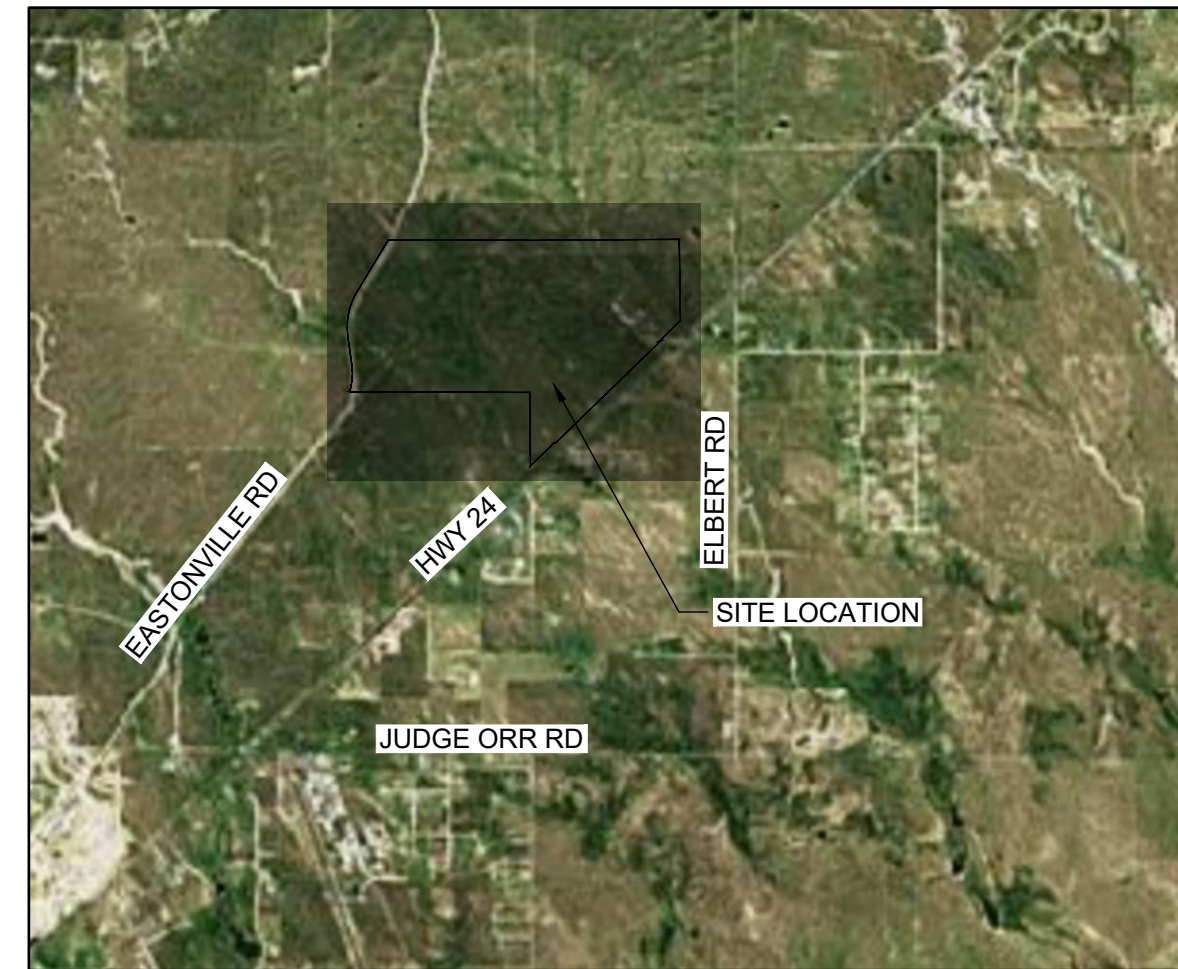


GRANDVIEW, DRAINAGE B GIECK RANCH MAIN STEM TRIBUTARY

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'

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 subdivision design.



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ENGINEER CONTACT(S):
HR GREEN DEVELOPMENT, LLC
GREG PANZA, P.E.
5619 DTC PARKWAY, SUITE 1150
GREENWOOD VILLAGE, CO 80111
PH: 720-602-4939
gpanza@hrgreen.com

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GRANDVIEW METRO DISTRICT
TITLE SHEET

SHEET NO.
TS1 01

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. 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).
3. 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:
 - A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - B. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - D. CDOT M & S STANDARDS
4. 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.
5. 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.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. 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.
8. 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.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

Provide channel cross-section and design data (the ones copied below have not been approved yet)

Figure 1- Proposed Cross Section for MST

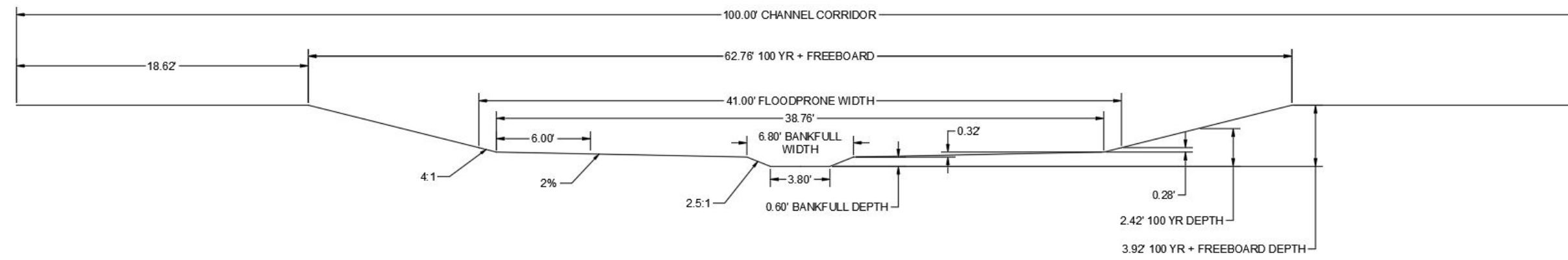


Table 1 - Existing Flows for Main Stem Tributary

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

Table 2 - Future Flows for Main Stem Tributary

STATION	2-YR STORM (cfs)	70% of 2-YR (cfs)	5-YR STORM (cfs)	100-YR STORM (cfs)	10% of 100-YR (cfs)
45+30	19	13.3	59	280	28
22+59	31.72	22.4	60.52	395.83	39.6
6+14	33.53	23.8	63.16	553.68	55.4

Table 5 - DESIGN PARAMETERS

Design Parameter	Design Value
Roughness values	
Maximum 5-year velocity, main channel (within bankfull channel width) (ft/s)	EPC Table 10-2 Consideration given to both MHFD and EPC
Maximum 100-year velocity, main channel (within bankfull channel width) (ft/s)	Consideration given to both MHFD and EPC
Froude No., 5-year, main channel (within bankfull channel width)	0.7
Froude No., 100-year, main channel (within bankfull channel width)	0.85
Maximum shear stress, 100-year, main channel (within bankfull channel width)	1.2 lb/sf
Minimum bankfull capacity of bankfull channel (based on future development conditions)	70% of 2 year, 10.5 cfs
Minimum bankfull channel geometry ¹	
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)
D ₅₀	12-14mm (~0.5 in)
d ₈₄	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)
Maximum bankfull side slope	2.5(H):1(V)
Maximum bankfull side slope	2.5(H):1(V)
Minimum bottom width ³	3.8 ft
Freeboard	1.5 ft

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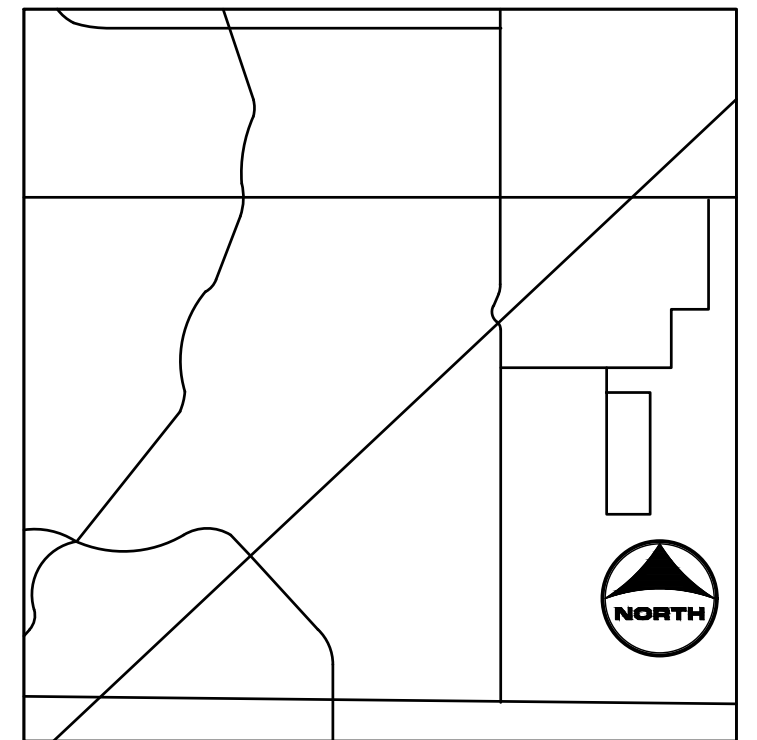
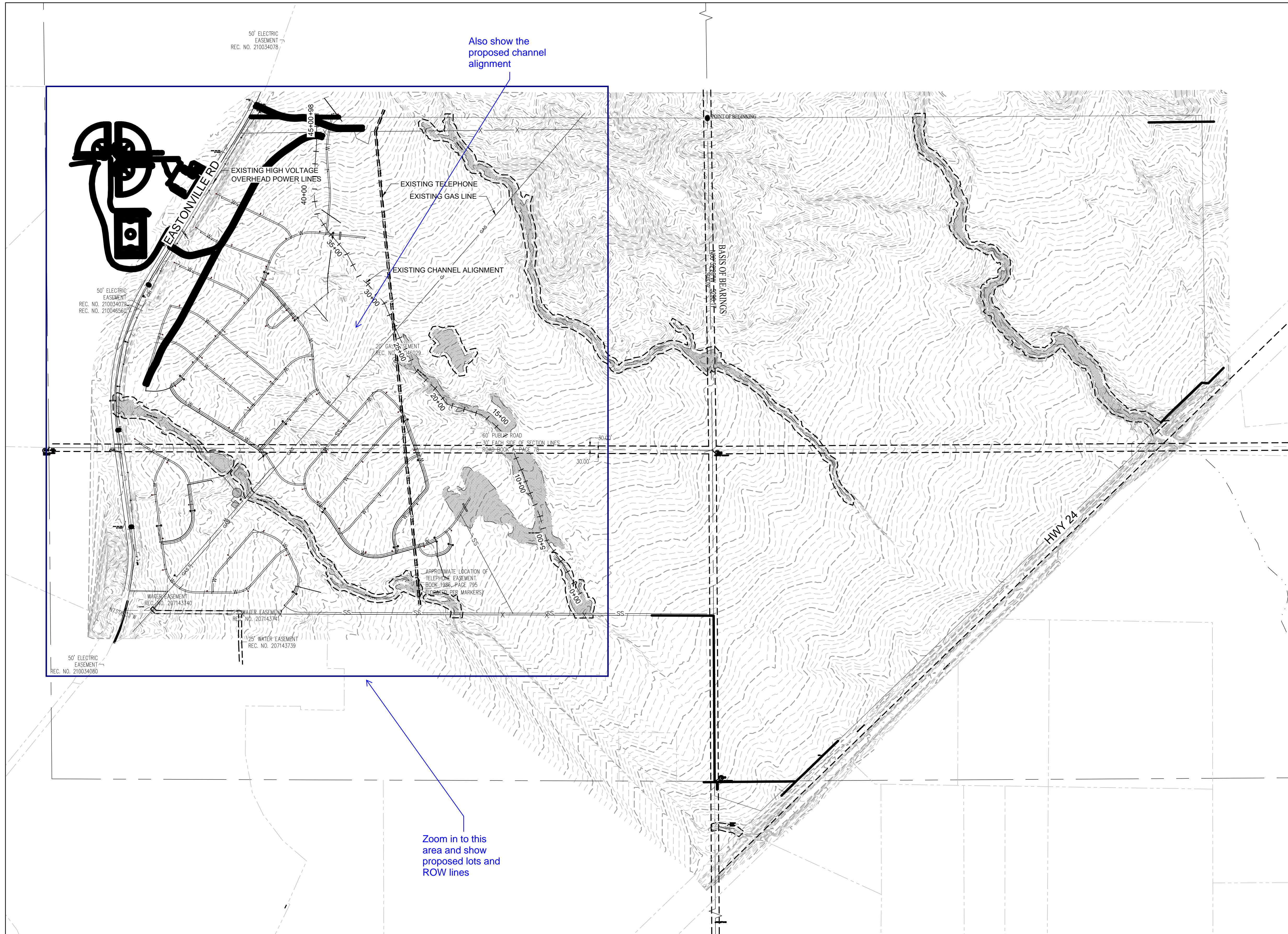


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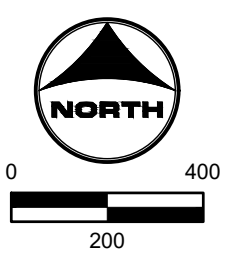
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 GENERAL NOTES

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GN1 02

HR GREEN Xrefs: xgs-1-dh01; OUP KEY: HRG1X_P01; HRG1X_EB00



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED DETENTION BASIN
 - PROPOSED MAJOR CONTOUR
 - 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



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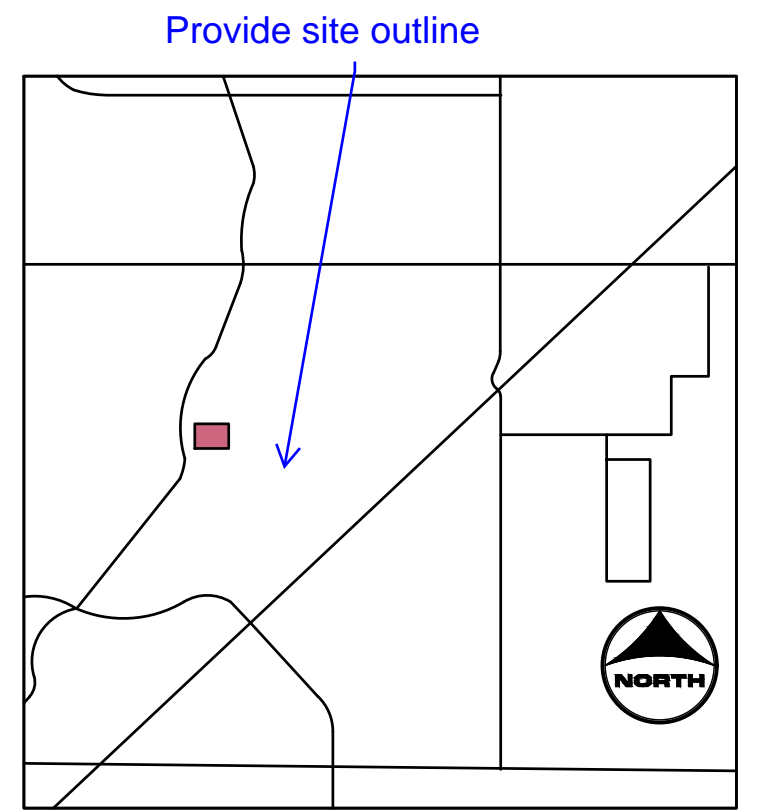
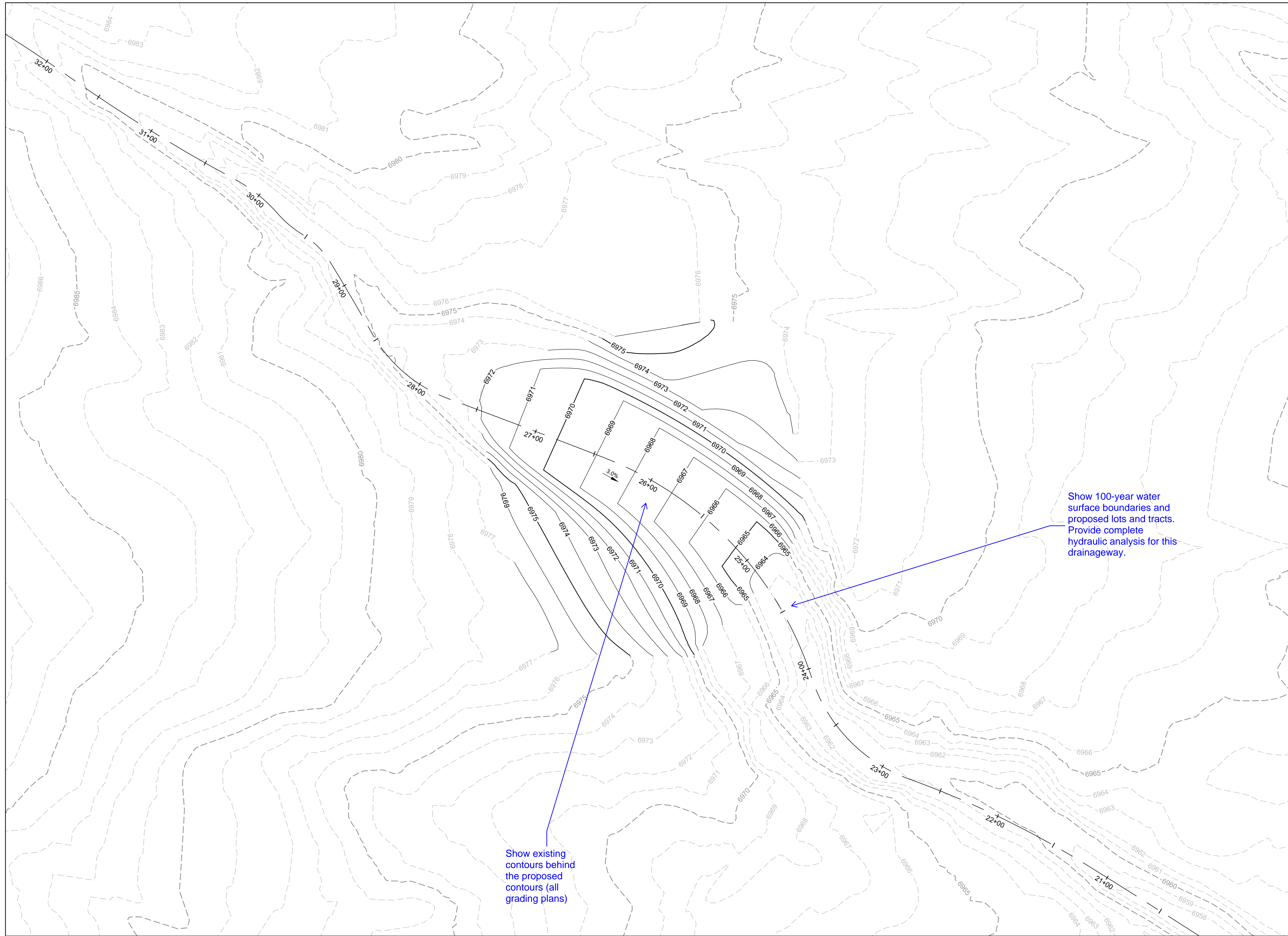
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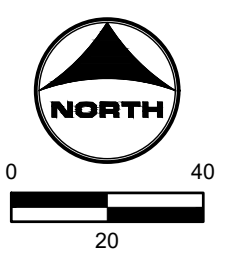
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 OVERALL UTILITY PLAN

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UP1 03



- KEYMAP**
- 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
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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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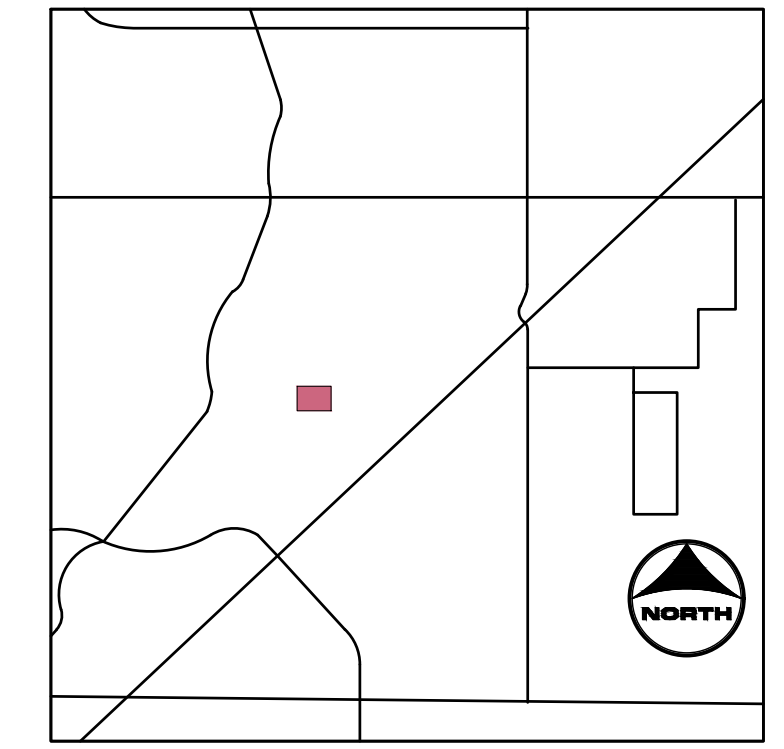
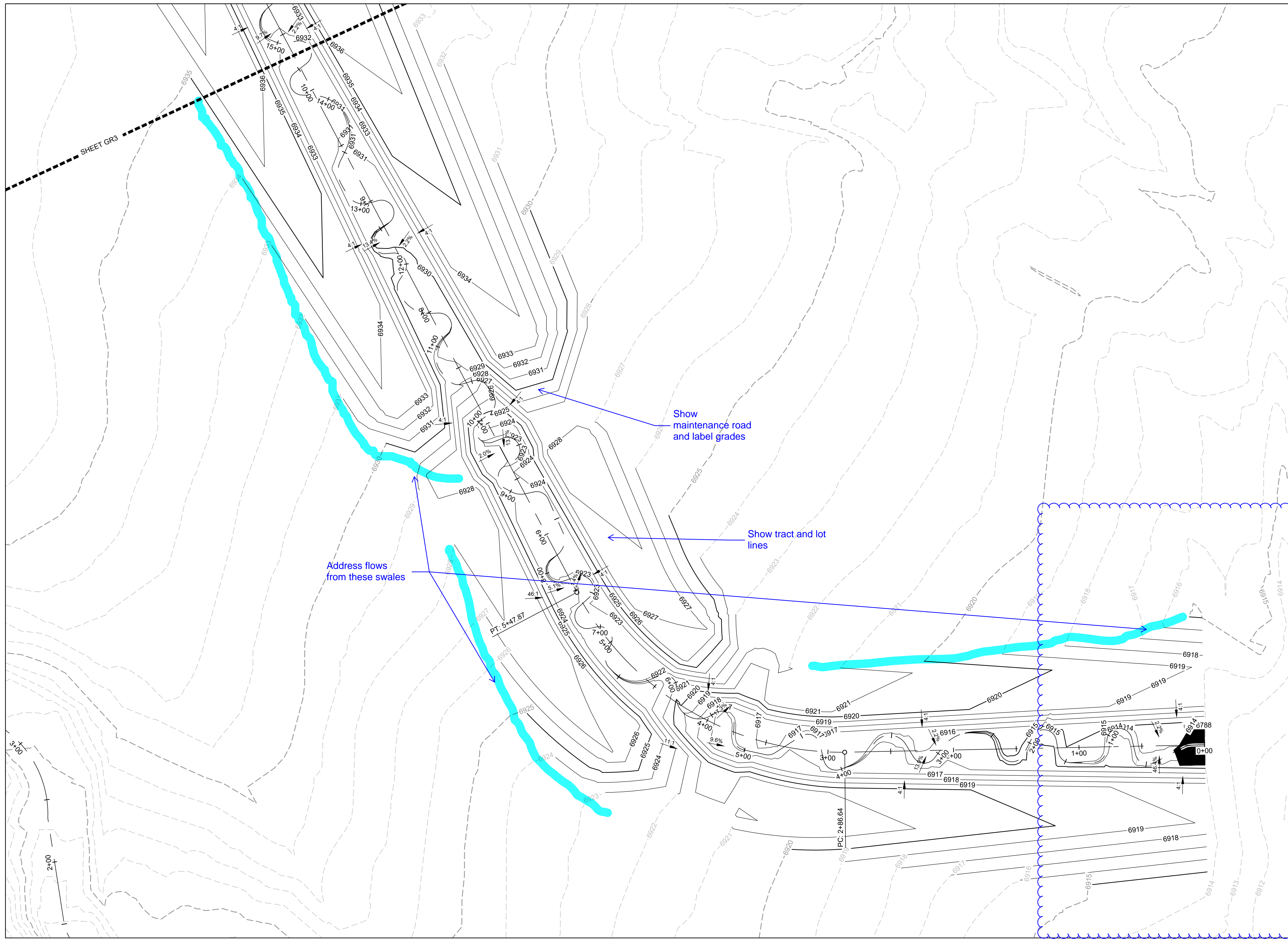
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GRANDVIEW METRO DISTRICT
 CHANNEL A GRADING

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GR1 04



- 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

Show maintenance road and label grades

Show tract and lot lines

Address flows from these swales

Provide complete grading tie-ins



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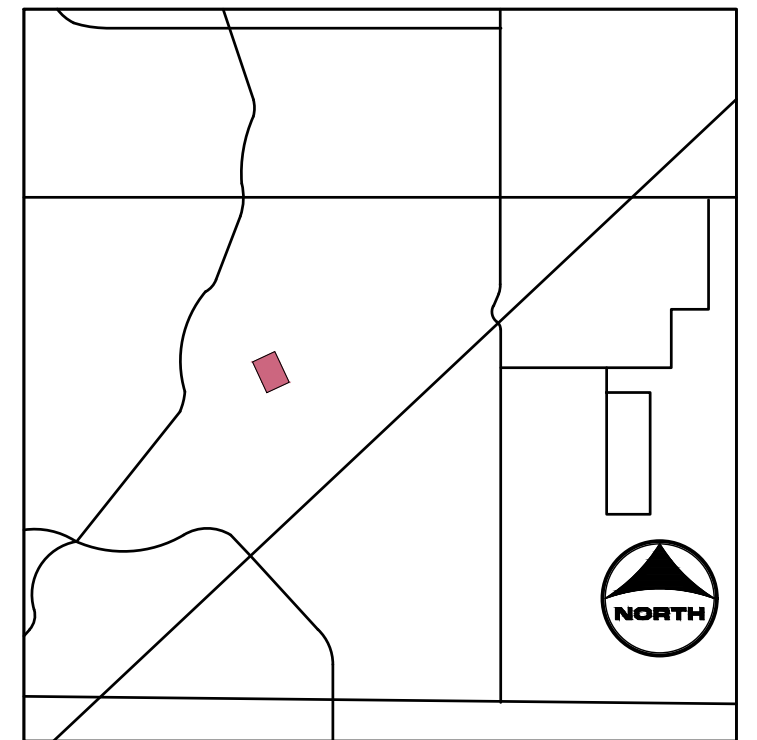
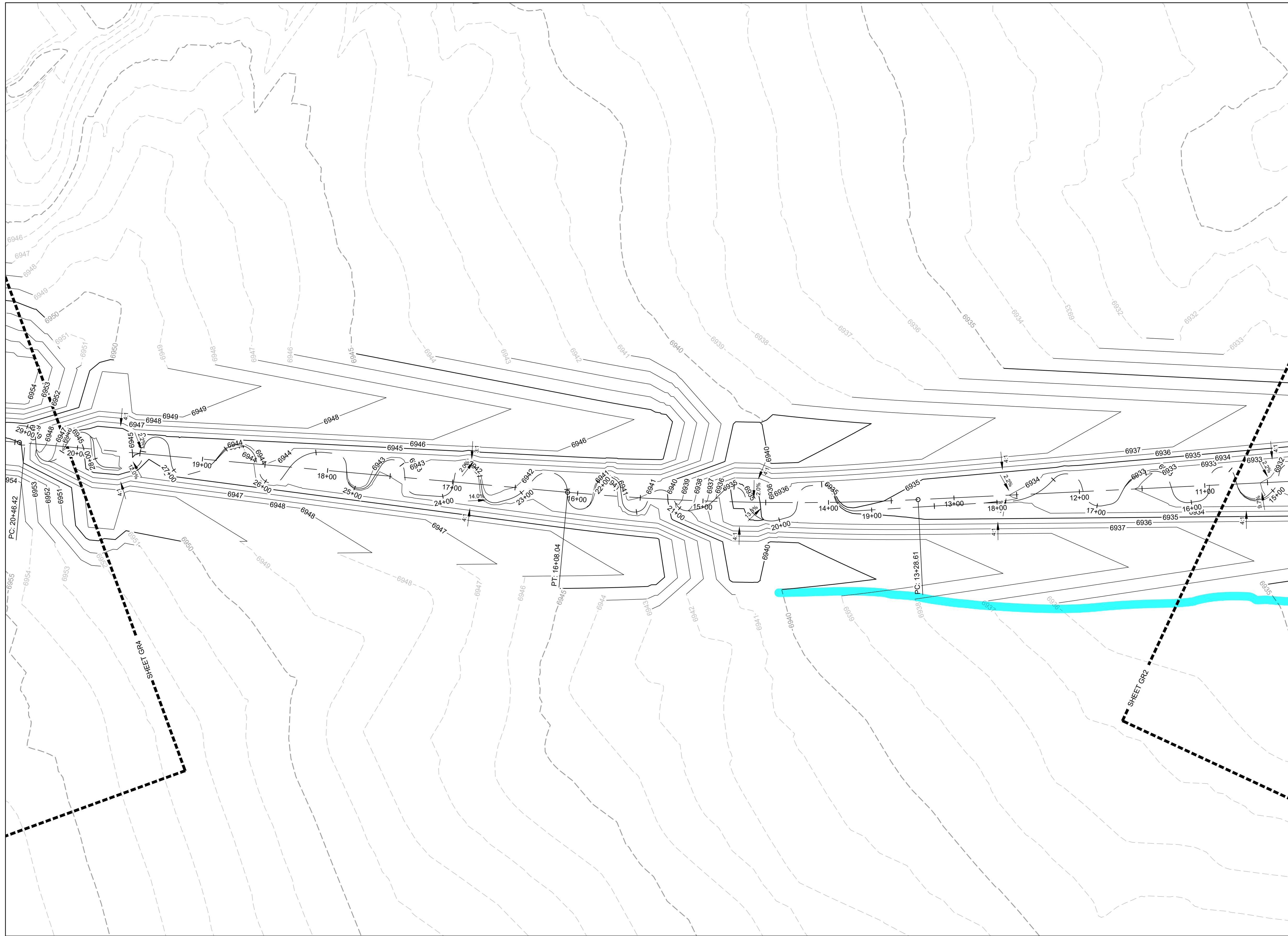


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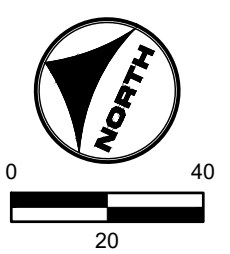
GRANDVIEW METRO DISTRICT
 CHANNEL B GRADING

SHEET NO.
 GR2 05

HR GREEN Xref: xref-dh01: GRADING KEY



- KEYMAP**
- PROJECT LEGEND:**
- — — — — PROPERTY LINE
 - — — — — ROAD CENTERLINE
 - — — — — RIGHT-OF-WAY LINE
 - — — — — PROPOSED DETENTION BASIN
 - — — — — PROPOSED MAJOR CONTOUR
 - — — — — PROPOSED MINOR CONTOUR
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 - - - - - EXISTING MINOR CONTOUR
 - → → → → FLOW ARROW
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 - — — — — STORM INLET TYPE R
 - — — — — STORM MANHOLE
 - — — — — STORM END SECTION



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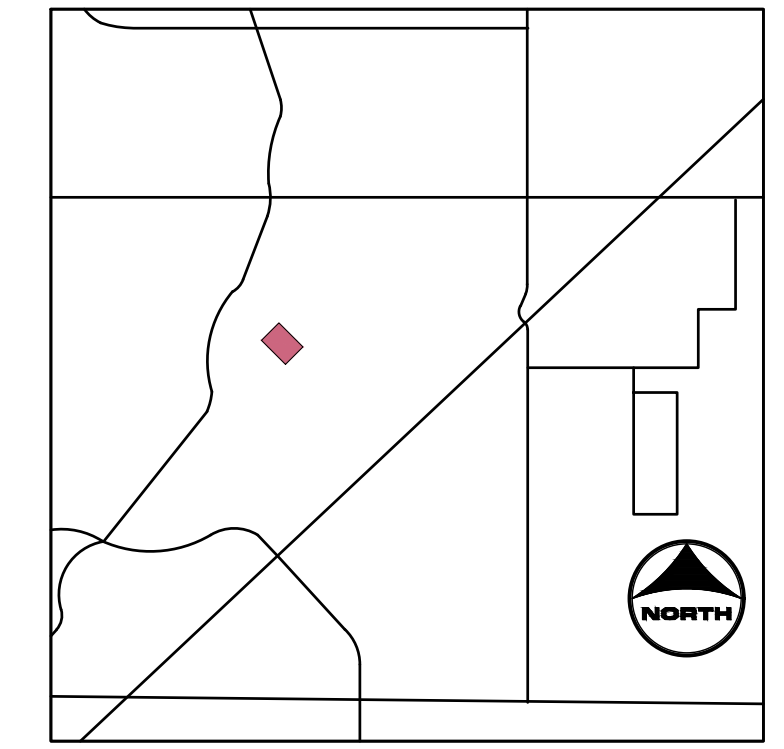
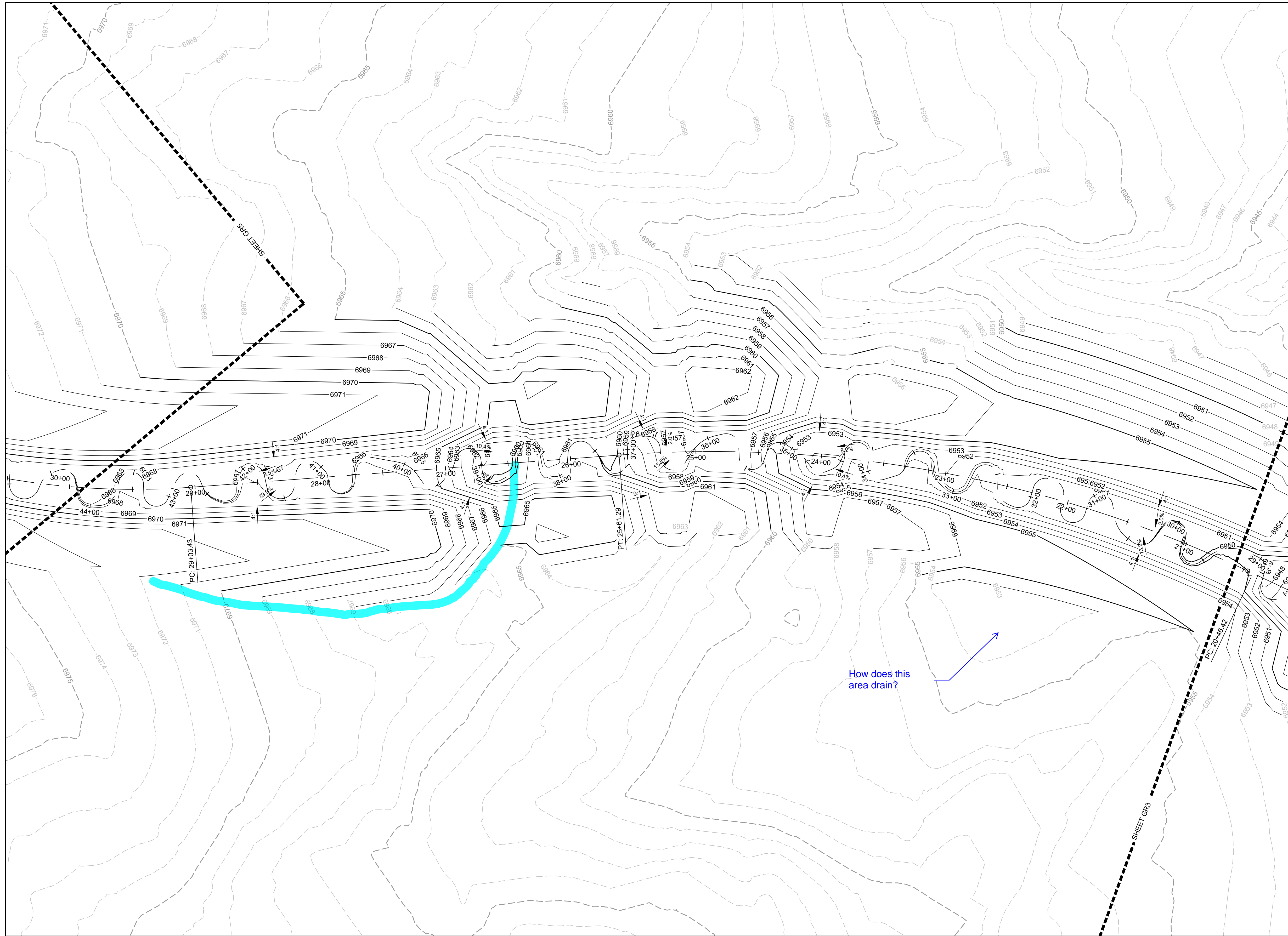
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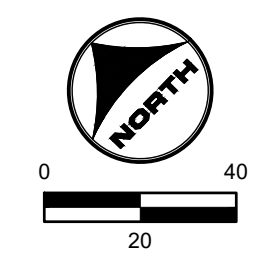
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 CHANNEL B GRADING

SHEET NO.
GR3 06



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED DETENTION BASIN
 - 5250— PROPOSED MAJOR CONTOUR
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HR GREEN Xrefs: xgs-1-dh01: GRADING KEY

DRAWN BY: TBI JOB DATE: 12/10/2021
 APPROVED: CMM JOB NUMBER: 201662.03
 CAD DATE: 12/10/2021
 CAD FILE: J:\2020\201662.03\CAD\DWGS\C\GRADING

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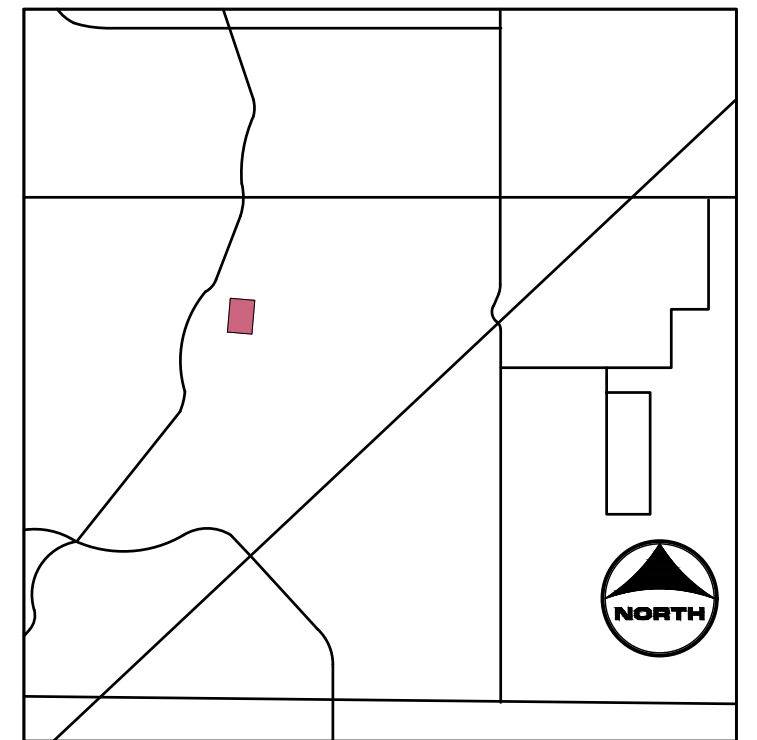
NO.	DATE	BY	REVISION DESCRIPTION

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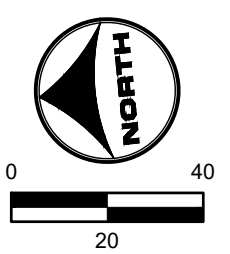
GRANDVIEW RESERVE
DR HORTON
 FALCON, COLORADO

GRANDVIEW METRO DISTRICT
 CHANNEL B GRADING

SHEET NO.
GR4 07



- KEYMAP**
- 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
 - ▬ POTENTIAL WALL
 - ▬ STORM SEWER
 - ▬ STORM INLET TYPE R
 - STORM MANHOLE
 - ▬ STORM END SECTION



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HR GREEN Xrefs: xgs-1-dh01: GRADING KEY

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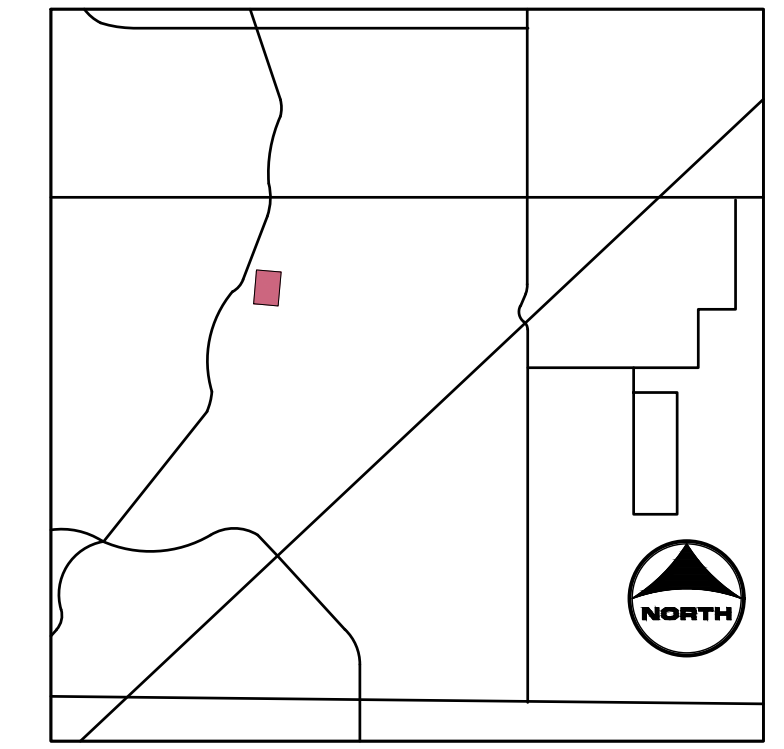
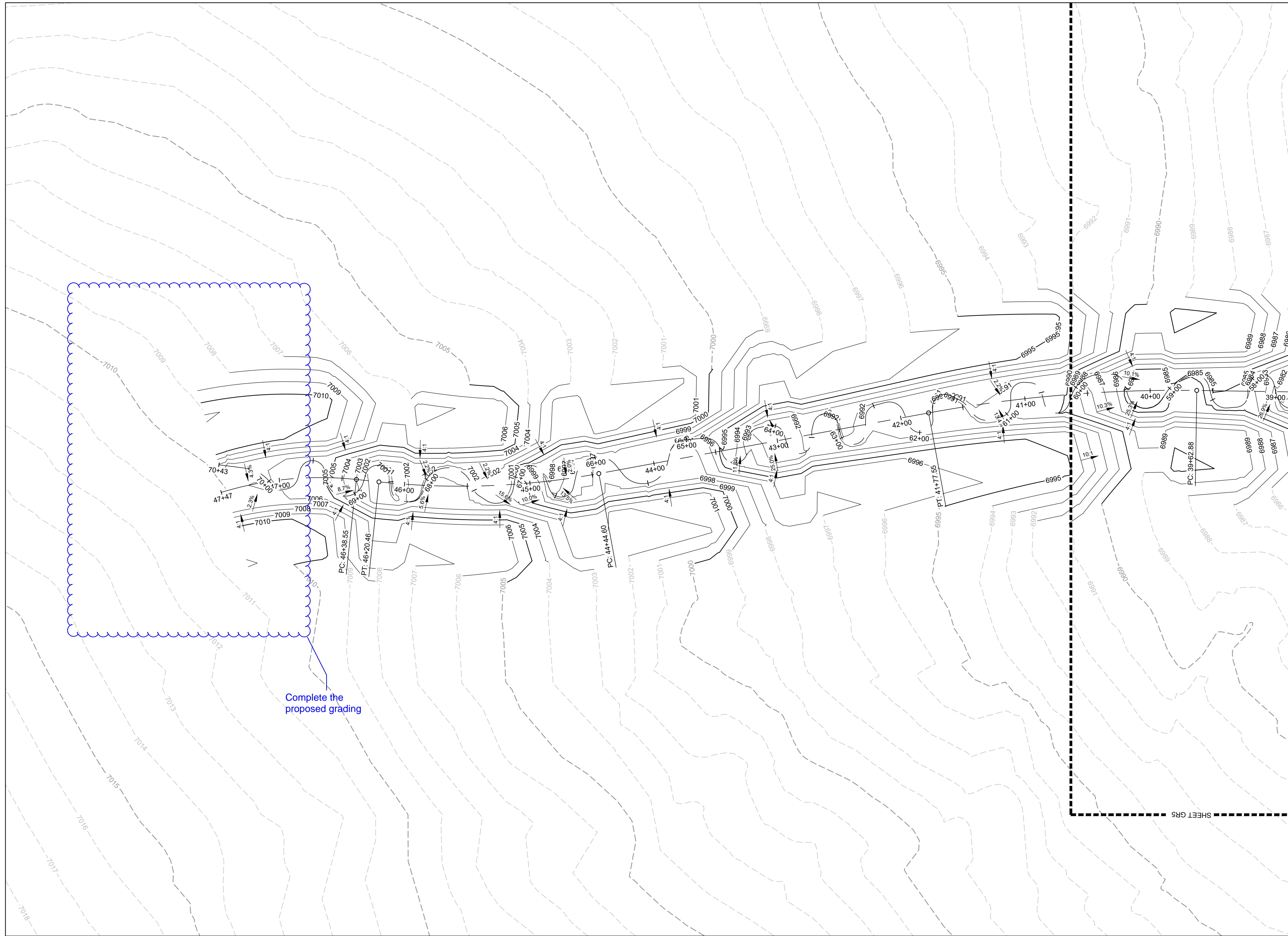
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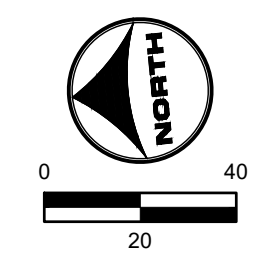
GRANDVIEW METRO DISTRICT
 CHANNEL B GRADING

SHEET NO.
GR5 08



- KEYMAP**
- PROJECT LEGEND:**
- PROPERTY LINE
 - ROAD CENTERLINE
 - RIGHT-OF-WAY LINE
 - PROPOSED DETENTION BASIN
 - 5250— PROPOSED MAJOR CONTOUR
 - 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

Complete the proposed grading



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HR GREEN Xref: xref.dwg; d:\01: GRADING KEY

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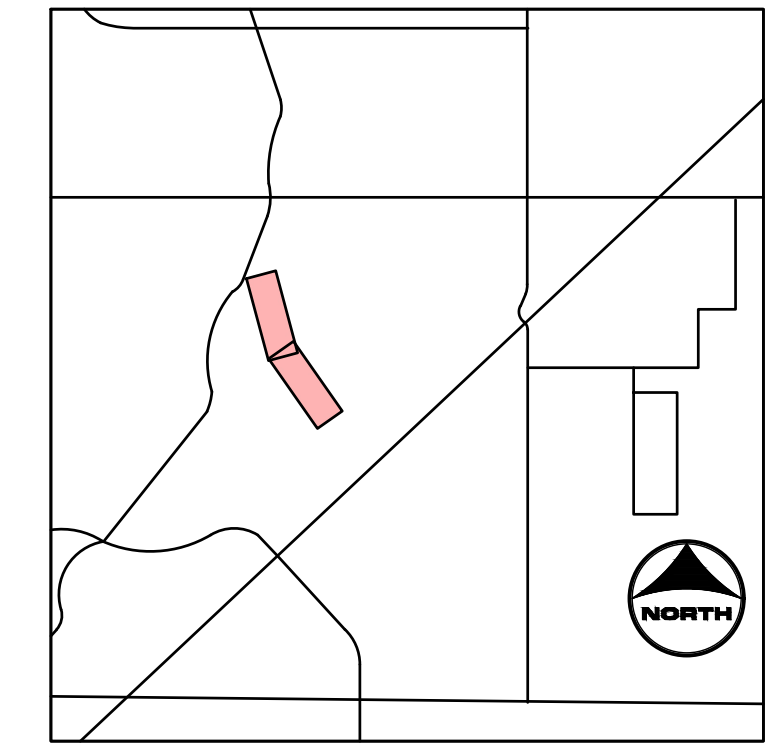
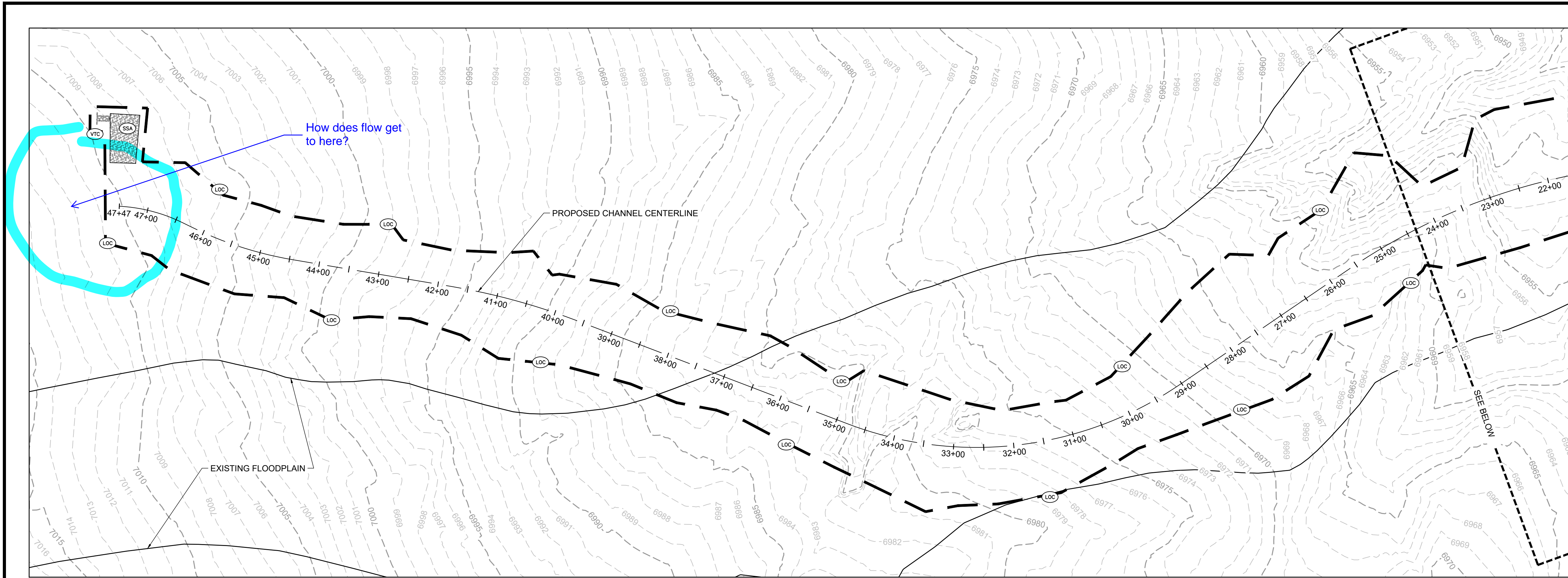
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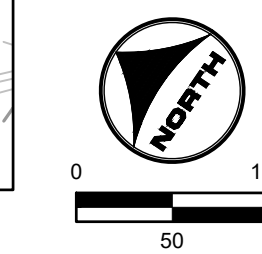
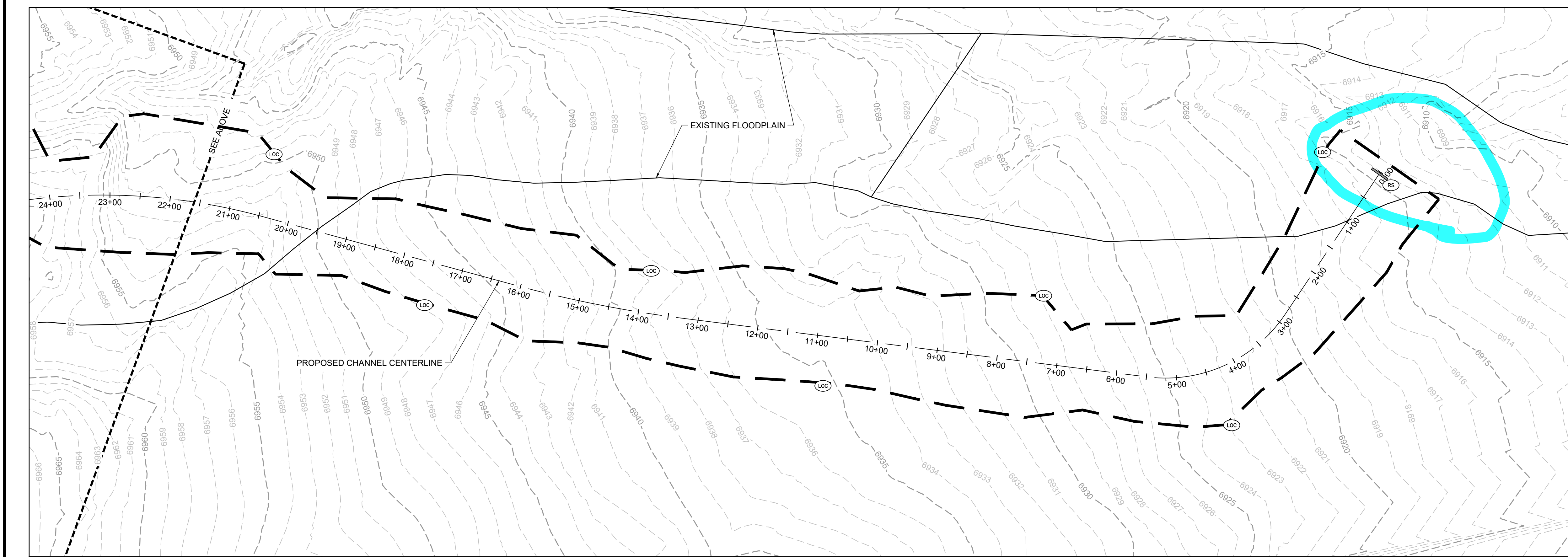
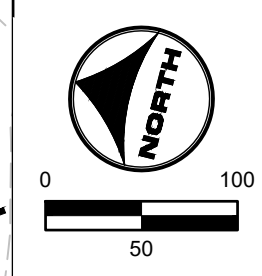
GRANDVIEW METRO DISTRICT
CHANNEL B GRADING

SHEET NO.
GR6 09



- 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

- 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



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HR GREEN Xref: xref.dwg; -d101; INITIAL EROSION CONTROL KEY; S.FLD_HAZ_LIN.DWG; INITIAL E.C.

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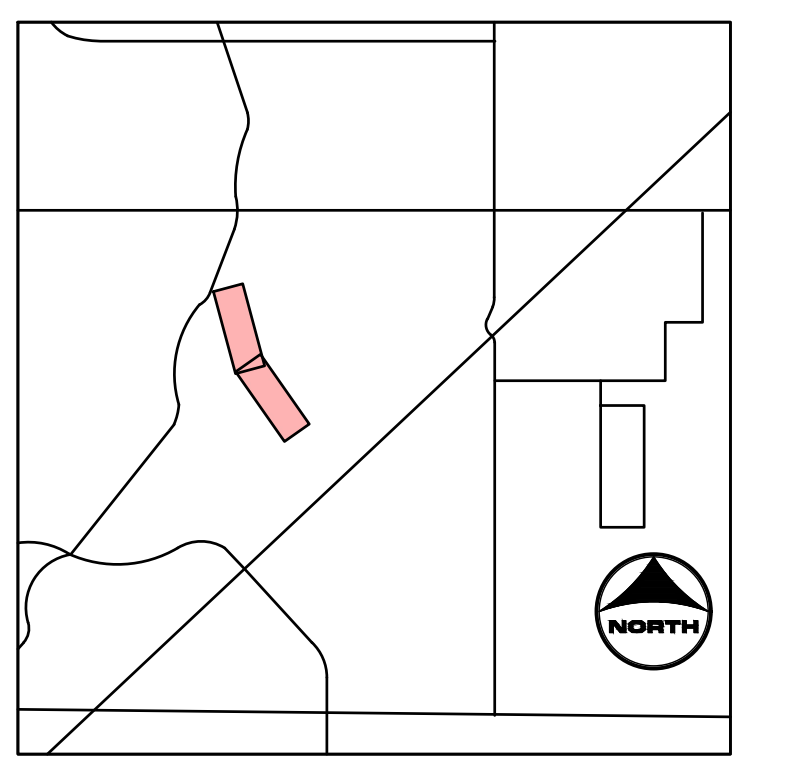
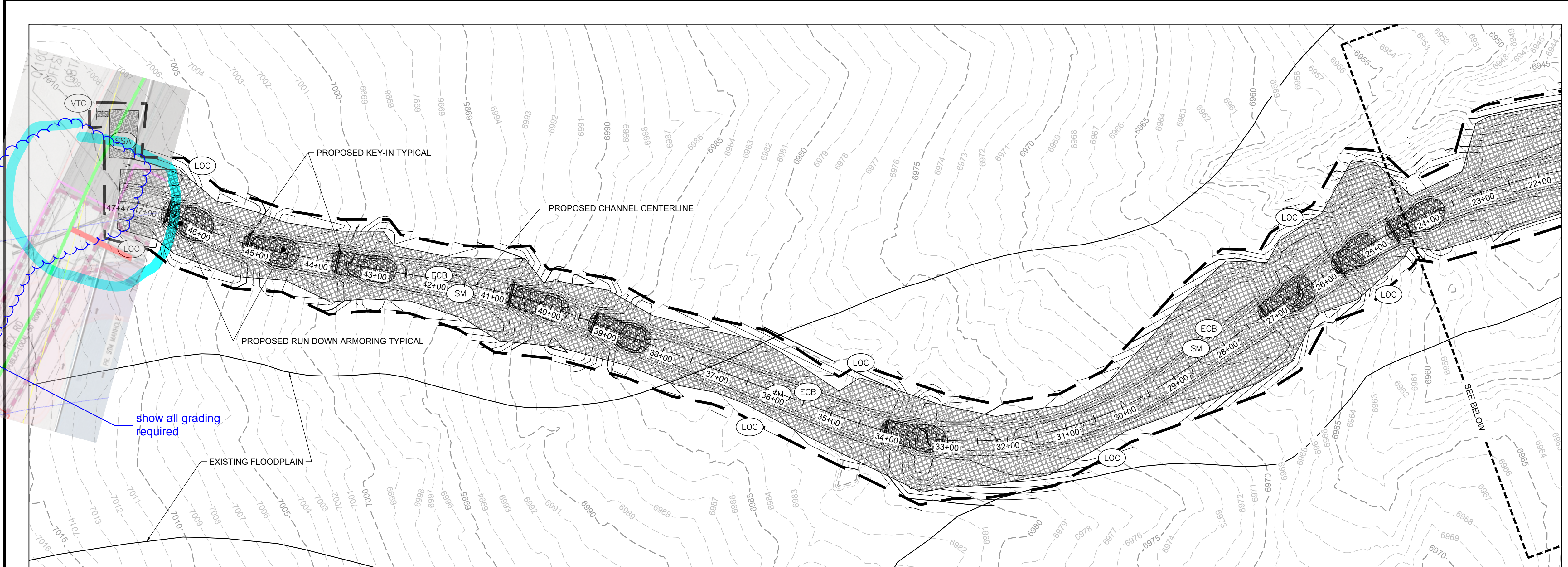
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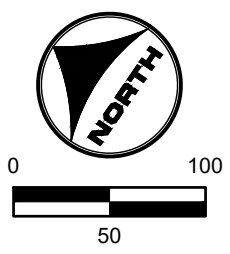
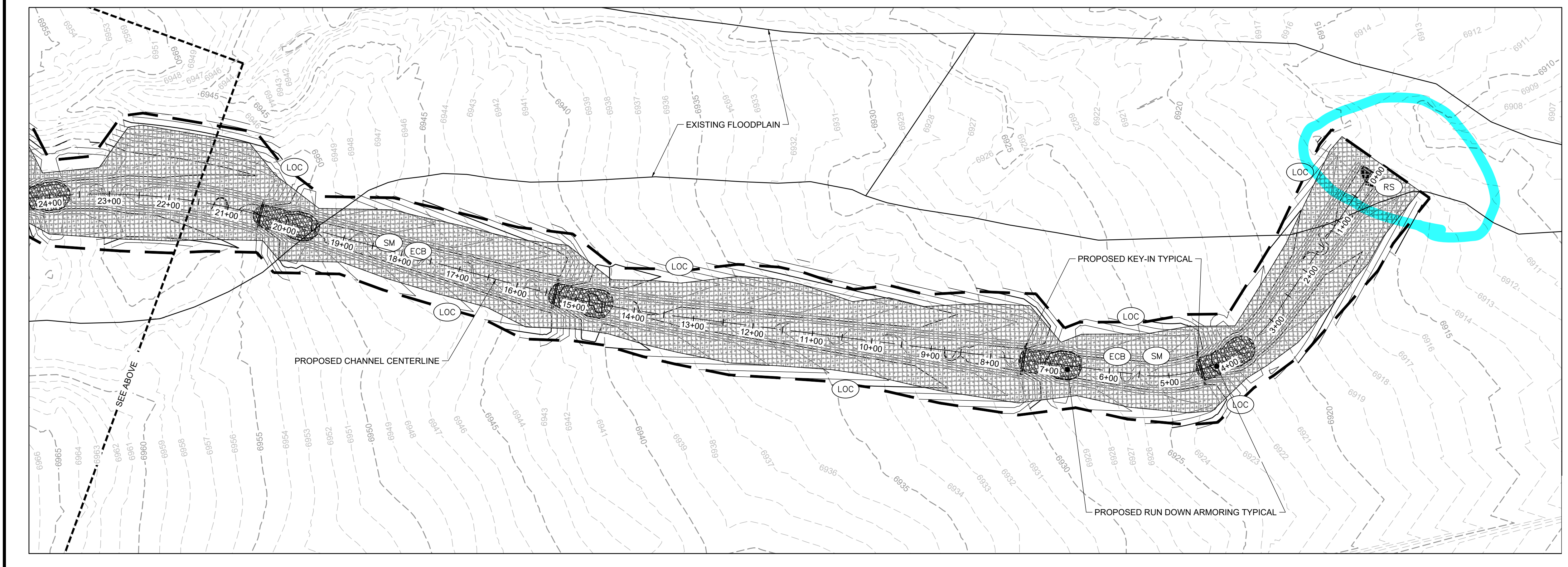
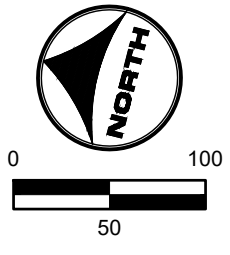
GRANDVIEW METRO DISTRICT
 INITIAL EROSION CONTROL

SHEET NO.
EC1 10



- 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
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 - [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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HR GREEN Xref: xref.dwg; -d101; FINAL EROSION CONTROL KEY'S_FLD_HAZ_LIN_01-XCFINAL-EC_01_XC_RIPRAP

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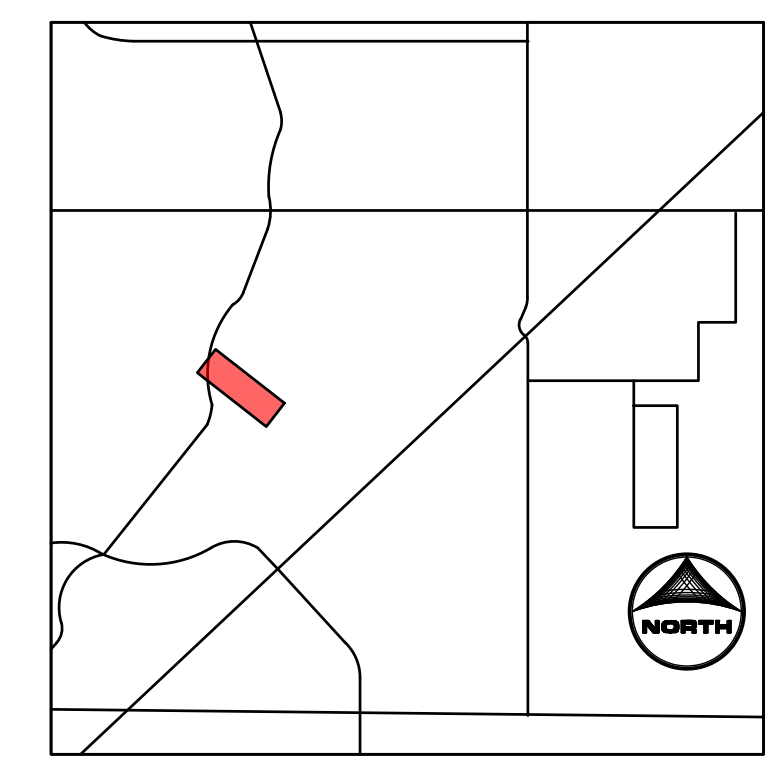
NO.	DATE	BY	REVISION DESCRIPTION



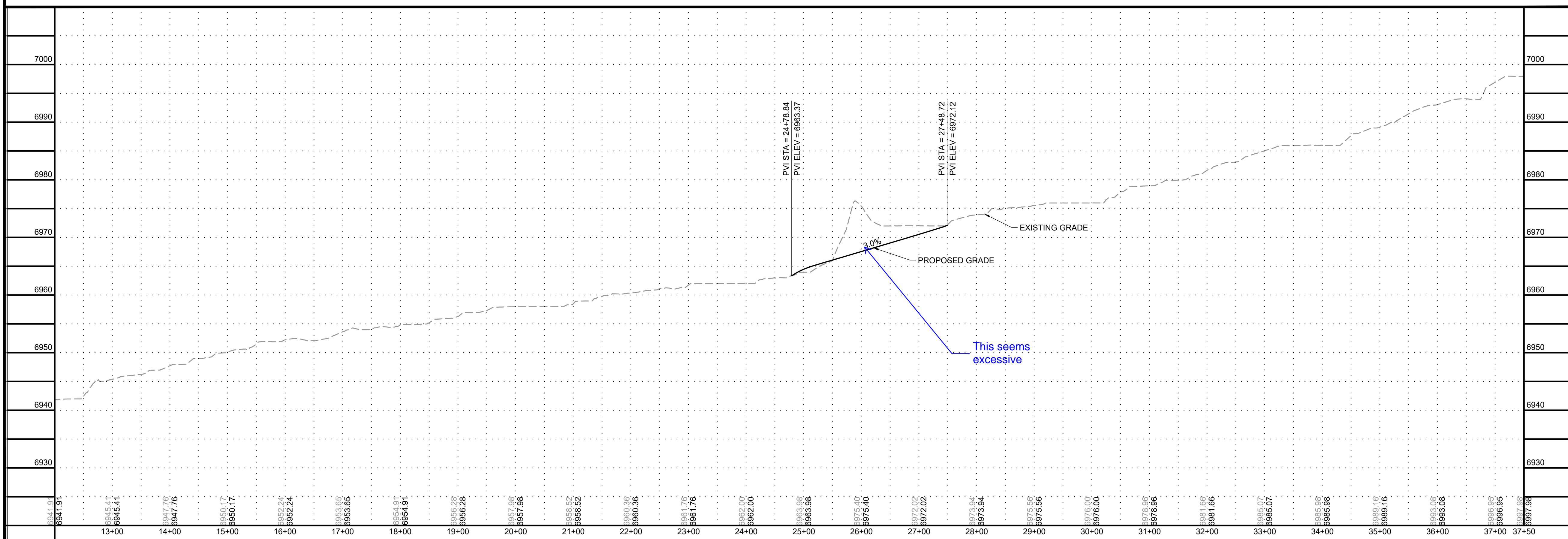
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GRANDVIEW METRO DISTRICT
 FINAL EROSION CONTROL

SHEET NO.
EC2 11



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



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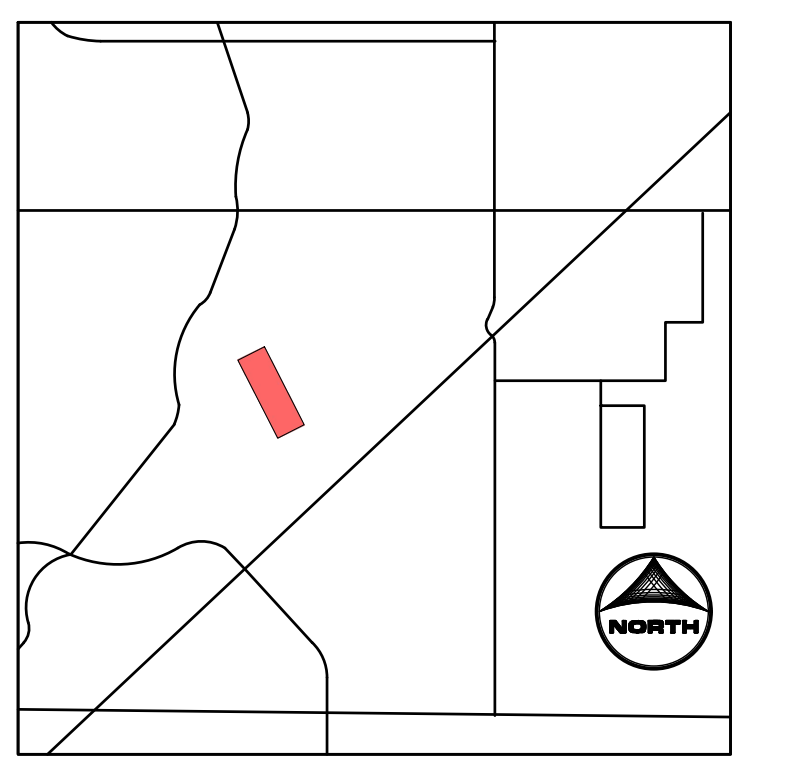
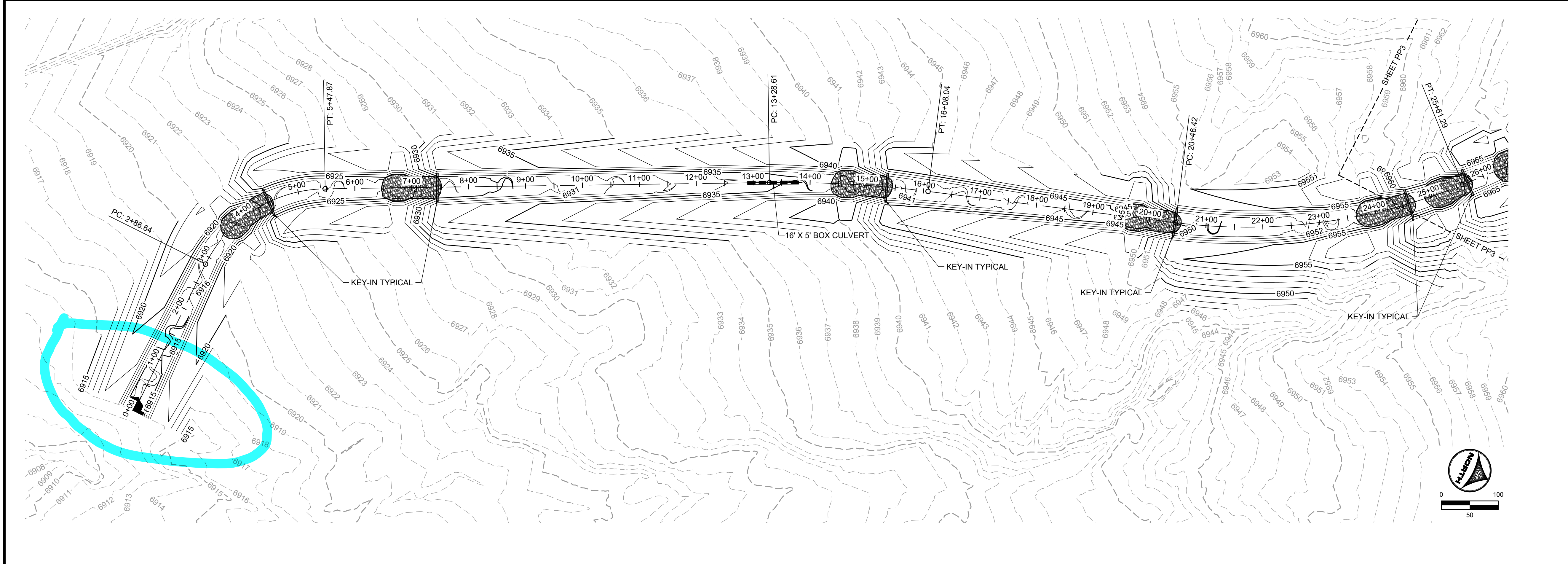


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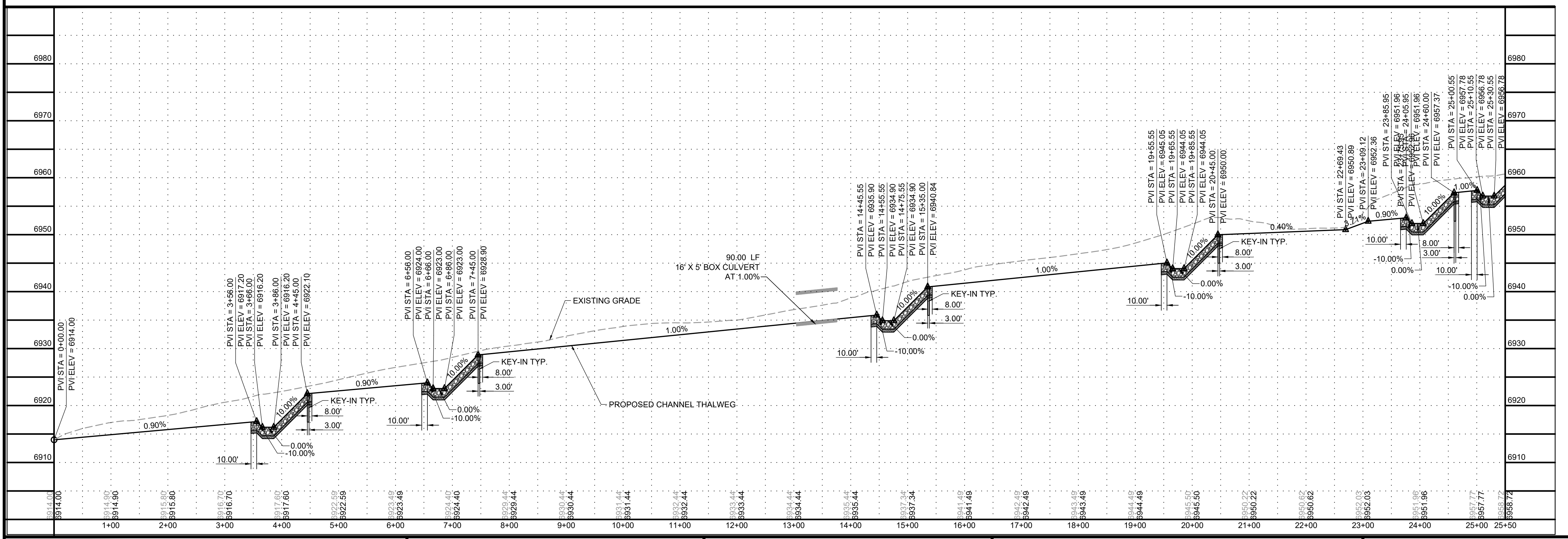
GRANDVIEW METRO DISTRICT
 DRAINAGE A PLAN AND PROFILE

SHEET NO.
PP1 12

HR GREEN Xrefs: xref-dim01; P&P KEY: 01_XC_RIPRAP



- 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
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HR GREEN Xref: xref.dwg; -d01; P&P KEY: 01_XC_RIPRAP

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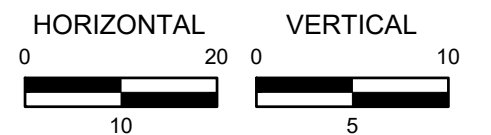
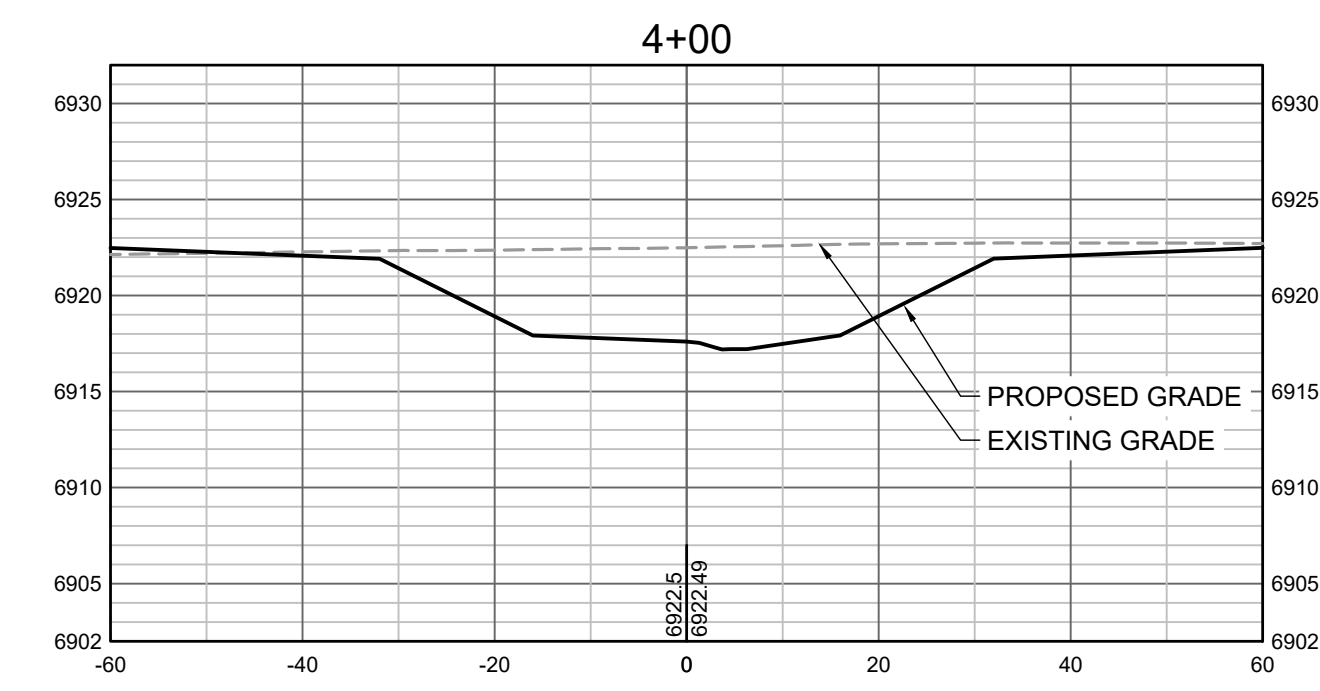
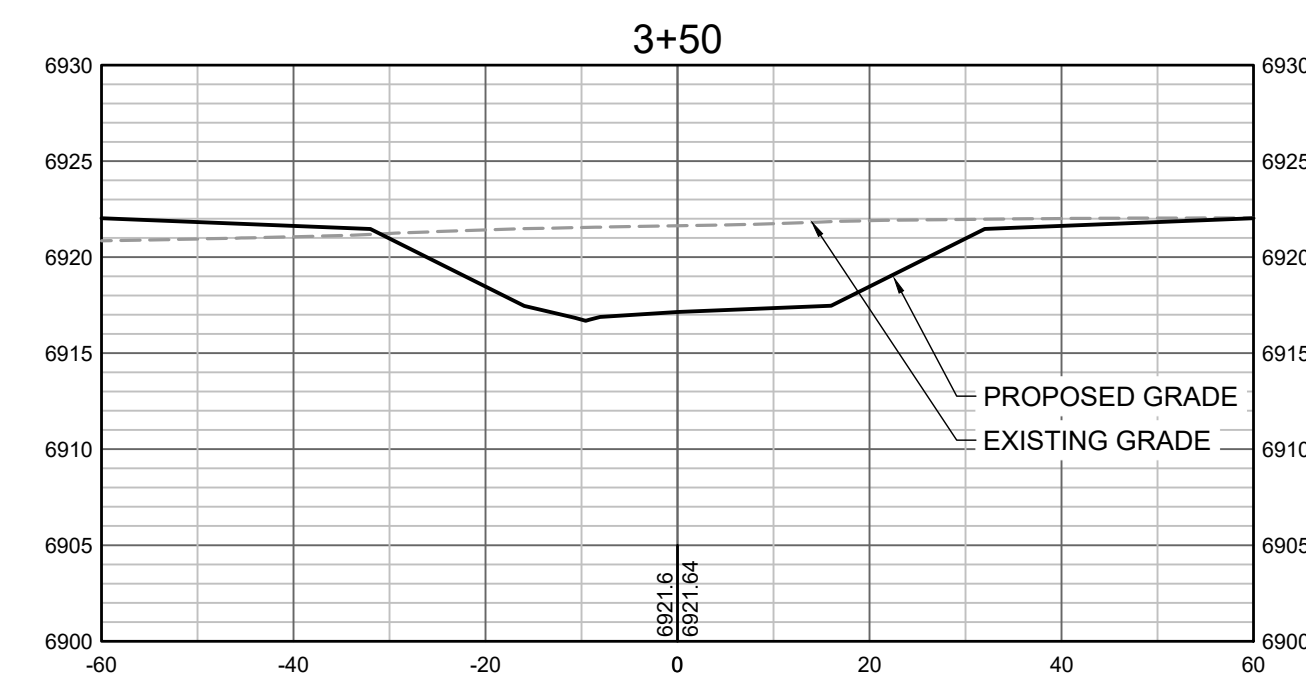
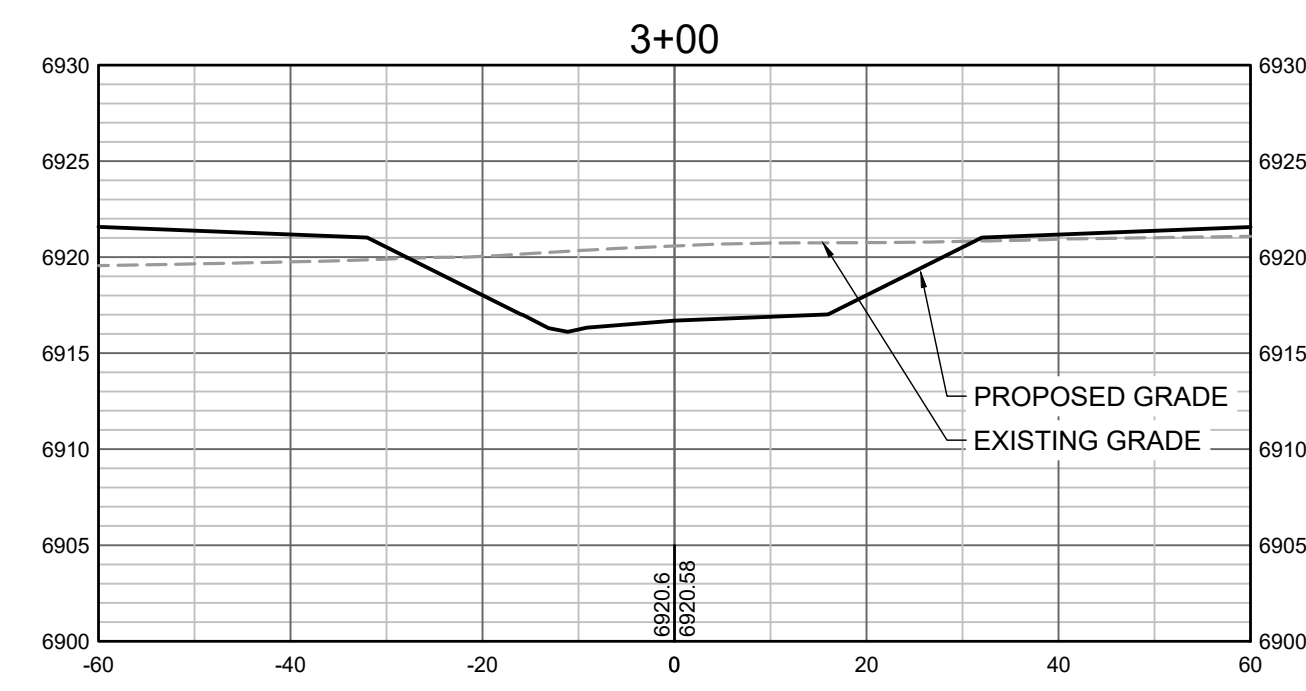
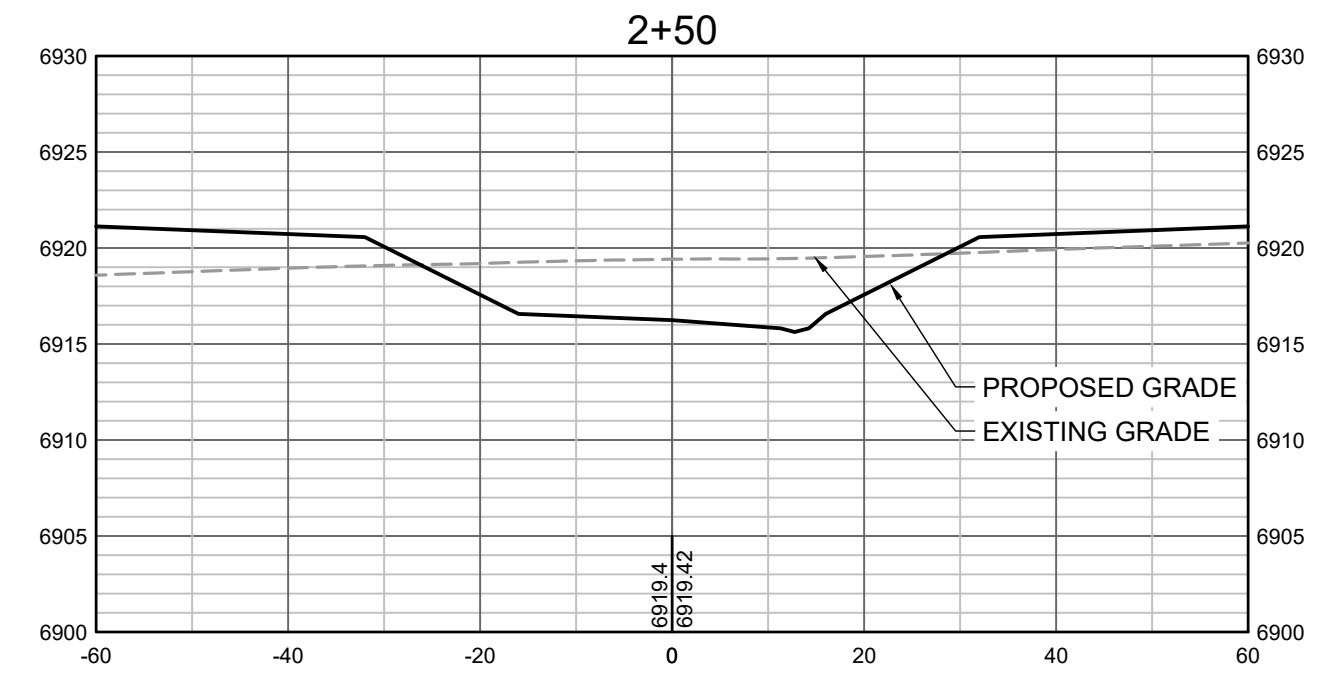
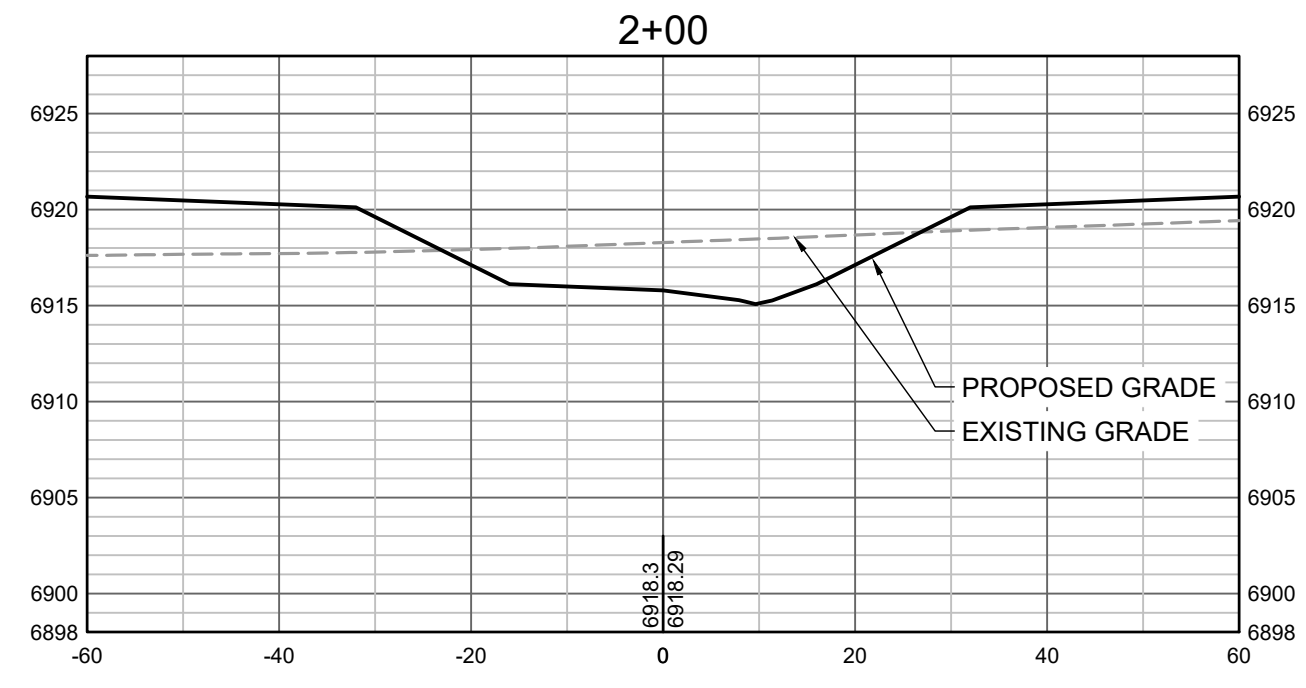
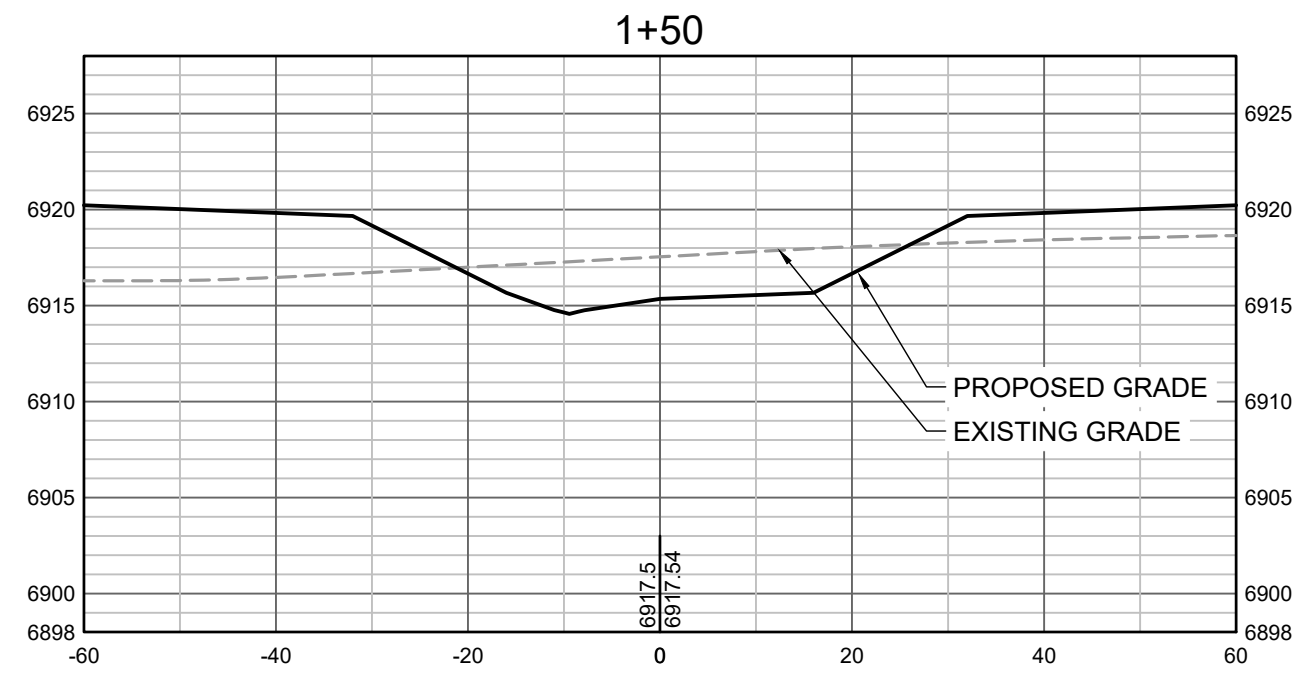
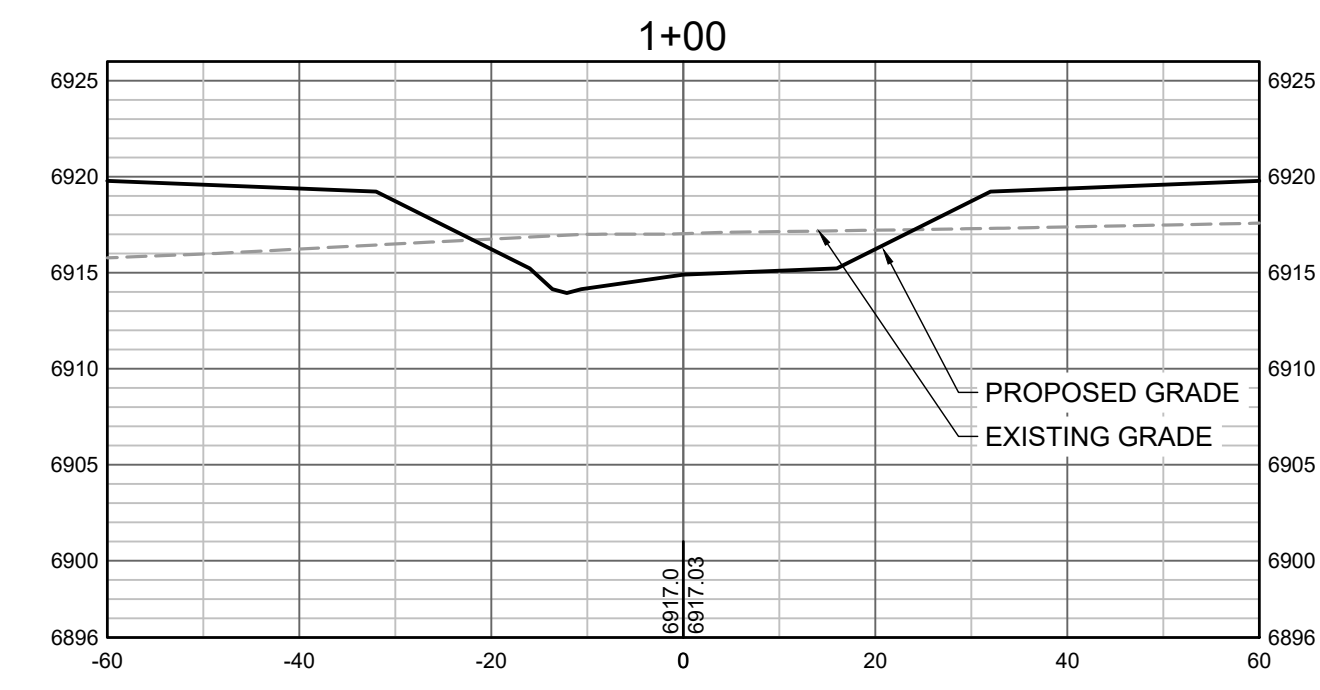
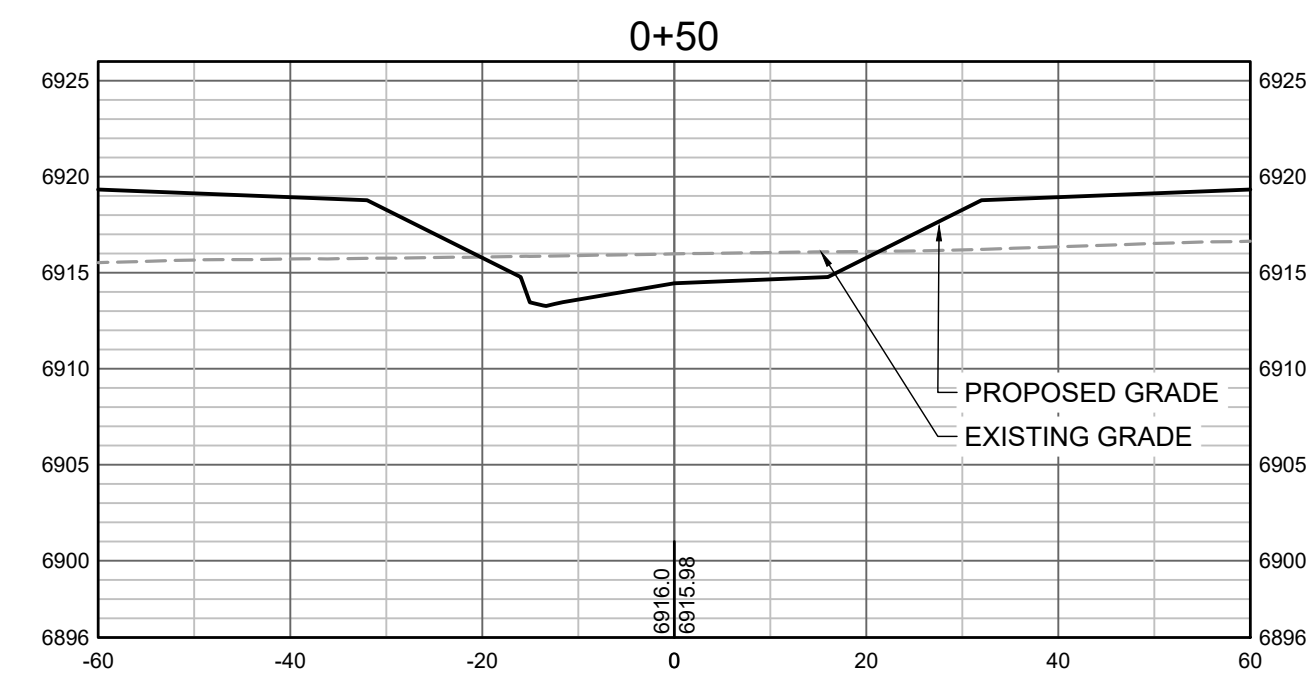
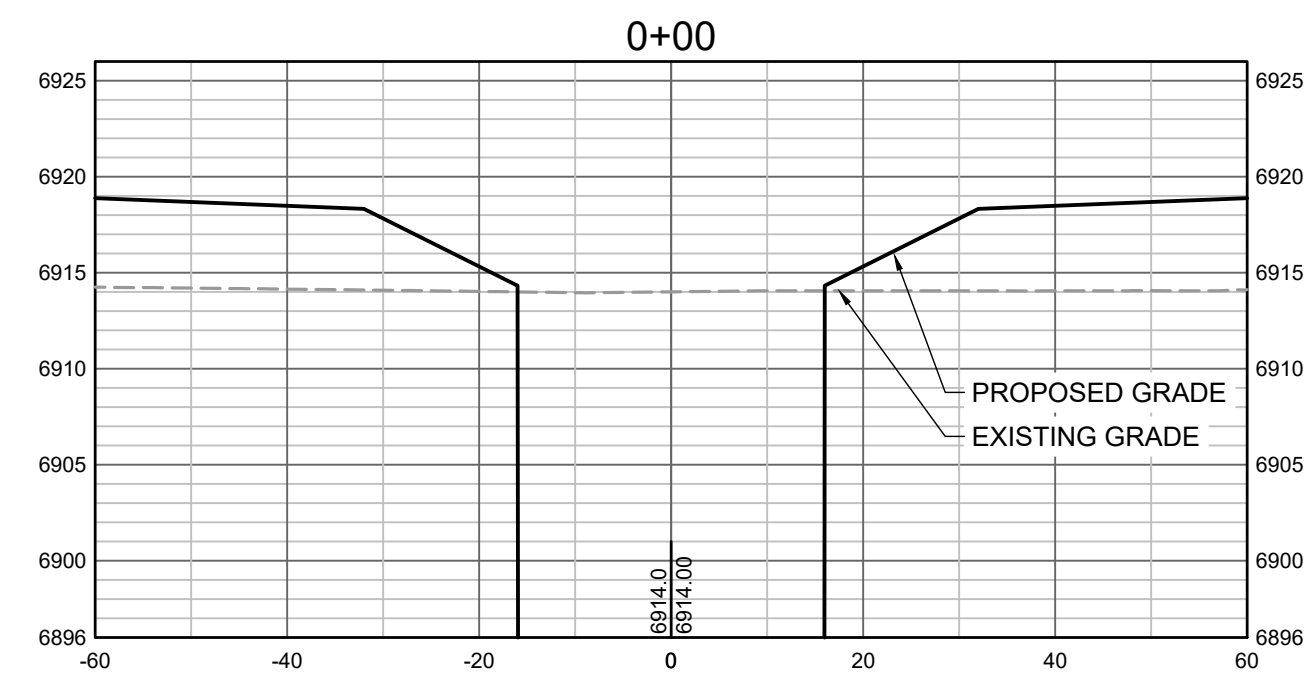
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GRANDVIEW METRO DISTRICT
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PP2 13



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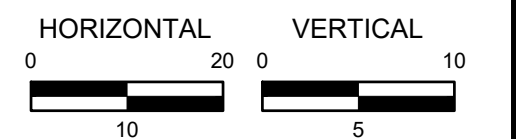
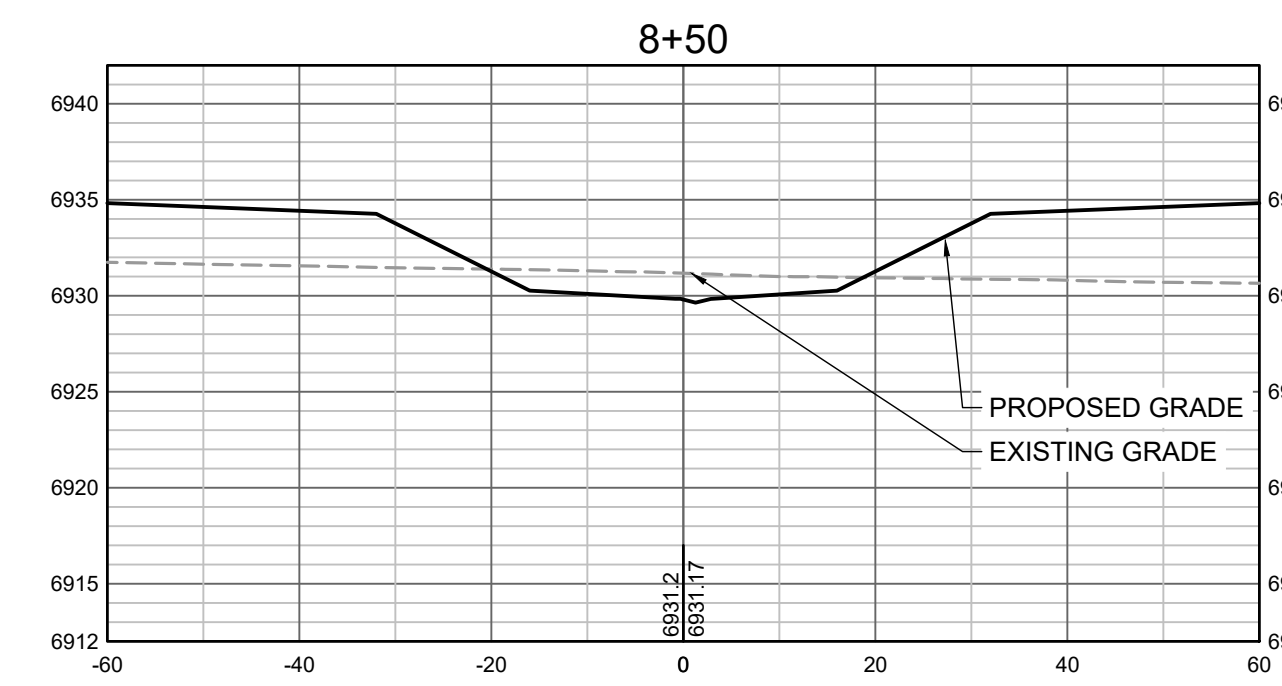
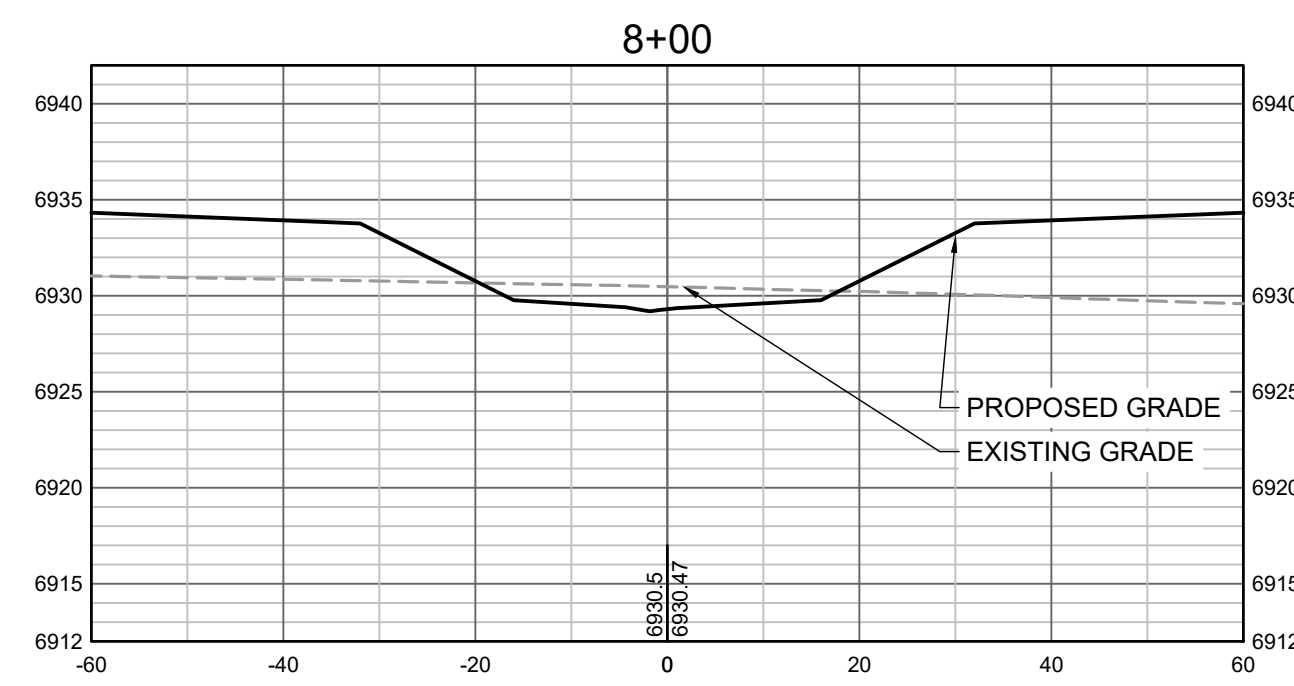
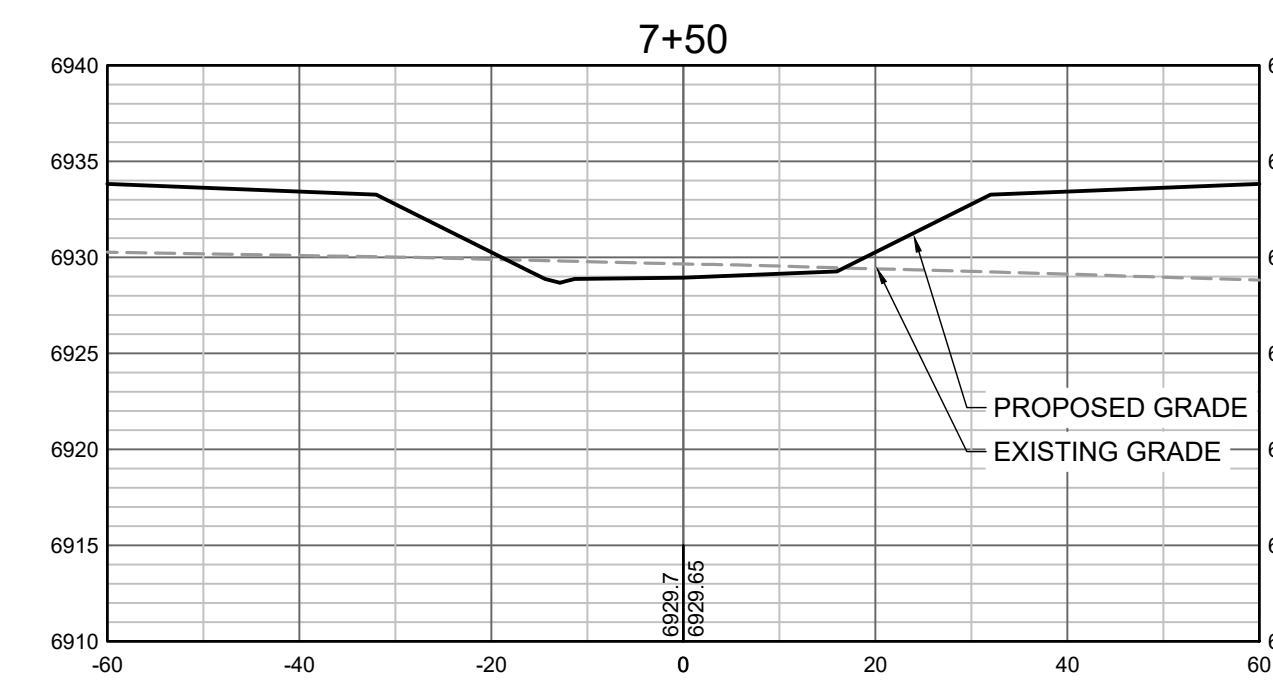
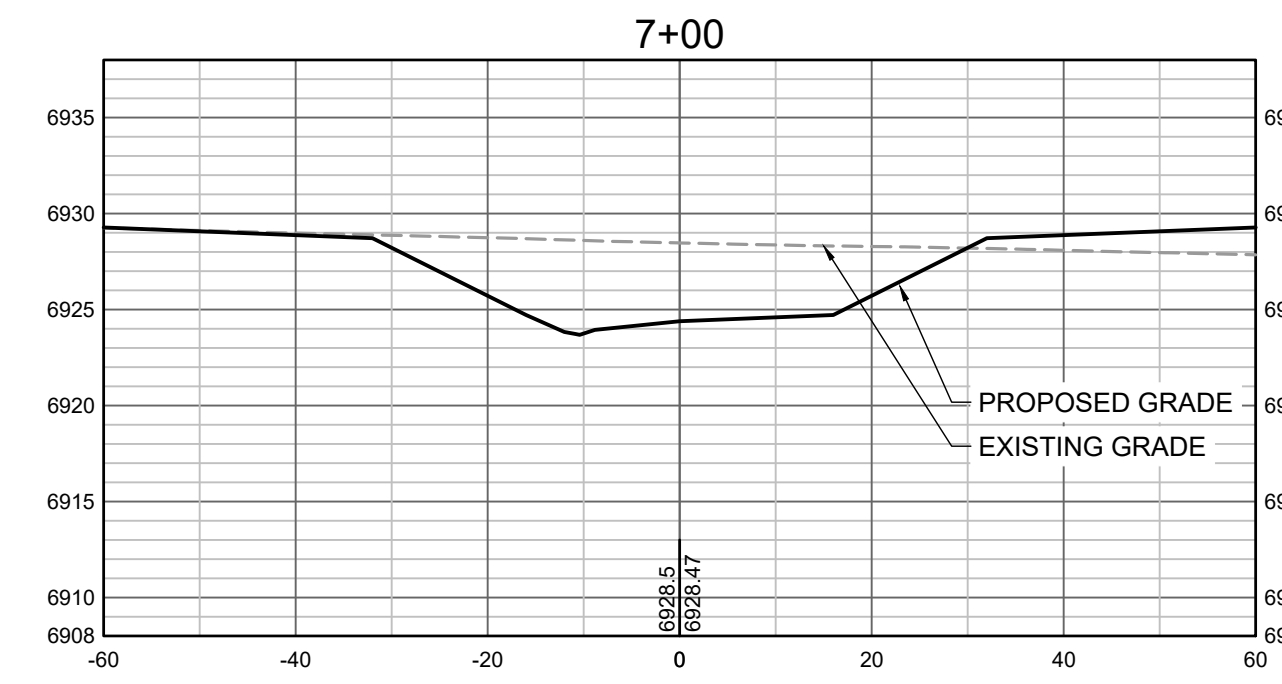
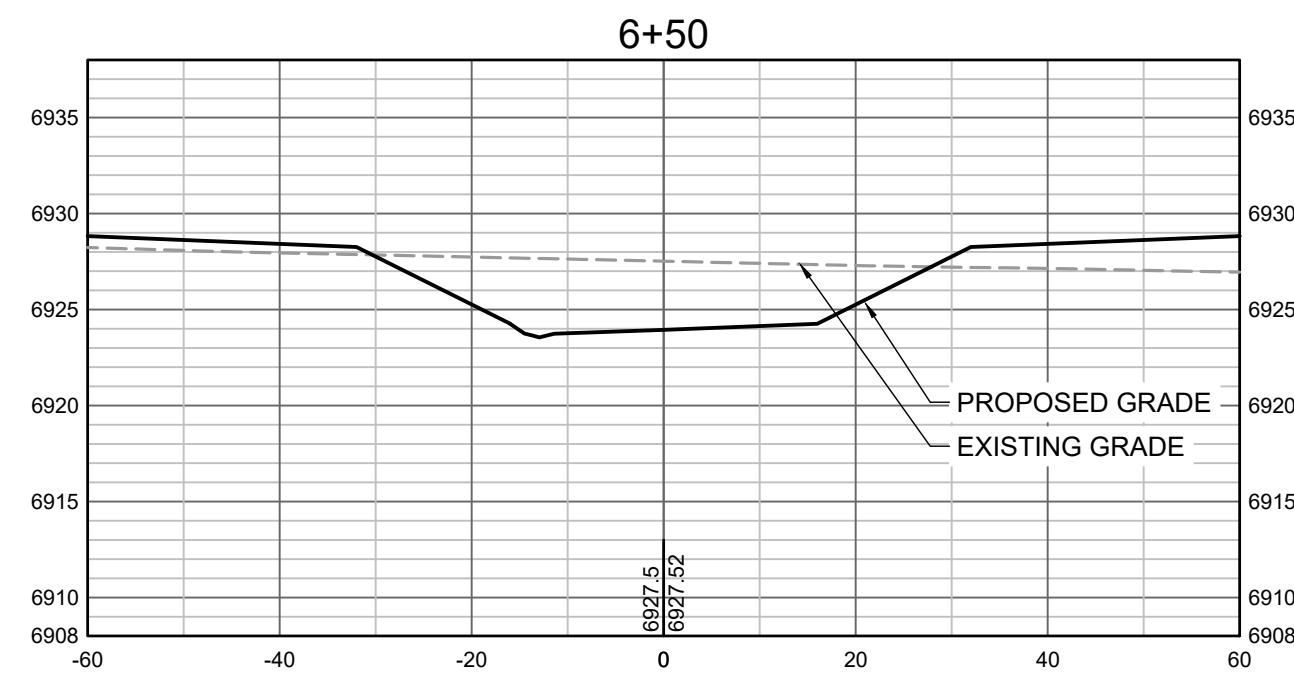
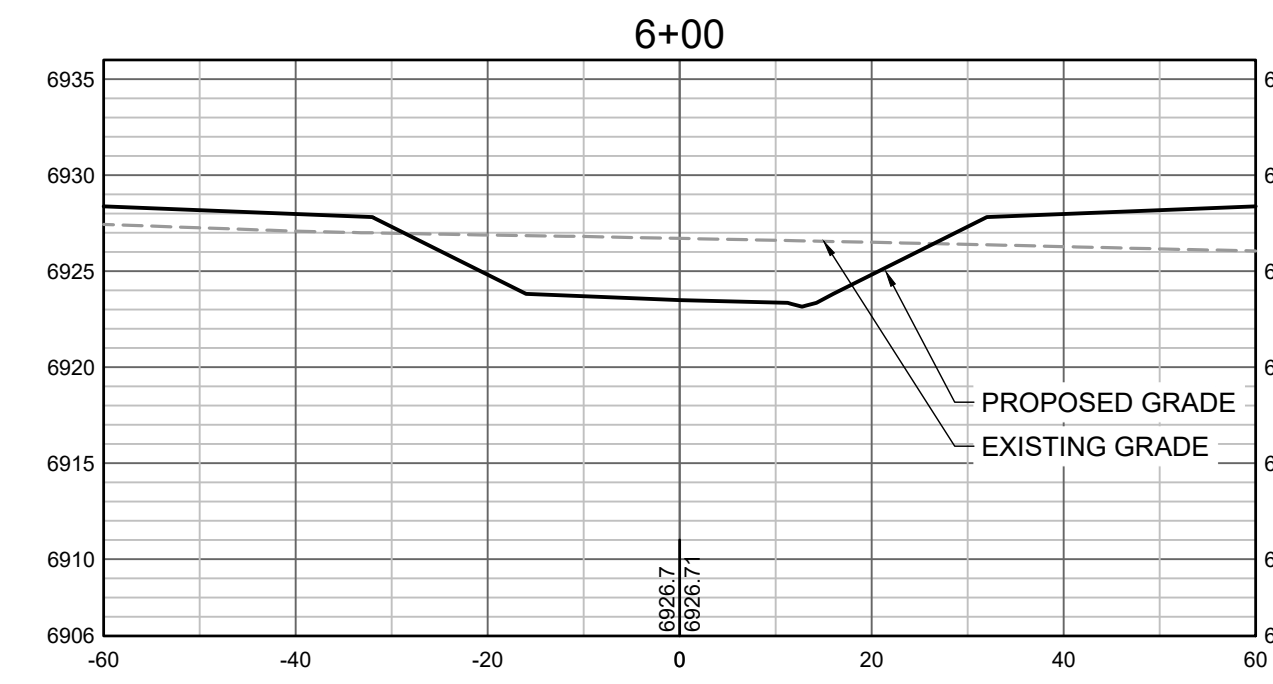
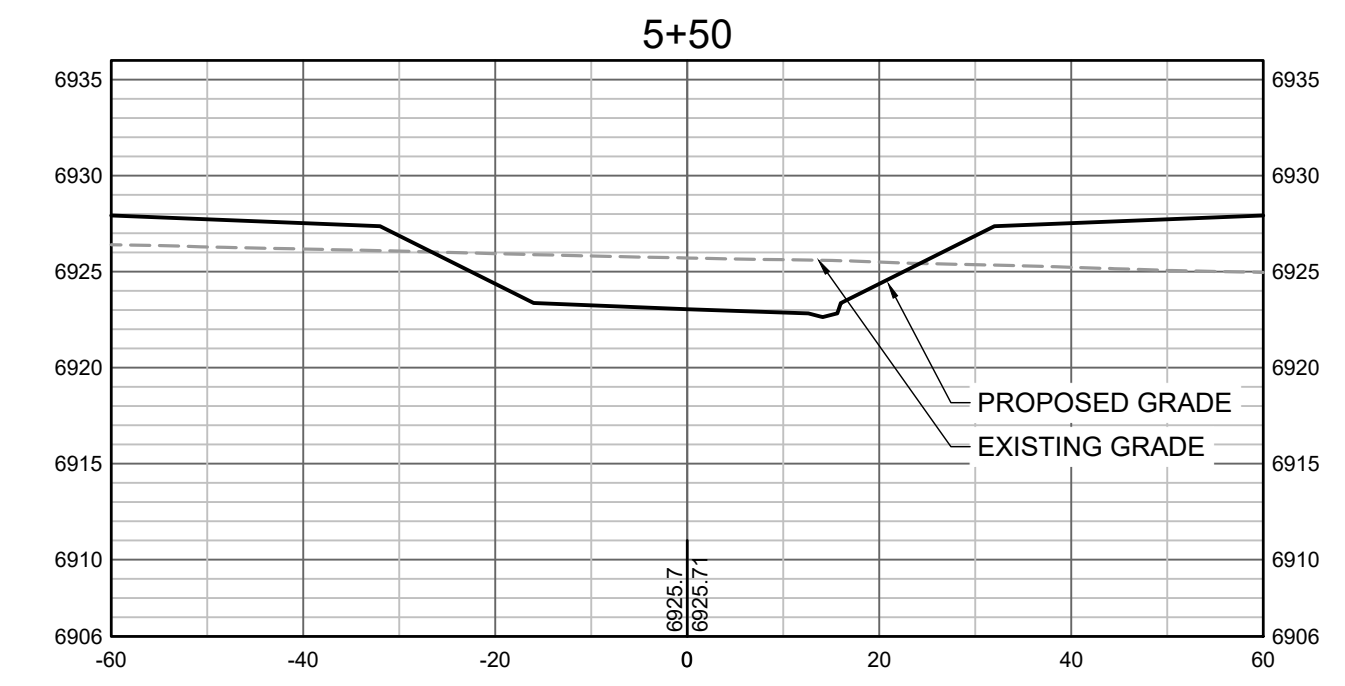
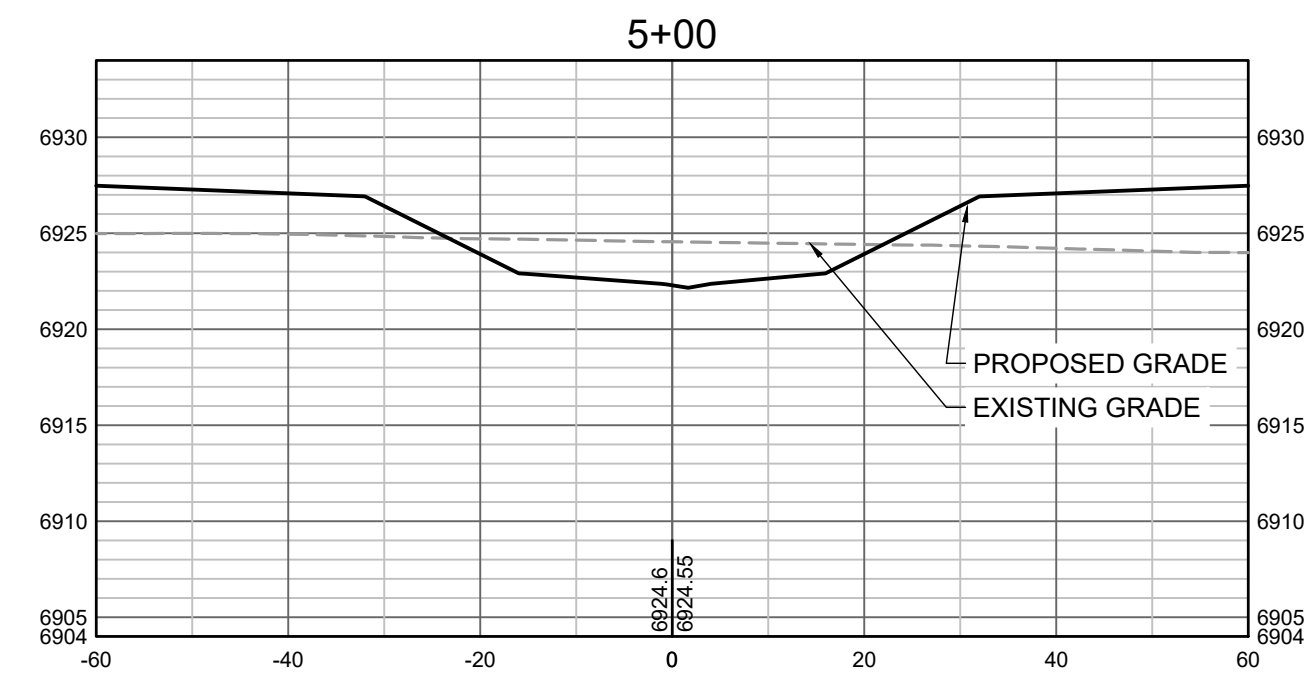
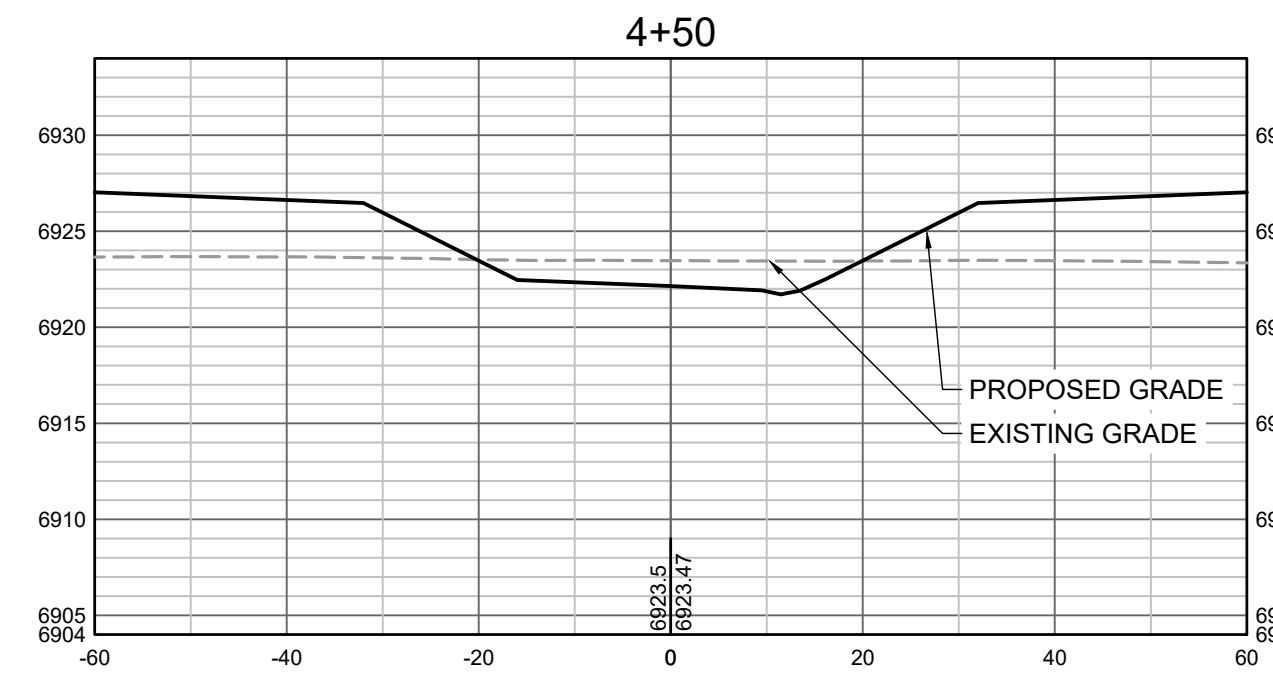


GRANDVIEW RESERVE
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GRANDVIEW METRO DISTRICT
 CROSS SECTIONS

SHEET NO.
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HR GREEN Xref: xref1-dh01



HR GREEN Xrefs: xgs-1-dh01

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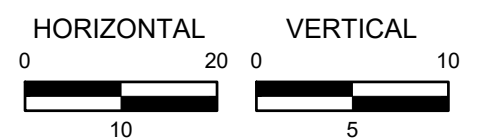
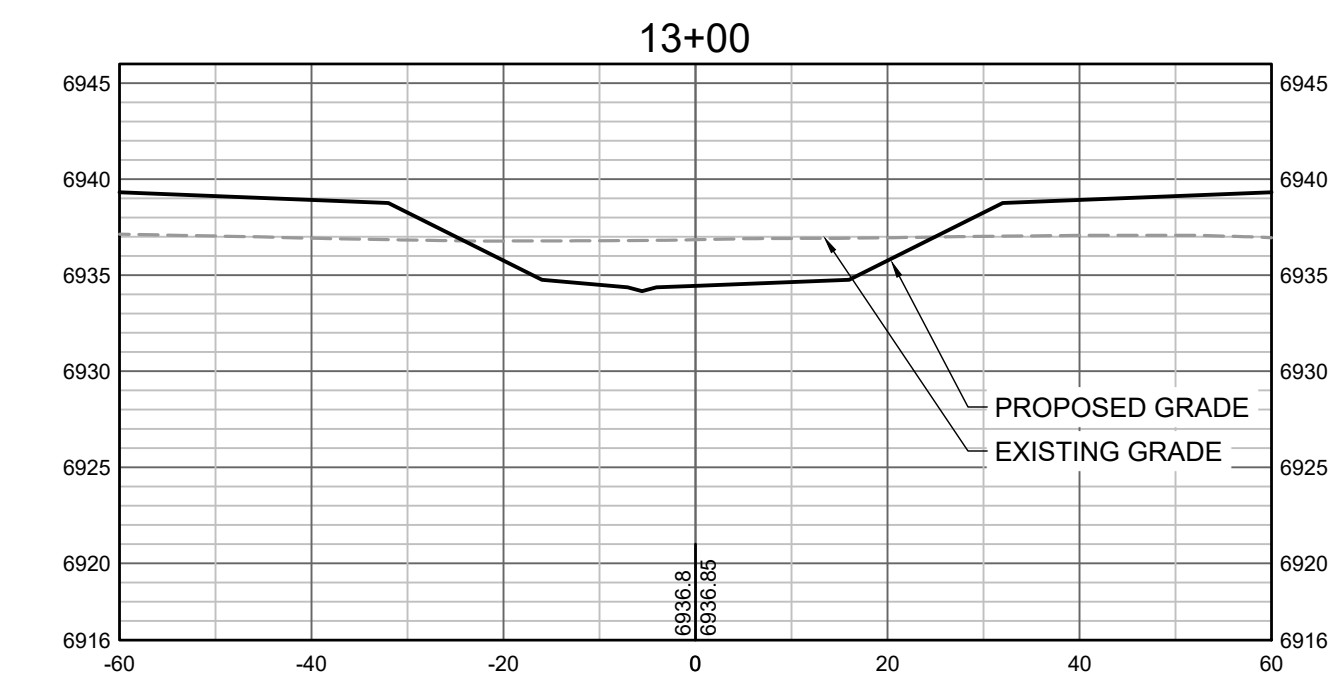
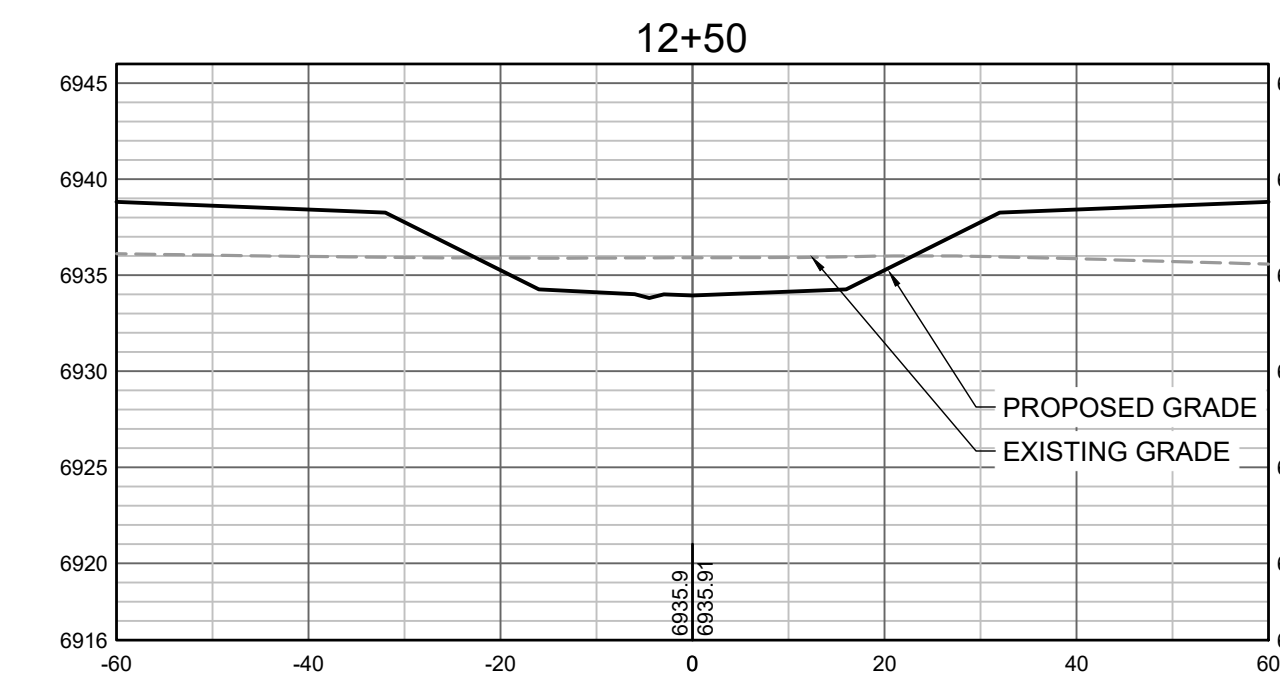
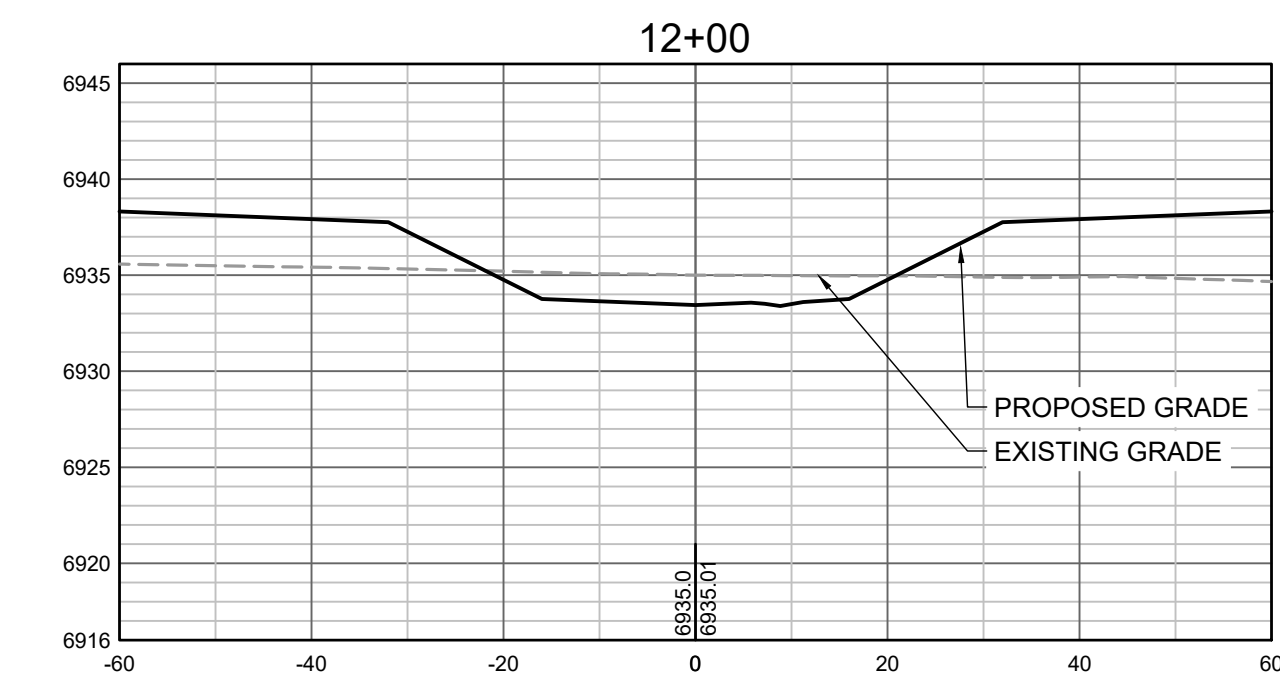
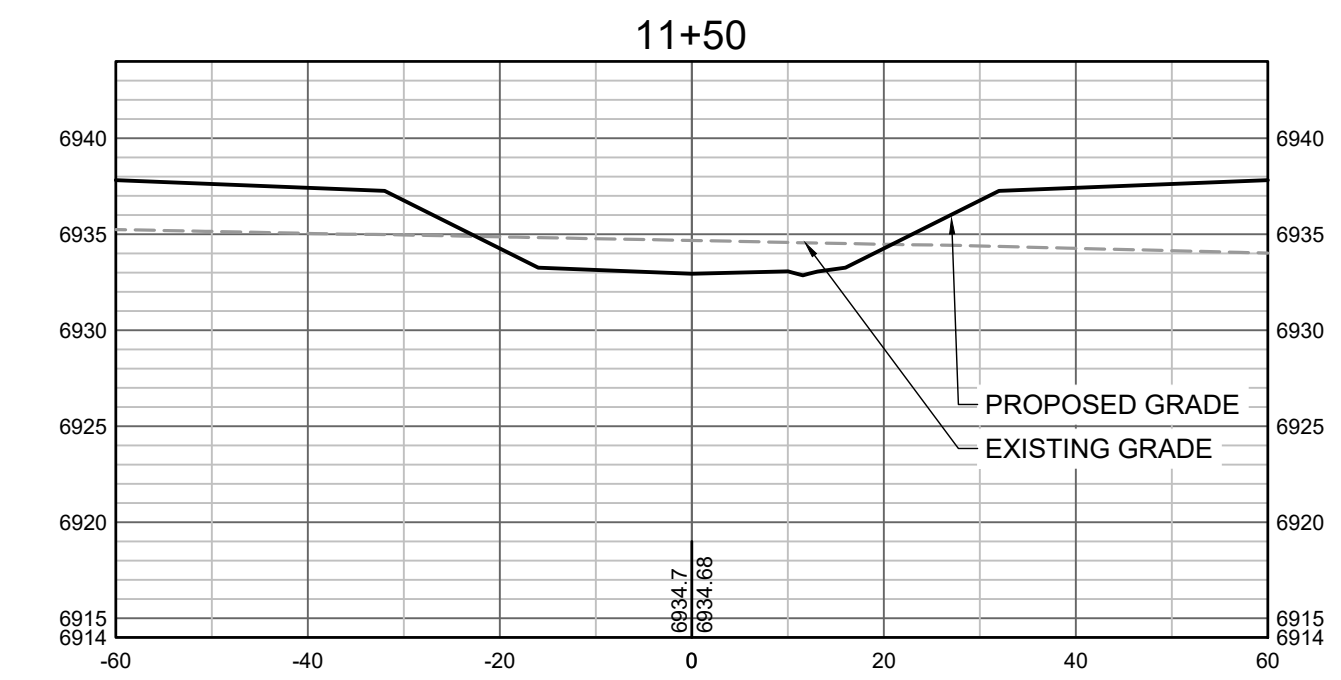
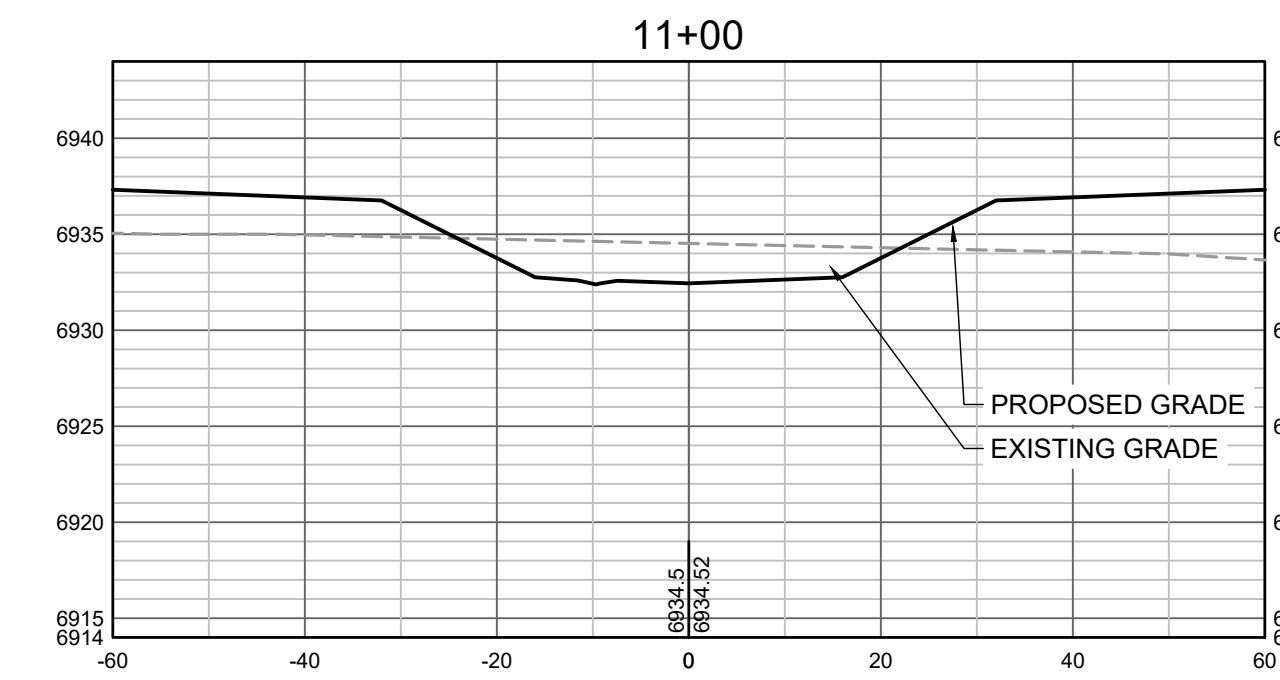
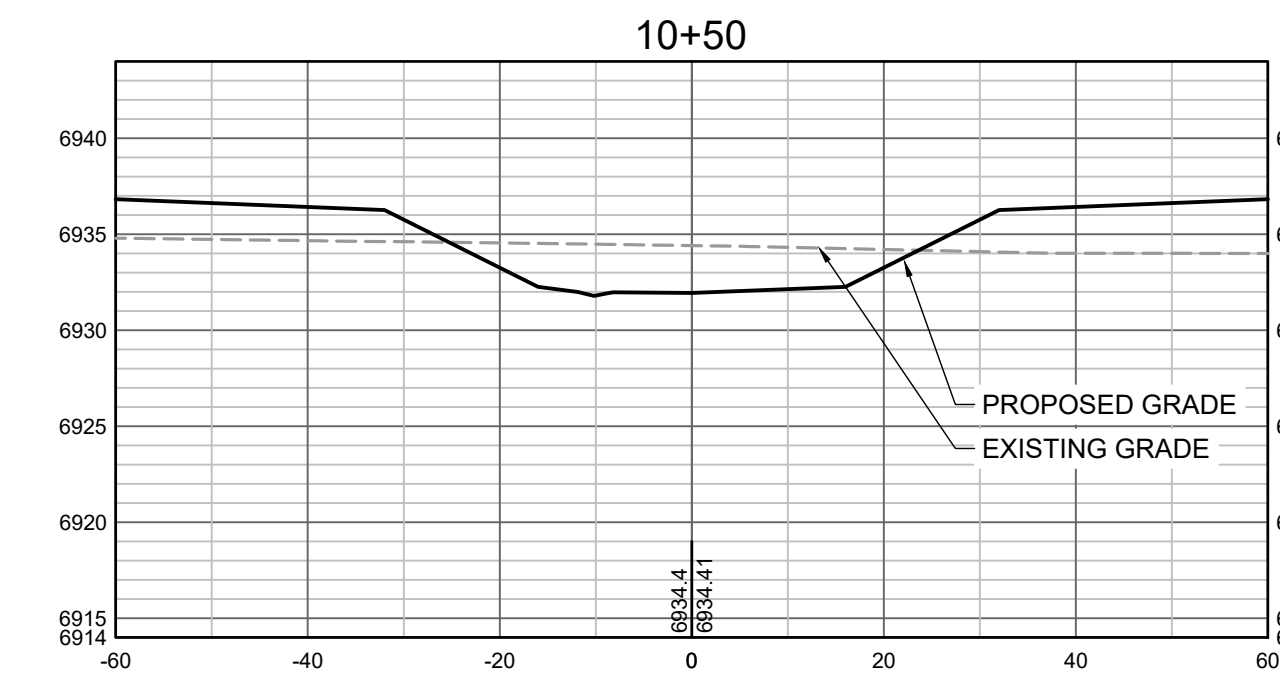
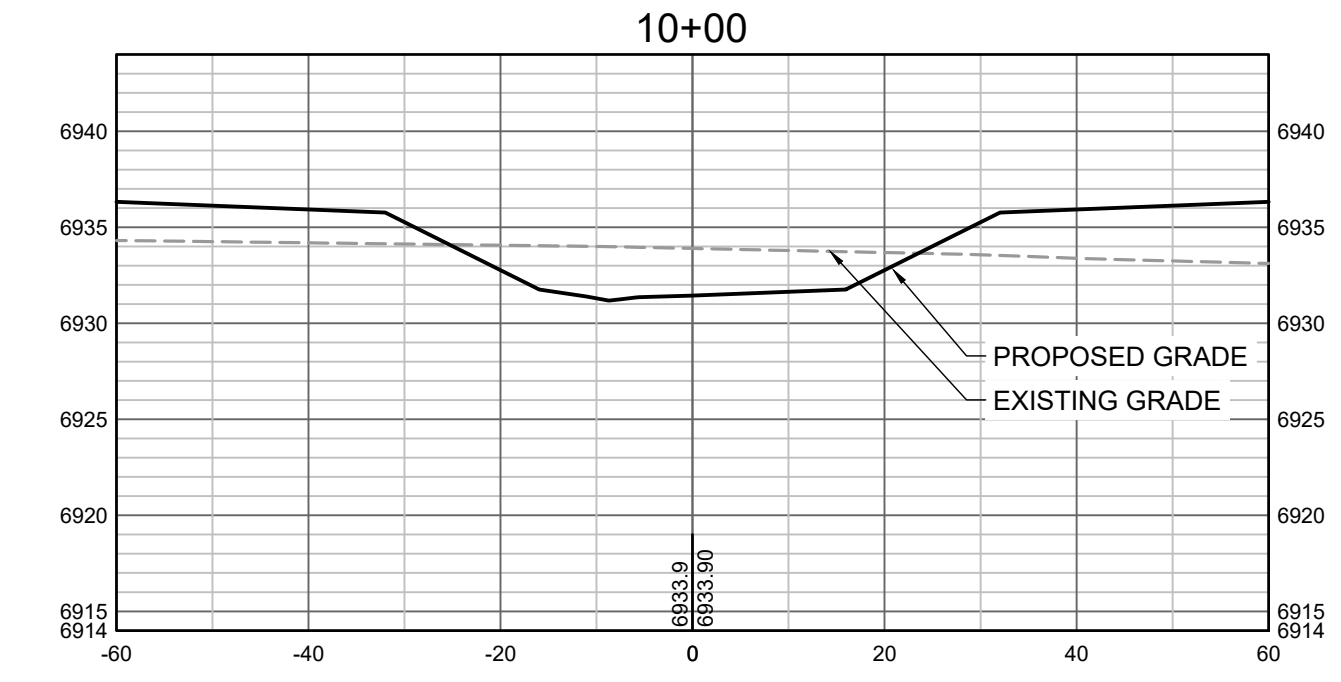
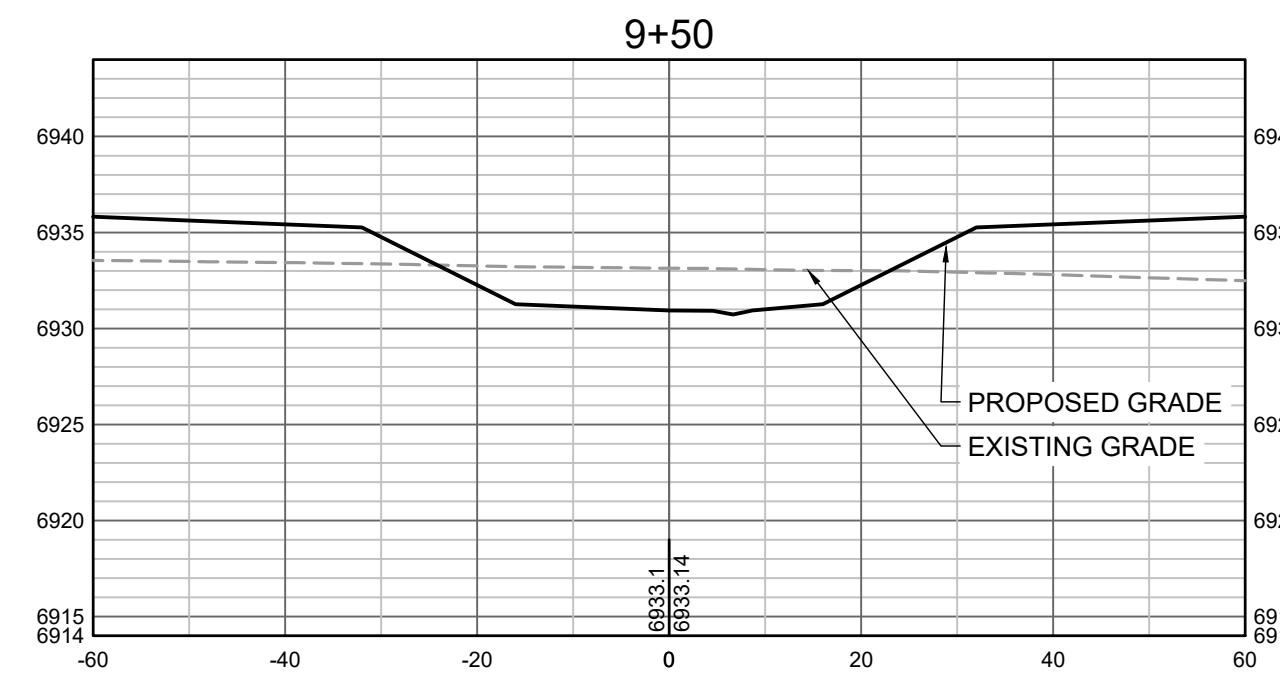
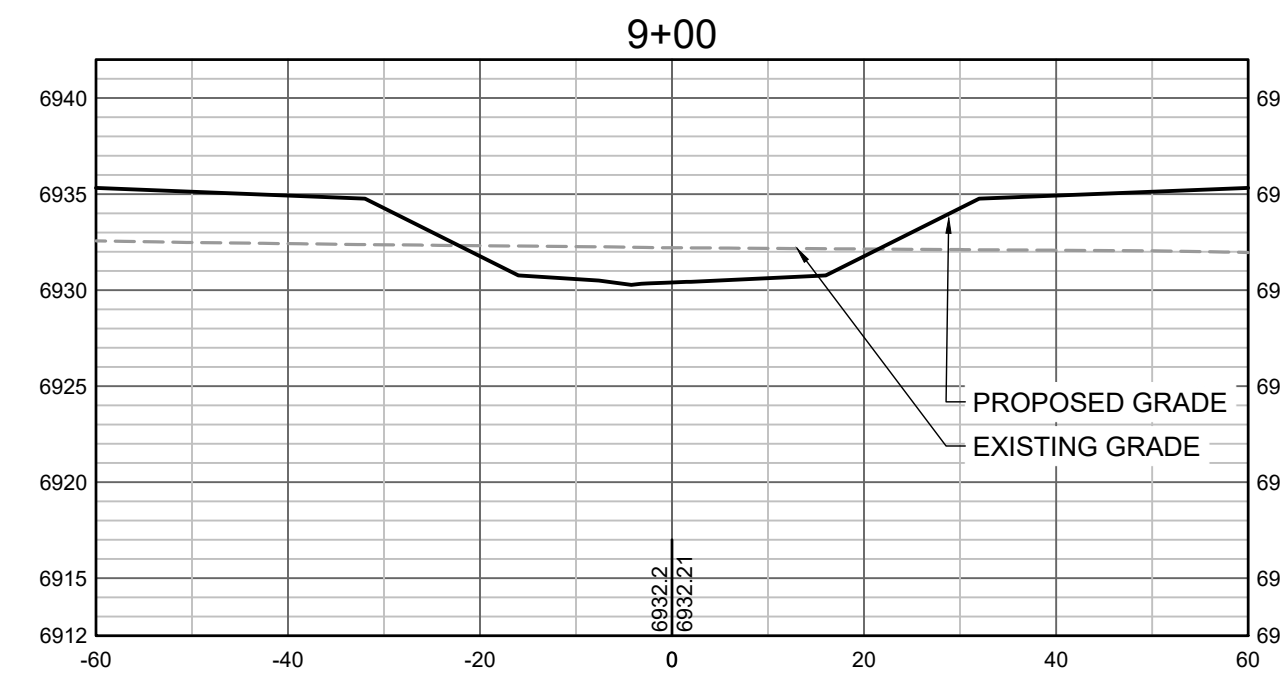
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GRANDVIEW METRO DISTRICT
 CROSS SECTIONS

SHEET NO.
CS2 16



DRAWN BY: TBI JOB DATE: 11/4/2021
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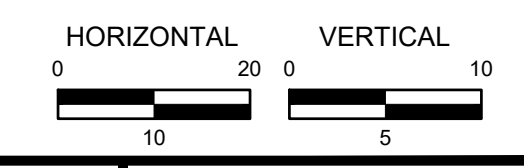
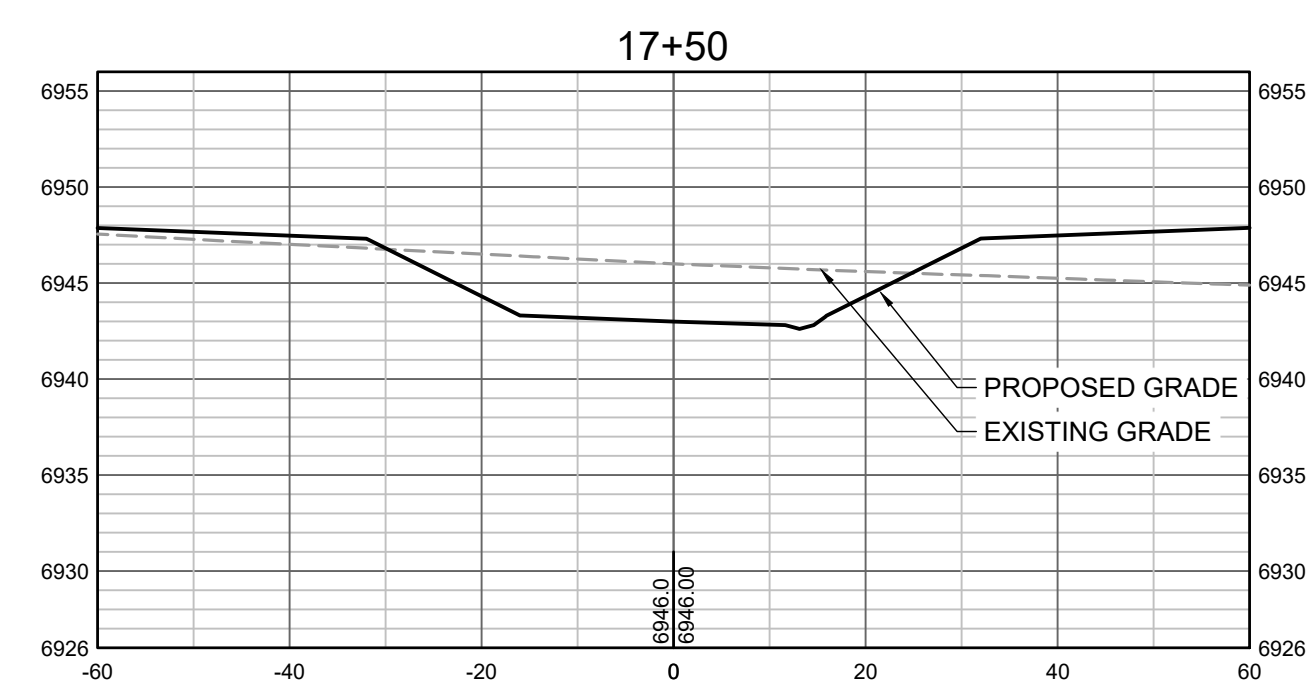
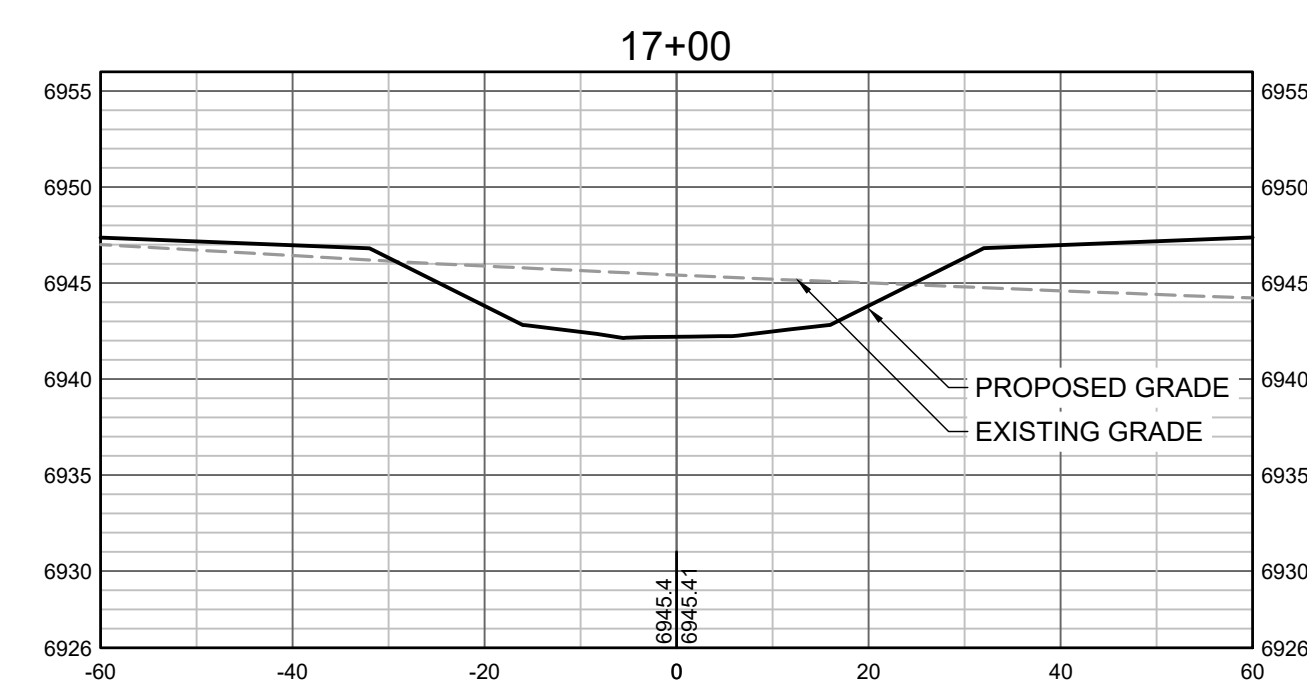
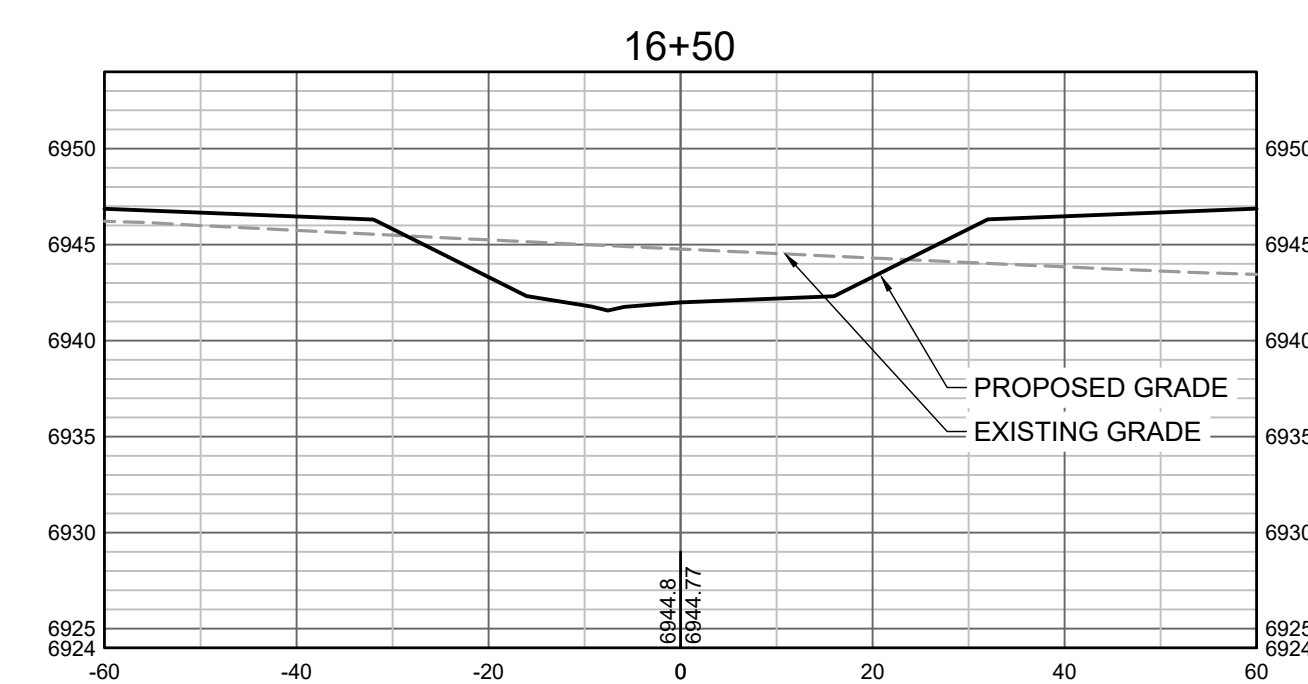
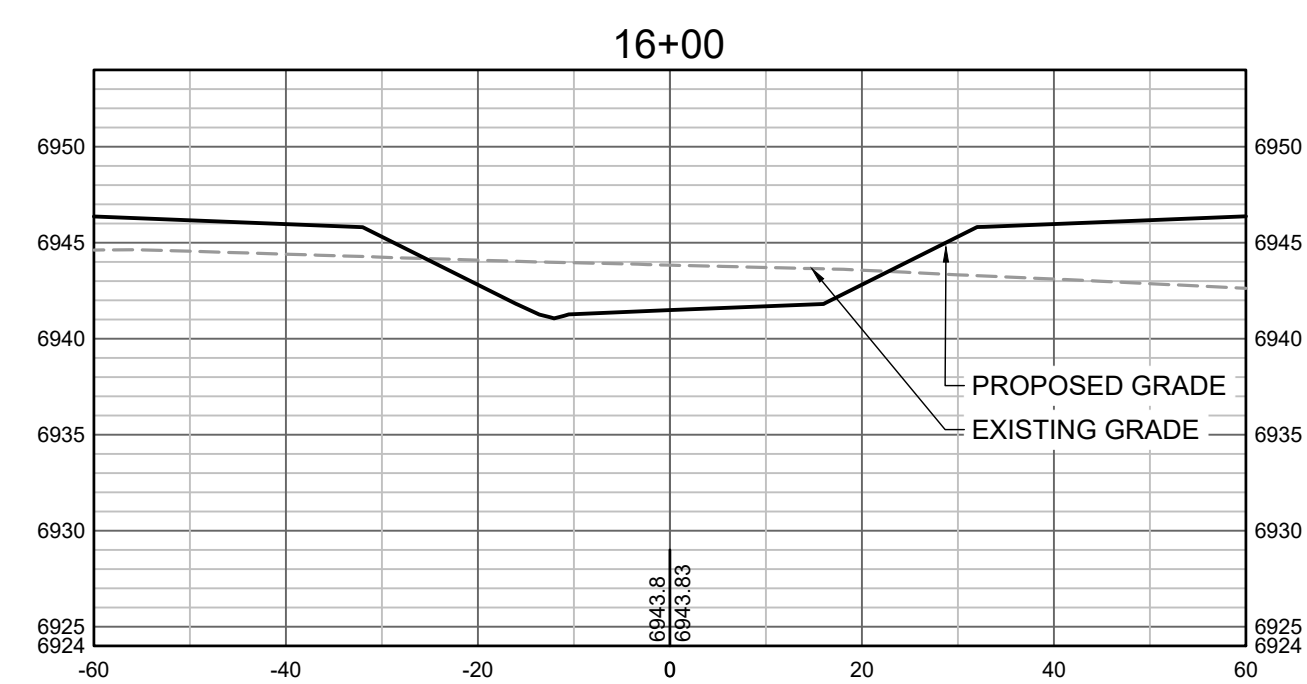
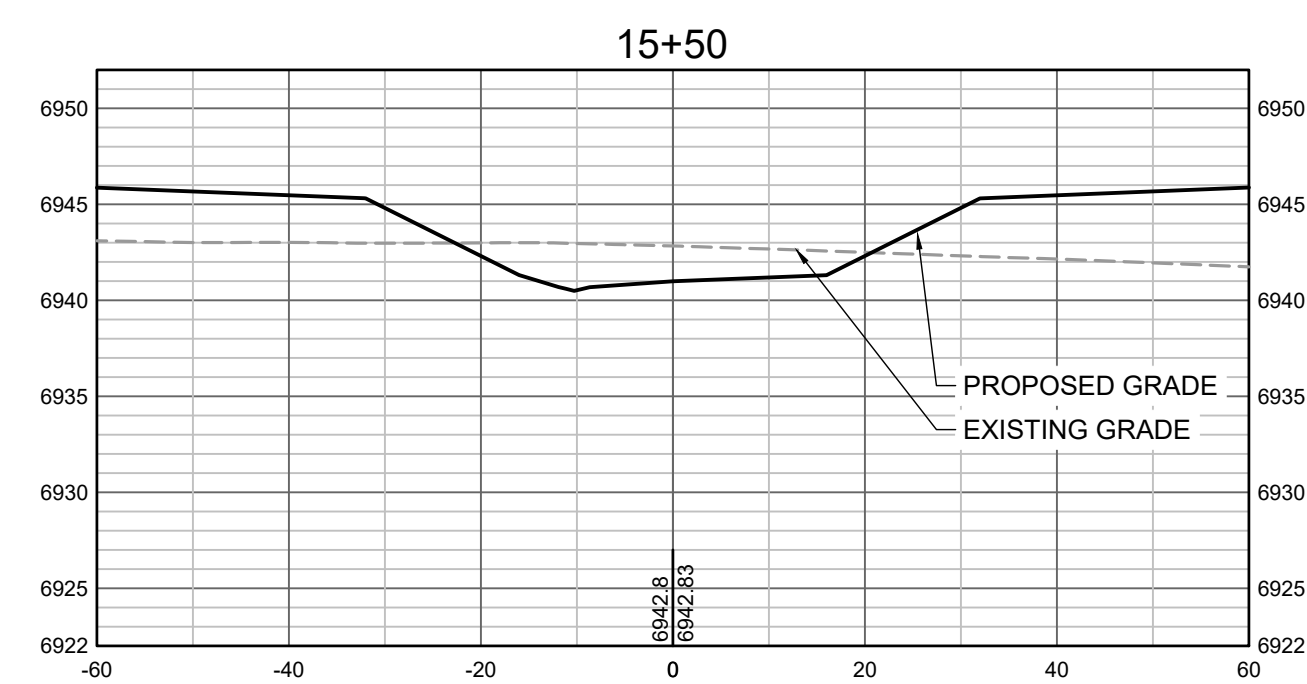
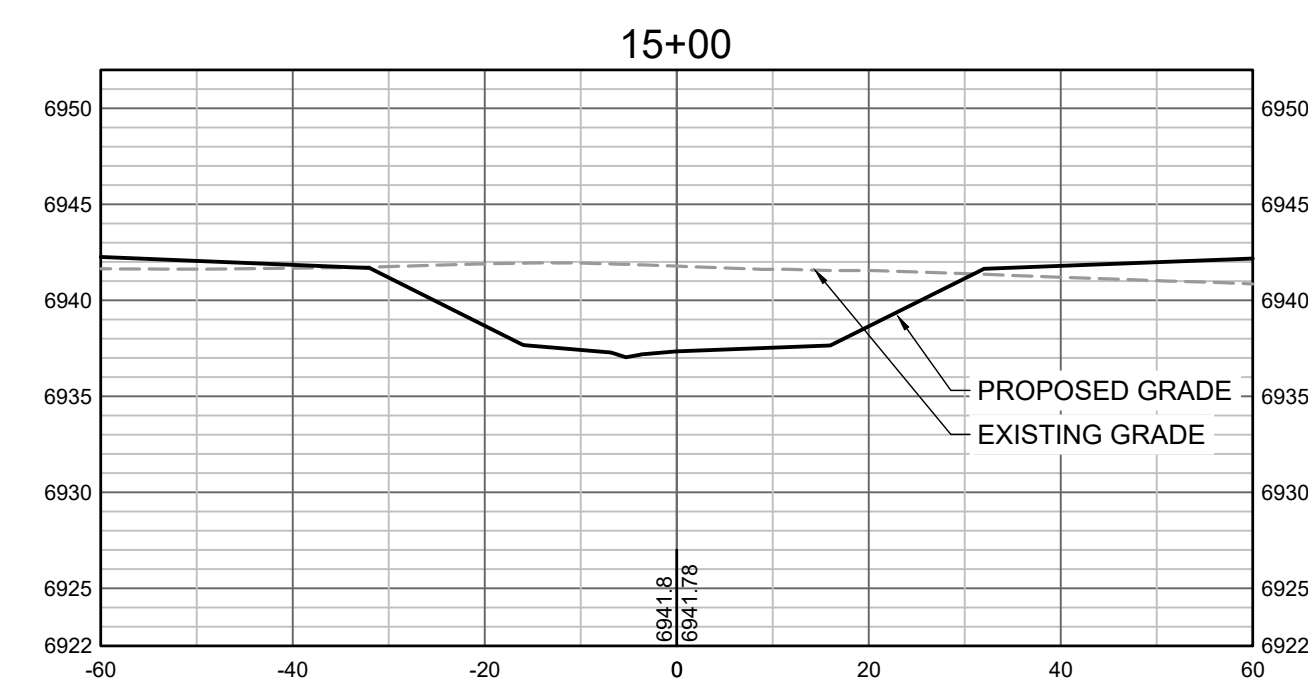
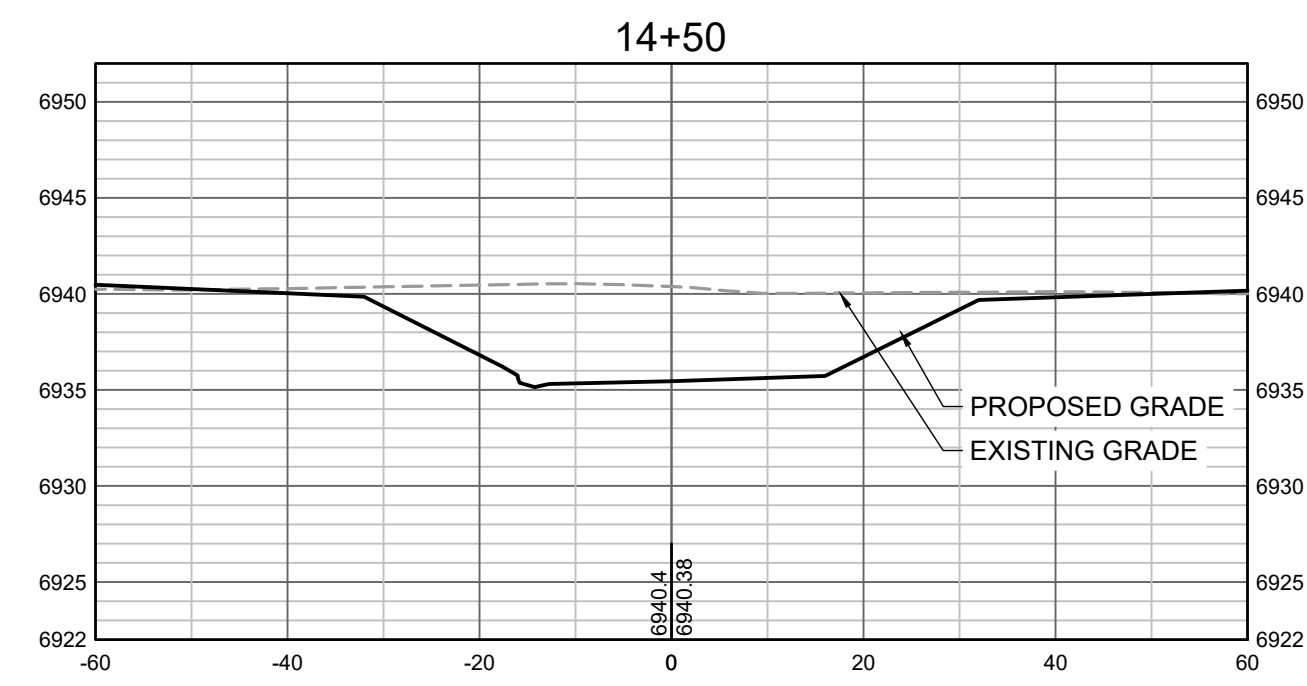
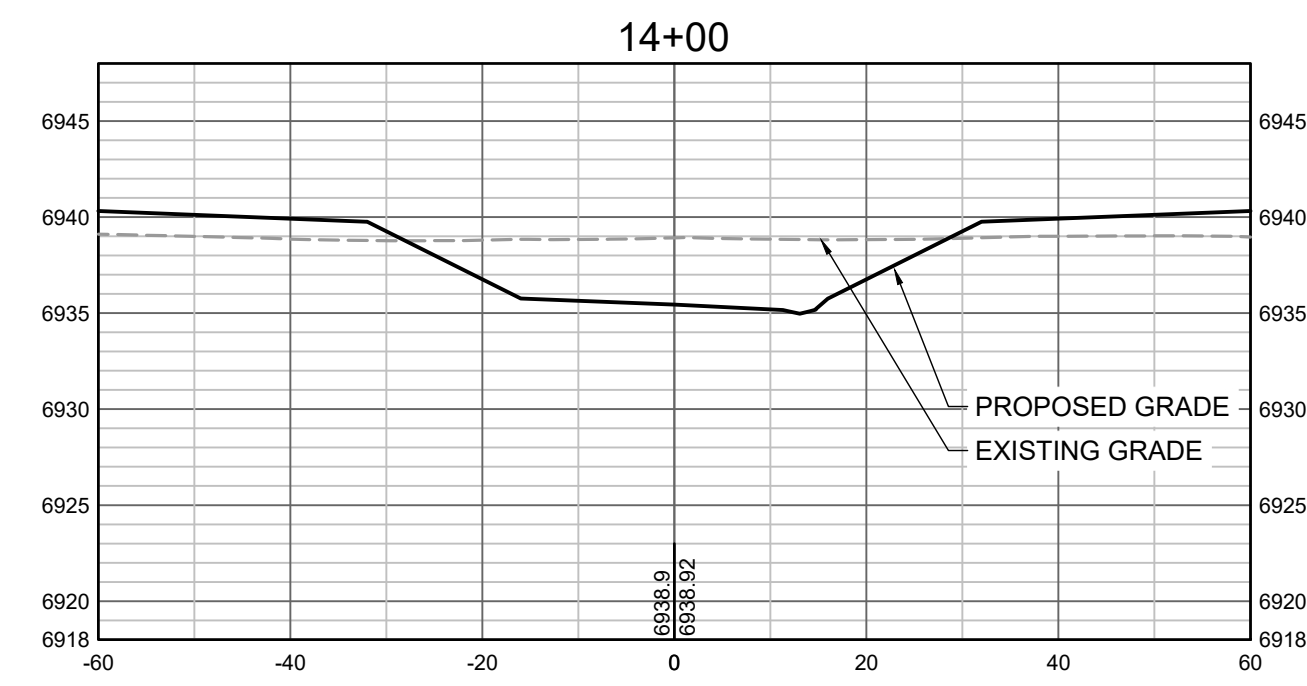
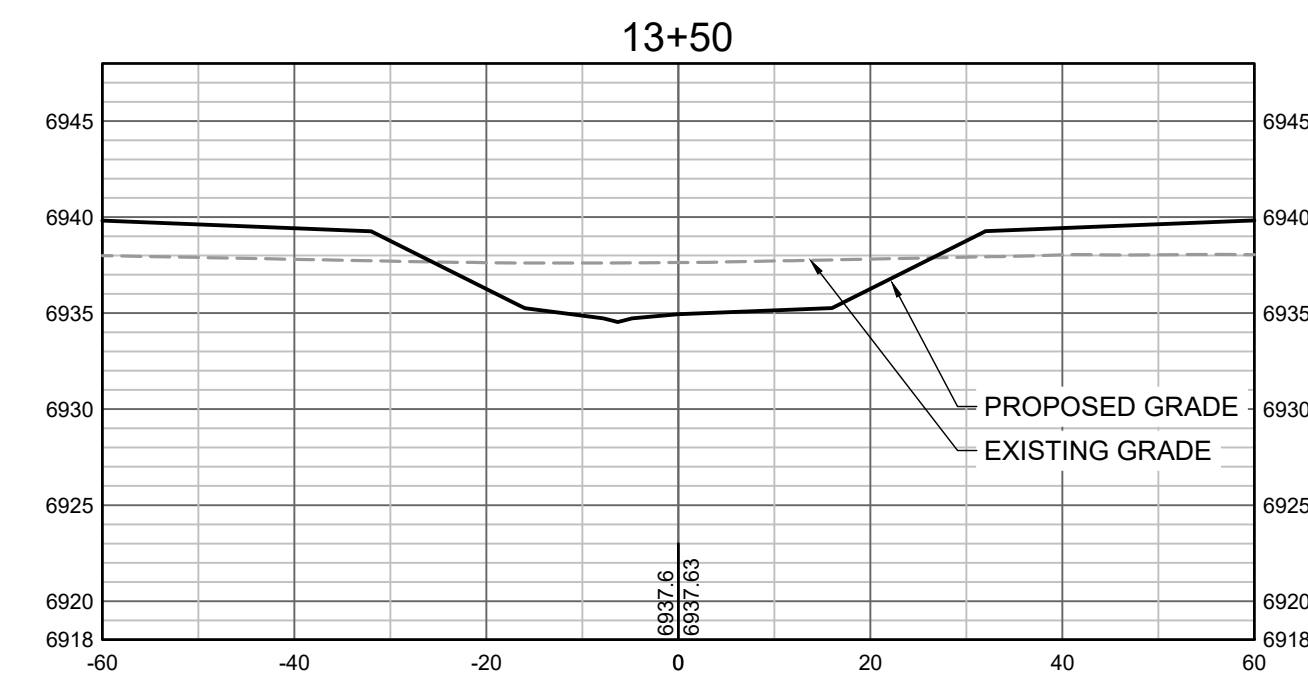
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CS3 17



HR GREEN Xrefs: xgs1-dh01

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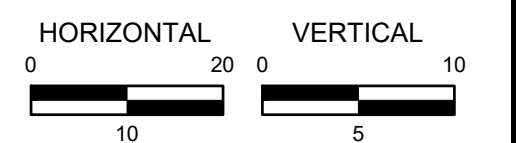
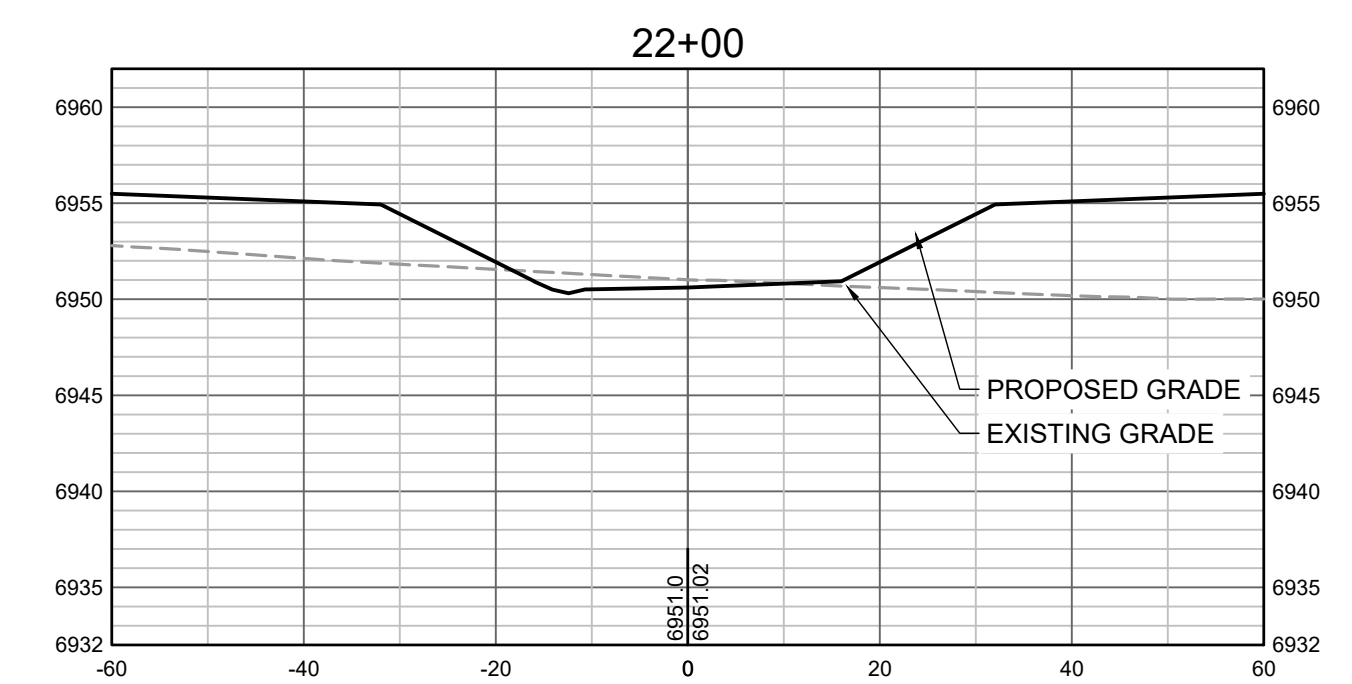
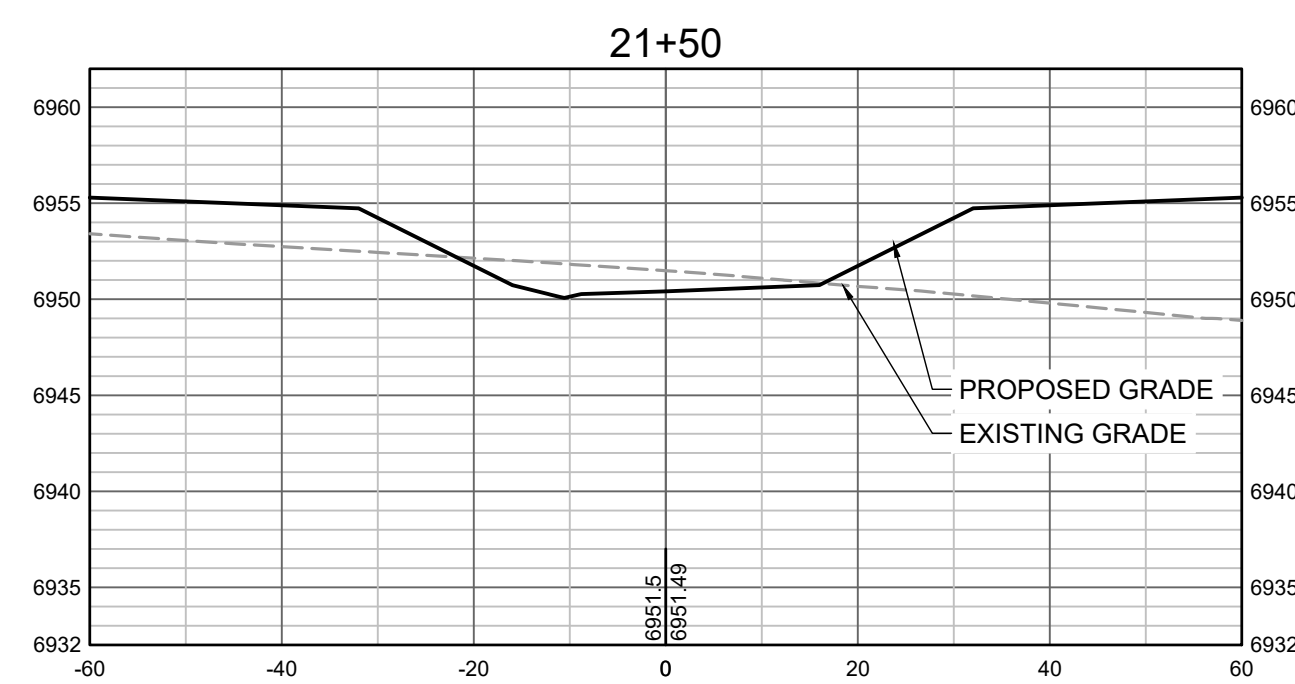
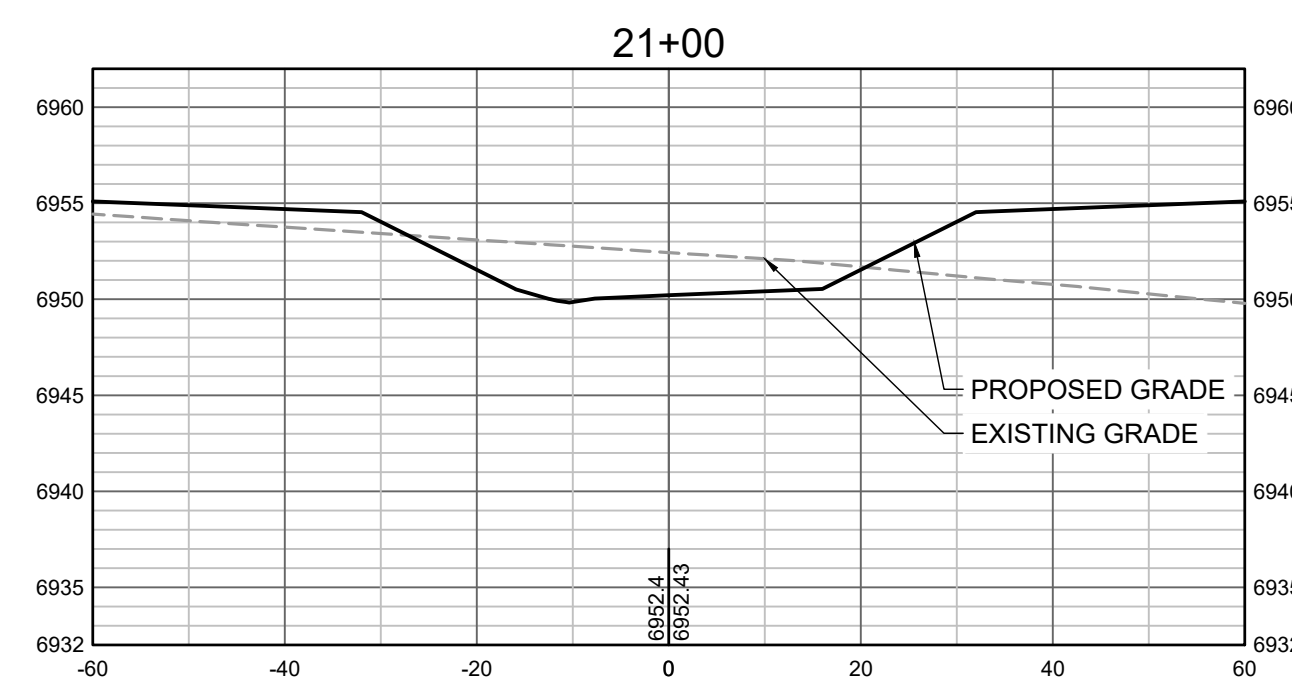
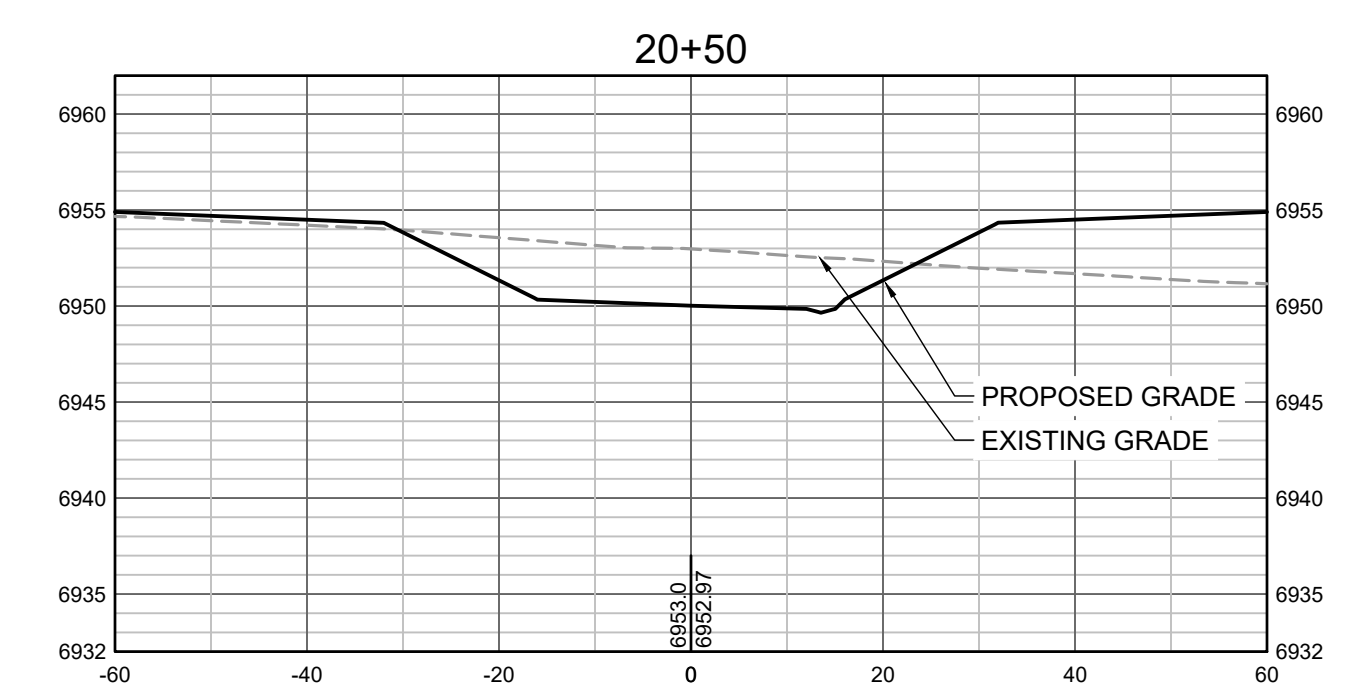
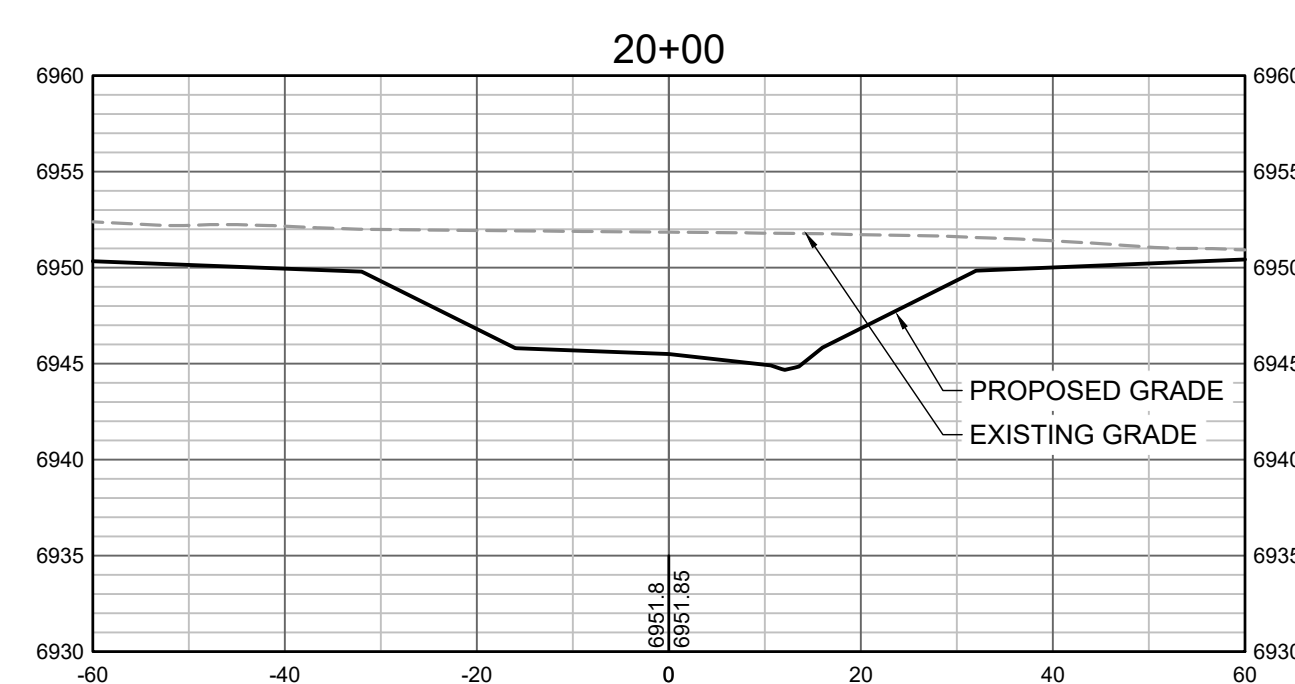
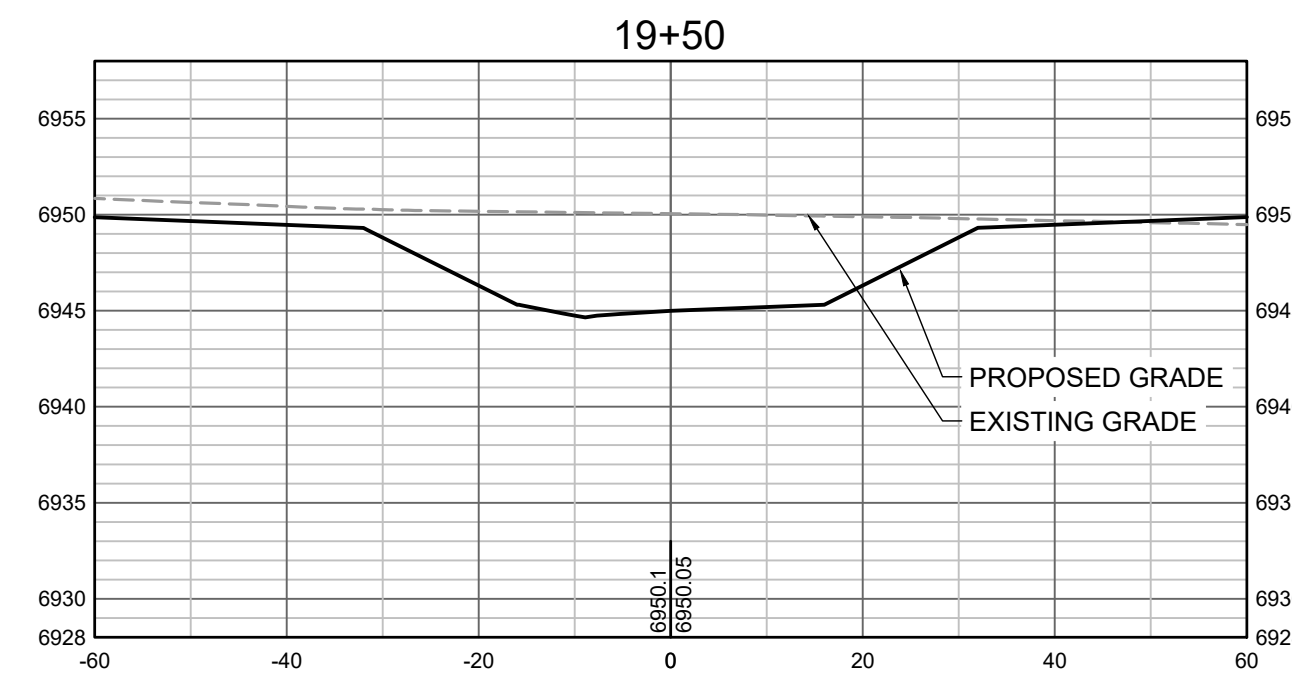
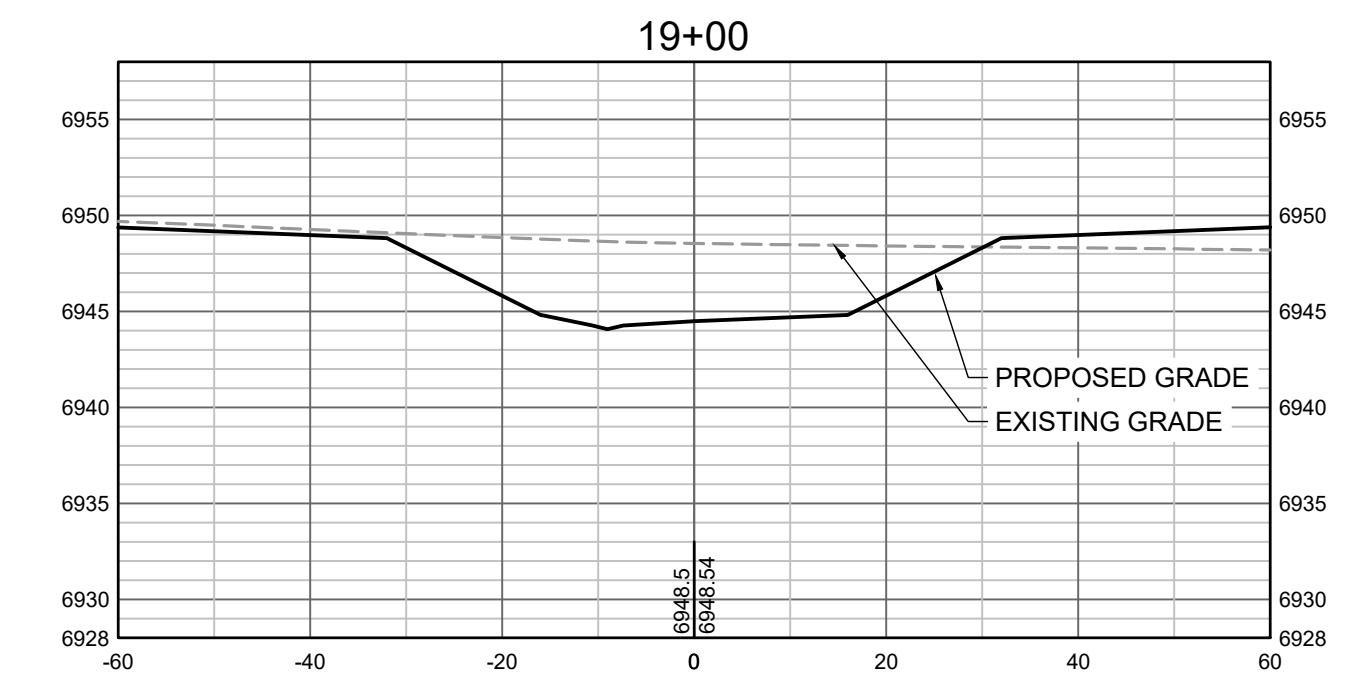
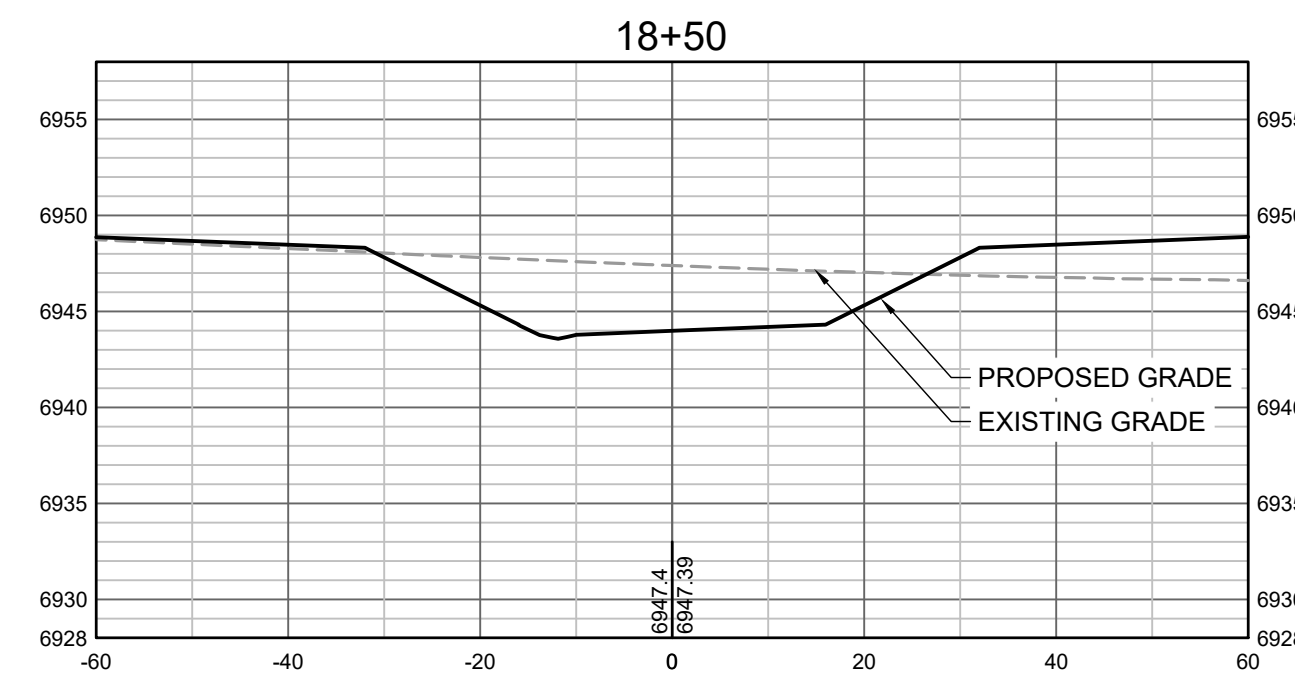
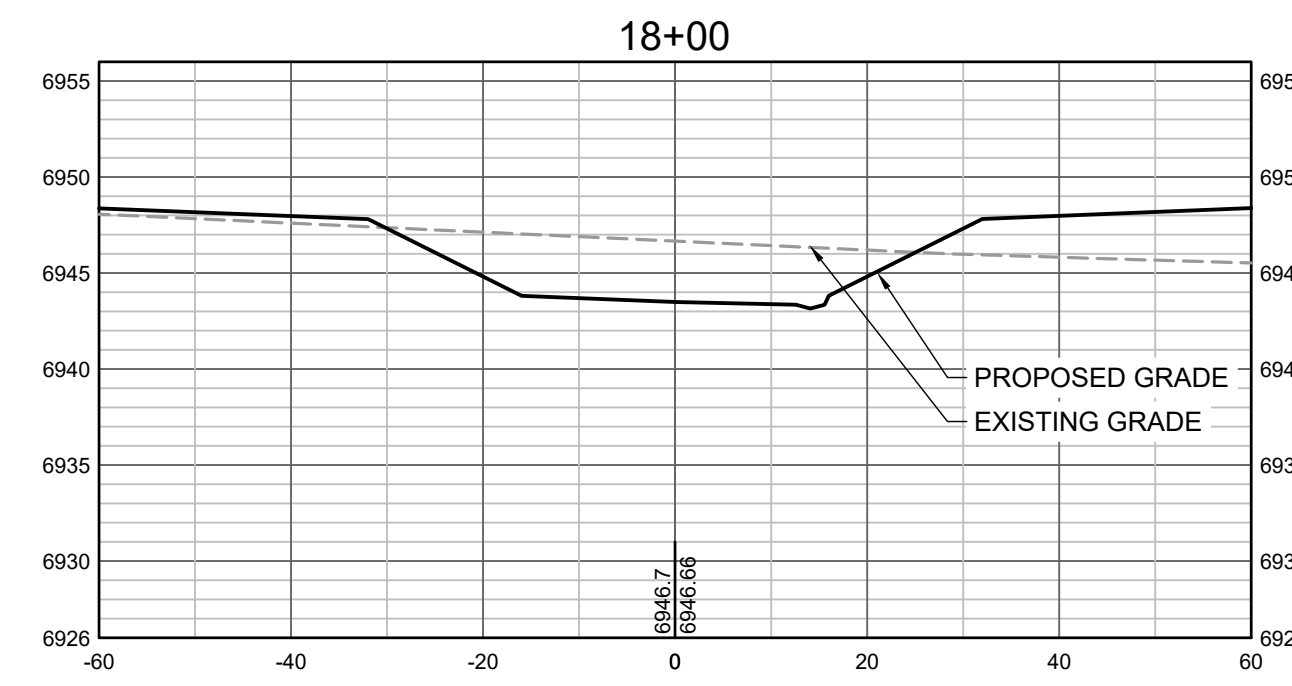
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CS4 18



HR GREEN Xrefs: xgs-1-dh01

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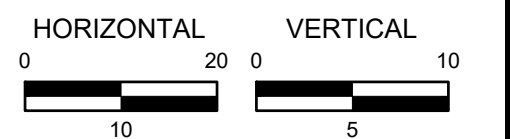
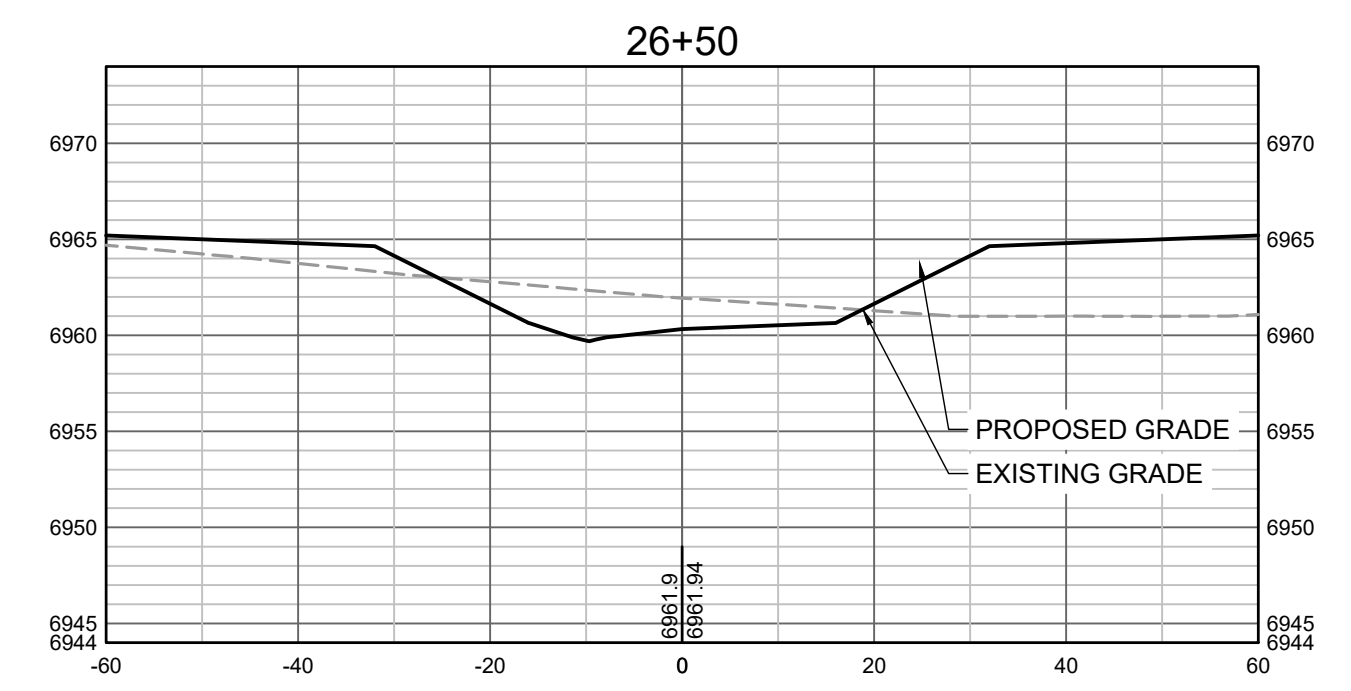
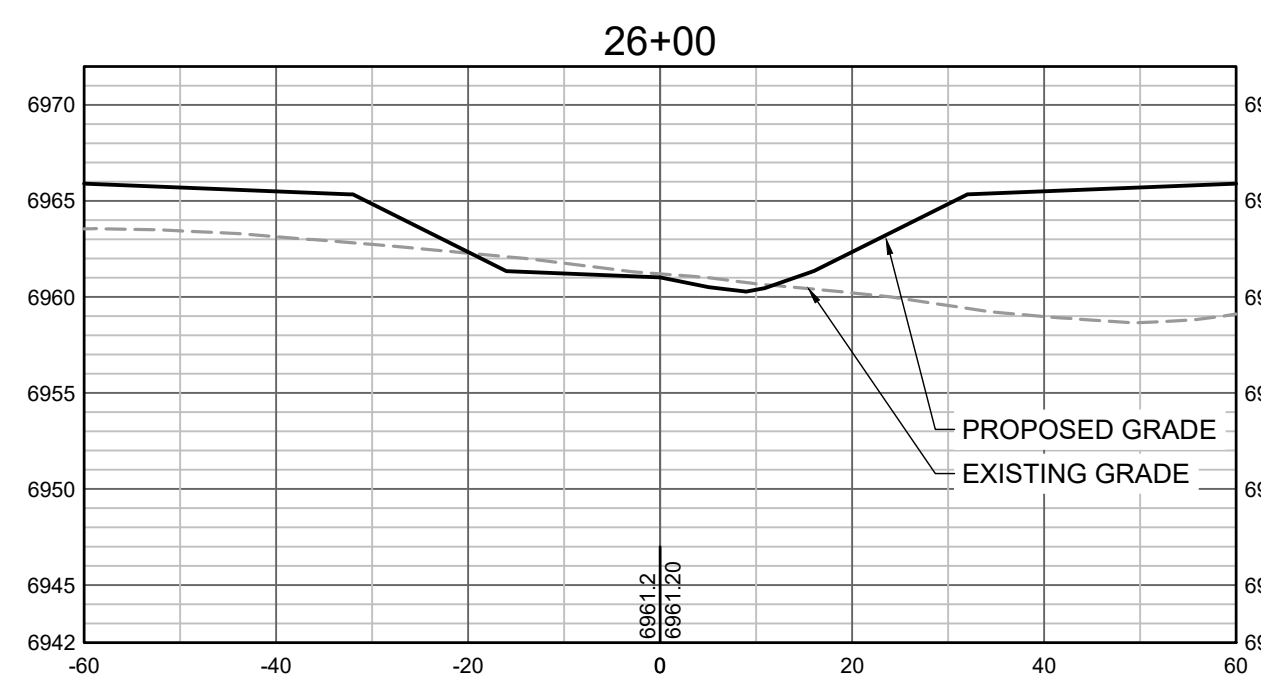
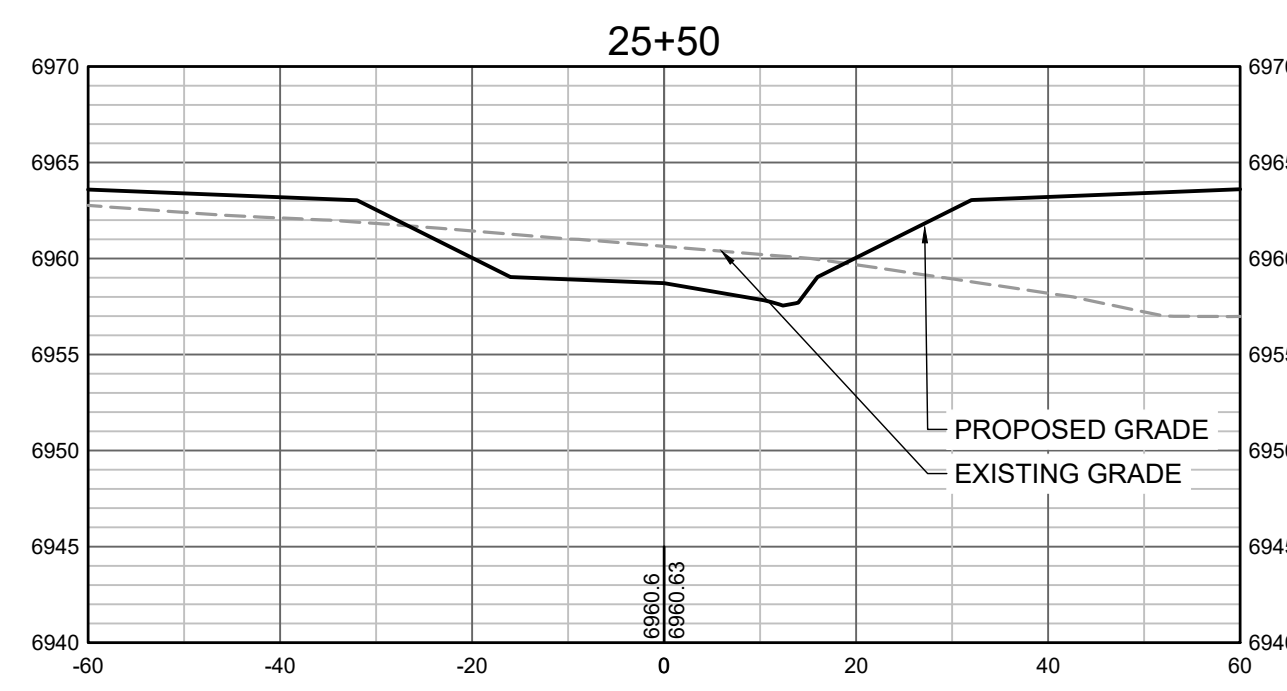
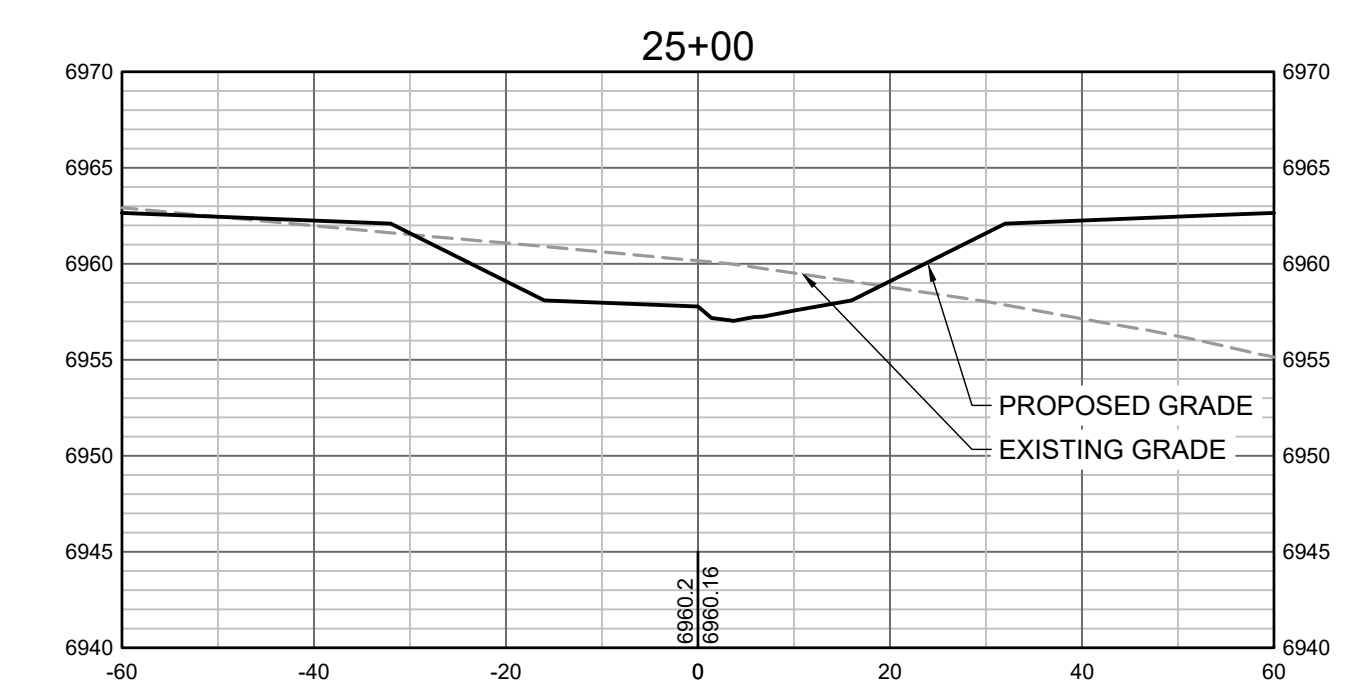
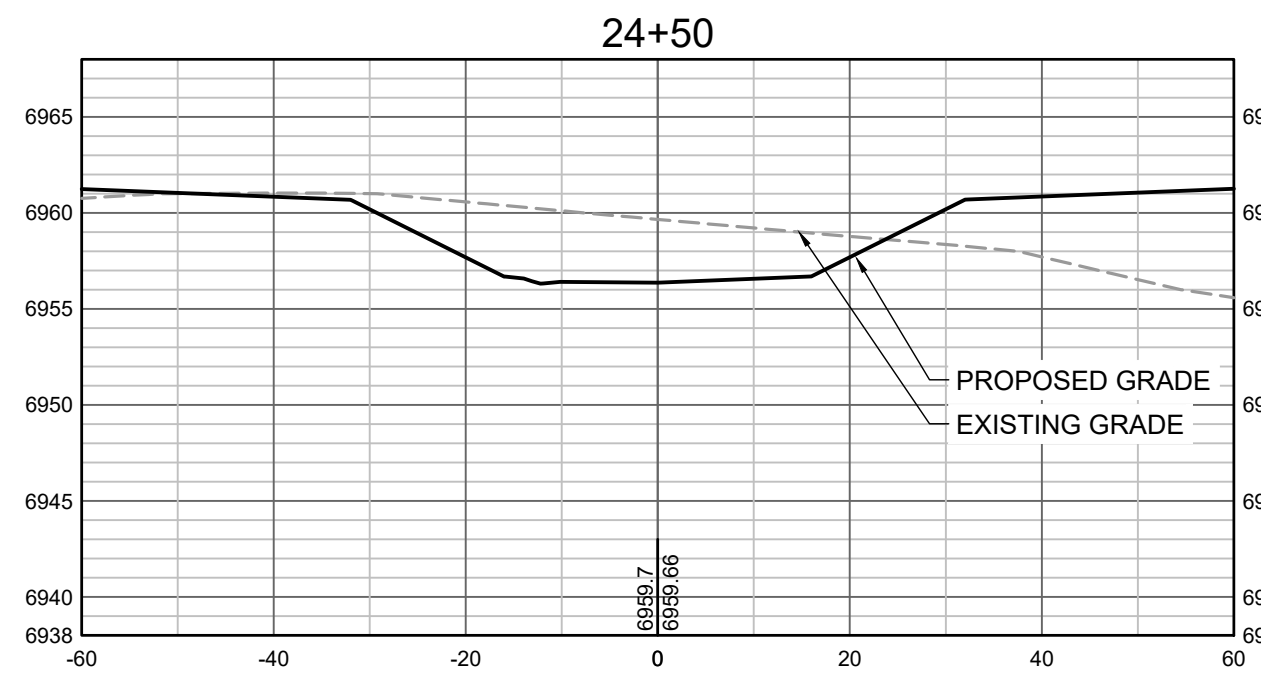
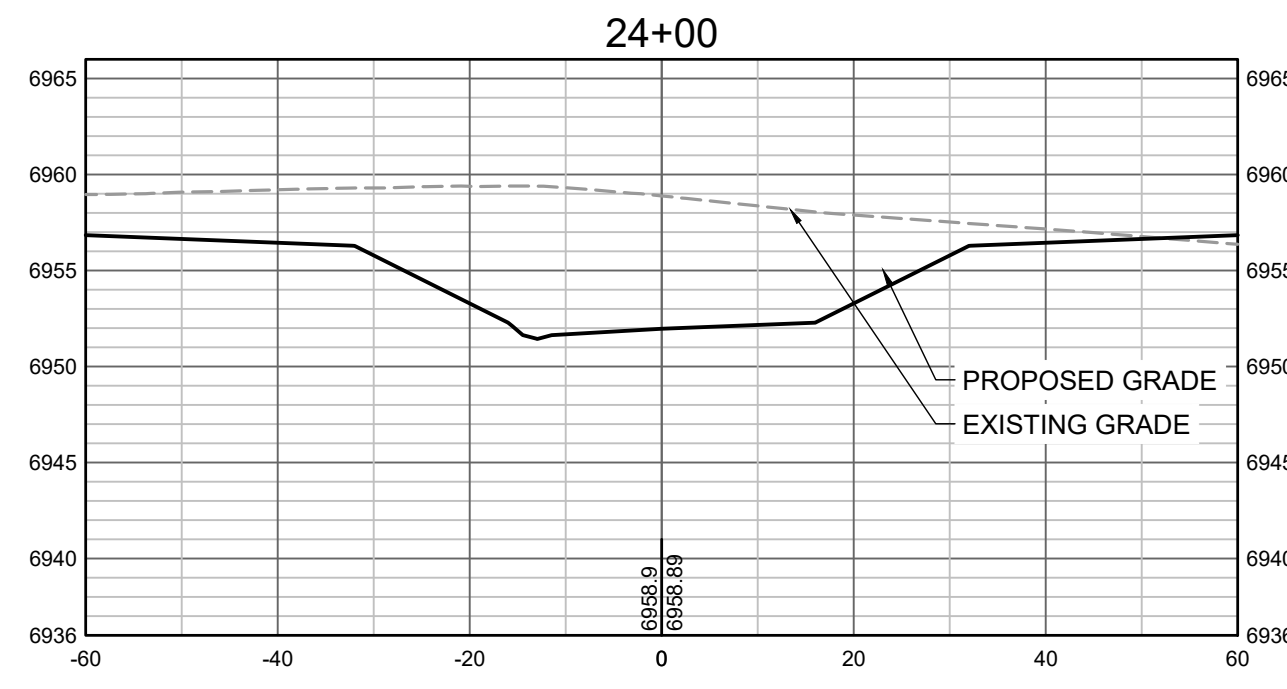
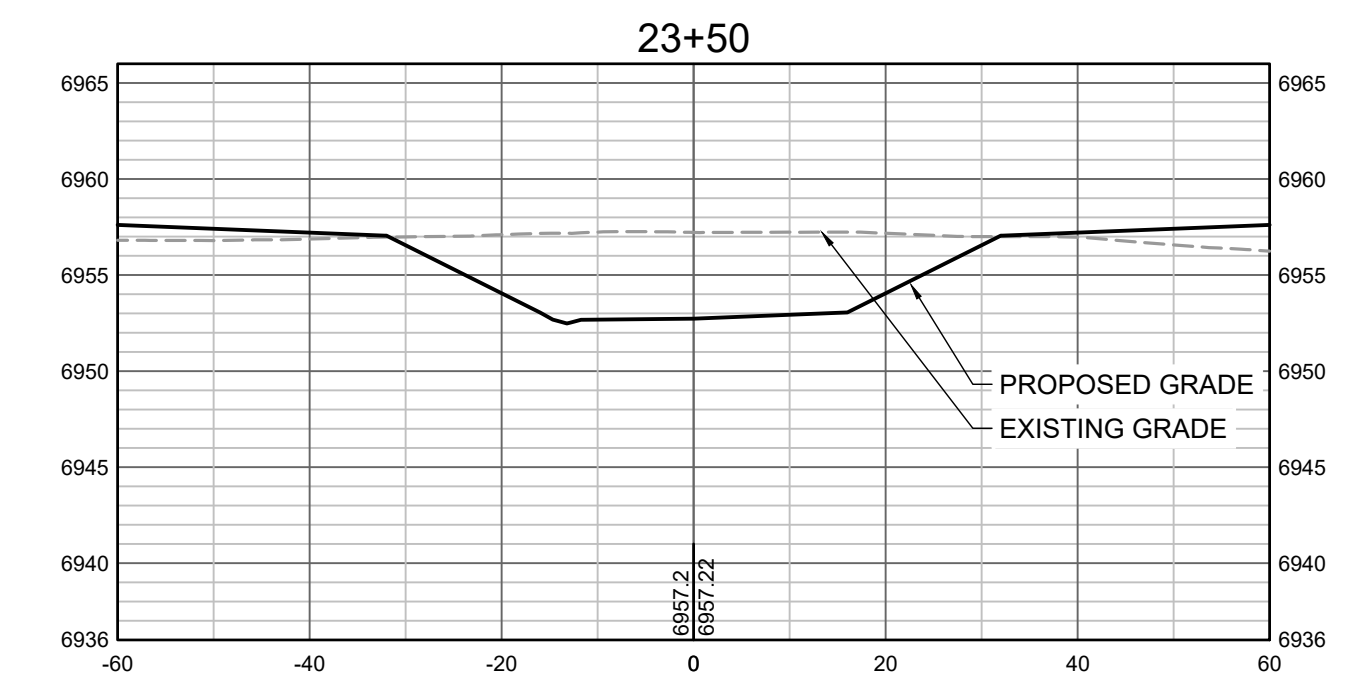
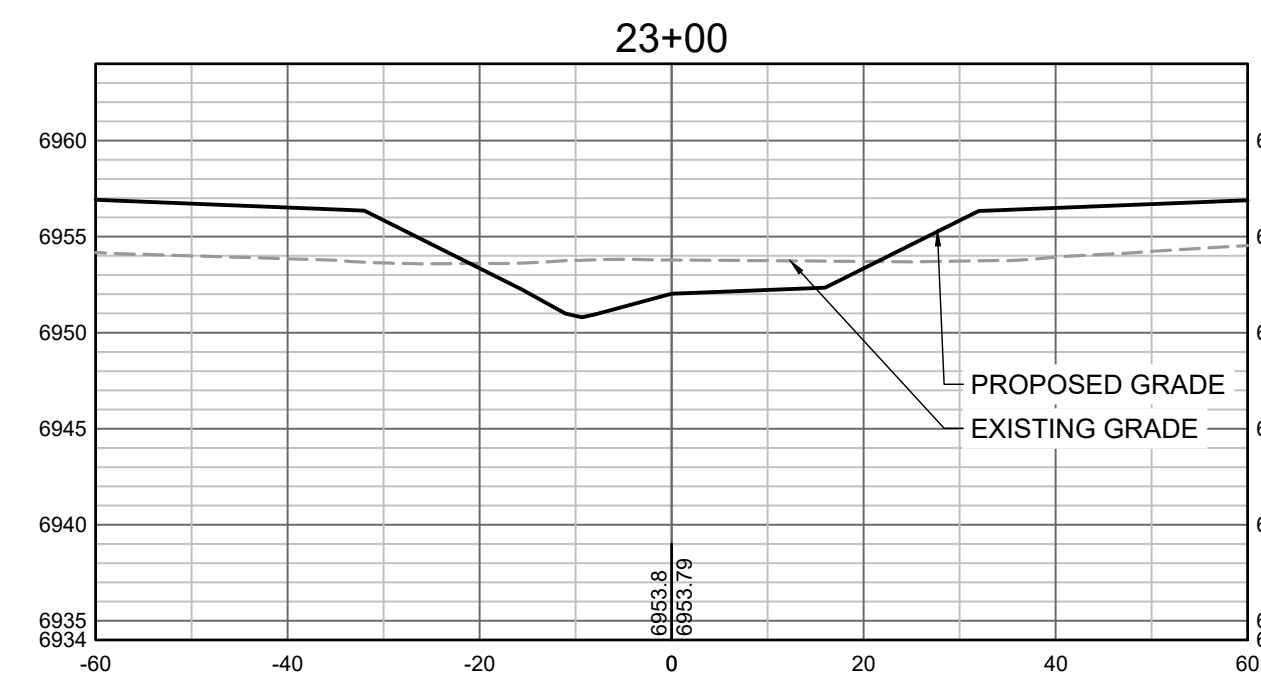
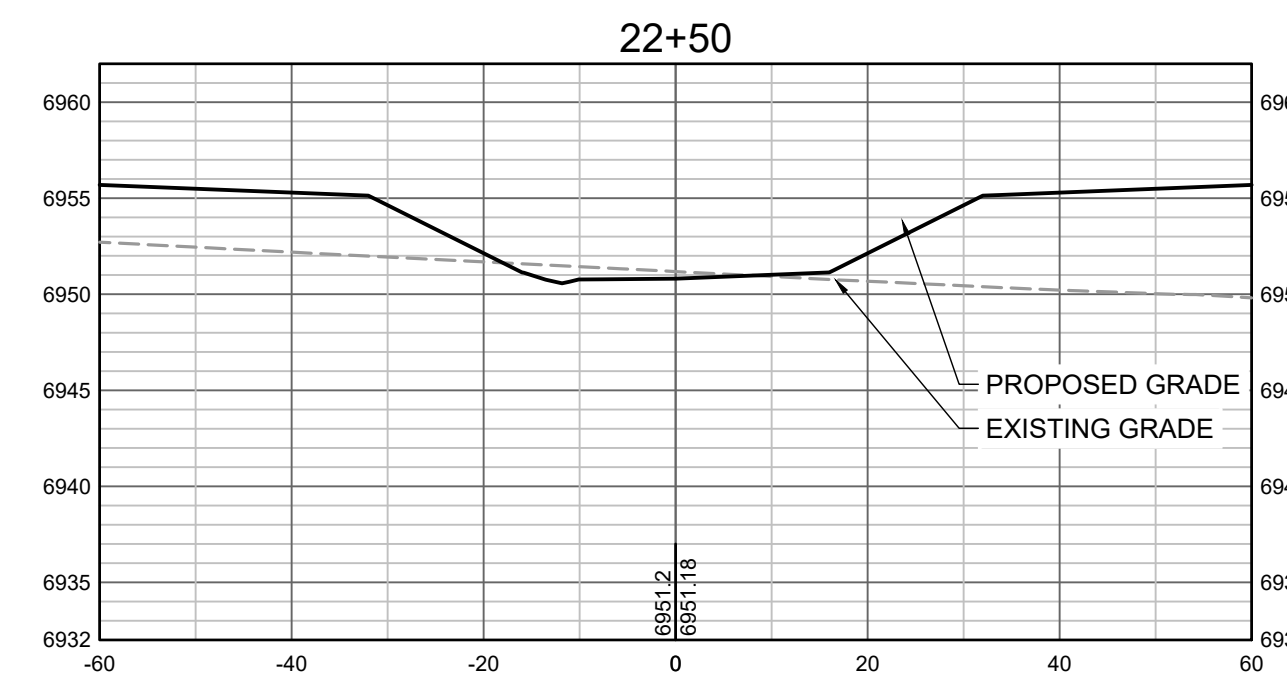
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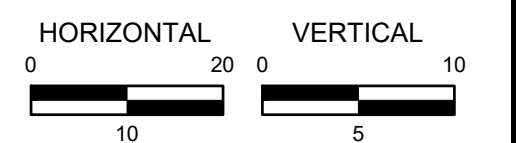
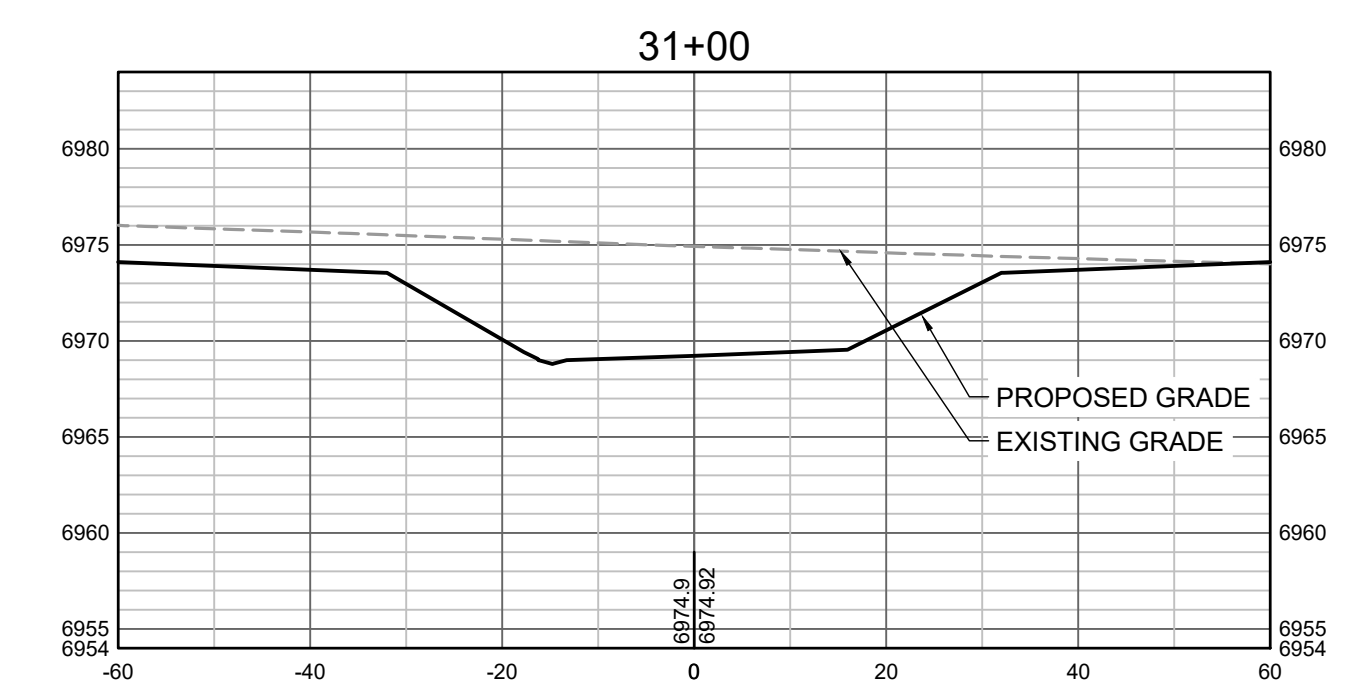
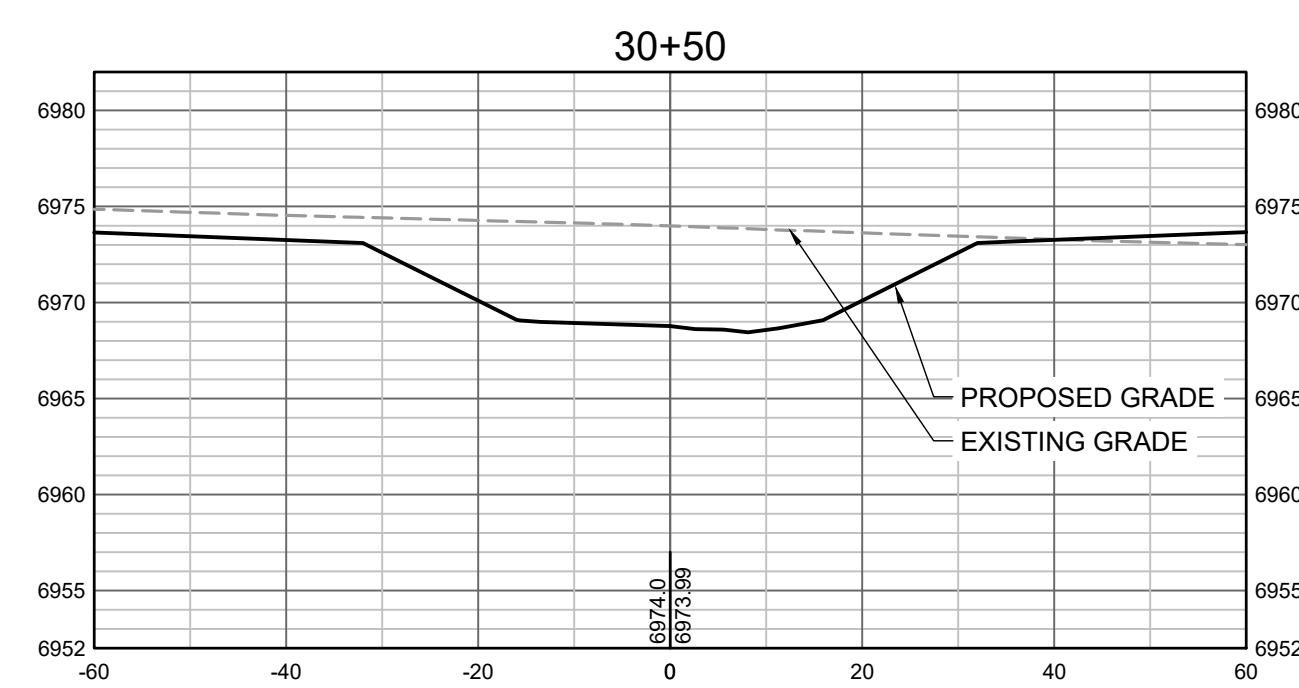
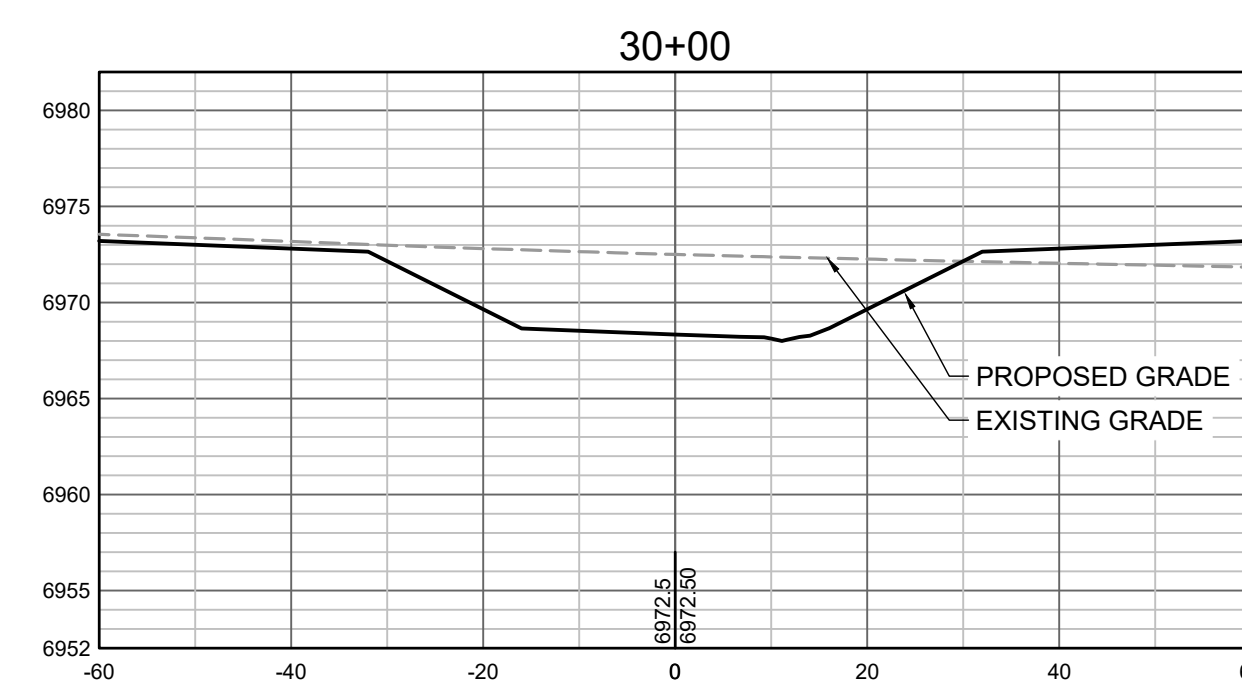
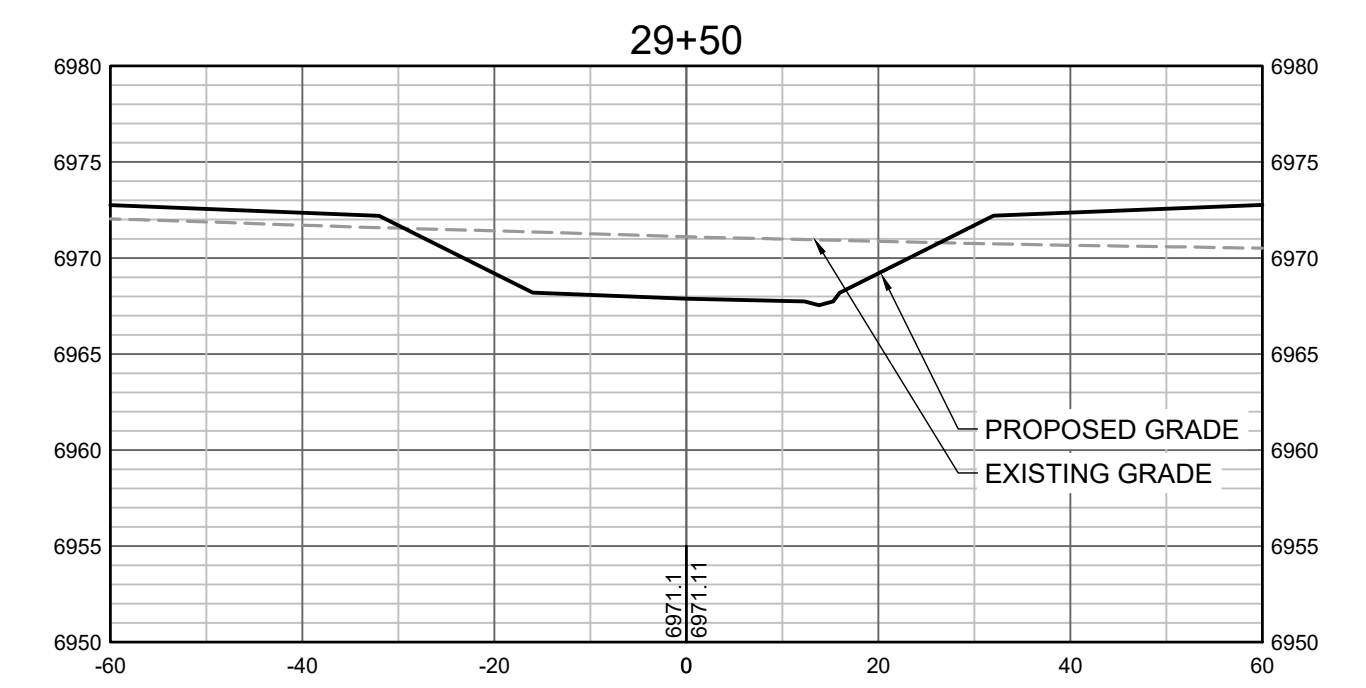
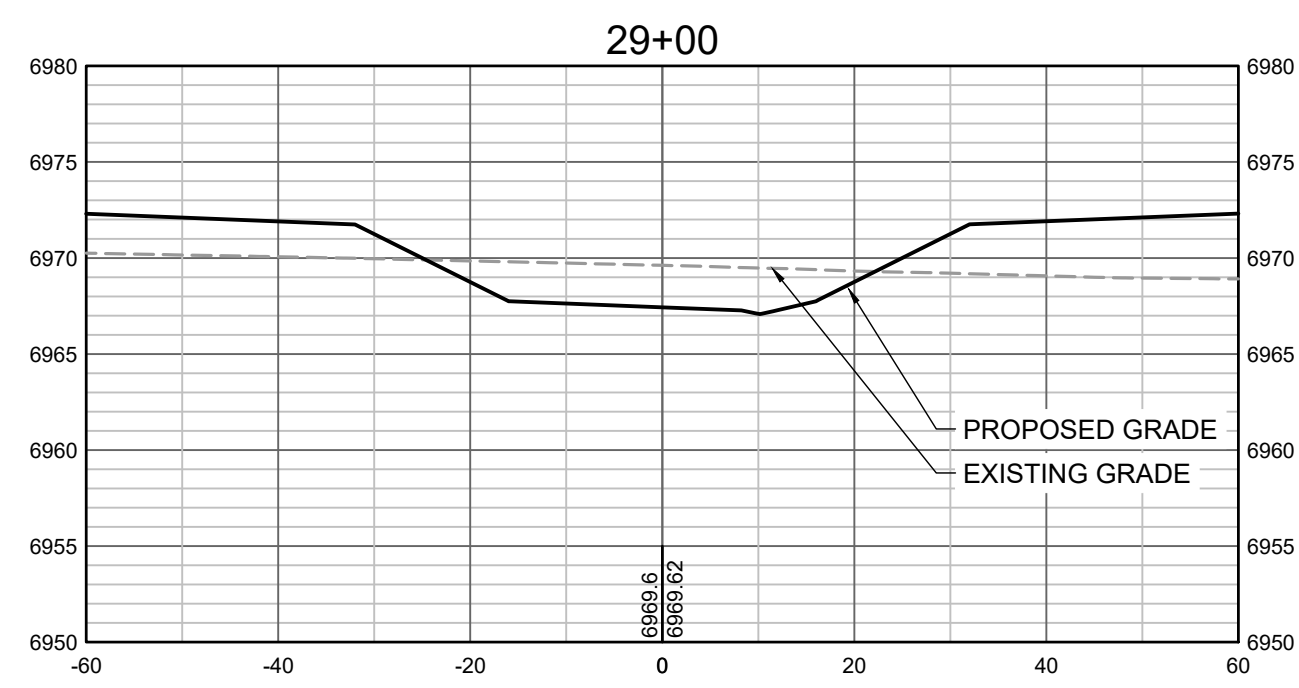
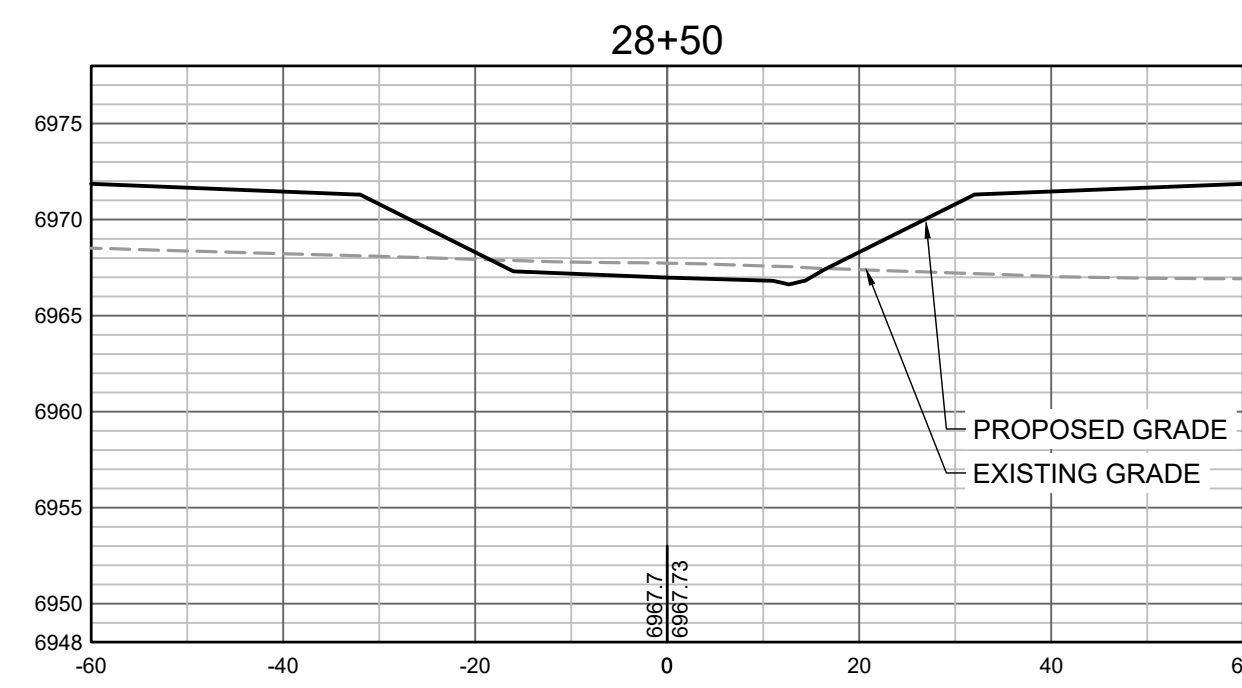
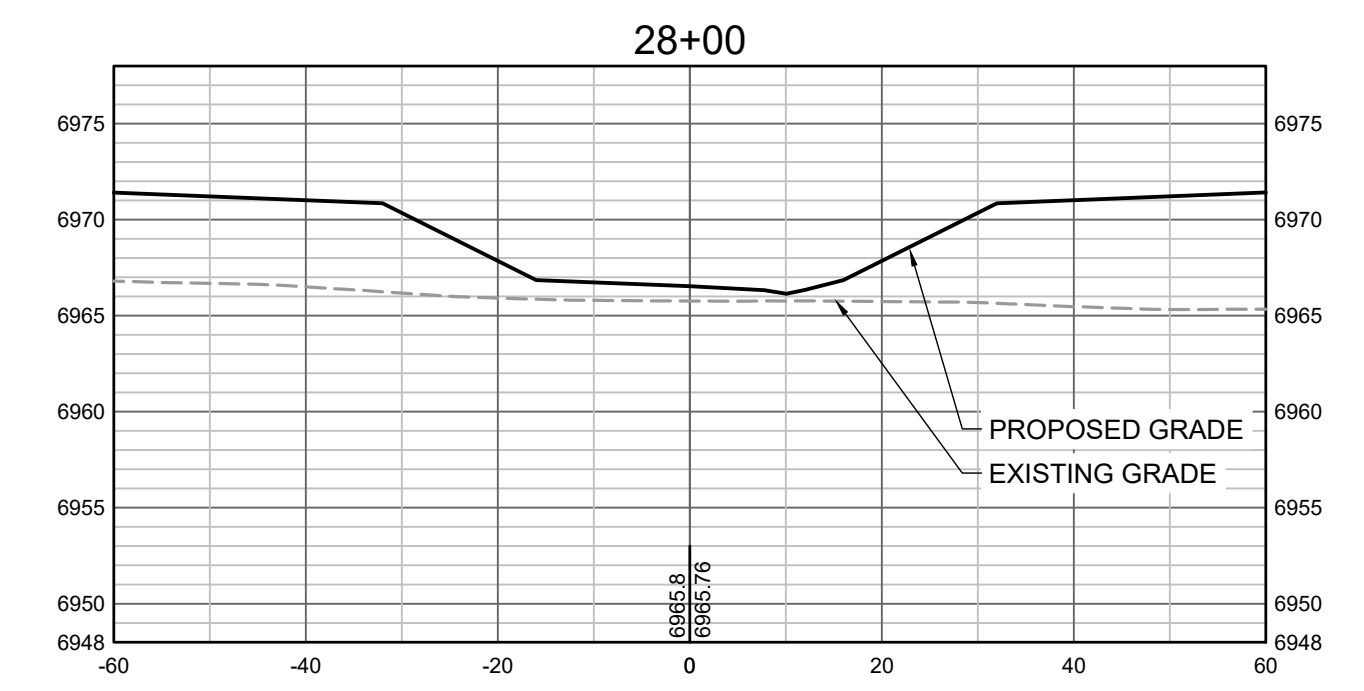
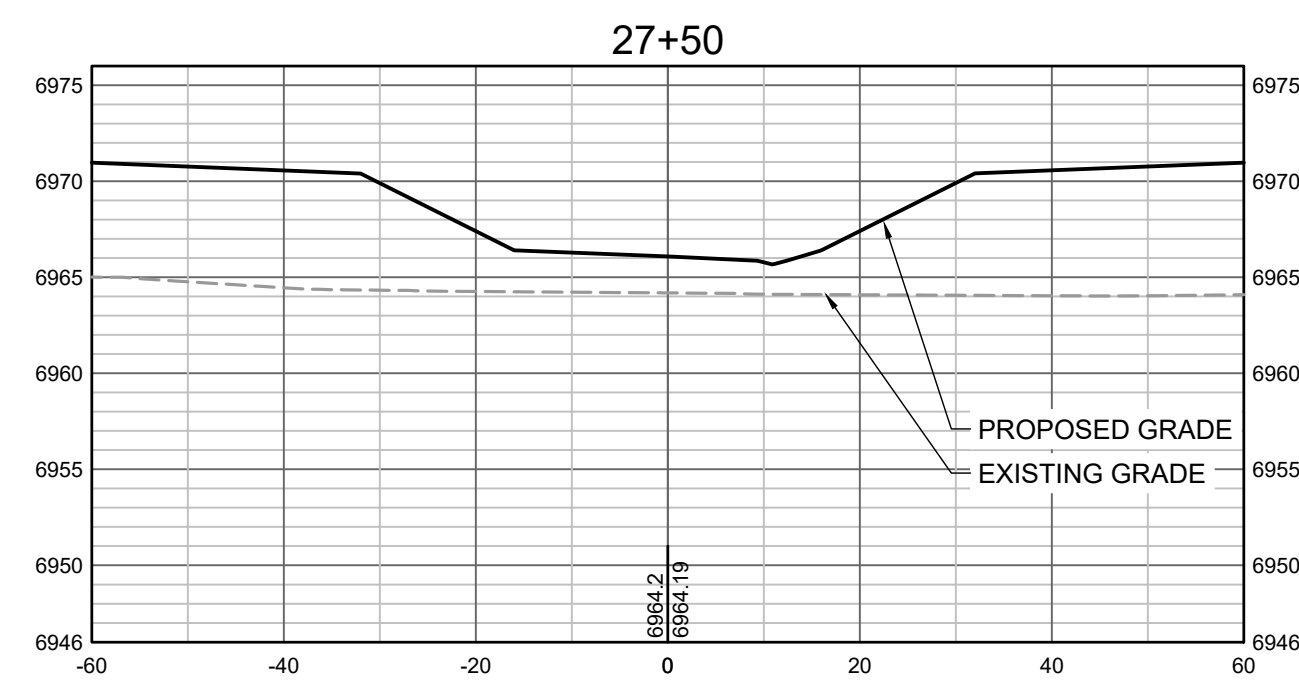
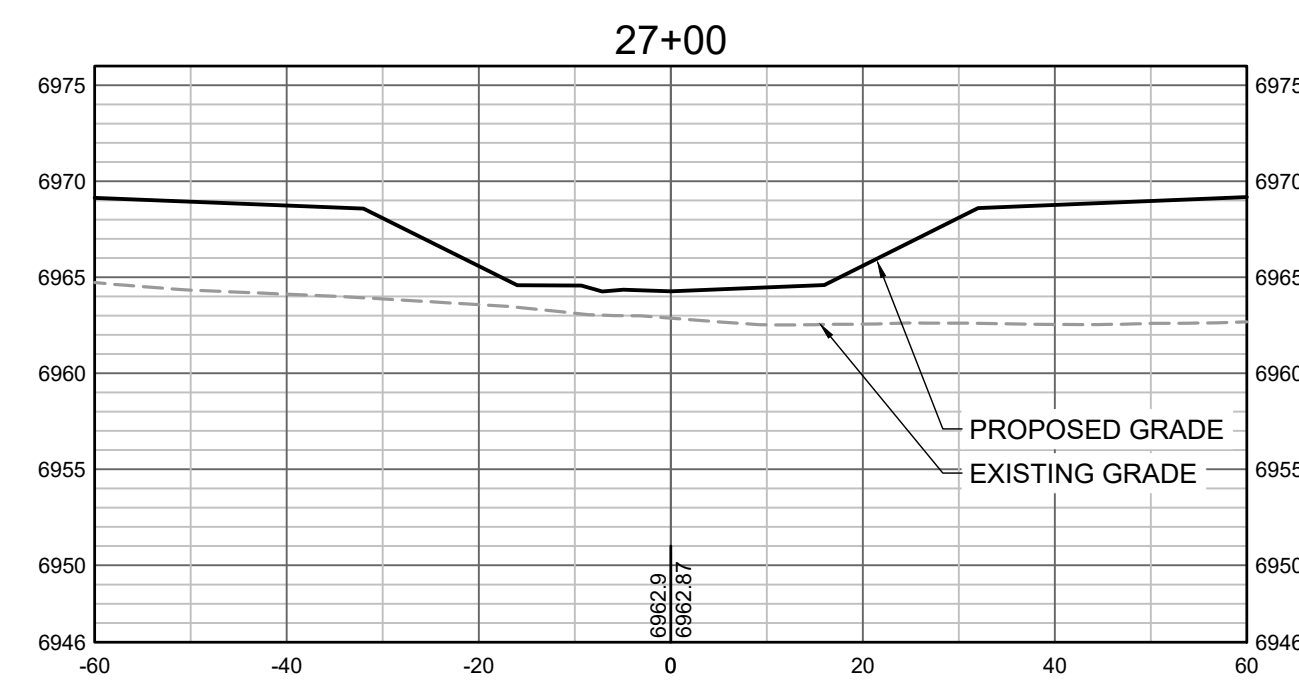


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CS6 20

HR GREEN Xrefs: xgs-1-dh01



HR GREEN Xrefs.xgs; xgs; -d101

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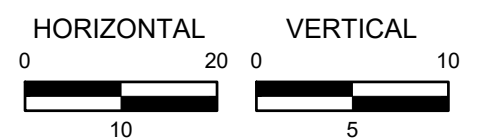
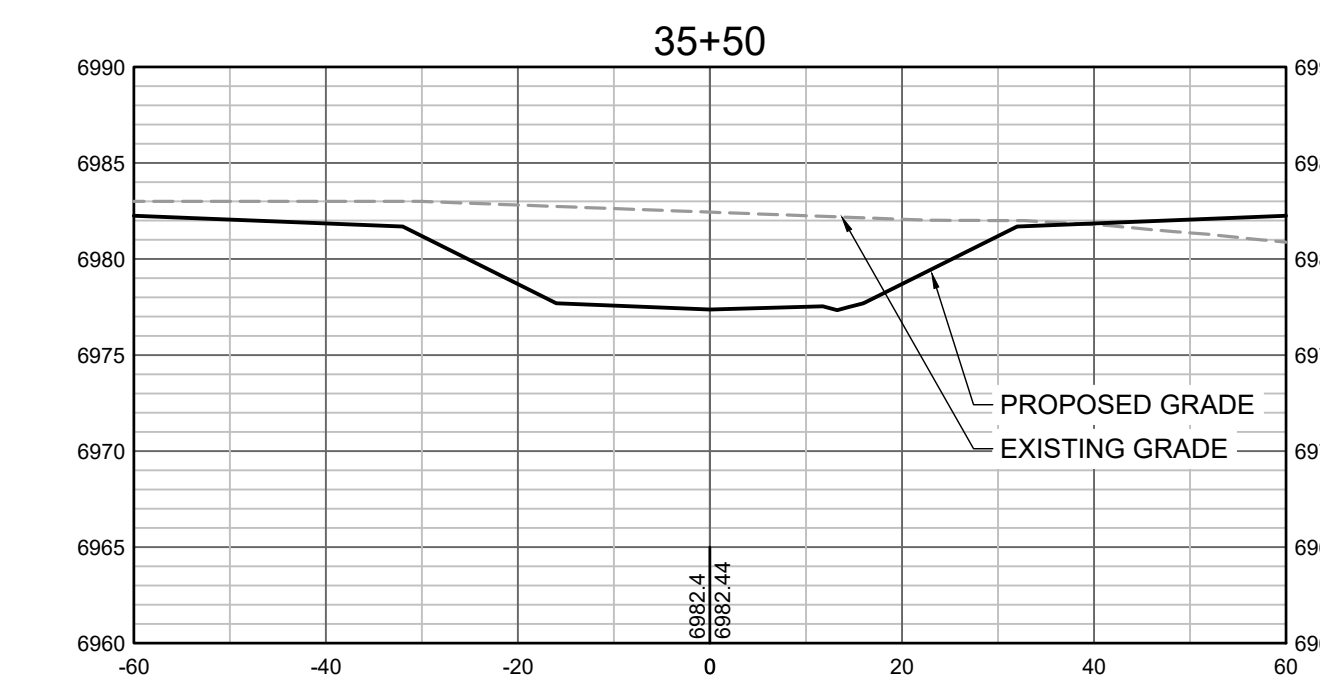
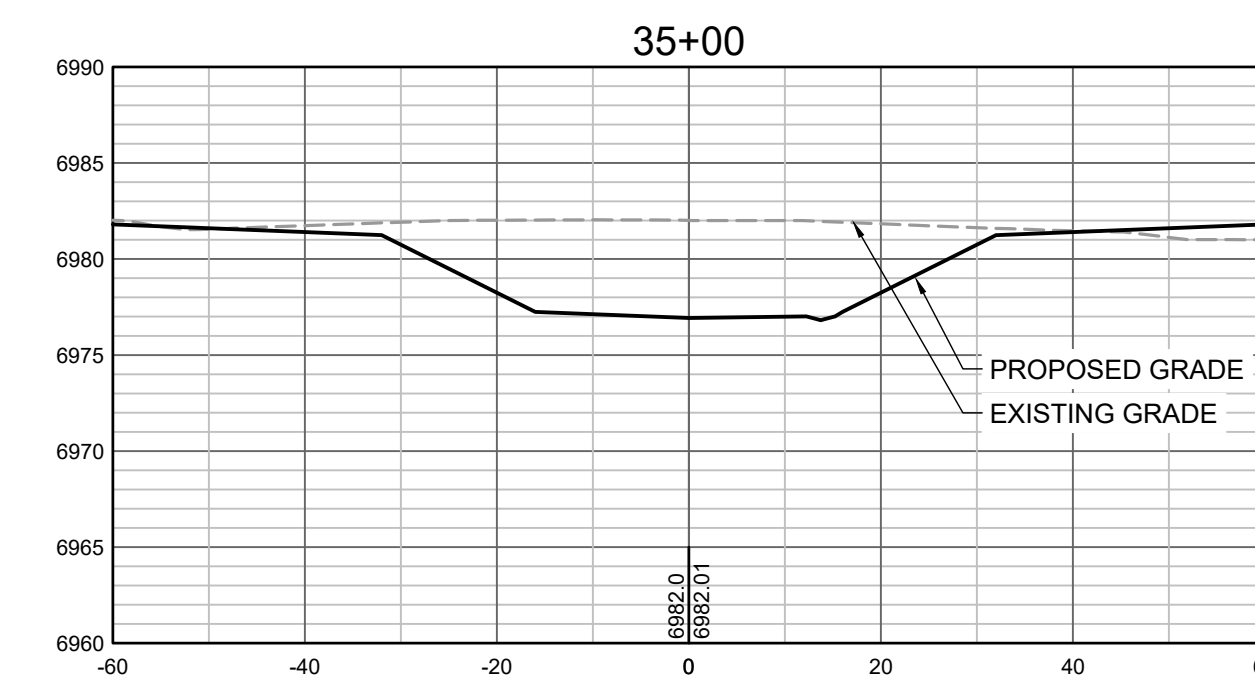
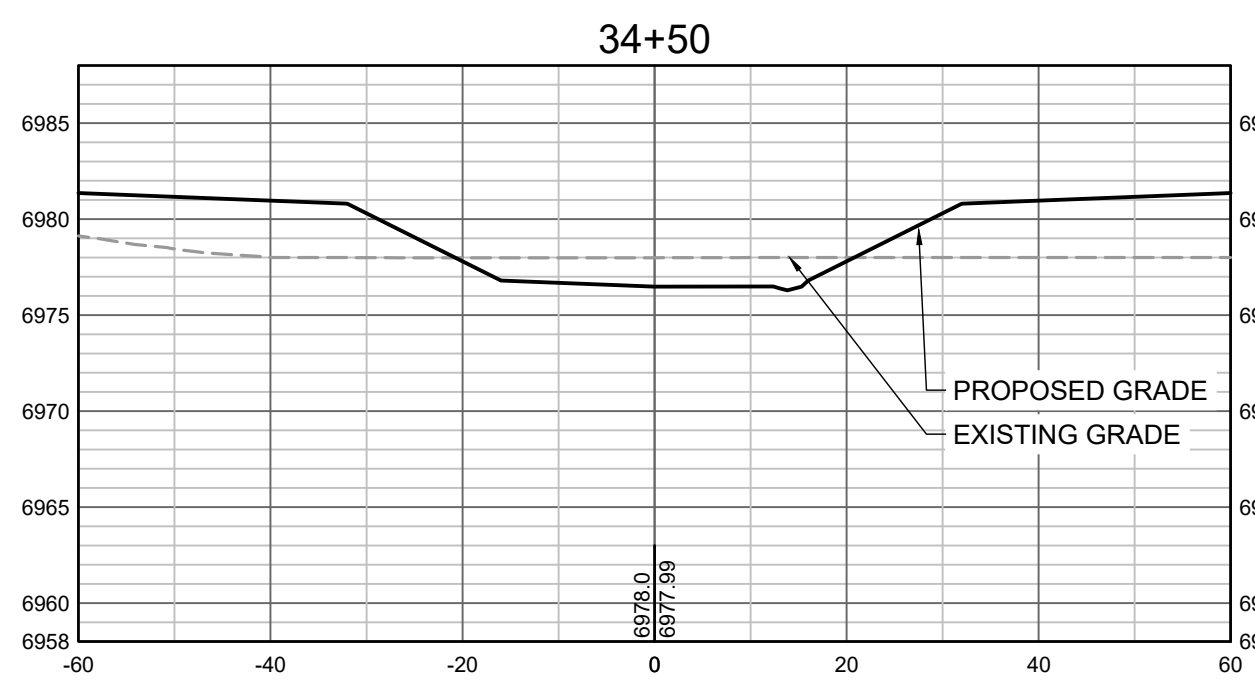
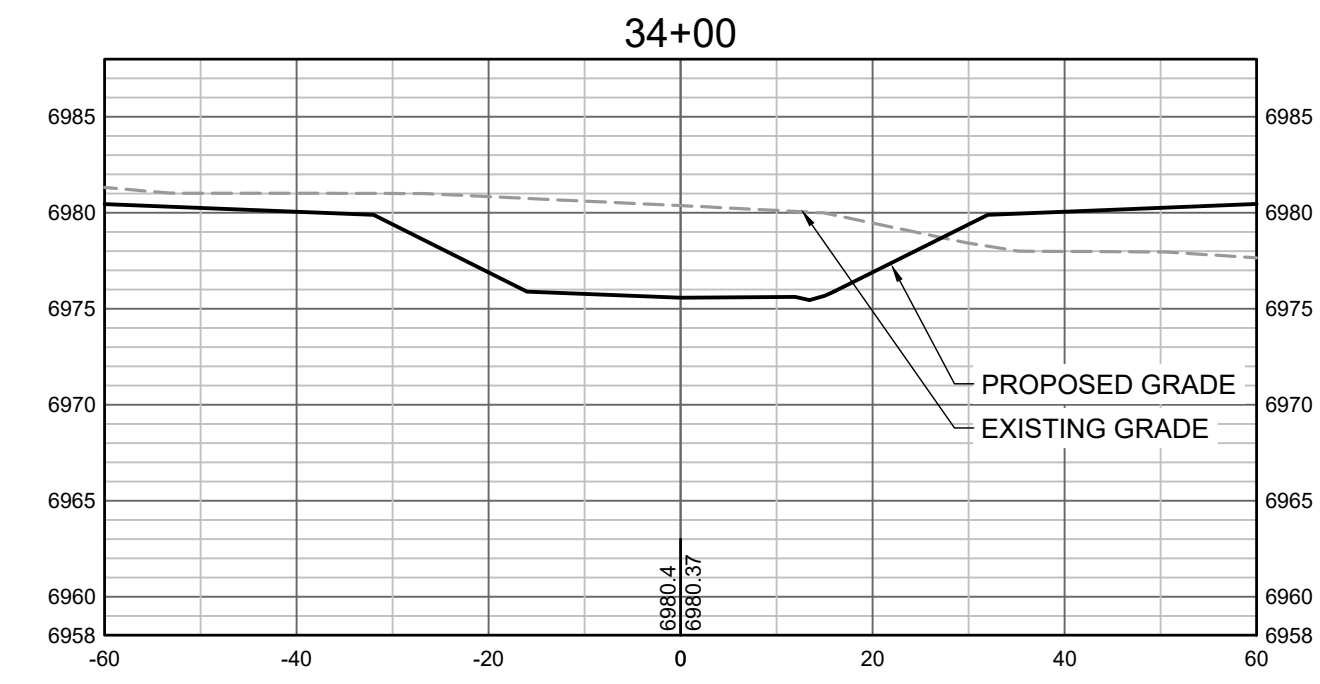
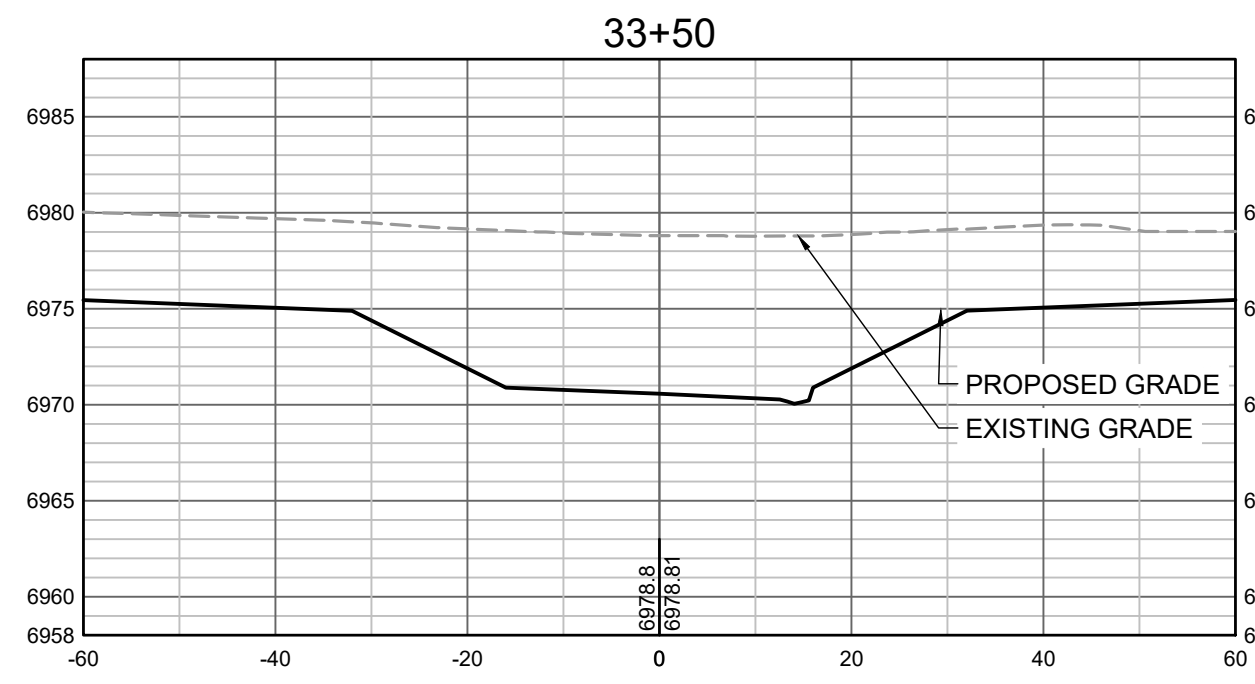
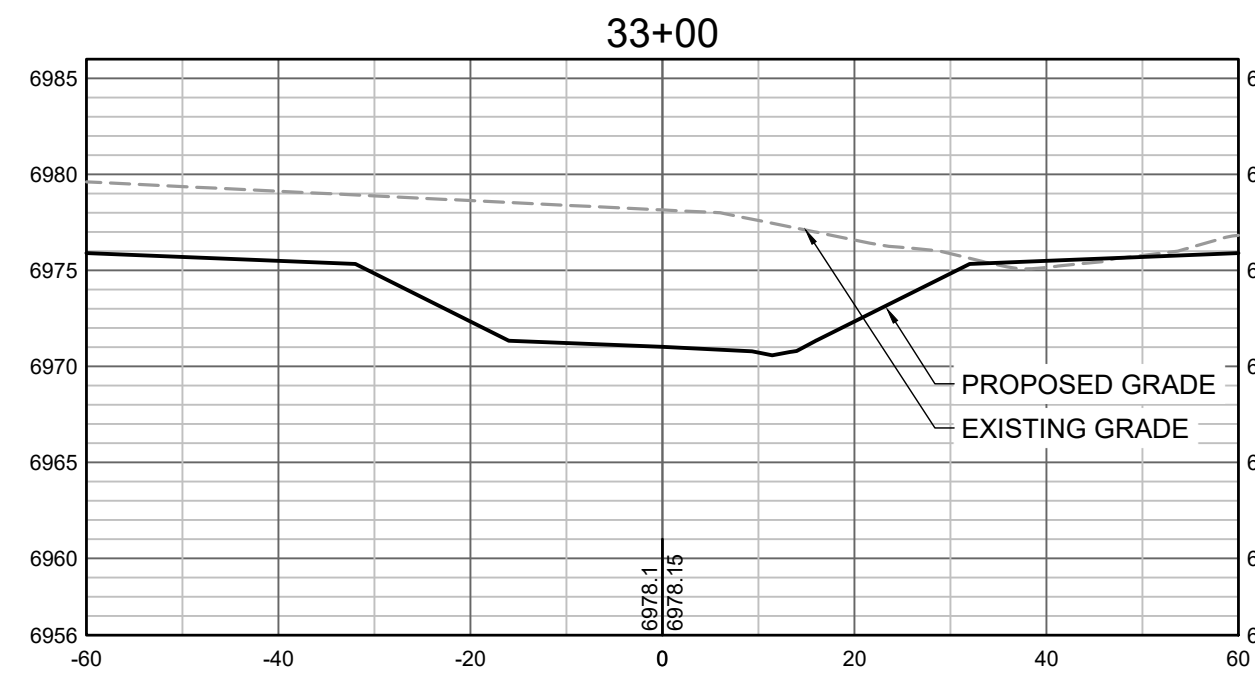
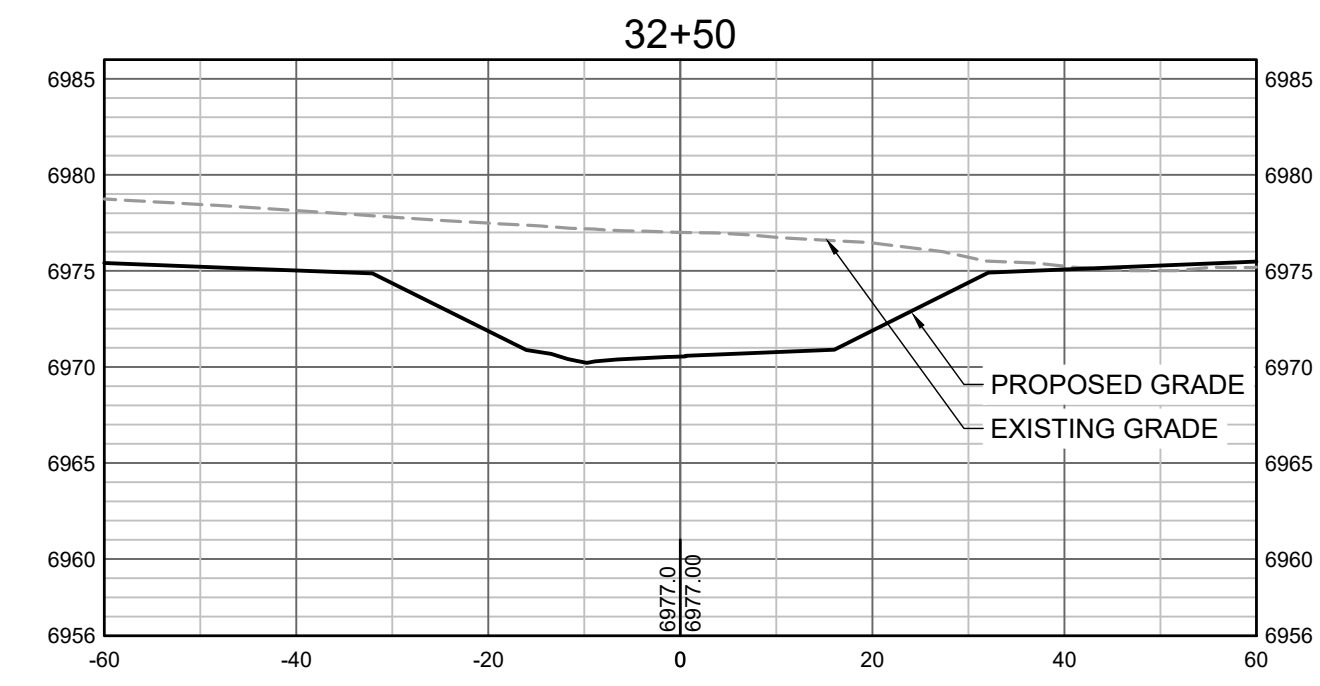
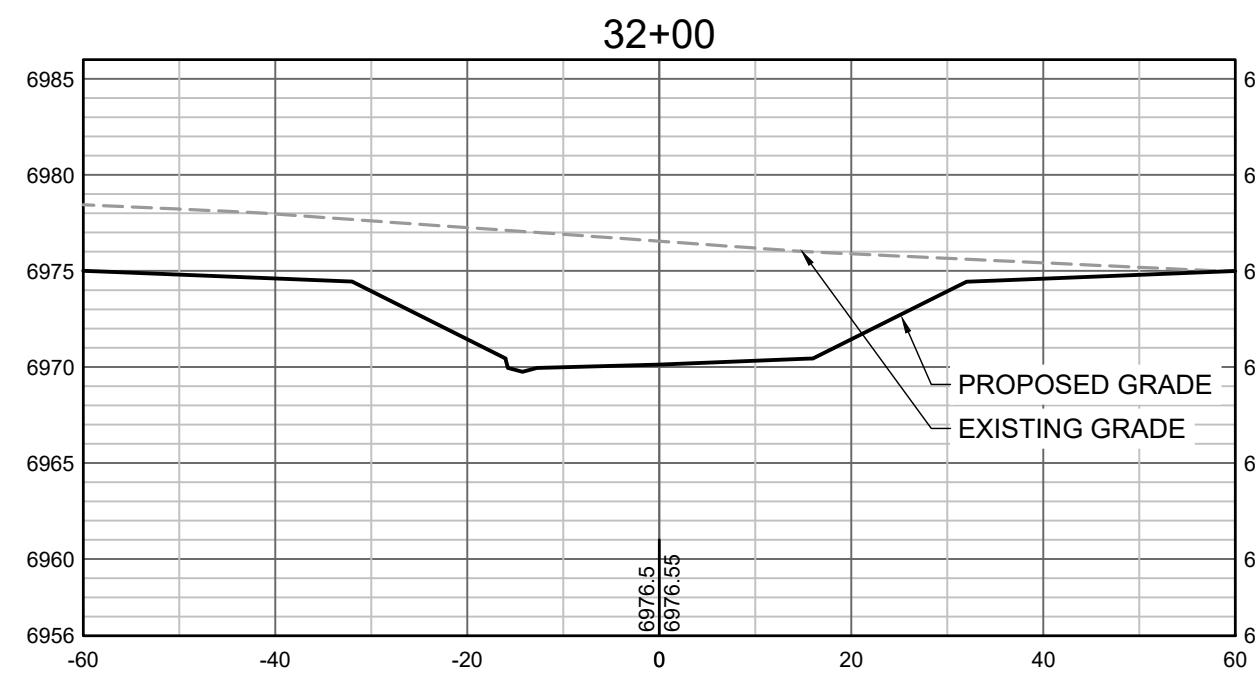
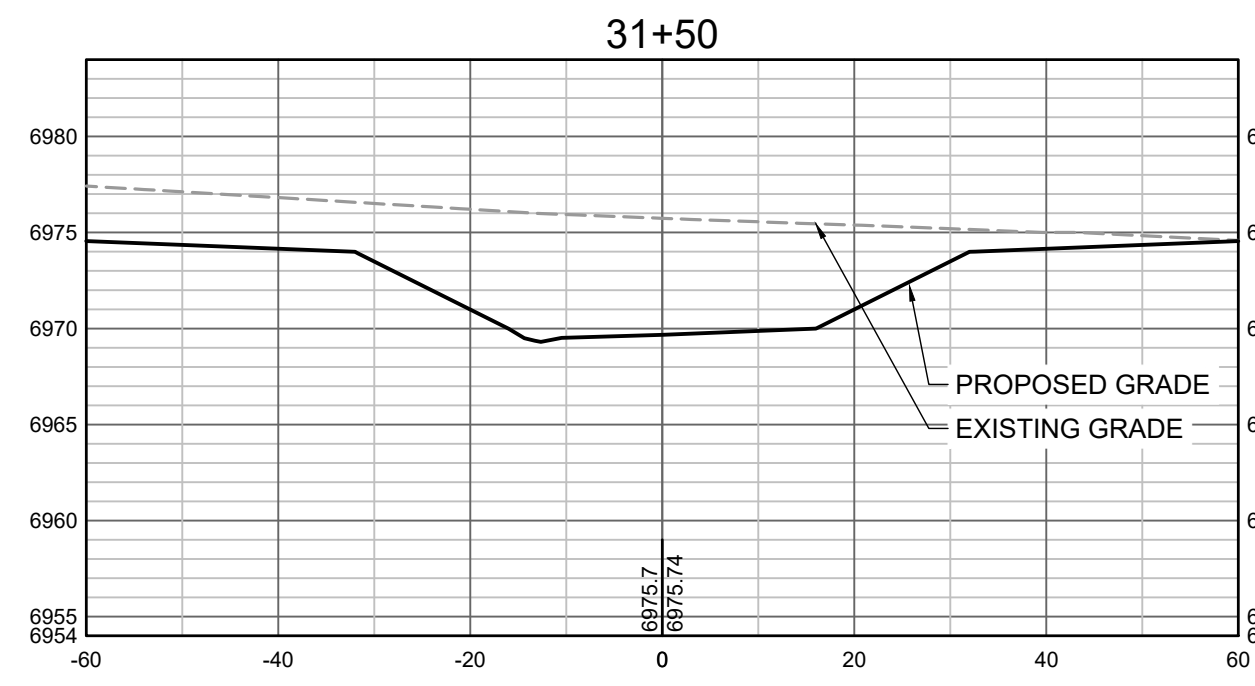
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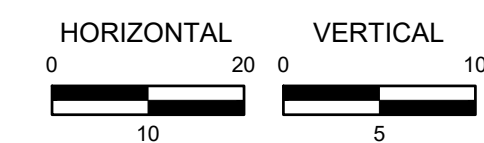
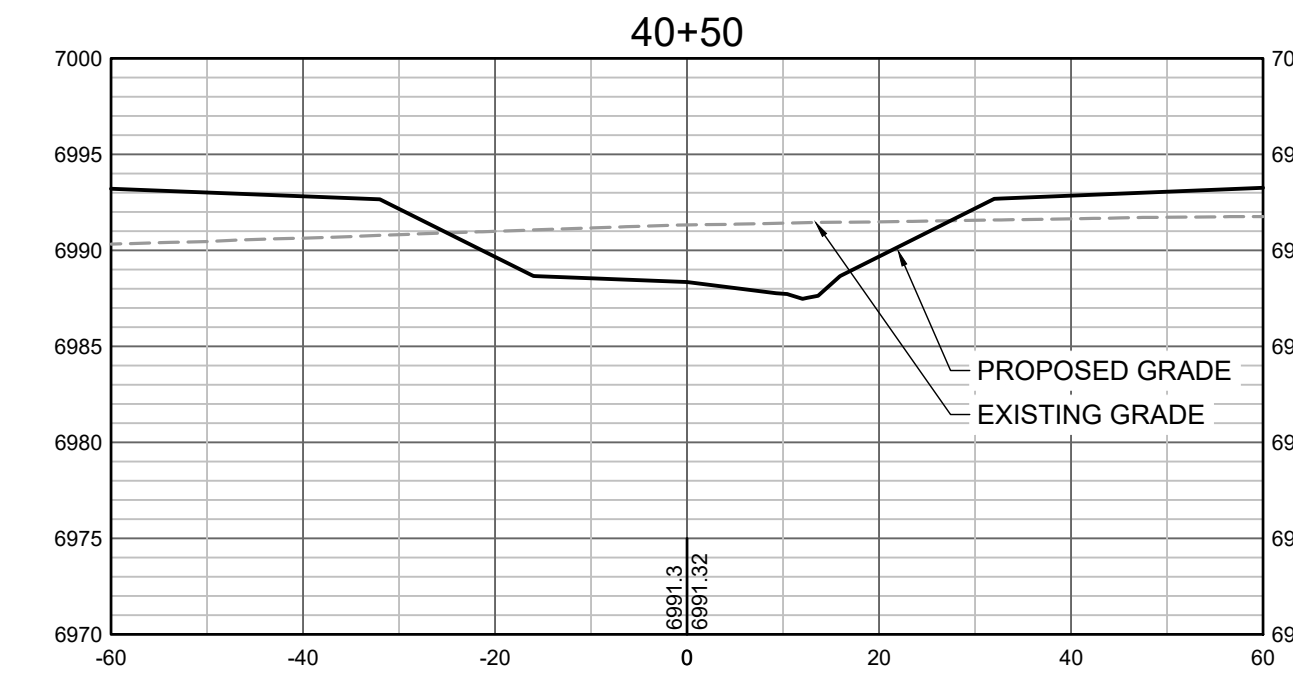
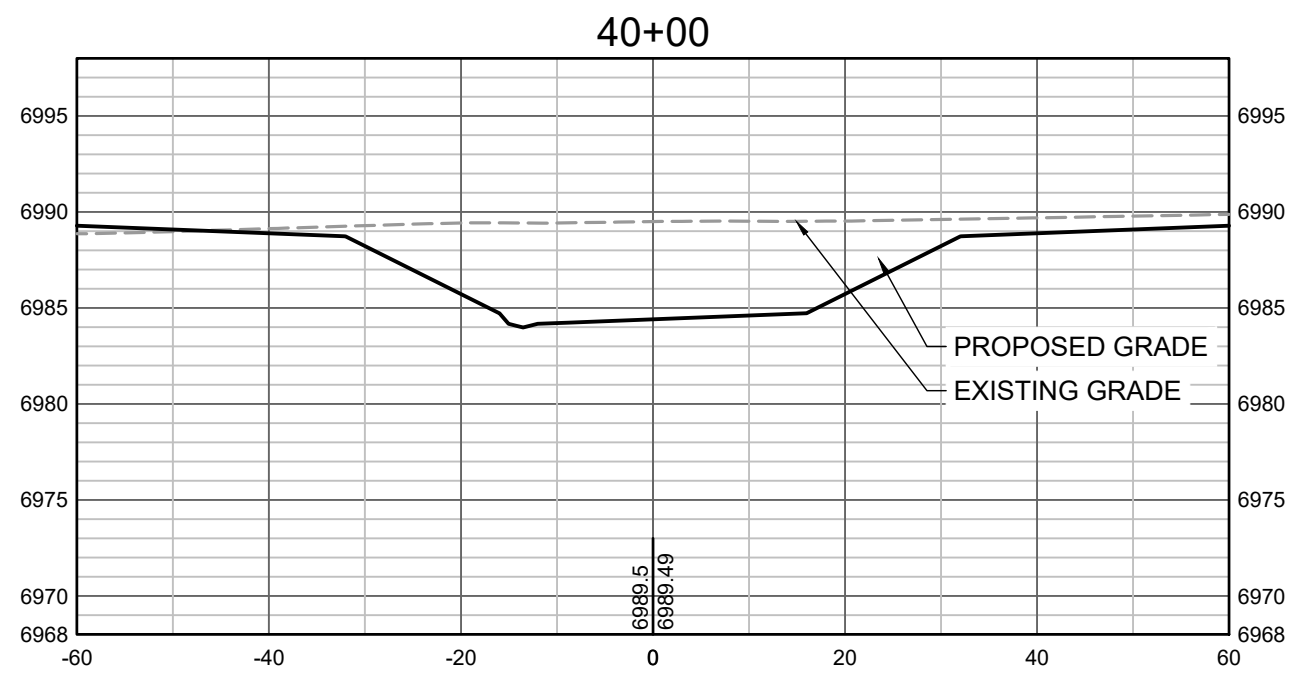
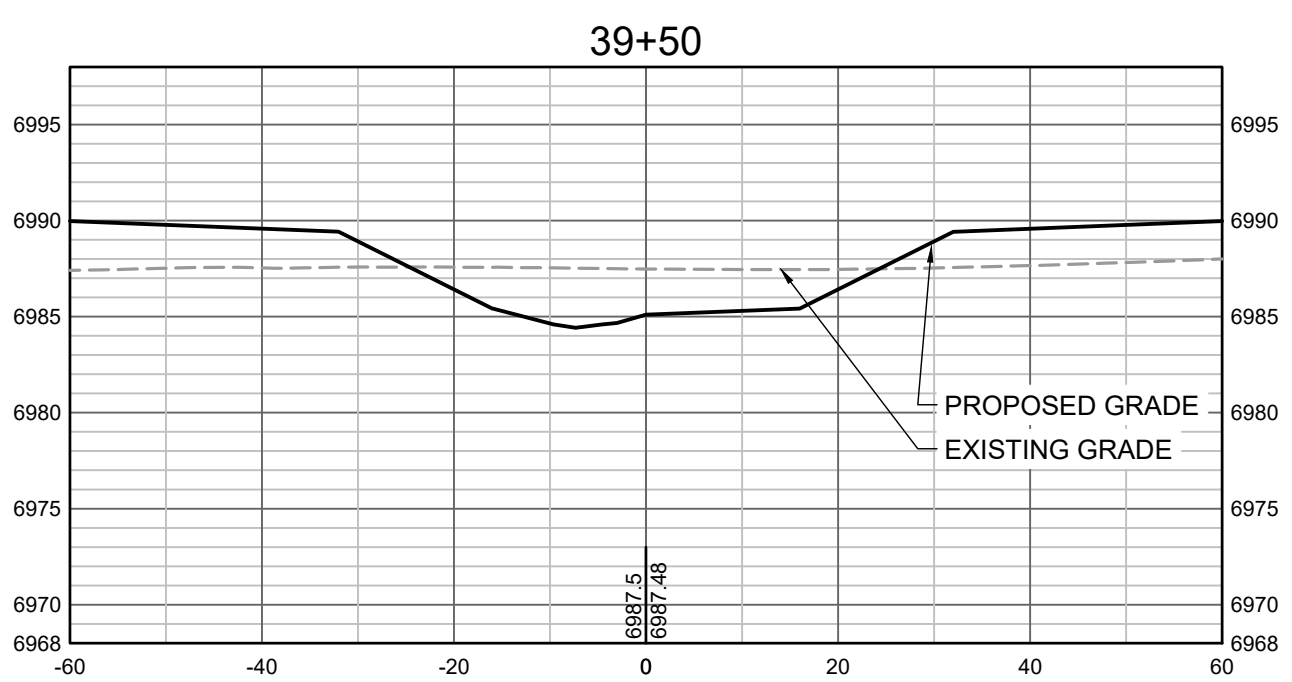
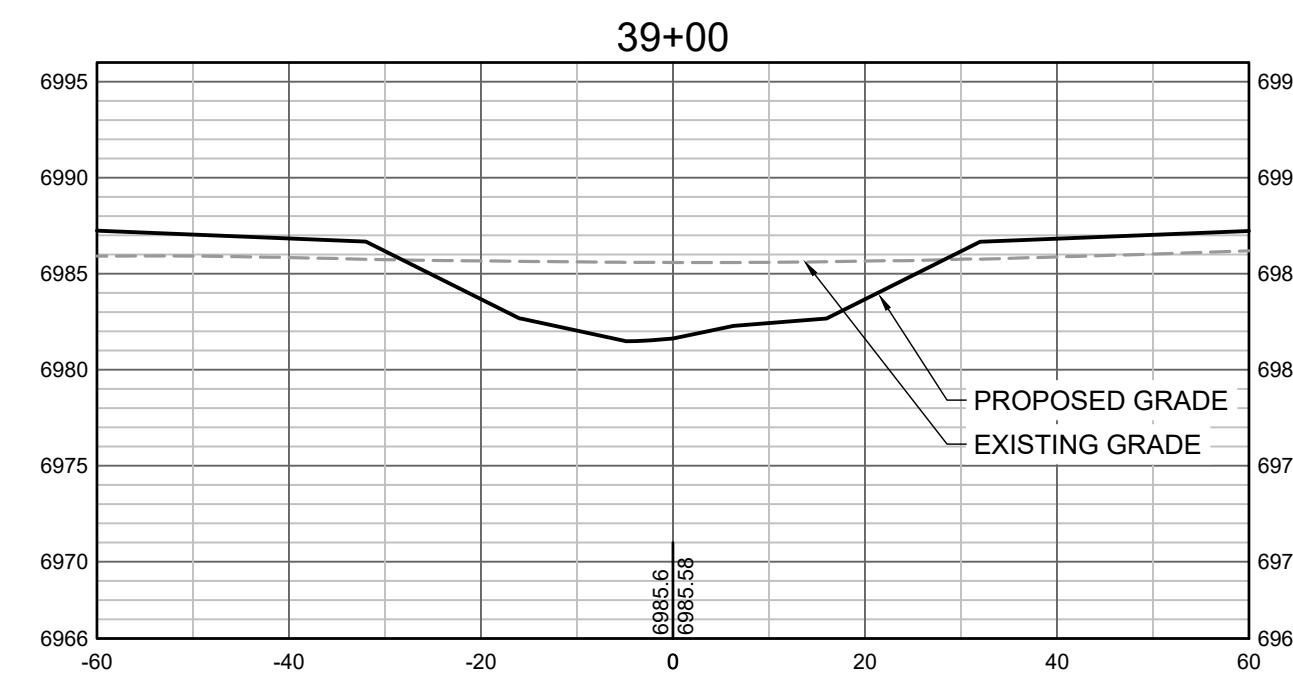
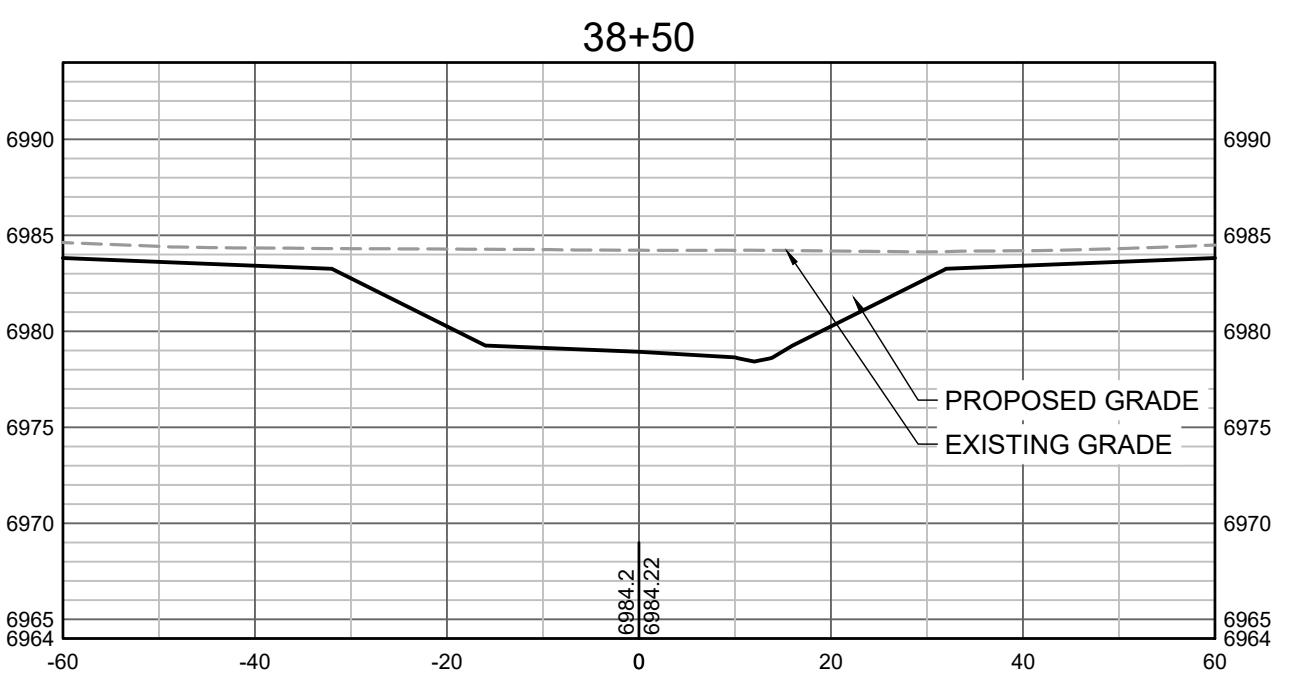
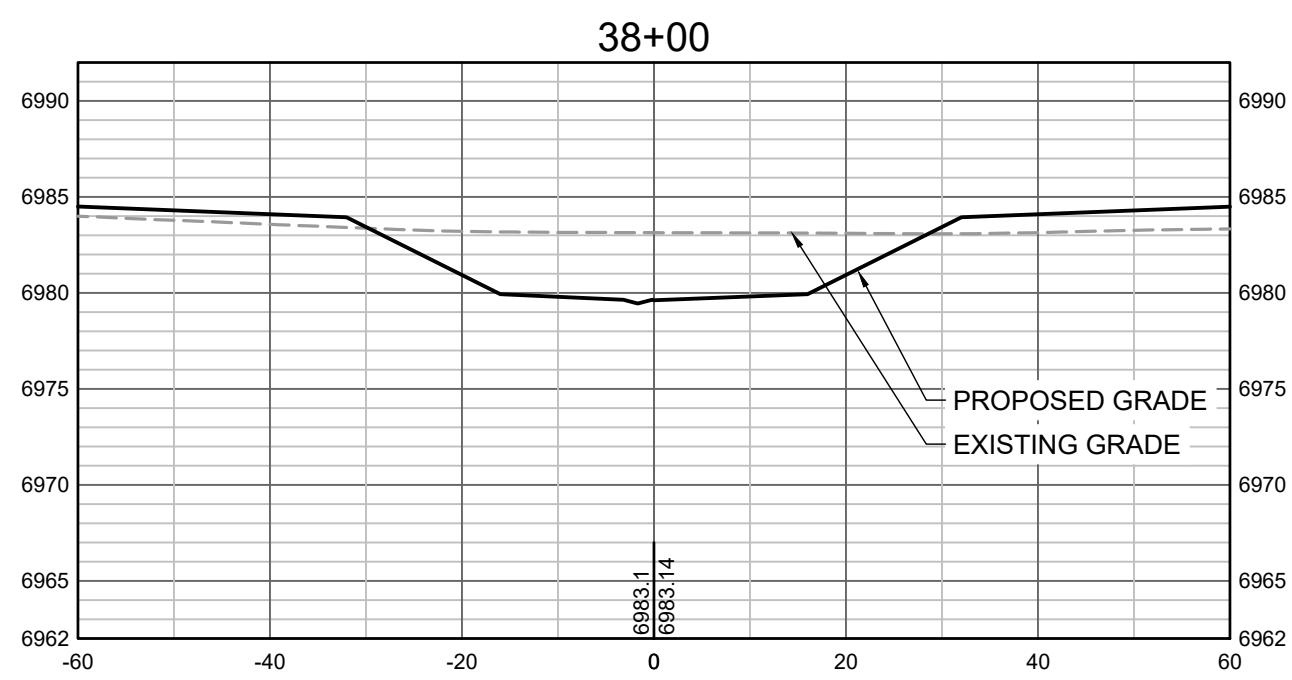
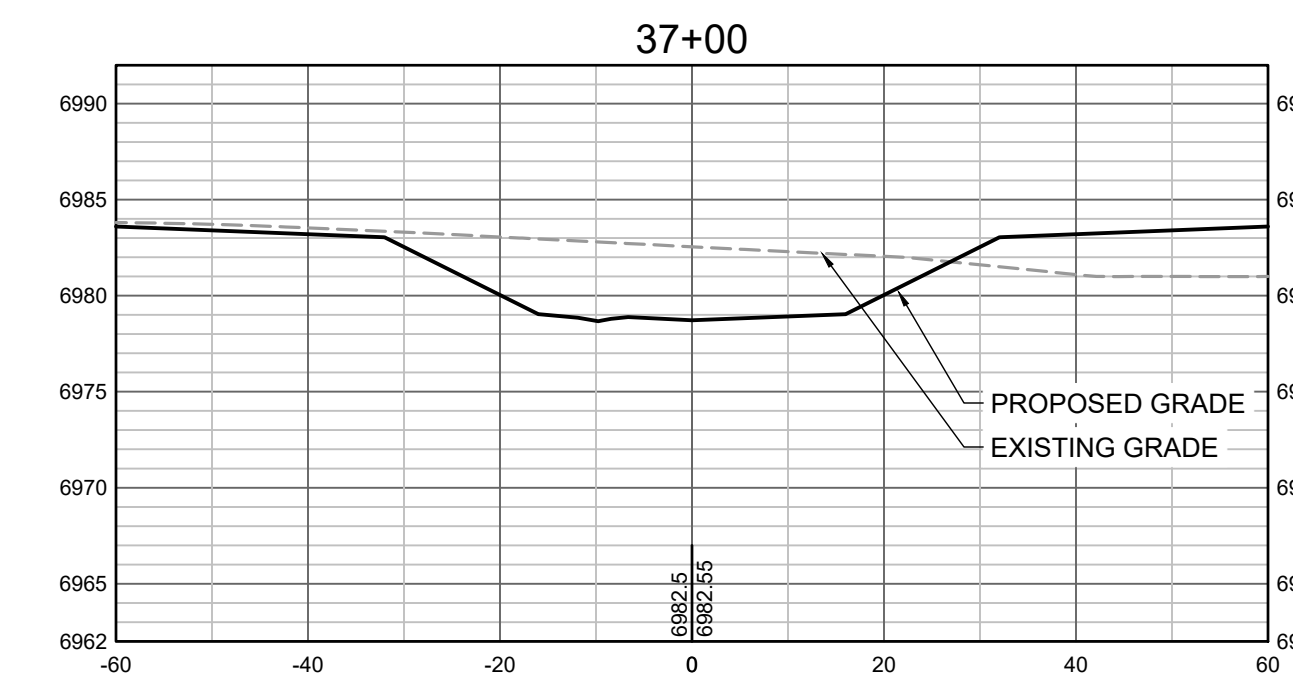
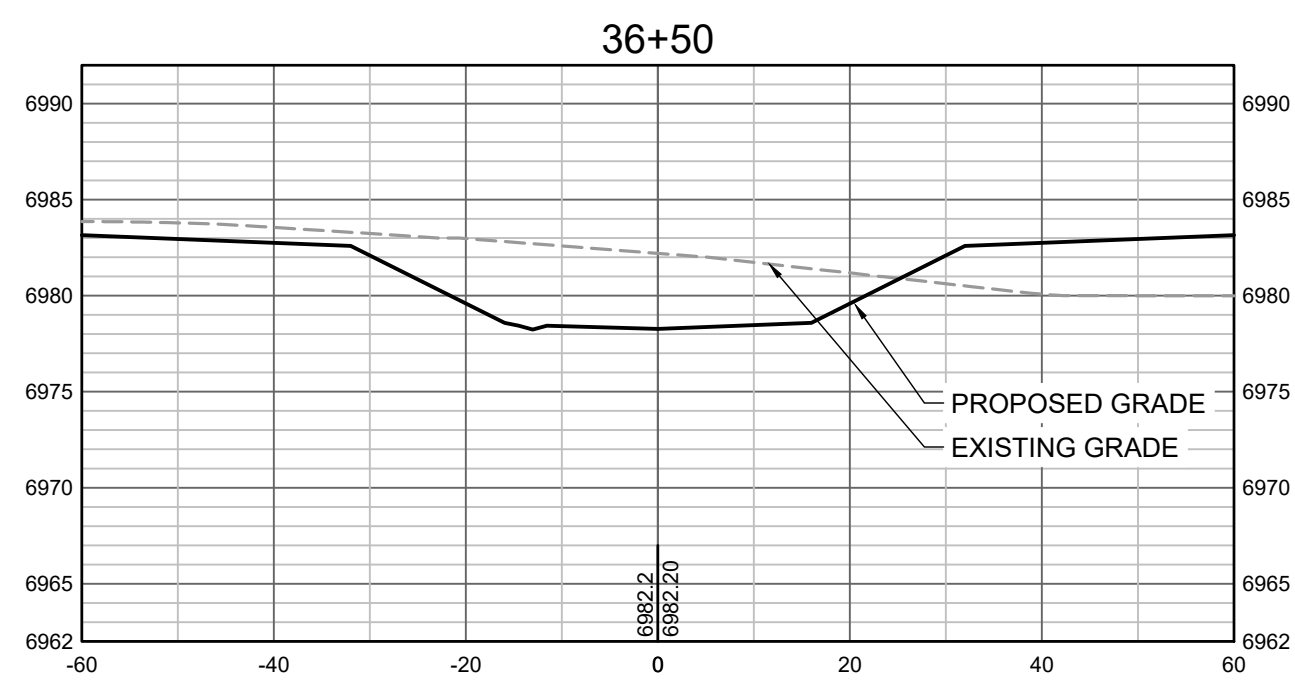
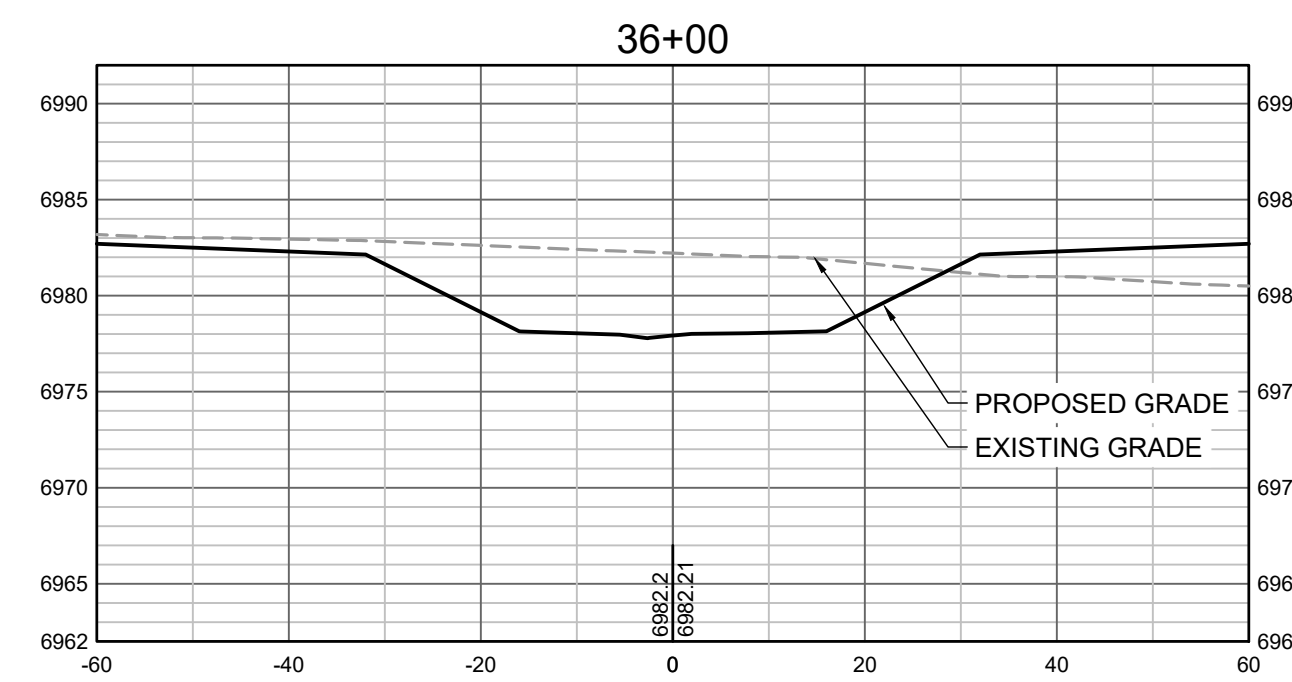


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 CS8 22

HR GREEN Xrefs: xgs-dh01



HR GREEN Xrefs: xgs-1-dh01

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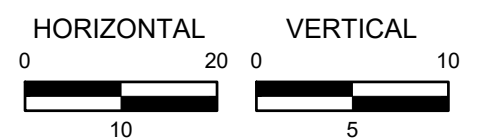
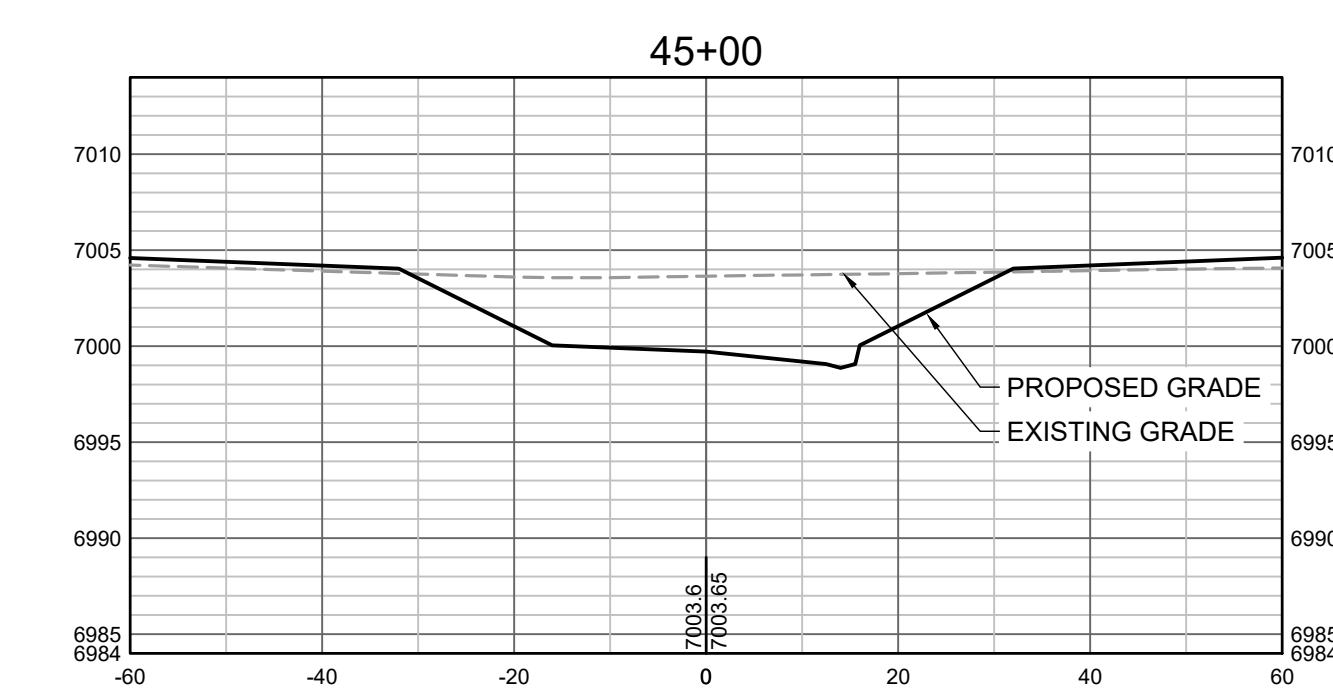
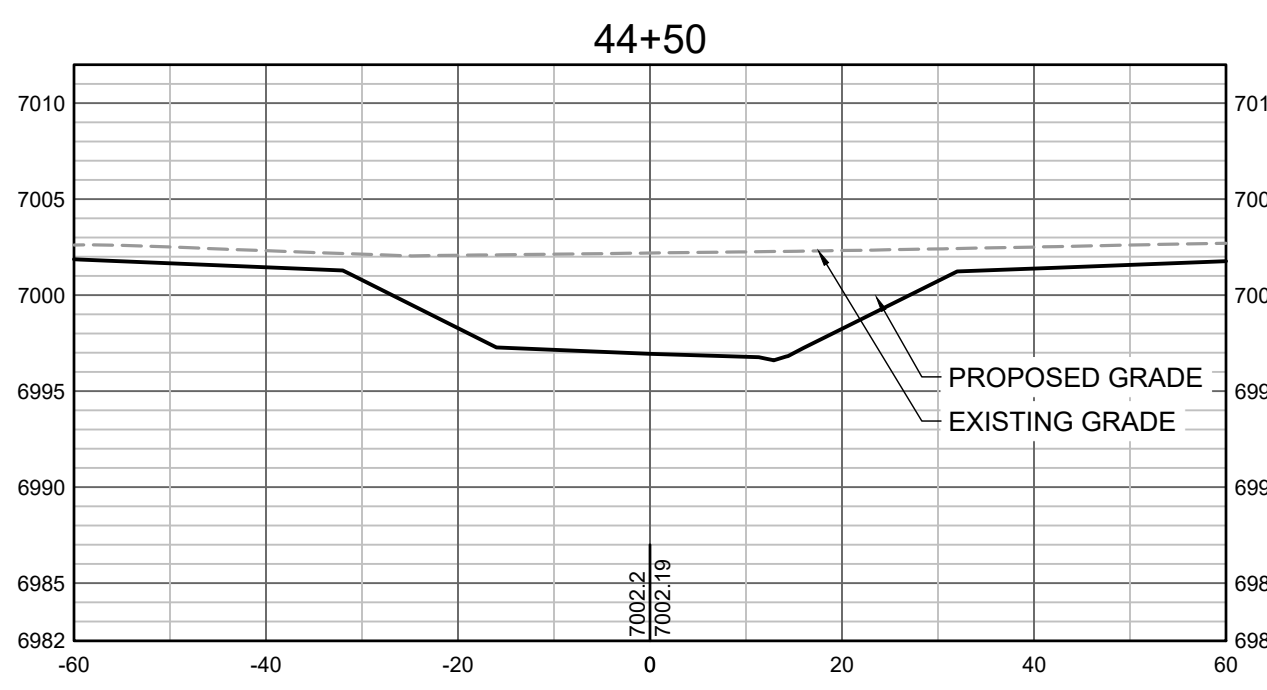
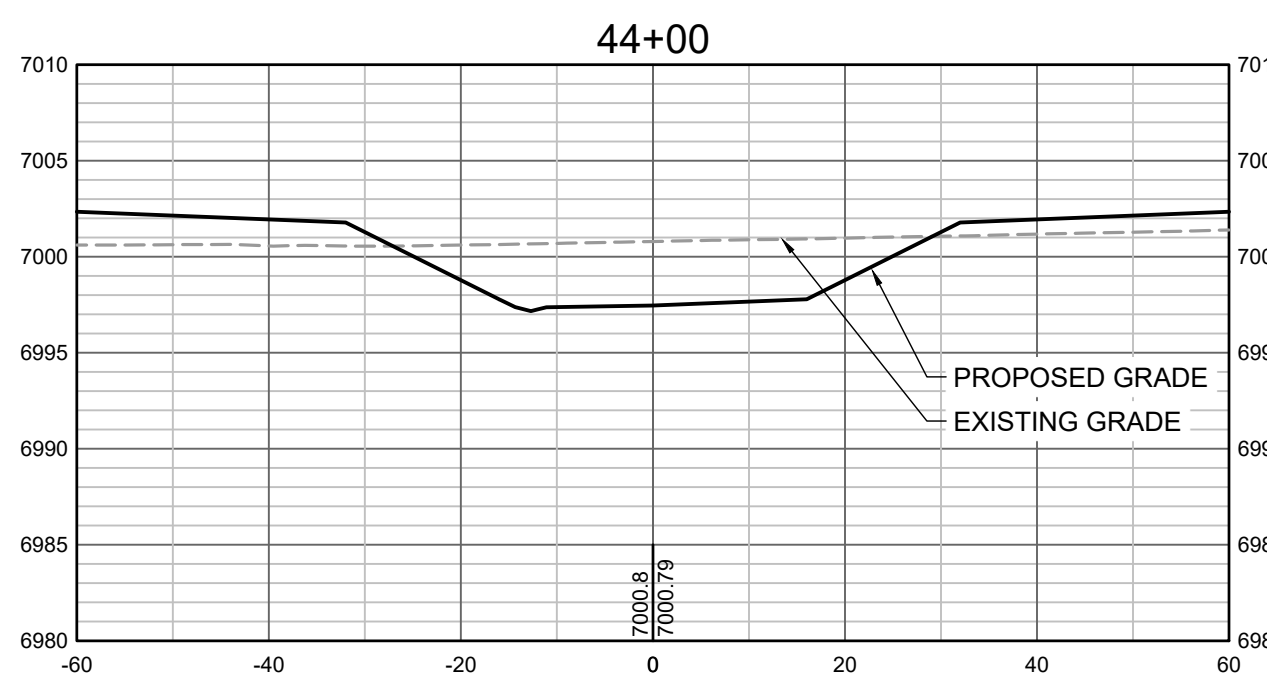
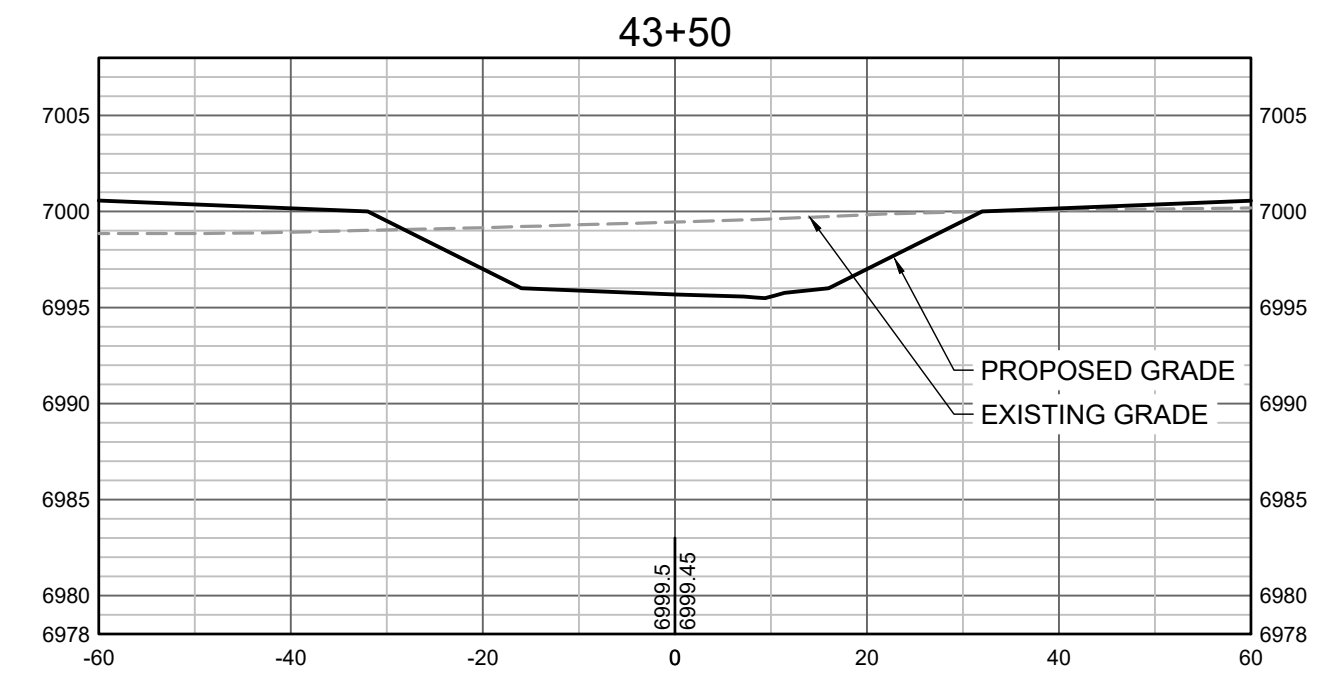
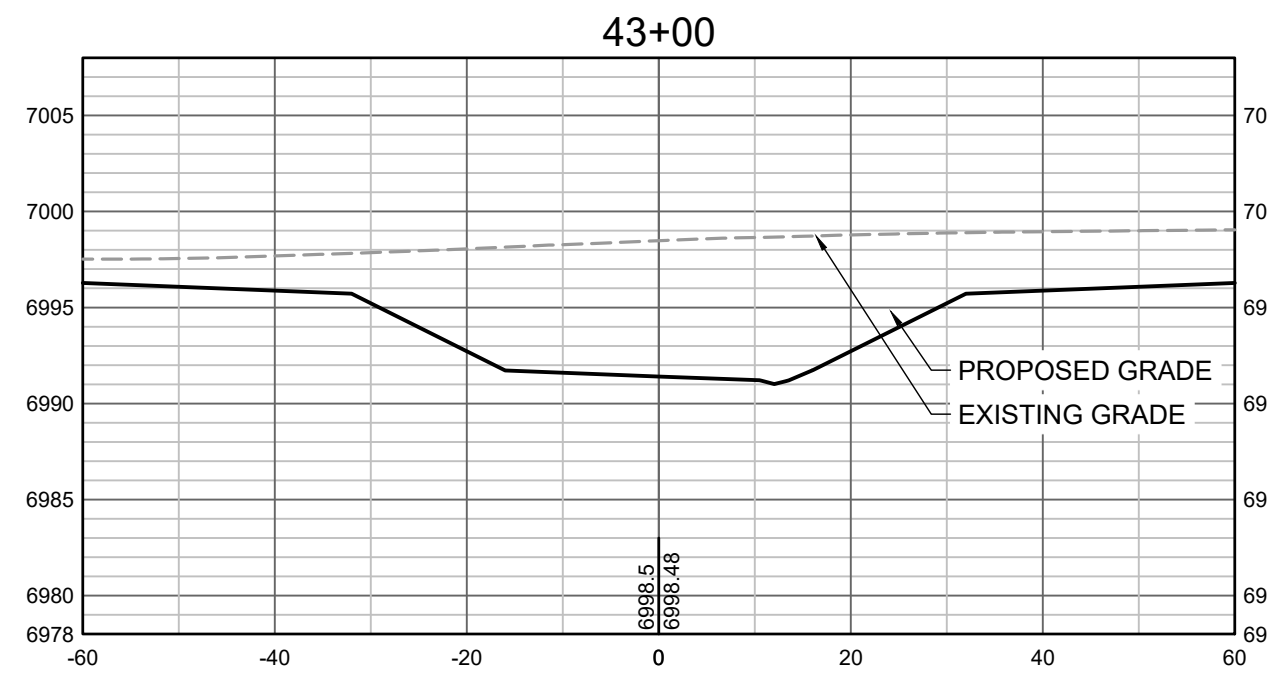
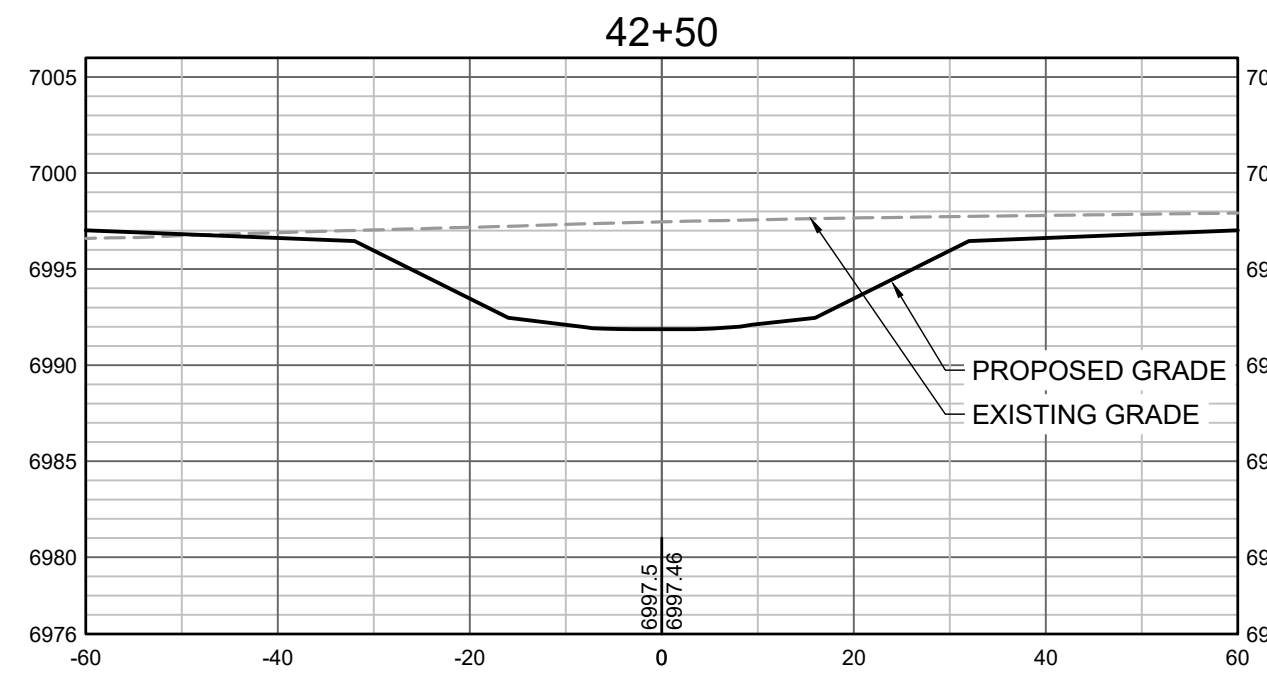
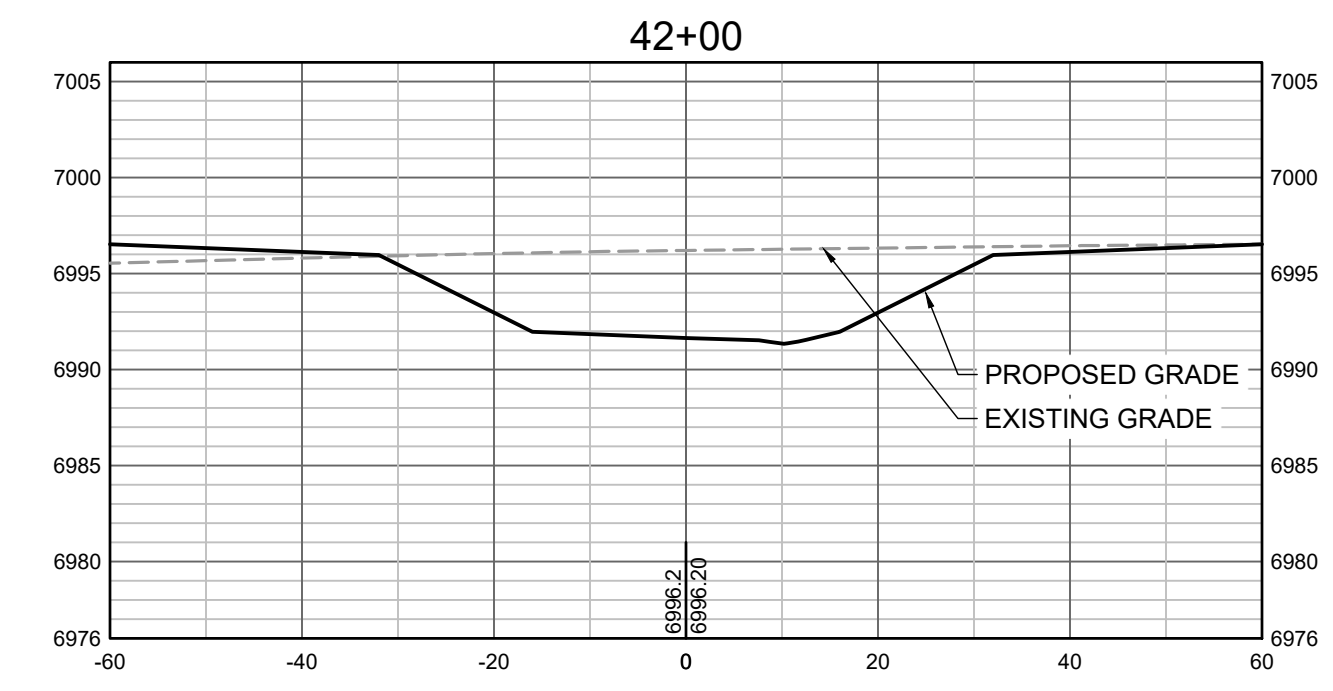
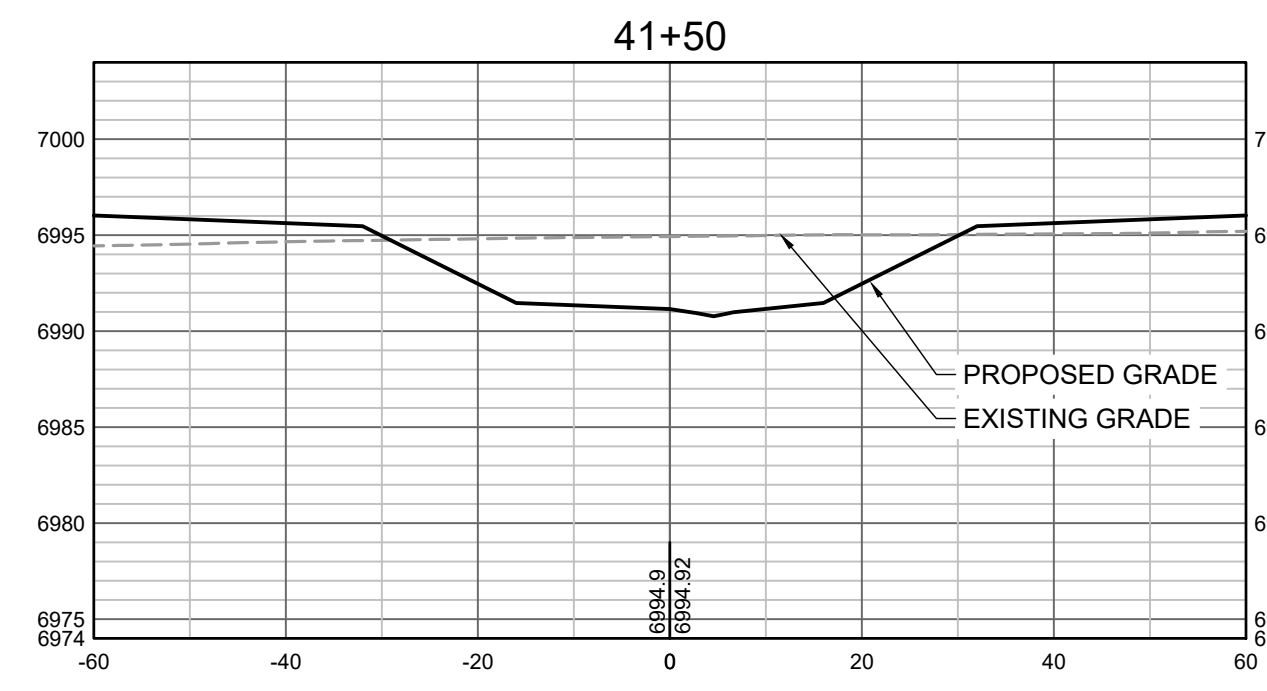
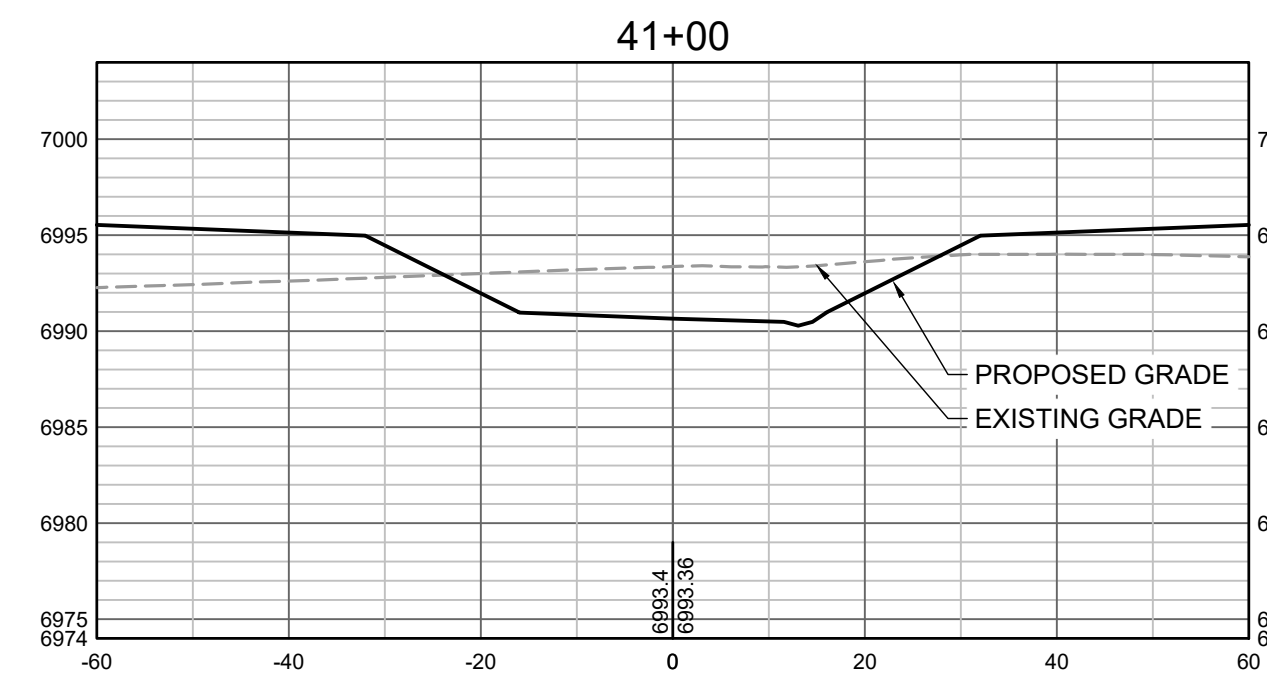
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HR GREEN Xrefs.xgt;-d101

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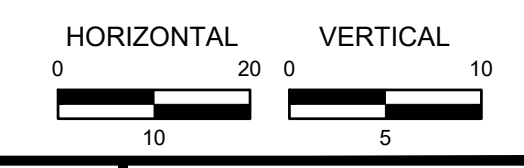
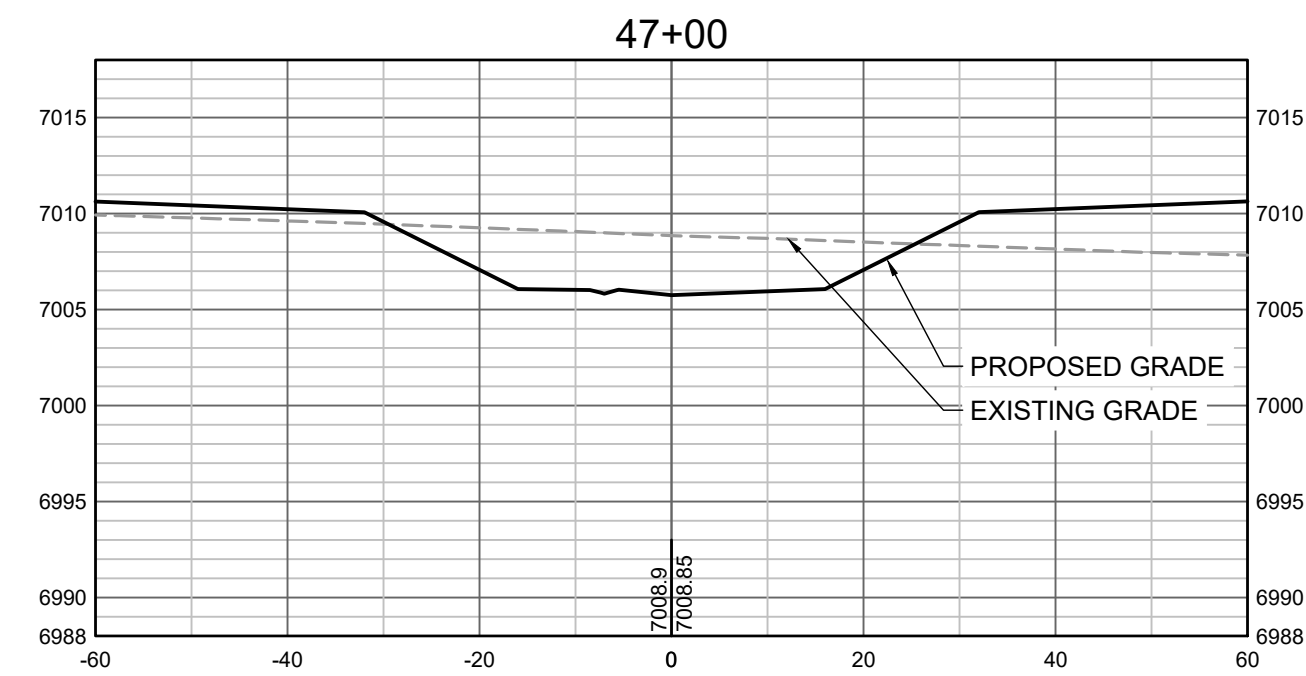
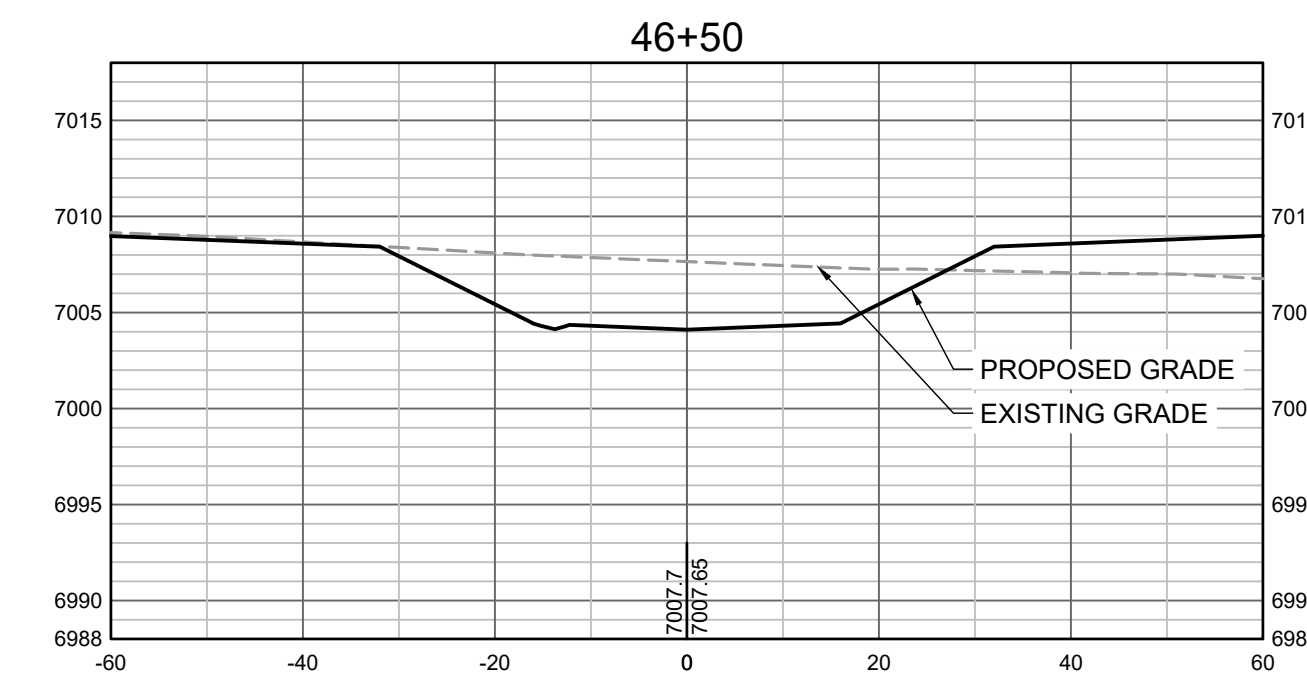
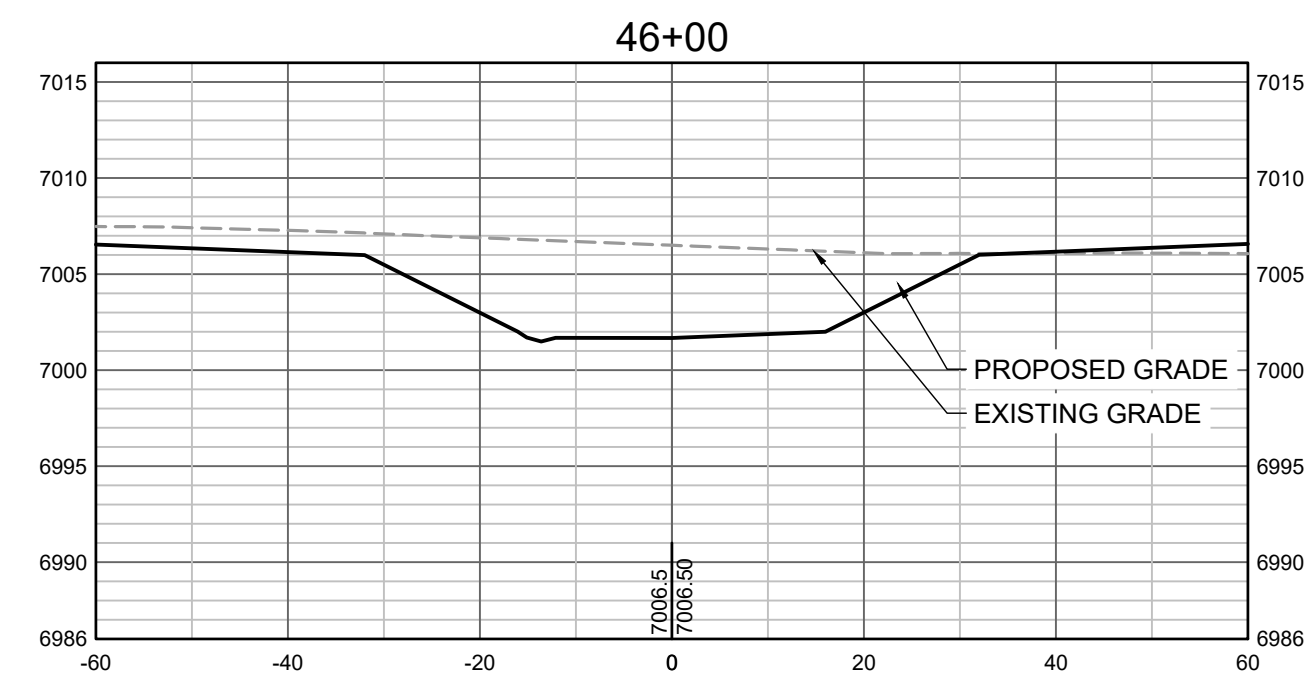
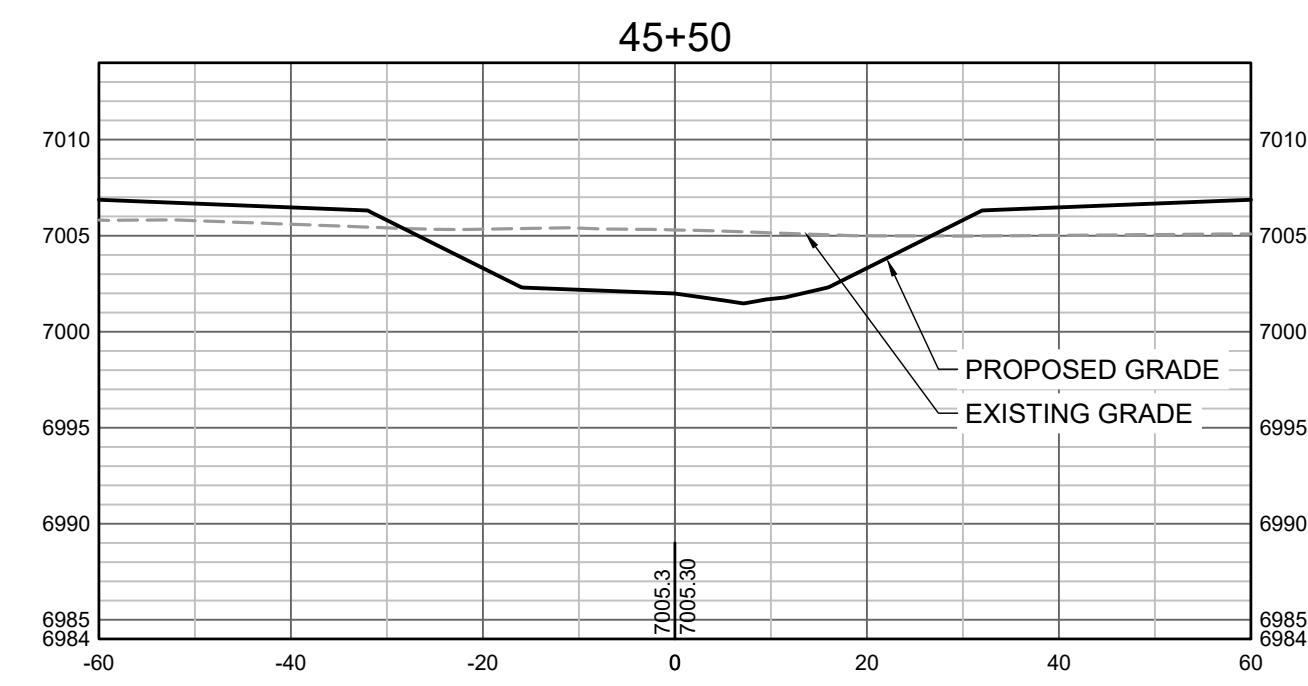
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CS10 24



HR GREEN Xref: xref.dwg

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CS11 25

Figure TS14G-6 Top—riprap grade control structure; Bottom—subsequent launching of riprap at the grade control structure in response to advancing bed degradation and local scour

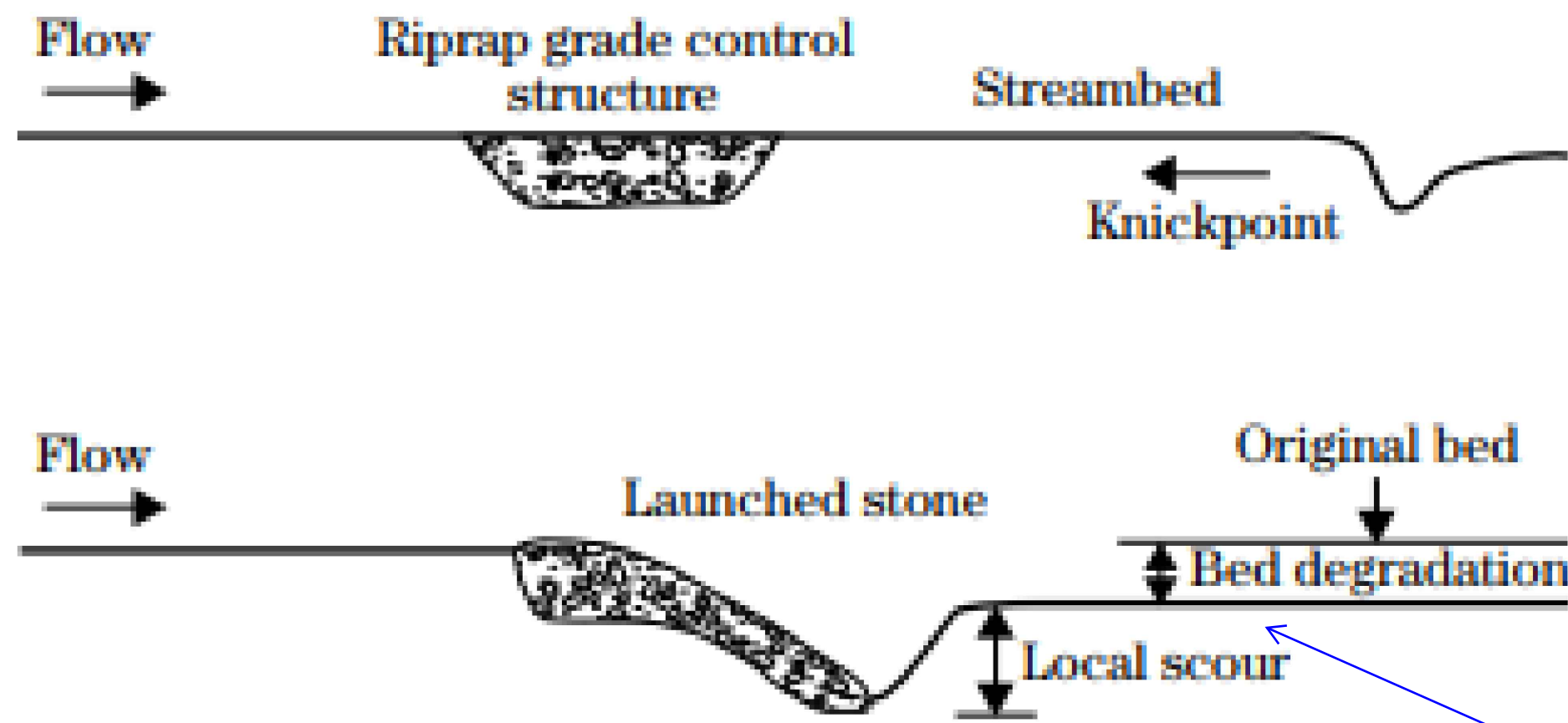
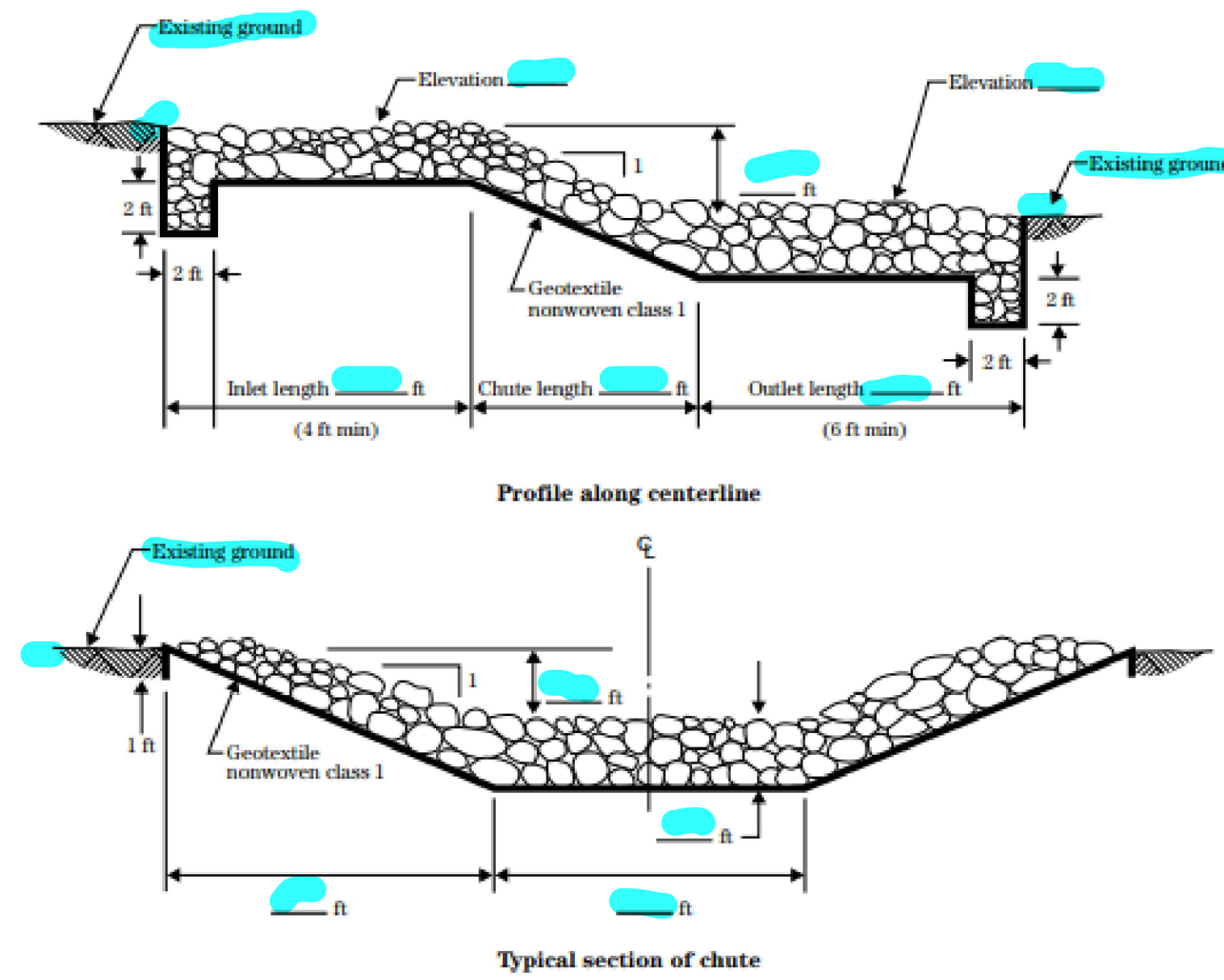
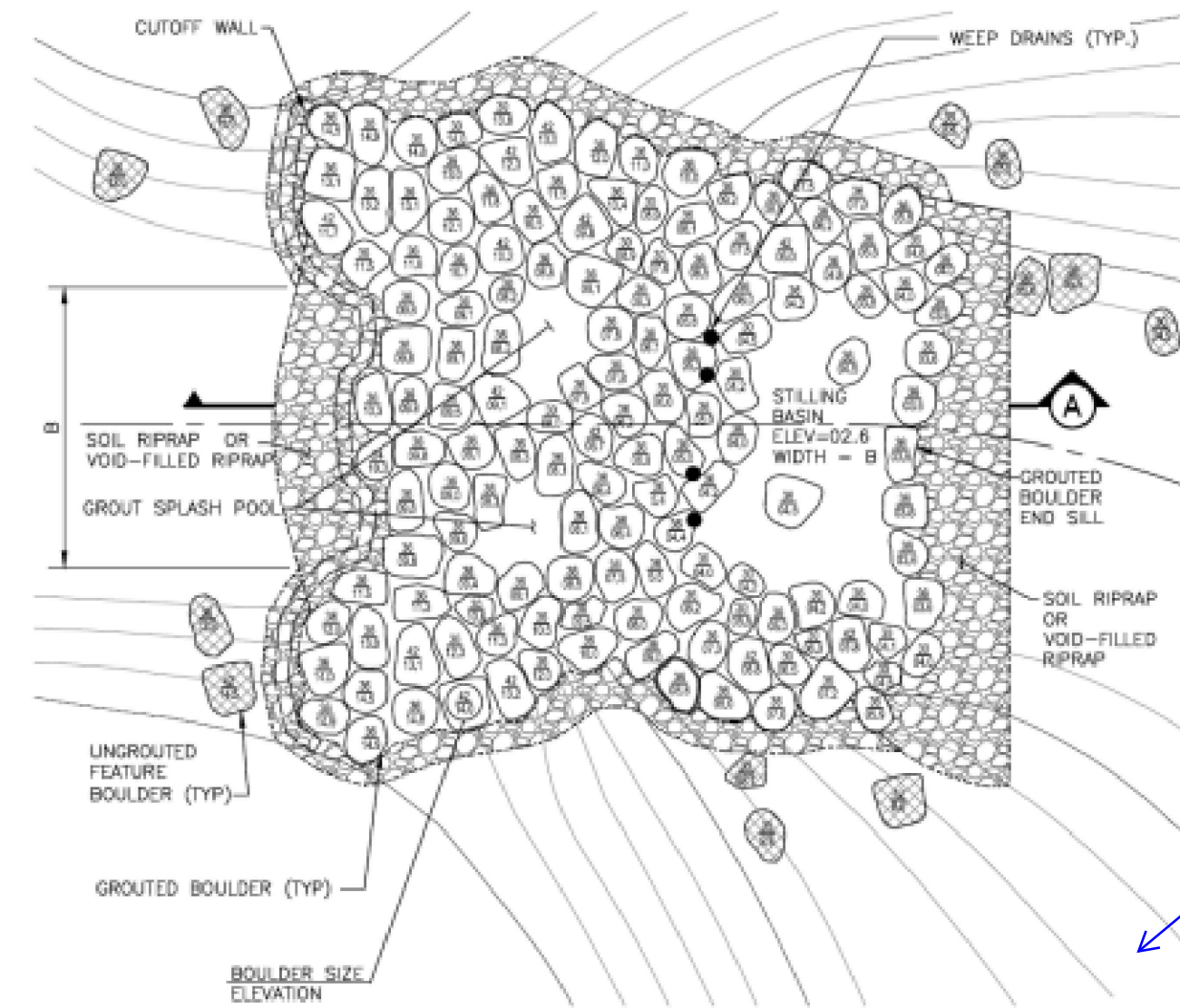


Figure TS14P-32 Design drawings for rock chute grade control structure

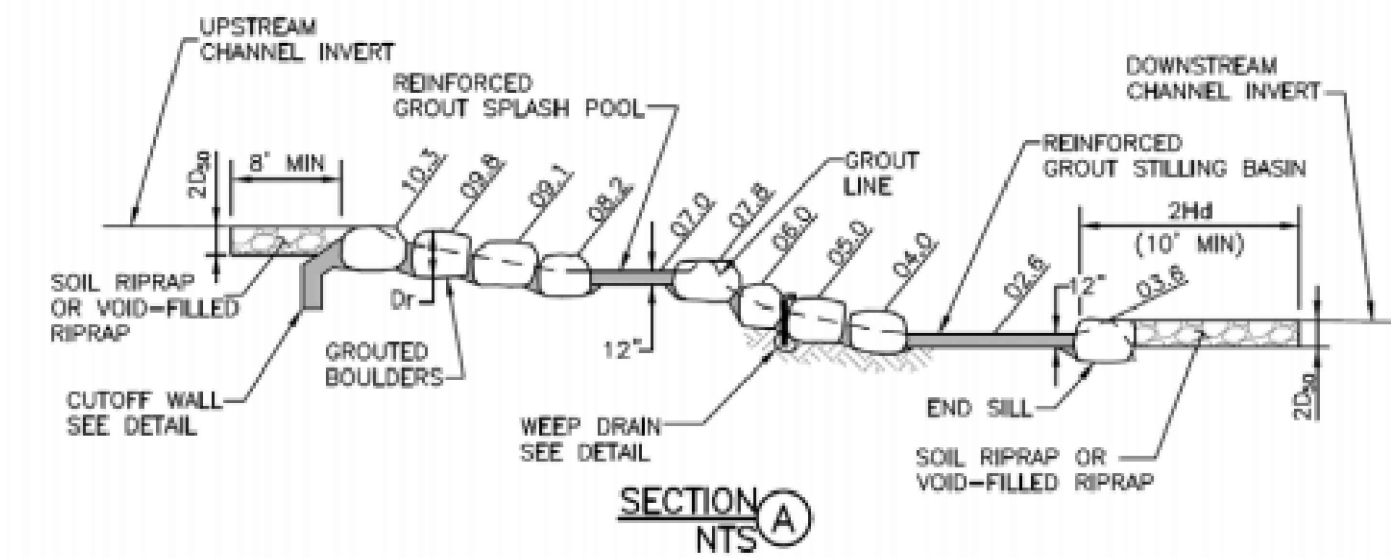


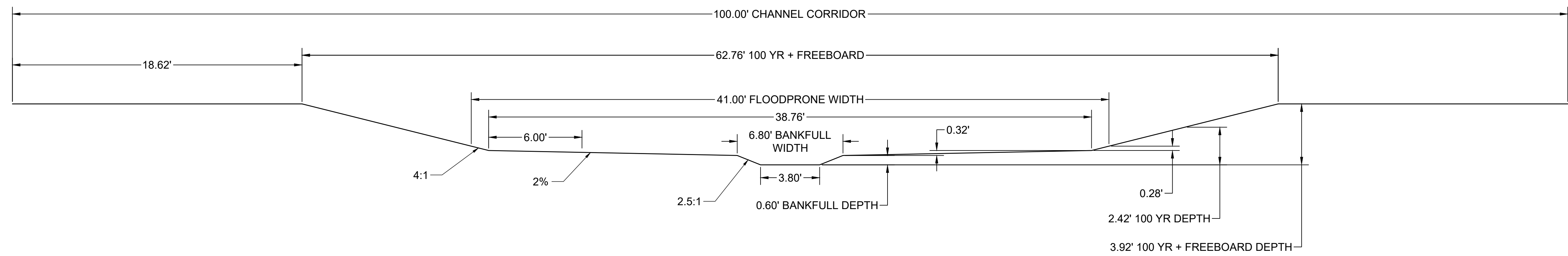
TS14P-16 (210-VI-NEH, August 2007)

This shouldn't be used since it implies that the design is for the channel to erode



Provide site-specific details for each drop





DRAWN BY: TBI JOB DATE: 10/29/2021
 APPROVED: CMM JOB NUMBER: 201662.03
 CAD DATE: 12/10/2021
 CAD FILE: J:\2020\201662.03\CAD\dwgs\CIDDETAILS

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

NO.	DATE	BY	REVISION DESCRIPTION



GRANDVIEW RESERVE
 DR HORTON
 FALCON, COLORADO

GRANDVIEW METRO DISTRICT
 DETAILS

SHEET NO.
 DT2 27