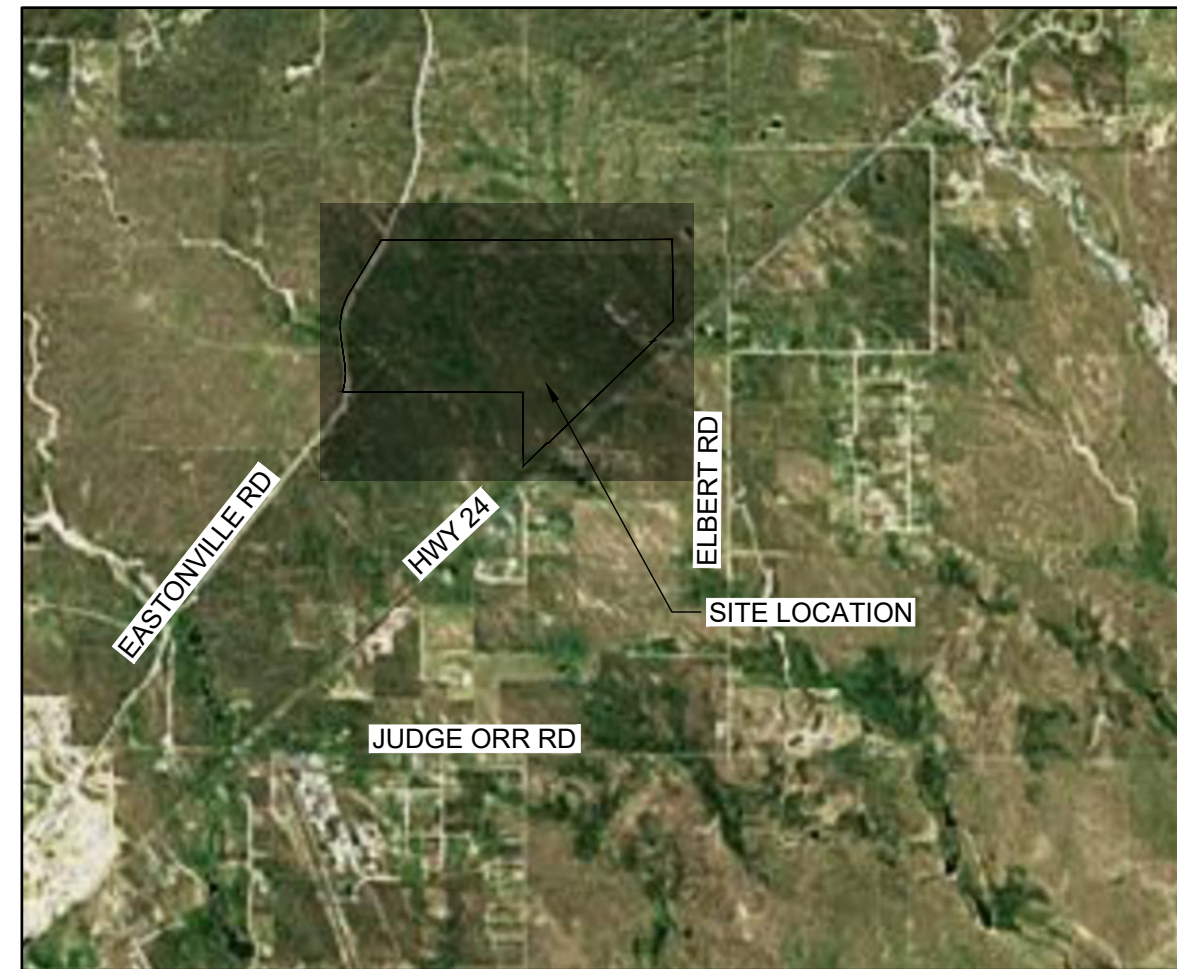


GRANDVIEW, DRAINAGE A & B GIECK RANCH MAIN STEM TRIBUTARY 1 & 2

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

SYMBOLS, ABBREVIATIONS, AND LINETYPES LEGEND

	CWA	CONCRETE WASHOUT AREA
	CF	CONSTRUCTION FENCE
	IP	INLET PROTECTION
	OP	OUTLET PROTECTION
	SF	SILT FENCE
	SSA	STABILIZED STAGING AREA
	VTC	VEHICLE TRACKING CONTROL
	LOC	LIMITS OF CONSTRUCTION
	CD	CHECK DAM
	SM	SEEDING AND MULCHING
	SB	SEDIMENT BASIN
	SR	SURFACE ROUGHENING
	ECB	EROSION CONTROL BLANKET
	CIP	CULVERT INLET PROTECTION
	RS	ROCK SOCK
	STORM INLET TYPE R	
	STORM END SECTION	
	STORM MANHOLE	
	SANITARY MANHOLE	
	FIRE HYDRANT	
	LIGHT POLE	
	WATER VALVE	
	PROPERTY LINE	
	ROAD CENTERLINE	
	RIGHT-OF-WAY LINE	
	PROPOSED DRAINAGE	
	PROPOSED MAJOR CONTOUR	
	PROPOSED MINOR CONTOUR	
	EXISTING MAJOR CONTOUR	
	EXISTING MINOR CONTOUR	
	FLOW ARROW	
	EFFECTIVE 100-YR FLOODPLAIN	
	EFFECTIVE 100-YR FLOODWAY	
	POTENTIAL WALL	
	STORM SEWER	
	WATERMAIN	
	SANITARY SEWER	
	SANITARY SERVICE	
	ARV	AIR RELEASE VALVE
	CP	CATHODIC PROTECTION
	STA	STATION
	MUE	MULTI USE EASEMENT
	APRX	APPROXIMATE
	PR	PROPOSED
	FT	FEET
	DIA	DIAMETER
	LF	LINEAL FEET
	EL	ELEVATION



VICINITY MAP
SCALE: 1" = 5000'

Engineering Review
04/20/2022 4:17:19 PM
dsdrice
JeffRice@elpasoco.com
(719) 520-7877
EPC Planning & Community
Development Department

Comments remain cursory



5619 DTC PARKWAY, SUITE 1150 | GREENWOOD VILLAGE, COLORADO 80111
Phone: 720.602.4999 | Toll Free: 800.728.7805 | HRGreen.com

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.

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:

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.

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 THE NORTHEAST QUARTER 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;

Comments remain cursory due to the need for the design report, additional grading, complete details and how this ties in to the ultimate subdivision design.

ENGINEER CONTACT(S):

HR GREEN DEVELOPMENT, LLC
GREG PANZA, P.E.
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GREENWOOD VILLAGE, CO 80111
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gpanza@hrgreen.com

DRAWN BY: CMM JOB DATE: 3/3/2022
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CAD DATE: 3/8/2022
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GRANDVIEW RESERVE
DR HORTON
FALCON, COLORADO

GRANDVIEW METRO DISTRICT
TITLE SHEET

SHEET NO.
TS1 01

CHANNEL DESIGN PARAMETERS

ECM 10.5.4: A minimum conveyance capacity of down to 10% of the 100 year storm event may be allowed if overbank conditions and scour velocities permit or only as otherwise approved by the City/County Engineer.

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 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.

Design Parameter	Grandview Reserve Design Value	Design Value From MHFD	El Paso County
	5 ft	5 ft	5 ft
Roughness values	EPC Table 10-2	Per Table 8-5	EPC Table 10-2
Maximum 5-year velocity, main channel (within bankfull channel width) (ft/s)	Consideration given to both MHFD and EPC	5 ft/s	EPC Table 10-3 and 10-4
Maximum 100-year velocity, main channel (within bankfull channel width) (ft/s)	Consideration given to both MHFD and EPC	7 ft/s	EPC Table 10-3 and 10-4
Froude No., 5-year, main channel (within bankfull channel width)	0.7	0.7	
Froude No., 100-year, main channel (within bankfull channel width)	0.85	0.8	0.9 (From section 10.7)
Maximum shear stress, 100-year, main channel (within bankfull channel width)	1.2 lb/sf	1.2 lb/sf	
Minimum bankfull capacity of bankfull channel (based on future development conditions)	70% of 2 year, 10.5 cfs	70% of 2-year discharge or 10% of 100-yr discharge, whichever is greater	10-yr storm, to be concrete lined or rip-rap
Minimum bankfull channel geometry ¹		Per Table 8-2	
Design Channel Type	C4		
Entrenchment Ratio	2.7-31.65 (x=5.26)		
Width to depth ratio	13.5-75.0 (x=29.28)		
Sinuosity	1.43-2.80 (x=1.92)		
Slope	0.0001-0.0184 (x=0.0045)		
D50	12-14mm (~0.5 in)		
d84	32-48mm (~1.6in)		
Meander Length ²	34-92 (x=56)		
Belt Width ²	18-55 (x=32)		
Radius of Curvature ²	7-28 (x=11)		
Minimum Floodplain Terrace	6 ft		
Maximum overbank side slope	4(H):1(V)	4(H):1(V)	4(H):1(V) when grassed, 2(H):1(V) when concrete, 2.5(H):1(V) when riprap
Maximum bankfull side slope	2.5(H):1(V)	2.5(H):1(V)	
Minimum bottom width ³	3.8 ft		At least twice depth, but not less than 8 ft for channels conveying at least 400 cfs
Freeboard	1.5 ft	18 inch min	Freeboard in ft = 1.0 + 0.025 (velocity in fps)(depth in ft)0.33, to be 12 inch minimum

STATION	2-YR STORM	5-YR STORM	100-YR STORM
37+13	23 cfs	67 cfs	413 cfs
25+92	26.45 cfs	80.03 cfs	479.80 cfs
15+57	26.45 cfs	80.03 cfs	479.80 cfs

STATION	2-YR STORM	5-YR STORM	100-YR STORM
45+30	19 cfs	59 cfs	280 cfs
22+59	20.14 cfs	68.95 cfs	390.70 cfs
6+14	22.14 cfs	85.99 cfs	597.42 cfs

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	466.95 cfs

STATION	2-YR STORM	5-YR STORM	100-YR STORM
47+49	19 cfs	59 cfs	280 cfs
36+50	31.72 cfs	60.52 cfs	395.83 cfs
5+54	33.53 cfs	63.16 cfs	553.68 cfs

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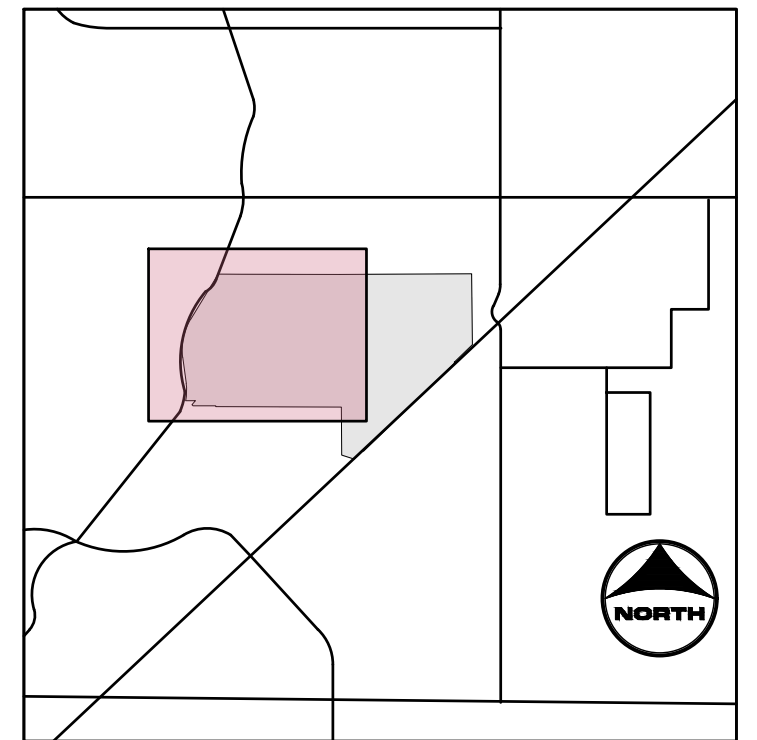
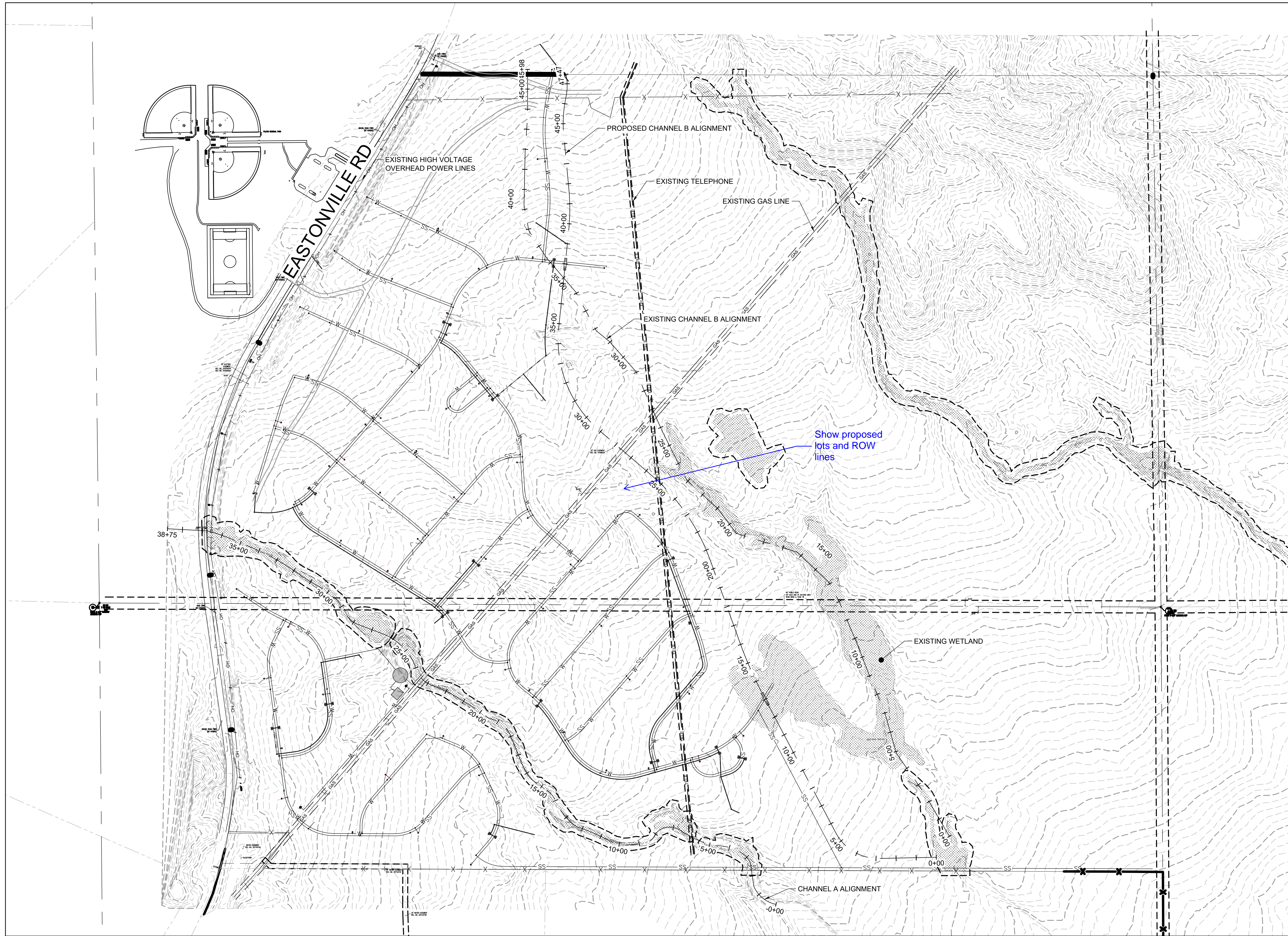
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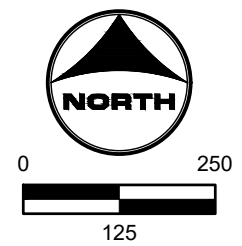
GRANDVIEW METRO DISTRICT
 GENERAL NOTES

SHEET NO.
GN1 02



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED DETENTION BASIN
 - 5250— PROPOSED MAJOR CONTOUR
 - 5250— PROPOSED MINOR CONTOUR
 - 5250— EXISTING MAJOR CONTOUR
 - 5250— EXISTING MINOR CONTOUR
 - FLOW ARROW
 - EFFECTIVE 100-YR FLOODPLAIN
 - EFFECTIVE 100-YR FLOODWAY
 - POTENTIAL WALL
 - STORM SEWER
 - STORM INLET TYPE R
 - STORM MANHOLE
 - STORM END SECTION
 - WATERMAIN
 - WATER VALVE
 - SANITARY SEWER
 - SANITARY SERVICE
 - SANITARY MANHOLE
 - LIGHT POLE
 - FIRE HYDRANT

Show proposed lots and ROW lines



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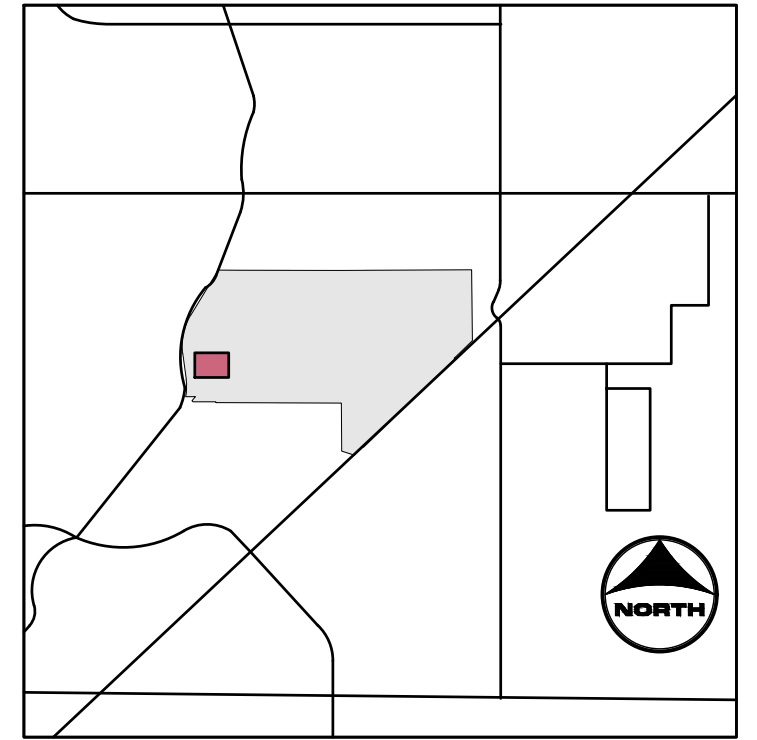
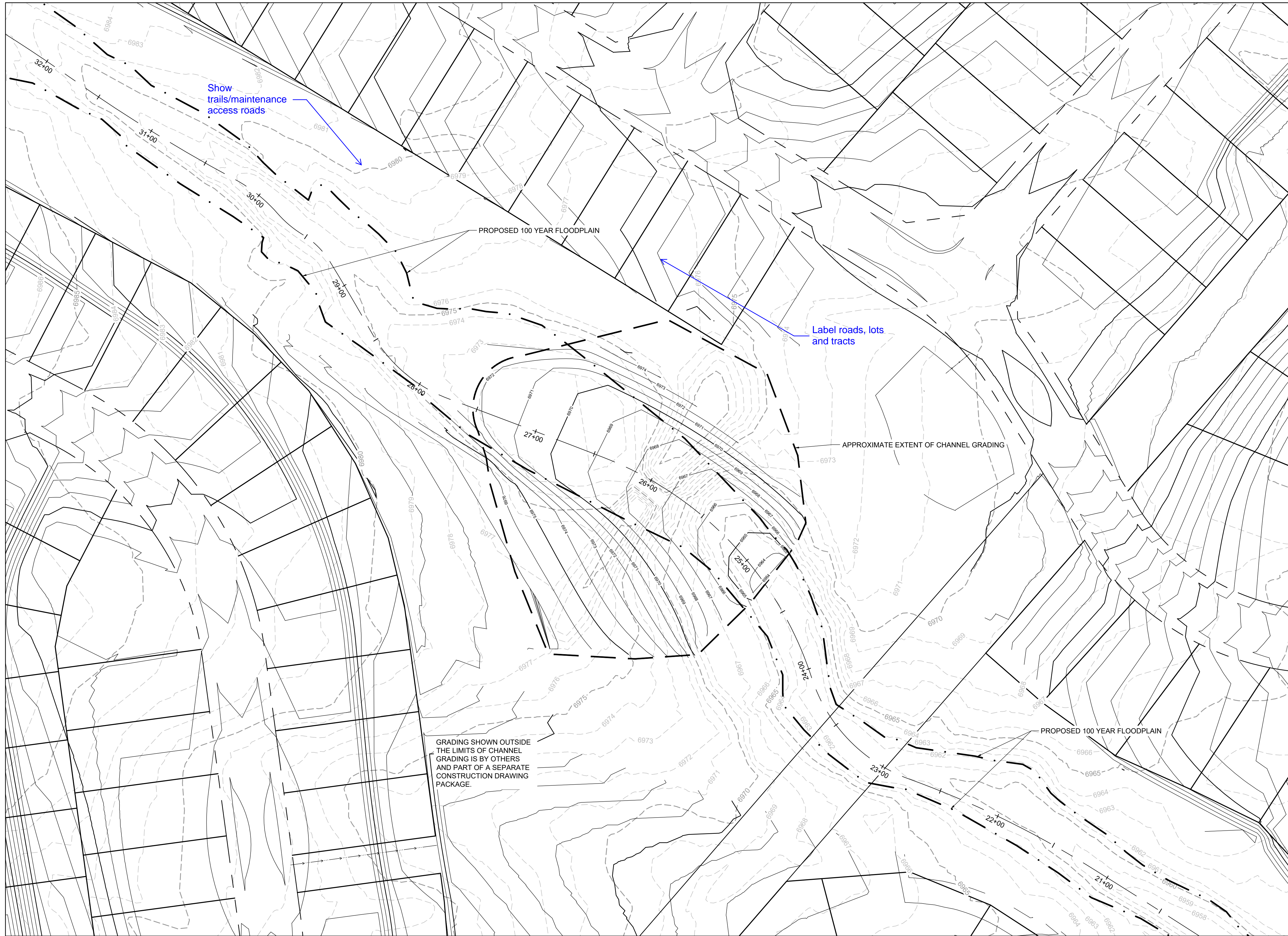


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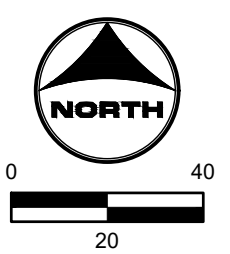
GRANDVIEW METRO DISTRICT
 OVERALL UTILITY PLAN

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UP1 03

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 - STORM INLET TYPE R
 - STORM MANHOLE
 - STORM END SECTION



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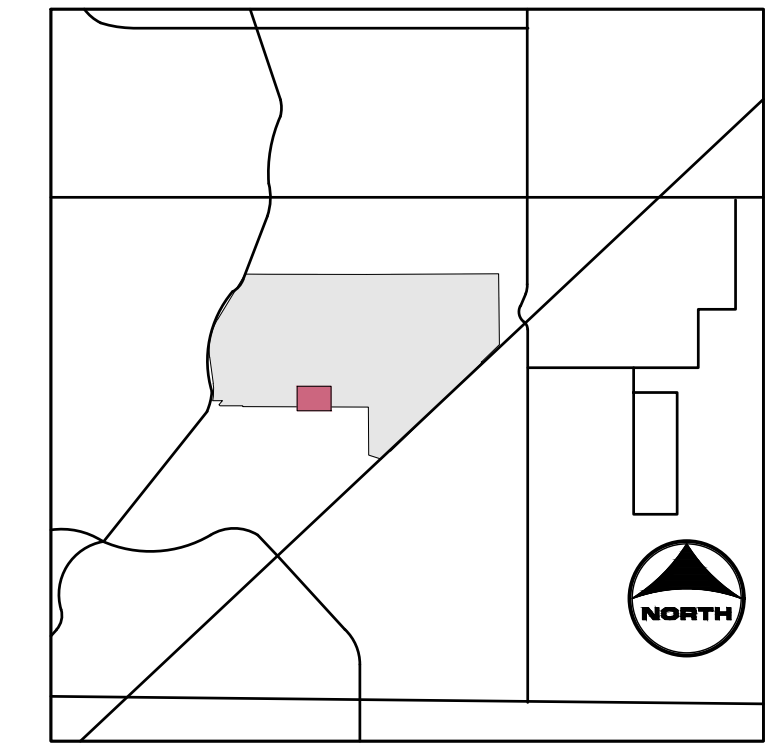
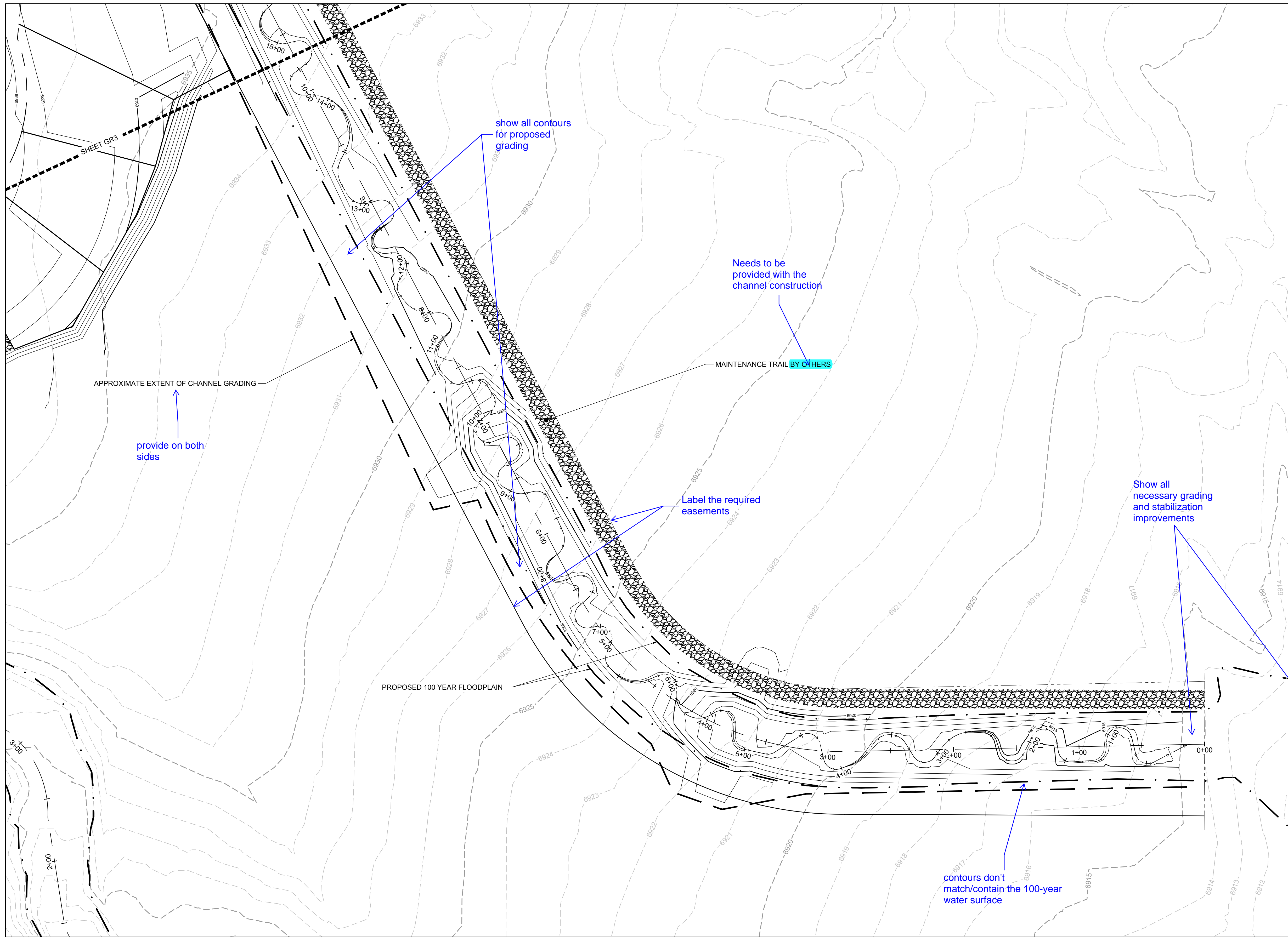
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GRANDVIEW METRO DISTRICT
CHANNEL A GRADING

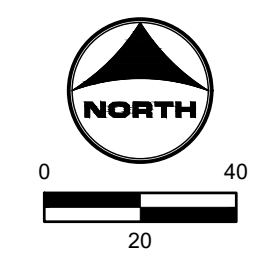
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KEYMAP

PROJECT LEGEND:

- PROPERTY LINE
- ROAD CENTERLINE
- RIGHT-OF-WAY LINE
- PROPOSED DETENTION BASIN
- 5250— PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- - -5250- - - EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- FLOW ARROW
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- ▬ STORM MANHOLE
- ▬ STORM END SECTION



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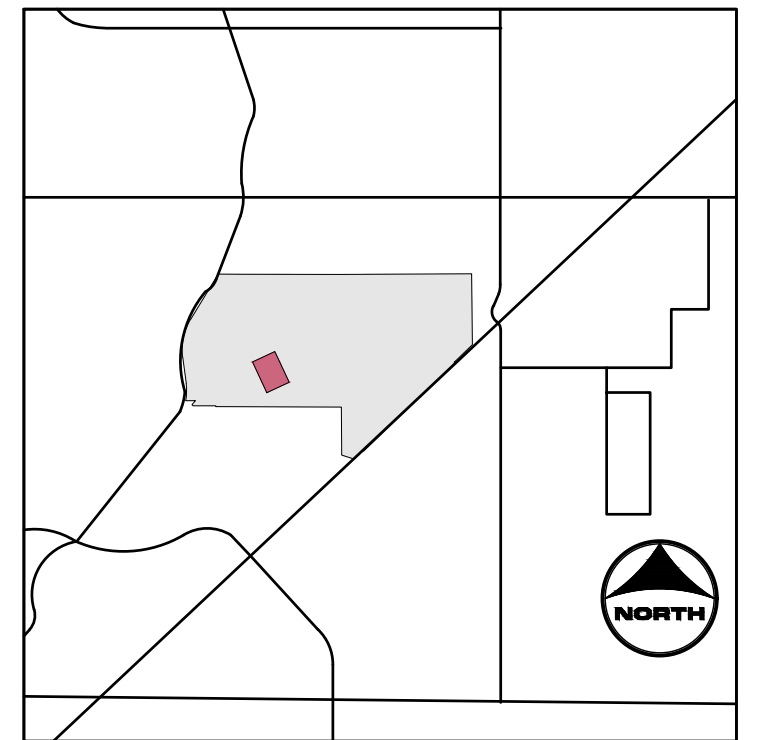
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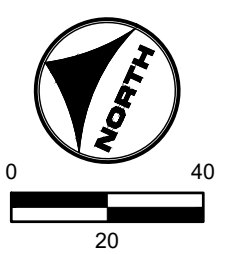
GRANDVIEW RESERVE
DR HORTON
FALCON, COLORADO

GRANDVIEW METRO DISTRICT
CHANNEL B GRADING

SHEET NO.
GR2 05



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED DETENTION BASIN
 - 5250— PROPOSED MAJOR CONTOUR
 - 5250— PROPOSED MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
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 - EFFECTIVE 100-YR FLOODWAY
 - POTENTIAL WALL
 - STORM SEWER
 - STORM INLET TYPE R
 - STORM MANHOLE
 - STORM END SECTION



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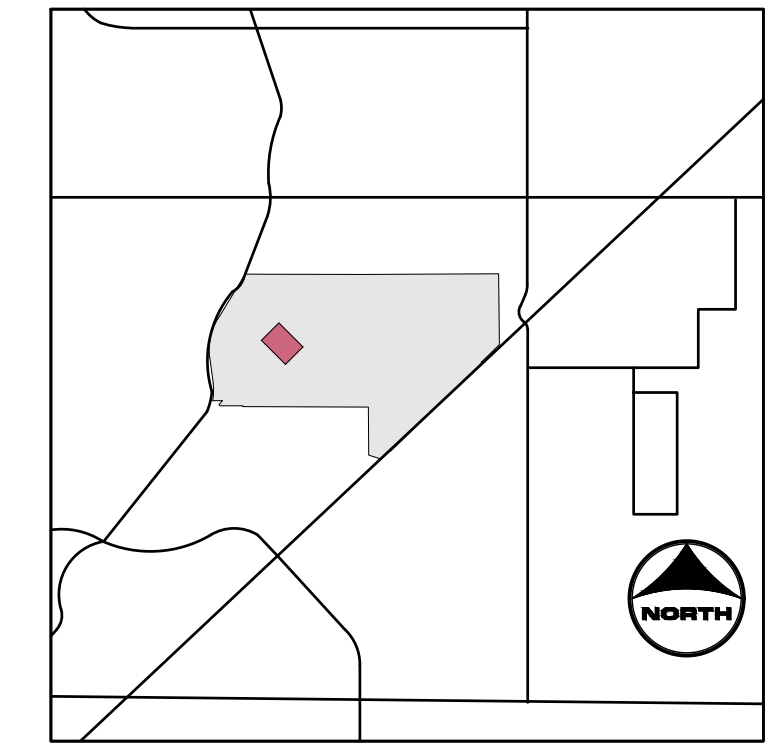
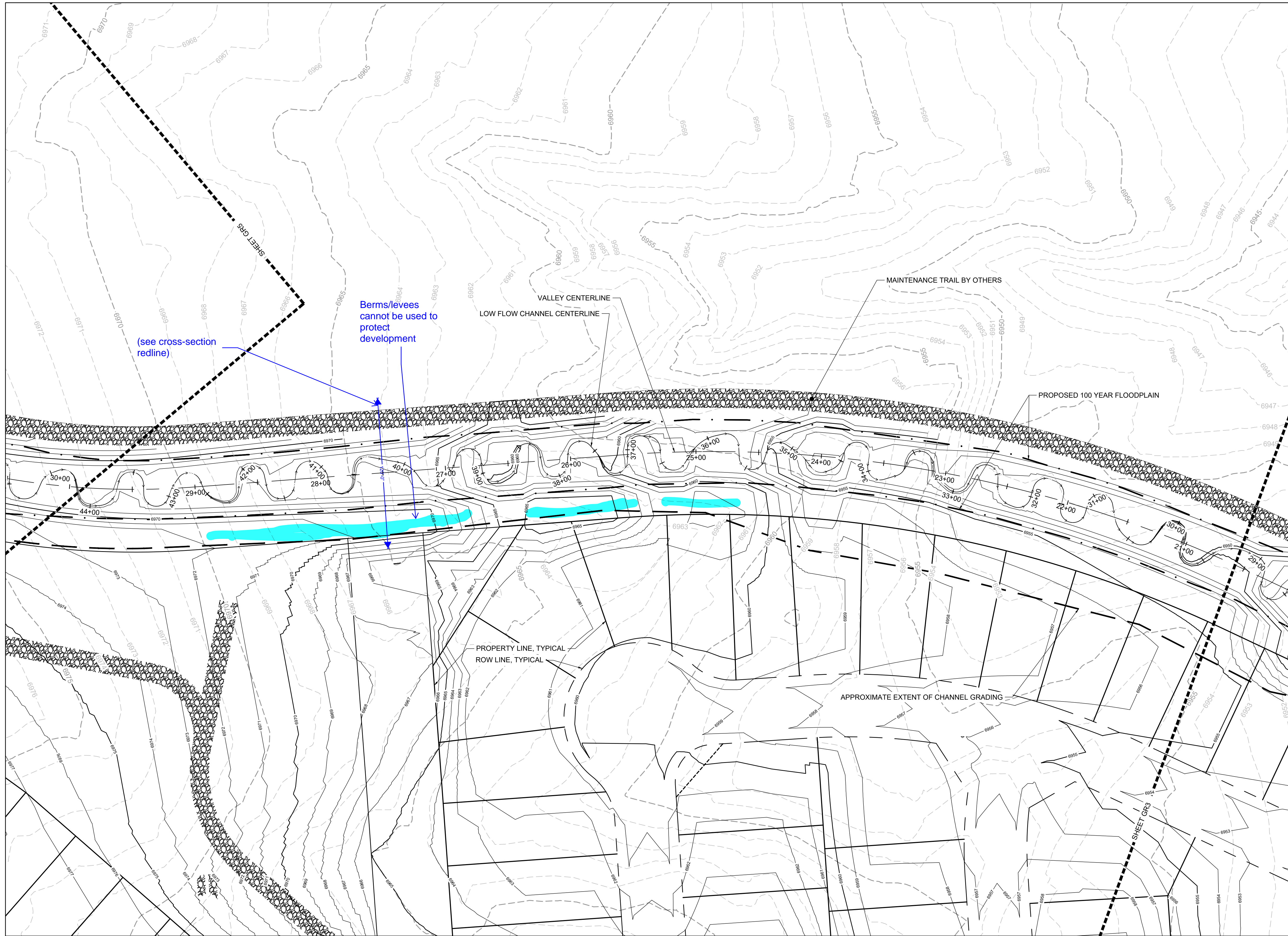
NO.	DATE	BY	REVISION DESCRIPTION



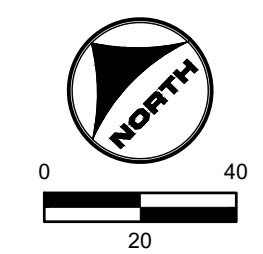
GRANDVIEW RESERVE
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GRANDVIEW METRO DISTRICT
 CHANNEL B GRADING

SHEET NO.
GR3 06



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED DETENTION BASIN
 - 5250— PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - - -5250- - - EXISTING MAJOR CONTOUR
 - - - EXISTING MINOR CONTOUR
 - FLOW ARROW
 - - - - - EFFECTIVE 100-YR FLOODPLAIN
 - - - - - EFFECTIVE 100-YR FLOODWAY
 - ▬ POTENTIAL WALL
 - STORM SEWER
 - STORM INLET TYPE R
 - STORM MANHOLE
 - STORM END SECTION



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HR GREEN Xref: xref.dwg; d:\01: GRADING KEY: HRG1_20X_PBase_01-XC-PR_100YR_FP_DELINEATION.A

DRAWN BY: TBI JOB DATE: 3/4/2022
 APPROVED: CMM JOB NUMBER: 201662.03
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 CAD FILE: J:\2020\201662.03\CAD\DWG\C\GRADING

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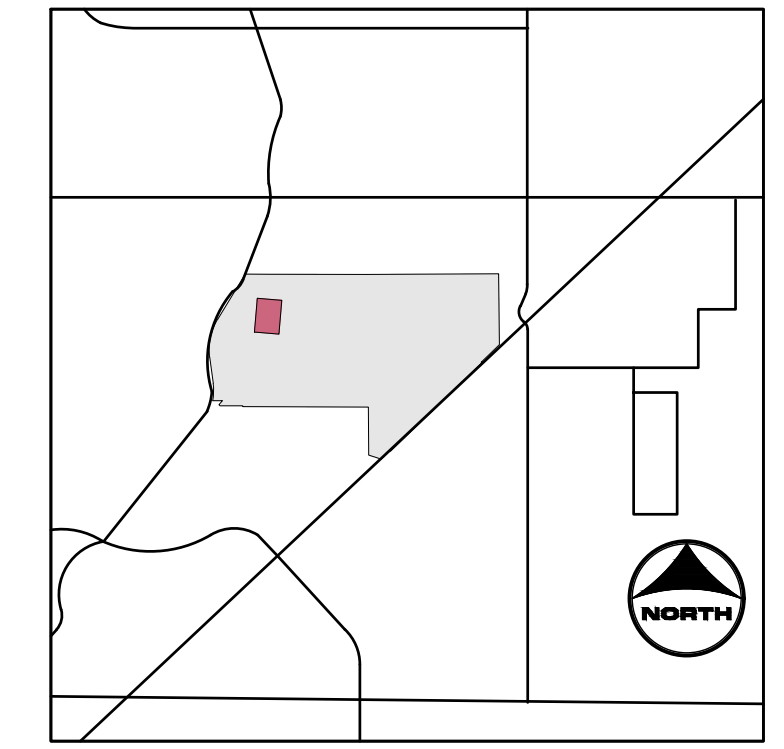
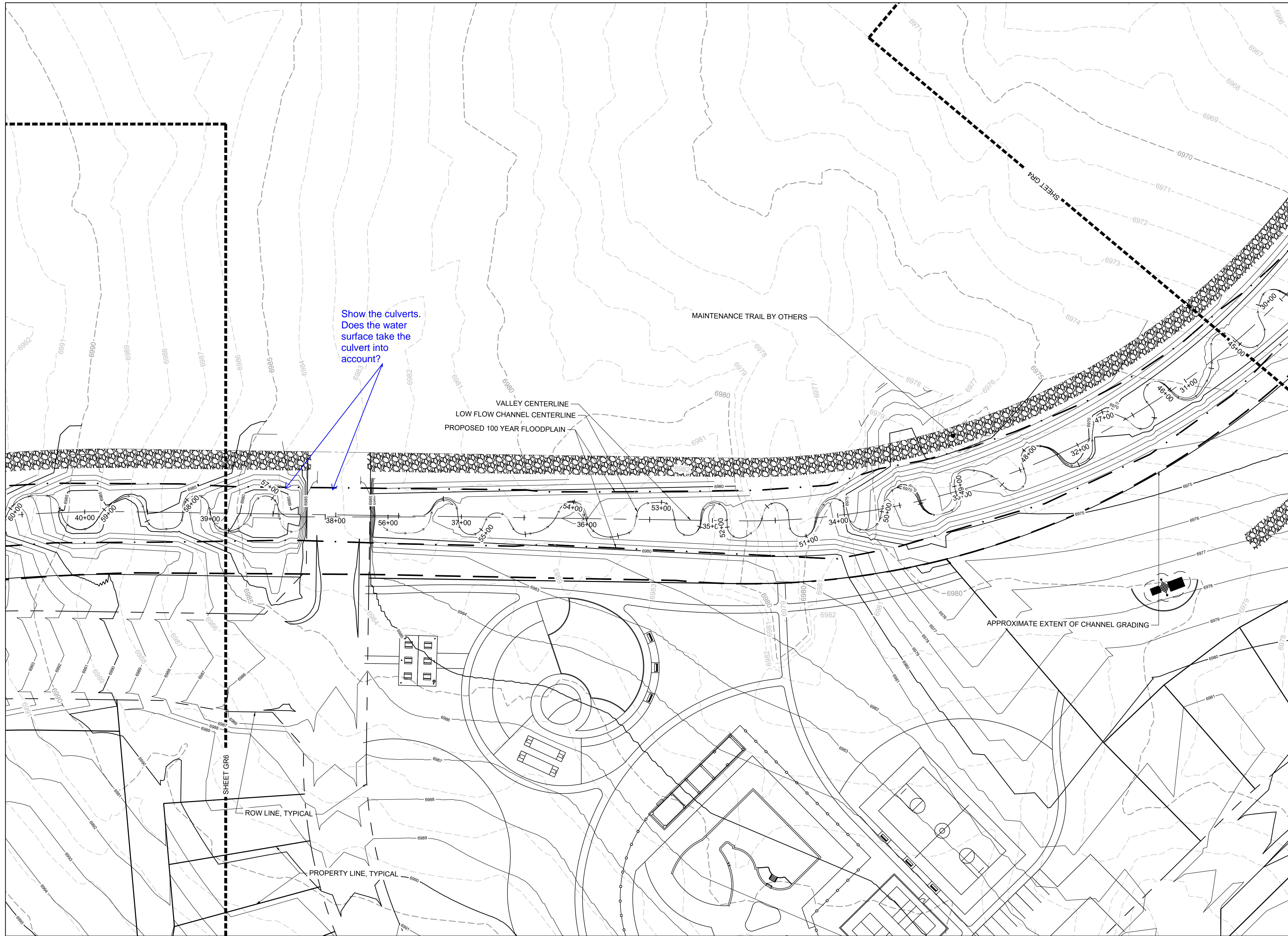
NO.	DATE	BY	REVISION DESCRIPTION



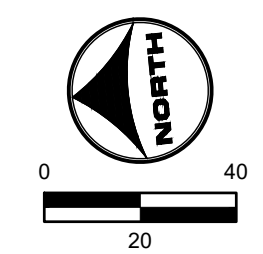
GRANDVIEW RESERVE
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GRANDVIEW METRO DISTRICT
 CHANNEL B GRADING

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GR4 07



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED DETENTION BASIN
 - 5250— PROPOSED MAJOR CONTOUR
 - 5250— PROPOSED MINOR CONTOUR
 - 5250— EXISTING MAJOR CONTOUR
 - 5250— EXISTING MINOR CONTOUR
 - FLOW ARROW
 - EFFECTIVE 100-YR FLOODPLAIN
 - EFFECTIVE 100-YR FLOODWAY
 - POTENTIAL WALL
 - STORM SEWER
 - STORM INLET TYPE R
 - STORM MANHOLE
 - STORM END SECTION



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HR GREEN Xref: xref: xref: d:\01: GRADING KEY: HRG1_20X_PBase_01-XC-PR_100YR_FP_DELINEATION.A

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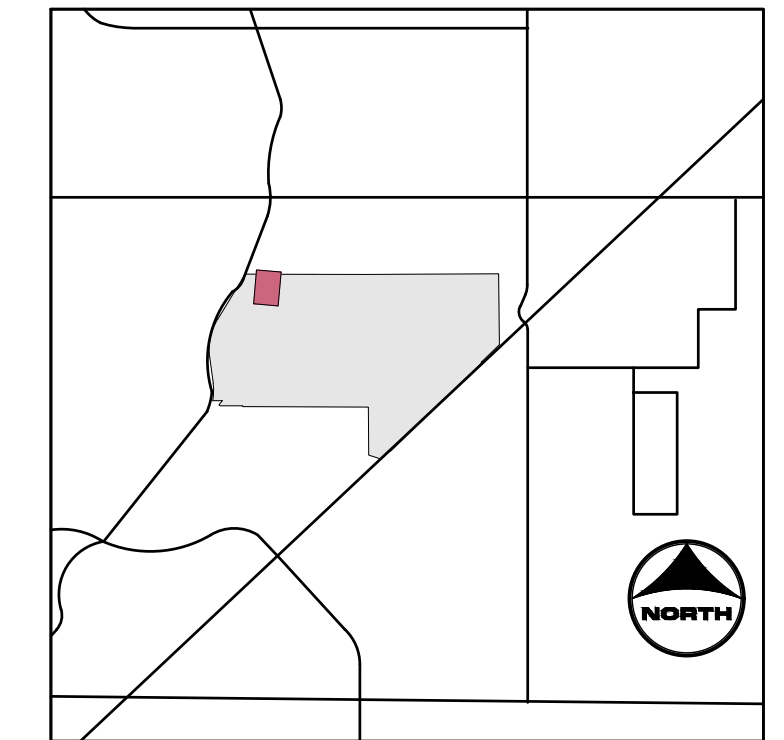
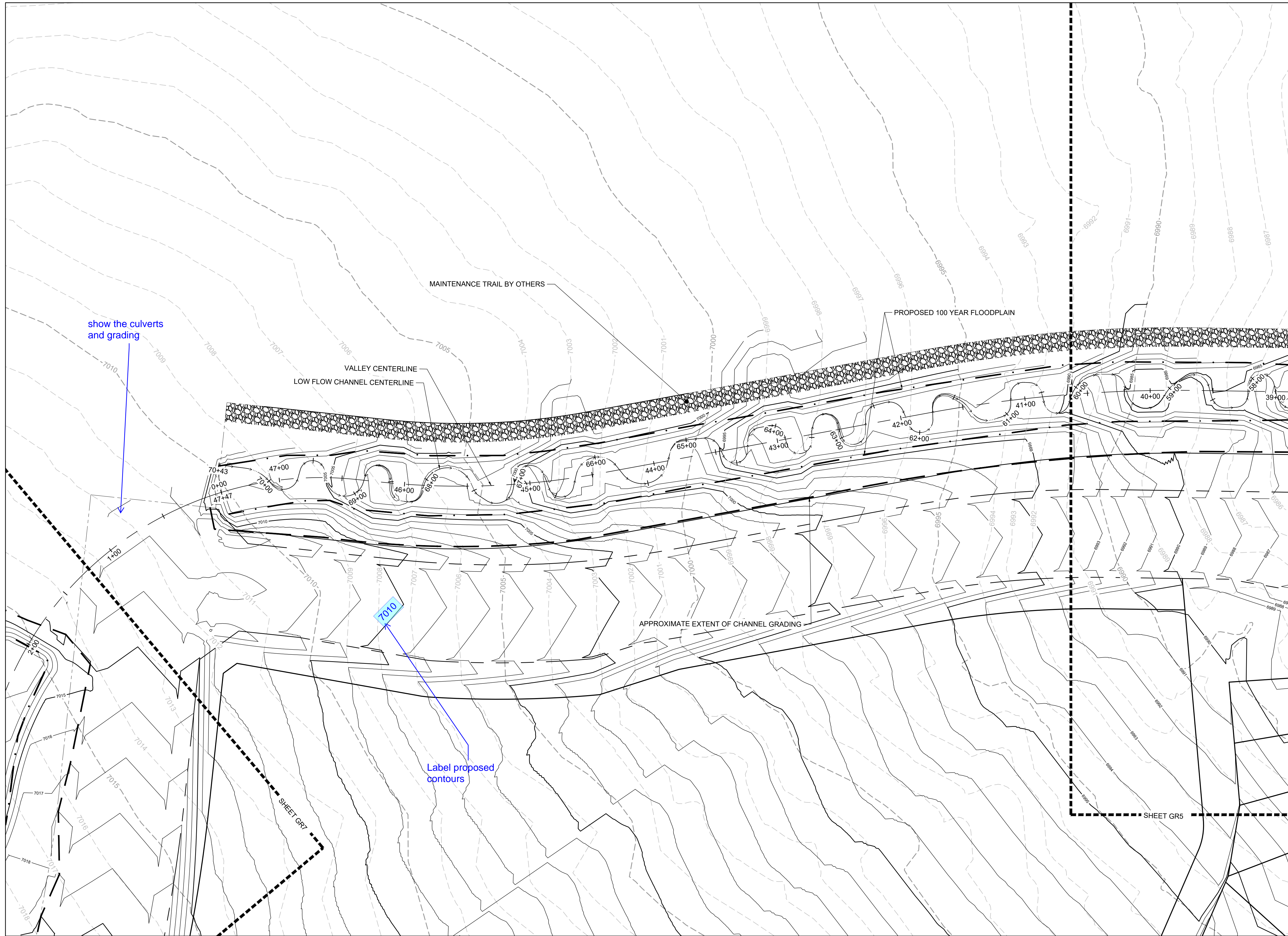
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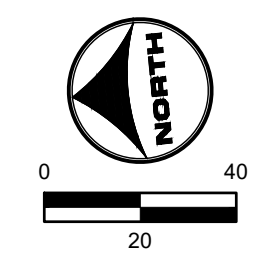
GRANDVIEW METRO DISTRICT
 CHANNEL B GRADING

SHEET NO.
GR5 08



KEYMAP

- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED DETENTION BASIN
 - 5250— PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - - -5250- - - EXISTING MAJOR CONTOUR
 - - - EXISTING MINOR CONTOUR
 - FLOW ARROW
 - EFFECTIVE 100-YR FLOODPLAIN
 - - - EFFECTIVE 100-YR FLOODWAY
 - POTENTIAL WALL
 - STORM SEWER
 - STORM INLET TYPE R
 - STORM MANHOLE
 - STORM END SECTION



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HR GREEN Xref: xref: xref: d:\01: GRADING KEY: HRG1_20X_PBase: 01:XC-PR_100YR_FP_DELINEATION: 01:XC-PR_100YR_FP_DELINEATION.A

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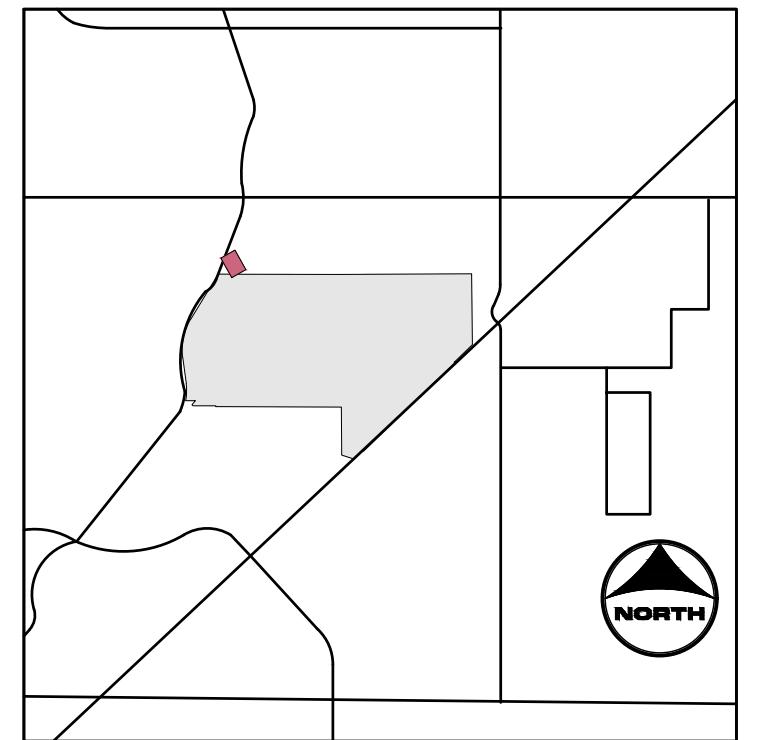
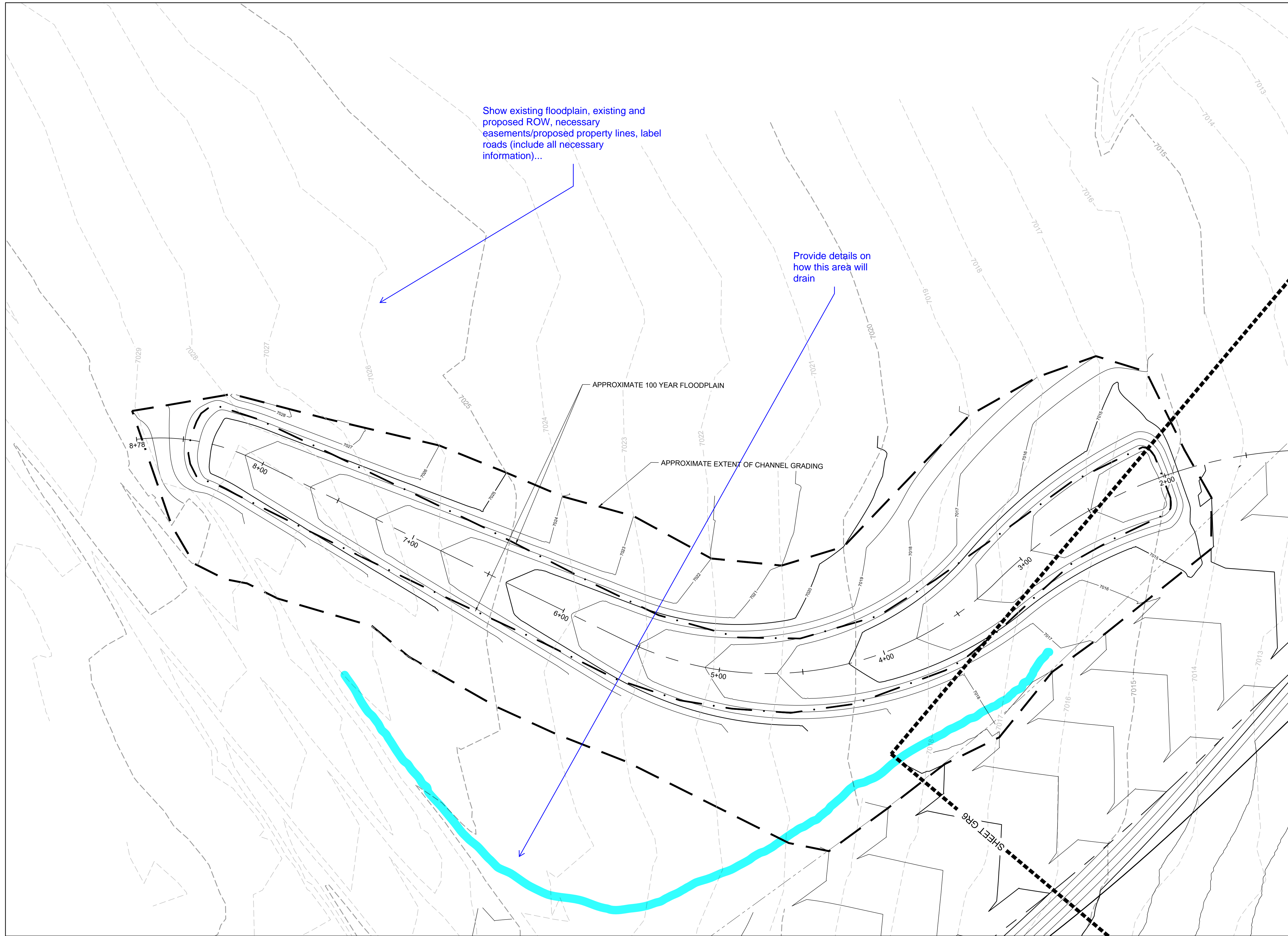


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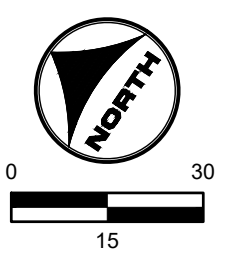
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SHEET NO.
GR6 09

HR GREEN Xrefs: xgs; -d; 01; GRADING KEY: HR01_20X_PBase; 01-XC-PR_100YR_FP_DELINEATION; 01-XC-PR_100YR_FP_DELINEATION.LA



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - - - ROAD CENTERLINE
 - - - RIGHT-OF-WAY LINE
 - - - PROPOSED DETENTION BASIN
 - 5250— PROPOSED MAJOR CONTOUR
 - 5250— PROPOSED MINOR CONTOUR
 - - - EXISTING MAJOR CONTOUR
 - - - EXISTING MINOR CONTOUR
 - FLOW ARROW
 - - - EFFECTIVE 100-YR FLOODPLAIN
 - - - EFFECTIVE 100-YR FLOODWAY
 - POTENTIAL WALL
 - STORM SEWER
 - STORM INLET TYPE R
 - STORM MANHOLE
 - STORM END SECTION



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 CAD DATE: 3/8/2022
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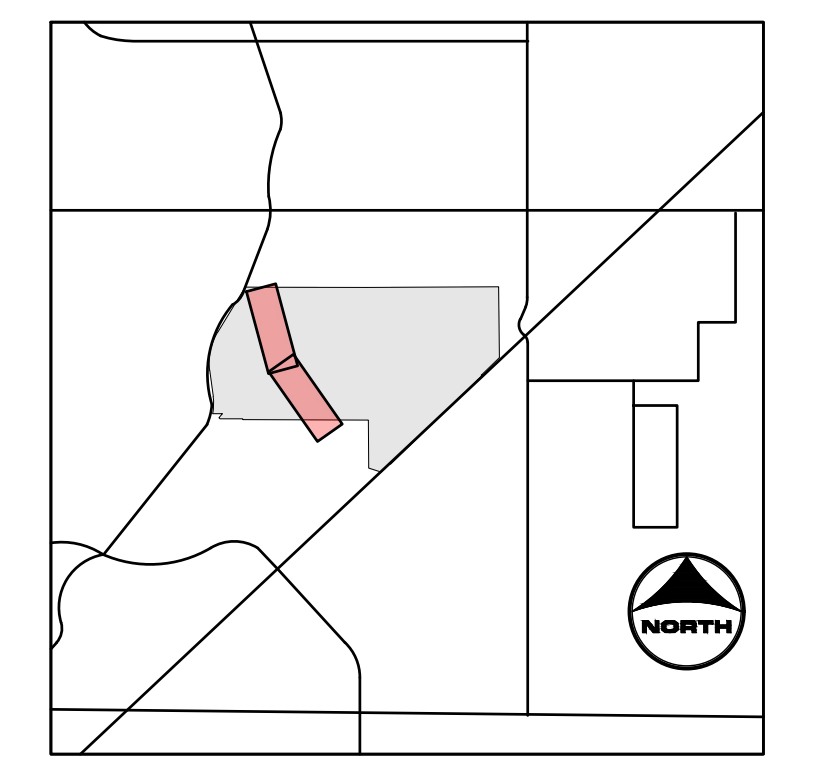
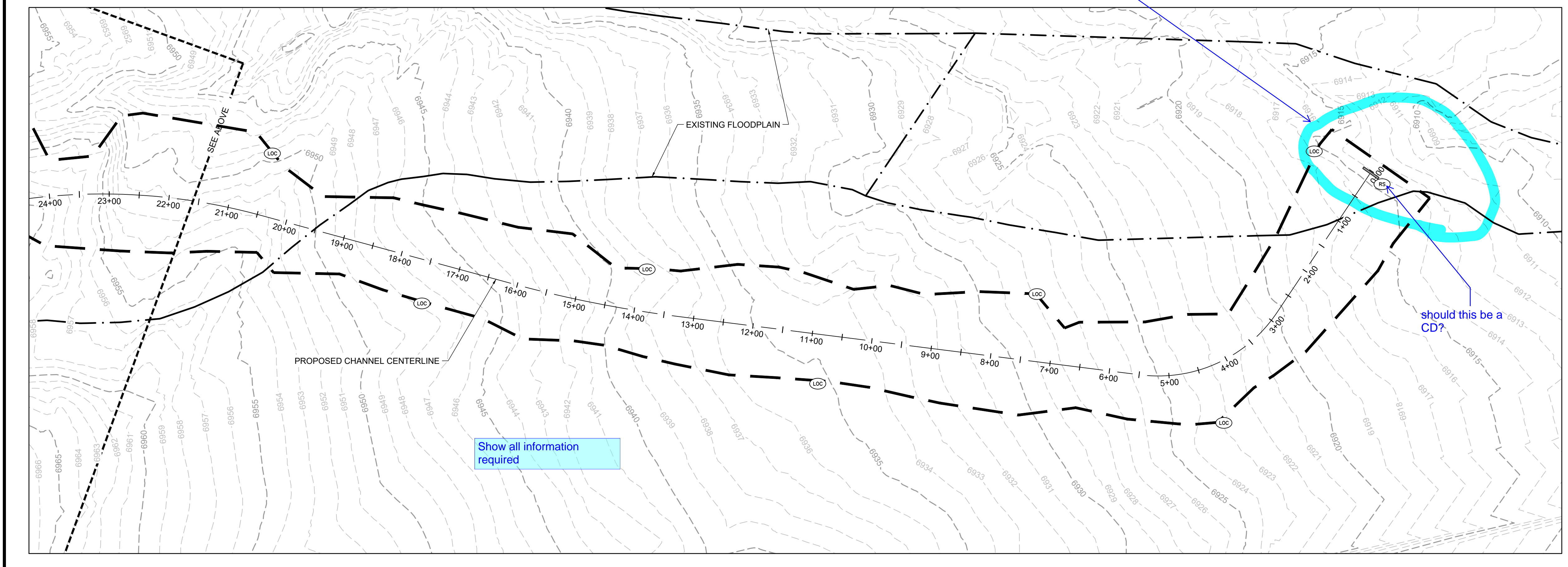
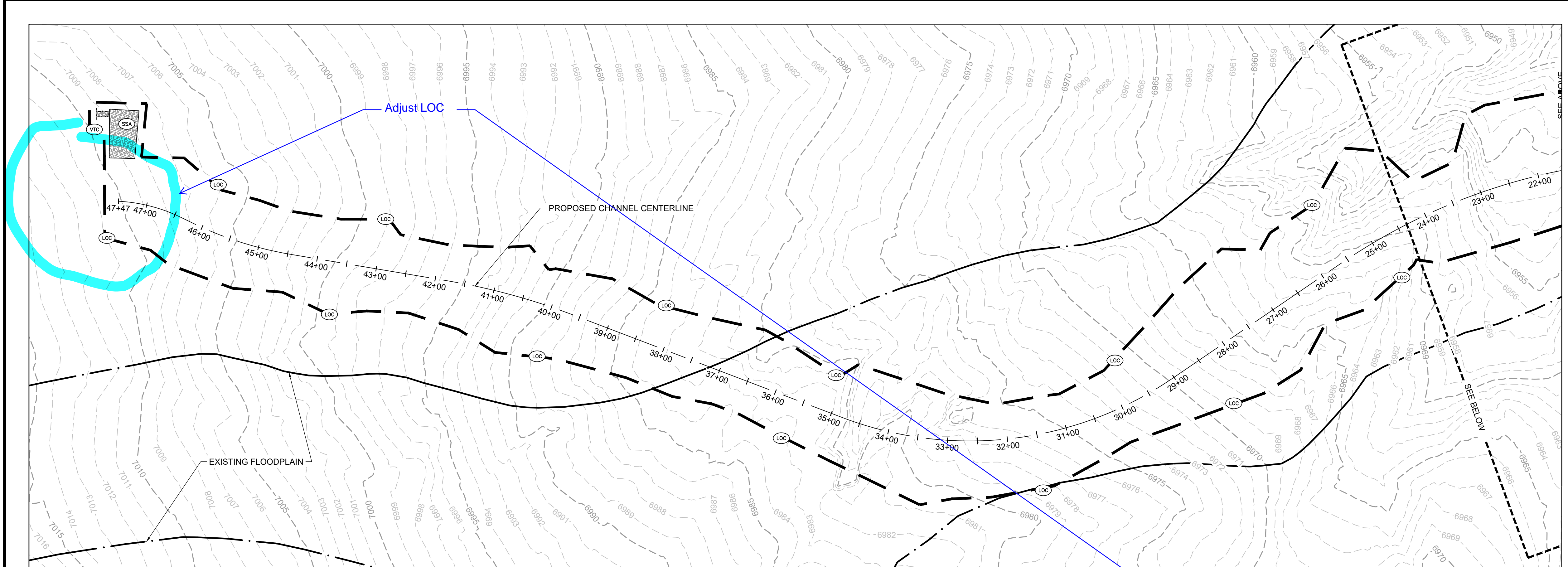
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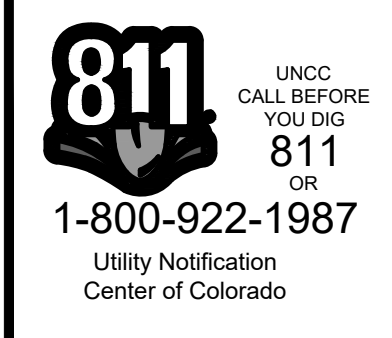
GRANDVIEW METRO DISTRICT
 CHANNEL B GRADING

SHEET NO.
GR7 10



- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED DETENTION BASIN
 - 5250— PROPOSED MAJOR CONTOUR
 - 5250— PROPOSED MINOR CONTOUR
 - 5250— EXISTING MAJOR CONTOUR
 - 5250— EXISTING MINOR CONTOUR
 - FLOW ARROW
 - - - - - EFFECTIVE 100-YR FLOODPLAIN
 - - - - - EFFECTIVE 100-YR FLOODWAY

- BMP LEGEND:**
- CWA CONCRETE WASHOUT AREA
 - CF CONSTRUCTION FENCE
 - DD DIVERSION DITCH
 - IP INLET PROTECTION
 - OP OUTLET PROTECTION
 - SF SILT FENCE
 - SSA STABILIZED STAGING AREA
 - VTC VEHICLE TRACKING CONTROL
 - LOC LIMITS OF CONSTRUCTION
 - CD CHECK DAM
 - SM SEEDING AND MULCHING
 - SB SEDIMENT BASIN
 - SR SURFACE ROUGHENING
 - ECB EROSION CONTROL BLANKET
 - CIP CULVERT INLET PROTECTION
 - RS ROCK SOCK



HR GREEN Xref: xref: -d:\01 - INITIAL EROSION CONTROL KEY: S.FLD_HAZ_LIN_01X-INITIAL.EC

DRAWN BY: TBI	JOB DATE: 3/4/2022	BAR IS ONE INCH ON OFFICIAL DRAWINGS: 1"
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CAD DATE: 3/8/2022		
CAD FILE: J:\2020\201662.03\CAD\dwgs\CI\INITIAL EROSION CONTROL		

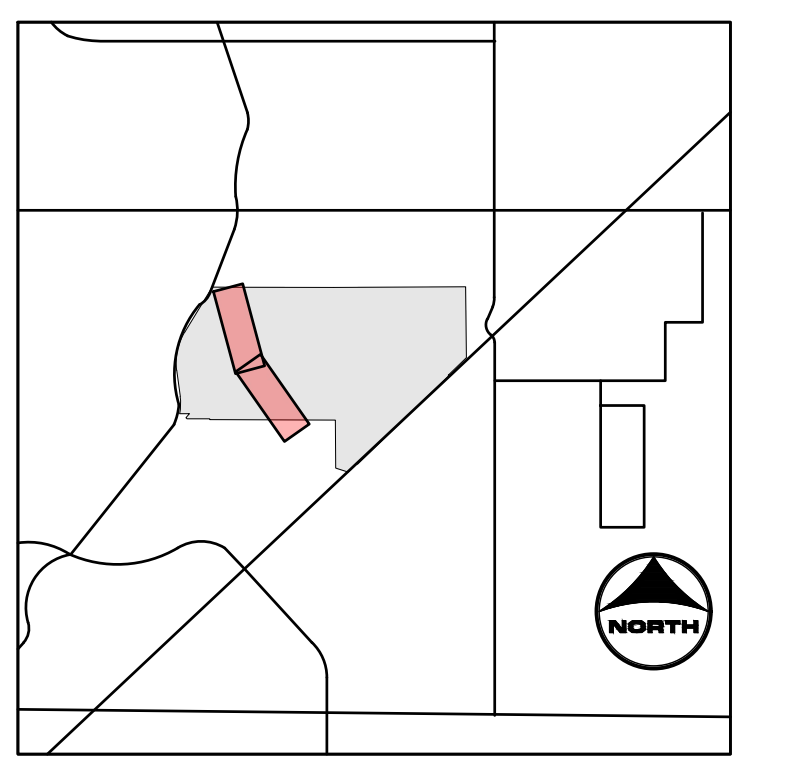
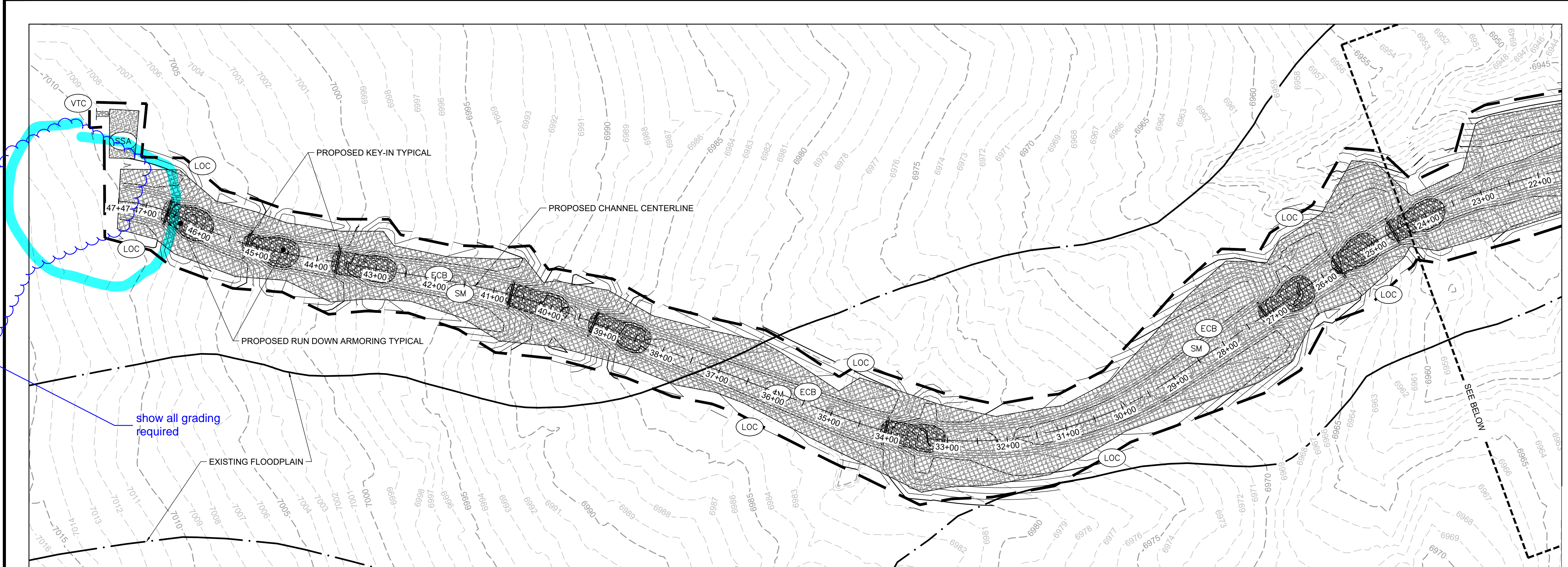
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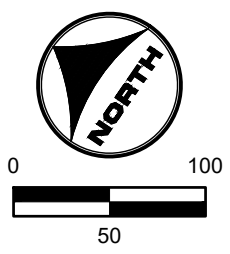
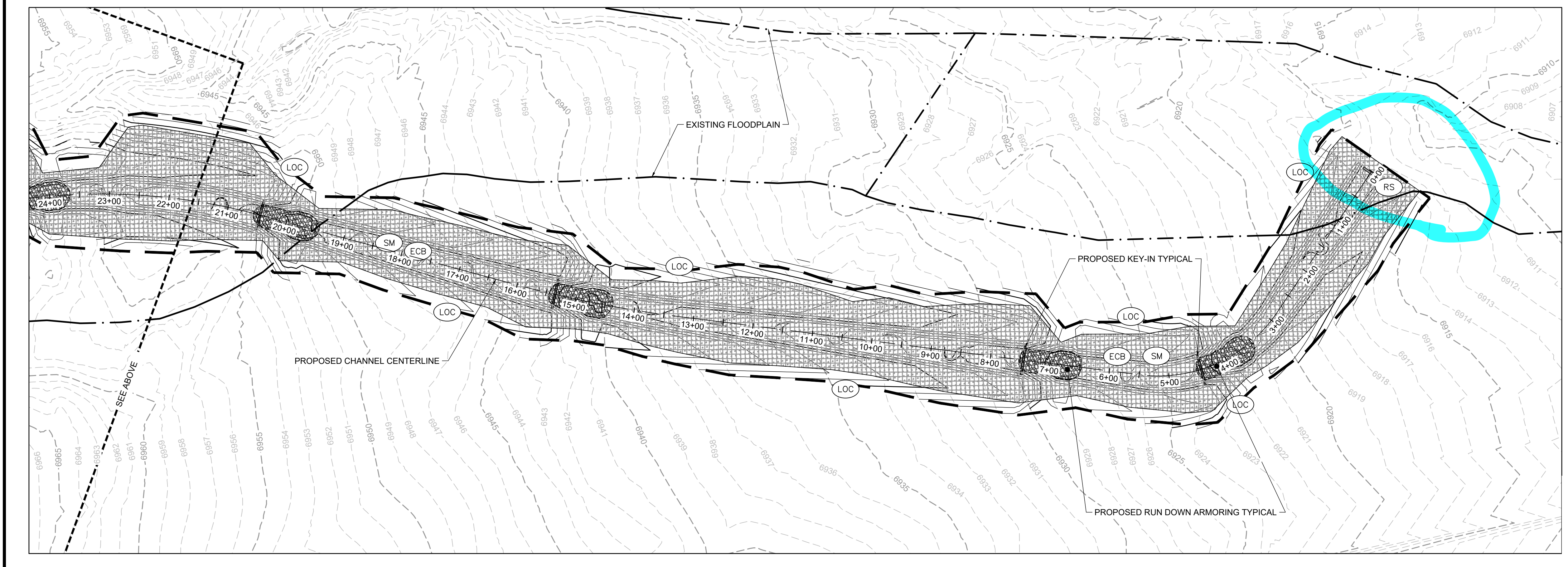
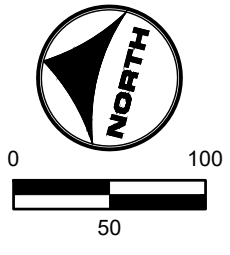
GRANDVIEW METRO DISTRICT
 INITIAL EROSION CONTROL

SHEET NO.
EC1 11



- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED DETENTION BASIN
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - - - EXISTING MAJOR CONTOUR
 - - - EXISTING MINOR CONTOUR
 - FLOW ARROW
 - - - EFFECTIVE 100-YR FLOODPLAIN
 - - - EFFECTIVE 100-YR FLOODWAY

- BMP LEGEND:**
- [Symbol] CWA CONCRETE WASHOUT AREA
 - [Symbol] CF CONSTRUCTION FENCE
 - [Symbol] DD DIVERSION DITCH
 - [Symbol] IP INLET PROTECTION
 - [Symbol] OP OUTLET PROTECTION
 - [Symbol] SF SILT FENCE
 - [Symbol] SSA STABILIZED STAGING AREA
 - [Symbol] VTC VEHICLE TRACKING CONTROL
 - [Symbol] LOC LIMITS OF CONSTRUCTION
 - [Symbol] CD CHECK DAM
 - [Symbol] SM SEEDING AND MULCHING
 - [Symbol] SB SEDIMENT BASIN
 - [Symbol] SR SURFACE ROUGHENING
 - [Symbol] ECB EROSION CONTROL BLANKET
 - [Symbol] CIP CULVERT INLET PROTECTION
 - [Symbol] RS ROCK SOCK



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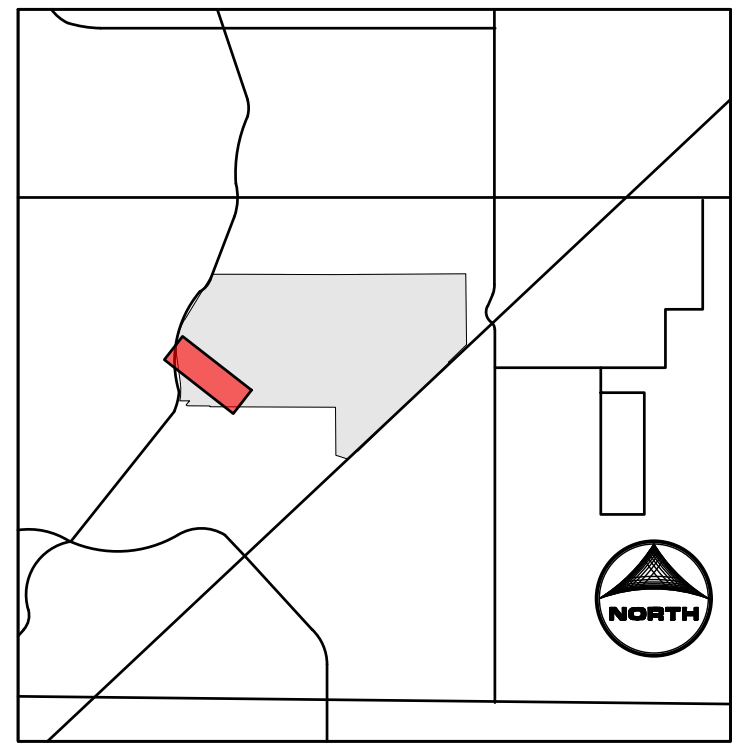
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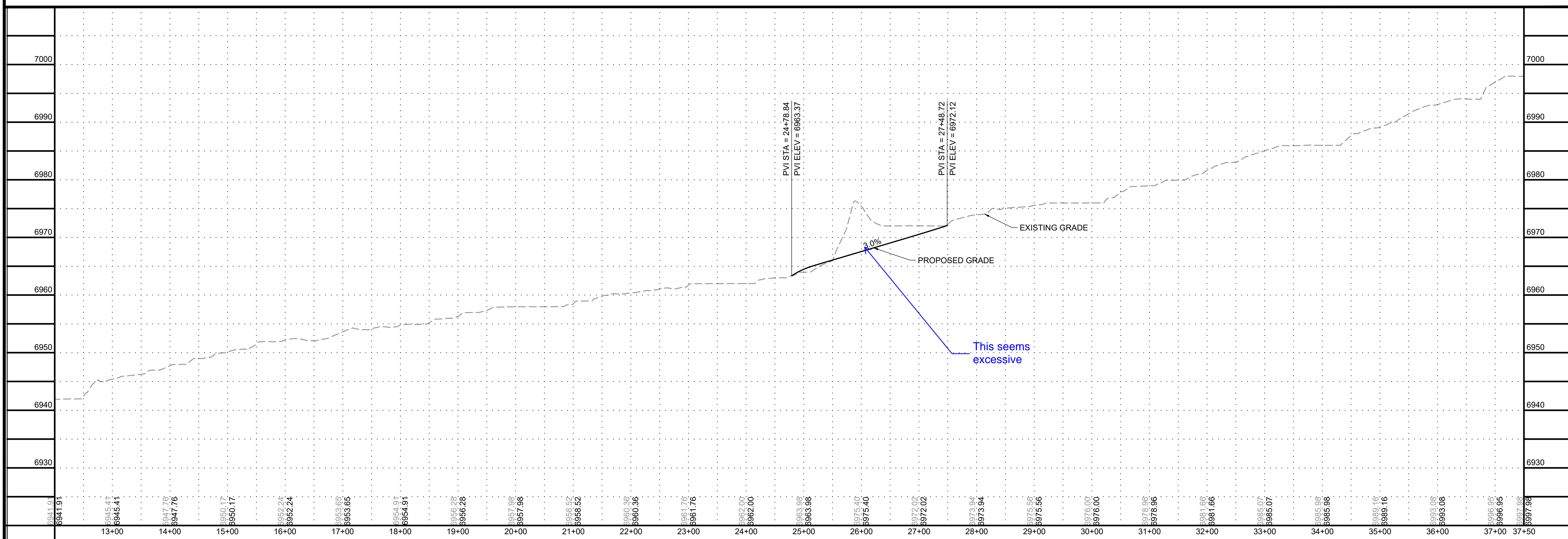
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FINAL EROSION CONTROL

SHEET NO.
EC2 12



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED D
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - 5250 EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - FLOW ARROW
 - - - - EFFECTIVE 100-YR FLOODPLAIN
 - - - - EFFECTIVE 100-YR FLOODWAY
 - ▬ POTENTIAL WALL
 - STORM SEWER
 - STORM INLET TYPE R
 - STORM MANHOLE
 - STORM END SECTION



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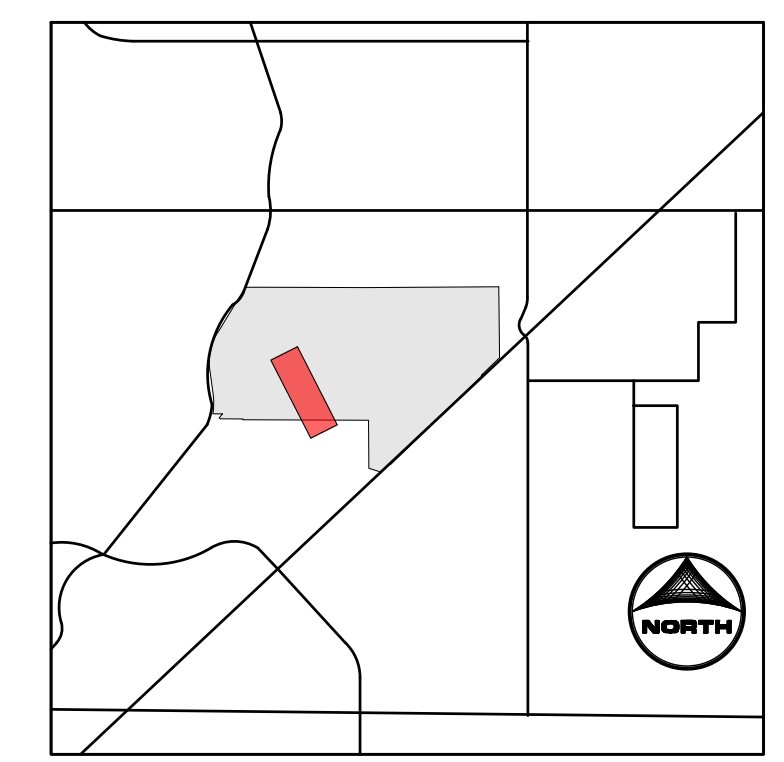
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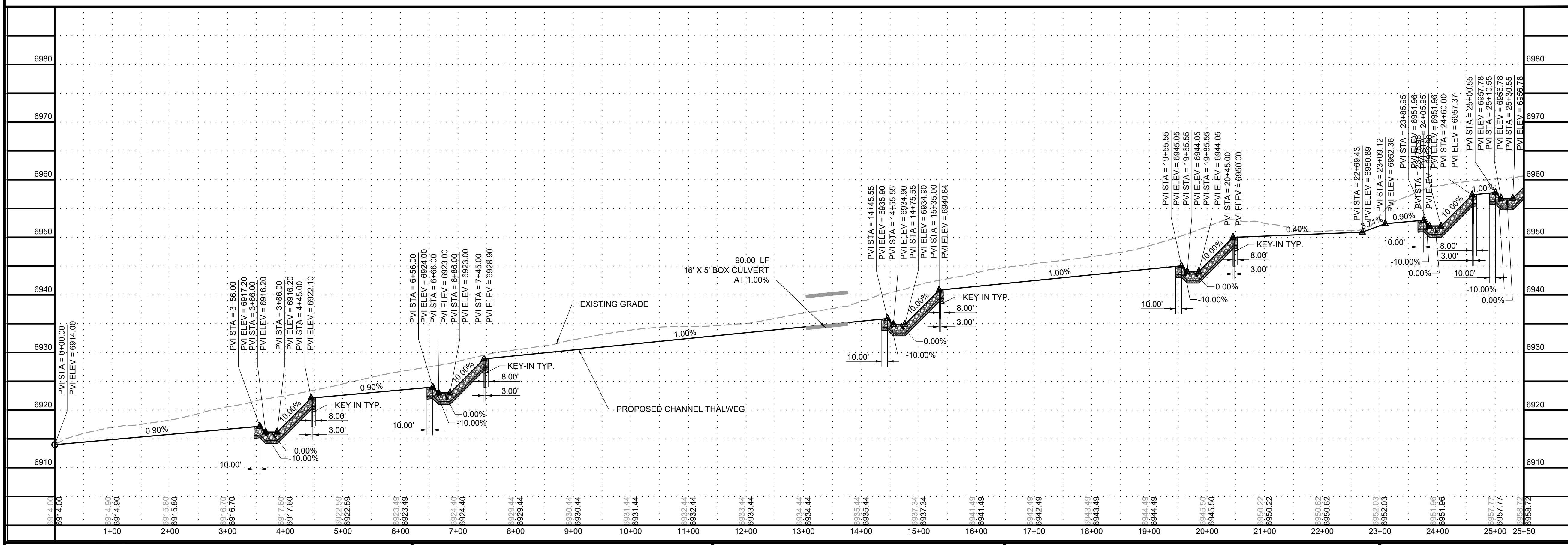
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SHEET NO.
PP1 13

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- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED D
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - FLOW ARROW
 - EFFECTIVE 100-YR FLOODPLAIN
 - EFFECTIVE 100-YR FLOODWAY
 - POTENTIAL WALL
 - STORM SEWER
 - STORM INLET TYPE R
 - STORM MANHOLE
 - STORM END SECTION



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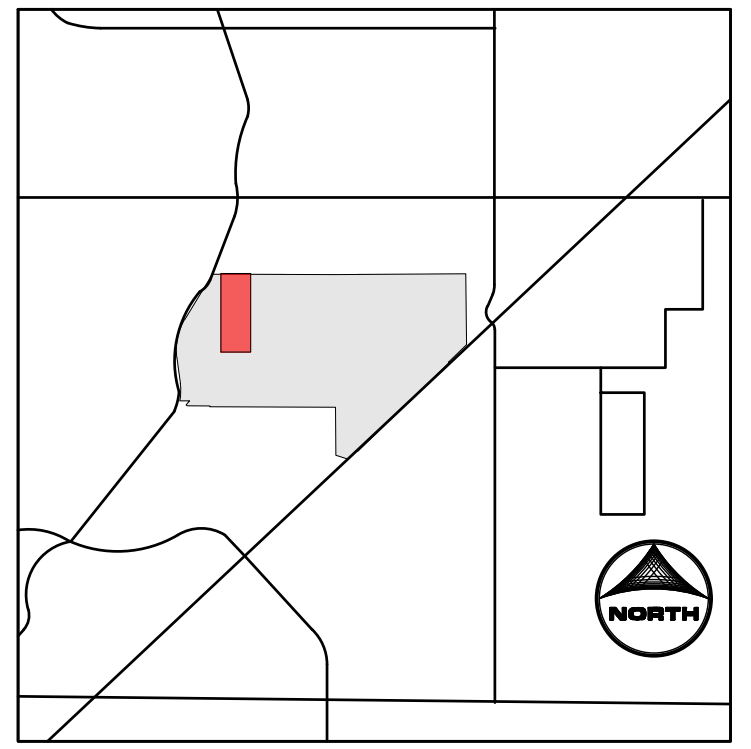
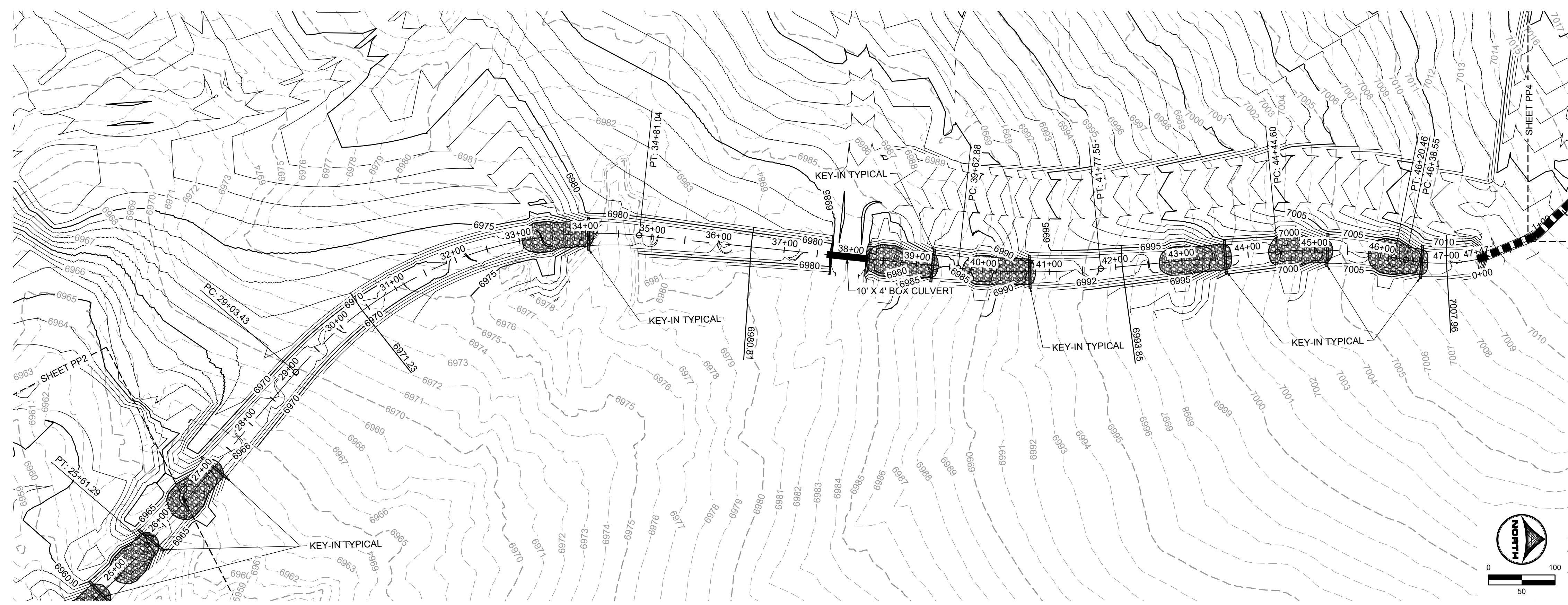
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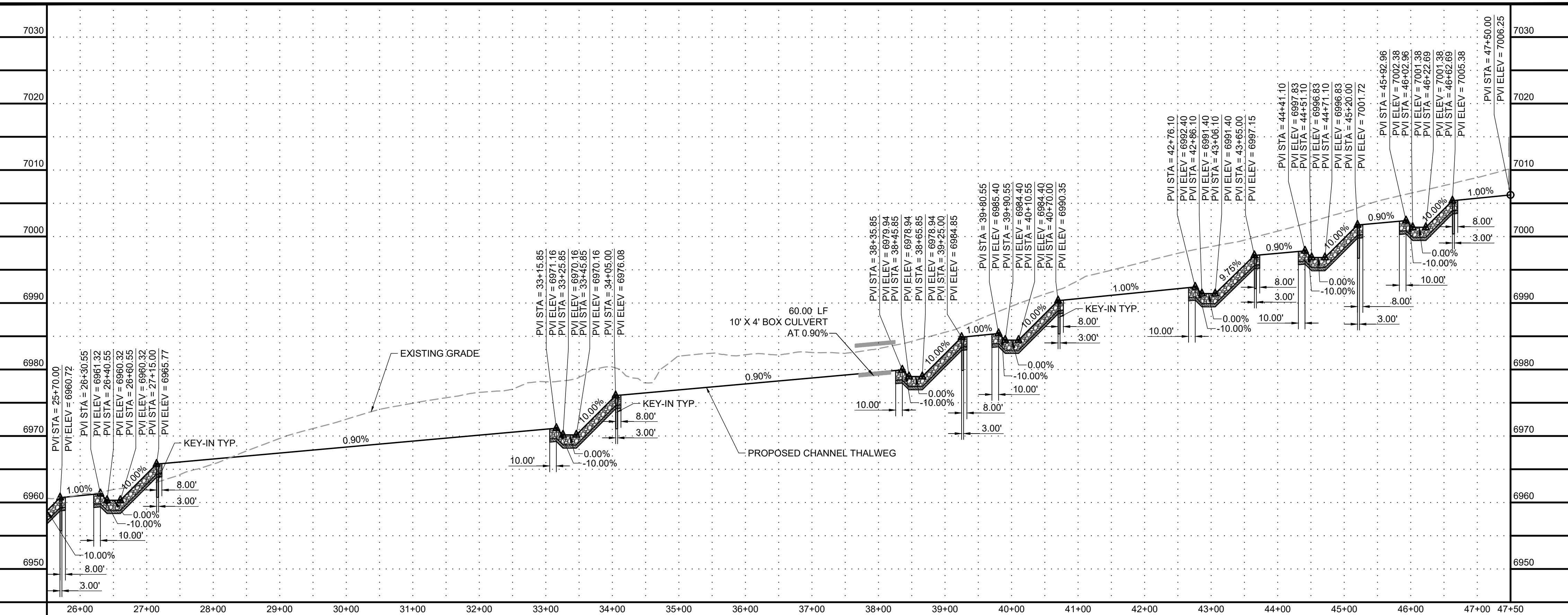
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DRAINAGE B PLAN AND PROFILE

SHEET NO.
PP2 14



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED D
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - - - 5250 - - - EXISTING MAJOR CONTOUR
 - - - EXISTING MINOR CONTOUR
 - FLOW ARROW
 - - - - - EFFECTIVE 100-YR FLOODPLAIN
 - - - - - EFFECTIVE 100-YR FLOODWAY
 - POTENTIAL WALL
 - STORM SEWER
 - STORM INLET TYPE R
 - STORM MANHOLE
 - STORM END SECTION



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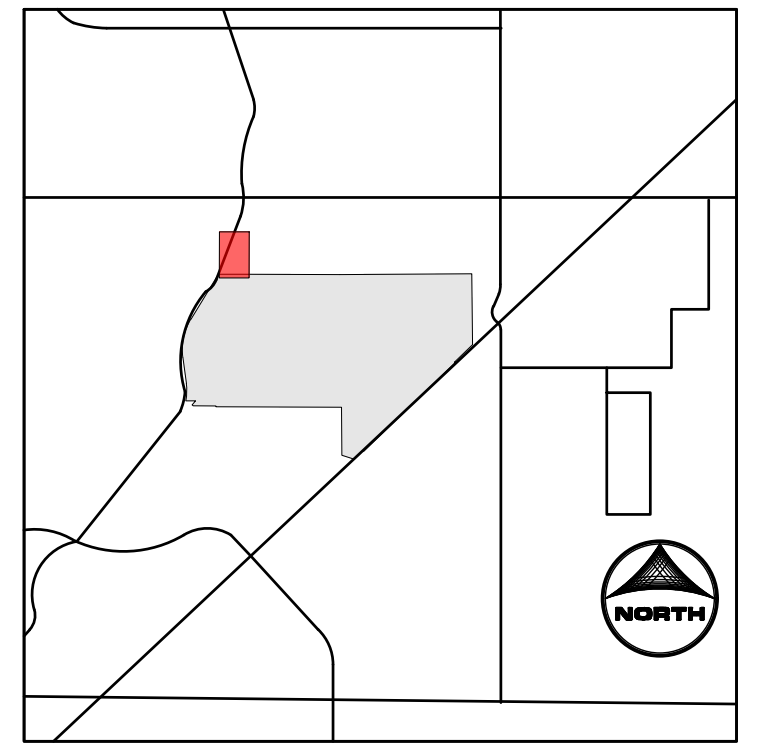
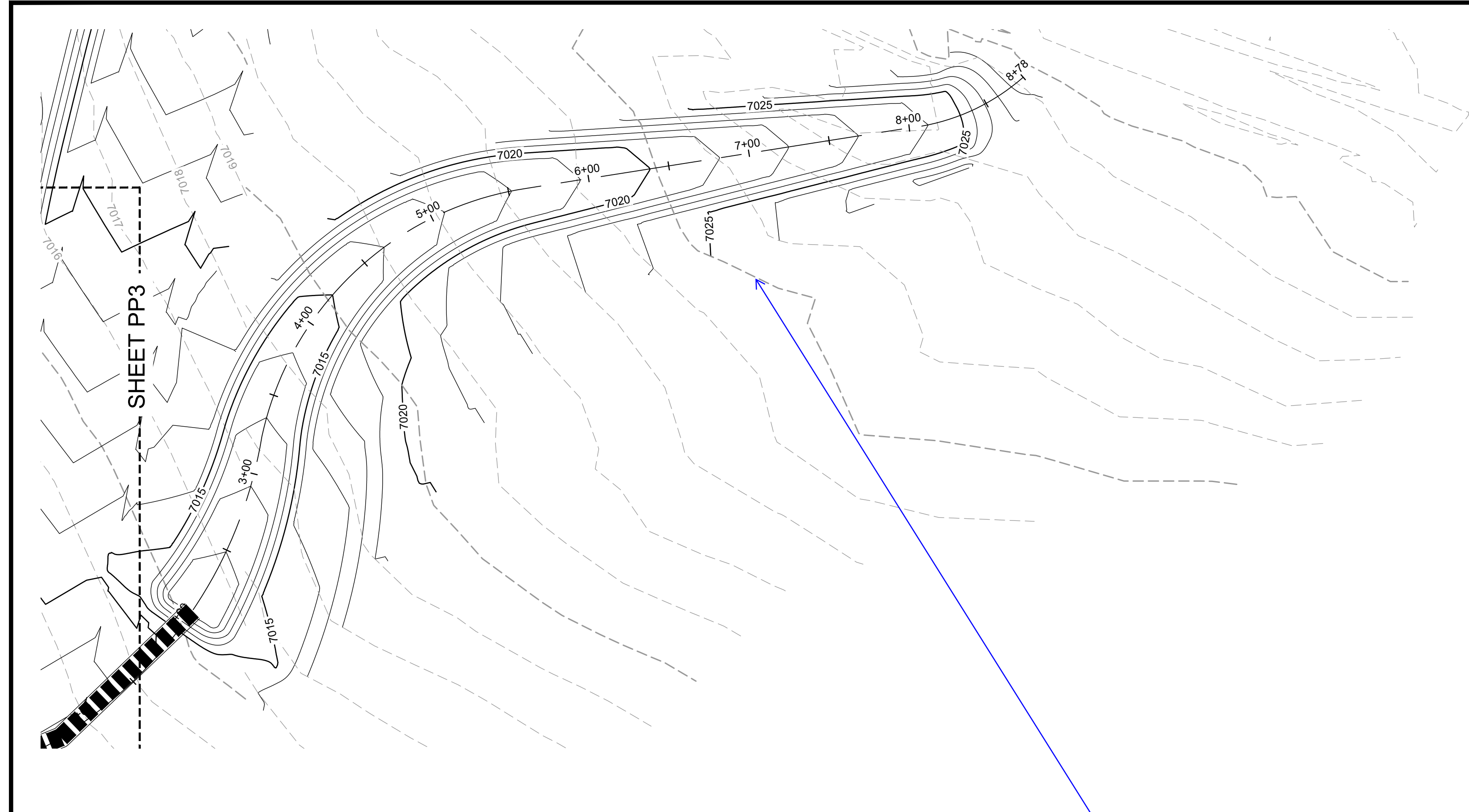
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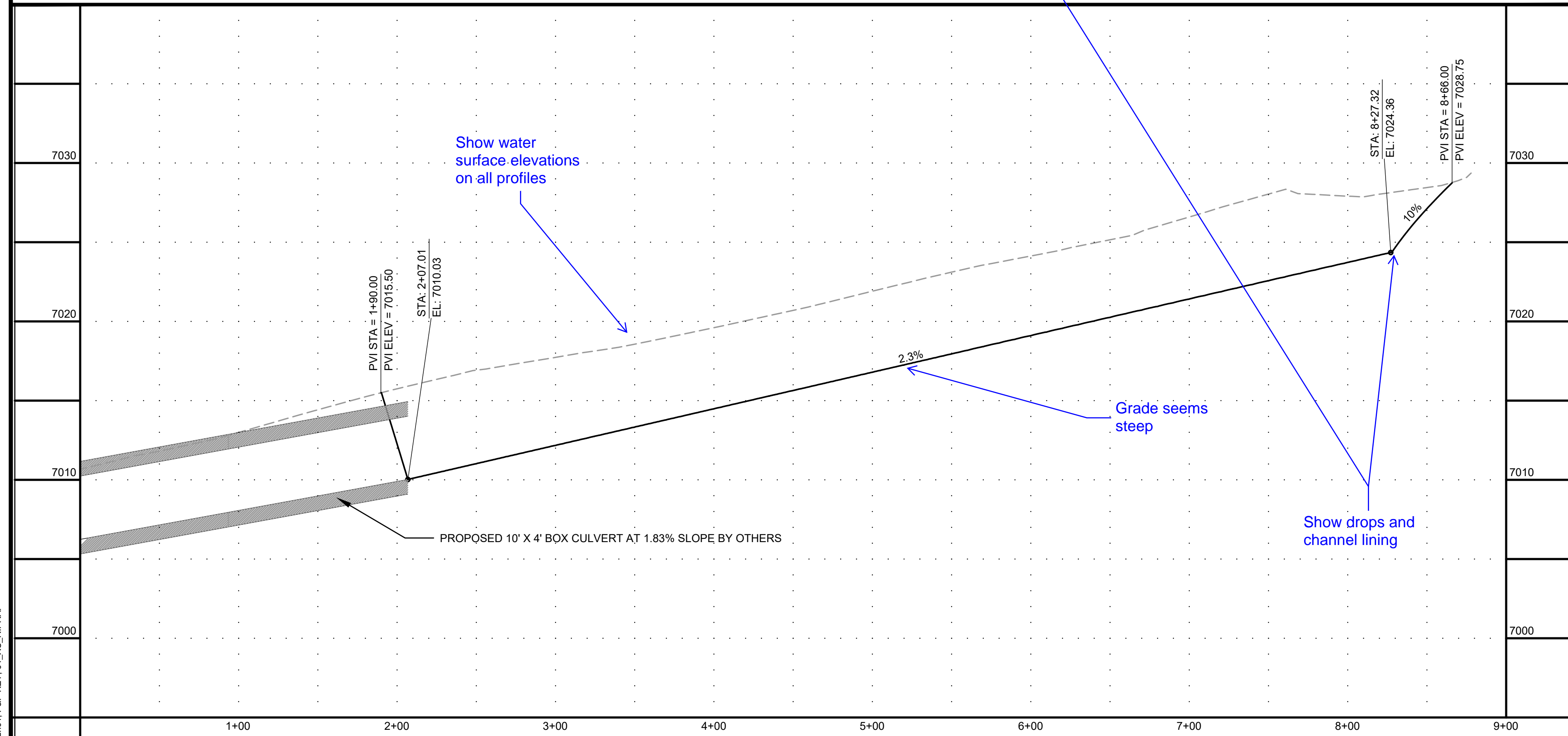
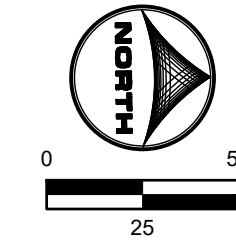
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 DRAINAGE B PLAN AND PROFILE

SHEET NO.
PP3 15



- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED D
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - FLOW ARROW
 - EFFECTIVE 100-YR FLOODPLAIN
 - EFFECTIVE 100-YR FLOODWAY
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 - STORM MANHOLE
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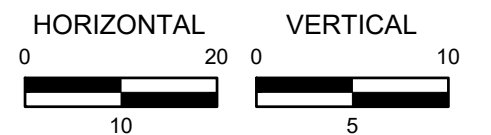
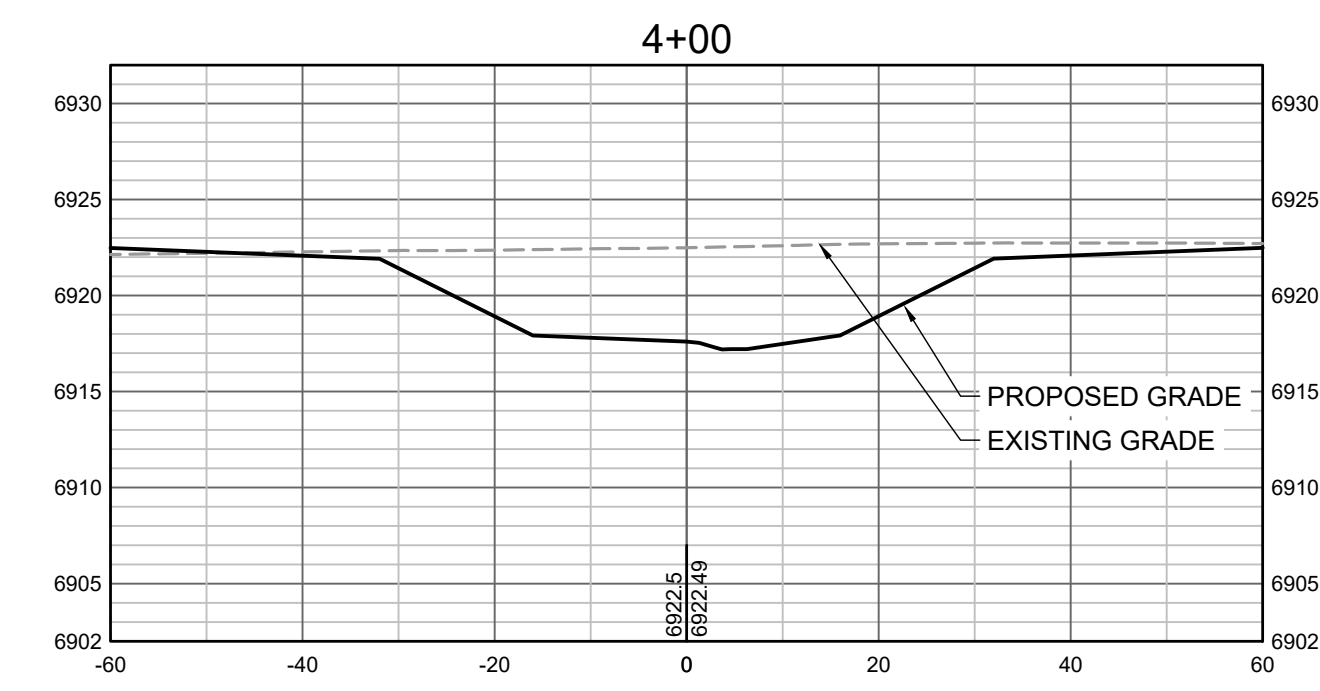
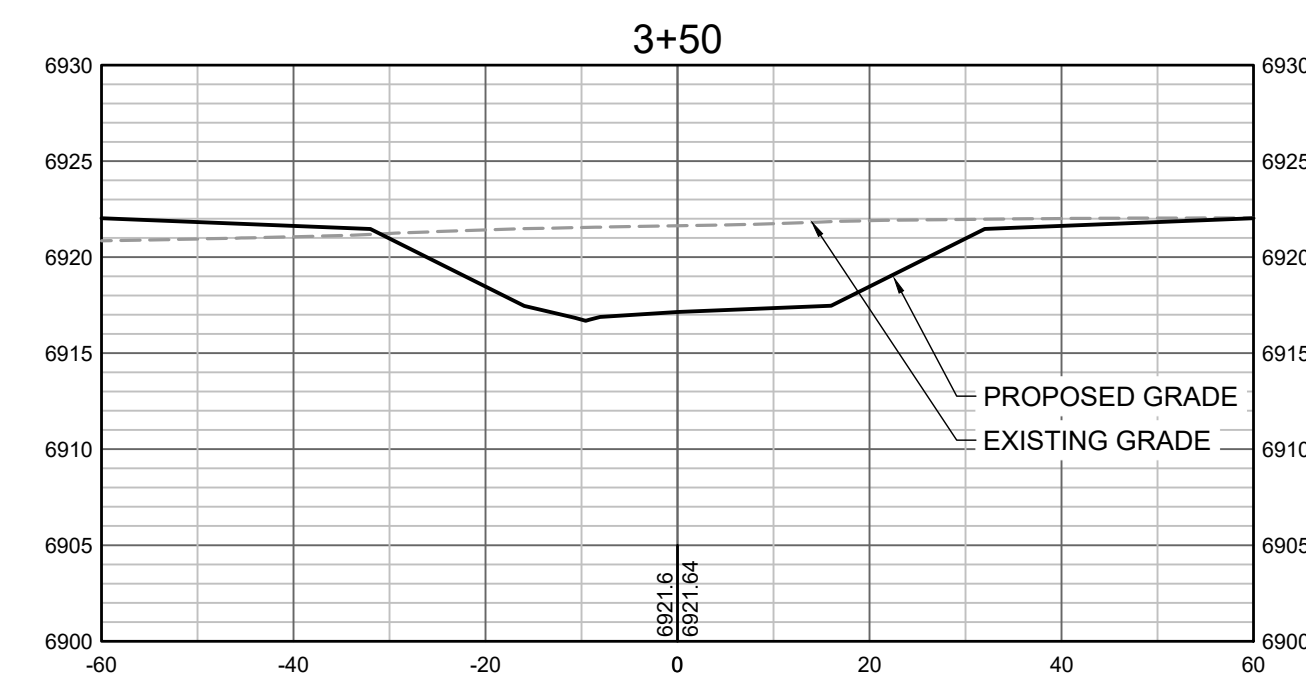
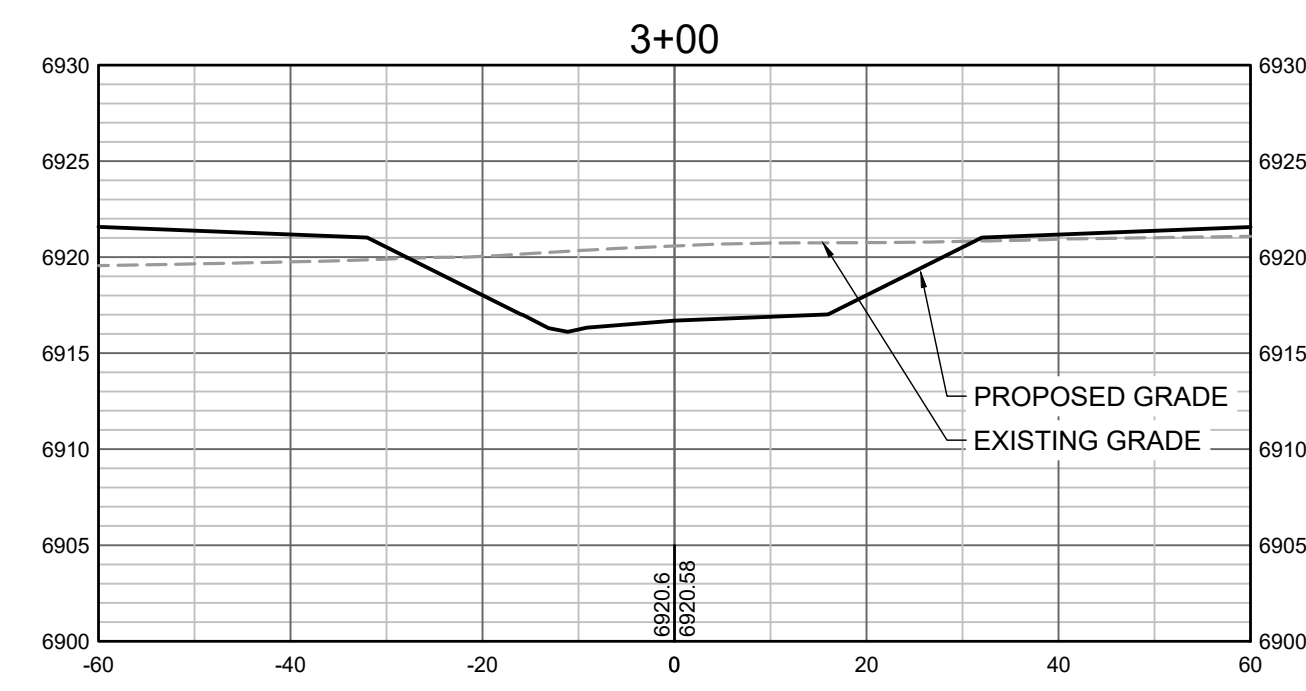
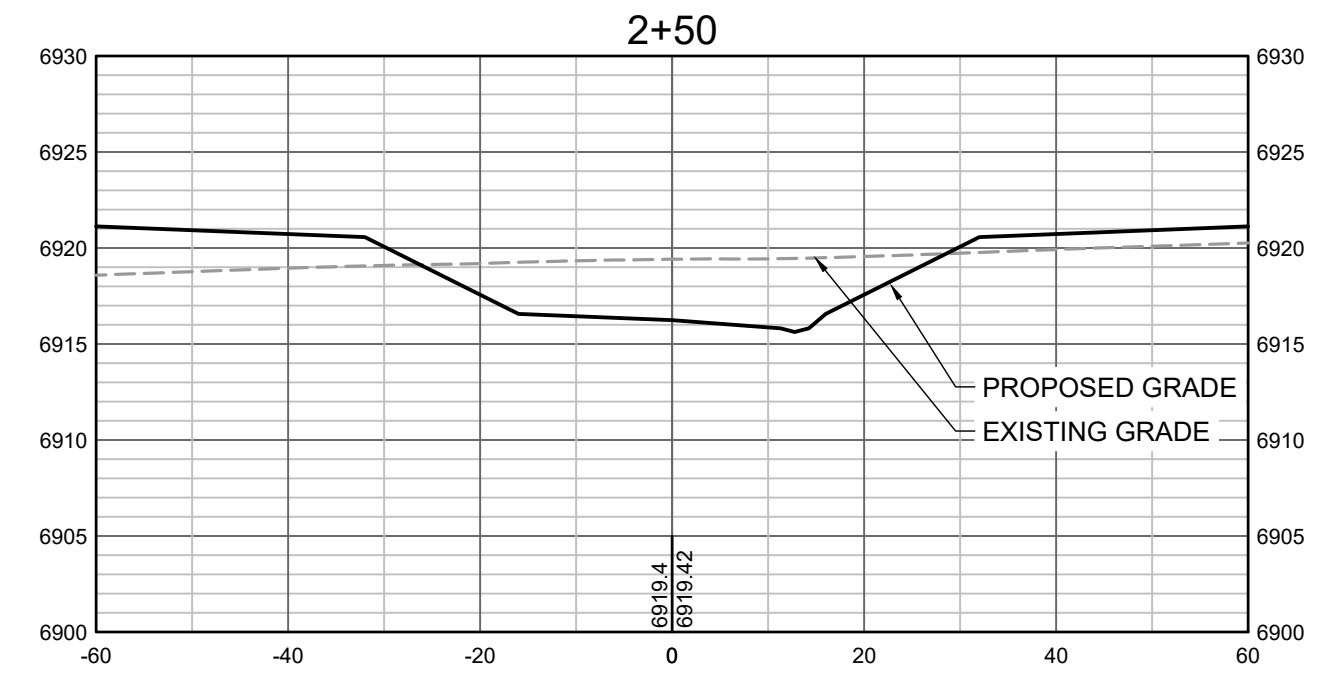
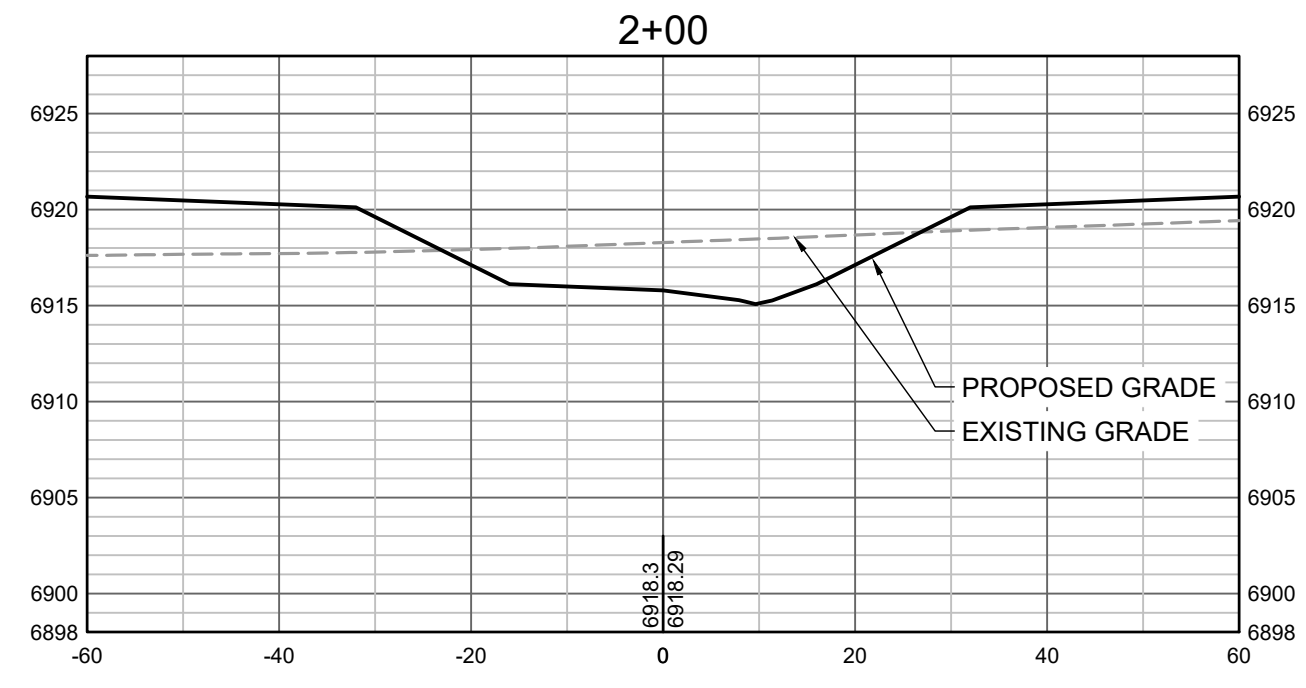
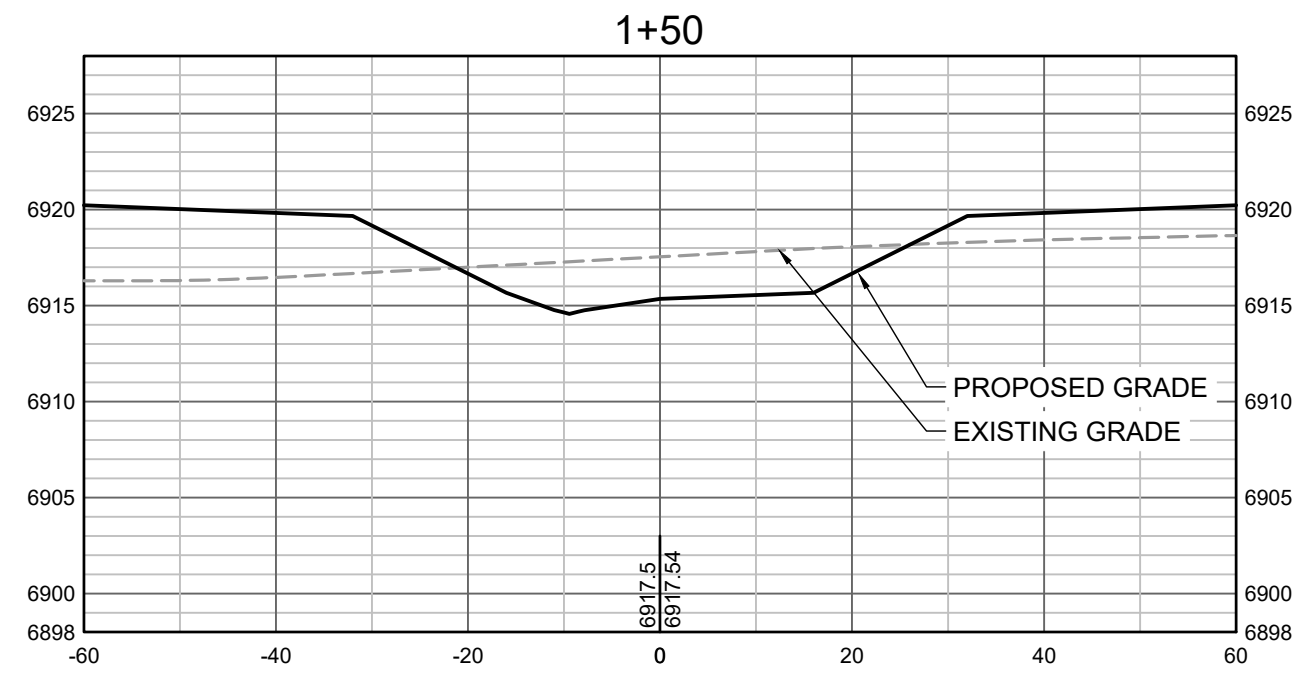
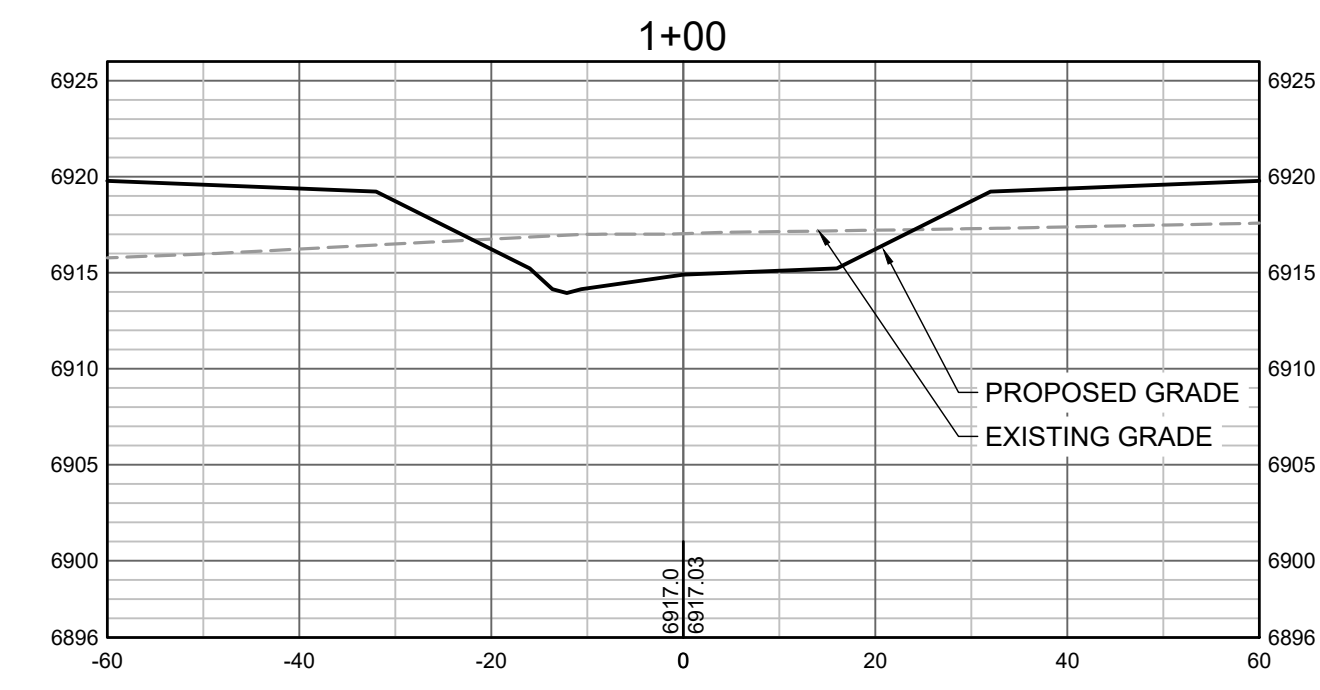
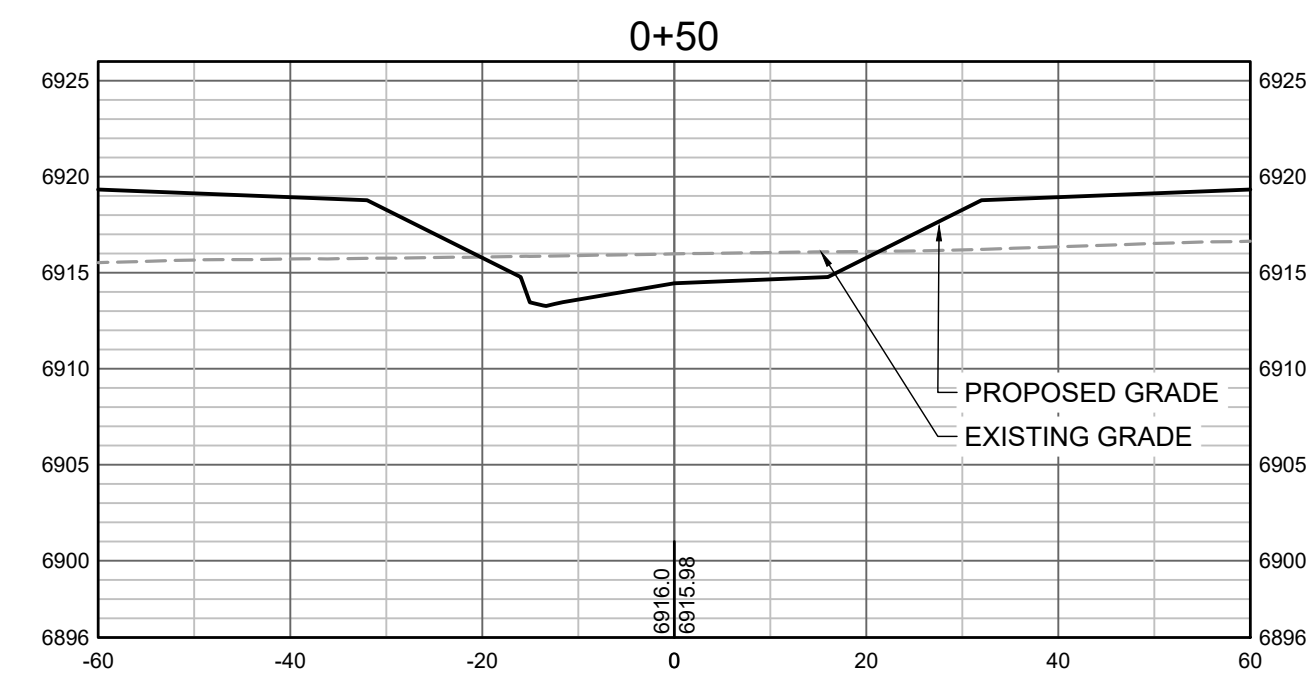
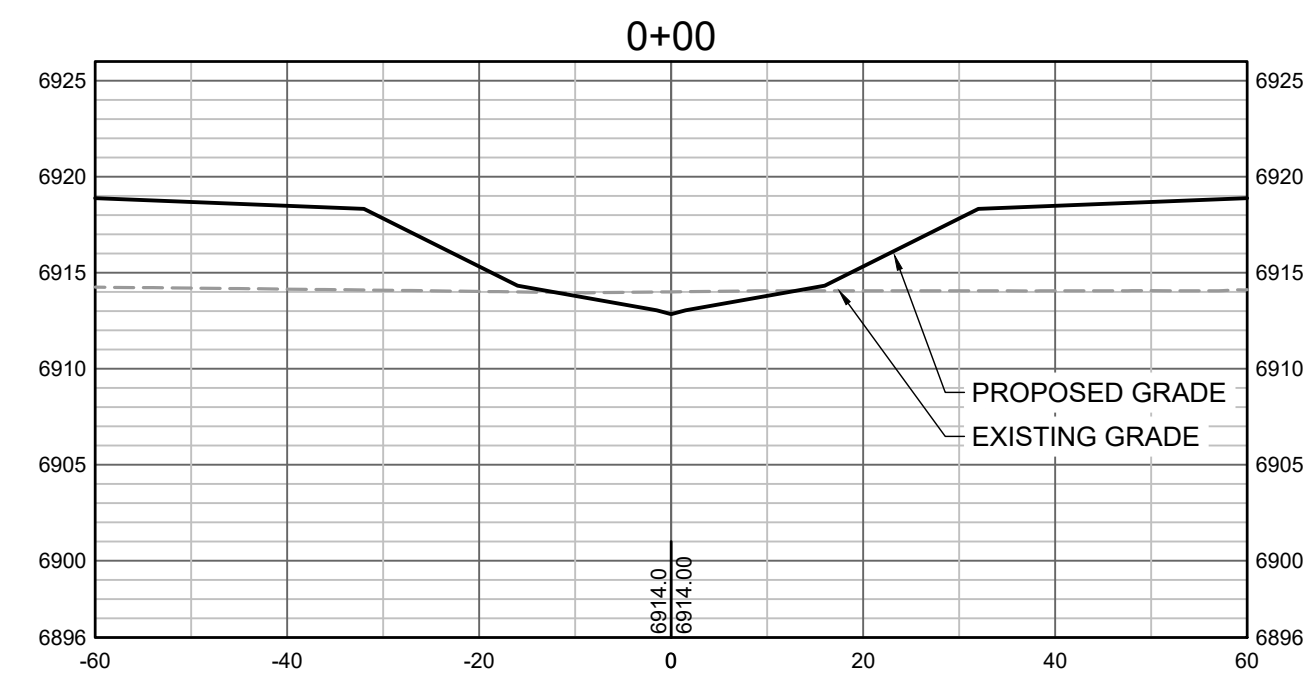
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 FALCON, COLORADO

GRANDVIEW METRO DISTRICT
 DRAINAGE B PLAN AND PROFILE

SHEET NO.
PP4 16



DRAWN BY: TBI JOB DATE: 3/3/2022
 APPROVED: CMM JOB NUMBER: 201662.03
 CAD DATE: 3/8/2022
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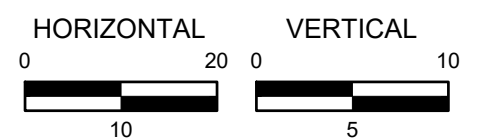
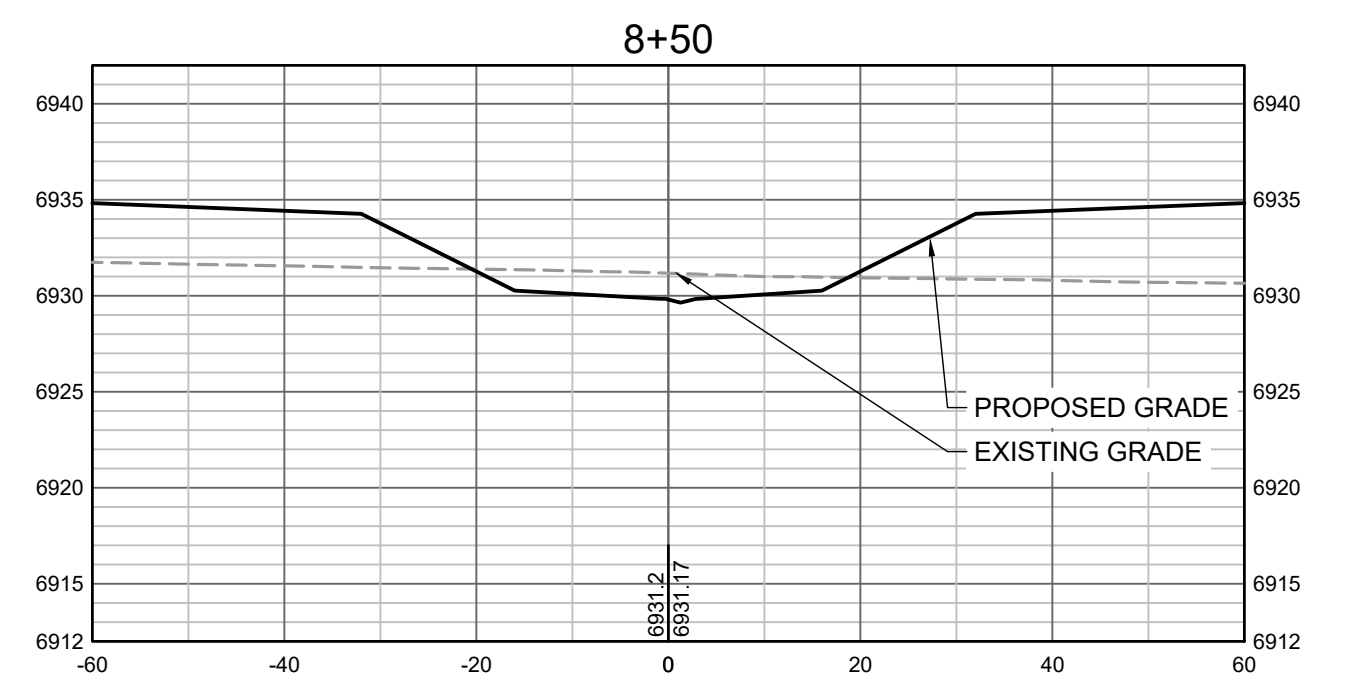
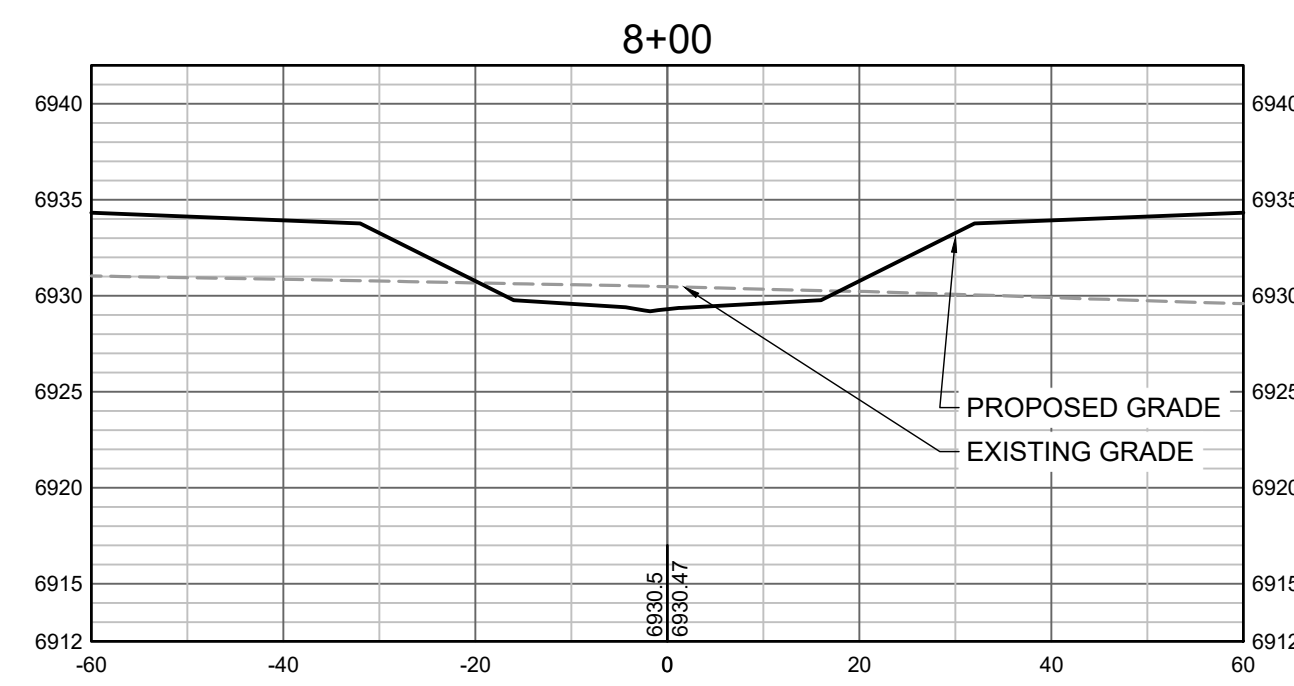
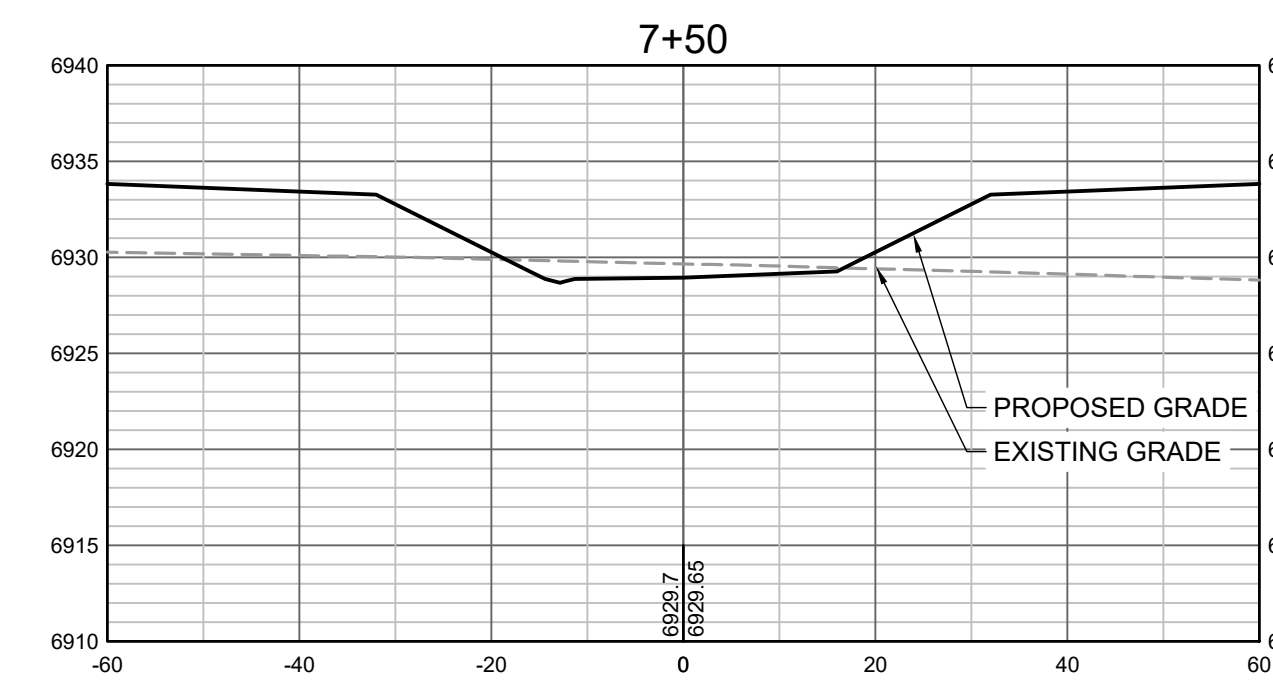
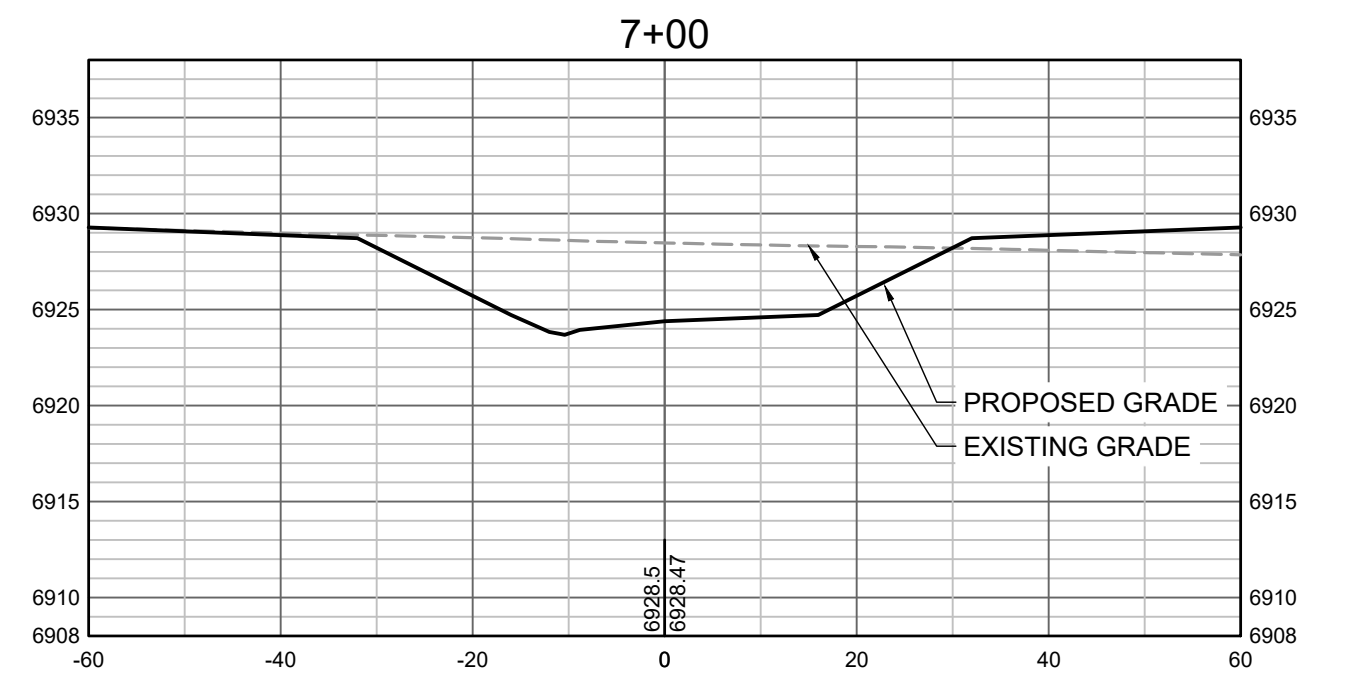
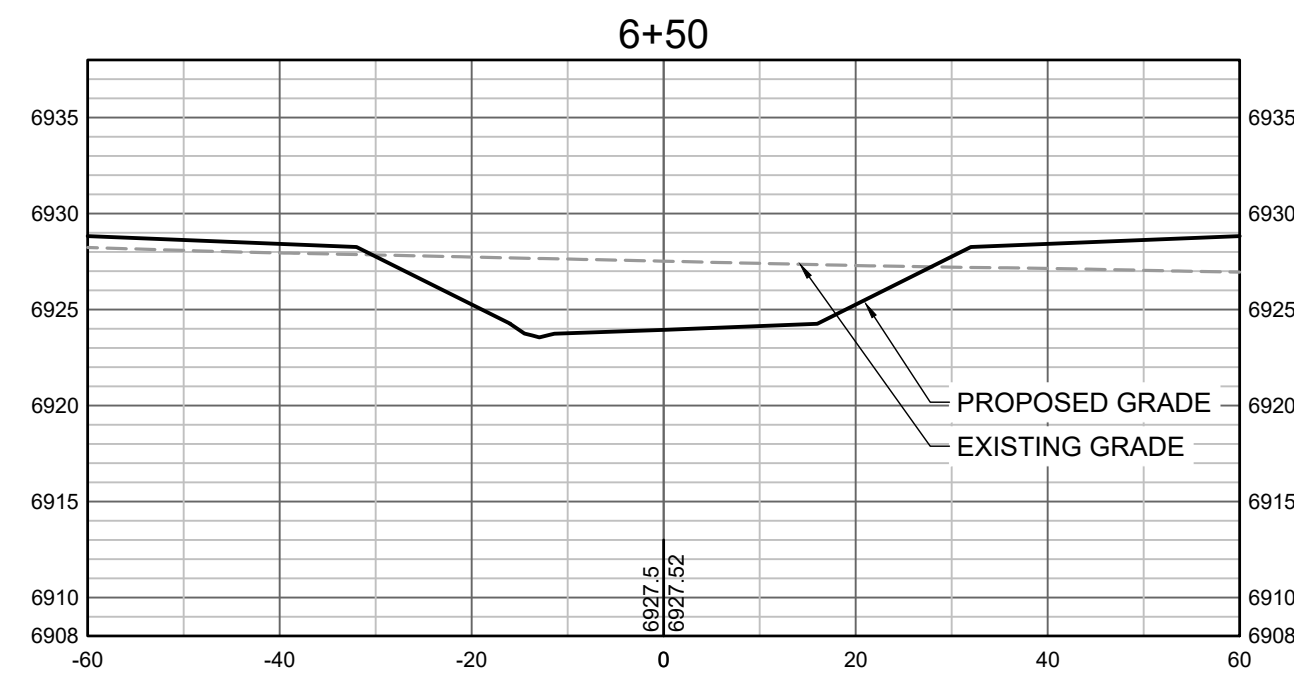
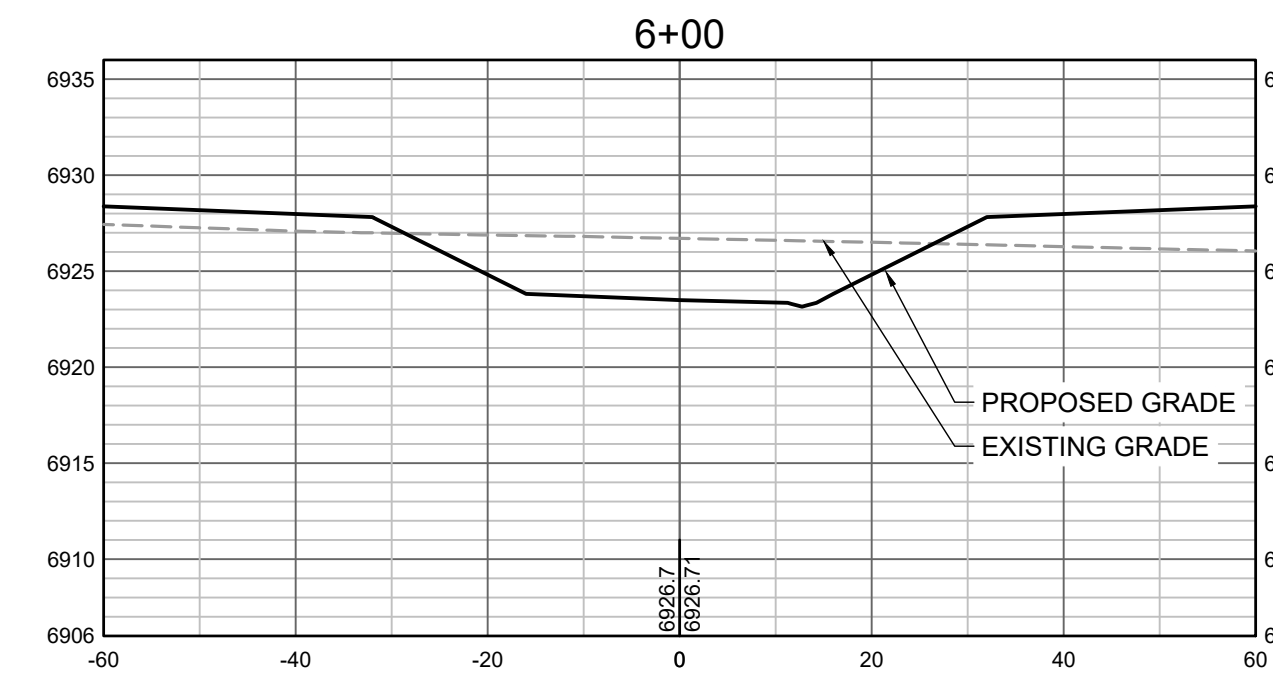
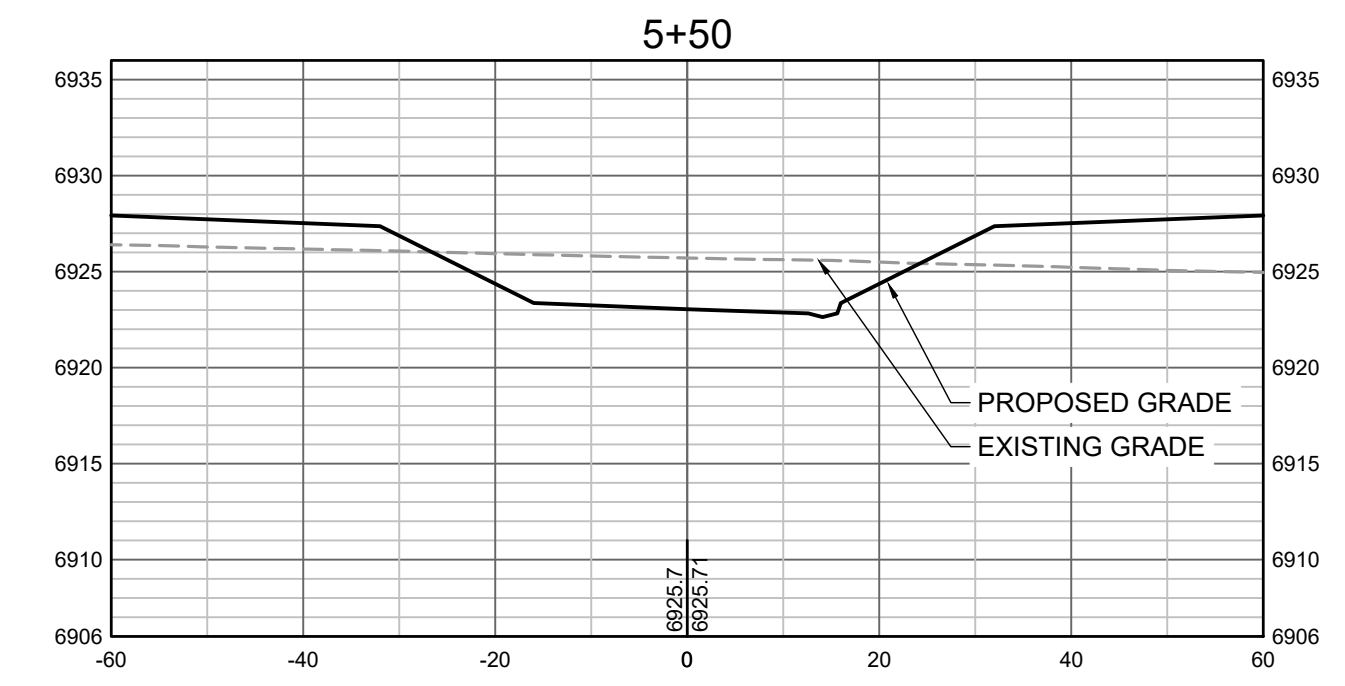
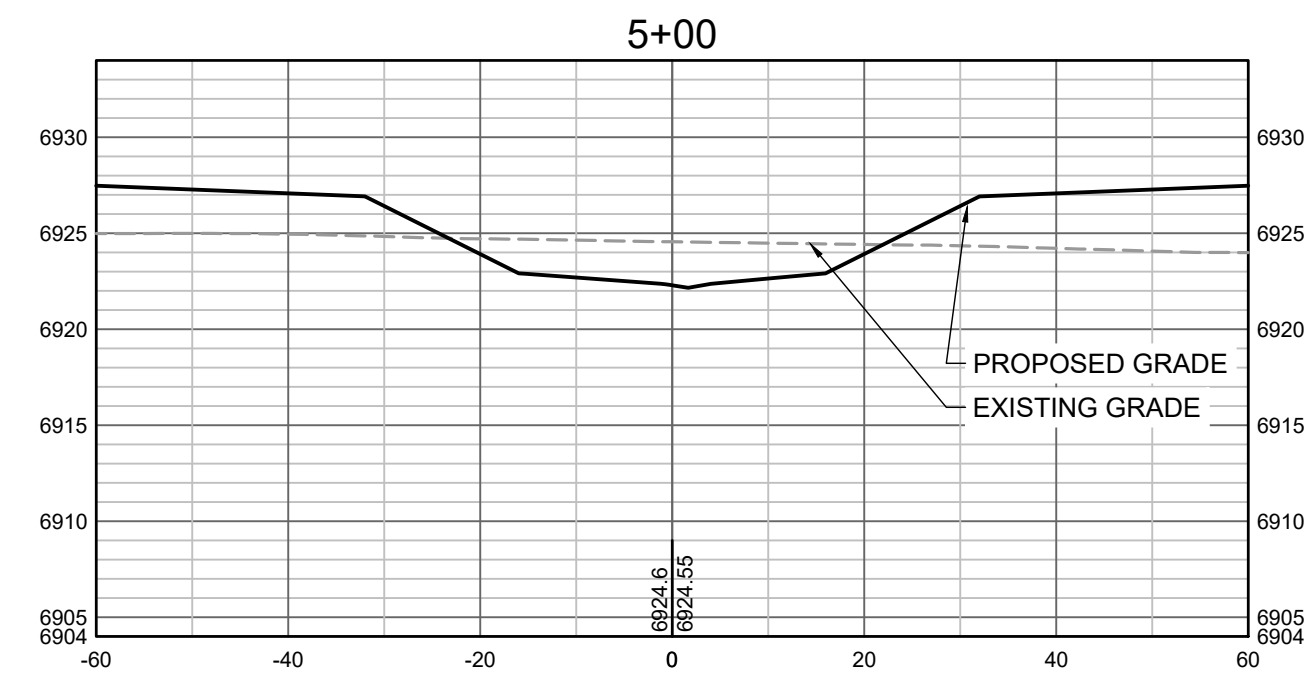
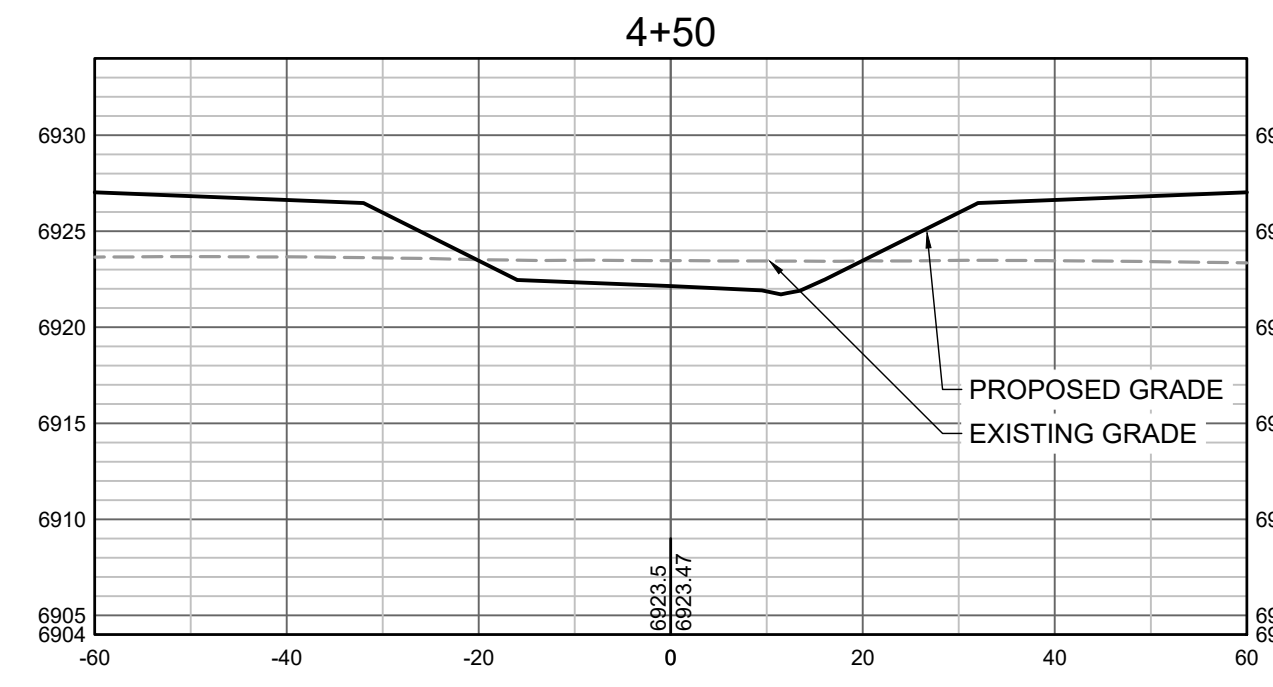


GRANDVIEW RESERVE
DR HORTON
 FALCON, COLORADO

GRANDVIEW METRO DISTRICT
 CROSS SECTIONS

SHEET NO.
CS1 17

HR GREEN Xrefs: xgs1-dh01



HR GREEN Xrefs: xgs-1-dh01

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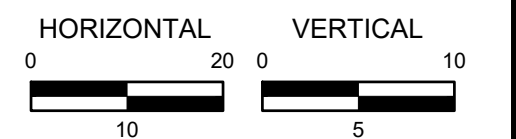
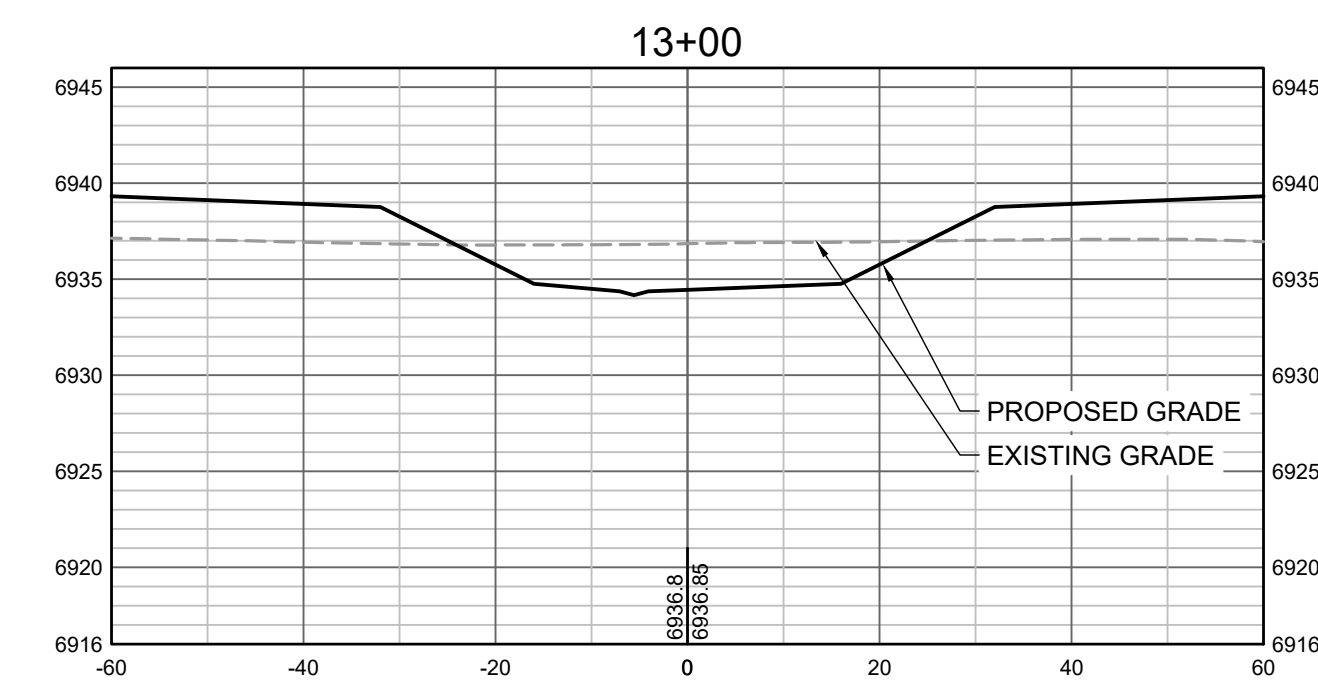
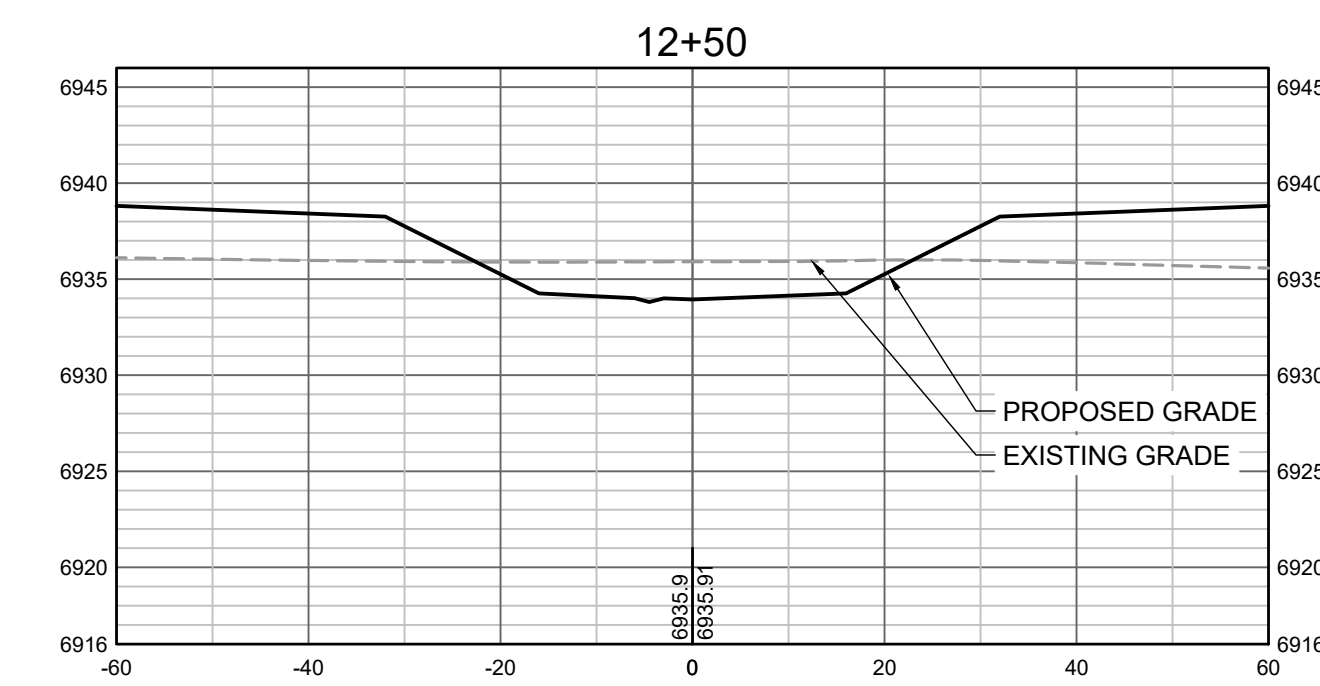
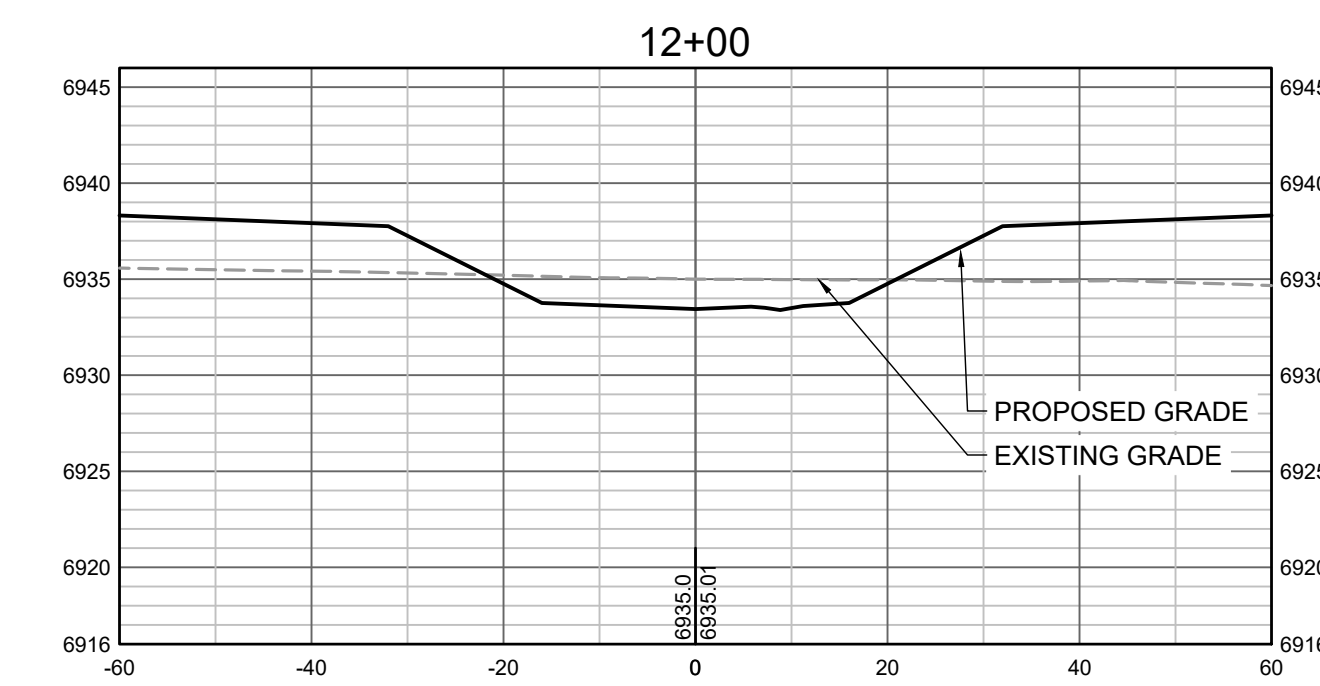
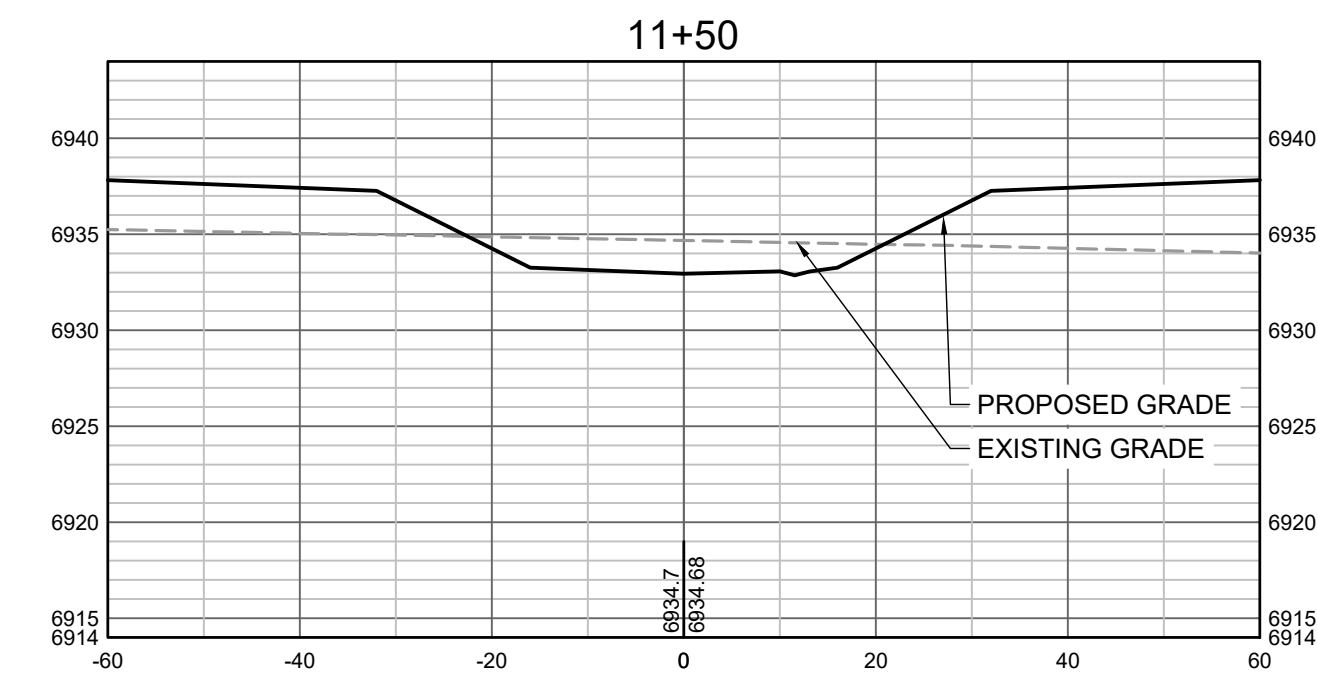
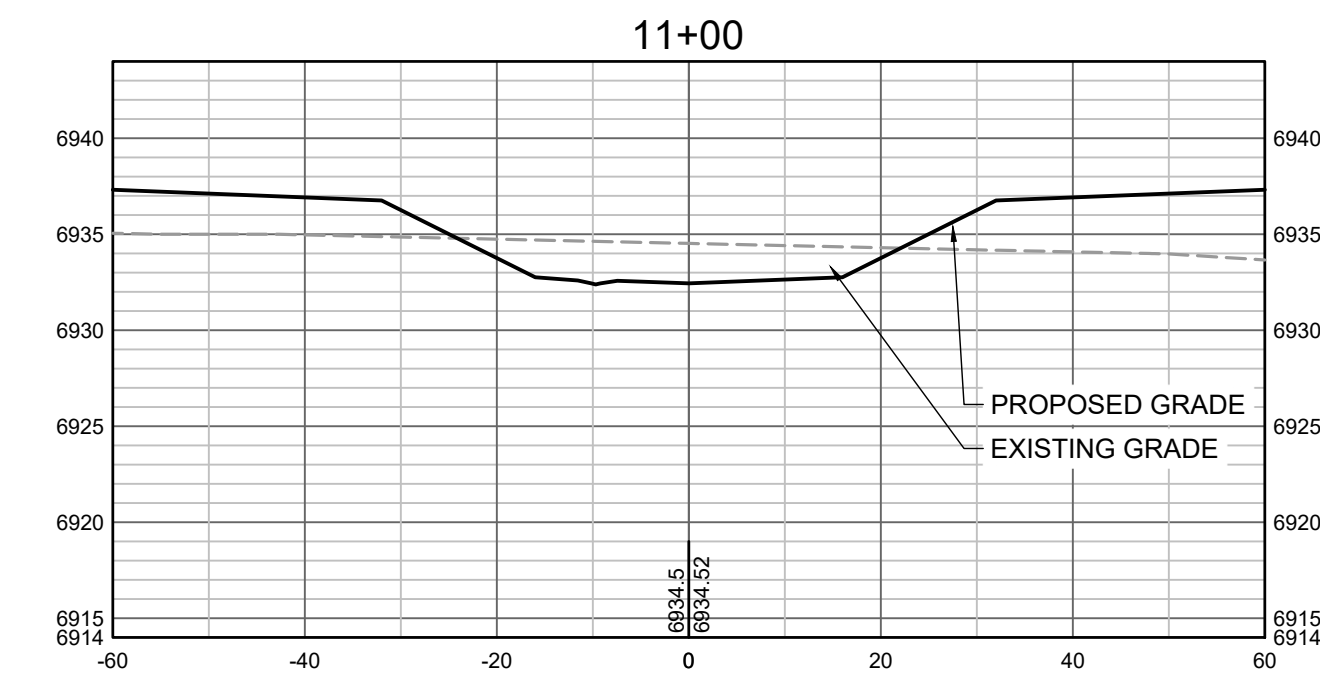
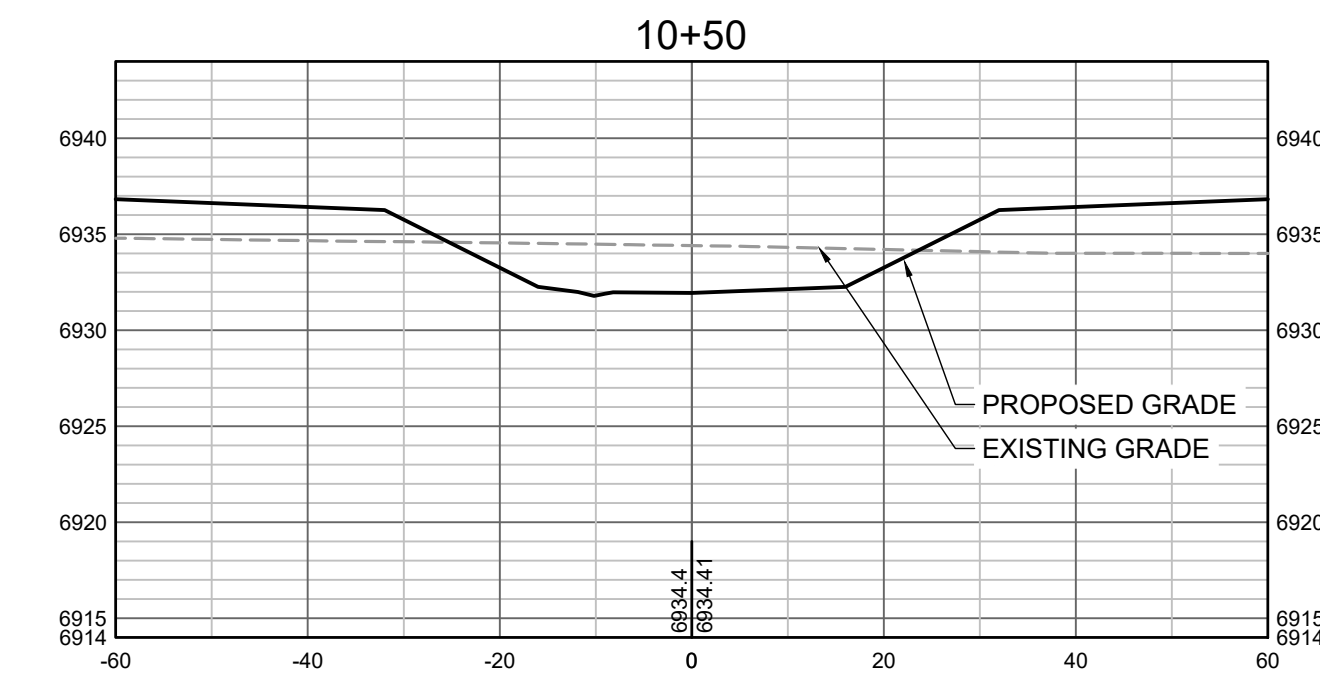
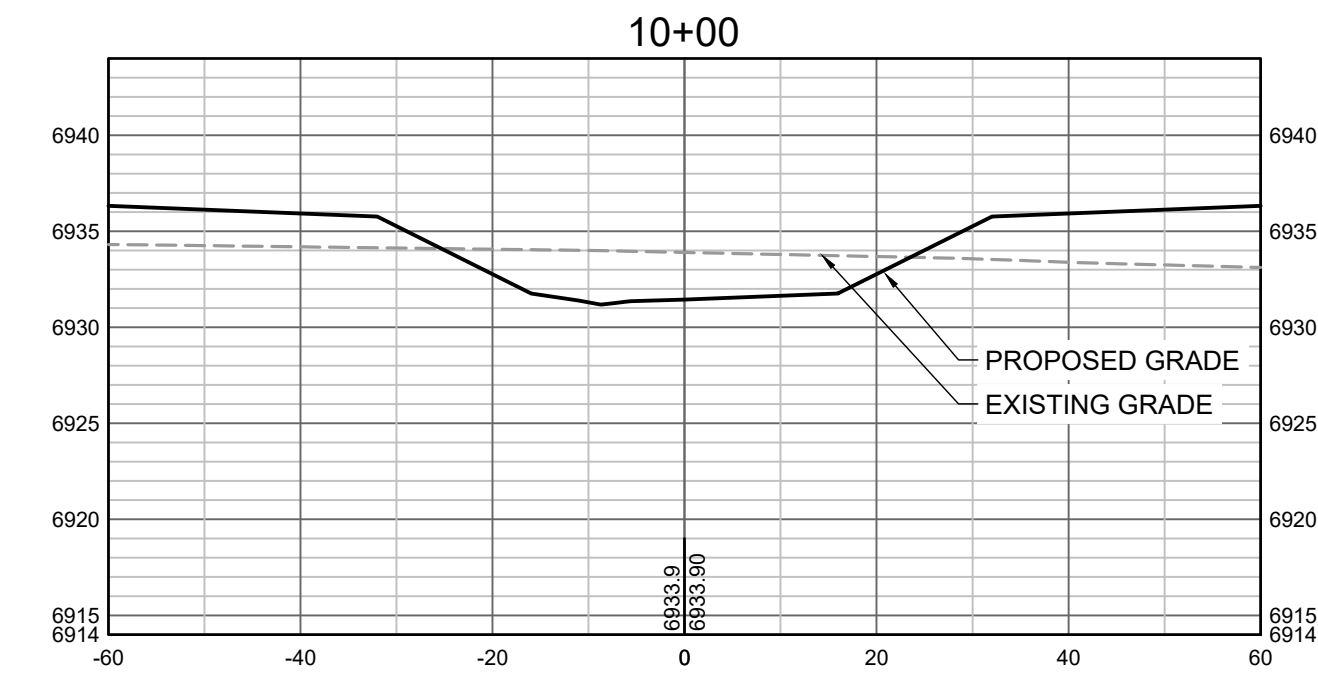
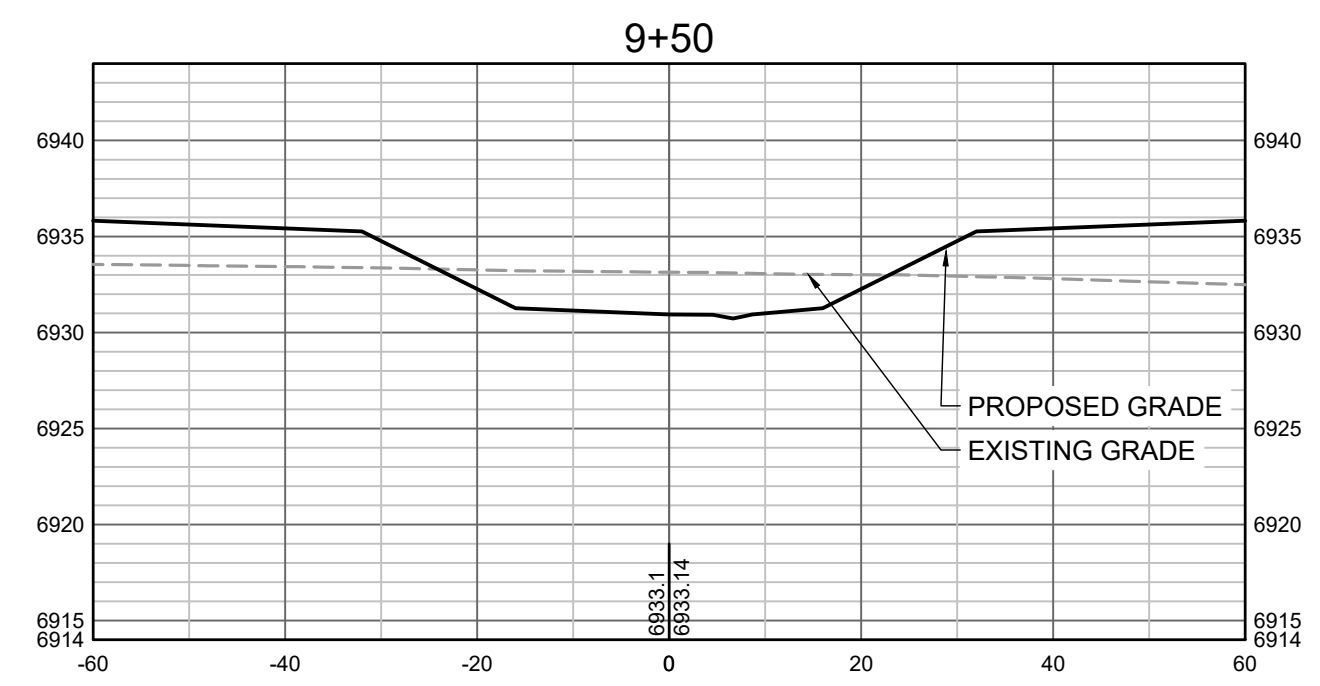
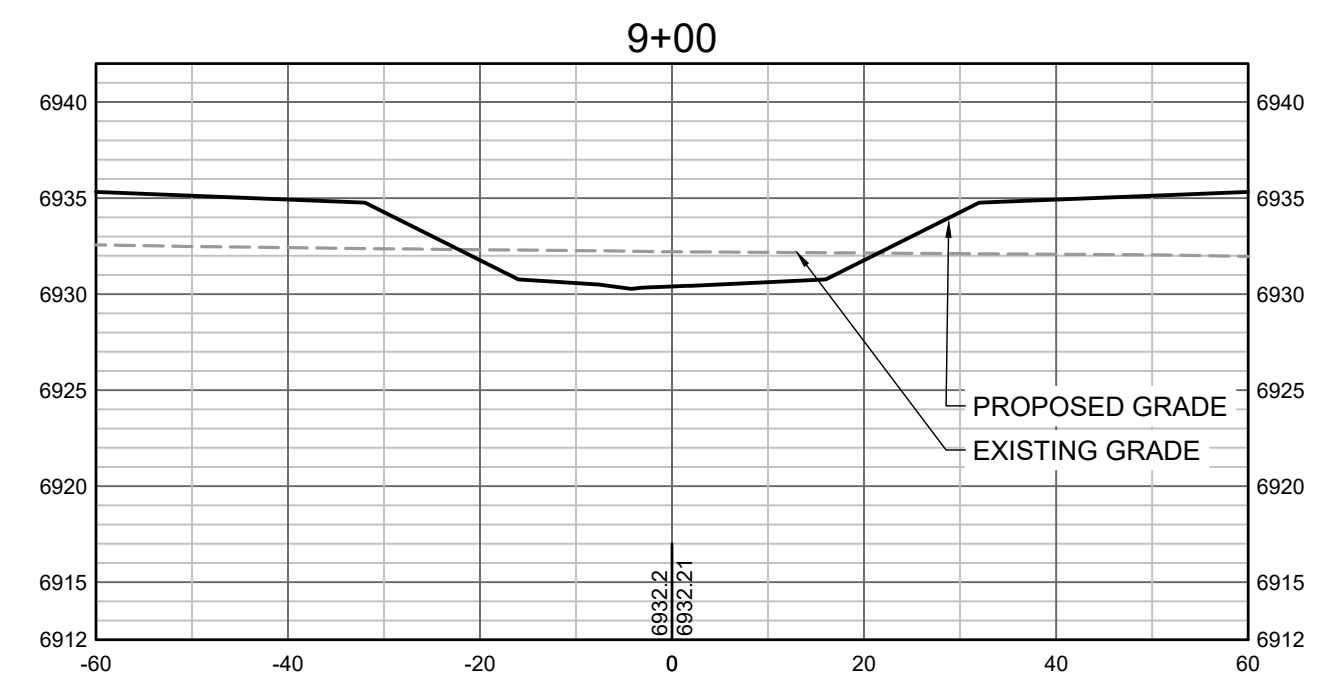
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GRANDVIEW RESERVE
DR HORTON
 FALCON, COLORADO

GRANDVIEW METRO DISTRICT
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SHEET NO.
CS2 18



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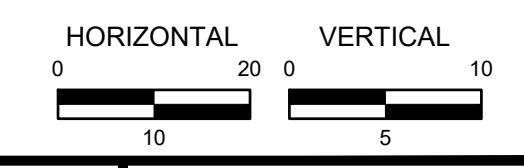
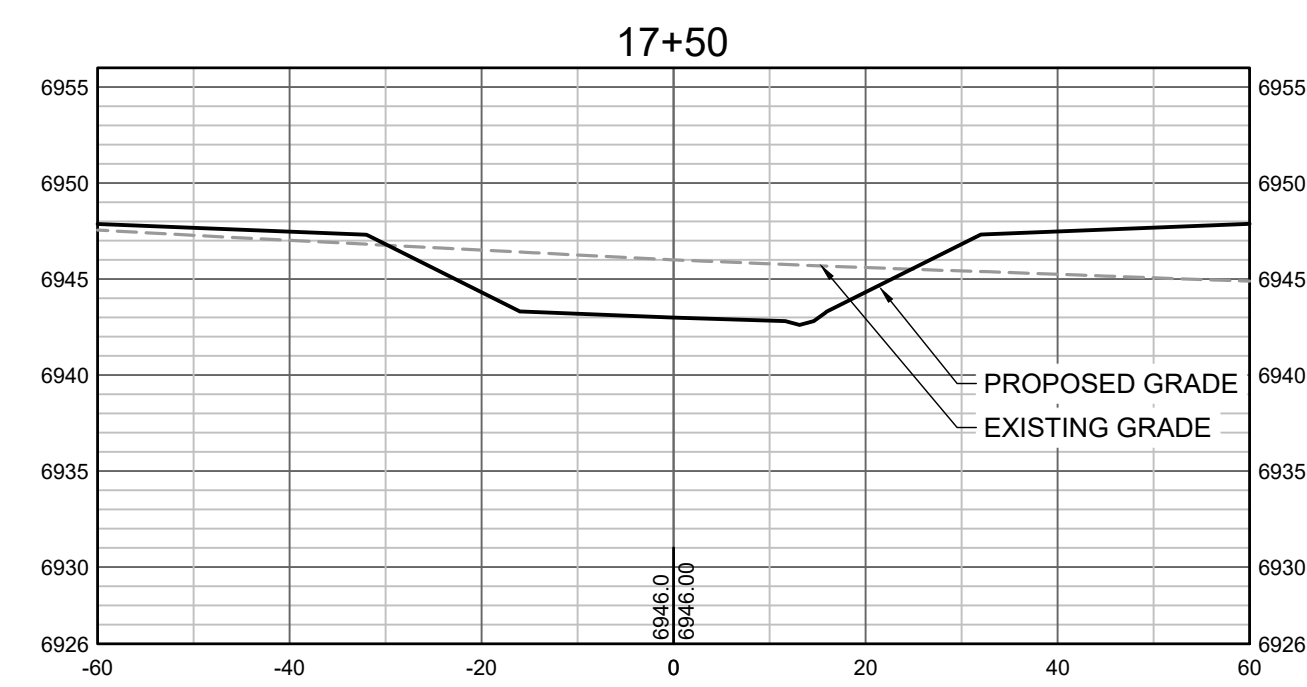
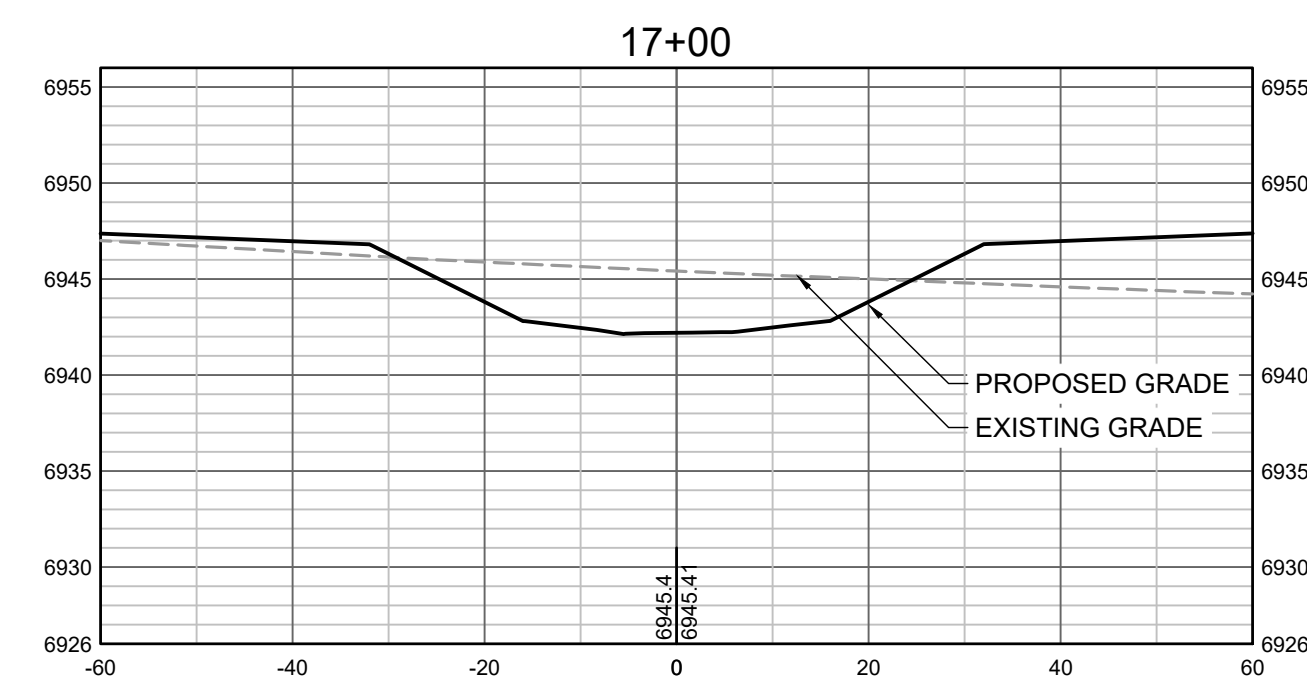
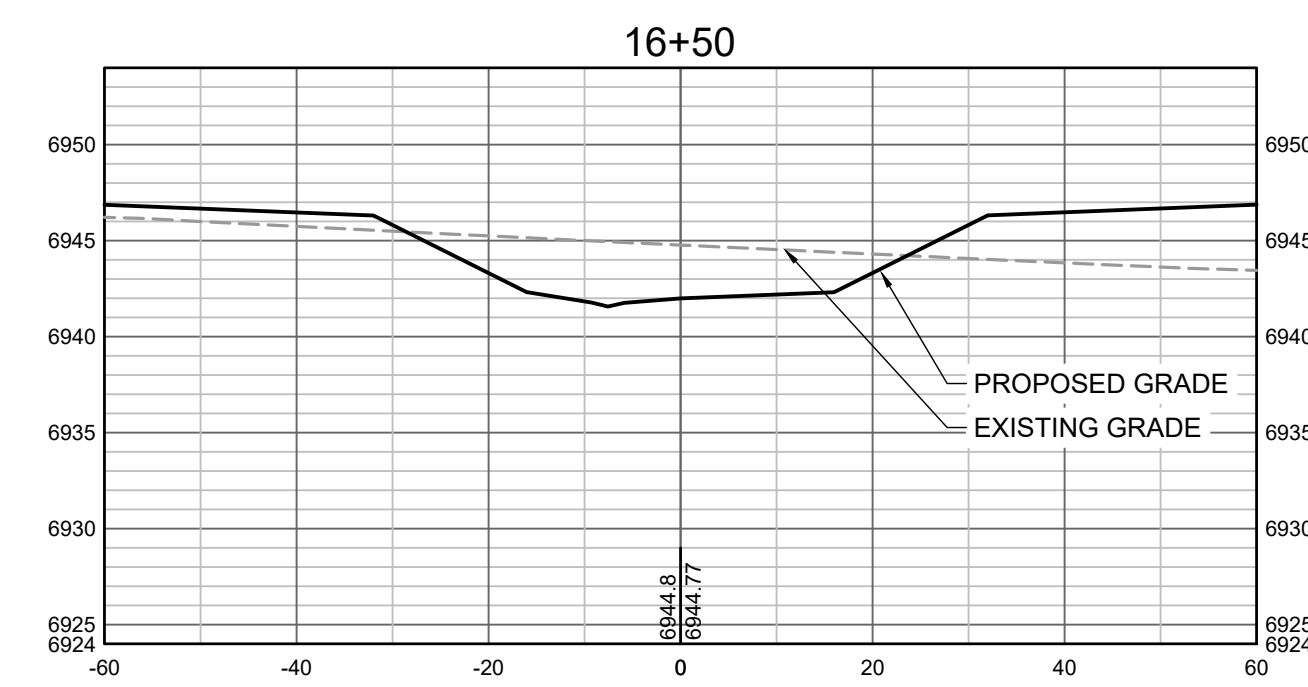
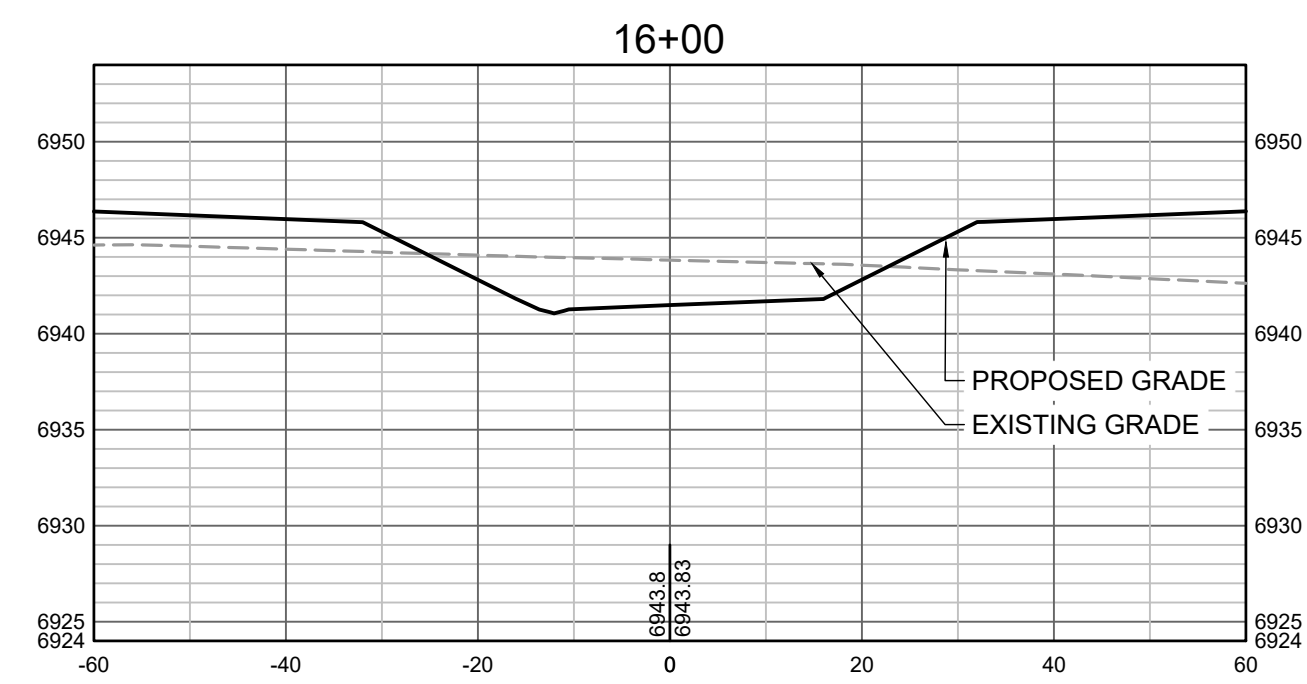
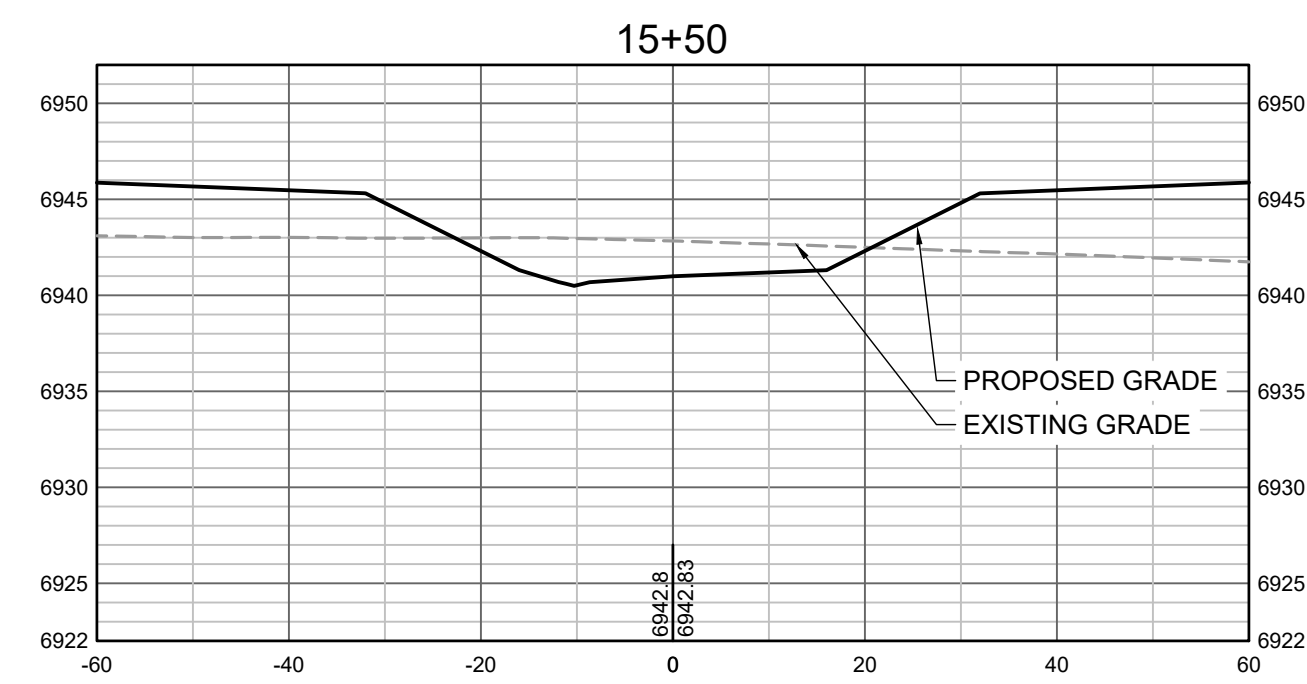
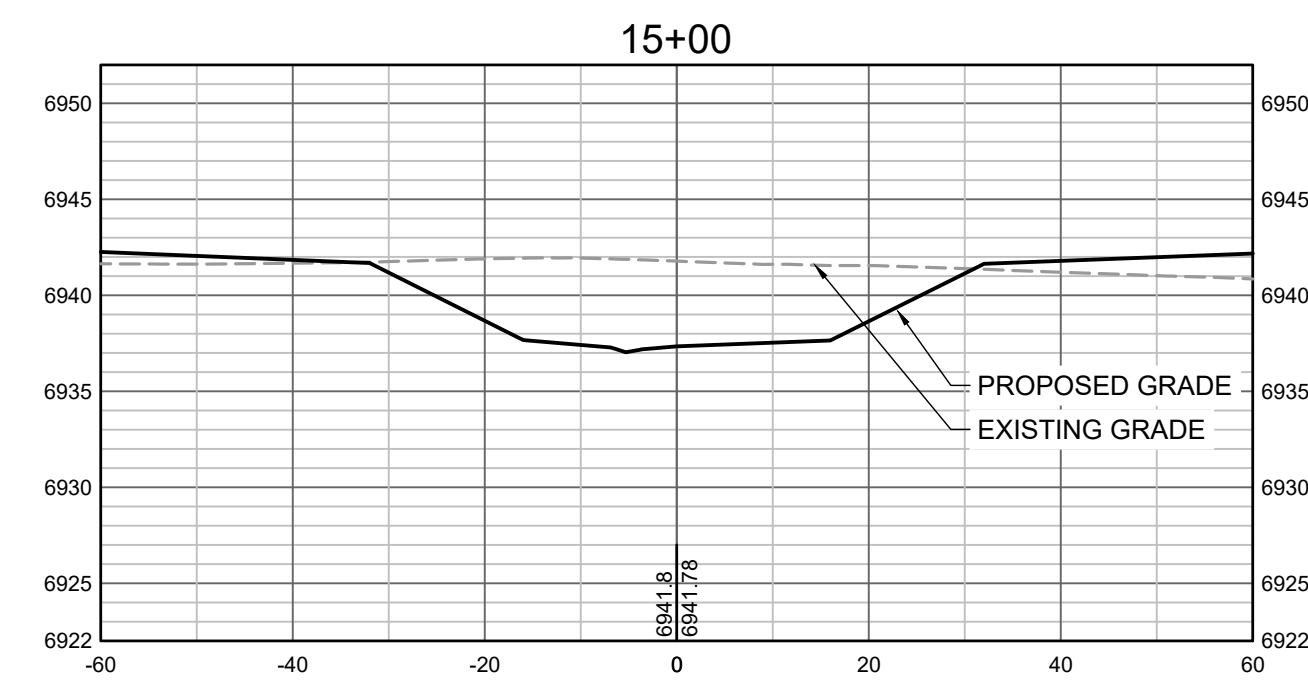
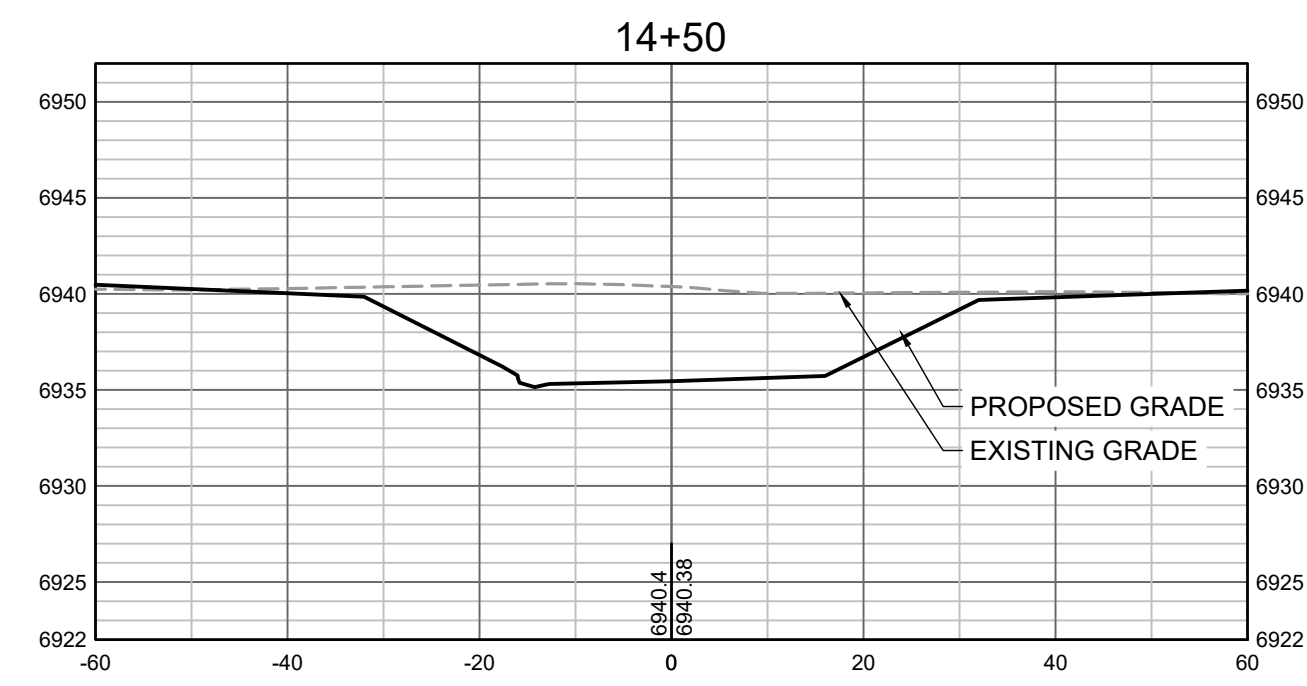
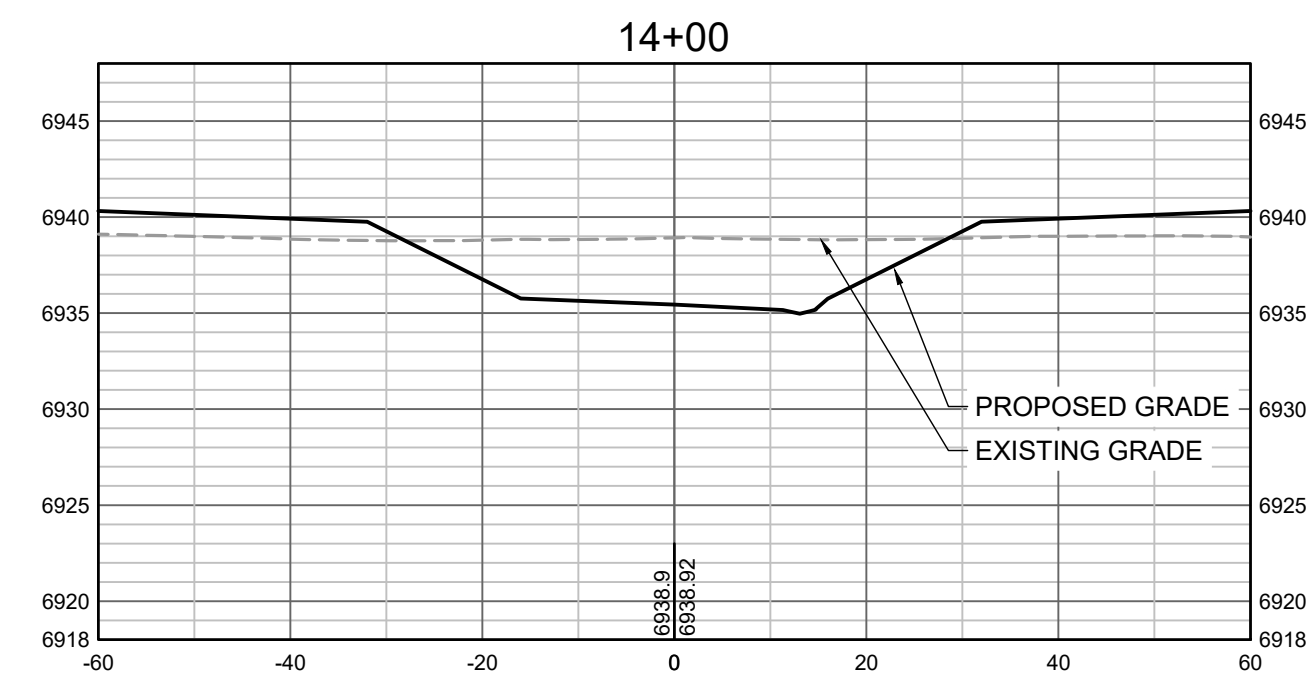
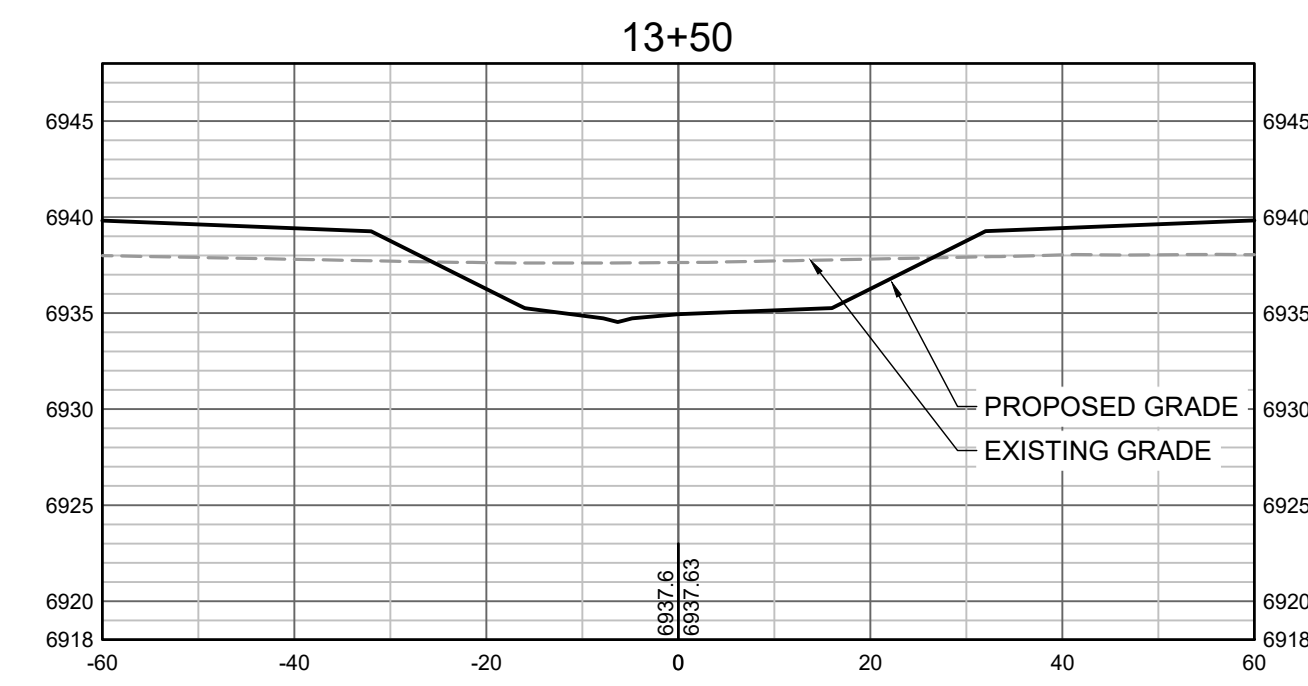


GRANDVIEW RESERVE
DR HORTON
 FALCON, COLORADO

GRANDVIEW METRO DISTRICT
 CROSS SECTIONS

SHEET NO.
CS3 19

HR GREEN Xref: xref.dwg



HR GREEN Xrefs.xgt-1-df01

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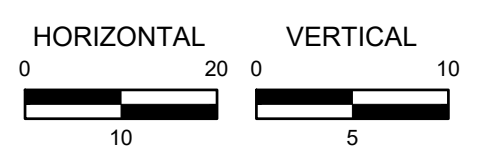
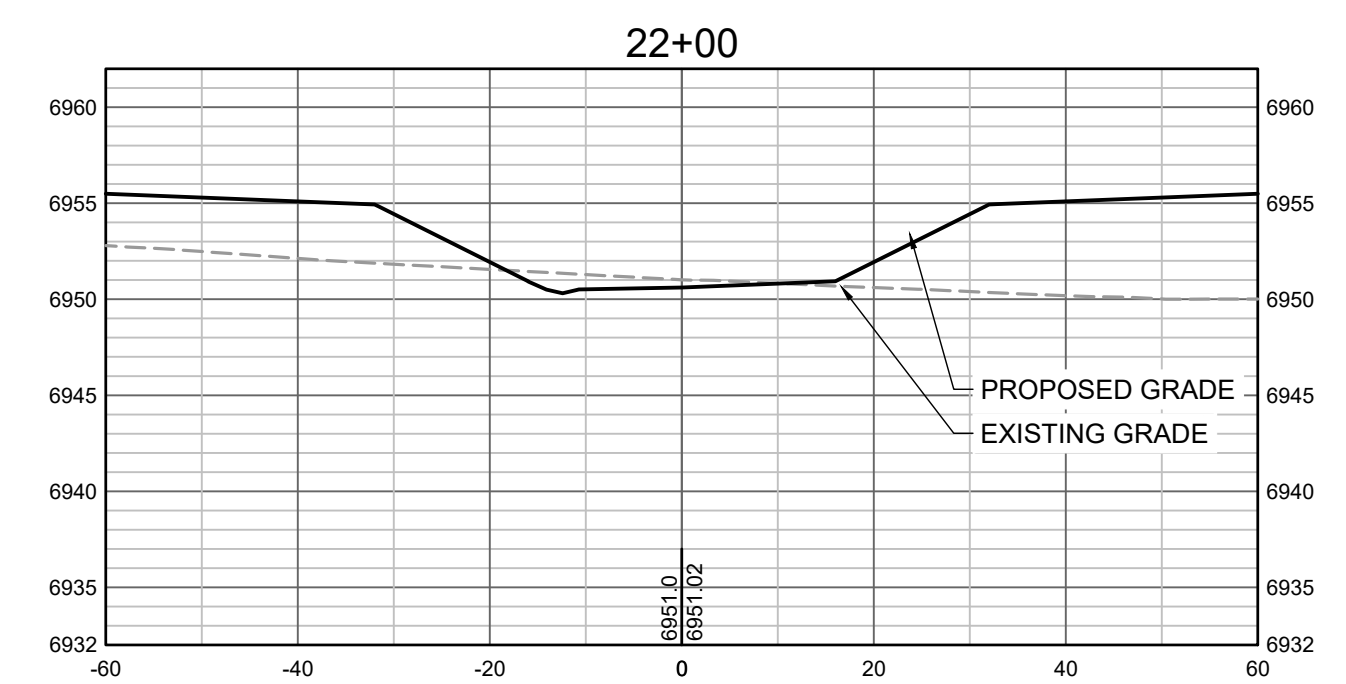
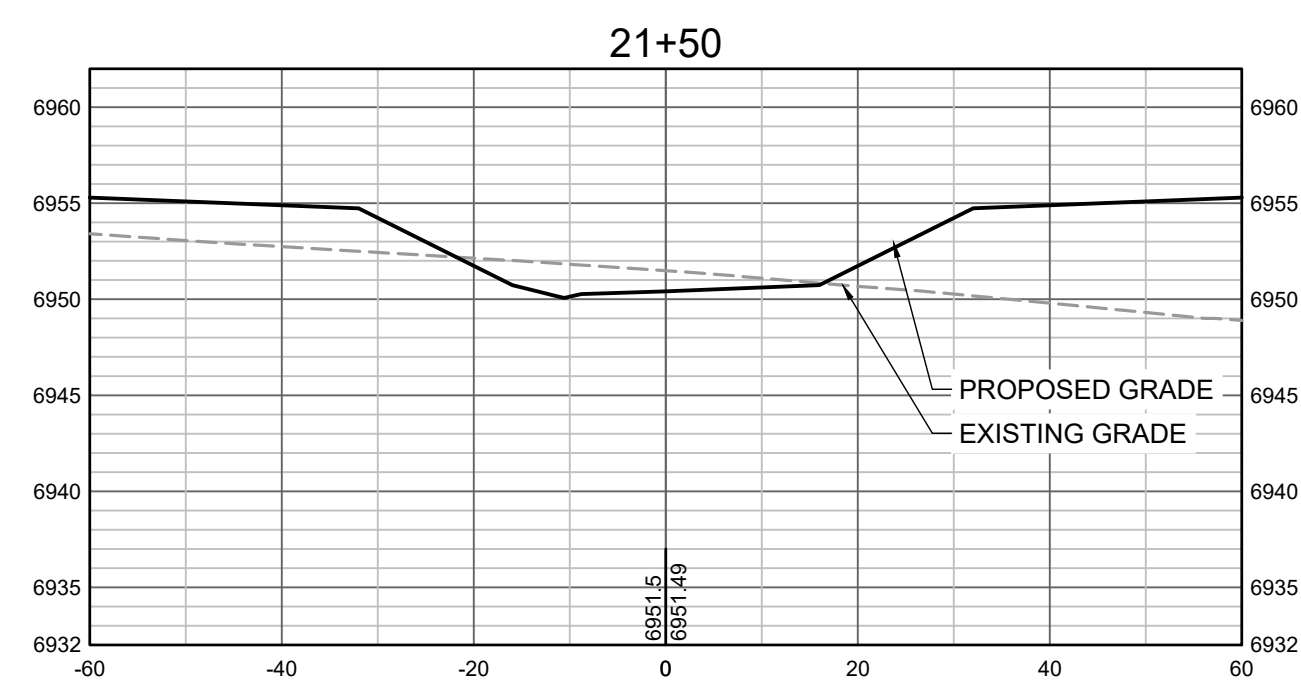
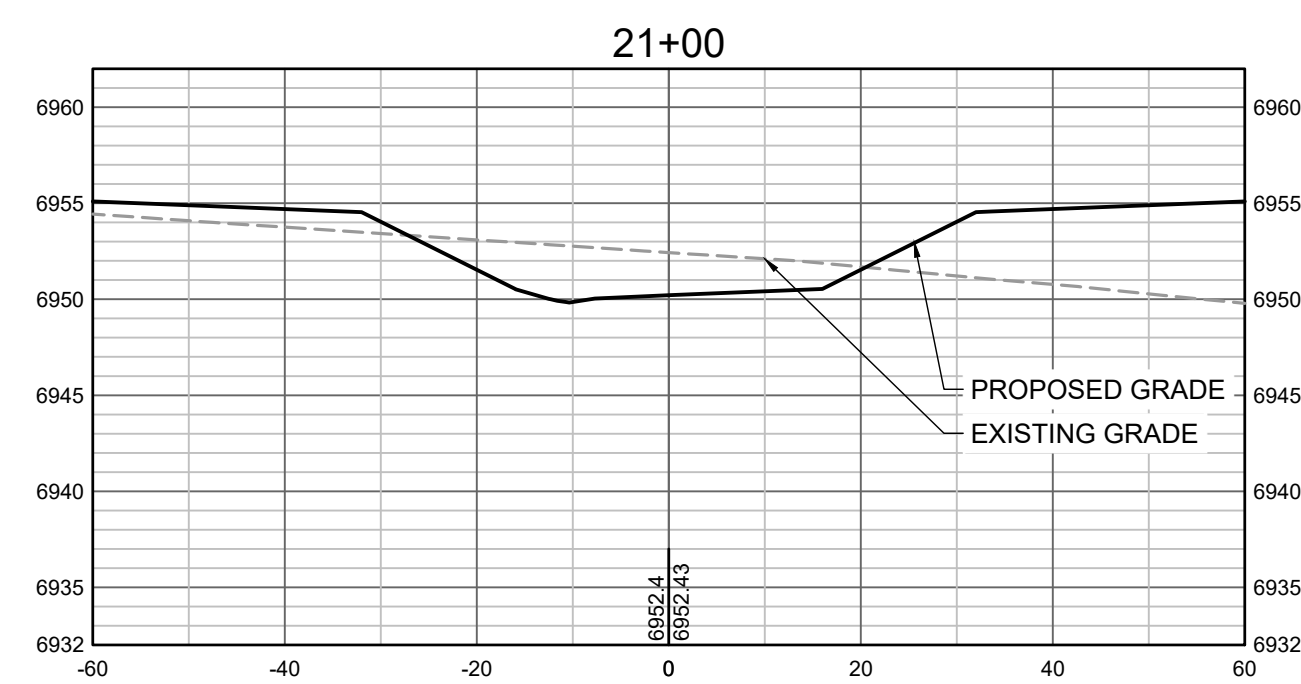
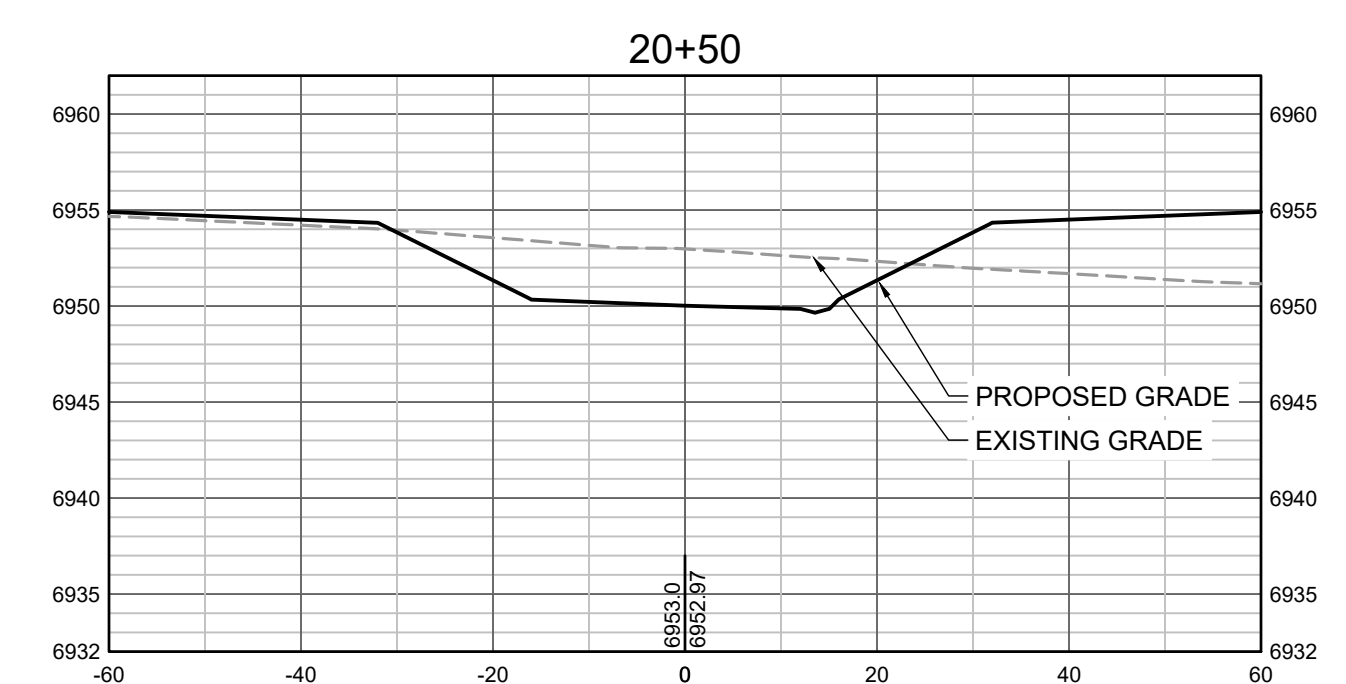
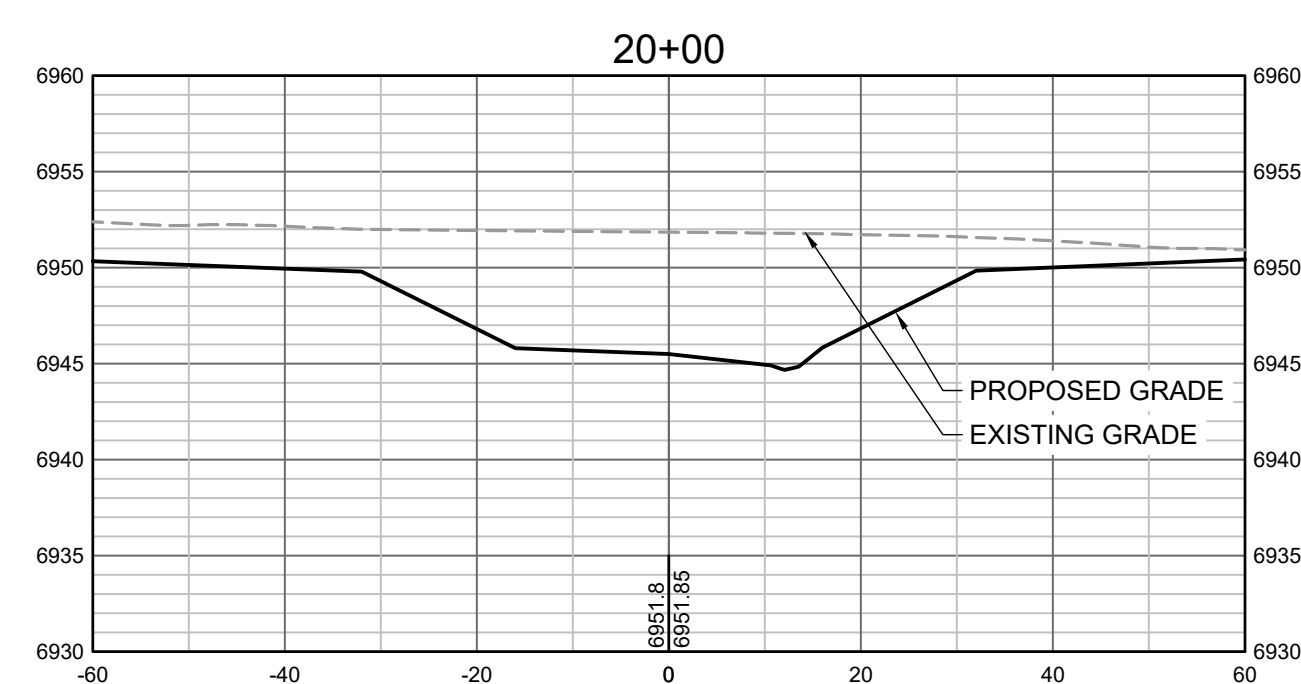
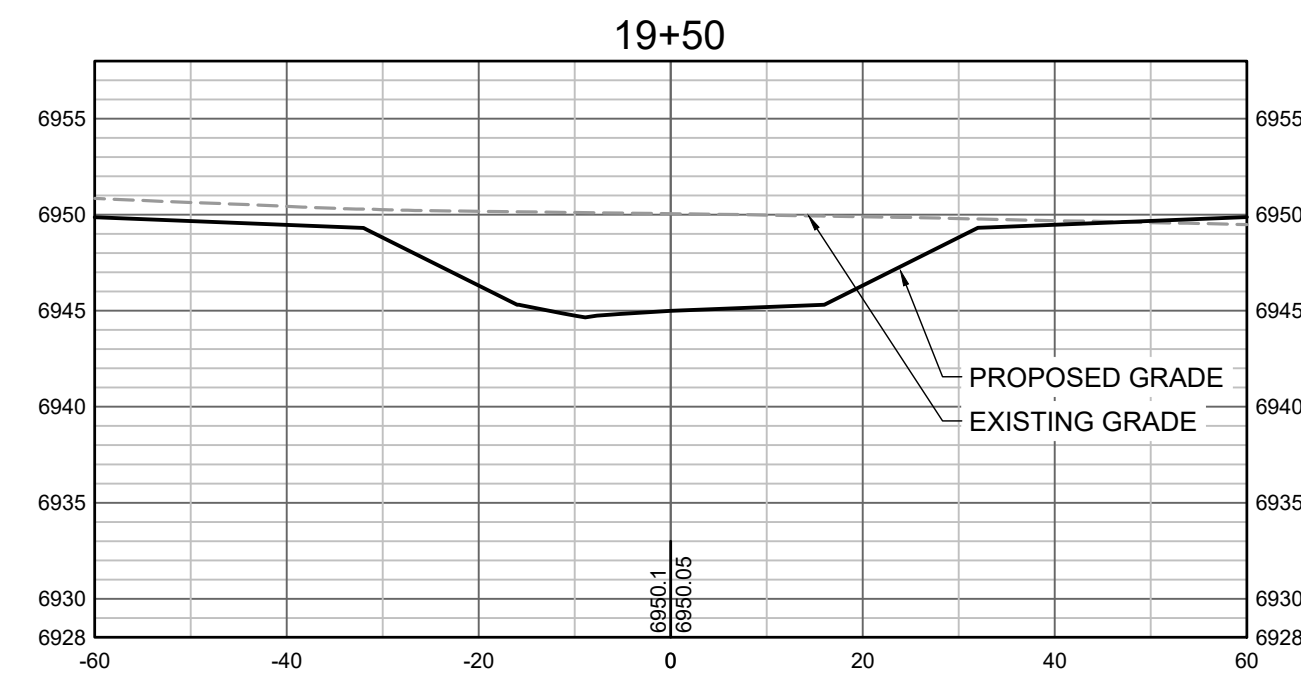
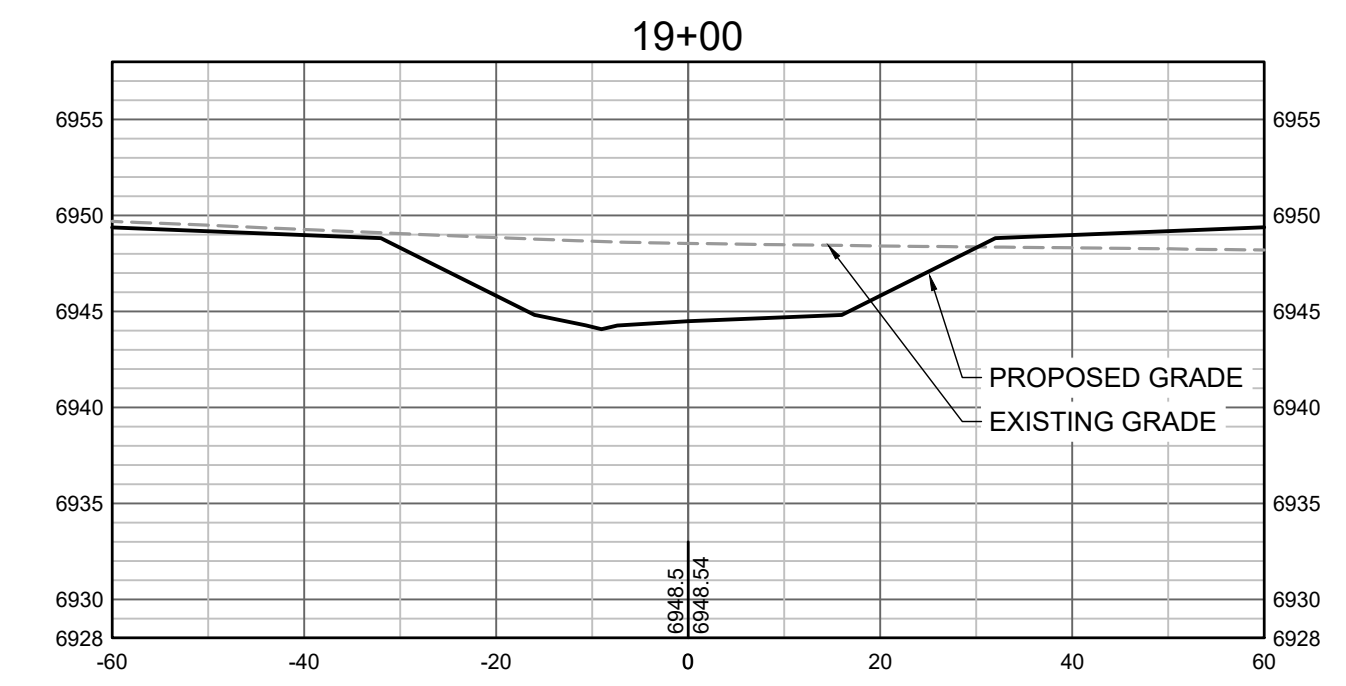
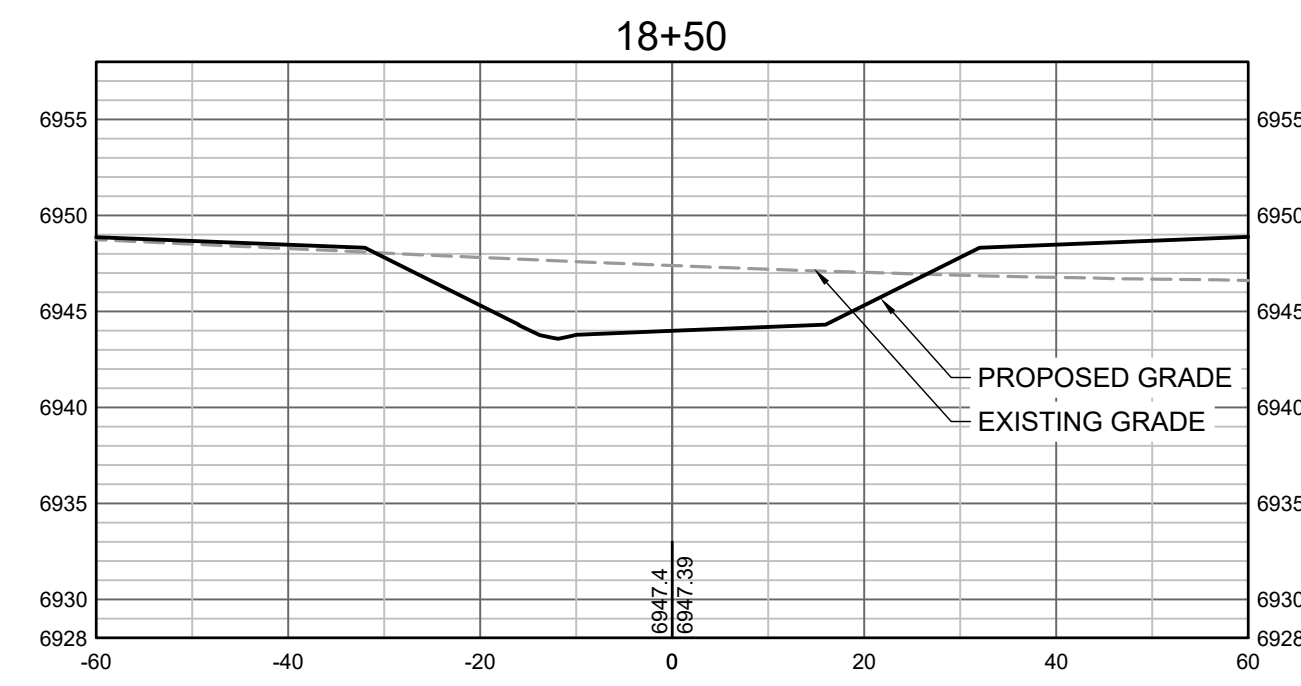
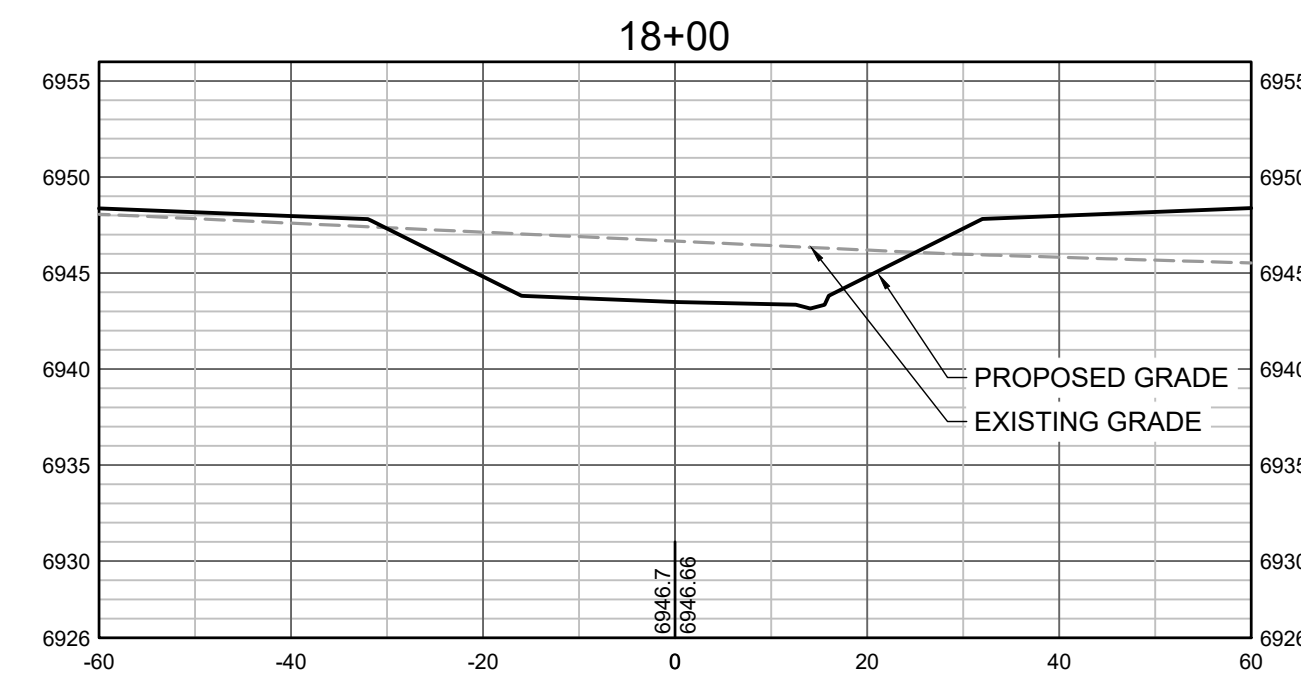
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GRANDVIEW RESERVE
DR HORTON
 FALCON, COLORADO

GRANDVIEW METRO DISTRICT
 CROSS SECTIONS

SHEET NO.
CS4 20



HR GREEN Xrefs: xgs-dh01

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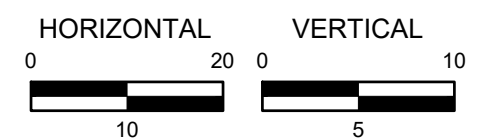
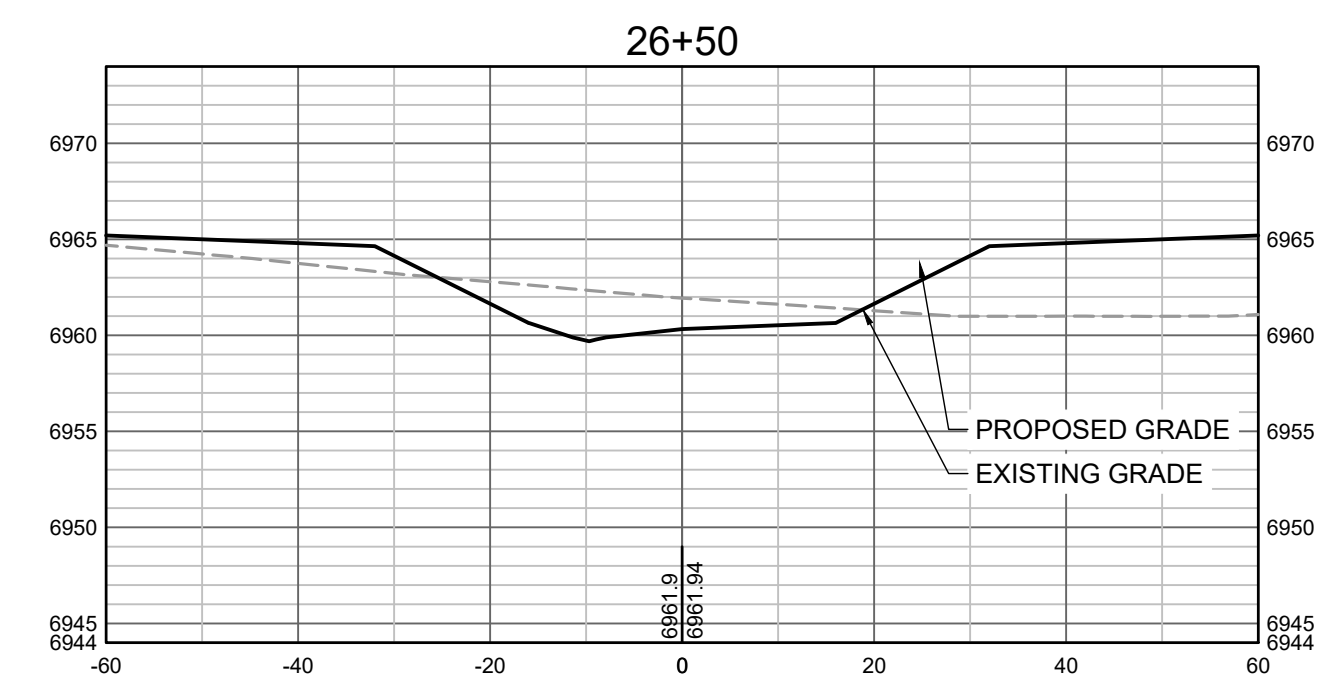
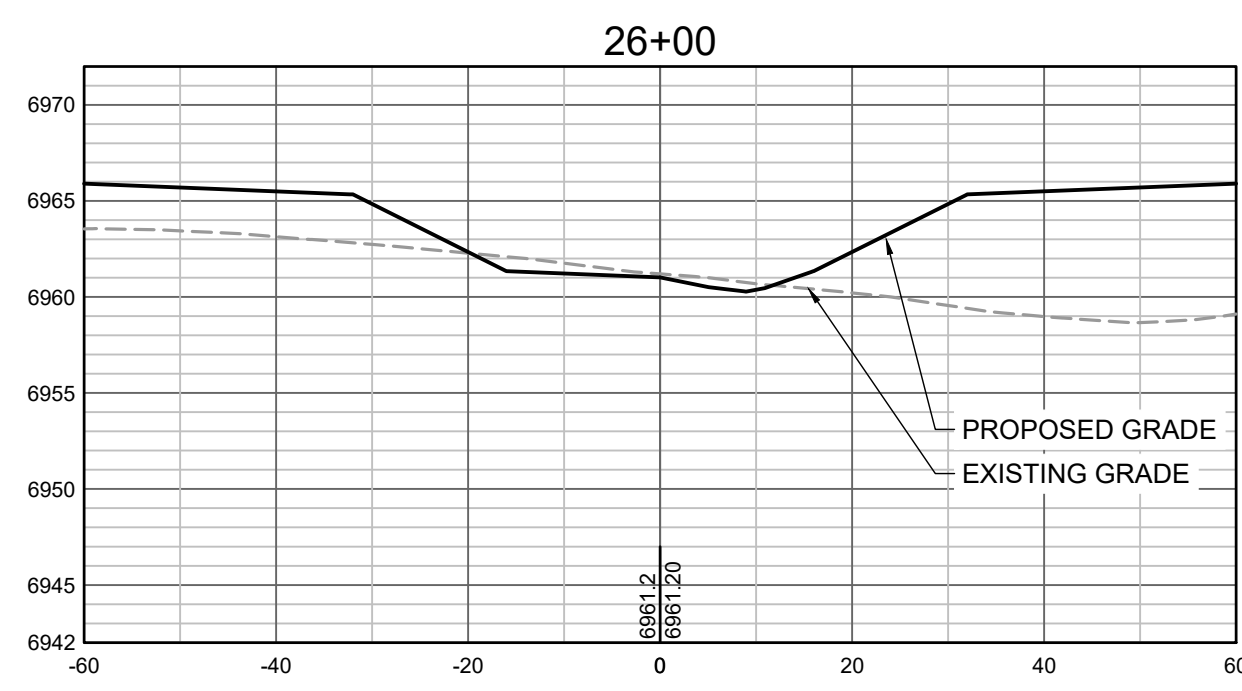
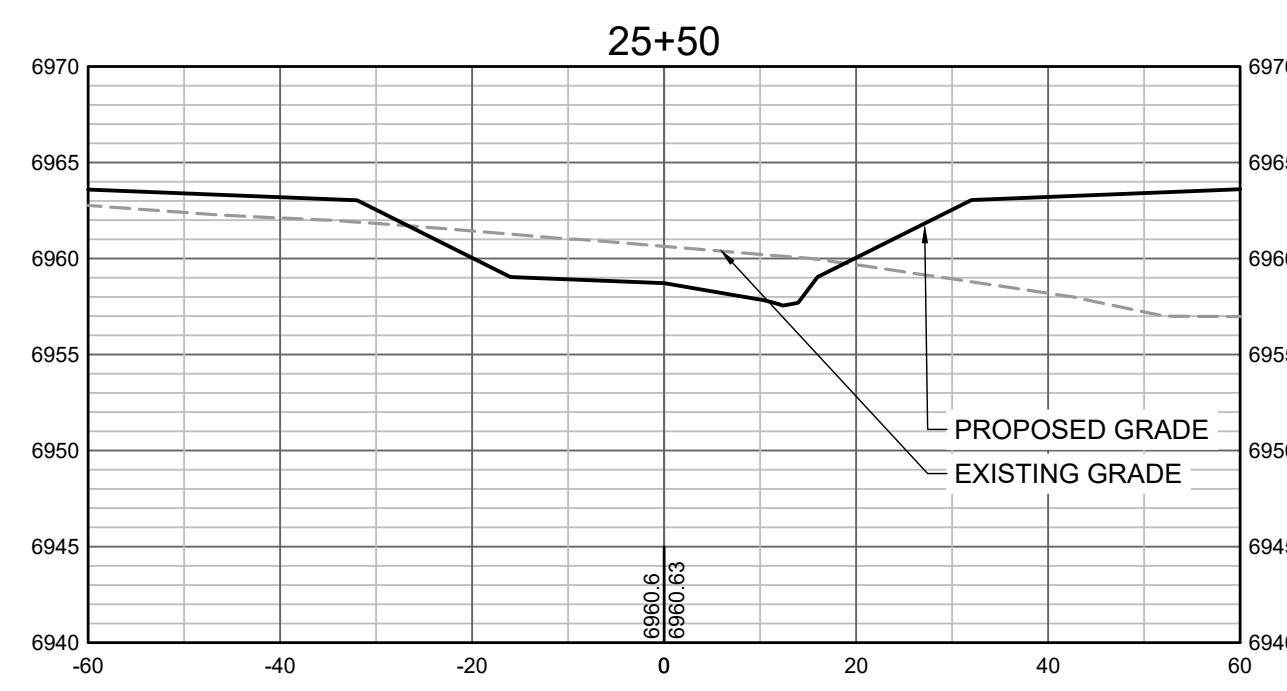
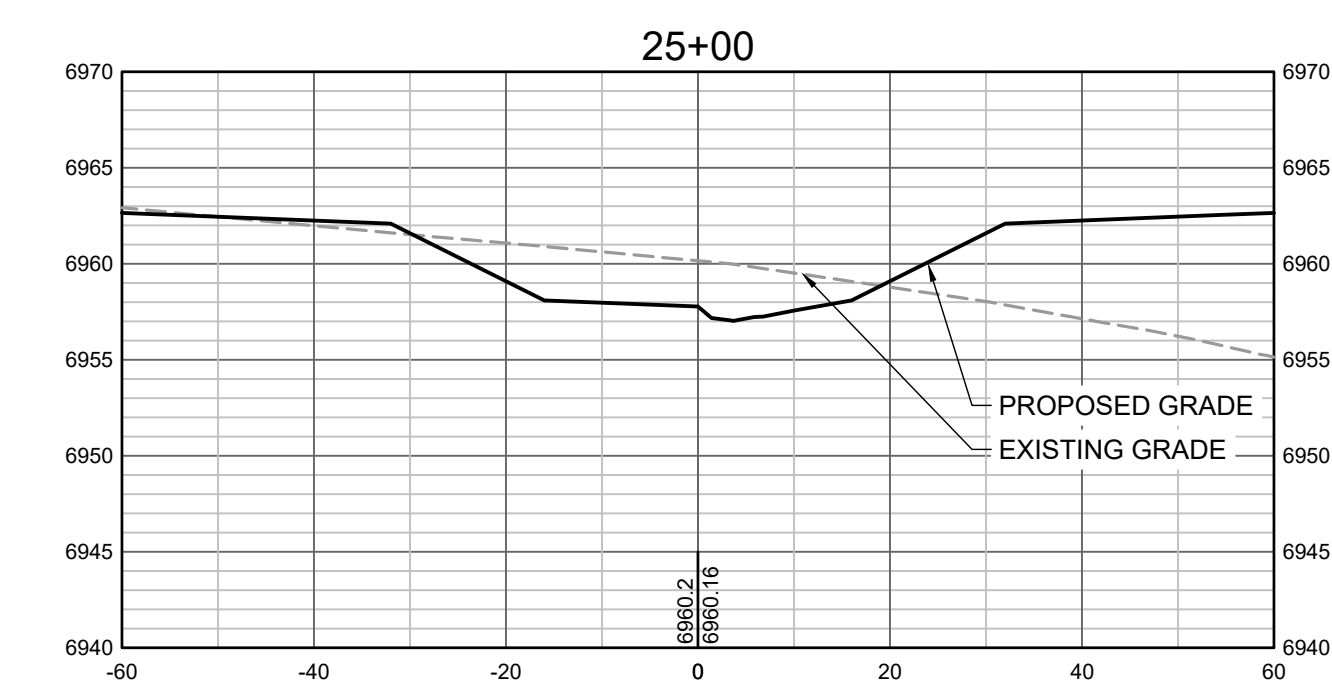
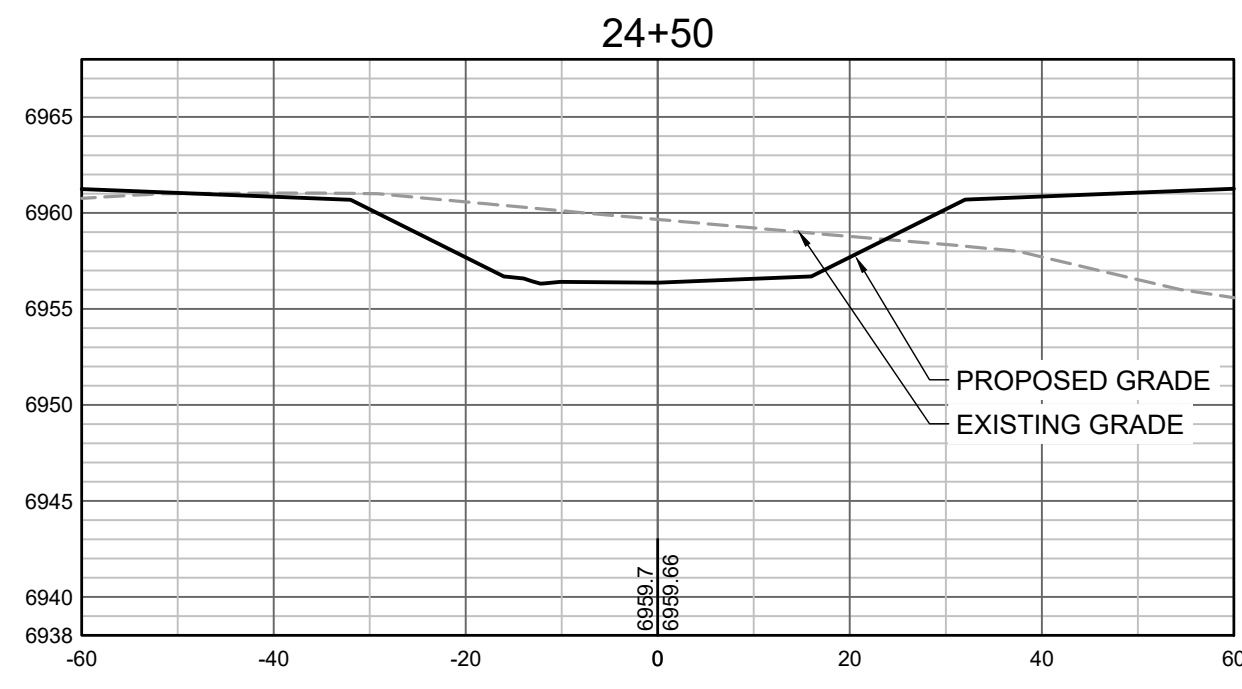
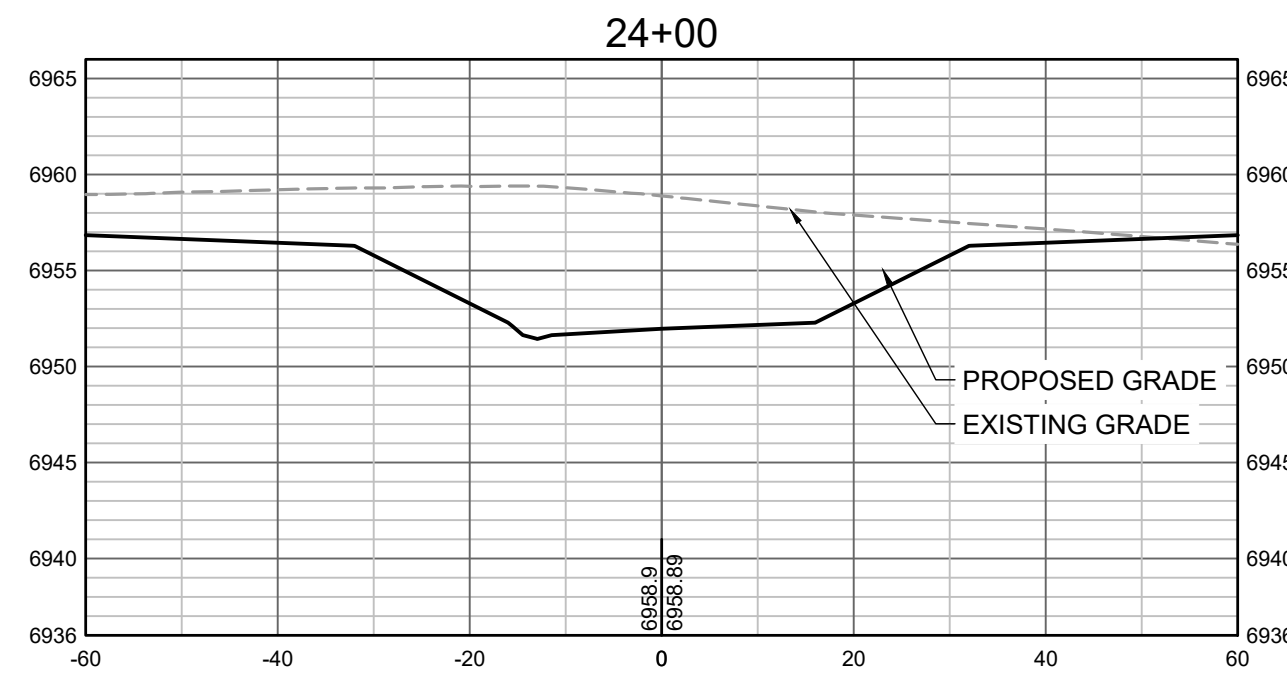
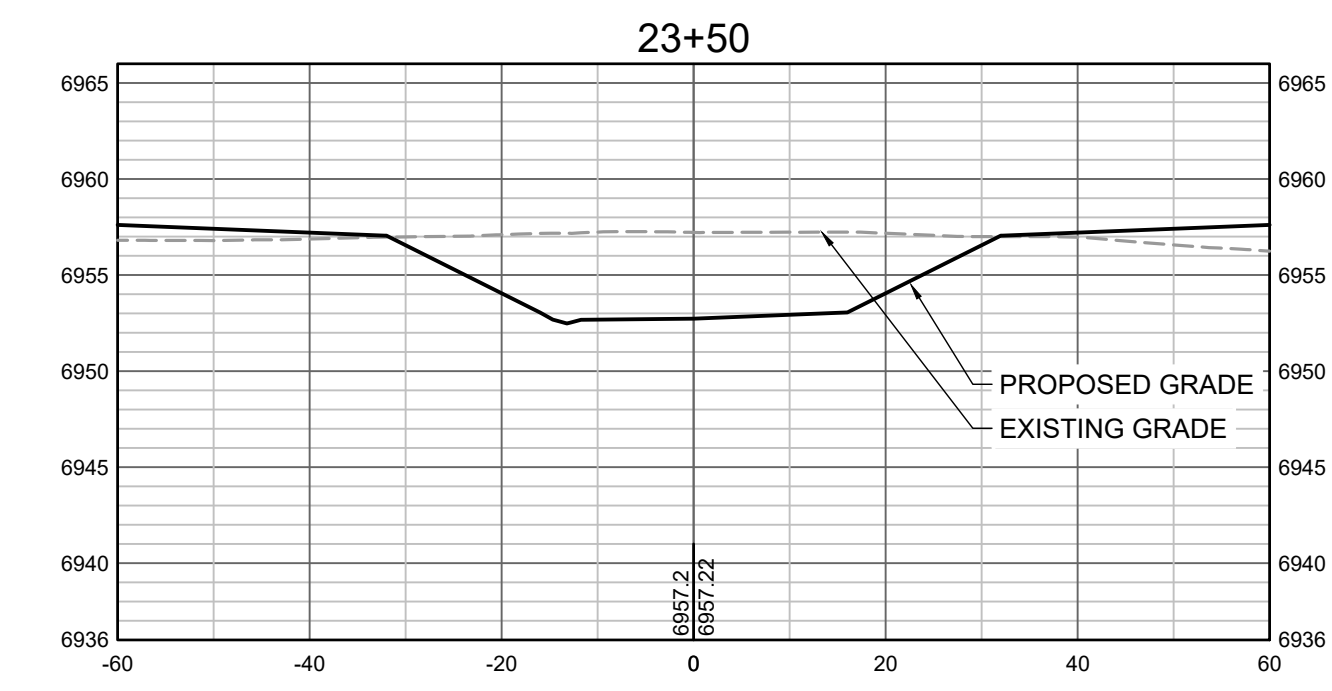
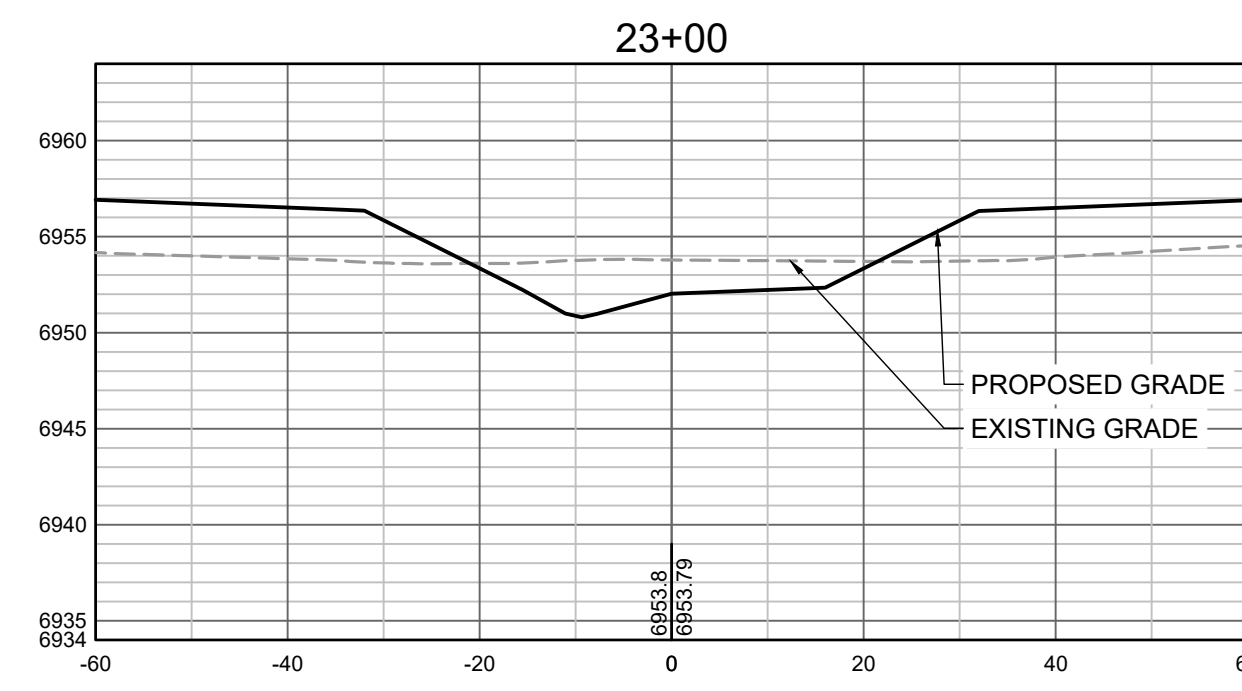
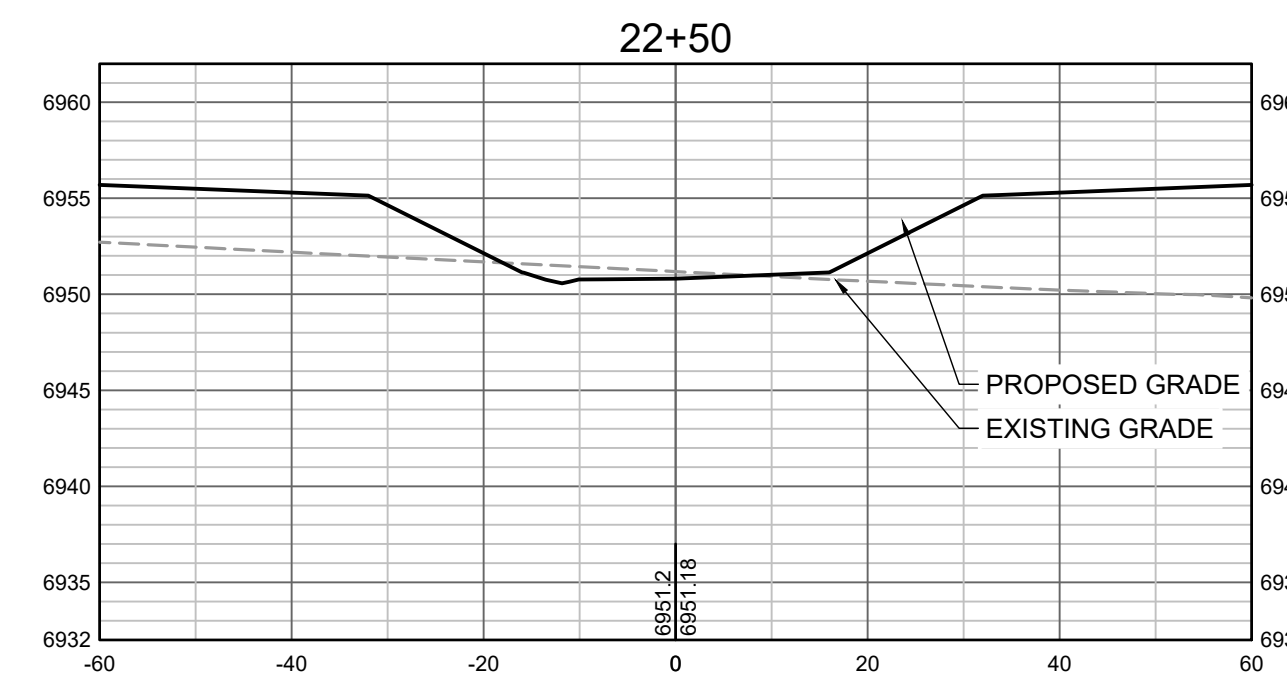
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GRANDVIEW RESERVE
DR HORTON
 FALCON, COLORADO

GRANDVIEW METRO DISTRICT
 CROSS SECTIONS

SHEET NO.
CS5 21



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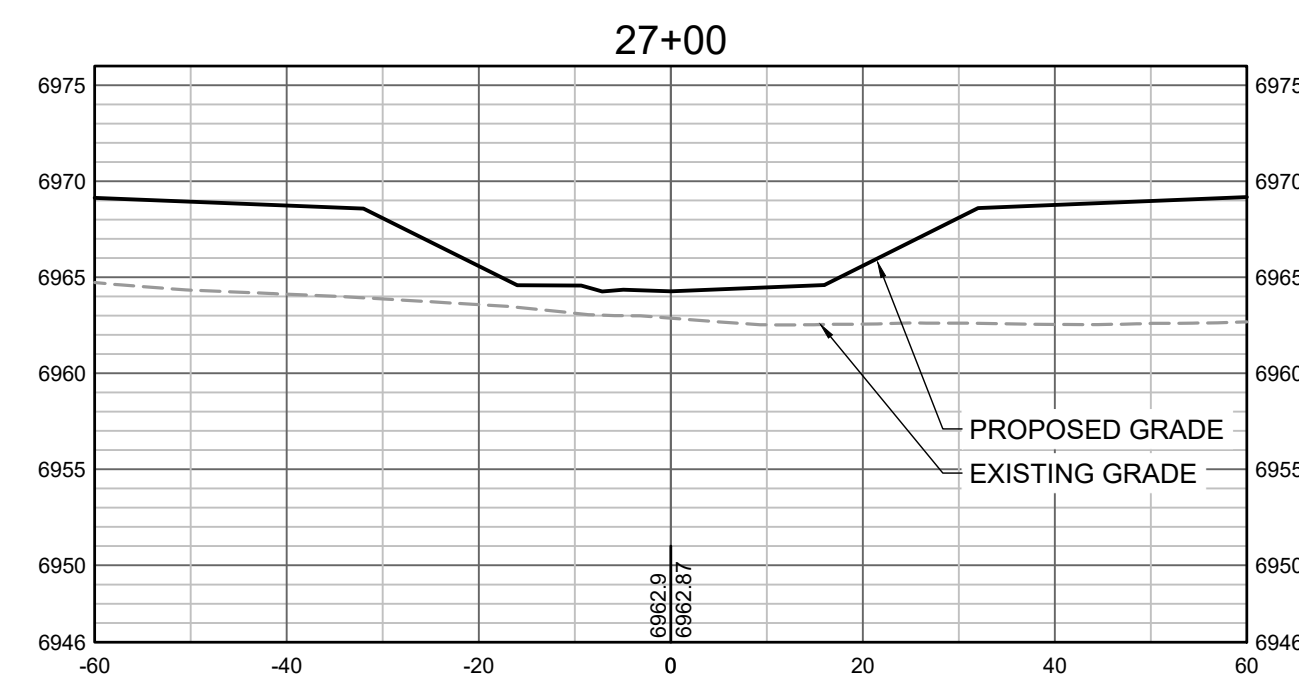


GRANDVIEW RESERVE
 DR HORTON
 FALCON, COLORADO

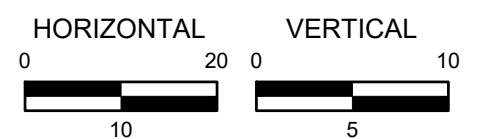
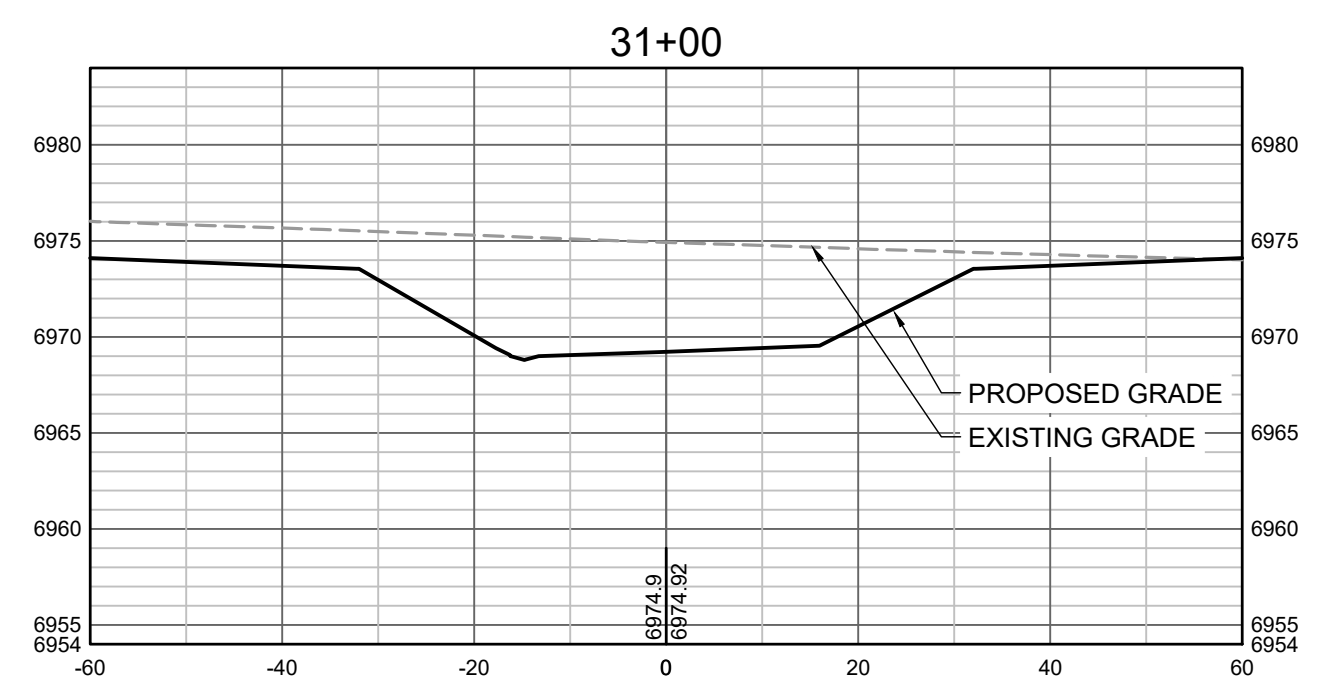
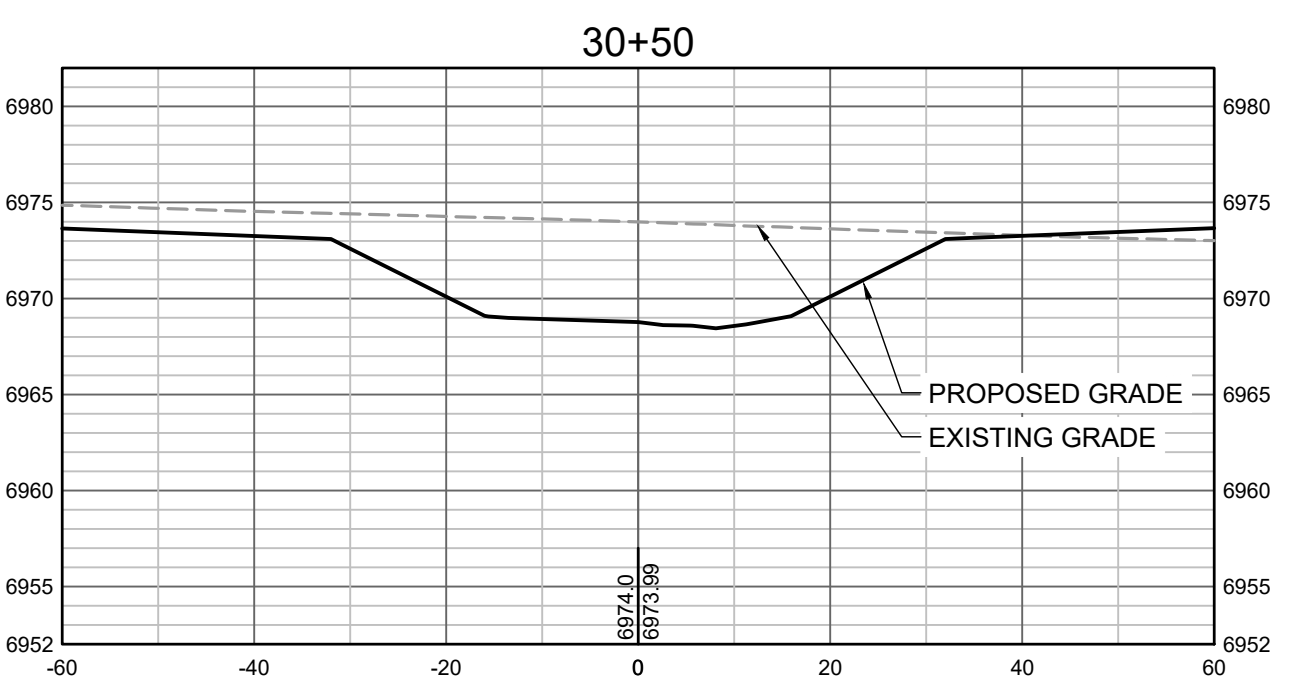
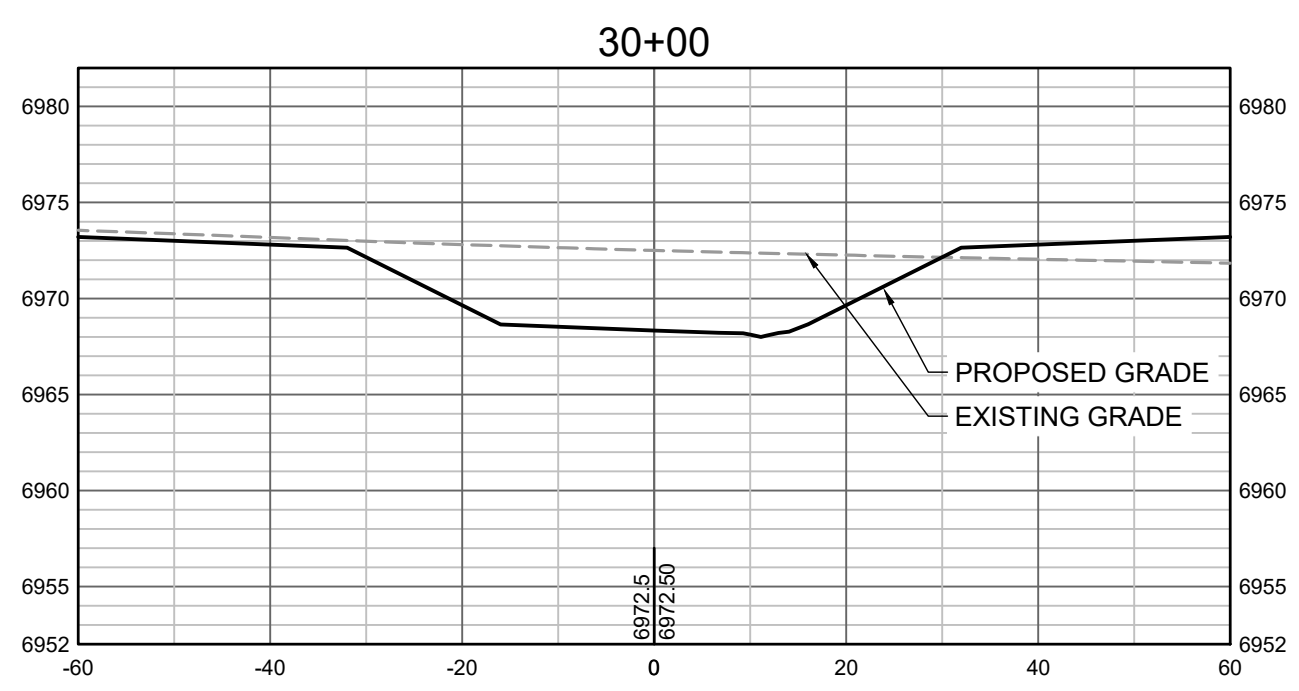
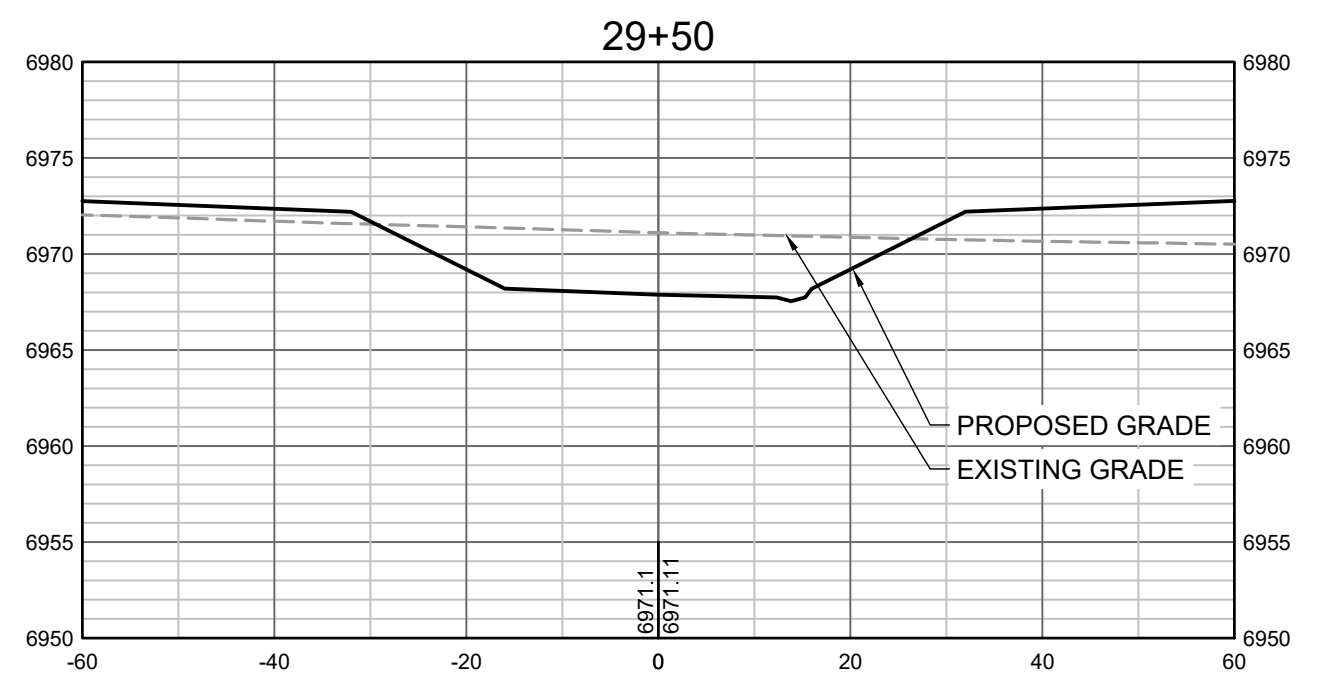
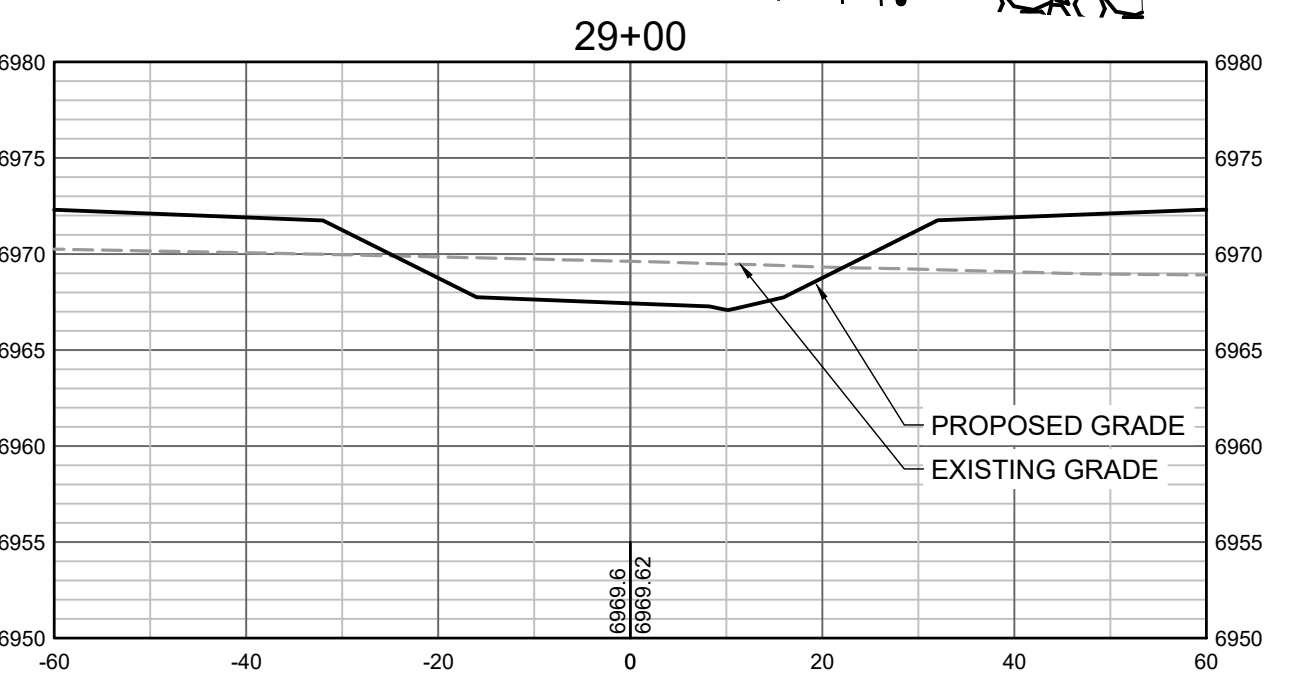
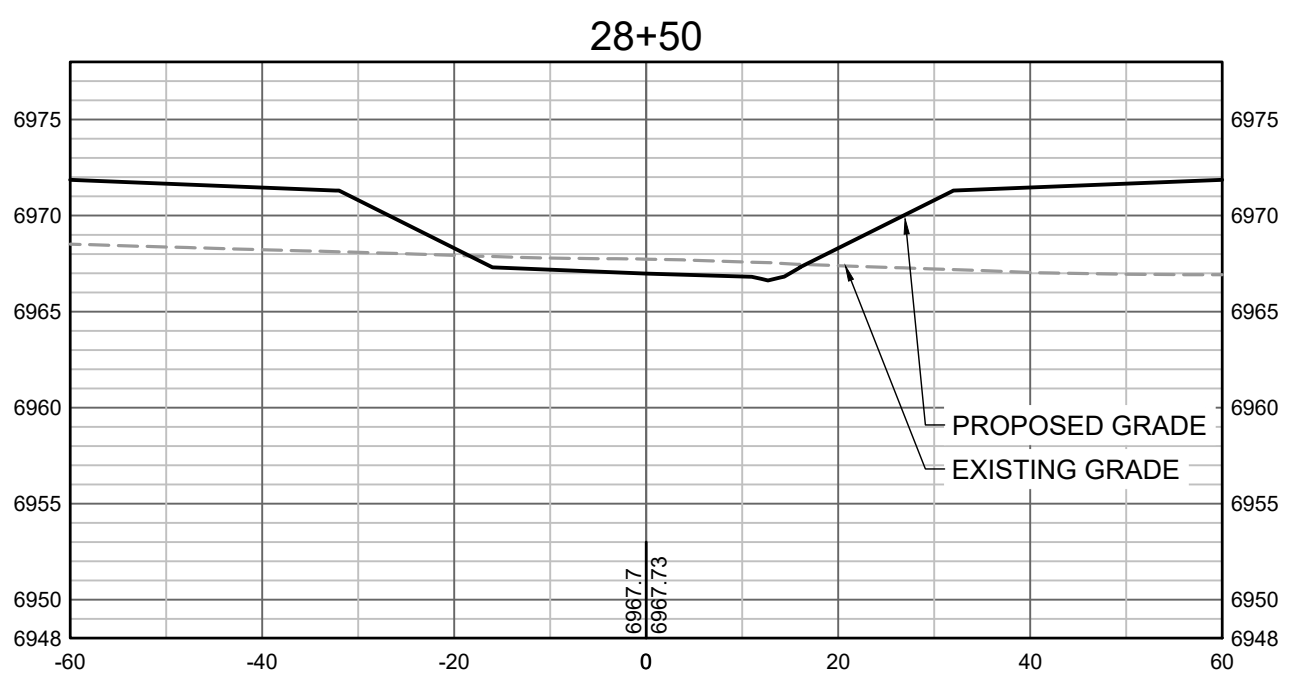
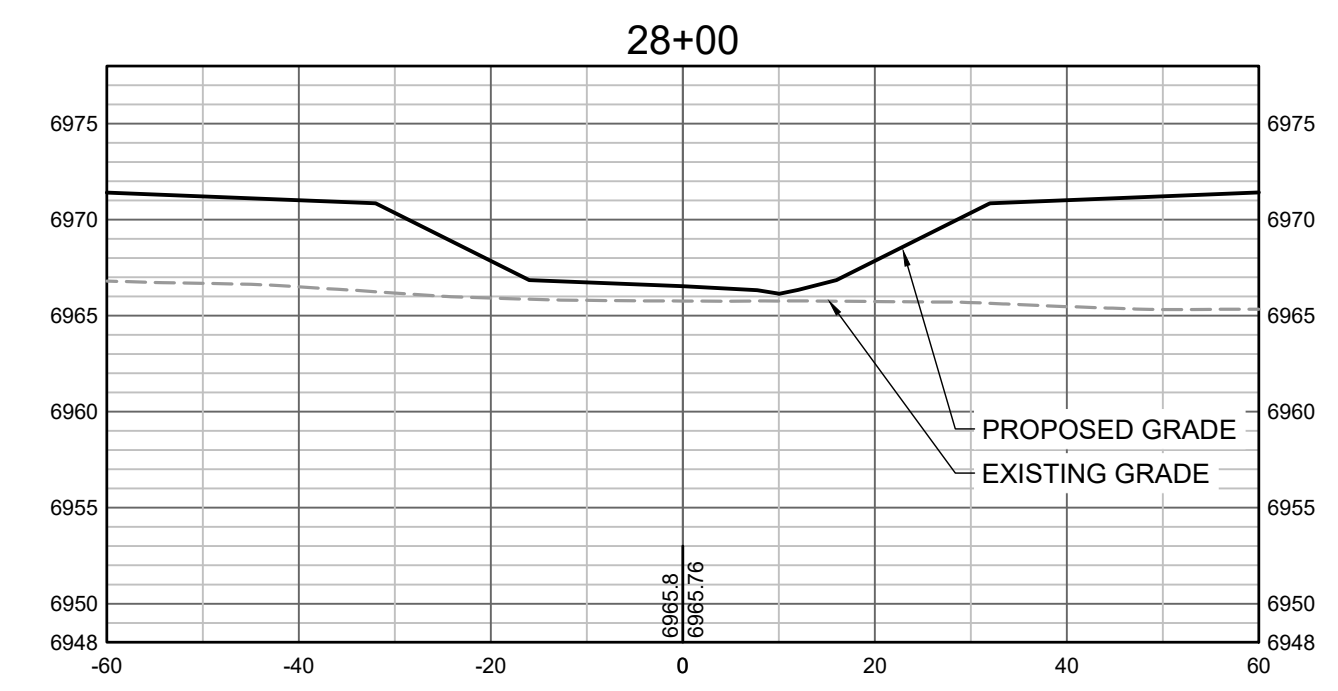
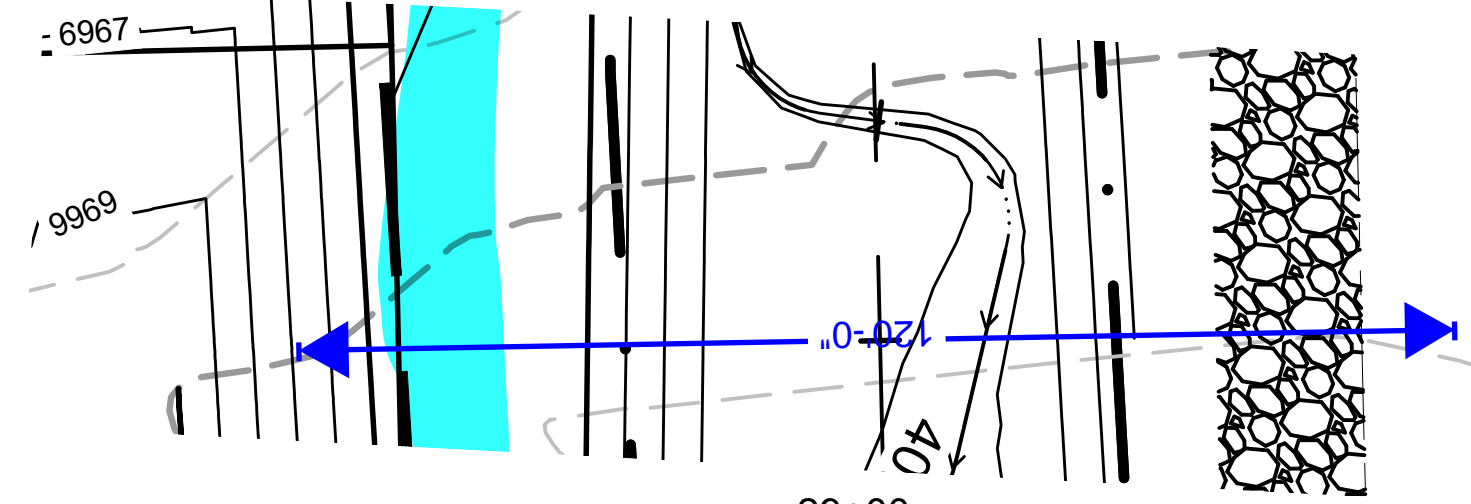
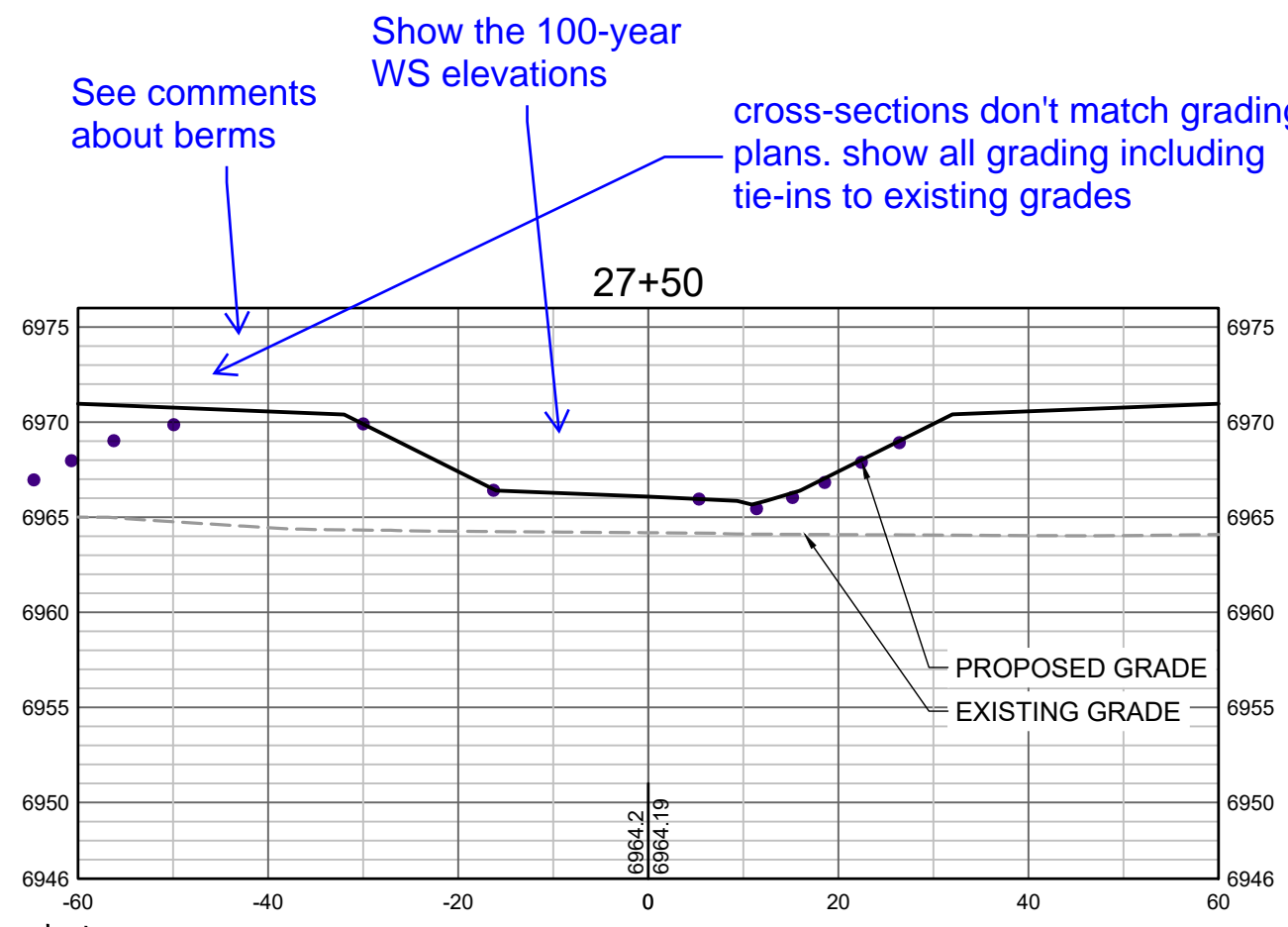
GRANDVIEW METRO DISTRICT
 CROSS SECTIONS

SHEET NO.
 CS6 22

HR GREEN Xrefs: xref1.dwg



Verify that all CLOMR cross-sections match these and all of these match proposed grading



HR GREEN Xrefs: xgs-dh01

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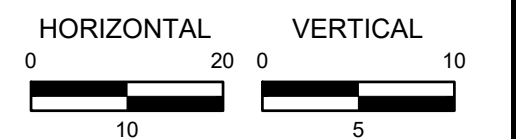
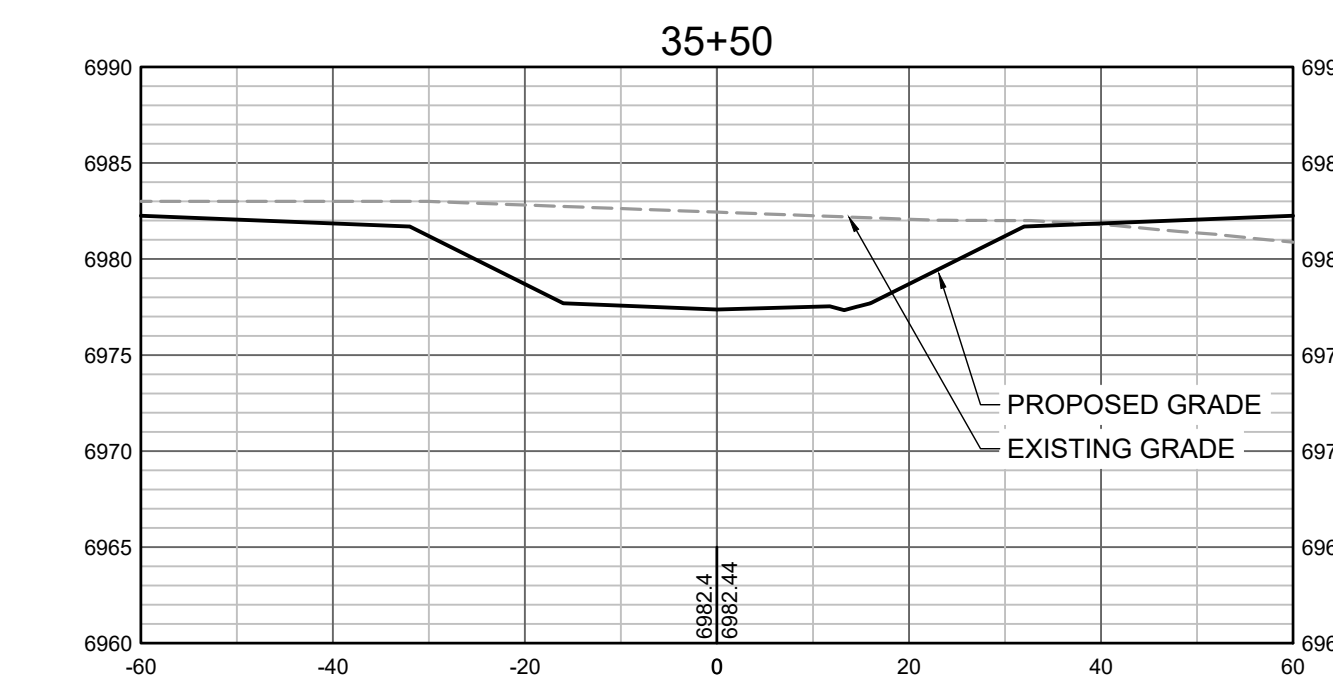
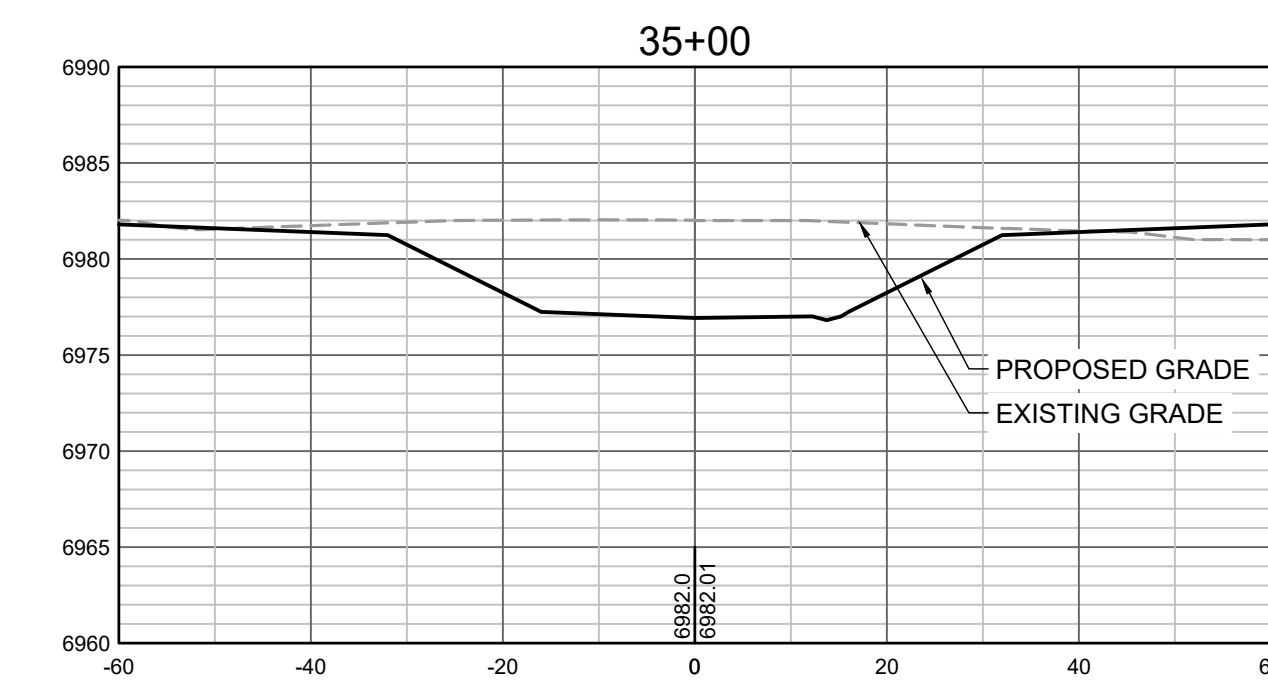
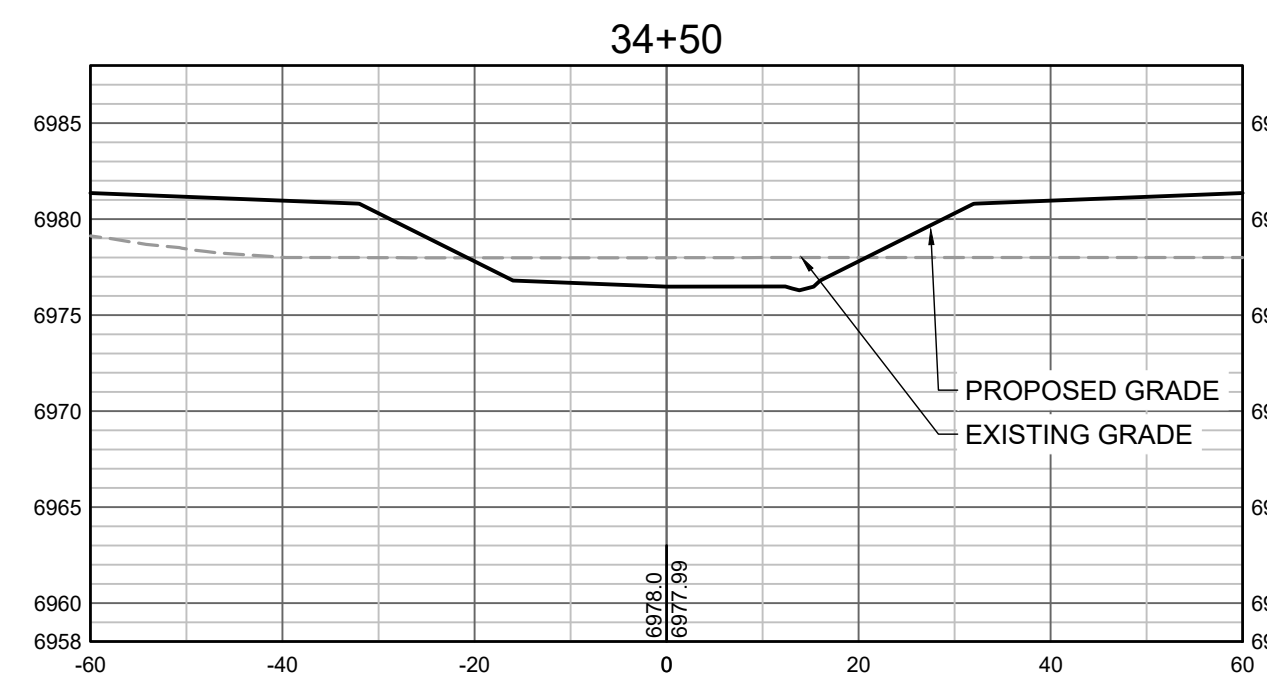
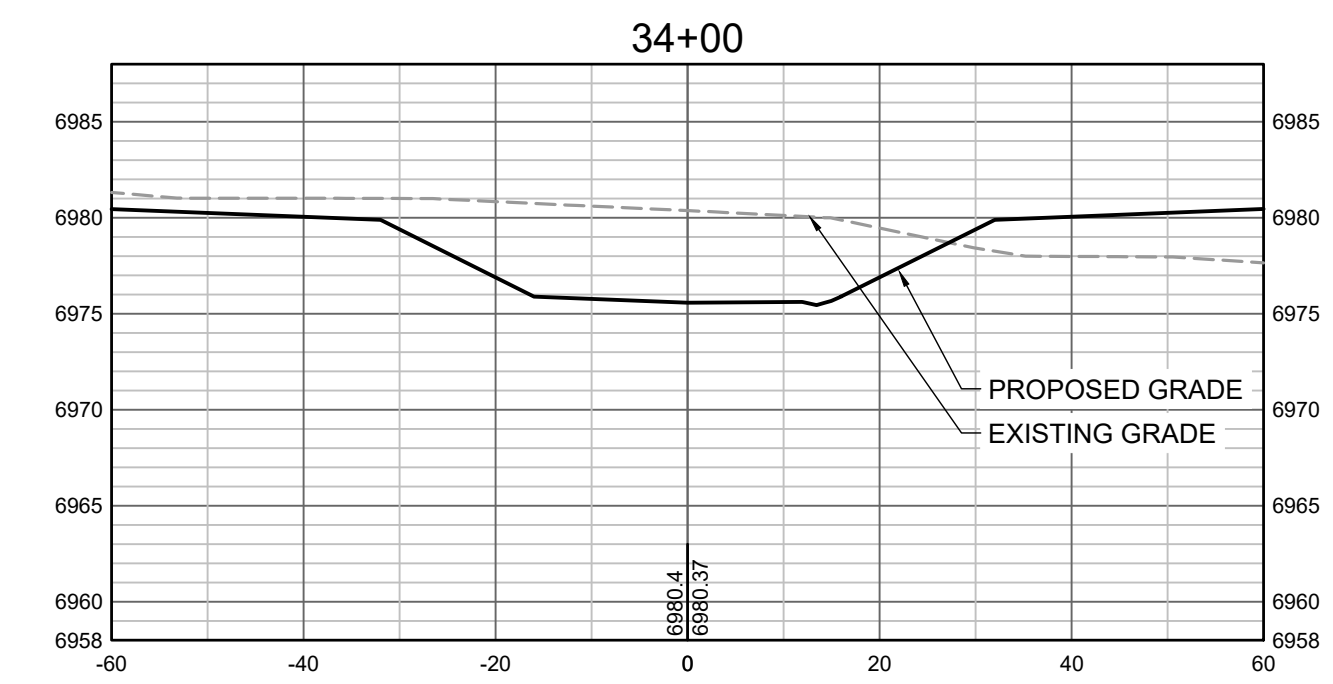
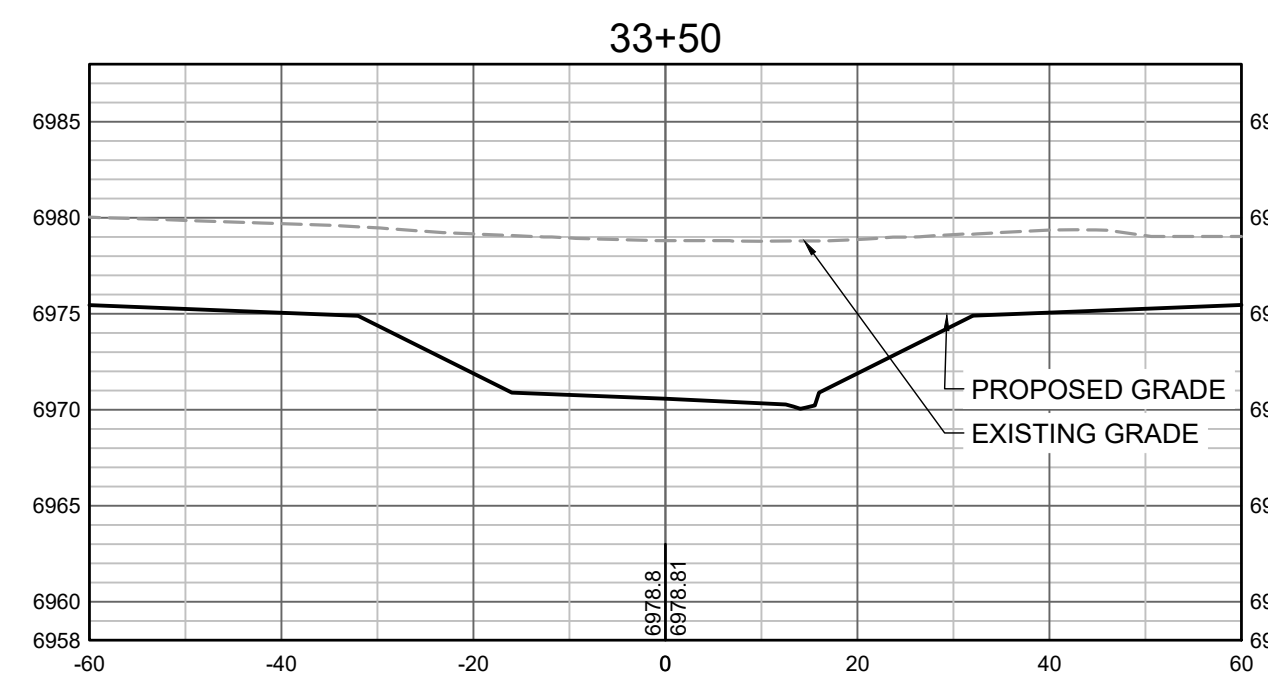
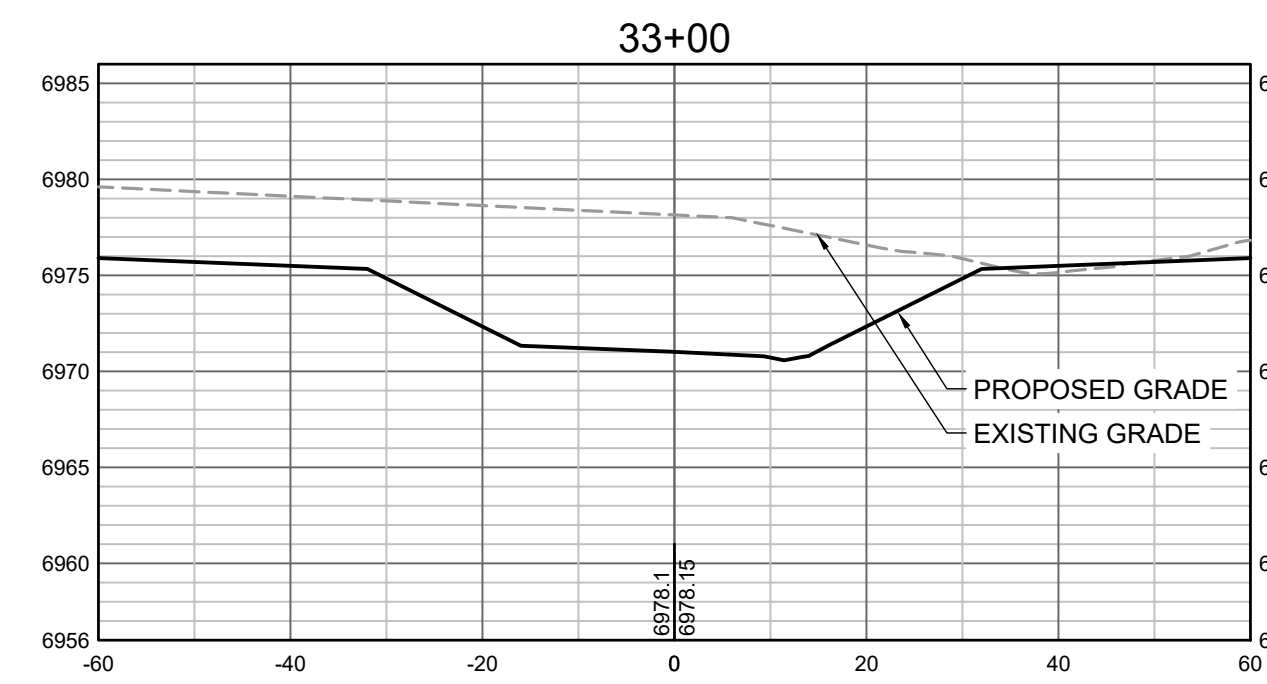
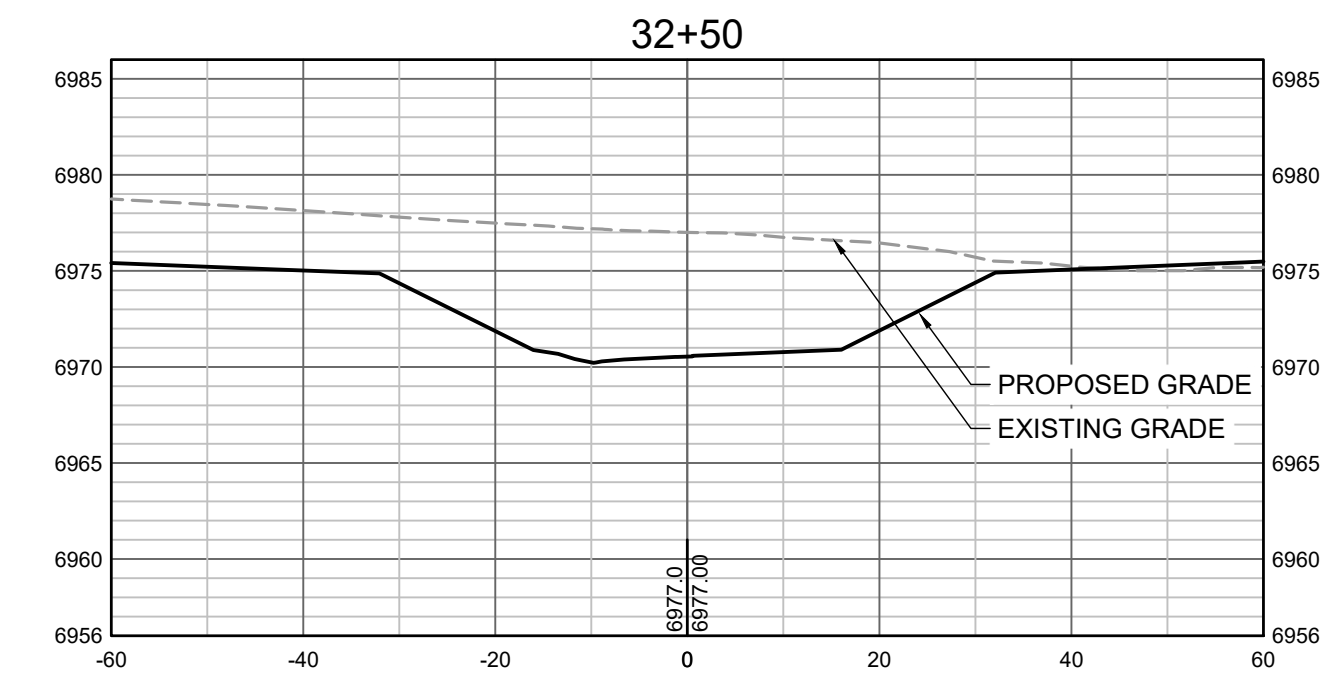
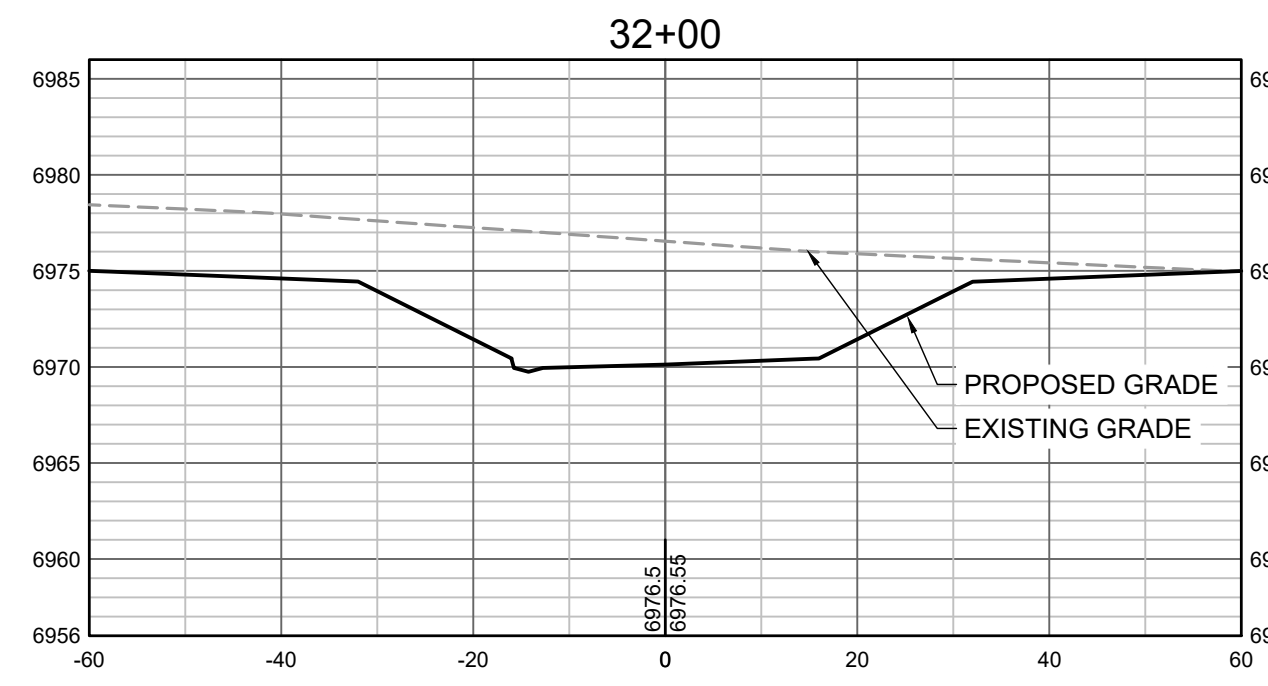
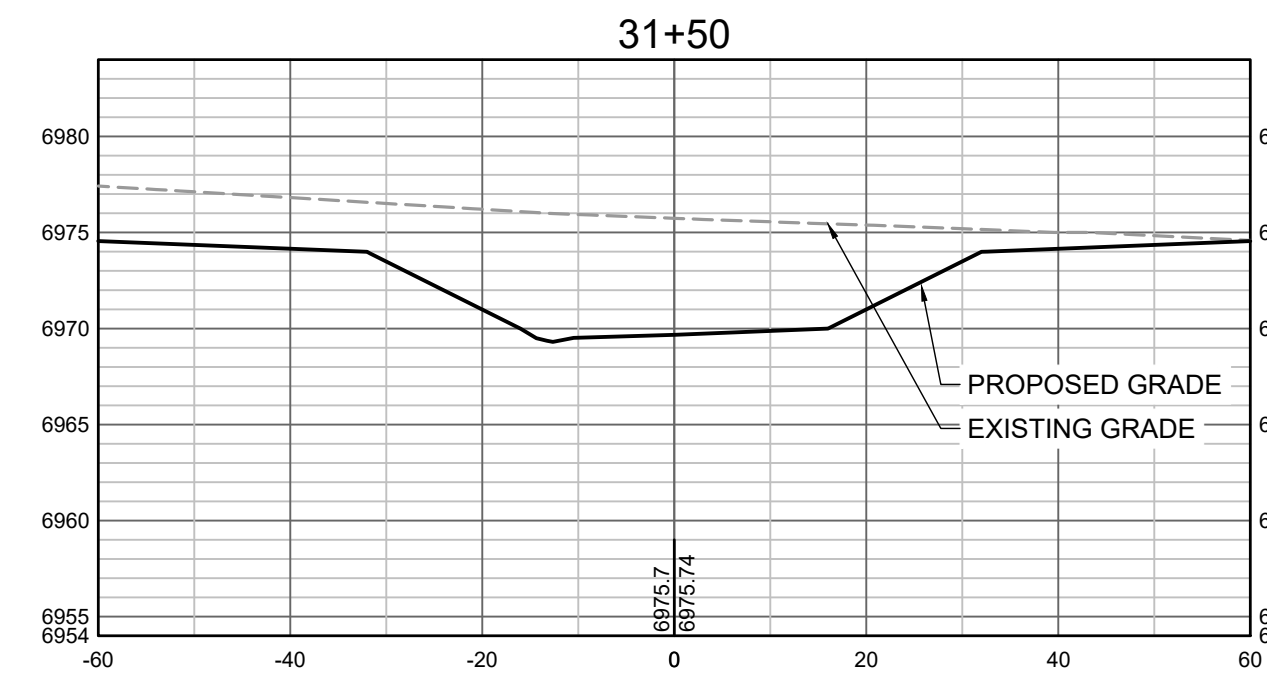
NO.	DATE	BY	REVISION DESCRIPTION



GRANDVIEW RESERVE
 DR HORTON
 FALCON, COLORADO

GRANDVIEW METRO DISTRICT
 CROSS SECTIONS

SHEET NO.
 CS7 23



HR GREEN Xrefs: xgs-1-dh01

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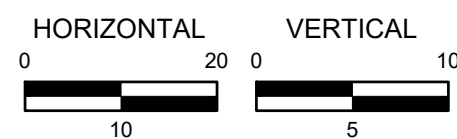
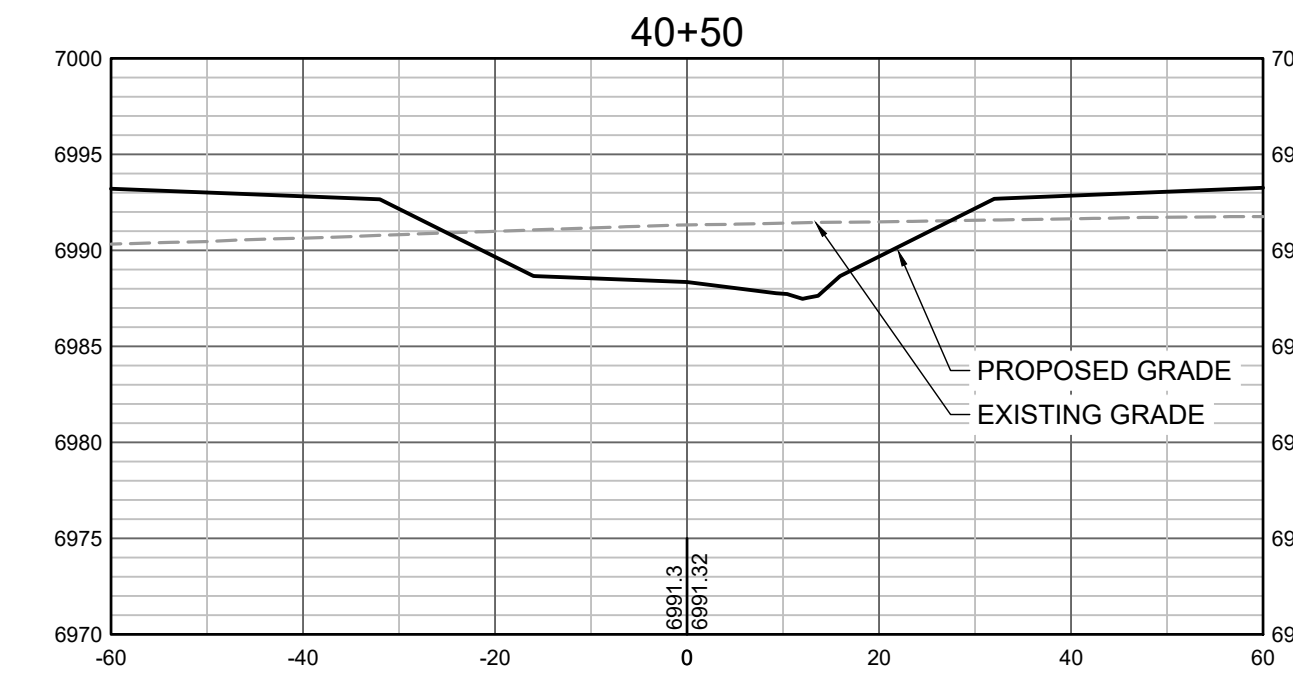
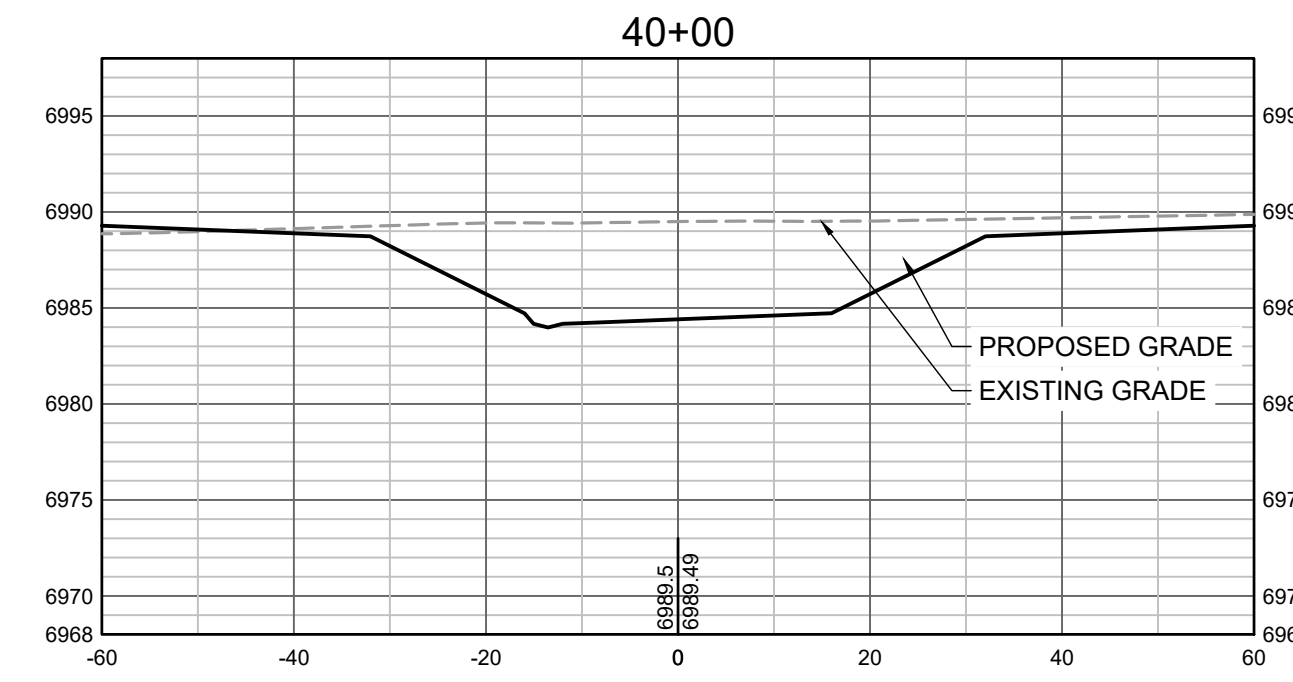
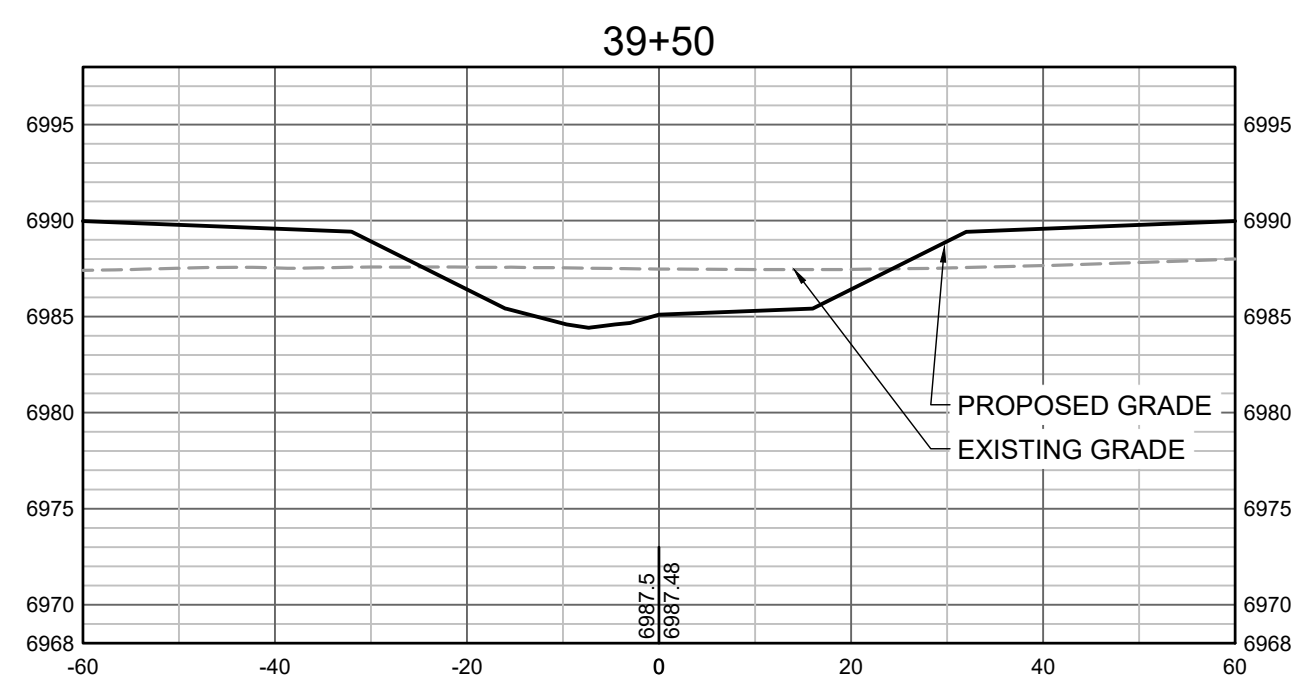
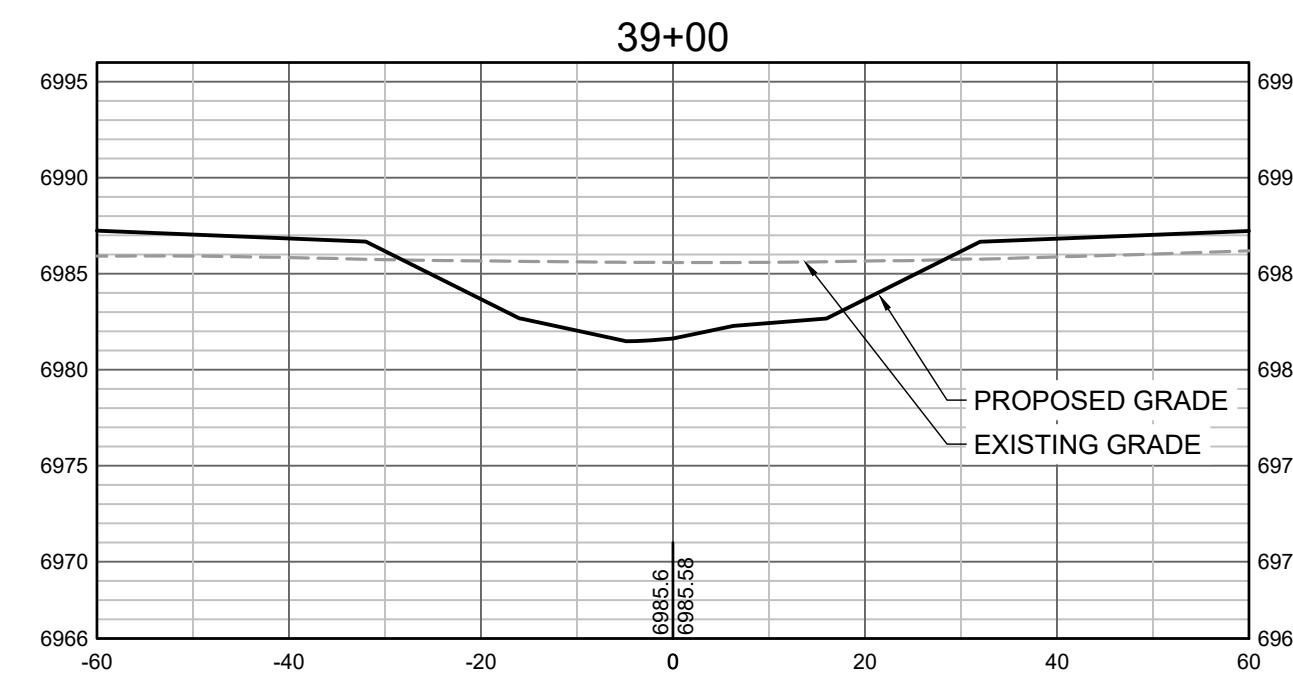
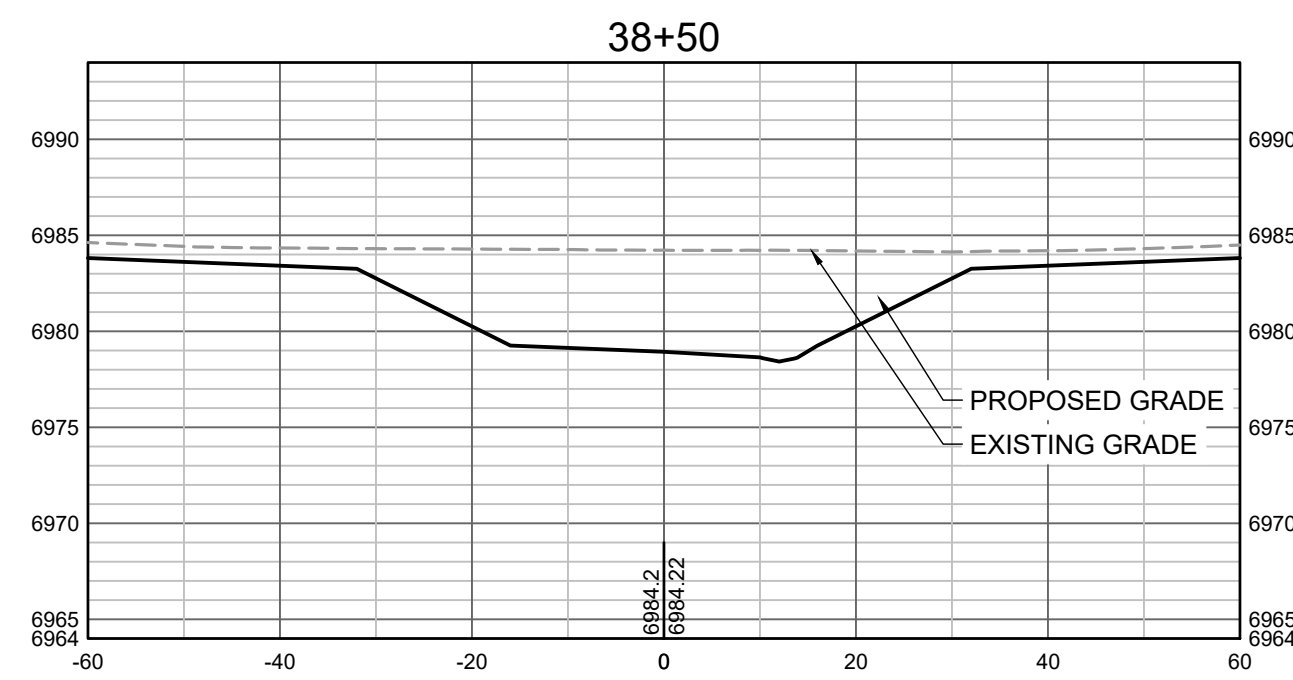
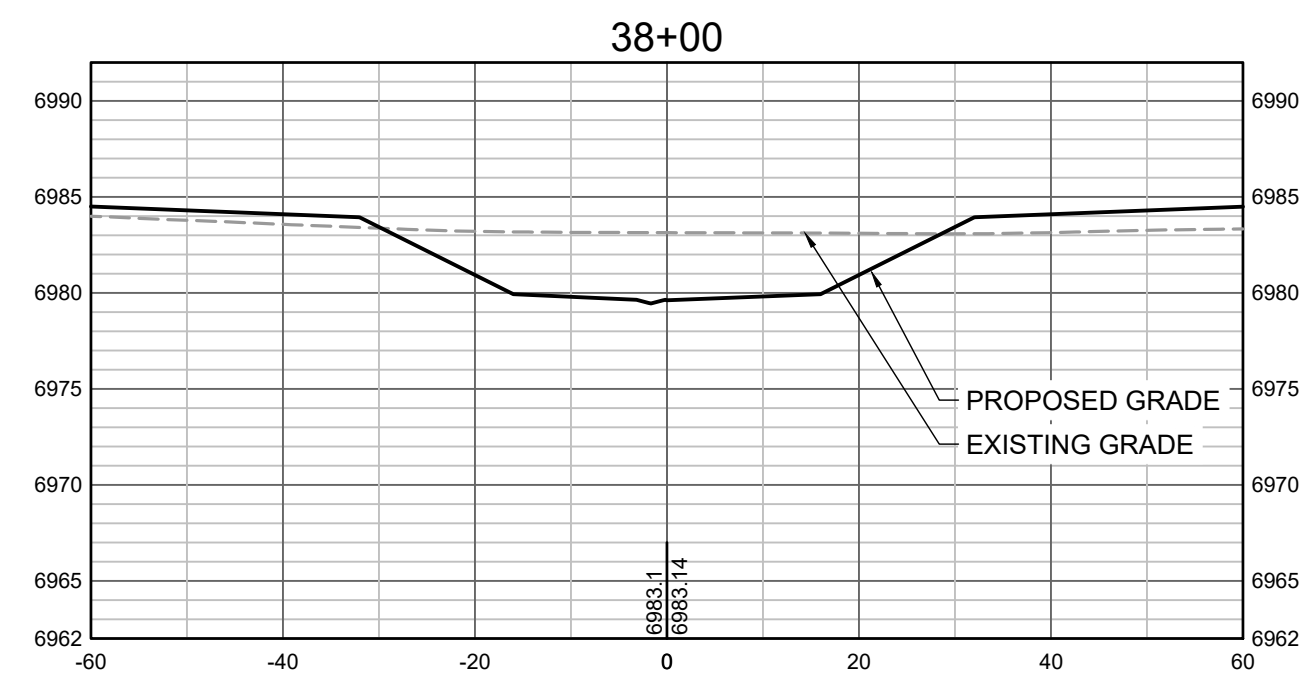
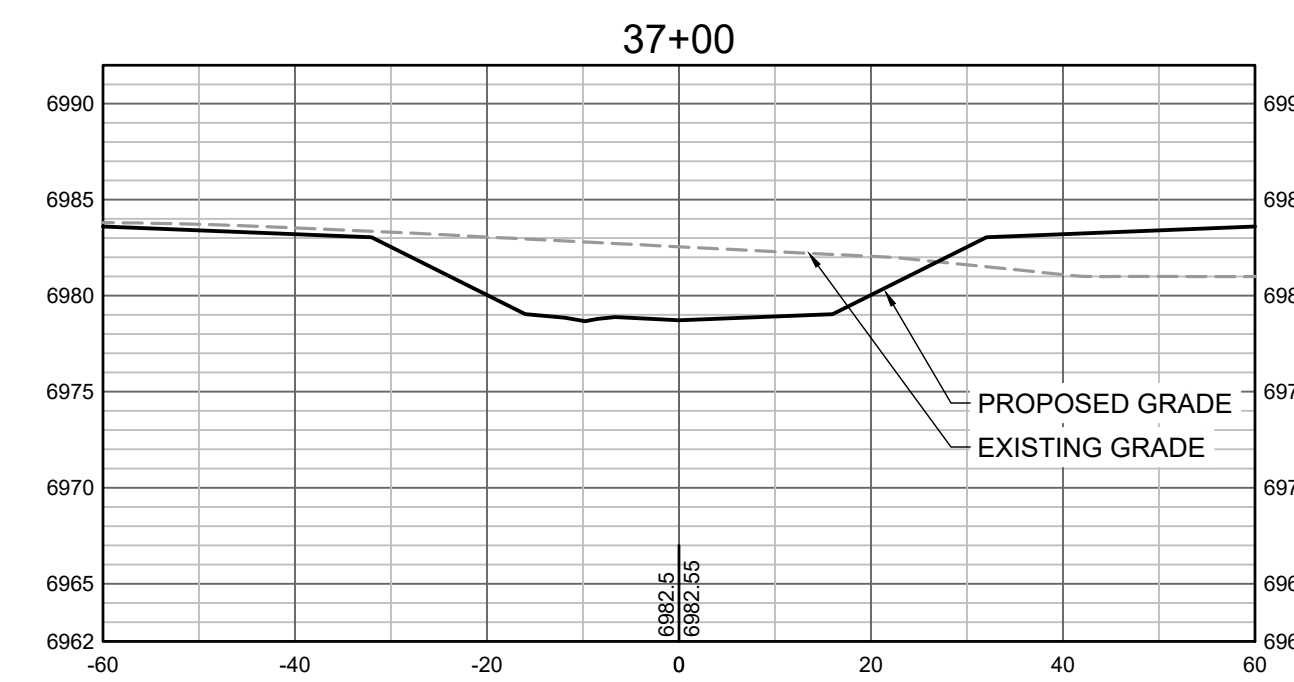
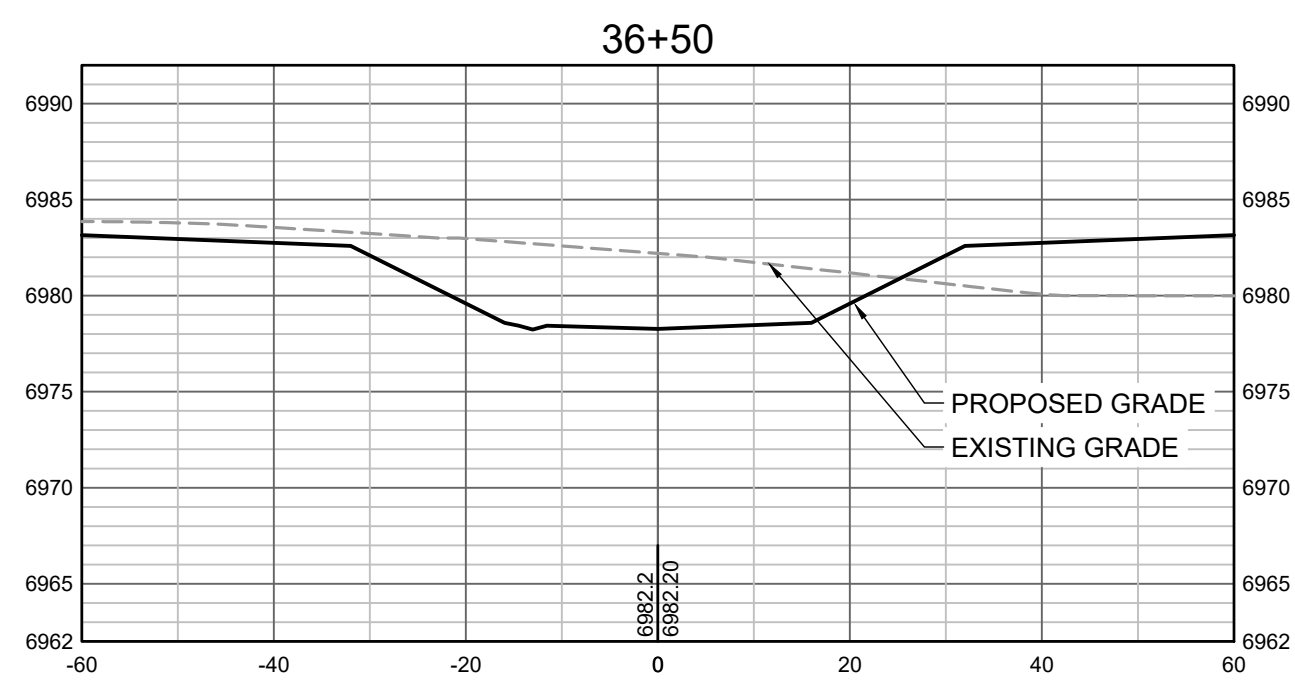
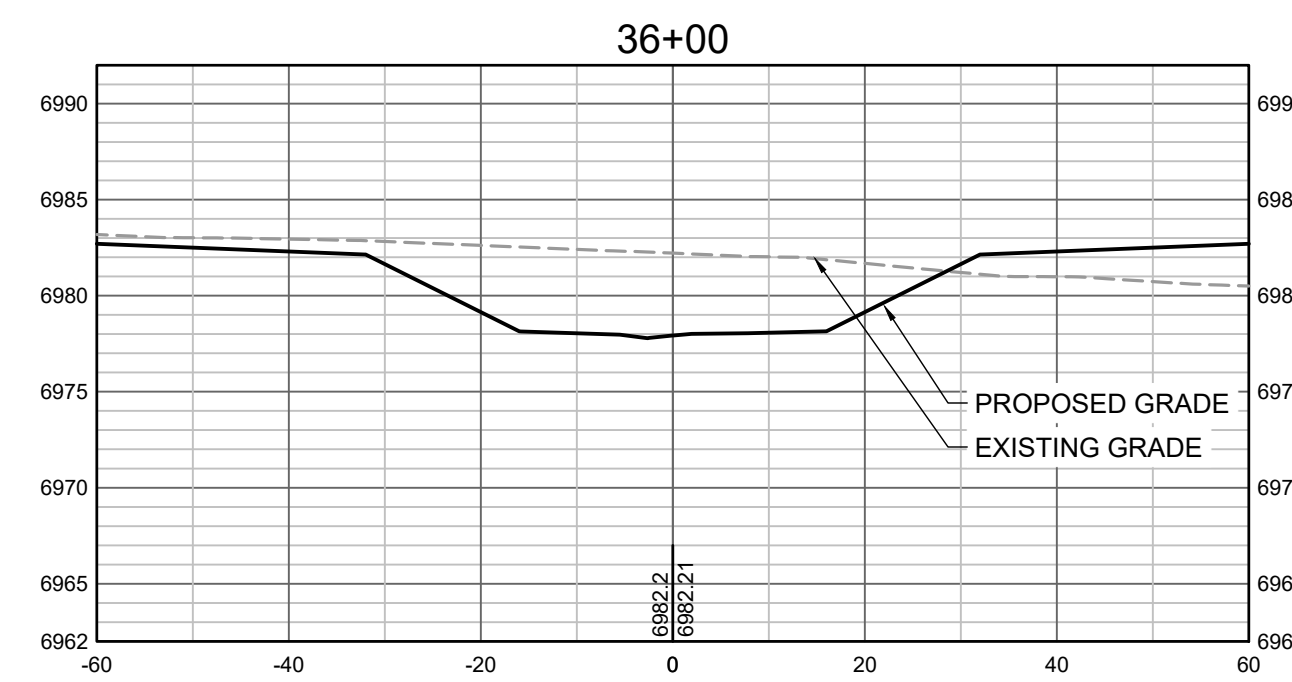
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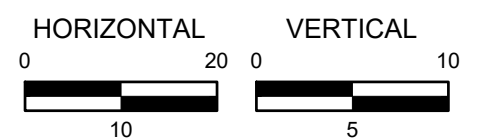
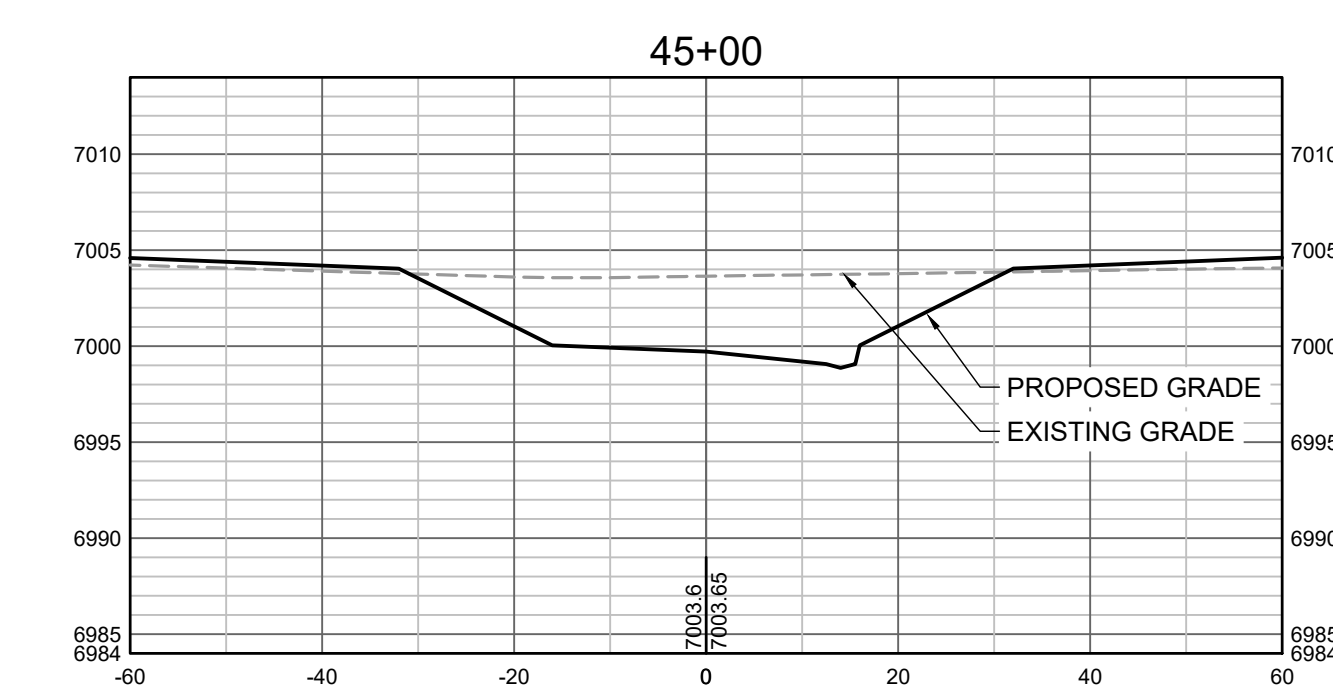
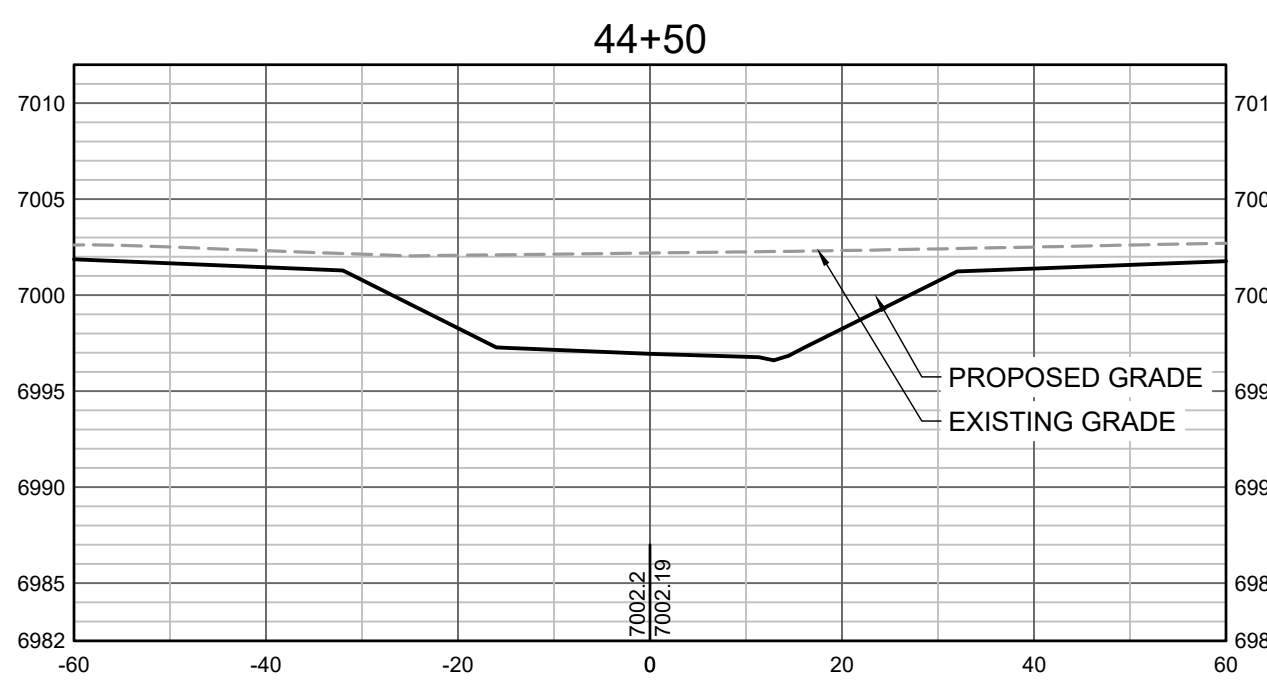
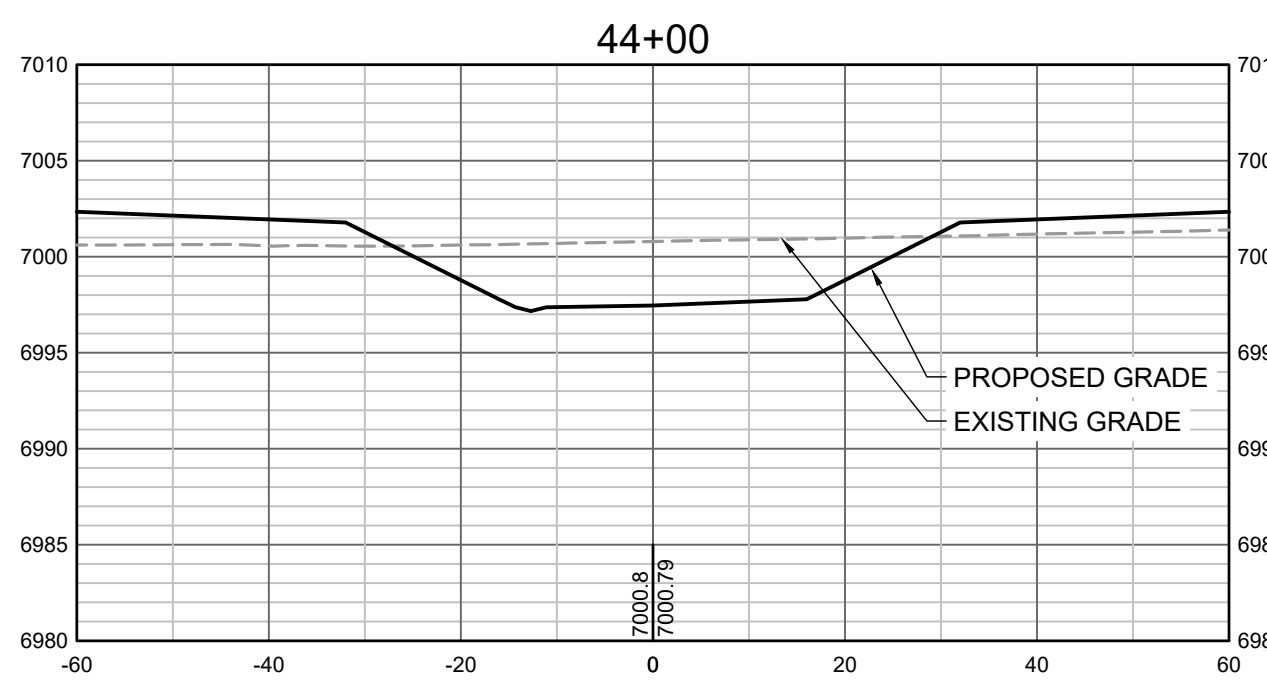
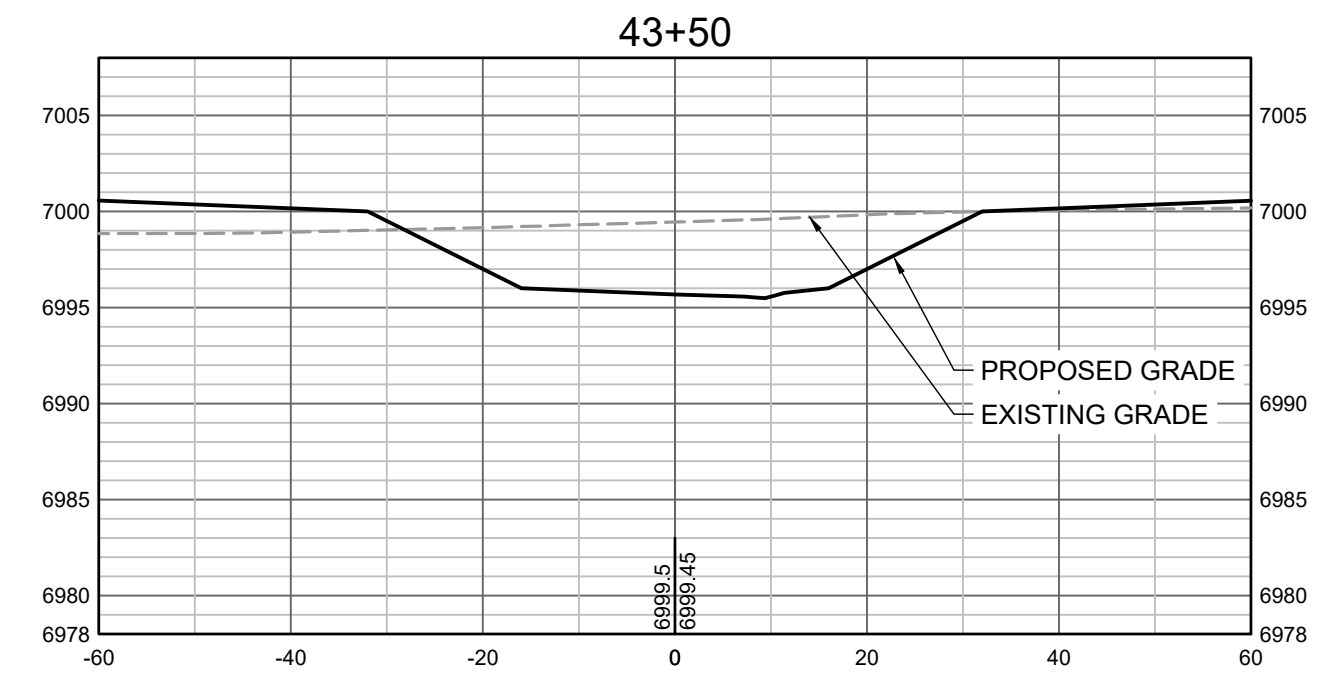
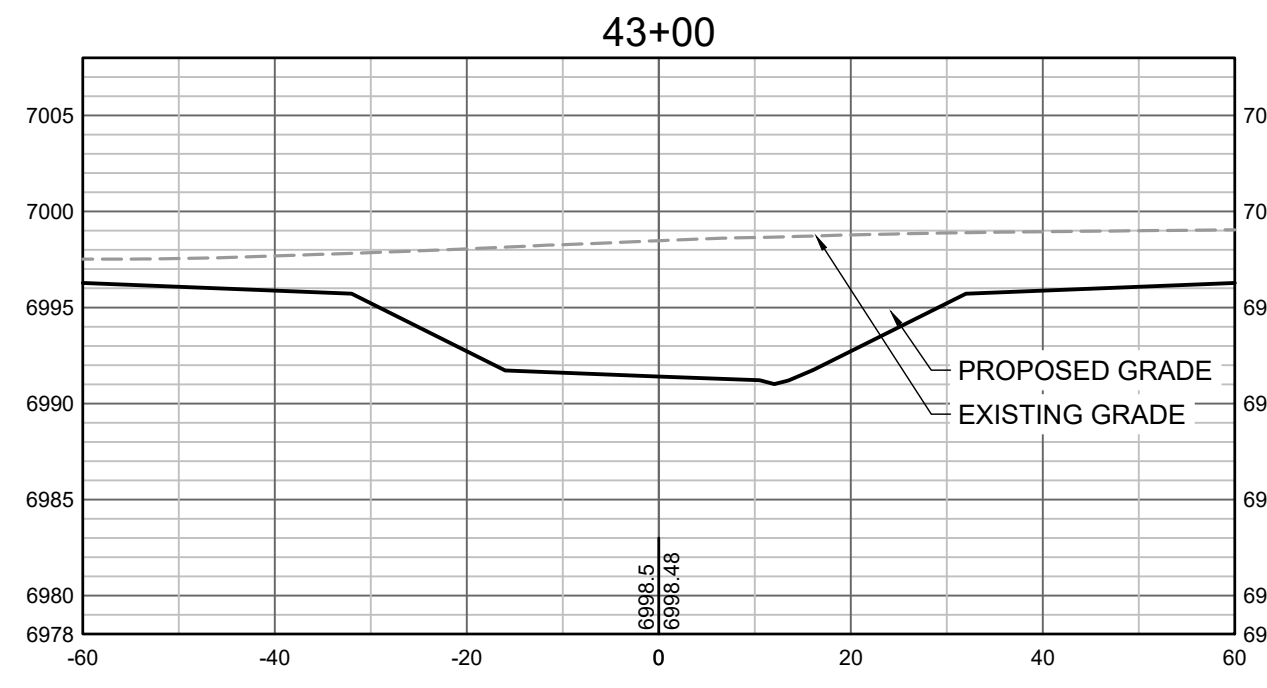
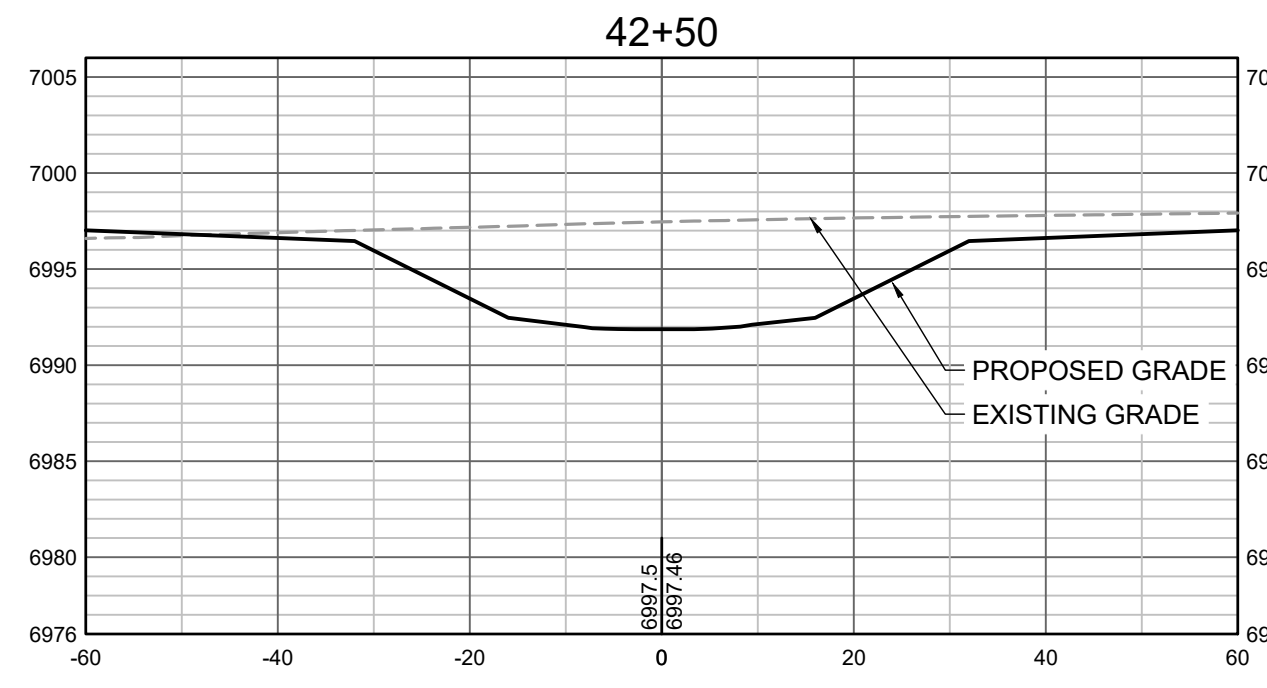
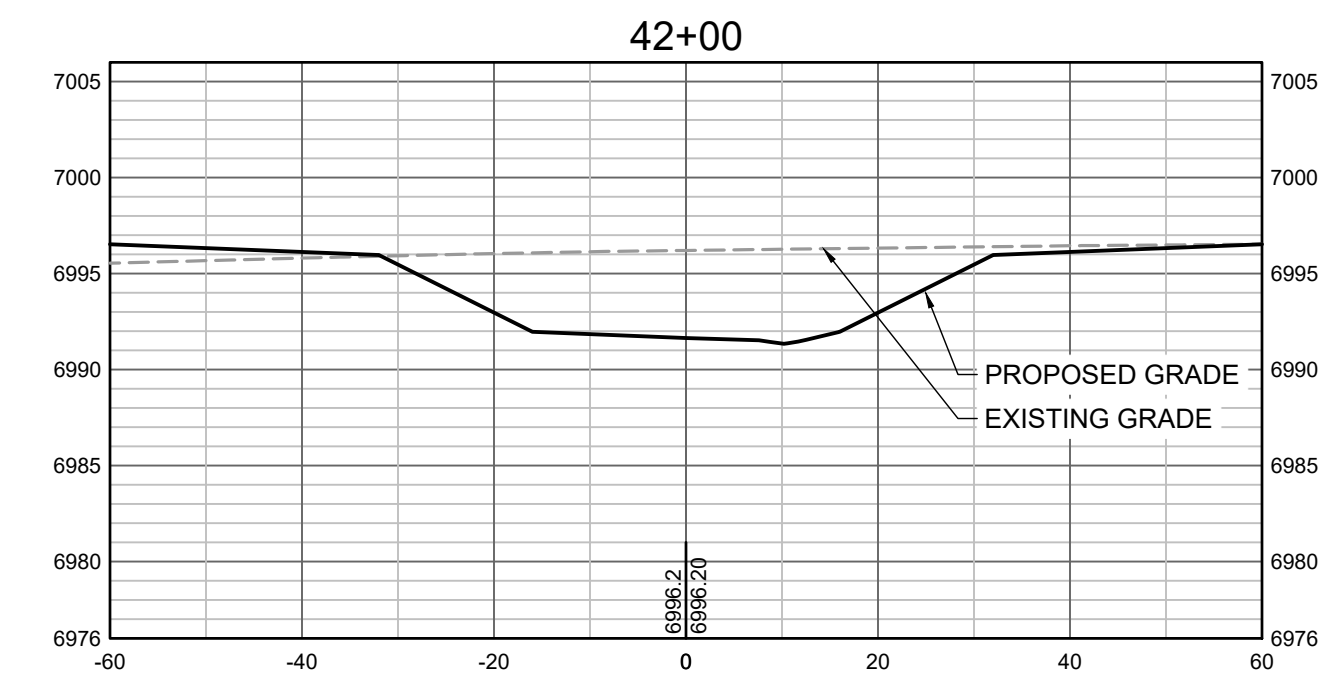
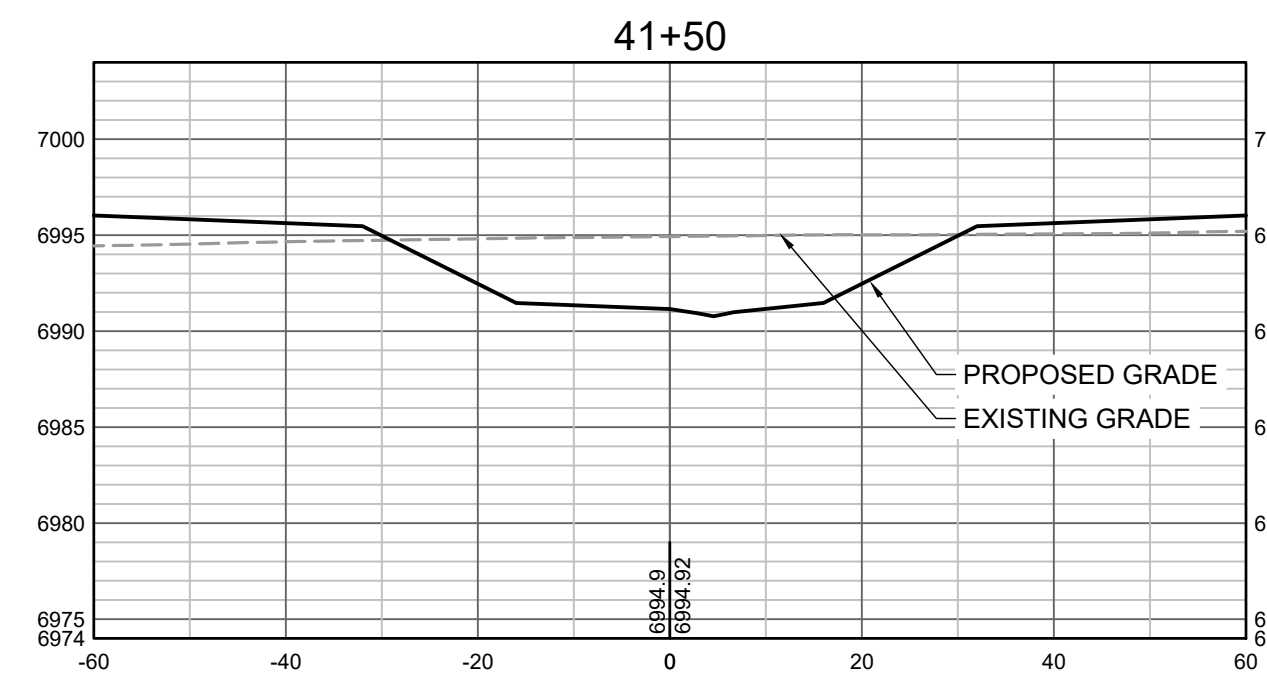
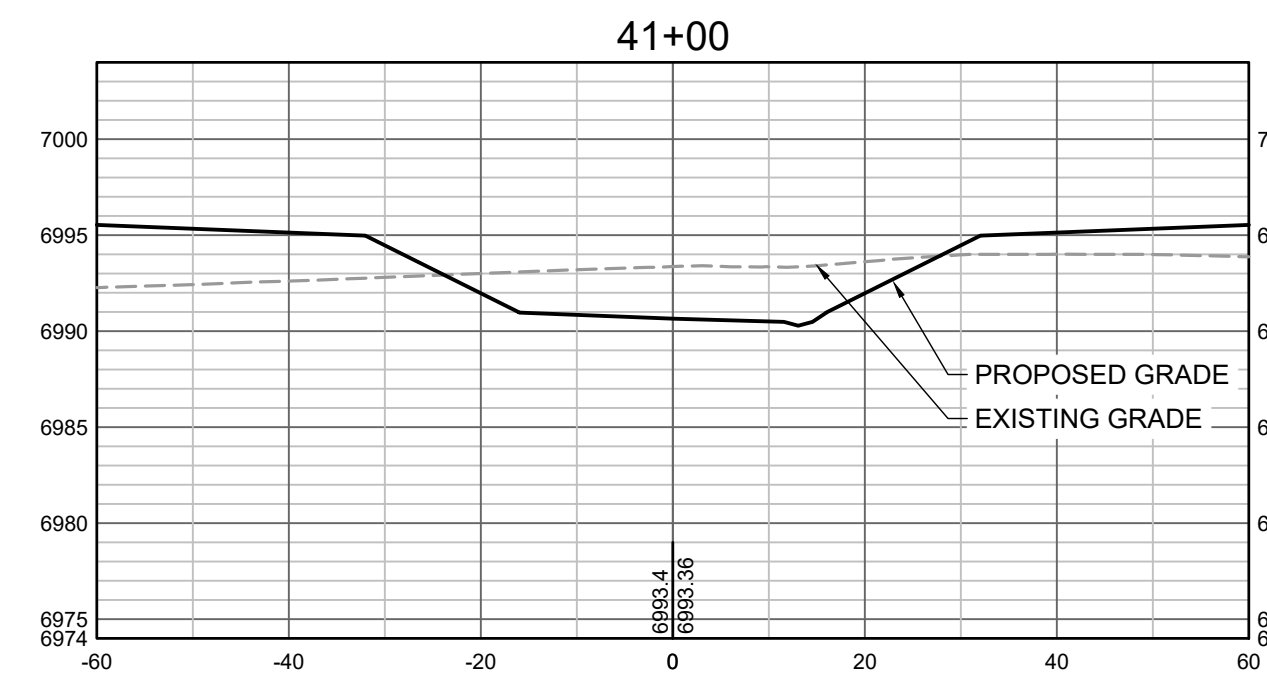


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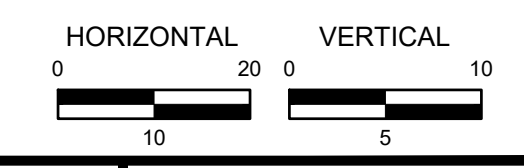
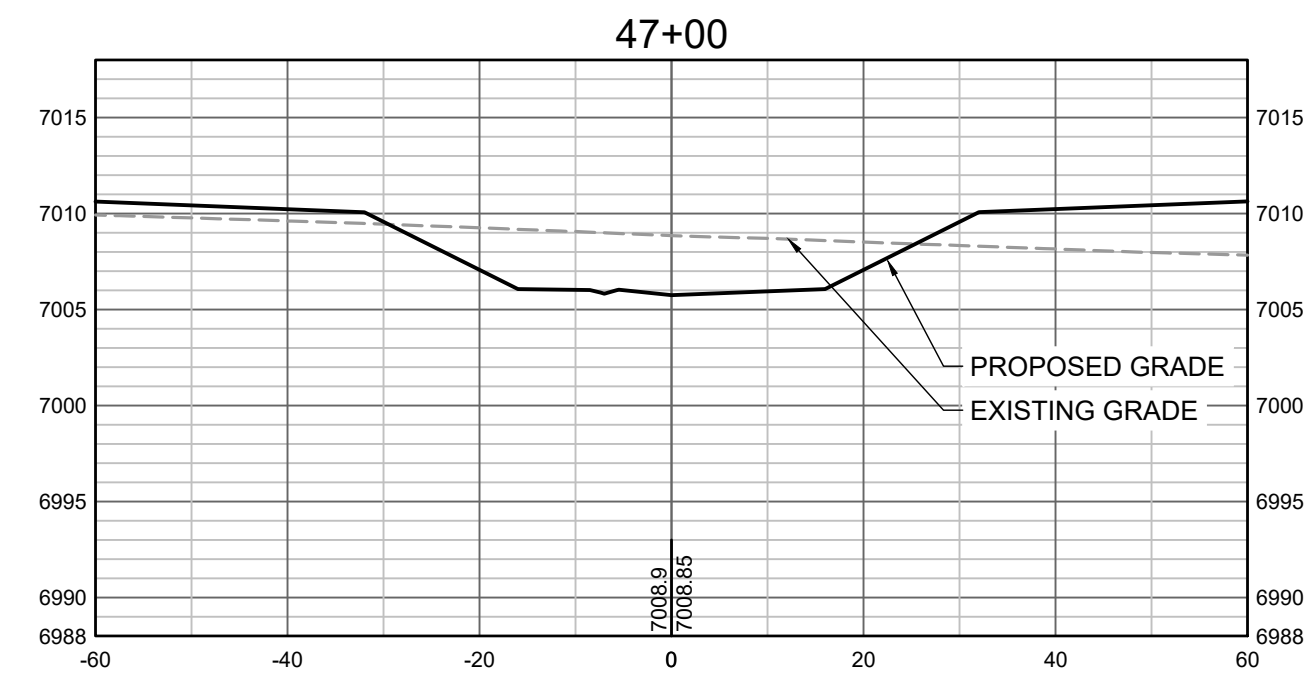
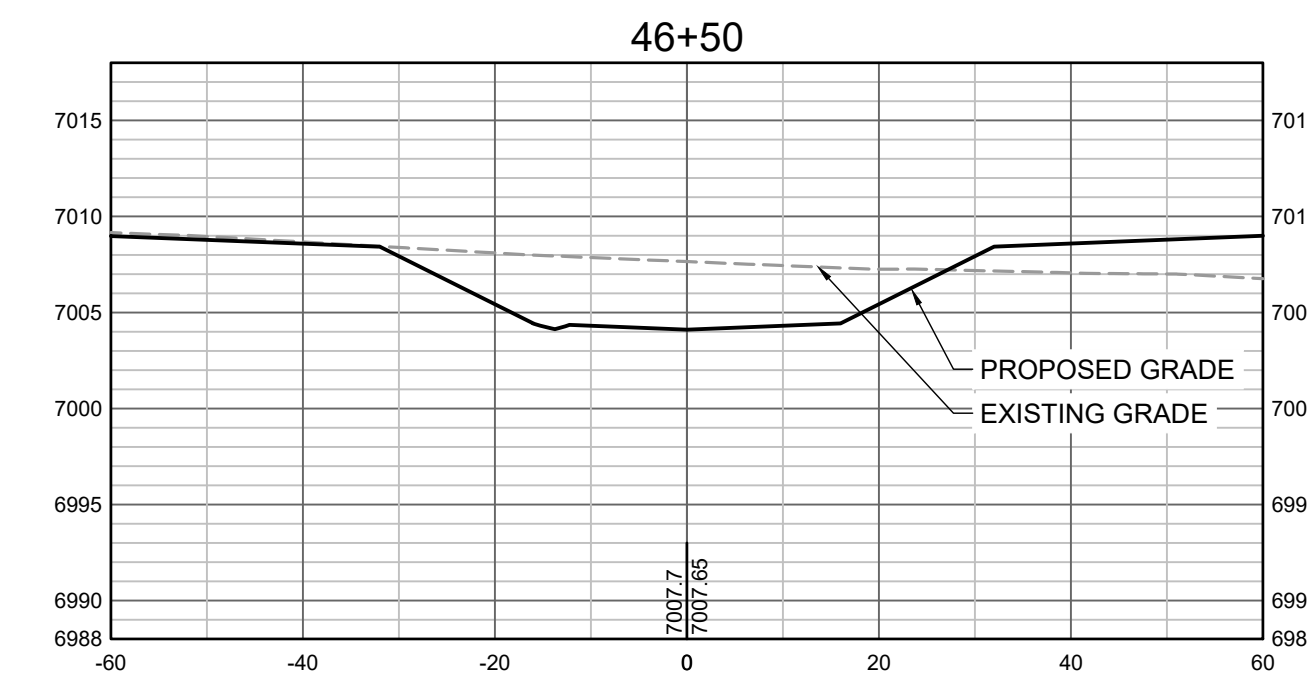
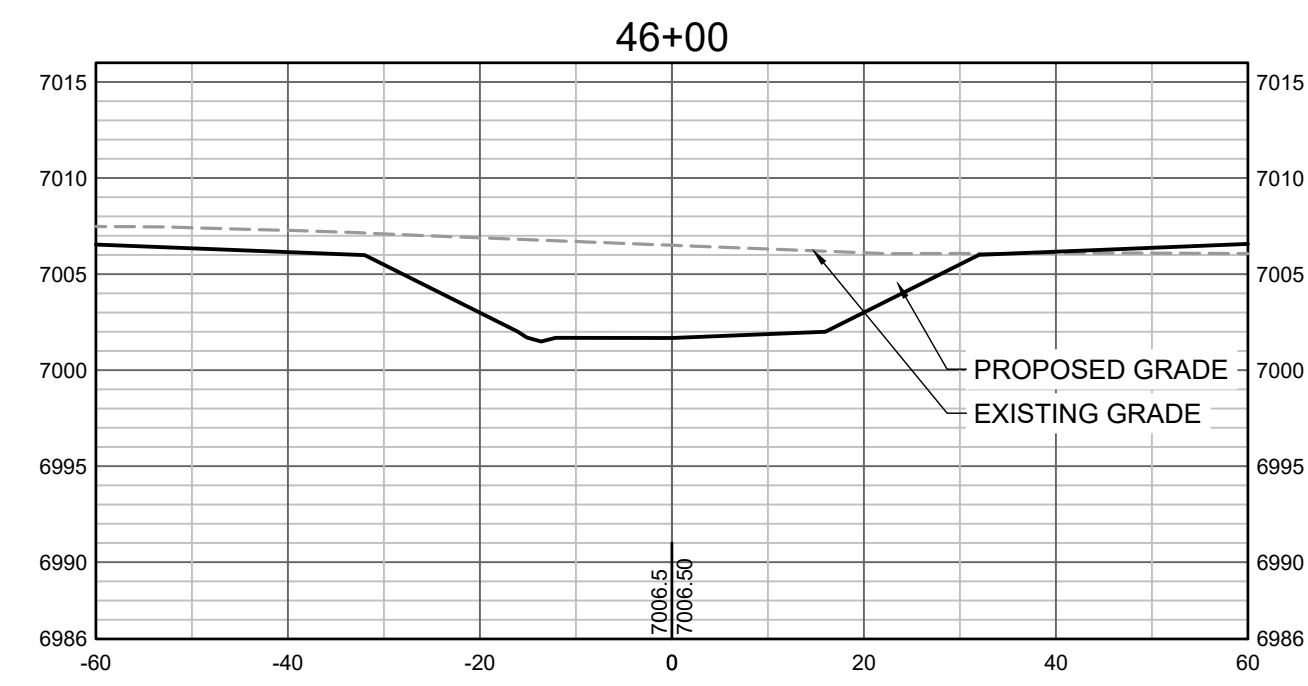
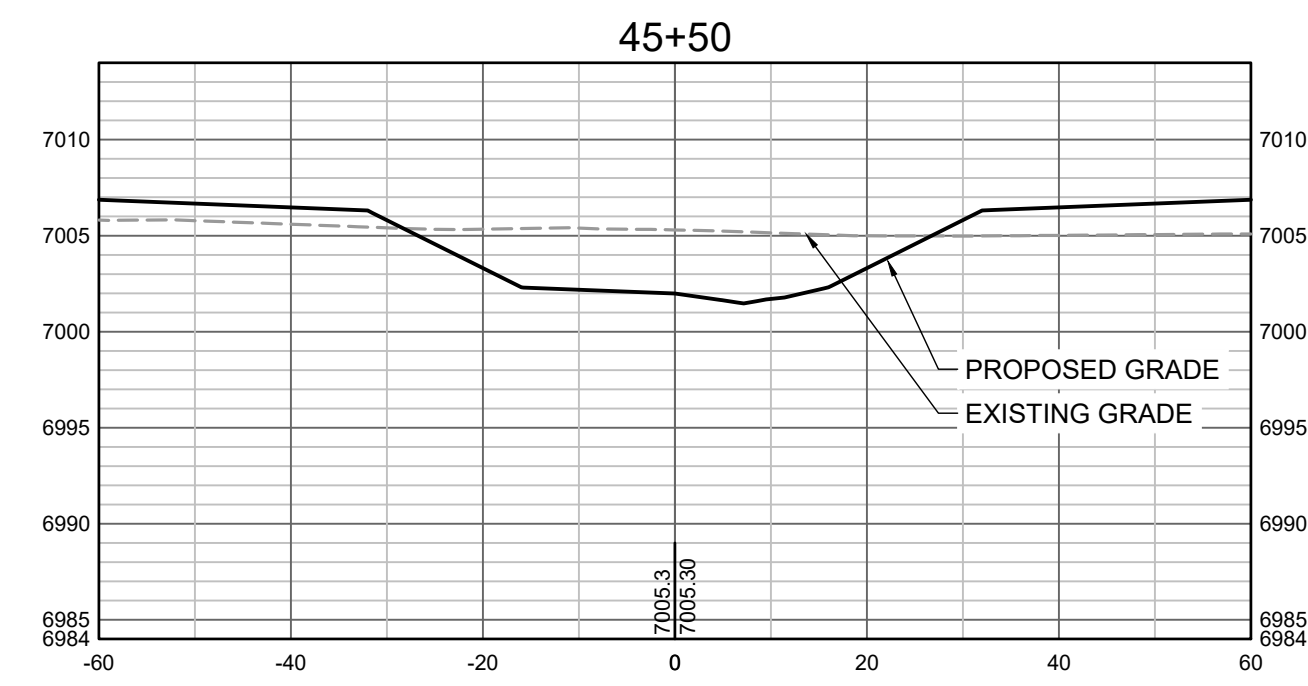
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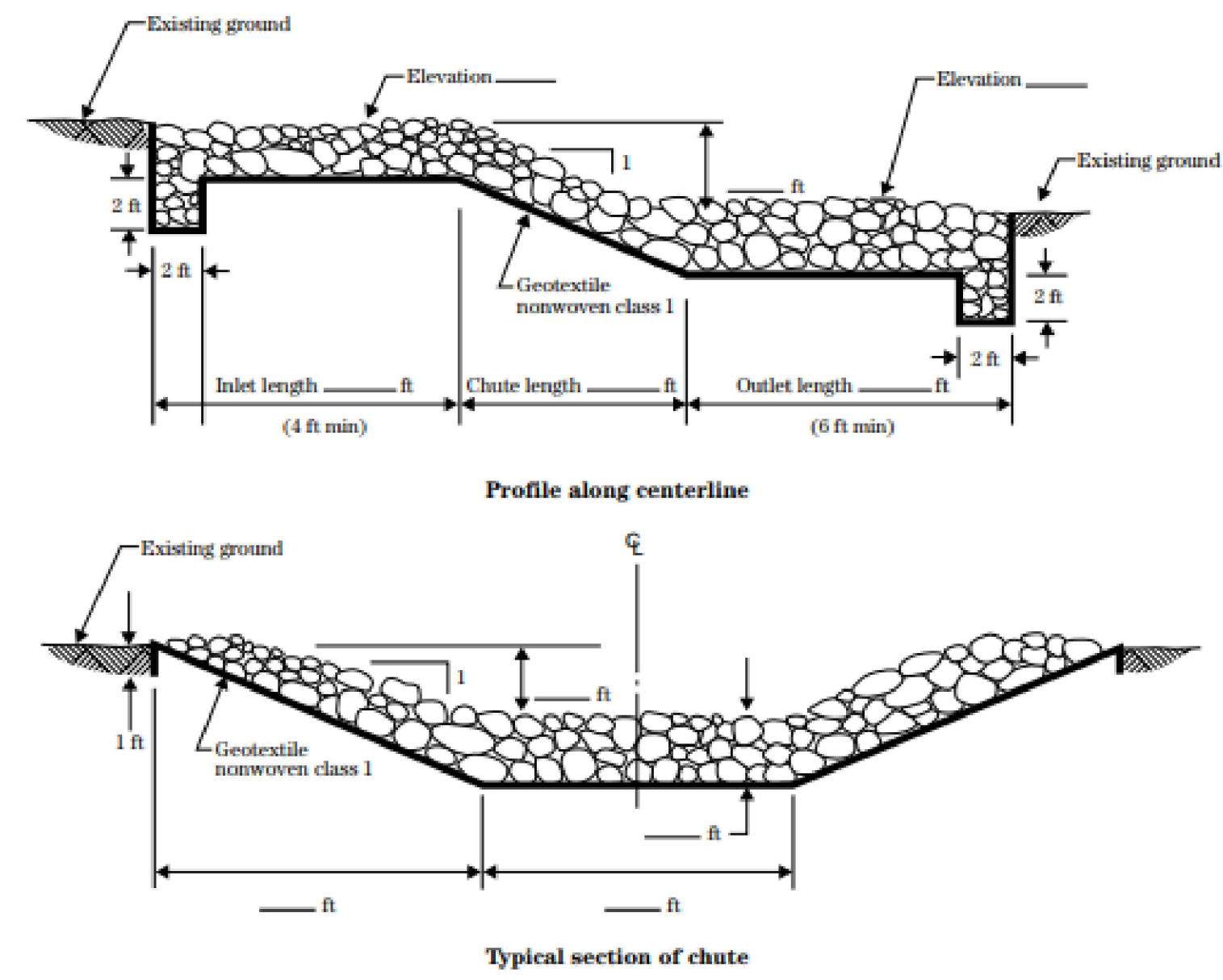
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Figure TS14P-32 Design drawings for rock chute grade control structure



TS14P-16 (210-VI-NEH, August 2007)

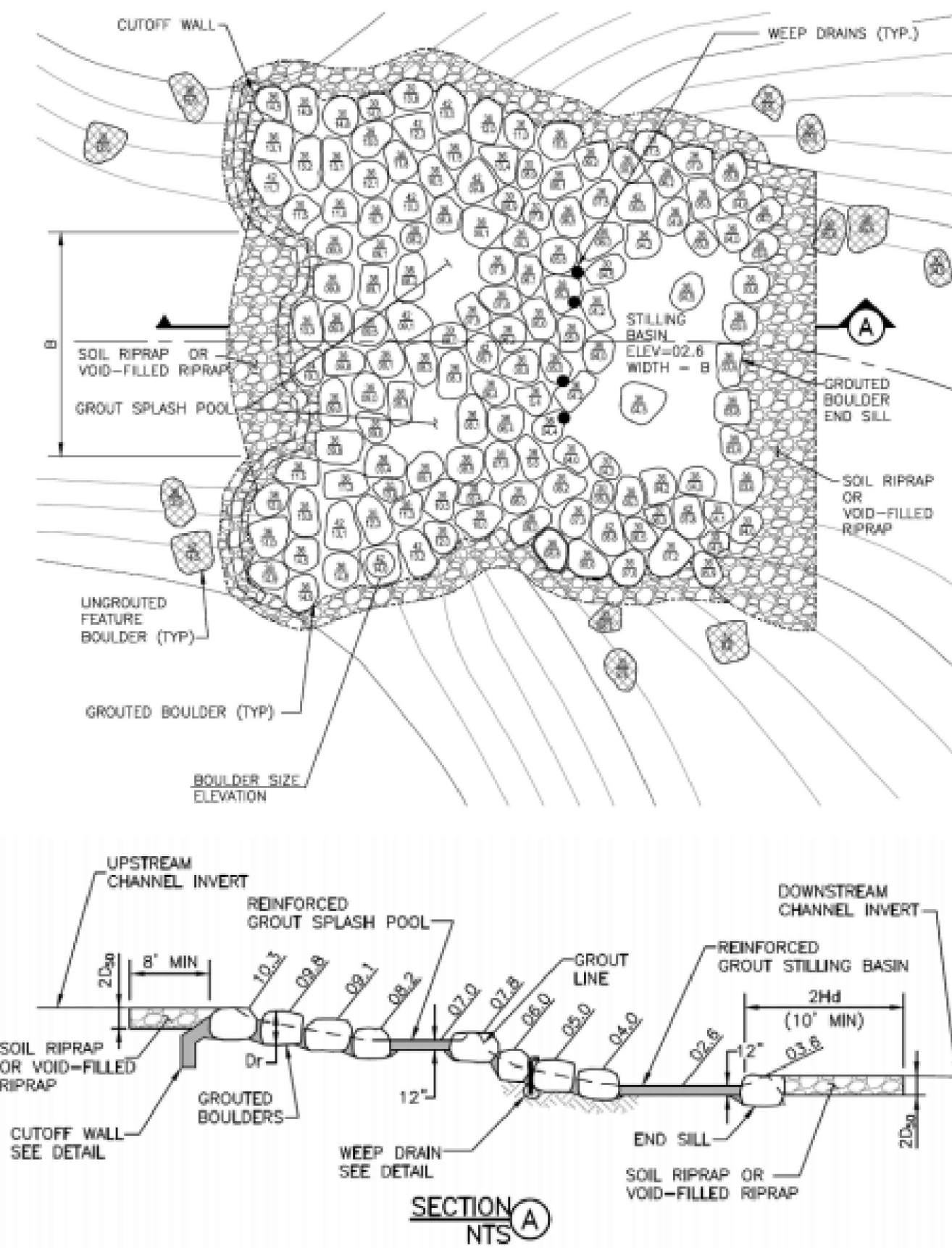


Figure 9-14. Example of complex grouted stepped boulder drop structure

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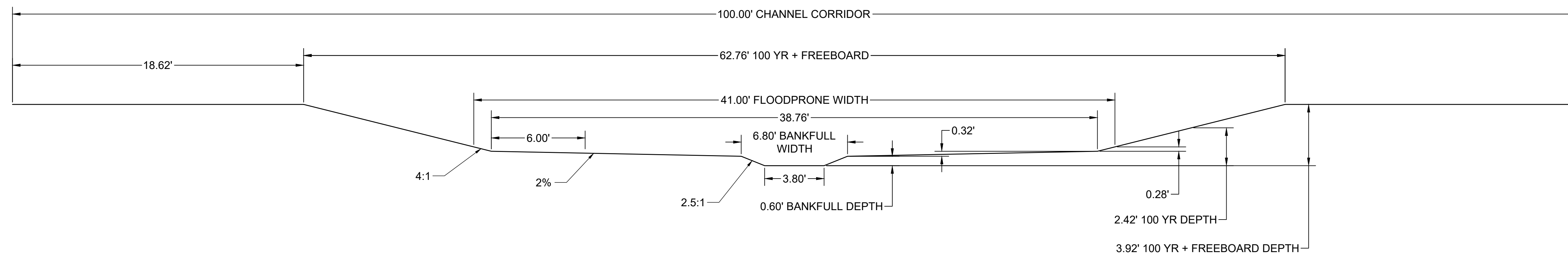


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