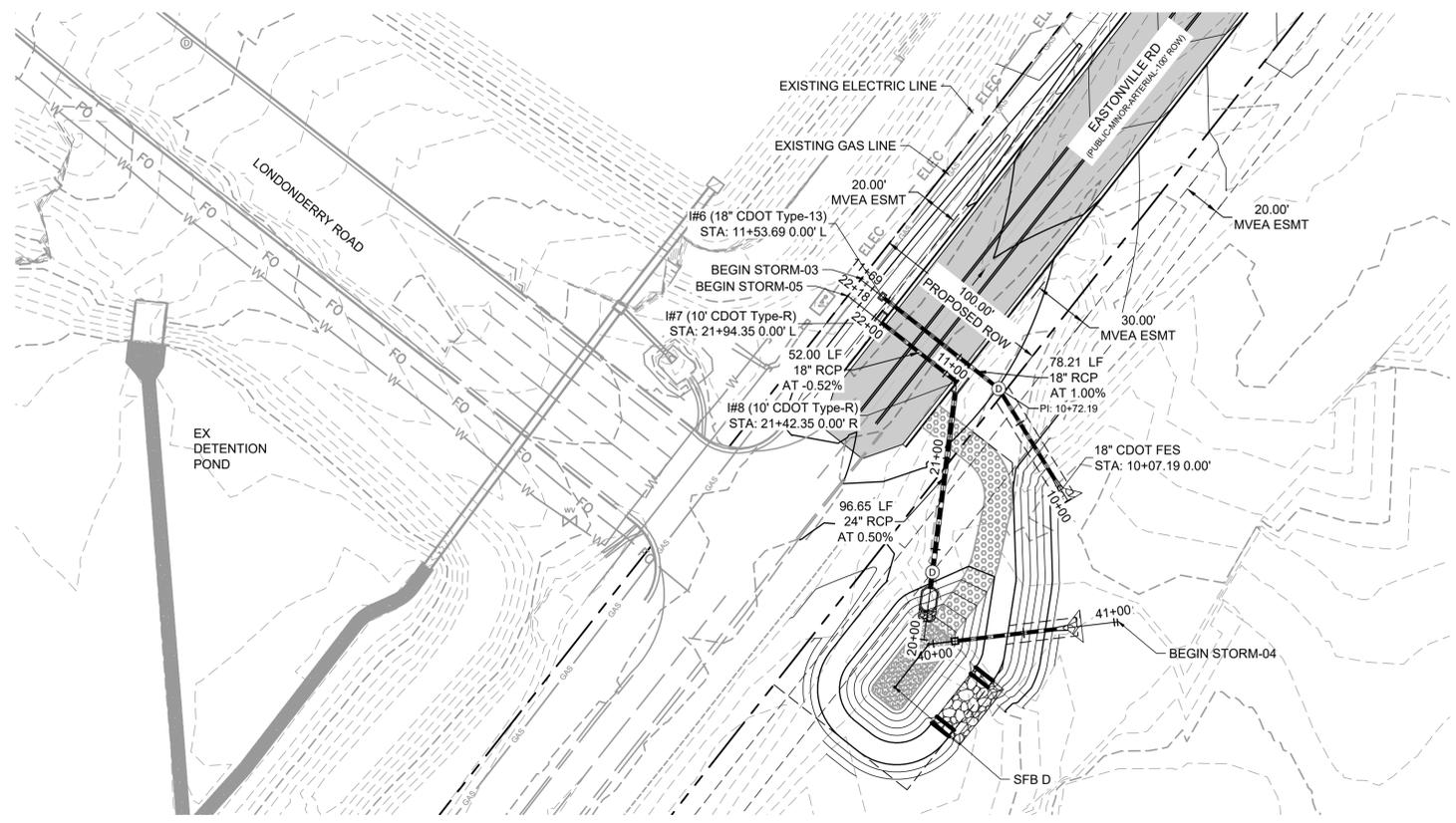
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SFB D (PUBLIC) OUTLET STRUCTURE

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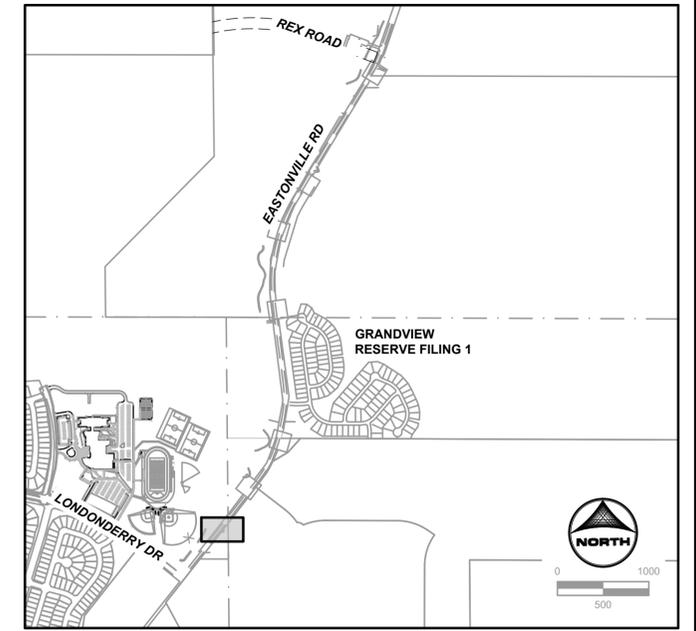
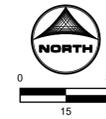
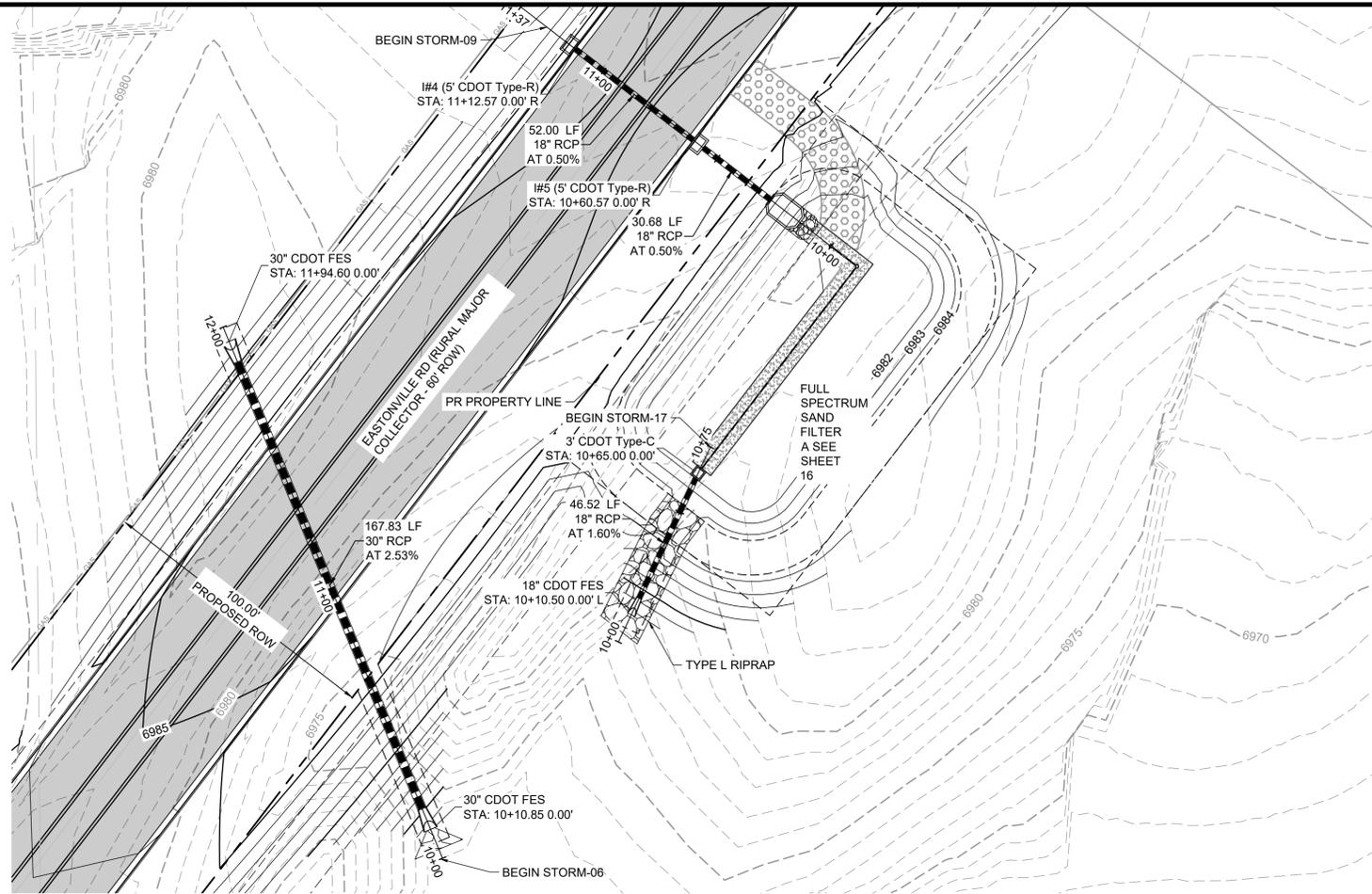
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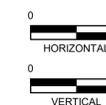
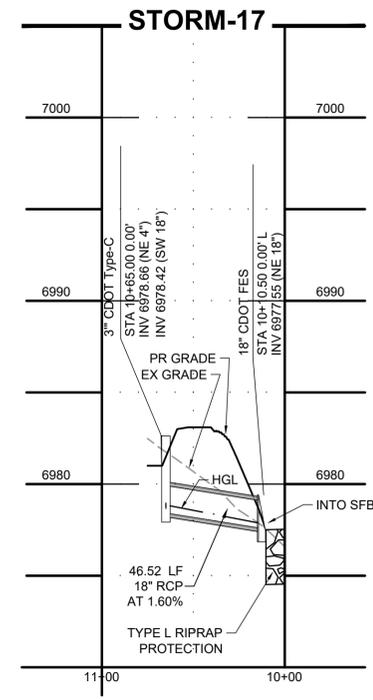
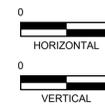
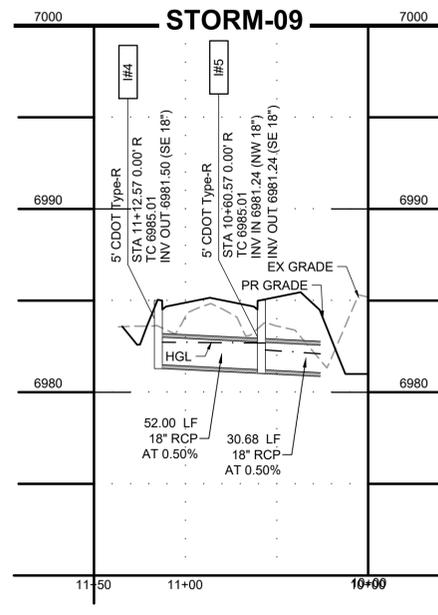
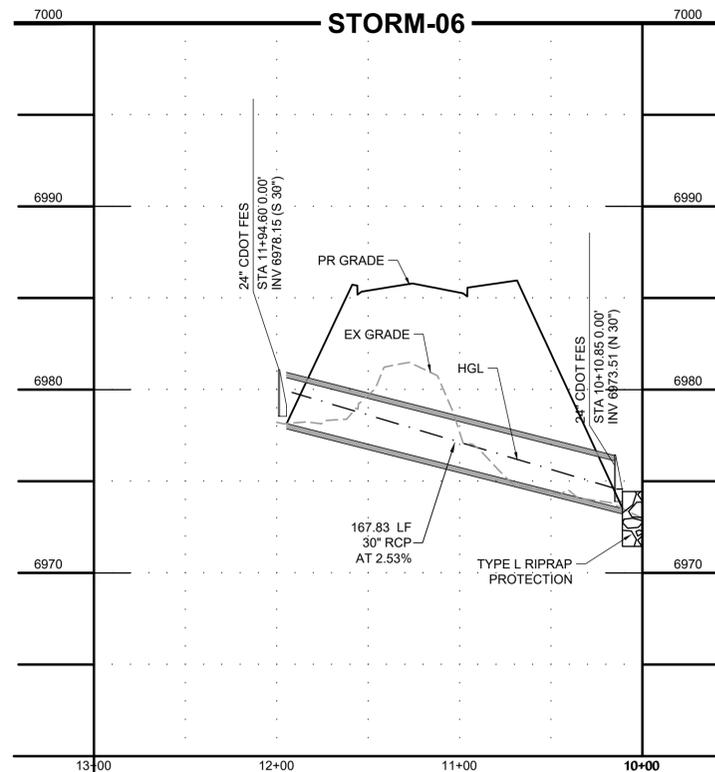
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STORM PLAN & PROFILE
 STORM PLAN & PROFILE

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KEY MAP



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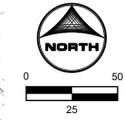
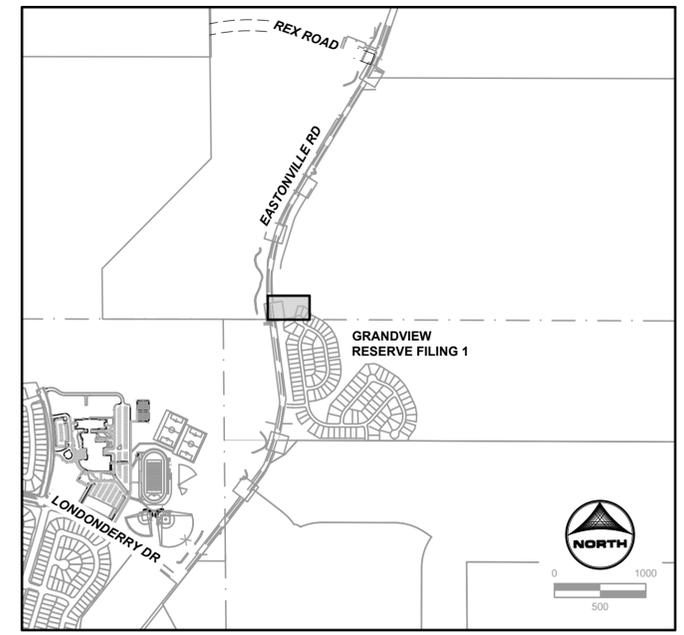
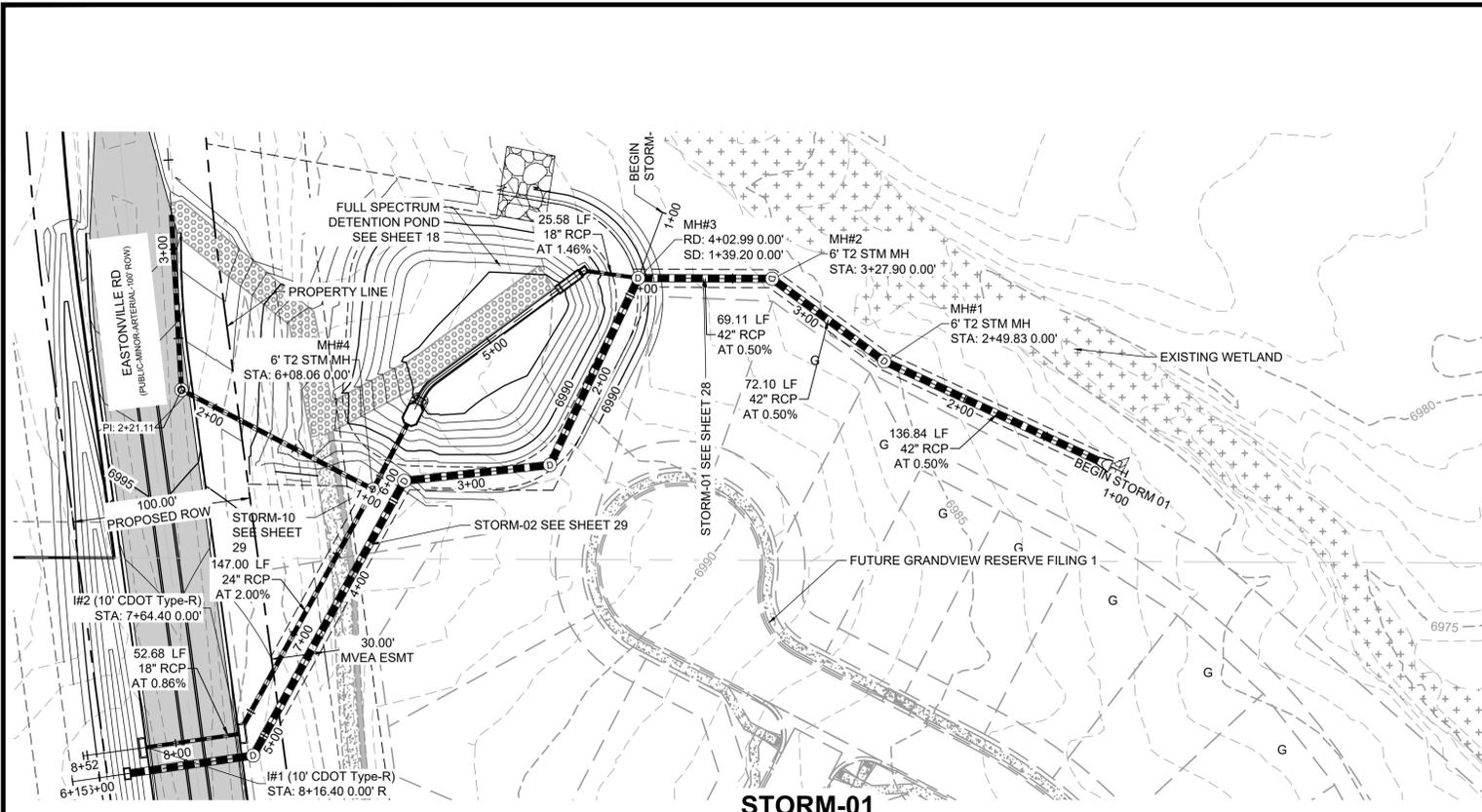
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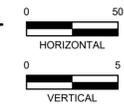
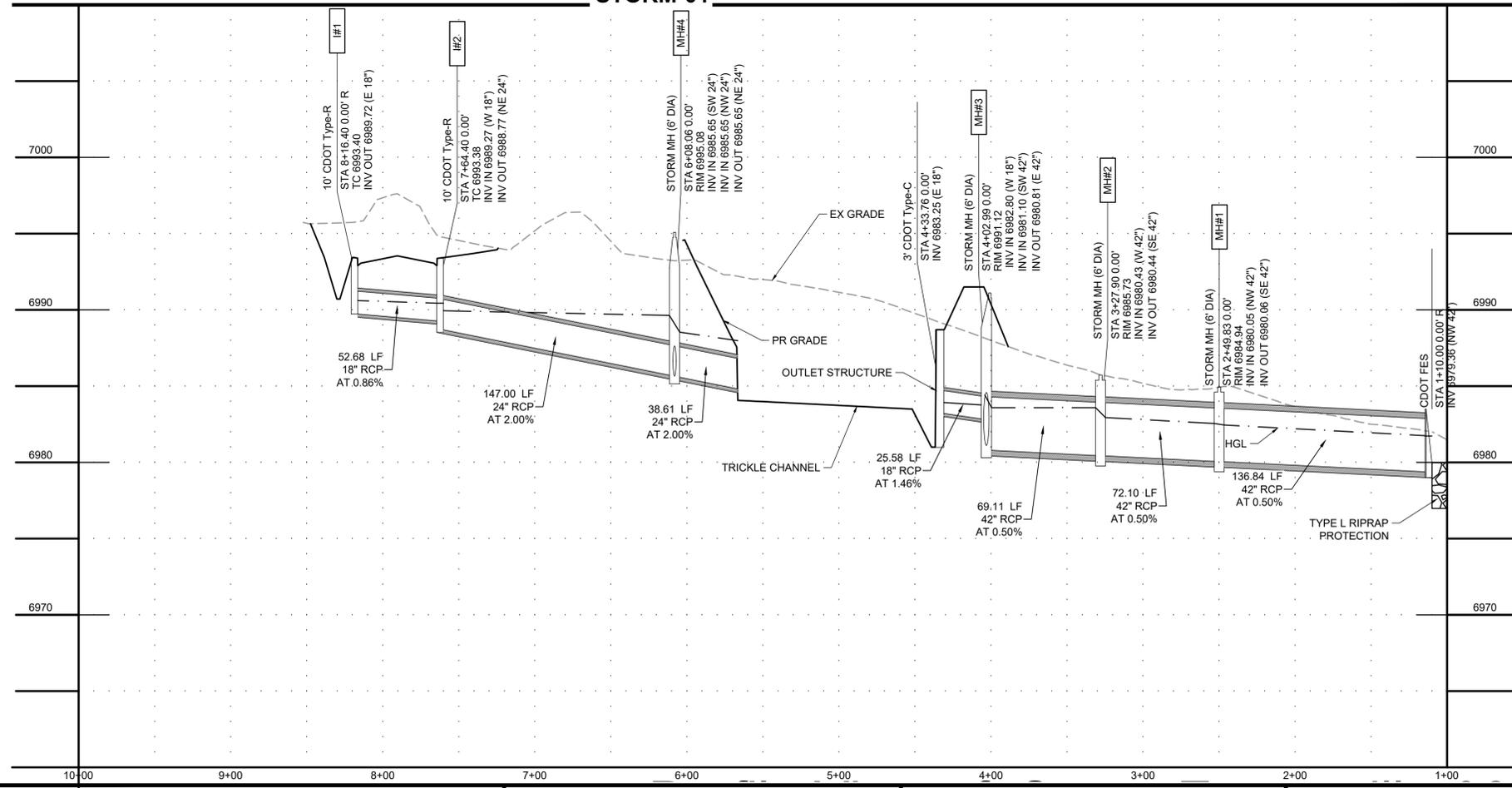


STORM PLAN & PROFILE
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STORM-01



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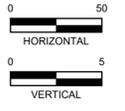
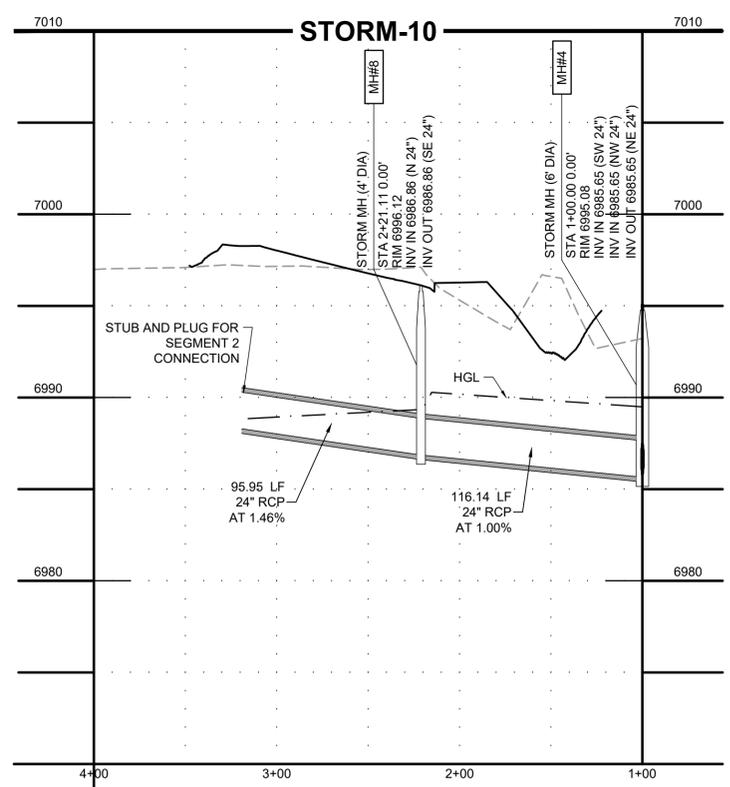
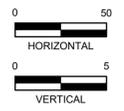
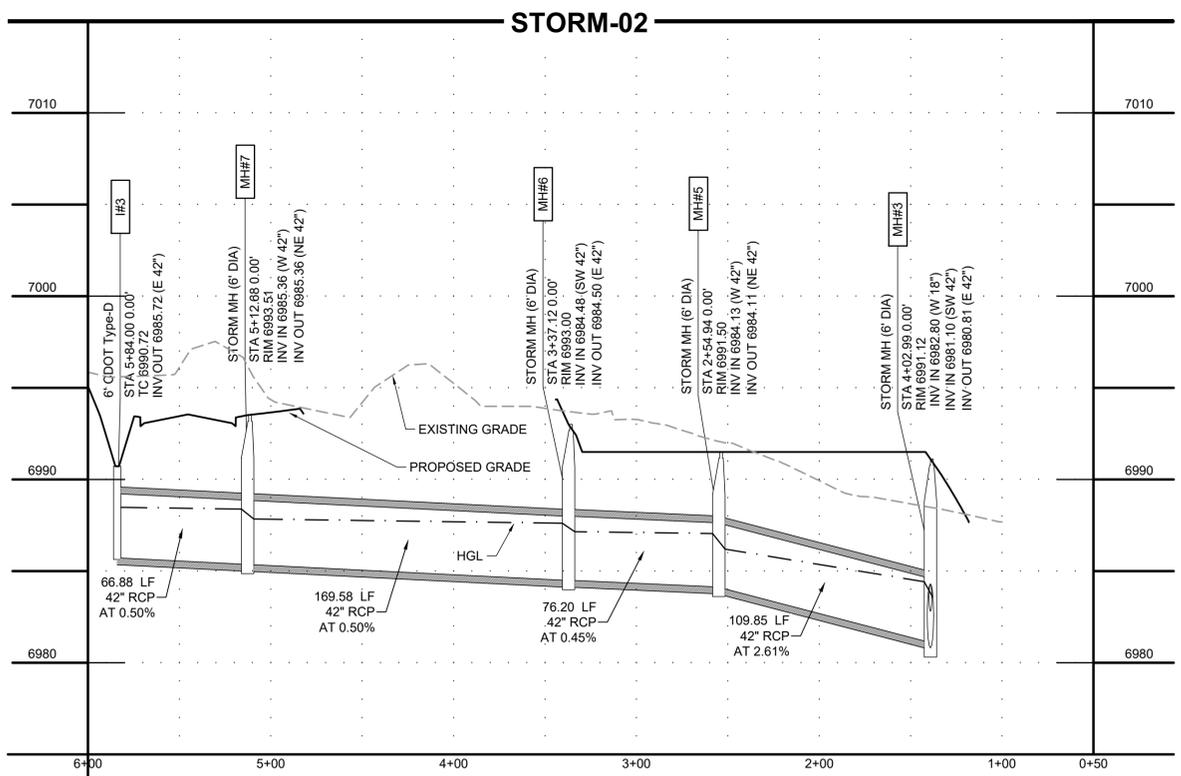
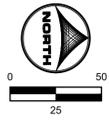
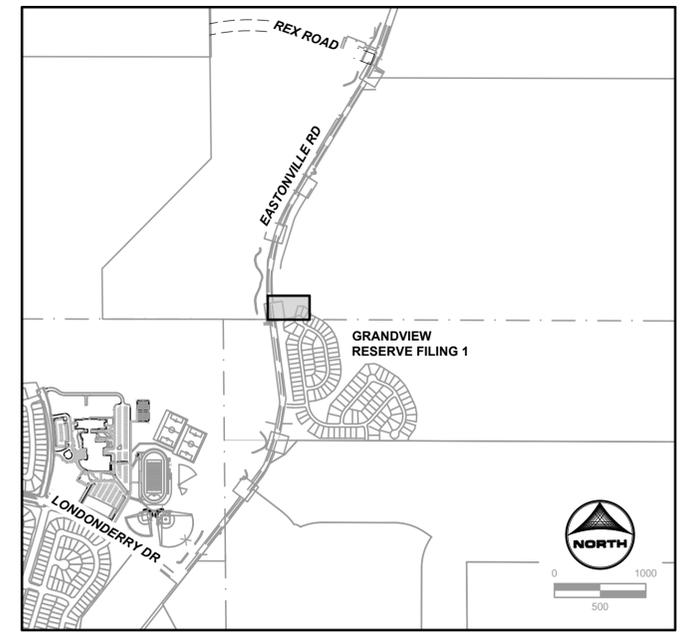
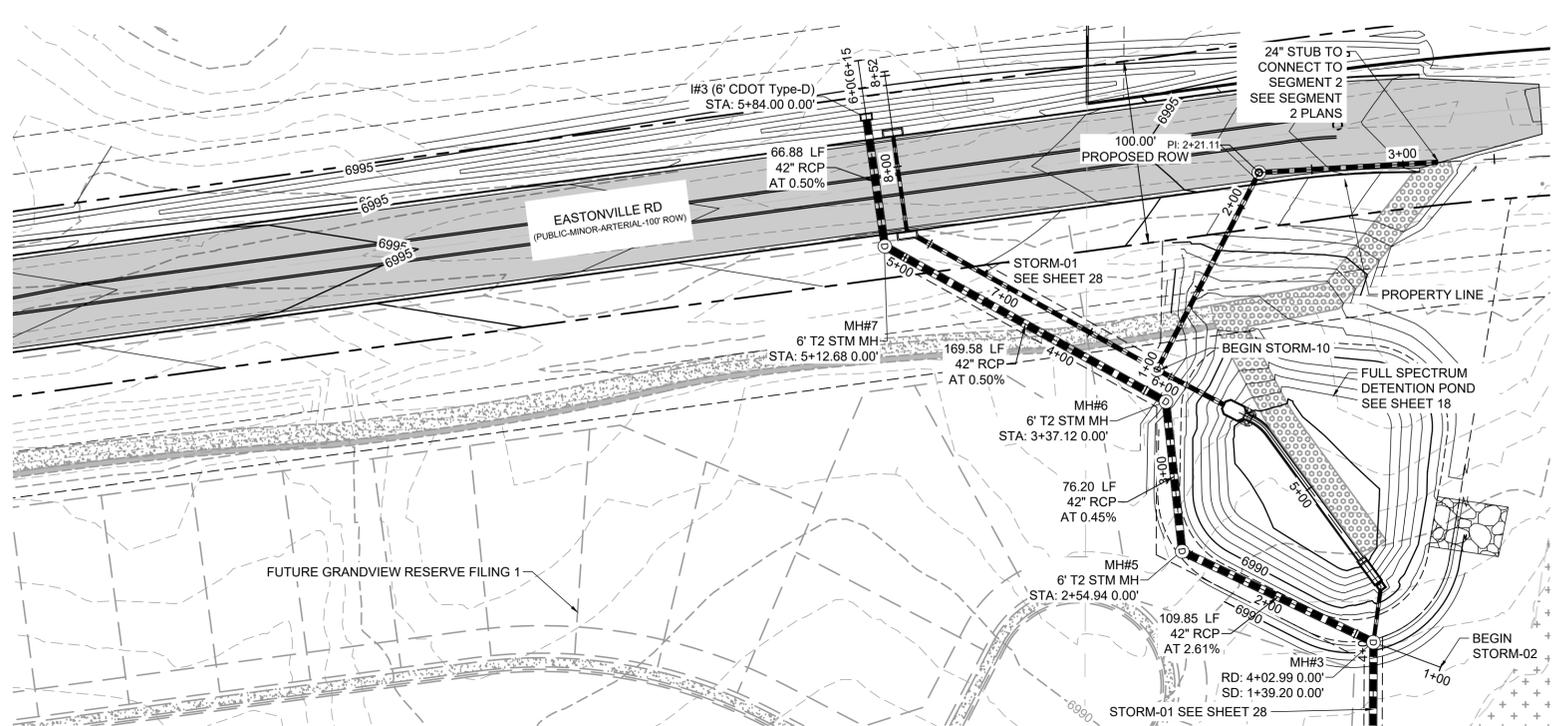
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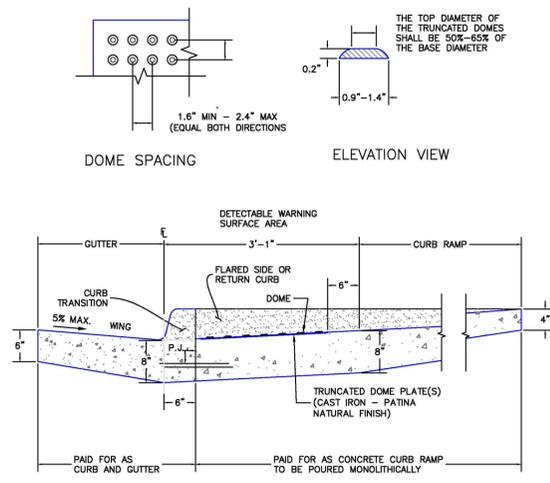
EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
 STORM PLAN AND PROFILE

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STM.4 **29**

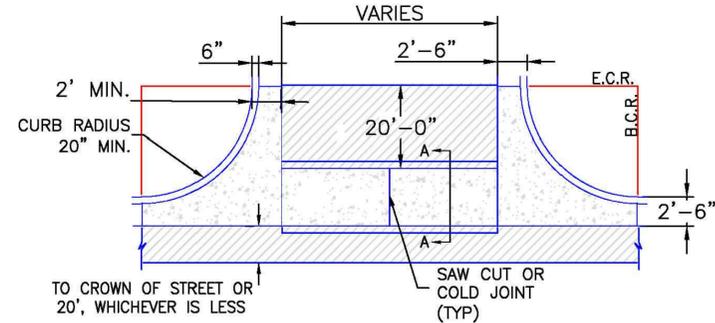
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TRUNCATED DOME DETAILS

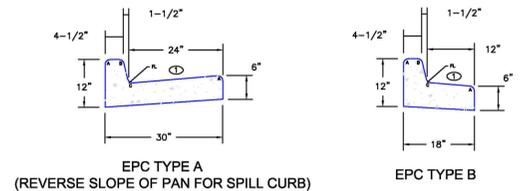
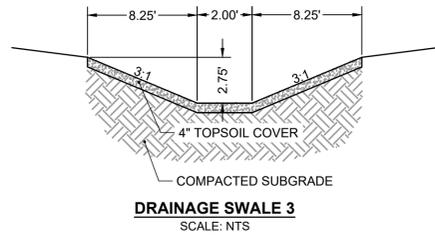
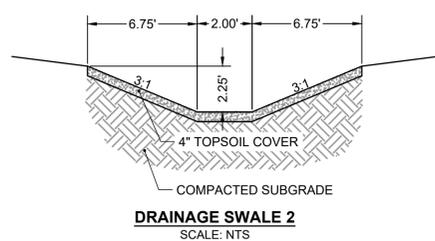
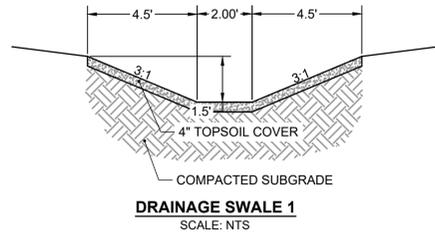


P.J. = PERMISSIBLE JOINT WITH EPOXY-COATED DEFORMED NO. 4 BARS CONFORMING TO AASHTO M 284 AT 18 IN. SPACING
DETECTABLE WARNING SURFACE DETAILS (SD 2-42)
SCALE: NTS



NOTES

1. W - WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, AND 10' FOR ARTERIAL ROADS.
2. T - SQUARED-OFF RETURN TO BE POURED MONOLITHICALLY, 8" PCC FOR LOCAL ROADS, 9" FOR COLLECTORS WITH 6x6 - 4.4 W.W.F. OR #4 REINFORCING BAR @ 18" EACH WAY.
3. [Hatched Box] = 3" MINIMUM ASPHALT DEPTH (2 LIFTS).
4. DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.
TYPICAL CROSS PAN LAYOUT DETAIL (SD 2-26)
SCALE: NTS



LEGEND FOR RAMP

A	1/8" TO 1/4"
B	1-1/2"
C	1-1/2" TO 2"

⊕ = GUTTER CROSS SLOPES SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB (WITH EXCEPTION TO IMMEDIATELY ADJACENT TO CURB RAMP - SEE CURB RAMP STANDARDS FOR SLOPE REQUIREMENTS).

TYPICAL CURB & GUTTER DETAILS DETAIL (SD 2-20)
SCALE: NTS



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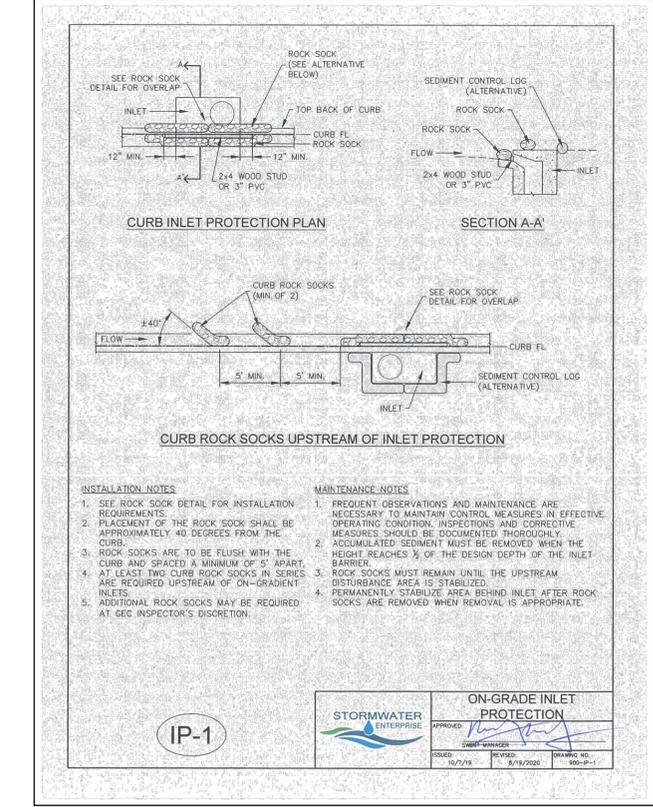
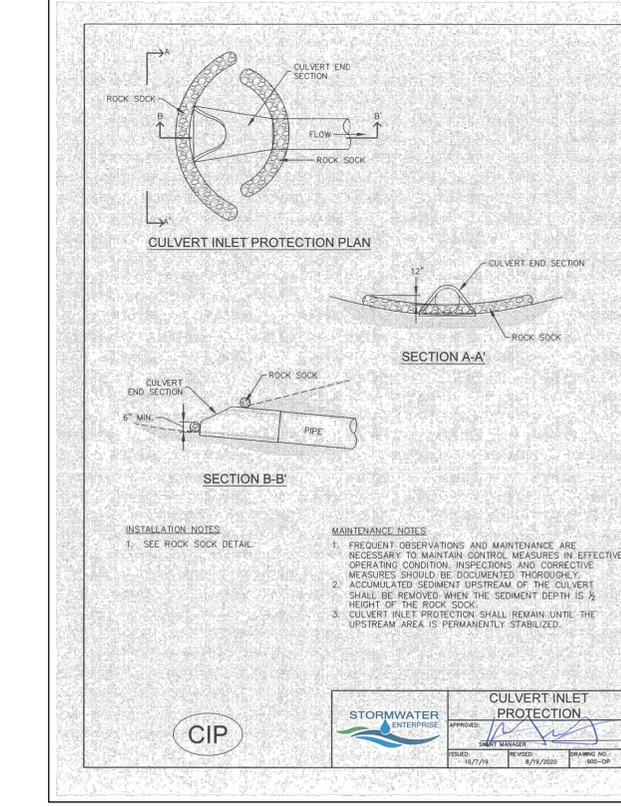
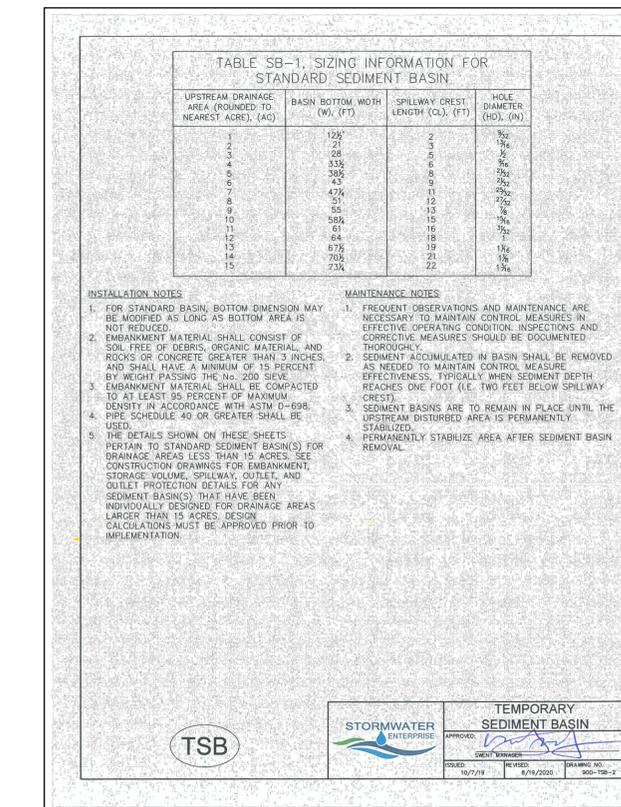
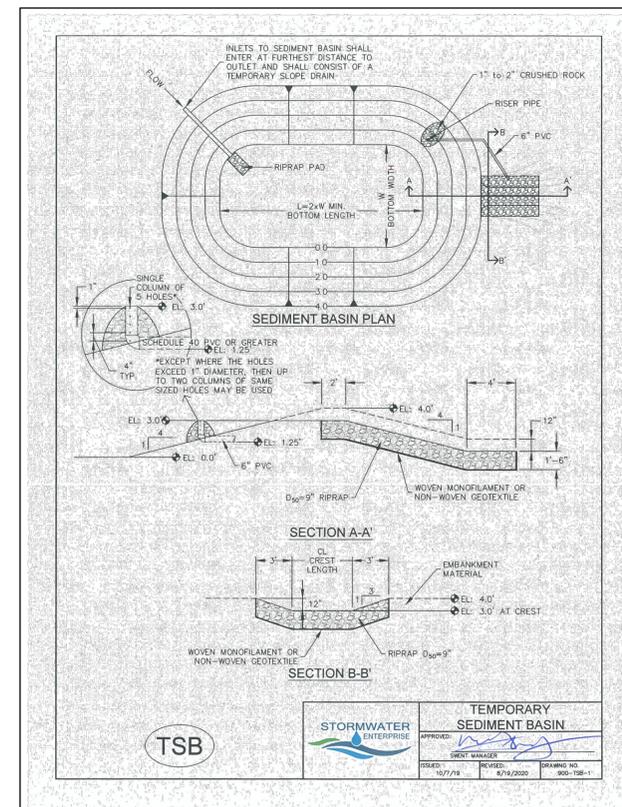
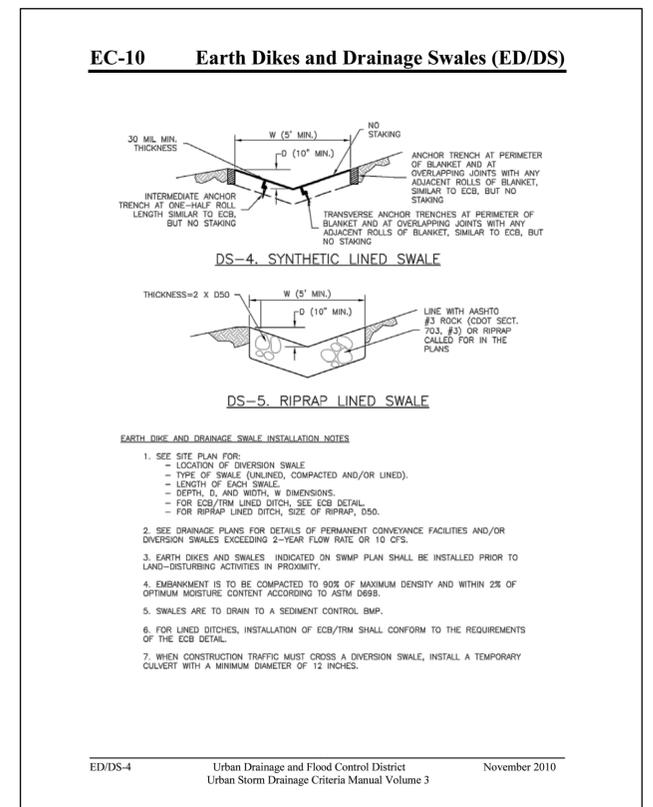
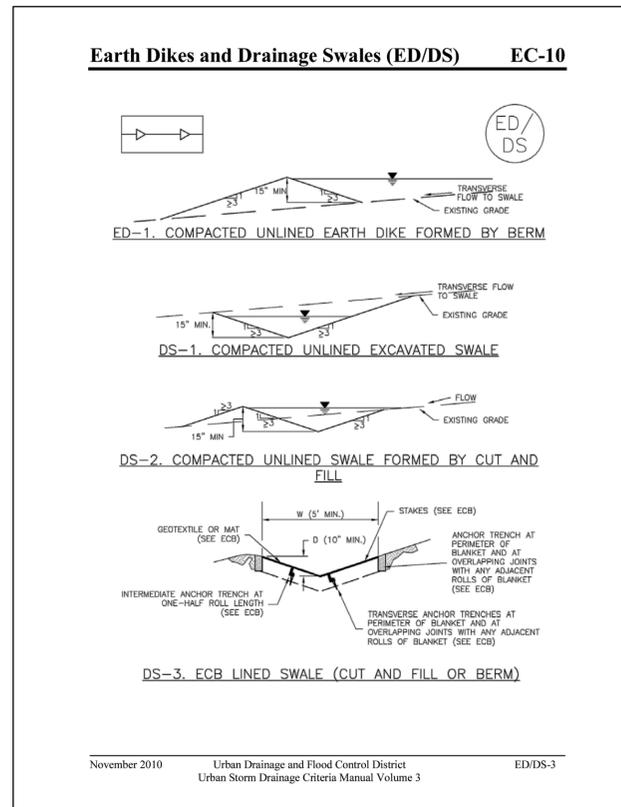
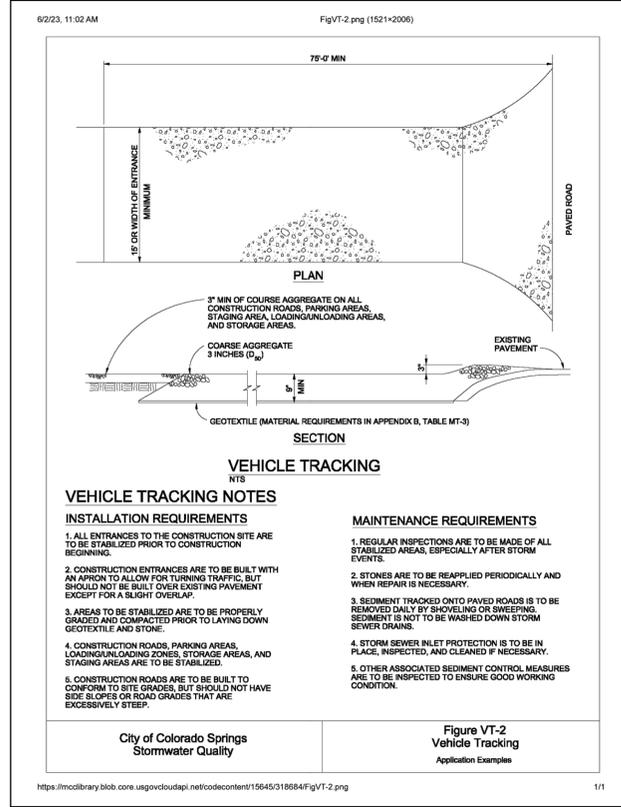
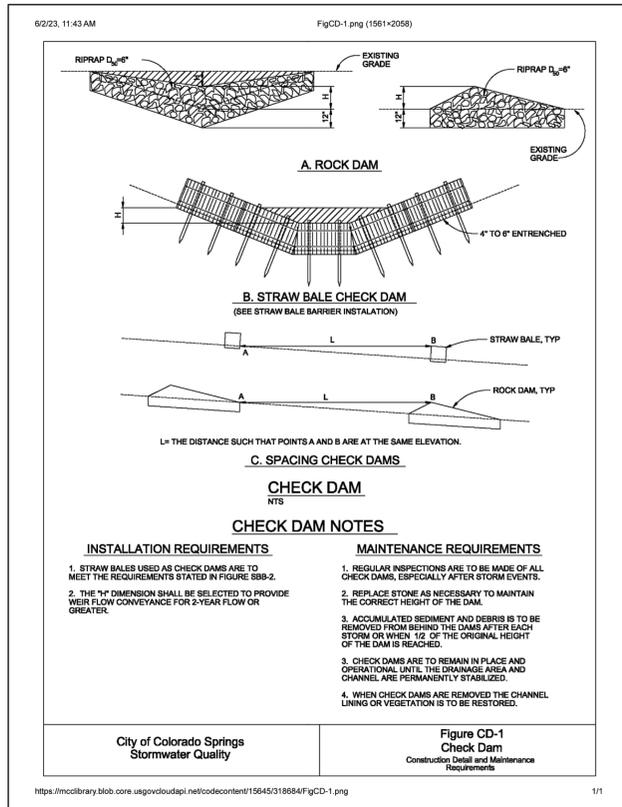
HRGreen
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PHONE: 719.300.4140
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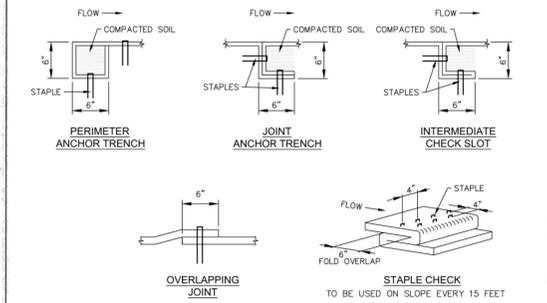
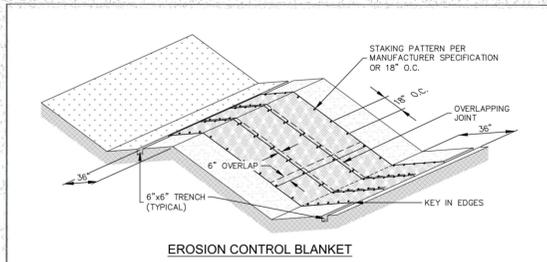
EASTONVILLE ROAD IMPROVEMENTS
DR. HORTON
EL PASO COUNTY, COLORADO

D-R HORTON
America's Builder

EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
DETAILS

SHEET
DT.1
30





EROSION CONTROL BLANKET

APPROVED: [Signature]

ISSUED: 10/7/19 REVISED: 8/19/2020 DRAWING NO. 900-ECB-1

- INSTALLATION NOTES**
1. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE REQUIRED FOR EROSION CONTROL BLANKETS. TRM PRODUCTS MAY BE USED WHERE APPROPRIATE AS DESIGNATED BY THE ENGINEER.
 2. IN AREAS WHERE EROSION CONTROL BLANKETS ARE SHOWN ON THE PLANS, THE PERMITEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOST PRIOR TO EROSION CONTROL BLANKET INSTALLATION, AND THE EROSION CONTROL BLANKET SHALL BE IN FULL CONTACT WITH THE SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
 3. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
 4. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF EROSION CONTROL BLANKETS TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL EROSION CONTROL BLANKETS.
 5. INTERMEDIATE CHECK SLOT OR STAPLE CHECK SHALL BE INSTALLED EVERY 15' DOWN SLOPES. IN DRAINAGEWAYS, INSTALL CHECK SLOTS EVERY 25' PERPENDICULAR TO FLOW DIRECTION.
 6. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF EROSION CONTROL BLANKETS TOGETHER FOR EROSION CONTROL BLANKETS ON SLOPES.
 7. MATERIAL SPECIFICATIONS OF EROSION CONTROL BLANKETS SHALL CONFORM TO TABLE ECB-1.
 8. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING EROSION CONTROL BLANKETS SHALL BE RESEEDED AND MULCHED.
 9. STRAW EROSION CONTROL BLANKETS SHALL NOT BE USED WITHIN STREAMS AND DRAINAGE CHANNELS.
 10. COMPACT ALL TRENCHES.
- MAINTENANCE NOTES**
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 2. EROSION CONTROL BLANKETS SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE. TRM MUST BE REMOVED AT THE DISCRETION OF THE GEC INSPECTOR.
 3. ANY EROSION CONTROL BLANKET PULLED, DIRT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW GEOTEXTILE THAT HAVE ERODED TO CREATE A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE EROSION CONTROL BLANKET REINSTALLED.

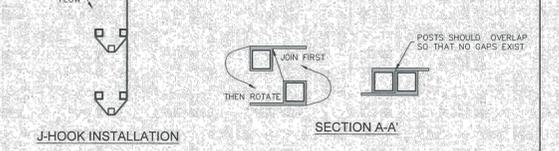
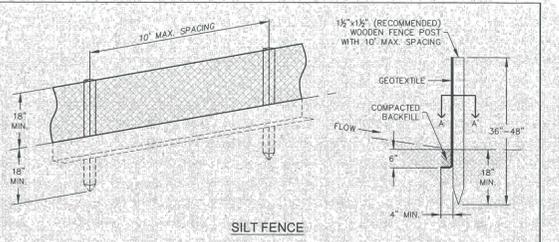
TABLE ECB-1, EROSION CONTROL BLANKET MATERIAL SPECIFICATIONS

TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELISOR CONTENT	RECOMMENDED NETTING
STRAW	---	100%	---	DOUBLE / NATURAL
STRAW-COCONUT	50% MIN.	70% MAX.	---	DOUBLE / NATURAL
COCONUT	100%	---	---	DOUBLE / NATURAL
EXCELISOR	---	---	100%	DOUBLE / NATURAL

EROSION CONTROL BLANKET

APPROVED: [Signature]

ISSUED: 10/7/19 REVISED: 8/19/2020 DRAWING NO. 900-ECB-2



- INSTALLATION NOTES**
1. SILT FENCE MUST BE PLACED ON A FLAT SURFACE 2"-5" AWAY FROM TOE OF THE SLOPE TO ALLOW FOR PONDING AND DEPOSITION.
 2. COMPACT THE TRENCH USING A JUMPING JACK OR WHEEL ROLLING TO THE POINT THAT THE FENCE RESISTS BEING PULLED OUT OF THE GROUND BY HAND.
 3. SILT FENCE SHALL BE TAFT WITH NO SAGS AFTER IT HAS BEEN ANCHORED.
 4. FABRIC SHALL BE ATTACHED TO POSTS WITH 1" HEAVY DUTY STAPLES OR 1" NAILS. THESE SHOULD BE PLACED VERTICALLY DOWN THE POST, 3" APART.
 5. THE PREFERRED INSTALLATION METHOD USES A TRENCHER OR SILT FENCE INSTALLATION DEVICE.
 6. INSTALL SILT FENCE ALONG THE CONTOUR OF THE SLOPES OR IN A MANNER TO AVOID CREATING CONCENTRATED FLOW (SUCH AS A "J-HOOK" INSTALLATION).
- MAINTENANCE NOTES**
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE DESIGN HEIGHT OF THE SILT FENCE.
 3. SILT FENCE MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
 4. PERMANENTLY STABILIZE AREA AFTER SILT FENCE IS REMOVED.

SILT FENCE

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ISSUED: 10/7/19 REVISED: 8/19/2020 DRAWING NO. 900-SF

SEEDING & MULCHING

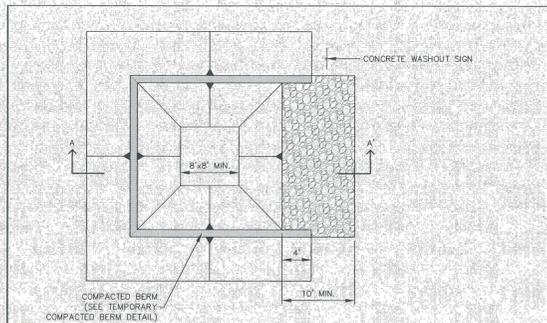
- ALL SOIL TESTING, SOILS AMENDMENT AND FERTILIZER DOCUMENTATION, AND SEED LOAD AND BAG TICKETS MUST BE ADDED TO THE CSWP.
- SOIL PREPARATION**
1. IN AREAS TO BE SEEDDED, THE UPPER 6 INCHES OF THE SOIL MUST NOT BE HEAVILY COMPACTED, AND SHOULD BE IN FRABLE CONDITION. LESS THAN 88% STANDARD PROCTOR DENSITY IS ACCEPTABLE. AREAS OF COMPACTION OR GENERAL CONSTRUCTION ACTIVITY MUST BE SCRUBBED TO A DEPTH OF 6 TO 12 INCHES PRIOR TO SPREADING TOPSOIL TO BREAK UP COMPACTED LAYERS AND PROVIDE A BLENDING ZONE BETWEEN DIFFERENT SOIL LAYERS.
 2. AREAS TO BE PLANTED SHALL HAVE AT LEAST 4 INCHES OF TOPSOIL SUITABLE TO SUPPORT PLANT GROWTH.
 3. THE CITY RECOMMENDS THAT EXISTING AND/OR IMPORTED TOPSOIL BE TESTED TO IDENTIFY SOIL DEFICIENCIES AND ANY SOIL AMENDMENTS NECESSARY TO ADDRESS THESE DEFICIENCIES. SOIL AMENDMENTS AND/OR FERTILIZERS SHOULD BE ADDED TO CORRECT TOPSOIL DEFICIENCIES BASED ON SOIL TESTING RESULTS.
 4. TOPSOIL SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE. AVOID COMPACTION, AND TO PREVENT EROSION AND CONTAMINATION, STRIPPED TOPSOIL MUST BE STORED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION OPERATIONS, AND CARE MUST BE TAKEN TO PROTECT THE TOPSOIL AS A VALUABLE COMMODITY. TOPSOIL MUST NOT BE STRIPPED DURING UNDESIRABLE WORKING CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED IN SWALES OR IN AREAS WITH POOR DRAINAGE.

- SEEDING**
1. ALLOWABLE SEED MIXES ARE INCLUDED IN THE CITY OF COLORADO SPRINGS STORMWATER CONSTRUCTION MANUAL. ALTERNATIVE SEED MIXES ARE ACCEPTABLE IF INCLUDED IN AN APPROVED LANDSCAPING PLAN.
 2. SEED SHOULD BE DRILL-SEEDED WHENEVER POSSIBLE.
 3. SEED DEPTH MUST BE 1/2 TO 3/4 INCHES WHEN DRILL-SEEDING IS USED.
 4. BROADCAST SEEDING OR HYDRO-SEEDING WITH TACKIFIER MAY BE SUBSTITUTED ON SLOPES STEEPER THAN 3:1 OR ON OTHER AREAS NOT PRACTICAL TO DRILL-SEED.
 5. SEEDING RATES MUST BE DOUBLED FOR BROADCAST SEEDING OR INCREASED BY 50% IF USING A BRILLIANT DRILL OR HYDRO-SEEDING.
 6. BROADCAST SEEDING MUST BE LIGHTLY HAND-RAKED INTO THE SOIL.
- MULCHING**
1. MULCHING SHOULD BE COMPLETED AS SOON AS PRACTICABLE AFTER SEEDING, HOWEVER PLANTED AREAS MUST BE MULCHED NO LATER THAN 14 DAYS AFTER PLANTING.
 2. MULCHING REQUIREMENTS INCLUDE:
 - HAY OR STRAW MULCH
 - ONLY CERTIFIED WEED-FREE AND CERTIFIED SEED-FREE MULCH MAY BE USED. MULCH MUST BE APPLIED AT 2 TONS/ACRE AND ADEQUATELY SECURED BY CRIMPING AND/OR TACKIFIER.
 - CRIMPING MUST NOT BE USED ON SLOPES GREATER THAN 3:1 AND MULCH FIBERS MUST BE TUCKED INTO THE SOIL TO A DEPTH OF 3 TO 4 INCHES.
 - TACKIFIER MUST BE USED IN PLACE OF CRIMPING ON SLOPES STEEPER THAN 3:1.
 - HYDRAULIC MULCHING
 - HYDRAULIC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE ACCESS IS LIMITED.
 - IF HYDRO-SEEDING IS USED, MULCHING MUST BE APPLIED AS A SEPARATE SECOND OPERATION.
 - WOOD CELLULOSE FIBERS MIXED WITH WATER MUST BE APPLIED AT A RATE OF 2,000 TO 2,500 GALLONS/ACRE, AND TACKIFIER MUST BE APPLIED AT A RATE OF 100 POUNDS/ACRE.
 3. EROSION CONTROL BLANKET
 - EROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.

SEEDING & MULCHING

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ISSUED: 10/7/19 REVISED: 8/19/2020 DRAWING NO. 900-SM



CONCRETE WASHOUT AREA

APPROVED: [Signature]

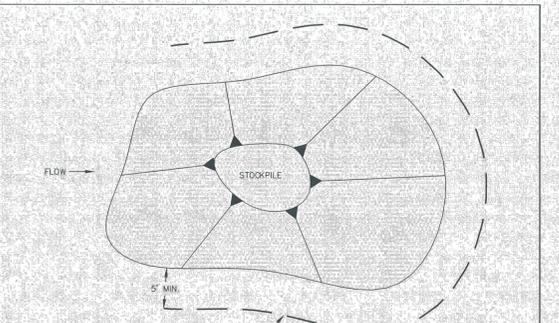
ISSUED: 10/7/19 REVISED: 8/19/2020 DRAWING NO. 900-CWA-1

- INSTALLATION NOTES**
1. SEE PLAN VIEW FOR:
 - LOCATION OF CONCRETE WASHOUT AREA
 - LOCATE AT LEAST 50' AWAY FROM STATE WATERS MEASURED HORIZONTALLY.
 - AN IMPERMEABLE LINER (6 MIL. MINIMUM THICKNESS) IS REQUIRED IF CONCRETE WASH AREA IS LOCATED WITHIN 400' OF STATE WATERS OR 1000' OR WELLS OR DRINKING WATER SOURCES.
 - DO NOT LOCATE IN AREAS WHERE SHALLOW GROUNDWATER MAY BE PRESENT.
 2. THE CONCRETE WASH AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
 3. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
 4. THE CONCRETE WASH AREA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
 5. PERMANENTLY STABILIZE AREA AFTER CONCRETE WASH AREA IS REMOVED.
- MAINTENANCE NOTES**
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 2. THE CONCRETE WASH AREA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN THE PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 1/2 THE HEIGHT OF THE CONCRETE WASH AREA.
 3. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
 4. THE CONCRETE WASH AREA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
 5. PERMANENTLY STABILIZE AREA AFTER CONCRETE WASH AREA IS REMOVED.

CONCRETE WASHOUT AREA

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ISSUED: 10/7/19 REVISED: 8/19/2020 DRAWING NO. 900-CWA-2

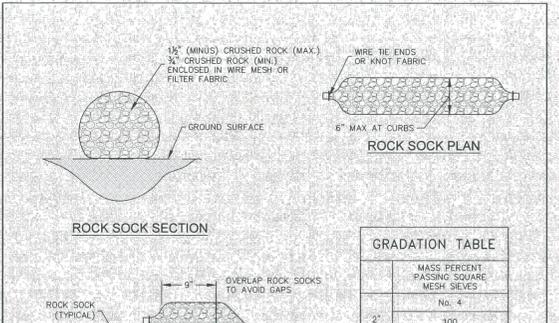


- INSTALLATION NOTES**
1. INSTALL PERIMETER CONTROL AROUND STOCKPILE ON DOWNGRADIENT SIDE. PERIMETER CONTROL MUST BE SUITABLE TO SITE CONDITIONS AND INSTALLED ACCORDING TO THE RELEVANT DETAIL.
 2. FOR STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS INCLUDING PERIMETER CONTROL ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.
- MAINTENANCE NOTES**
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 2. IF PERIMETER CONTROLS MUST BE MOVED TO ACCESS STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORK DAY.
 3. ACCUMULATED SEDIMENT MUST BE REMOVED ACCORDING TO PERIMETER CONTROL DETAIL.

STOCKPILE PROTECTION

APPROVED: [Signature]

ISSUED: 10/7/19 REVISED: 8/19/2020 DRAWING NO. 900-SP



- INSTALLATION NOTES**
1. CRUSHED ROCK SHALL BE BETWEEN MAX. 1 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET AND MIN. 3/4" CRUSHED ROCK.
 2. WIRE MESH SHALL HAVE OPENINGS SMALLER THAN THE SMALLEST SIZE ROCK.
 3. WIRE MESH SHALL BE SECURED USING HOG RINGS OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
- MAINTENANCE NOTES**
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 2. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED BEYOND REPAIR.
 3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE DEPTH REACHES 1/2 OF THE HEIGHT OF THE ROCK SOCK.
 4. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL DISTURBED AREA IS STABILIZED.
 5. PERMANENTLY STABILIZE AREA AFTER ROCK SOCKS HAVE BEEN REMOVED.

ROCK SOCK

APPROVED: [Signature]

ISSUED: 10/7/19 REVISED: 8/19/2020 DRAWING NO. 900-RS

HR GREEN xref: xref-1.dwg

DRAWN BY: ACH JOB DATE: 3/15/2024 BAR IS ONE INCH ON OFFICIAL DRAWINGS.

APPROVED: CPM JOB NUMBER: 201662.08 0

CAD DATE: 3/22/2024 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

CAD FILE: J:\2020\201662\CAD\DWGS\C\Eastonville_Road_662.08\Segment_1\CD\GEC\GEC_details

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen

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EASTONVILLE ROAD IMPROVEMENTS
DR. HORTON
EL PASO COUNTY, COLORADO

EASTONVILLE ROAD SEGEMENT 1 IMPROVEMENTS
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