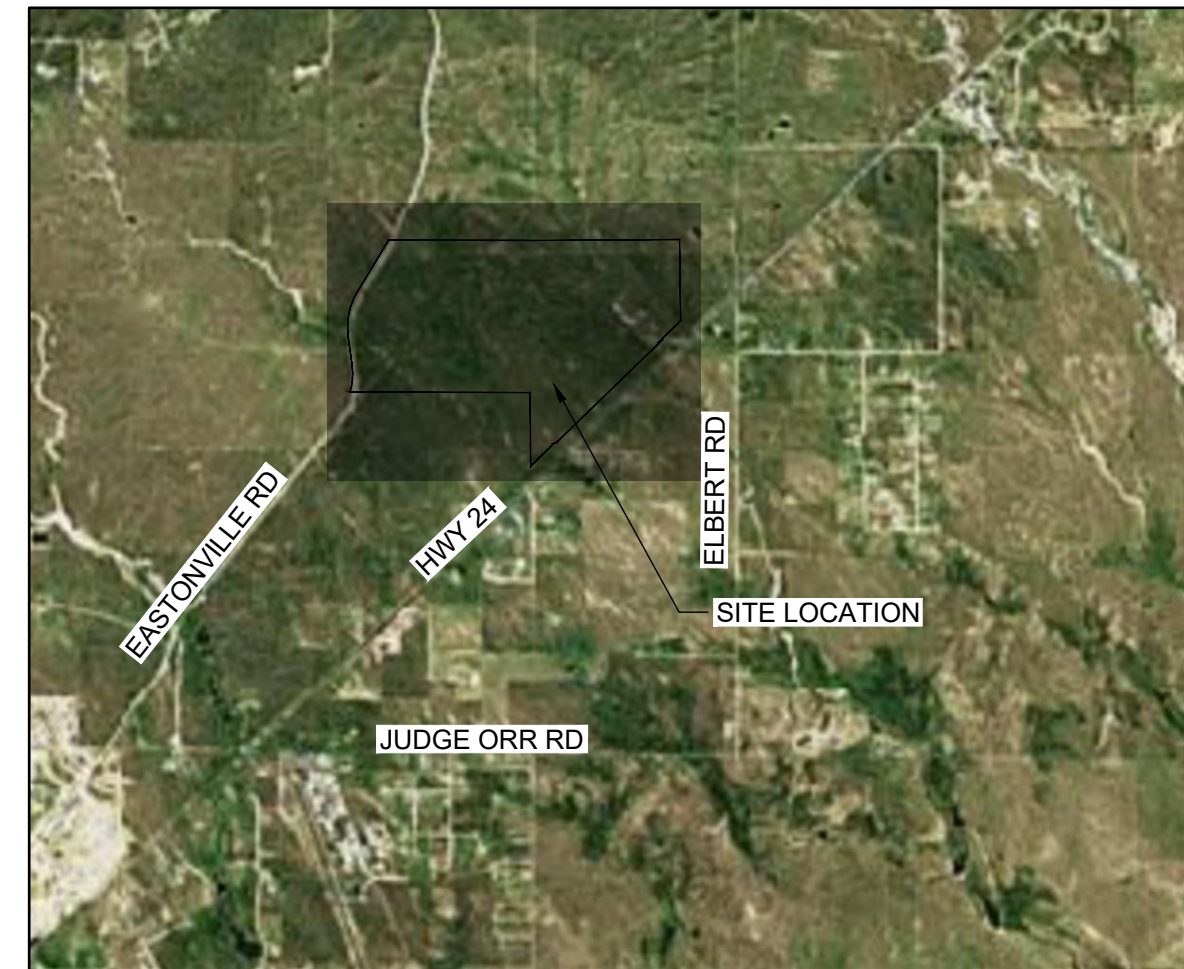


# GRANDVIEW RESERVE

Include name of channel section

Add statement that ownership and maintenance is by the Grandview Metro District

SECTIONS 21, 22, 27 & 28, TOWNSHIP 12 S, RANGE 64 W  
CITY OF FALCON, EL PASO COUNTY, STATE OF COLORADO



VICINITY MAP  
SCALE: 1" = 5000'

### BASIS OF BEARINGS:

THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, BEING ASSUMED TO BEAR NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST, A DISTANCE OF 5290.17 FEET.

### BENCHMARK:

DESIGNATION = F 24  
PID = JK0240  
DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT  
CONTROL POINT COORDINATE SYSTEM: NAVD88  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33

### LEGAL DESCRIPTION:

A TRACT OF LAND BEING PORTIONS OF THE SOUTH HALF OF SECTION 21, SOUTH HALF OF SECTION 22, NORTH HALF OF SECTION 28 AND SECTION 27, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 21; THENCE NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST ON THE EAST LINE OF SAID SECTION, A DISTANCE OF 2645.09 FEET TO THE NORTHEAST CORNER OF THE SOUTHEAST QUARTER OF SAID SECTION 21, SAID POINT BEING THE POINT OF BEGINNING; THENCE NORTH 89 DEGREES 41 MINUTES 03 SECONDS EAST ON THE NORTH LINE OF THE SOUTH HALF OF SAID SECTION 22, A DISTANCE OF 3938.20 FEET; THENCE SOUTH 00 DEGREES 41 MINUTES 58 SECONDS EAST ON THE EAST LINE OF THE WEST HALF OF THE SOUTHEAST QUARTER OF SECTION 22, A DISTANCE OF 2117.66 FEET TO A POINT ON THE NORTHWESTERLY RIGHT OF WAY LINE OF THE ROCK ISLAND REGIONAL TRAIL AS GRANTED TO EL PASO COUNTY IN THAT WARRANTY DEED RECORDED OCTOBER 21, 1994 IN BOOK 6548 AT PAGE 892, RECORDS OF EL PASO COUNTY, COLORADO; THENCE ON SAID NORTHWESTERLY RIGHT OF WAY, THE FOLLOWING FIVE (5) COURSES:

- (1) SOUTH 45 DEGREES 55 MINUTES 49 SECONDS WEST, A DISTANCE OF 758.36 FEET TO A POINT ON THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 22;
- (2) NORTH 89 DEGREES 38 MINUTES 06 SECONDS EAST ON SAID SOUTH LINE, A DISTANCE OF 36.18 FEET;
- (3) SOUTH 45 DEGREES 55 MINUTES 49 SECONDS WEST, A DISTANCE OF 3818.92 FEET TO A POINT ON THE NORTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 27;
- (4) SOUTH 89 DEGREES 39 MINUTES 01 SECONDS WEST ON SAID NORTH LINE, A DISTANCE OF 36.17 FEET;
- (5) SOUTH 45 DEGREES 55 MINUTES 49 SECONDS WEST, A DISTANCE OF 855.35 FEET TO A POINT ON THE EASTERLY LINE OF SAID SECTION 28;

THENCE NORTH 00 DEGREES 21 MINUTES 45 SECONDS WEST ON THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 28, A DISTANCE OF 591.16 FEET TO THE NORTHEAST CORNER OF SAID SOUTHEAST QUARTER; THENCE NORTH 00 DEGREES 21 MINUTES 38 SECONDS WEST ON THE EAST LINE OF SAID SECTION 28, A DISTANCE OF 1319.24 FEET TO THE SOUTH LINE OF THE NORTH HALF OF THE NORTH HALF OF SAID SECTION 28; THENCE NORTH 89 DEGREES 47 MINUTES 08 SECONDS WEST ON SAID SOUTH LINE, A DISTANCE OF 4692.55 FEET TO A POINT ON THE EASTERLY RIGHT OF WAY LINE OF EXISTING EASTONVILLE ROAD (60.00 FOOT WIDE); THENCE ON SAID EASTERLY RIGHT OF WAY AS DEFINED BY CERTIFIED BOUNDARY SURVEY, AS RECORDED JULY 18, 2001 UNDER RECEPTION NO. 201900096, THE FOLLOWING FIVE (5) COURSES:

- (1) ON THE ARC OF A CURVE TO THE LEFT, WHOSE CENTER BEARS NORTH 73 DEGREES 08 MINUTES 46 SECONDS WEST, HAVING A DELTA OF 24 DEGREES 31 MINUTES 32 SECONDS, A RADIUS OF 1630.00 FEET, A DISTANCE OF 697.73 FEET TO A POINT OF TANGENT;
- (2) NORTH 07 DEGREES 40 MINUTES 18 SECONDS WEST, A DISTANCE OF 777.34 FEET TO A POINT OF CURVE;
- (3) ON THE ARC OF A CURVE TO THE RIGHT, HAVING A DELTA OF 39 DEGREES 01 MINUTES 10 SECONDS, A RADIUS OF 1770.00 FEET, A DISTANCE OF 1205.40 FEET TO A POINT OF TANGENT;
- (4) NORTH 31 DEGREES 20 MINUTES 52 SECONDS EAST, A DISTANCE OF 1517.37 FEET TO A POINT OF CURVE;
- (5) ON THE ARC OF A CURVE TO THE LEFT, HAVING A DELTA OF 02 DEGREES 07 MINUTES 03 SECONDS, A RADIUS OF 1330.00 FEET, A DISTANCE OF 49.15 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH HALF OF SAID SECTION 21;

THENCE SOUTH 89 DEGREES 50 MINUTES 58 SECONDS EAST ON SAID NORTH LINE, A DISTANCE OF 3635.53 FEET TO THE POINT OF BEGINNING;

### 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 NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

GREGORY PANZA PE # 37081 DATE

### 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 IN THESE DETAILED PLANS AND SPECIFICATIONS.

MELODY HOMES DATE  
4 SITE INVESTMENTS LLC  
1271 KELLY JOHNSON BLVD STE 100 COLORADO SPRINGS CO, 80902

### 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 DIRECTOR'S DISCRETION.

JOSHUA PALMER, P.E. DATE  
COUNTY ENGINEER / ECM ADMINISTRATOR

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SHEET NUMBER	SHEET DESCRIPTION	SHEET TITLE
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03	SC1	SURVEY CONTROL PLAN
04	UP1	OVERALL UTILITY PLAN
05	GR1	TRIBUTARY 1 Grading
06	GR2	TRIBUTARY 2 Valley Grading
07	GR3	TRIBUTARY 2 Valley Grading
08	GR4	TRIBUTARY 2 Valley Grading
09	GR5	TRIBUTARY 2 Valley Grading
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13	GR9	TRIBUTARY 2 Valley Grading
14	GR10	TRIBUTARY 2 Valley Grading
15	GR11	TRIBUTARY 2 Valley Grading
16	GR12	TRIBUTARY 2 Valley Grading
17	GR13	TRIBUTARY 2 Valley Grading
18	GR14	TRIBUTARY 2 Bankfull Grading
19	GR15	TRIBUTARY 2 Bankfull Grading
20	GR16	TRIBUTARY 2 Bankfull Grading
21	GR17	TRIBUTARY 2 Bankfull Grading
22	GR18	TRIBUTARY 2 Bankfull Grading
23	GR19	TRIBUTARY 2 Bankfull Grading
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25	EC2	INITIAL EROSION CONTROL
26	EC3	INITIAL EROSION CONTROL
27	EC4	FINAL EROSION CONTROL
28	EC5	FINAL EROSION CONTROL
29	EC6	FINAL EROSION CONTROL
30	PP1	DRAINAGE TRIBUTARY 1 PLAN AND PROFILE
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32	PP3	DRAINAGE TRIBUTARY 2 PLAN AND PROFILE
33	PP4	DRAINAGE TRIBUTARY 2 PLAN AND PROFILE
34	PP5	DRAINAGE TRIBUTARY 2 PLAN AND PROFILE
35	PP6	DRAINAGE CULVERTS PLAN AND PROFILE
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39	CS3	TRIBUTARY 2 CROSS SECTIONS
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45	LP1	SEEDING PLAN
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47	LP3	SEEDING PLAN
48	LP4	SEEDING NOTES

### SYMBOLS, ABBREVIATIONS, AND LINETYPES LEGEND

- CWA CONCRETE WASHOUT AREA
- VTC VEHICLE TRACKING CONTROL
- SSA STABILIZED STAGING AREA
- LOC LIMITS OF CONSTRUCTION
- CD CHECK DAM
- SM SEEDING AND MULCHING
- RS ROCK SOCK
- PROPERTY LINE
- EXISTING EASEMENT
- GAS EXISTING GAS LINE
- TELE EXISTING TELEPHONE LINE
- X - X - X EXISTING FENCE LINE
- EXISTING SECTION LINE
- EXISTING SWALE
- OHE EXISTING OVERHEAD ELECTRIC
- EXISTING TELEPHONE POLE
- 5250 EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 5250 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- FLOW ARROW
- PROPOSED 100-YR FLOODPLAIN
- EXISTING 100-YR FLOODPLAIN
- EXISTING WETLANDS - JURISDICTIONAL
- EXISTING WETLANDS - NONJURISDICTIONAL
- PROPOSED MAINTENANCE TRAIL
- ARV AIR RELEASE VALVE
- CP CATHODIC PROTECTION STATION
- STA STATION
- MUE MULTI USE EASEMENT
- APRX APPROXIMATE
- PR PROPOSED
- FT FEET
- DIA DIAMETER
- LF LINEAL FEET
- EL ELEVATION

Add a little more space for signatures



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Phone: 720.602.4999 | Toll Free: 713.965.0044 | HRGreen.com

EL PASO PDC FILE NO.  
CDR-228

ENGINEER CONTACT(S):  
HR GREEN DEVELOPMENT, LLC  
GREG PANZA, P.E.  
5613 DTC PARKWAY | SUITE 950  
GREENWOOD VILLAGE, CO 80111  
PH: 720-602-4999  
gpanza@hrgreen.com

DRAWN BY: ACH	JOB DATE: 1/23/2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS:
APPROVED: GLP	JOB NUMBER: 201662.03	0
CAD DATE: 1/26/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
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NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - DENVER  
5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

GRANDVIEW RESERVE  
DR HORTON  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
TITLE SHEET

SHEET  
TS1  
01



**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 PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT (PCD) - 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 PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- 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. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW), 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.

Previous versions contained Channel Design Parameters Table. Please add back in and address comments from previous reviews.

**STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS**

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON-SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- 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, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE 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 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 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 A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE 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 CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ON-SITE 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 CUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS) AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON-SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY (CTL THOMPSON, JANUARY 6, 2022) AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT  
 WATER QUALITY CONTROL DIVISION  
 WQCD - PERMITS  
 4300 CHERRY CREEK DRIVE SOUTH  
 DENVER, CO 80246-1530  
 ATTN: PERMITS UNIT

Add these tables back in from previous submittals.

EXISTING FLOWS FOR MAIN STEM (DRAINAGE A)			
STATION	2-YR STORM	5-YR STORM	100-YR STORM
37+13	23 cfs	67 cfs	413 cfs
25+92	25.45 cfs	60.03 cfs	479.80 cfs
15+57	26.45 cfs	60.03 cfs	479.80 cfs

EXISTING FLOWS FOR MAIN STEM TRIBUTARY (DRAINAGE B)			
STATION	2-YR STORM	5-YR STORM	100-YR STORM
45+30	19 cfs	59 cfs	285 cfs
22+59	20.14 cfs	68.95 cfs	390.70 cfs
6+14	22.14 cfs	65.99 cfs	397.42 cfs

FUTURE FLOWS FOR MAIN STEM (DRAINAGE A)			
STATION	2-YR STORM	5-YR STORM	100-YR STORM
37+13	23 cfs	67 cfs	413 cfs
25+92	23 cfs	67 cfs	413 cfs
15+57	27.75 cfs	67.69 cfs	466.50 cfs

FUTURE FLOWS FOR MAIN STEM TRIBUTARY (DRAINAGE B)			
STATION	2-YR STORM	5-YR STORM	100-YR STORM
47+49	19 cfs	59 cfs	285 cfs
36+90	31.72 cfs	60.52 cfs	395.63 cfs
5+54	33.53 cfs	63.16 cfs	353.68 cfs

DRAWN BY: TBI JOB DATE: 1/23/2024  
 APPROVED: GLP JOB NUMBER: 201662.03  
 CAD DATE: 1/26/2024  
 CAD FILE: J:\2020\201662.03\CAD\DWG\GENERAL NOTES

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



HR GREEN - DENVER  
 5613 DTC PARKWAY SUITE 950  
 DENVER CO 80111  
 PHONE: 720.602.4999  
 FAX: 713.965.0044

GRANDVIEW RESERVE  
 DR HORTON  
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
 GENERAL NOTES

SHEET  
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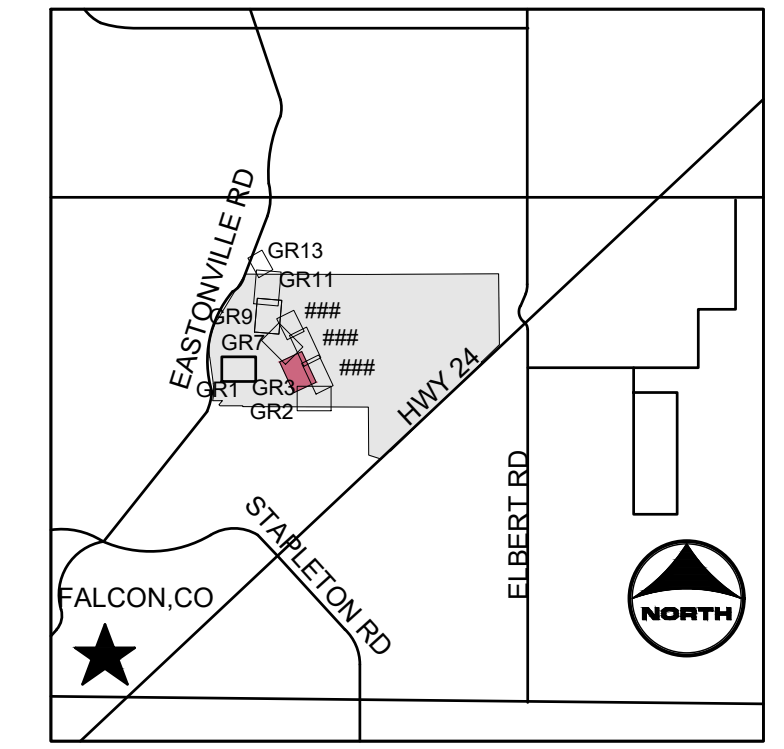
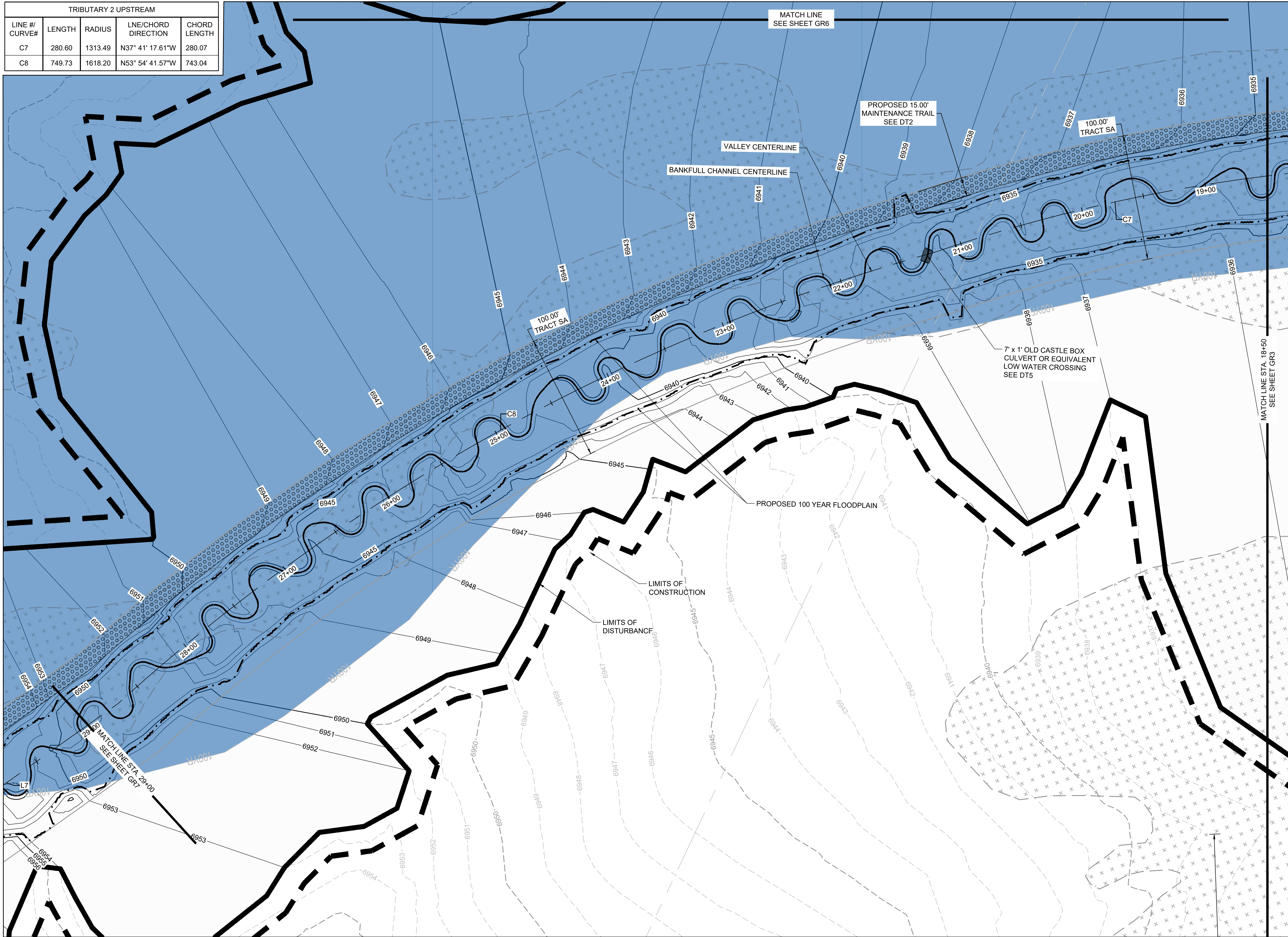






HR GREEN - DENVER: 5613 DTC PARKWAY SUITE 950, DENVER CO 80111, PHONE: 720.602.4999, FAX: 713.965.0044

TRIBUTARY 2 UPSTREAM				
LINE # / CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
C7	280.60	1313.49	N37° 41' 17.61"W	280.07
C8	749.73	1618.20	N53° 54' 41.57"W	743.04



**PROJECT LEGEND:**

- PROPERTY LINE
- - - EXISTING EASEMENT
- - - EXISTING GAS LINE
- - - EXISTING TELEPHONE LINE
- X - X - X - EXISTING FENCE LINE
- - - EXISTING SECTION LINE
- - - EXISTING SWALE
- - - EXISTING OVERHEAD ELECTRIC
- - - EXISTING TELEPHONE POLE
- - - EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
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- - - PROPOSED MINOR CONTOUR
- FLOW ARROW
- - - PROPOSED 100-YR FLOODPLAIN
- - - LIMITS OF CONSTRUCTION
- - - LIMITS OF DISTURBANCE
- EFFECTIVE 100-YR FLOODPLAIN
- + + + EXISTING WETLANDS - JURISDICTIONAL
- + + + EXISTING WETLANDS - NONJURISDICTIONAL
- ● ● PROPOSED MAINTENANCE TRAIL

**NOTES:**

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- BENCHMARK:**  
 DESIGNATION = F 24  
 PID = JK0240  
 DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT  
 CONTROL POINT COORDINATE SYSTEM:  
 NAVD88  
 NORTHING: 1421049.80  
 EASTING: 3273631.55  
 ELEVATION: 6866.33

**811** UNCC CALL BEFORE YOU DIG  
 811 OR 1-800-922-1987  
 Utility Notification Center of Colorado

DRAWN BY: TBI	JOB DATE: 1/25/2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS. 0" = 1"
APPROVED: GLP	JOB NUMBER: 201662.03	
CAD DATE: 1/26/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:120201201662.03\CAD\DWG\C\GRADING		

NO.	DATE	BY	REVISION DESCRIPTION

**HRGreen** HR GREEN - DENVER  
 5613 DTC PARKWAY SUITE 950  
 DENVER CO 80111  
 PHONE: 720.602.4999  
 FAX: 713.965.0044

**GRANDVIEW RESERVE**  
**DR HORTON**  
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
 TRIBUTARY 2 VALLEY GRADING

SHEET  
**GR5**  
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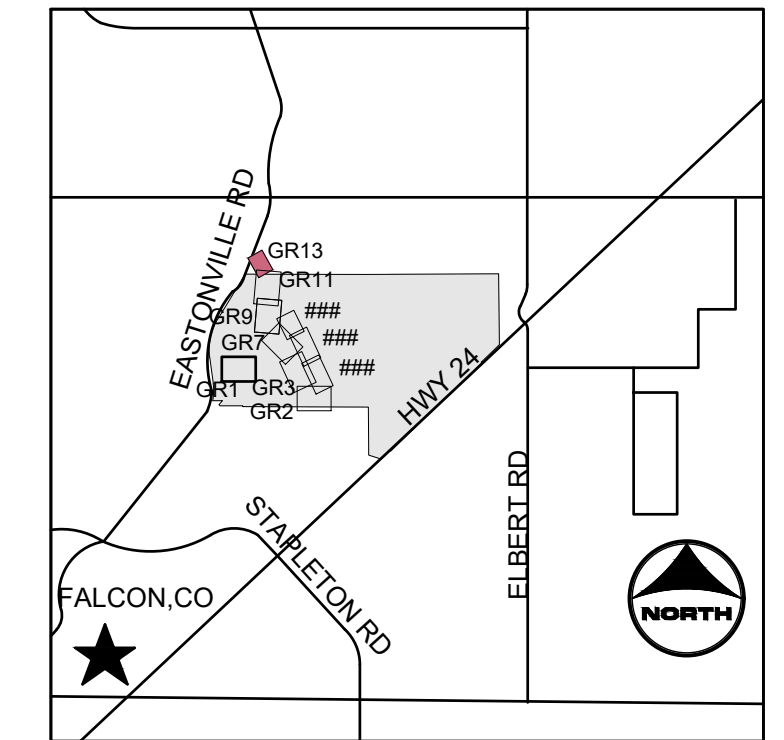
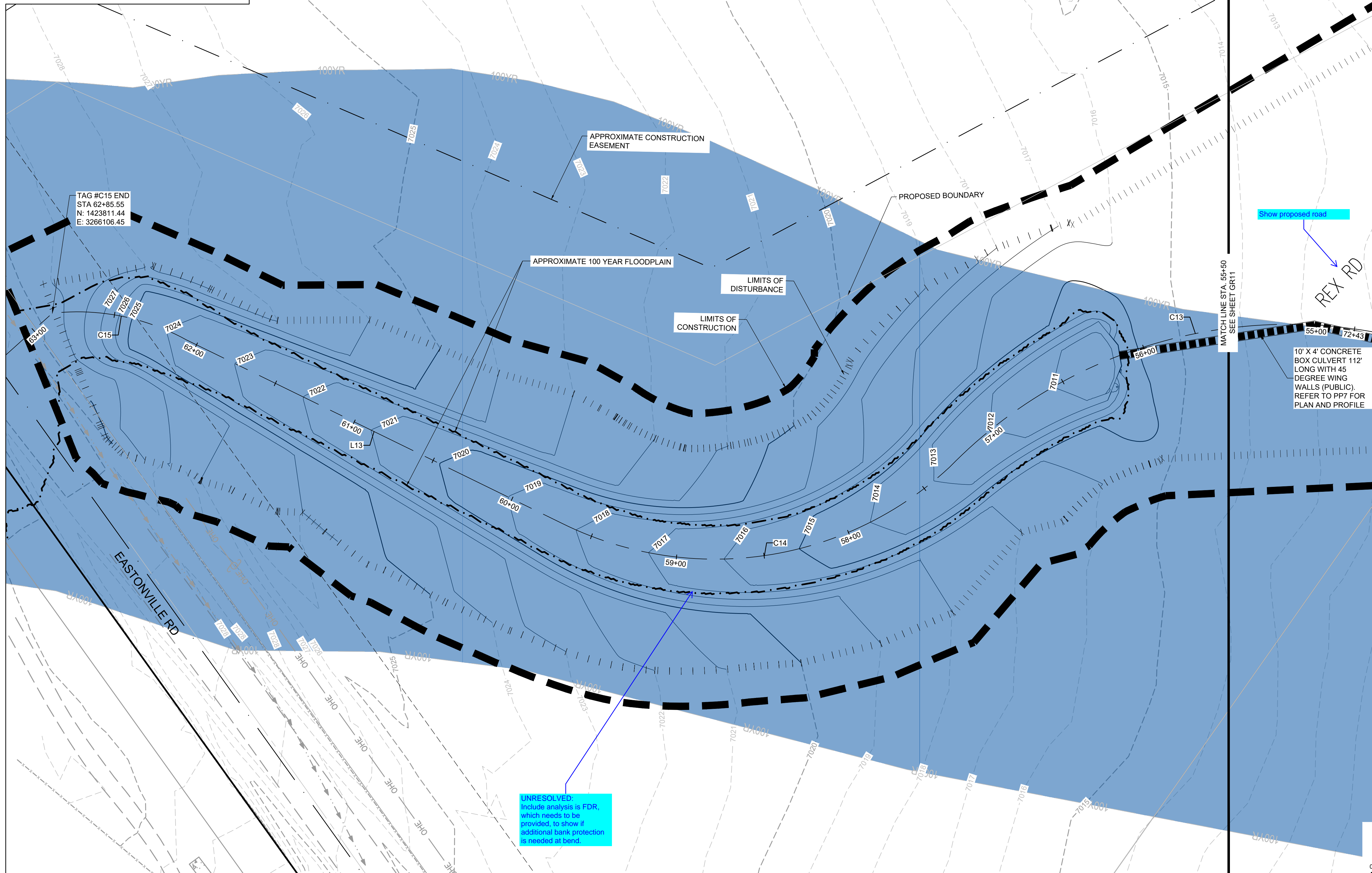








TRIBUTARY 2 UPSTREAM				
LINE # CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
C13	323.67	270.00	N46° 20' 43.62"W	304.64
C14	237.13	196.60	N43° 13' 44.36"W	223.02
L13	238.25		N8° 58' 38.75"W	
C15	78.95	128.55	N23° 48' 00.33"W	77.72



**PROJECT LEGEND:**

- PROPERTY LINE
- EXISTING EASEMENT
- GAS EXISTING GAS LINE
- TELE EXISTING TELEPHONE LINE
- X-X-X EXISTING FENCE LINE
- EXISTING SECTION LINE
- EXISTING SWALE
- OHE EXISTING OVERHEAD ELECTRIC
- EXISTING TELEPHONE POLE
- 5250 EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 5250 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- FLOW ARROW
- PROPOSED 100-YR FLOODPLAIN
- LIMITS OF CONSTRUCTION
- LIMITS OF DISTURBANCE
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- BENCHMARK:**  
 DESIGNATION = F 24  
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 CONTROL POINT COORDINATE SYSTEM:  
 NAVD88  
 NORTHING: 1421049.80  
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**811** UNCC CALL BEFORE YOU DIG  
**811** OR  
 1-800-922-1987  
 Utility Notification Center of Colorado

DRAWN BY: ACH JOB DATE: 1/25/2024  
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 CAD FILE: J:\2020\201662.03\CAD\DWG\CIG\GRADING

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**HRGreen**  
 HR GREEN - DENVER  
 5613 DTC PARKWAY SUITE 950  
 DENVER CO 80111  
 PHONE: 720.602.4999  
 FAX: 713.965.0044

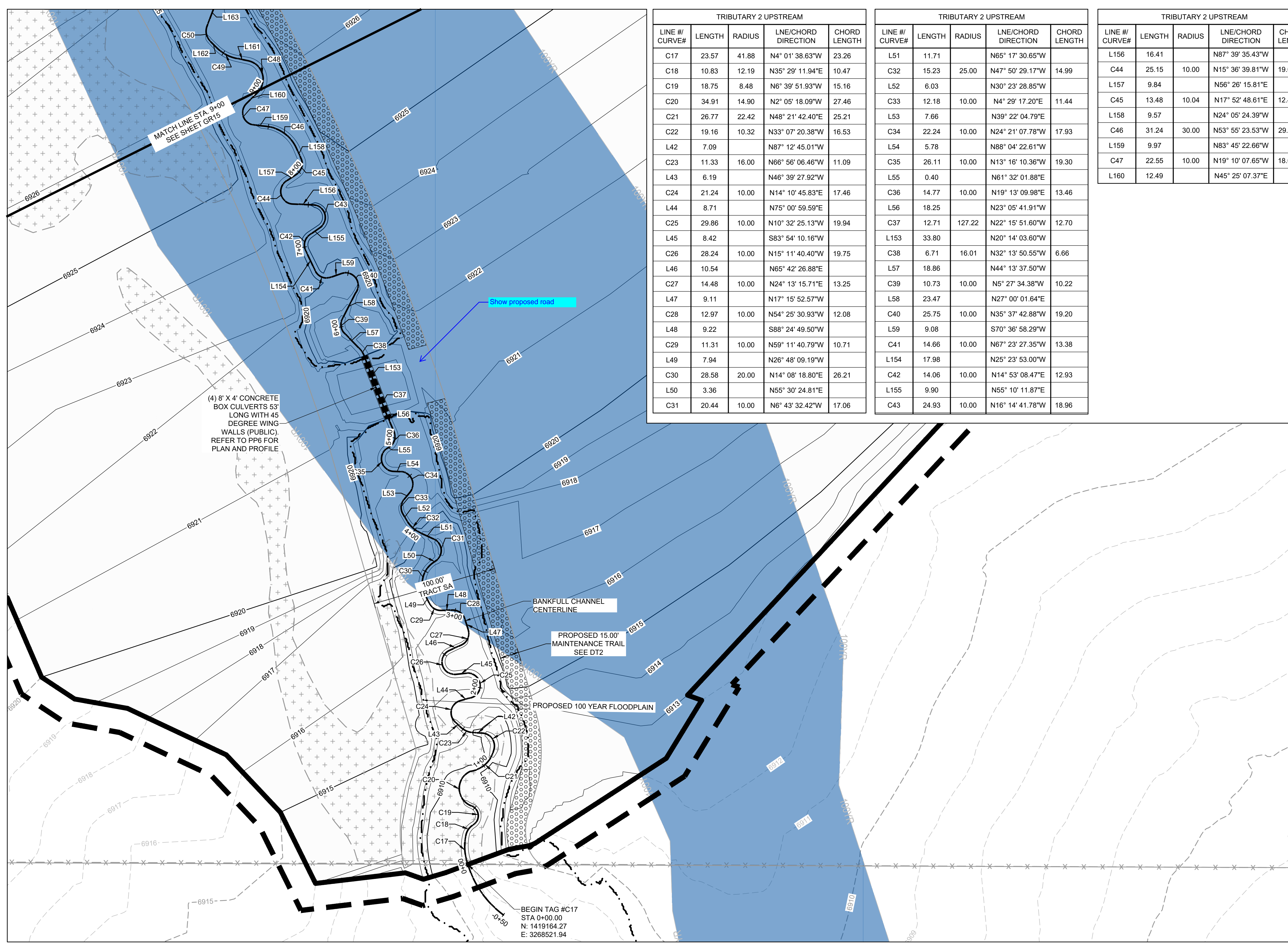
**GRANDVIEW RESERVE**  
**DR HORTON**  
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
 TRIBUTARY 2 VALLEY GRADING

SHEET  
**GR13**  
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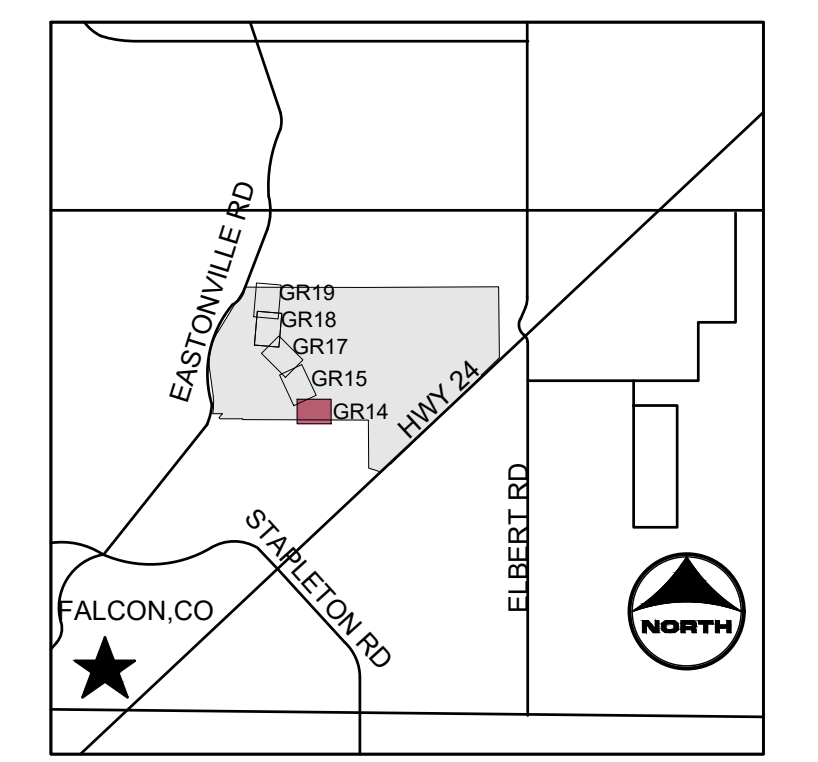
HR GREEN - DENVER 5613 DTC PARKWAY SUITE 950 DENVER CO 80111 PHONE: 720.602.4999 FAX: 713.965.0044  
 UNCC CALL BEFORE YOU DIG 811 OR 1-800-922-1987 Utility Notification Center of Colorado  
 811  
 COLORADO LICENSED PROFESSIONAL ENGINEER 37081  
 GREGORY L. PARKS  
 2-01-13  
 DRAWN BY: ACH JOB DATE: 1/25/2024 BAR IS ONE INCH ON OFFICIAL DRAWINGS: 1" IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.  
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TRIBUTARY 2 UPSTREAM				
LINE # / CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
C17	23.57	41.88	N4° 01' 38.63"W	23.26
C18	10.83	12.19	N35° 29' 11.94"E	10.47
C19	18.75	8.48	N6° 39' 51.93"W	15.16
C20	34.91	14.90	N2° 05' 18.09"W	27.46
C21	26.77	22.42	N48° 21' 42.40"E	25.21
C22	19.16	10.32	N33° 07' 20.38"W	16.53
L42	7.09		N87° 12' 45.01"W	
C23	11.33	16.00	N66° 56' 06.46"W	11.09
L43	6.19		N46° 39' 27.92"W	
C24	21.24	10.00	N14° 10' 45.83"E	17.46
L44	8.71		N75° 00' 59.59"E	
C25	29.86	10.00	N10° 32' 25.13"W	19.94
L45	8.42		S83° 54' 10.16"W	
C26	28.24	10.00	N15° 11' 40.40"W	19.75
L46	10.54		N65° 42' 26.88"E	
C27	14.48	10.00	N24° 13' 15.71"E	13.25
L47	9.11		N17° 15' 52.57"W	
C28	12.97	10.00	N54° 25' 30.93"W	12.08
L48	9.22		S88° 24' 49.50"W	
C29	11.31	10.00	N59° 11' 40.79"W	10.71
L49	7.94		N26° 48' 09.19"W	
C30	28.58	20.00	N14° 08' 18.80"E	26.21
L50	3.36		N55° 30' 24.81"E	
C31	20.44	10.00	N6° 43' 32.42"W	17.06

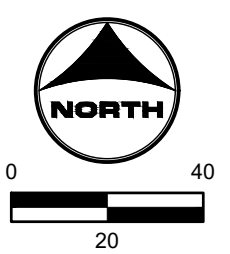
TRIBUTARY 2 UPSTREAM				
LINE # / CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
L51	11.71		N65° 17' 30.65"W	
C32	15.23	25.00	N47° 50' 29.17"W	14.99
L52	6.03		N30° 23' 28.85"W	
C33	12.18	10.00	N4° 29' 17.20"E	11.44
L53	7.66		N39° 22' 04.79"E	
C34	22.24	10.00	N24° 21' 07.78"W	17.93
L54	5.78		N88° 04' 22.61"W	
C35	26.11	10.00	N13° 16' 10.36"W	19.30
L55	0.40		N61° 32' 01.88"E	
C36	14.77	10.00	N19° 13' 09.98"E	13.46
L56	18.25		N23° 05' 41.91"W	
C37	12.71	127.22	N22° 15' 51.60"W	12.70
L153	33.80		N20° 14' 03.60"W	
C38	6.71	16.01	N32° 13' 50.55"W	6.66
L57	18.86		N44° 13' 37.50"W	
C39	10.73	10.00	N5° 27' 34.38"W	10.22
L58	23.47		N27° 00' 01.64"E	
C40	25.75	10.00	N35° 37' 42.88"W	19.20
L59	9.08		S70° 36' 58.29"W	
C41	14.66	10.00	N67° 23' 27.35"W	13.38
L154	17.98		N25° 23' 53.00"W	
C42	14.06	10.00	N14° 53' 08.47"E	12.93
L155	9.90		N55° 10' 11.87"E	
C43	24.93	10.00	N16° 14' 41.78"W	18.96

TRIBUTARY 2 UPSTREAM				
LINE # / CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
L156	16.41		N87° 39' 35.43"W	
C44	25.15	10.00	N15° 36' 39.81"W	19.03
L157	9.84		N56° 26' 15.81"E	
C45	13.48	10.04	N17° 52' 48.61"E	12.49
L158	9.57		N24° 05' 24.39"W	
C46	31.24	30.00	N53° 55' 23.53"W	29.85
L159	9.97		N83° 45' 22.66"W	
C47	22.55	10.00	N19° 10' 07.65"W	18.06
L160	12.49		N45° 25' 07.37"E	



- KEYMAP**
- PROJECT LEGEND:**
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  - - - EXISTING EASEMENT
  - GAS --- EXISTING GAS LINE
  - TELE --- EXISTING TELEPHONE LINE
  - X - X - X - EXISTING FENCE LINE
  - - - EXISTING SECTION LINE
  - - - EXISTING SWALE
  - OHE --- EXISTING OVERHEAD ELECTRIC
  - EXISTING TELEPHONE POLE
  - - -5250 --- EXISTING MAJOR CONTOUR
  - - - EXISTING MINOR CONTOUR
  - - -5250 --- PROPOSED MAJOR CONTOUR
  - - - PROPOSED MINOR CONTOUR
  - FLOW ARROW
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  - - - LIMITS OF DISTURBANCE
  - EFFECTIVE 100-YR FLOODPLAIN
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- NOTES:**
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**HRGreen**  
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 DENVER CO 80111  
 PHONE: 720.602.4999  
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**GRANDVIEW RESERVE**  
**DR HORTON**  
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
 TRIBUTARY 2 BANKFULL GRADING

SHEET  
**GR14**  
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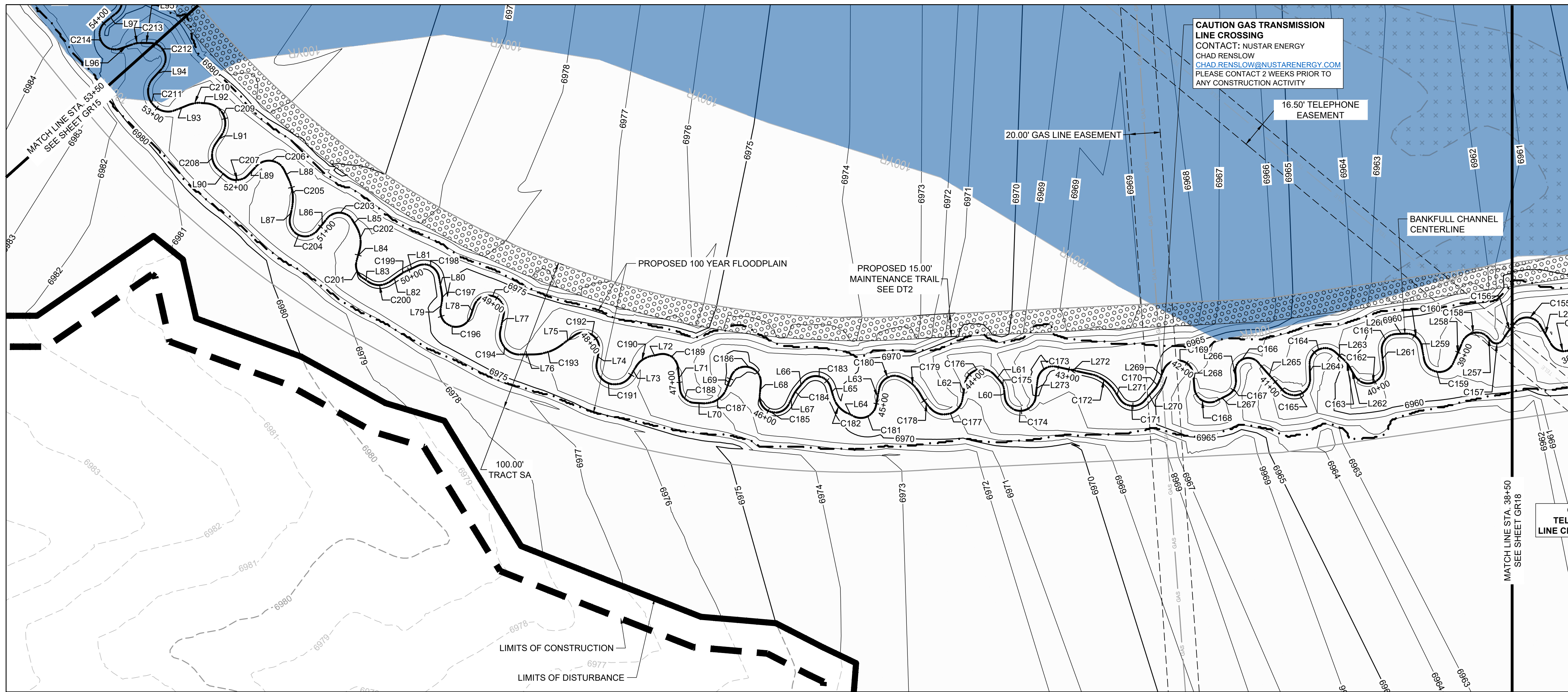




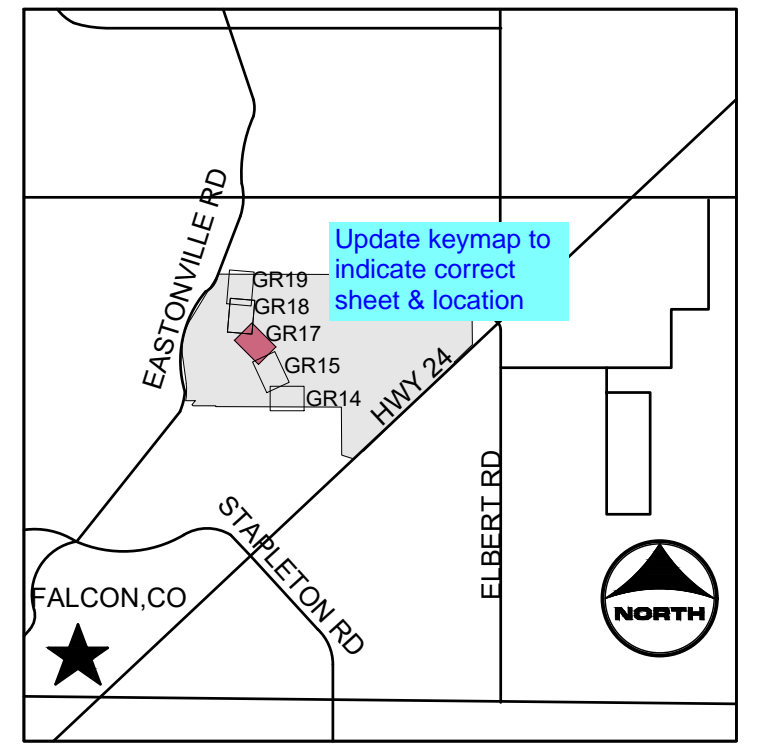








**CAUTION GAS TRANSMISSION LINE CROSSING**  
 CONTACT: NUSTAR ENERGY  
 CHAD RENSLAW  
 CHAD.RENSLOW@NUSTARENERGY.COM  
 PLEASE CONTACT 2 WEEKS PRIOR TO ANY CONSTRUCTION ACTIVITY



**KEYMAP**

**PROJECT LEGEND:**

- PROPERTY LINE
- EXISTING EASEMENT
- EXISTING GAS LINE
- EXISTING TELEPHONE LINE
- EXISTING FENCE LINE
- EXISTING SECTION LINE
- EXISTING SWALE
- EXISTING OVERHEAD ELECTRIC
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TRIBUTARY 2 UPSTREAM					TRIBUTARY 2 UPSTREAM					TRIBUTARY 2 UPSTREAM					TRIBUTARY 2 UPSTREAM					TRIBUTARY 2 UPSTREAM				
LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH	LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH	LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH	LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH	LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
C156	15.76	60.71	S82° 15' 15.94"W	15.72	L267	7.77		N72° 04' 21.48"W		C180	18.49	10.13	N71° 44' 52.25"W	16.03	C191	33.50	12.00	N24° 33' 51.04"W	23.63	C202	16.30	20.00	N36° 52' 50.66"E	15.85
C157	9.19	4.73	N48° 26' 22.95"W	7.81	L268	19.62	10.00	N15° 51' 06.52"W	16.62	L63	11.09		S55° 49' 10.23"W		L74	7.78		N55° 24' 57.68"E		L85	4.49		N13° 32' 20.24"E	
L257	3.58		N3° 04' 06.31"E		C168	8.77		N40° 02' 08.43"E		C181	18.28	10.00	N71° 48' 07.40"W	15.84	C192	23.85	10.00	N12° 54' 52.85"W	18.59	C203	19.05	10.00	N41° 02' 37.80"W	16.30
C158	19.37	10.00	N58° 30' 53.78"W	16.48	C169	26.96	10.00	N36° 52' 20.72"W	19.51	L64	4.96		N19° 25' 23.80"W		L75	10.97		N81° 14' 45.25"W		L86	10.38		S84° 22' 24.17"W	
L258	14.86		S68° 36' 16.40"W		L269	6.80		S65° 53' 08.80"W		C182	14.36	17.00	N4° 47' 00.04"E	13.94	C193	18.57	30.00	N63° 30' 39.38"W	18.28	C204	26.57	10.00	N19° 30' 04.19"W	19.42
C159	24.92	10.00	N36° 46' 43.51"W	18.95	C170	6.95	20.00	S75° 50' 02.38"W	6.91	L65	6.32		N28° 59' 23.88"E		L76	8.89		N45° 46' 33.52"W		L87	6.39		N56° 37' 27.46"E	
L259	8.54		N34° 36' 24.38"E		L270	9.62		S85° 46' 55.98"W		C183	21.42	10.00	N32° 22' 59.06"W	17.56	C194	23.32	13.00	N5° 36' 50.04"E	20.32	C205	19.50	30.00	N38° 00' 21.14"E	19.16
C160	14.25	10.00	N6° 12' 38.24"W	13.07	C171	18.49	10.00	N41° 14' 28.08"W	15.97	L66	6.17		S86° 14' 36.82"W		L77	10.63		N57° 00' 13.60"E		L88	6.02		N19° 23' 14.34"E	
L260	6.03		N47° 01' 39.20"W		L271	6.51		N11° 44' 07.86"E		C184	5.15	20.00	S78° 51' 55.74"W	5.14	C195	30.29	10.00	N29° 45' 29.57"W	19.97	C206	21.26	11.00	N35° 59' 34.23"W	18.10
C161	16.43	10.00	S85° 53' 35.89"W	14.65	C172	19.46	25.00	N10° 33' 42.42"W	18.97	L67	6.44		S71° 29' 13.91"W		L78	6.95		S63° 28' 48.34"W		L89	8.40		S88° 37' 37.20"W	
L261	9.89		S38° 48' 50.97"W		L272	22.46		N32° 51' 32.70"W		C185	27.69	10.00	N29° 11' 46.10"W	19.65	C196	29.92	10.00	N30° 47' 54.08"W	19.94	C207	14.93	10.00	N48° 36' 10.78"W	13.58
C162	27.21	10.00	N63° 13' 46.48"W	19.56	C173	16.69	10.00	N80° 40' 16.27"W	14.82	L68	7.92		N50° 07' 13.89"E		L79	4.15		N54° 55' 22.26"E		L90	6.08		N5° 49' 58.75"W	
L262	6.59		N14° 43' 35.02"E		L273	11.08		S51° 30' 58.83"W		C186	28.76	10.00	N32° 16' 01.93"W	19.82	C197	6.25	18.00	N44° 58' 12.97"E	6.22	C208	19.45	13.00	N37° 02' 16.06"E	17.69
C163	6.02	20.00	N6° 06' 03.29"E	6.00	C174	29.21	10.00	N44° 47' 38.64"W	19.88	L69	7.91		S65° 20' 42.25"W		L80	10.16		N35° 01' 04.53"E		L91	6.84		N79° 54' 30.86"E	
L263	7.20		N2° 31' 29.50"W		L60	4.58		N38° 53' 43.89"E		C187	19.07	15.00	N78° 14' 01.44"W	17.81	C198	18.41	10.00	N17° 43' 12.15"W	15.92	C209	27.37	13.00	N19° 35' 19.50"E	22.59
C164	23.46	10.00	N69° 43' 47.95"W	18.44	C175	6.28	10.00	N20° 54' 02.58"E	6.18	L70	5.88		N41° 48' 47.05"W		L81	8.03		N70° 27' 28.82"W		L92	3.27		N40° 43' 51.79"W	
L264	9.75		S43° 03' 53.60"W		L61	5.56		N2° 54' 21.27"E		C188	14.23	10.00	N1° 03' 38.55"W	13.06	C199	5.01	30.06	N75° 00' 38.36"W	5.00	C210	9.28	20.00	N54° 01' 48.85"W	9.20
C165	25.51	10.26	N64° 27' 12.24"W	19.43	C176	24.70	11.00	N61° 25' 29.35"W	19.83	L71	13.81		N39° 41' 29.96"E		L82	7.48		N79° 47' 19.86"W		L93	8.27		N67° 19' 45.91"W	
L265	24.22		N3° 28' 47.39"E		L62	10.86		S54° 14' 40.03"W		C189	16.83	10.01	N10° 00' 57.74"W	14.91	C200	14.10	12.00	N46° 07' 14.40"W	13.31	C211	35.19	13.00	N10° 12' 28.14"E	25.39
C166	20.88	8.44	N74° 30' 03.34"W	15.95	C177	24.08	11.98	N64° 32' 15.25"W	20.23	L72	6.19		N58° 12' 37.69"W		L83	4.63		N12° 27' 08.94"W		L94	7.78		N87° 44' 40.12"E	
L266	4.56		S41° 00' 17.45"W		C178	12.52	34.40	N7° 05' 18.27"E	12.45	C190	11.32	14.00	N81° 22' 38.72"W	11.02	C201	12.68	10.00	N23° 53' 06.07"E	11.85	C212	23.02	10.00	N21° 47' 21.49"E	18.26
C167	11.68	10.00	S74° 27' 57.98"W	11.03	C179	17.56	25.25	N2° 31' 20.35"W	17.21	L73	6.48		S75° 27' 20.25"W		L84	7.35		N60° 13' 21.09"E						

**NOTES:**

- BASIS OF BEARINGS: THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHWEST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, BEING ASSUMED TO BEAR NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST, A DISTANCE OF 5290.17 FEET.
- BENCHMARK:**  
 DESIGNATION = F 24  
 PID = JK0240  
 DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT  
 CONTROL POINT COORDINATE SYSTEM:  
 NAVD88  
 NORTHING: 1421049.80  
 EASTING: 3273631.55  
 ELEVATION: 6866.33

**811** UNCC CALL BEFORE YOU DIG  
 1-800-922-1987  
 Utility Notification Center of Colorado

**FLORIDA LICENSED PROFESSIONAL ENGINEER**  
 37081  
 2-04-23

DRAWN BY: ACH JOB DATE: 1/25/2024  
 APPROVED: GLP JOB NUMBER: 201662.03  
 CAD DATE: 1/26/2024  
 CAD FILE: J:\2020\201662.03\CAD\DWG\CIG\GRADING

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

NO.	DATE	BY	REVISION DESCRIPTION

**HRGreen**  
 HR GREEN - DENVER  
 5613 DTC PARKWAY SUITE 950  
 DENVER CO 80111  
 PHONE: 720.602.4999  
 FAX: 713.965.0044

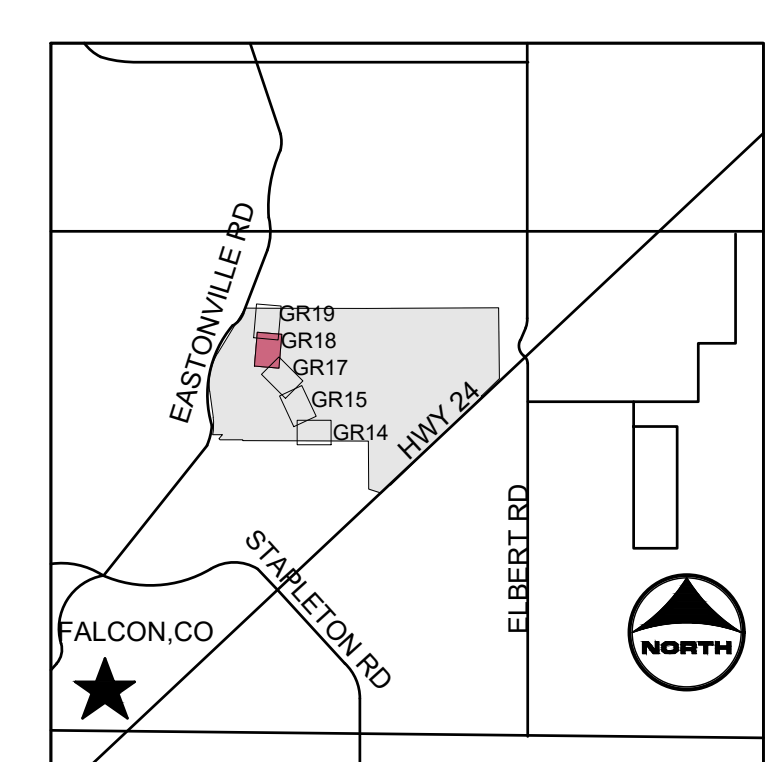
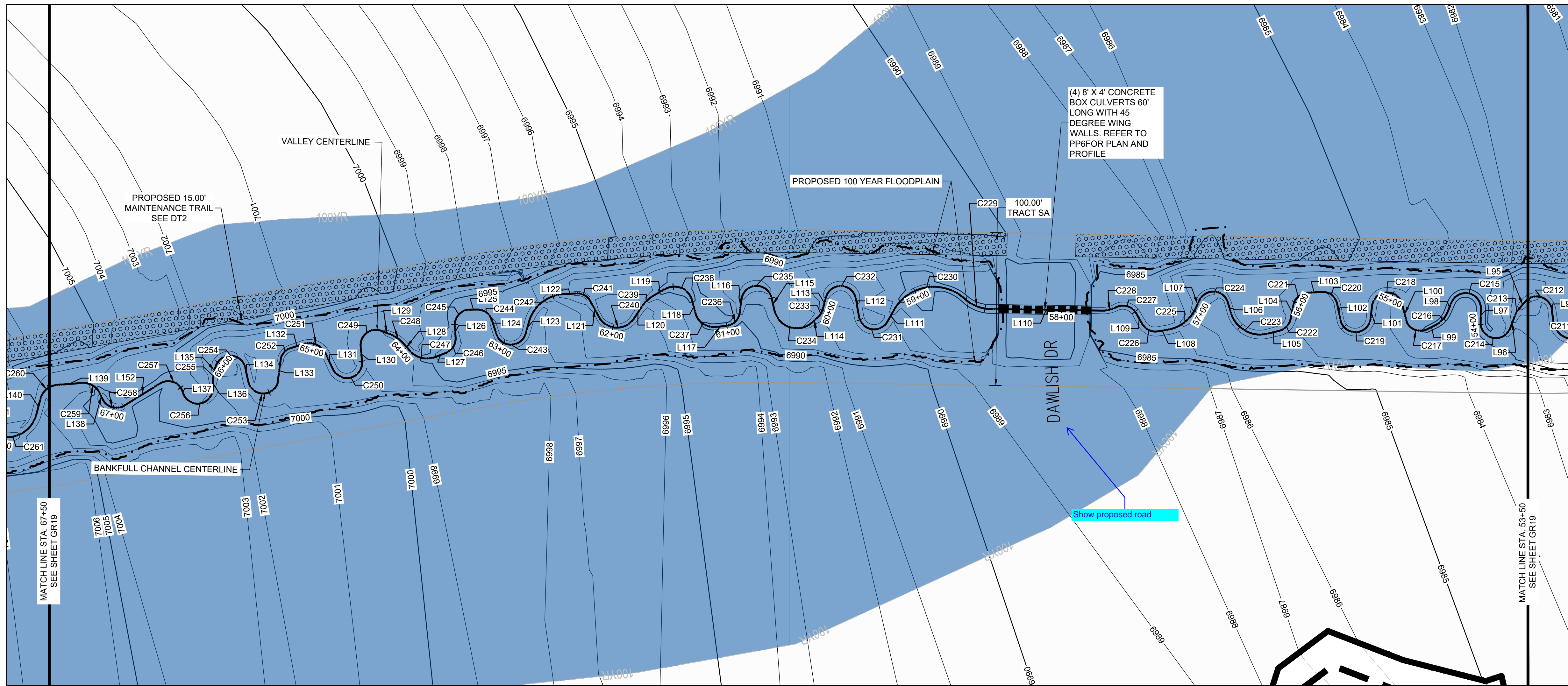
**GRANDVIEW RESERVE**  
**DR HORTON**  
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
 TRIBUTARY 2 BANKFULL GRADING

SHEET  
**GR17**  
 21



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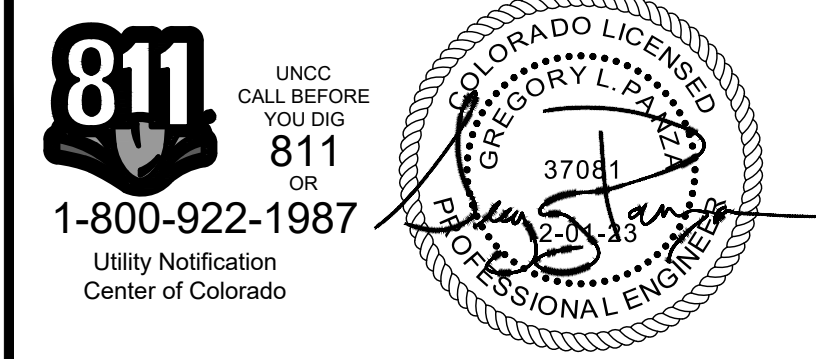
**PROJECT LEGEND:**

- PROPERTY LINE
- - - EXISTING EASEMENT
- - - EXISTING GAS LINE
- - - EXISTING TELEPHONE LINE
- X - X - X - EXISTING FENCE LINE
- - - EXISTING SECTION LINE
- - - EXISTING SWALE
- - - OHE EXISTING OVERHEAD ELECTRIC
- - - EXISTING TELEPHONE POLE
- - - EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- - - 5250 PROPOSED MAJOR CONTOUR
- - - PROPOSED MINOR CONTOUR
- FLOW ARROW
- - - PROPOSED 100-YR FLOODPLAIN
- - - LIMITS OF CONSTRUCTION
- - - LIMITS OF DISTURBANCE
- EFFECTIVE 100-YR FLOODPLAIN
- ⊕ EXISTING WETLANDS - JURISDICTIONAL
- ⊕ EXISTING WETLANDS - NONJURISDICTIONAL
- ⊕ PROPOSED MAINTENANCE TRAIL

TRIBUTARY 2 UPSTREAM					TRIBUTARY 2 UPSTREAM					TRIBUTARY 2 UPSTREAM					TRIBUTARY 2 UPSTREAM					TRIBUTARY 2 UPSTREAM				
LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH	LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH	LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH	LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH	LINE #/ CURVE#	LENGTH	RADIUS	LNE/CHORD DIRECTION	CHORD LENGTH
L95	5.17		N44° 09' 57.14"W		L106	6.69		N78° 59' 36.19"E		L116	8.98		N77° 32' 29.10"W		L127	7.41		N16° 10' 58.09"W		L152	27.44		N26° 46' 26.58"W	
C213	6.98	20.00	N54° 09' 33.54"W	6.94	C224	24.18	10.00	N9° 42' 54.27"E	18.71	C236	13.59	10.00	N38° 36' 17.81"W	12.57	C247	18.38	15.00	N18° 55' 33.27"E	17.25	C258	16.95	10.00	N21° 46' 36.50"E	14.99
L96	8.04		N64° 09' 09.93"W		L107	5.63		N59° 33' 47.65"W		L117	7.25		N0° 19' 53.48"E		L128	6.36		N54° 02' 04.63"E		L138	3.84		N70° 19' 39.57"E	
C214	28.01	10.00	N16° 04' 45.78"E	19.71	C225	24.74	25.02	N32° 09' 09.97"W	23.74	C237	16.68	12.00	N40° 09' 12.75"E	15.37	C248	9.39	20.00	N40° 35' 03.09"E	9.30	C259	14.65	12.00	N35° 21' 09.72"E	13.76
L97	9.02		S83° 41' 18.51"E		L108	6.03		N3° 48' 42.59"W		L118	8.96		N79° 58' 33.23"E		L129	7.15		N27° 08' 01.54"E		L139	16.46		N0° 22' 41.14"E	
C215	27.69	10.00	N16° 58' 58.63"E	19.65	C226	12.18	10.00	N31° 04' 04.22"E	11.44	C238	21.88	12.00	N27° 44' 22.92"E	18.97	C249	20.51	10.00	N31° 37' 14.85"W	17.10					
L98	7.09		N62° 20' 44.23"W		L109	7.66		N65° 56' 51.04"E		L119	8.16		N24° 29' 46.28"W		L130	9.76		S89° 37' 28.76"W						
C216	11.33	16.00	N42° 04' 06.40"W	11.09	C227	15.54	10.00	N21° 25' 50.86"E	14.02	C239	11.91	25.00	N38° 08' 52.11"W	11.80	C250	27.90	10.00	N10° 27' 09.67"W	19.69					
L99	6.19		N21° 47' 27.14"W		C228	9.09	18.00	N8° 36' 52.18"W	9.00	L120	7.82		N51° 47' 57.21"W		L131	11.50		N69° 28' 12.96"E						
C217	15.51	10.00	N22° 38' 51.73"E	14.00	L110	73.49		N5° 51' 24.97"E		C240	26.65	13.48	N1° 49' 28.09"E	22.51	C251	17.33	12.00	N28° 06' 25.18"E	15.86					
L100	11.78		N80° 12' 45.19"E		C229	18.19	25.00	N26° 42' 11.88"E	17.79	L121	15.08		N66° 02' 17.32"E		L132	8.67		N13° 15' 22.59"W						
C218	28.61	10.00	N3° 46' 45.22"E	19.80	C230	54.03	30.00	N4° 02' 38.02"W	47.02	C241	9.50	10.00	N29° 12' 46.81"E	9.14	C252	9.13	10.00	N39° 24' 31.73"W	8.82					
L101	8.42		N78° 10' 24.49"W		L111	8.57		N55° 38' 14.84"W		L122	8.34		N2° 00' 28.98"E		L133	17.18		N77° 27' 43.71"W						
C219	28.24	10.00	N2° 43' 43.88"E	19.75	C231	24.53	10.00	N14° 38' 23.93"E	18.83	C242	31.18	25.00	N33° 43' 31.88"W	29.20	C253	25.62	10.00	N9° 01' 06.61"E	19.17					
L102	10.54		N83° 37' 52.24"E		L112	12.12		N84° 55' 01.43"E		L123	7.80		N69° 27' 32.74"W		L134	9.39		N82° 24' 48.02"E						
C220	14.48	10.00	N42° 08' 43.05"E	13.25	C232	26.99	10.00	N7° 35' 33.85"E	19.51	C243	25.58	10.00	N3° 49' 59.88"E	19.16	C254	26.62	10.00	N6° 09' 26.70"E	19.43					
L103	9.11		N0° 39' 32.79"E		L113	8.04		N69° 43' 52.36"W		L124	9.62		N77° 07' 32.51"E		L135	4.72		N70° 05' 54.62"W						
C221	12.97	10.00	N36° 30' 06.87"W	12.08	C233	6.99	12.00	N53° 02' 49.83"W	6.89	C244	12.73	10.00	N40° 39' 52.64"E	11.89	C255	2.40	10.00	N76° 59' 14.73"W	2.40					
L104	9.22		N73° 39' 45.15"W		L114	4.55		N36° 21' 48.50"W		L125	4.77		N4° 12' 10.94"E		L136	7.28		N83° 52' 34.84"W						
C222	11.31	10.00	N41° 16' 14.49"W	10.71	C234	31.01	15.00	N22° 51' 23.94"E	25.77	C245	16.25	10.00	N42° 20' 24.85"W	14.52	C256	28.51	10.00	N2° 12' 50.31"W	19.79					
L105	7.94		N8° 52' 43.84"W		L115	8.57		N82° 04' 36.38"E		L126	7.68		N88° 53' 00.63"W		L137	0.10		N79° 26' 54.22"E						
C223	30.67	20.00	N35° 03' 26.18"E	27.75	C235	27.86	10.00	N2° 16' 03.64"E	19.68	C246	12.69	10.00	N52° 31' 59.36"W	11.85	C257	18.54	10.00	N26° 20' 13.82"E	16.00					

**NOTES:**

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- BENCHMARK: DESIGNATION = F 24  
PID = JK0240  
DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT  
CONTROL POINT COORDINATE SYSTEM: NAVD88  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33



DRAWN BY: ACH      JOB DATE: 1/25/2024      BAR IS ONE INCH ON OFFICIAL DRAWINGS.  
 APPROVED: GLP      JOB NUMBER: 201662.03      0" = 1"  
 CAD DATE: 1/26/2024      IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.  
 CAD FILE: J:\2020\201662.03\CAD\DWG\CIG\GRADING

NO.	DATE	BY	REVISION DESCRIPTION

**HRGreen**  
 HR GREEN - DENVER  
 5613 DTC PARKWAY SUITE 950  
 DENVER CO 80111  
 PHONE: 720.602.4999  
 FAX: 713.965.0044

**GRANDVIEW RESERVE  
 DR HORTON**  
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
 TRIBUTARY 2 BANKFULL GRADING

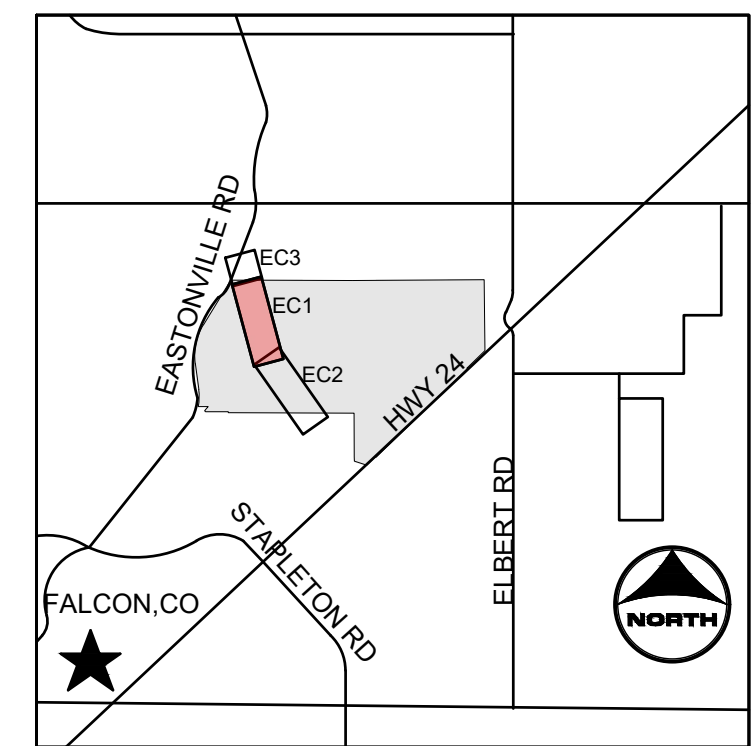
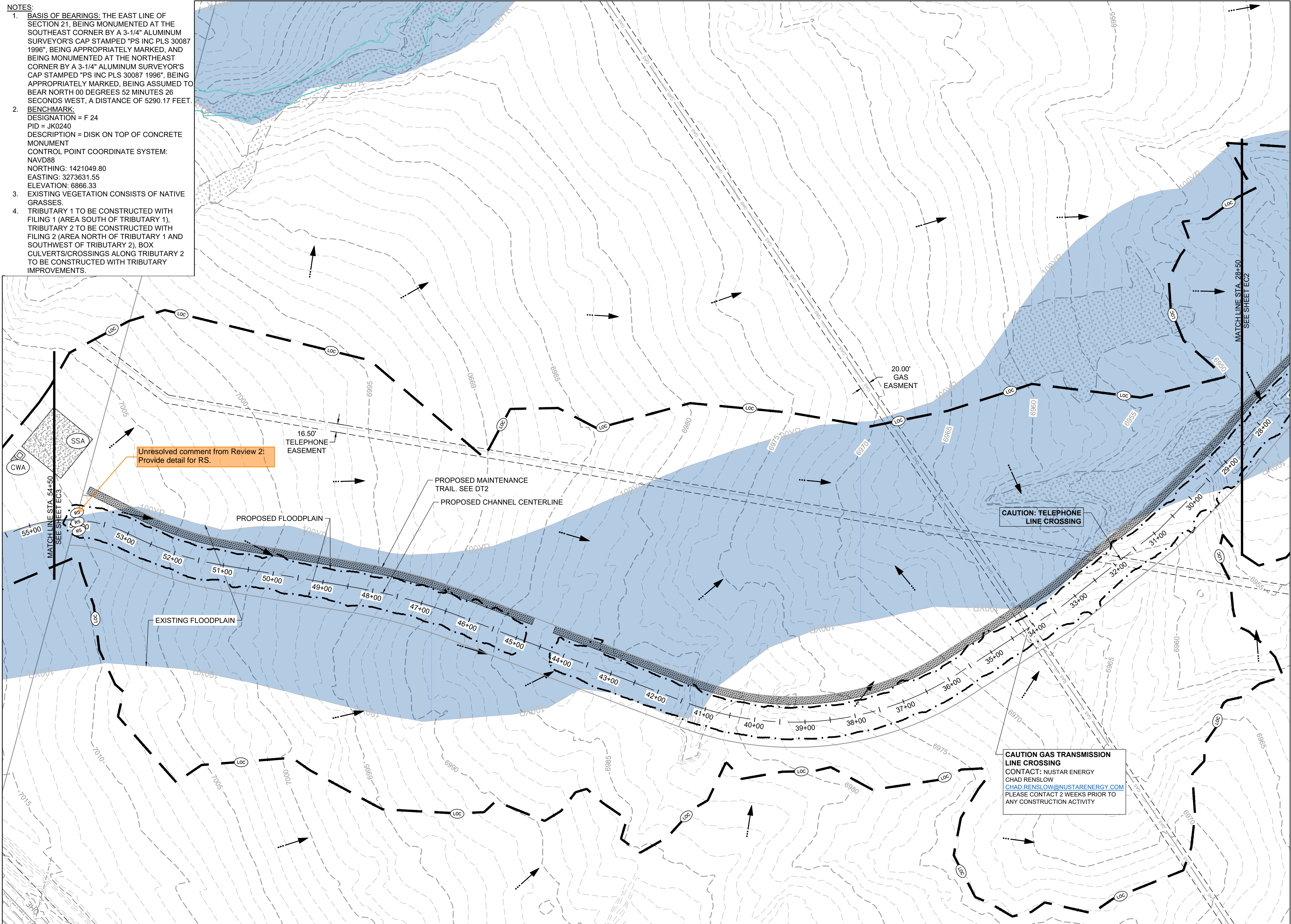
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**GR18**  
 22







- NOTES:**
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 NORTHING: 1421049.80  
 EASTING: 3273631.55  
 ELEVATION: 6866.33
  - EXISTING VEGETATION CONSISTS OF NATIVE GRASSES.
  - TRIBUTARY 1 TO BE CONSTRUCTED WITH FILING 1 (AREA SOUTH OF TRIBUTARY 1), TRIBUTARY 2 TO BE CONSTRUCTED WITH FILING 2 (AREA NORTH OF TRIBUTARY 1 AND SOUTHWEST OF TRIBUTARY 2), BOX CULVERTS/CROSSINGS ALONG TRIBUTARY 2 TO BE CONSTRUCTED WITH TRIBUTARY IMPROVEMENTS.



**KEYMAP**

- PROJECT LEGEND:**
- PROPERTY LINE
  - EXISTING EASEMENT
  - EXISTING GAS LINE
  - EXISTING TELEPHONE LINE
  - EXISTING FENCE LINE
  - EXISTING SECTION LINE
  - EXISTING SWALE
  - EXISTING OVERHEAD ELECTRIC
  - EXISTING TELEPHONE POLE
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  - PROPOSED 100-YR FLOODPLAIN
  - EXISTING 100-YR FLOODPLAIN
  - EXISTING WETLANDS - JURISDICTIONAL
  - EXISTING WETLANDS - NONJURISDICTIONAL
  - PROPOSED MAINTENANCE TRAIL

Not seen on plans. Is there a location that would be appropriate or will there be VTCs elsewhere in F1 & F2? Show on plans or add a note of VTC location(s) if off of plan limits.

- BMP LEGEND:**
- CWA CONCRETE WASHOUT AREA
  - SF SILT FENCE
  - VTC VEHICLE TRACKING CONTROL
  - SSA STABILIZED STAGING AREA
  - LOC LIMITS OF CONSTRUCTION
  - CD CHECK DAM
  - RS ROCK SOCK

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 811 OR 1-800-922-1987  
 Utility Notification Center of Colorado

PROFESSIONAL ENGINEER  
 GREGORY L. PACE  
 37081

DRAWN BY: ACH	JOB DATE: 1/25/2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: GLP	JOB NUMBER: 201662.03	IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD DATE: 1/26/2024		
CAD FILE: J:\2020\201662.03\CAD\Drawings\INITIAL EROSION CONTROL		

NO.	DATE	BY	REVISION DESCRIPTION

**HRGreen**  
 HR GREEN - DENVER  
 5613 DTC PARKWAY SUITE 950  
 DENVER CO 80111  
 PHONE: 720.602.4999  
 FAX: 713.965.0044

**GRANDVIEW RESERVE**  
**DR HORTON**  
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
 INITIAL EROSION CONTROL

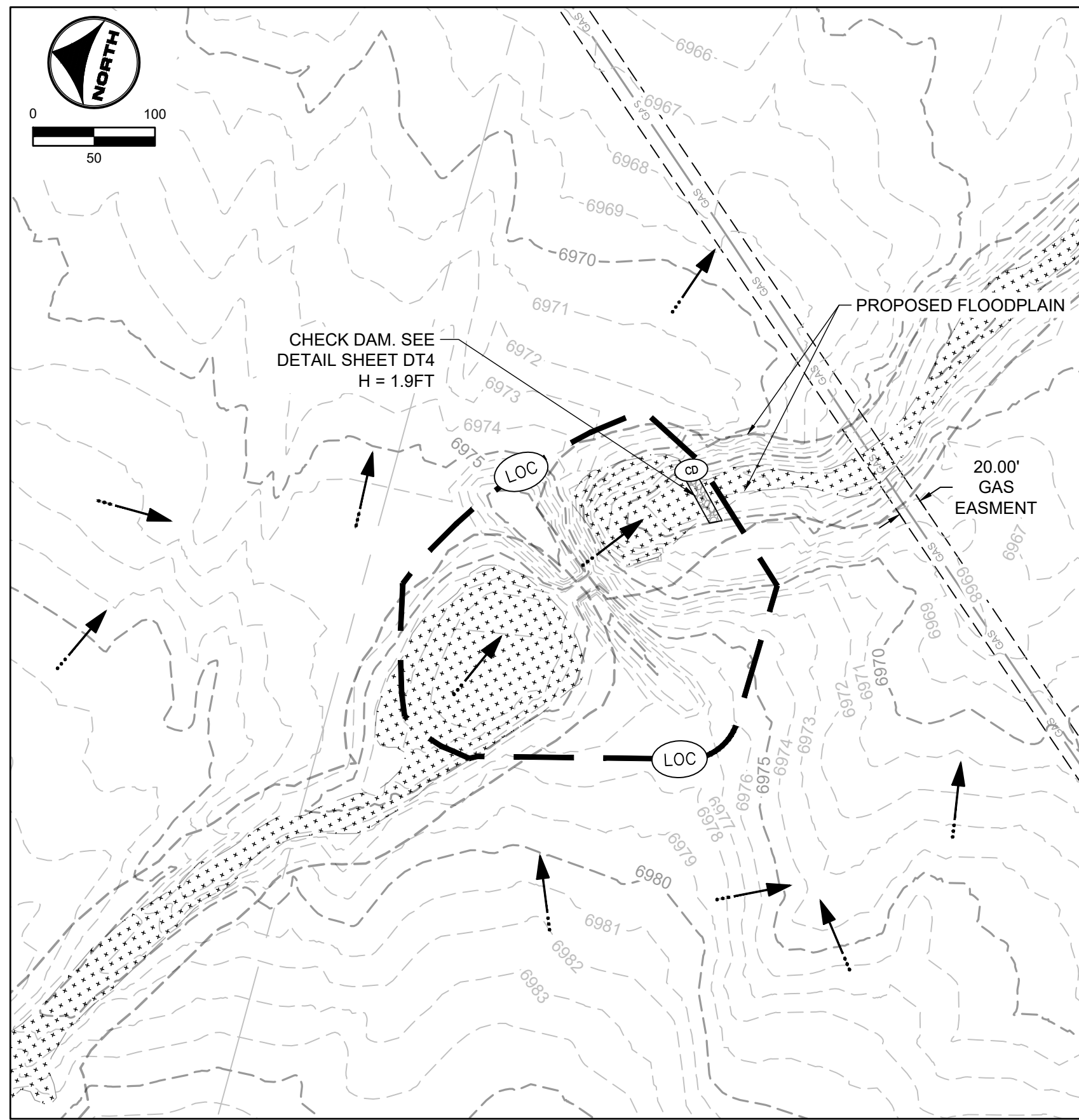
SHEET  
**EC1**  
 24

HR GREEN Xps; jgl; 1-0101; INITIAL EROSION CONTROL; KEY: 01-XC-INITIAL\_EC; 01-XC-PR\_100YR\_FP\_DELINEATION; uc-channel; v-d-dgn; 662; x=ull; 662; v=arrow; 662

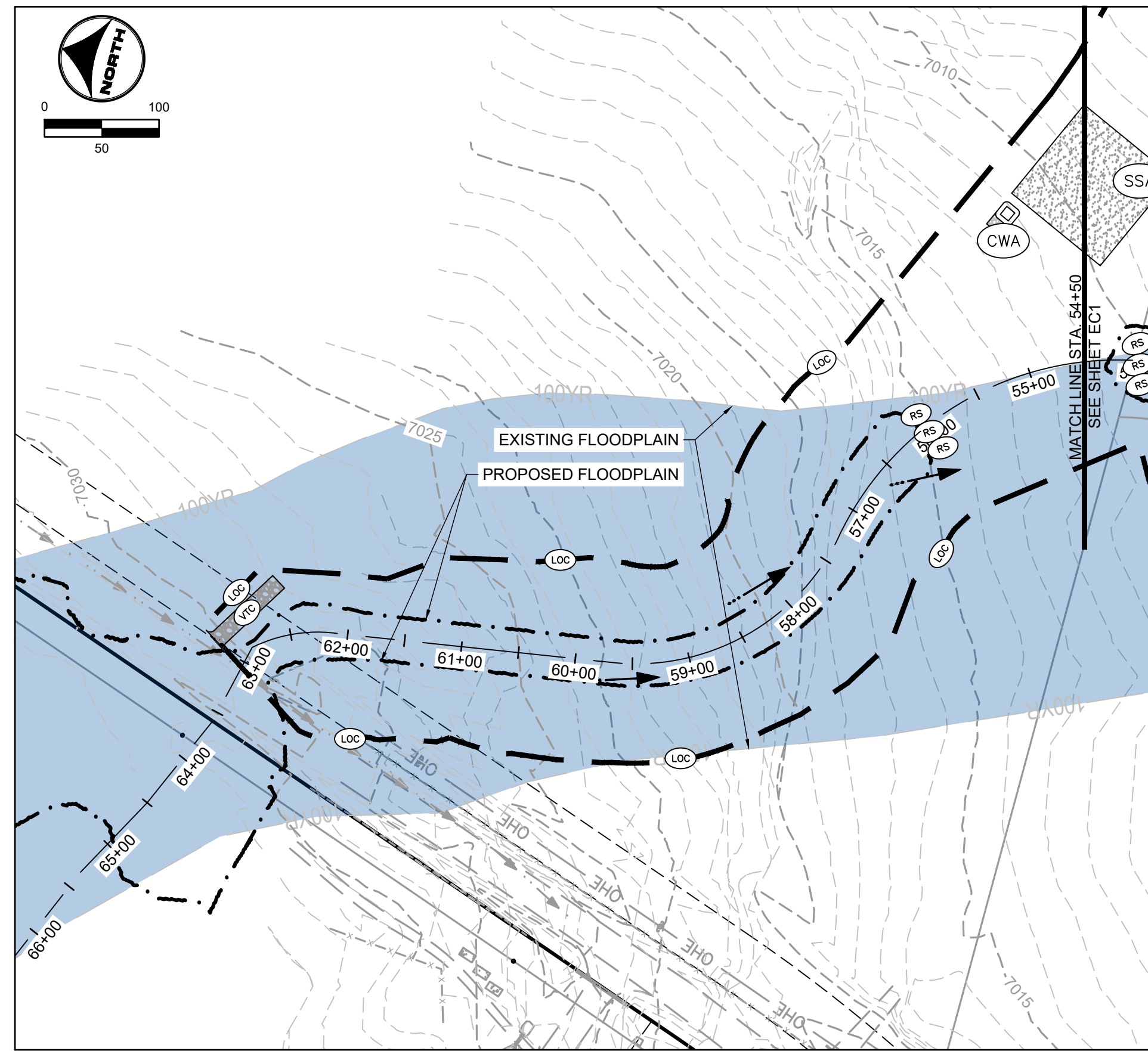




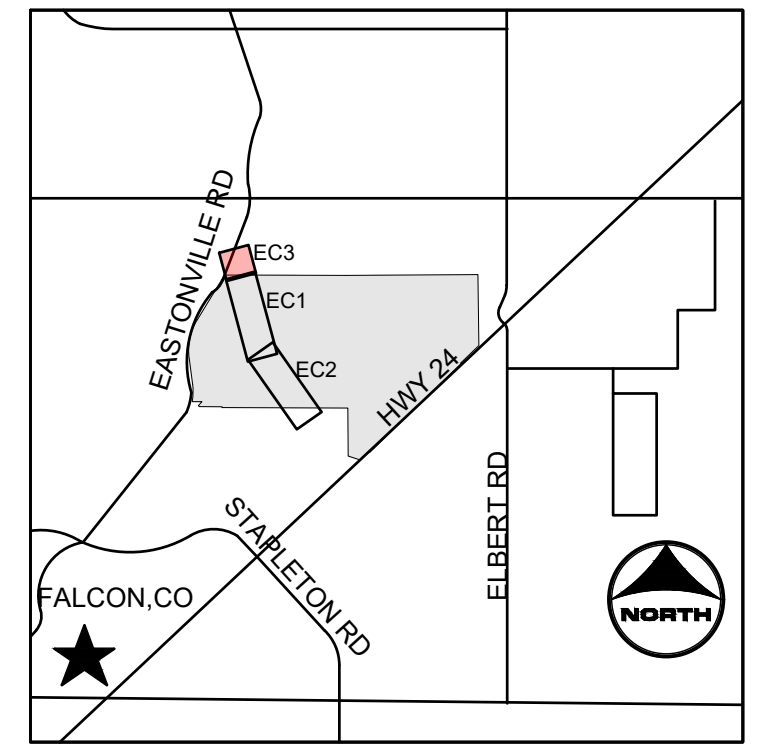




TRIBUTARY 1



TRIBUTARY 2



KEYMAP

- PROJECT LEGEND:**
- — — — — PROPERTY LINE
  - - - - - EXISTING EASEMENT
  - GAS — EXISTING GAS LINE
  - TELE — EXISTING TELEPHONE LINE
  - X - X - X - EXISTING FENCE LINE
  - - - - - EXISTING SECTION LINE
  - - - - - EXISTING SWALE
  - OHE — EXISTING OVERHEAD ELECTRIC
  - TELEPOLE — EXISTING TELEPHONE POLE
  - - - - - EXISTING MAJOR CONTOUR
  - - - - - EXISTING MINOR CONTOUR
  - 5250 — PROPOSED MAJOR CONTOUR
  - - - - - PROPOSED MINOR CONTOUR
  - — — — — FLOW ARROW
  - - - - - PROPOSED 100-YR FLOODPLAIN
  - EXISTING 100-YR FLOODPLAIN
  - EXISTING WETLANDS - JURISDICTIONAL
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  - PROPOSED MAINTENANCE TRAIL

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  - X - SF SILT FENCE
  - VTC VEHICLE TRACKING CONTROL
  - SSA STABILIZED STAGING AREA
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 811 OR 1-800-922-1987  
 Utility Notification Center of Colorado

DRAWN BY: ACH JOB DATE: 1/25/2024  
 APPROVED: GLP JOB NUMBER: 201662.03  
 CAD DATE: 1/26/2024  
 CAD FILE: J:\2020\201662.03\CAD\DWGS\C\INITIAL EROSION CONTROL

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

**HRGreen** HR GREEN - DENVER  
 5613 DTC PARKWAY SUITE 950  
 DENVER CO 80111  
 PHONE: 720.602.4999  
 FAX: 713.965.0044

**GRANDVIEW RESERVE**  
**DR HORTON**  
 FALCON, COLORADO

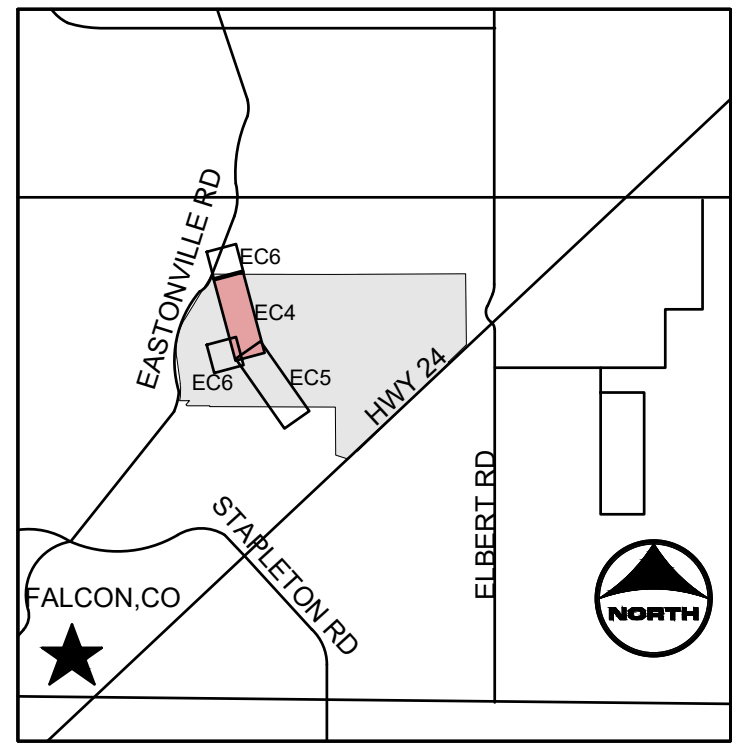
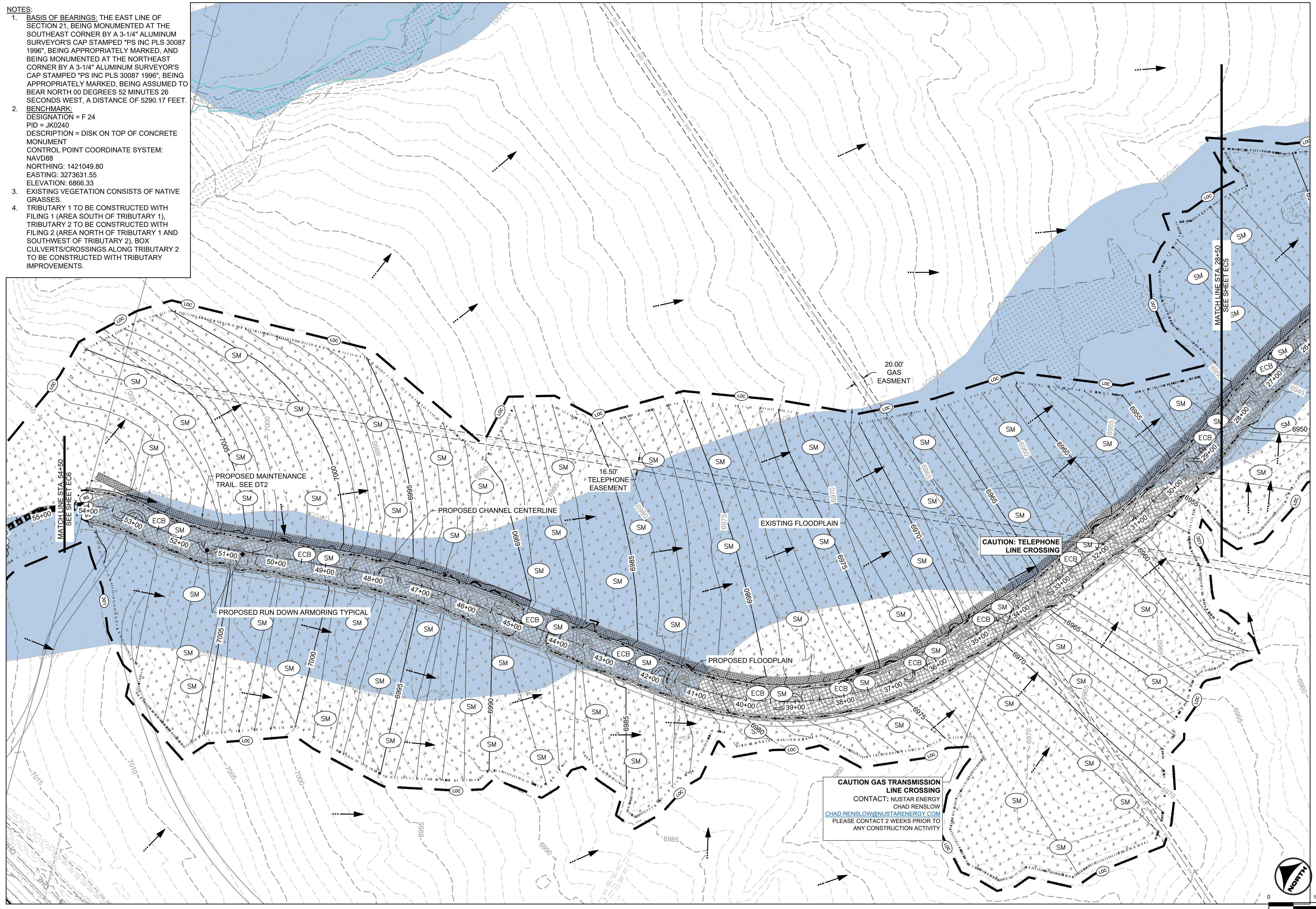
CONSTRUCTION DOCUMENTS  
 INITIAL EROSION CONTROL

SHEET  
**EC3**  
 26

HR GREEN \xref: xref-dh01: INITIAL EROSION CONTROL (REV: 01-XC-PR-100YR-FP-DELIN-ECTION: xc-channel: xv-align: 662: xv-ull: 662: xv-row: 682)



NOTES:  
 1. BASIS OF BEARINGS: THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, BEING ASSUMED TO BEAR NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST, A DISTANCE OF 5290.17 FEET.  
 2. BENCHMARK:  
 DESIGNATION = F 24  
 PID = JK0240  
 DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT  
 CONTROL POINT COORDINATE SYSTEM:  
 NAVD88  
 NORTING: 1421049.80  
 EASTING: 3273631.55  
 ELEVATION: 6866.33  
 3. EXISTING VEGETATION CONSISTS OF NATIVE GRASSES.  
 4. TRIBUTARY 1 TO BE CONSTRUCTED WITH FILING 1 (AREA SOUTH OF TRIBUTARY 1), TRIBUTARY 2 TO BE CONSTRUCTED WITH FILING 2 (AREA NORTH OF TRIBUTARY 1 AND SOUTHWEST OF TRIBUTARY 2), BOX CULVERTS/CROSSINGS ALONG TRIBUTARY 2 TO BE CONSTRUCTED WITH TRIBUTARY IMPROVEMENTS.



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
  - - - EXISTING EASEMENT
  - GAS --- EXISTING GAS LINE
  - TELE --- EXISTING TELEPHONE LINE
  - X - X - X - EXISTING FENCE LINE
  - - - EXISTING SECTION LINE
  - SWALE --- EXISTING SWALE
  - OHE --- EXISTING OVERHEAD ELECTRIC
  - TELE --- EXISTING TELEPHONE POLE
  - - - 5250 --- EXISTING MAJOR CONTOUR
  - - - 5250 --- EXISTING MINOR CONTOUR
  - - - 5250 --- PROPOSED MAJOR CONTOUR
  - - - 5250 --- PROPOSED MINOR CONTOUR
  - FLOW ARROW --- FLOW ARROW
  - PROPOSED 100-YR FLOODPLAIN
  - EXISTING 100-YR FLOODPLAIN
  - EXISTING WETLANDS - JURISDICTIONAL
  - EXISTING WETLANDS - NONJURISDICTIONAL
  - PROPOSED MAINTENANCE TRAIL

- BMP LEGEND:**
- LOC --- LIMITS OF CONSTRUCTION
  - SM --- SEEDING AND MULCHING
  - ECB --- EROSION CONTROL BLANKET
  - RS --- ROCK SOCK

**CAUTION GAS TRANSMISSION LINE CROSSING**  
 CONTACT: NUSTAR ENERGY  
 CHAD RENSHAW  
[CHAD.RENSHAW@NUSTARENERGY.COM](mailto:CHAD.RENSHAW@NUSTARENERGY.COM)  
 PLEASE CONTACT 2 WEEKS PRIOR TO ANY CONSTRUCTION ACTIVITY

**CAUTION: TELEPHONE LINE CROSSING**

HR GREEN Xref: xref.dwg; 1/23/2024; FINAL EROSION CONTROL KEY: 01-XC-FINAL-EC-01-XC-PR-100YR\_PP\_DELINEATION; xc-channel; xv-diff; b62; x-row-862; xv-dgn; b62

DRAWN BY: ACH	JOB DATE: 1/23/2024	BAR IS ONE INCH ON OFFICIAL DRAWINGS: 0
APPROVED: GLP	JOB NUMBER: 201662.03	IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD DATE: 1/26/2024		
CAD FILE: J:\2020\201662.03\CAD\dwgs\C\FINAL EROSION CONTROL		

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**HRGreen**  
 HR GREEN - DENVER  
 5613 DTC PARKWAY SUITE 950  
 DENVER CO 80111  
 PHONE: 720.602.4999  
 FAX: 713.965.0044

**GRANDVIEW RESERVE**  
**DR HORTON**  
 FALCON, COLORADO

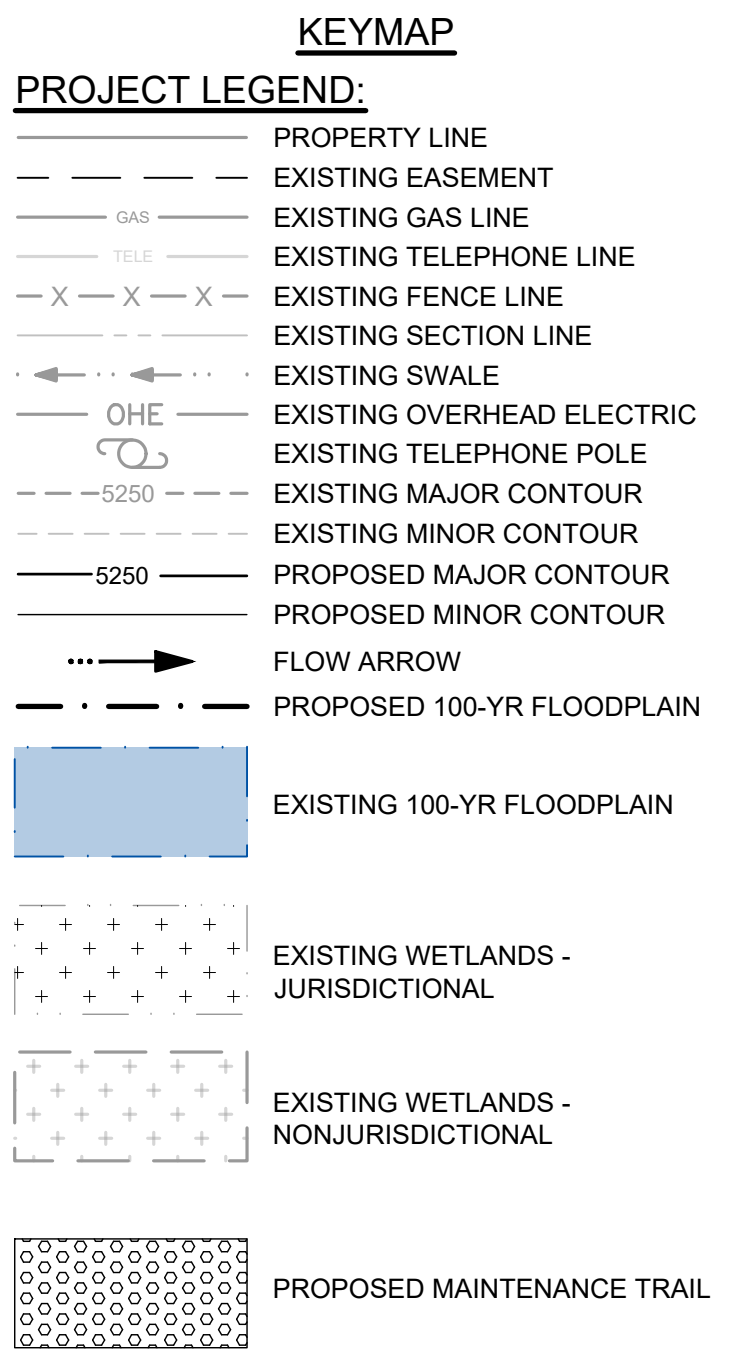
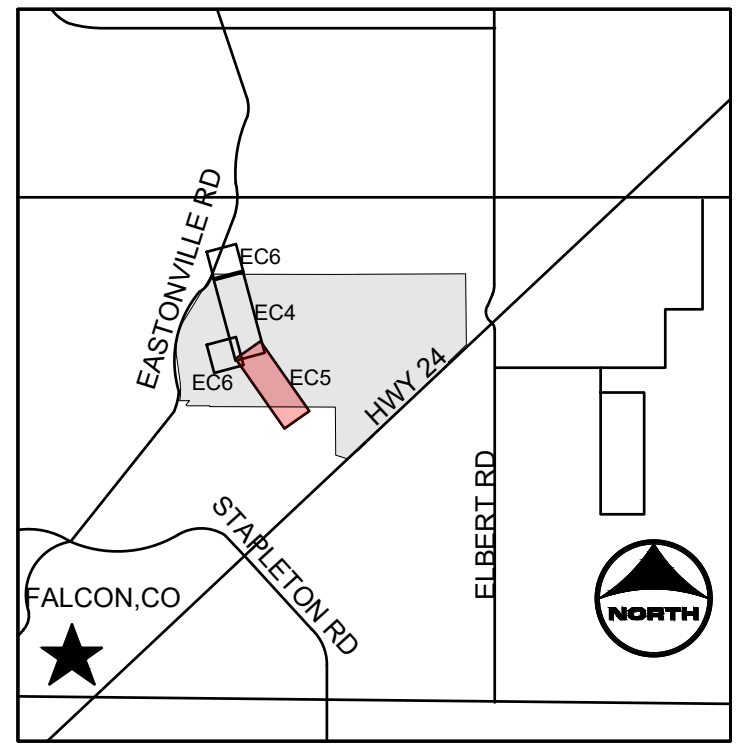
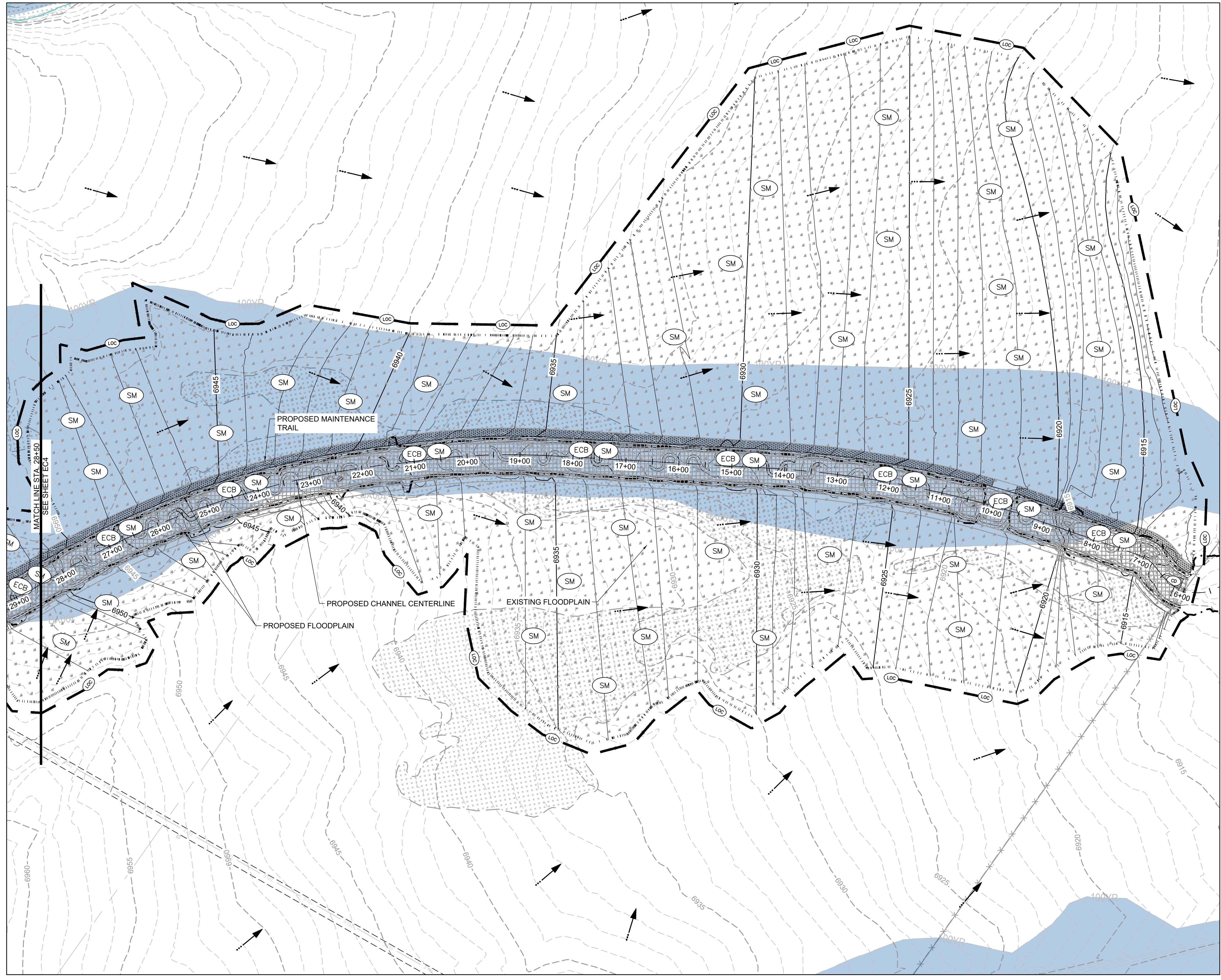
CONSTRUCTION DOCUMENTS  
 FINAL EROSION CONTROL

SHEET  
**EC4**  
 27

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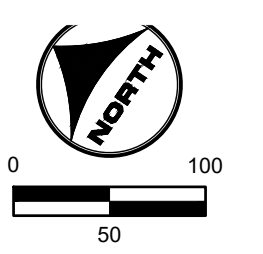
**PROFESSIONAL ENGINEER**  
 GREGORY L. PARKS  
 37081  
 17-26-22





**NOTES:**

- BASIS OF BEARINGS: THE EAST LINE OF SECTION 21, BEING MONUMENTED AT THE SOUTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, AND BEING MONUMENTED AT THE NORTHEAST CORNER BY A 3-1/4" ALUMINUM SURVEYOR'S CAP STAMPED "PS INC PLS 30087 1996", BEING APPROPRIATELY MARKED, BEING ASSUMED TO BEAR NORTH 00 DEGREES 52 MINUTES 26 SECONDS WEST, A DISTANCE OF 5290.17 FEET.
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DESIGNATION = F 24  
PID = JK0240  
DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT  
CONTROL POINT COORDINATE SYSTEM:  
NAVD83  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33
- EXISTING VEGETATION CONSISTS OF NATIVE GRASSES.
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FLORIDA LICENSED PROFESSIONAL ENGINEER  
GREGORY L. PARKS  
37081

DRAWN BY: ACH JOB DATE: 1/23/2024  
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5613 DTC PARKWAY SUITE 950  
DENVER CO 80111  
PHONE: 720.602.4999  
FAX: 713.965.0044

**GRANDVIEW RESERVE**  
**DR HORTON**  
FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
FINAL EROSION CONTROL

SHEET  
**EC5**  
28

HR GREEN \xbs\p\811\01\_FINAL EROSION CONTROL KEY: 01\_XC\FINAL-EC-01\_XC\_RIPRAP-01-XC-PR\_100YR\_PP\_DELINEATION\_xc-channel\_xv-diff\_862\_xv-row-862\_xv-dgn\_862



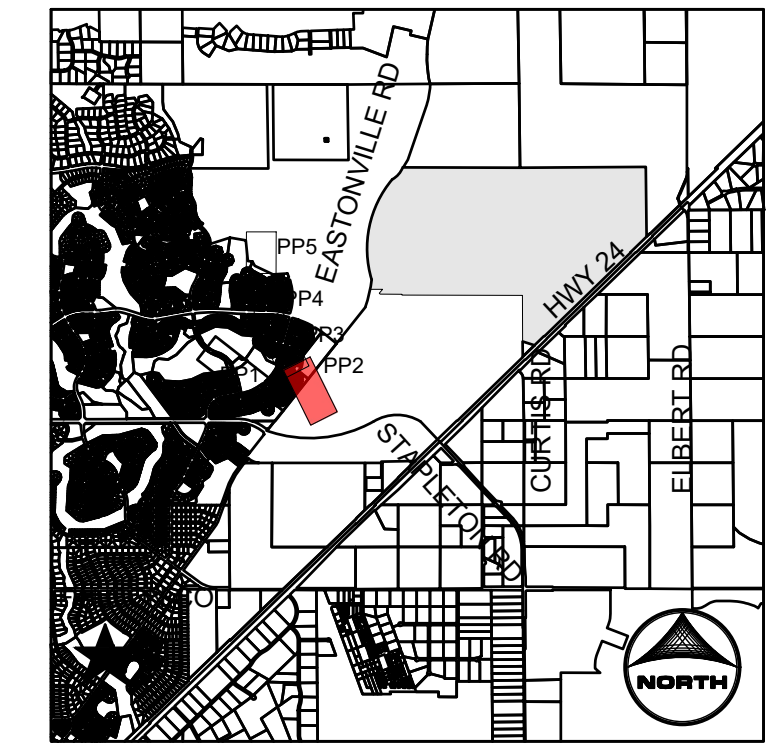
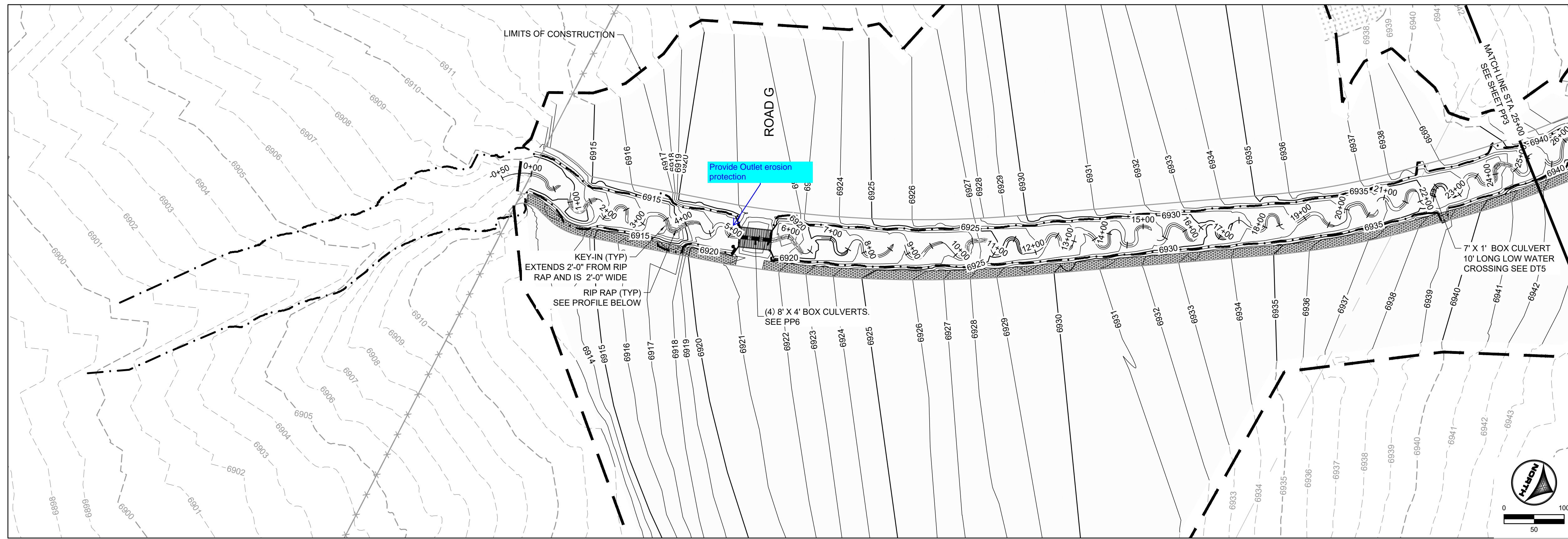




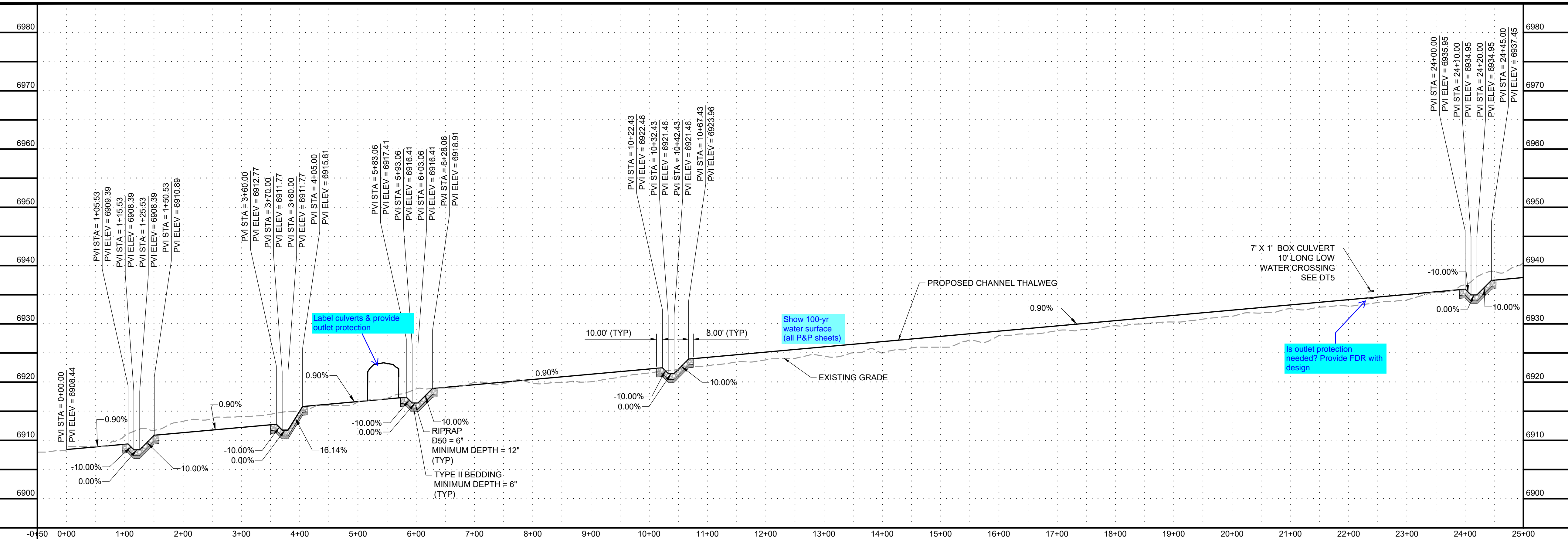




HR GREEN - DENVER 5613 DTC PARKWAY SUITE 950 DENVER CO 80111 PHONE: 720.602.4999 FAX: 713.965.0044



- PROJECT LEGEND:**
- PROPERTY LINE
  - - - EXISTING EASEMENT
  - - - EXISTING GAS LINE
  - - - EXISTING TELEPHONE LINE
  - X - X - X - EXISTING FENCE LINE
  - - - EXISTING SECTION LINE
  - - - EXISTING SWALE
  - - - EXISTING OVERHEAD ELECTRIC
  - - - EXISTING TELEPHONE POLE
  - - - EXISTING MAJOR CONTOUR
  - - - EXISTING MINOR CONTOUR
  - - - PROPOSED MAJOR CONTOUR
  - - - PROPOSED MINOR CONTOUR
  - FLOW ARROW
  - LIMITS OF CONSTRUCTION
  - - - PROPOSED 100-YR FLOODPLAIN
  - + + + EXISTING WETLANDS - JURISDICTIONAL
  - + + + EXISTING WETLANDS - NONJURISDICTIONAL
  - ○ ○ ○ ○ PROPOSED MAINTENANCE TRAIL



Add blue hatching back in for effective 100-yr floodplain, as used on previous submittal (all P&P sheets)

- NOTES:**
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NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33
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  4. PLAN SET APPROVAL APPLIES TO THE LIMITS OF CONSTRUCTION. PLEASE SEE GRANDVIEW FILING NUMBER 1 PLAN SET FOR GRADING OUTSIDE OF THE CHANNEL LIMITS OF CONSTRUCTION.
  5. TRIBUTARY 1 TO BE CONSTRUCTED WITH FILING 1 (AREA SOUTH OF TRIBUTARY 1). TRIBUTARY 2 TO BE CONSTRUCTED WITH FILING 2 (AREA NORTH OF TRIBUTARY 1 AND SOUTHWEST OF TRIBUTARY 2). BOX CULVERTS/CROSSINGS ALONG TRIBUTARY 2 TO BE CONSTRUCTED WITH TRIBUTARY IMPROVEMENTS.

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 HR GREEN - DENVER  
 5613 DTC PARKWAY SUITE 950  
 DENVER CO 80111  
 PHONE: 720.602.4999  
 FAX: 713.965.0044

**GRANDVIEW RESERVE**  
**DR HORTON**  
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
 DRAINAGE TRIBUTARY 2 PLAN AND PROFILE

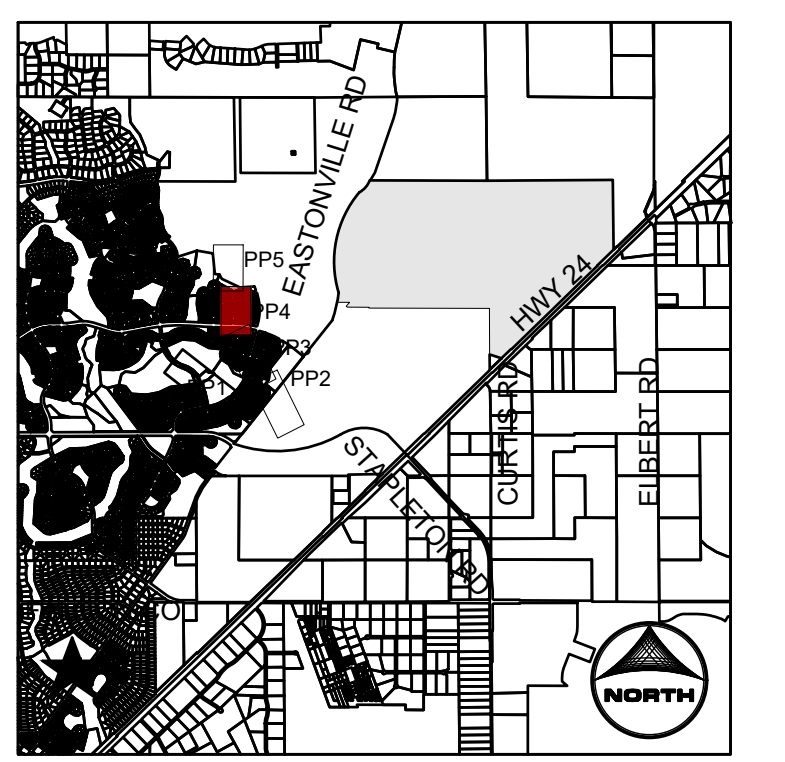
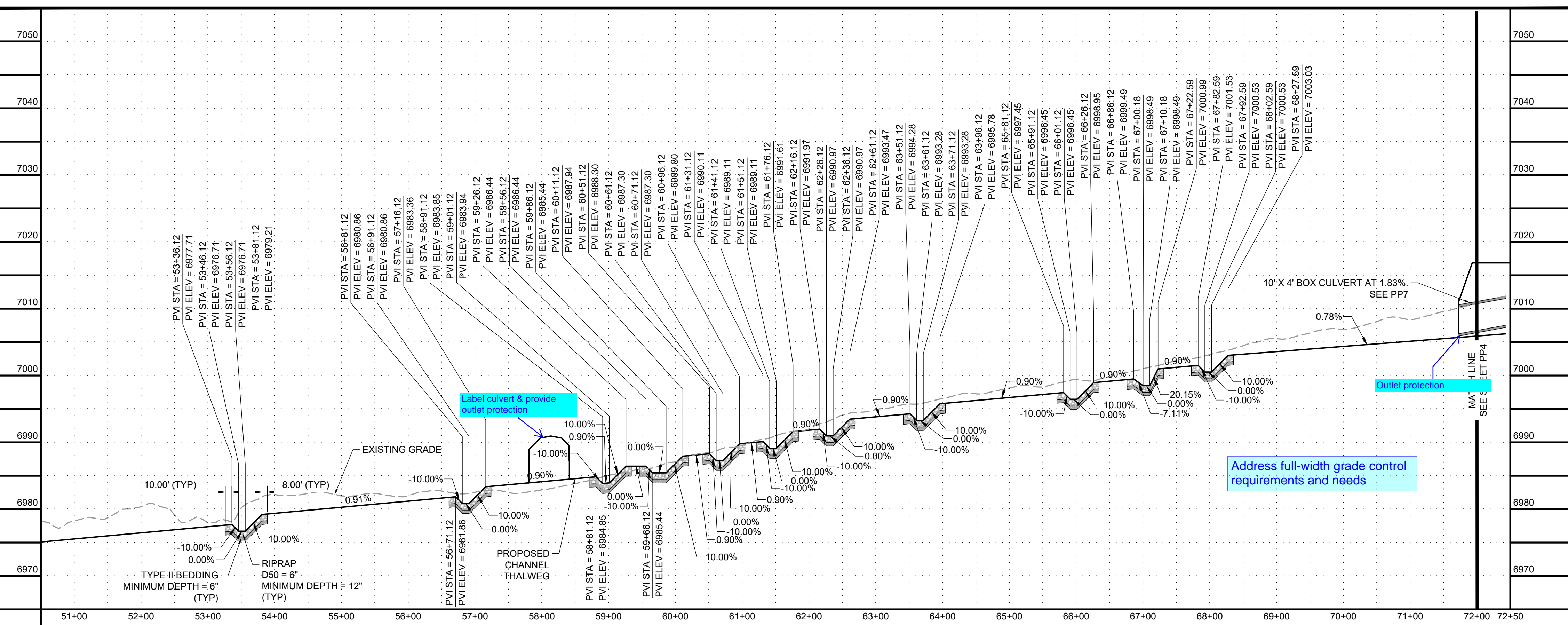
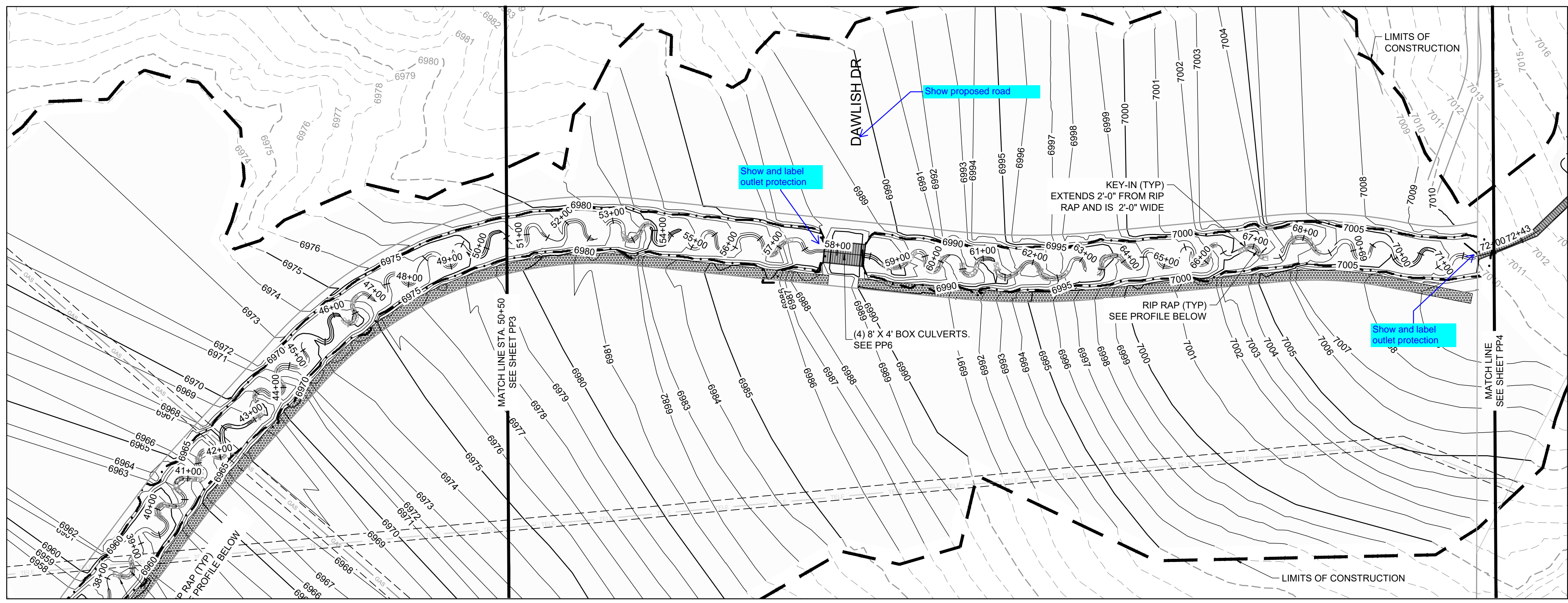
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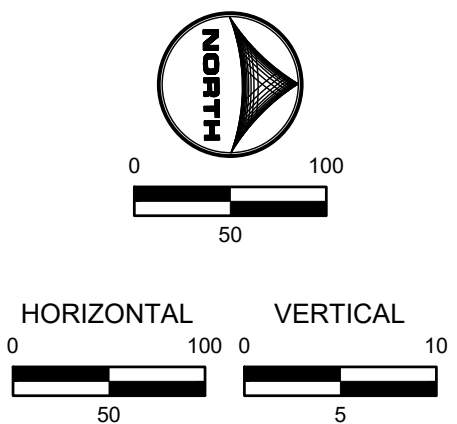


HR GREEN - DENVER 5613 DTC PARKWAY SUITE 950 DENVER CO 80111 PHONE: 720.602.4999 FAX: 713.965.0044



- PROJECT LEGEND:**
- PROPERTY LINE
  - EXISTING EASEMENT
  - EXISTING GAS LINE
  - EXISTING TELEPHONE LINE
  - X-X-X- EXISTING FENCE LINE
  - EXISTING SECTION LINE
  - EXISTING SWALE
  - OHE EXISTING OVERHEAD ELECTRIC
  - EXISTING TELEPHONE POLE
  - EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - 5250 PROPOSED MAJOR CONTOUR
  - 5250 PROPOSED MINOR CONTOUR
  - FLOW ARROW
  - LIMITS OF CONSTRUCTION
  - PROPOSED 100-YR FLOODPLAIN
  - EXISTING WETLANDS - JURISDICTIONAL
  - EXISTING WETLANDS - NONJURISDICTIONAL
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DESCRIPTION = DISK ON TOP OF CONCRETE MONUMENT  
CONTROL POINT COORDINATE SYSTEM: NAVD88  
NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33
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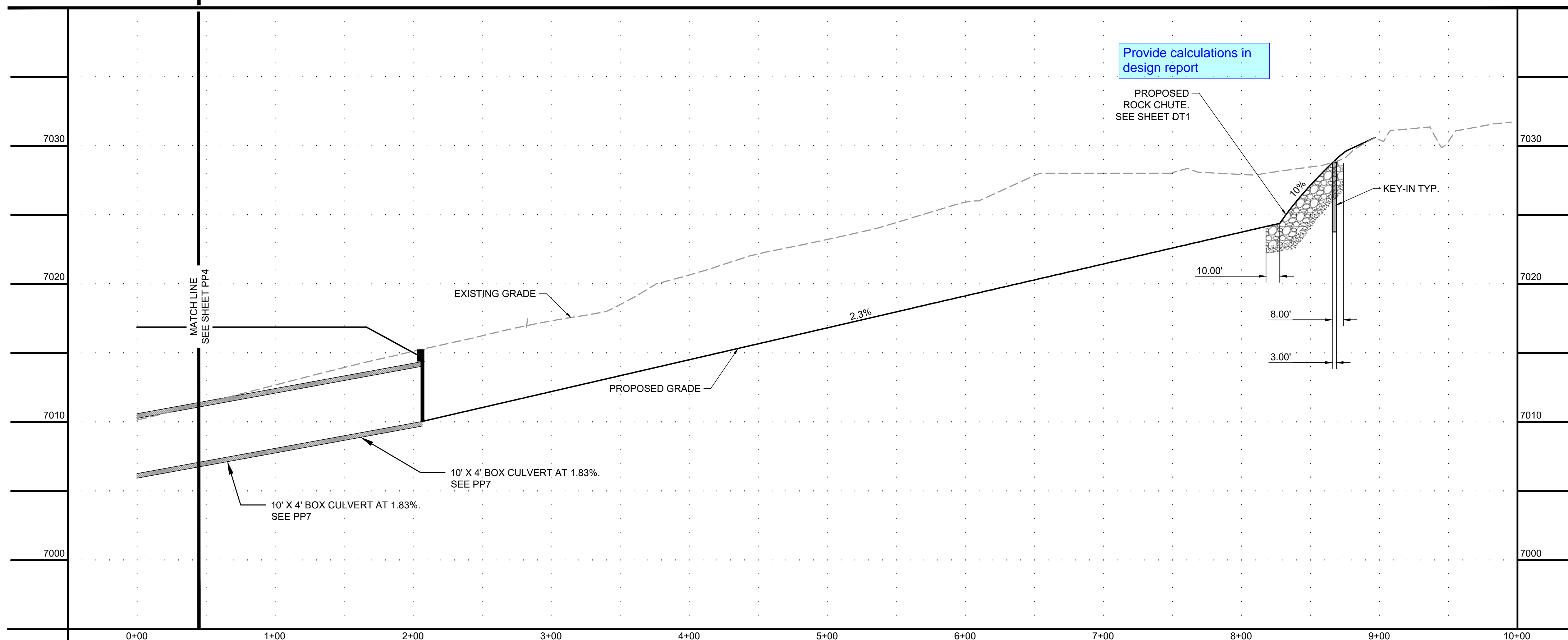
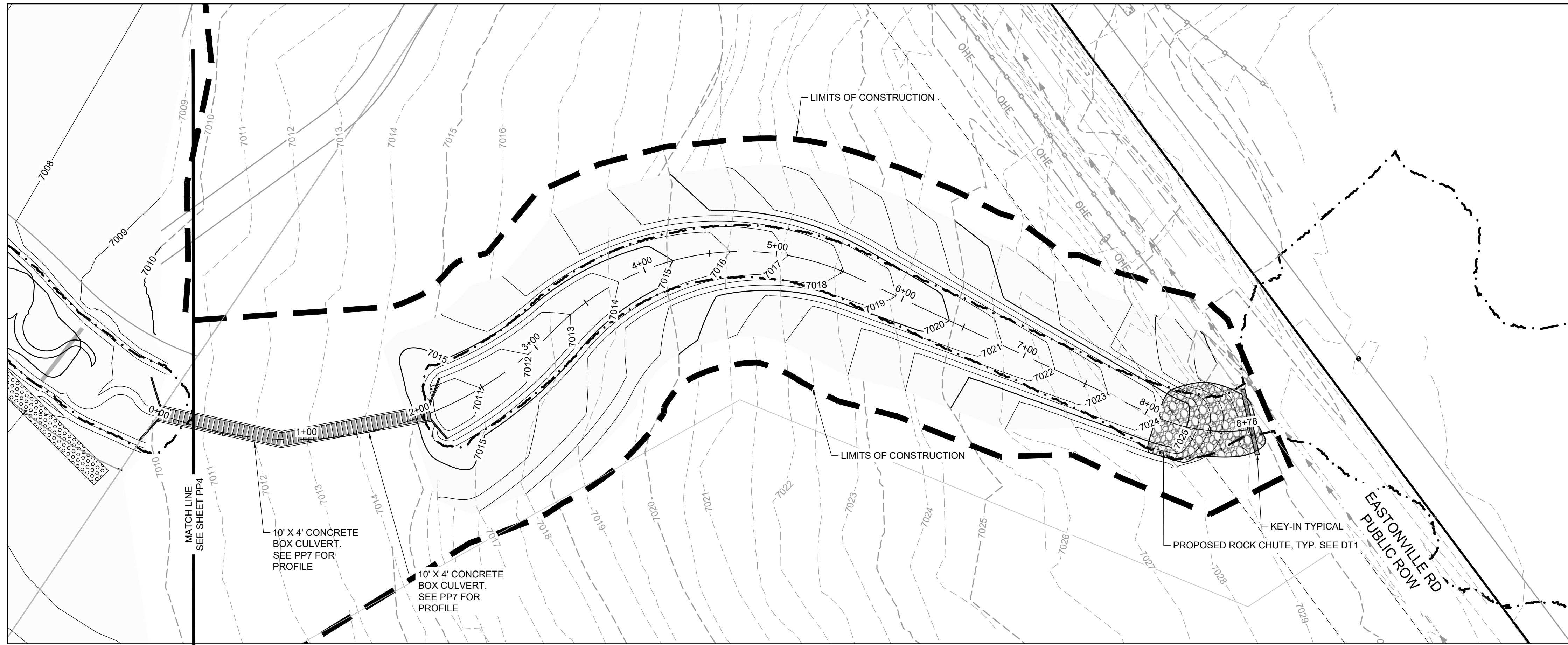
**GRANDVIEW RESERVE**  
**DR HORTON**  
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
 DRAINAGE TRIBUTARY 2 PLAN AND PROFILE

SHEET  
 PP4  
 33



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 DRAWN BY: TBI, JOB DATE: 1/23/2024, BAR IS ONE INCH ON OFFICIAL DRAWINGS, 0" = 1"  
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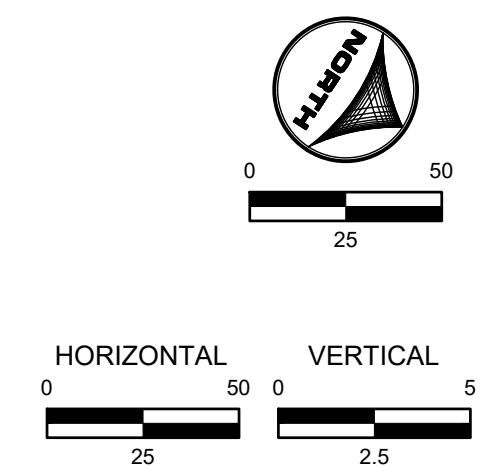


**KEYMAP**

**PROJECT LEGEND:**

- PROPERTY LINE
- - - EXISTING EASEMENT
- EXISTING GAS LINE
- EXISTING TELEPHONE LINE
- X - X - X - EXISTING FENCE LINE
- - - EXISTING SECTION LINE
- EXISTING SWALE
- OHE EXISTING OVERHEAD ELECTRIC
- EXISTING TELEPHONE POLE
- 5250 EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 5250 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- FLOW ARROW
- LIMITS OF CONSTRUCTION
- PROPOSED 100-YR FLOODPLAIN
- EXISTING WETLANDS - JURISDICTIONAL
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 37081  
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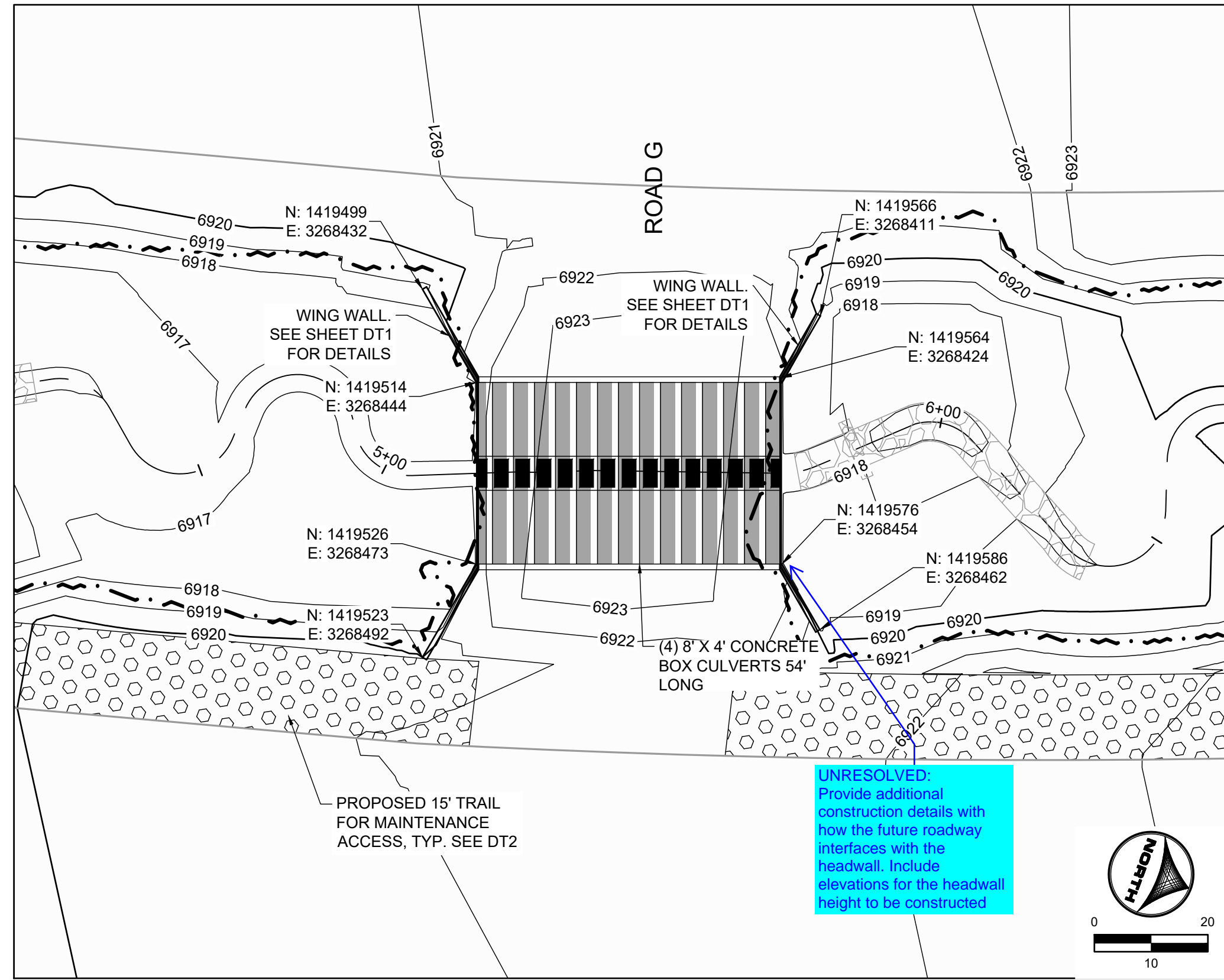
**GRANDVIEW RESERVE**  
**DR HORTON**  
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
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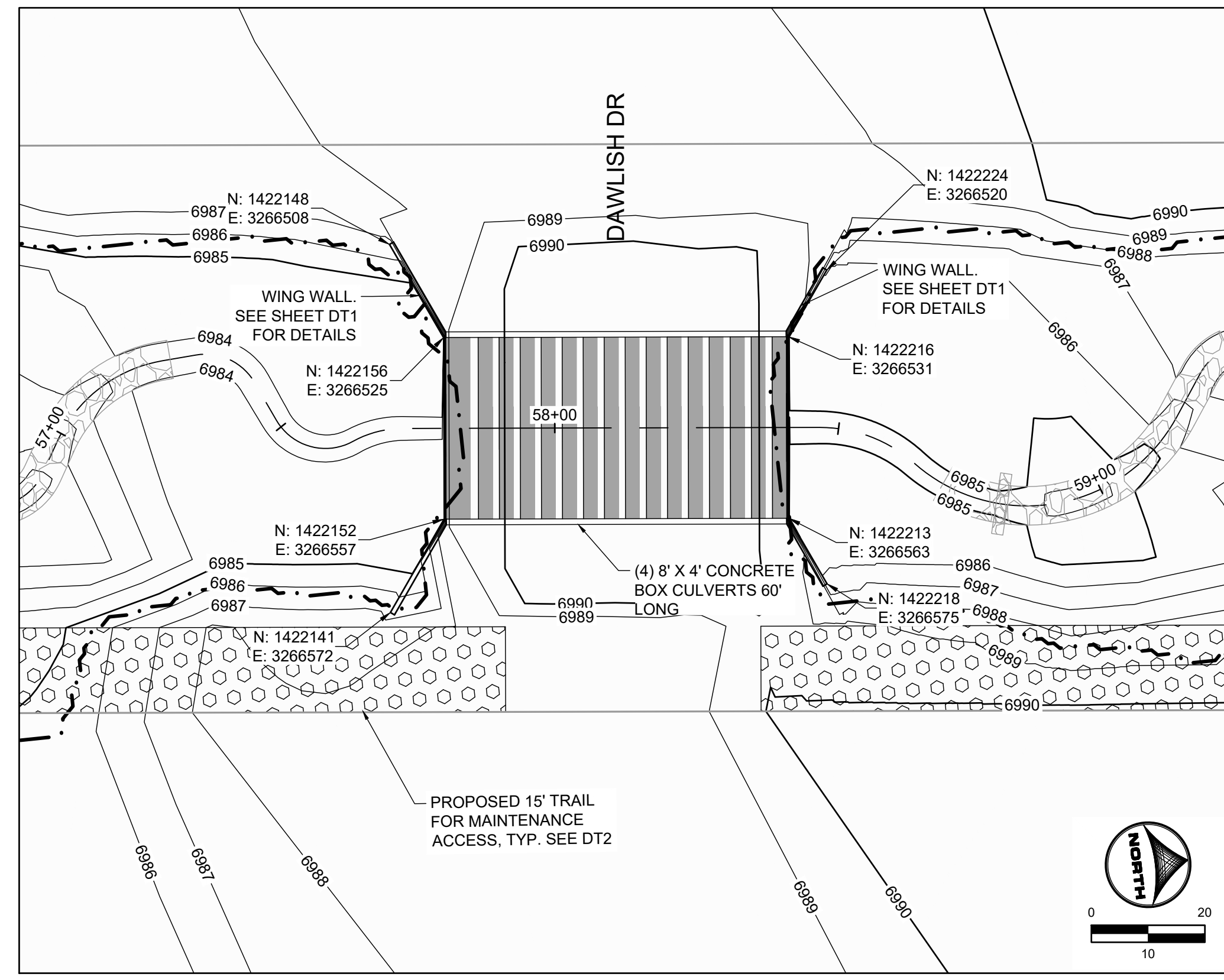
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**PP5**  
 34



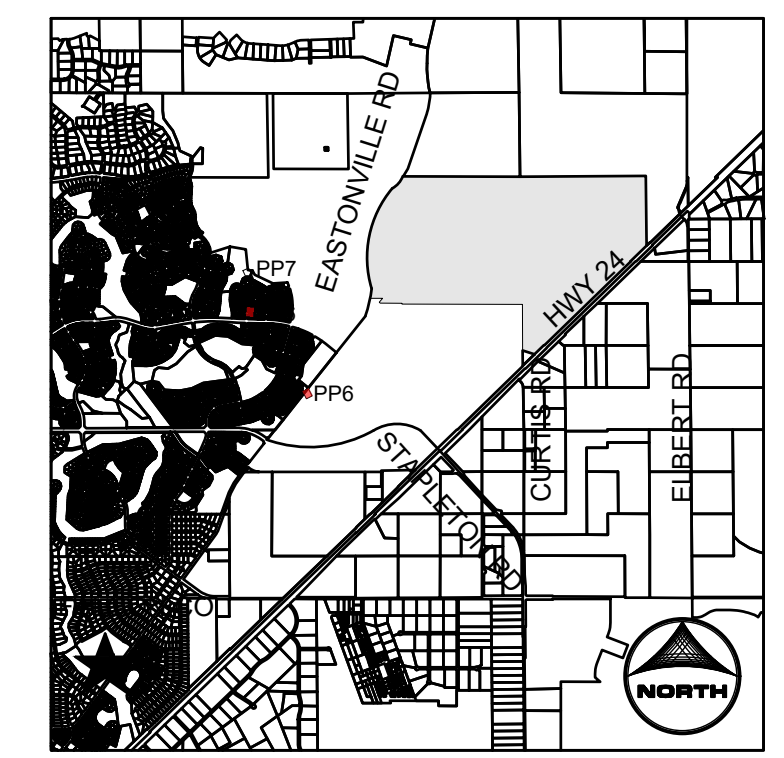
HR GREEN - DENVER: 5613 DTC PARKWAY SUITE 950, DENVER CO 80111, PHONE: 720.602.4999, FAX: 713.965.0044  
 UNRESOLVED: Provide additional construction details with how the future roadway interfaces with the headwall. Include elevations for the headwall height to be constructed.  
 UNRESOLVED: Update note to also reference headwall construction and it's associated detail.  
 UNRESOLVED: Label thalweg slope.  
 UNRESOLVED: Show toe wall on profile.  
 UNRESOLVED: Clarify if culverts are cast-in-place or precast. Provide construction detail for culvert.  
 Provide FDR that shows whether outlet protection is needed.  
 Label box culverts.  
 Comments made on culvert to the left applies to this culvert.



ROAD G CULVERT CROSSING

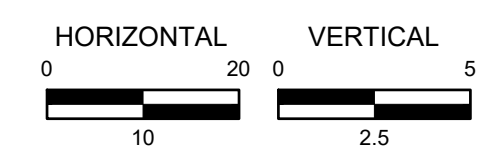
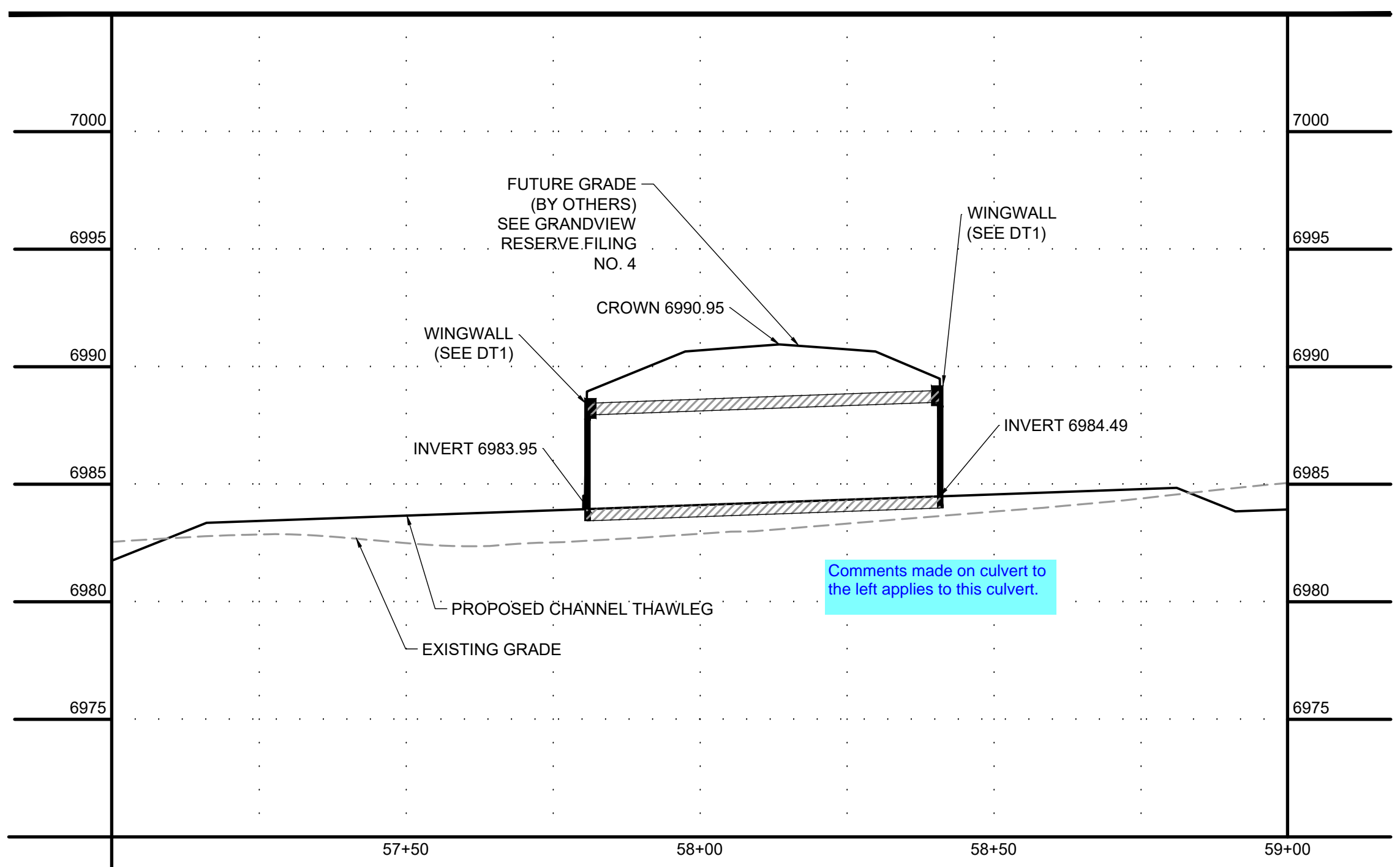
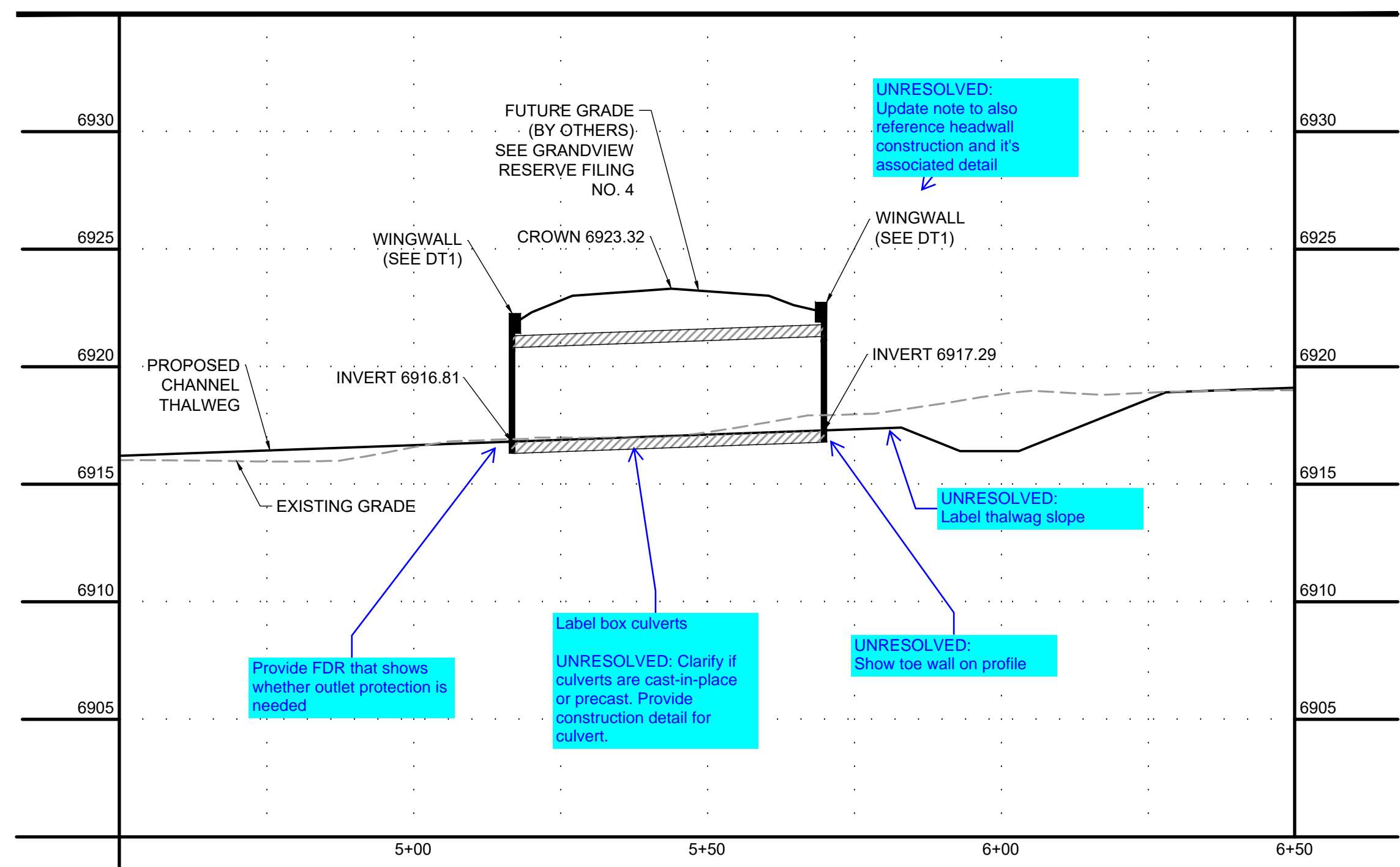


DAWLISH DR CULVERT CROSSING



- PROJECT LEGEND:**
- PROPERTY LINE
  - - - EXISTING EASEMENT
  - EXISTING GAS LINE
  - EXISTING TELEPHONE LINE
  - X - X - X - EXISTING FENCE LINE
  - - - EXISTING SECTION LINE
  - EXISTING SWALE
  - OHE --- EXISTING OVERHEAD ELECTRIC
  - EXISTING TELEPHONE POLE
  - - - 5250 --- EXISTING MAJOR CONTOUR
  - - - EXISTING MINOR CONTOUR
  - 5250 --- PROPOSED MAJOR CONTOUR
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NORTHING: 1421049.80  
EASTING: 3273631.55  
ELEVATION: 6866.33
  - ALIGNMENT NOT FOR USE IN CONSTRUCTION. REFER TO NORTHINGS AND EASTINGS
  - PLAN SET APPROVAL APPLIES TO THE LIMITS OF CONSTRUCTION. PLEASE SEE GRANDVIEW FILING NUMBER 1 PLAN SET FOR GRADING OUTSIDE OF THE CHANNEL LIMITS OF CONSTRUCTION.
  - TRIBUTARY 1 TO BE CONSTRUCTED WITH FILING 1 (AREA SOUTH OF TRIBUTARY 1). TRIBUTARY 2 TO BE CONSTRUCTED WITH FILING 2 (AREA NORTH OF TRIBUTARY 1 AND SOUTHWEST OF TRIBUTARY 2). BOX CULVERTS/CROSSINGS ALONG TRIBUTARY 2 TO BE CONSTRUCTED WITH TRIBUTARY IMPROVEMENTS.



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APPROVED: GLP	JOB NUMBER: 201662.03	0" = 1"
CAD DATE: 1/26/2024		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:\2020\201662.03\CAD\Draws\C\PLAN AND PROFILE		

NO.	DATE	BY	REVISION DESCRIPTION

**HRGreen**  
 HR GREEN - DENVER  
 5613 DTC PARKWAY SUITE 950  
 DENVER CO 80111  
 PHONE: 720.602.4999  
 FAX: 713.965.0044

**GRANDVIEW RESERVE**  
**DR HORTON**  
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
 DRAINAGE CULVERTS PLAN AND PROFILE

SHEET  
 PP6  
 35

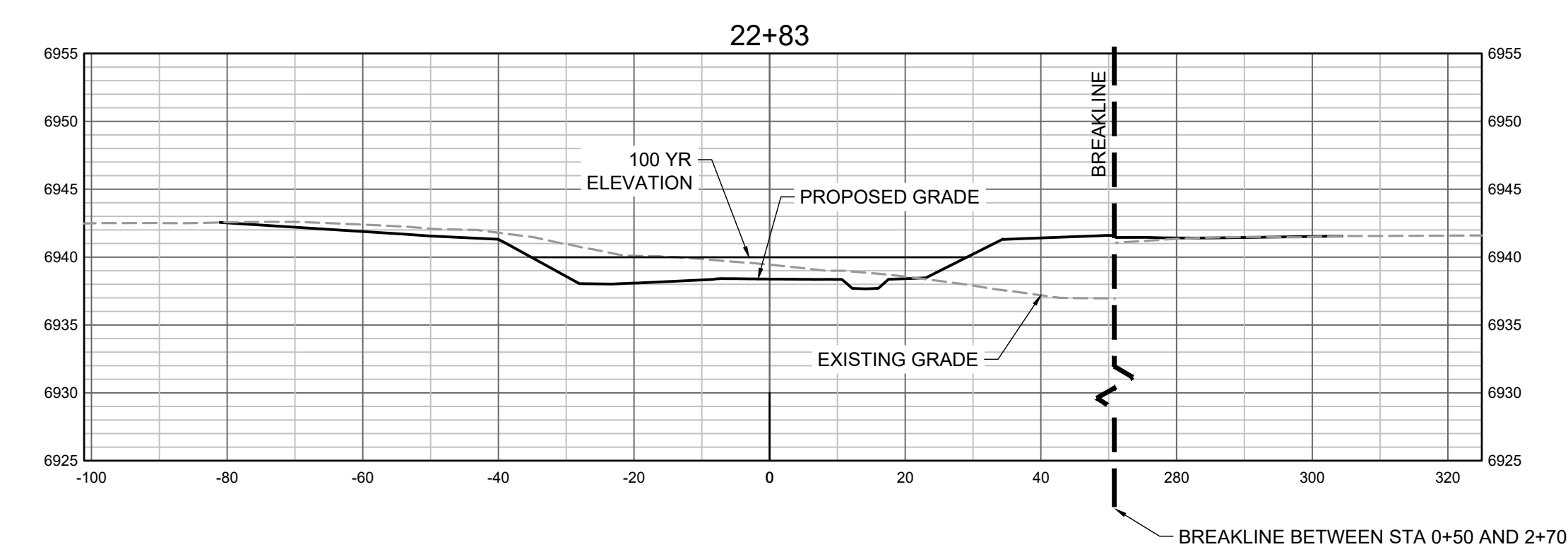
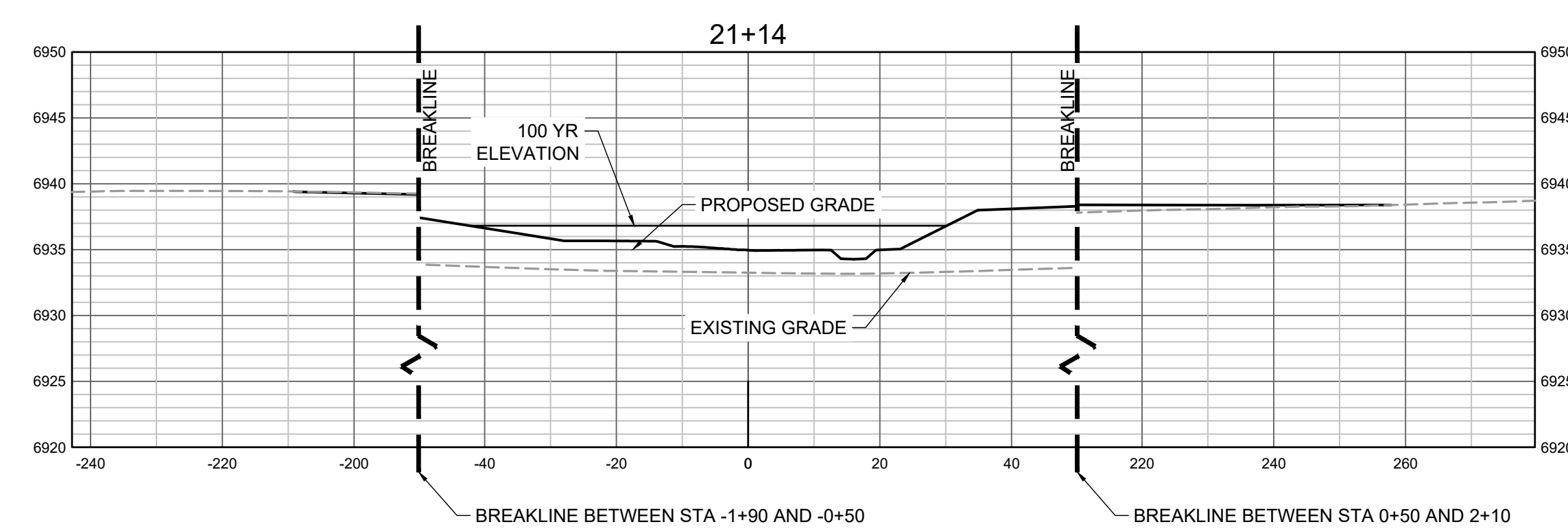
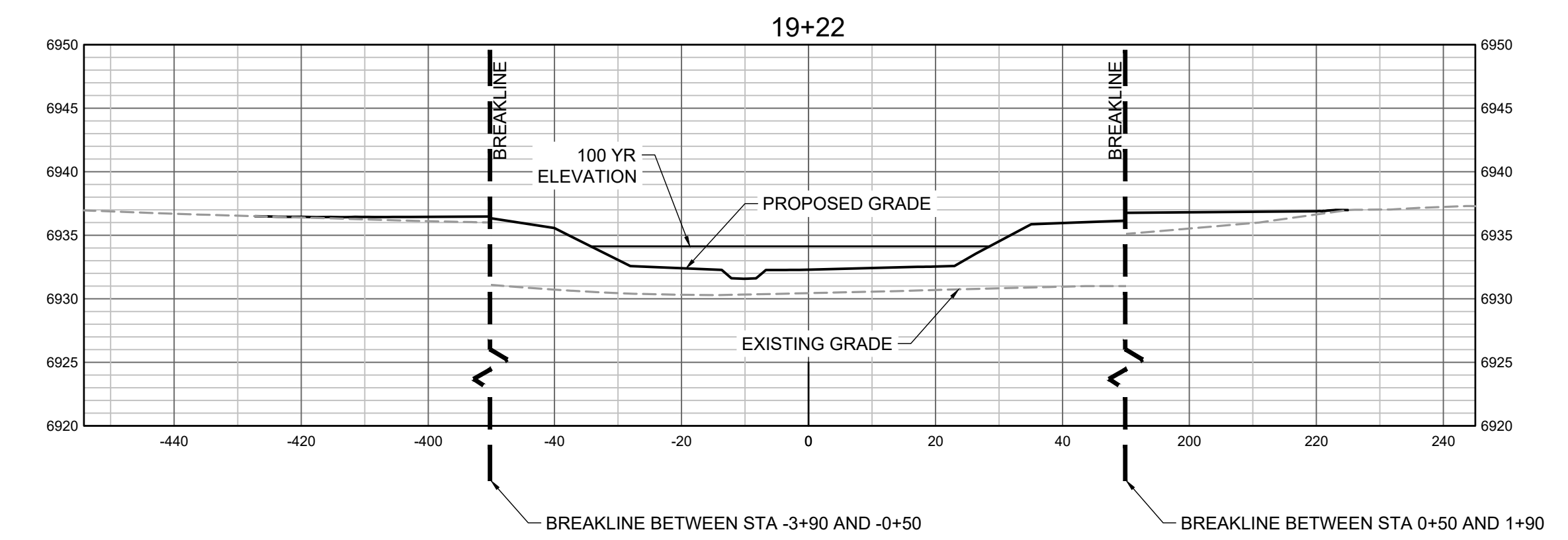
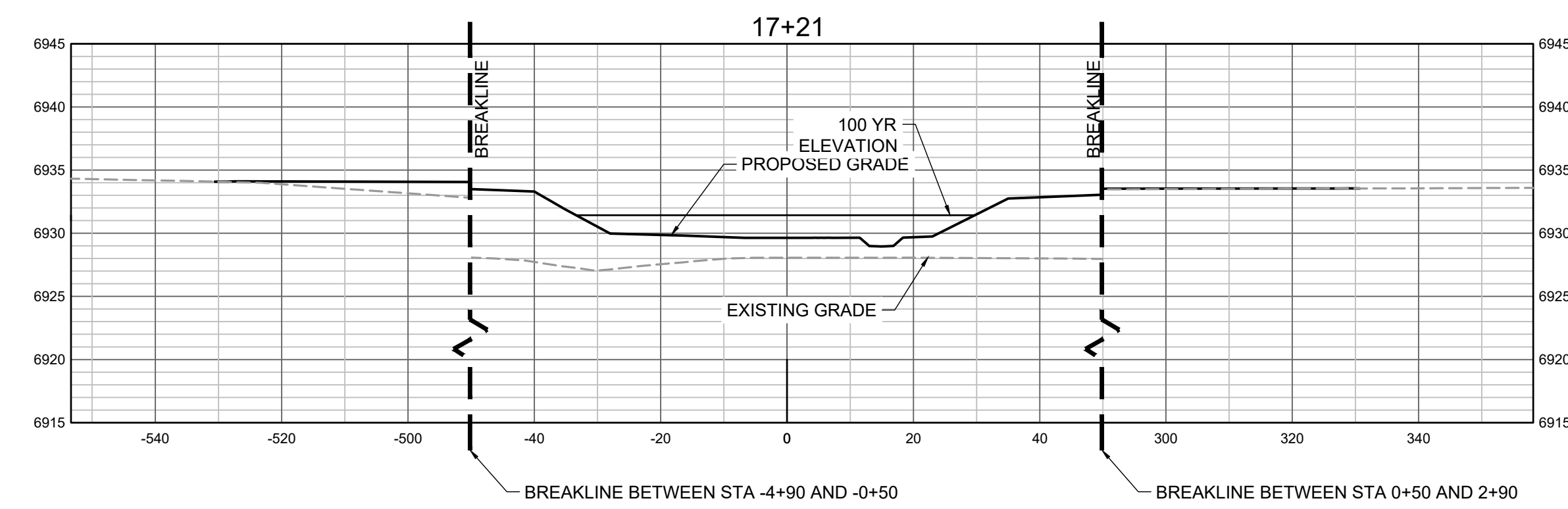
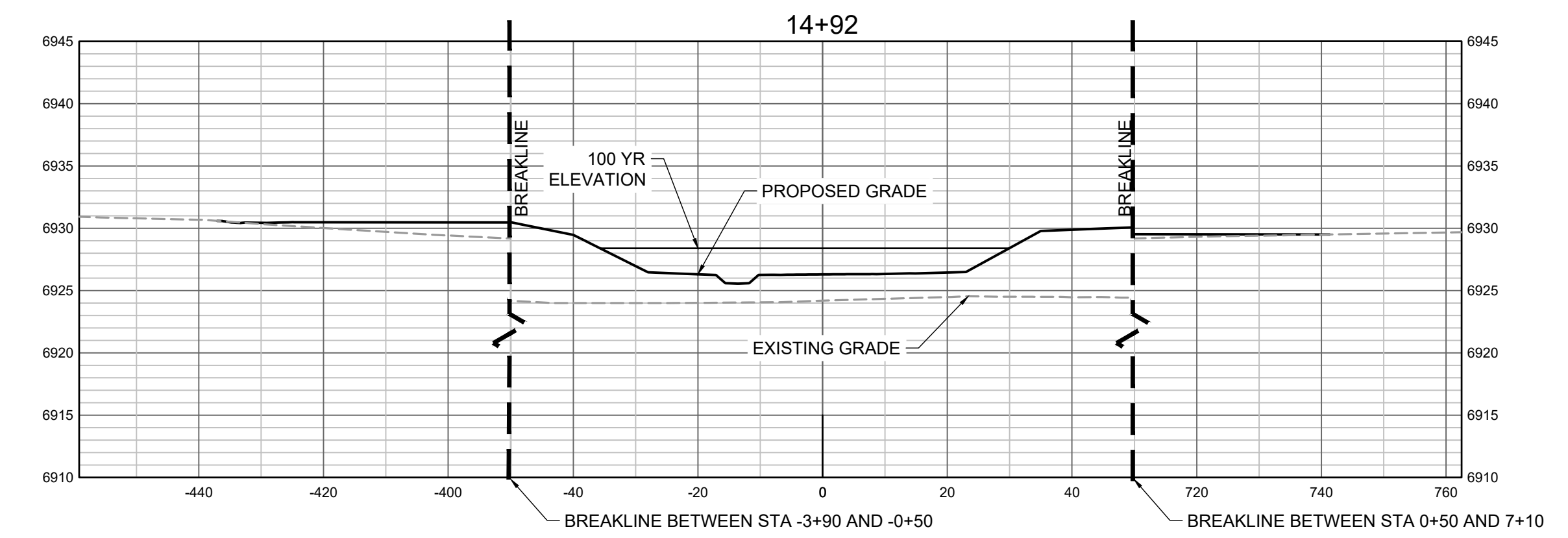
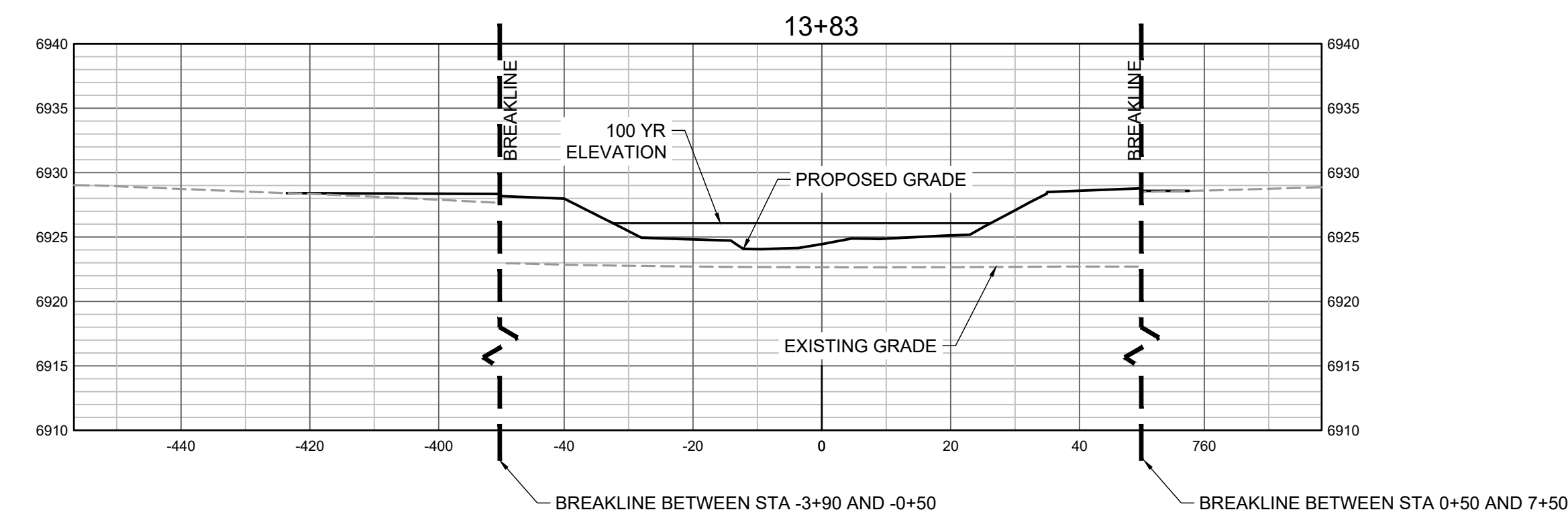
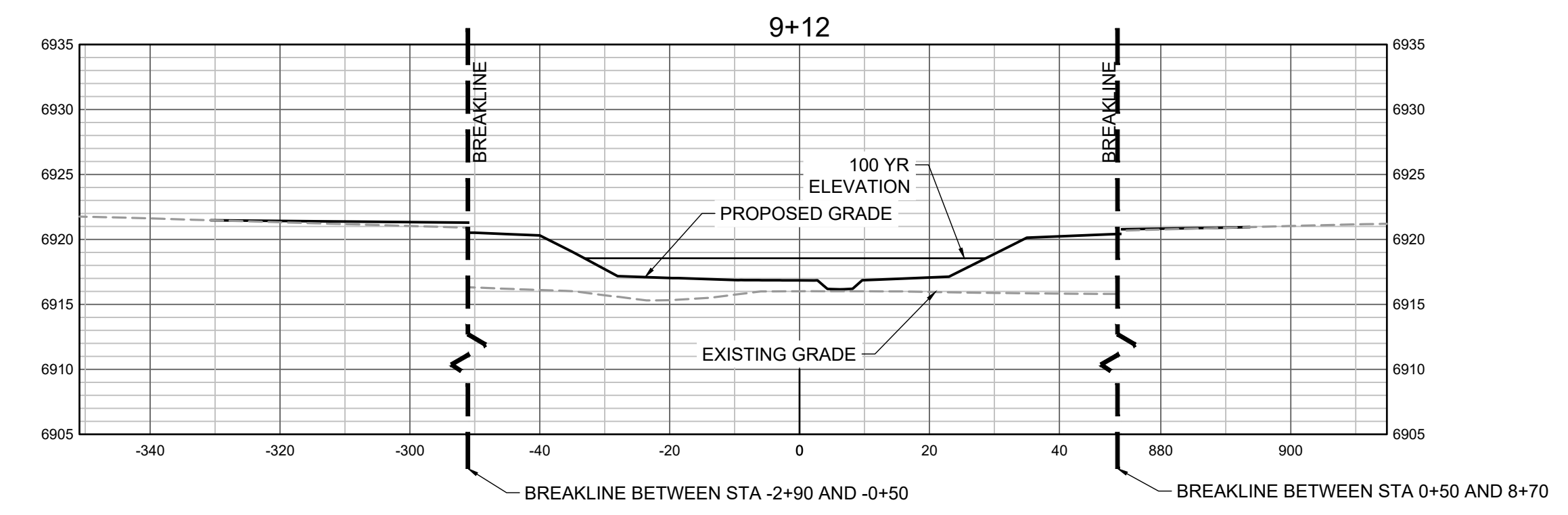
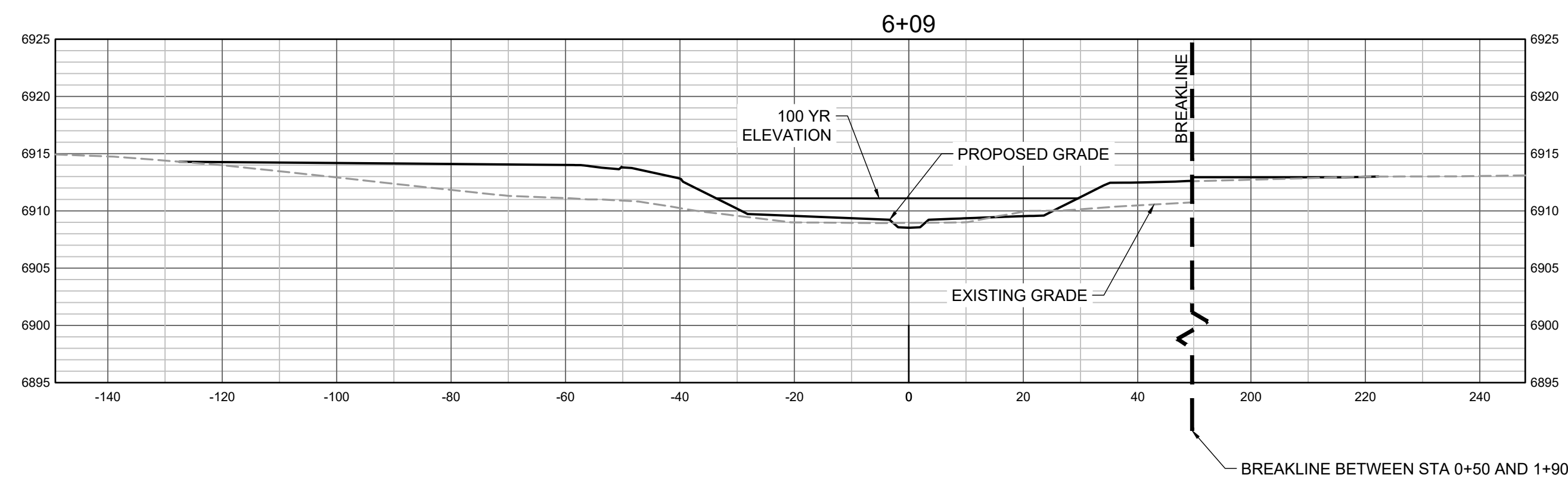
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 811 OR 1-800-922-1987  
 Utility Notification Center of Colorado

**FLORIDA LICENSED PROFESSIONAL ENGINEER**  
 37081

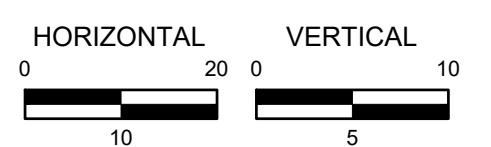








PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xref: xgs-1-dh01; 01-XC-PR-100%\_FP\_DELIMITATION

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 APPROVED: GLP JOB NUMBER: 201662.03  
 CAD DATE: 1/26/2024  
 CAD FILE: J:\2020\201662.03\CAD\dwgs\C\CROSS SECTIONS

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

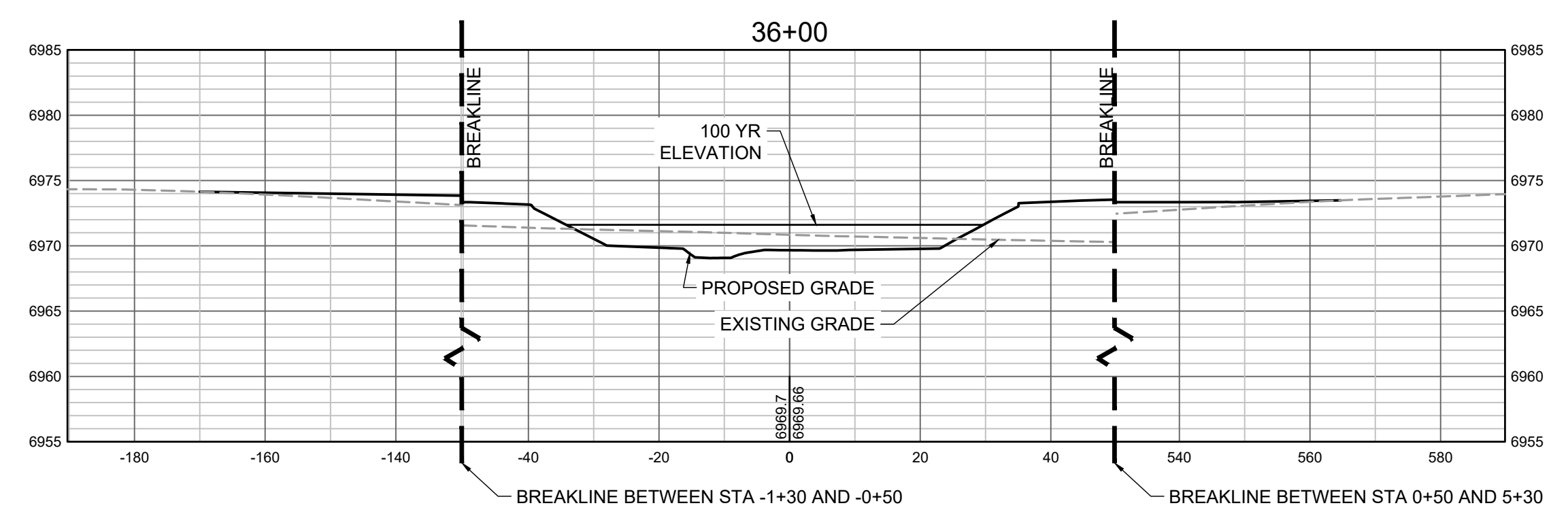
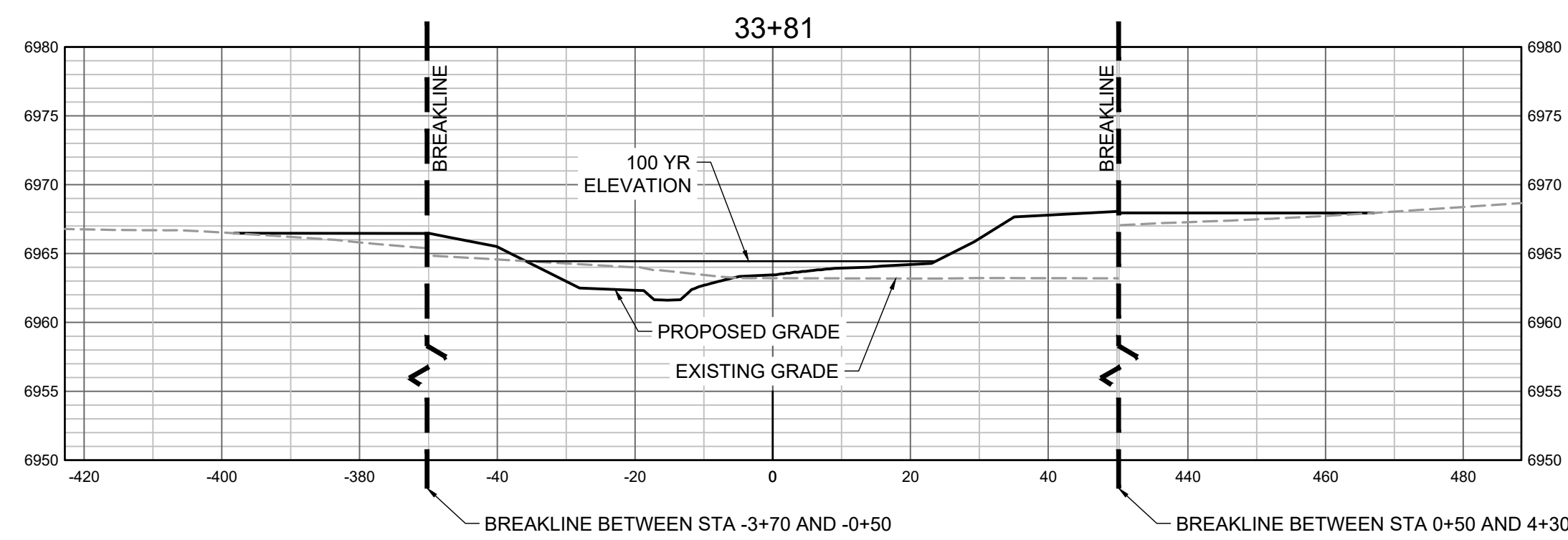
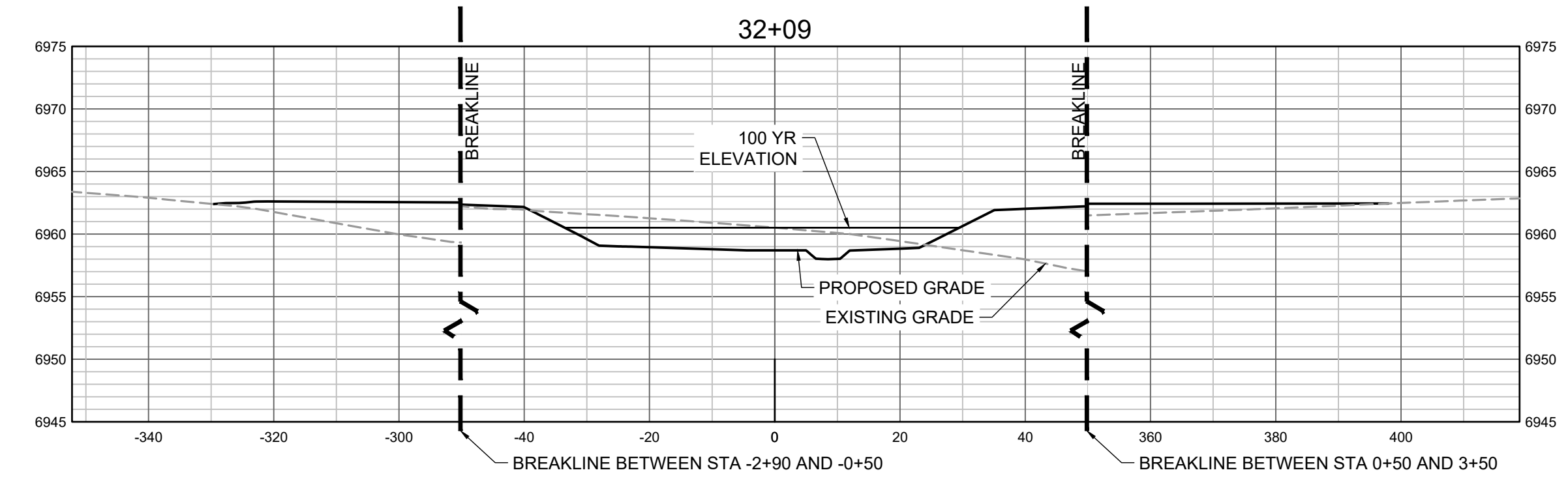
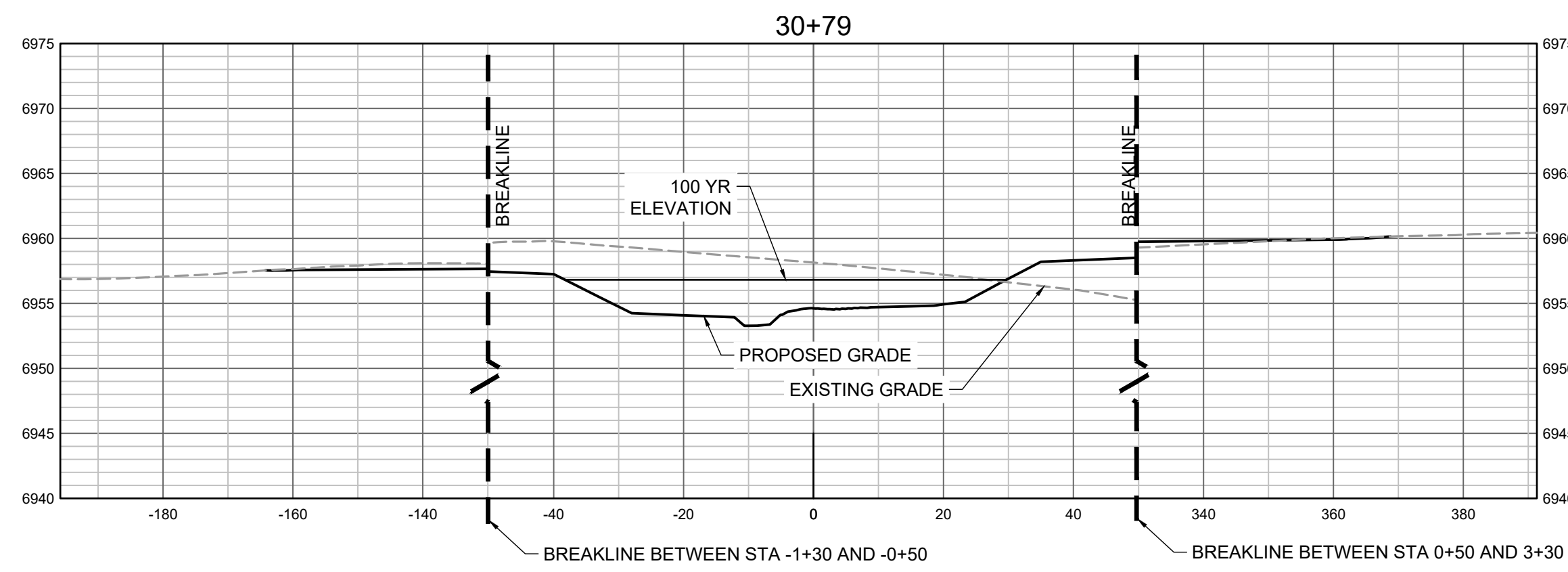
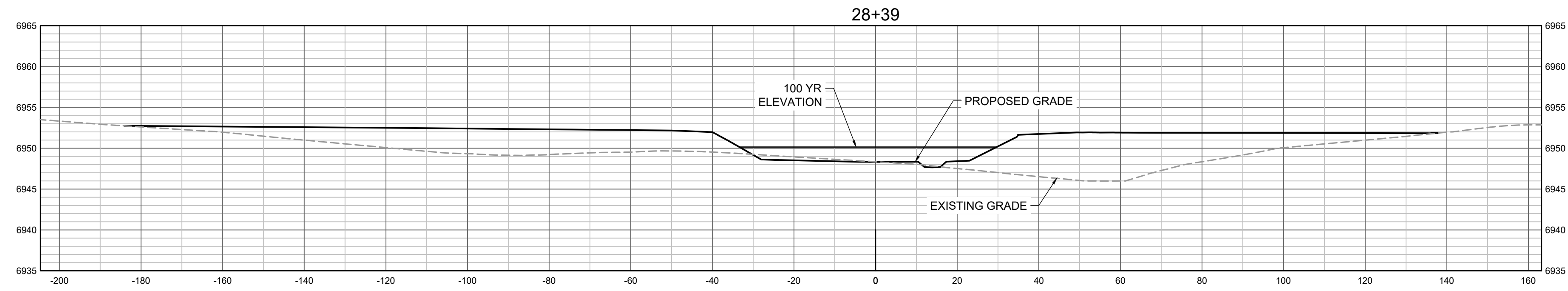
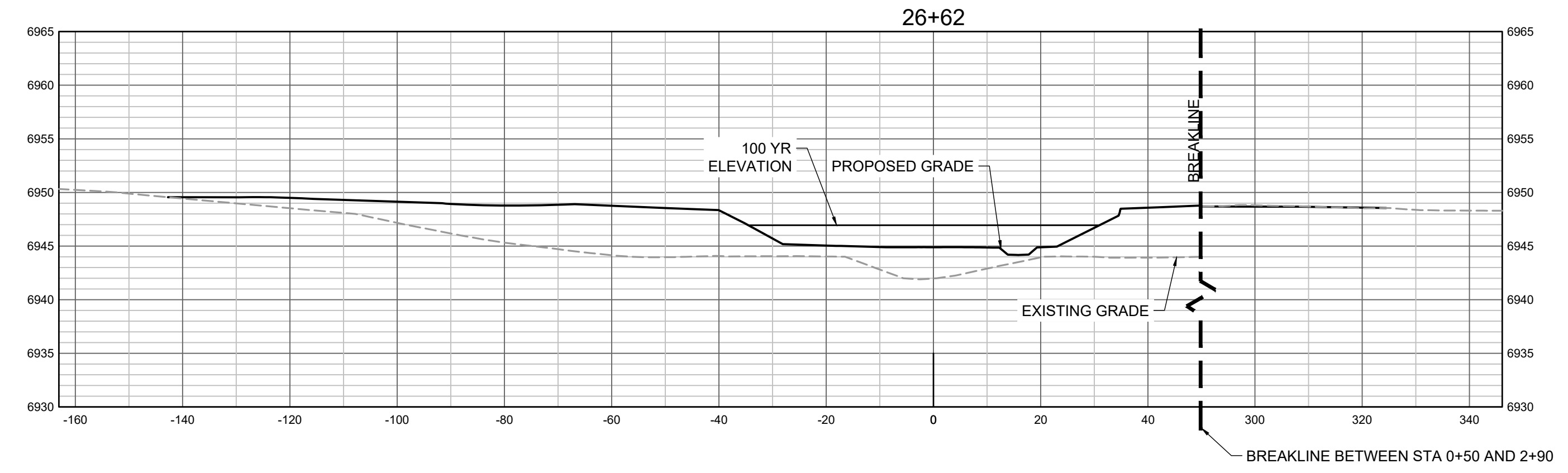
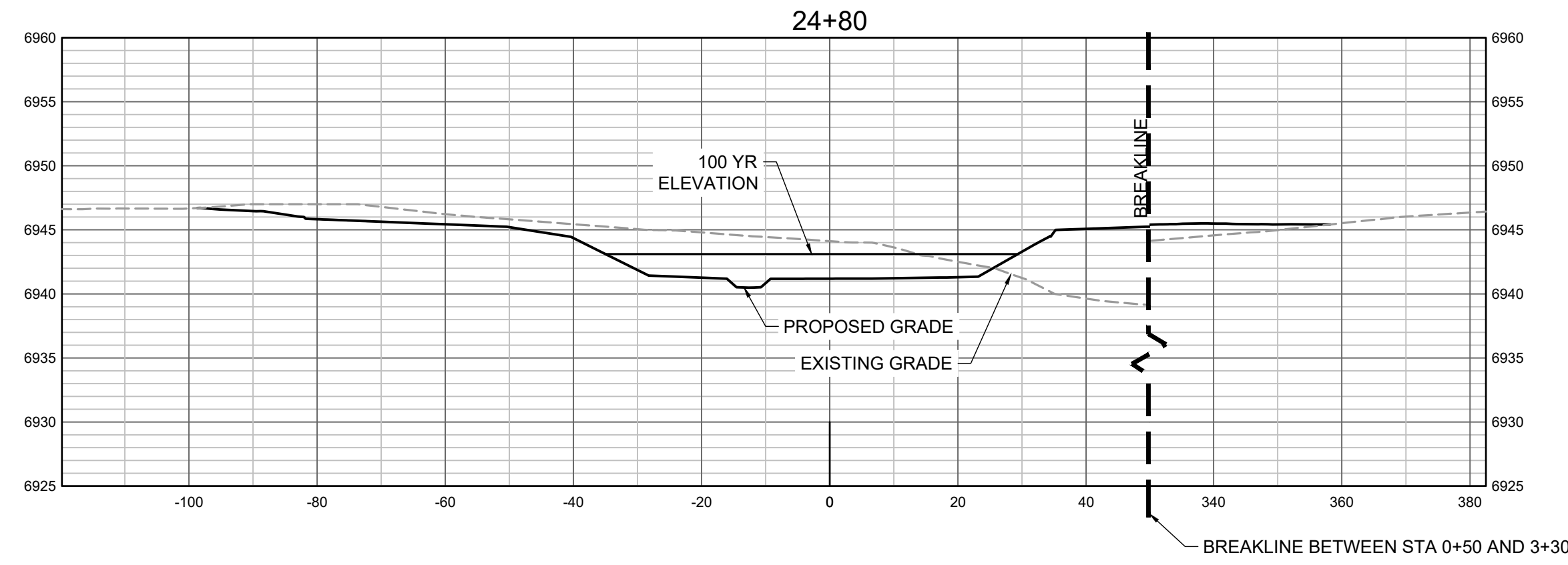
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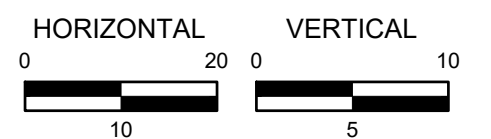
CONSTRUCTION DOCUMENTS  
 TRIBUTARY 2 CROSS SECTIONS

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PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xref: xref: 01-XC-PR-100%\_FP\_DELIMITATION

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 APPROVED: GLP JOB NUMBER: 201662.03  
 CAD DATE: 1/26/2024  
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CONSTRUCTION DOCUMENTS  
 TRIBUTARY 2 CROSS SECTIONS

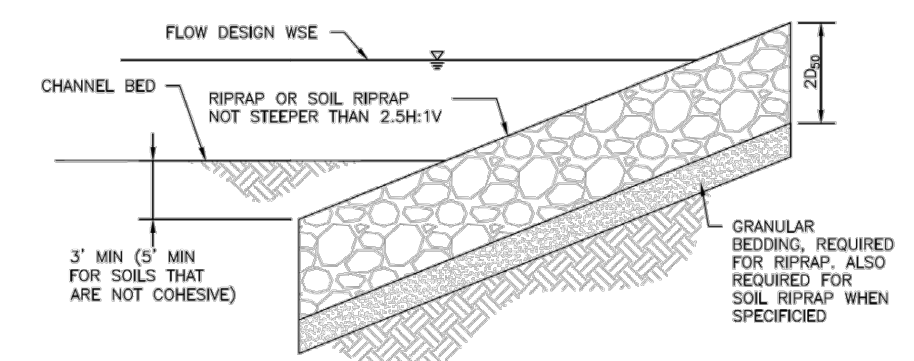
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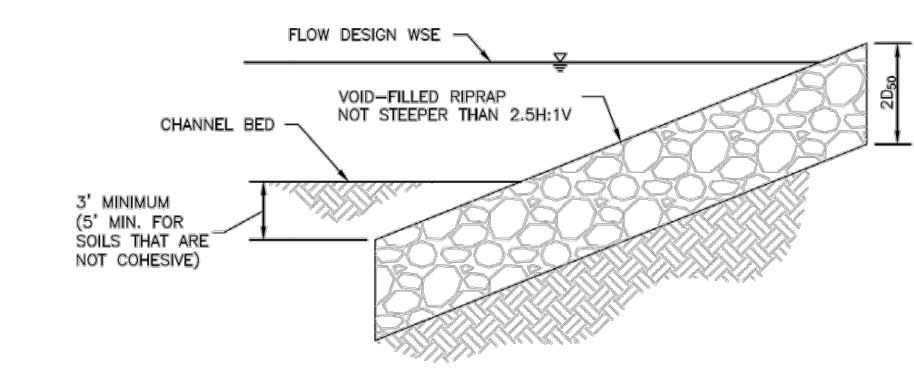
Provide chute & drop structure detail back in and address comments from previous submittal.



RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D <sub>50</sub> (INCHES)
TYPE VL	70 - 100	12	6
	50 - 70	9	
	35 - 50	6	
TYPE L	70 - 100	15	9
	50 - 70	12	
	35 - 50	9	
TYPE M	70 - 100	21	12
	50 - 70	18	
	35 - 50	12	
TYPE H	70 - 100	30	18
	50 - 70	24	
	35 - 50	18	
	2 - 10	6	

\*D<sub>50</sub> = MEAN ROCK SIZE

Figure 8-34. Riprap and soil riprap placement and gradation (part 1 of 3)



APPROPRIATE PROPORTIONS (BY VOLUME)	MATERIAL TYPE	MATERIAL DESCRIPTION
6 PARTS	RIPRAP	D <sub>50</sub> = 6 INCH (TYPE VL) OR D <sub>50</sub> = 9 INCH (TYPE L), SEE TABLE 3
2 PART	VOID-FILL MATERIAL	3-INCH MINUS CRUSHED ROCK SURGE (100% PASSING 7-INCH SIEVE, 80-100% PASSING 6-INCH SIEVE, 35-50% PASSING 3-INCH SIEVE, 10-20% PASSING 1/2-INCH SIEVE)
1 PART	VOID-FILL MATERIAL	1/2-INCH MINUS PIT RUN SURGE (ROUND RIVER ROCK AND SAND, WELL GRADED, 90-100% PASSING 4-INCH SIEVE, 70-80% PASSING 1 1/2-INCH SIEVE, 40-50% PASSING 3/8-INCH SIEVE, 10-30% PASSING #20 SIEVE)
1 PART	VOID-FILL MATERIAL	TYPE II BEDDING (CRUSHED ROCK WITH 100% PASSING 3-INCH SIEVE, 20-30% PASSING 1/2-INCH SIEVE, 0-20% PASSING #4 SIEVE, 0-3% PASSING #20 SIEVE)
1/2 TO 1 PART	VOID-FILL MATERIAL	NATIVE TOPSOIL

Figure 8-35. Void-filled riprap placement and gradation (part 1 of 3)

- SOIL RIPRAP NOTES:
- ELEVATION TOLERANCES FOR THE SOIL RIPRAP SHALL BE 0.10 FEET. THICKNESS OF SOIL RIPRAP SHALL BE NO LESS THAN THICKNESS SHOWN AND NO MORE THAN 2-INCHES GREATER THAN THE THICKNESS SHOWN.
  - WHERE "SOIL RIPRAP IS DESIGNATED ON THE CONTRACT DRAWINGS, RIPRAP VOIDS ARE TO BE FILLED WITH NATIVE SOIL. THE RIPRAP SHALL BE PRE-MIXED WITH THE NATIVE SOIL AT THE FOLLOWING PROPORTIONS BY VOLUME: 65PERCENT RIPRAP AND 35 PERCENT SOIL. THE SOIL USED FOR MIXING SHALL BE NATIVE TOPSOIL AND SHALL HAVE A MINIMUM FINES CONTENT OF 15 PERCENT. THE SOIL RIPRAP SHALL BE INSTALLED IN A MANNER THAT RESULTS IN A DENSE, INTERLOCKED LAYER OF RIPRAP WITH RIPRAP VOIDS FILLED COMPLETELY WITH SOIL. SEGREGATION OF MATERIALS SHALL BE AVOIDED AND IN NO CASE SHALL THE COMBINED MATERIAL CONSIST PRIMARILY OF SOIL. THE DENSITY AND INTERLOCKING NATURE OF RIPRAP IN THE MIXED MATERIAL SHALL ESSENTIALLY BE THE SAME AS IF THE RIPRAP WAS PLACED WITHOUT SOIL.
  - WHERE SPECIFIED (TYPICALLY AS "BURIED SOIL RIPRAP"), A SURFACE LAYER OF TOPSOIL SHALL BE PLACED OVER THE SOIL RIPRAP ACCORDING TO THE THICKNESS SPECIFIED ON THE CONTRACT DRAWINGS. THE TOPSOIL SURFACE LAYER SHALL BE COMPACTED TO APPROXIMATELY 85% OF MAXIMUM DENSITY AND WITHIN TWO PERCENTAGE POINTS OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698. TOPSOIL SHALL BE ADDED TO ANY AREAS THAT SETTLE.
  - ALL SOIL RIPRAP THAT IS BURIED WITH TOPSOIL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ANY TOPSOIL PLACEMENT.

U.S. STANDARD SIEVE SIZE	GRADATION FOR GRANULAR BEDDING	
	TYPE I CDOT SECT. 703.01	TYPE II CDOT SECT. CLASS A
3 INCHES	-	90 - 100
1 1/2 INCHES	-	-
3/4 INCHES	-	20 - 90
3/8 INCHES	100	-
#4	95 - 100	0 - 20
#10	45 - 80	-
#60	10 - 30	-
#100	2 - 10	-
#200	0 - 2	0 - 3

Figure 8-34. Riprap and soil riprap placement and gradation (part 2 of 3)

APPROPRIATE PROPORTIONS (BY VOLUME)	MATERIAL TYPE	MATERIAL DESCRIPTION
6 PARTS	RIPRAP	D <sub>50</sub> = 12-INCH (TYPE M) OR D <sub>50</sub> = 18-INCH (TYPE H), SEE TABLE 3
2 PART	VOID-FILL MATERIAL	3-INCH MINUS CRUSHED ROCK SURGE (100% PASSING 7-INCH SIEVE, 80-100% PASSING 6-INCH SIEVE, 35-50% PASSING 3-INCH SIEVE, 10-20% PASSING 1/2-INCH SIEVE)
1 PART	VOID-FILL MATERIAL	1/2-INCH MINUS PIT RUN SURGE (ROUND RIVER ROCK AND SAND, WELL GRADED, 90-100% PASSING 4-INCH SIEVE, 70-80% PASSING 1 1/2-INCH SIEVE, 40-50% PASSING 3/8-INCH SIEVE, 10-30% PASSING #20 SIEVE)
1 PART	VOID-FILL MATERIAL	TYPE II BEDDING (CRUSHED ROCK WITH 100% PASSING 3-INCH SIEVE, 20-30% PASSING 1/2-INCH SIEVE, 0-20% PASSING #4 SIEVE, 0-3% PASSING #20 SIEVE)
1/2 TO 1 PART	VOID-FILL MATERIAL	NATIVE TOPSOIL

RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D <sub>50</sub> (INCHES)
TYPE VL	70 - 100	12	6
	50 - 70	9	
	35 - 50	6	
TYPE L	70 - 100	15	9
	50 - 70	12	
	35 - 50	9	
TYPE M	70 - 100	21	12
	50 - 70	18	
	35 - 50	12	
TYPE H	70 - 100	30	18
	50 - 70	24	
	35 - 50	18	
	2 - 10	6	

\*D<sub>50</sub> = MEAN ROCK SIZE

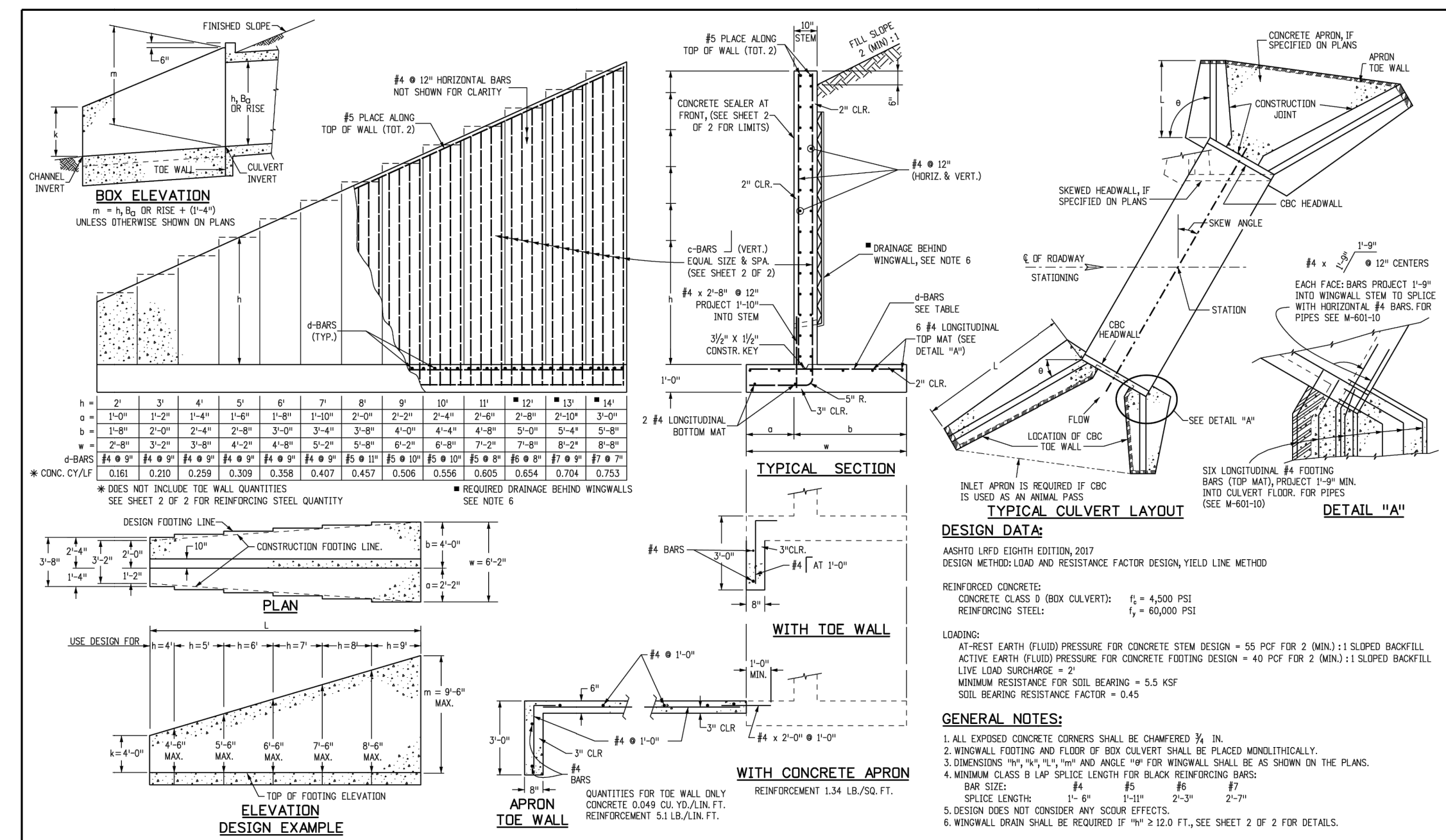
Figure 8-35. Void-filled riprap placement and gradation (part 2 of 3)

RIPRAP DESIGNATION	THICKNESS REQUIREMENTS FOR GRANULAR BEDDING		
	MINIMUM BEDDING THICKNESS (INCHES)		COARSE-GRAINED SOILS 2
	TYPE I (LOWER LAYER)	TYPE II (UPPER LAYER)	
VL (D <sub>50</sub> = 6 IN)	4	4	6
L (D <sub>50</sub> = 9 IN)	4	4	6
M (D <sub>50</sub> = 12 IN)	4	4	6
H (D <sub>50</sub> = 18 IN)	4	6	8
VH (D <sub>50</sub> = 24 IN)	4	6	8

Figure 8-34. Riprap and soil riprap placement and gradation (part 3 of 3)

- VOID-FILLED RIPRAP PLACEMENT AND GRADATION NOTES:
- WHERE "VOID-FILLED RIPRAP" IS DESIGNATED ON THE CONTRACT DRAWINGS, RIPRAP SHALL BE MIXED WITH THE MATERIALS AND ASSOCIATED PROPORTIONS LISTED IN TABLE 1 OR TABLE 2 TO FILL THE VOIDS OF THE RIPRAP.
  - THE MIX PROPORTIONS PROVIDED IN TABLE 1 AND TABLE 2 ARE APPROXIMATE AND ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER.
  - THE RIPRAP AND VOID-FILLED MATERIALS SHALL BE STOCKPILED SEPARATELY AND THOROUGHLY MIXED PRIOR TO PLACEMENT AND SHALL BE INSTALLED AND COMPACTED SO THAT A DENSE, INTERLOCKED LAYER OF RIPRAP AND VOID-FILL MATERIAL IS PROVIDED WITH RIPRAP VOIDS COMPLETELY FILLED. THE LOOSE MATERIAL SHALL BE PLACED IN A SINGLE LIFT OF SUFFICIENT HEIGHT SUCH THAT FINAL GRADE WILL BE ACHIEVED UPON COMPACTED. IF THE COMPACTED MATERIAL IS BELOW FINAL GRADE, PLACEMENT OF ONLY THE SMALLER VOID-FILL MATERIALS TO ACHIEVE FINAL GRADE IS NOT PERMITTED. IN SUCH CASES IT IS NECESSARY TO ADD MORE STANDARD SIZE VOID-FILLED RIPRAP AND REMIX THE ENTIRE THICKNESS OF ROCK TO ACHIEVE THE DESIGN SECTION. SEGREGATION OF MATERIALS SHALL BE AVOIDED AND IN NO CASE SHALL THE COMBINED MATERIAL CONSIST PRIMARILY OF THE VOID-FILL MATERIALS. THE DENSITY AND INTERLOCKING NATURE OF RIPRAP IN THE MIXED MATERIAL SHALL ESSENTIALLY BE THE SAME AS IF THE RIPRAP WAS PLACED WITHOUT FILLING THE VOIDS.
  - COMPACTION OF THE VOID-FILLED RIPRAP SHALL BE PERFORMED BY WHEEL ROLLING WITH HEAVY RUBBER-TIRED EQUIPMENT (E.G. FRONT END LOADER). THE MOISTURE CONTENT OF THE MIXTURE SHALL BE AT OPTIMUM CONDITIONS PRIOR TO COMPACTION AND WATER SHALL BE ADDED, AS NECESSARY, AT THE DISCRETION OF THE ENGINEER.
  - WHERE INDICATED ON THE DRAWINGS, A SURFACE LAYER OF MOST TOPSOIL SHALL BE PLACED OVER THE VOID-FILLED RIPRAP. THE TOPSOIL SURFACE LAYER SHALL BE COMPACTED TO APPROXIMATELY 85% OF MAXIMUM DENSITY AND WITHIN TWO PERCENTAGE POINTS OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698. TOPSOIL SHALL BE ADDED TO ANY AREAS THAT SETTLE.
  - ALL VOID-FILLED RIPRAP THAT IS BURIED WITH TOPSOIL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ANY TOPSOIL PLACEMENT.

Figure 8-35. Void-filled riprap placement and gradation (part 3 of 3)



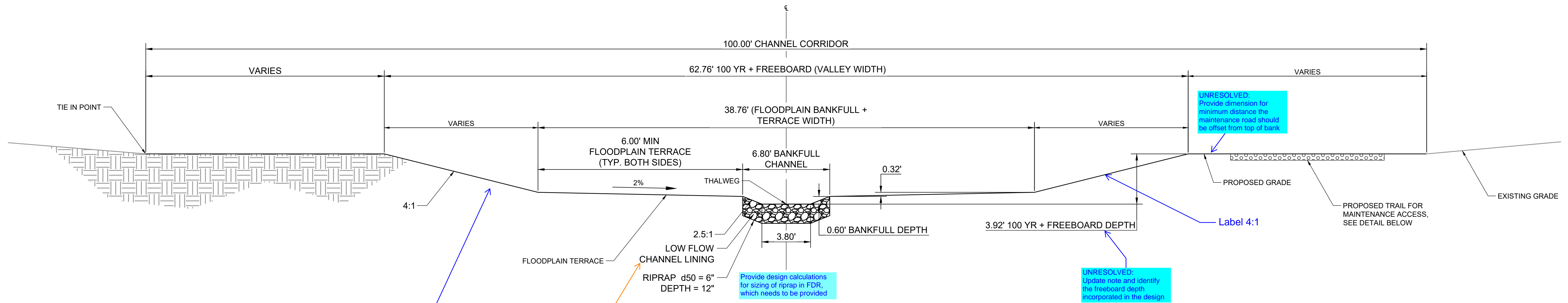
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Creation Date: 07/31/19 Designer: JTBK Last Modification Date: 07/31/19 Detailer: JTBK CAD Ver: MicroStation V8 Scale: Not to Scale Units: English	Date: _____ Comments: _____	2829 West Howard Place Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9868 Project Development Branch JTBK	M-601-20 Standard Sheet No. 1 of 2

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11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
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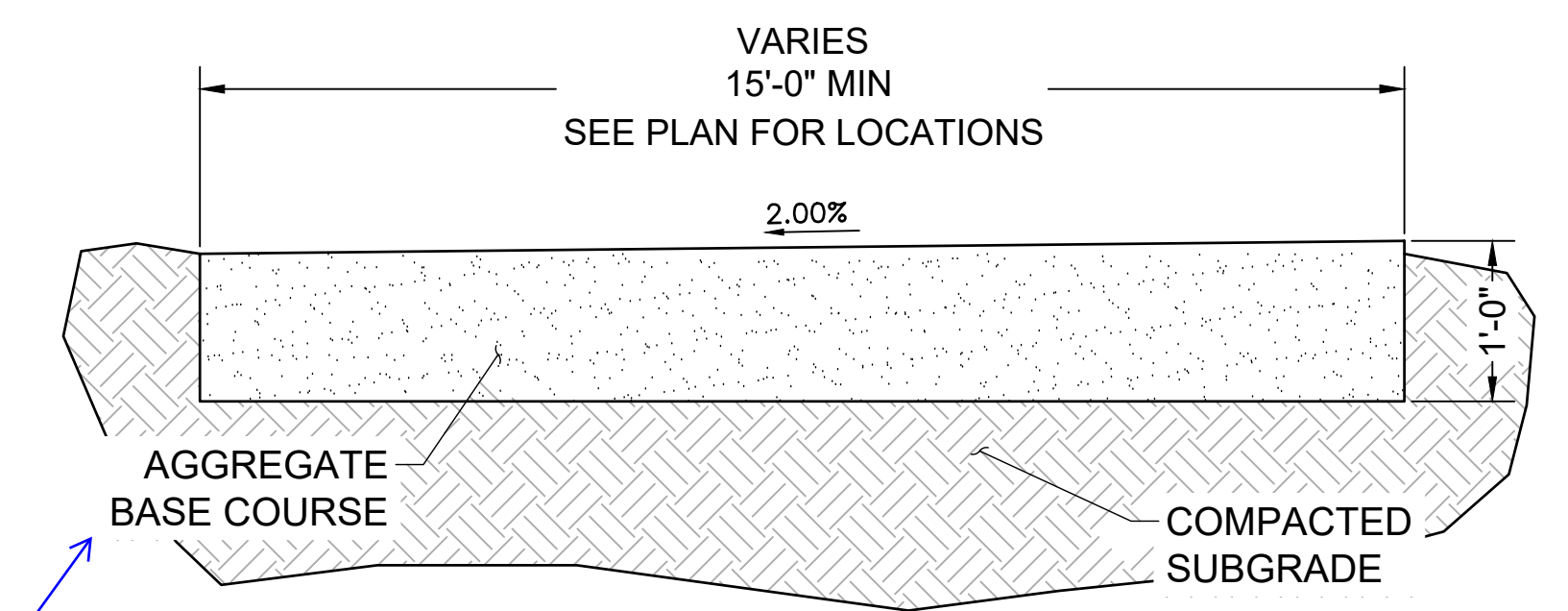
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Creation Date: 07/31/19 Designer: JTBK Last Modification Date: 07/31/19 Detailer: JTBK CAD Ver: MicroStation V8 Scale: Not to Scale Units: English	Date: _____ Comments: _____	2829 West Howard Place Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9868 Project Development Branch JTBK	M-601-20 Standard Sheet No. 2 of 2

Provide detail for headwall & box culvert





1 TYPICAL CROSS SECTION - TRIBUTARY 2  
SCALE: N.T.S.



MAINTENANCE ROAD TYPICAL SECTION  
SCALE: NTS

- NOTES:
- BANKFULL CHANNEL MAY SHIFT LEFT OR RIGHT WITHIN THE BANKFULL + TERRACE WIDTH SO LONG AS THE MINIMUM FLOOD PLAIN TERRACE WIDTH OF 6' IS MAINTAINED ON BOTH SIDES.
  - VALLEY WIDTH MAY SHIFT WITHIN THE 100' CHANNEL CORRIDOR.
  - SEE PROFILES FOR ELEVATION AT THALWEG.

DRAWN BY: TBI JOB DATE: 1/23/2024  
 APPROVED: GLP JOB NUMBER: 201662.03  
 CAD DATE: 1/26/2024  
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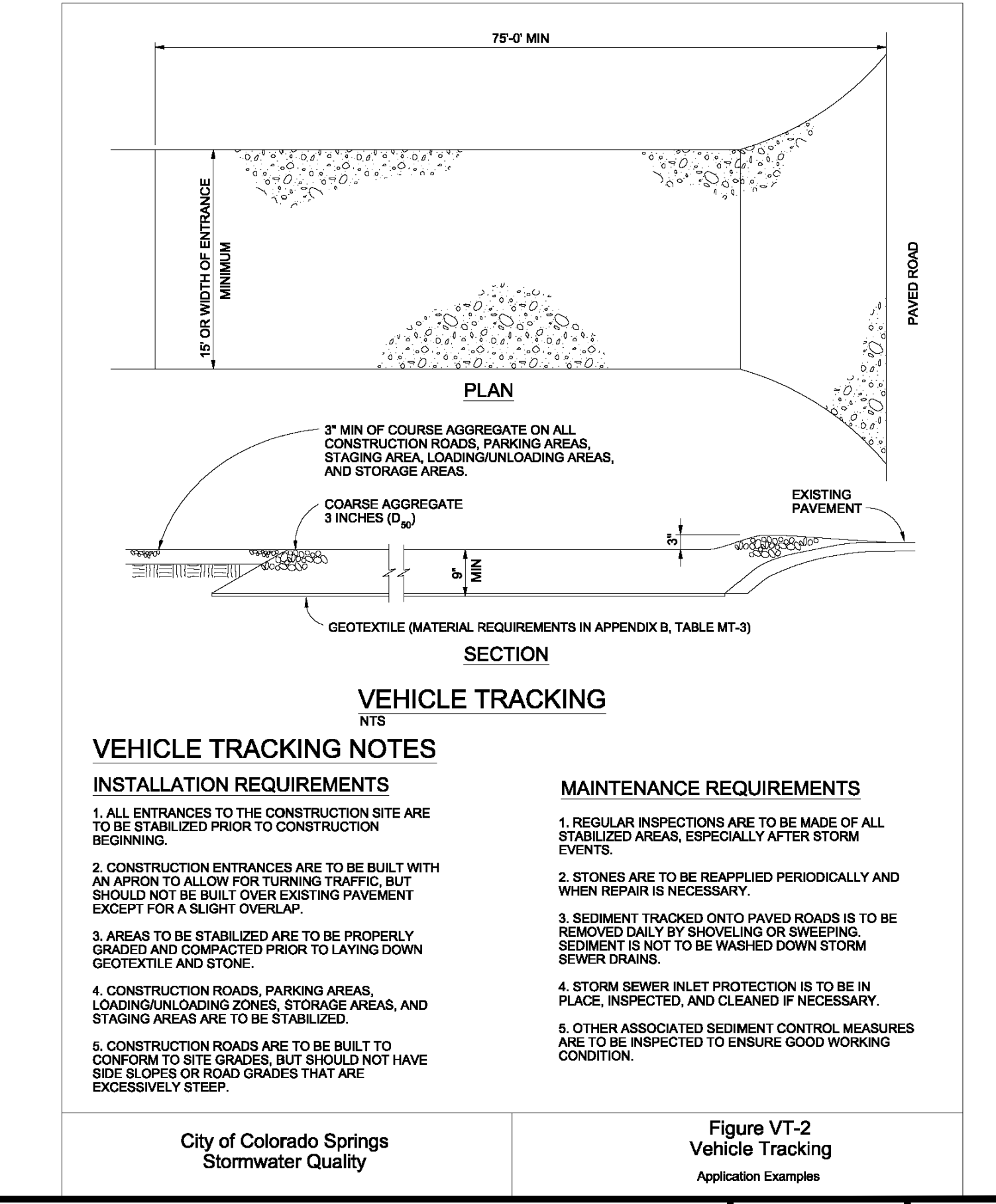
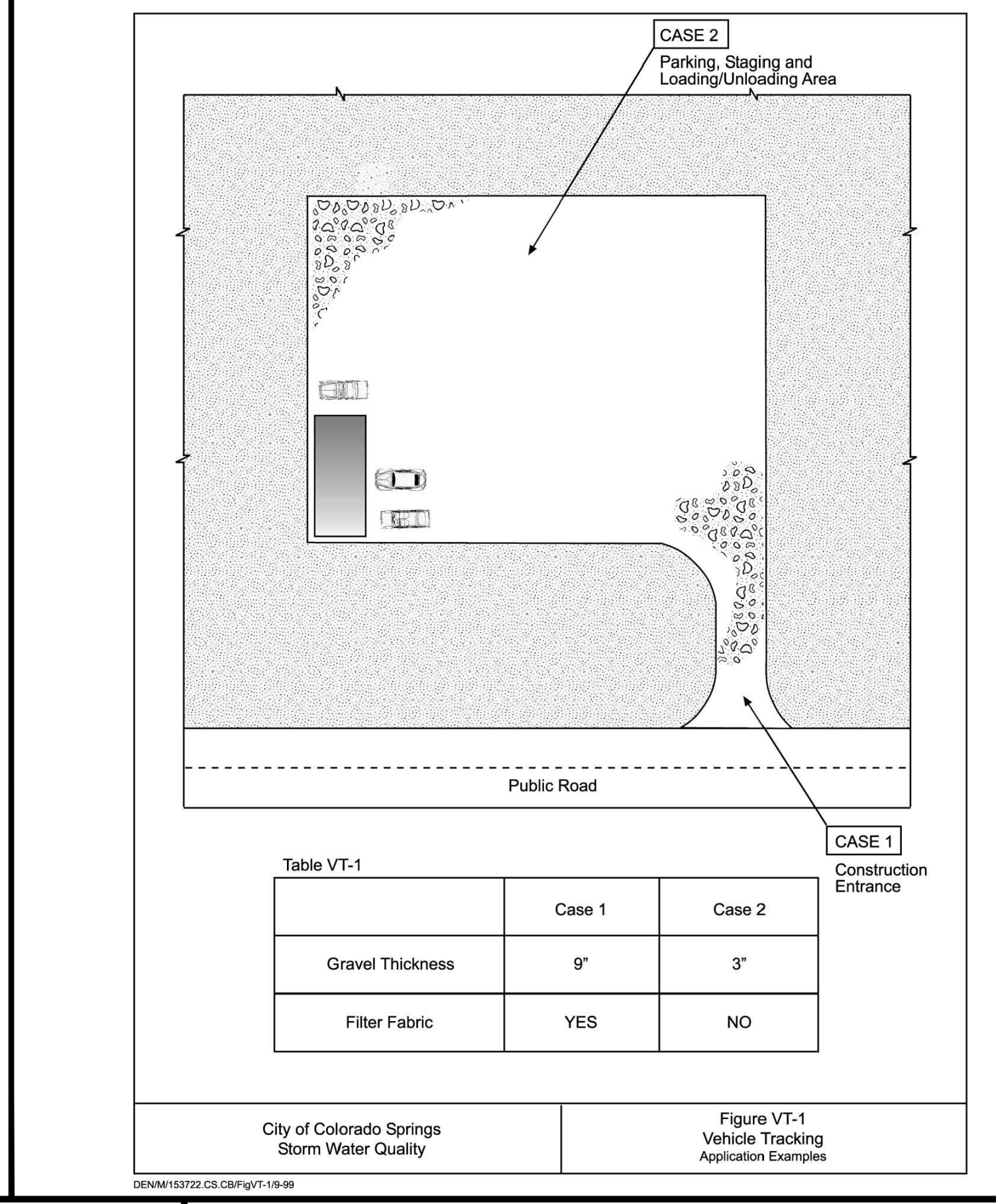
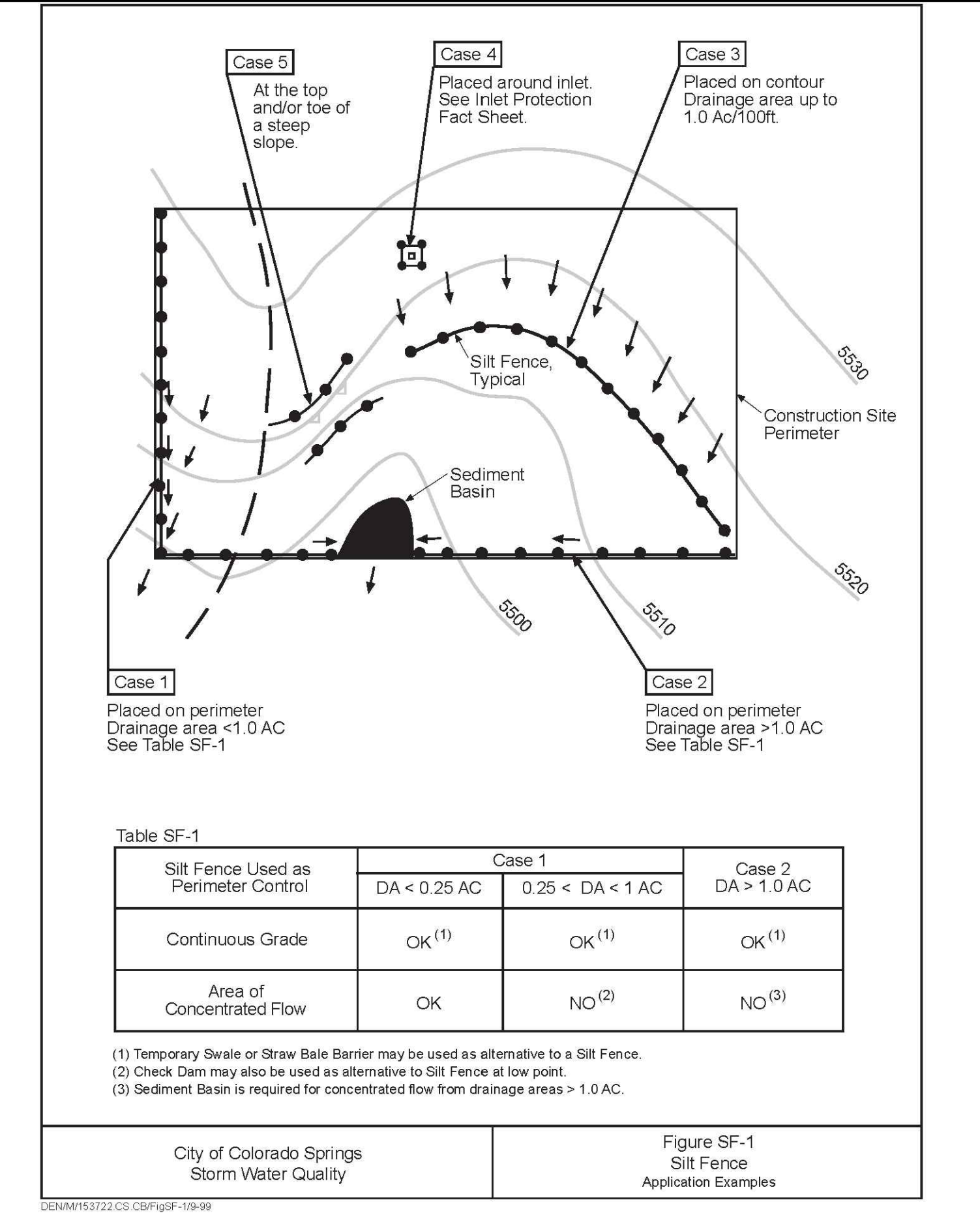
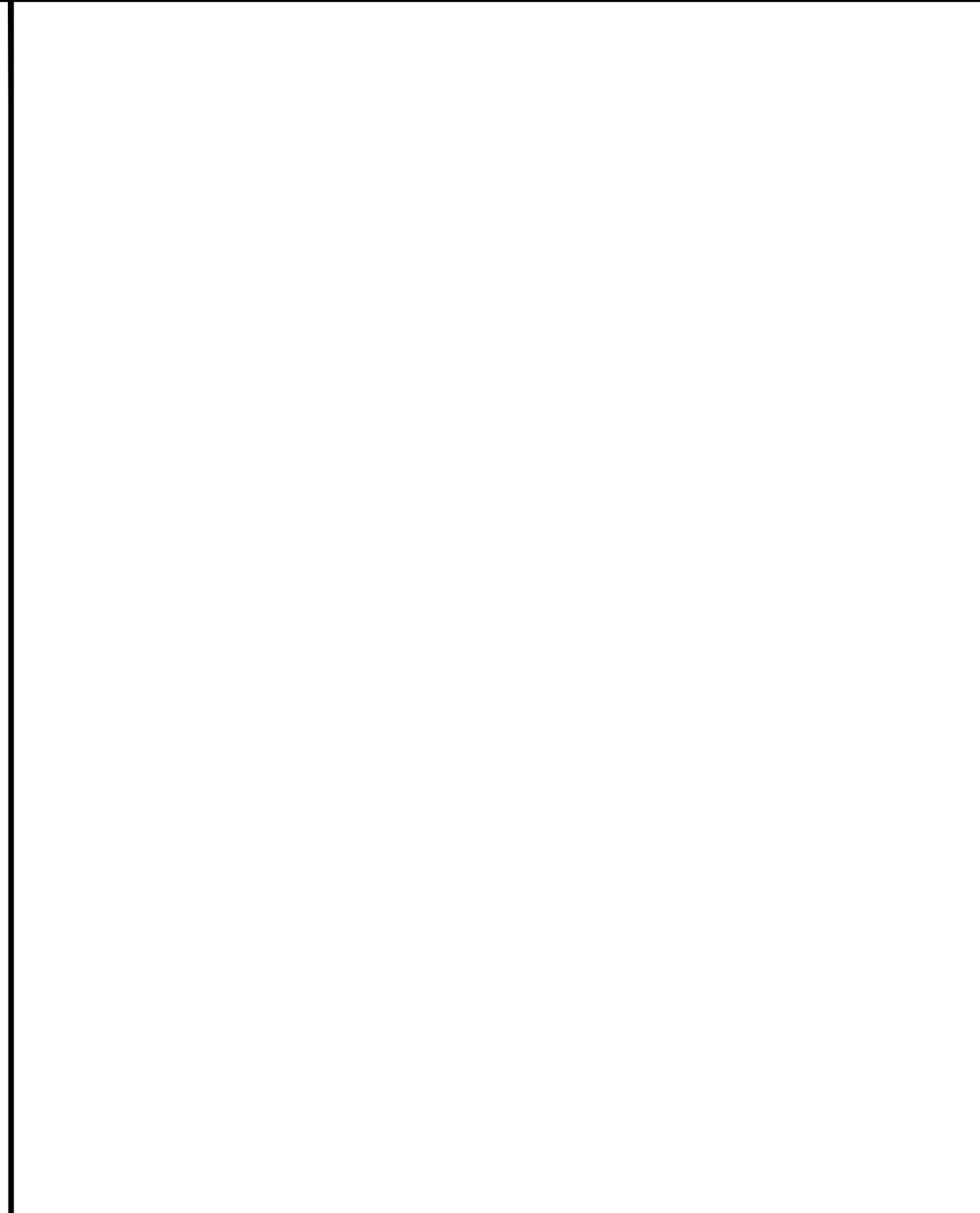
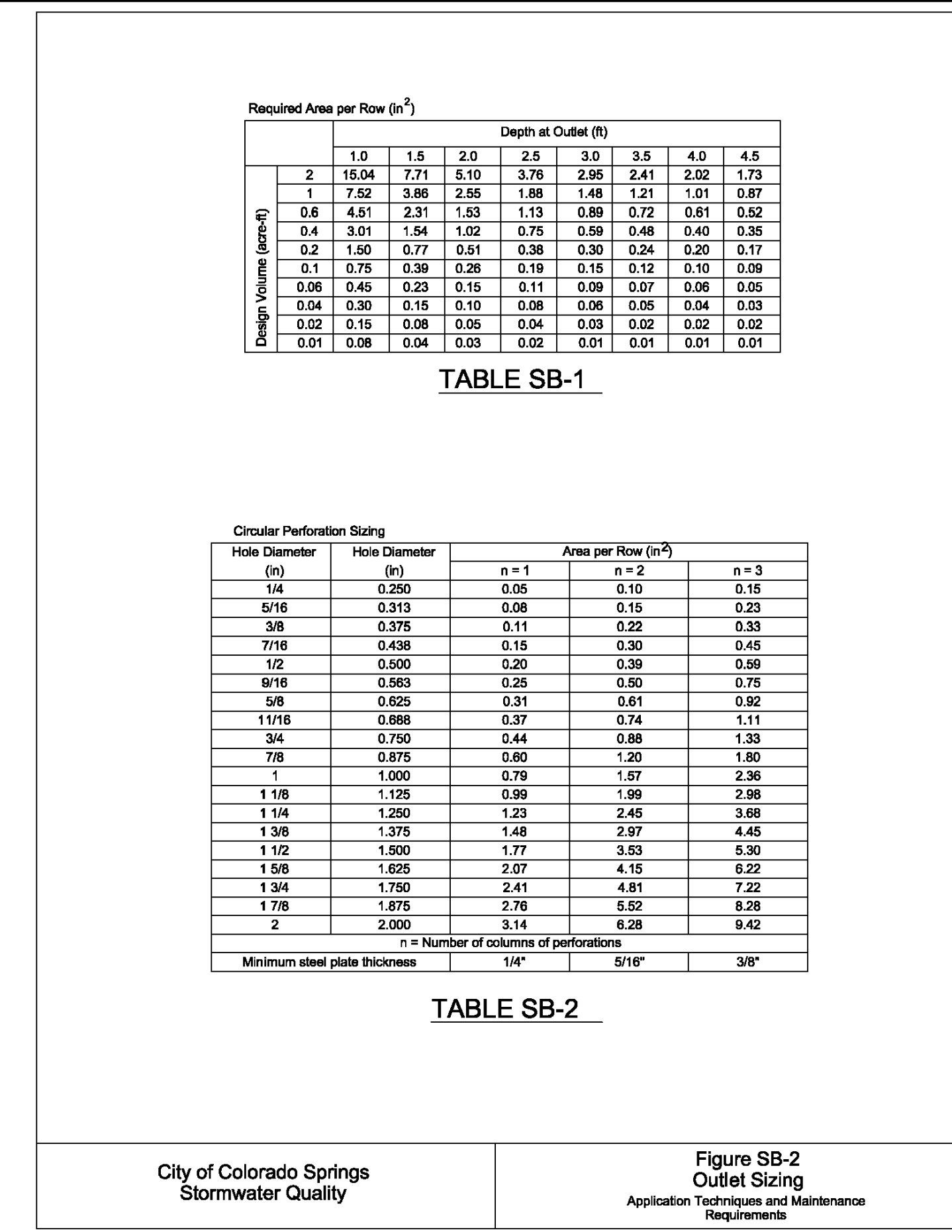
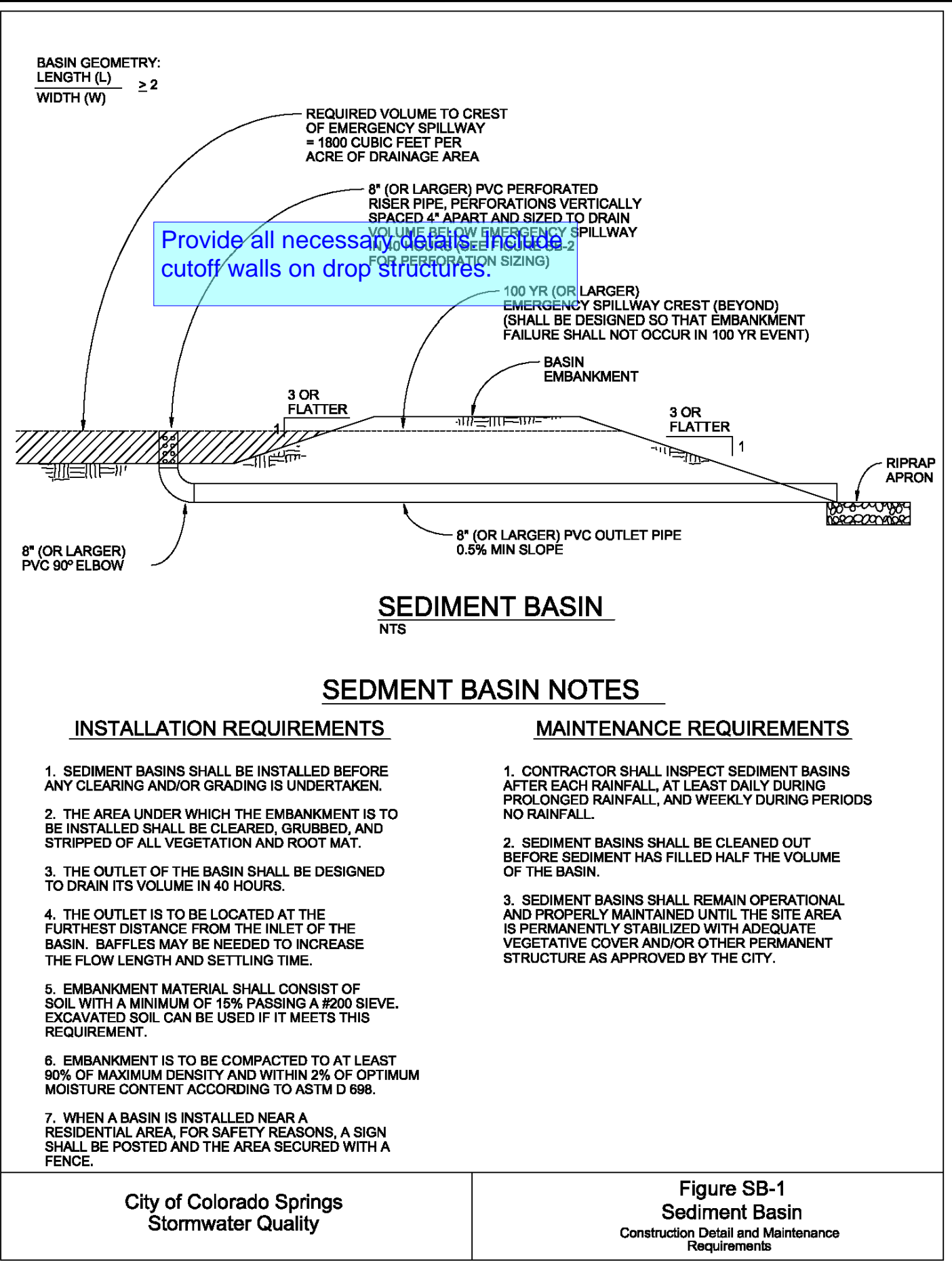
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 DR HORTON  
 FALCON, COLORADO

CONSTRUCTION DOCUMENTS  
 DETAILS

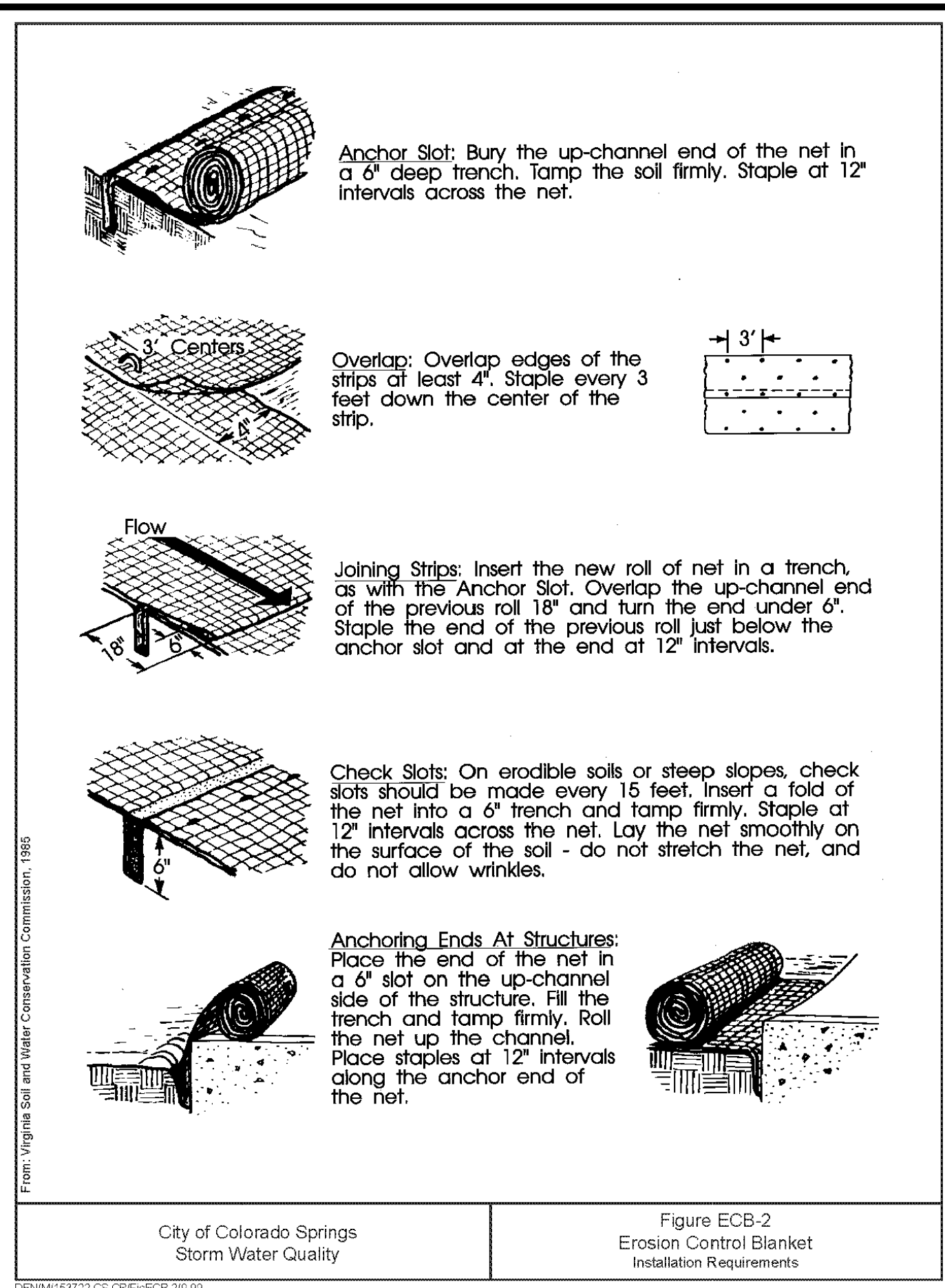
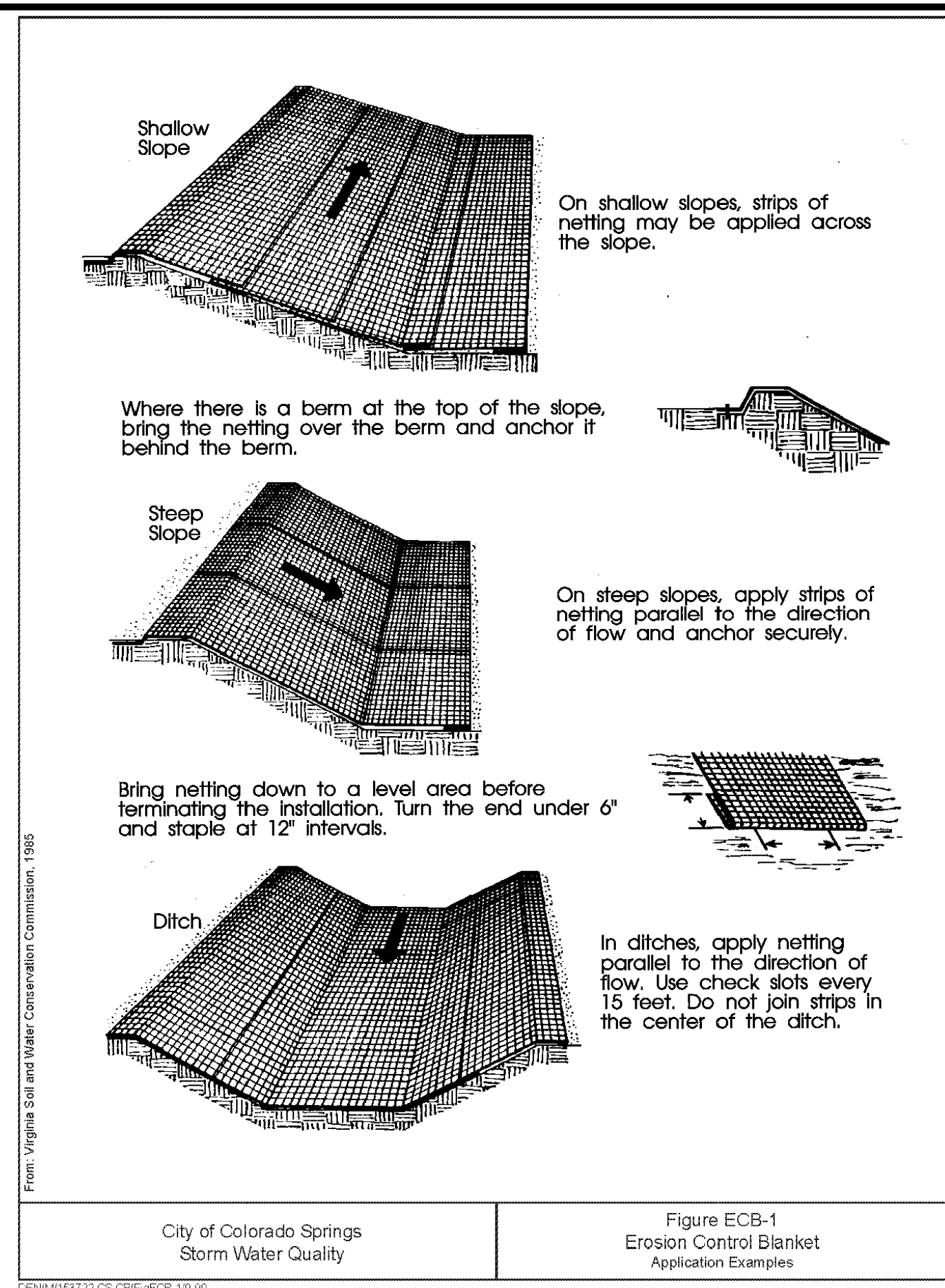
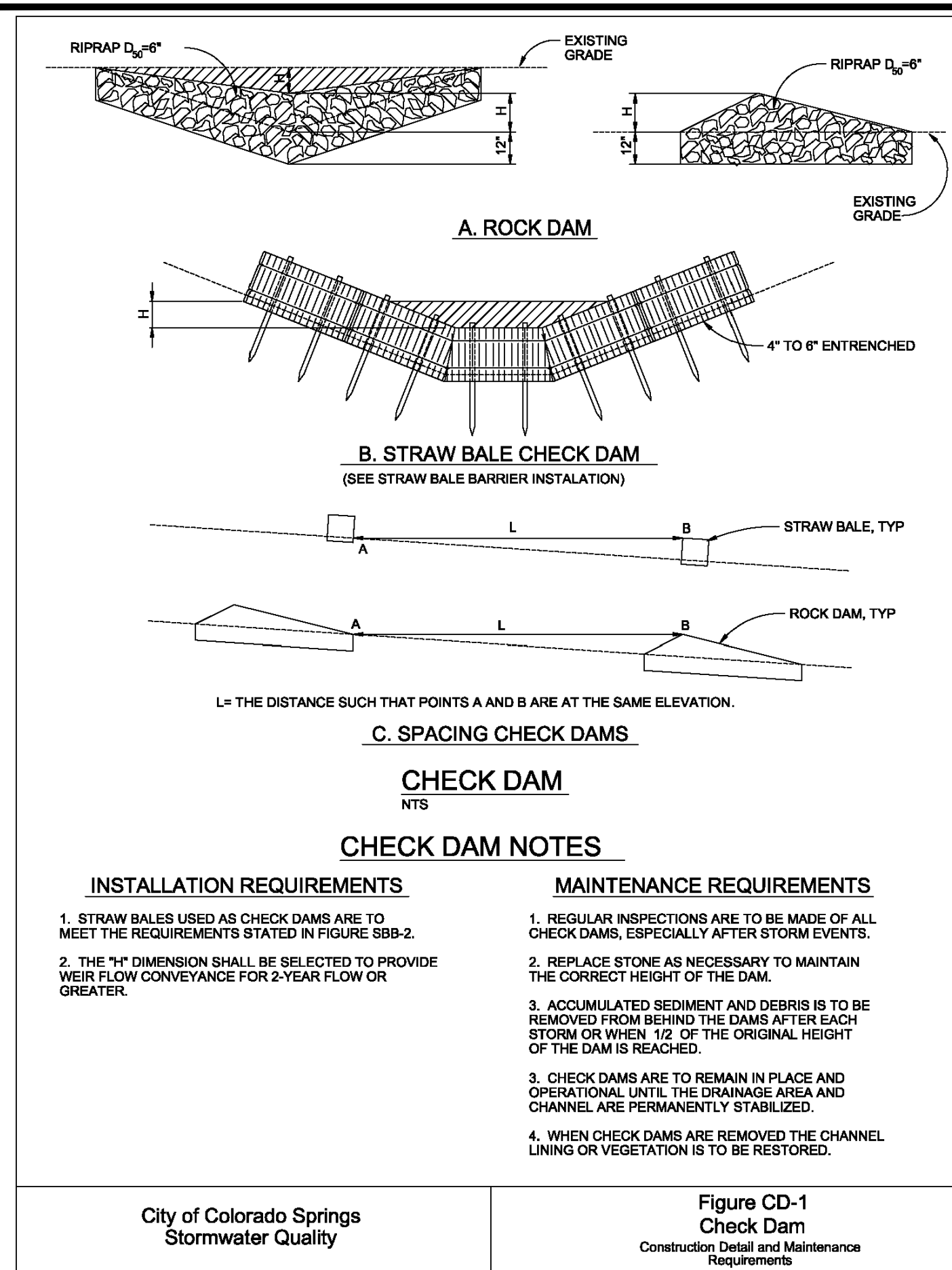
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41









**RECOMMENDED ANNUAL GRASSES**

SPECIES (COMMON NAME)	GROWTH SEASON	SEEDING DATE	POUNDS OF PURE LIVE SEED (PLS) (PLS/ACRE)	PLANTING DEPTH (INCHES)
1. OATS	COOL	MARCH 16 - APRIL 30	35-50	1-2
2. SPRING WHEAT	COOL	MARCH 16 - APRIL 30	25-35	1-2
3. SPRING BARLEY	COOL	MARCH 16 - APRIL 30	25-35	1-2
4. ANNUAL RYEGRASS	COOL	MARCH 16 - JUNE 30	10-15	1/2
5. MILLET	WARM	MAY 16 - JULY 15	3-15	1/2-3/4
6. SUDANGRASS	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
7. SORGHUM	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
8. WINTER WHEAT	COOL	SEPTEMBER 1 - 30	20-35	1-2
9. WINTER BARLEY	COOL	SEPTEMBER 1 - 30	20-35	1-2
10. WINTER RYE	COOL	SEPTEMBER 1 - 30	20-35	1-2
11. TRITICALE	COOL	SEPTEMBER 1 - 30	25-40	1-2

THIS TABLE WAS TAKEN FROM UDFCD FOR RECOMMENDED ANNUAL GRASSES FOR THE DENVER METROPOLITAN AREA. THIS TABLE MAY BE USED UNLESS A SITE-SPECIFIC SEED MIX IS REQUESTED AND APPROVED.

**TABLE TS-1**

**TEMPORARY SEEDING NOTES**

**INSTALLATION REQUIREMENTS**

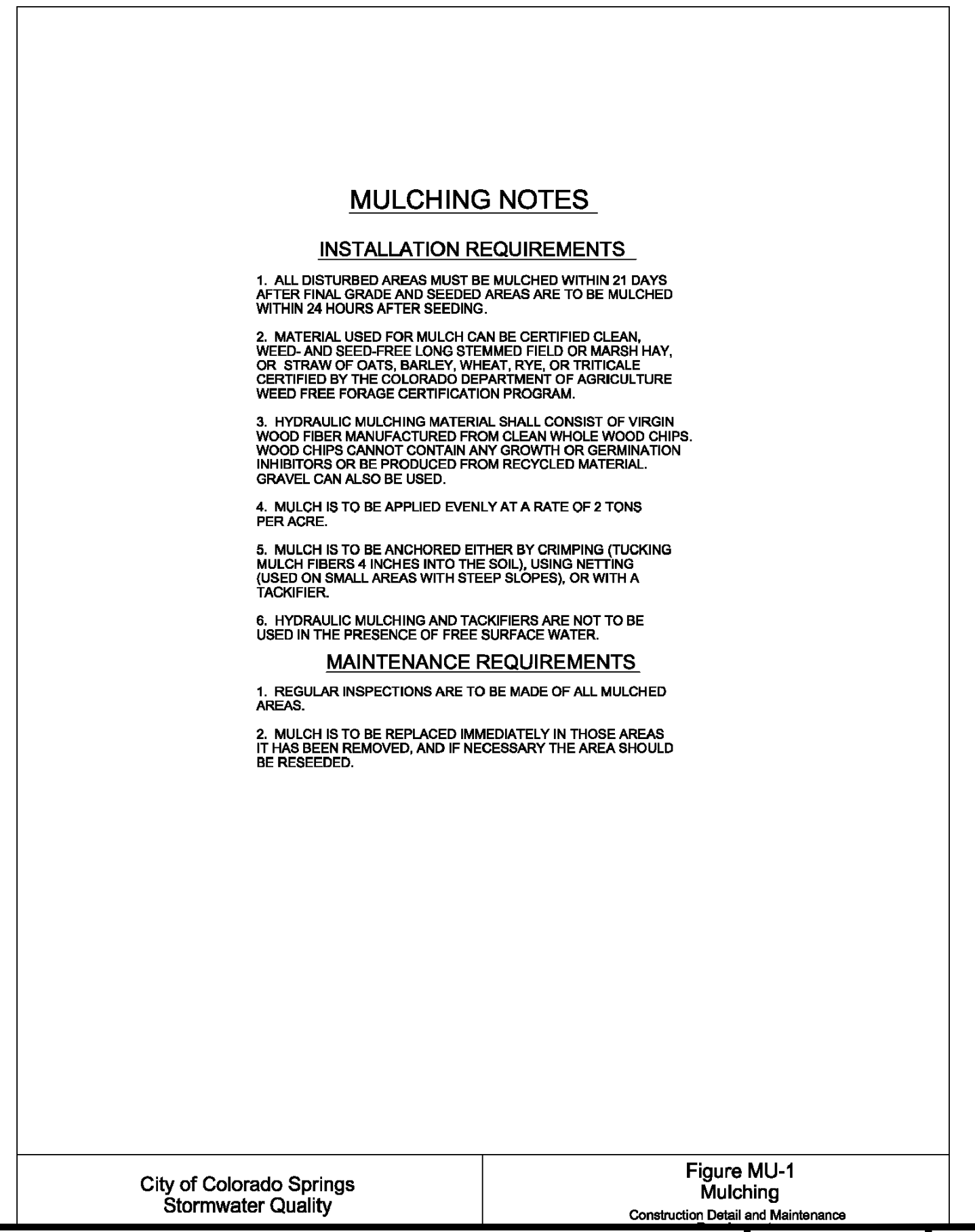
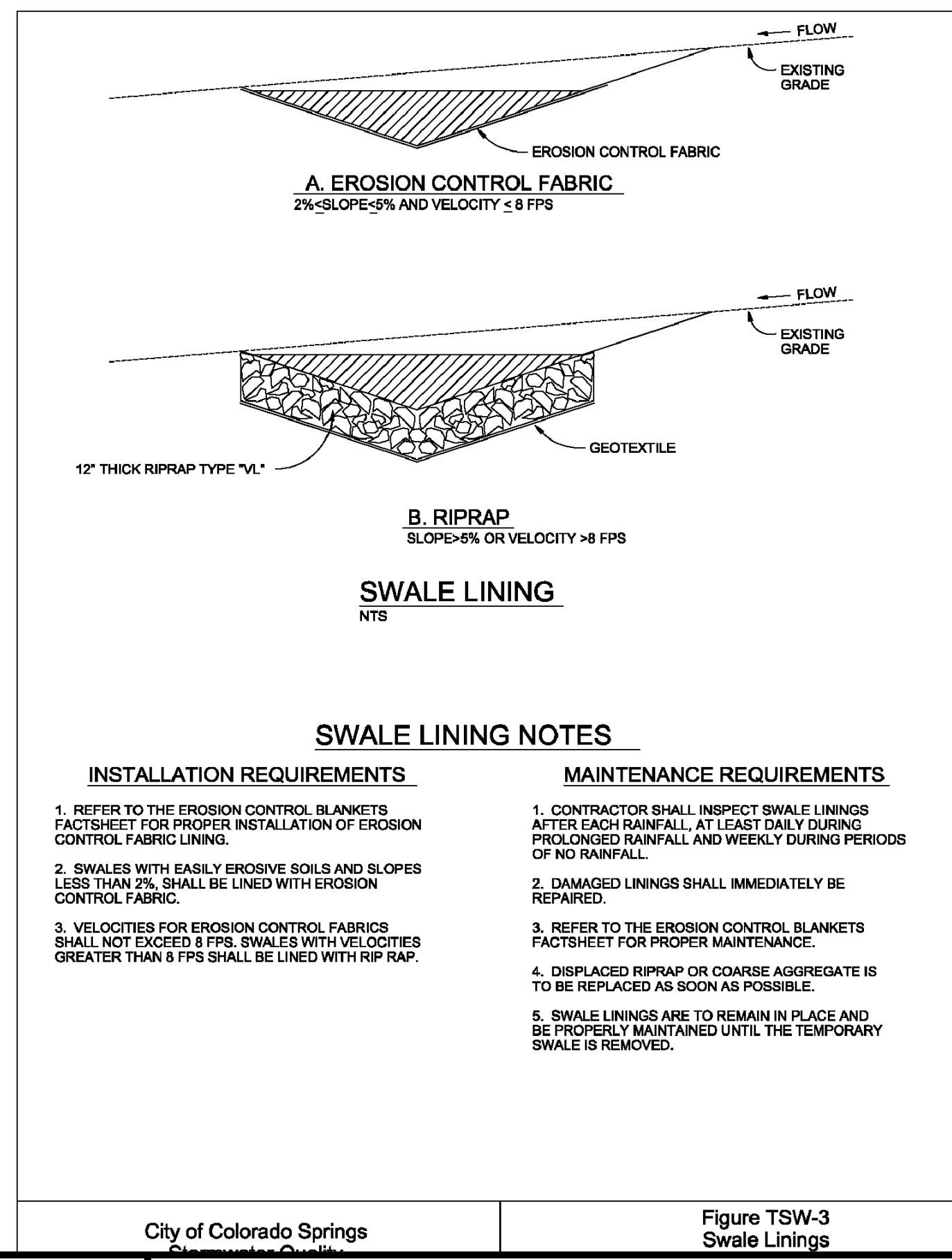
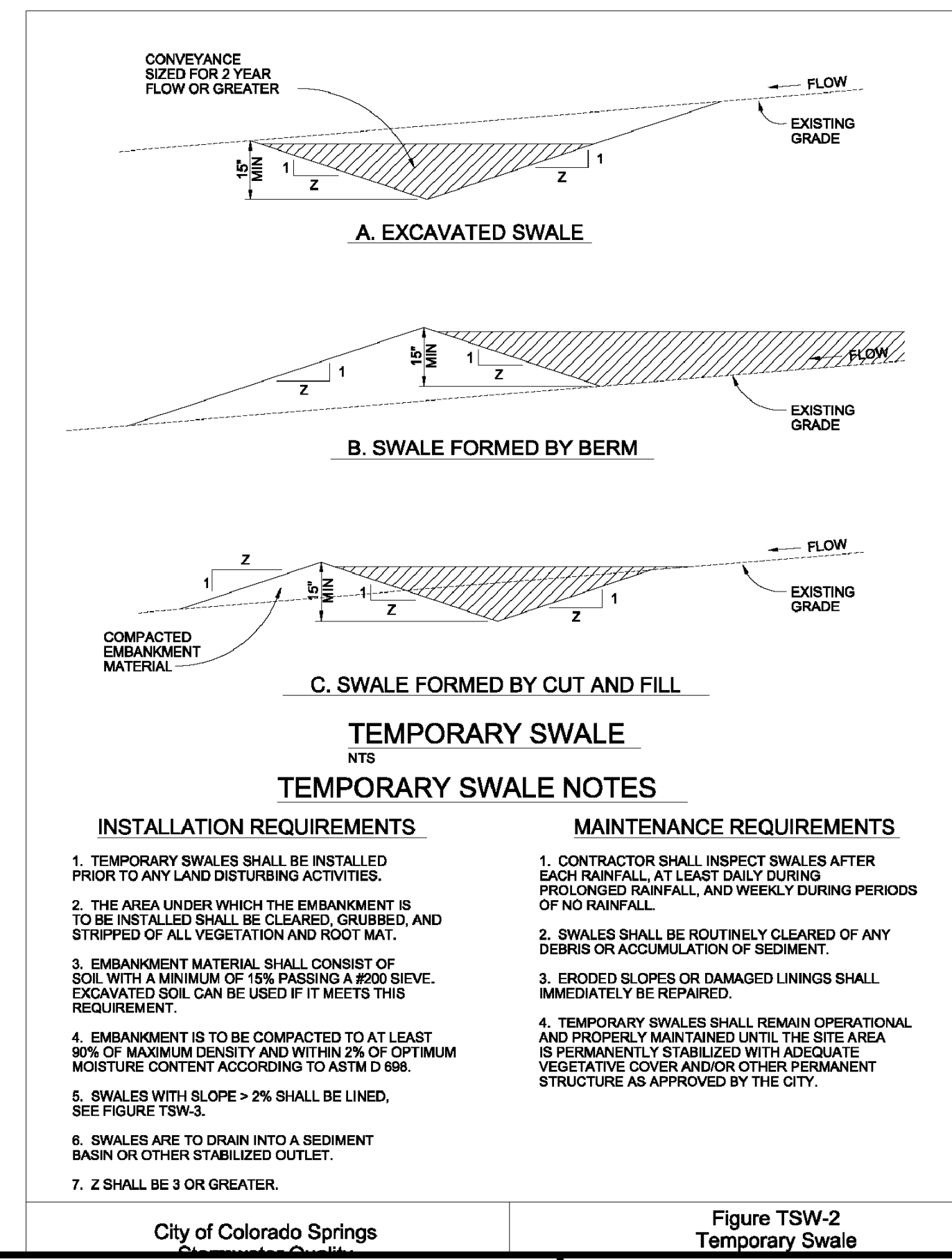
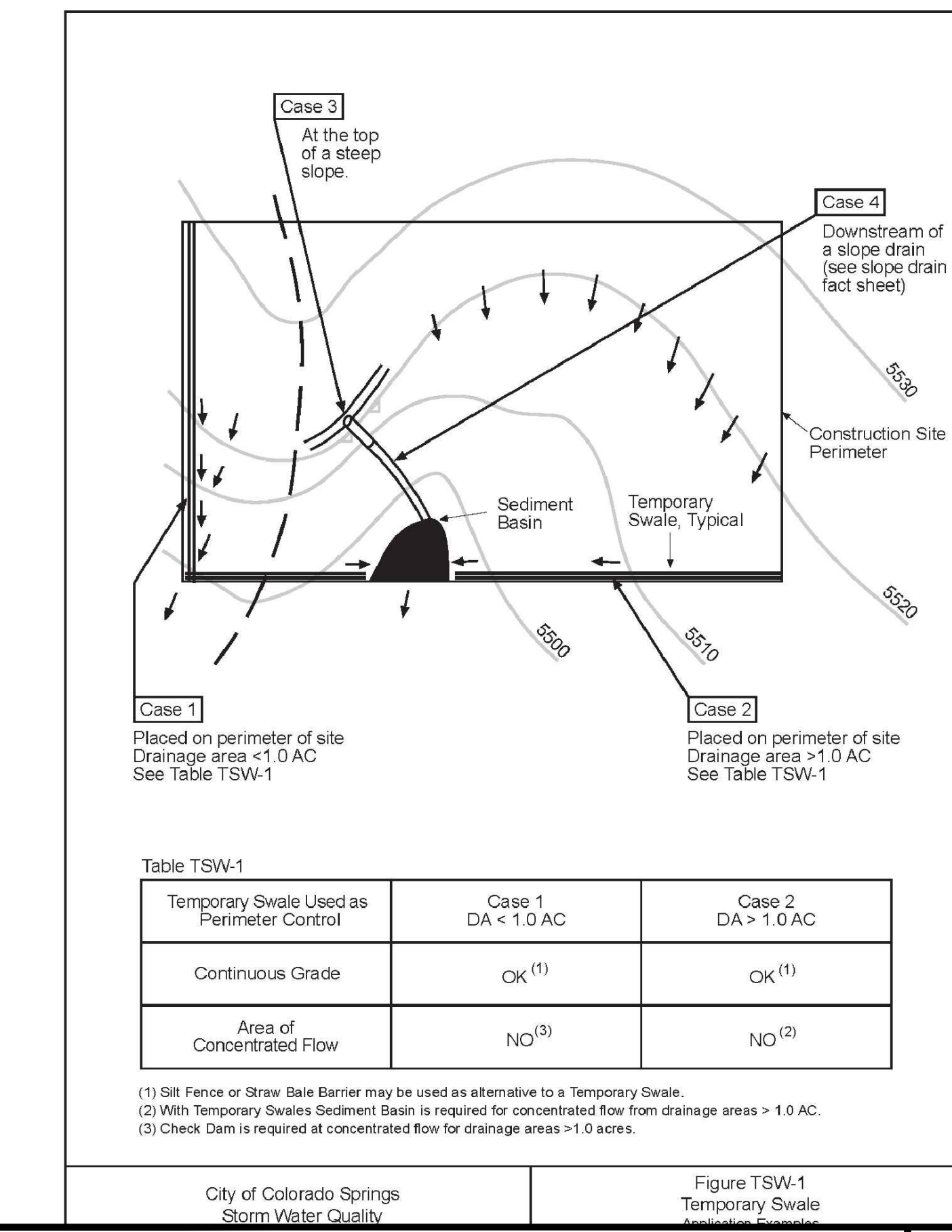
1. DISTURBED AREAS ARE TO BE SEEDED WITHIN 21 DAYS AFTER CONSTRUCTION ACTIVITY OR GRADING ENDS IF SEASON ALLOWS.
2. IF NECESSARY, SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY APPLYING TOPSOIL, FERTILIZER, OR LIME.
3. SOIL IS TO BE TILLED IMMEDIATELY PRIOR TO APPLYING SEEDS. COMPACT SOILS ESPECIALLY NEED TO BE LOOSENED.
4. SEEDED DEPTH IS TO BE 4 INCHES FOR SLOPES FLATTER THAN 2:1, AND 1 INCH FOR SLOPES STEEPER THAN 2:1.
5. ANNUAL GRASSES LISTED IN TABLE TS-1 ARE TO BE USED FOR TEMPORARY SEEDING. SEED MIXES ARE NOT TO CONTAIN ANY NOXIOUS WEED SEEDS INCLUDING RUSSIAN OR CANADIAN THISTLE, KNAPWEED, PURPLE LOOSESTRIFE, EUROPEAN BINDWEED, JOHNSON GRASS, AND LEAFY SPURGE.
6. TABLE TS-1 ALSO PROVIDES REQUIREMENTS FOR SEEDING RATES, SEEDING DATES, AND PLANTING DEPTHS FOR THE APPROVED TYPES OF ANNUAL GRASSES.
7. SEEDING IS TO BE APPLIED USING MECHANICAL TYPE DRILLS EXCEPT WHERE SLOPES ARE STEEP OR ACCESS IS LIMITED THEN HYDRAULIC SEEDING MAY BE USED.
8. ALL SEEDED AREAS ARE TO BE MULCHED (SEE FACTSHEET ON MULCHING).
9. IF HYDRAULIC SEEDING IS USED THEN HYDRAULIC MULCHING SHALL BE DONE SEPARATELY TO AVOID SEEDS BECOMING ENCAPSULATED IN THE MULCH.

**MAINTENANCE REQUIREMENTS**

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL SEEDED AREAS TO ENSURE GROWTH.
2. AREAS WHERE GROWTH IS NOT OCCURRING QUICKLY OR THE MULCH HAS BEEN REMOVED SHALL BE RE-SEEDED AS SOON AS POSSIBLE AND RE-MULCHED IF NEEDED.
3. SEEDED AREAS ARE NOT TO BE DRIVEN OVER WITH CONSTRUCTION EQUIPMENT OR VEHICLES.

City of Colorado Springs Stormwater Quality

Figure TS-1  
Temporary Seeding  
Construction Detail and Maintenance Requirements



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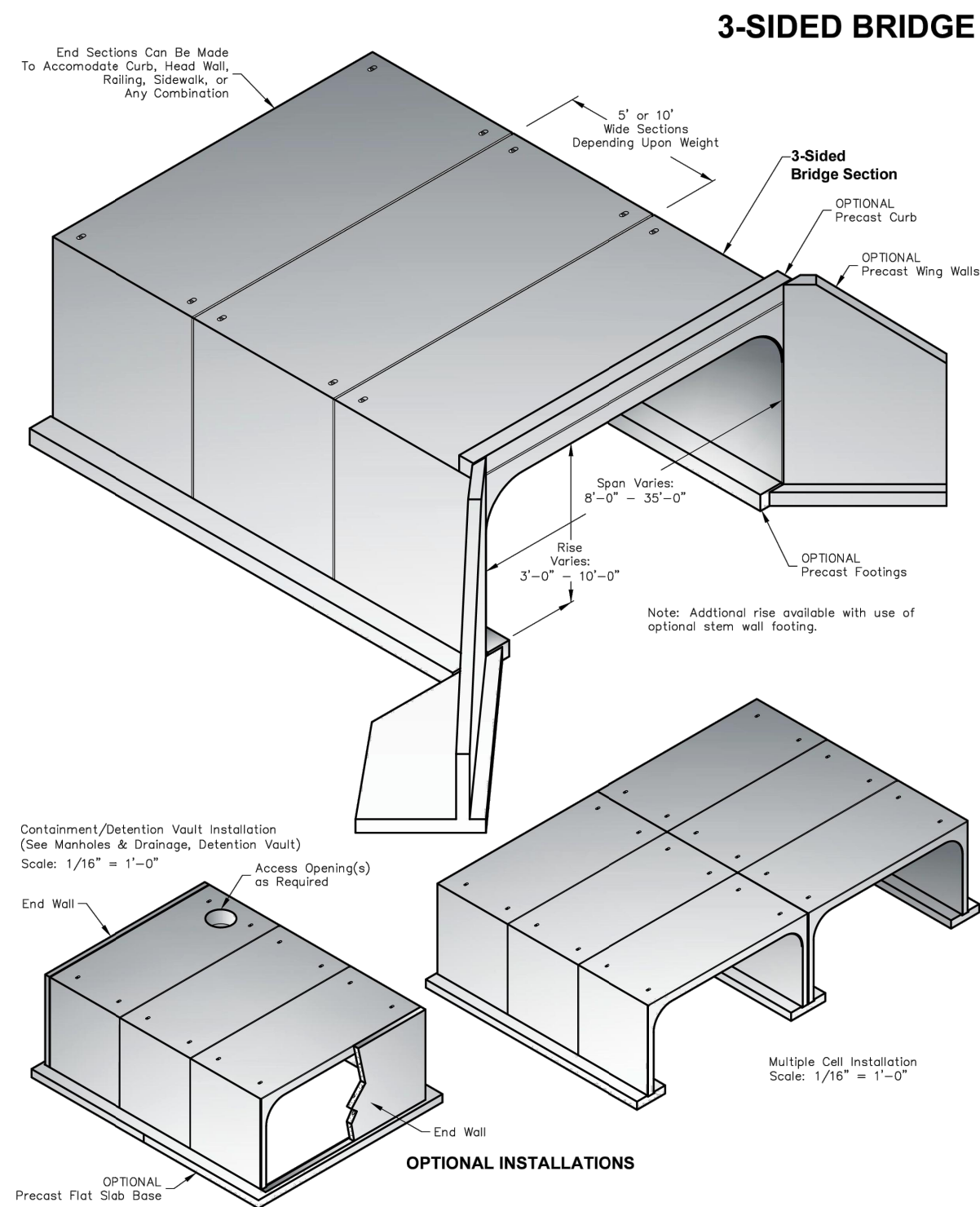
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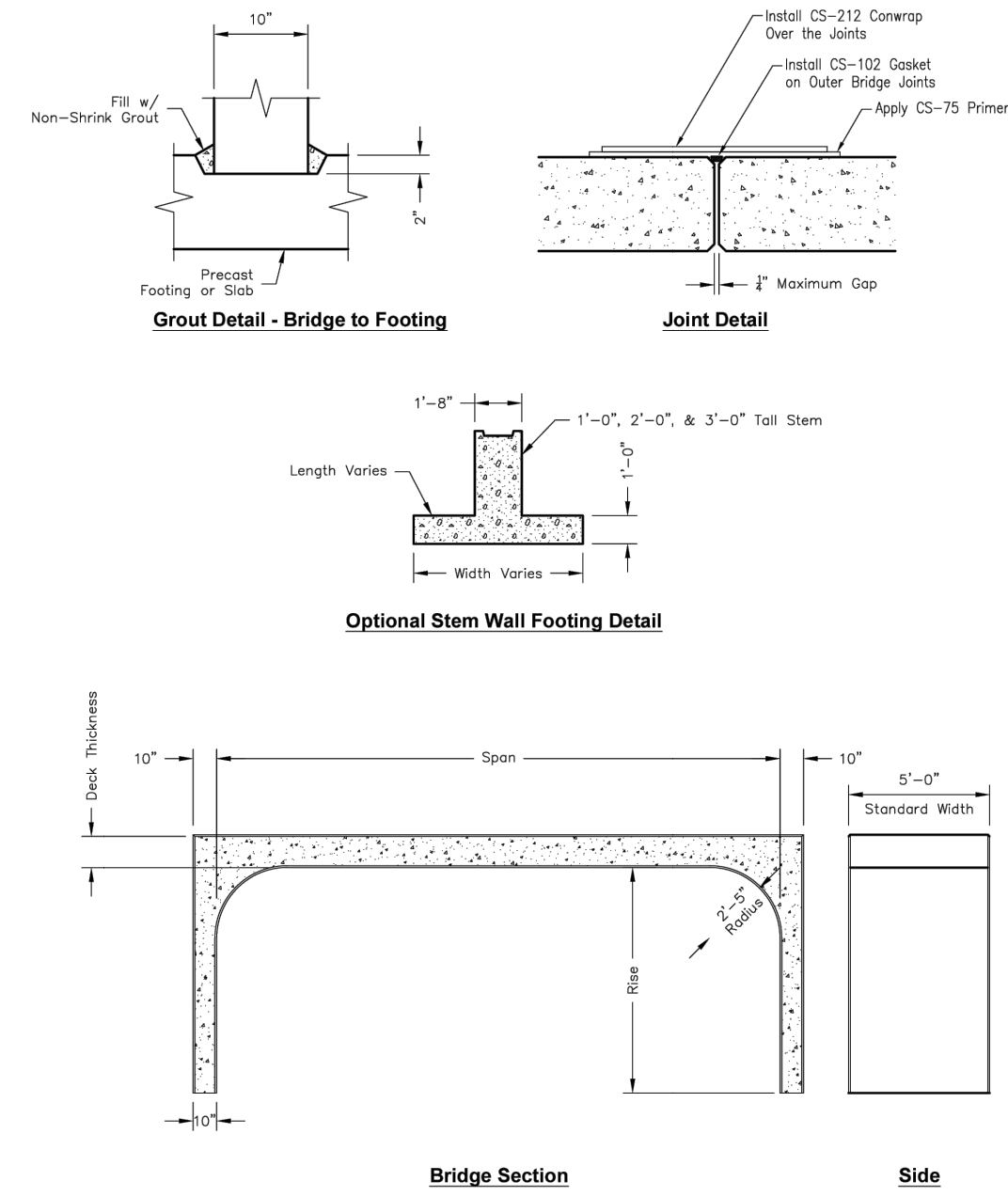




<p>PO Box 323, Wilsonville, Oregon 97070-0323 Tel: (503) 682-2844 Fax: (503) 682-2857</p>	<b>3-SIDED BRIDGE</b> File Name: 020-3-SIDED BRIDGE Issue Date: 2016 <a href="http://oldcastleprecast.com/wilsonville">oldcastleprecast.com/wilsonville</a>	<b>3-SIDED BRIDGE</b>
	Scale: 1/16" = 1'-0" Access Opening(s) as Required	

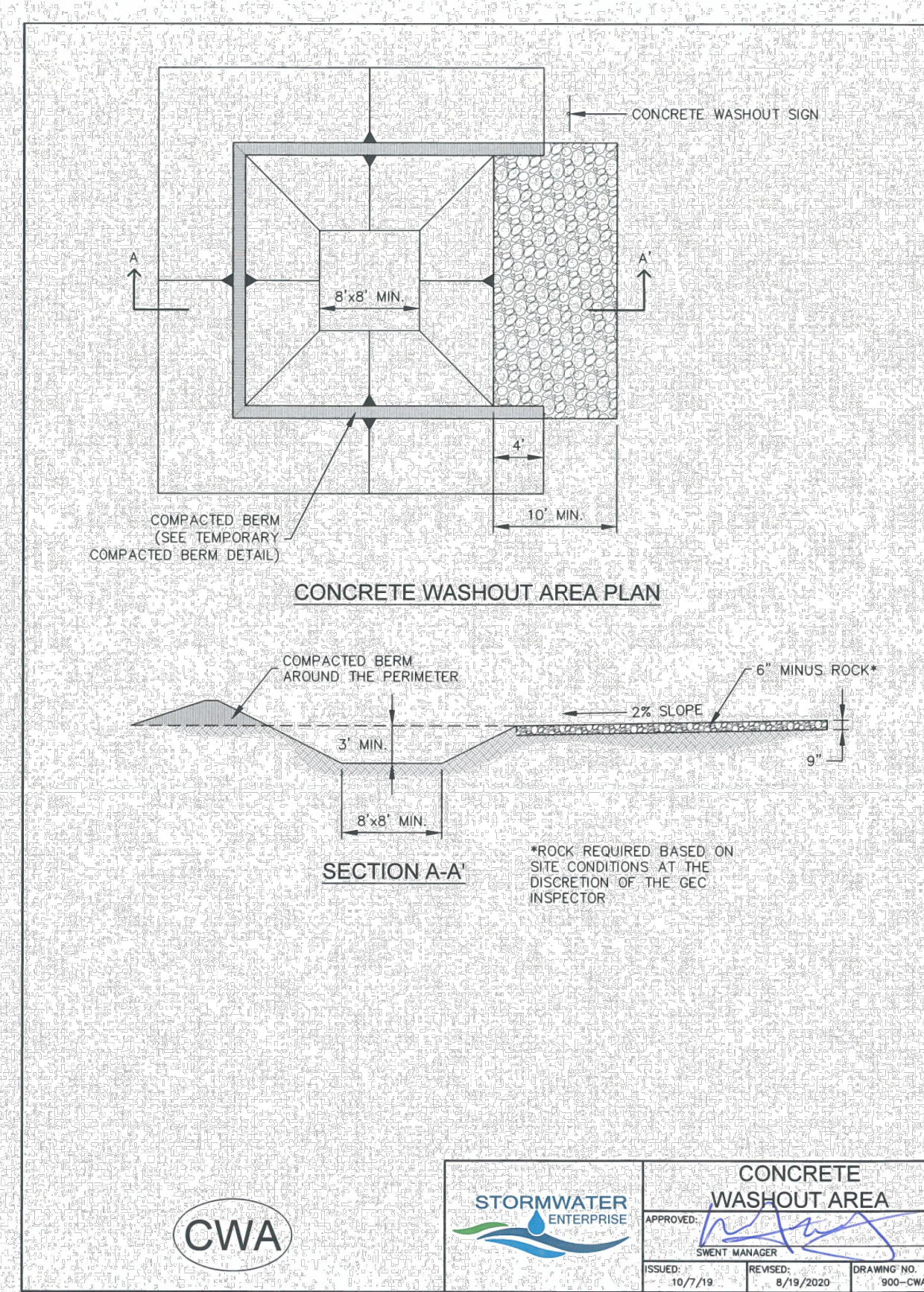
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**3-SIDED BRIDGE**



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	Scale: 1/16" = 1'-0" Access Opening(s) as Required	

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| <p><b>INSTALLATION NOTES</b></p> <ol style="list-style-type: none"> <li>SEE PLAN VIEW FOR LOCATION OF CONCRETE WASHOUT AREA.</li> <li>LOCATE AT LEAST 50' AWAY FROM STATE WATERS MEASURED HORIZONTALLY.</li> <li>AN IMPERMEABLE LINER (16 MIL. MINIMUM THICKNESS) IS REQUIRED IF CONCRETE WASH AREA IS LOCATED WITHIN 400' OF STATE WATERS OR 1000' OF WELLS OR DRINKING WATER SOURCES.</li> <li>DO NOT LOCATE IN AREAS WHERE SHALLOW GROUNDWATER MAY BE PRESENT.</li> <li>THE CONCRETE WASH AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.</li> <li>CONCRETE WASH AREA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8'.</li> <li>BERM SURROUNDING SIDES AND BACK OF CONCRETE WASH AREA SHALL HAVE A MINIMUM HEIGHT OF 2 FEET.</li> <li>CONCRETE WASH AREA ENTRANCE SHALL BE SLOPED 2% TOWARDS THE CONCRETE WASH AREA.</li> <li>SIGNS SHALL BE PLACED AT THE CONCRETE WASH AREA.</li> <li>USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.</li> </ol> | <p><b>MAINTENANCE NOTES</b></p> <ol style="list-style-type: none"> <li>FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.</li> <li>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 2/3 THE HEIGHT OF THE CONCRETE WASH AREA.</li> <li>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.</li> <li>THE CONCRETE WASH AREA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.</li> <li>PERMANENTLY STABILIZE AREA AFTER CONCRETE WASH AREA IS REMOVED.</li> </ol> |
|--|---|

		<b>CONCRETE WASHOUT AREA</b> APPROVED: [Signature] SHEET MANAGER
		ISSUED: 10/7/19 REVISION: 8/19/2020 DRAWING NO: 900-CWA-1

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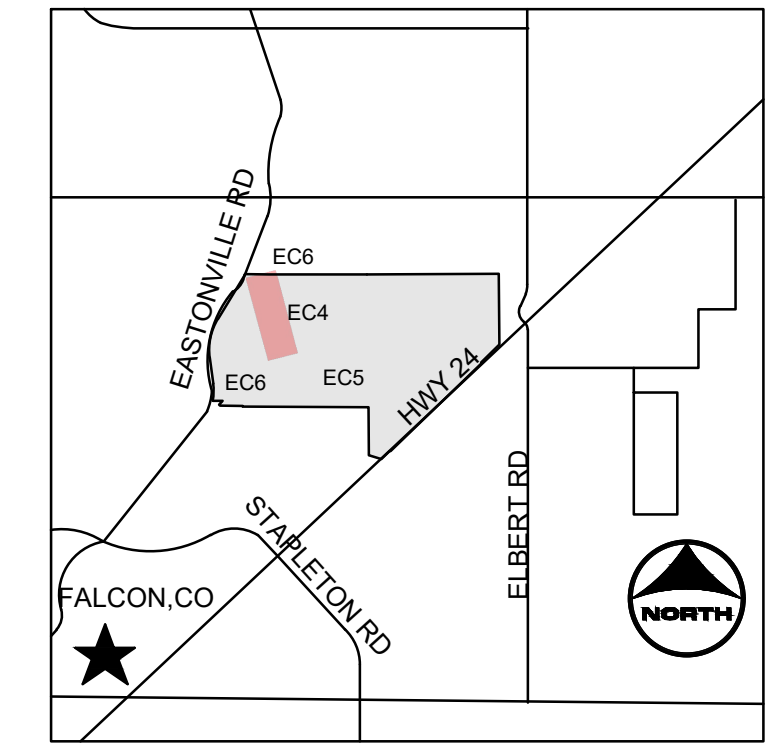
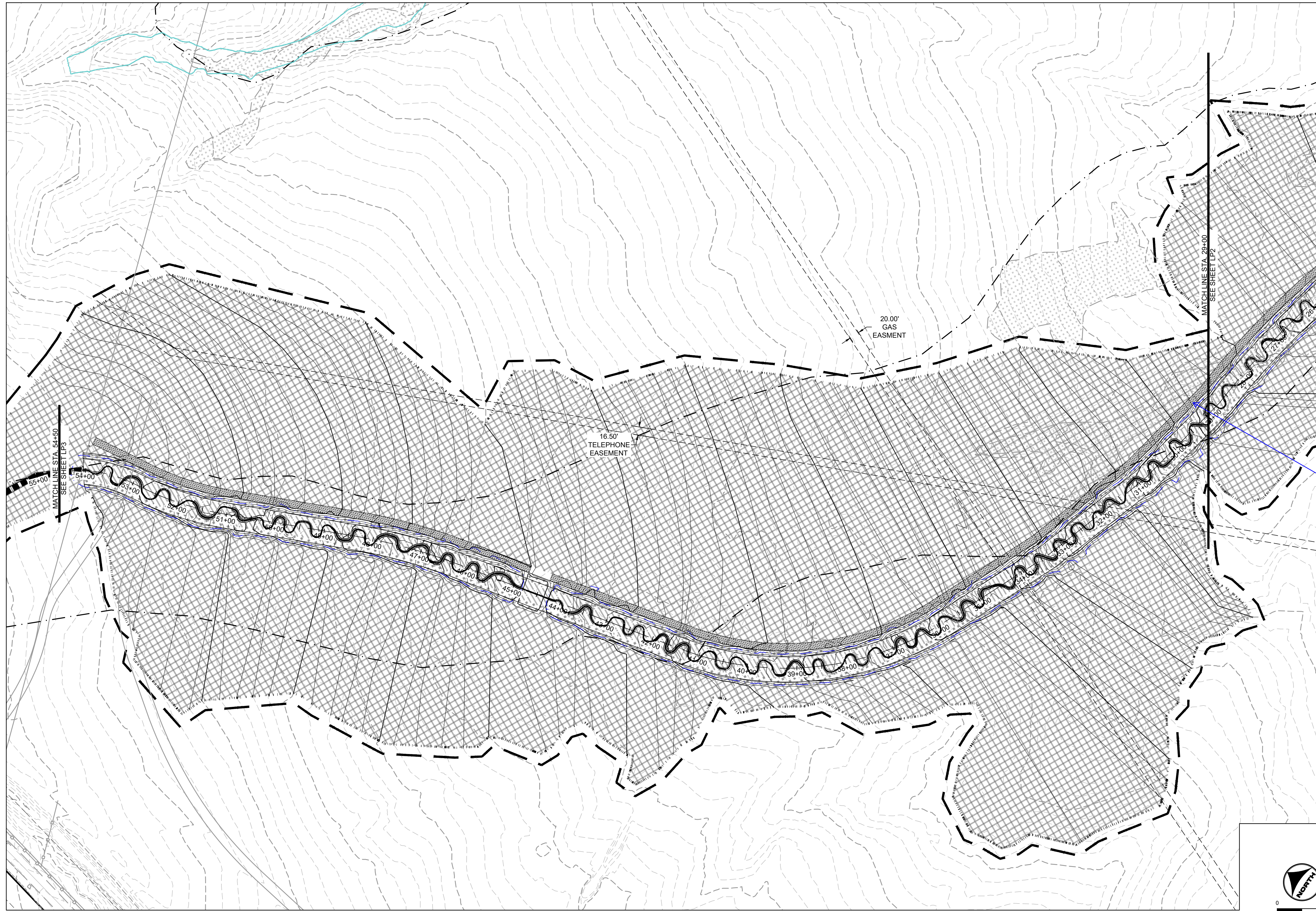
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HR GREEN Xrefs: sgi-c-dm01; FINAL EROSION CONTROL KEY: 01-XC-FINAL-EC-01\_LXC\_BIRAP-F-01-XC-PR\_100YR\_FP\_DELINEATION; s-dgn: 01-XC-channel; xv-row: 662; xv-dgn: 662



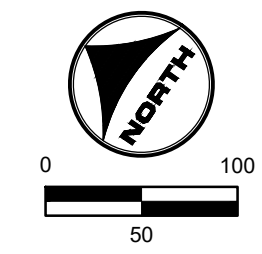
KEYMAP

GROUNDCOVER LEGEND

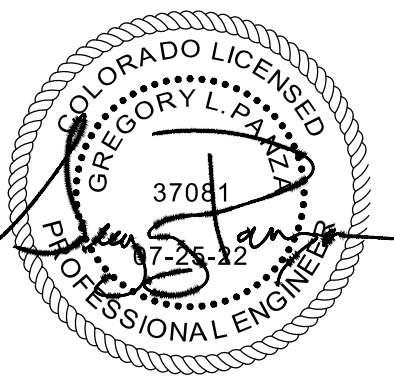
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	RIPARIAN SEED MIX
	WETLAND SEED MIX
	MAINTENANCE TRAIL
	PROPOSED 100-YR FLOODPLAIN
	EXISTING 100 YR FLOODPLAIN

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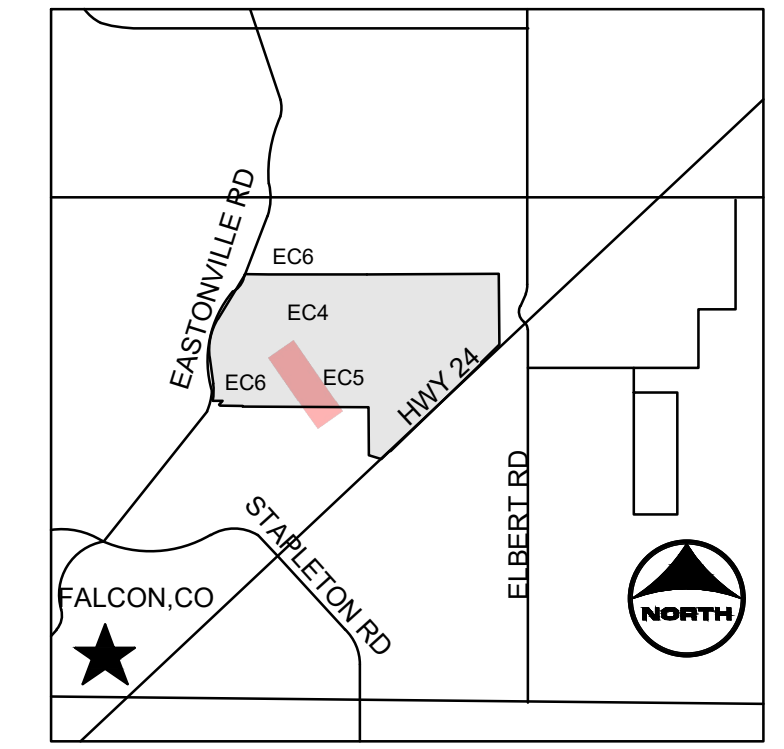
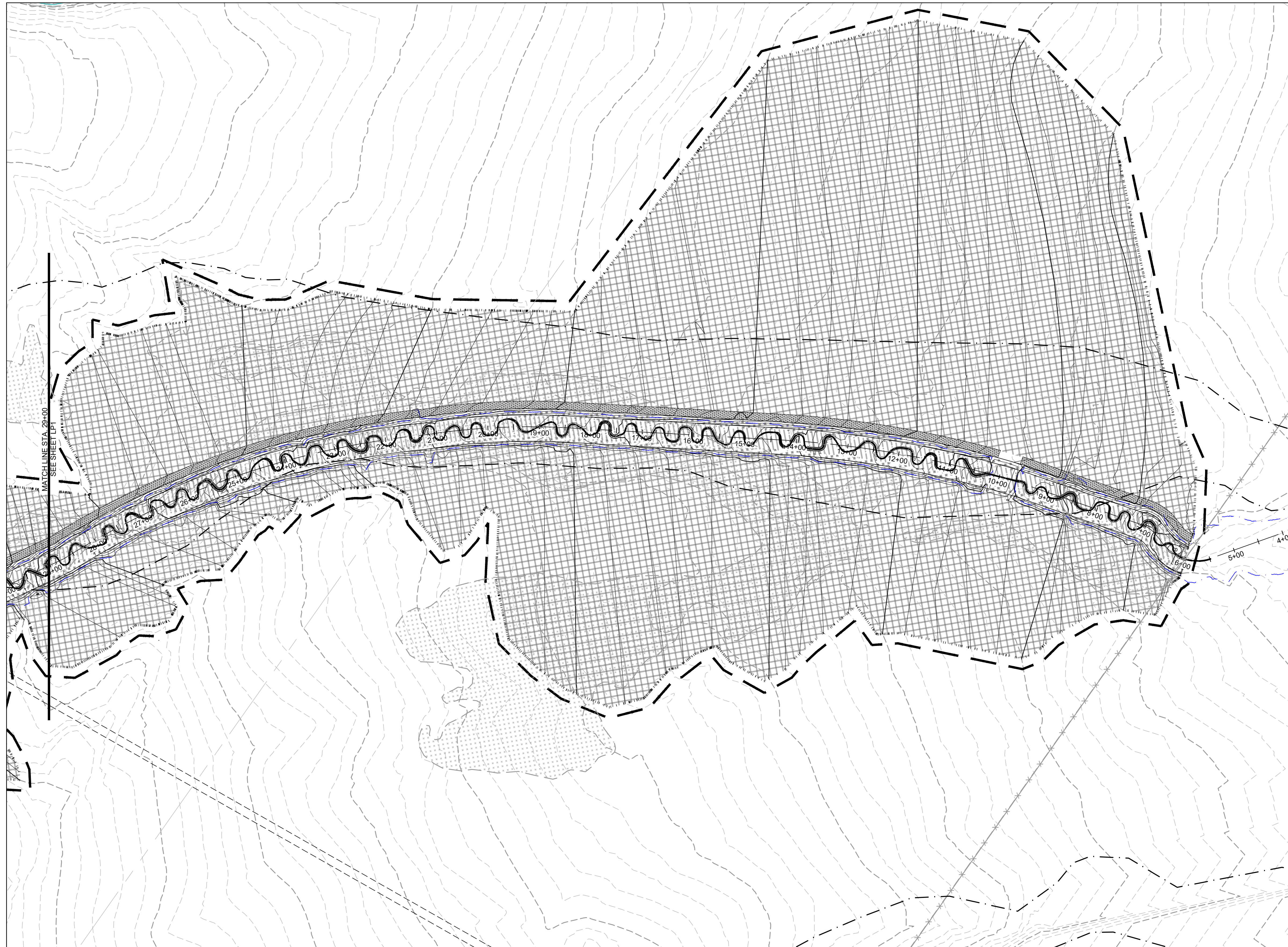
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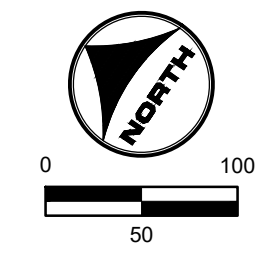


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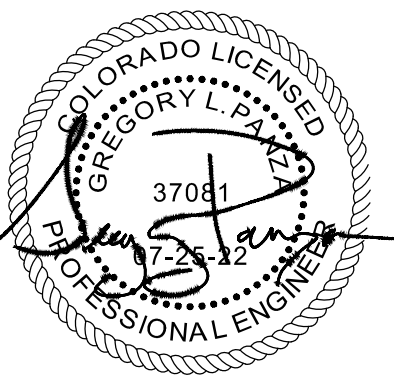
GROUNDCOVER LEGEND

SYMBOL	DESCRIPTION
	UPLAND AREA SEED MIX
	RIPARIAN SEED MIX
	WETLAND SEED MIX
	MAINTENANCE TRAIL
	PROPOSED 100-YR FLOODPLAIN
	EXISTING 100 YR FLOODPLAIN

HR GREEN Xrefs: sgi-c-dh01; FINAL EROSION CONTROL KEY: 01-XC-FINAL-EC-01\_XC\_RIPRAP-01-XC-PR\_100YR\_FP\_DELINEATION; s-dgn: 01-XC-channel; xv-row: 662; xv-dgn: 662



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**GENERAL SEEDING PLAN NOTES:**

- LANDSCAPE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES NECESSARY TO FURNISH AND INSTALL SEEDING AS SPECIFIED HEREIN AND AS SHOWN ON THESE PLANS.
- NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT LANDSCAPE ARCHITECT'S APPROVAL. ALTERNATE MATERIALS OF SIMILAR SIZE AND CHARACTER MAY BE CONSIDERED IF SPECIFIED PLANT MATERIALS CANNOT BE OBTAINED. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REVISE PLANT LIST AS DEEMED NECESSARY.
- CONTRACTOR SHALL LOCATE ALL UTILITIES BEFORE WORK. UTILITIES HAVE BEEN SHOWN ON PLAN FOR ROUGH LOCATION OF SERVICES. LOCATE EXACT UTILITY LOCATIONS BY CONTACTING "CALL BEFORE YOU DIG" AT (800) 922-1987 OR 811. CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE HE MAY CAUSE TO UTILITIES.
- REMOVE ALL RUBBISH, EQUIPMENT, AND MATERIAL AND LEAVE THE AREA IN A NEAT, CLEAN CONDITION EACH DAY. MAINTAIN PAVED AREAS UTILIZED FOR HAULING EQUIPMENT AND MATERIALS BY OTHER TRADES IN A CLEAN AND UNOBSTRUCTED CONDITION AT ALL TIMES.
- STORAGE OF ANY MATERIALS, BUILDINGS, VEHICLES OR EQUIPMENT, FENCING AND WARNING SIGNS SHALL BE MAINTAINED THROUGHOUT THE SITE WORK AND CONSTRUCTION PERIODS BY THE CONTRACTOR.

**IRRIGATION:**

- ALL NATIVE LOW GROW SEEDING SHALL BE TEMPORARILY IRRIGATED UNTIL ESTABLISHMENT.
- THE CONTRACTOR SHALL PROVIDE WATER, WATERING DEVICES, AND LABOR NEEDED TO IRRIGATE PLANT MATERIALS UNTIL AUTOMATIC IRRIGATION SYSTEMS ARE OPERATIONAL AND ACCEPTED. THE CONTRACTOR SHALL SUPPLY ENOUGH WATER TO MAINTAIN THE PLANT'S HEALTHY CONDITION BASED ON SEASONAL CONSIDERATIONS

**REVEGETATION NOTES:**

- MATERIALS PLANTED PRIOR TO INSPECTION AND ACCEPTANCE OF PLANTS DELIVERED TO THE SITE ARE SUBJECT TO REJECTION.
- CONTRACTOR IS RESPONSIBLE FOR DETERMINING SOURCE LOCATIONS (ON- OR OFF-SITE) FOR ALL HARVESTED MATERIALS. OFF-SITE PLANT MATERIALS SHALL ONLY BE USED UPON APPROVAL.
- SEEDING OR PLANTING SHALL NOT OCCUR WHEN THE GROUND IS FROZEN, WHEN FREEZING TEMPERATURES ARE FORECASTED WITHIN 24 HOURS, OR WHEN CONDITIONS ARE OTHERWISE UNSUITABLE.
- CONTRACTOR SHALL CONDUCT A SOIL TEST FOR TOP SOIL STOCKPILED ON THE SITE PRIOR TO APPLICATION OF SOIL CONDITIONER, SEEDING OR PLANTING. SOIL TEST SAMPLES SHALL ALSO BE TAKEN APPROXIMATELY EVERY 1,000 FEET ALONG THE GRADED CHANNEL FOR THE SUBGRADE SOILS AND TESTED. A RECOMMENDED SOIL CONDITIONING AMENDMENT AND APPLICATION RATE SHALL BE DETERMINED BASED ON THE SOIL TEST RESULTS. NO SOIL CONDITIONING, SEEDING, OR PLANTING SHALL OCCUR PRIOR TO SOIL TEST AND UNTIL A SOIL CONDITIONING AMENDMENT IS ACCEPTED.
- CONTRACTOR SHALL BE REQUIRED TO SUBMIT SIGNED STATEMENTS OF GUARANTEE AND/OR CERTIFICATIONS FROM VENDORS WHO SUPPLY SEED AND SOIL CONDITIONER STATING THAT THE SEED FURNISHED IS FROM A LOT THAT HAS BEEN TESTED BY A RECOGNIZED LABORATORY FOR SEED TESTING WITHIN TWELVE (12) MONTHS PRIOR TO THE DATE OF SEEDING.
- CONTRACTOR SHALL SUBMIT A LAB TEST OF COMPOST SAMPLE TO BE USED FOR APPROVAL. LAB TEST OF COMPOST SHALL BE TAKEN FROM THE SAME SOURCE THAT IS TO BE USED ON THIS PROJECT. LAB TEST SHALL BE TAKEN A MAXIMUM OF SIX (6) MONTHS PRIOR TO APPLICATION. THE COMPOST SHALL BE TESTED IN ACCORDANCE WITH THE U.S. COMPOSTING COUNCIL'S TEST METHODS FOR EXAMINING OF COMPOSTING AND COMPOST (TMECC) MANUAL.
- ALL MATERIALS SHALL BE FURNISHED IN ORIGINAL MANUFACTURER'S SHIPPING BAGS OR CONTAINERS AND REMAIN IN THESE BAGS OR CONTAINERS UNTIL THEY ARE USED. ALL MATERIALS SHALL BE STORED IN A MANNER THAT WILL PREVENT THEM FROM COMING INTO CONTACT WITH PRECIPITATION, SURFACE WATER, OR ANY OTHER CONTAMINATING SUBSTANCE. ANY MATERIALS THAT HAVE BECOME WET, MOLDY, OR OTHERWISE DAMAGED IN TRANSIT OR IN STORAGE SHALL NOT BE USED.
- ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE FREE OF NOXIOUS WEEDS INCLUDING BUT NOT LIMITED TO RUSSIAN KNAWWEED, DIFFUSE KNAWWEED, CANADA THISTLE, FIELD BINDWEED, JOHNSONGRASS, LEAFY SPURGE, KOCHIA, OR ANY STATE OR DISTRICT CRITERIA MANUAL-LISTED NOXIOUS WEED SPECIES.

**SOIL AMENDMENTS:**

- PLACE TOPSOIL IN ALL WORK AREAS AND AMEND WITH 2 CUBIC YARDS PER 1,000 SQUARE FEET OF COMPOST
- SOIL AMENDMENT SOLUTIONS WILL BE COMPLETED UPON THE COMPLETION OF SOIL TESTING.
- INCORPORATE COMPOST INTO TOPSOIL TO A DEPTH OF 8 TO 12 INCHES

**SEEDING:**

- ALL SEED SHALL BE FURNISHED IN BAGS OR CONTAINERS CLEARLY AND PROPERLY LABELED TO SHOW THE NAME AND ADDRESS OF THE SUPPLIER, THE SEED NAME, THE LOT NUMBER, NET WEIGHT, ORIGIN, THE PERCENT OF WEED SEED CONTENT, THE GUARANTEED PERCENTAGE OF PURITY AND GERMINATION, POUNDS OF PURE LIVE SEED (PLS) OF EACH SEED SPECIES, AND THE TOTAL POUNDS OF PLS IN THE CONTAINER. ALL SEED SHALL BE GUARANTEED FOR PURITY AND GERMINATION, FREE OF NOXIOUS WEED SEED AND SUPPLIED ON A PURE LIVE SEED (PLS) BASIS.
- ALL SPECIFIED SEED MIXES SHALL CONSIST OF CERTIFIED SEED VARIETIES THAT ARE FREE OF NOXIOUS WEEDS AND HAVE BEEN TESTED FOR PURITY AND GERMINATION WITHIN SIX MONTHS OF THE PLANTING DATE. CERTIFICATION LABELS WHICH INDICATE THE SPECIES, PURITY, GERMINATION, WEED CONTENT, ORIGIN, AND TEST DATE SHALL BE SUBMITTED FOR ALL SEED MATERIALS.

**SITE PREPARATION:**

- ALL DISTURBED AREAS SHALL BE RIPPED TO A MINIMUM DEPTH OF EIGHT (8) INCHES, WITH NO MORE THAN A TEN (10) INCH INTERVAL BETWEEN FURROWS. SLOPES FLATTER THAN 2:1 SHALL HAVE A WELL SETTLED SEEDBED EIGHT (8) INCHES DEEP. SLOPES 2:1 OR STEEPER SHALL BE LEFT IN A ROUGHENED CONDITION.
  - SLOPES SHALL BE FREE OF SOIL CLOUDS, STICKS, STONES, AND DEBRIS IN EXCESS OF FOUR (4) INCHES IN ANY DIMENSION, AND BE BROUGHT TO THE DESIRED GRADE AND LINE. SOIL PREPARATION FOR SEEDING SHALL NOT OCCUR WHEN SOIL IS FROZEN OR IN AN EXTREME WET OR DRY CONDITION.

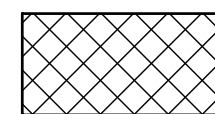
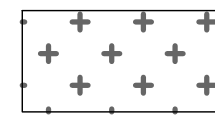
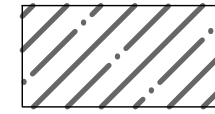
**SEEDING:**

- SEEDING SHALL BE RESTRICTED TO BETWEEN SPRING THAW AND JUNE 1 AND BETWEEN SEPTEMBER 1 UNTIL CONSISTENT GROUND FREEZE AND SHALL NOT BE APPLIED DURING INCLEMENT WEATHER INCLUDING RAIN AND HIGH WINDS, OR WHEN SOIL MOISTURE IS TOO HIGH TO EVENLY DISTRIBUTE SEED. SEEDING SHALL BE ACCOMPLISHED WITHIN 24 HOURS OF PREPARING THE SEEDING SURFACE.
- DRILL SEEDING OR BROADCAST SEEDING SHALL BE USED FOR REVEGETATION. AS OUTLINED BELOW, THE SIZE AND SLOPE OF THE DISTURBED AREA SHALL DETERMINE WHICH SEEDING METHOD(S) IS APPROPRIATE AND ACCEPTABLE. WHERE FEASIBLE, DRILL SEEDING IS THE REQUIRED METHOD. IF BROADCAST SEEDING IS EMPLOYED, EITHER BY HAND, SPREADER, OR OTHER APPROVED MEANS, THE SEEDING RATE (PLS LBS/ACRE) SHALL BE DOUBLED AS SHOWN ON THE DESIGN PLAN. HYDROMULCHING, HYDRAULIC SEEDING AND STRAW MULCHING WILL NOT BE ACCEPTED.
- FOR SLOPES EQUAL TO OR LESS THAN 3:1, SEED SHALL BE PLANTED USING A RANGELAND DRILL WITH A SMALL SEED/LEGUME BOX AND AN AGITATOR BOX FOR FLUFFY OR BULKY SEED. SEED ROWS SHALL BE SPACED SEVEN (7) TO TEN (10) INCHES APART, AND PLANTED ½ INCH TO ¾ INCH DEEP. THE DRILL SHALL HAVE DOUBLE-DISK FURROW OPENERS WITH DEPTH BANDS AND PACKER WHEELS. SEEDING SHALL BE ACCOMPLISHED USING BI-DIRECTIONAL DRILLING AND WITH THE SECOND DIRECTION FOLLOWING THE SLOPE CONTOUR. THE DRILL EQUIPMENT SHALL BE CALIBRATED EACH DAY OR WHENEVER THERE IS A CHANGE IN THE SEED MIX TO ENSURE PROPER SEED DISTRIBUTION AND RATE.
- FOR SLOPES GREATER THAN 3:1, SEED SHALL BE BROADCAST BY HAND OR MECHANICAL SPREADER. ALL SEED SOWN BY BROADCAST-TYPE SEEDERS SHALL BE "RAKED IN" OR COVERED WITH SOIL TO A DEPTH OF AT LEAST ¼ INCH. BROADCAST SEEDING SHALL PROCEED ON FRESHLY DISTURBED (RAKED OR HARROWED) SOIL SURFACE AND BROADCAST SEED SHALL BE IMMEDIATELY RAKED OR HARROWED INTO THE SURFACE. RAKING SHALL BE ACCOMPLISHED USING METAL-TINED GARDEN OR LANDSCAPE RAKES; NO PLASTIC LEAF RAKES SHALL BE ALLOWED. IF HARROWING IS USED, AN ENGLISH HARROW OR ITS EQUIVALENT SHALL BE REQUIRED. BROADCAST SEEDING SHALL BE AVOIDED WHEN WIND SPEED EXCEEDS 15 MILES-PER-HOUR.
- FOLLOWING SEEDING, ALL SEEDED AREAS SHALL BE WATERED SUFFICIENTLY AS TO SATURATE THE SOILS.

**TOPSOIL, SEEDING, AND COCONUT FABRIC NOTES:**

- WITHIN THE PROJECT AREA, ANY AREAS WITH ADEQUATE TOPSOIL (IN PLACES WHERE NOT HARVESTING SOD) SHALL BE STRIPPED AND STOCKPILED FOR REUSE.
- ALL AREAS OF SEEDING WILL RECEIVE 4" OF TOPSOIL.
- IF ONSITE CONDITIONS DO NOT YIELD ADEQUATE TOPSOIL, SOIL CONDITIONER SHALL BE APPLIED.
- IMPORTED SOIL CONDITIONER WILL BE AT A RATE OF 5 CUBIC YARDS PER 1,000 SQUARE FEET. SOIL CONDITIONER SHALL BE EVENLY DISTRIBUTED AND TILLED TO A DEPTH OF 8" MINIMUM.

**GROUND COVER SQUARE FOOTAGE**

SYMBOL	DESCRIPTION
	UPLAND NATIVE SEED MIX 2,623,838 SF
	RIPARIAN NATIVE SEED MIX 530,962 SF
	WETLAND NATIVE SEED MIX 327,903 SF

**UPLAND NATIVE SEED MIX**

Common Name	Scientific Name	Growth Season	Growth Form	% Mix	Lb/Ac (PLS <sup>1</sup> )
<b>Grasses</b>					
Blue grama	Bouteloua gracilis	Warm	Sod	25	1.8
Sand dropseed	Sporobolus cryptandrus	Warm	Bunch	20	0.2
Sideoats grama	Bouteloua curtipendula	Warm	Sod	20	6.3
Western wheatgrass	Pascopyrum smithii	Cool	Sod	15	8.2
Buffalograss	Bouteloua dactyloides	Warm	Sod	10	10.7
Inland saltgrass	Distichlis spicata	Warm	Sod	5	0.6
<b>Herbaceous/Wildflowers</b>					
Pasture sage	Artemisia frigida			1	0.01
Blanket flower	Gaillardia aristata			1	0.5
Prairie coneflower	Ratibida columnifera			1	0.1
Purple prairieclover	Dalea (Petalostemum) purpurea			1	0.3
Blue flax	Linum lewisii			1	0.4
TOTAL PLS POUNDS/ACRE				100	29.11

<sup>1</sup>PLS=PURE LIVE SEED - IF BROADCAST SEEDING, DOUBLE THE RATE

**RIPARIAN NATIVE SEED MIX**

Common Name	Scientific Name	Growth Season	Growth Form	% Mix	Lb/Ac (PLS <sup>1</sup> )
<b>Grasses</b>					
Blue grama	Bouteloua gracilis	Warm	Sod	25	1.8
Sand dropseed	Sporobolus cryptandrus	Warm	Bunch	20	0.2
Switchgrass	Panicum virgatum	Warm	Sod/Bunch	20	3.2
Sideoats grama	Bouteloua curtipendula	Warm	Sod	20	6.3
Western wheatgrass	Pascopyrum smithii	Cool	Sod	15	8.2
Green needlegrass	Nasella viridula	Cool	Bunch	10	3.3
<b>Herbaceous/Wildflowers</b>					
Smooth aster	Aster laevis			1	0.1
Louisiana sage	Artemisia ludoviciana			1	0.1
Showy goldeneye	Heliomeris multiflora (aka Viguiera)			1	0.1
Blanket flower	Gaillardia aristata			1	0.5
Prairie coneflower	Ratibida columnifera			1	0.1
TOTAL PLS POUNDS/ACRE				100	19.3

<sup>1</sup>PLS=PURE LIVE SEED - IF BROADCAST SEEDING, DOUBLE THE RATE

**WETLAND NATIVE SEED MIX**

Common Name	Scientific Name	Growth Season	Growth Form	% Mix	Wetland Indicator*	Lb/Ac (PLS <sup>1</sup> )
<b>Grasses</b>						
American Sloughgrass	Beckmannia syzigachne	Cool	Sod	15	OBL	0.8
Prairie cordgrass	Spartina pectinata	Warm	Sod	15	FACW	4.6
Switchgrass	Panicum virgatum	Warm	Sod/Bunch	15	FAC	2.3
Western wheatgrass	Pascopyrum smithii	Cool	Sod	10	FACU	5.5
Fowl mannagrass	Glyceria striata	Cool	Sod	10	OBL	3.3
Hardstem bulrush	Scirpus acutus			10	OBL	1.6
Baltic rush	Juncus balticus			10	OBL	0.1
Creeping spikerush	Eleocharis palustris			10	OBL	1.0
<b>Wildflowers</b>						
Blue vervain	Vferbena hastata			2.5	FACW	0.1
Nuttall's sunflower	Helianthus nuttallii			2.5	FAC	0.5
TOTAL PLS POUNDS/ACRE				100		19.8

<sup>1</sup>PLS=PURE LIVE SEED - IF BROADCAST SEEDING, DOUBLE THE RATE

HR GREEN Xref: xgl-nd01; FINAL EROSION CONTROL KEY: 01-XC-FINAL-EC-01\_XC\_RIPRAP-01-XC-PR\_100YR\_FP\_DELINEATION; 4-dgn; 01-XC-channel; xv-row662; xv-dgn; 662

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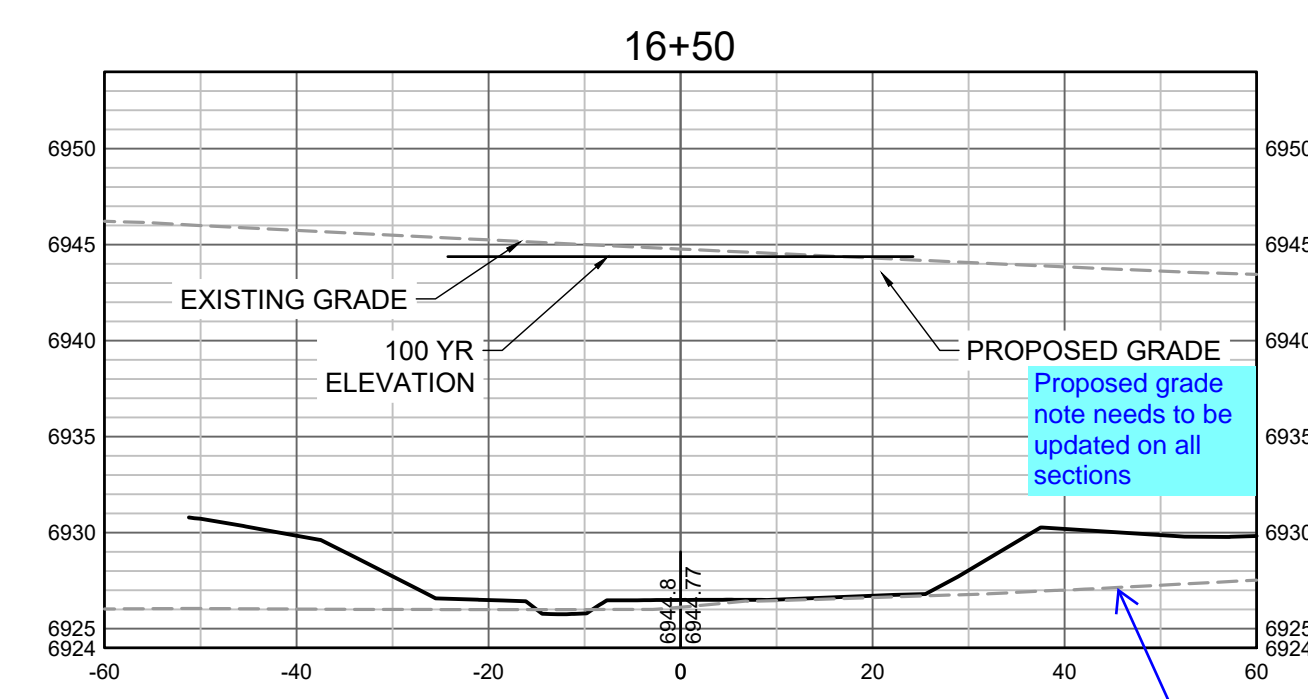
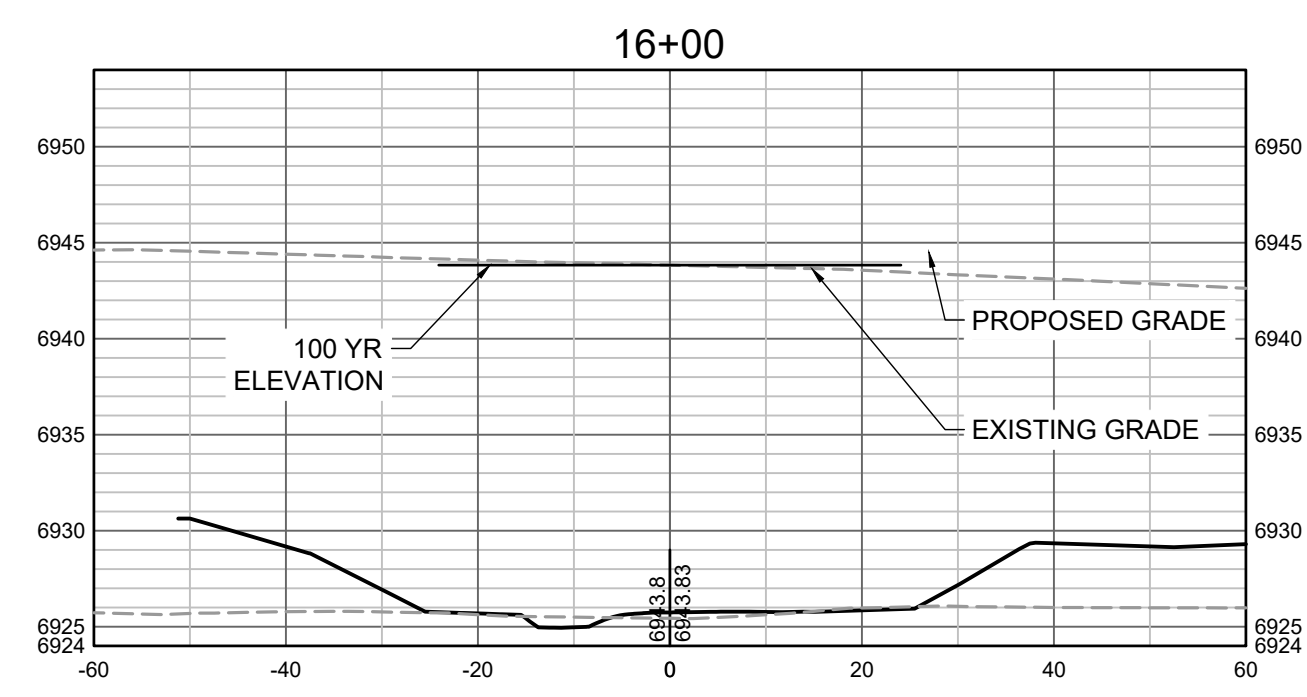
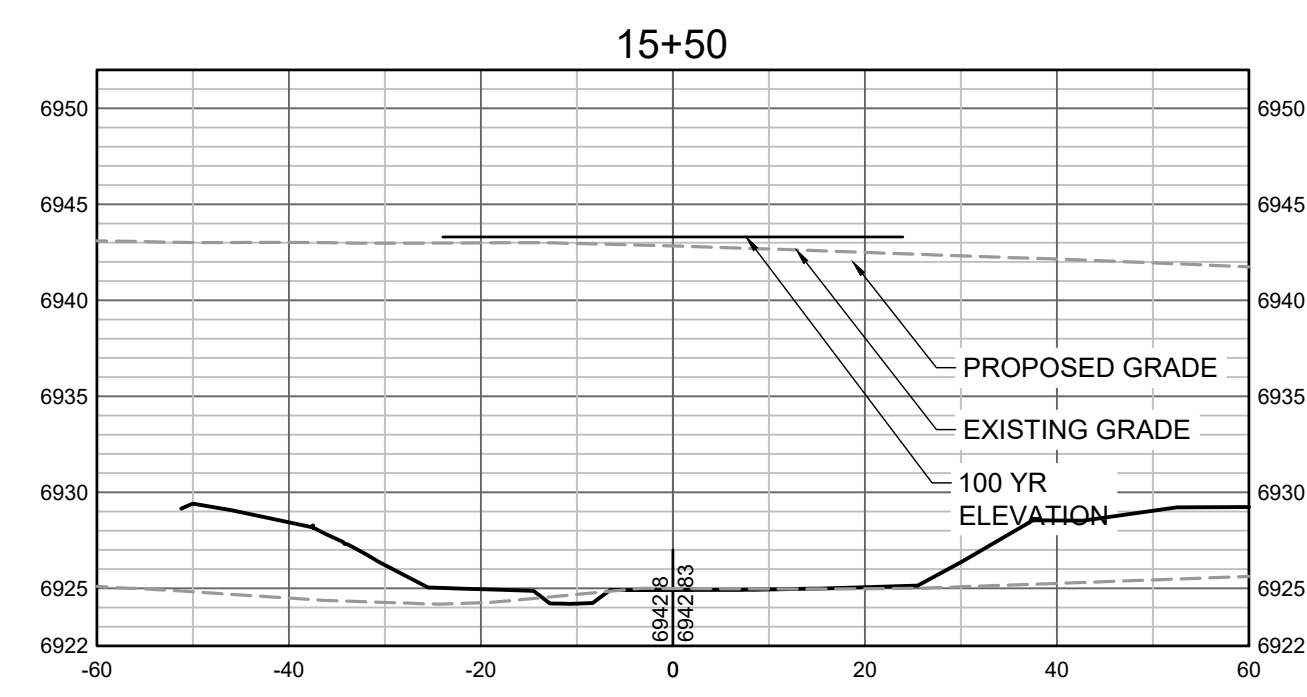
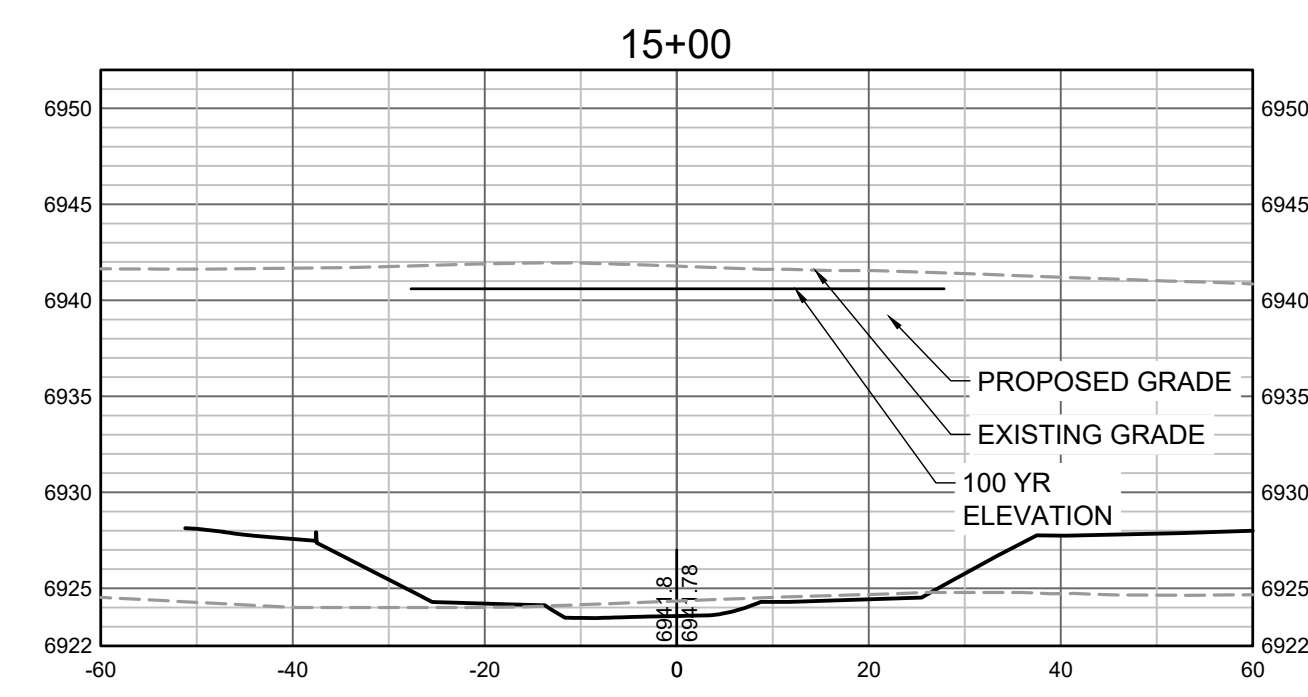
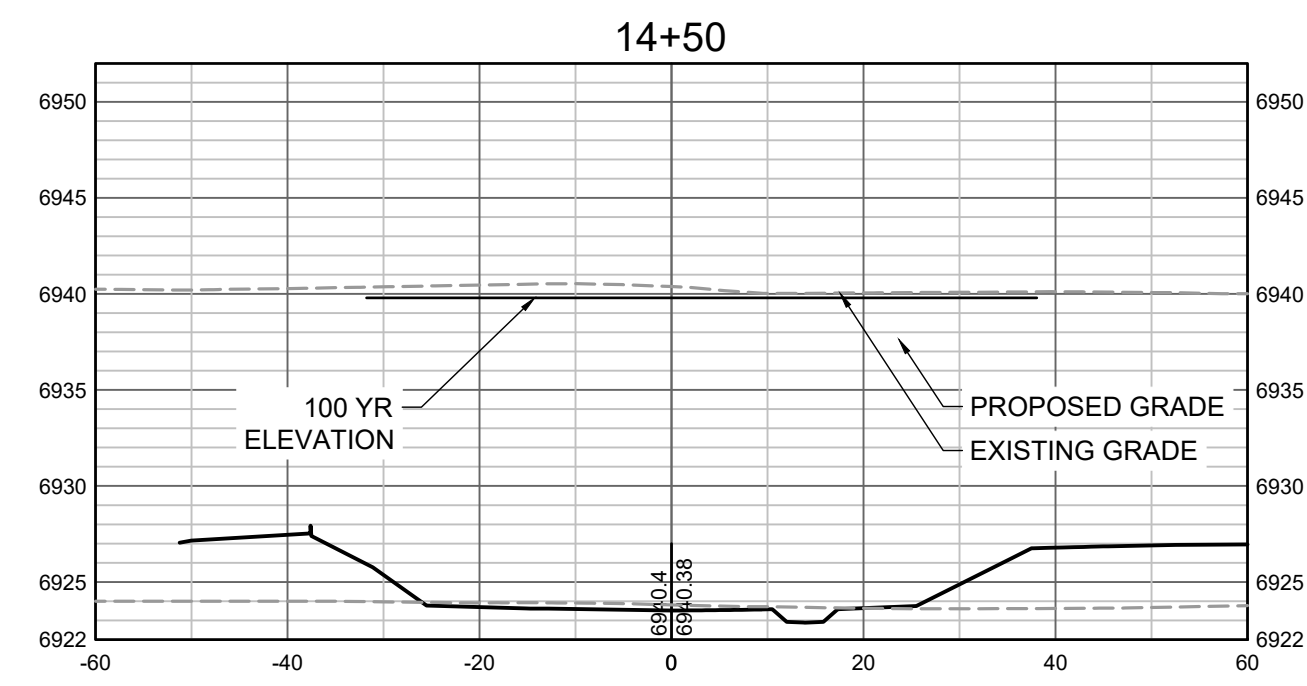
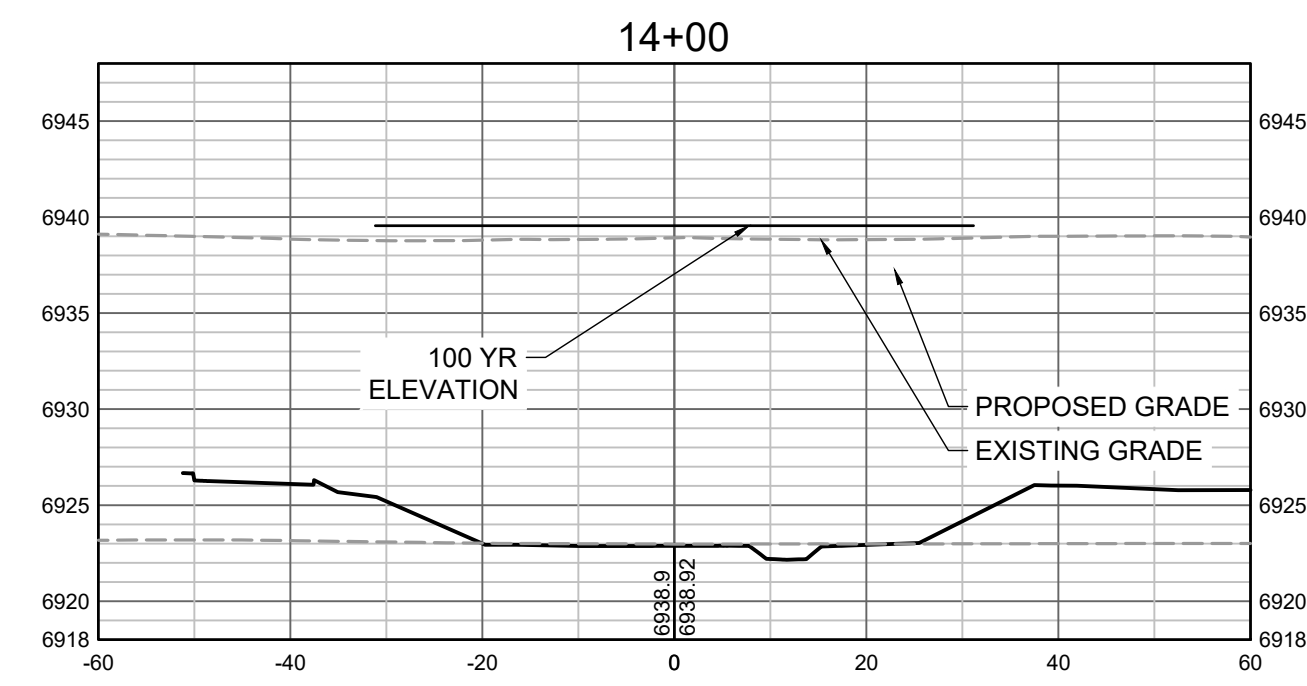
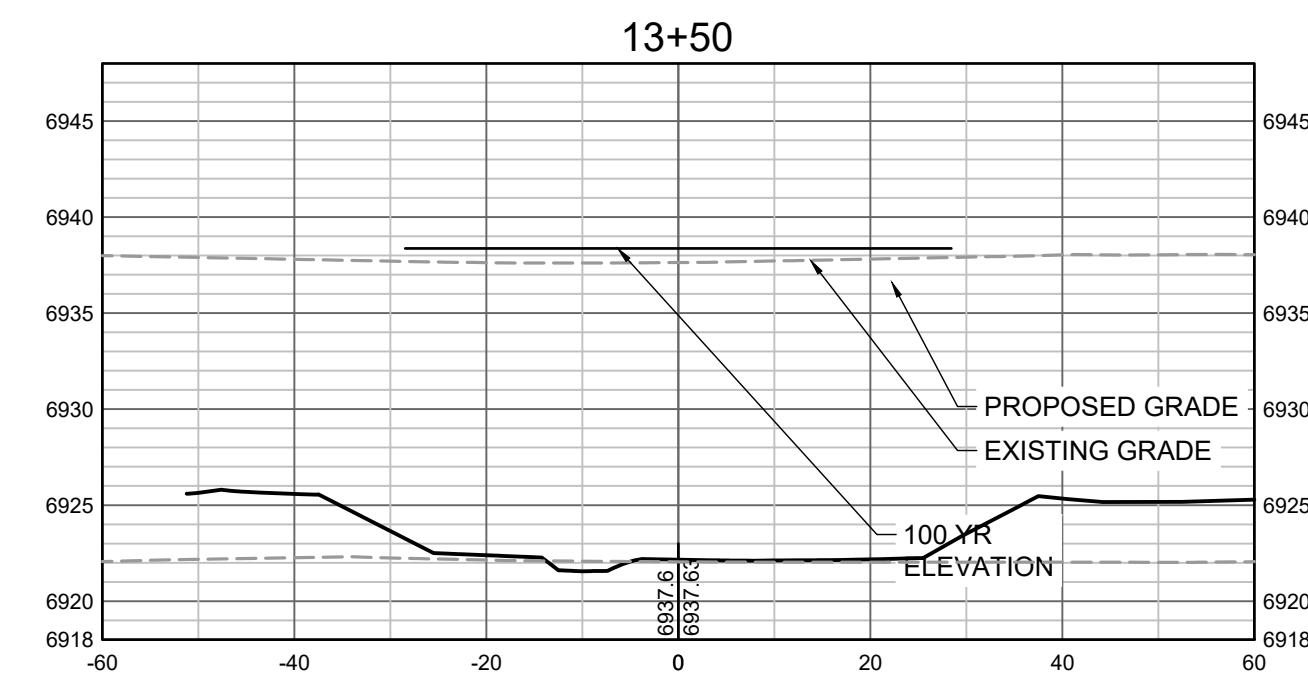
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CONSTRUCTION DOCUMENTS  
 SEEDING NOTES

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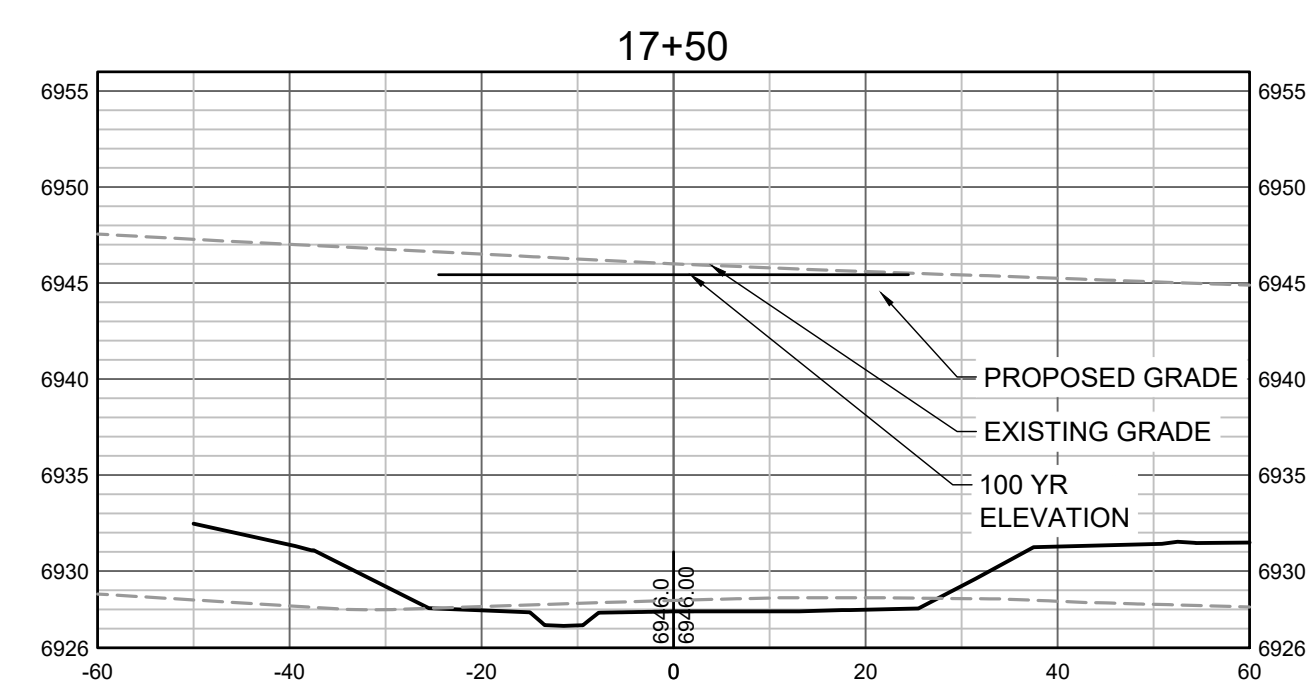
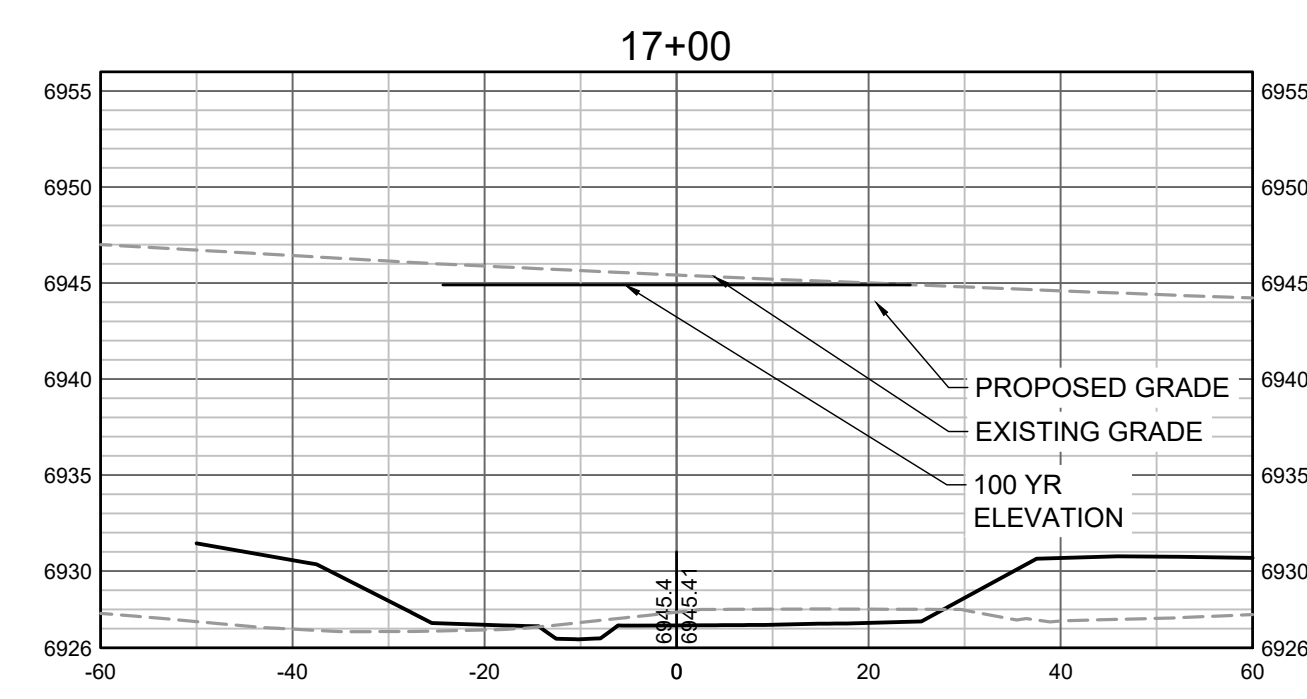
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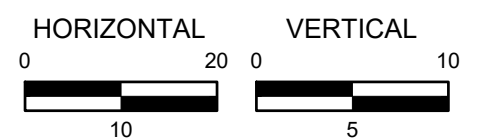


Proposed grade note needs to be updated on all sections

What is this line? Label or turn off, all sections



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HR GREEN Xref: xref: 01-XC-PR\_100YR\_FP\_DELIMITATION

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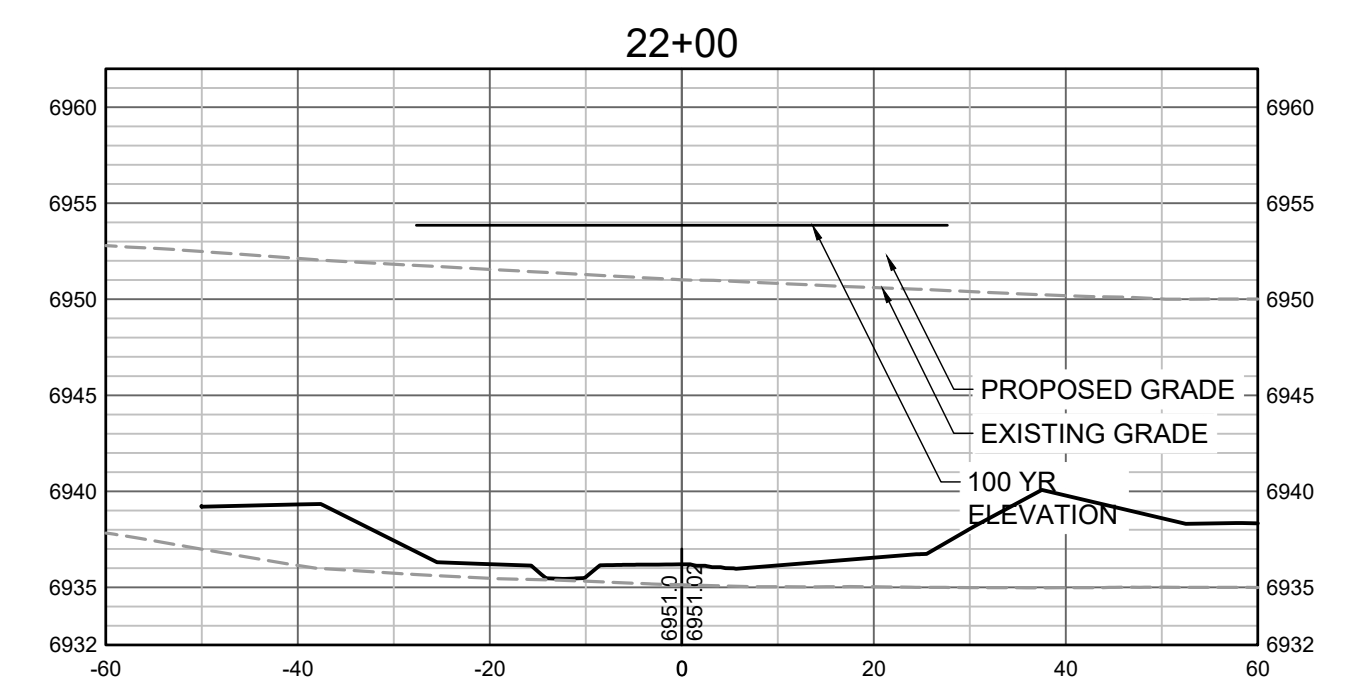
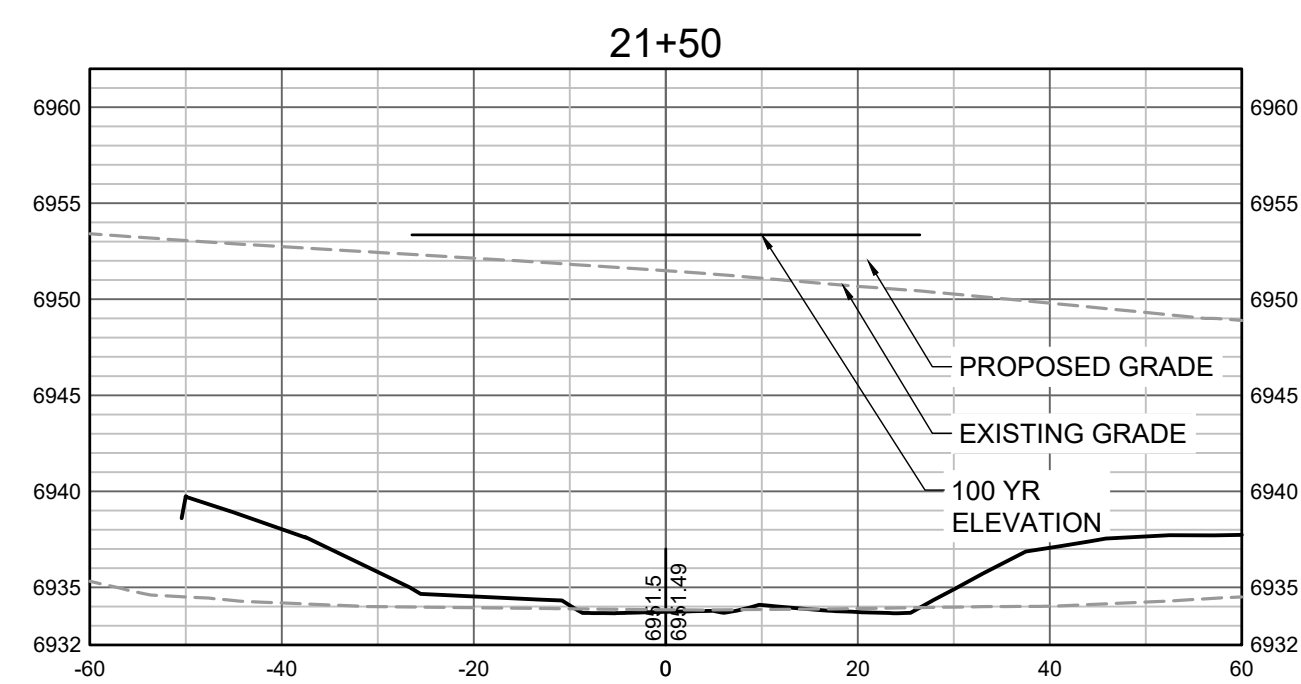
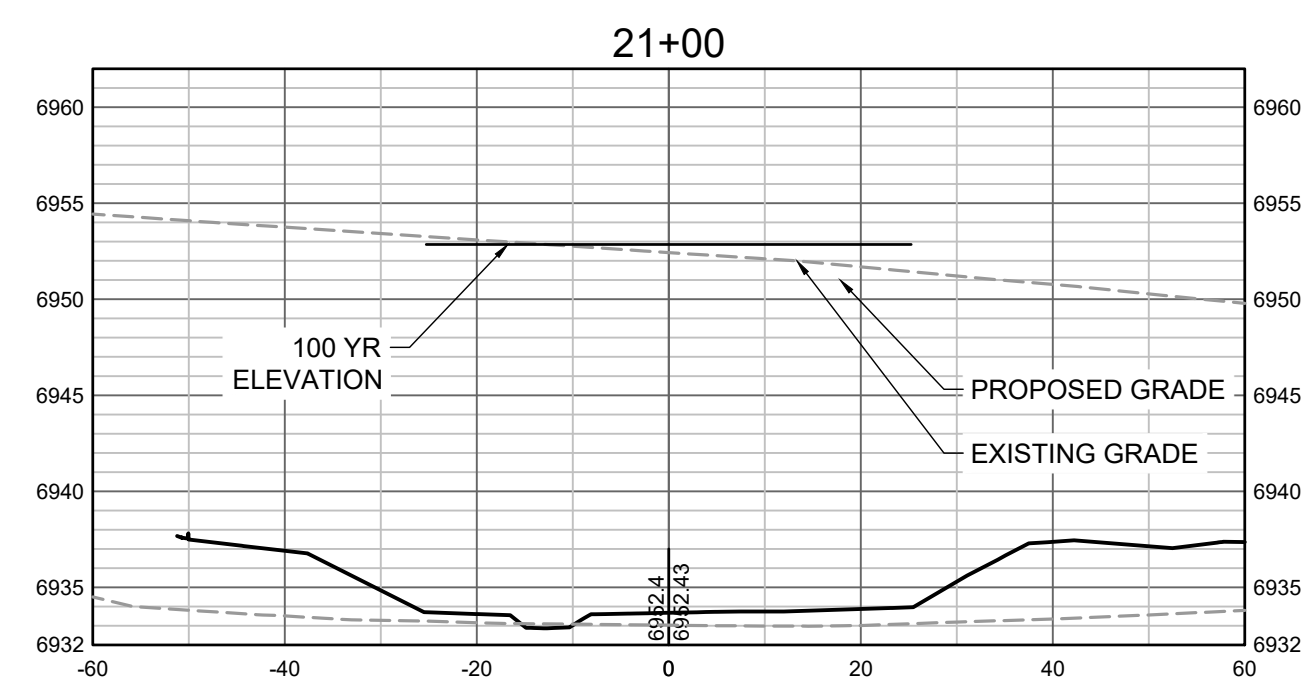
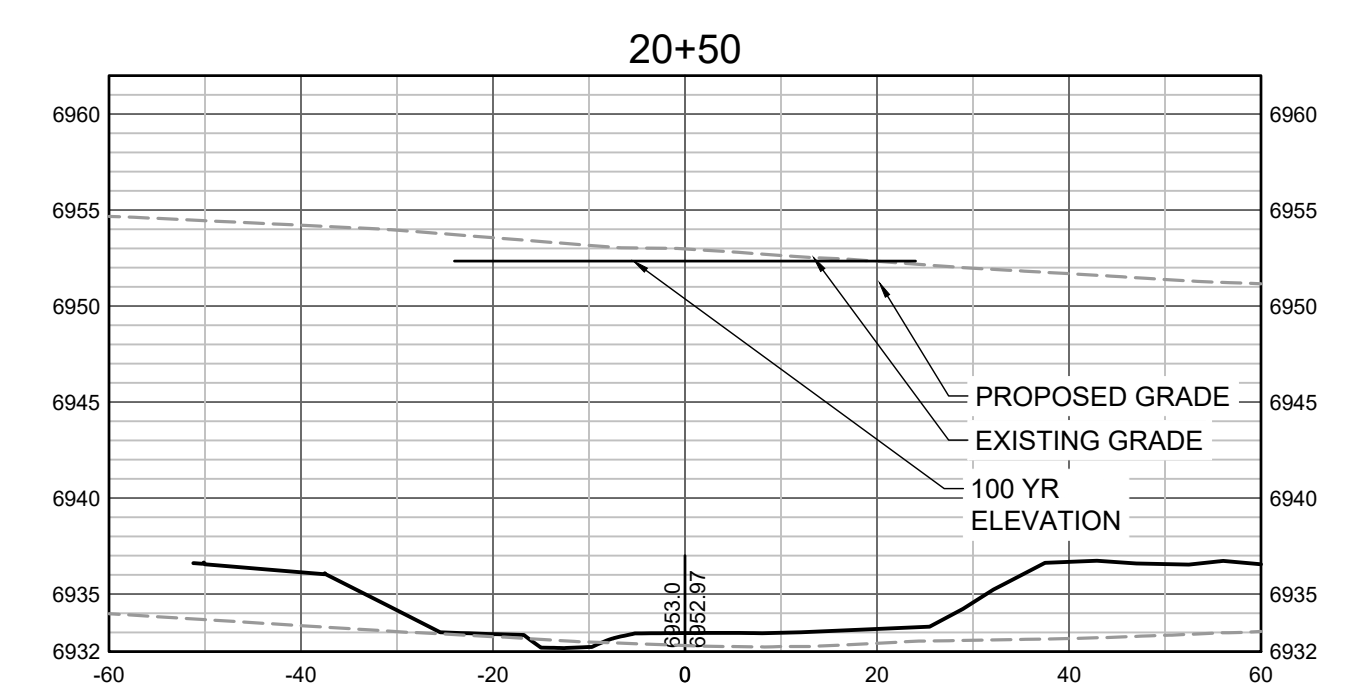
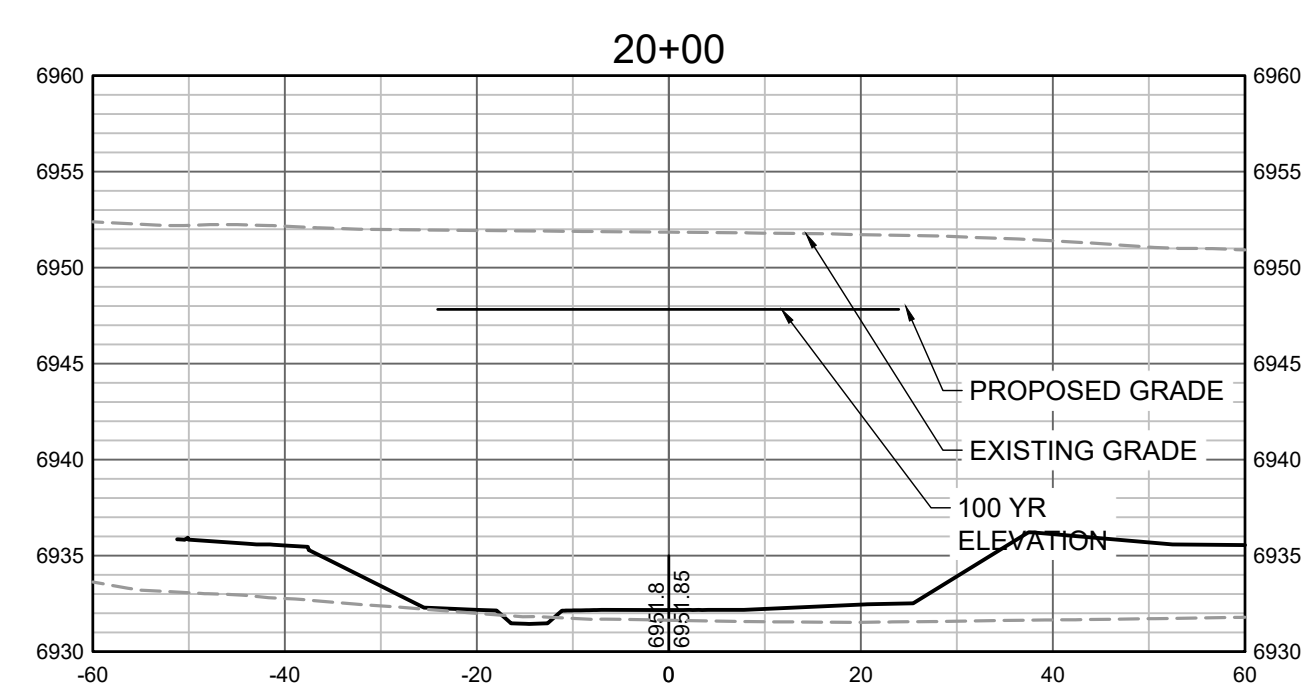
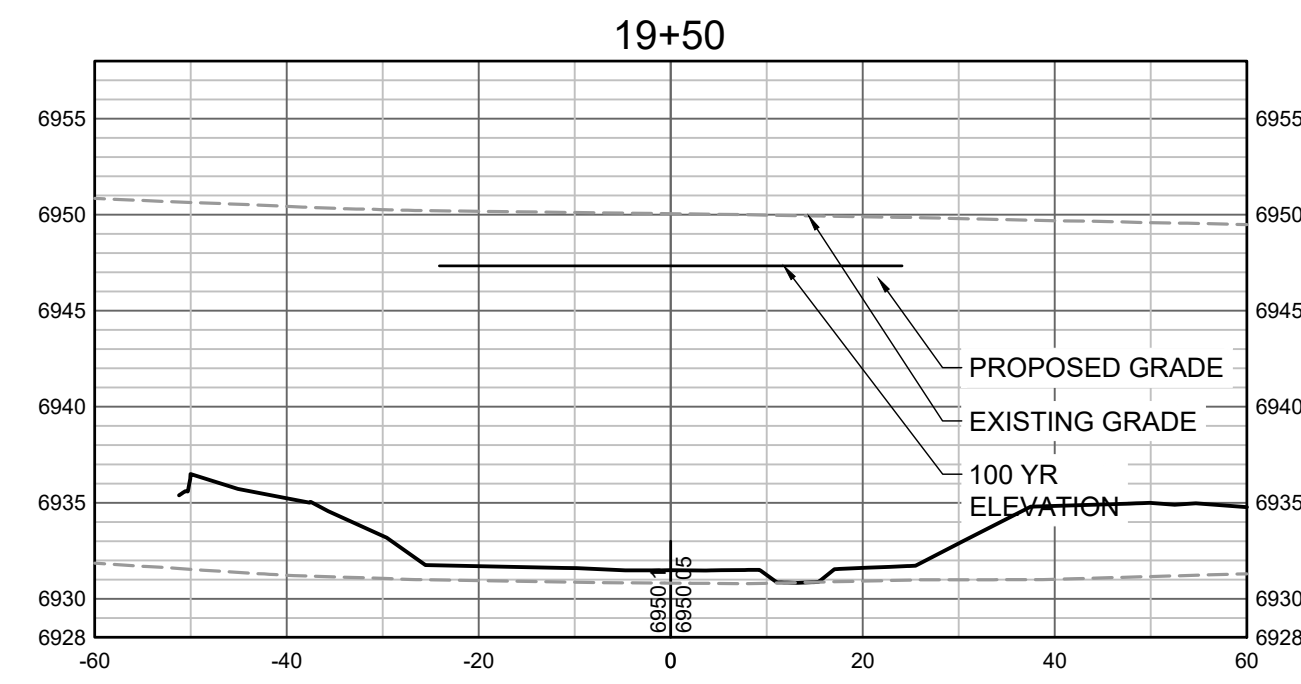
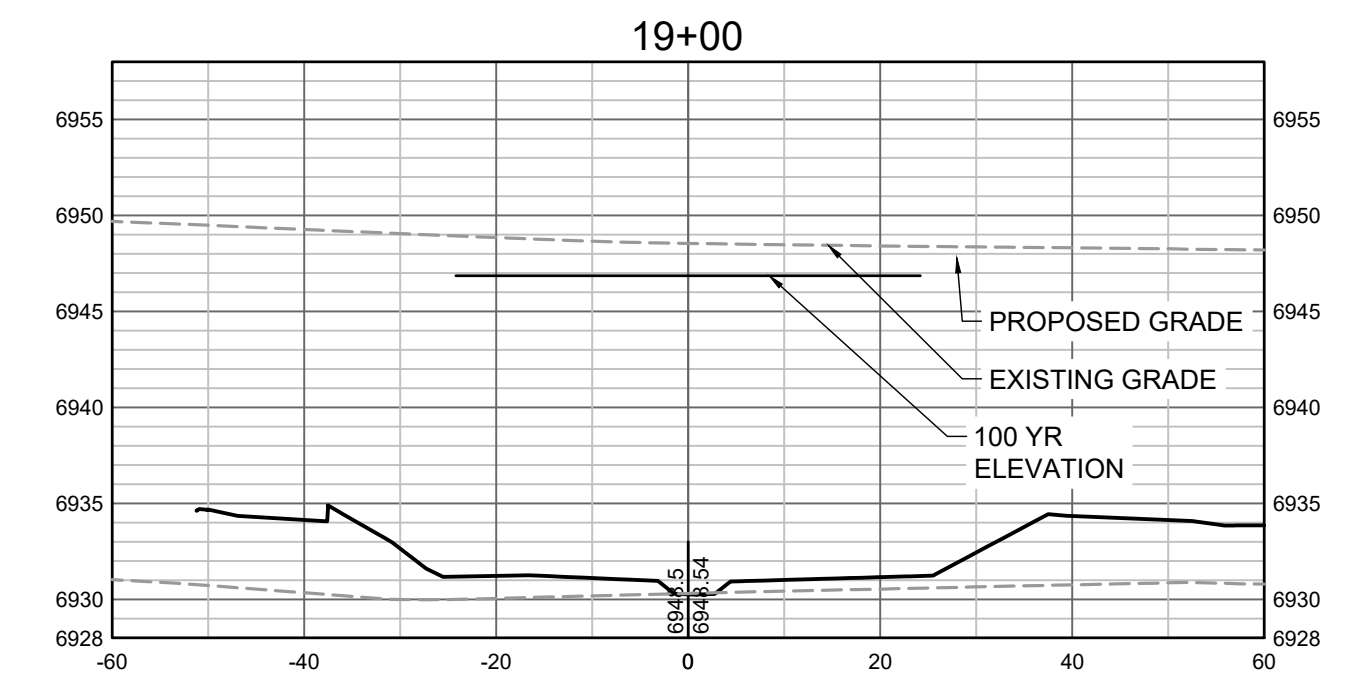
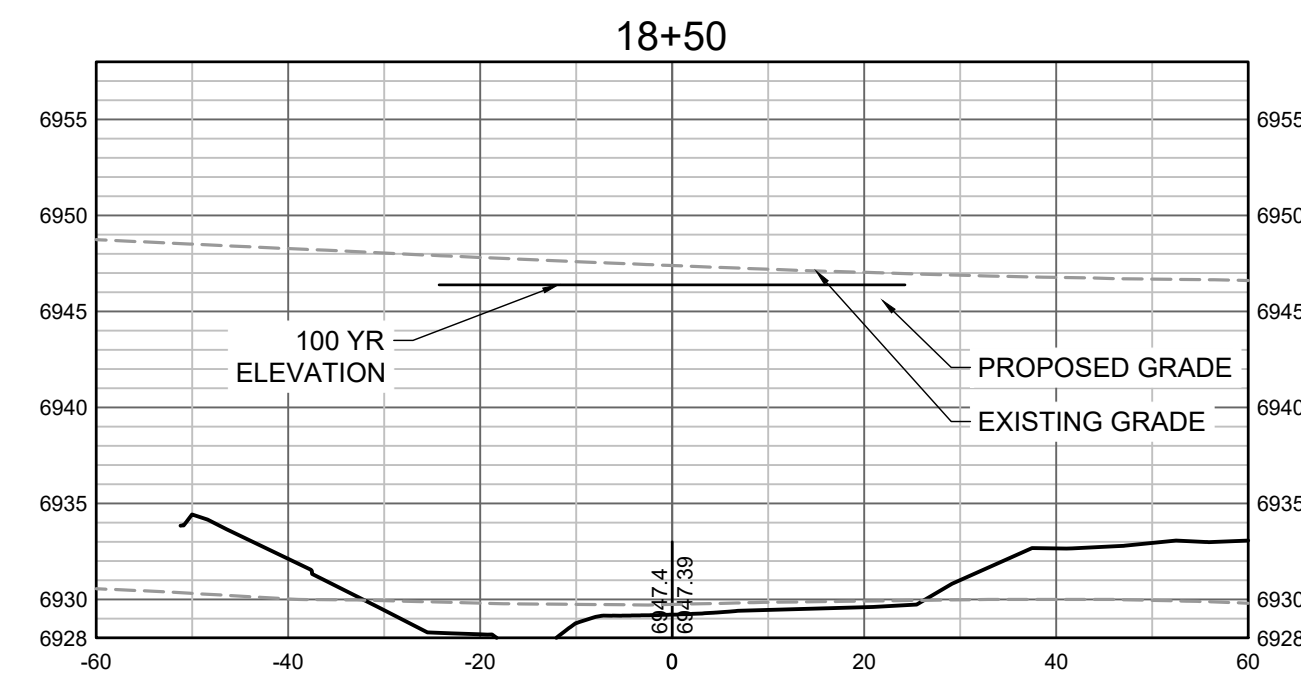
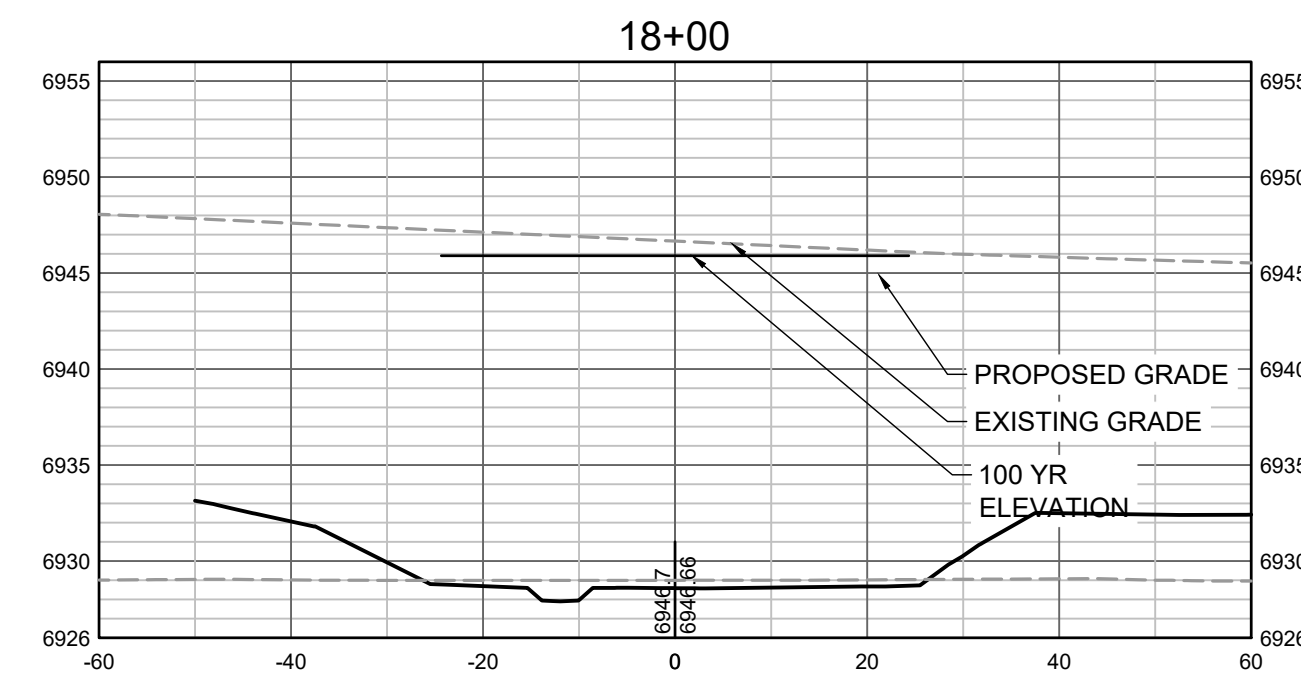
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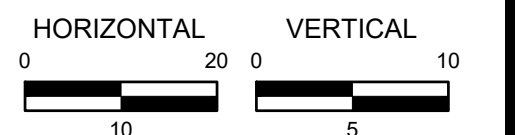
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 TRIBUTARY 2 CROSS SECTIONS

SHEET  
**CS4**  
 40





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HR GREEN Xrefs: xgs-1-dh01; 01-XC-PR-100PR\_FP\_DELIMITATION

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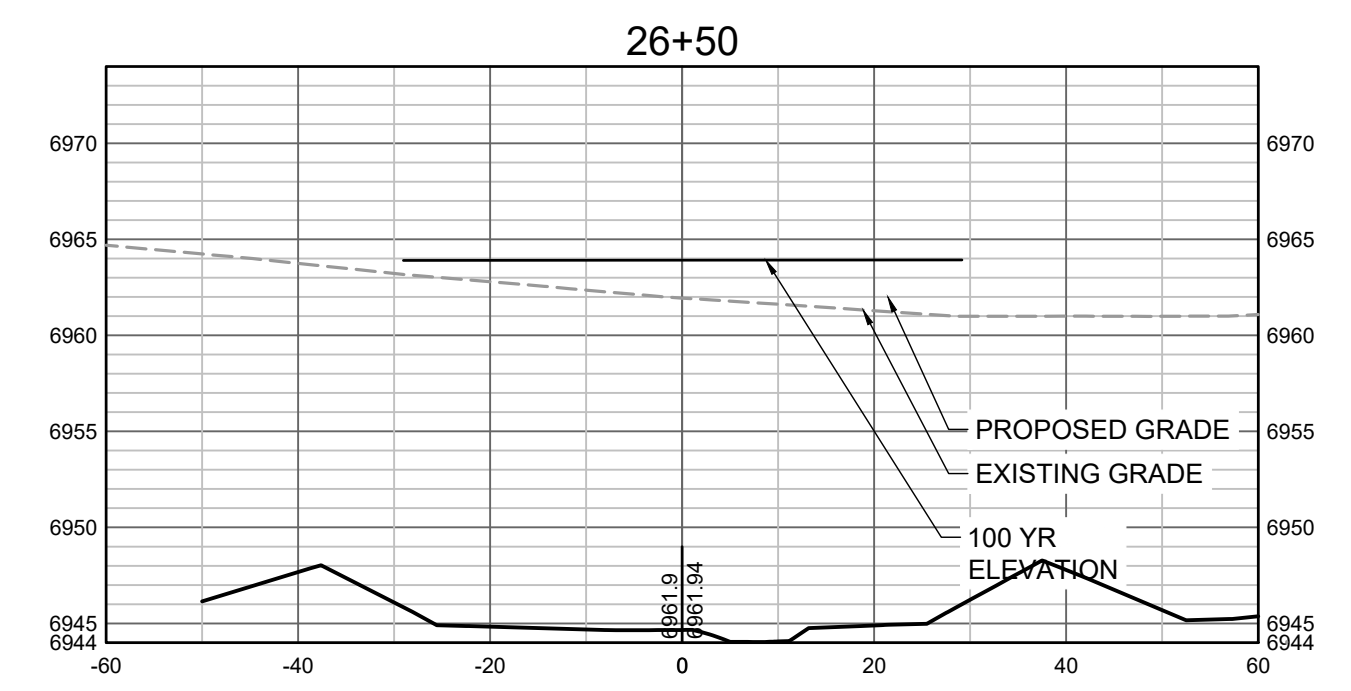
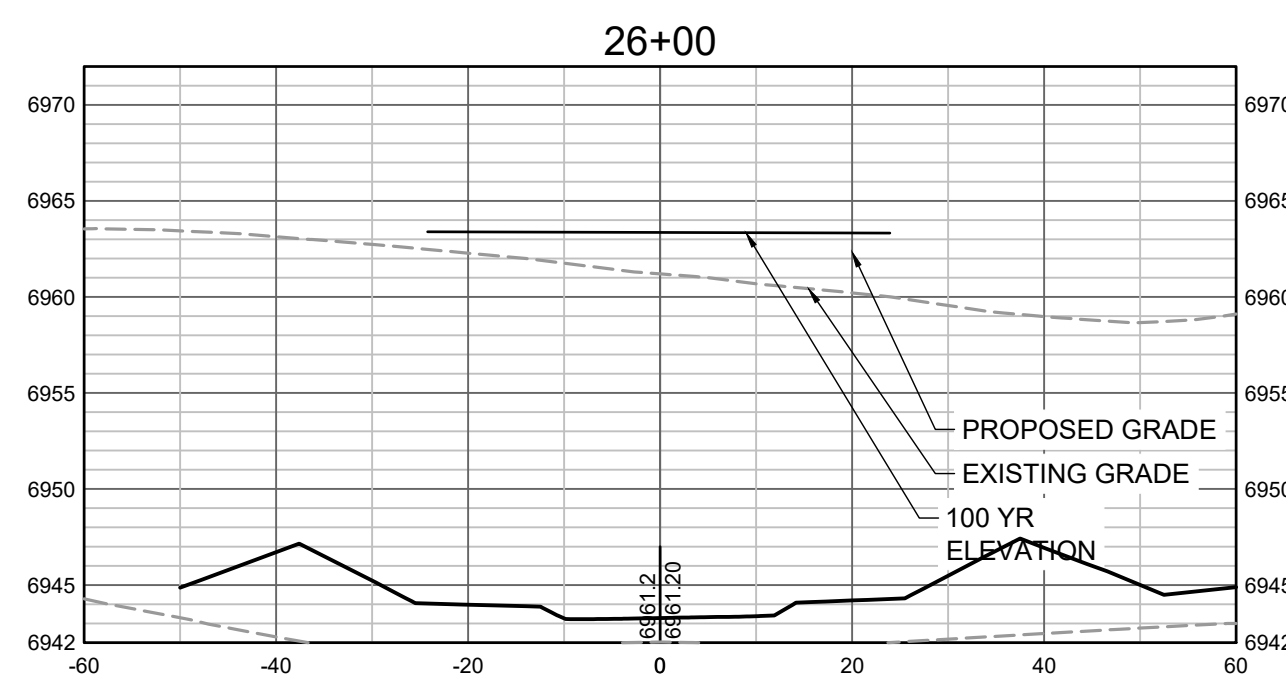
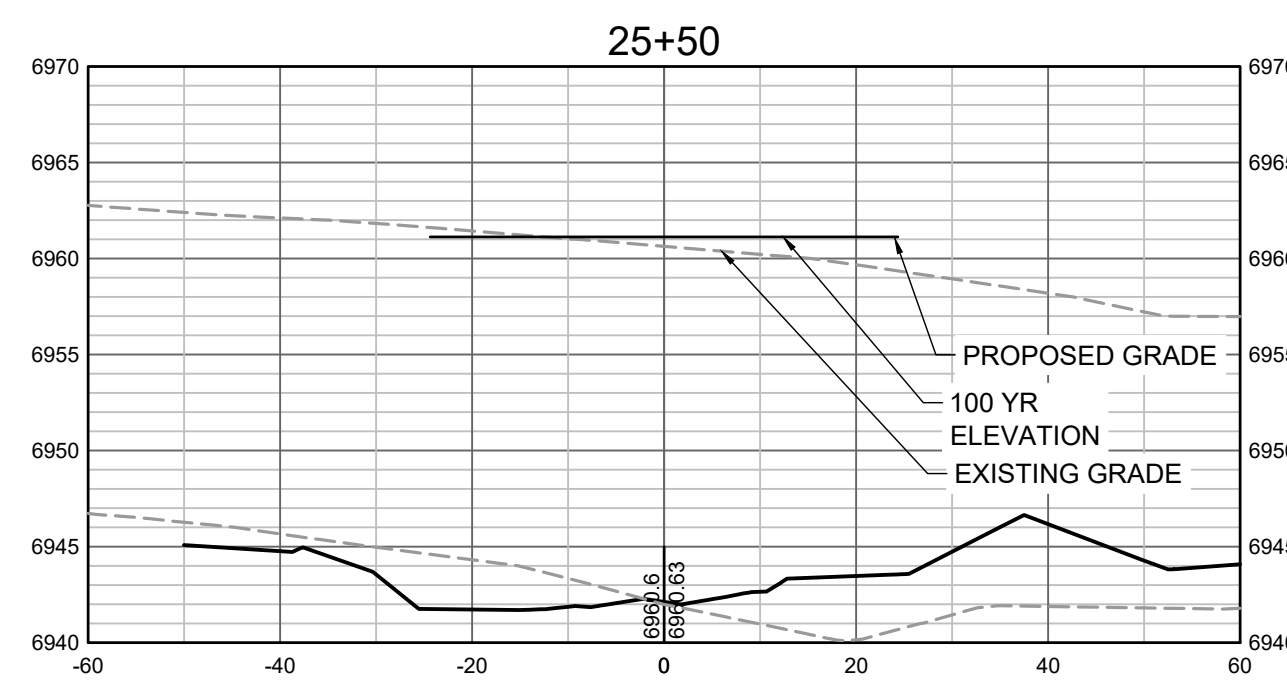
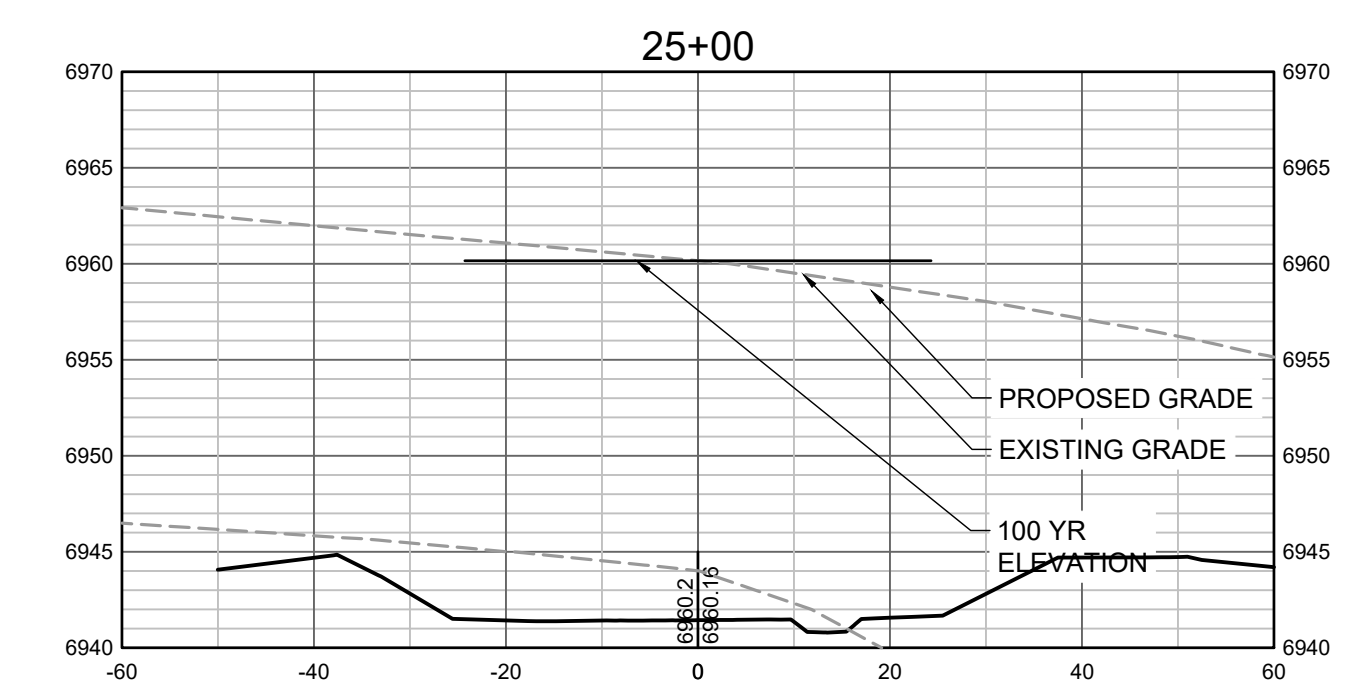
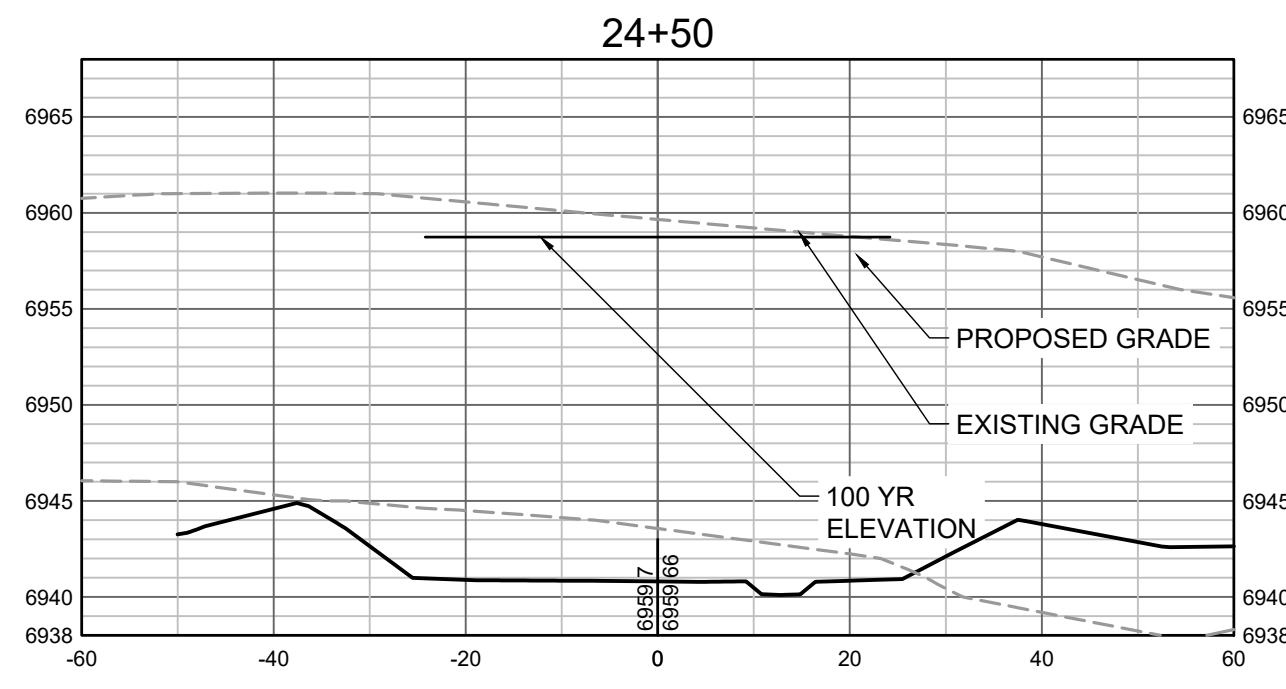
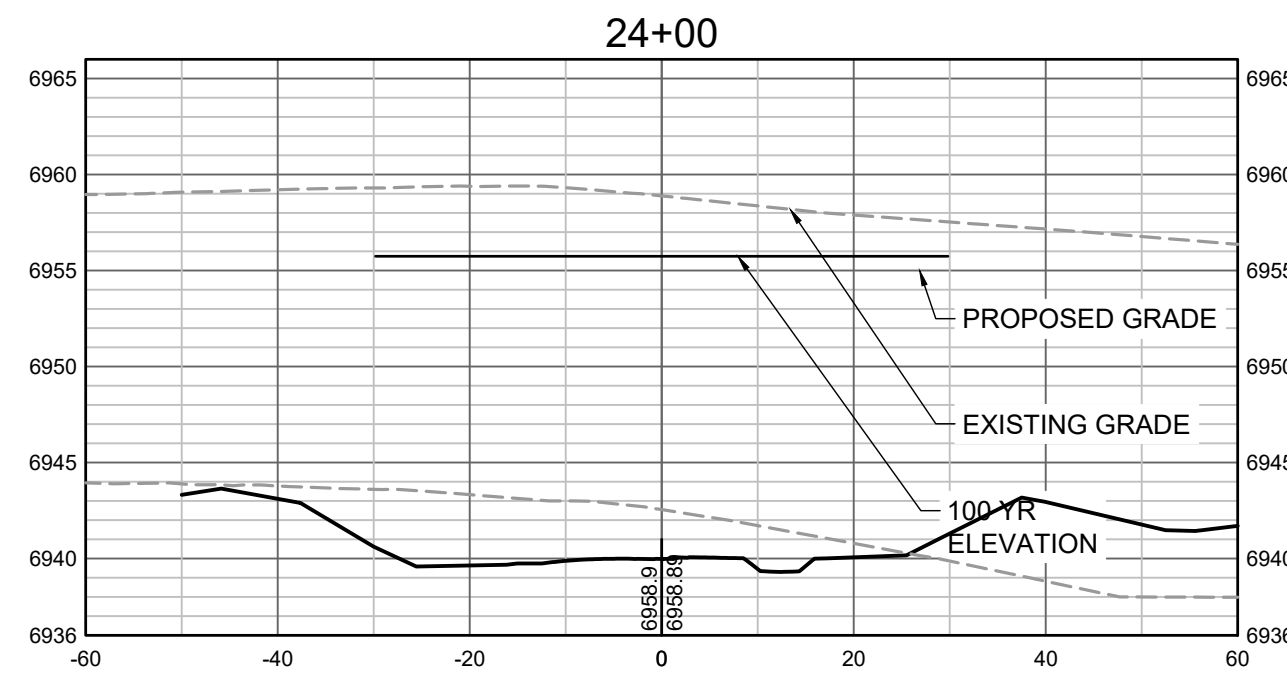
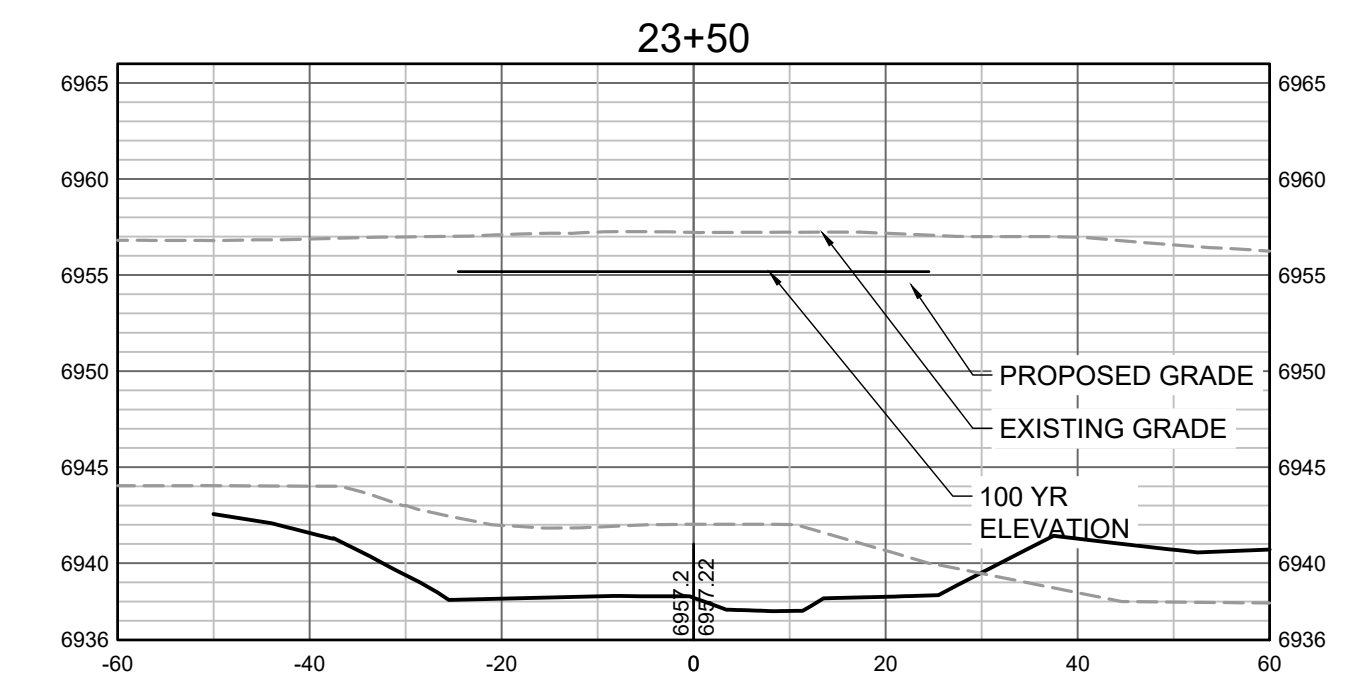
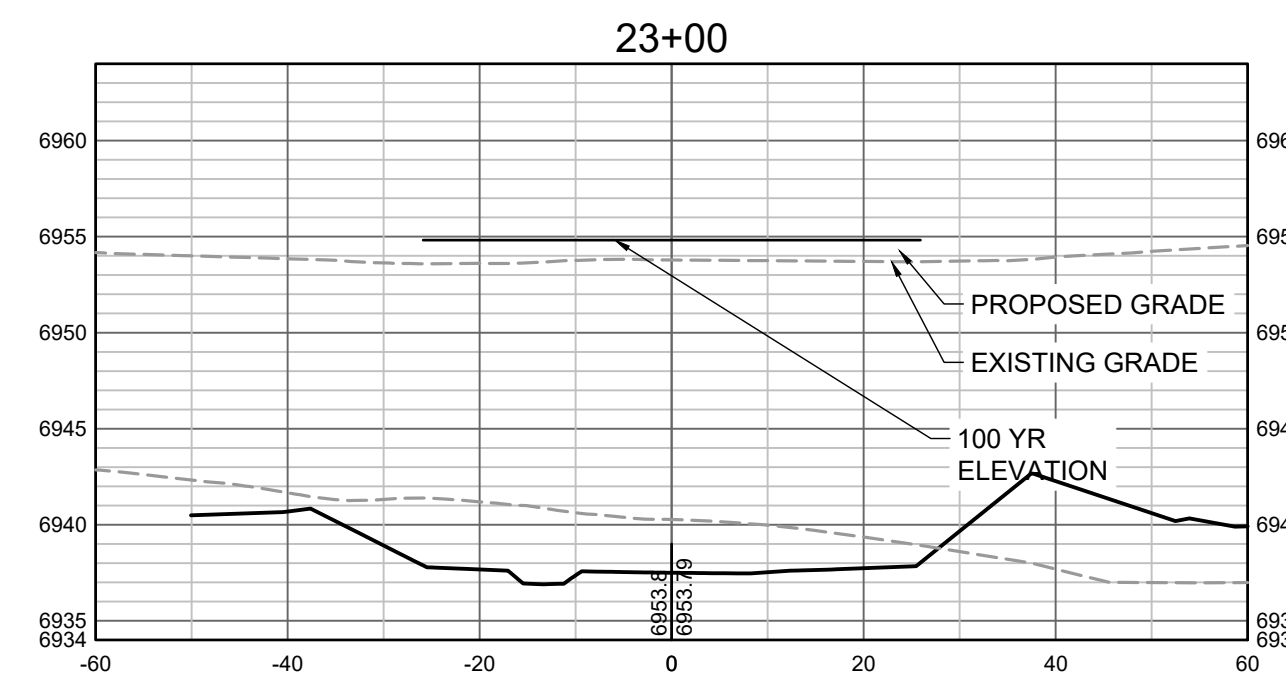
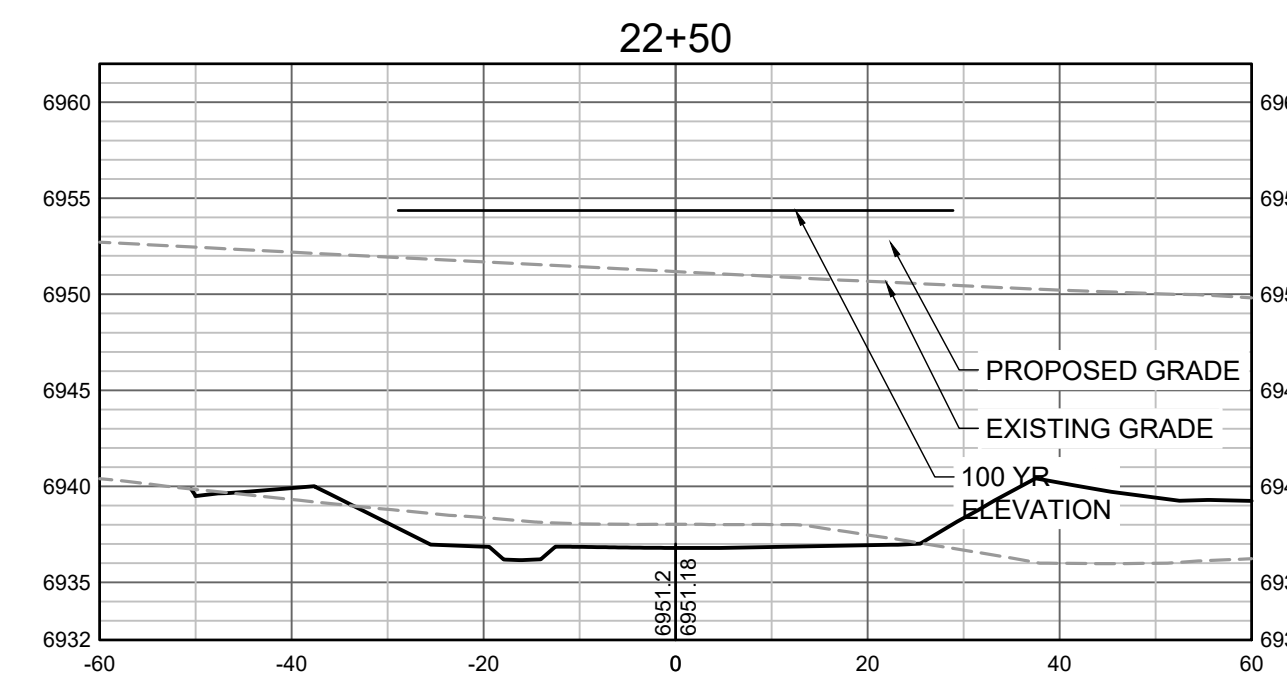
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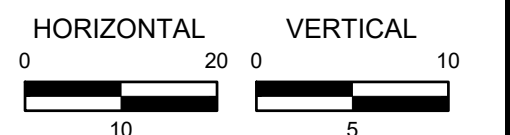
SHEET  
**CS5**

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PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



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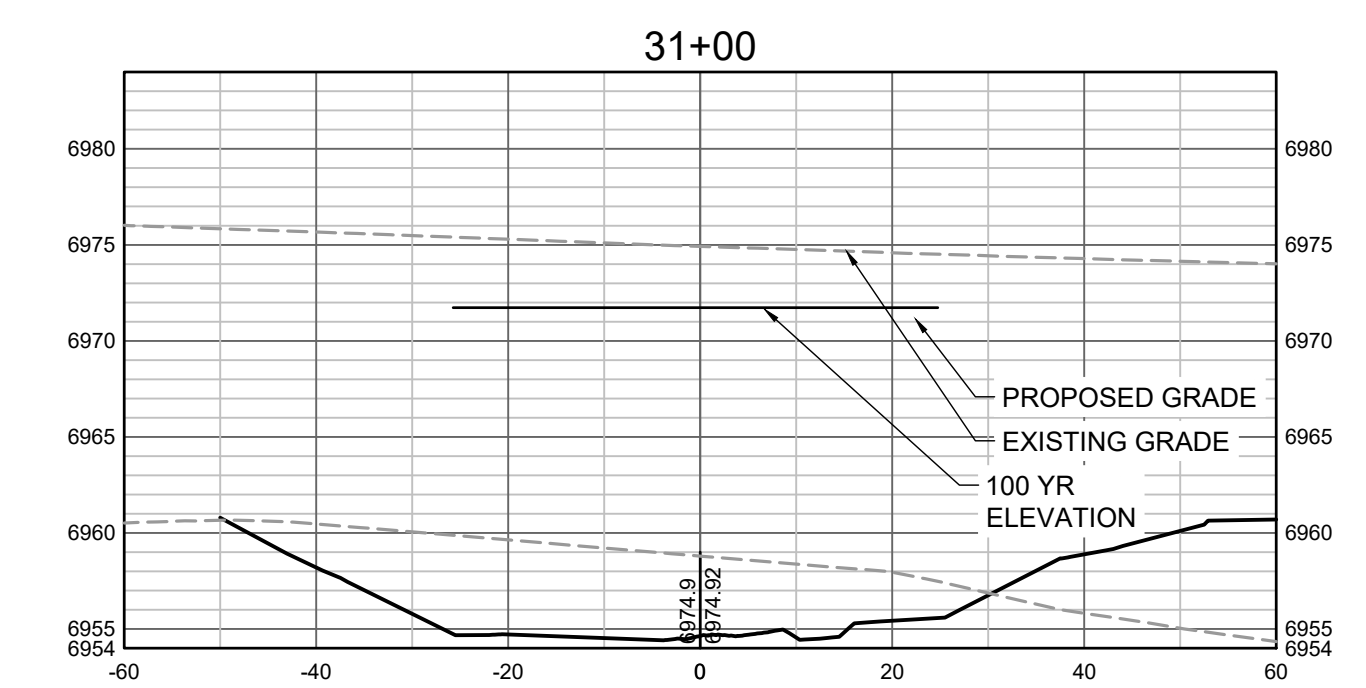
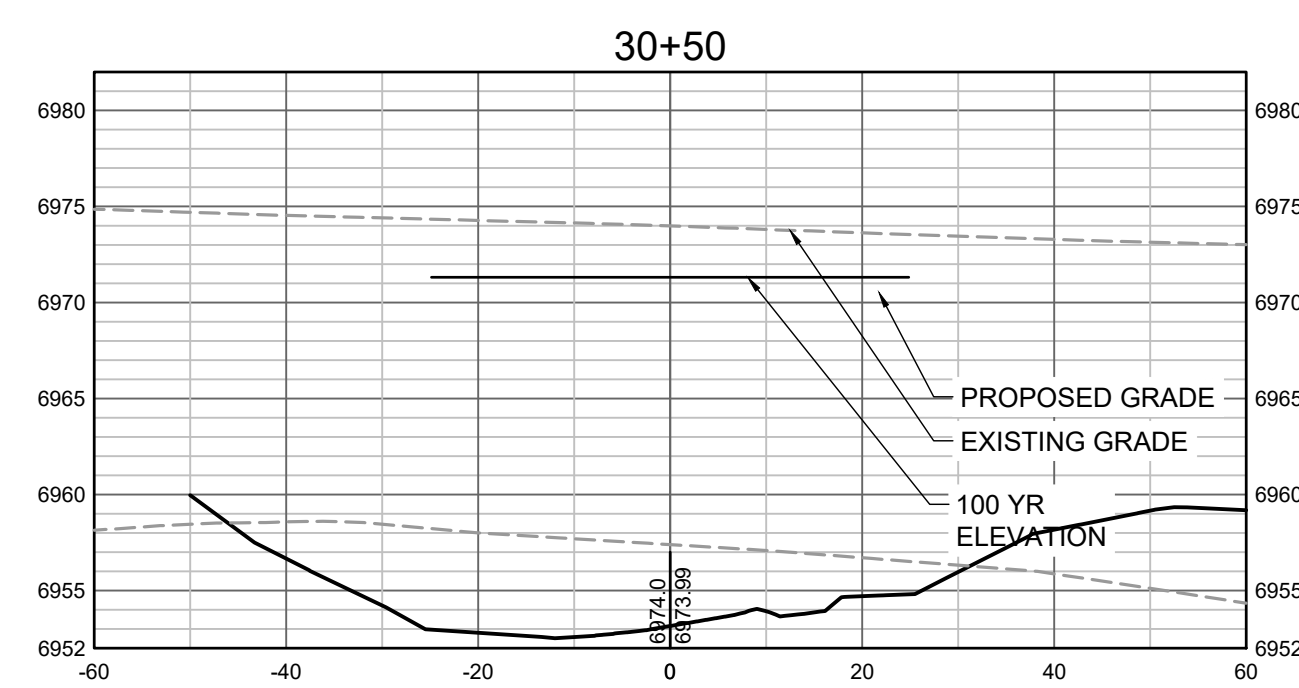
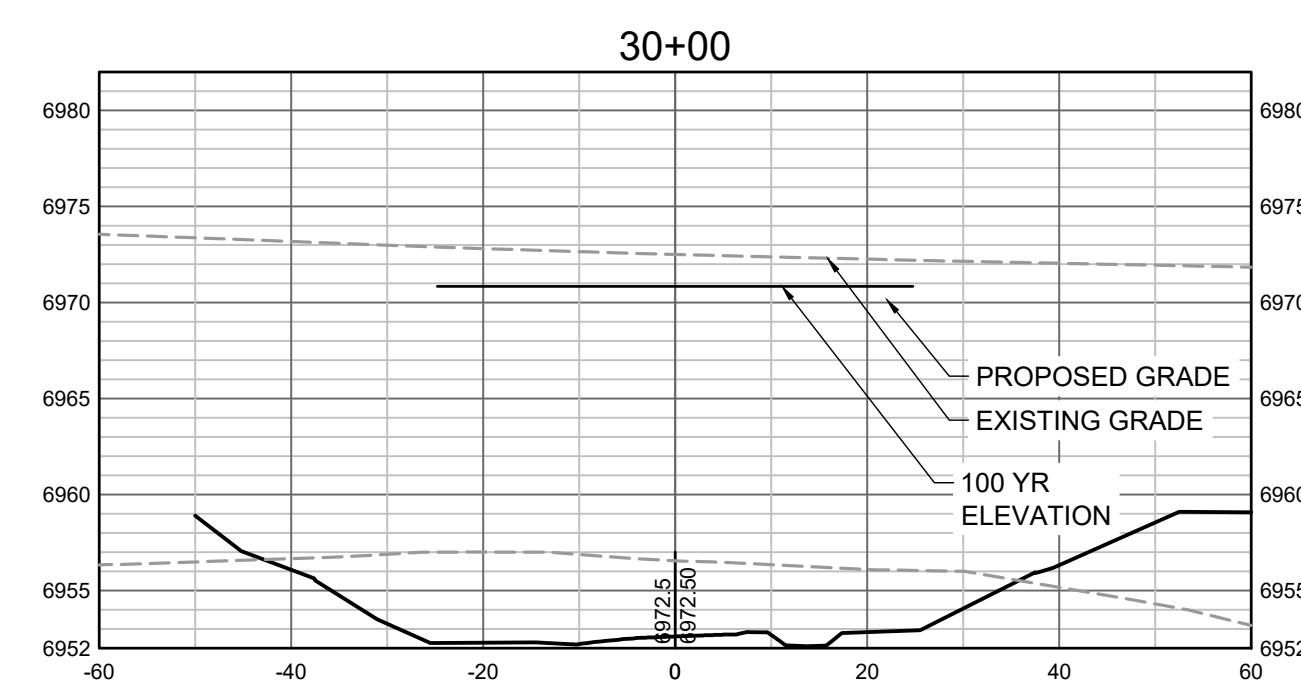
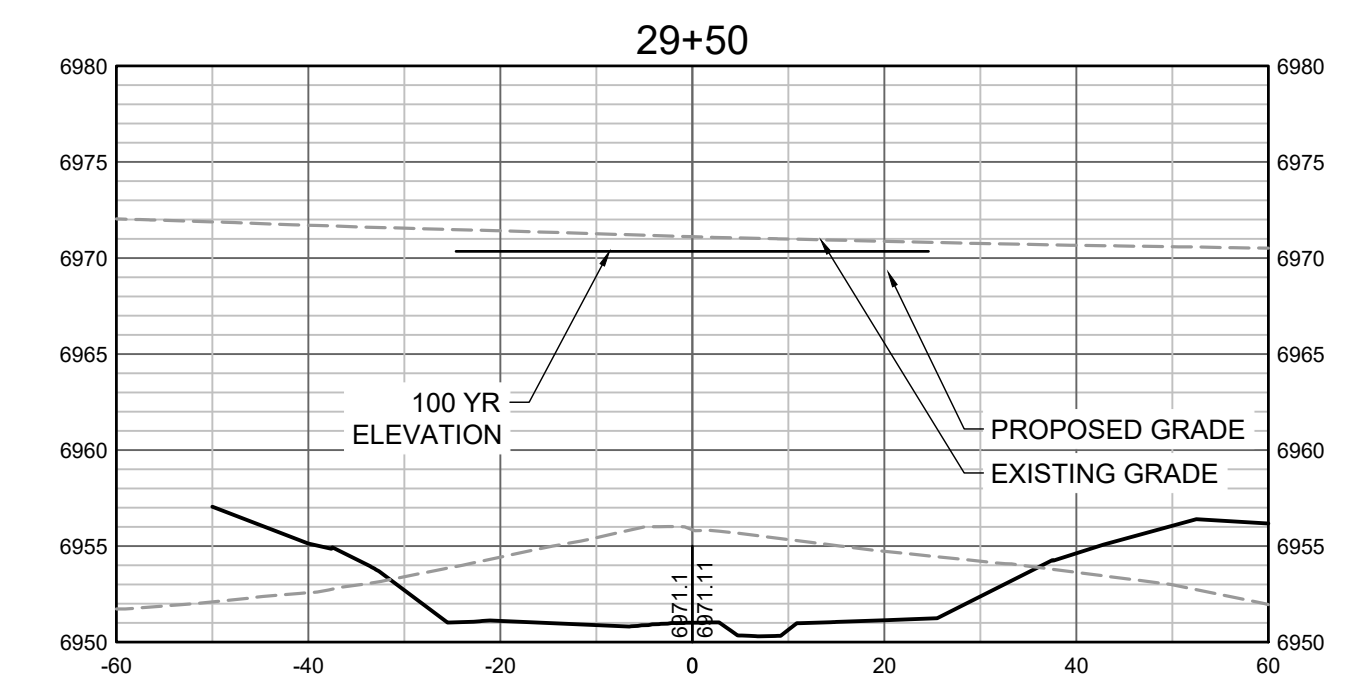
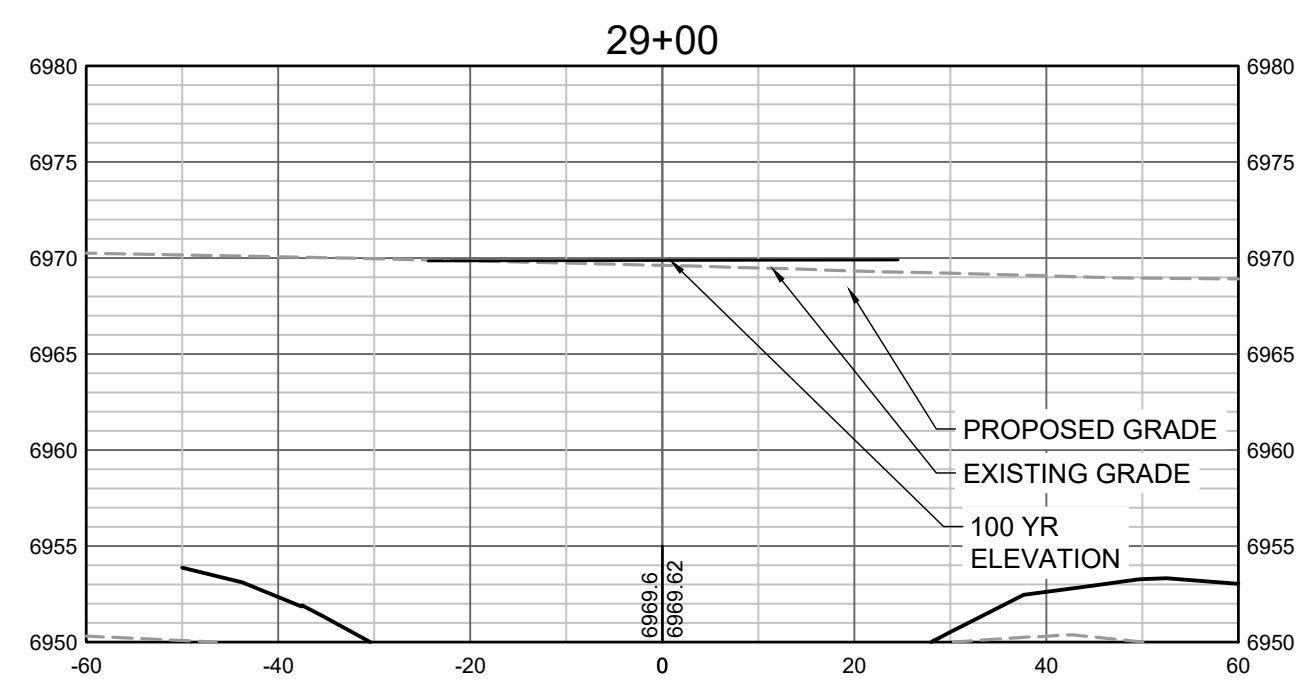
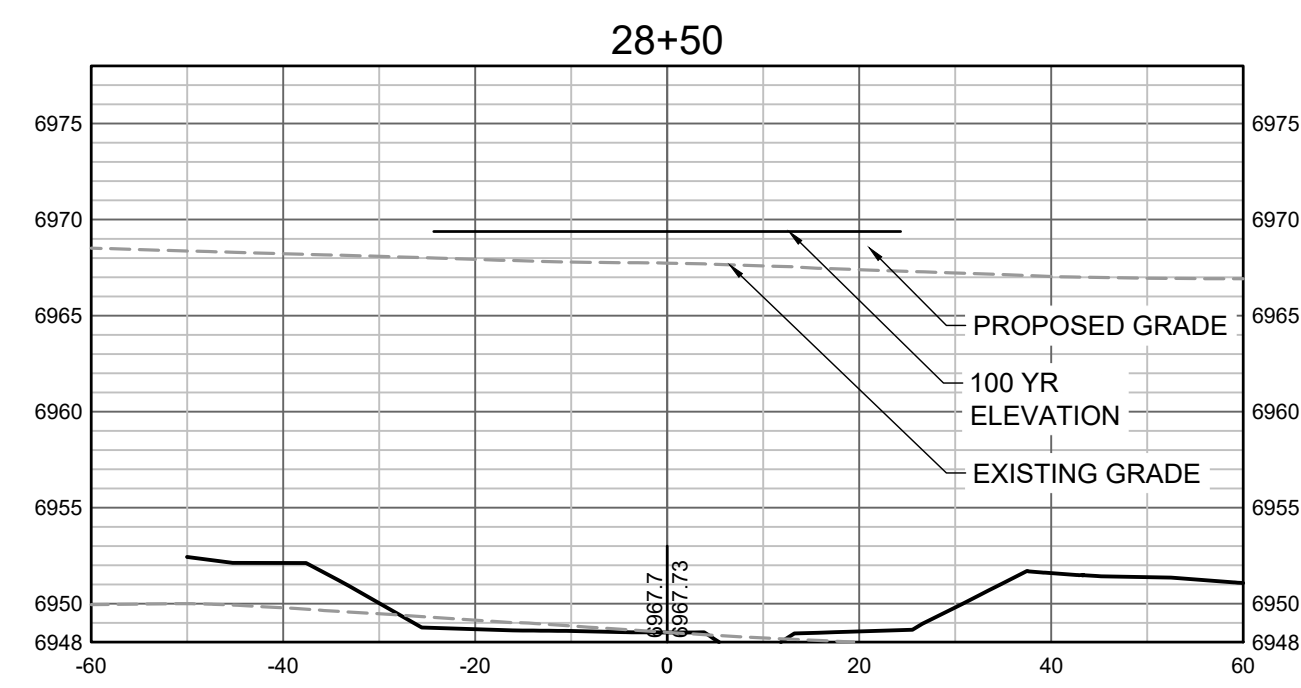
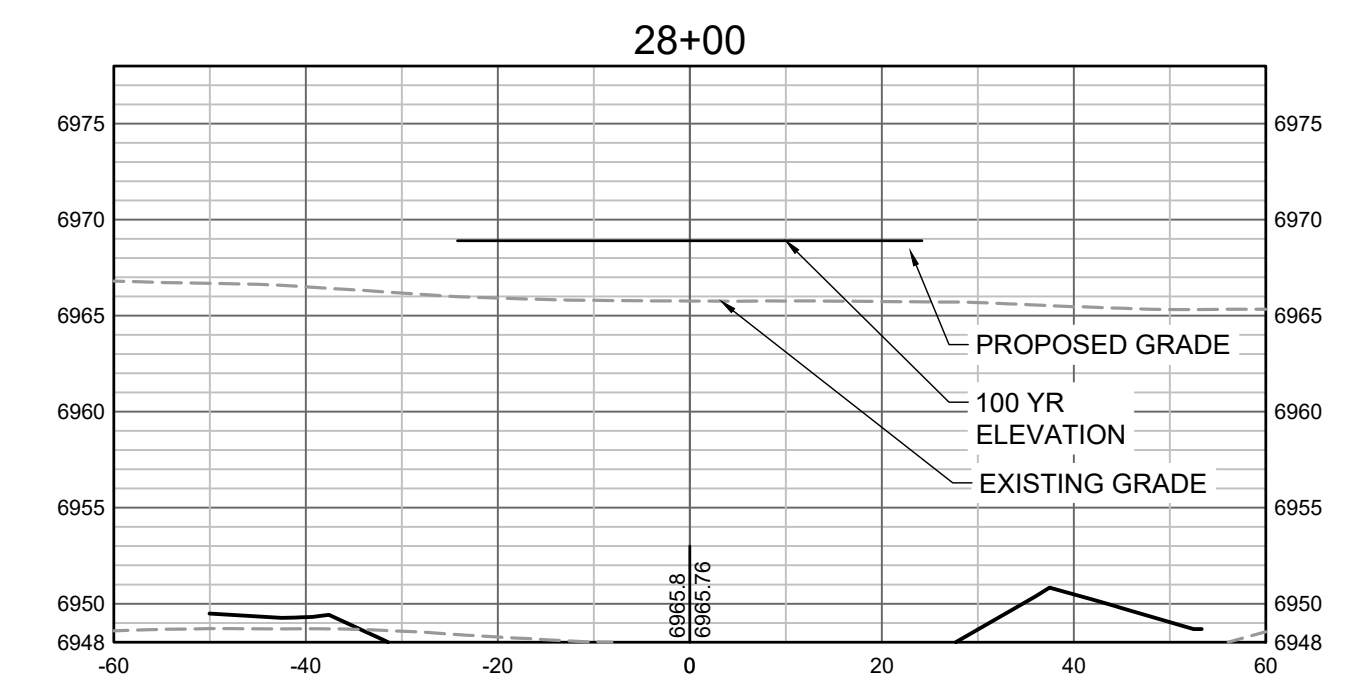
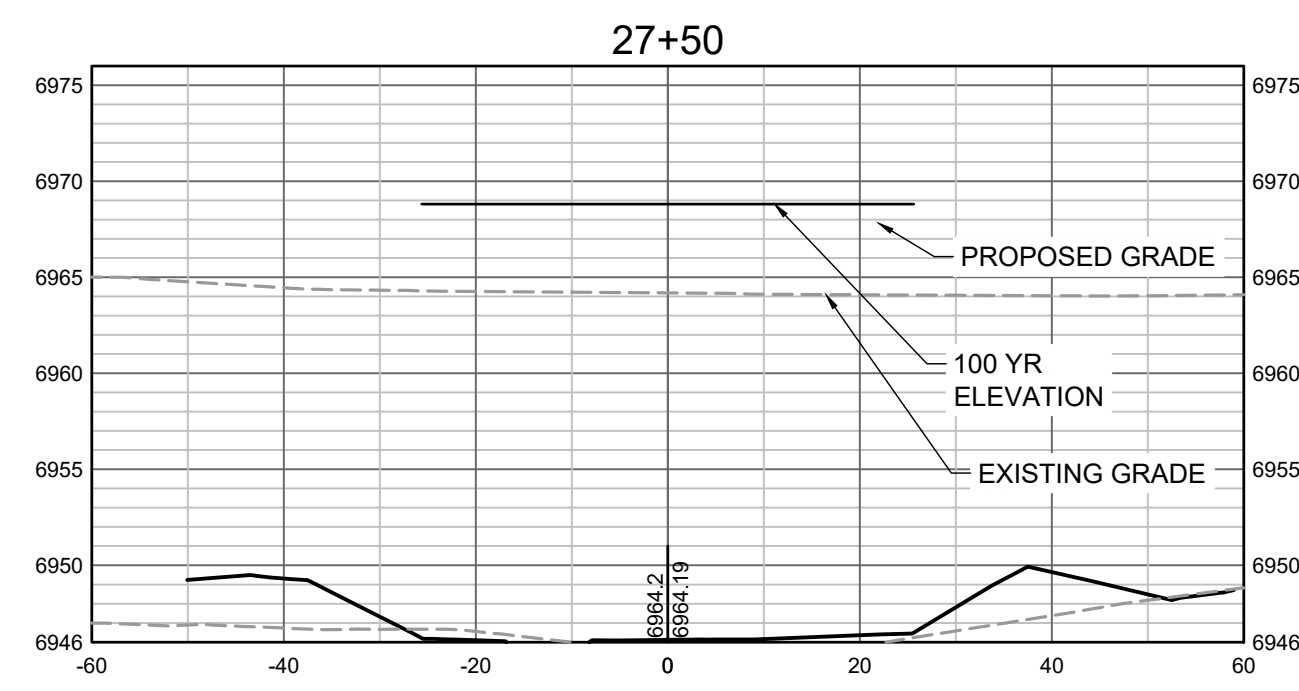
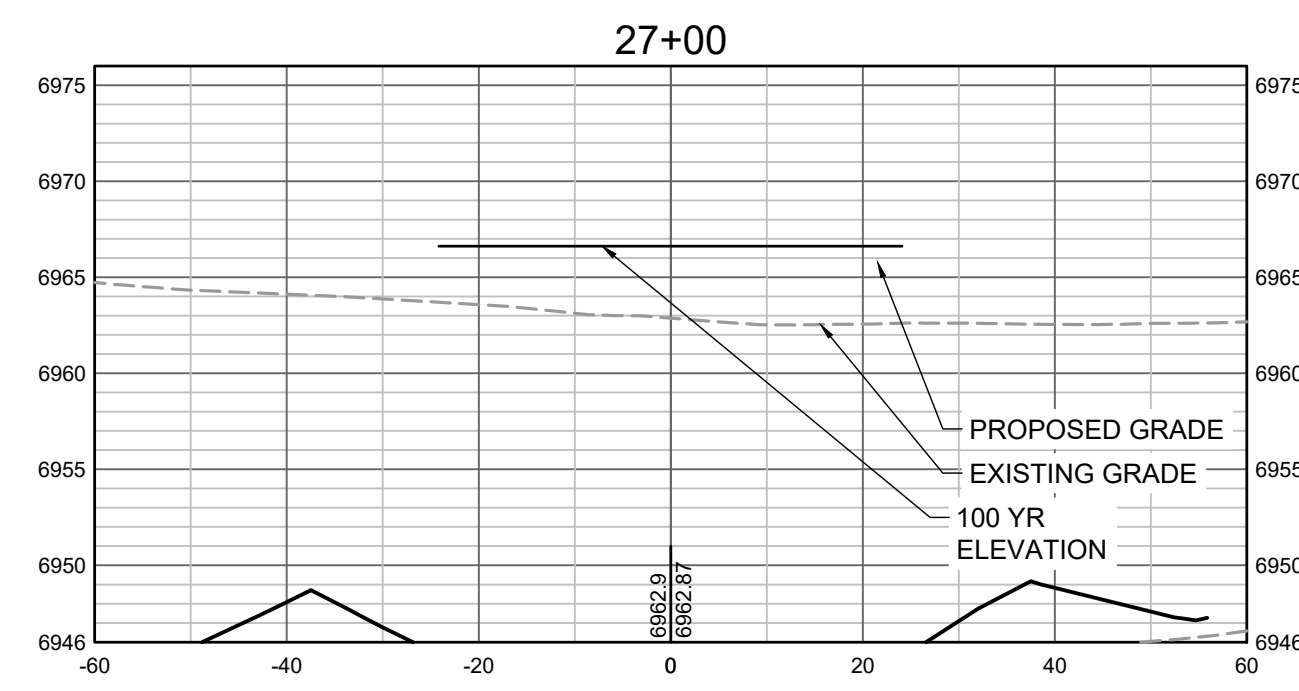
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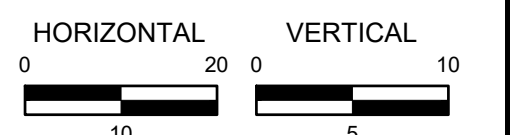
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SHEET  
**CS6**  
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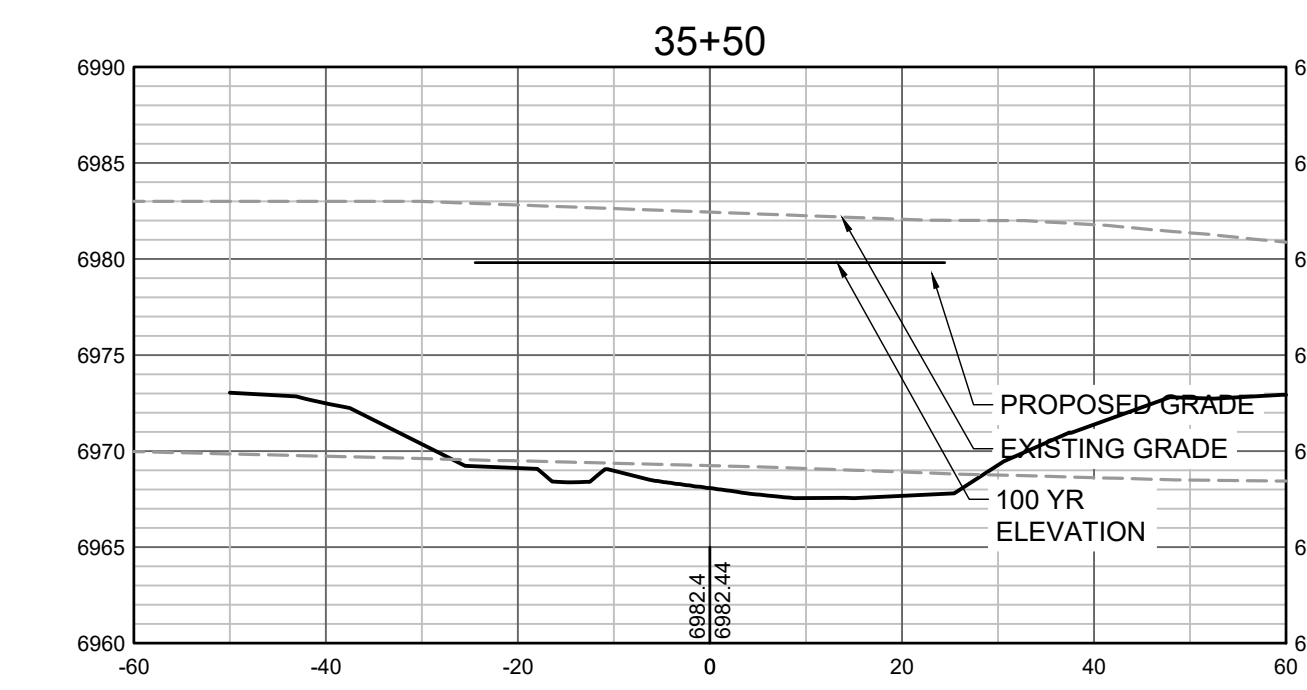
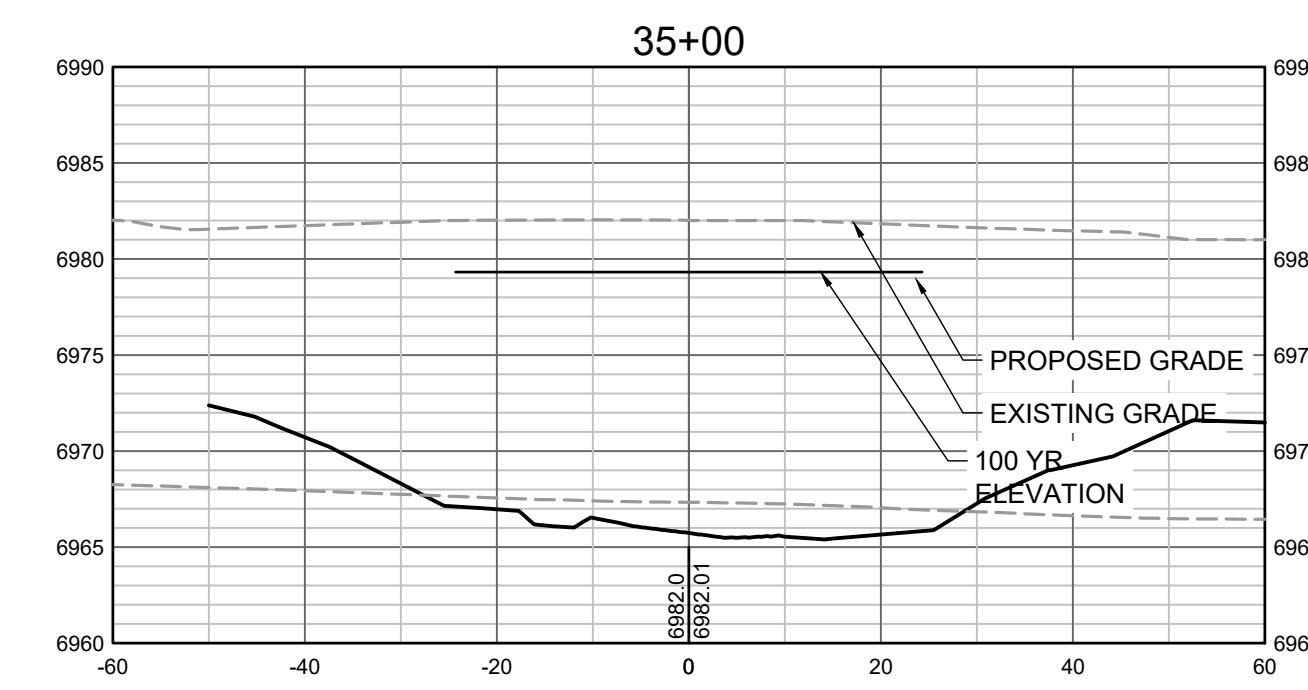
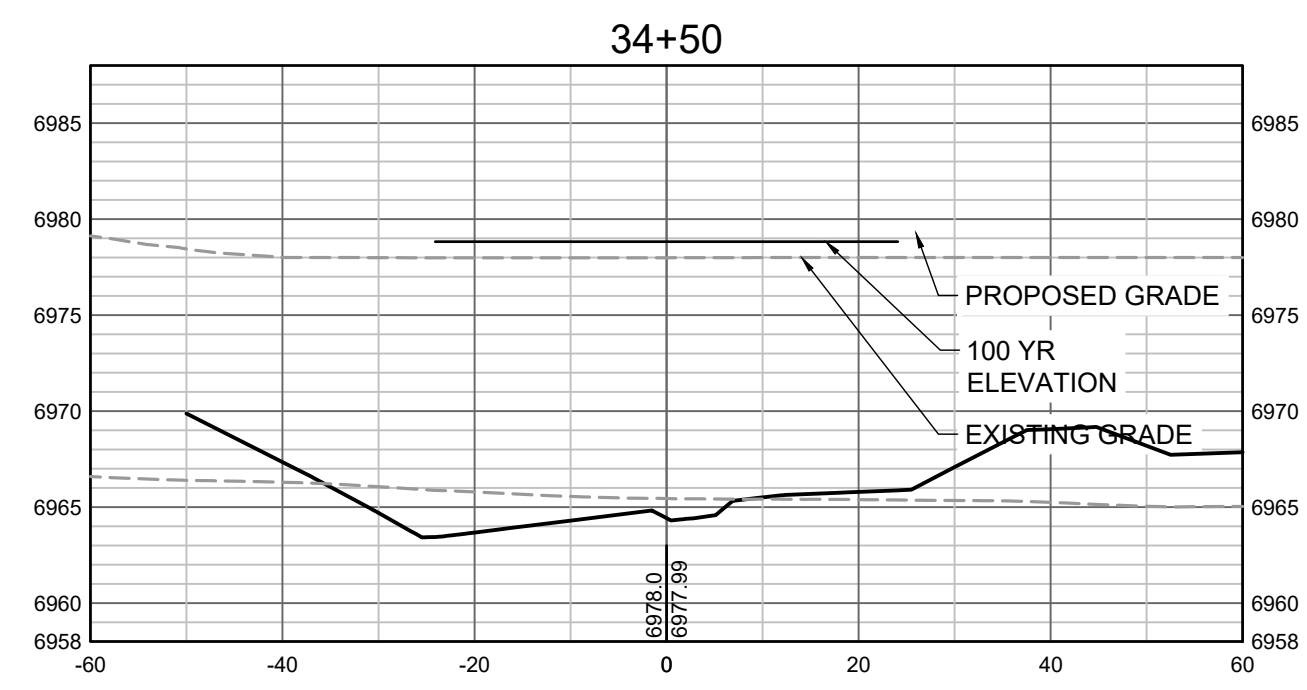
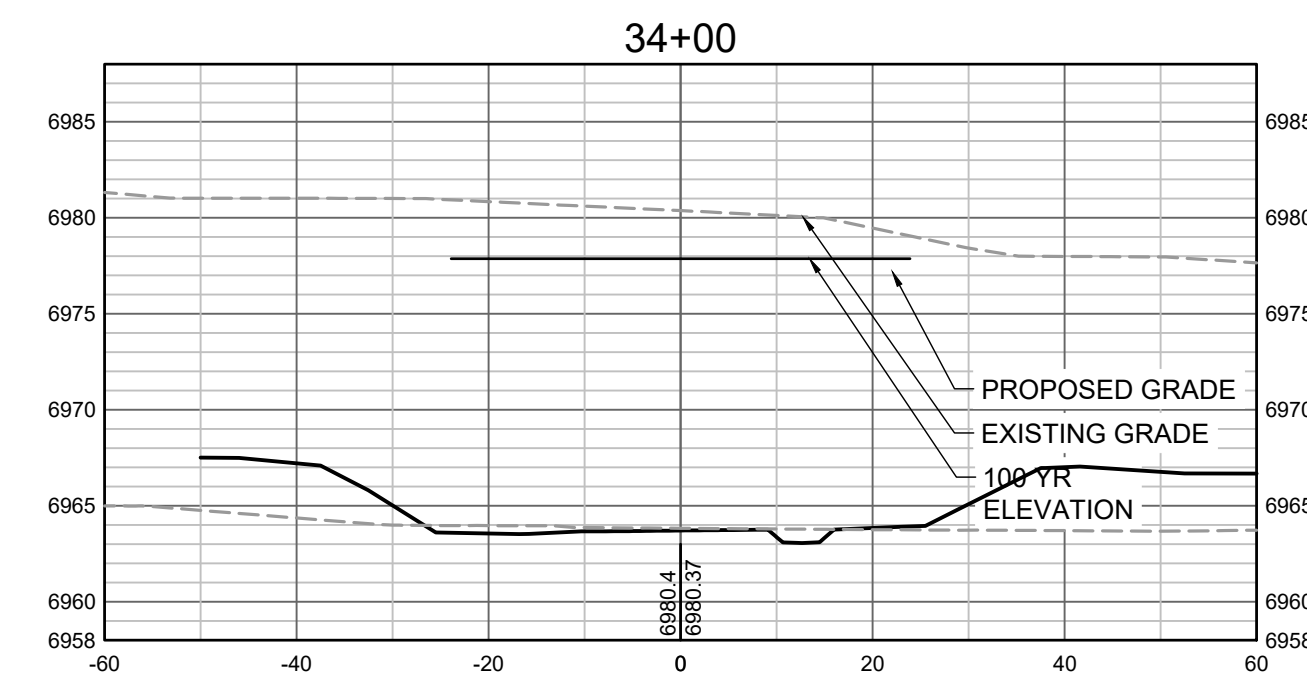
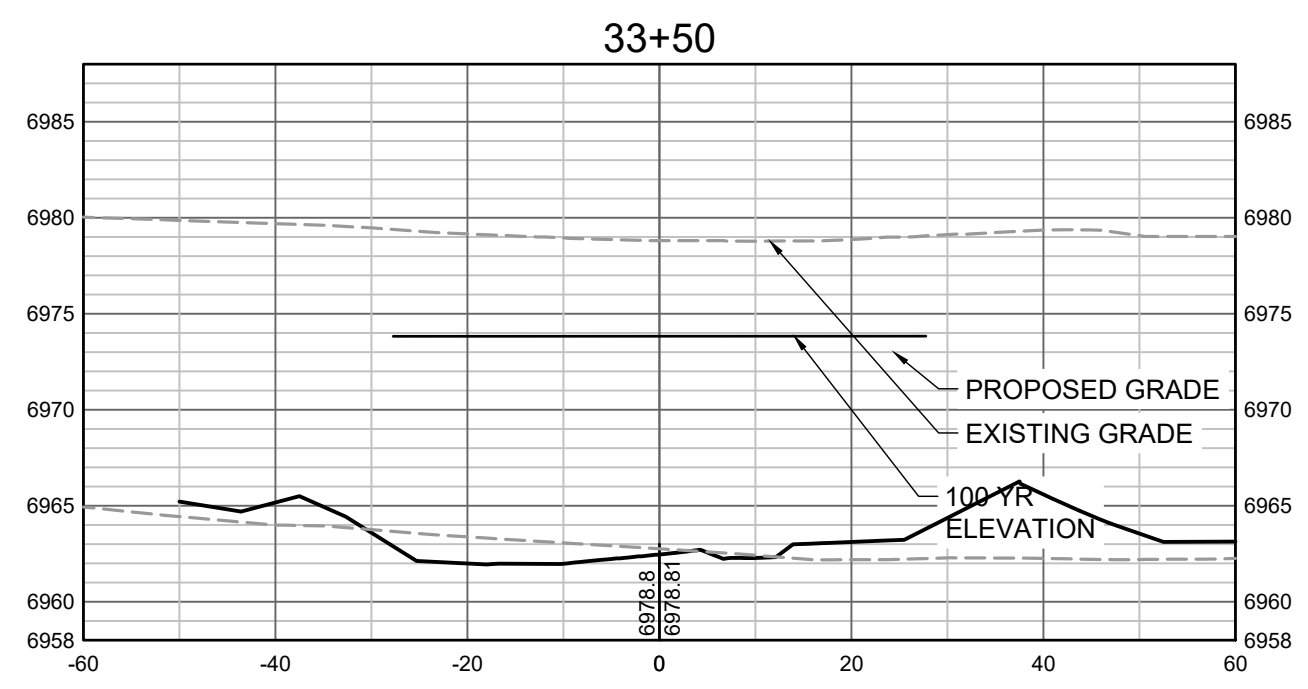
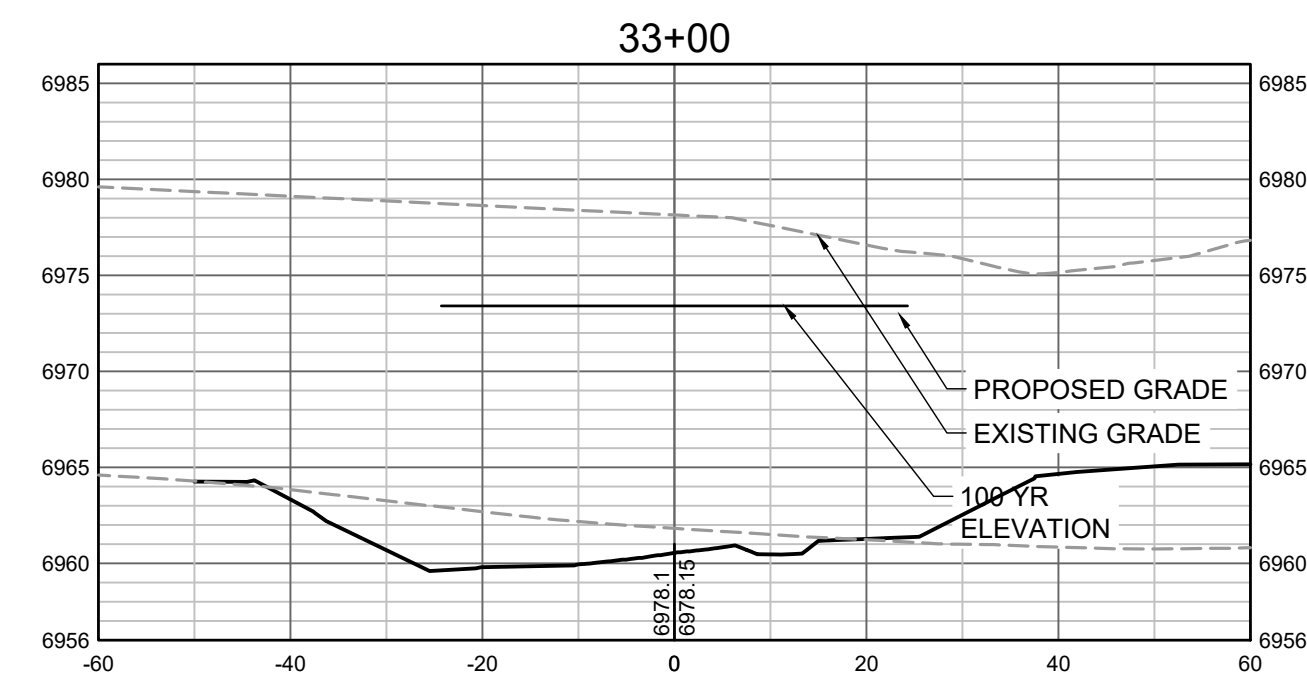
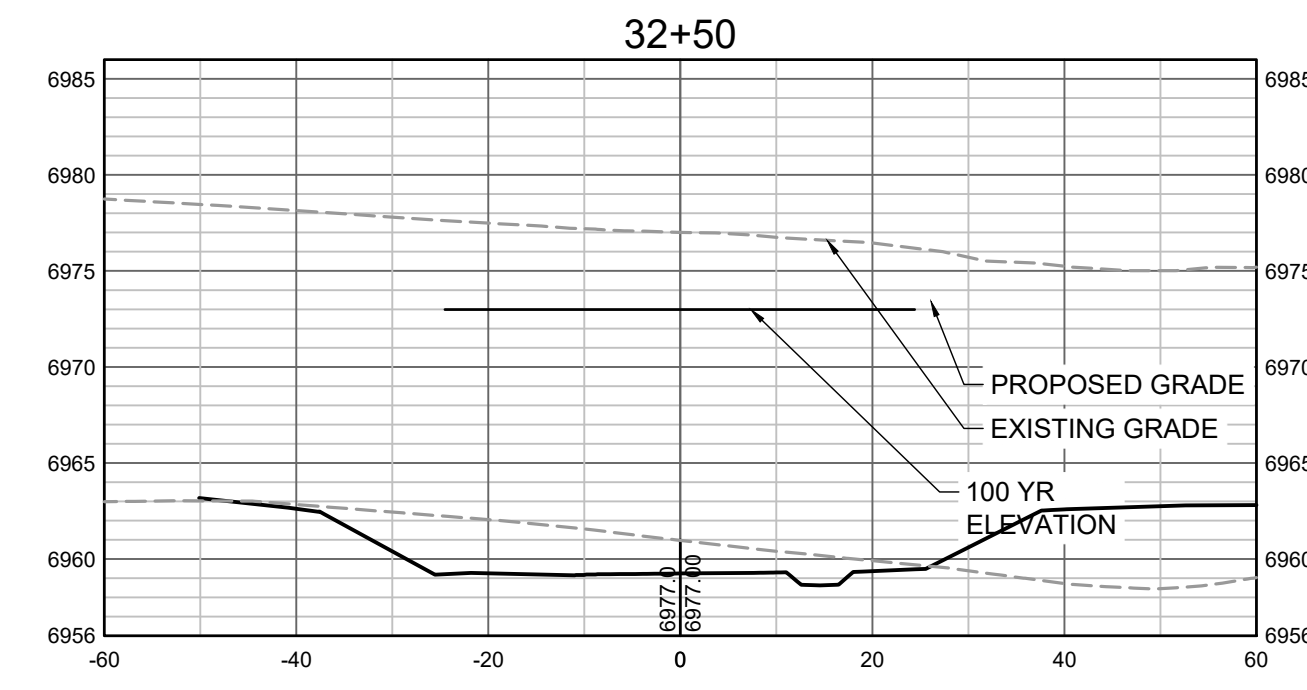
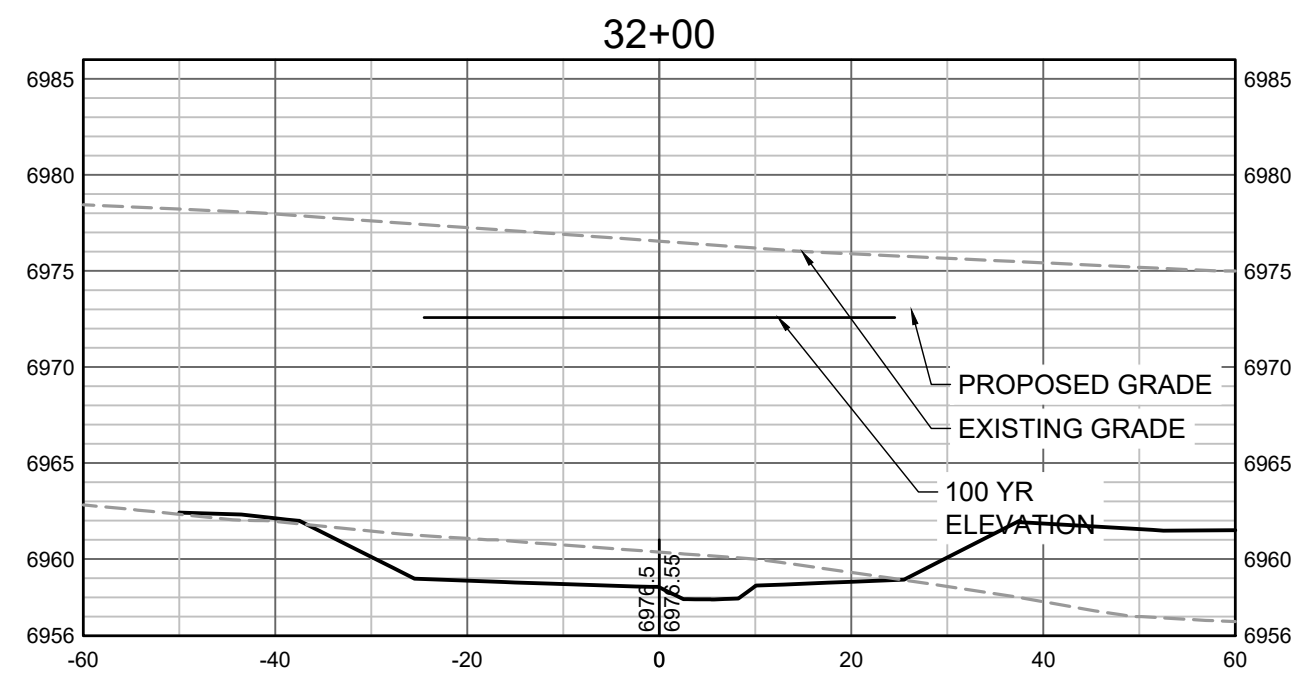
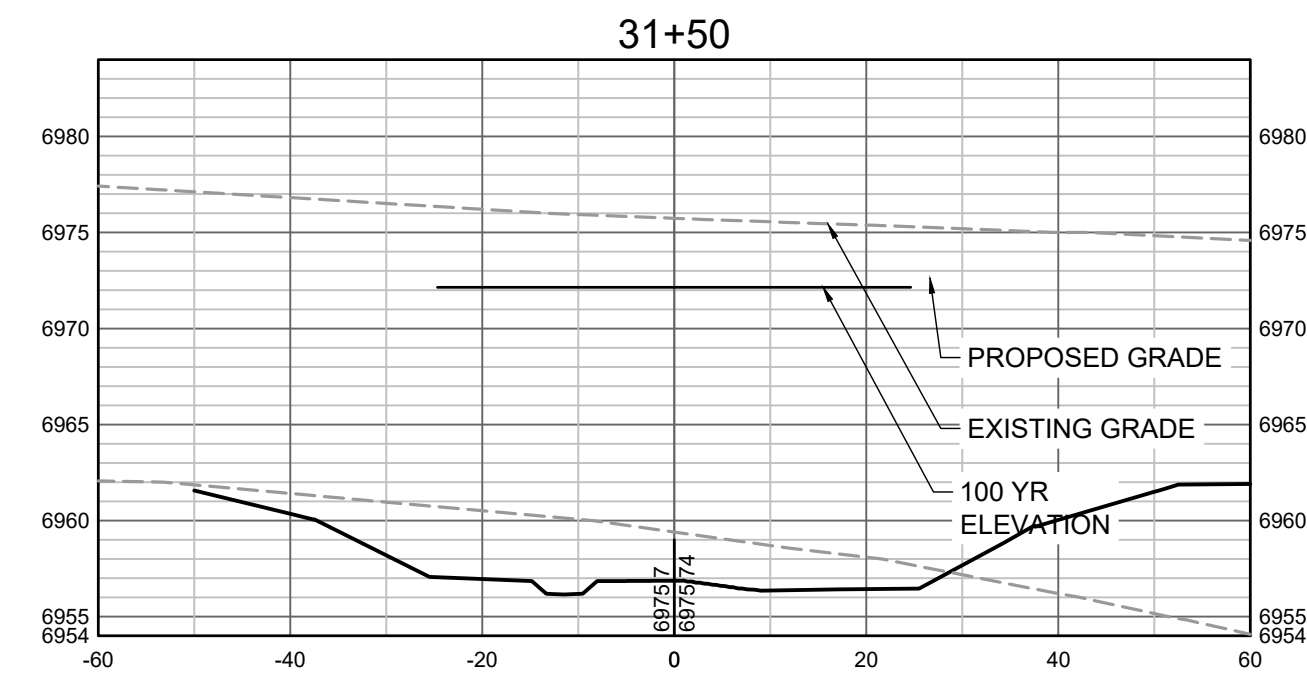
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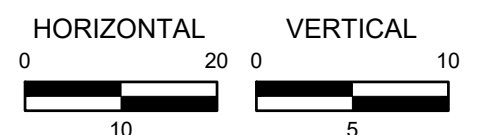
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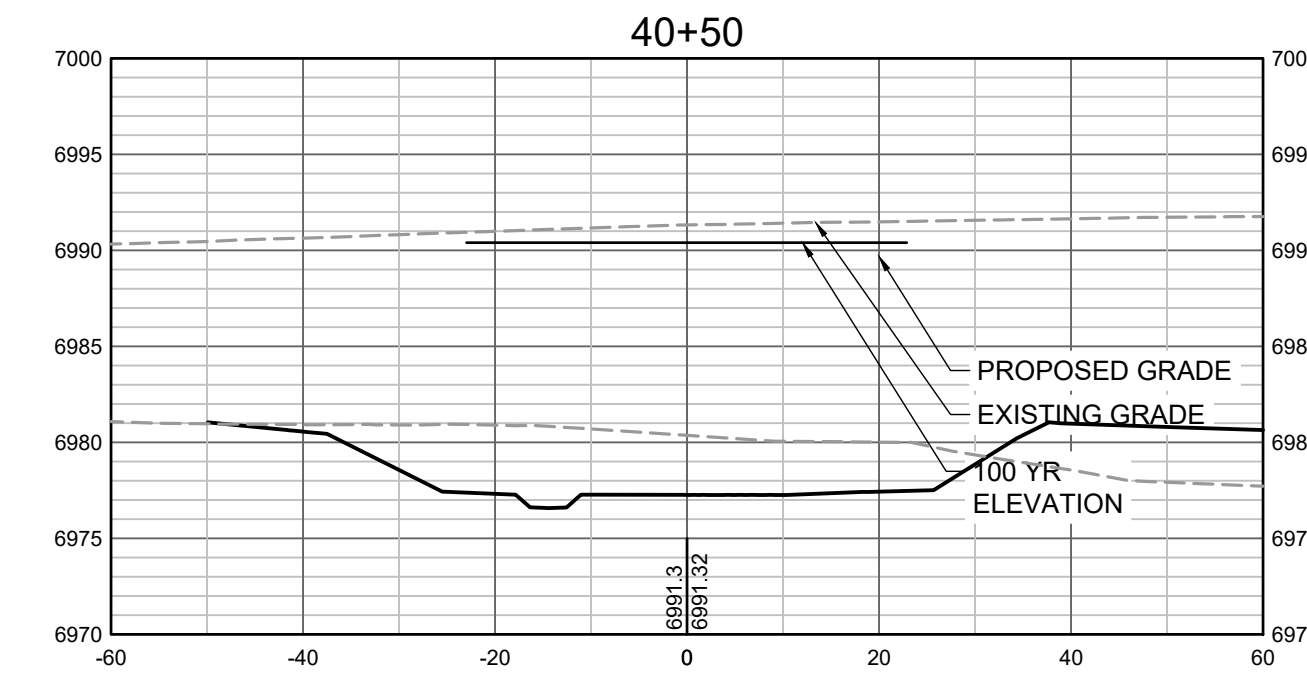
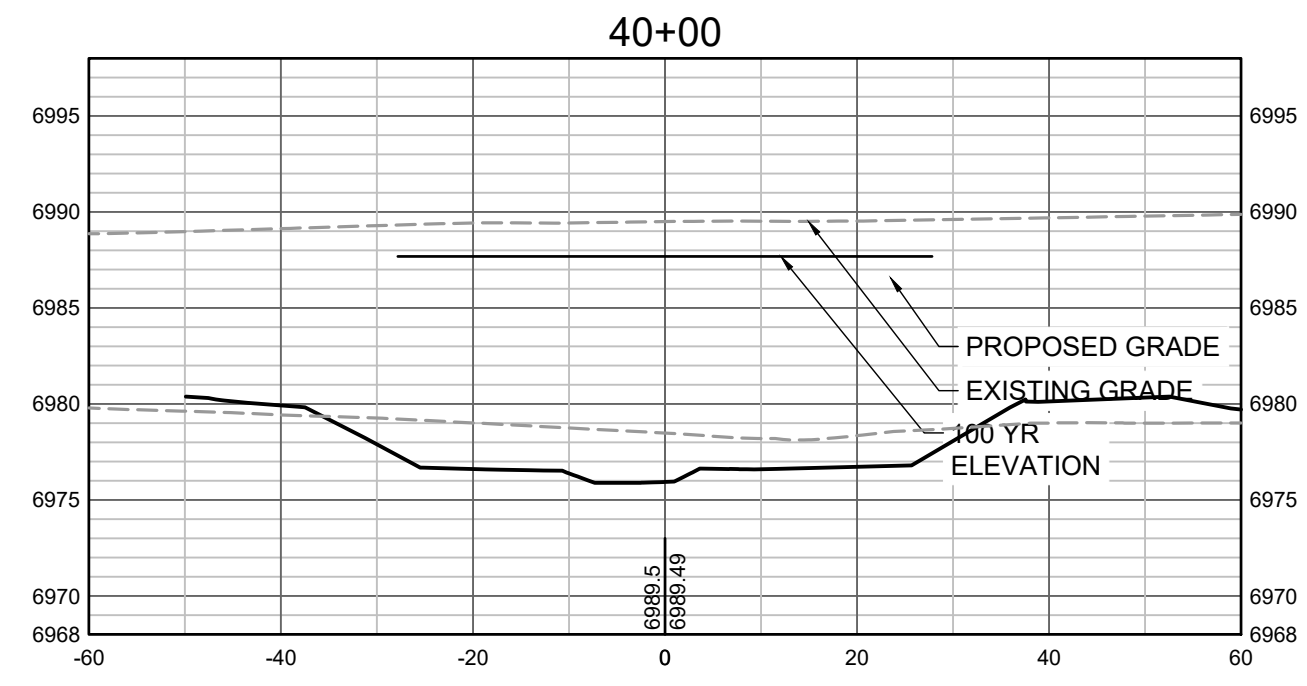
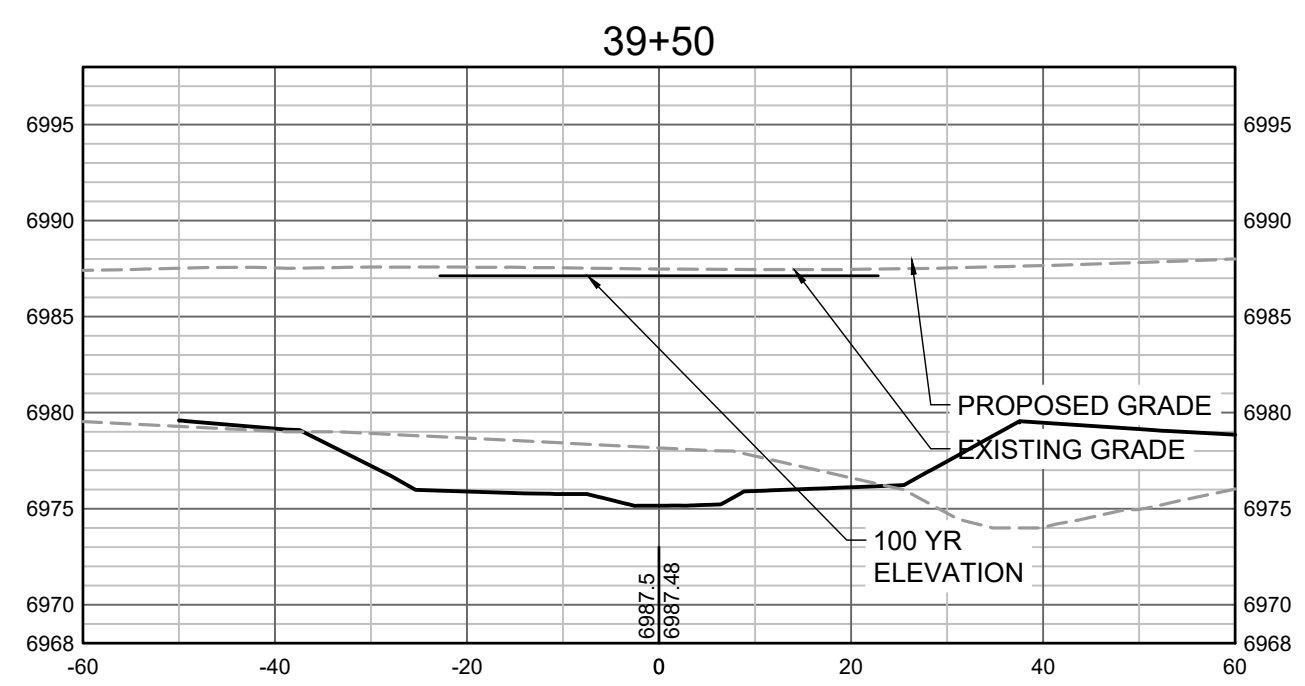
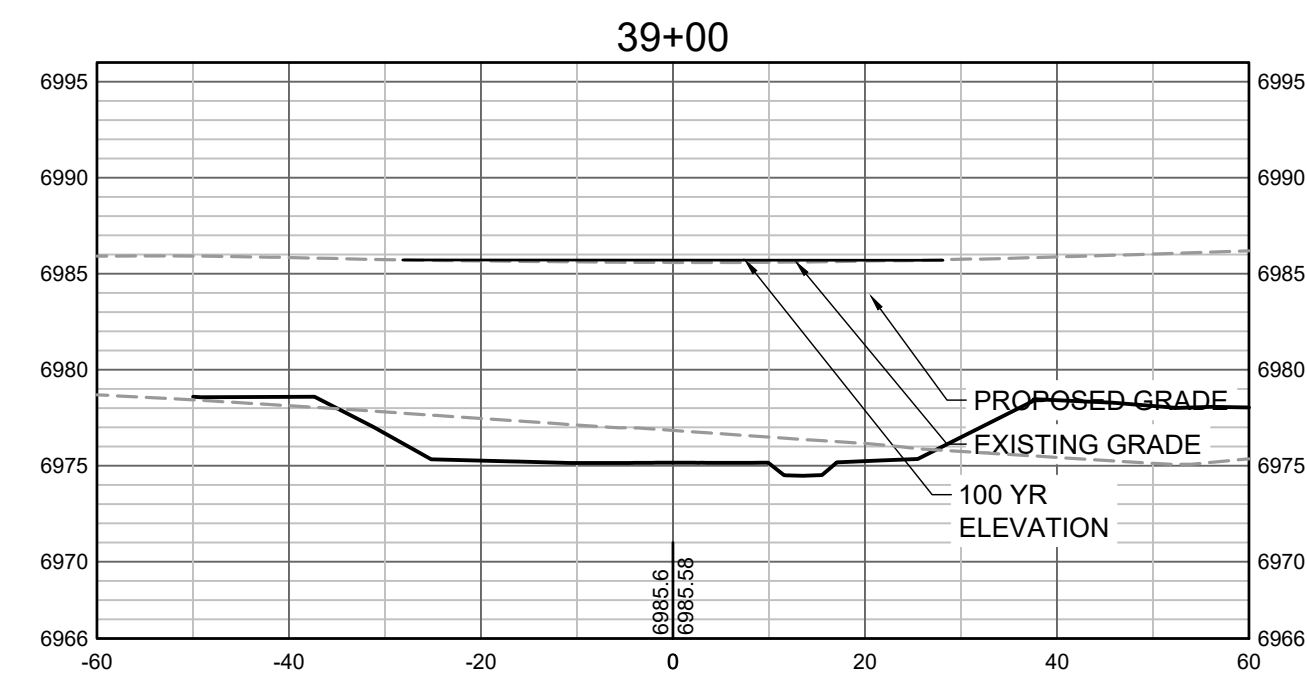
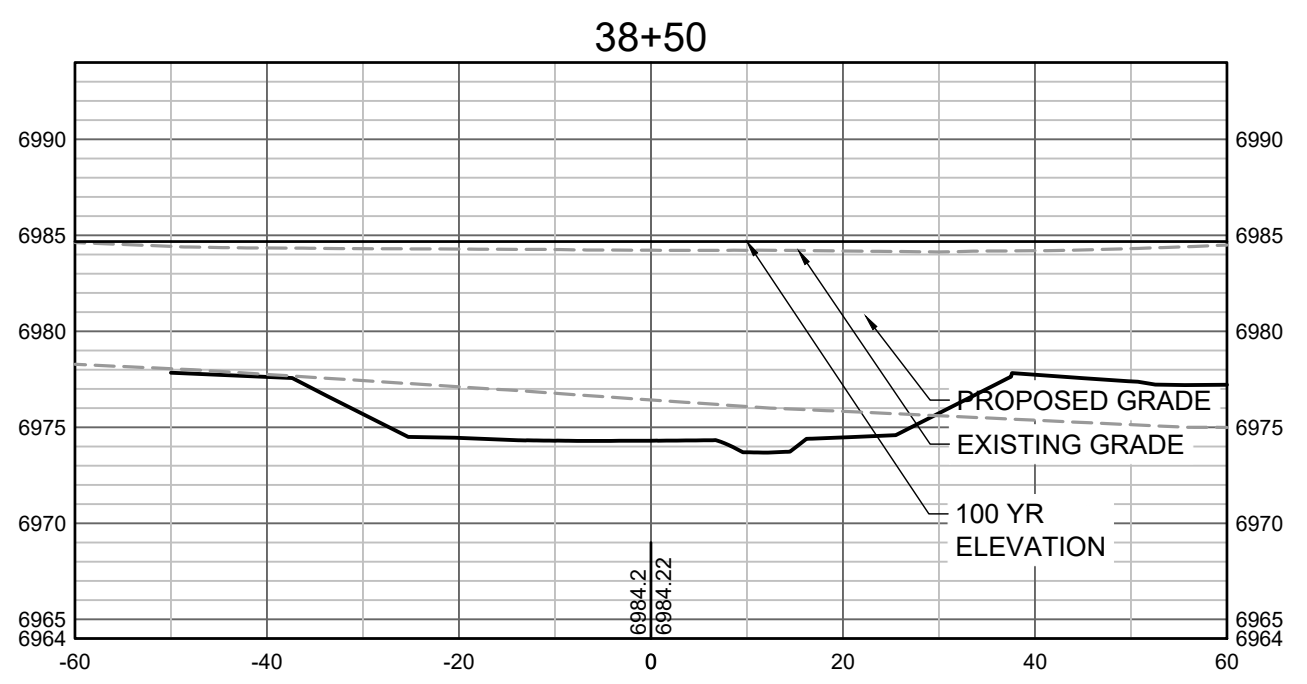
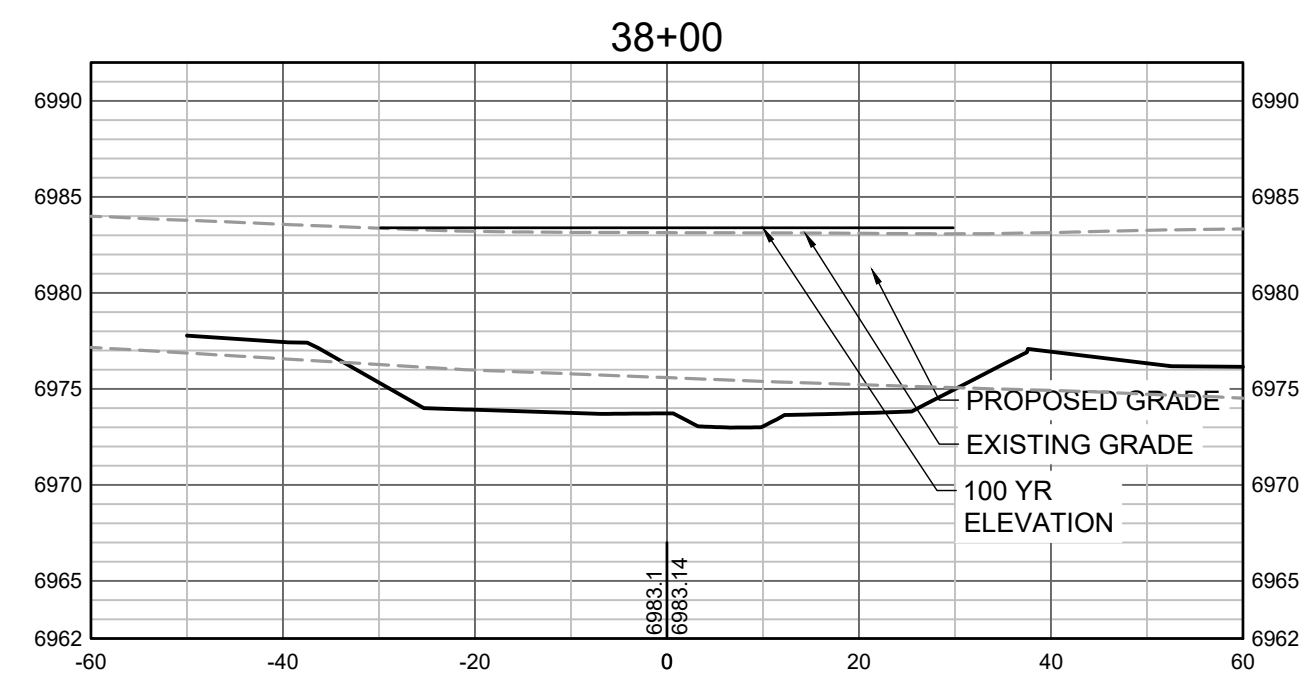
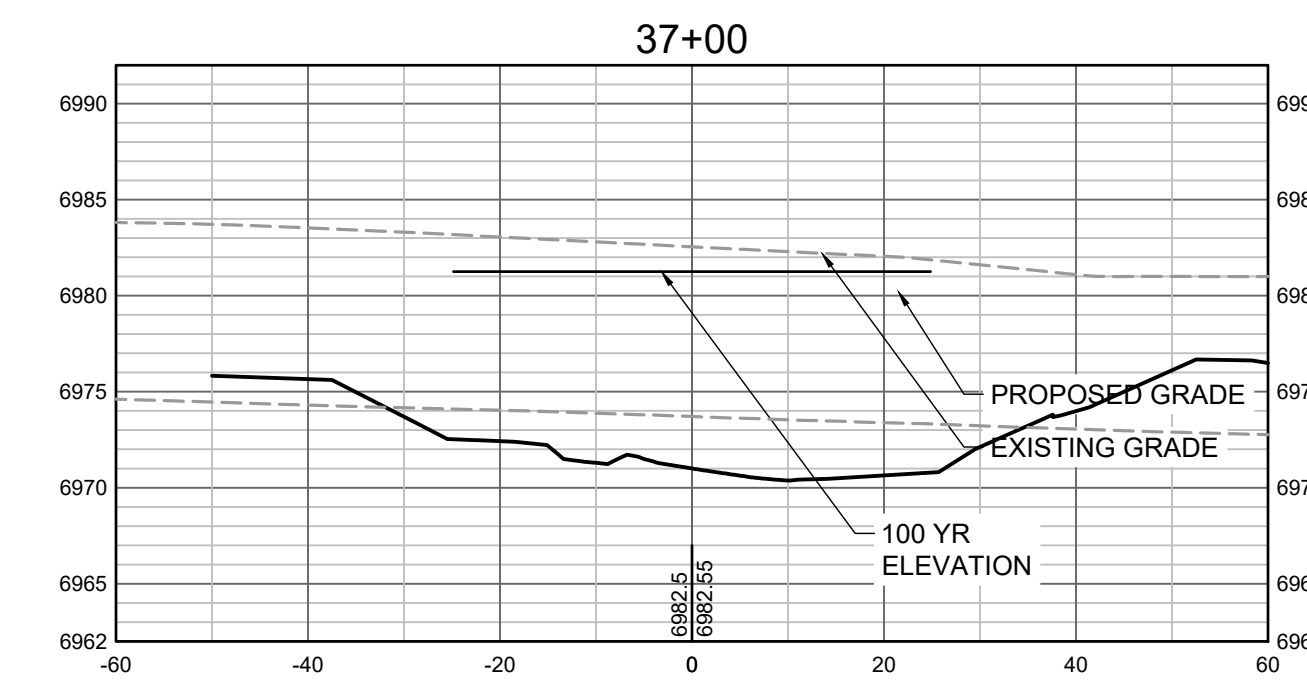
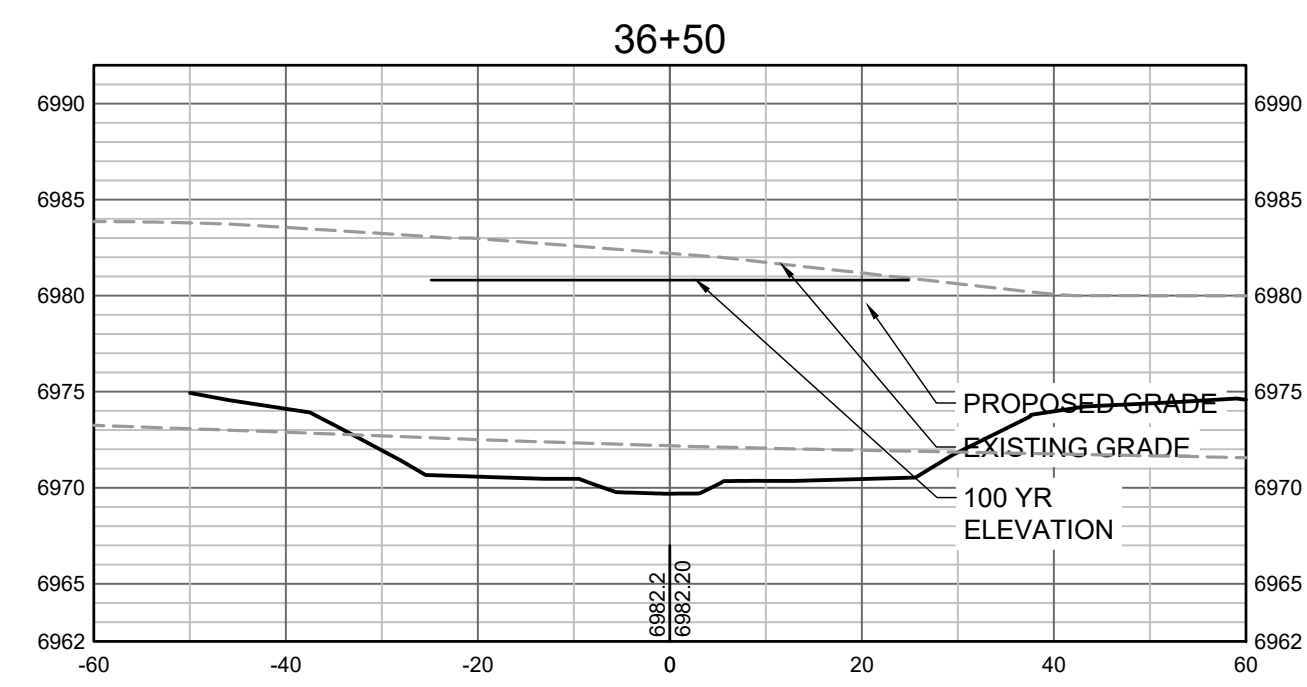
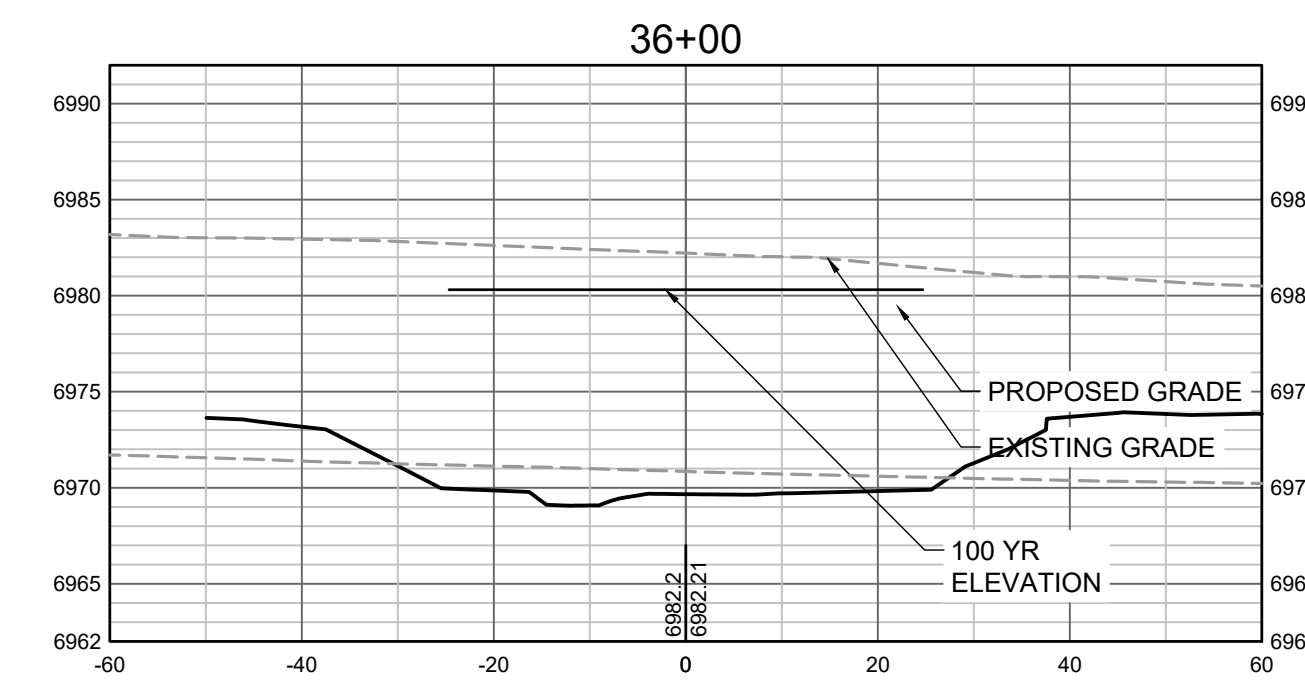
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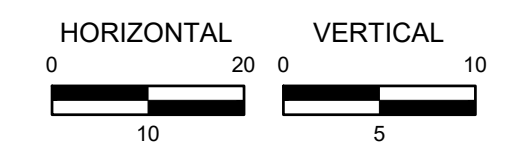
CONSTRUCTION DOCUMENTS  
 TRIBUTARY 2 CROSS SECTIONS

SHEET  
**CS8**  
 44





PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xrefs: xgs-1-dh01; 01-XC-PR\_100PR\_FP\_DELIMITATION

DRAWN BY: TBI      JOB DATE: 11/30/2023      BAR IS ONE INCH ON OFFICIAL DRAWINGS.  
 APPROVED: GLP      JOB NUMBER: 201662.03      0" = 1"  
 CAD DATE: 1/26/2024      IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.  
 CAD FILE: J:\2020\201662.03\CAD\DWGS\C\CROSS SECTIONS

NO.	DATE	BY	REVISION DESCRIPTION

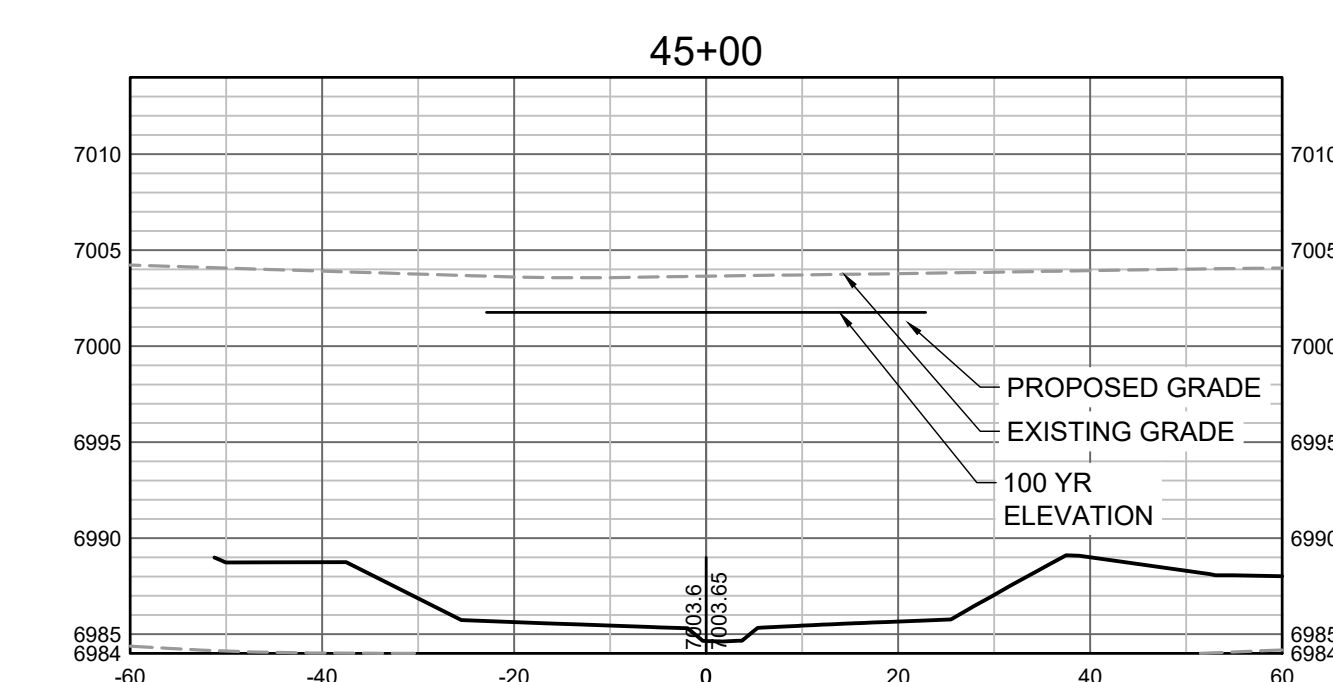
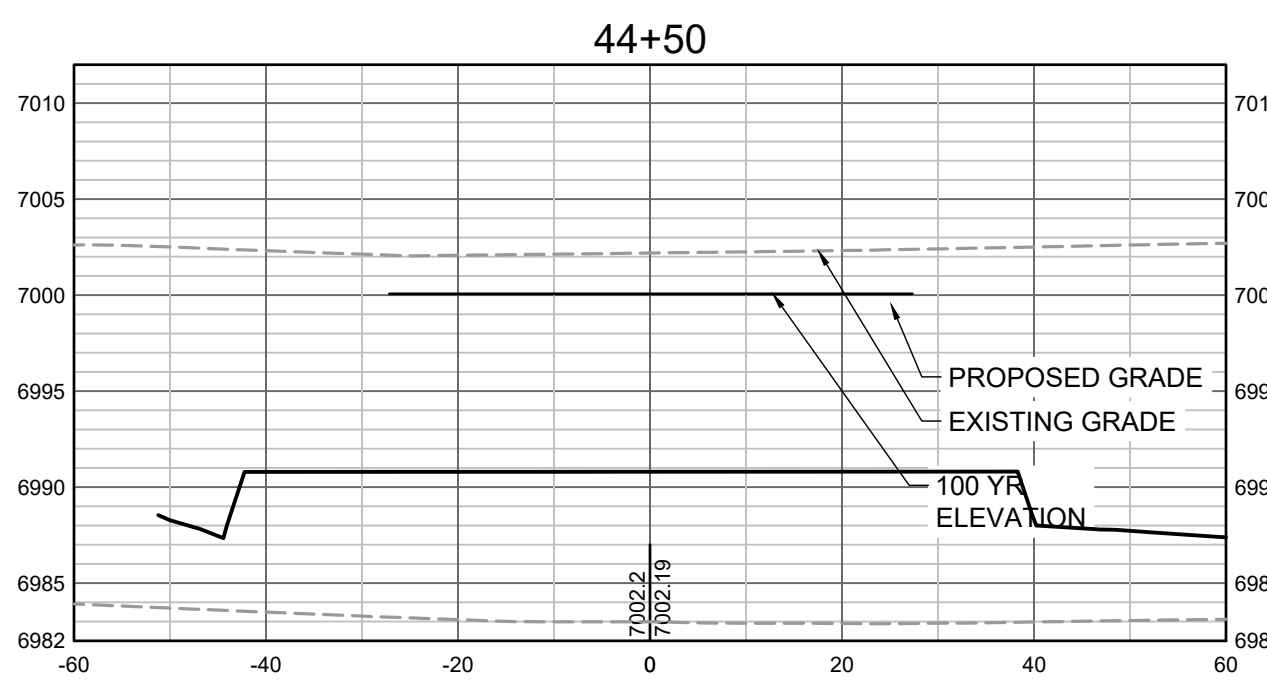
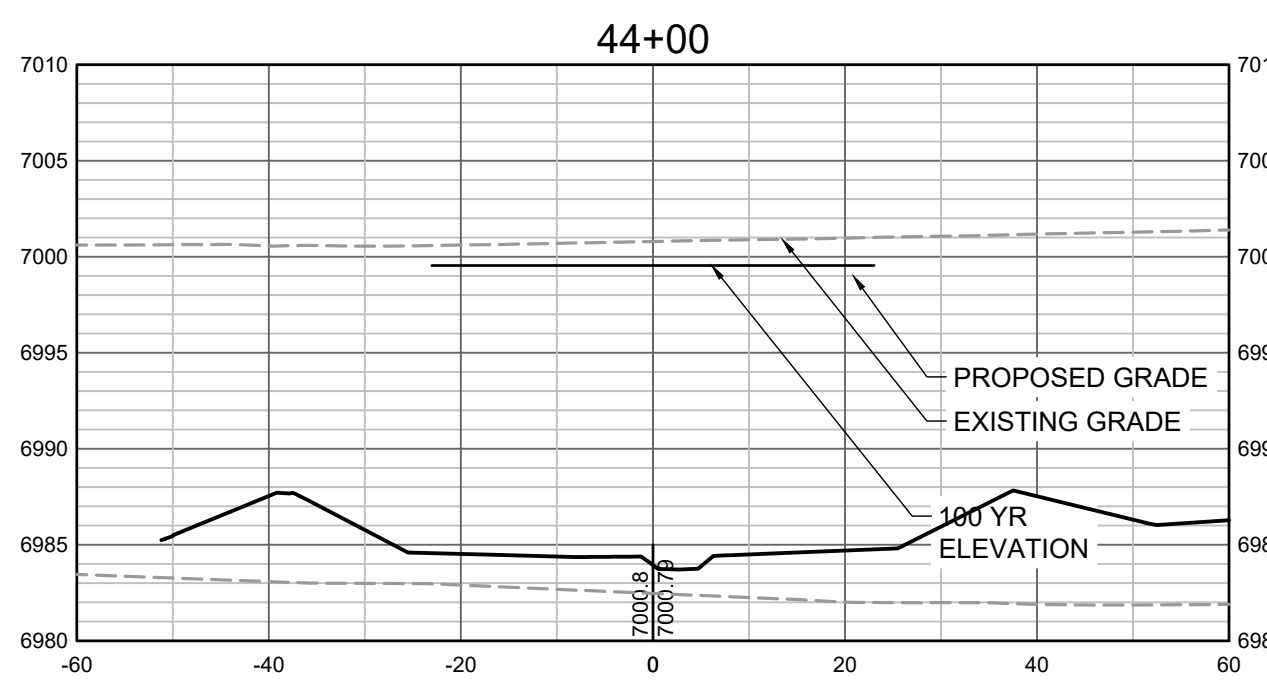
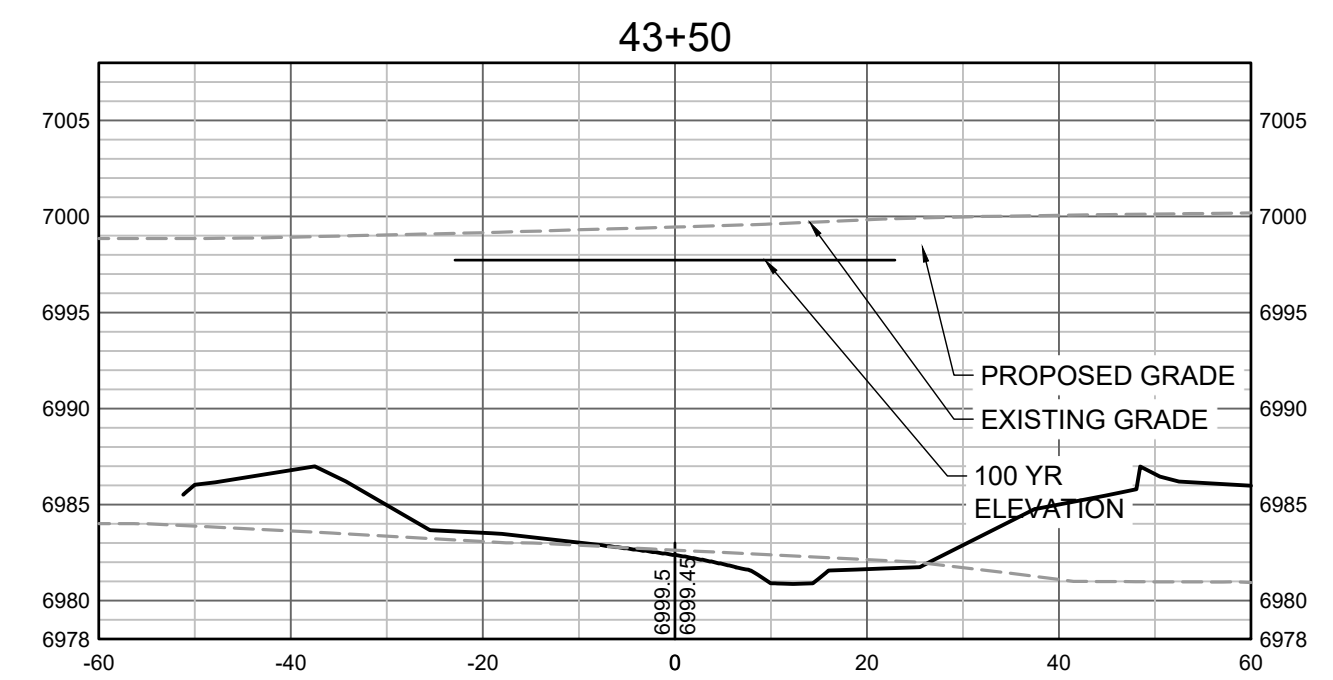
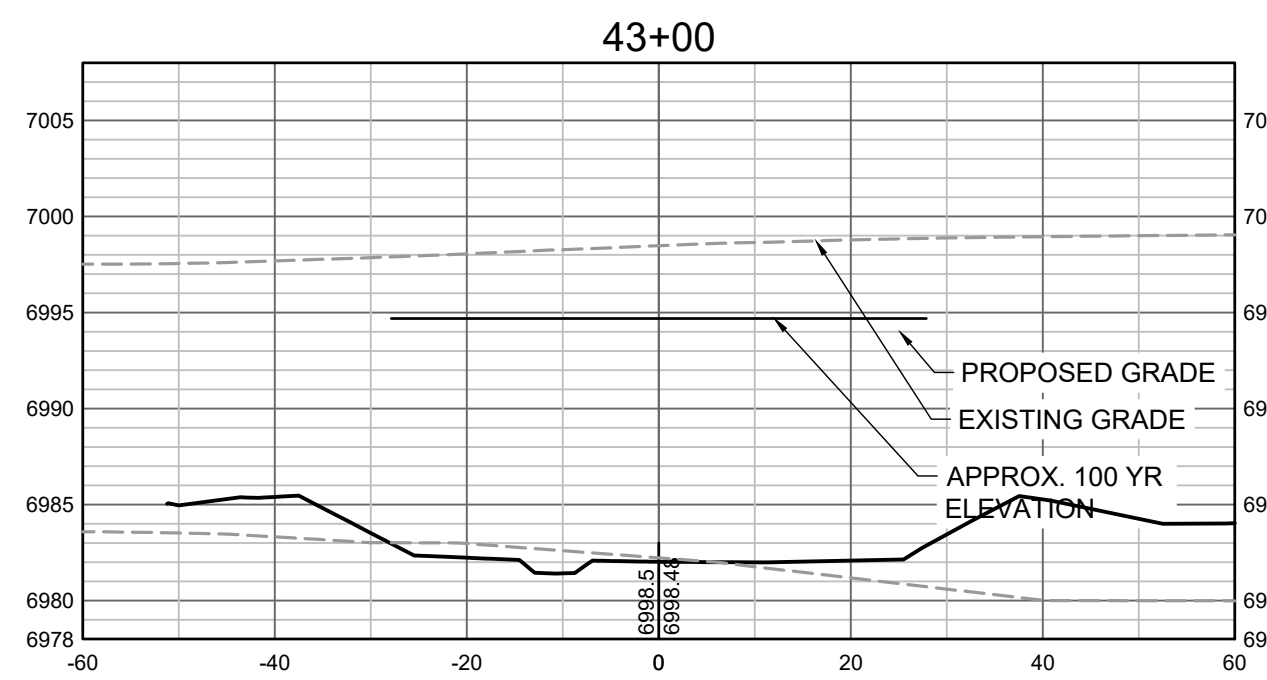
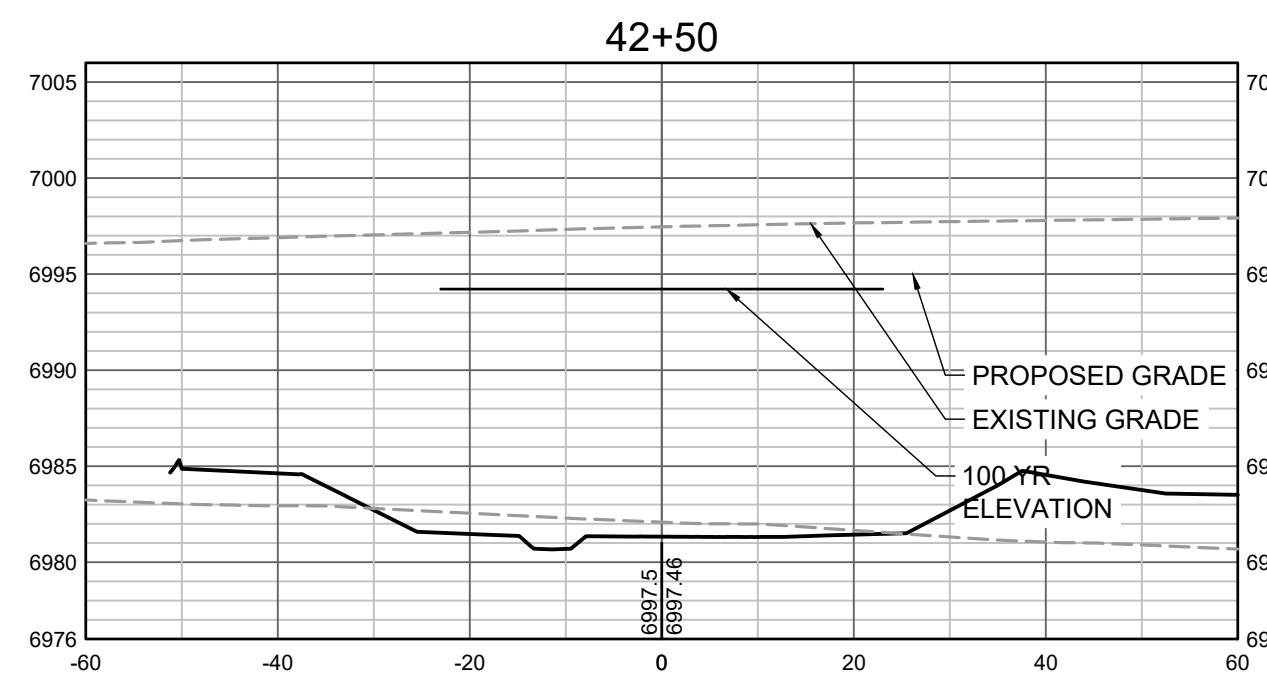
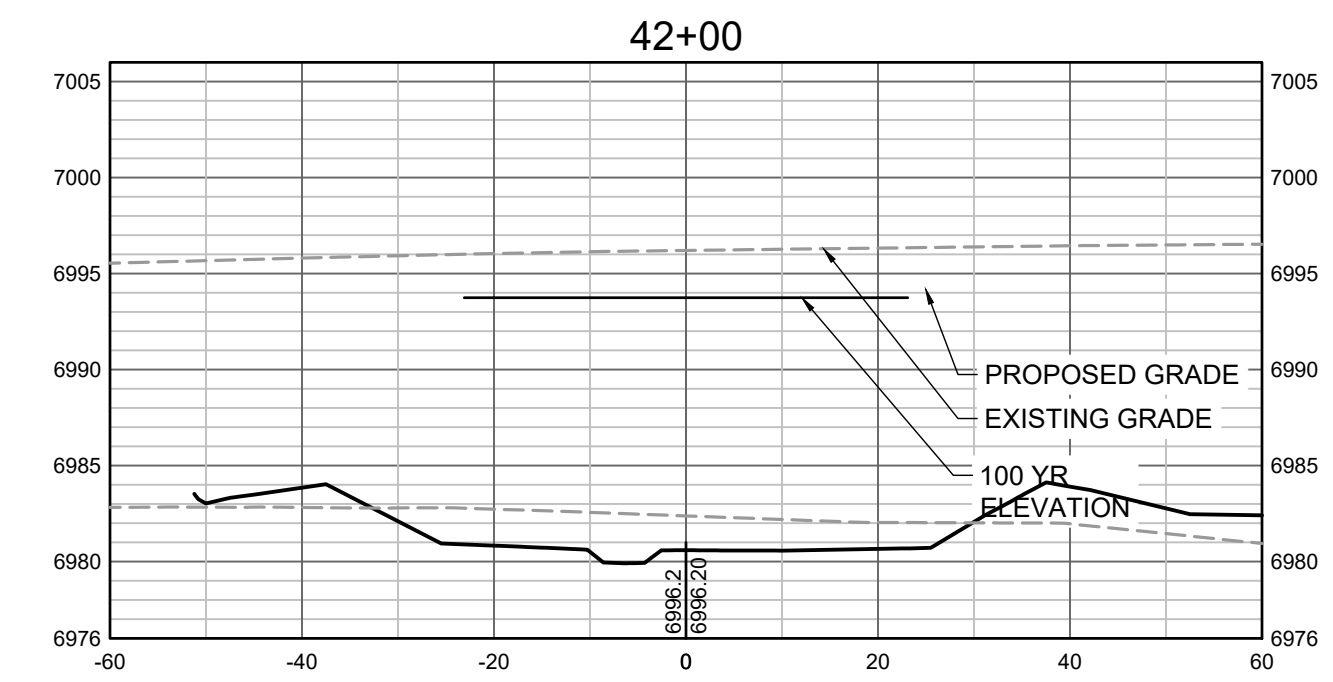
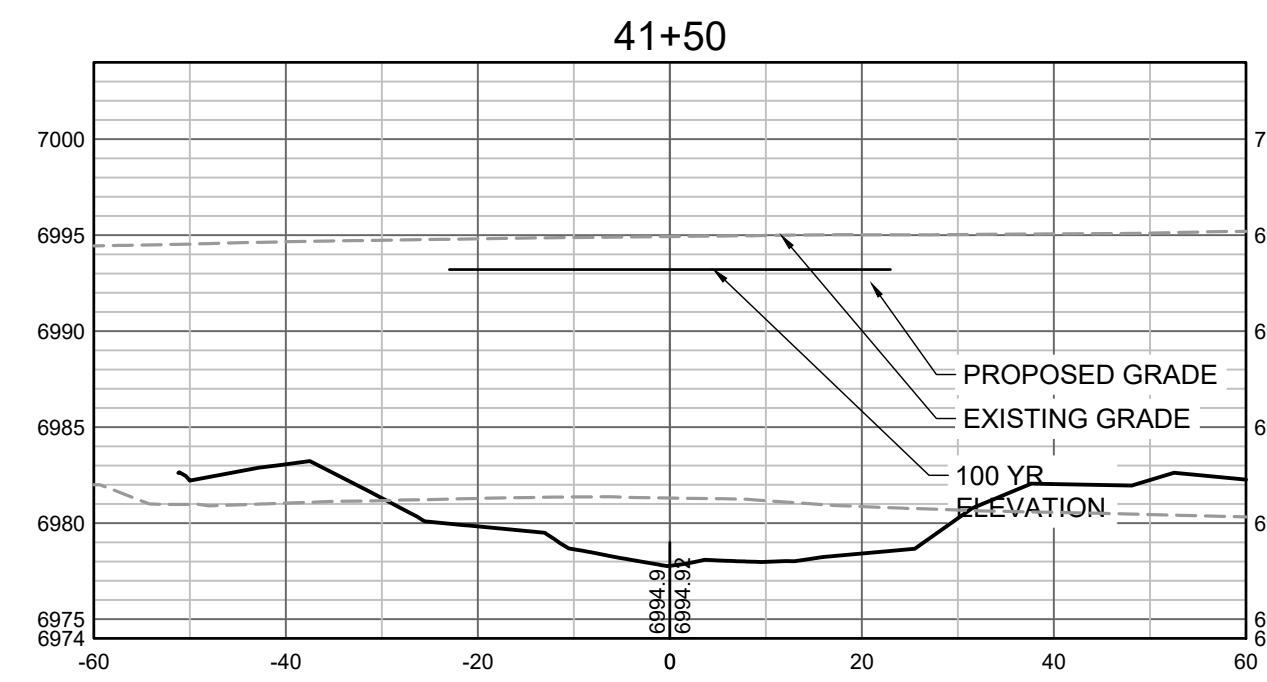
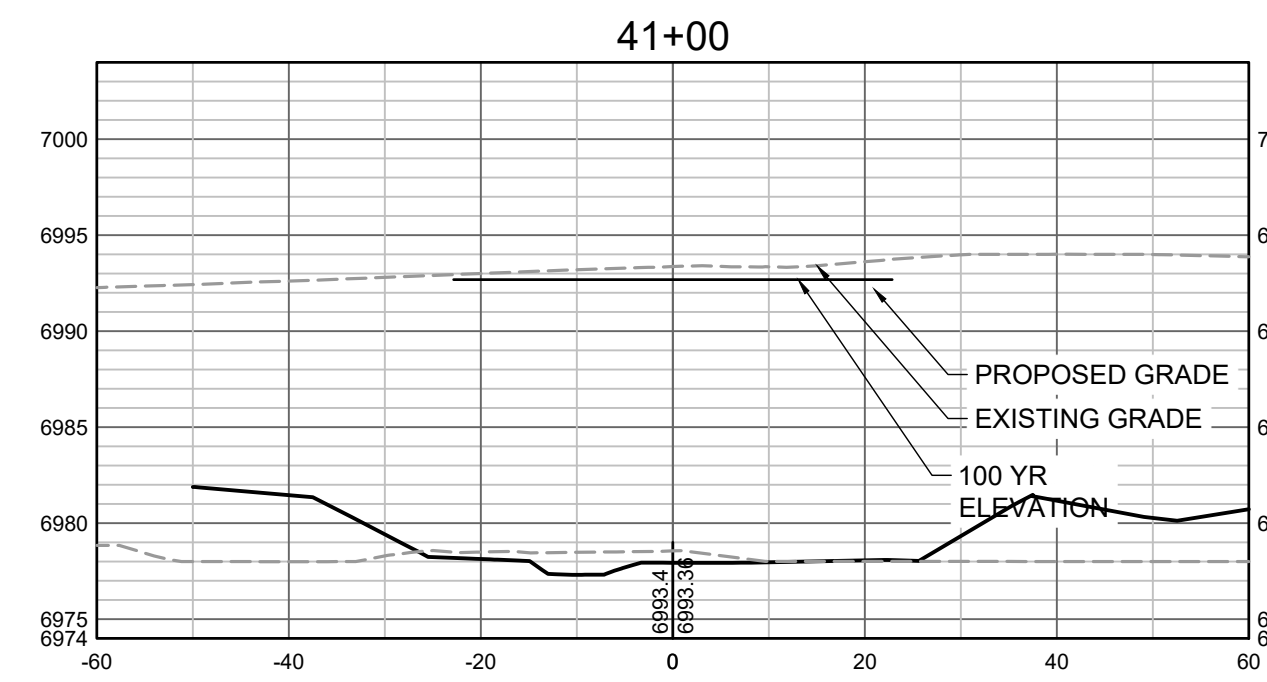
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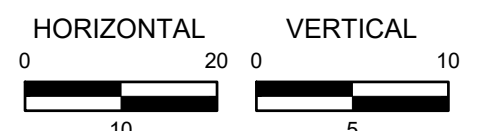
CONSTRUCTION DOCUMENTS  
 TRIBUTARY 2 CROSS SECTIONS

SHEET  
**CS9**  
 45





PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



HR GREEN Xrefs: xgs:1-dh01; 01-XC-PR\_100YR\_FP\_DELIMITATION

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 APPROVED: GLP JOB NUMBER: 201662.03  
 CAD DATE: 1/26/2024  
 CAD FILE: J:\2020\201662.03\CAD\DWGS\C\CROSS SECTIONS

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NO.	DATE	BY	REVISION DESCRIPTION



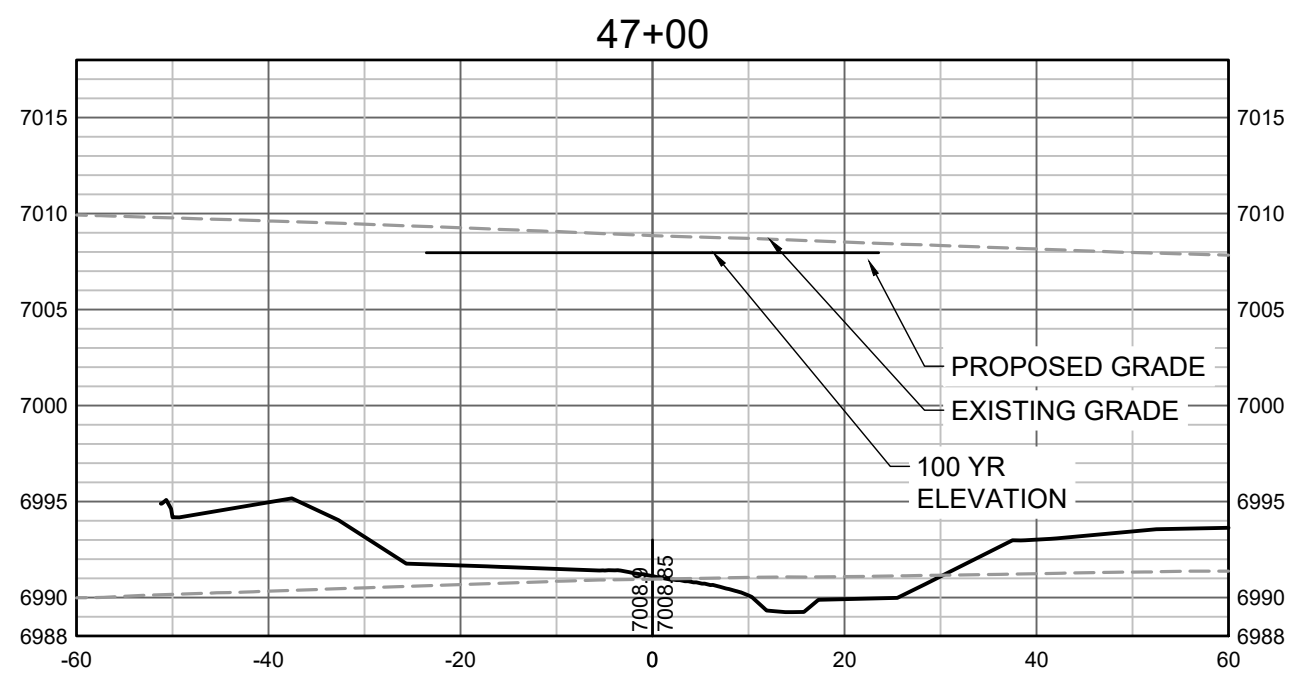
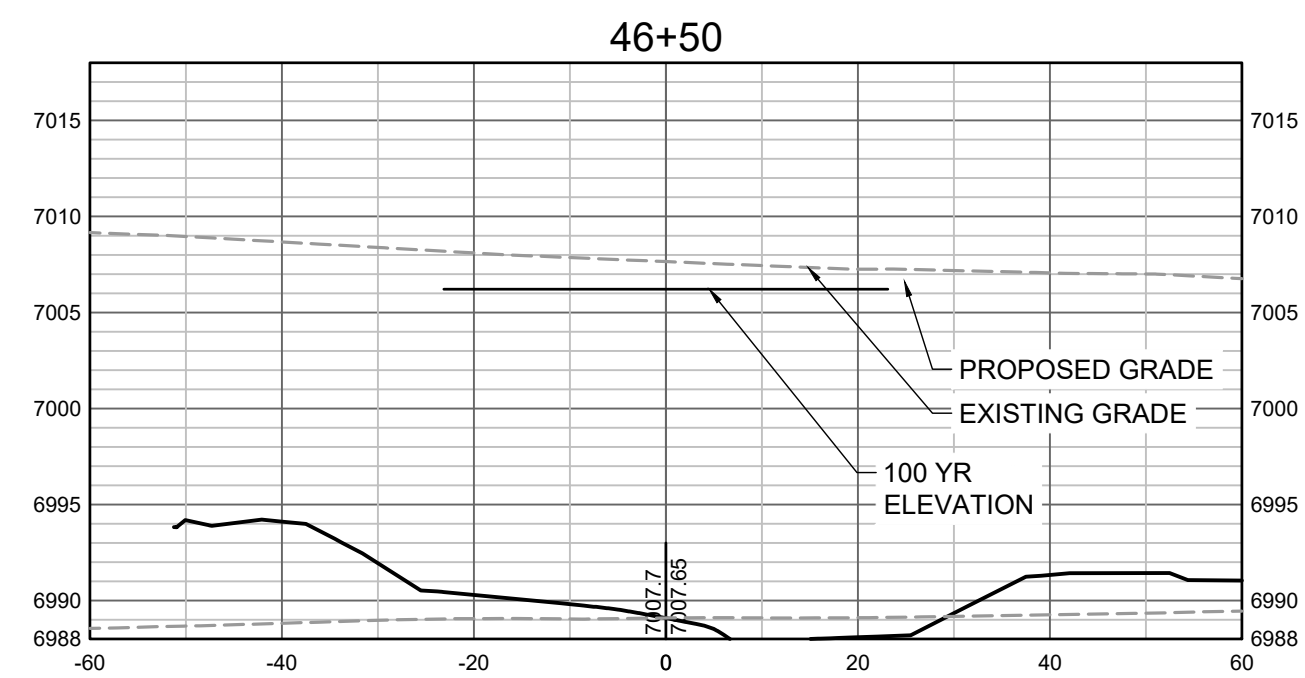
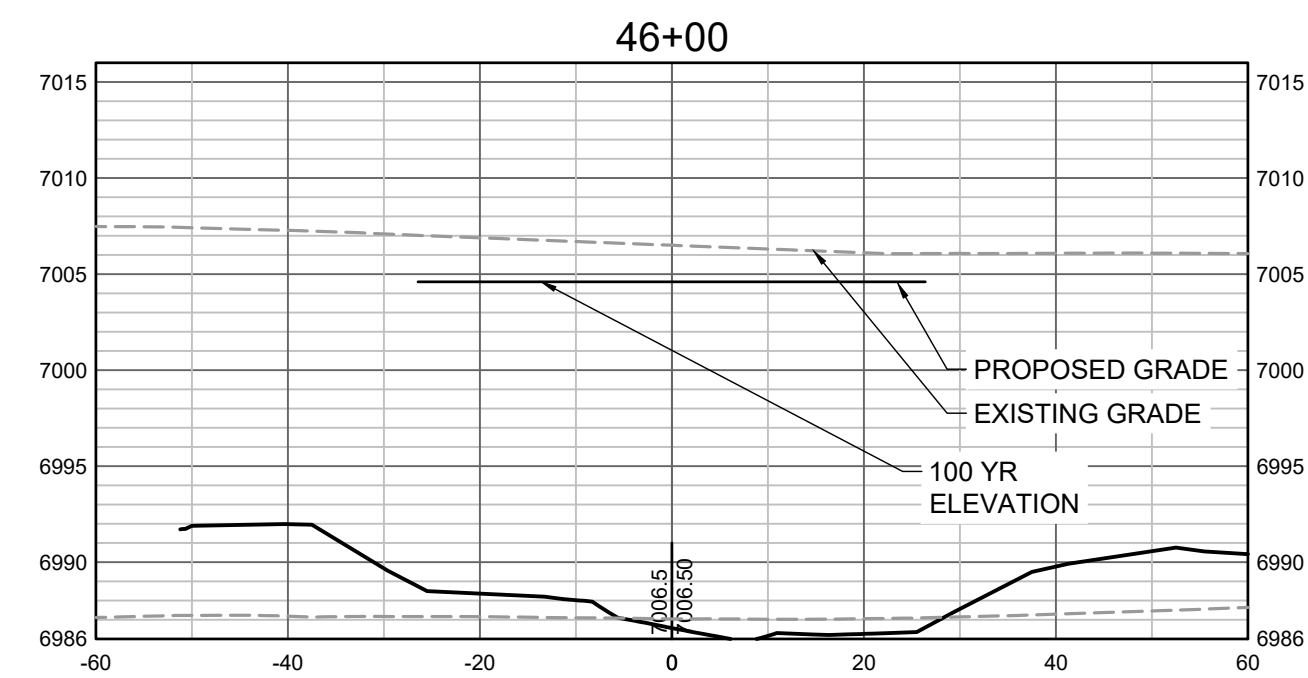
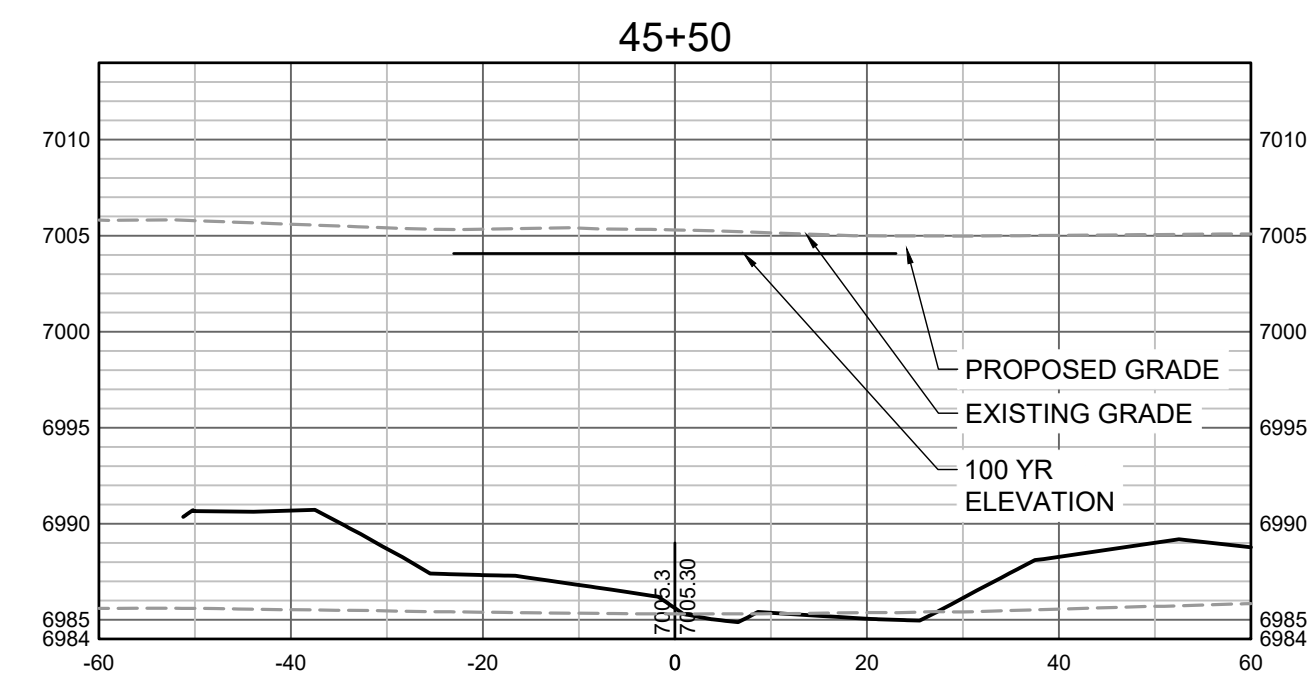
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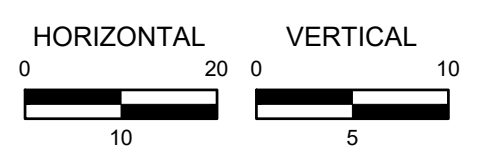
CONSTRUCTION DOCUMENTS  
 TRIBUTARY 2 CROSS SECTIONS

SHEET  
**CS10**  
**46**





PROPOSED GRADES TO TIE INTO GRANDVIEW RESERVE FILING 1. REFER TO THE GRANDVIEW RESERVE FILING 1 PLAN SET FOR CONTINUATION OF GRADING THAT IS BEING TIED INTO OUTSIDE OF CHANNEL GRADING LIMITS.



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DRAWN BY: TBI      JOB DATE: 11/30/2023  
 APPROVED: GLP      JOB NUMBER: 201662.03  
 CAD DATE: 1/26/2024  
 CAD FILE: J:\2020\201662.03\CAD\DWG\CROSS SECTIONS

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SHEET  
**CS11**  
**47**