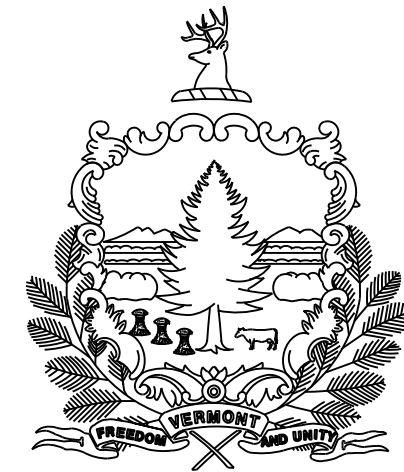


# STATE OF VERMONT AGENCY OF TRANSPORTATION



## PROPOSED IMPROVEMENT BRIDGE PROJECT

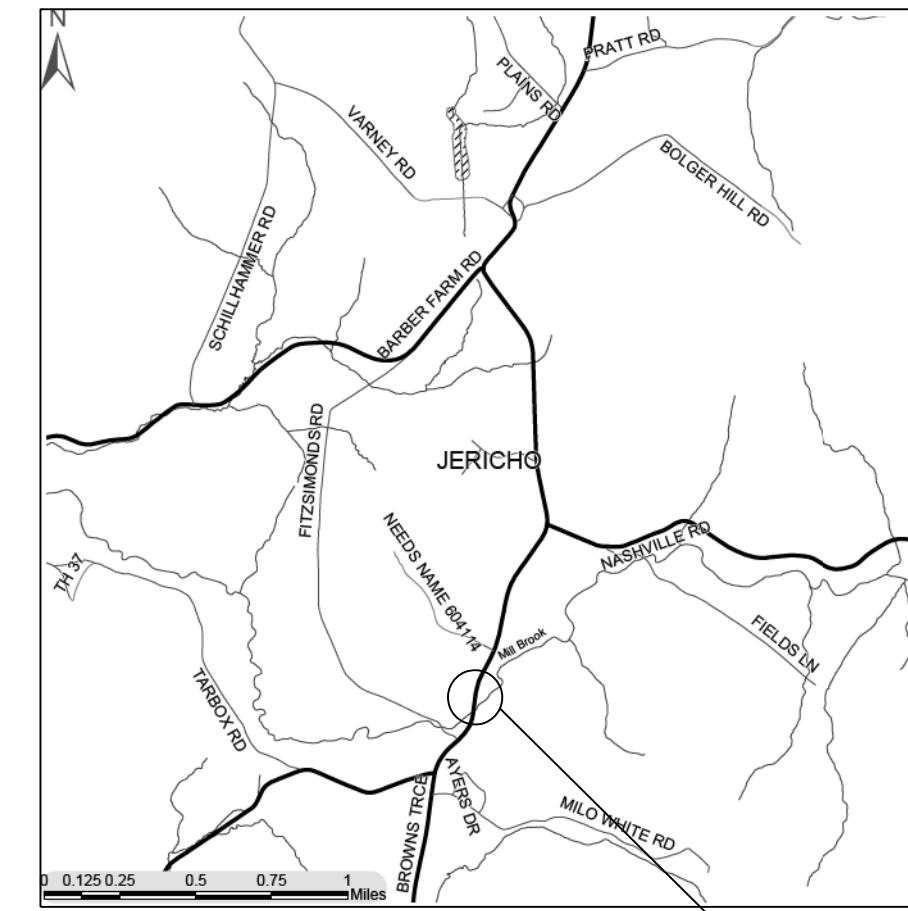
TOWN OF JERICHO  
COUNTY OF CHITTENDEN

ROUTE NO : FAS ROUTE 209 (TH4/BROWNS TRACE RD.) BRIDGE NO : 15

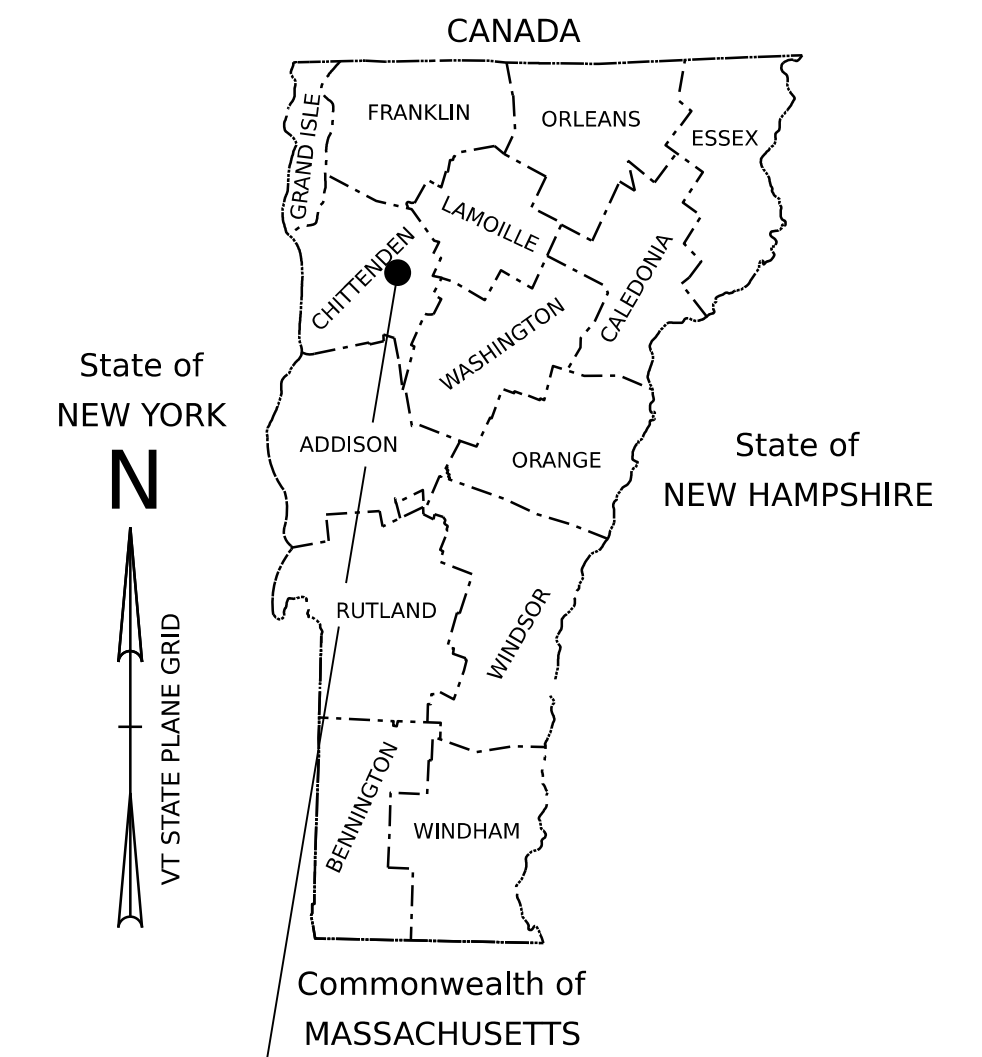
PROJECT LOCATION : TOWN OF JERICHO ON TH 4 (BROWNS TRACE ROAD) APPROXIMATELY 0.12 MILES NORTH OF FITZSIMONDS ROAD.

PROJECT DESCRIPTION : REPLACEMENT OF BRIDGE NO.15 ON TH 4 (BROWNS TRACE RD.) IN JERICHO, OVER MILL BROOK.

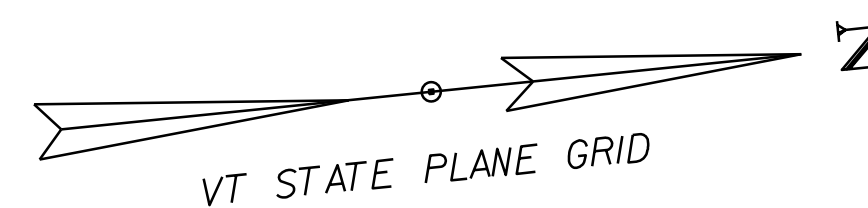
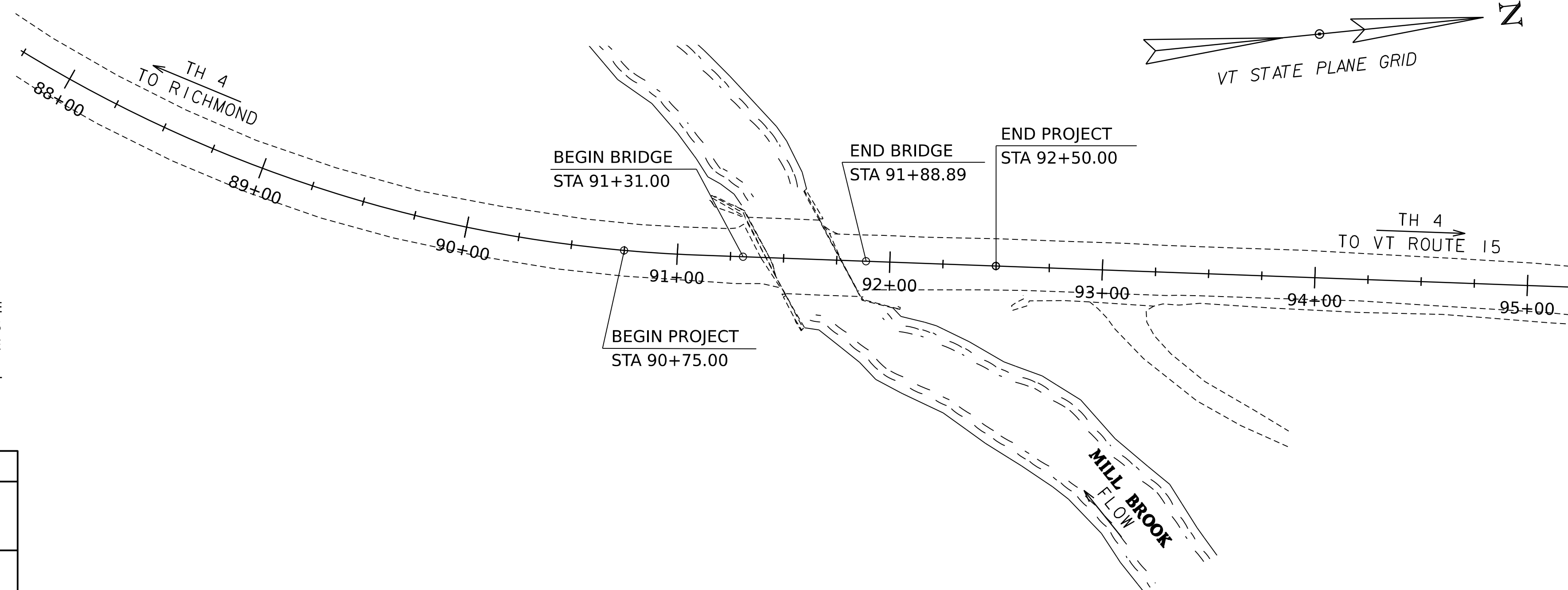
LENGTH OF STRUCTURE : 57.89 FEET.  
LENGTH OF ROADWAY : 117.11 FEET.  
LENGTH OF PROJECT : 175.00 FEET.



LOCATION MAP



JERICHO  
BF 0209 (10)



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2024, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 27, 2023 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	VTRANS
SURVEYED DATE :	5.17.2021
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (2011)

**FINAL PLANS  
25-JUL-2024**

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : ROB YOUNG, P. E.	
PROJECT NAME :	JERICHO
PROJECT NUMBER :	BF 0209 (10)
SHEET 1 OF 47 SHEETS	



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FINAL HYDRAULIC REPORT

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STANDARDS LIST

B-71a	STANDARD FOR RESIDENTIAL DRIVES	04-07-2020
E-10	ROLLED EROSION CONTROL PRODUCT, TYPE I	04-07-2020
E-11	CHECK DAM, TYPE I	04-07-2020
E-12	STABILIZED CONSTRUCTION ENTRANCE	04-07-2020
E-15	SILT FENCE	04-07-2020
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-1995
E-193	PAVEMENT MARKING DETAILS	08-18-1995
G-1	STEEL BEAM GUARDRAIL DETAILS (POST, DELINEATOR, TYPICALS)	03-10-2017
G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	03-10-2017
J-3	MAIL BOX SUPPORT DETAILS	08-07-1995
S-361A	BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM	02-15-2023
S-361B	BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM	02-15-2023
S-361C	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM	02-15-2023
S-400	BRIDGE JOINT ASPHALTIC PLUG	04-07-2020
S-500	CONCRETE DETAILS AND NOTES	02-15-2023
S-501	CONCRETE DETAILS AND NOTES	02-15-2023
S-600	STRUCTURAL DETAILS AND NOTES	02-15-2023
T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
T-2	TRAFFIC SIGN GENERAL NOTES	04-07-2020
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
T-28	CONSTRUCTION SIGN DETAILS	08-06-2012
T-29	CONSTRUCTION SIGN DETAILS	08-06-2012
T-30	CONSTRUCTION SIGN DETAILS	02-17-2022
T-31	CONSTRUCTION SIGN DETAILS	08-06-2012
T-40	DELINEATORS AND MILEPOSTS	01-02-2013
T-42	BRIDGE NUMBER PLAQUE	04-09-2014
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013

DETAIL SHEETS

HSD-400.01	SAFETY EDGE DETAILS	1/5/2018
HSD-621.07A	MIDWEST GUARDRAIL SYSTEM (MGS)	1/4/2021
HSD-621.07B	W-BEAM GUARDRAIL COMPONENTS	4/17/2019
HSD-621.07C	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR	4/17/2019
HSD-621.07D	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR COMPONENTS	4/17/2019
HSD-621.07E	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR COMPONENTS	4/17/2019
HSD-621.07F	MIDWEST GUARDRAIL SYSTEM TRANSITION SECTION	1/4/2021

**HYDROLOGIC DATA** Date: 45226  
 DRAINAGE AREA : 12.5 square miles  
 CHARACTER OF TERRAIN : Mostly forested with rural development  
 STREAM CHARACTERISTICS : Straight to sinous stream with little to no floodplains  
 NATURE OF STREAMBED : Cobble and boulder bed with gravel and some sand

PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)  
 50% = 550 cfs      2% = 1800 cfs  
 10% = 1100 cfs      1% = 2100 cfs  
 4% = 1500 cfs      0.2% = 3100 cfs

NATURAL STREAM VELOCITY : @ 2% AEP = 12.6 fps  
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No  
 IF YES, DESCRIBE: N/A

WATERSHED STORAGE: HEADWATERS: \_\_\_\_\_  
 UNIFORM: X  
 IMMEDIATELY ABOVE SITE: \_\_\_\_\_

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE: Concrete T-Beam  
 YEAR BUILT: 1927  
 CLEAR SPAN(NORMAL TO STREAM): 30 ft.  
 VERTICAL CLEARANCE ABOVE STREAMBED: 9.2 ft.  
 WATERWAY OF FULL OPENING: 320 sq. ft.  
 DISPOSITION OF STRUCTURE: Replacement  
 TYPE OF MATERIAL UNDER SUBSTRUCTURE: See Borings

WATER SURFACE ELEVATIONS AT:  
 50% AEP = 579.0 ft.      VELOCITY = 7.7 fps  
 10% AEP = 580.6 ft.      "      11.6 fps  
 4% AEP = 581.7 ft.      "      13.3 fps  
 2% AEP = 582.5 ft.      "      14.5 fps  
 1% AEP = 583.3 ft.      "      15.5 fps

LONG TERM STREAMBED CHANGES: Scour hole at the southern abutment exposing bridge footings.

IS THE EXISTING BRIDGE ON THE VTRANS SCOUR CRITICAL LIST? No

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No  
 FREQUENCY: N/A  
 RELIEF ELEVATION: N/A  
 DISCHARGE OVER ROAD @ 1% AEP:  
 BRIDGE LOW CHORD ELEVATION: 586.05 ft.

UPSTREAM STRUCTURE

TOWN: Jericho      DISTANCE: 0.9 mi  
 HIGHWAY #: TH-29      STRUCTURE #: Br 30  
 CLEAR SPAN: 88 ft.      CLEAR HEIGHT: unknown  
 YEAR BUILT: 1995      FULL WATERWAY: unknown  
 STRUCTURE TYPE: Girder Bridge

DOWNSTREAM STRUCTURE

TOWN: Jericho      DISTANCE: 660 ft.  
 HIGHWAY #: TH-33      STRUCTURE #: Br 32  
 CLEAR SPAN: 47 ft.      CLEAR HEIGHT: 9.3 ft.  
 YEAR BUILT: 1992      FULL WATERWAY: 430 sq. ft. +/-  
 STRUCTURE TYPE: Slab Bridge

ADDITIONAL INFORMATION

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR.	4A STR.	5A SEMI
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY	1.95	1.08					
POSTING							
OPERATING	2.53	1.4	2.41	1.4	1.82	1.65	1.94

COMMENTS:

PROPOSED STRUCTURE

STRUCTURE TYPE: Slab Bridge  
 CLEAR SPAN(NORMAL TO STREAM): 45.0 ft.  
 VERTICAL CLEARANCE ABOVE STREAMBED: 12.7 ft. +/-  
 WATERWAY OF FULL OPENING: 590 sq. ft. +/-

WATER SURFACE ELEVATIONS AT:  
 50% AEP = 579.2 ft.      VELOCITY = 9.5 fps  
 10% AEP = 580.4 ft.      "      12.4 fps  
 4% AEP = 581.1 ft.      "      13.6 fps  
 2% AEP = 581.7 ft.      "      14.3 fps  
 1% AEP = 582.3 ft.      "      14.8 fps

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No  
 FREQUENCY: N/A  
 RELIEF ELEVATION: N/A  
 DISCHARGE OVER ROAD @ 1% AEP: N/A

BRIDGE LOW CHORD ELEVATION: 588.5 ft.  
 FREEBOARD: 6.8 ft. @ 2% AEP

SCOUR: Calculated Total Scour at Abutment is 3.1 ft. @ 1% AEP, design scour event and 3.7 ft. @ 0.5% AEP, the check scour event.\*  
 REQUIRED CHANNEL PROTECTION: Stonefill Type IV

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: N/A\*\*  
 CLEAR SPAN (NORMAL TO STREAM): N/A  
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A  
 WATERWAY AREA OF FULL OPENING: N/A

ADDITIONAL INFORMATION

\*Scour depths result in total scour elevations of 569.8 ft. and 569.2 ft.  
 \*\*No temporary structure

CALCULATIONS BY: CNB  
 CHECKED BY: KRF

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.
2. TRAFFIC SIGNALS ARE NOT NECESSARY.
3. SIDEWALKS ARE NOT NECESSARY

DESIGN VALUES

1. DESIGN LIVE LOAD	HL-93
2. FUTURE PAVEMENT	d <sub>p</sub> : 2.5 INCH
3. DESIGN SPAN	L: 55.00 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ: 1.43 INCH
5. PRESTRESSING STRAND (0.60 INCH DIAMETER - LOW RELAX)	f <sub>y</sub> : 270 KSI
6. PRESTRESSED CONCRETE STRENGTH	f' <sub>c</sub> : 8.0 KSI
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f' <sub>cr</sub> : 6.0 KSI
8. HIGH PERFORMANCE CONCRETE, CLASS PCD	f' <sub>c</sub> : 4.0 KSI
9. HIGH PERFORMANCE CONCRETE, CLASS PCS	f' <sub>c</sub> : 3.5 KSI
10. CONCRETE HIGH PERFORMANCE, CLASS SCC	f' <sub>c</sub> : 4.0 KSI
11. CONCRETE, CLASS C	f' <sub>c</sub> : 3.0 KSI
12. REINFORCING STEEL	f <sub>y</sub> : 60 KSI
13. STRUCTURAL STEEL AASHTO M270	f <sub>y</sub> : ---
14. NOMINAL BEARING RESISTANCE OF SOIL	q <sub>n</sub> : ---
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: ---
16. NOMINAL BEARING RESISTANCE OF ROCK	q <sub>n</sub> : ---
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: ---
18. PILE RESISTANCE FACTOR	φ: 0.65
19. LATERAL PILE DEFLECTION	Δ: 0.00 INCH
20. BASIC WIND SPEED	V <sub>3s</sub> : ---
21. MINIMUM GROUND SNOW LOAD	p <sub>g</sub> : ---
22. SEISMIC DATA	PGA: --- S <sub>s</sub> : --- S <sub>1</sub> : ---

23. ---
24. ---
25. ---
26. ---

PROJECT NAME: JERICHO  
 PROJECT NUMBER: BF 0209(10)

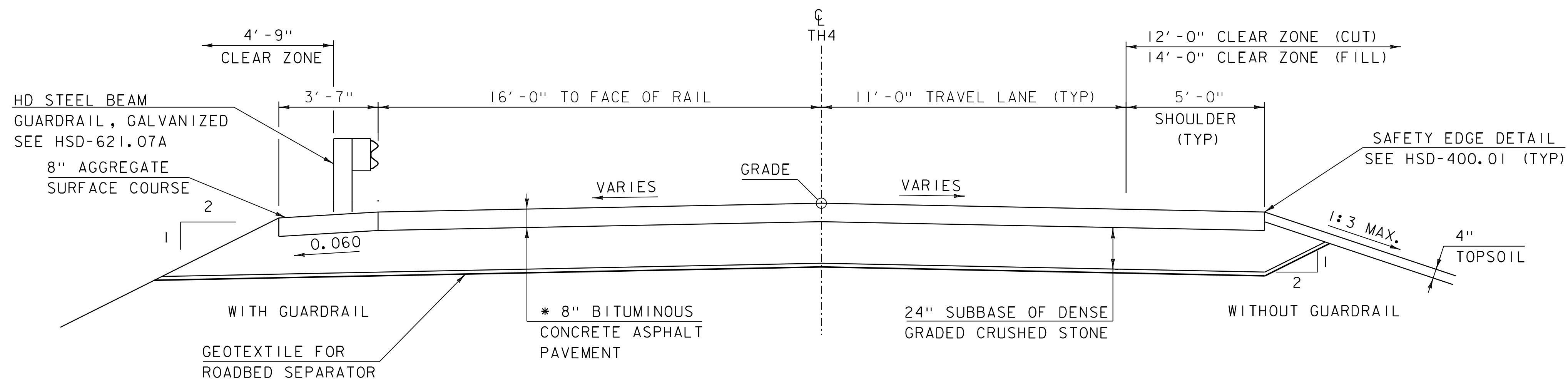
FILE NAME: sj2j634forms.dgn      PLOT DATE: 25-JUL-2024  
 PROJECT LEADER: R. YOUNG      DRAWN BY: A. MANN  
 DESIGNED BY: F. BARROWS      CHECKED BY: F. BARROWS  
 PRELIMINARY INFORMATION SHEET      SHEET 2 OF 47

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	20 year ESAL for flexible pavement from	
					2025	2045
2025	3200	480	59	5.2	2025	948000
2045	3500	520	59	8.3	2025	2249000

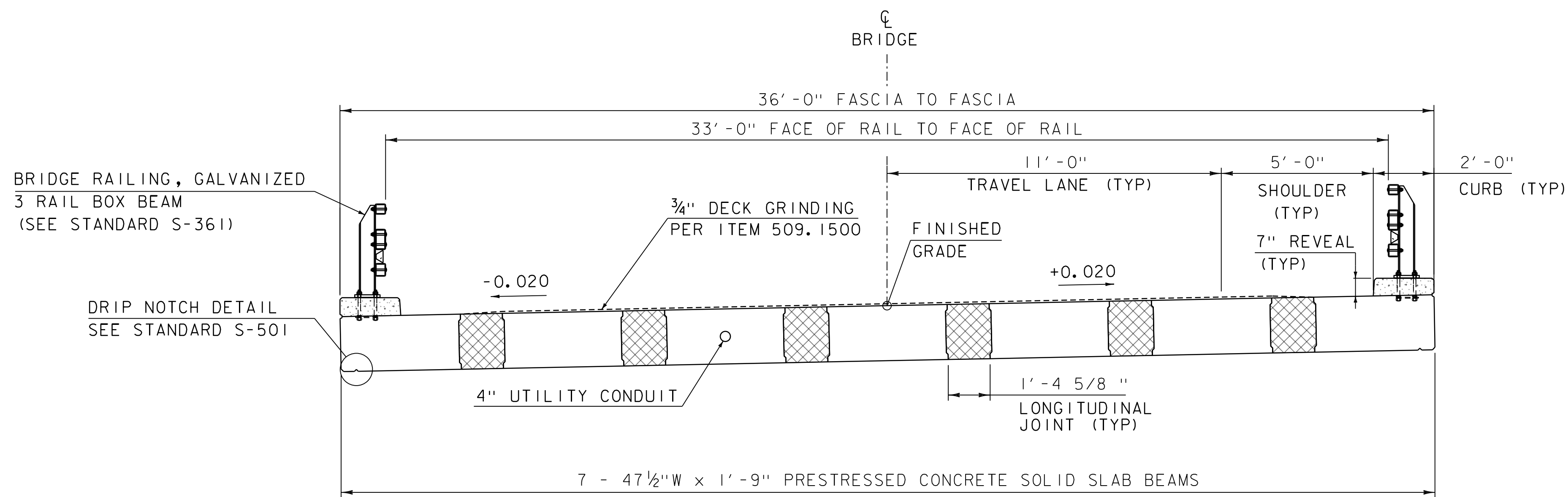
Design Speed : 35 mph

AS BUILT	"REBAR"	DETAIL
LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:



**TH4 TYPICAL SECTION**  
SCALE 3/8" = 1'-0"

- \* 1 1/2" TYPE IVS
- 1 1/2" TYPE IVS
- 2 1/2" TYPE IIS
- 2 1/2" TYPE IIS



**BRIDGE TYPICAL SECTION**  
SCALE 3/8" = 1'-0"

**PAVEMENT SPECIFICATIONS**

DESIGN LANE/DESIGN LIFE ESALS	559,320
PERFORMANCE GRADE ASPHALT BINDER	70-28
DESIGN NUMBER OF GYRATIONS	65

EMULSION SHALL BE APPLIED PER THE APPLICATION RATES IN TABLE 406.12A OF THE STANDARD SPECIFICATIONS.

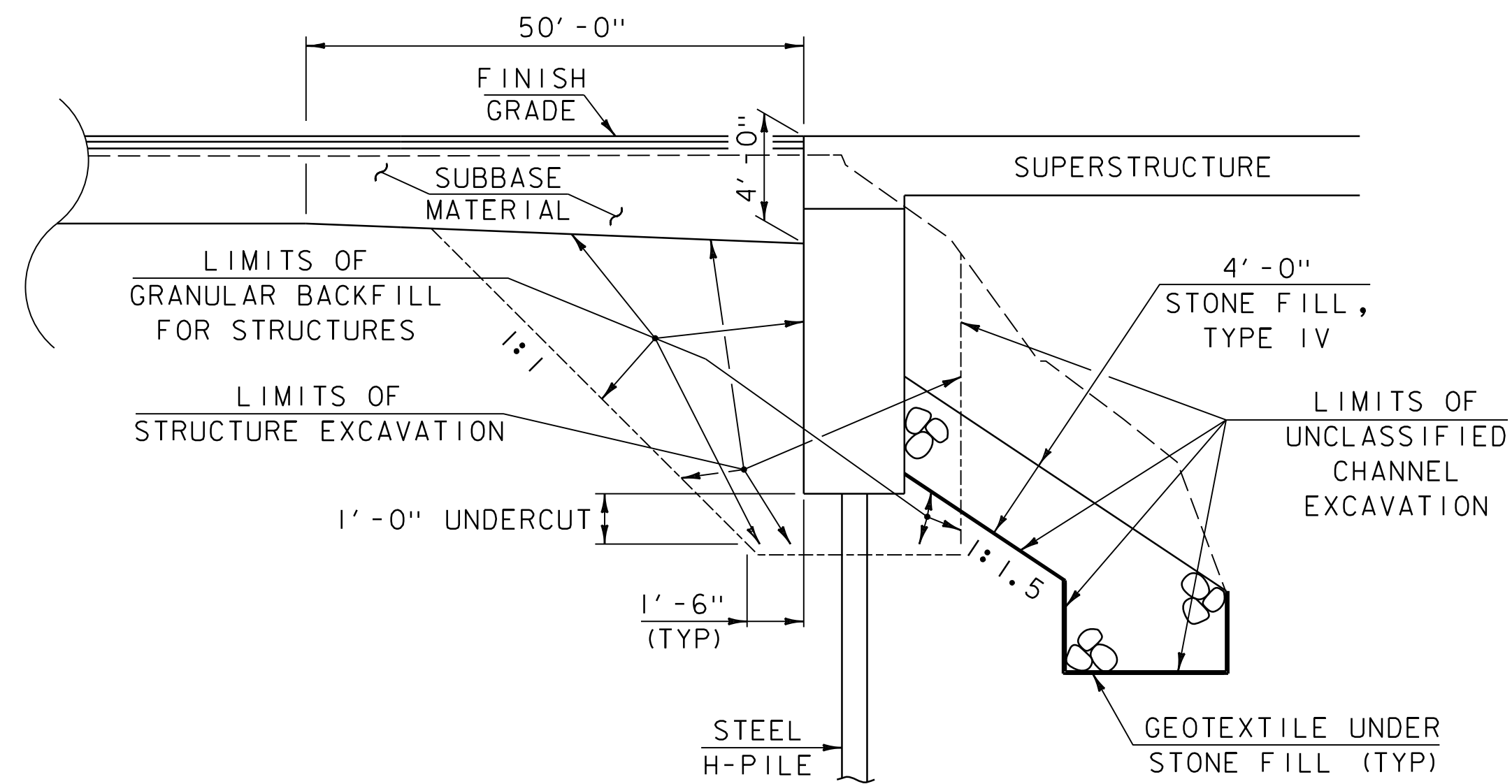
**MATERIAL TOLERANCES**  
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

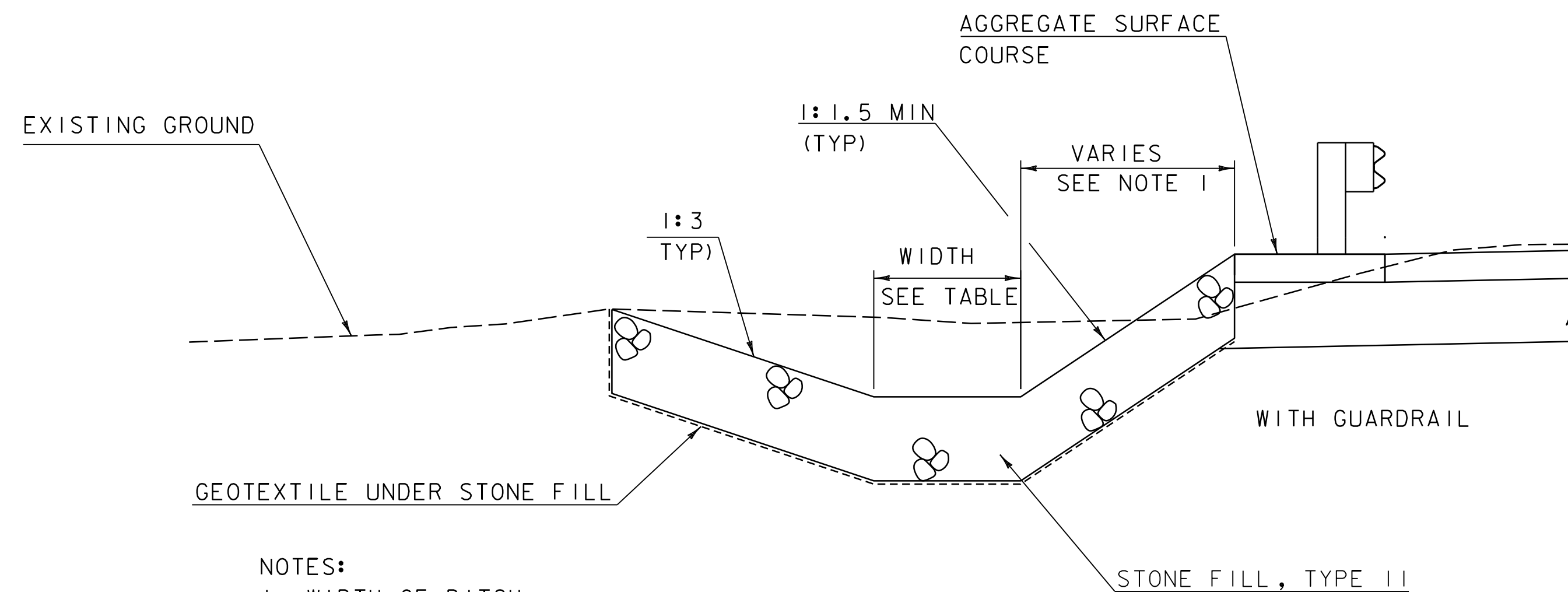
PROJECT NAME: JERICHO  
PROJECT NUMBER: BF 0209(10)

FILE NAME: sl2j634+yp.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: F. BARROWS  
TYPICAL SECTIONS I

PLOT DATE: 25-JUL-2024  
DRAWN BY: A. MANN  
CHECKED BY: F. BARROWS  
SHEET 3 OF 47



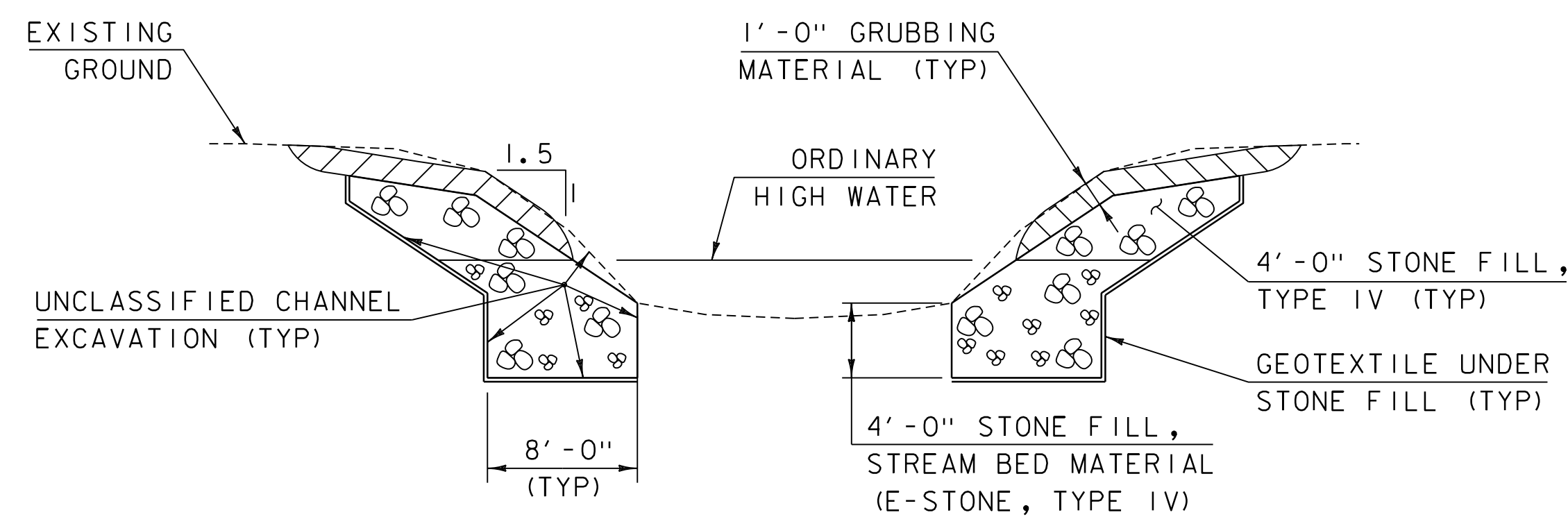
ABUTMENT EARTHWORK TYPICAL SECTION



NOTES:  
1. WIDTH OF DITCH FORESLOPE VARIES, SEE CROSS SECTIONS

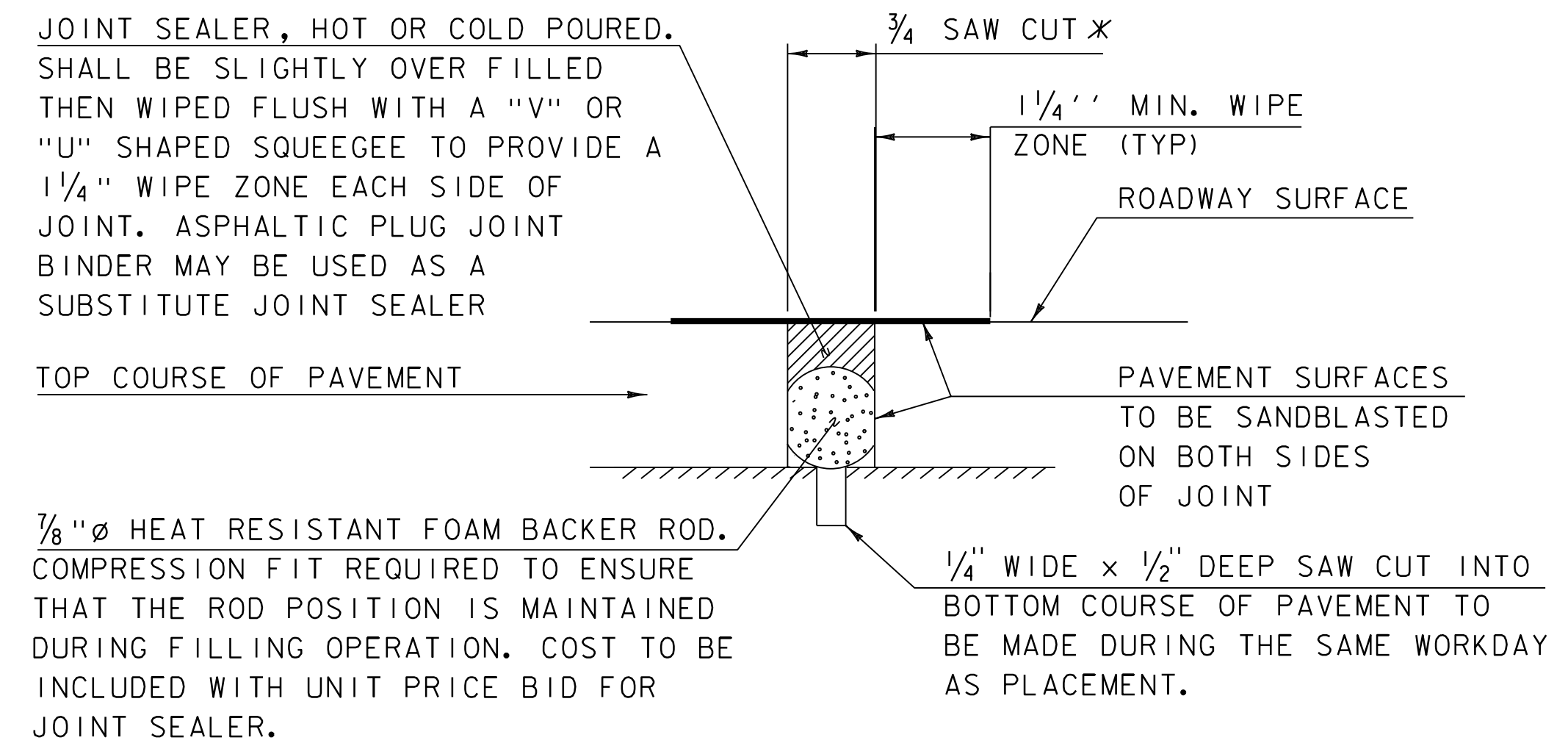
STA	90+00 TO 91+30 RT	WIDTH OF 2.5'
STA	91+80 TO 93+50 LT	WIDTH OF 3.5

STONE LINED DITCH TYPICAL



CHANNEL TYPICAL SECTION

- WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.
- GRUBBING MATERIAL SHALL BE PLACED UNDERNEATH STRUCTURES WHERE THERE IS MORE THAN 6 FEET VERTICALLY FROM ORDINARY HIGH WATER (OHW) TO THE BOTTOM OF SUPERSTRUCTURE AND MORE THAN 6 FEET HORIZONTALLY FROM OHW LINE TO FRONT FACE OF ABUTMENT. THIS MATERIAL SHALL START JUST ABOVE THE OHW ELEVATION AND TERMINATE 3 FEET HORIZONTALLY FROM THE FRONT FACE OF THE ABUTMENT. THIS MATERIAL SHALL NOT BE PLACED IN AREAS THAT WILL SEE CONCENTRATED FLOWS RESULTING FROM SURFACE WATER RUNOFF. GRUBBING MATERIAL MAY BE OMITTED IF LESS THAN 3 FEET IN WIDTH BENEATH A STRUCTURE. SEE CHANNEL SECTIONS FOR ADDITIONAL DETAILING.



SAWED PAVEMENT JOINT DETAIL  
(NOT TO SCALE)

- \* JOINT IS TO BE LOCATED ACCURATELY BY STRING LINING, OR OTHER MEANS, PRIOR TO PAVING, SO THAT THE SAW CUTS WILL BE MADE DIRECTLY OVER THE END OF CONCRETE DECK. JOINT SHALL BE CUT DRY IN A SINGLE PASS AND BE SEALED WITHIN 24 HOURS OR PRIOR TO EXPOSURE TO TRAFFIC. JOINT SHALL BE CLEANED PRIOR TO APPLYING THE JOINT SEALER.

PROJECT NAME: JERICO  
PROJECT NUMBER: BF 0209(10)

FILE NAME: sl2j634+yp.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: F. BARROWS  
TYPICAL SECTIONS 2

PLOT DATE: 25-JUL-2024  
DRAWN BY: A. MANN  
CHECKED BY: F. BARROWS  
SHEET 4 OF 47

**GENERAL**

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION 2024 STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9th EDITION, AND THEIR LATEST REVISIONS.
2. THE CONTRACTOR SHALL PROVIDE A SITE-SPECIFIC EROSION PREVENTION AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH SECTION 653 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. ESTIMATED QUANTITIES FOR EPSC WORK HAVE BEEN INCLUDED IN THE CONTRACT FOR BIDDING PURPOSES. IF THE CONTRACTOR'S EPSC PLAN REQUIRES ITEMS OF WORK THAT ARE NOT INCLUDED IN THE PLANS, THE EXTRA WORK WILL BE PAID FOR AS PART OF ITEM 653.0300 "MAINTENANCE OF EPSC PLAN".
3. THE AREA(S) OF DISTURBANCE ARE SHOWN ON THE ENVIRONMENTAL IMPACT PLANS, WHICH ARE REFERENCED IN THE SPECIAL PROVISIONS, NOTICE TO BIDDER - OTHER SPECIFICATIONS AND CONTRACT REQUIREMENTS.
4. THE SOLID SLABS AND THE JOINTS WILL HAVE AN INITIAL THICKNESS OF 21.75 INCHES. AFTER THE JOINTS HAVE CURED AND BRIDGE RAIL IS INSTALLED, THE ENTIRE BRIDGE DECK SURFACE SHALL BE DIAMOND GROUND A NOMINAL 0.75 INCHES FOR A RESULTING DECK THICKNESS OF 21 INCHES. PAYMENT WILL BE MADE UNDER ITEM 509.1500 "CONCRETE BRIDGE DECK SURFACE PREPARATION".

**EARTHWORK AND RELATED ITEMS**

5. THE REMOVAL OF EXISTING STRUCTURE WILL BE PAID UNDER ITEM 529.1500, "REMOVAL OF STRUCTURE". THIS WORK SHALL INCLUDE REMOVAL OF THE ENTIRE SUPERSTRUCTURE AND ANY PORTIONS OF THE EXISTING ABUTMENTS THAT FALL OUTSIDE THE LIMITS OF STRUCTURE EXCAVATION OR UNCLASSIFIED CHANNEL EXCAVATION ABOVE ELEVATION 572.00 FT.
6. ANY ADDITIONAL EXCAVATION BELOW 572.00 FT TO REMOVE ANY REMAINING PORTIONS OF THE ABUTMENTS THAT MAY OBSTRUCT PILE DRIVING SHALL BE PAID FOR AS STRUCTURE EXCAVATION.
7. BACKFILL FOR EXCAVATION BELOW ELEVATION 572.00 FT FOR THE REMOVAL OF THE EXISTING ABUTMENT SHALL BE PAID FOR UNDER ITEM 204.3000, "GRANULAR BACKFILL FOR STRUCTURES". MATERIAL MEETING THE GRADATION REQUIREMENTS FOR SUBSECTION 704.02(a) COARSE AGGREGATE FOR CONCRETE, MAY BE SUBSTITUTED FOR GRANULAR BACKFILL FOR STRUCTURES BELOW 572.00 FT ONLY.
8. THE "STONE FILL, TYPE IV" UNDER THE BRIDGE AS SHOWN IN THE PLANS SHALL BE PLACED BEFORE THE NEW SOLID SLABS ARE SET.

**TRAFFIC CONTROL**

9. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, IMPLEMENTATION, AND SUBMITTAL OF A SITE- SPECIFIC TRAFFIC CONTROL PLAN FOR ALL STAGES OF CONSTRUCTION. CLEARLY DETAIL HOW TRAFFIC WILL BE MAINTAINED. ALL COSTS WILL BE INCLUDED IN ITEM 641.1100 "TRAFFIC CONTROL, ALL-INCLUSIVE."
10. THE LOCAL DETOUR IS THE RESPONSIBILITY OF THE TOWN OF JERICHO.

**CONCRETE**

11. WATER REPELLENT, SILANE, SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES, EXCEPT THE UNDERSIDE OF THE DECK BETWEEN DRIP NOTCHES.
12. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" X 1" UNLESS OTHERWISE NOTED.

**REINFORCING STEEL**

13. TEST BARS SHALL BE PROVIDED IN ACCORDANCE WITH THE "VERMONT AGENCY OF TRANSPORTATION MATERIAL SAMPLING MANUAL" AVAILABLE ON THE AGENCY WEBSITE. A MINIMUM OF TWO TEST SECTIONS ARE REQUIRED FOR EACH SIZE, BRAND, AND GRADE OR TYPE OF REINFORCING. SEE THE MANUAL FOR ACCEPTABLE DIMENSIONS OF TEST SECTIONS. ALL COSTS ASSOCIATED WITH PROVIDING BARS FOR TESTING WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE PRECAST ITEM.

14. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE:

SPACING: +/- 1 INCH  
CLEARANCE: +/- 1/4 INCH

**PRESTRESSED SOLID SLAB BEAMS**

15. JACKING FORCE PER PRESTRESSING STRAND = 44 KIPS
16. NO HOLES MAY BE DRILLED IN ANY PRECAST ELEMENTS WITHOUT THE APPROVAL OF THE FABRICATOR AND THE AGENCY.
17. THE CONTRACTOR SHALL CONFIRM, PRIOR TO THE SOLID SLABS FABRICATION DRAWING BEING SUBMITTED FOR REVIEW, THAT THE CALCULATED CAMBER ESTIMATE IS COMPATIBLE WITH THE GRADES AND ELEVATIONS OF THE REST OF THE STRUCTURE.
18. THE CONTRACTOR SHALL SUBMIT THE ERECTION PLAN A MINIMUM OF 30 CALENDAR DAYS PRIOR TO THE ERECTION. UNDER NO CIRCUMSTANCES SHALL THE SUPERSTRUCTURE BE ERECTED PRIOR TO HAVING AN ACCEPTED ERECTION PLAN.
19. ALL LIFTING POINTS IN THE SUPERSTRUCTURE SHALL BE REMOVABLE TO THE MINIMUM CLEAR COVER FOR REINFORCING STEEL SPECIFIED IN THE PLANS. PAYMENT FOR THIS WORK WILL BE INCLUDED IN THE PAYMENT OF ITEM 510.2500 "PRESTRESSED CONCRETE SOLID SLABS (SDB48-21)".
20. ALL RECESSED LIFTING POINTS, ANCHOR BOLTS, AND BLOCK OUTS SHALL BE FILLED WITH A TYPE IV MORTAR PER SUBSECTION 707.01. PAYMENT WILL BE INCLUDED IN THE PAYMENT OF ITEM 510.2500 "PRESTRESSED CONCRETE SOLID SLABS (SDB48-21)".
21. THE CONCRETE EDGES ALONG THE LONGITUDINAL CLOSURE POURS SHALL BE TREATED TO PROVIDE A ROUGHENED/ EXPOSED AGGREGATE SURFACE. THE AMPLITUDE OF THE EXPOSED AGGREGATE SHALL BE A MINIMUM OF 1/8" AND BE COMPLETE PRIOR TO THE ERECTION OF THE BEAMS. THE FABRICATOR SHALL INDICATE THE METHOD USED TO ACHIEVE THIS PROFILE ON THE FABRICATOR DRAWING AND THE METHOD USED TO PROTECT THE REINFORCING STEEL.
22. ALL EMBEDDED HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH SUBSECTION 726.06.
23. UTILITY CONDUIT WITHIN THE PRECAST SLAB SHALL BE INCIDENTAL TO ITEM 510.2500 "PRESTRESSED CONCRETE SOLID SLABS (SDB48-21)."

**HIGH PERFORMANCE CONCRETE, RAPID SET - LOADING**

24. THE SUPERSTRUCTURE MAY BE LOADED WITH CONSTRUCTION AND TRAFFIC LOADS WHEN FIELD-CURED CYLINDERS REACH A COMPRESSIVE STRENGTH OF 4000PSI.

**H-PILES**

25. PILES SHALL BE DRIVEN TO A NOMINAL AXIAL RESISTANCE OF 286 KIPS AND EMBEDDED A MINIMUM OF 25 FEET BELOW THE BOTTOM OF THE PILE CAP. ANY WORK REQUIRED FOR DRIVING SHALL BE PAID FOR UNDER ITEM 504.1000 "FURNISHING EQUIPMENT FOR DRIVING PILING".
26. FOR ESTIMATING PURPOSES, THE PILE TIP ELEVATIONS WERE ASSUMED AS SHOWN ON THE BORING LOGS. THE ACTUAL IN-PLACE LENGTHS MAY VARY BASED ON BEDROCK ELEVATION.
27. A MINIMUM OF ONE DYNAMIC PILE LOAD TEST SHALL BE PERFORMED PER ABUTMENT.

**UTILITIES**

28. THE INSTALLED CONDUITS SHALL MEET THE SPECIFICATIONS OF THE APPROPRIATE UTILITY COMPANY.
29. THE CONTRACTOR SHALL SUPPLY CONDUIT AND JUNCTION BOXES NECESSARY TO INSTALL UNDERGROUND UTILITIES AS SHOWN IN THE PLANS. THIS WORK SHALL BE PAID FOR UNDER ITEM 625.1004 "SLEEVES FOR UTILITIES, HDPE, 4 INCH" AND ITEM "JUNCTION BOX" RESPECTIVELY.

**MISCELLANEOUS**

30. MAINTAIN ACCESS TO THE DRIVE AT ALL TIMES UNLESS PRIOR APPROVAL FROM THE PROPERTY OWNER IS PROVIDED TO THE ENGINEER.
31. MOVEMENT OF THE BOULDER AT THE END OF THE DRIVE, AS INDICATED IN THE LAYOUT SHEET, IS INCIDENTAL TO 635.1100 "MOBILIZATION/DEMOBILIZATION".

STRUCTURAL ELEMENT (BRIDGE)	CONCRETE		REINFORCING STEEL	
	TO MEET THE REQUIREMENTS FOR:	PAYMENT TO BE INCLUDED IN:	TO MEET THE REQUIREMENTS FOR:	PAYMENT TO BE INCLUDED IN:
PRESTRESSED SLAB	ITEM 510.2500 "PRESTRESSED CONCRETE SOLID SLABS (SDB48-21)."	ITEM 510.2500 PRESTRESSED CONCRETE SOLID SLABS ( SDB48-21)."	ITEM 507.1200 "REINFORCING STEEL, LEVEL II"	ITEM 5107.2500 PRESTRESSED CONCRETE SOLID SLABS ( SDB48-21)".
BRIDGE CURBS	501.3700 "PERFORMANCE-BASED CONCRETE, CLASS PCD"	525.3130 "BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM"	ITEM 507.1200 "REINFORCING STEEL, LEVEL II"	525.3130 BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM
CIP SLAB JOINTS	ITEM 542.1000 "HIGH PERFORMANCE CONCRETE, RAPID SET" (FPQ)"	ITEM 542.1000 "HIGH PERFORMANCE CONCRETE, RAPID SET" (FPQ)"	ITEM 507.1200 "REINFORCING STEEL, LEVEL II"	ITEM 507.1200 "REINFORCING STEEL, LEVEL II"
ABUTMENT 1 & 2	501.3800 "PERFORMANCE-BASED CONCRETE, CLASS PCS"	501.3800 "PERFORMANCE-BASED CONCRETE, CLASS PCS"	ITEM 507.1100 "REINFORCING STEEL, LEVEL I (FPQ)"	ITEM 507.1100 "REINFORCING STEEL, LEVEL I (FPQ)"
CHEEK WALLS/ TOP OF WINGWALLS	501.3700 "PERFORMANCE-BASED CONCRETE, CLASS PCD"	501.3700 "PERFORMANCE-BASED CONCRETE, CLASS PCD"	ITEM 507.1100 "REINFORCING STEEL, LEVEL I (EPOXY COATED)" (FPQ)"	ITEM 507.1100 "REINFORCING STEEL, LEVEL I (EPOXY COATED)" (FPQ)"
APPROACH SLAB 1 AND 2	501.3800 "PERFORMANCE-BASED CONCRETE, CLASS PCS"	501.3800 "PERFORMANCE-BASED CONCRETE, CLASS PCS"	ITEM 507.1100 "REINFORCING STEEL, LEVEL I (EPOXY COATED)" (FPQ)"	ITEM 507.1100 "REINFORCING STEEL, LEVEL I (EPOXY COATED)" (FPQ)"
PILE CAVITIES	ITEM 542.1000 "HIGH PERFORMANCE CONCRETE, RAPID SET" (FPQ)"	ITEM 542.1000 "HIGH PERFORMANCE CONCRETE, RAPID SET" (FPQ)"	N/A	N/A

PROJECT NAME:	JERICHO	PLOT DATE:	25-JUL-2024
PROJECT NUMBER:	BF 0209(10)	DRAWN BY:	A. MANN
FILE NAME:	sl2j634forms.dgn	CHECKED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	SHEET	5 OF 47
DESIGNED BY:	F. BARROWS		
PROJECT NOTES			

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
						1011 - ROADWAY	1051 - EROSION CONTROL	1083 - UTILITIES - BID ITEMS /NO	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
									1		1		DL	INCENTIVE OR DISINCENTIVE (N.A.B.I.)	199.8101				<b>EARTHWORK SUMMARY</b>
						1					1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.1000				<b>FILL AVAILABLE</b>
						1620					1620		CY	COMMON EXCAVATION	203.1500		1620	CY	COMMON EXCAVATION (1620 x 1.0)
									570		570		CY	UNCLASSIFIED CHANNEL EXCAVATION	203.2700		171	CY	UNCLASSIFIED CHANNEL EXCAVATION ( 570 x 0.3)
								20			20		CY	TRENCH EXCAVATION OF EARTH	204.2000		2.1	CY	TRENCH EXCAVATION OF EARTH ( 7 x 0.3)
						1					1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.2200		99	CY	STRUCTURE EXCAVATION ( 330 x 0.3)
									330		330		CY	STRUCTURE EXCAVATION	204.2500		1892	CY	TOTAL FILL
									220		220		CY	GRANULAR BACKFILL FOR STRUCTURES	204.3000		8	CY	ROUNDING
						300					300		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.1000		1900	CY	TOTAL FILL AVAILABLE
						1					1		LS	RETAINING WALL, CONCRETE ((308 SF) )	225.0500		287.5	CY	FILL REQUIRED
						522					522		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.3500		2.5	CY	FACTORED FILL (250 X 1.15)
						45					45		CY	AGGREGATE SURFACE COURSE	401.1000				ROUNDING
						20					20		CWT	TACK COAT, EMULSIFIED ASPHALT	404.1100		290	CY	TOTAL FILL REQUIRED
						170					170		TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, QA TIER III	406.0230		1610	CY	TOTAL WASTE MATERIAL
						160					160		TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IVS, QA TIER III	406.0430				<b>BITUMINOUS CONCRETE PAVEMENT SUMMARY</b>
						80					80		SY	BITUMINOUS CONCRETE PAVEMENT, NON-PAVER PLACED, TYPE IVS	406.3400				<b>BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, QA TIER III</b>
						1					1		DL	PAY ADJUSTMENT, BCP, MIXTURE PROPERTIES (N.A.B.I.)	406.9100		84	TON	BASE COURSE 1
						1					1		DL	PAY ADJUSTMENT, BCP, MAT DENSITY (N.A.B.I.)	406.9200		84	TON	BASE COURSE 2
									230		230		CY	PERFORMANCE-BASED CONCRETE, CLASS PCS	501.3800				<b>BITUMINOUS CONCRETE PAVEMENT, TYPE IVSB, QA TIER III</b>
									1		1		LS	FURNISHING EQUIPMENT FOR DRIVING PILING	504.1000				<b>INTERMEDIATE COURSE</b>
									800		800		LF	STEEL PILING, HP 14 x 89	505.1800				<b>WEARING COURSE</b>
									2		2		EACH	DYNAMIC PILE LOADING TEST	505.4500				
									63600		63600		LB	REINFORCING STEEL, LEVEL I	507.1100				
									406		406		LF	PRESTRESSED CONCRETE SOLID SLABS (SDB48-21)	510.2500				
									41		41		GAL	WATER REPELLENT, SILANE	514.1000				
									74		74		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG (FPQ)	516.1000				
									74		74		LF	JOINT SEALER, HOT Poured (FPQ)	524.1100				
									118		118		LF	BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM (FPQ)	525.3130				
									1		1		EACH	REMOVAL OF STRUCTURE ((EXISTING BRIDGE, 36FT X 35FT) )	529.1500				
									21		21		EACH	BEARING DEVICE ASSEMBLY, STEEL REINFORCED ELASTOMERIC PAD	531.1700				
									35		35		CY	HIGH PERFORMANCE CONCRETE, RAPID SET (FPQ)	542.1000				
						10					10		HR	ALL-PURPOSE EXCAVATOR RENTAL, TYPE I	608.2501				
						0.25					0.25		MGAL	DUST CONTROL WITH WATER	609.1000				
						420					420		CY	STONE FILL, TYPE II	613.1002				
									575		575		CY	STONE FILL, TYPE IV	613.1004				
								1			1		LS	IN-WATER SEDIMENT ISOLATION MEASURES	614.2000				
						1					1		EACH	REMOVE AND RESET MAILBOX, SINGLE SUPPORT	617.1100				
						160					160		LF	REMOVAL OF GUARDRAIL	621.0100				
						110					110		LF	HD STEEL BEAM GUARDRAIL	621.1260				
						1					1		EACH	ANCHOR FOR STEEL BEAM GUARDRAIL	621.1520				

PROJECT NAME: JERICHO  
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FILE NAME: sl2j634forms.dgn PLOT DATE: 25-JUL-2024  
PROJECT LEADER: R. YOUNG DRAWN BY: A. MANN  
DESIGNED BY: F. BARROWS CHECKED BY: F. BARROWS  
QUANTITY SHEET 1 SHEET 6 OF 47

# QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
						1011 - ROADWAY	1051 - EROSION CONTROL	1083 - UTILITIES - BID ITEMS /NO	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
						4					4		EACH	TRAFFIC BARRIER DELINEATOR	621.1560				
						3					3		EACH	MTS, MGS, TANGENT, TL-2	621.3020				
						4					4		EACH	GUARDRAIL APPROACH SECTION, HD STEEL BEAM	621.8030				
								100			100		LF	SLEEVES FOR UTILITIES, HDPE, 4 INCH	625.1004				
								2			2		EACH	JUNCTION BOX	625.7010				
						100					100		HR	UNIFORMED TRAFFIC OFFICERS	630.1000				
						400					400		HR	FLAGGERS	630.1500				
										1	1		LS	FIELD OFFICE, ENGINEER'S	631.1000				
										1	1		LS	TESTING EQUIPMENT, CONCRETE	631.1600				
										1	1		LS	TESTING EQUIPMENT, BITUMINOUS	631.1700				
										3000	3000		DL	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	631.2600				
						4					4		EACH	CPM SCHEDULE	633.1000				
						1					1		LS	MOBILIZATION/DEMOBILIZATION	635.1100				
						1					1		LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.1100				
						2					2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.1500				
						750					750		LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.4040				
						751					751		LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.4140				
						890					890		SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.1100				
						1250			490		1740		SY	GEOTEXTILE UNDER STONE FILL	649.3100				
							185				185		SY	TURF ESTABLISHMENT, GENERAL SEED	651.1500				
							30				30		CY	TOPSOIL	651.3500				
							1094				1094		SY	GRUBBING MATERIAL, 12 INCH	651.4012				
							1				1		LS	EPSC PLAN	653.0100				
							40				40		HR	MONITORING EPSC PLAN	653.0200				
							1				1		DL	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	653.0300				
							0.5				0.5		TON	HAY MULCH	653.1000				
							100				100		SY	ROLLED EROSION CONTROL PRODUCT, TYPE I	653.2001				
							30				30		CY	STABILIZED CONSTRUCTION ENTRANCE	653.3500				
							400				400		LF	SILT FENCE, TYPE II	653.4702				
							640				640		LF	BARRIER FENCE	653.5000				
							100				100		LF	EROSION LOG	653.6000				
						9					9		SF	TRAFFIC SIGN, FLAT SHEET ALUMINUM	675.2000				
						28					28		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.3410				
						6					6		EACH	SIGN REMOVAL, FLAT SHEET ALUMINUM	675.5000				
						4					4		EACH	DELINEATOR WITH STEEL POST	676.1000				

PROJECT NAME: JERICHO  
PROJECT NUMBER: BF 0209(10)  
FILE NAME: sl2j634forms.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: F. BARROWS  
QUANTITY SHEET 2  
PLOT DATE: 25-JUL-2024  
DRAWN BY: A. MANN  
CHECKED BY: F. BARROWS  
SHEET 7 OF 47

**GENERAL INFORMATION**

**SYMBOLGY LEGEND NOTE**

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

**R.O.W. ABBREVIATIONS (CODES) & SYMBOLS**

POINT CODE	DESCRIPTION
BF	BARRIER FENCE
CH	CHANNEL EASEMENT
CONST	CONSTRUCTION EASEMENT
CUL	CULVERT EASEMENT
D&C	DISCONNECT & CONNECT
DIT	DITCH EASEMENT
DR	DRAINAGE EASEMENT
DRIVE	DRIVEWAY EASEMENT
EC	EROSION CONTROL
HWY	HIGHWAY EASEMENT
I&M	INSTALL & MAINTAIN EASEMENT
LAND	LANDSCAPE EASEMENT
PDF	PROJECT DEMARCATION FENCE
R&RES	REMOVE & RESET
R&REP	REMOVE & REPLACE
R.T.& I.	RIGHT, TITLE, AND INTEREST
SR	SLOPE RIGHT
UE	UTILITY EASEMENT
(P)	PERMANENT EASEMENT
(T)	TEMPORARY EASEMENT
■	BNDNS BOUND SET
▣	BNDNS BOUND TO BE SET
◎	IPNF IRON PIN FOUND
●	IPNS IRON PIN TO BE SET
⊠	CALC EXISTING ROW POINT
○	PROW PROPOSED ROW POINT
[LENGTH]	LENGTH CARRIED ON NEXT SHEET

**COMMON TOPOGRAPHIC POINT SYMBOLS**

POINT CODE	DESCRIPTION
⊕	APL BOUND APPARENT LOCATION
◻	BM BENCHMARK
◻	BND BOUND
⊞	CB CATCH BASIN
⊞	COMB COMBINATION POLE
⊞	DITHR DROP INLET THROATED DNC
⊞	EL ELECTRIC POWER POLE
◦	FPOLE FLAGPOLE
○	GASFIL GAS FILLER
○	GP GUIDE POST
×	GSO GAS SHUT OFF
◦	GUY GUY POLE
◦	GUYW GUY WIRE
×	GV GATE VALVE
⊞	H TREE HARDWOOD
△	HCTRL CONTROL HORIZONTAL
△	HVCTRL CONTROL HORIZ. & VERTICAL
◇	HYD HYDRANT
◦	IP IRON PIN
◦	IPIPE IRON PIPE
⊞	LI LIGHT - STREET OR YARD
⊞	MB MAILBOX
○	MH MANHOLE (MH)
◻	MM MILE MARKER
◻	PM PARKING METER
◻	PMK PROJECT MARKER
◦	POST POST STONE/WOOD
⊞	RRSIG RAILROAD SIGNAL
⊞	RRSL RAILROAD SWITCH LEVER
⊞	S TREE SOFTWOOD
⊞	SAT SATELLITE DISH
⊞	SHRUB SHRUB
⊞	SIGN SIGN
⊞	STUMP STUMP
⊞	TEL TELEPHONE POLE
◦	TIE TIE
⊞	TSIGN SIGN W/DOUBLE POST
⊞	VCTRL CONTROL VERTICAL
◦	WELL WELL
×	WSO WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

**PROPOSED GEOMETRY CODES**

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

**UTILITY SYMBOLGY**

**UNDERGROUND UTILITIES**

— UGU —	UTILITY (GENERIC-UNKNOWN)
— UT —	TELEPHONE
— UE —	ELECTRIC
— UC —	CABLE (TV)
— UEC —	ELECTRIC+CABLE
— UET —	ELECTRIC+TELEPHONE
— UCT —	CABLE+TELEPHONE
— UECT —	ELECTRIC+CABLE+TELEPHONE
— G —	GAS LINE
— W —	WATER LINE
— S —	SANITARY SEWER (SEPTIC)

**ABOVE GROUND UTILITIES (AERIAL)**

— AGU —	UTILITY (GENERIC-UNKNOWN)
— T —	TELEPHONE
— E —	ELECTRIC
— C —	CABLE (TV)
— EC —	ELECTRIC+CABLE
— ET —	ELECTRIC+TELEPHONE
— AER E&T —	ELECTRIC+TELEPHONE
— CT —	CABLE+TELEPHONE
— ECT —	ELECTRIC+CABLE+TELEPHONE
—	UTILITY POLE GUY WIRE

**PROJECT CONSTRUCTION SYMBOLGY**

**PROJECT DESIGN & LAYOUT SYMBOLGY**

— — — — CZ — — — —	CLEAR ZONE
—————	PLAN LAYOUT MATCHLINE

**PROJECT CONSTRUCTION FEATURES**

△ — △ — △ — △	TOP OF CUT SLOPE
○ — ○ — ○ — ○	TOE OF FILL SLOPE
⊞ ⊞ ⊞ ⊞ ⊞	STONE FILL
-----	BOTTOM OF DITCH
-----	CULVERT PROPOSED
-----	STRUCTURE SUBSURFACE
PDF — PDF —	PROJECT DEMARCATION FENCE
BF — — — — BF — — — —	BARRIER FENCE
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	TREE PROTECTION ZONE (TPZ)
//// //// //// ////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLGY**

**BOUNDARY LINES**

—————	TOWN BOUNDARY LINE
—————	COUNTY BOUNDARY LINE
—————	STATE BOUNDARY LINE
——— / ———	PROPOSED STATE R.O.W. (LIMITED ACCESS)
——— / ———	PROPOSED STATE R.O.W.
——— / ———	STATE ROW (LIMITED ACCESS)
——— / ———	STATE ROW
——— / ———	TOWN ROW
-----	PERMANENT EASEMENT LINE (P)
-----	TEMPORARY EASEMENT LINE (T)
-----	SURVEY LINE
— P — P —	PROPERTY LINE (P/L)
— L — L —	PROPERTY LINE (P/L)
△ — SR — SR — SR —	SLOPE RIGHTS
6f — 6f —	6F PROPERTY BOUNDARY
4f — 4f —	4F PROPERTY BOUNDARY
HAZ — HAZ —	HAZARDOUS WASTE

**EPSC LAYOUT PLAN SYMBOLGY**

**EPSC MEASURES**

ONNOONNOONNO	FILTER CURTAIN
— — — — —	SILT FENCE
— X — X — X — X	SILT FENCE WOVEN WIRE
— — — — —	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
⊞	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

**ENVIRONMENTAL RESOURCES**

—————	WETLAND BOUNDARY
-----	RIPARIAN BUFFER ZONE
-----	WETLAND BUFFER ZONE
-----	SOIL TYPE BOUNDARY
— T&E —	THREATENED & ENDANGERED SPECIES
HAZ — HAZ —	HAZARDOUS WASTE AREA
— AG —	AGRICULTURAL LAND
— HABITAT —	FISH & WILDLIFE HABITAT
— FLOOD PLAIN —	FLOOD PLAIN
— OHW —	ORDINARY HIGH WATER (OHW)
— — — — —	STORM WATER
-----	USDA FOREST SERVICE LANDS
-----	WILDLIFE HABITAT SUIT/CONN

**ARCHEOLOGICAL & HISTORIC**

— ARCH —	ARCHEOLOGICAL BOUNDARY
— HISTORIC DIST —	HISTORIC DISTRICT BOUNDARY
— HISTORIC —	HISTORIC AREA
Ⓜ	HISTORIC STRUCTURE

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
-----	FOUNDATION
x — x — x — x	FENCE (EXISTING)
□ — □ — □ — □	FENCE WOOD POST
○ — ○ — ○ — ○	FENCE STEEL POST
~~~~~	GARDEN
○ — ○ — ○ — ○	ROAD GUARDRAIL
	RAILROAD TRACKS
-----	CULVERT (EXISTING)
-----	STONE WALL
-----	WALL
~~~~~	WOOD LINE
~~~~~	BRUSH LINE
~~~~~	HEDGE
-----	BODY OF WATER EDGE
-----	LEDGE EXPOSED

PROJECT NAME: JERICHO  
PROJECT NUMBER: BF 0209(10)

FILE NAME: sl2J634legend.dgn PLOT DATE: 25-JUL-2024  
PROJECT LEADER: R.YOUNG DRAWN BY: A.MANN  
DESIGNED BY: F.BARROWS CHECKED BY: F.BARROWS  
CONVENTIONAL SYMBOLGY LEGEND SHEET 8 OF 47



PRIMARY CONTROL

HVCTRL #1  
 NORTH = 710853.6320  
 EAST = 1515771.3680  
 ELEV. = 668.6900

TO REACH FROM THE INTERSECTION OF ROUTE 2, JERICO ROAD, AND BRIDGE ST IN RICHMOND VILLAGE, GO NORTHERLY ALONG JERICO ROAD (LATER BECOMING BROWNS TRACE ROAD) FOR 3.55 MI (5.71 KM) TO THE INTERSECTION OF JERICO HIGHWAY DEPARTMENT ROAD ON THE LEFT. TURN LEFT AND GO WEST ALONG JERICO HIGHWAY DEPARTMENT ROAD FOR 0.2 MI (0.3 KM) TO THE ENTRANCE DRIVEWAY TO THE JERICO HIGHWAY DEPARTMENT GARAGE AND THE SITE OF THE MARK ON THE LEFT IN A LAWN. IT IS 10.1 METERS SOUTHWEST CENTER LINE ROAD TO JERICO HIGHWAY DEPARTMENT. 12.8 METERS SOUTHEAST CENTERLINE OF GRAVEL DRIVE. 17.4 METERS SOUTH SOUTH WEST OF POLE #30/105X4.7.8 METERS NORTH NORTHWEST OF A SPRUCE TREE.

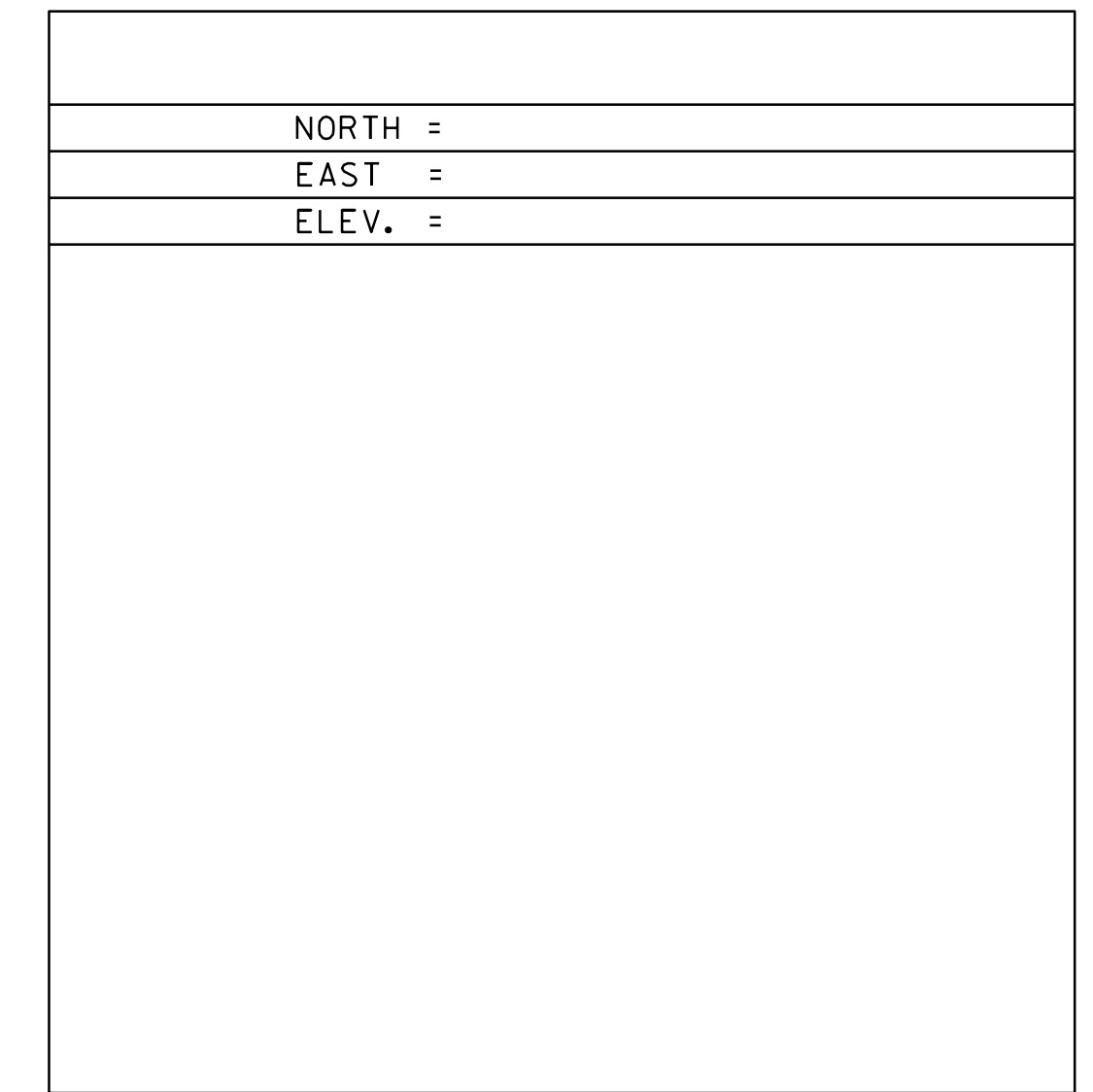
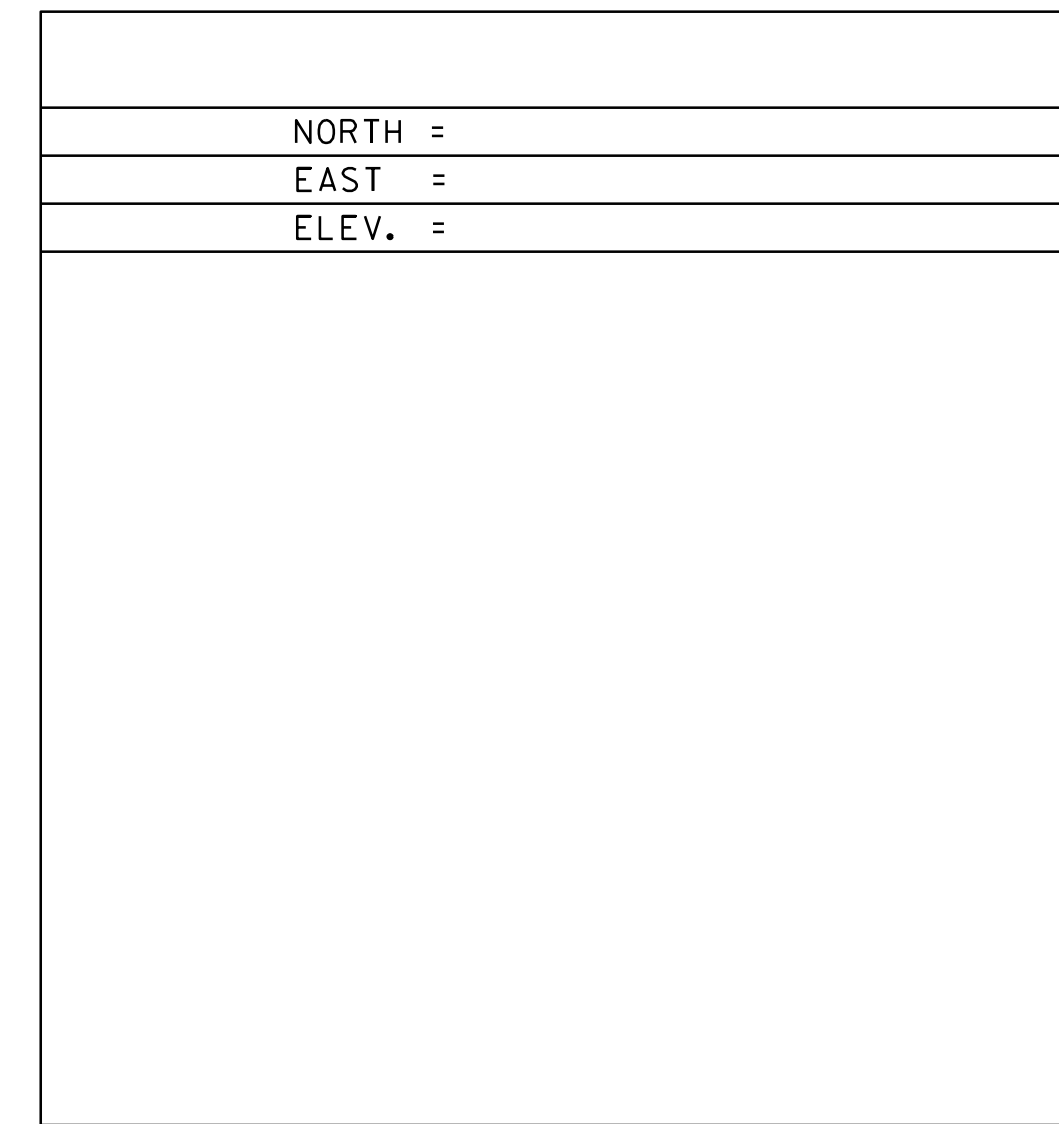
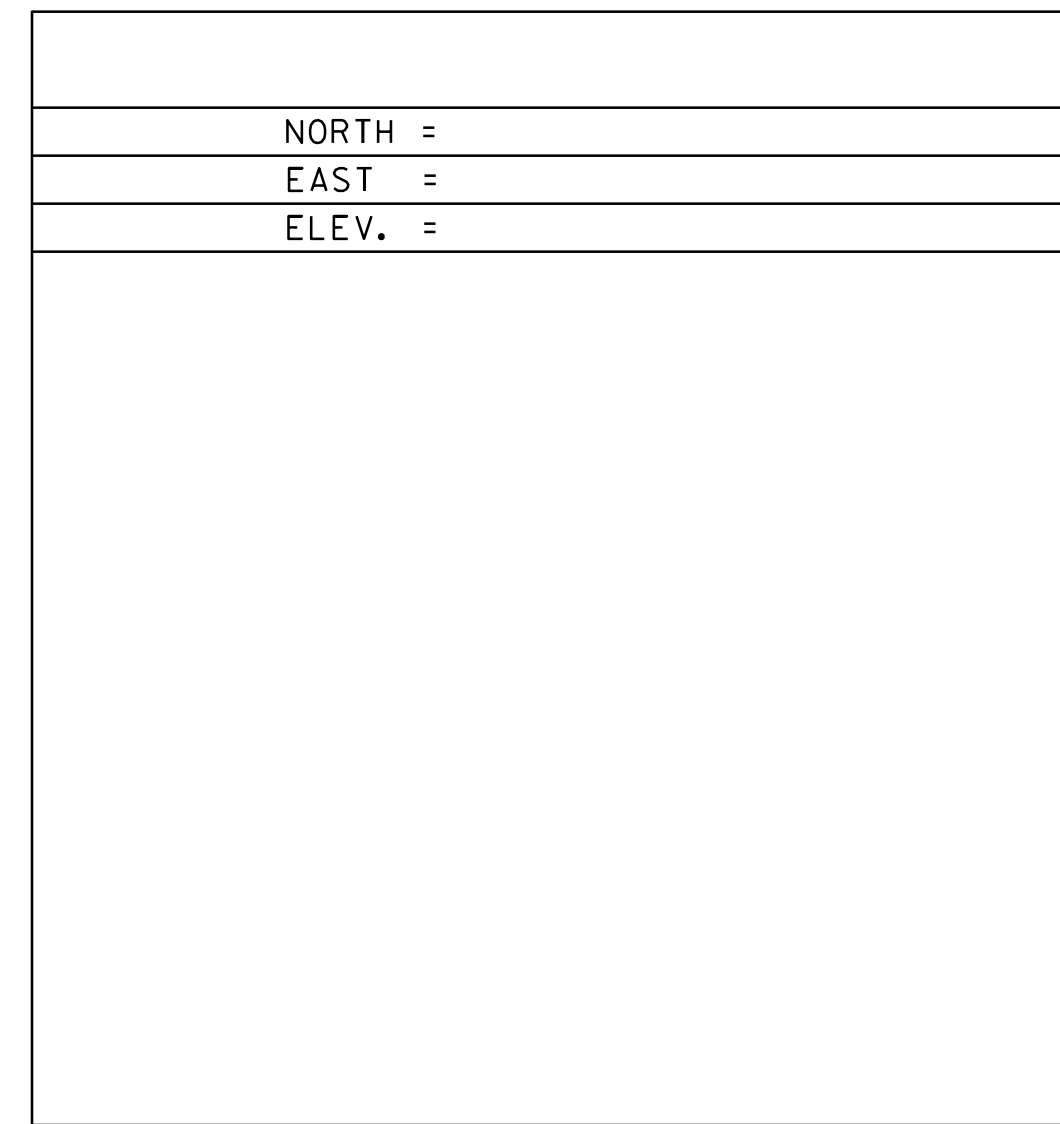
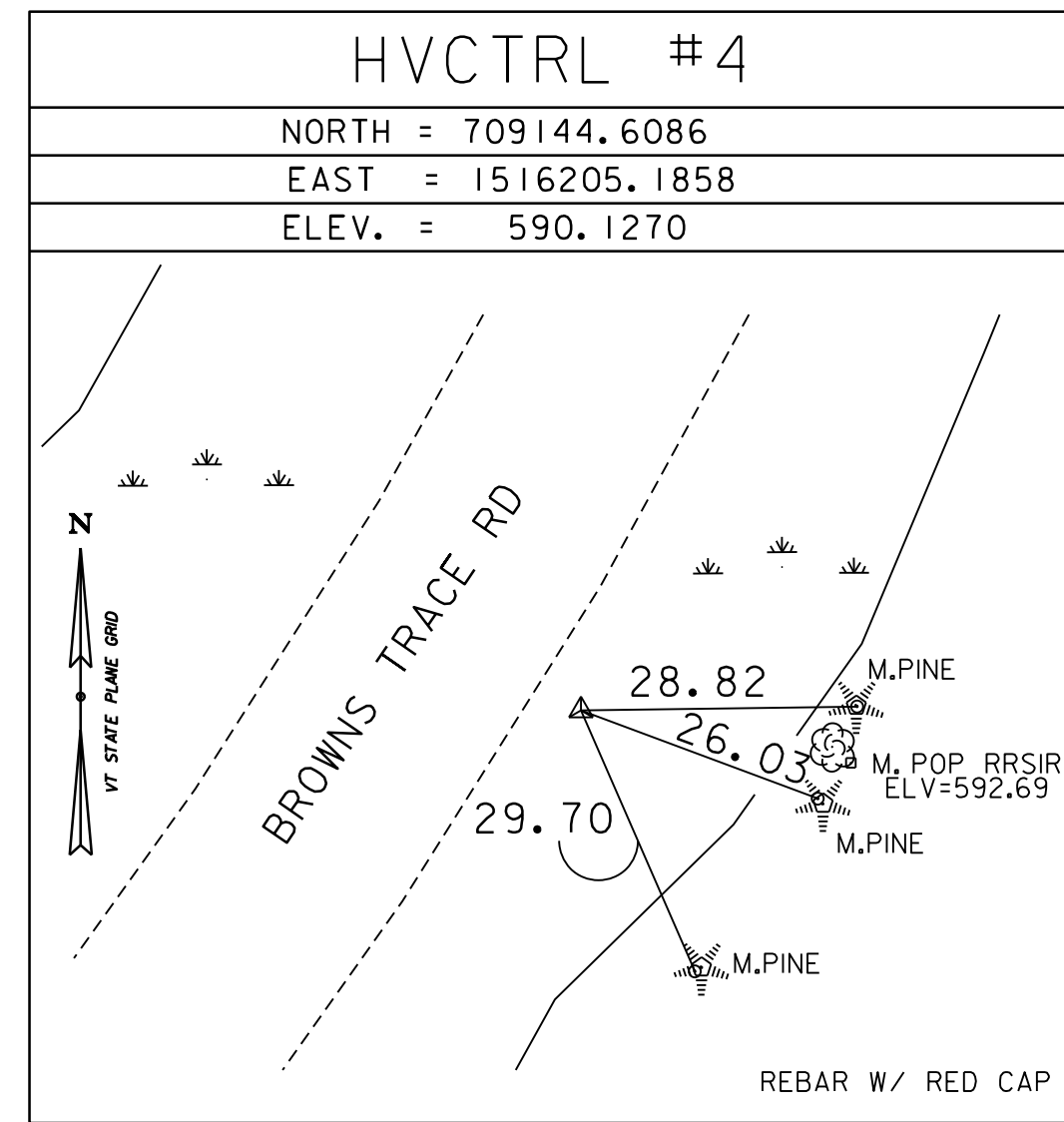
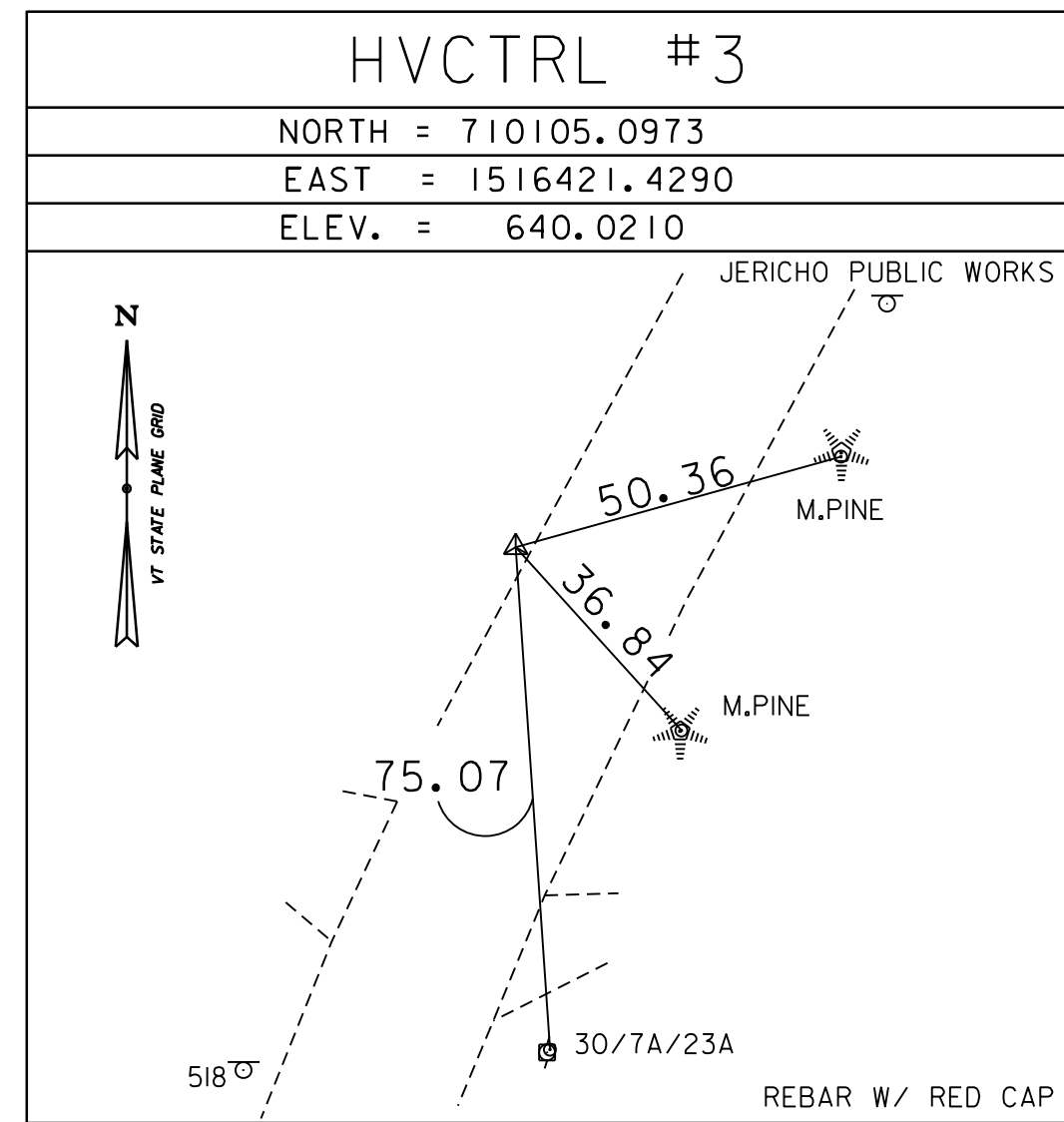
HVCTRL #2  
 NORTH = 710600.1630  
 EAST = 1516660.5390  
 ELEV. = 640.6600

TO REACH FROM THE INTERSECTION OF ROUTE 2, JERICO ROAD, AND BRIDGE ST IN RICHMOND VILLAGE, GO NORTHERLY ALONG JERICO ROAD (LATER BECOMING BROWNS TRACE ROAD) FOR 3.55 MI (5.71 KM) TO THE INTERSECTION OF JERICO HIGHWAY DEPARTMENT ROAD ON THE LEFT AND THE SITE OF THE MARK ON THE LEFT ABOUT 100 FT (30.5 M) NORTH OF THE INTERSECTION.

THE MARK IS A .75 INCH (19 MM) REBAR WITH RED PLASTIC CAP SET 0.2 FT (6 CM) BELOW GROUND SURFACE.

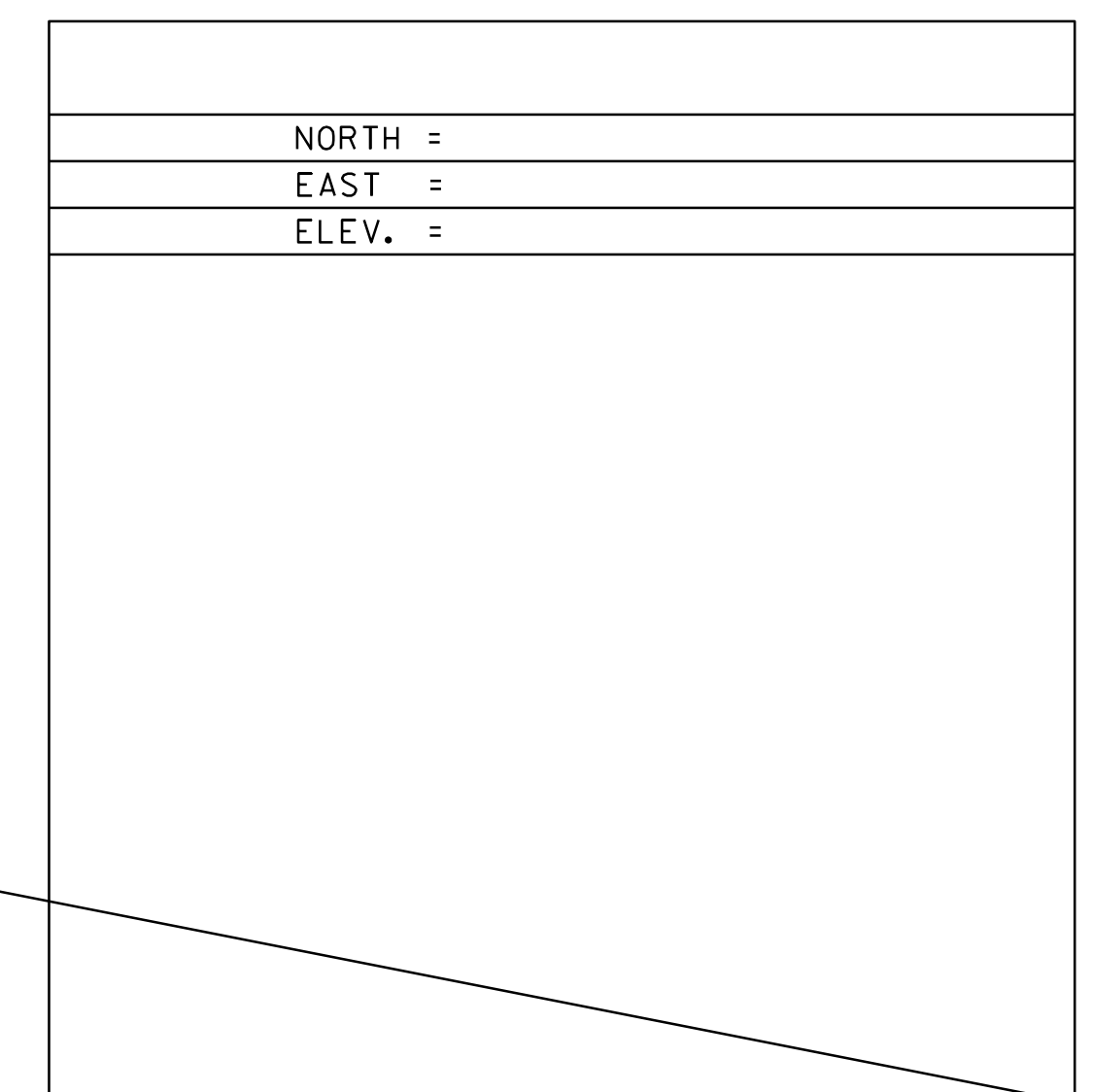
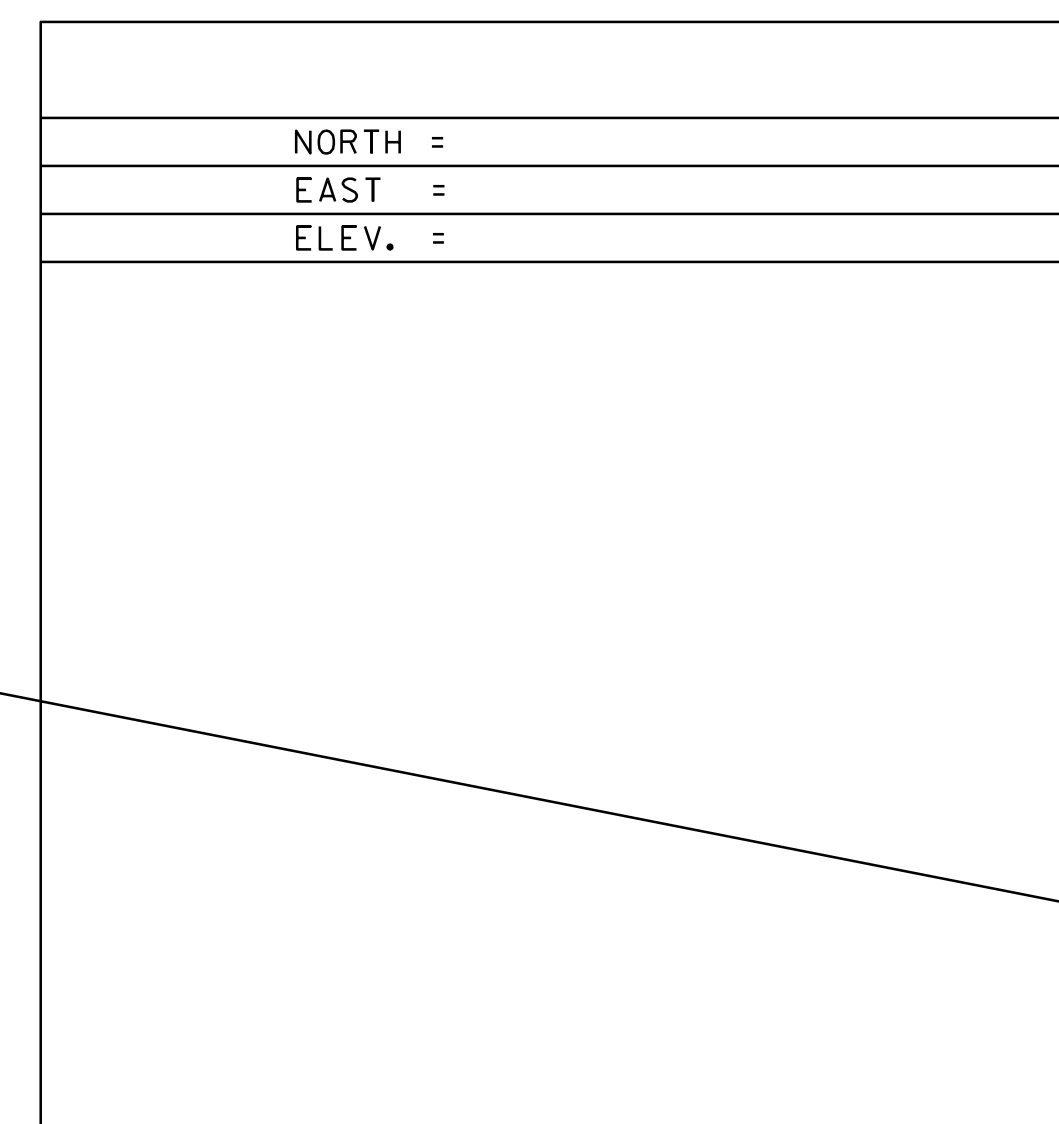
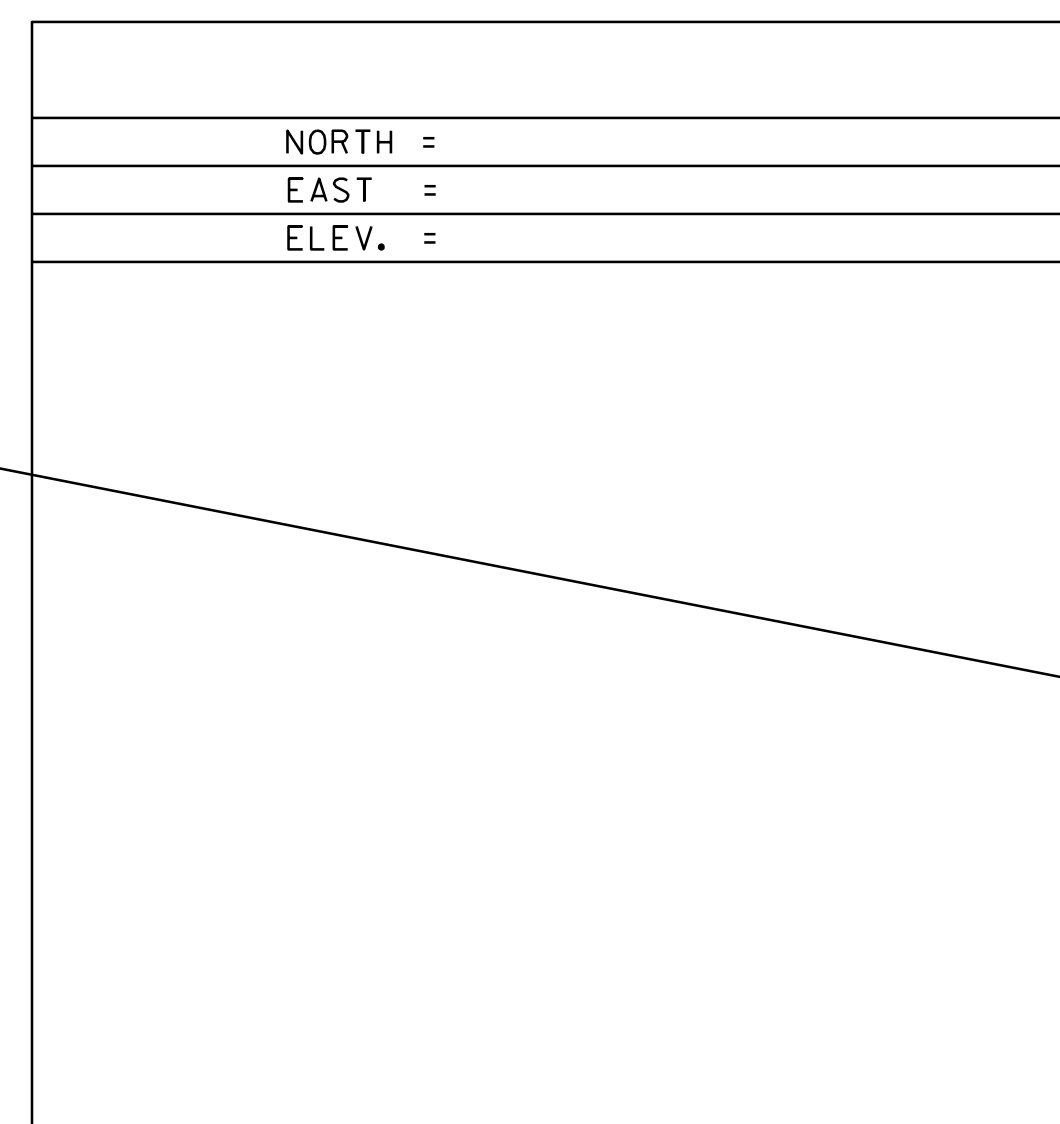
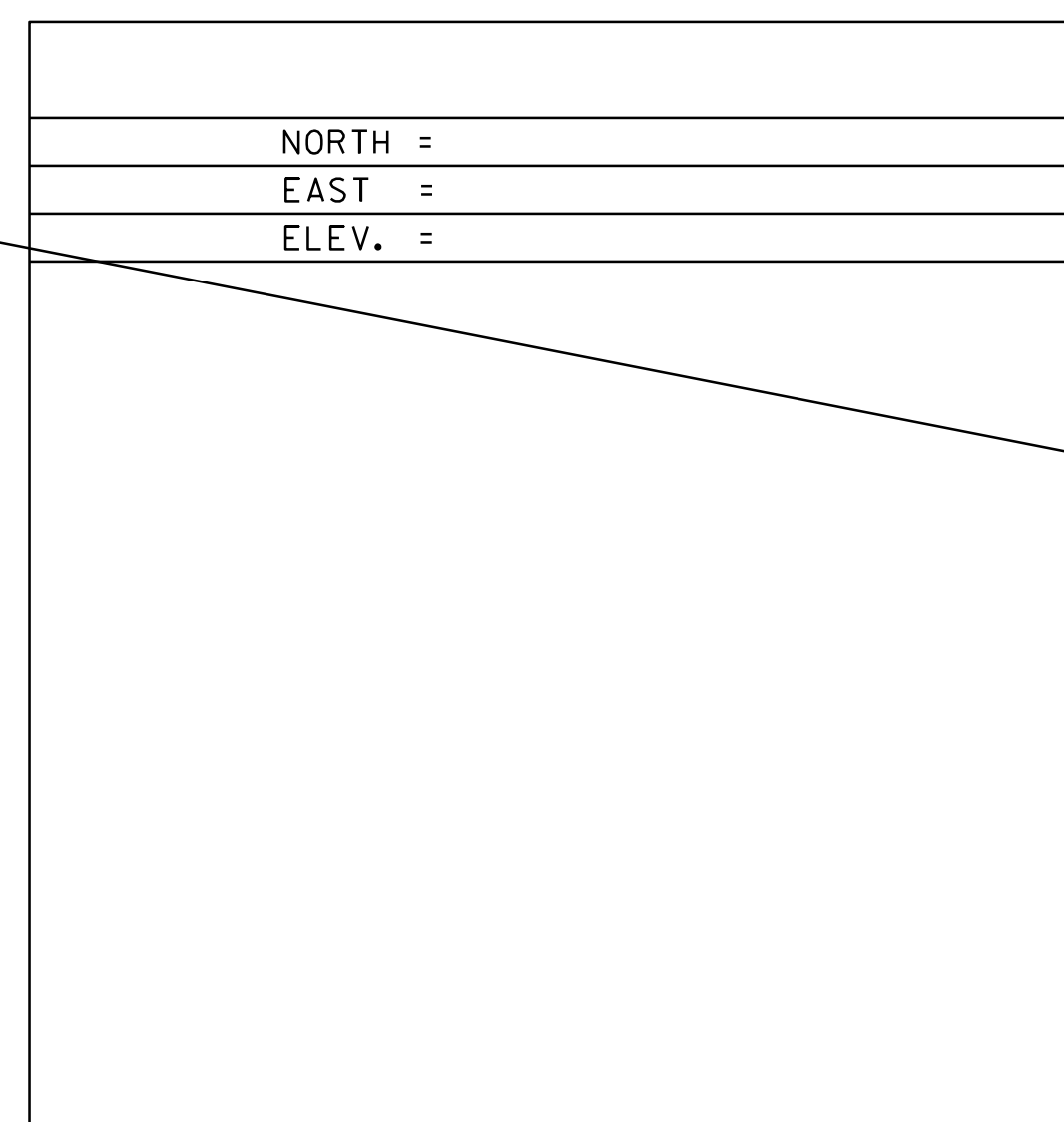
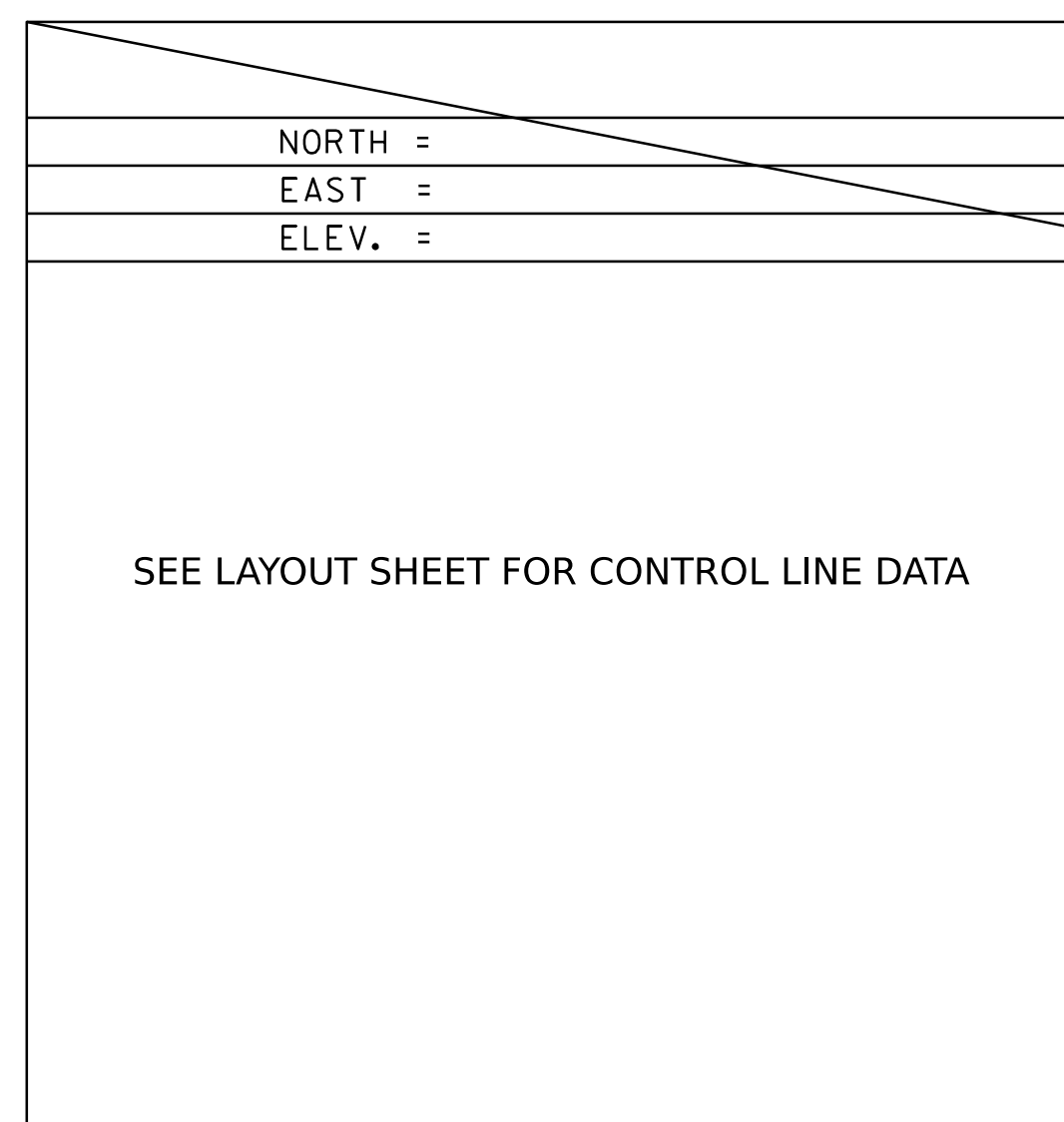
IT IS 4.8 METERS NORTHWEST OF CENTERLINE OF BROWNS TRACE ROAD. 27.8 NORTHEAST CENTERLINE JERICO HIGHWAY DEPARTMENT ROAD. 14.0 SOUTH OF POLE #30/105.

SECONDARY CONTROL



\*TRAVERSE COMPLETED ON 5/17/2021 BY R.GILMAN, B. HERRING & H.MCGOWAN

ALIGNMENT TIES

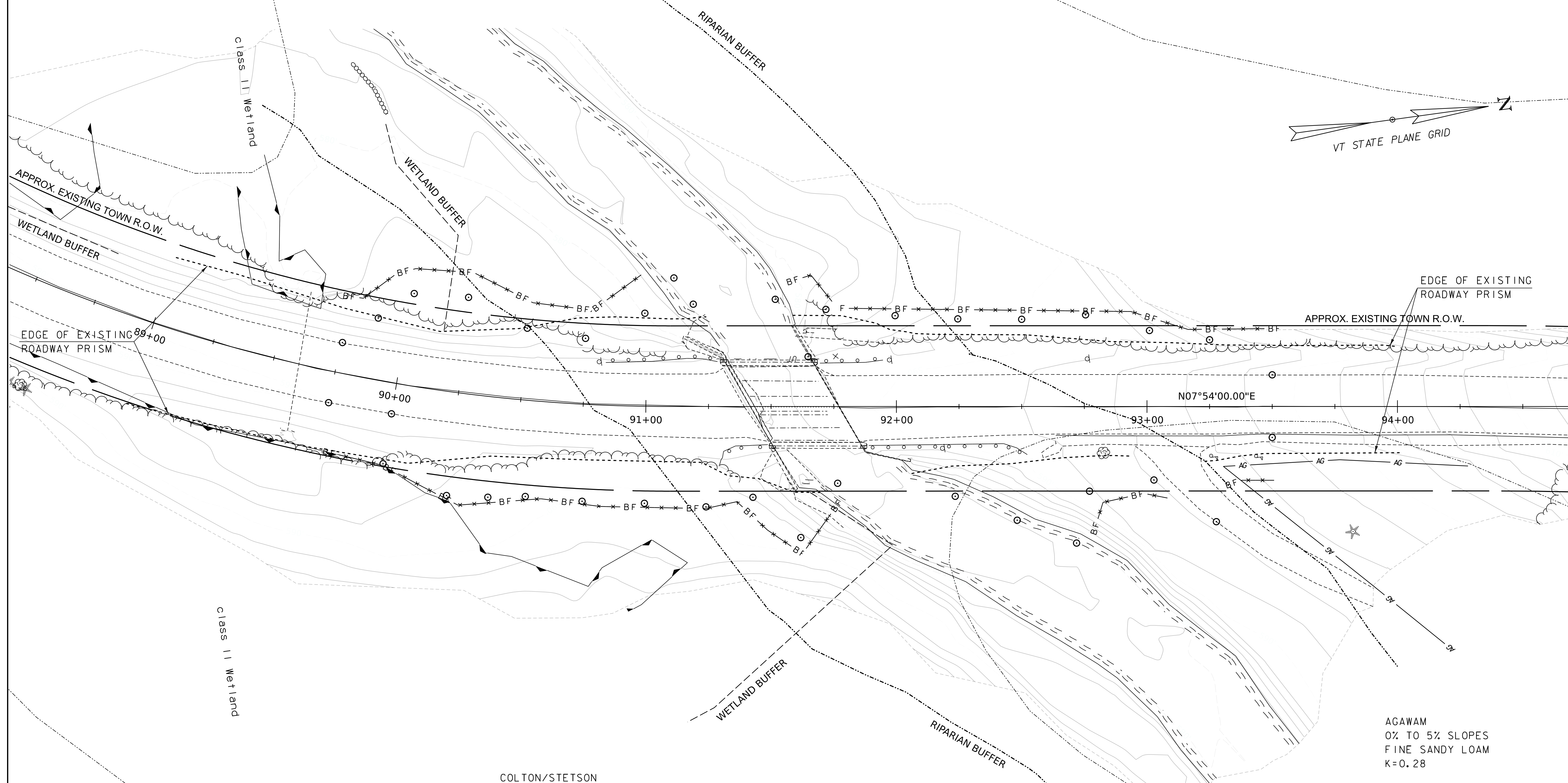
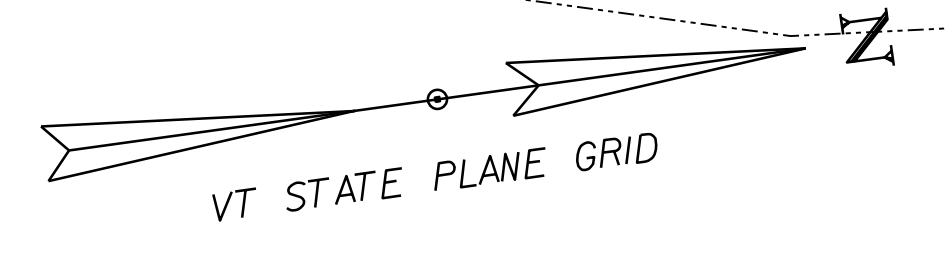


DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD83 (2011)
ADJUSTMENT	COMPASS

PROJECT NAME: JERICO	
PROJECT NUMBER: BF 0209 (10)	
FILE NAME: X12J634T.DGN	PLOT DATE: 25-JUL-2024
PROJECT LEADER: L.STONE	DRAWN BY: H.MCGOWAN
DESIGNED BY: VTRANS	CHECKED BY: R. GILMAN
TIE SHEET	SHEET 9 OF 47

DUANE/DEERFIELD  
0% TO 5% SLOPES  
K=0.17/0.17

COLTON  
12% TO 20% SLOPES  
GRAVELLY LOAMY SAND  
K=0.17



class II Wetland

class II Wetland

COLTON/STETSON  
30% TO 60% SLOPES  
K=0.17/0.17

AGAWAM  
0% TO 5% SLOPES  
FINE SANDY LOAM  
K=0.28

MARLOW LOW FINE SANDY LOAM  
5% TO 20% SLOPES  
VERY STONY  
K=0.24

SCALE 1" = 20'-0"  
20 0 20

PROJECT NAME: JERICO		PLOT DATE: 25-JUL-2024	
PROJECT NUMBER: BF 0209(10)		DRAWN BY: G.ROKES	
FILE NAME: sl2j634epsc.dgn	PROJECT LEADER: R.YOUNG	DESIGNED BY: F.BARROWS	CHECKED BY: F.BARROWS
EXISTING CONDITIONS		SHEET 10 OF 47	

COARSE MILLING, BITUMINOUS PAVEMENT  
 STA. 89+75.00 TO 90+25.00  
 STA. 93+00.00 TO 93+50.00

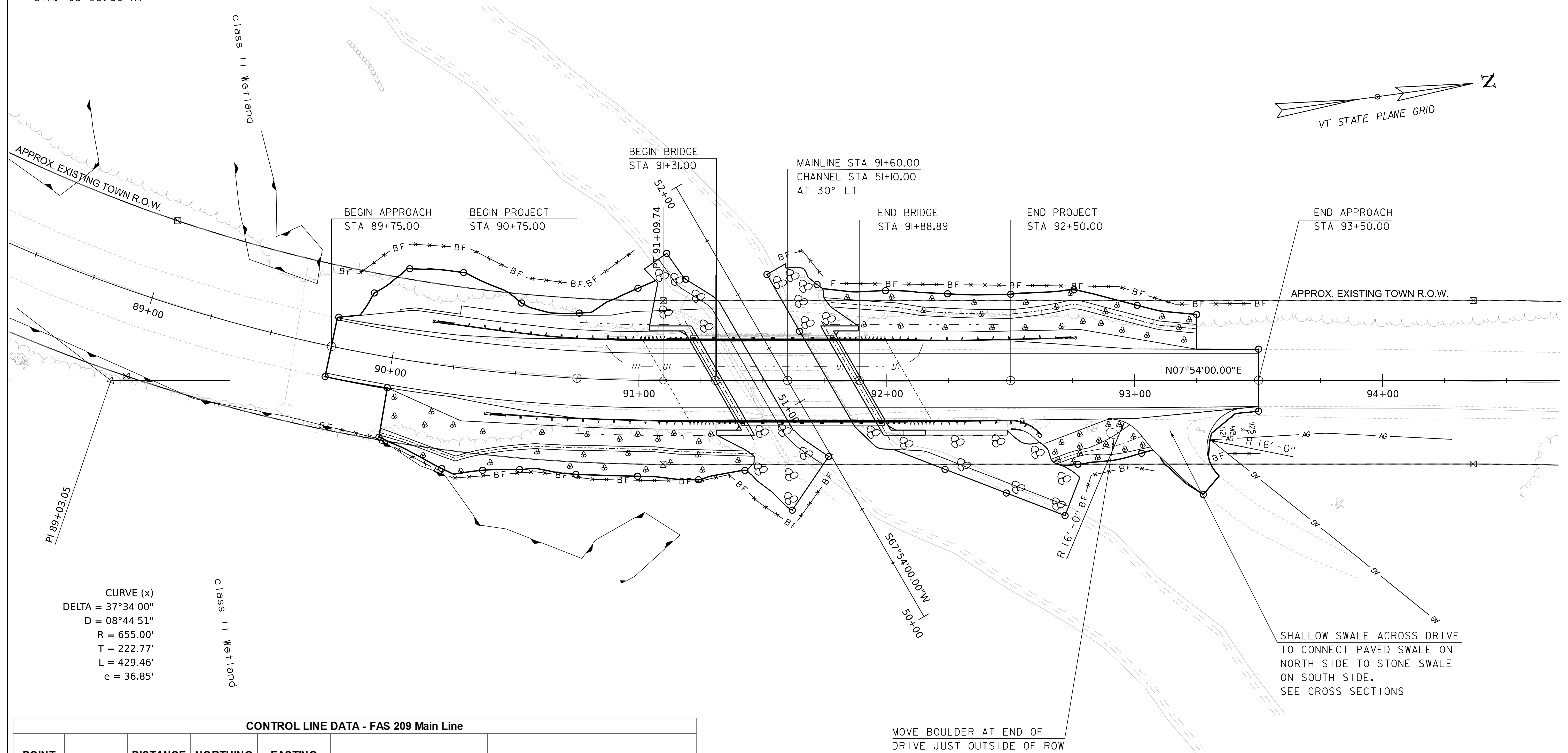
STONE LINED DITCH  
 STA. 90+00 TO 91+40 RT  
 STA. 91+80 TO 92+73 LT

RETAINING WALL, CONCRETE  
 STA. 92+06.60 TO 92+45.00 RT

CONSTRUCT DRIVEWAY APRON  
 W/ 2" PAVEMENT, 12" SUBBASE  
 STA. 93+00.00 - 93+25.00 RT

STONE LINED SWALE  
 STA. 92+63 TO 92+99 RT

REMOVE AND RESET MAILBOX,  
 SINGLE SUPPORT  
 STA. 93+25.60 RT



CONTROL LINE DATA - FAS 209 Main Line

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
	N45.467°E	80.285'	708965.959	1516029.725		8600					
	N7.900°E	683.120'	709178.497	1516245.754	8680.285	8903.052	9109.743	37.567°	655.000'	429.459'	222.768'
			709855.134	1516339.645		9570.096					

PROJECT NAME: JERICHO  
 PROJECT NUMBER: BF 0209(10)  
 FILE NAME: STR/sl2j634bdr.dgn  
 PROJECT LEADER: R.YOUNG  
 DESIGNED BY: F.BARROWS  
 PLAN LAYOUT  
 PLOT DATE: 25-JUL-2024  
 DRAWN BY: G.ROKES  
 CHECKED BY: F.BARROWS  
 SHEET II OF 47

SCALE 1" = 20'-0"  
 20 0 20

REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 90+80.00 - 91+20.00 LT  
 STA. 90+80.00 - 91+20.00 RT  
 STA. 90+80.00 - 91+20.00 LT  
 STA. 90+80.00 - 91+20.00 RT

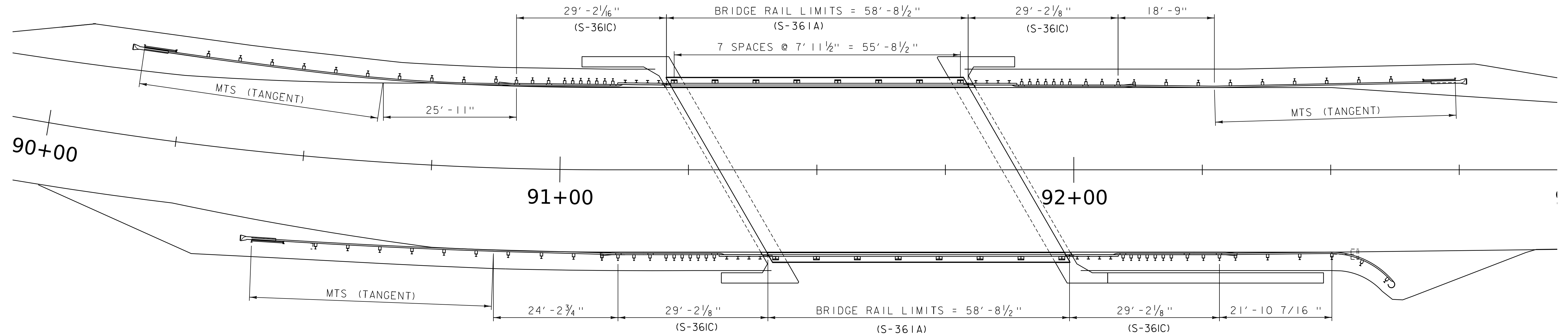
ANCHOR FOR STEEL BEAM GUARDRAIL  
 STA. 92+55.46 RT  
 BRIDGE RAILING, GALVANIZED 3  
 RAIL BOX BEAM  
 STA. 91+20.72 TO 91+79.43 LT  
 STA. 91+40.45 TO 91+99.17 RT

GUARDRAIL APPROACH SECTION,  
 GALVANIZED 3 RAIL BOX BEAM  
 STA. 90+91.55 TO 91+20.72 LT  
 STA. 91+11.28 TO 91+40.45 RT  
 STA. 91+79.43 TO 92+08.61 LT  
 STA. 91+99.17 TO 92+28.34 RT

MANUFACTURED TERMINAL SECTION,  
 TANGENT  
 STA. 90+16.41 TO 90+65.49 LT  
 STA. 90+40.18 TO 90+87.05 RT  
 STA. 92+28.34 TO 92+75.00 LT

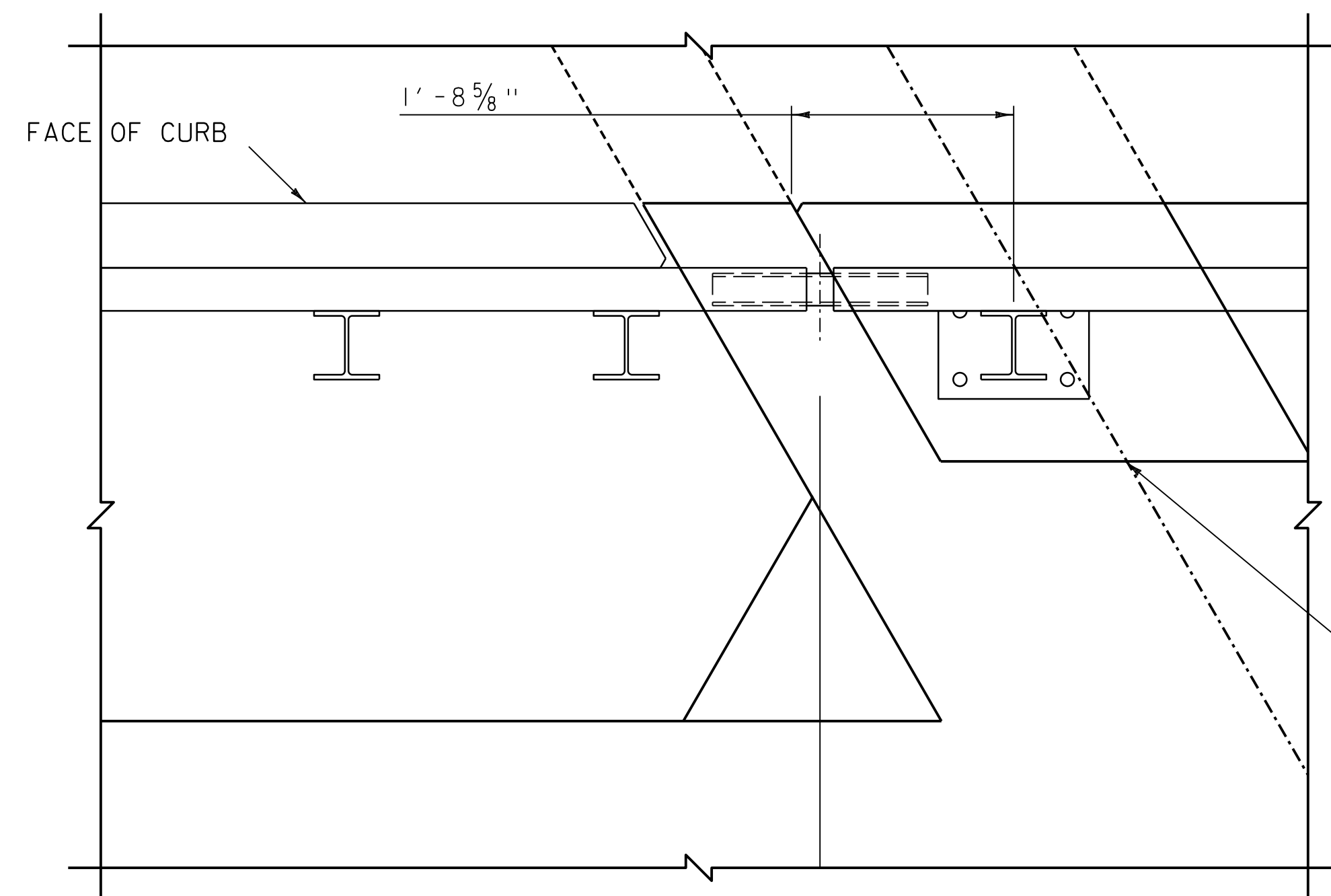
DELINEATOR WITH STEEL POST  
 STA. 90+10 (GREEN) LT  
 STA. 90+35 (BLUE) RT  
 STA. 92+65 (GREEN) RT  
 STA. 92+80 (BLUE) LT

HD, STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 90+65.49 TO 90+91.55 LT  
 STA. 90+87.05 TO 91+11.28 RT  
 STA. 92+08.61 TO 92+27.35 LT  
 STA. 92+28.34 TO 92+50.21 RT



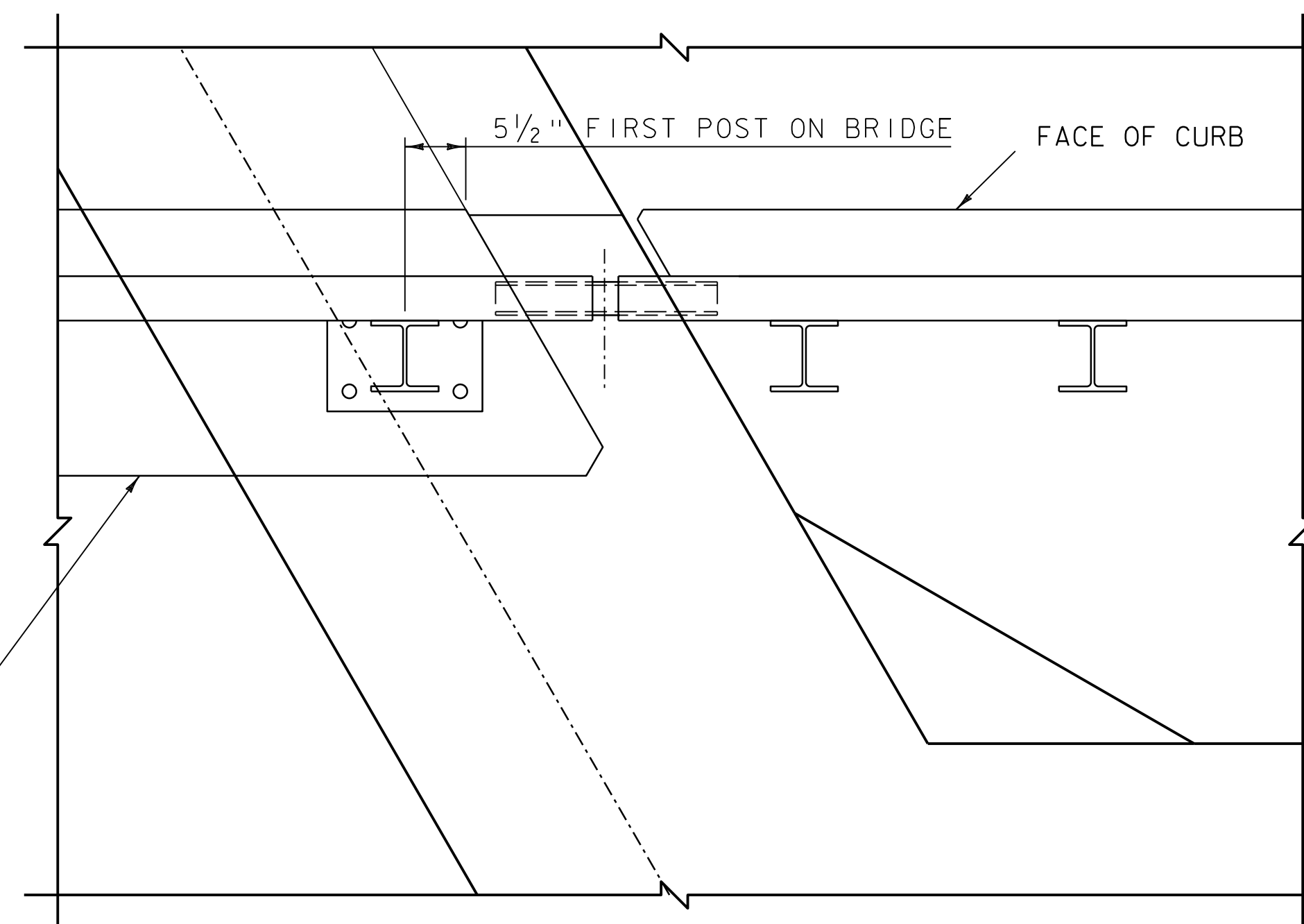
**GUARDRAIL LAYOUT**

SCALE 1" = 10'-0"



**ACUTE CORNER BRIDGE END**

SCALE 1" = 2'-0"



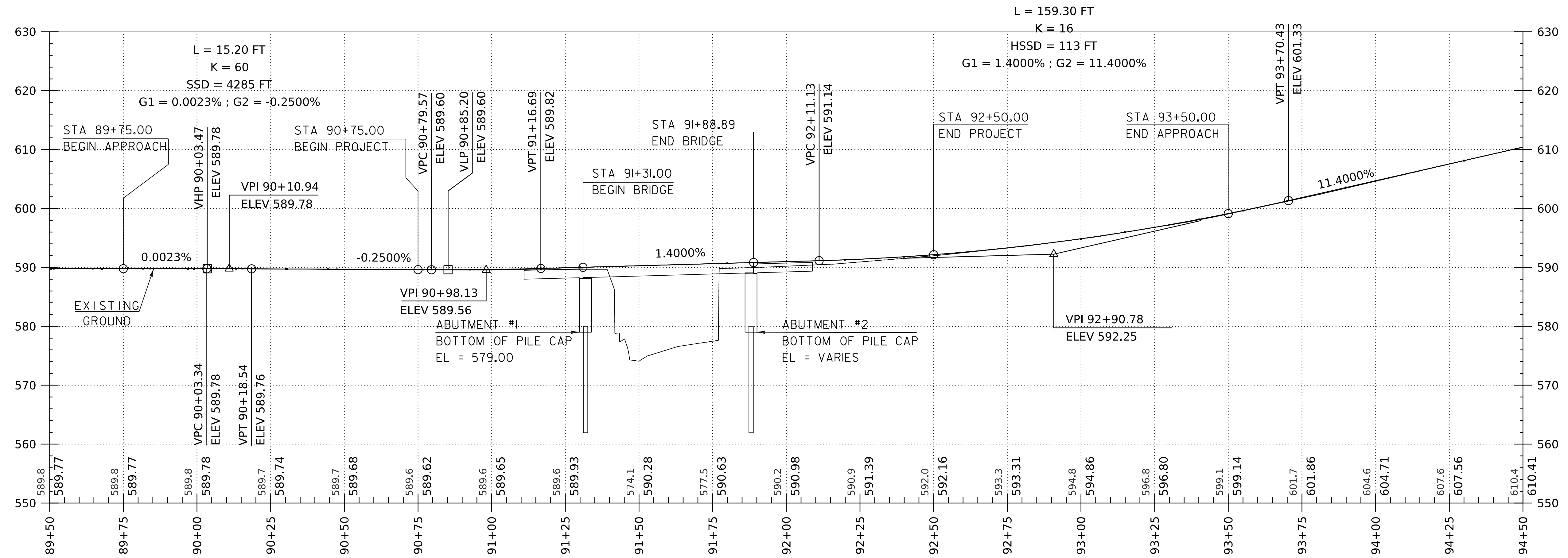
**OBTUSE CORNER BRIDGE END**

SCALE 1" = 2'-0"

PROJECT NAME: JERICO  
 PROJECT NUMBER: BF 0209(10)

FILE NAME: sl2j634Grail.dgn  
 PROJECT LEADER: R. YOUNG  
 DESIGNED BY: A. MANN  
 GUARDRAIL LAYOUT

PLOT DATE: 25-JUL-2024  
 DRAWN BY: F. BARROWS  
 CHECKED BY: A. MANN  
 SHEET 12 OF 47



### FAS ROUTE 209 PROFILE

HORIZONTAL SCALE 1" = 20'-0"  
 VERTICAL SCALE 1" = 10'-0"

**NOTE:**

ELEVATIONS SHOWN TO THE NEAREST TENTH ARE  
 EXISTING GROUND ALONG PROPOSED CENTER LINE

ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE  
 FINISHED GRADES ALONG PROPOSED CENTER LINE

PROJECT NAME: JERICHO  
 PROJECT NUMBER: BF 0209(10)

FILE NAME: sl2j634pro.dgn  
 PROJECT LEADER: R. YOUNG  
 DESIGNED BY: G. ROKES  
 PROFILE

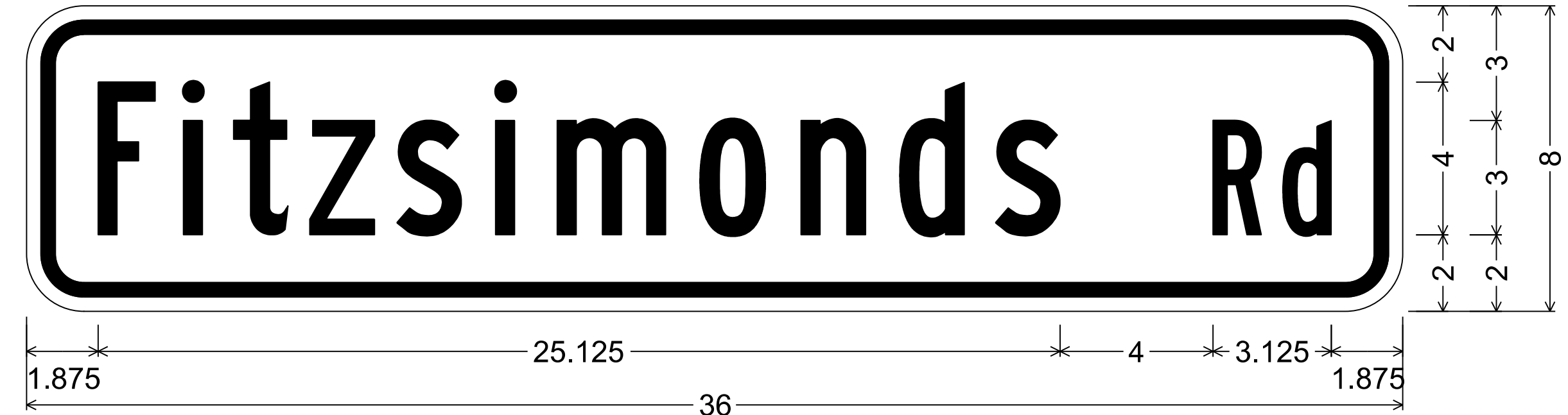
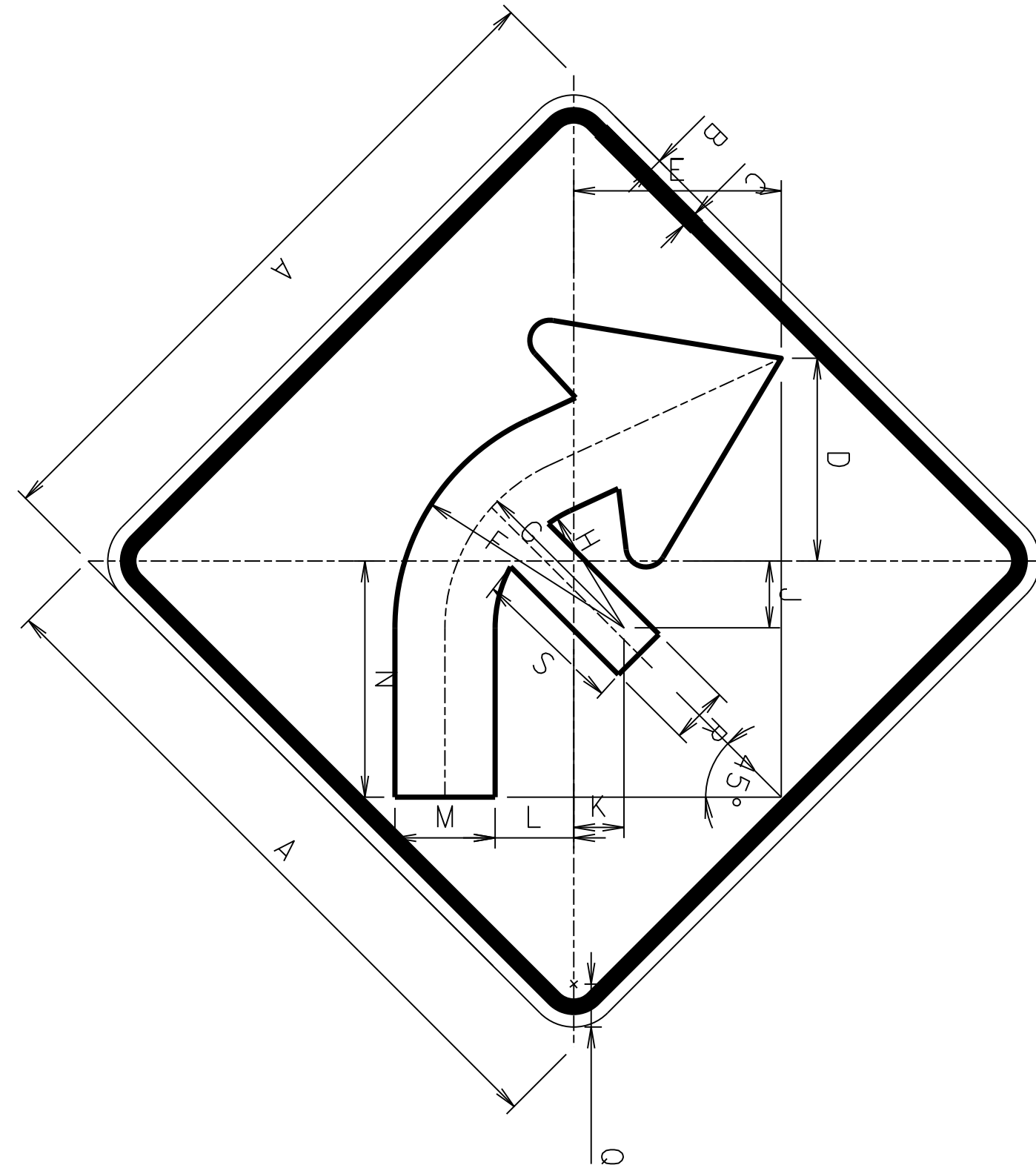
PLOT DATE: 25-JUL-2024  
 DRAWN BY: G. ROKES  
 CHECKED BY: F. BARROWS  
 SHEET 13 OF 47

# TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST. POST RETAIN	NO. OF POSTS	NEW SIGN POSTS														REMARKS	SIGN DETAIL			
		E	A	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN			SALV TIS	SQUARE STEEL (in)				TUBULAR ALUMINUM (in)			TUBULAR STEEL (in)				W-SHAPE STEEL			STD. SHEET NUMBER	DETAIL ON SHEET NUMBER	MUTCD/SHSM	
												1.75	2.0	2.5	ANCHOR	SLEEVE	FOUNDA-TION	MOD			FTG. SIZE	WEIGHT	POST SIZE						
												lb/ft	lb/ft	lb/ft				3.0	4.0	4.0				3.0					3.5
STA 91+22.82 RT STA 91+97.20 LT		2		6	10	0.42				1	8				X										VD-701	T-42			
STA 92+76.15 LT		1		30	30	6.25				1	12				X										SEE DETAIL				
STA 92+76.15 LT		1		36	8	2.00				-	-				-										SEE DETAIL				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TOTALS	SF	SF	EA.	SF		FT	EA.	LB	EA.	LB	EA.	EA.	LB
	9.04					16		12					
						28							



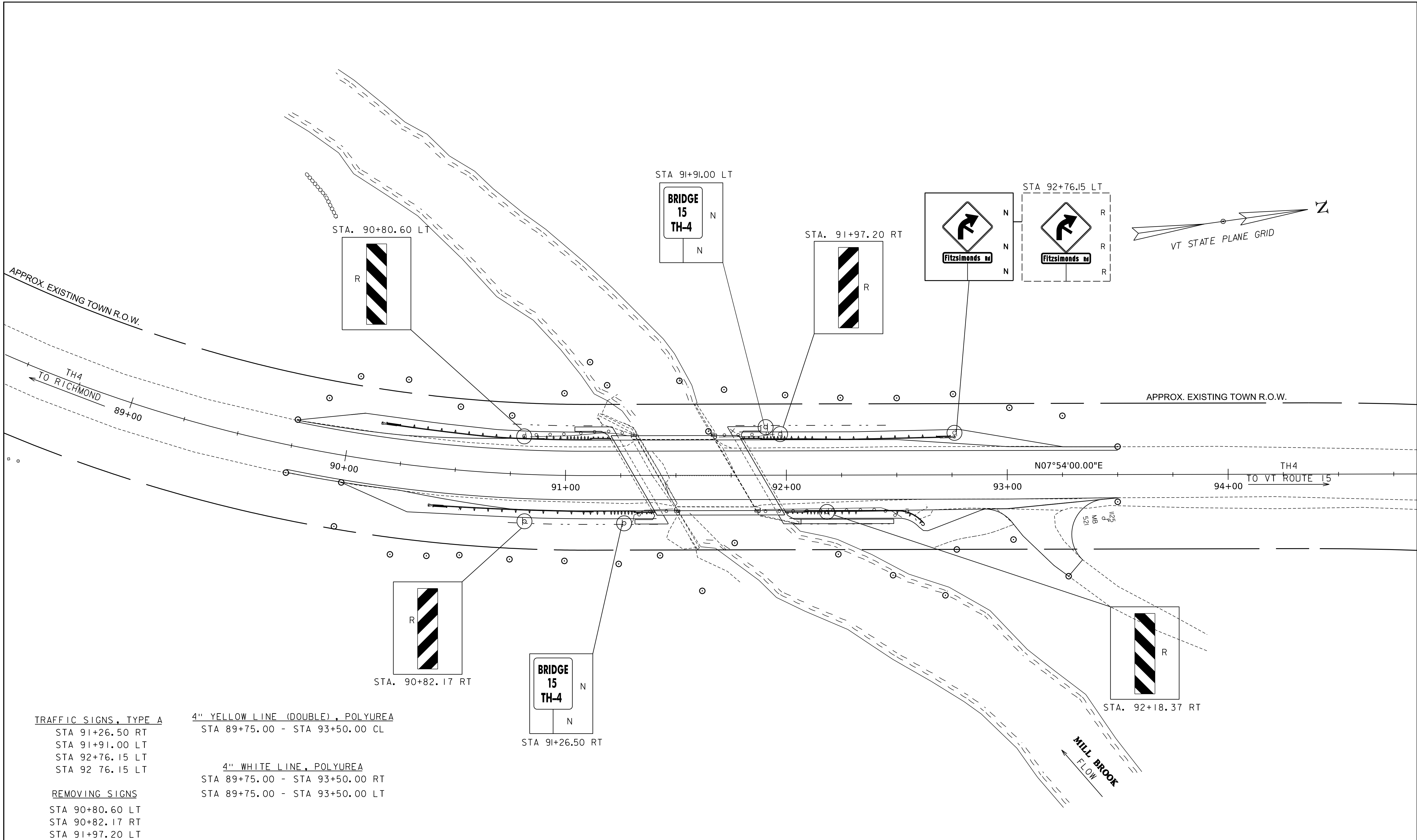
1.500" Radius, 0.375" Border, 0.375" Indent, Black on Yellow;  
"Fitzsimonds Rd", B;

A	B	C	D	E	F	G	H	J	K	L	M	N	Q
30	0.5	0.75	8.875	9.063	10	7.813	5.625	2.938	2.188	3.438	4.375	10.313	2.25

R	S
3	8

COLORS: LEGEND, BORDER - BLACK  
BACKGROUND - YELLOW (RETROREFLECTIVE)

PROJECT NAME: JERICHO	PLOT DATE: 25-JUL-2024
PROJECT NUMBER: BF 0209 (10)	DRAWN BY: A. MANN
FILE NAME: sl2j634signs.dgn	CHECKED BY: F. BARROWS
PROJECT LEADER: R. YOUNG	SHEET 14 OF 47
DESIGNED BY: A. MANN	
TRAFFIC SIGN SUMMARY	



TRAFFIC SIGNS, TYPE A

- STA 91+26.50 RT
- STA 91+91.00 LT
- STA 92+76.15 LT
- STA 92 76.15 LT

REMOVING SIGNS

- STA 90+80.60 LT
- STA 90+82.17 RT
- STA 91+97.20 LT
- STA 92+18.37 RT
- STA 92+76.15 LT

4" YELLOW LINE (DOUBLE), POLYUREA

STA 89+75.00 - STA 93+50.00 CL

4" WHITE LINE, POLYUREA

STA 89+75.00 - STA 93+50.00 RT  
 STA 89+75.00 - STA 93+50.00 LT

SIGNING LEGEND

- R = REMOVE
- R&S = REMOVE AND SALVAGE
- S = SALVAGE
- N = NEW

PROJECT NAME: JERICO	
PROJECT NUMBER: BF 0209 (10)	
FILE NAME: sl2j634signs.dgn	PLOT DATE: 25-JUL-2024
PROJECT LEADER: R. YOUNG	DRAWN BY: A. MANN
DESIGNED BY: A. MANN	CHECKED BY: F. BARROWS
SIGN LAYOUT	SHEET 15 OF 47

**SOIL CLASSIFICATION**

**AASHTO**

- A1 Gravel and Sand
- A3 Fine Sand
- A2 Silty or Clayey Gravel and Sand
- A4 Silty Soil - Low Compressibility
- A5 Silty Soil - Highly Compressible
- A6 Clayey Soil - Low Compressibility
- A7 Clayey Soil - Highly Compressible

**ROCK QUALITY DESIGNATION**

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

**SHEAR STRENGTH**

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

**CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY**

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

**COMMONLY USED SYMBOLS**

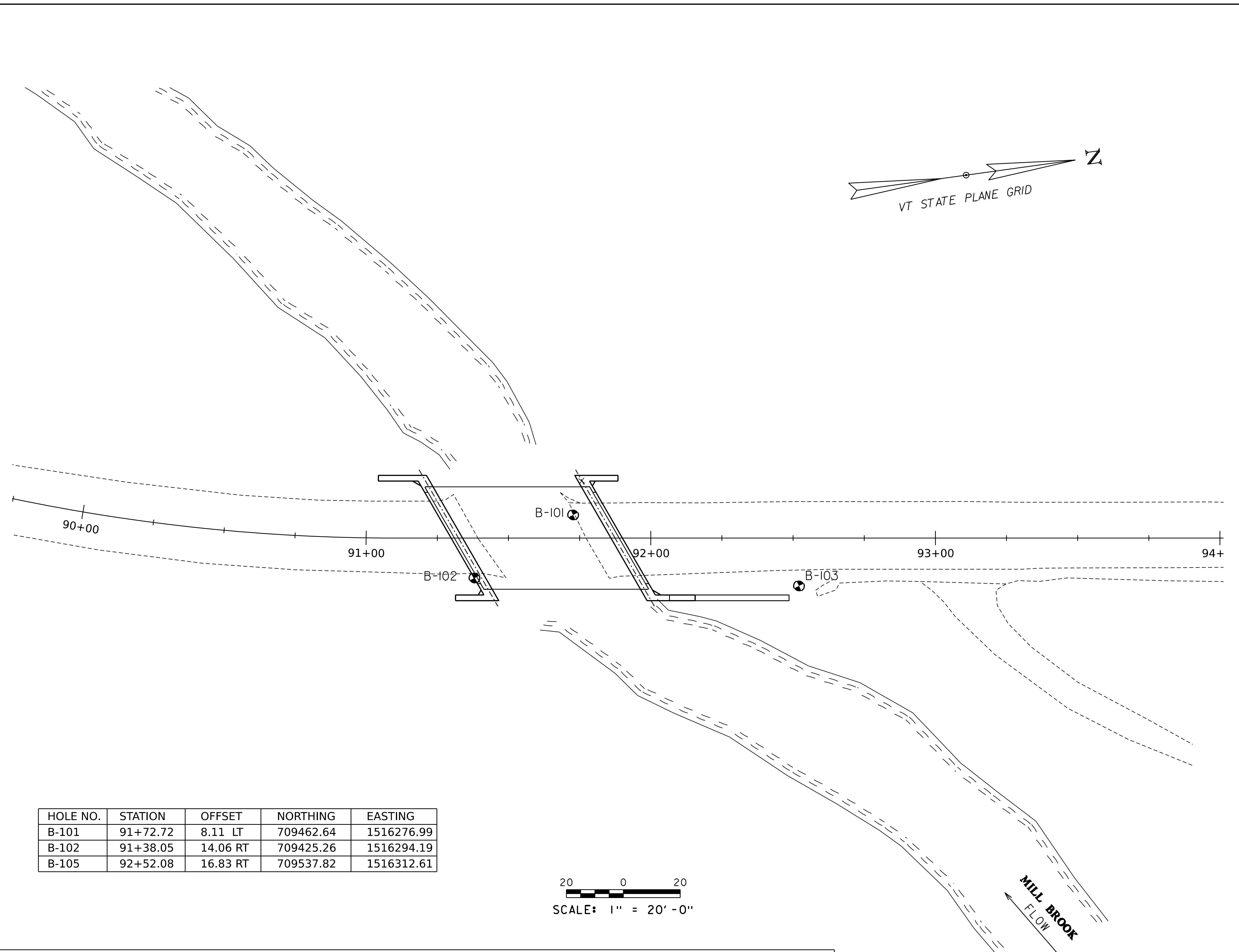
- ▼ Water Elevation
- ⊕ Standard Penetration Boring
- ⊗ Auger Boring
- ⊙ Rod Sounding
- S Sample
- N Standard Penetration Test  
Blow Count Per Foot For:  
2" O.D. Sampler  
1 3/8" I.D. Sampler  
Hammer Weight Of 140 Lbs.  
Hammer Fall Of 30"
- VS Field Vane Shear Test
- US Undisturbed Soil Sample
- B Blast
- DC Diamond Core
- MD Mud Drill
- WA Wash Ahead
- HSA Hollow Stem Auger
- AX Core Size 1 1/8"
- BX Core Size 1 7/8"
- NX Core Size 2 1/8"
- M Double Tube Core Barrel Used
- LL Liquid Limit
- PL Plastic Limit
- PI Plasticity Index
- NP Non Plastic
- w Moisture Content (Dry Wgt. Basis)
- D Dry
- M Moist
- MTW Moist To Wet
- W Wet
- Sat Saturated
- Bo Boulder
- Gr Gravel
- Sa Sand
- Si Silt
- Cl Clay
- HP Hardpan
- Le Ledge
- NLTD No Ledge To Depth
- CNPF Can Not Penetrate Further
- TLOB Top of Ledge Or Boulder
- NR No Recovery
- Rec. Recovery
- 1/2 Rec. Percent Recovery
- ROD Rock Quality Designation
- CBR California Bearing Ratio
- < Less Than
- > Greater Than
- R Refusal (N > 100)
- VTSPG NAD83 - See Note 7

**COLOR**

- blk Black
- bl Blue
- brn Brown
- dk Dark
- gr'y Gray
- gn Green
- lt Light
- or Orange
- pnk Pink
- pu Purple
- rd Red
- tn Tan
- wh White
- yel Yellow
- mltc Multicolored

**DEFINITIONS (AASHTO)**

- BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.
- BOULDER - A rock fragment with an average dimension > 12 inches.
- COBBLE - Rock fragments with an average dimension between 3 and 12 inches.
- GRAVEL - Rounded particles of rock < 3" and > 0.075" (#10 sieve).
- SAND - Particles of rock < 0.075" (#10 sieve) and > 0.0029" (#200 sieve).
- SLT - Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.
- CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.
- VARVED - Alternate layers of silt and clay.
- HARDPAN - Extremely dense soil, cemented layer, not softened when wet.
- MUCK - Soft organic soil (containing > 10% organic material).
- MOISTURE CONTENT - Weight of water divided by dry weight of soil.
- FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.
- STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.
- DIP - Inclination of bed with a horizontal plane.



HOLE NO.	STATION	OFFSET	NORTHING	EASTING
B-101	91+72.72	8.11 LT	709462.64	1516276.99
B-102	91+38.05	14.06 RT	709425.26	1516294.19
B-103	92+52.08	16.83 RT	709537.82	1516312.61

20 0 20  
SCALE: 1" = 20'-0"

**GENERAL NOTES**

- The subsurface explorations shown herein were made between 07/07/2021 and 07/17/2021 and between 02/15/2023 and 03/02/2023 by the Agency.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
- Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

PROJECT NAME: JERICHO  
PROJECT NUMBER: BF 0209 (10)

FILE NAME: sl2j634bor.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: A. MANN  
BORING INFORMATION SHEET

PLOT DATE: 25-JUL-2024  
DRAWN BY: A. MANN  
CHECKED BY: F. BARROWS  
SHEET 16 OF 47



**VT** STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY

**BORING LOG** Boring No.: B-101 Page No.: 1 of 3 Jericho BF 0209(10) FAS 209 Bridge No. 15 Checked By: AJA

Boring Crew: Judkins, Emerson, Arles  
 Date Started: 7/07/21 Date Finished: 7/13/21  
 VTSPG NAD83: N 709462.64 ft E 1516276.99 ft  
 Station: 91+73 Offset: 8.1 LT  
 Ground Elevation: 589.67 ft

Type: WB SS  
 I.D.: 4 in 1.5 in  
 Casing Sampler  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 55 TRACK CE = 1.52

Groundwater Observations

Date	Depth (ft)	Notes
07/07/21	1.8	WT After Drilling
07/12/21	0.4	WT Before Drilling
07/13/21	6.4	WT After Drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (0/p dep.)	Core Rec. % (ROD %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-0.95'		Visual Description: Asphalt 0.0'-0.95'								
0.95-1.1'		Visual Description: GrSa, brn, Moist, Rec. = 1.1 ft, Field Note: NXDC Cleanout 4.0'-5.0'				9-10-9-8 (19)				
1.1-10.0'		Field Note, No Recovery. Gravel in end of sampler, Rollercone Cleanout 9.1'-10.0'				6-4-4-6 (8)				
10.0-13.3'		Visual Description: SiSa w/ gravel, gry, Moist, Rec. = 0.3 ft, Field Note: Refusal @ 11.3' 50 blows/6". NXDC Cleanout 13.3'-15.0'				4-9-R@4" (R)				
13.3-19.7'		Visual Description: Si, gry, Moist, Rec. = 1.1 ft, Field Note: Rollercone Cleanout 19.7'-20.0'				8-8-12-16 (20)				
19.7-24.7'		Visual Description: Si, Lt/brn, Moist, Rec. = 1.5 ft, Field Note: NXDC Cleanout 24.7'-25.0'				11-19-20-23 (39)				
24.7-29.0'		Visual Description: Si, gry, Moist, Rec. = 1.5 ft, Field Note: Apparent Boulder 27.0'-29.0'. NXDC Cleanout 28.8'-30.0'				5-21-34-38 (55)				
29.0-33.5'		A-4, Si, gry, Moist, Rec. = 1.7 ft, Field Note: Rollercone Cleanout 33.5'-35.0'				15-18-30-31 (48)	24.7	0.1	2.5	97.4
33.5-39.3'		Visual Description: ClSi, gry, Moist, Rec. = 1.4 ft, Field Note: Refusal @ 36.8' 100 blows. Rollercone Cleanout 39.3'-40.0'				13-25-39-R@4" (64)				
39.3-41.8'		A-4, Si, Lt/brn, Moist, Rec. = 1.5 ft, Field Note: Refusal @ 41.8' 100 blows.				12-23-32-R@4" (55)	23.7	1.0	17.5	81.5
41.8-46.8'		Visual Description: Si, brn, Moist, Rec. = 1.2 ft, Field Note: Refusal @ 46.8' 100 blows				10-20-46-R@4" (68)				

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

**VT** STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY

**BORING LOG** Boring No.: B-101 Page No.: 2 of 3 Jericho BF 0209(10) FAS 209 Bridge No. 15 Checked By: AJA

Boring Crew: Judkins, Emerson, Arles  
 Date Started: 7/07/21 Date Finished: 7/13/21  
 VTSPG NAD83: N 709462.64 ft E 1516276.99 ft  
 Station: 91+73 Offset: 8.1 LT  
 Ground Elevation: 589.67 ft

Type: WB SS  
 I.D.: 4 in 1.5 in  
 Casing Sampler  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 55 TRACK CE = 1.52

Groundwater Observations

Date	Depth (ft)	Notes
07/07/21	1.8	WT After Drilling
07/12/21	0.4	WT Before Drilling
07/13/21	6.4	WT After Drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (0/p dep.)	Core Rec. % (ROD %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-0.2'		Visual Description: SaSi, gry, Moist, Rec. = 0.2 ft, Field Note: Refusal @ 50.2 10 blows no movement. NXDC Cleanout 59.3'-60.0'				R@2" (R)				
0.2-61.3'		A-4, Si, gry, Moist, Rec. = 0.3 ft, Field Note: Refusal @ 61.3' 100 blows. NXDC Cleanout 69.0'-70.0'				25-42-R@3" (R)	24.5	1.9	10.5	87.6
61.3-70.8'		Visual Description: Si, gry, Moist, Rec. = 0.8 ft, Field Note: Refusal @ 70.8' 50 blows per 6". NXDC Cleanout 77.7'-80.0'				26-R@4" (R)				
70.8-81.8'		A-4, SaSi, Lt/brn, Moist, Rec. = 1.4 ft, Field Note: Refusal @ 81.8' 100 blows. NXDC Cleanout 88.8'-90.0'				19-26-36-R@4" (42)	17.9	19.3	27.5	53.2
81.8-98.0'		A-4, SaSi, Lt/brn, Moist, Rec. = 1.5 ft, Field Note: NXDC Cleanout 98.0'-100.0'				11-21-27-32 (48)	27.2	3.3	37.9	58.8

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

**VT** STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY

**BORING LOG** Boring No.: B-101 Page No.: 3 of 3 Jericho BF 0209(10) FAS 209 Bridge No. 15 Checked By: AJA

Boring Crew: Judkins, Emerson, Arles  
 Date Started: 7/07/21 Date Finished: 7/13/21  
 VTSPG NAD83: N 709462.64 ft E 1516276.99 ft  
 Station: 91+73 Offset: 8.1 LT  
 Ground Elevation: 589.67 ft

Type: WB SS  
 I.D.: 4 in 1.5 in  
 Casing Sampler  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 55 TRACK CE = 1.52

Groundwater Observations

Date	Depth (ft)	Notes
07/07/21	1.8	WT After Drilling
07/12/21	0.4	WT Before Drilling
07/13/21	6.4	WT After Drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (0/p dep.)	Core Rec. % (ROD %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-1.4'		Visual Description: Si, Lt/brn, Moist, Rec. = 1.4 ft, Field Note: Refusal @ 101.7' 100 blows. NXDC Cleanout 108.5'-110.0'				10-22-35-R@2" (57)				
1.4-110.1'		Visual Description: Si Broken Rock, Lt/brn, Moist, Rec. = 0.1 ft, Field Note: Refusal @ 110.1' 10 blows no movement 110.1 ft - 115.0 ft, NXMDC 110'-115'. No Recovery. NXMDC	R-1	0	3	R@1" (R)				Tip of Bedrock @ 110.1 ft
110.1-115.0'		115.0 ft - 120.0 ft, NXMDC 115'-120'. No Recovery. NXMDC	R-2	0	5					
115.0-120.1'		Visual Description: Si Broken Rock, Lt/brn, Moist, Rec. = 0.3 ft, Field Note: Refusal @ 120' no movement Hole stopped @ 120.1 ft				R@4" (R)				
120.1-32.9'		Remarks: Hole Collapsed @ 32.9'								

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

ABUT 1 BOT. ELEV 579.00

EST PILE TIP ELEV 479.57

BORING LOG - JERICO BF 0209(10) VERMONT AOT.GDT 9/14/21

BORING LOG - JERICO BF 0209(10) VERMONT AOT.GDT 9/14/21

BORING LOG - JERICO BF 0209(10) VERMONT AOT.GDT 9/14/21

PROJECT NAME: JERICO  
 PROJECT NUMBER: BF 0209 (10)  
 FILE NAME: sl2j634bor.dgn  
 PROJECT LEADER: R. YOUNG  
 DESIGNED BY: A. MANN  
 BORING LOGS 1

PLOT DATE: 25-JUL-2024  
 DRAWN BY: A. MANN  
 CHECKED BY: F. BARROWS  
 SHEET 17 OF 47

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-102				
Jericho BF 0209(10) FAS 209 Bridge No. 15		Page No.: 1 of 3		Pin No.: 12j634		Checked By: AJA				
Boring Crew: Judkins, Brochu, Emerson		Type: WB		Casing: 4 in		Sampler: SS				
Date Started: 7/13/21 Date Finished: 7/17/21		I.D.: 4 in		Hammer Wt: N.A.		140 lb.				
VTSPG NAD83: N 709425.26 ft E 1516294.19 ft		Hammer Fall: N.A.		Hammer/Rod Type: Auto/AWJ		CE = 1.52				
Station: 91+38 Offset: 14.1 RT		Date: 07/13/21		Depth (ft): 1.5		Notes: WT After Drilling				
Ground Elevation: 589.64 ft		Date: 07/14/21		Depth (ft): 1.0		Notes: WT Before Drilling				
		Date: 07/17/21		Depth (ft): 4.8		Notes: WT After Drilling				
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Dip Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0		0.0 ft - 1.1 ft, Field Note: Asphalt 0.0'-1.1'								
0.7		Visual Description: SaGr, brn, Moist, Rec. = 0.7 ft, Field Note: Asphalt grindings. Rollercone Cleanout 3.9'-5.0'				15-18-12-10 (30)				
5		Visual Description: GrSa, brn, Moist, Rec. = 1.0 ft, Field Note: Rollercone Cleanout 8.1'-10.0'				5-7-8-6 (15)				
10		Visual Description: SaGr, brn, Moist, Rec. = 0.6 ft, Field Note: NXDC Cleanout 11.7'-15.0'. Apparent Concrete 14.0'-18.0'				15-17-13-8 (30)				
20		A-4, Si, brn, Moist, Rec. = 1.3 ft				8-12-14 (26)	20.4	1.5		98.5
25		A-2-4, SiSa, brn, Moist, Rec. = 1.7 ft, Field Note: Refusal @ 26.8' 100 blows. NXDC Cleanout 29.0'-30.0'				14-24-30-R@4 (54)	20.8	4.1	66.9	29.0
30		A-4, SaSi, brn, Moist, Rec. = 1.3 ft, Field Note: Refusal @ 31.6' 100 blows. Rollercone Cleanout 34.3'-35.0'				19-30-45-R@1 (75)	16.6	15.0	36.7	48.3
35		A-4, Si, brn, Moist, Rec. = 1.1 ft, Field Note: Refusal @ 36.2' 10 blows no movement. Rollercone Cleanout 36.5'-40.0'				10-30-R@2 (R)	24.3	1.7	12.9	85.4
40		Visual Description: Si, brn, Moist, Rec. = 0.9 ft, Field Note: Refusal @ 40.9' 50 blows per 6". NXDC Cleanout 48.8'-50.0'				25-R@5 (R)				

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-102				
Jericho BF 0209(10) FAS 209 Bridge No. 15		Page No.: 2 of 3		Pin No.: 12j634		Checked By: AJA				
Boring Crew: Judkins, Brochu, Emerson		Type: WB		Casing: 4 in		Sampler: SS				
Date Started: 7/13/21 Date Finished: 7/17/21		I.D.: 4 in		Hammer Wt: N.A.		140 lb.				
VTSPG NAD83: N 709425.26 ft E 1516294.19 ft		Hammer Fall: N.A.		Hammer/Rod Type: Auto/AWJ		CE = 1.52				
Station: 91+38 Offset: 14.1 RT		Date: 07/13/21		Depth (ft): 1.5		Notes: WT After Drilling				
Ground Elevation: 589.64 ft		Date: 07/14/21		Depth (ft): 1.0		Notes: WT Before Drilling				
		Date: 07/17/21		Depth (ft): 4.8		Notes: WT After Drilling				
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Dip Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.7		Visual Description: GrSa, brn, Moist, Rec. = 0.7 ft, Field Note: Refusal @ 50.7' 50 blows per 6". NXDC Cleanout 59.2'-60.0'				41-R@5 (R)				
60		A-4, Si, brn, Moist, Rec. = 0.8 ft, Field Note: Refusal @ 60.8' 50 blows per 6". NXDC Cleanout 67.2'-70.0'				32-R@4 (R)	23.6	1.3	17.5	81.2
70		Visual Description: Si, brn, Moist, Rec. = 1.2 ft, Field Note: Refusal @ 71.2'. Rollercone Cleanout 78.2'-80.0'				30-35-R@2 (R)				
80		Visual Description: Si, Lt/brn, Moist, Rec. = 1.0 ft, Field Note: Refusal @ 81.7' 100 blows. Rollercone Cleanout 88.5'-90.0'				14-29-36-R@3 (35)				
90		A-4, GrSaSi, Lt/brn, Moist, Rec. = 1.0 ft, Field Note: Refusal @ 91.3' 100 blows. Field Note, Drilling was advanced from 91.3 to top of bedrock without sampling.				31-40-R@3 (R)	16.3	26.5	37.7	35.8

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-102				
Jericho BF 0209(10) FAS 209 Bridge No. 15		Page No.: 3 of 3		Pin No.: 12j634		Checked By: AJA				
Boring Crew: Judkins, Brochu, Emerson		Type: WB		Casing: 4 in		Sampler: SS				
Date Started: 7/13/21 Date Finished: 7/17/21		I.D.: 4 in		Hammer Wt: N.A.		140 lb.				
VTSPG NAD83: N 709425.26 ft E 1516294.19 ft		Hammer Fall: N.A.		Hammer/Rod Type: Auto/AWJ		CE = 1.52				
Station: 91+38 Offset: 14.1 RT		Date: 07/13/21		Depth (ft): 1.5		Notes: WT After Drilling				
Ground Elevation: 589.64 ft		Date: 07/14/21		Depth (ft): 1.0		Notes: WT Before Drilling				
		Date: 07/17/21		Depth (ft): 4.8		Notes: WT After Drilling				
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Dip Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
120		120.0 ft - 125.0 ft, NXMDC 120'-125'. Recovered rock was not examined for description. Based on quality of sample recovered, the rock is extremely weathered. NXMDC				R-1	20			
125		125.0 ft - 130.0 ft, NXMDC 125'-130'. Recovered rock was not examined for description. Based on quality of sample recovered, the rock is extremely weathered. NXMDC				R-2	20			
130		Hole stopped @ 130.0 ft								
135		Remarks: Hole Collapsed @ 4.8'								

Notes:  
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ABUT 2 BOT. ELEV VARIES

EST PILE TIP ELEV 469.64

PROJECT NAME: JERICO  
PROJECT NUMBER: BF 0209 (10)  
FILE NAME: sj2j634bor.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: A. MANN  
BORING LOGS 2  
PLOT DATE: 25-JUL-2024  
DRAWN BY: A. MANN  
CHECKED BY: F. BARROWS  
SHEET 18 OF 47

VTTrans Working In Get You There		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-105				
		Jericho BF 0209(10) FAS 209 Bridge No. 15				Page No.: 1 of 5				
						Pin No.: 121634				
						Checked By: AJA				
Boring Crew: McGinley, Monette, Arles, Zottola		Casing Sampler		Groundwater Observations						
Date Started: 2/15/23 Date Finished: 3/02/23		Type: WB	SS	Date	Depth (ft)	Notes				
VTSPG NAD83: N 709541.10 ft E 1516318.10 ft		I.D.: 4 in	1.5 in	02/16/23	0.0	WT After Drilling				
Station: 92+56 Offset: 21.9 RT		Hammer Wt: N.A.	140 lb.	02/16/23	5.0	WT Before Drilling				
Ground Elevation: 590.7 ft		Hammer/Fall: N.A.	30 in.	02/27/23		See Remarks				
		Hammer/Rod Type: Auto/AWJ								
		Rig: CME 55 TRACK	CE = 1.52							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RDP %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Grave %	Sand %	Fines %
		Field Note, brn, Moist, Rec. = 0.3 ft, Field Description: SAND, some silt, trace gravel, trace organics				4-2-1-2 (3)				
		Field Note, brn, MTW, Rec. = 1.0 ft, Field Description: SILT and SILT, littel gravel, Refusal @ 3.8', 10 blows no movement. NXDC core through cobble 4.5-5.0'				3-3-1- R01" (4)				
5		A-2-4, brn, MTW, Rec. = 0.8 ft, Lab Classification: SAND, some gravel				11-7-8- 11 (15)	12.5	28.6	52.6	18.8
		Field Note, Lt brn, MTW, Rec. = 1.1 ft, NXDC cleanout 7.8'-9.0'				20-9-10- 15 (19)				
10		Field Note, Lt brn, Moist, Rec. = 1.0 ft, Field Description: SILT and SAND, trace gravel. Refusal @ 10.6', 100 blows				15-32- 46- R01" (58)				
		A-4, Lt brn, MTW, Rec. = 1.2 ft, Lab Classification: SILT, some gravel. Refusal @ 12.5', 100 blows				27-33- R00" (R)	14.6	31.3	16.5	52.2
		Field Note, Lt brn, Moist, Rec. = 0.9 ft, Field Description: SILT and broken rock. Refusal @ 13.9', 50 blows per 0.5'				28- R00" (R)				
15		A-4, gry, Moist, Rec. = 1.2 ft, Lab Classification: SILT, some gravel, some sand. Refusal @ 16.6', 100 blows				21-28- R01" (67)	15.9	32.2	23.9	43.9
		A-4, gry, Moist, Rec. = 1.3 ft, Lab Classification: SILT and SAND. Refusal @ 18.6', 100 blows				23-31- 40- R01" (71)	15.9	12.5	41.3	46.2
20		Field Note, Rec. = 0.0 ft, No Recovery. Refusal @ 19.0', 10 blows, no movement				R00" (R)				
		Field Note, gry, Moist, Rec. = 0.2 ft, Field Description: Weatherd/broken rock, some sand. Refusal @ 21.2', 50 blows per 0.5'. BXDC Cleanout from 21.2'-23.0', recovered 1.3' of core, and several inches of broken rock				R02" (R)				
		Field Note, Rec. = 0.0 ft, No Recovery. Refusal @ 23.0', 10 blows, no movement. BXDC Cleanout 23.0'-25.0', barrel began to advance quickly at 24.0'				R00" (R)				
25		A-4, Lt brn, Moist, Rec. = 1.3 ft, Lab Classification: SILT some sand. Refusal @ 26.6', 100 blows				25-30- 29- R01" (59)	17.2	15.7	29.7	54.6
		A-4, Lt brn, Moist, Rec. = 1.5 ft, Lab Classification: SILT, some gravel. Refusal @ 28.8', 100 blows				15-26- 35- R04" (42)	21.4	25.2	7.7	67.1
30		A-4, Lt brn, Moist, Rec. = 1.3 ft, Lab Classification: SILT. Refusal @ 30.6', 100 blows				16-28- 39- R01" (47)	22.0	17.9	4.8	77.3

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.  
4. "bgs" is used as the shorthand stand in for "Below Ground Surface".

VTTrans Working In Get You There		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-105				
		Jericho BF 0209(10) FAS 209 Bridge No. 15				Page No.: 2 of 5				
						Pin No.: 121634				
						Checked By: AJA				
Boring Crew: McGinley, Monette, Arles, Zottola		Casing Sampler		Groundwater Observations						
Date Started: 2/15/23 Date Finished: 3/02/23		Type: WB	SS	Date	Depth (ft)	Notes				
VTSPG NAD83: N 709541.10 ft E 1516318.10 ft		I.D.: 4 in	1.5 in	02/16/23	0.0	WT After Drilling				
Station: 92+56 Offset: 21.9 RT		Hammer Wt: N.A.	140 lb.	02/16/23	5.0	WT Before Drilling				
Ground Elevation: 590.7 ft		Hammer/Fall: N.A.	30 in.	02/27/23		See Remarks				
		Hammer/Rod Type: Auto/AWJ								
		Rig: CME 55 TRACK	CE = 1.52							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RDP %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Grave %	Sand %	Fines %
		A-4, Lt brn, Moist, Rec. = 1.7 ft, Lab Classification: SILT, some sand. Refusal @ 36.7', 100 blows				23-22- 35- R02" (57)	21.2	12.5	23.2	64.3
40		A-4, Lt brn, Moist, Rec. = 1.3 ft, Lab Classification: SILT, and SAND. Refusal @ 41.3', 100 blows				28-44- R04" (R)	18.7	1.3	45.7	53.0
		Field Note, Casing was advanced to bedrock without any sampling.								
45										
50										
55		Field Note, Cobble/Boulder from 56.0'-57.0'								
60										
65										

Notes:  
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3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.  
4. "bgs" is used as the shorthand stand in for "Below Ground Surface".

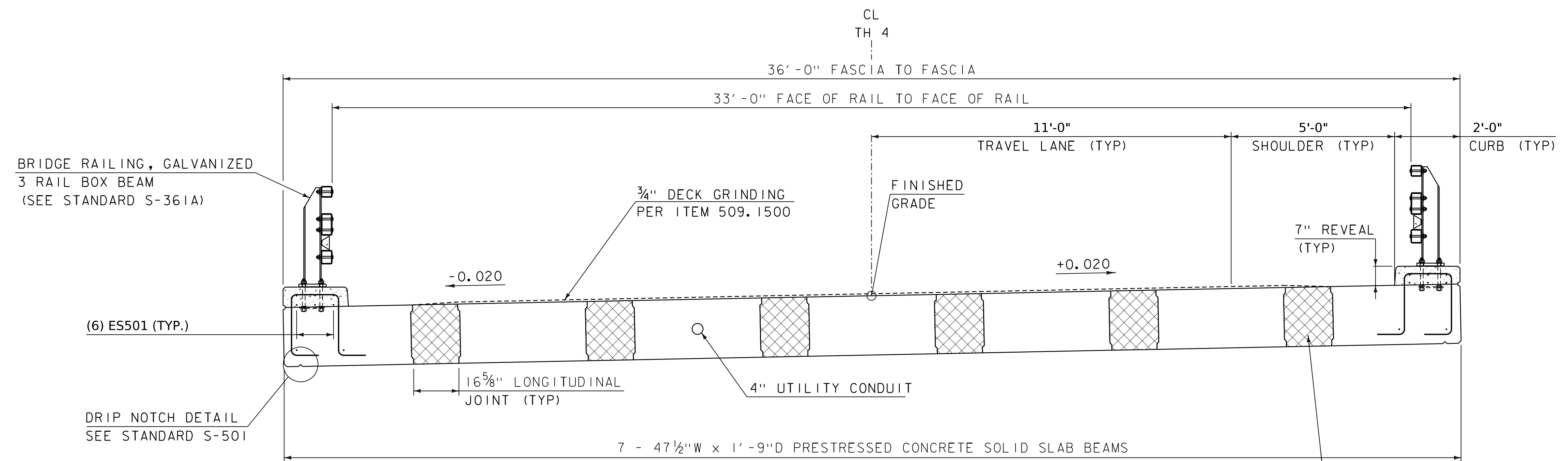
VTTrans Working In Get You There		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-105				
		Jericho BF 0209(10) FAS 209 Bridge No. 15				Page No.: 3 of 5				
						Pin No.: 121634				
						Checked By: AJA				
Boring Crew: McGinley, Monette, Arles, Zottola		Casing Sampler		Groundwater Observations						
Date Started: 2/15/23 Date Finished: 3/02/23		Type: WB	SS	Date	Depth (ft)	Notes				
VTSPG NAD83: N 709541.10 ft E 1516318.10 ft		I.D.: 4 in	1.5 in	02/16/23	0.0	WT After Drilling				
Station: 92+56 Offset: 21.9 RT		Hammer Wt: N.A.	140 lb.	02/16/23	5.0	WT Before Drilling				
Ground Elevation: 590.7 ft		Hammer/Fall: N.A.	30 in.	02/27/23		See Remarks				
		Hammer/Rod Type: Auto/AWJ								
		Rig: CME 55 TRACK	CE = 1.52							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RDP %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Grave %	Sand %	Fines %
		Field Note, Casing was advanced to bedrock without any sampling.								
75										
80										
85										
90										
95										
100										

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.  
4. "bgs" is used as the shorthand stand in for "Below Ground Surface".

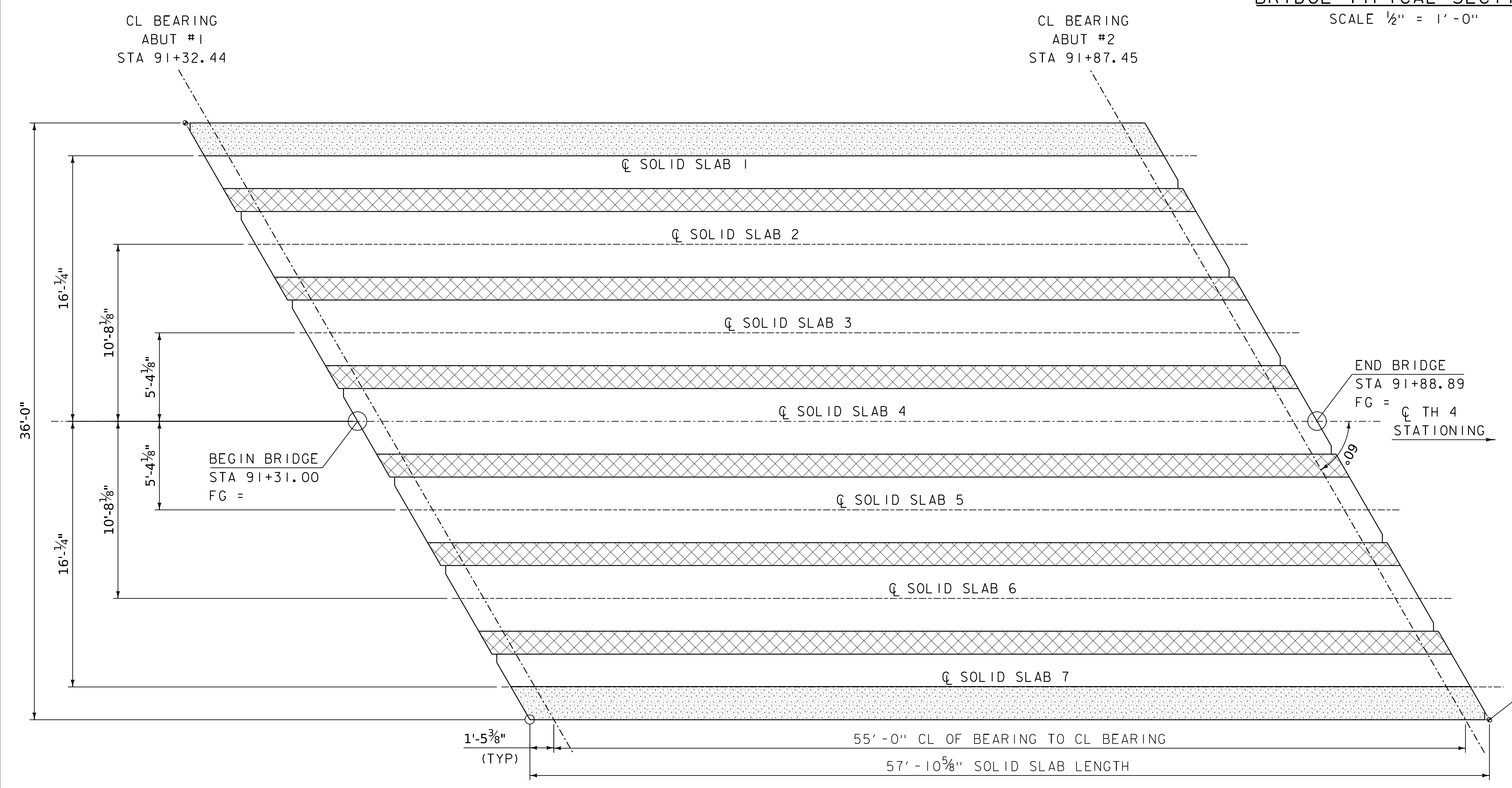
PROJECT NAME: JERICO  
PROJECT NUMBER: BF 0209 (10)

FILE NAME: sl2j634bor.dgn PLOT DATE: 25-JUL-2024  
PROJECT LEADER: R. YOUNG DRAWN BY: A. MANN  
DESIGNED BY: A. MANN CHECKED BY: F. BARROWS  
BORING LOGS 3 SHEET 19 OF 47





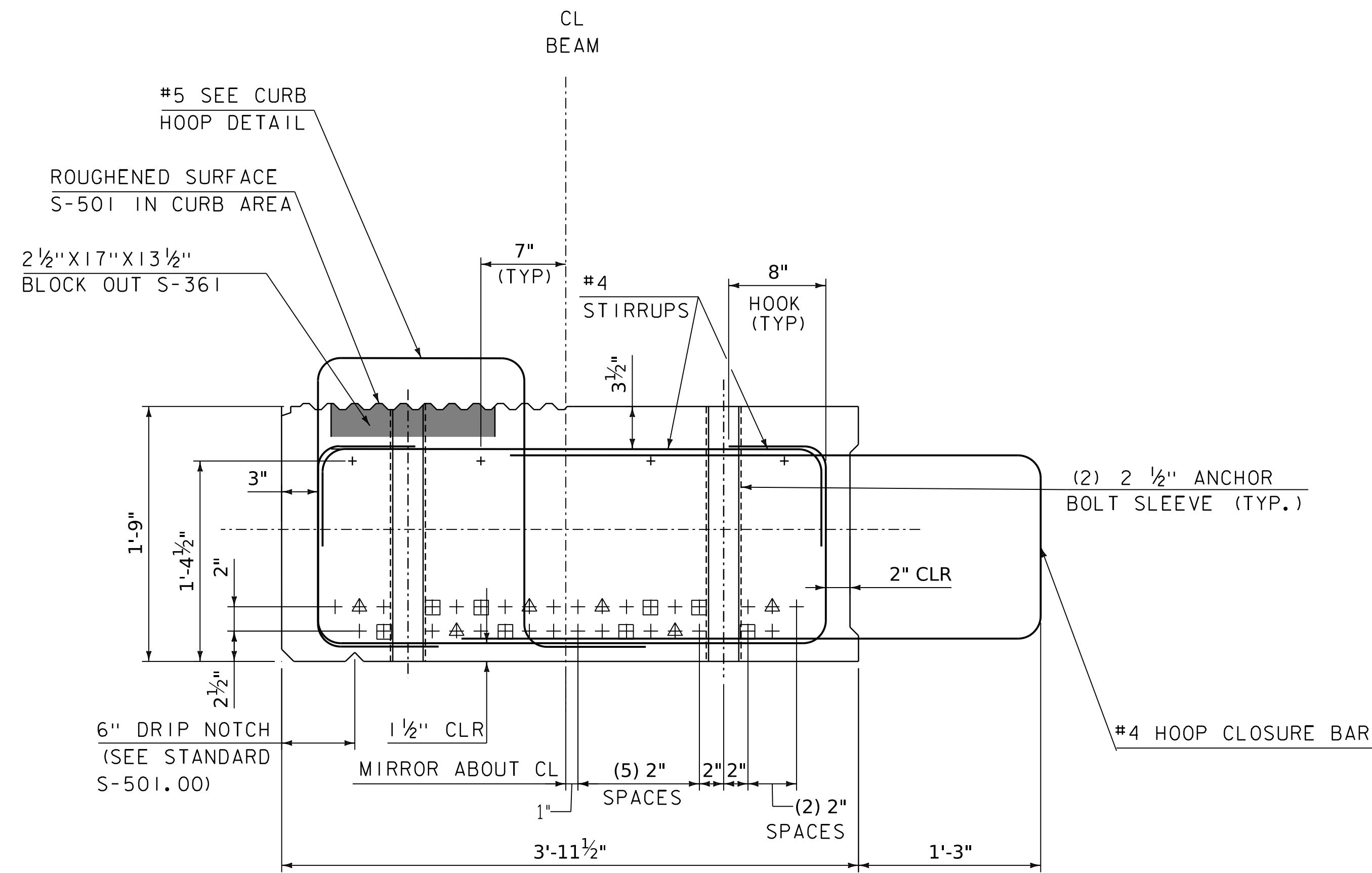
**BRIDGE TYPICAL SECTION**  
SCALE 1/2" = 1'-0"



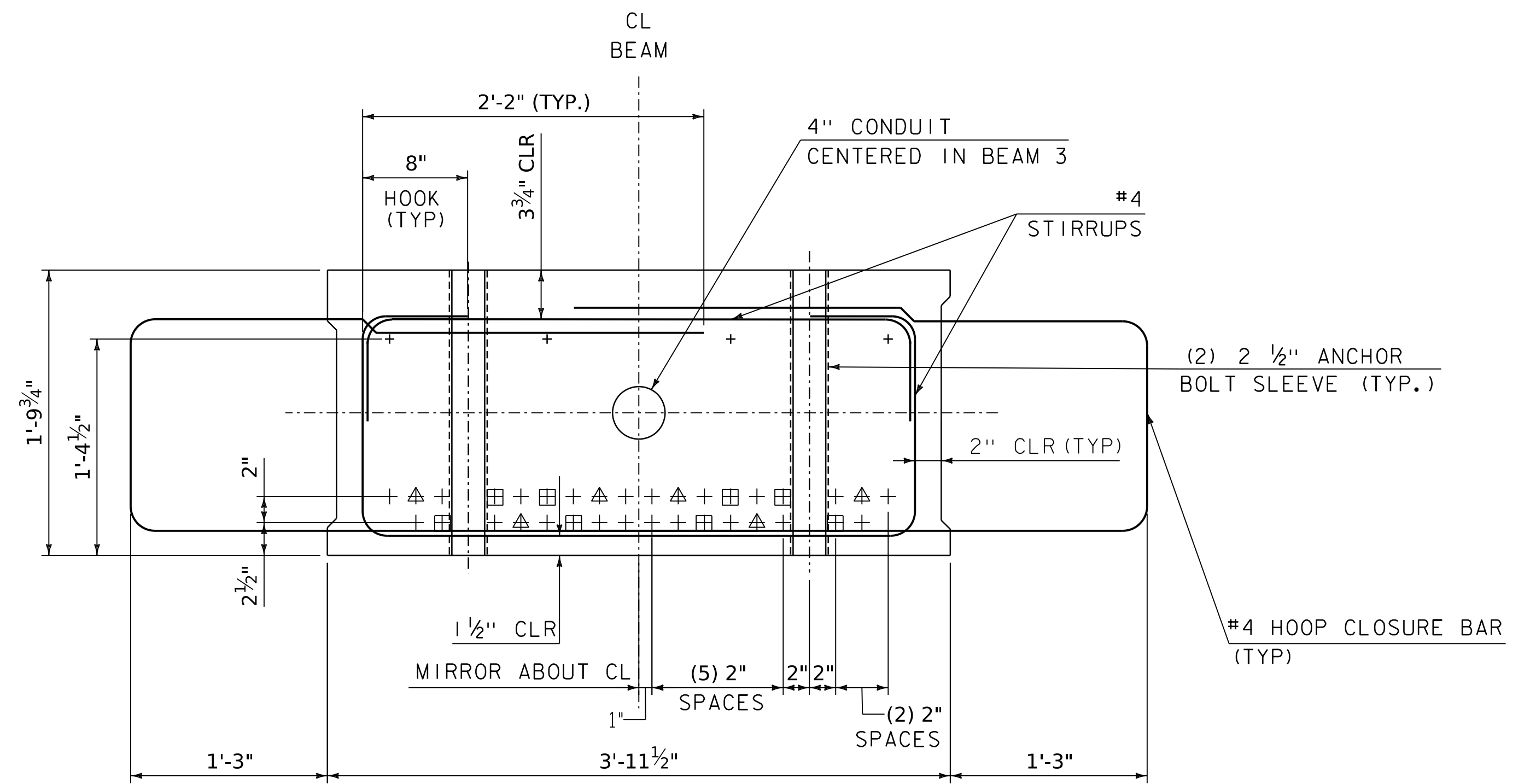
**SOLID SLAB LAYOUT**  
SCALE 1/4" = 1'-0"

- ITEM 542.1000 HIGH PERFORMANCE CONCRETE, RAPID SET
- ITEM 501.3700 PERFORMANCE-BASED CONCRETE, CLASS PCD

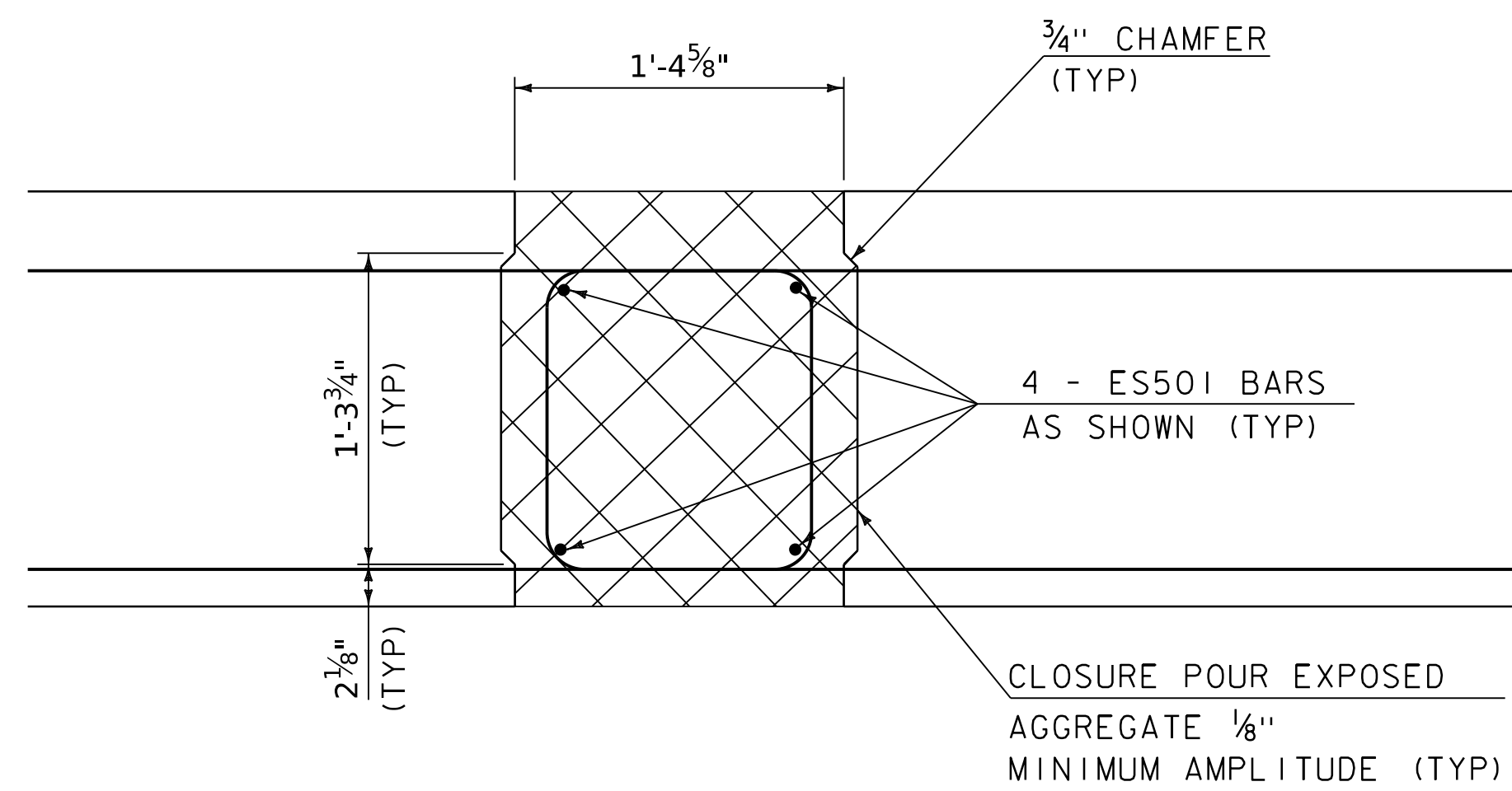
PROJECT NAME:	JERICHO	PLOT DATE:	25-JUL-2024
PROJECT NUMBER:	BF 0209(10)	DRAWN BY:	R. PELLETT
FILE NAME:	sl2j634sup.dgn	CHECKED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	SHEET	21 OF 47
DESIGNED BY:	A. MANN		
SOLID SLAB DECK PLAN			



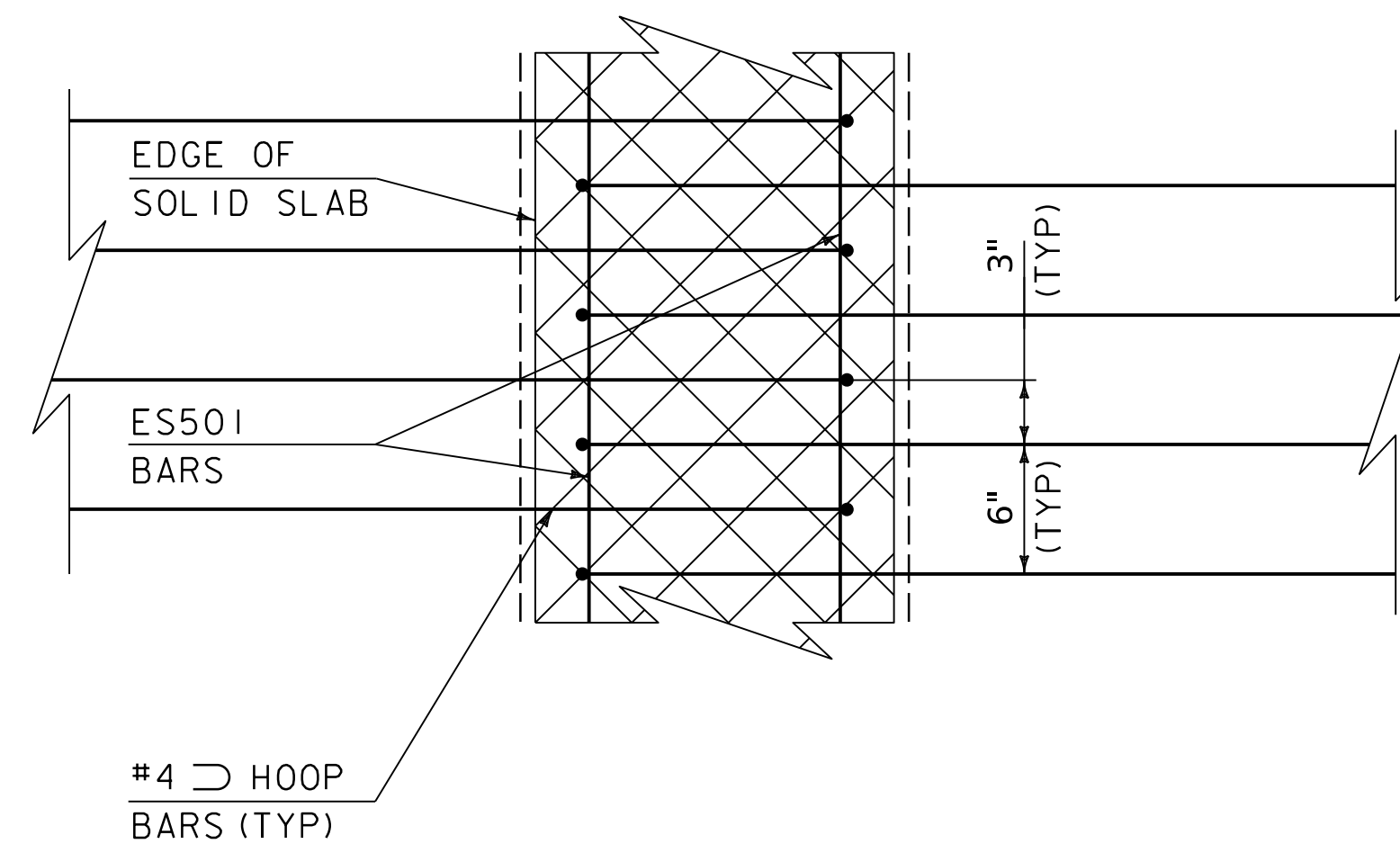
**SLAB 1**  
SCALE: 1/2" = 1'-0"



**SLAB 2 TO 7**  
SCALE: 1/2" = 1'-0"



**CLOSURE POUR DETAIL SECTION**  
SCALE 1/2" = 1'-0"



**CLOSURE POUR PARTIAL PLAN**  
SCALE 1/2" = 1'-0"

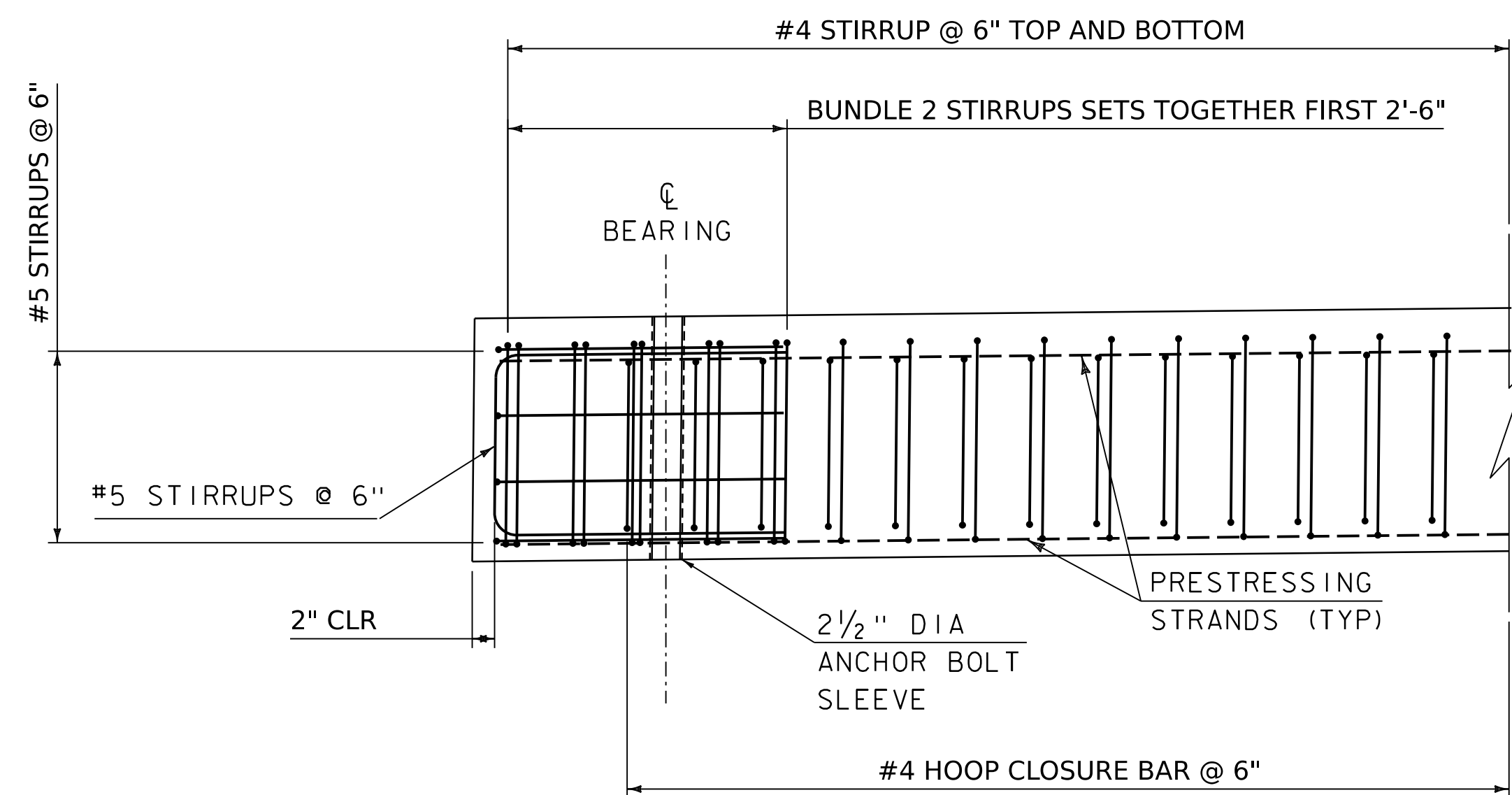
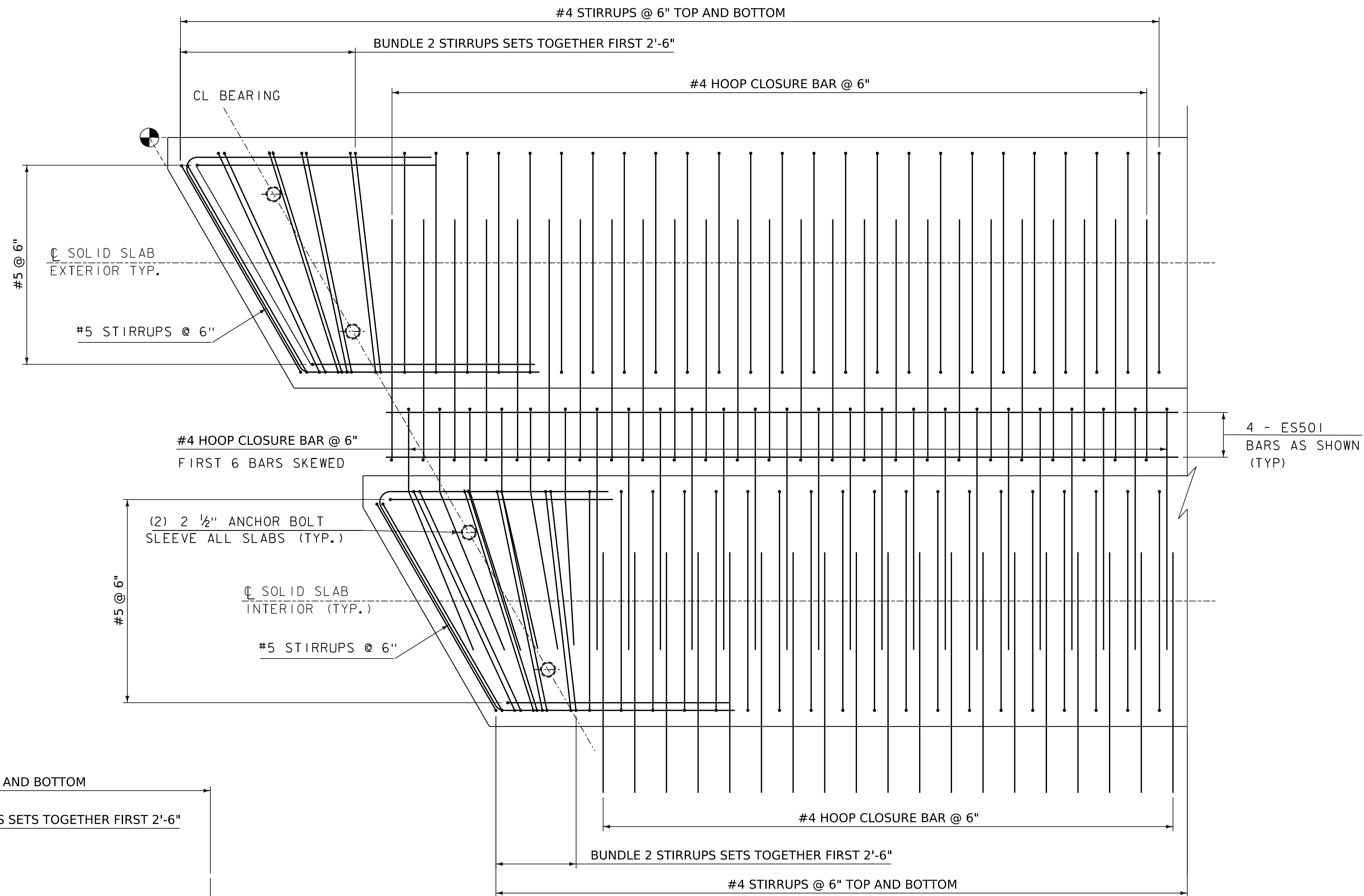
**LEGEND:**

- + DENOTES STRAIGHT 0.60" DIAMETER FULLY BONDED PRESTRESSING STRANDS
- ▲ DENOTES STRANDS DEBONDED FOR 3'-0" AT EACH END OF BEAM
- ⊕ DENOTES STRANDS DEBONDED FOR 6'-0" AT EACH END OF BEAM
- ⊗ ITEM 542.1000 HIGH PERFORMANCE CONCRETE, RAPID SET
- ⊠ ITEM 501.3700 PERFORMANCE-BASED CONCRETE, CLASS PCD

PROJECT NAME: JERICHO  
PROJECT NUMBER: BF 0209(10)

FILE NAME: sl2j634sup.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: A. MANN  
SOLID SLAB & CLOSURE POUR DETAILS

PLOT DATE: 25-JUL-2024  
DRAWN BY: R. PELLETT  
CHECKED BY: F. BARROWS  
SHEET 22 OF 47



**BEAM END REINFORCEMENT PLAN**

SCALE 1" = 1'-0"

(PRESTRESSING STRANDS OMITTED FOR CLARITY)

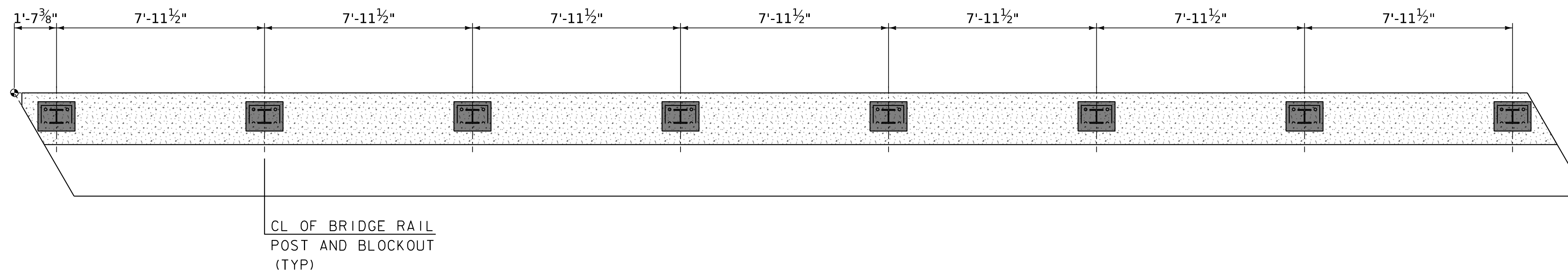
**BEAM END REINFORCEMENT ELEVATION**

SCALE 1" = 1'-0"

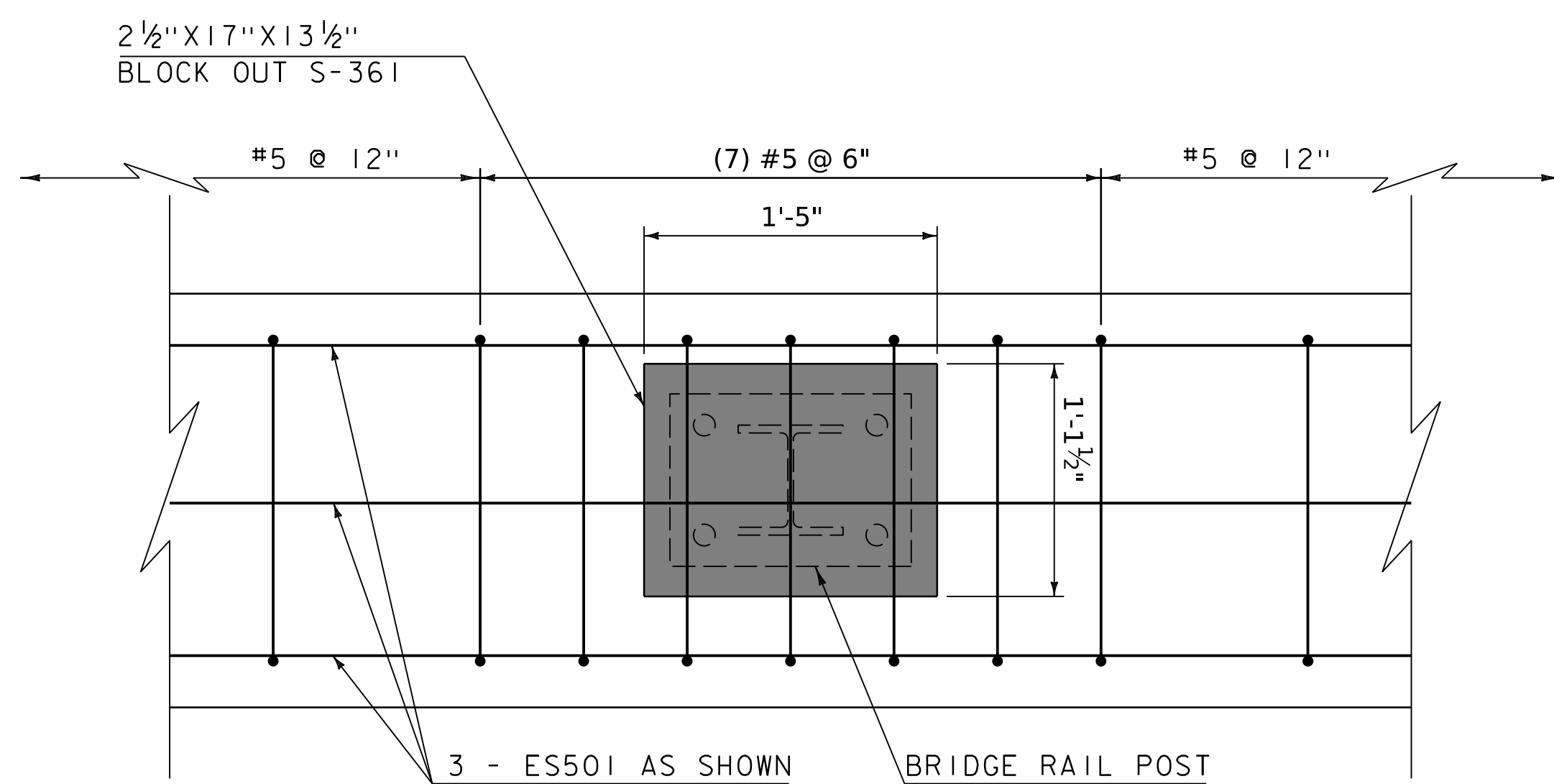
PROJECT NAME: JERICHO  
PROJECT NUMBER: BF 0209(10)

FILE NAME: sl2j634sup.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: A. MANN  
SOLID SLAB PLAN & ELEVATION DETAILS

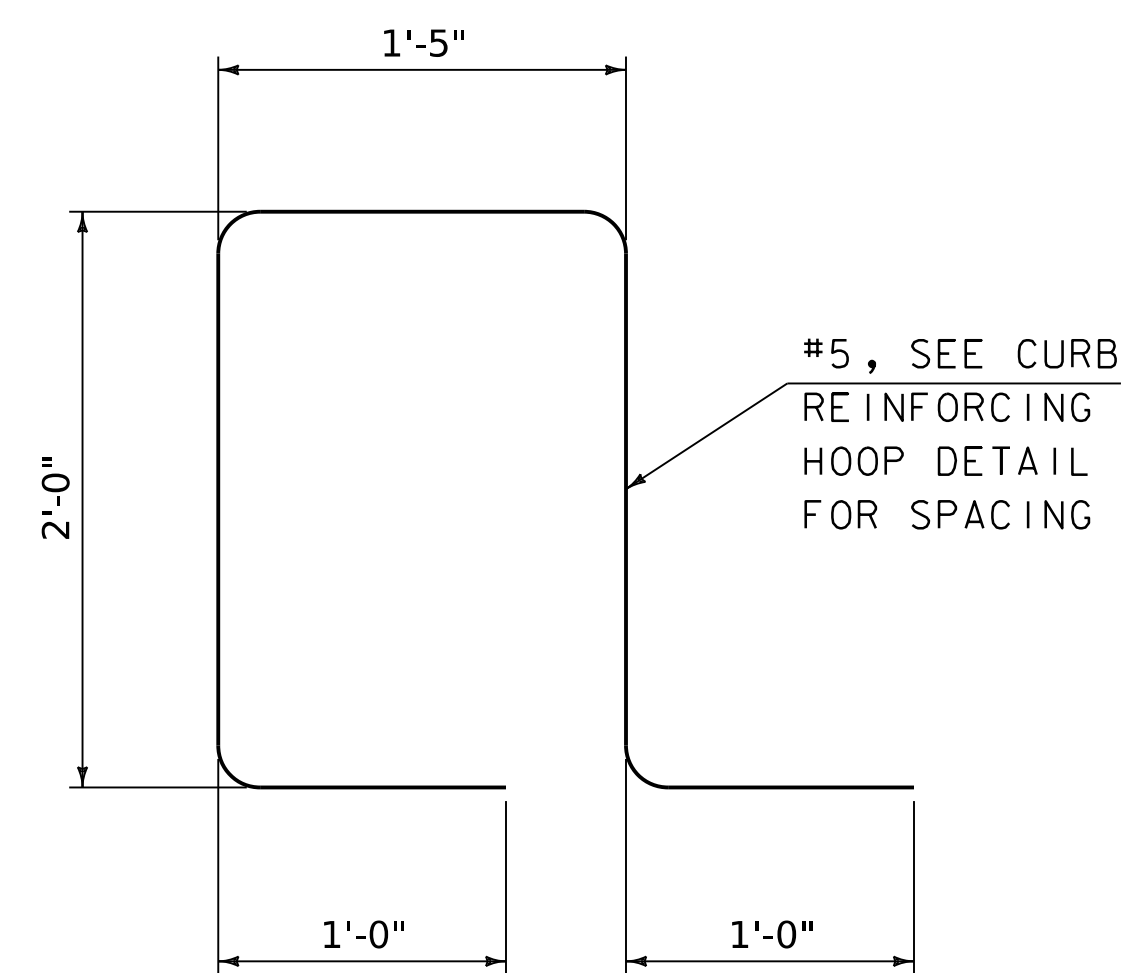
PLOT DATE: 25-JUL-2024  
DRAWN BY: R. PELLETT  
CHECKED BY: F. BARROWS  
SHEET 23 OF 47



**BLOCKOUT PLAN LAYOUT EXTERIOR BEAMS**  
SCALE: 1 $\frac{1}{2}$ " = 1'-0"



**CURB REINFORCING DETAIL**  
SCALE: 1 $\frac{1}{2}$ " = 1'-0"

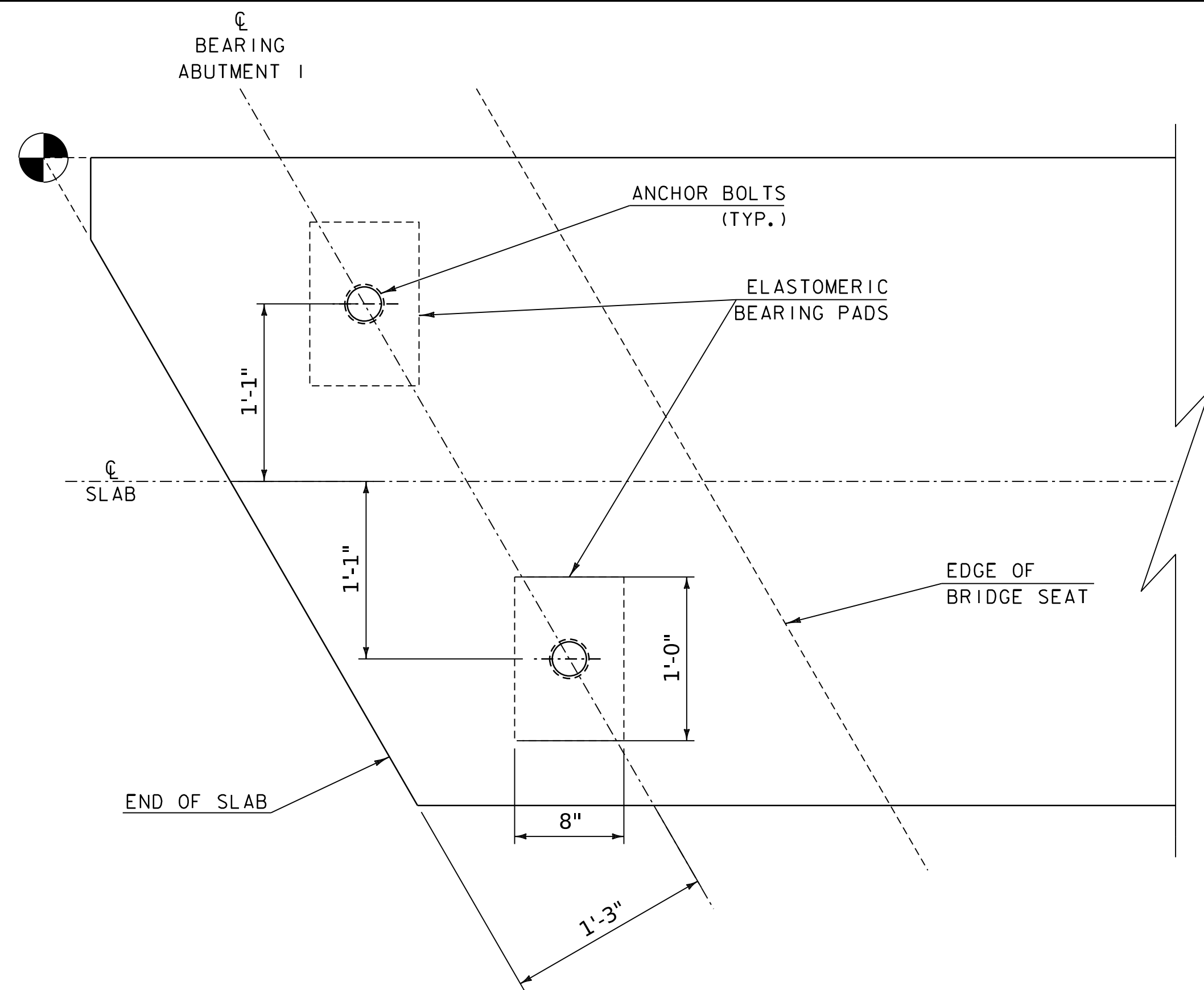


**CURB HOOP DETAIL**  
SCALE: 1 $\frac{1}{2}$ " = 1'-0"

PROJECT NAME: JERICHO  
PROJECT NUMBER: BF 0209(10)

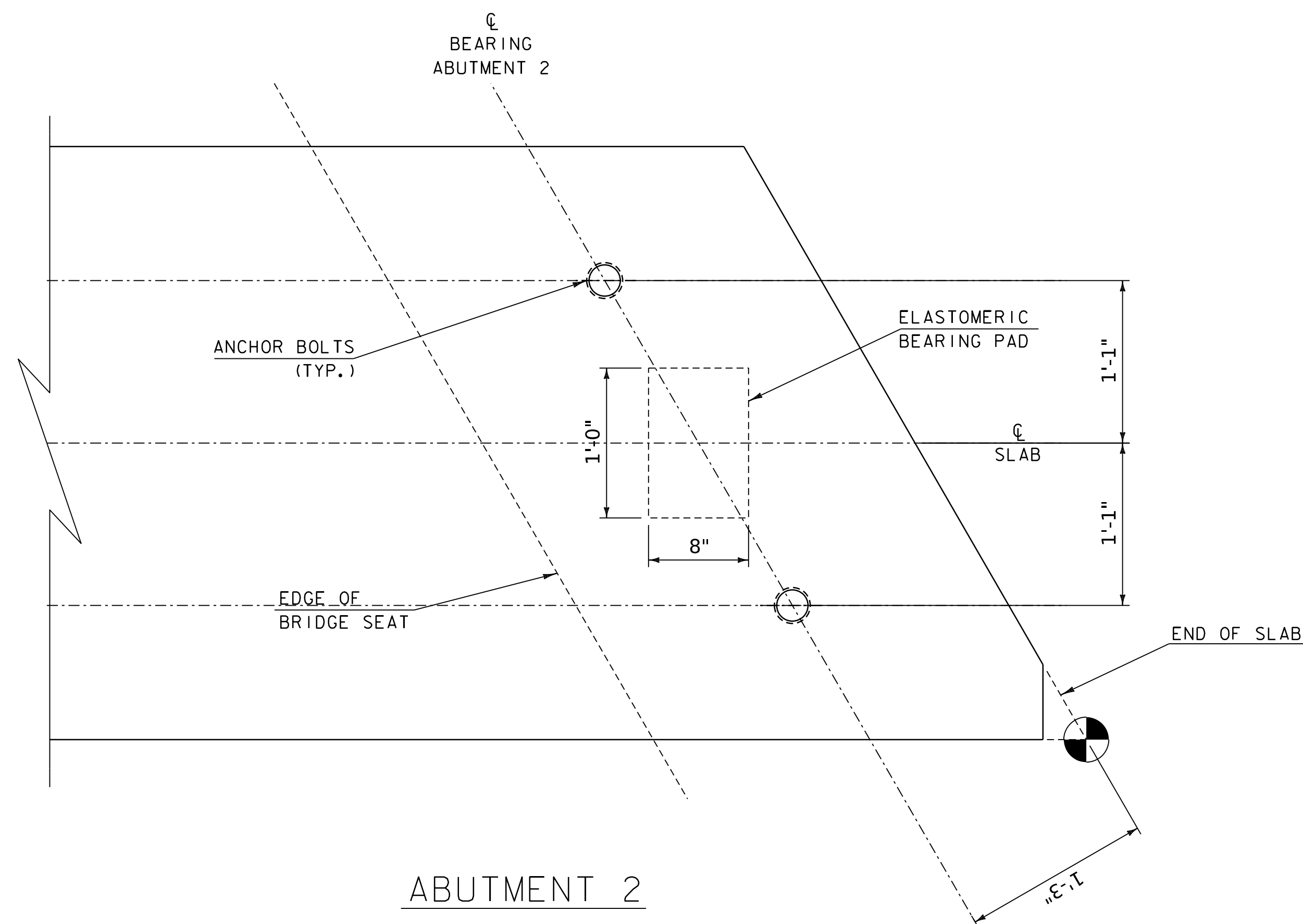
FILE NAME: sl2j634sup.dgn    PLOT DATE: 25-JUL-2024  
PROJECT LEADER: R. YOUNG    DRAWN BY: R. PELLETT  
DESIGNED BY: A. MANN    CHECKED BY: F. BARROWS  
CURB REBAR & BLOCKOUT DETAILS    SHEET 24 OF 47





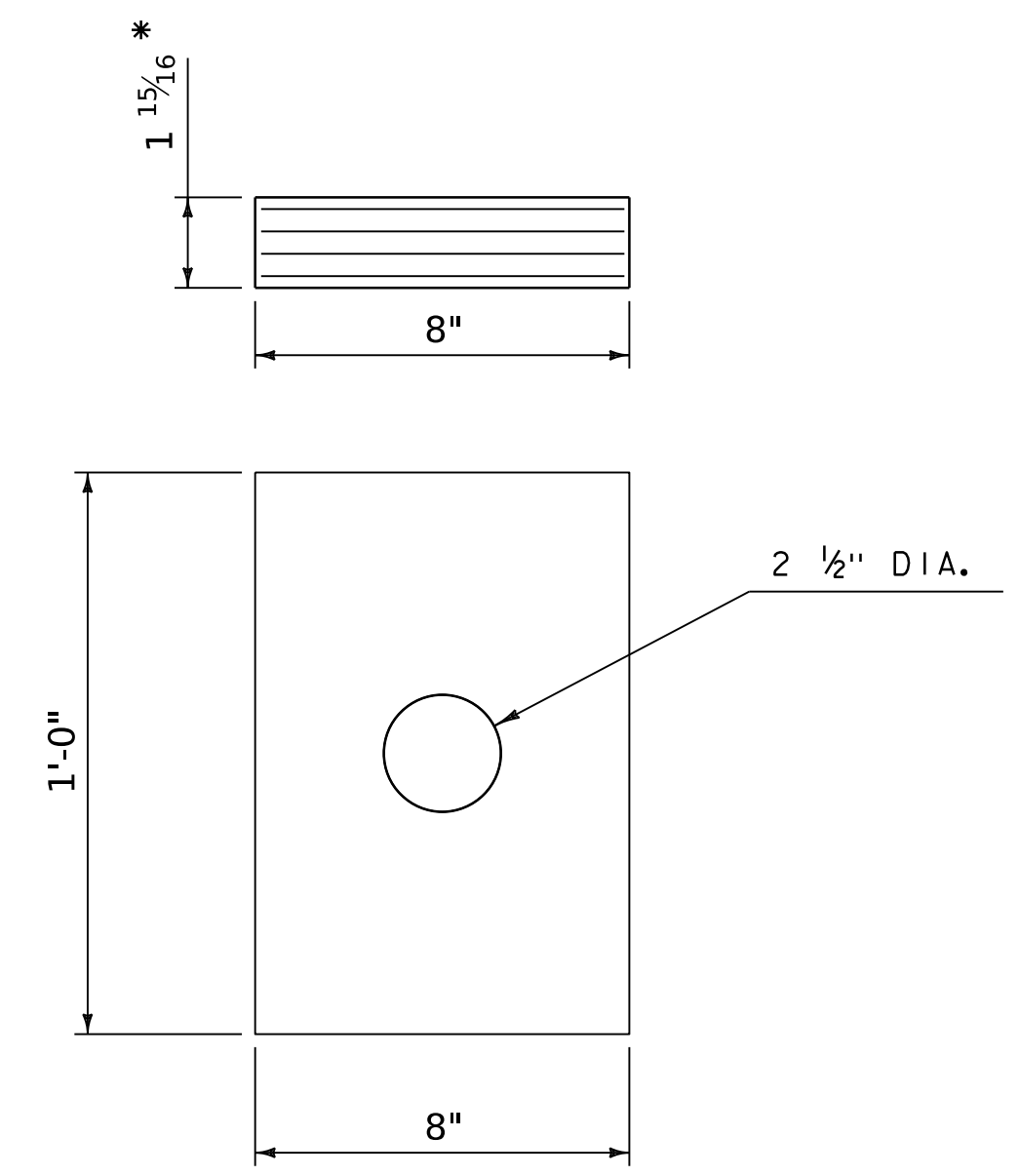
ABUTMENT 1  
BEARING PAD PLACEMENT DETAIL

SCALE: 1 1/2" = 1' - 0"



ABUTMENT 2  
BEARING PAD PLACEMENT DETAIL

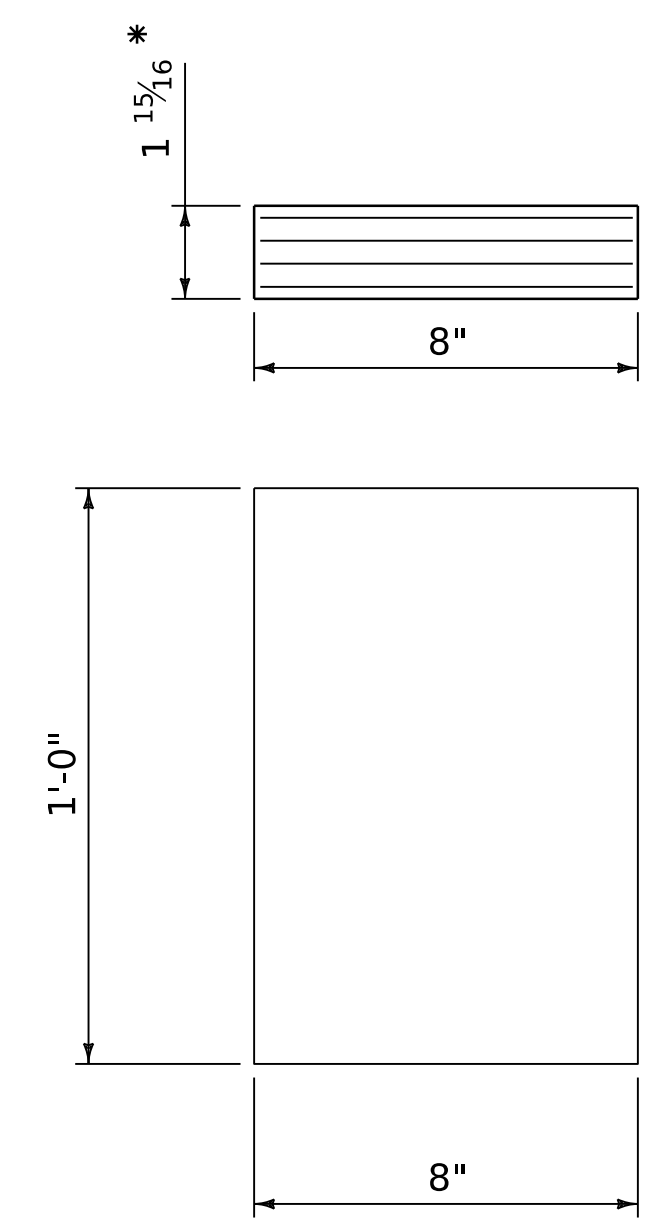
SCALE: 1 1/2" = 1' - 0"



ABUTMENT 1  
ELASTOMERIC BEARING DETAIL

SCALE: 3" = 1' - 0"

- \* 2 - 1/4" EXTERIOR LAYERS OF ELASTOMER
- 3 - 3/8" INTERIOR LAYERS OF ELASTOMER
- 4 - 14 GAUGE STEEL



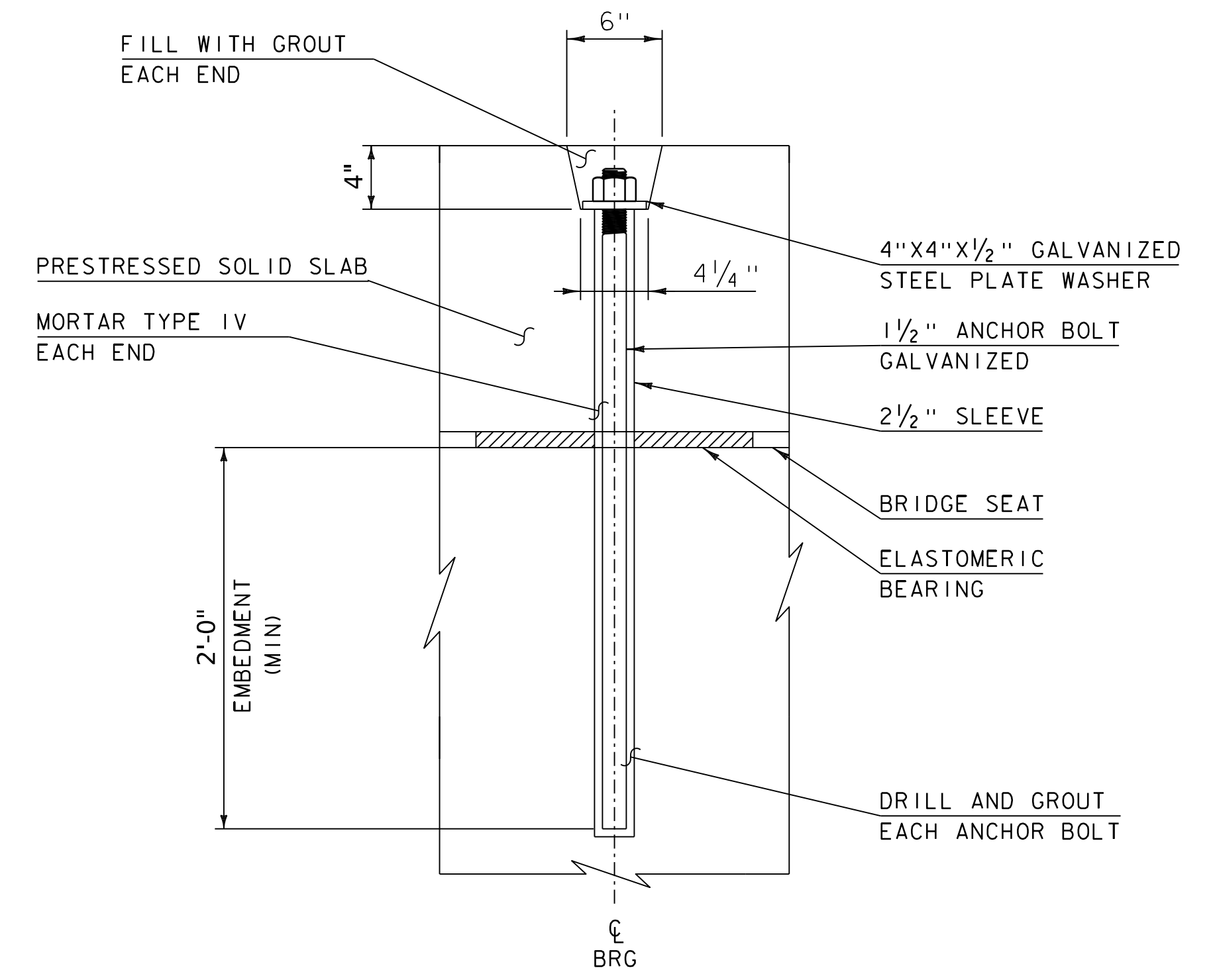
ABUTMENT 2  
ELASTOMERIC BEARING DETAIL

SCALE: 3" = 1' - 0"

- \* 2 - 1/4" EXTERIOR LAYERS OF ELASTOMER
- 3 - 3/8" INTERIOR LAYERS OF ELASTOMER
- 4 - 14 GAUGE STEEL

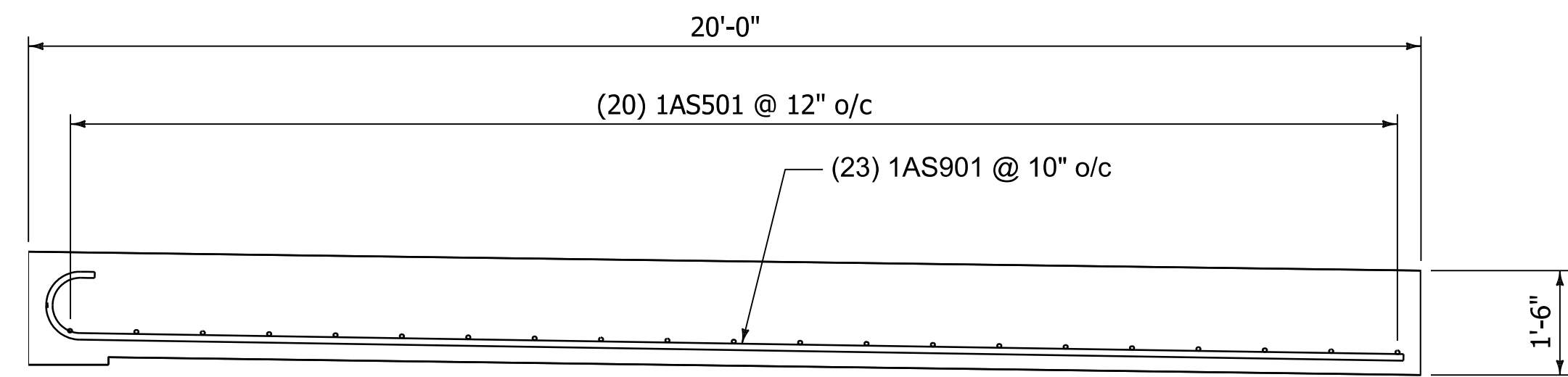
**BEARING NOTES:**

1. ANCHOR BOLTS TO BE ASTM F1554 GR. 105.
2. GROUT ANCHOR BOLTS INTO THE SLEEVES ON THE FIXED END. BEFORE THE GROUT CURES, PLACE THE WASHER PLATE AND INSTALL THE NUT ON TOP AND HAND TIGHTEN.
3. PAYMENT FOR BEAM ANCHORAGE, INCLUDING DRILLING, GROUTING, ALL MATERIALS, LABOR, AND INCIDENTALS WILL BE INCLUDED IN THE UNIT PRICE BID FOR "PRESTRESSED CONCRETE SOLID SLABS".
4. THE ELASTOMER WAS DESIGNED WITH A SHEAR MODULUS OF 120 PSI +/- 10% AND A DUROMETER HARDNESS OF 50.
5. SHIMS MAY BE REQUIRED TO ADJUST FOR FINAL GRADE AND CAMBER TOLERANCES. THE CONTRACTOR SHALL HAVE ONE 1/4" THICK STEEL SHIM AVAILABLE PER BEARING PAD. THE SHIMS SHALL BE 1/4" LARGER THAN THE ELASTOMERIC BEARING ON ALL SIDES. THE COST OF THE SHIMS WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 531.17 "BEARING DEVICE ASSEMBLY, STEEL REINFORCED ELASTOMERIC PAD".
7. DESIGN SERVICE LOADS PER BEARING: (DESIGN METHOD A)
  - ABUTMENT 1:
  - MAX DEAD LOAD: 17.7 KIP
  - MAX LIVE LOAD: 19.4 KIP
  - ABUTMENT 2:
  - MAX DEAD LOAD: 35.4 KIP
  - MAX LIVE LOAD: 38.7 KIP



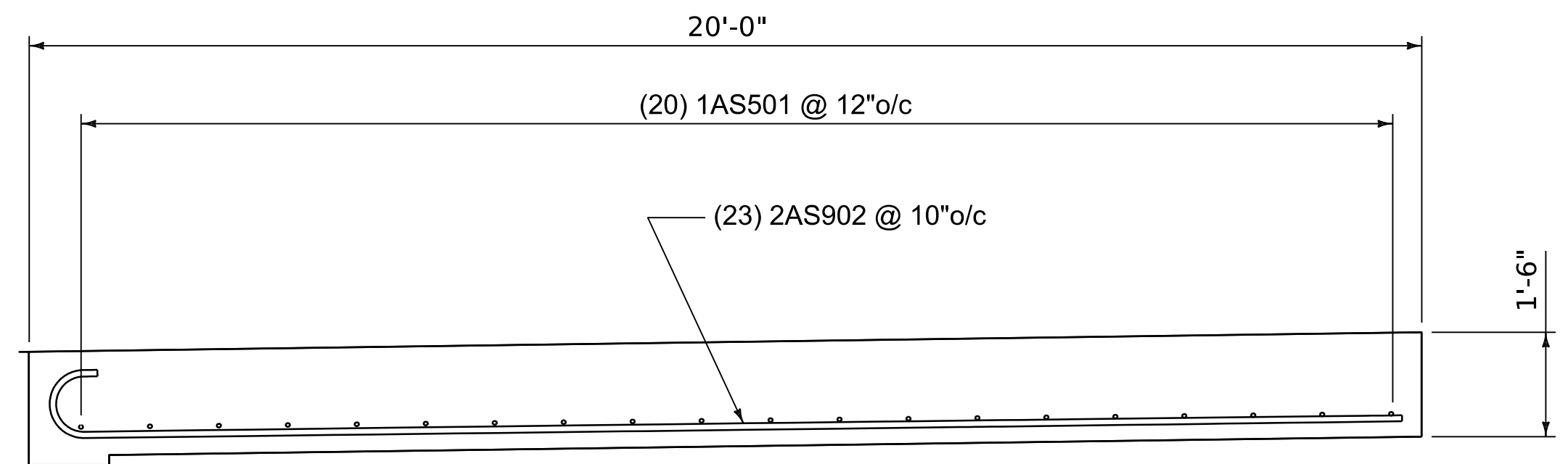
PRESTRESSED BEAM  
ANCHOR DETAIL  
NOT TO SCALE

PROJECT NAME: JERICO	PLOT DATE: 25-JUL-2024
PROJECT NUMBER: BF 0209(10)	DRAWN BY: R. PELLETT
FILE NAME: sl2j634sup.dgn	CHECKED BY: F. BARROWS
PROJECT LEADER: R. YOUNG	SHEET 25 OF 47
DESIGNED BY: A. MANN	
BEARING DETAILS	



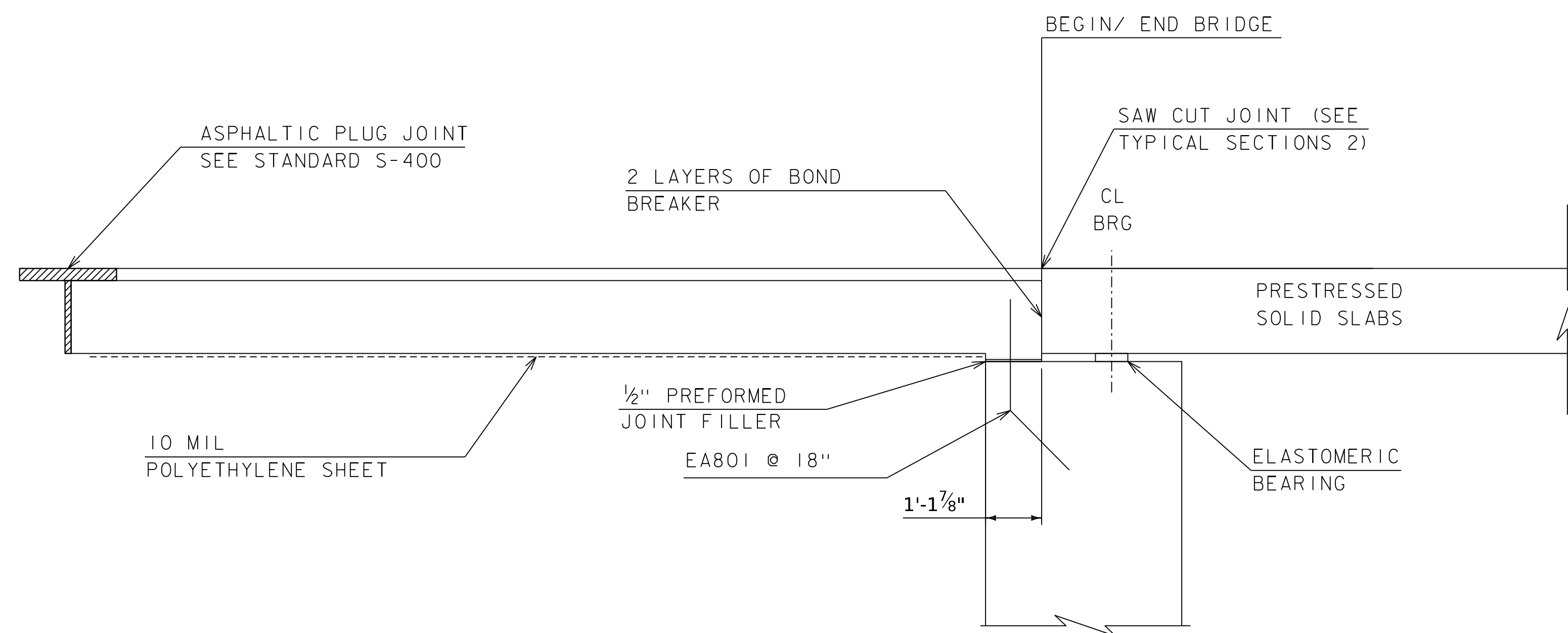
**APPROACH SLAB 1 REINFORCING**

SCALE  $\frac{3}{8}$ " = 1'-0"



**APPROACH SLAB 2 REINFORCING**

SCALE  $\frac{3}{8}$ " = 1'-0"

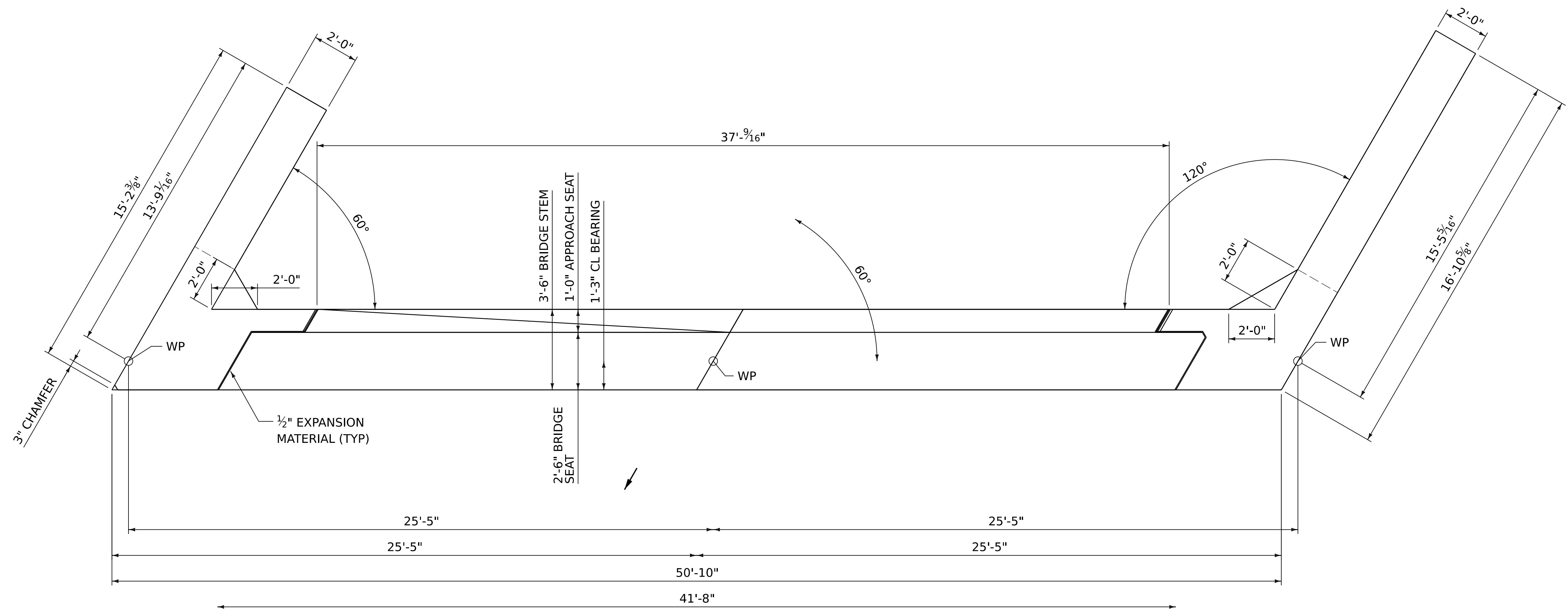


**APPROACH SLAB TYPICAL SECTION**

SCALE  $\frac{3}{8}$ " = 1'-0"

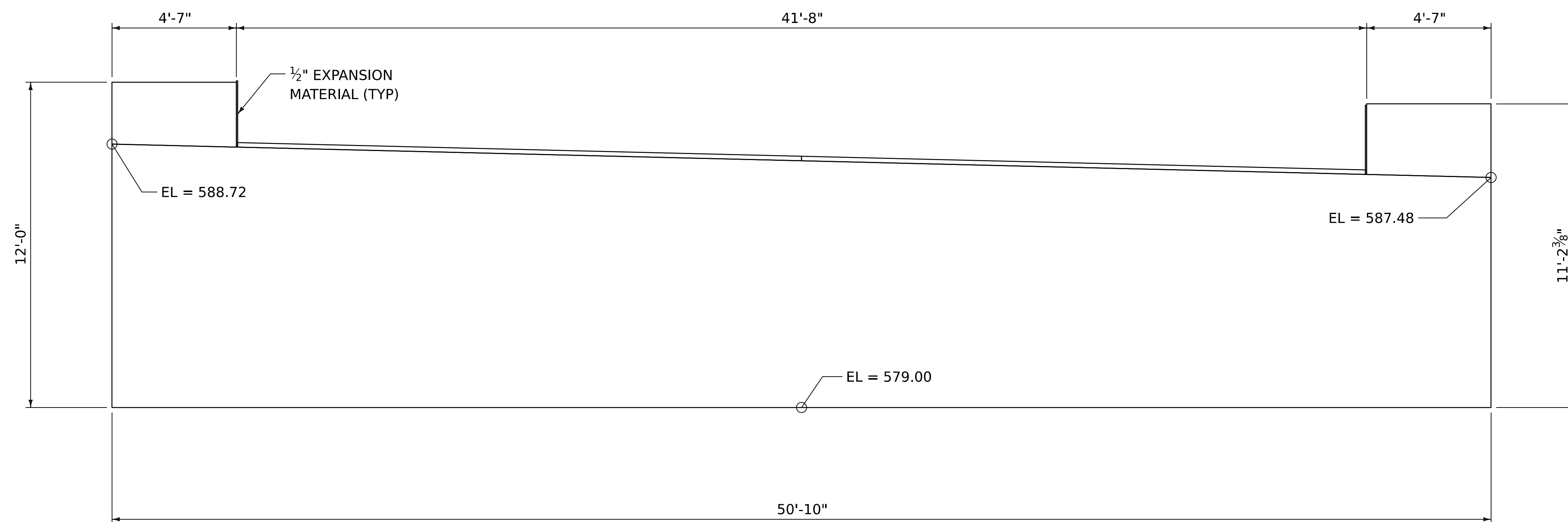
(CUT ALONG SKEW)

PROJECT NAME:	<b>JERICHO</b>	PLOT DATE:	25-JUL-2024
PROJECT NUMBER:	<b>BF 0209(10)</b>	DRAWN BY:	M. LONGSTREET
FILE NAME:	FileName	CHECKED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	APPROACH SLAB DETAILS	SHEET 26 OF 47
DESIGNED BY:	A. MANN		



**ABUTMENT 1 PLAN**

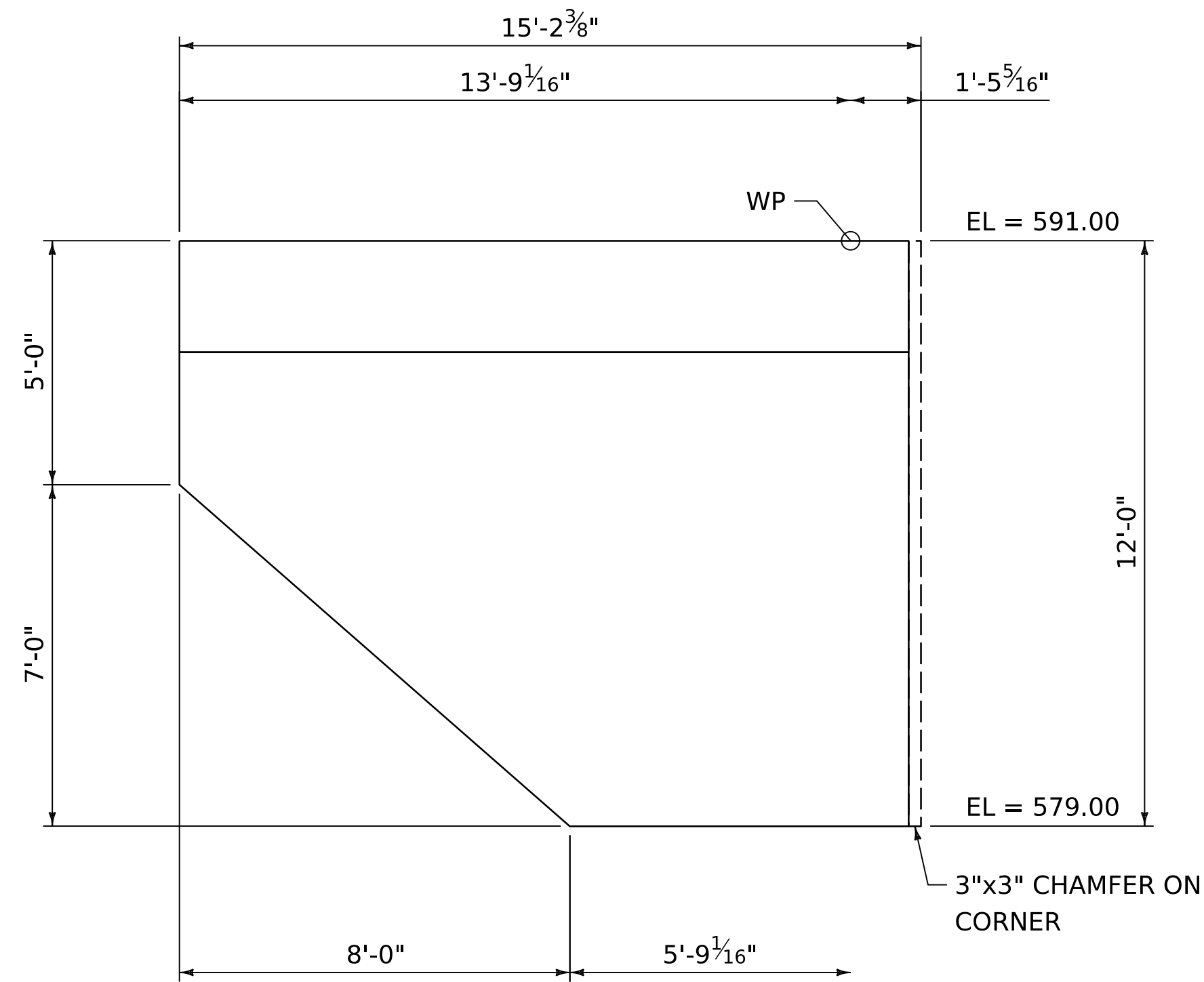
3/8"=1'-0"



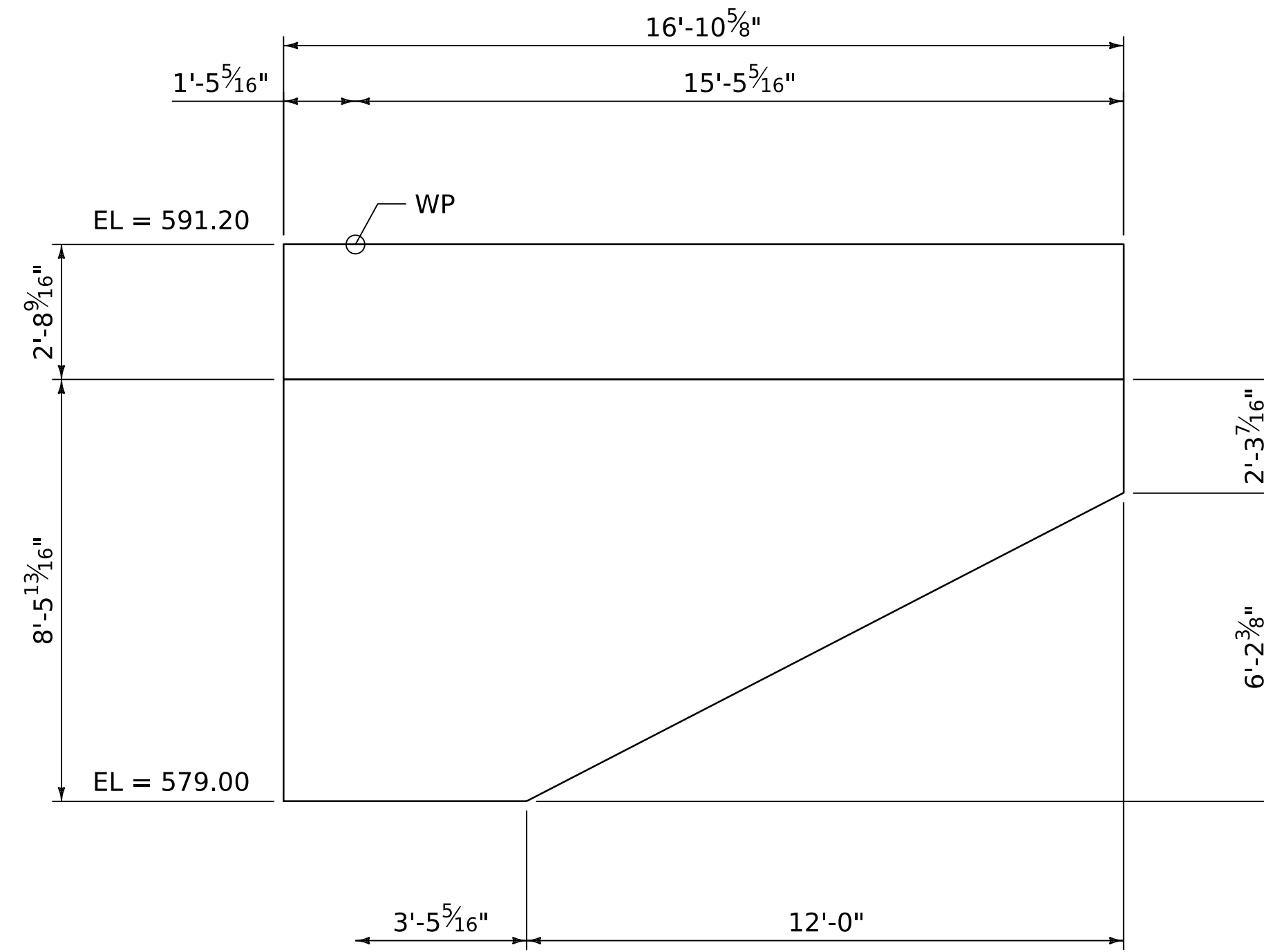
**ABUTMENT 1 ELEVATION**

3/8"=1'-0"

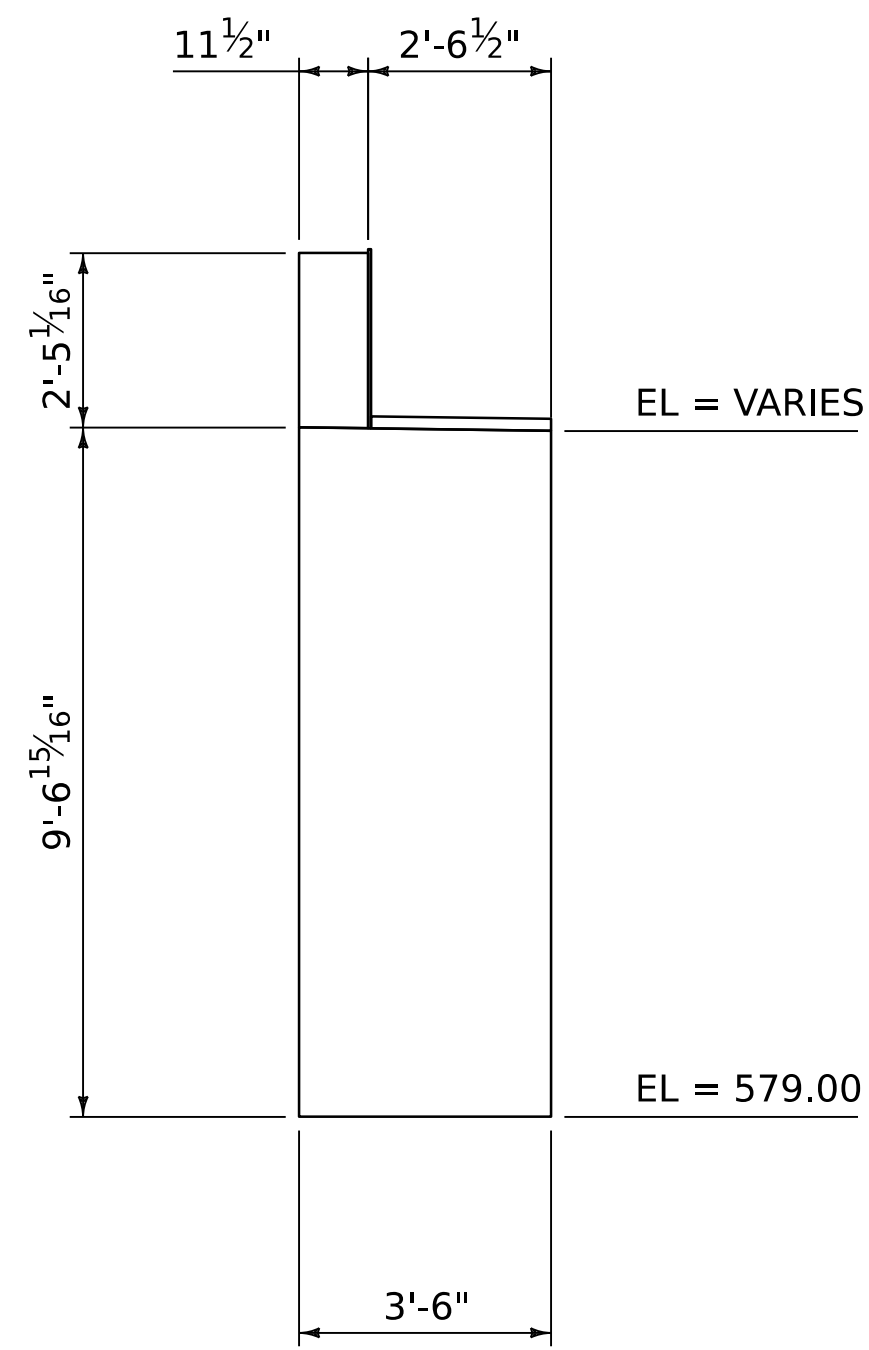
PROJECT NAME:	JERICO	PLOT DATE:	25-JUL-2024
PROJECT NUMBER:	BF 0209(10)	DRAWN BY:	M. LONGSTREET
FILE NAME:	s12j634subRebar	DESIGNED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	CHECKED BY:	F. BARROWS
DESIGNED BY:	A. MANN	SHEET	27 OF 47
ABUTMENT #1 DETAILS 1			



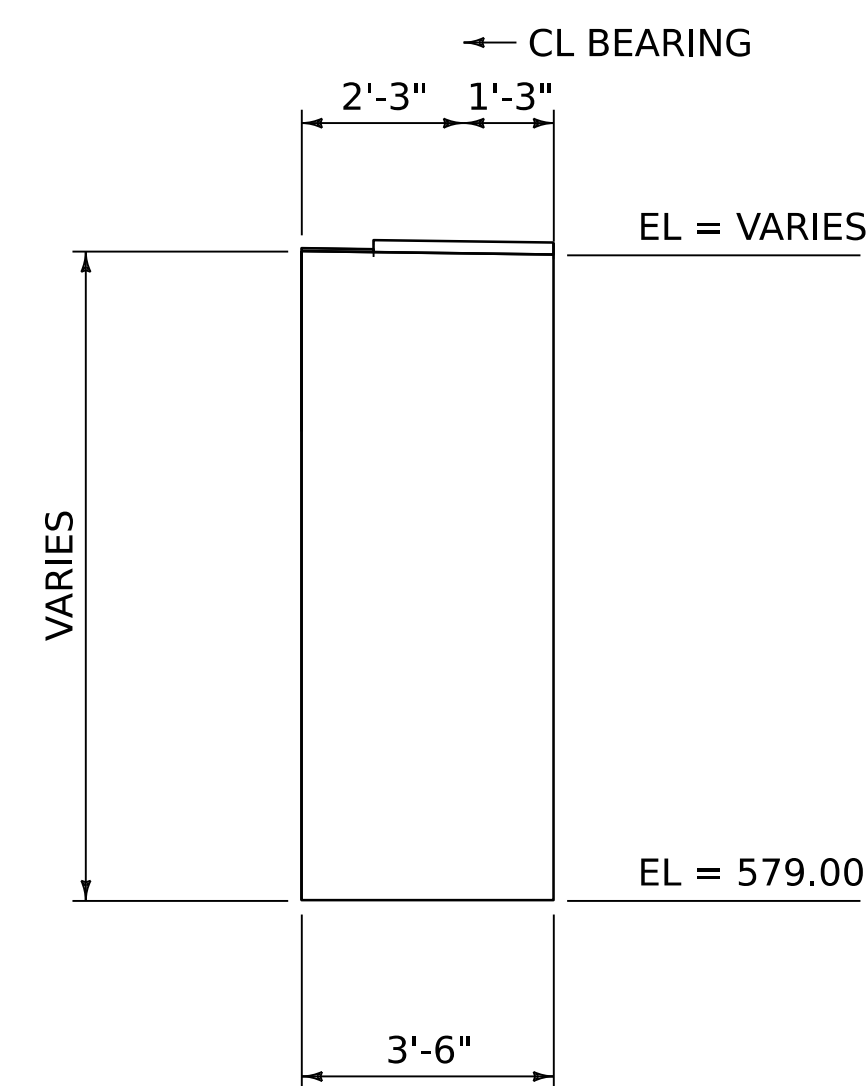
**WINGWALL 2 ELEVATION**  
3/8"=1'-0"



**WINGWALL 1 ELEVATION**  
SCALE: 3/8"=1'-0"

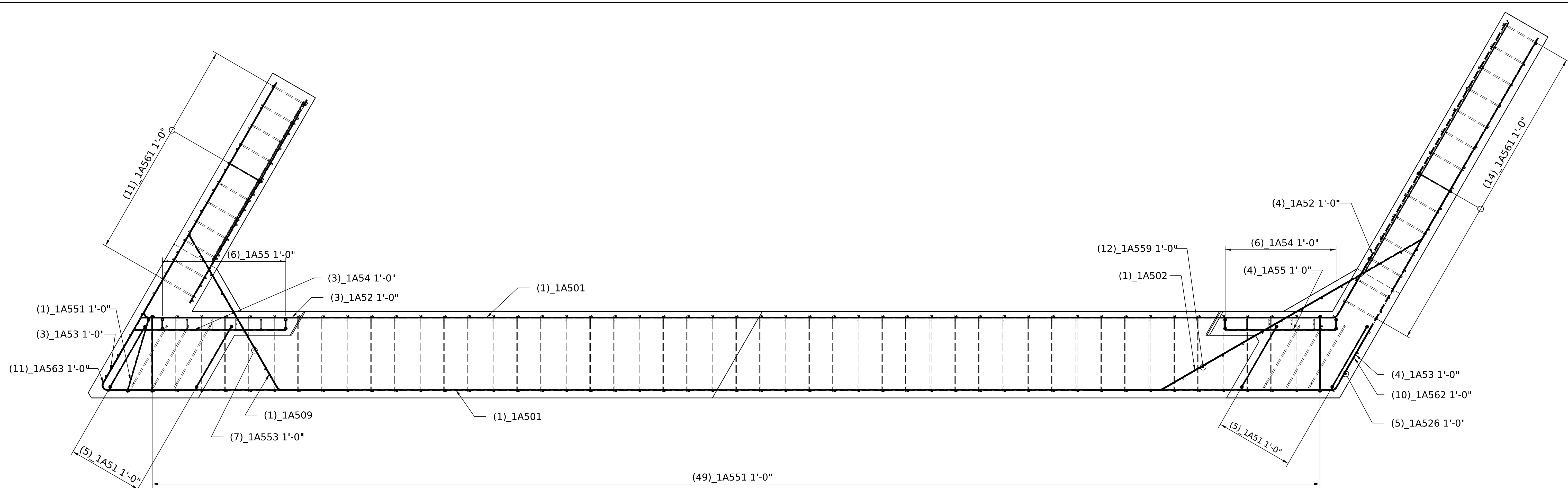


**ABUTMENT #1 FASCIA**  
3/8"=1'-0"



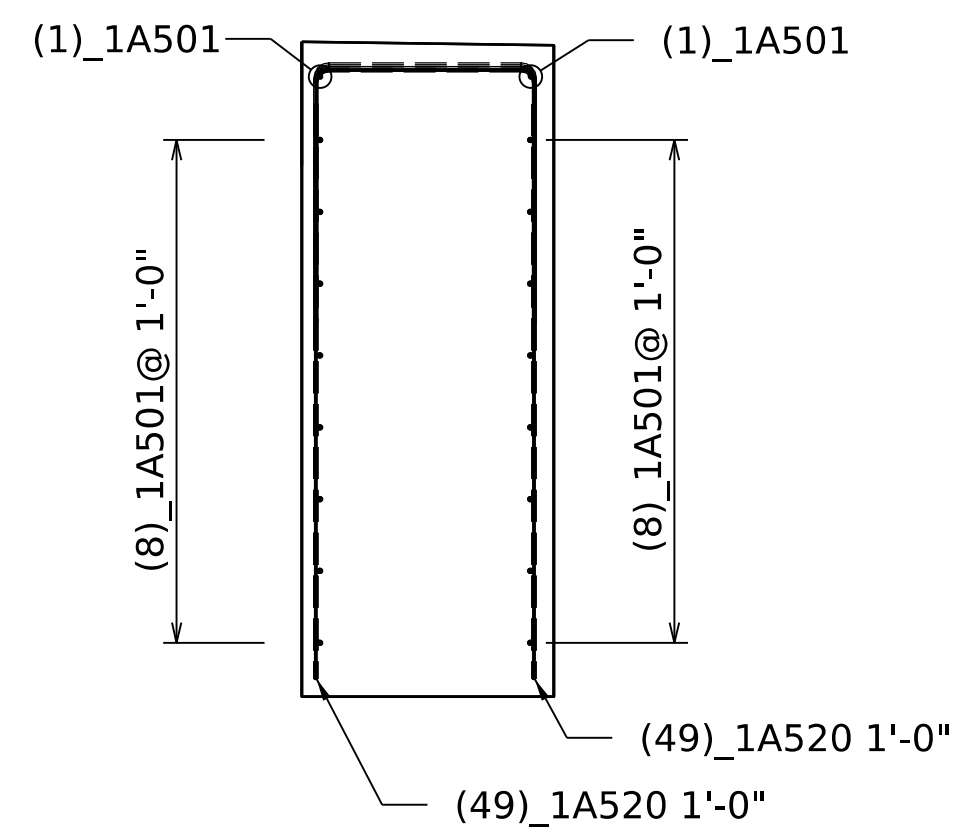
**ABUTMENT 1 TYPICAL**  
3/8"=1'-0"

PROJECT NAME:	JERICHO	PLOT DATE:	25-JUL-2024
PROJECT NUMBER:	BF 0209(10)	DRAWN BY:	M. LONGSTREET
FILE NAME:	s12j634subRebar	CHECKED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	SHEET	28 OF 47
DESIGNED BY:	A. MANN	ABUTMENT #1 DETAILS 2	



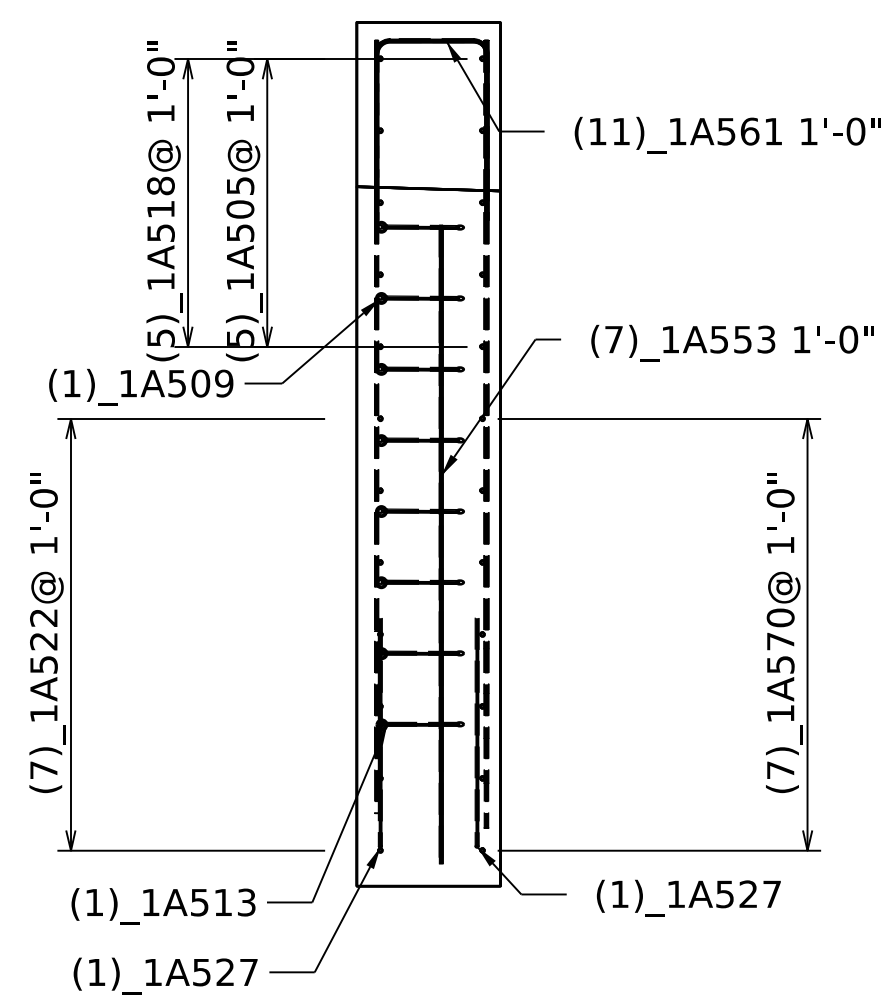
ABUTMENT #1 REINFORCING PLAN VIEW

SCALE 1/2" = 1'-0"



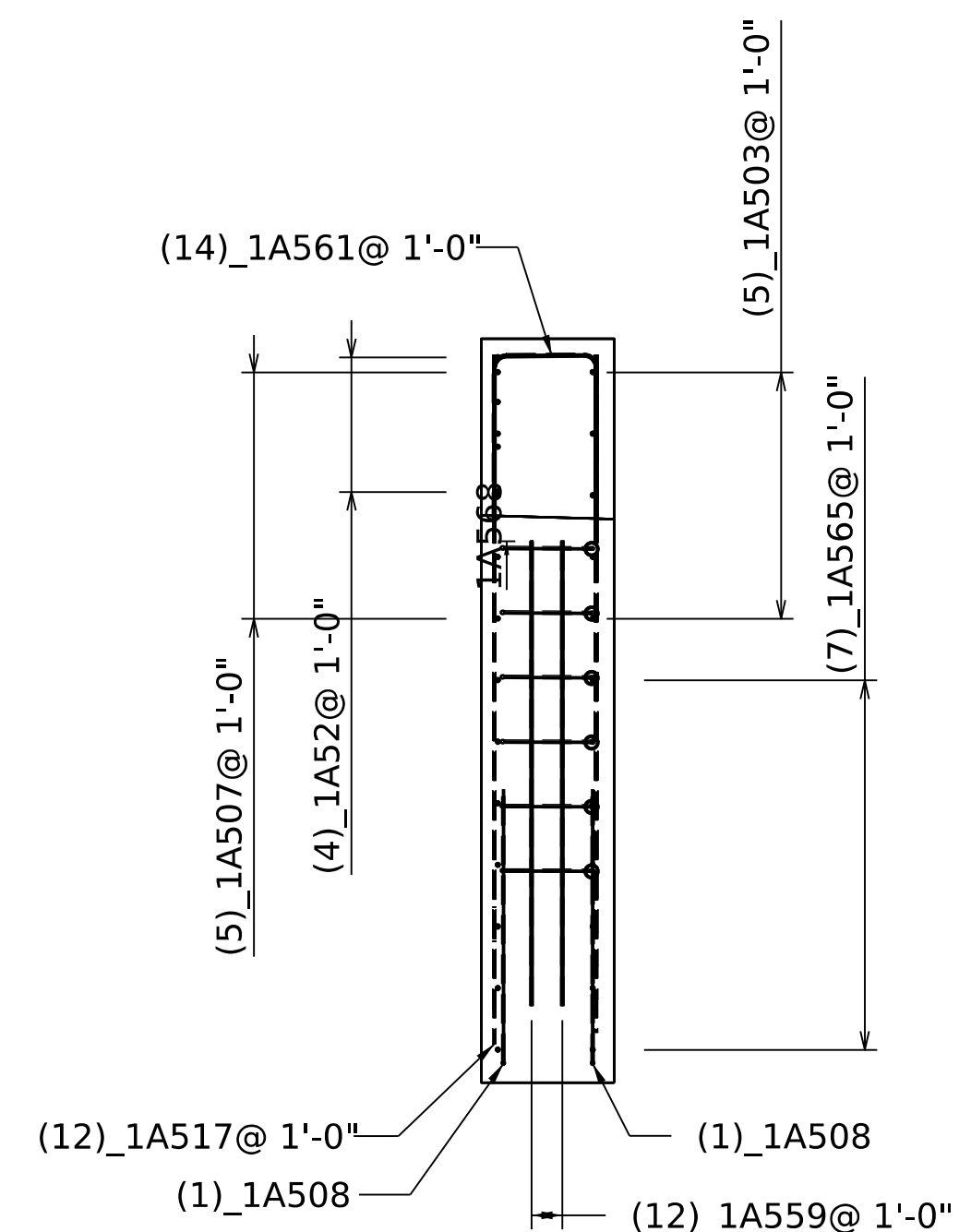
ABUTMENT #1 TYPICAL

SCALE 3/8" = 1'-0"



WINGWALL #1 TYPICAL

SCALE 3/8" = 1'-0"



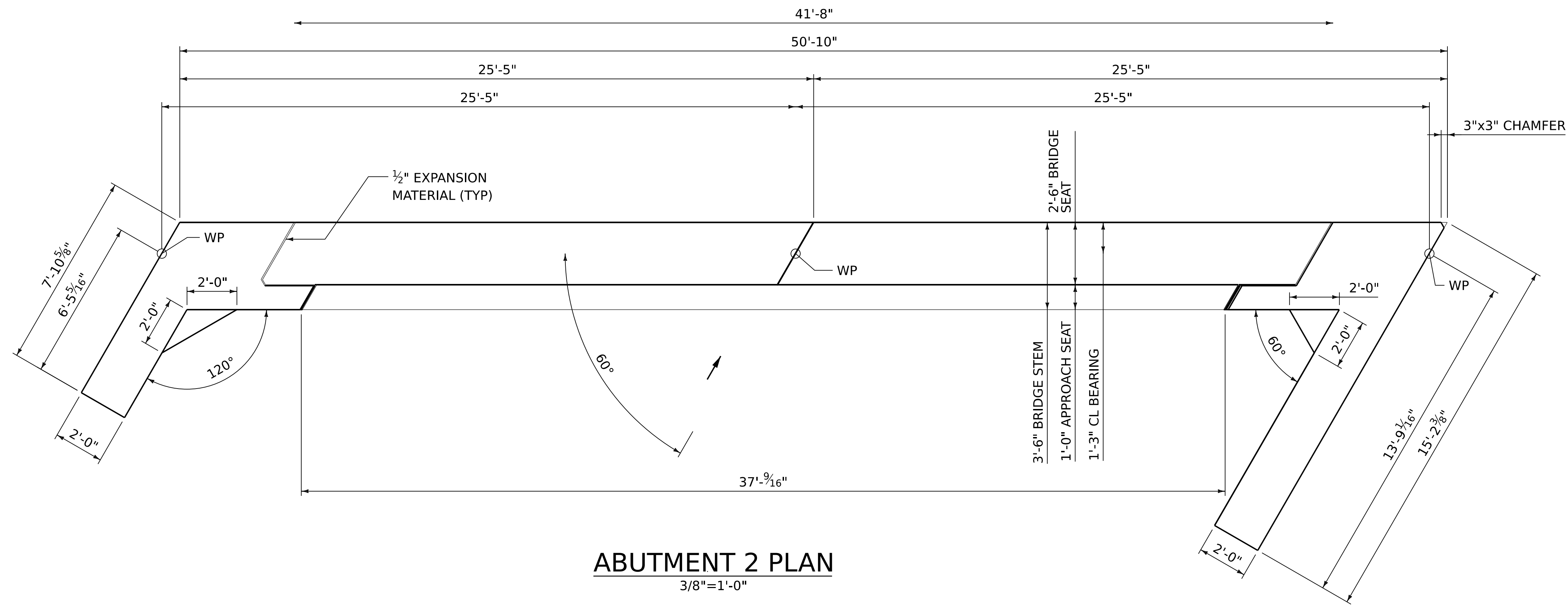
WINGWALL #2 TYPICAL

SCALE 3/8" = 1'-0"

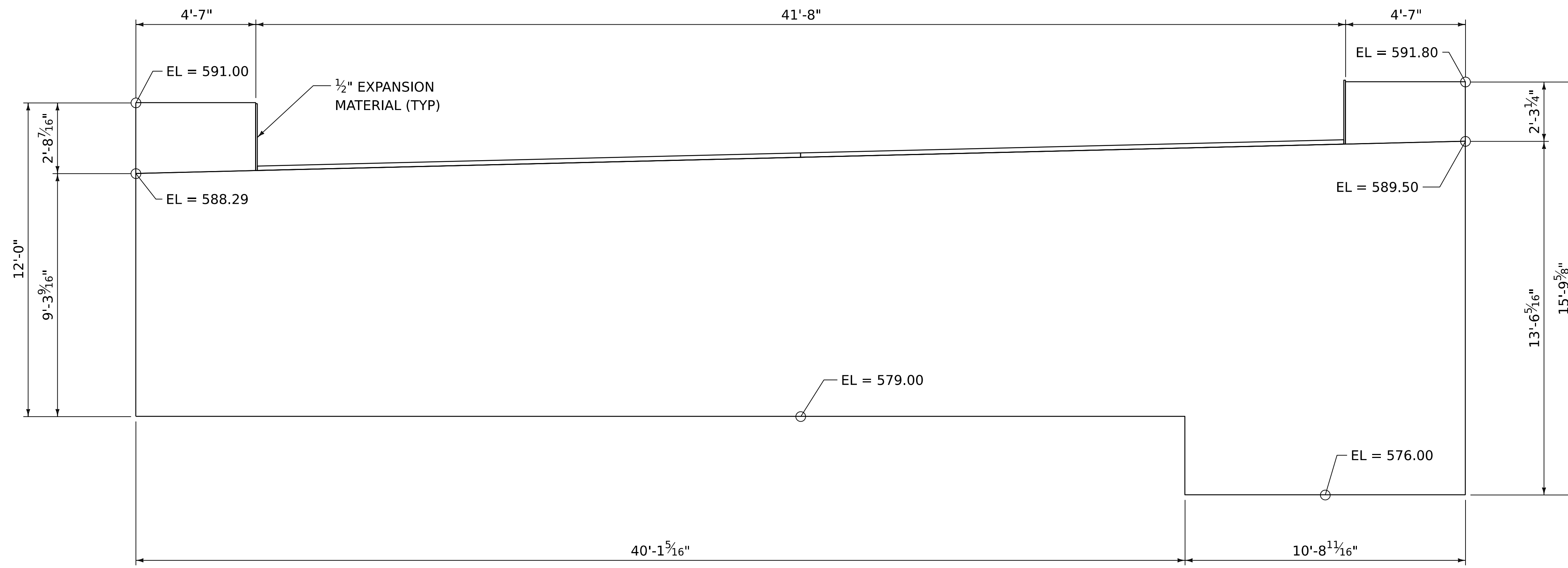
PROJECT NAME: JERICO  
PROJECT NUMBER: BF 0209(10)

FILE NAME: FileName  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: A. MANN  
ABUTMENT #1 REINFORCING

PLOT DATE: 25-JUL-2024  
DRAWN BY: M. LONGSTREET  
CHECKED BY: F. BARROWS  
SHEET 29 OF 47

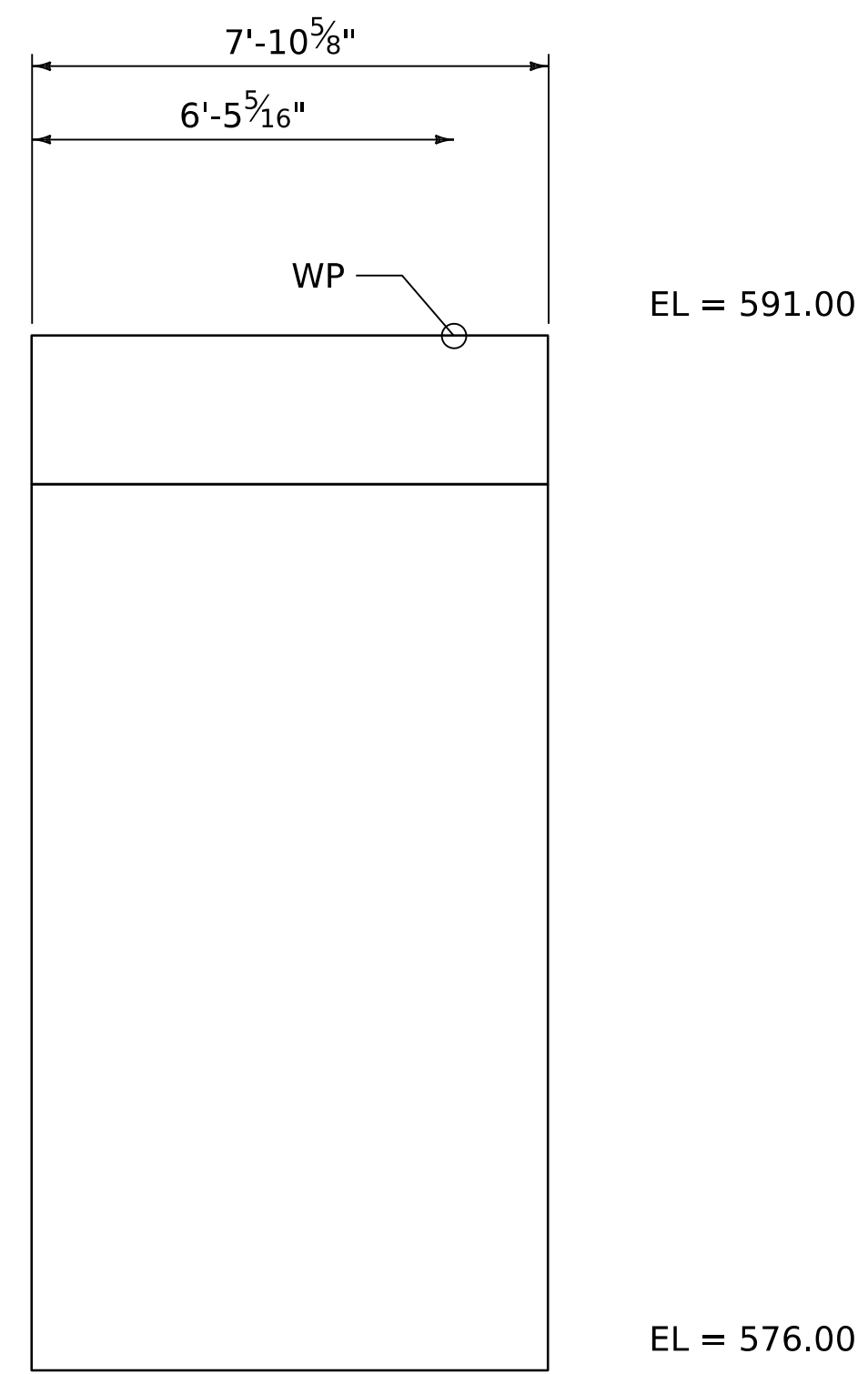


**ABUTMENT 2 PLAN**  
3/8"=1'-0"

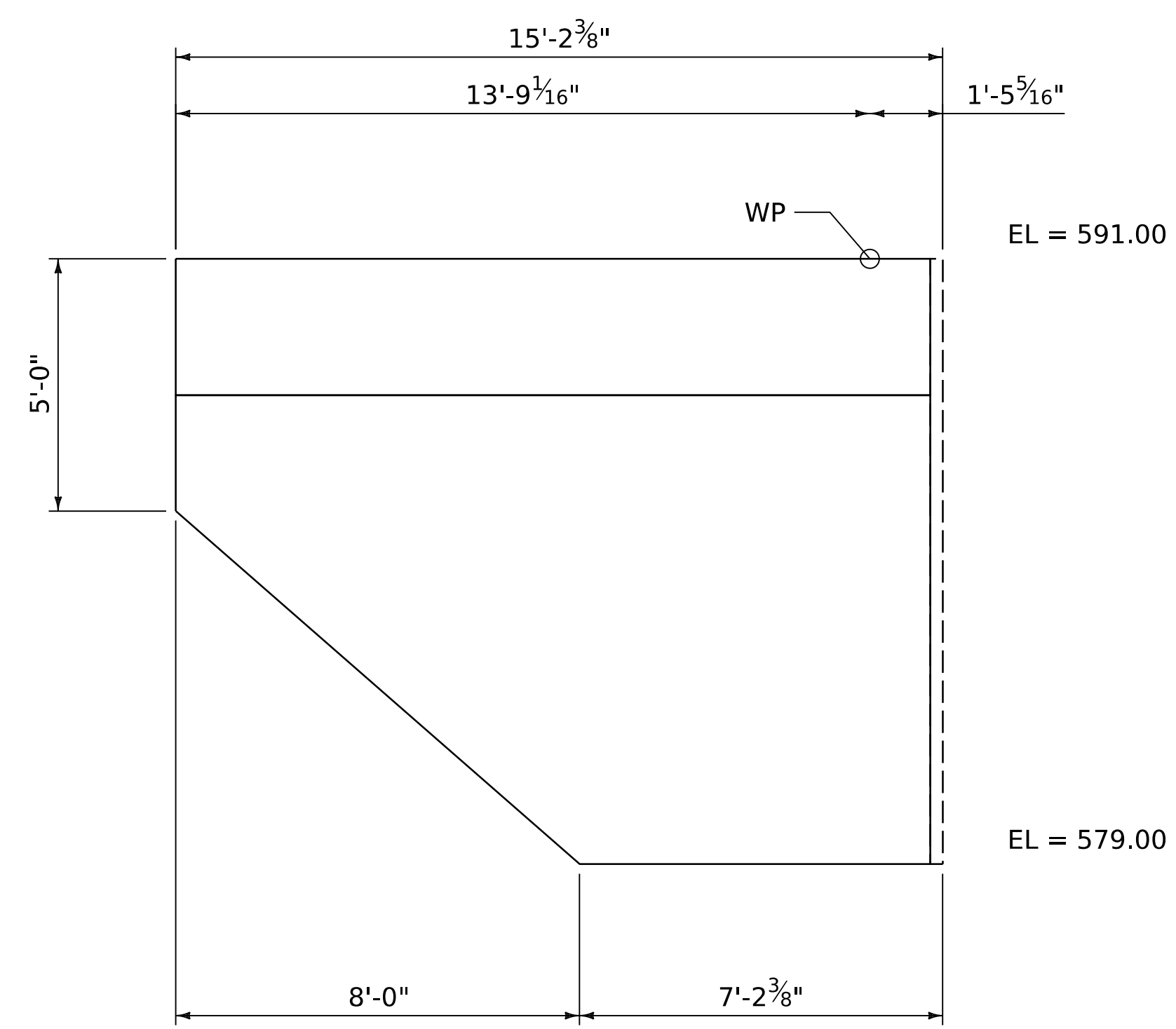


**ABUTMENT 2 ELEVATION**  
3/8"=1'-0"

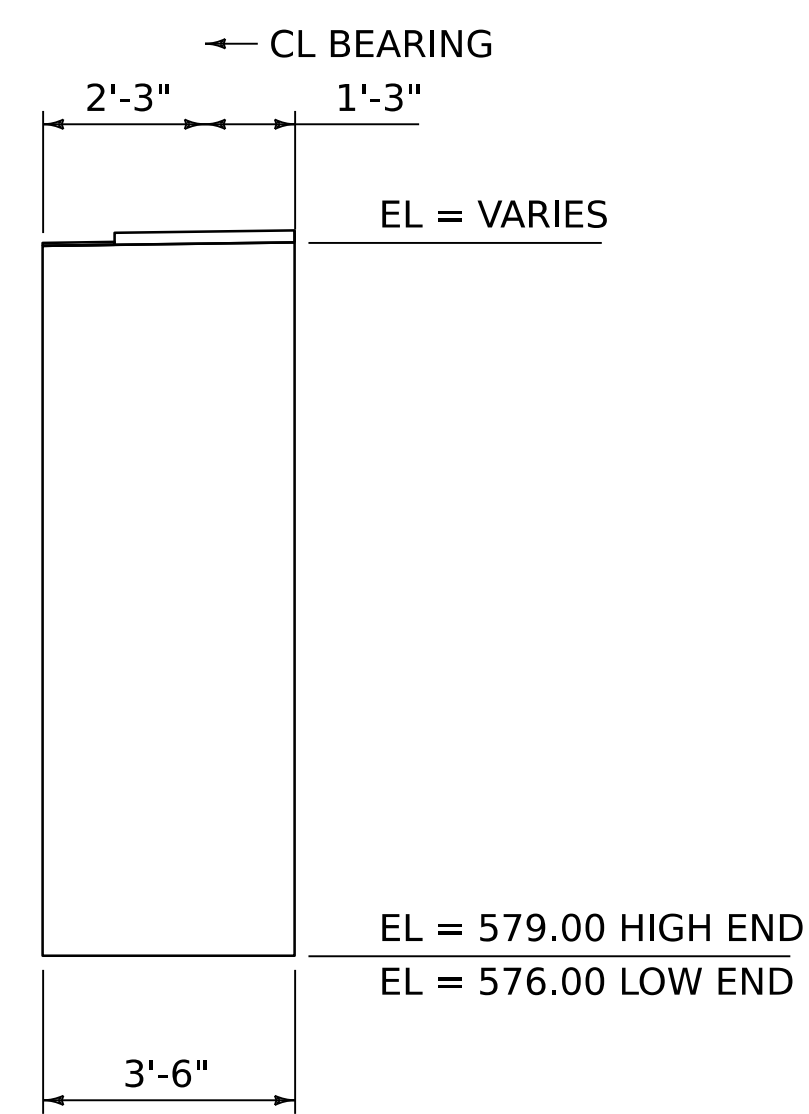
PROJECT NAME:	JERICO	PLOT DATE:	25-JUL-2024
PROJECT NUMBER:	BF 0209(10)	DRAWN BY:	M. LONGSTREET
FILE NAME:	s12j634subRebar	CHECKED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	SHEET	30 OF 47
DESIGNED BY:	A. MANN	ABUTMENT #2 DETAILS 1	



**WINGWALL 3 ELEVATION**  
3/8"=1'-0"

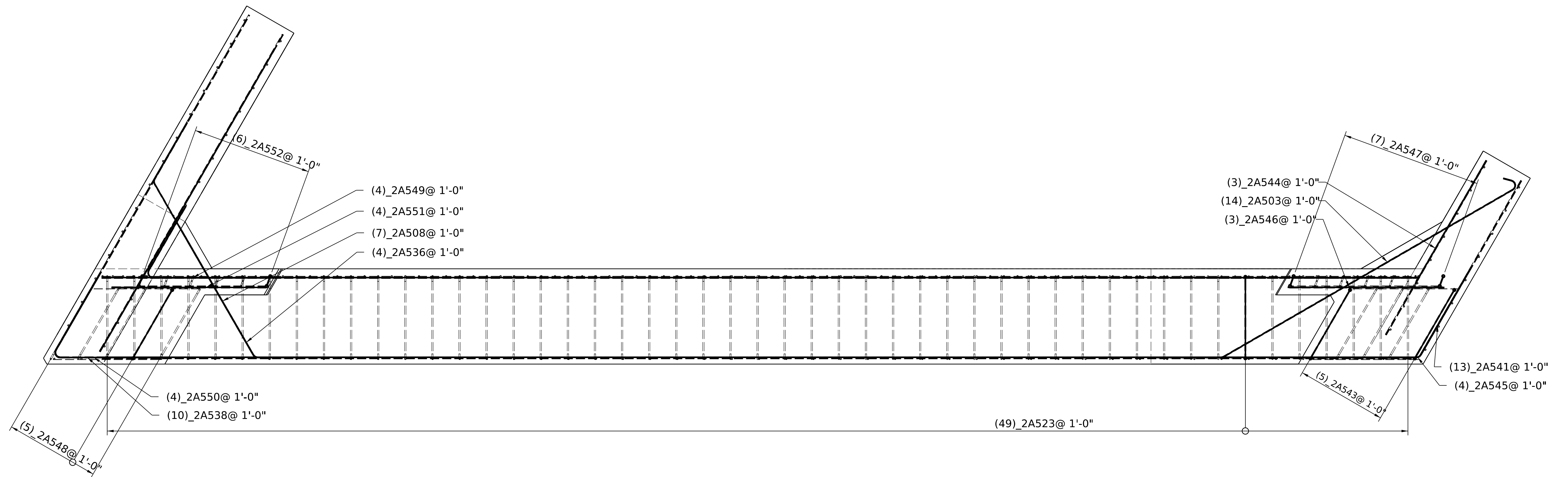


**WINGWALL 4 ELEVATION**  
3/8"=1'-0"



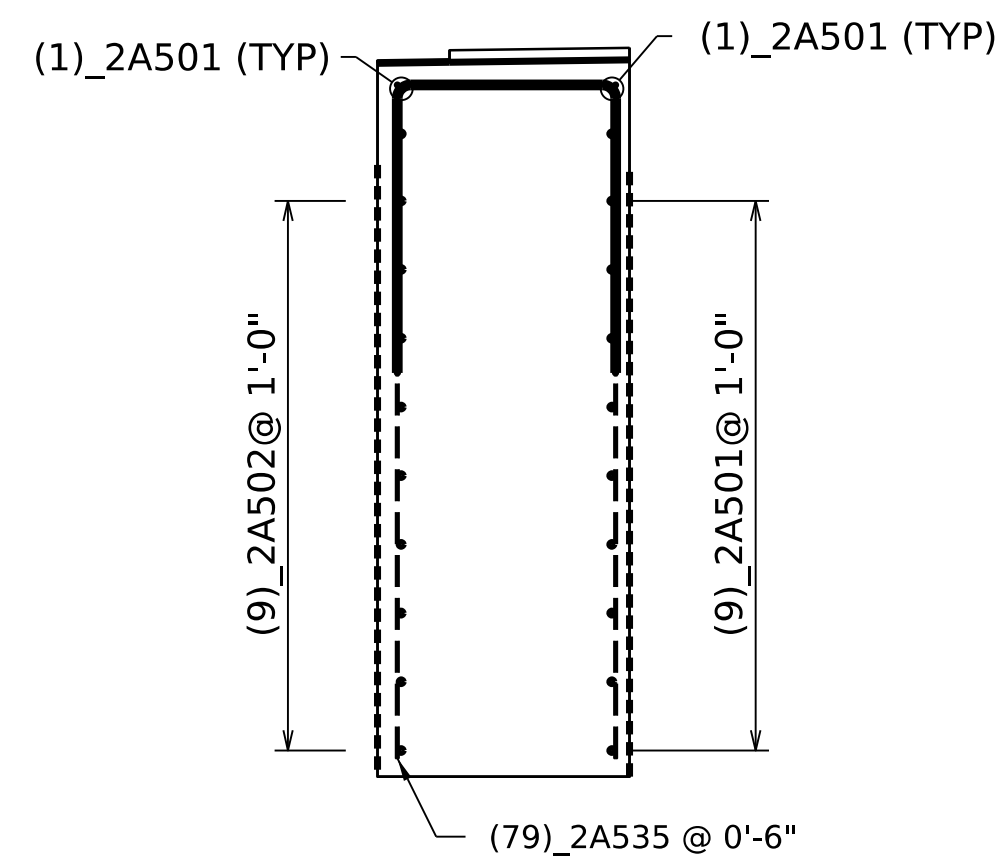
**ABUTMENT 2 TYPICAL**  
3/8"=1'-0"

PROJECT NAME:	JERICO	PLOT DATE:	25-JUL-2024
PROJECT NUMBER:	BF 0209(10)	DRAWN BY:	M. LONGSTREET
FILE NAME:	s12j634subRebar	CHECKED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	ABUTMENT #2 DETAILS 2	SHEET 31 OF 47
DESIGNED BY:	A. MANN		



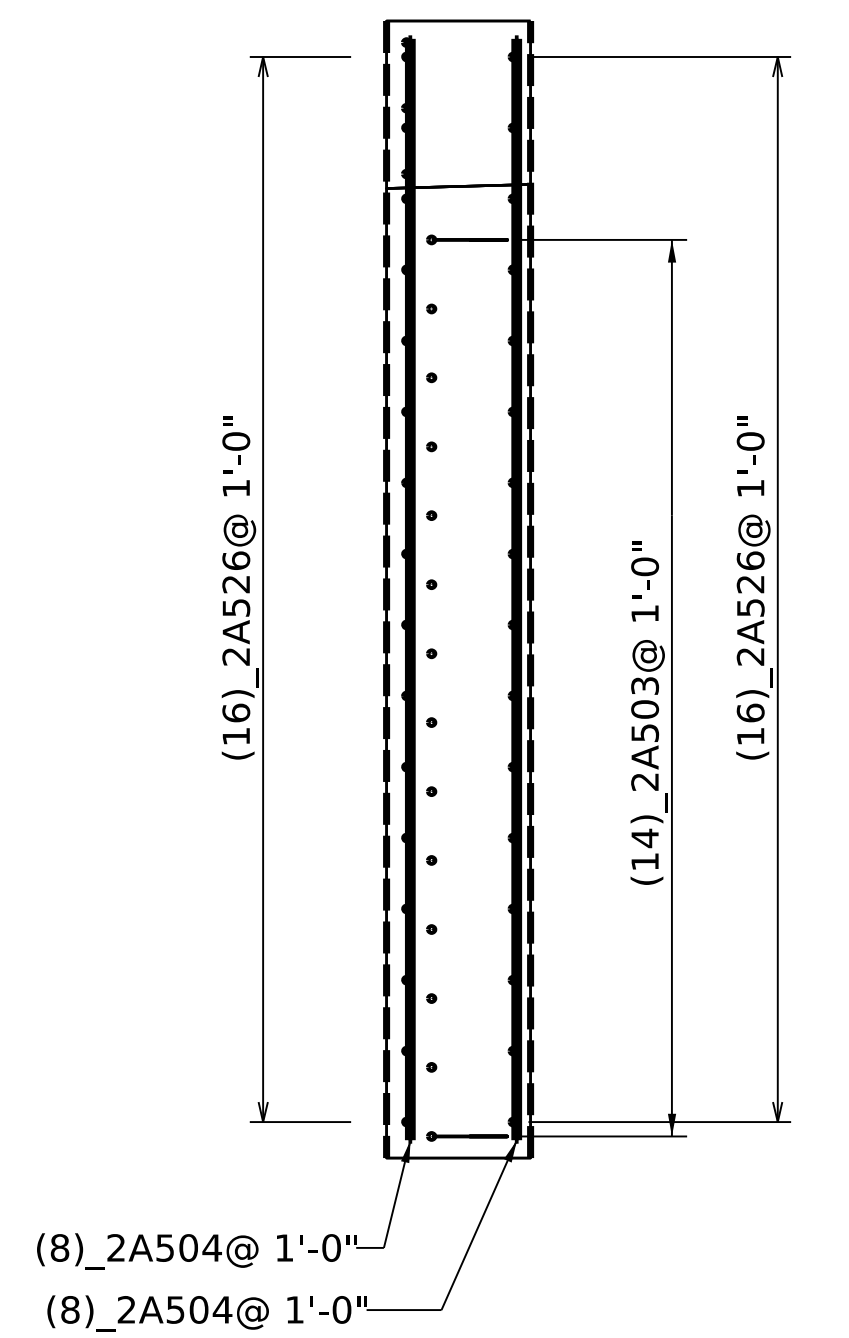
ABUTMENT #2 REINFORCING PLAN VIEW

SCALE 1/2" = 1'-0"



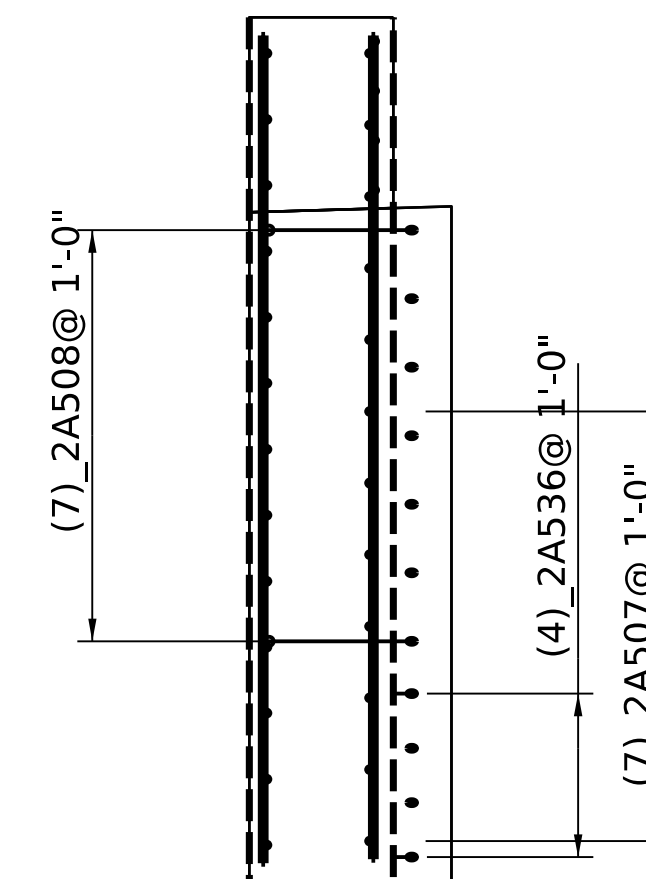
ABUTMENT #2 TYPICAL

SCALE 3/8" = 1'-0"



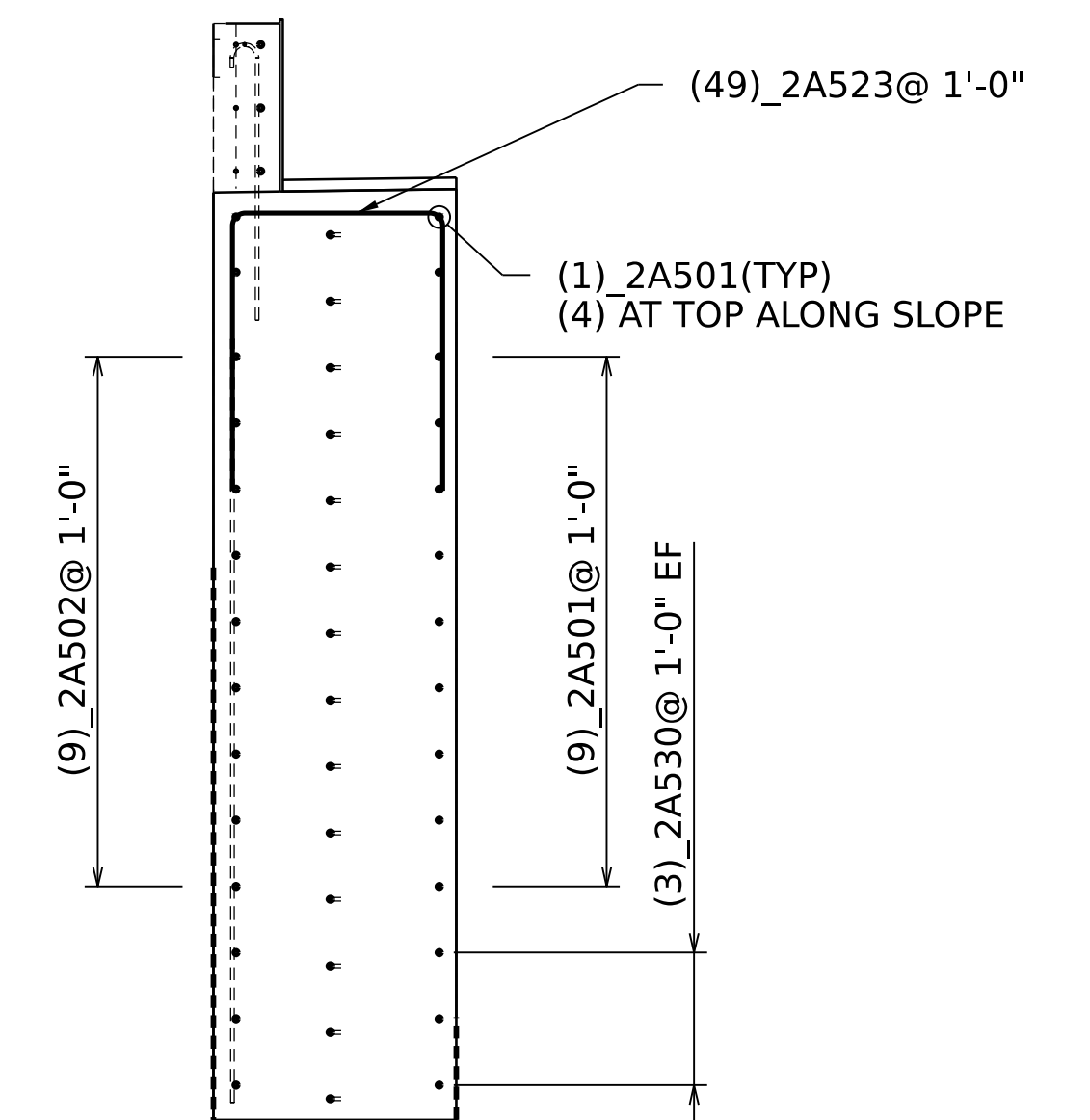
WINGWALL #3 TYPICAL

SCALE 3/8" = 1'-0"



WINGWALL #4 TYPICAL

SCALE 3/8" = 1'-0"



ABUTMENT #2 AT FASCIA

SCALE 3/8" = 1'-0"

PROJECT NAME:	JERICHO	PLOT DATE:	25-JUL-2024
PROJECT NUMBER:	BF 0209(10)	DRAWN BY:	M. LONGSTREET
FILE NAME:	FileName	DESIGNED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	CHECKED BY:	F. BARROWS
ABUTMENT #2 REINFORCING		SHEET	32 OF 47





CONCRETE PART	REINFORCING BAR LIST																		COATING/ LEVEL/ GRADE	WEIGHT					
	QTY	SIZE	MARK	SHAPE	LENGTH	#	A	B	C	D	E	F	G	H	J	K	O	R			NOTE	VC			
ConcreteAbutment2	4	5	2A501		48'-3"			48'-3"													B	60	201		
	9	5	2A501		48'-3"			48'-3"														B	60	453	
	9	5	2A502		48'-3"			48'-3"														B	60	453	
	14	5	2A503	T8	15'-6"					2'-6"	12'-6 1/2"			0'-6 1/2"	1'-3"							B	60	226	
	8	5	2A504		15'-3"			15'-3"														B	60	127	
	8	5	2A504		15'-3"			15'-3"														B	60	127	
	10	5	2A505		13'-5"			13'-5"														B	60	140	
	1	5	2A506		13'-2"			13'-2"														B	60	14	
	1	5	2A507		12'-8"			12'-8"														B	60	13	
	7	5	2A508	7	12'-8"				2'-6 1/2"	7'-8"	2'-6 1/2"											B	60	91	
	1	5	2A509		12'-1"			12'-1"														B	60	13	
	6	5	2A510		11'-6"			11'-6"														B	60	72	
	1	5	2A510		11'-6"			11'-6"														B	60	12	
	6	5	2A511		11'-5"			11'-5"														B	60	71	
	1	5	2A512		11'-1"			11'-1"														B	60	12	
	10	5	2A513		11'-0"			11'-0"														B	60	115	
	20	5	2A514		11'-0"			11'-0"														B	60	229	
	1	5	2A515		10'-11"			10'-11"														S	B	60	11
	1	5	2A516		10'-0"			10'-0"														+	B	60	10
	1	5	2A516		10'-0"			10'-0"														+	B	60	10
	1	5	2A516		10'-0"			10'-0"														+	B	60	10
	1	5	2A517		9'-2"			9'-2"														+	B	60	10
	1	5	2A518		8'-3"			8'-3"														+	B	60	9
	1	5	2A518		8'-3"			8'-3"														+	B	60	9
	1	5	2A519		7'-5"			7'-5"														+	B	60	8
	1	5	2A520		6'-6"			6'-6"														+	B	60	7
	1	5	2A520		6'-6"			6'-6"														+	B	60	7
	1	5	2A521		5'-8"			5'-8"														+	B	60	6
	1	5	2A522		4'-9"			4'-9"														+	B	60	5
	1	5	2A522		4'-9"			4'-9"														+	B	60	5
	49	5	2A523	17	10'-11"			4'-0 1/2"	3'-1"	4'-0 1/2"												S	B	60	558
	1	5	2A524		10'-10"																		B	60	11
	1	5	2A525		9'-1"			9'-1"														+	B	60	9
	17	5	2A526		7'-4"			7'-4"														+	B	60	130
	16	5	2A526		7'-4"			7'-4"															B	60	122
	1	5	2A527		5'-7"			5'-7"														+	B	60	6
	1	5	2A528		10'-4"			10'-4"															B	60	11
	3	5	2A529		9'-6"			9'-6"															B	60	30
	3	5	2A530		9'-6"			9'-6"															B	60	30
	1	5	2A531		9'-3"			9'-3"															B	60	10
	1	5	2A532		9'-0"			9'-0"															B	60	9
	1	5	2A533		8'-1"			8'-1"															B	60	8
	39	5	2A534		8'-0"			8'-0"															B	60	325
	2	5	2A534		8'-0"			8'-0"															B	60	17
	79	5	2A535		8'-0"			8'-0"															B	60	659
	4	5	2A536	19	7'-11"			2'-6 1/2"	5'-5 1/2"				2'-2 1/2"			1'-3"							B	60	33
	1	5	2A537		7'-11"			7'-11"															B	60	8
	10	5	2A538	30	7'-6"			3'-4 1/2"	4'-1 1/2"				2'-11 1/2"			1'-8 1/2"							B	60	78
1	5	2A539		6'-11"			6'-11"															B	60	7	
1	5	2A540		6'-10"			6'-10"															B	60	7	
13	5	2A541	19	6'-4"			2'-8 1/2"	3'-10 1/2"				2'-2 1/2"			1'-3"							B	60	86	
1	5	2A542		5'-10"			5'-10"															B	60	6	
1	5	2A542		5'-10"			5'-10"															B	60	6	
																						Sub	4640		
ConcreteWW3	5	5	2A543	17	10'-9"			4'-0"	3'-0"	4'-0"												B	60	56	
	3	5	2A544	19	9'-6"			4'-7"	4'-11 1/2"				4'-0"			2'-3 1/2"						B	60	30	
	4	5	2A545	19	6'-6"			2'-6 1/2"	4'-0 1/2"				2'-2 1/2"			1'-3"						B	60	27	
	3	5	2A546		5'-9"			5'-9"															B	60	18
	7	5	2A547	1	4'-6"			0'-7 1/2"	4'-0"						0'-5"								B	60	33
																						Sub	164		
ConcreteWW4	5	5	2A548	17	10'-9"			4'-0"	3'-0"	4'-0"												B	60	56	
	4	5	2A549	30	7'-6"			2'-11"	4'-7 1/2"				2'-8 1/2"			1'-5 1/2"						B	60	31	
	4	5	2A550	30	6'-3"			2'-4 1/2"	3'-10 1/2"				2'-1 1/2"			1'-2 1/2"						B	60	26	
	4	5	2A551		5'-9"			5'-9"															B	60	24
6	5	2A552	1	4'-6"			0'-7 1/2"	4'-0"						0'-5"								B	60	28	
																						Sub	165		

PROJECT NAME: JERICHO  
PROJECT NUMBER: BF 0209(10)

FILE NAME: FileName  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: A. MANN  
REINFORCING SCHEDULE 2

PLOT DATE: 25-JUL-2024  
DRAWN BY: M. LONGSTREET  
CHECKED BY: F. BARROWS  
SHEET 34 OF 47

CONCRETE PART	REINFORCING BAR LIST																			COATING/ LEVEL	GRADE	WEIGHT			
	QTY	SIZE	MARK	SHAPE	LENGTH	#	A	B	C	D	E	F	G	H	J	K	O	R	NOTE				VC		
ConcreteApproachSlab1	45	9	1EAS901	1	20'-7"		1'-3"	19'-6"							0'-11 1/2"						E	60	3152		
	1	5	1EAS501		36'-6"			36'-6"													E	60	38		
	1	5	1EAS501		36'-6"			36'-6"													E	60	38		
	1	5	1EAS501		36'-6"			36'-6"													E	60	38		
	1	5	1EAS501		36'-6"			36'-6"													E	60	38		
	1	5	1EAS501		36'-6"			36'-6"													E	60	38		
	1	5	1EAS501		36'-6"			36'-6"													E	60	38		
	1	5	1EAS501		36'-6"			36'-6"													E	60	38		
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	1	5	1EAS501		36'-6"			36'-6"													E	60	38		
	1	5	1EAS501		36'-6"			36'-6"													E	60	38		
	1	5	1EAS501		36'-6"			36'-6"													E	60	38		
	Sub																								3950

CONCRETE PART	REINFORCING BAR LIST																			COATING/ LEVEL	GRADE	WEIGHT			
	QTY	SIZE	MARK	SHAPE	LENGTH	#	A	B	C	D	E	F	G	H	J	K	O	R	NOTE				VC		
Approach Slab 2	45	9	2EAS901	1	20'-6"		1'-3"	19'-5"							0'-11 1/2"						E	60	3139		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	1	5	2AS501		36'-6"			36'-6"													E	60	38		
	Sub																								3899

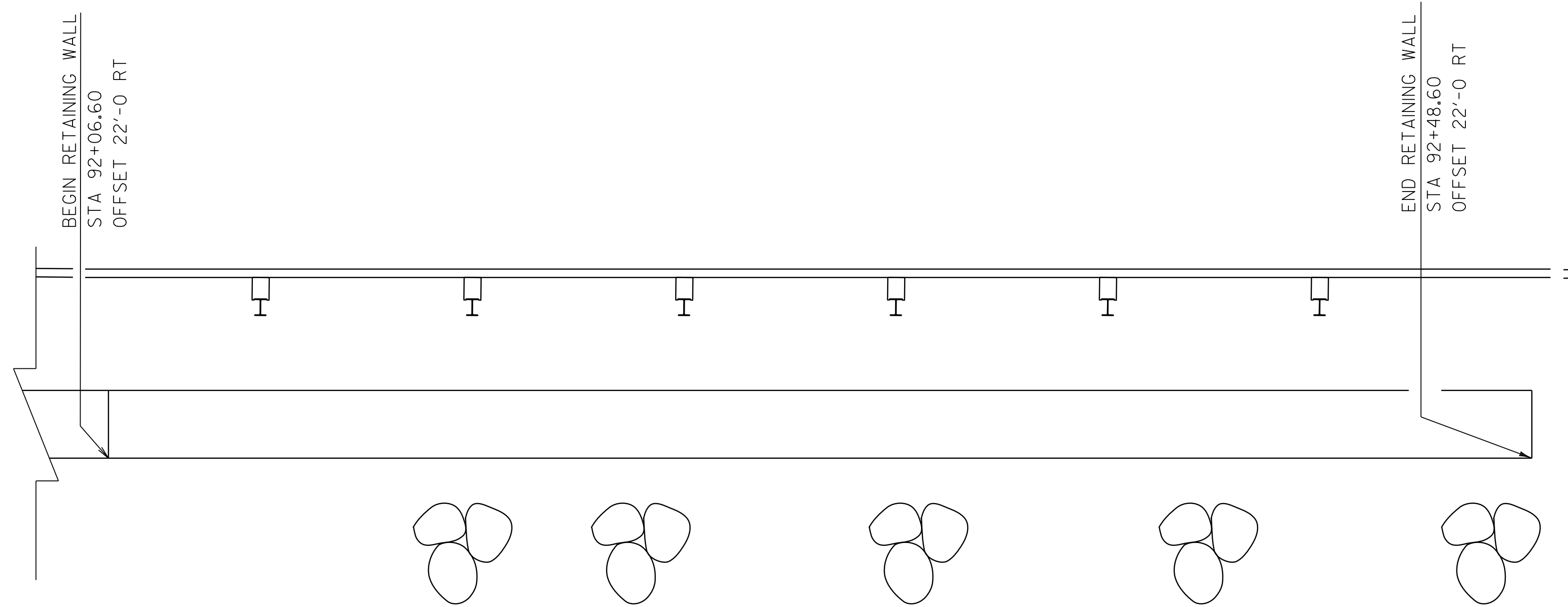
PROJECT NAME: JERICHO  
 PROJECT NUMBER: BF 0209(10)  
 FILE NAME: FileName  
 PROJECT LEADER: R. YOUNG  
 DESIGNED BY: A. MANN  
 REINFORCING SCHEDULE 3  
 PLOT DATE: 25-JUL-2024  
 DRAWN BY: M. LONGSTREET  
 CHECKED BY: F. BARROWS  
 SHEET 35 OF 47

CONCRETE PART	REINFORCING BAR LIST																		COATING/ LEVEL	GRADE	WEIGHT		
	QTY	SIZE	MARK	SHAPE	LENGTH	*	A	B	C	D	E	F	G	H	J	K	O	R				NOTE	VC
	3	6	IA601		11'-6"			11'-6"													E	60	52
	1	6	IA602		10'-11"			10'-11"													S	60	16
	7	5	IA553		8'-11"			8'-11"													E	60	65
	2	5	IA554	19	8'-6"			3'-0 1/4"	5'-6 1/4"				2'-7 3/4"		1'-6"						E	60	18
	1	5	IA555		8'-1"			8'-1"													E	60	8
	1	5	IA556		7'-7"			7'-7"													E	60	8
	1	5	IA557		7'-6"			7'-6"													E	60	8
	1	5	IA558		7'-5"			7'-5"													E	60	8
	12	5	IA559		7'-0"			7'-0"													E	60	88
	1	5	IA560		6'-5"			6'-5"													E	60	7
	25	5	IA561	17	6'-5"			2'-8 1/4"	1'-7"	2'-6 1/4"											E	60	166
	10	5	IA562	19	5'-11"			2'-11 3/4"	2'-11 3/4"	2'-6 1/4"			2'-7 1/4"		1'-5 3/4"						E	60	61
	11	5	IA563	30	5'-8"			2'-9"	2'-9"	2'-9"			2'-5"		1'-4 1/2"						E	60	63
	1	5	IA564		5'-4"			5'-4"													E	60	6
	1	5	IA565		4'-6"			4'-6"													E	60	5
	1	5	IA566		4'-2"			4'-2"													E	60	4
	1	5	IA567		3'-10"			3'-10"													E	60	4
	1	5	IA568		3'-0"			3'-0"													E	60	3
	1	5	IA569		2'-0"			2'-0"													E	60	2
	1	5	IA570		1'-10"			1'-10"													E	60	2
																						Sub	4144
Abutment/wall Concrete	5	5	IA51	17	12'-11"			5'-2 1/2"	2'-11"	5'-0 1/4"											E	60	67
	3	5	IA52	30	8'-9"			2'-9"	6'-0"				2'-5"		1'-4 1/2"						E	60	27
	3	5	IA53	30	6'-7"			2'-9"	3'-10"				2'-5"		1'-4 1/2"						E	60	21
	3	5	IA54		6'-2"			6'-2"													E	60	19
	6	5	IA55	1	5'-6"		0'-7"	5'-0"													E	60	34
																						Sub	168
Abutment/wall Concrete	5	5	IA51	17	12'-11"			5'-2 1/2"	2'-11"	5'-0 1/4"											E	60	67
	4	5	IA52	19	7'-5"			2'-11 3/4"	4'-6 1/4"				2'-7 1/4"		1'-5 3/4"						E	60	31
	4	5	IA53	19	6'-10"			2'-11 3/4"	3'-10 3/4"				2'-7 1/4"		1'-5 3/4"						E	60	28
	6	5	IA54	1	5'-6"		0'-7"	5'-0"													E	60	34
	4	5	IA55		4'-6"			4'-6"													E	60	19
																						Sub	179

PROJECT NAME: JERICHO  
PROJECT NUMBER: BF 0209(10)

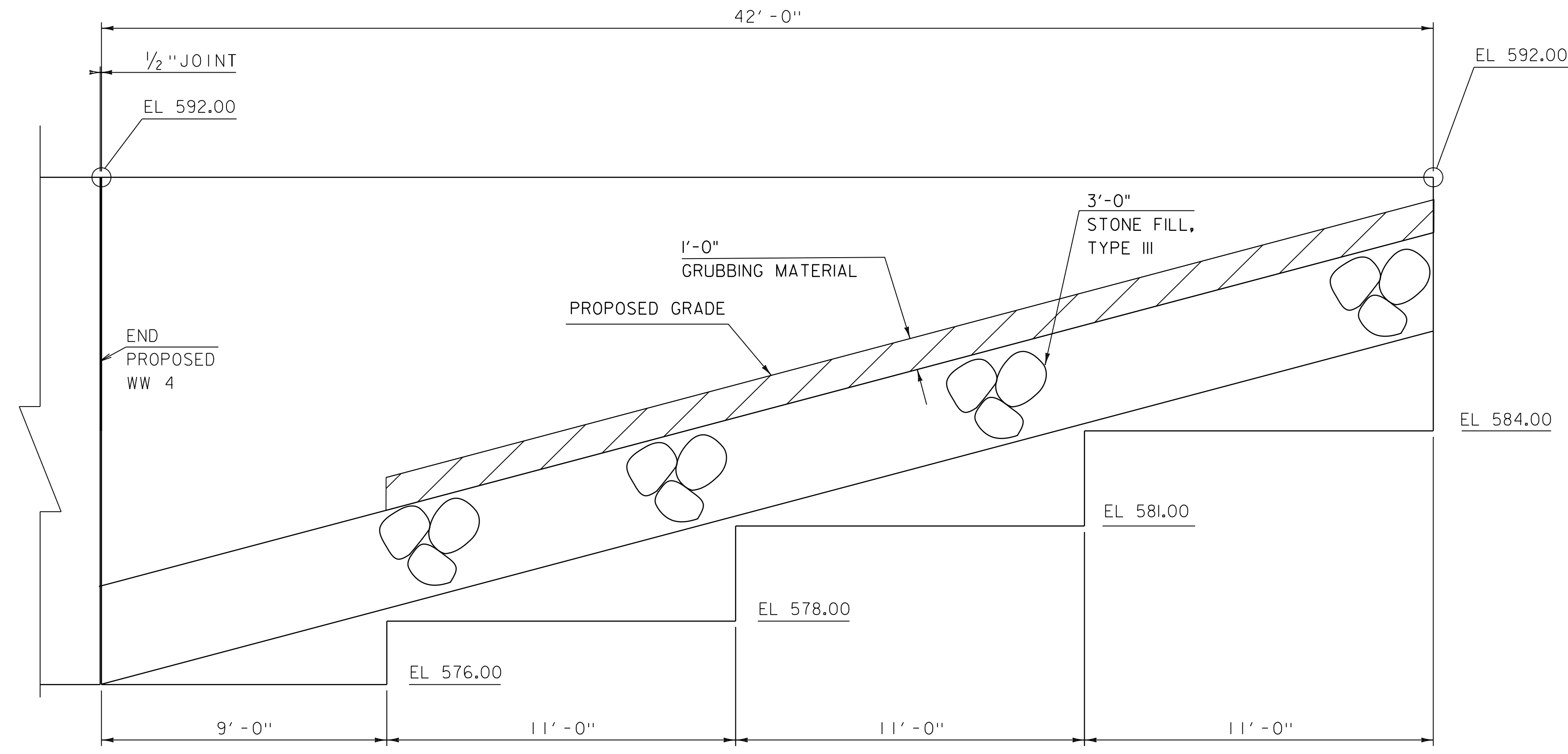
FILE NAME: FileName  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: A. MANN  
REINFORCING SCHEDULE 4

PLOT DATE: 25-JUL-2024  
DRAWN BY: M. LONGSTREET  
CHECKED BY: F. BARROWS  
SHEET 36 OF 47



**RETAINING WALL PLAN**

SCALE: 3/8" = 1'-0"

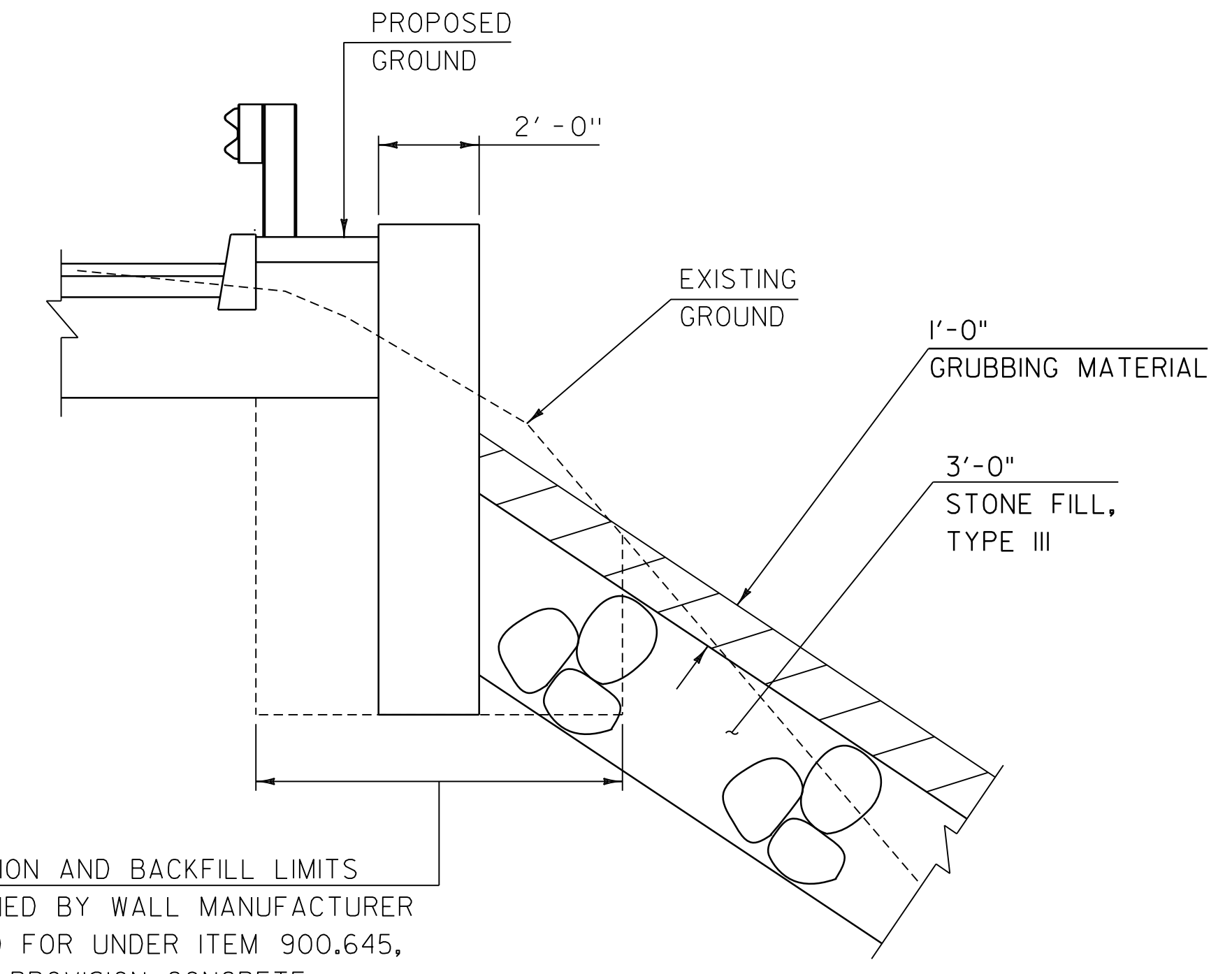


**RETAINING WALL ELEVATION**

SCALE: 3/8" = 1'-0"

**NOTE:**

1. THE INTERFACE BETWEEN THE RETAINING WALL AND WINGWALL SHALL BE DESIGNED TO ALLOW 1/2" OF MOVEMENT. A JOINT DETAIL SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. JOINT SHALL PROVIDE A FLEXIBLE WATER TIGHT SEAL IN ORDER TO PREVENT MIGRATION OF MATERIAL THROUGH THE JOINT. ALL COMPONENTS WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 225.0500, "RETAINING WALL, CONCRETE".
2. DIMENSIONS ARE BASED ON A RETAINING WALL THICKNESS OF 1'-6". IF A DIFFERENT THICKNESS IS USED, GEOMETRY WILL NEED TO BE MODIFIED BY THE CONTRACTOR.
3. THE SOIL PROPERTIES AND DESIGN PEREMETERS USED FOR THIS PROJECT ARE AS INDICATED BELOW:
  - A. SOIL UNIT WEIGHT = 125PCF
  - B. GRANULAR BACKFILL FOR STRUCTURES = 140 PCF
  - D. NOMINAL BEARING RESISTANCE OF BEDROCK = N/A
  - E. BEARING RESISTANCE FACTOR = N/A
  - F. AT REAST EARTH PRESSURE (KO) = 0.44
  - G. REQUIRED DESIGN LIFE = 75 YEARS
  - H. VEHICULAR SURCHARGE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS
4. ANY ADDITIONAL LEDGE REMOVAL REQUIRED TO ACCOMMODATE RETAINING WALLS AND/OR ADDITIONAL RELATED ELEMENTS WILL BE INCLUDED IN PAYMENT FOR ITEM 225.0500, "RETAINING WALL, CONCRETE".

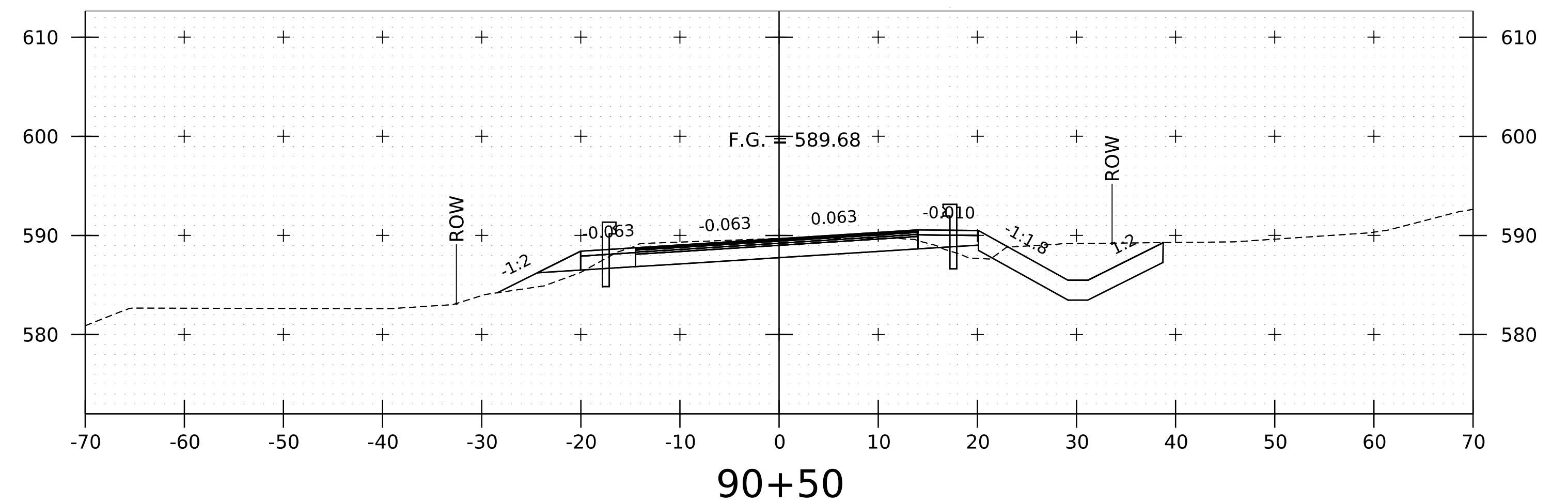
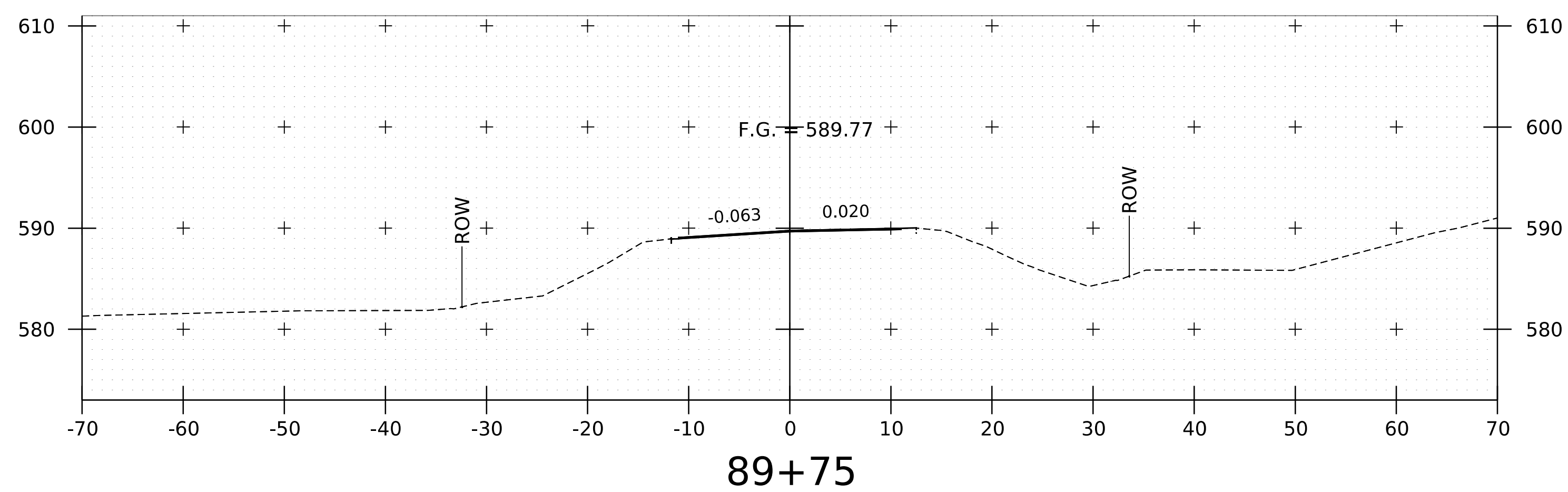
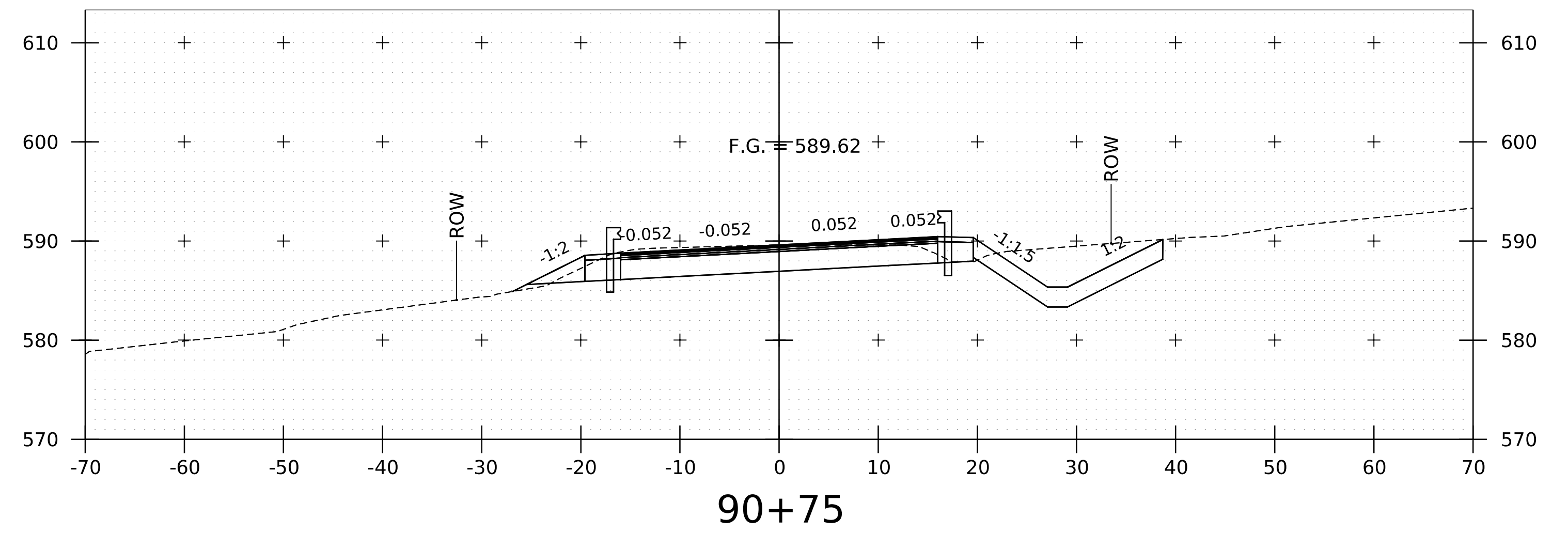
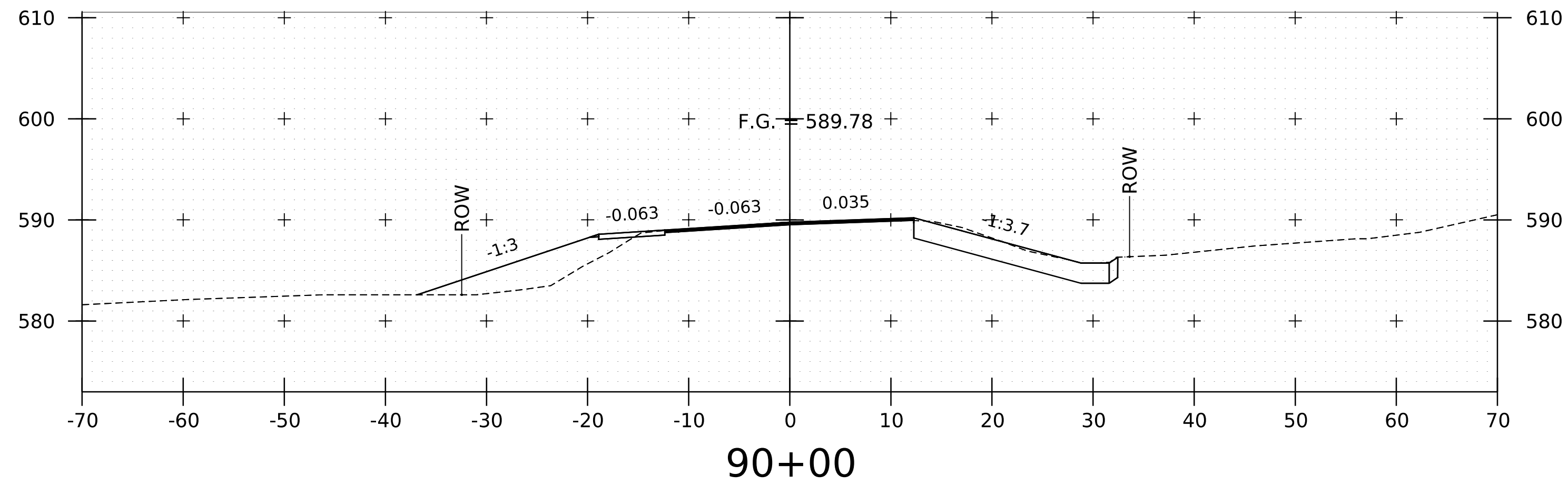
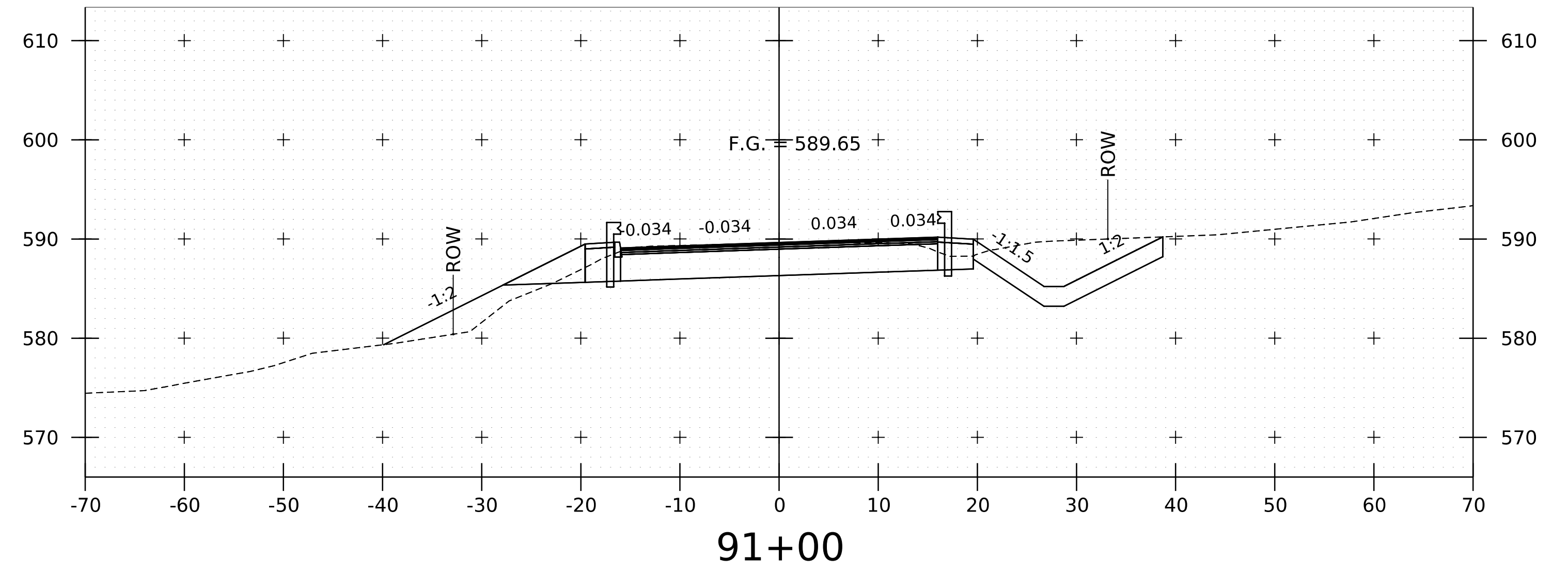
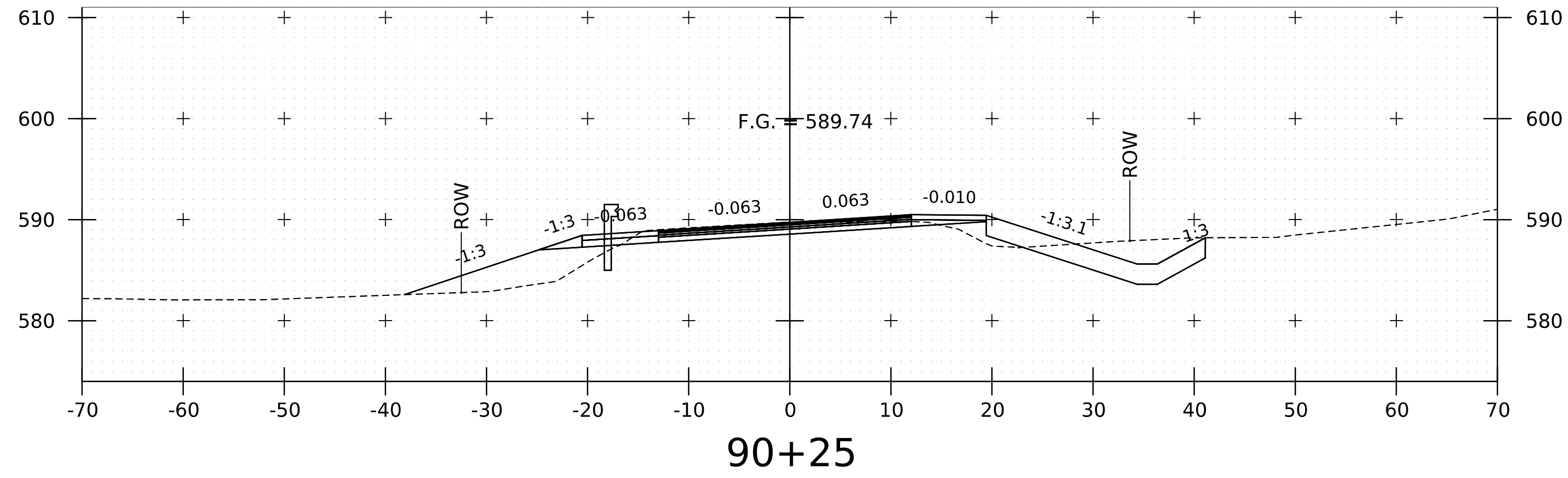


EXCAVATION AND BACKFILL LIMITS DETERMINED BY WALL MANUFACTURER AND PAID FOR UNDER ITEM 900.645, "SPECIAL PROVISION CONCRETE RETAINING WALL"

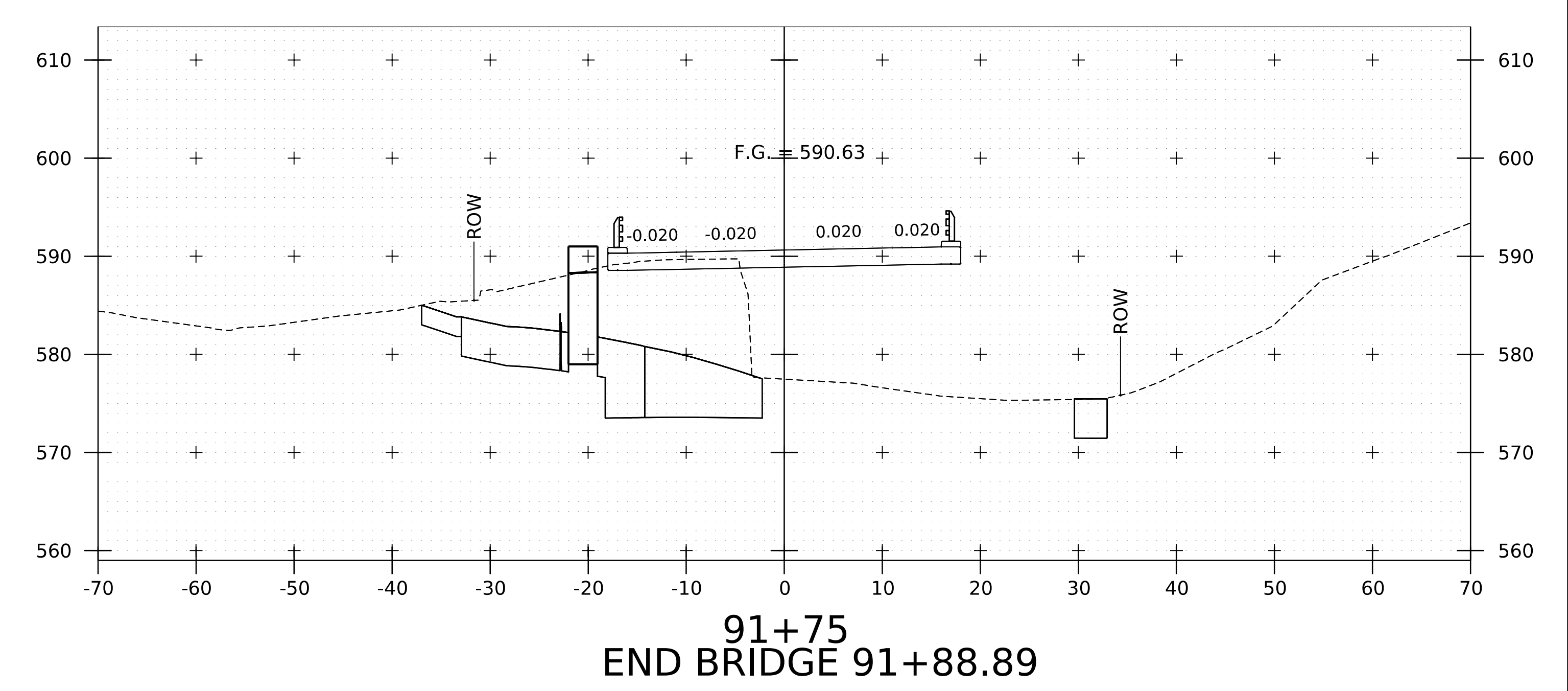
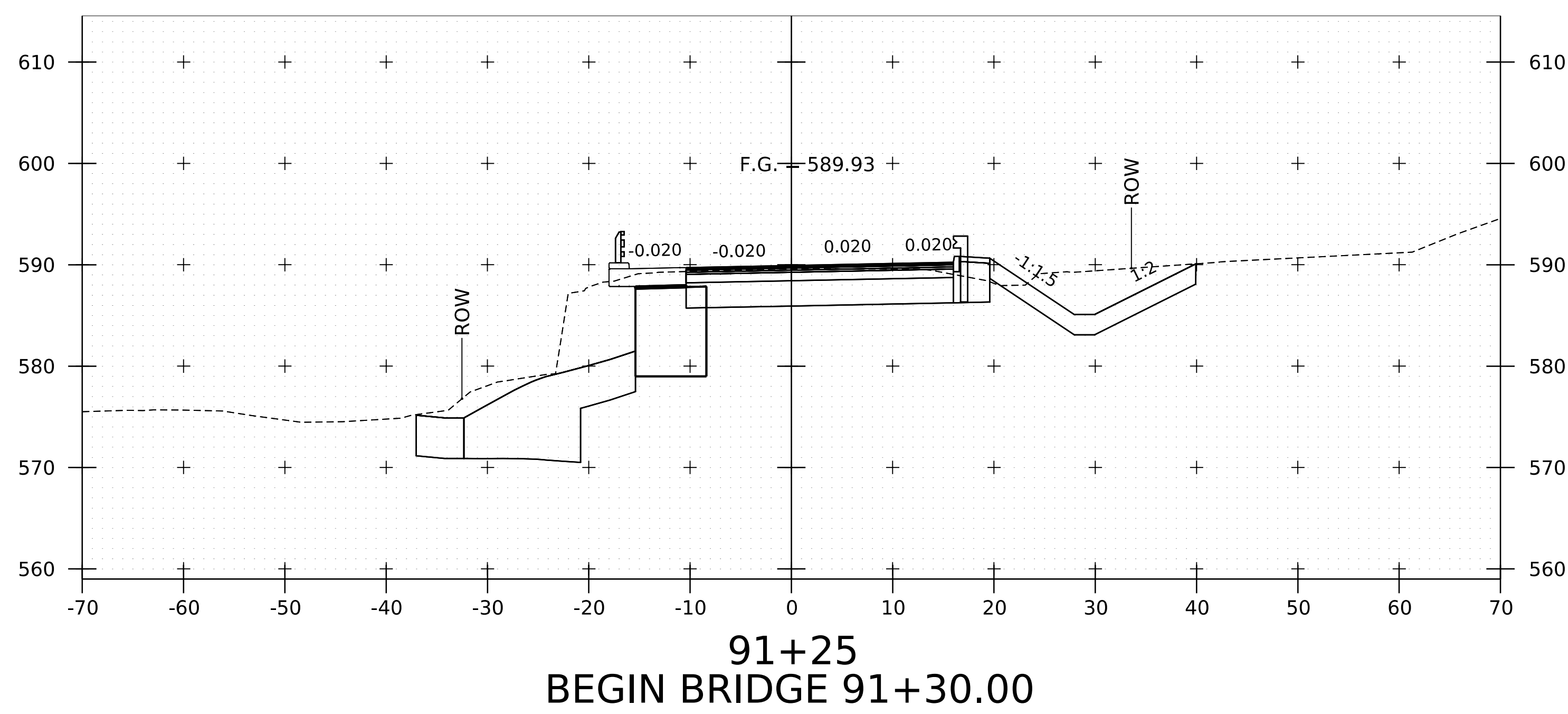
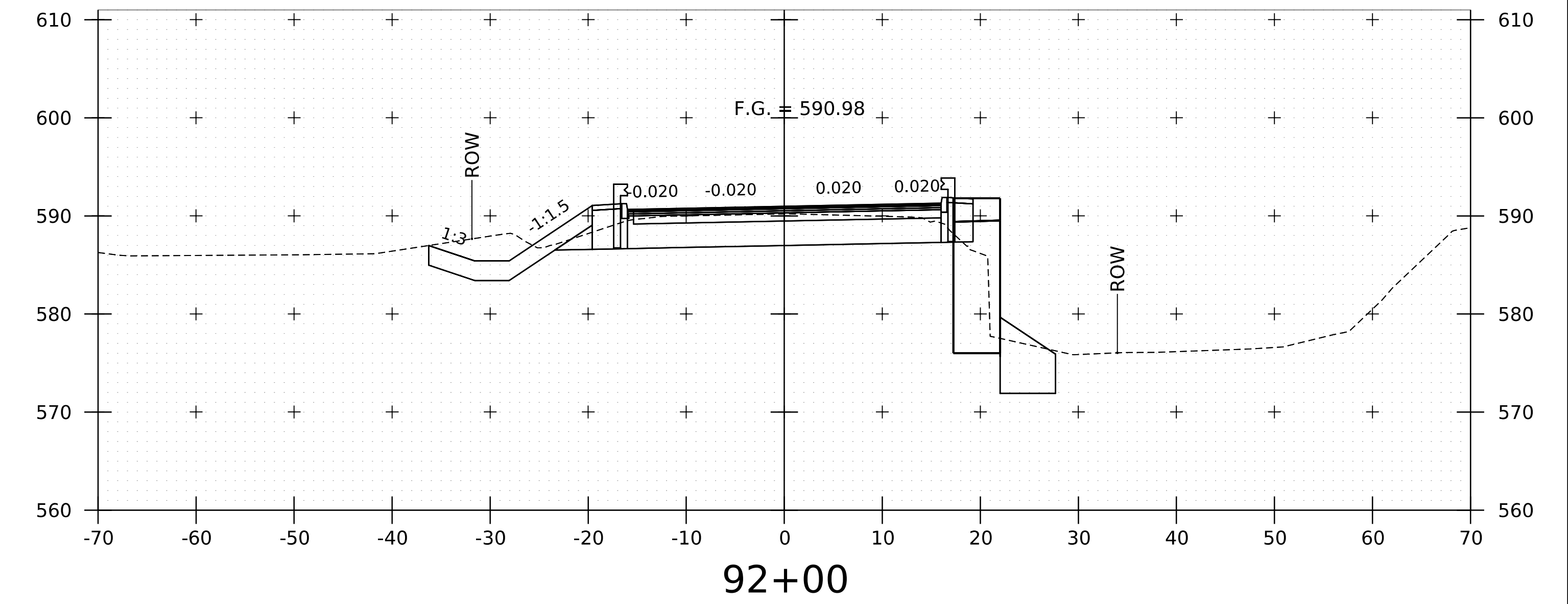
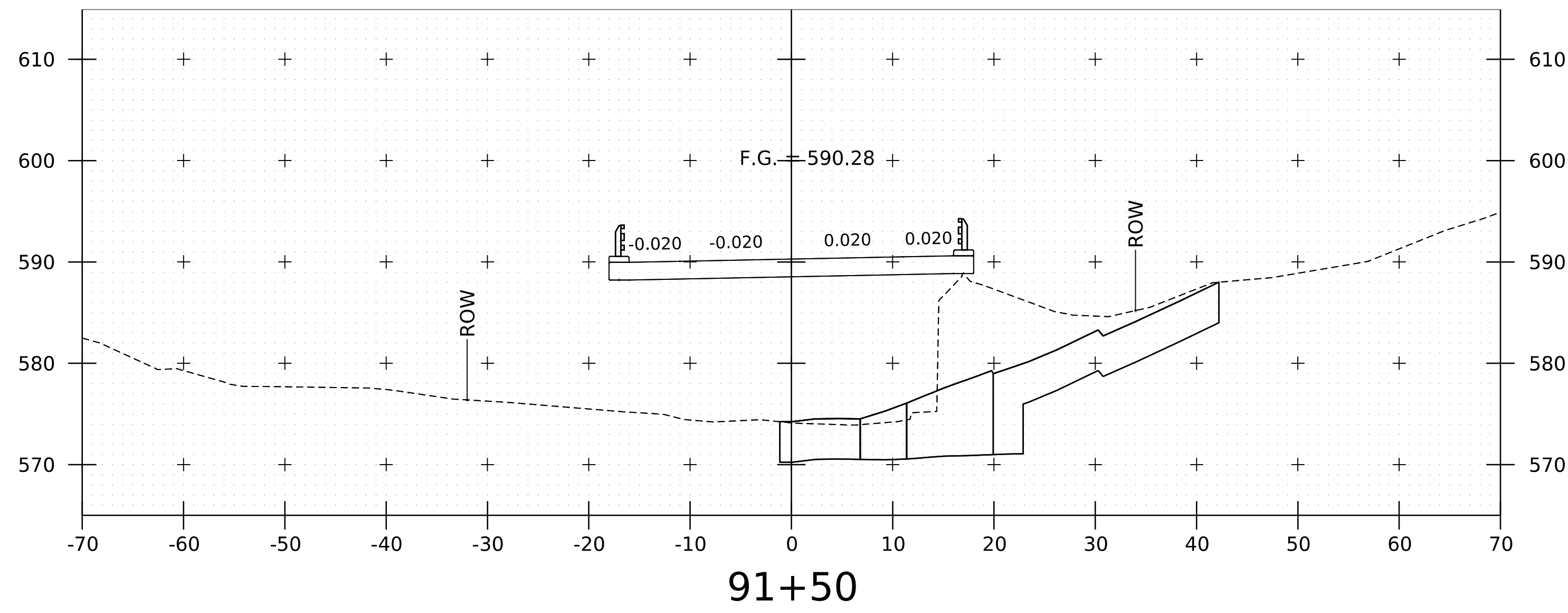
**RETAINING WALL TYPICAL SECTION**

SCALE: 3/8" = 1'-0"

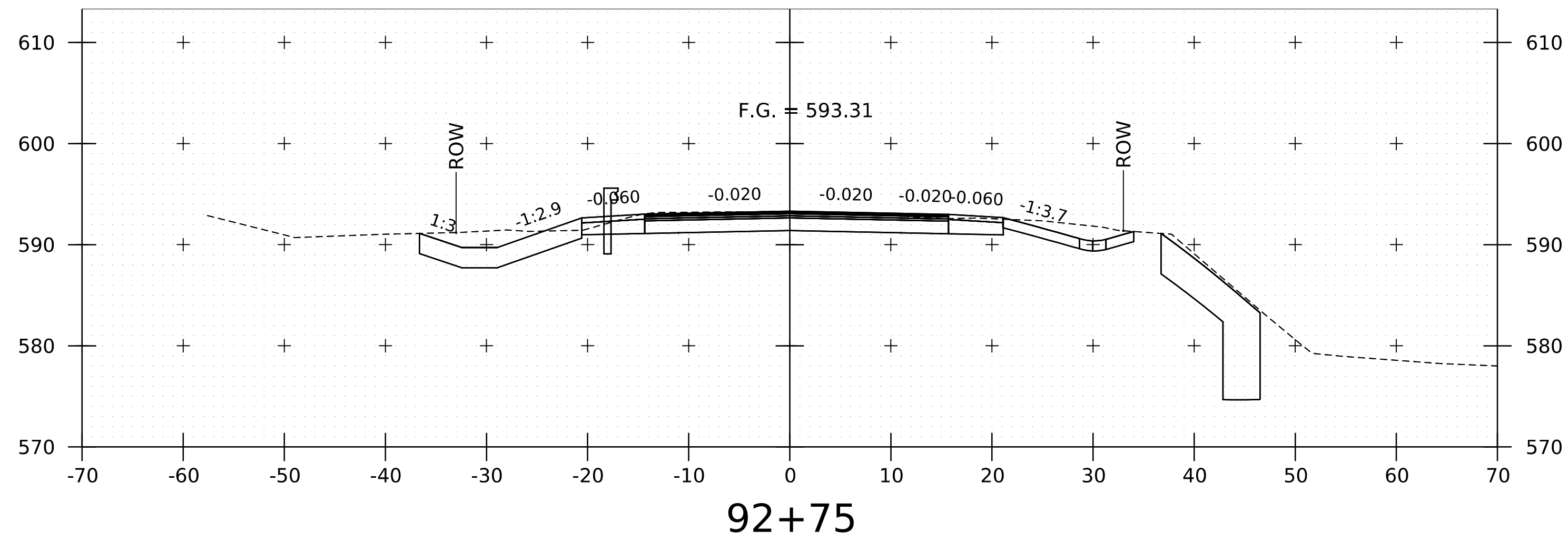
PROJECT NAME:	JERICHO
PROJECT NUMBER:	BF 0209(10)
FILE NAME:	sl2j634retaining wall details.dgn
PROJECT LEADER:	R. YOUNG
DESIGNED BY:	A. MANN
RETAINING WALL DETAIL	
PLOT DATE:	25-JUL-2024
DRAWN BY:	G. ROKES
CHECKED BY:	F. BARROWS
SHEET	37 OF 47



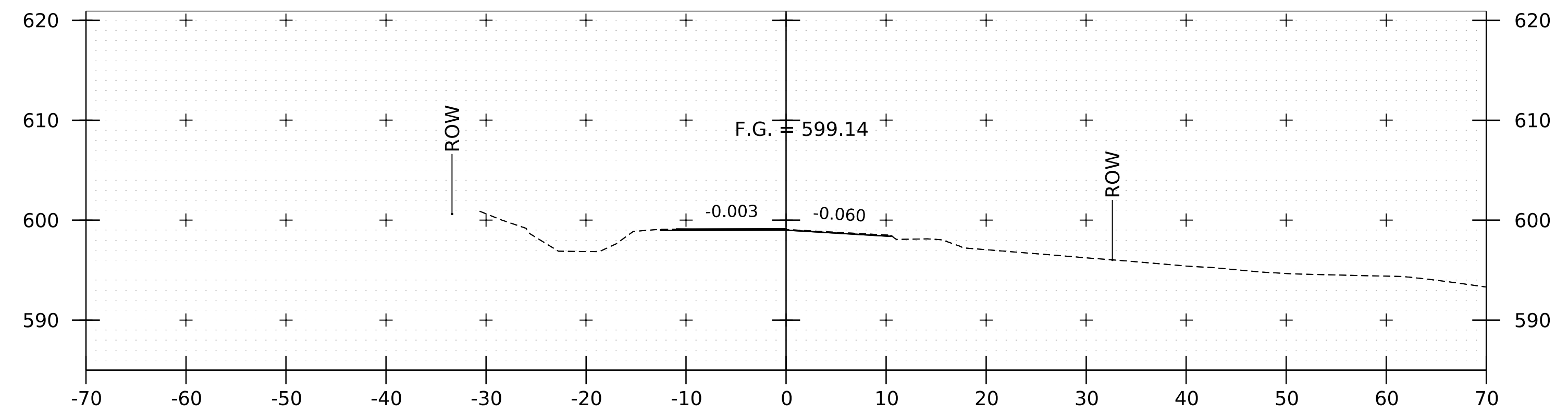
PROJECT NAME: JERICHO	
PROJECT NUMBER: BF 0209(10)	
FILE NAME: I2J634/STR/sl2j634xs.dgn	PLOT DATE: 25-JUL-2024
PROJECT LEADER: R. YOUNG	DRAWN BY: G. ROKES
DESIGNED BY: G. ROKES	CHECKED BY: F. BARROWS
MAINLINE SECTIONS SHEET 1	SHEET 38 OF 47



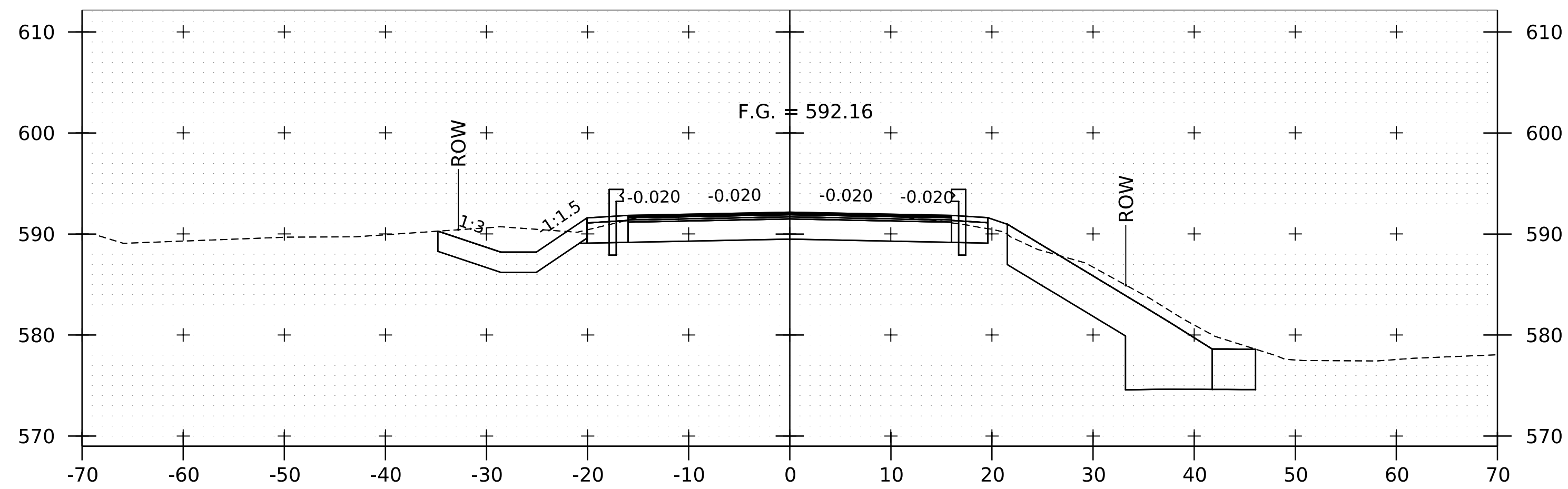
PROJECT NAME: JERICHO	
PROJECT NUMBER: BF 0209(10)	
FILE NAME: I2J634/STR/sl2j634xs.dgn	PLOT DATE: 25-JUL-2024
PROJECT LEADER: R. YOUNG	DRAWN BY: G. ROKES
DESIGNED BY: G. ROKES	CHECKED BY: F. BARROWS
MAINLINE SECTIONS SHEET 2	SHEET 39 OF 47



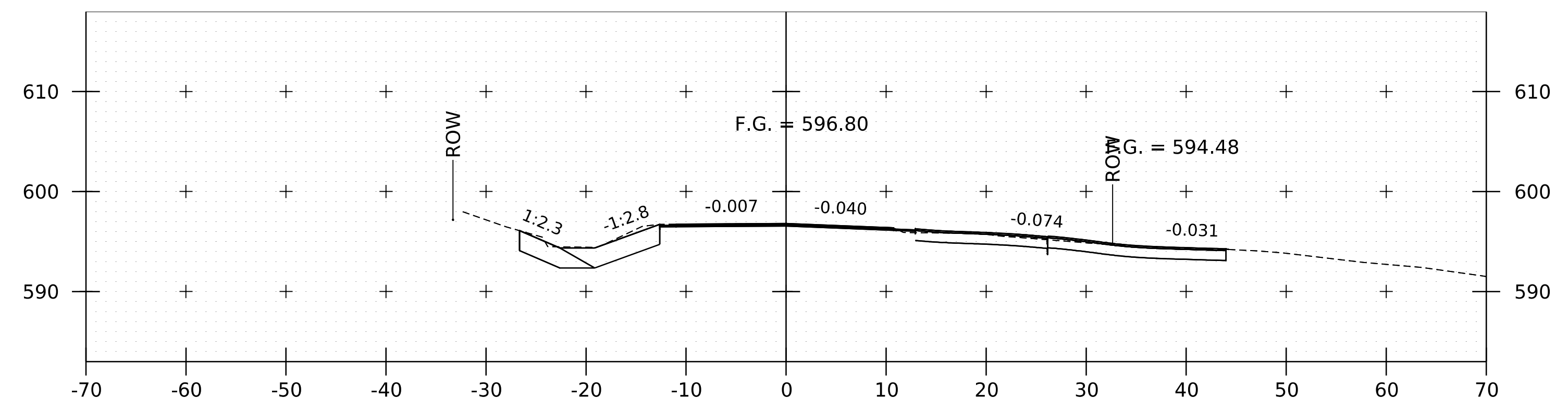
92+75



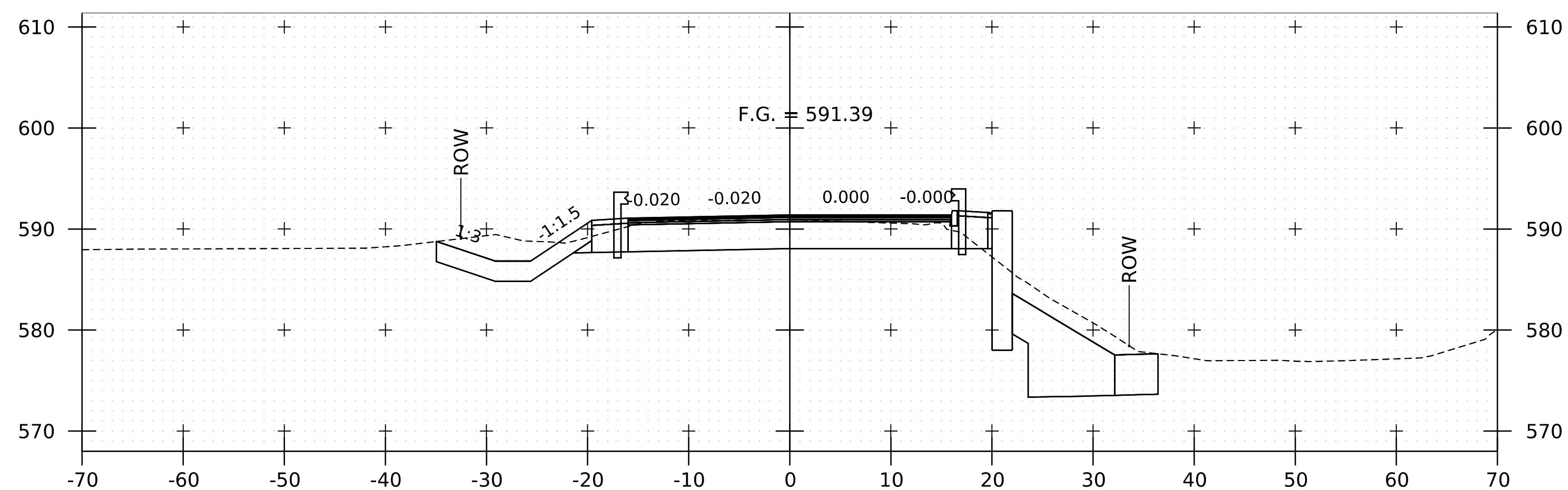
93+50



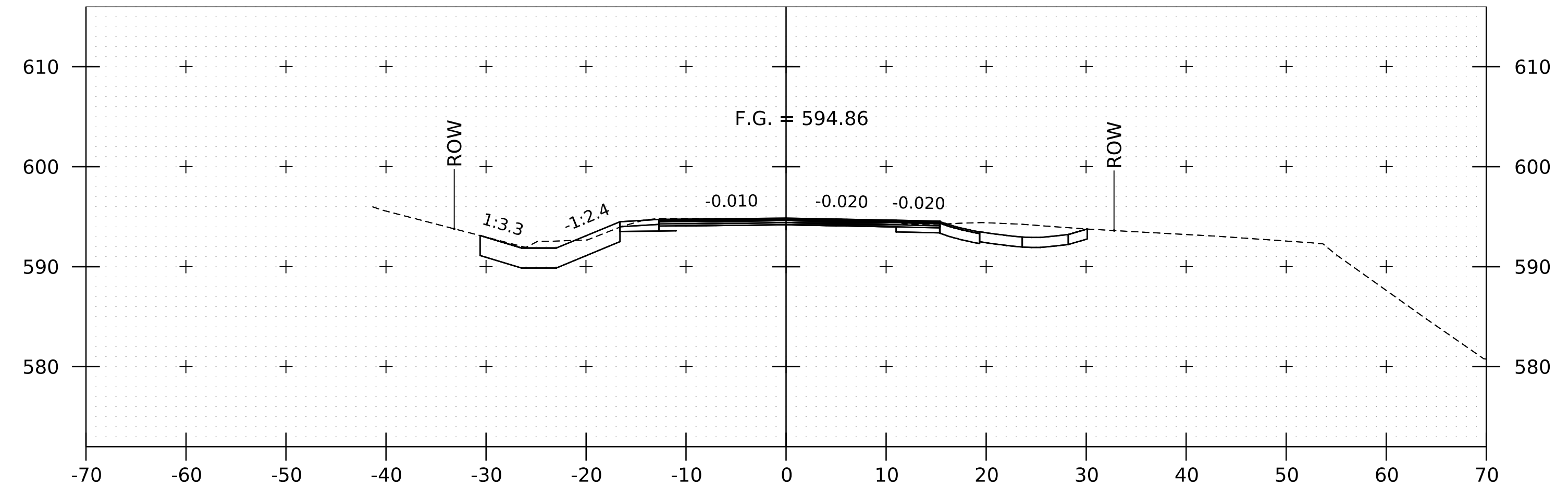
92+50



93+25



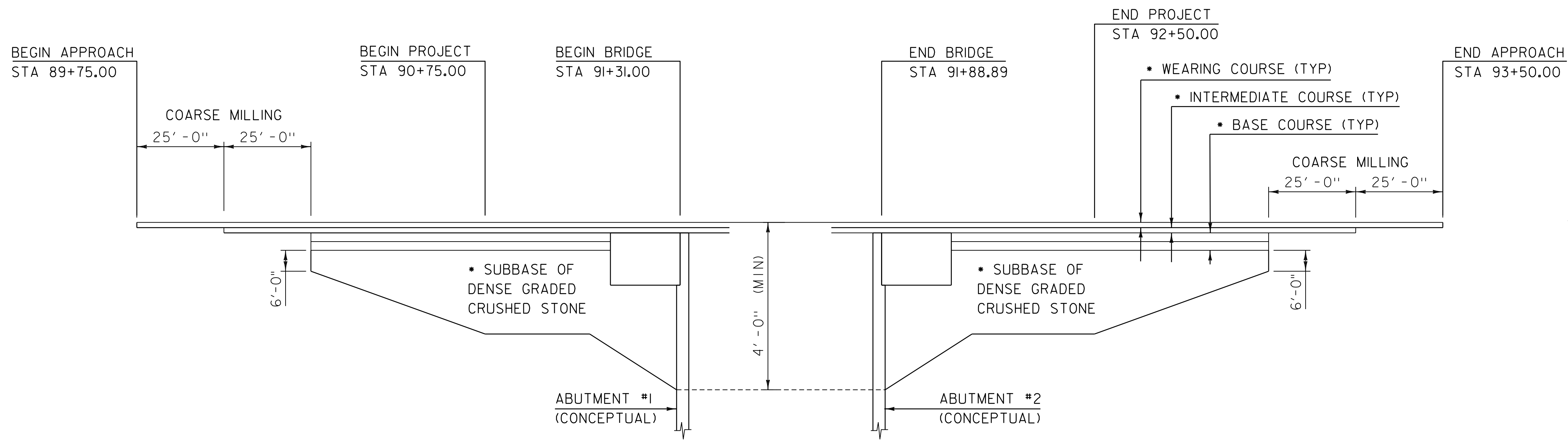
92+25



93+00

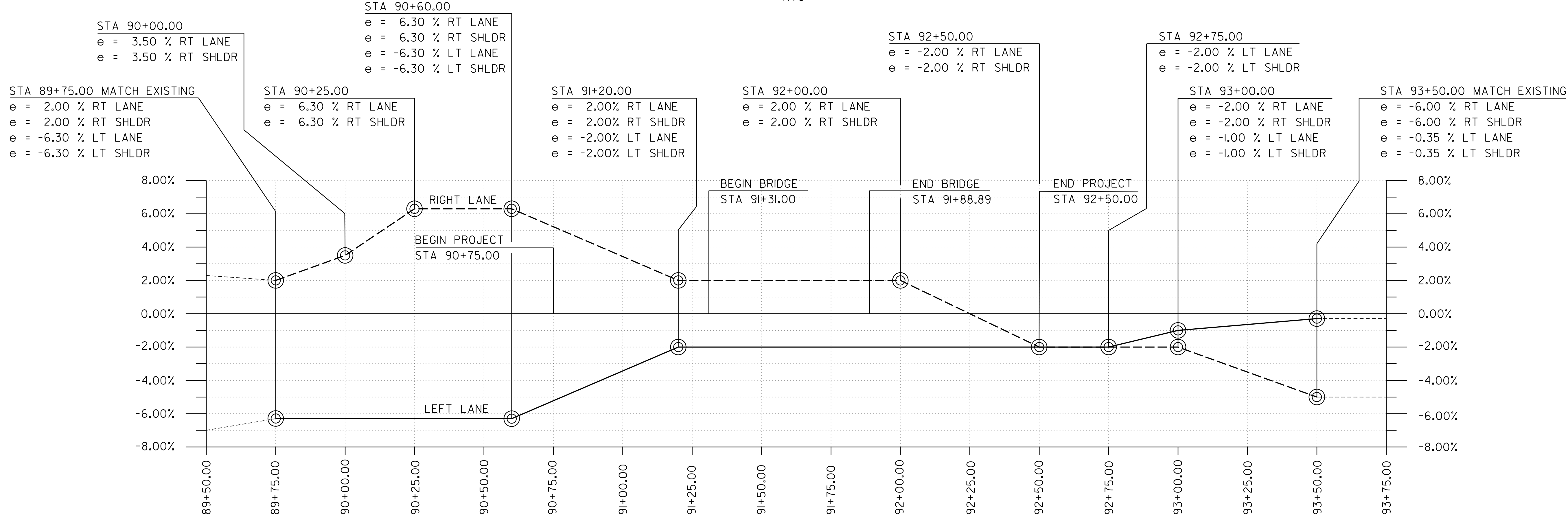
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PROJECT NUMBER: BF 0209(10)	
FILE NAME: I2J634/STR/sl2j634xs.dgn	PLOT DATE: 25-JUL-2024
PROJECT LEADER: R. YOUNG	DRAWN BY: G.ROKES
DESIGNED BY: G.ROKES	CHECKED BY: F. BARROWS
MAINLINE SECTIONS SHEET 3	SHEET 40 OF 47





MATERIAL TRANSITION

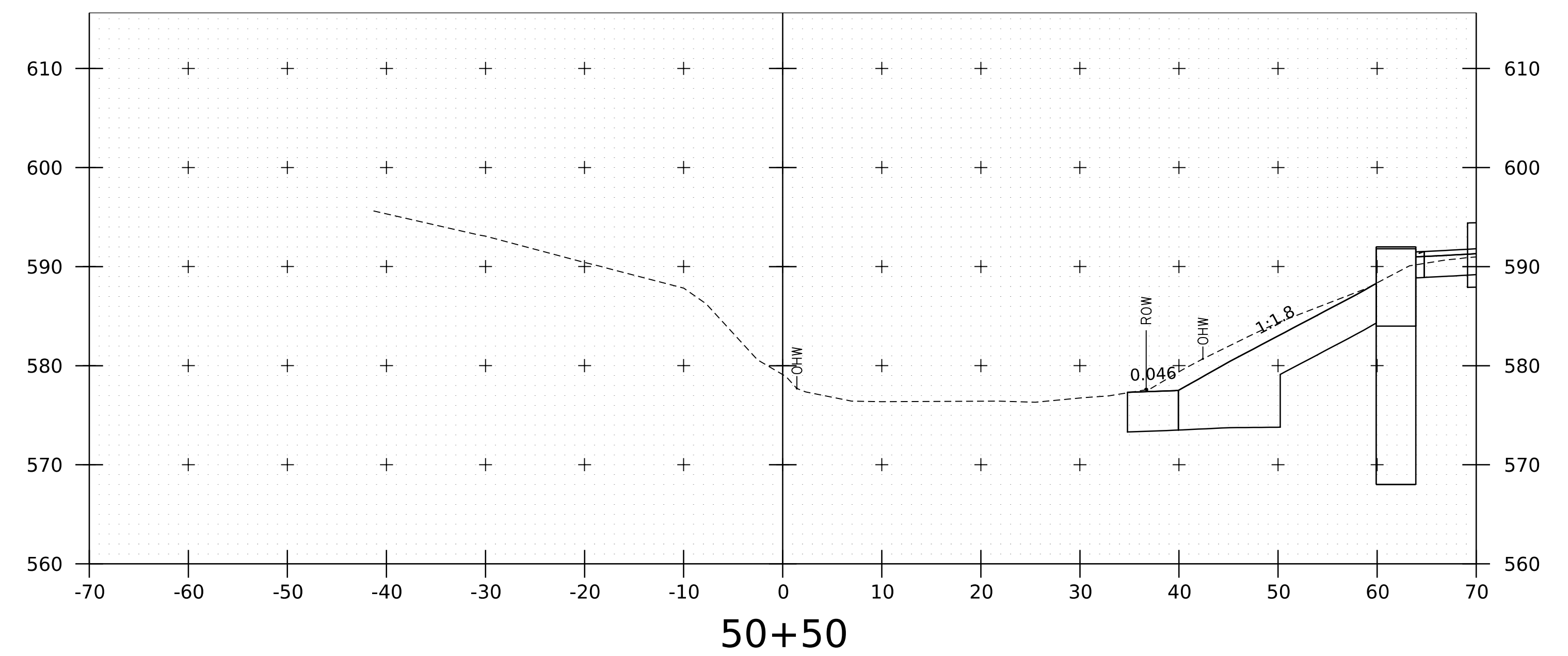
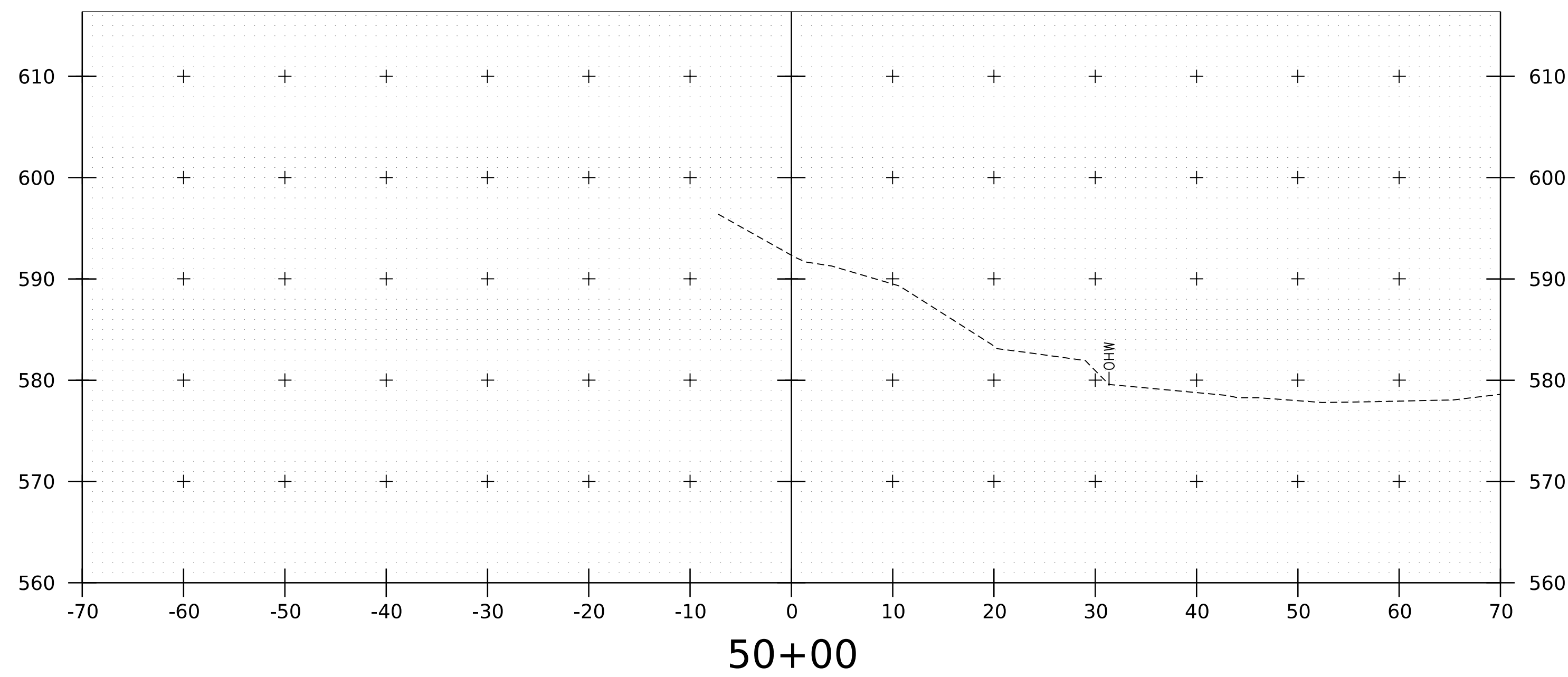
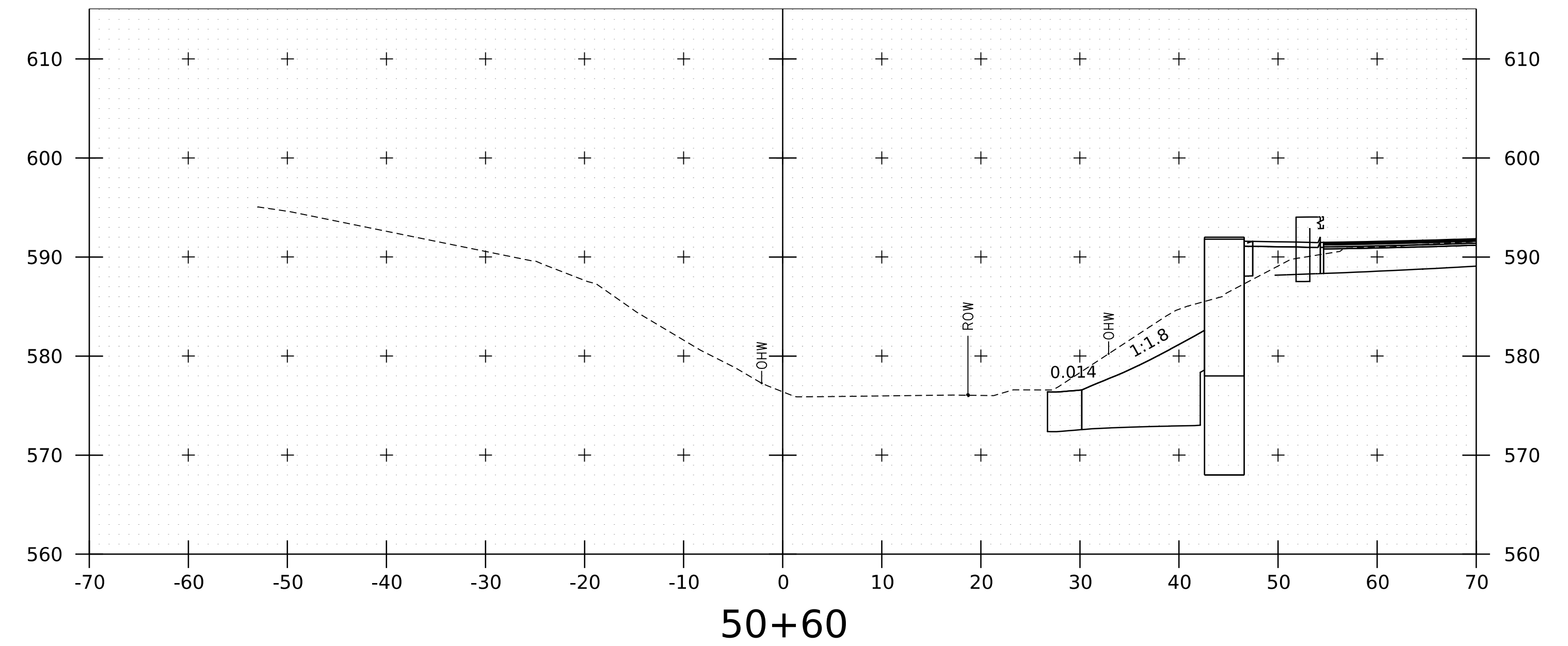
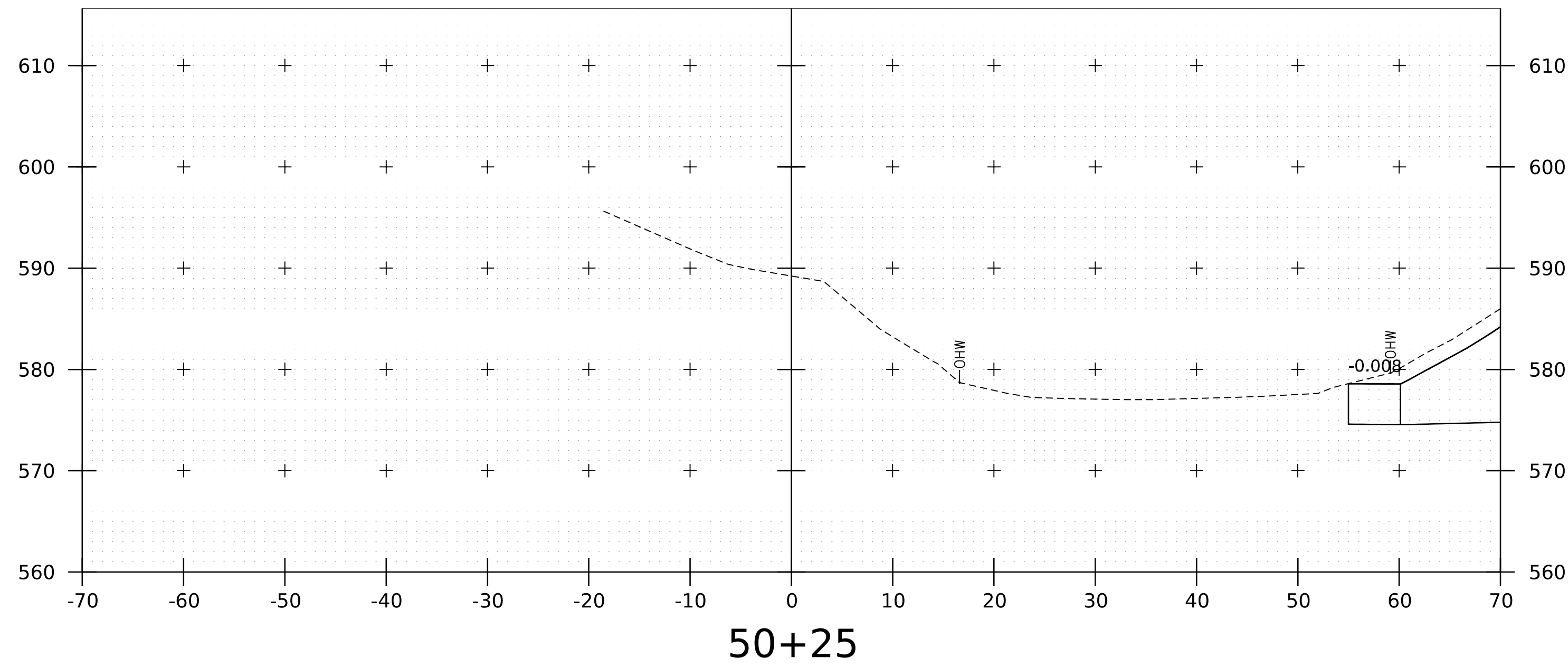
NTS



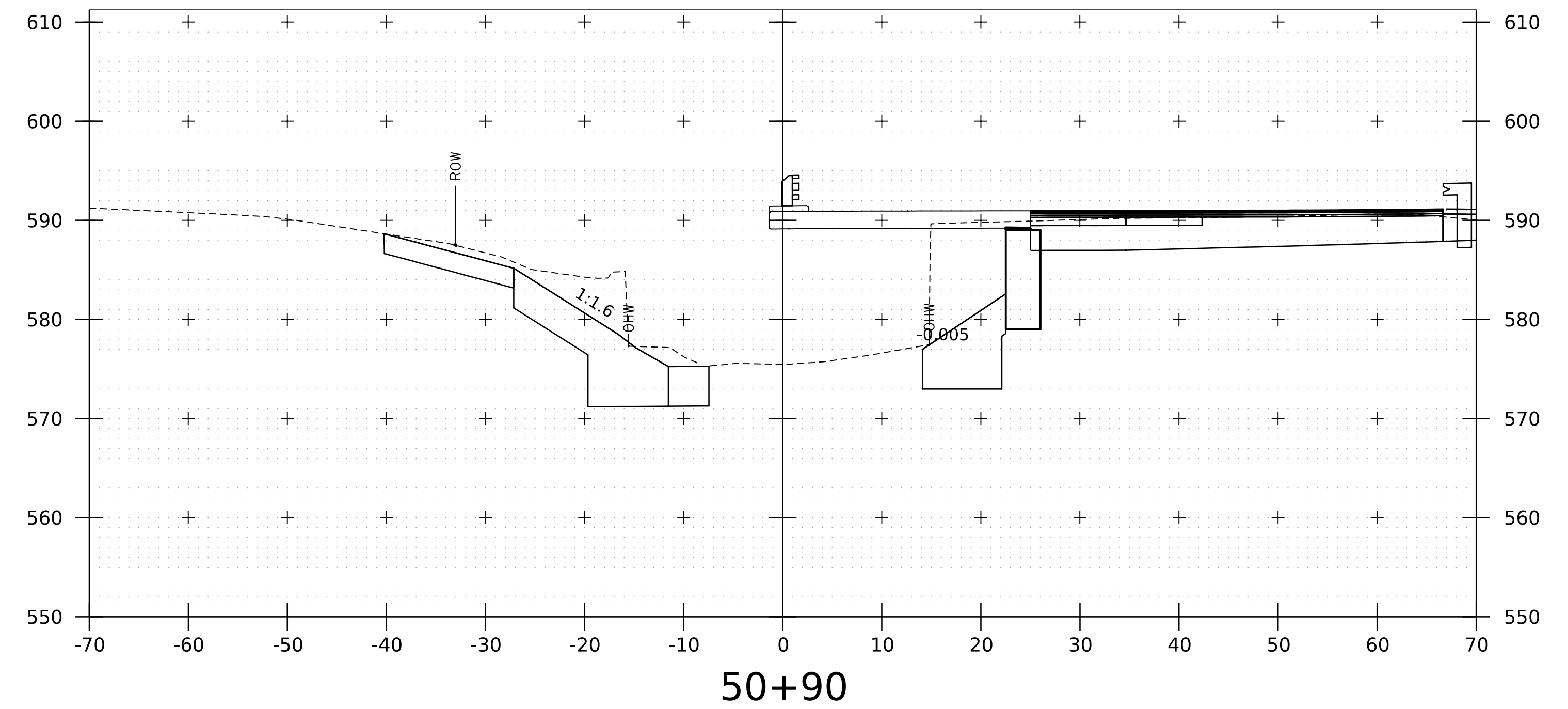
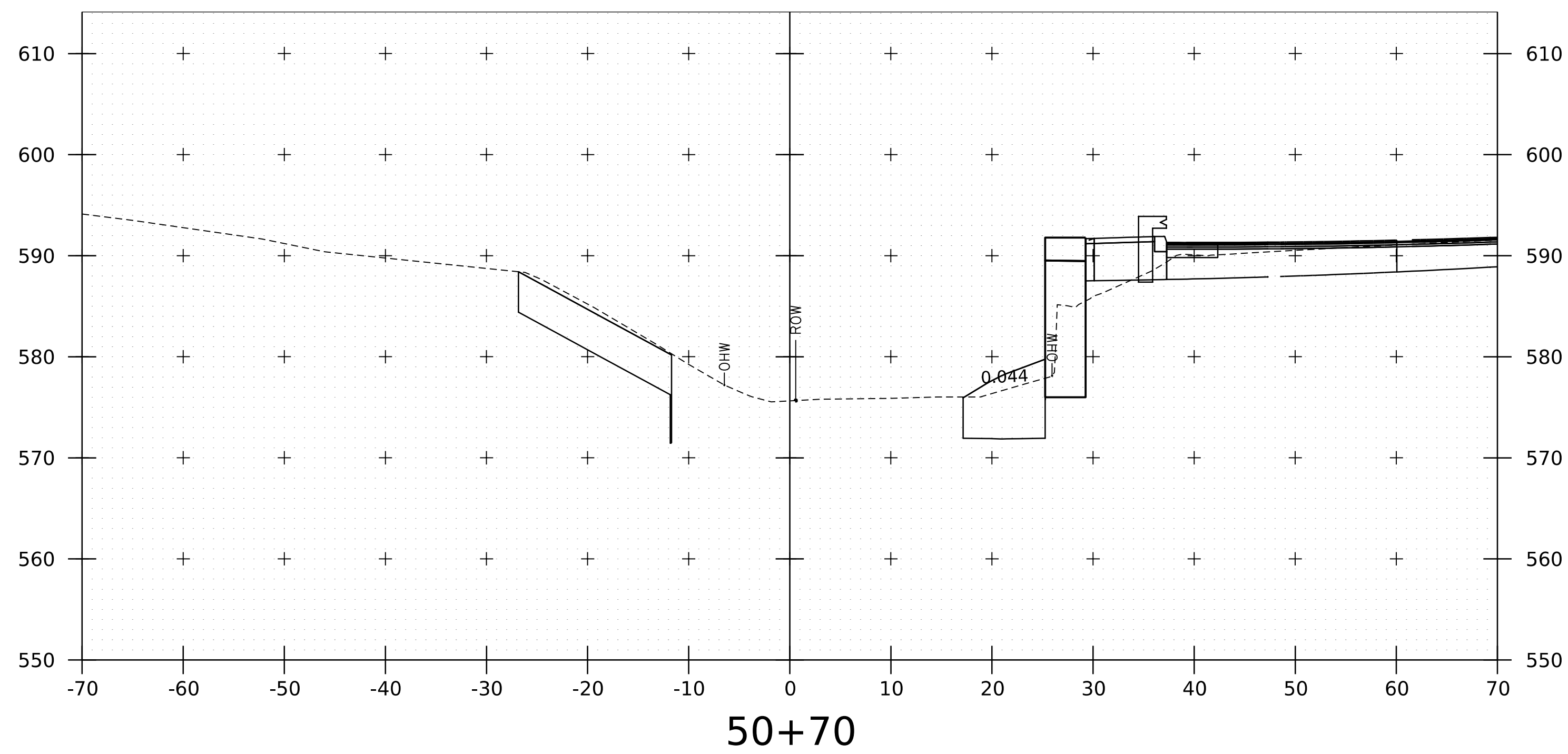
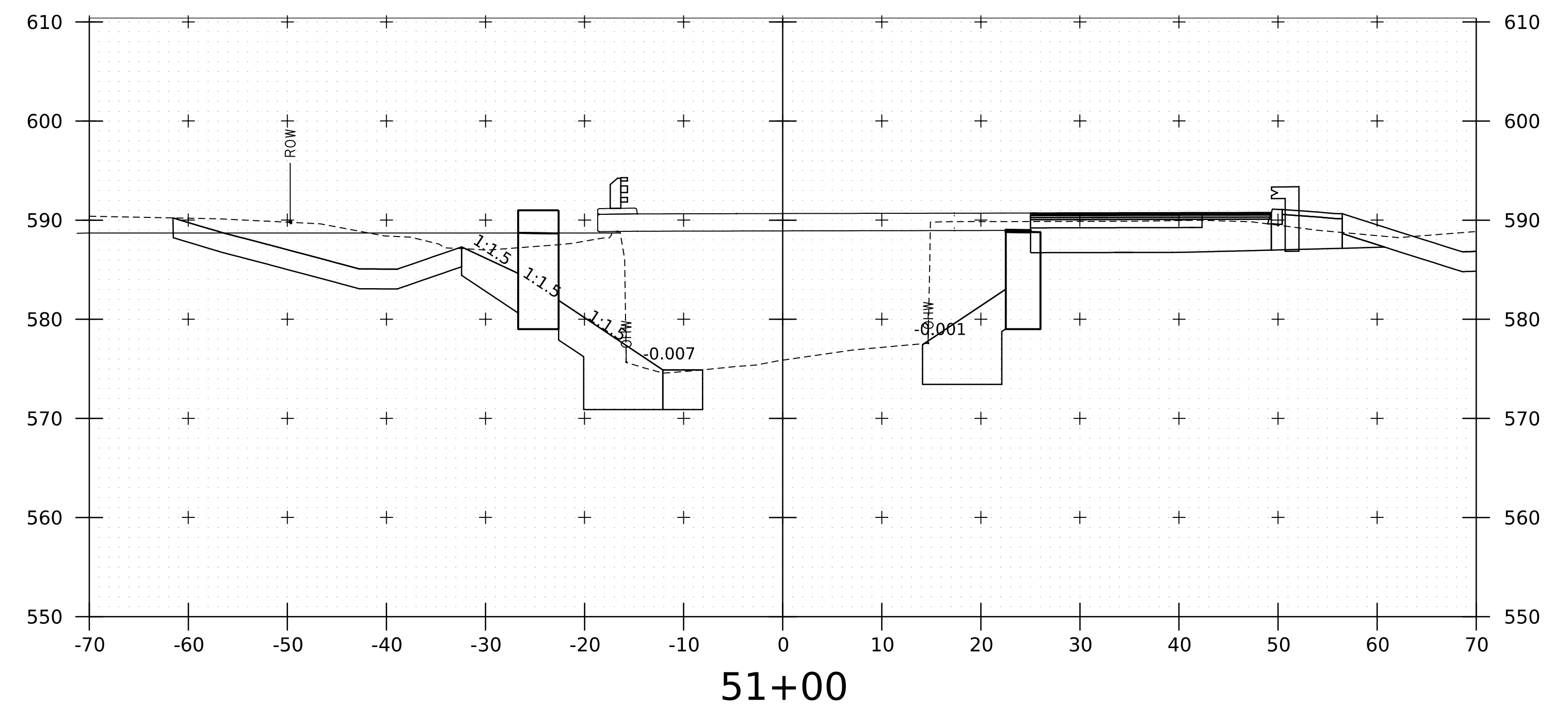
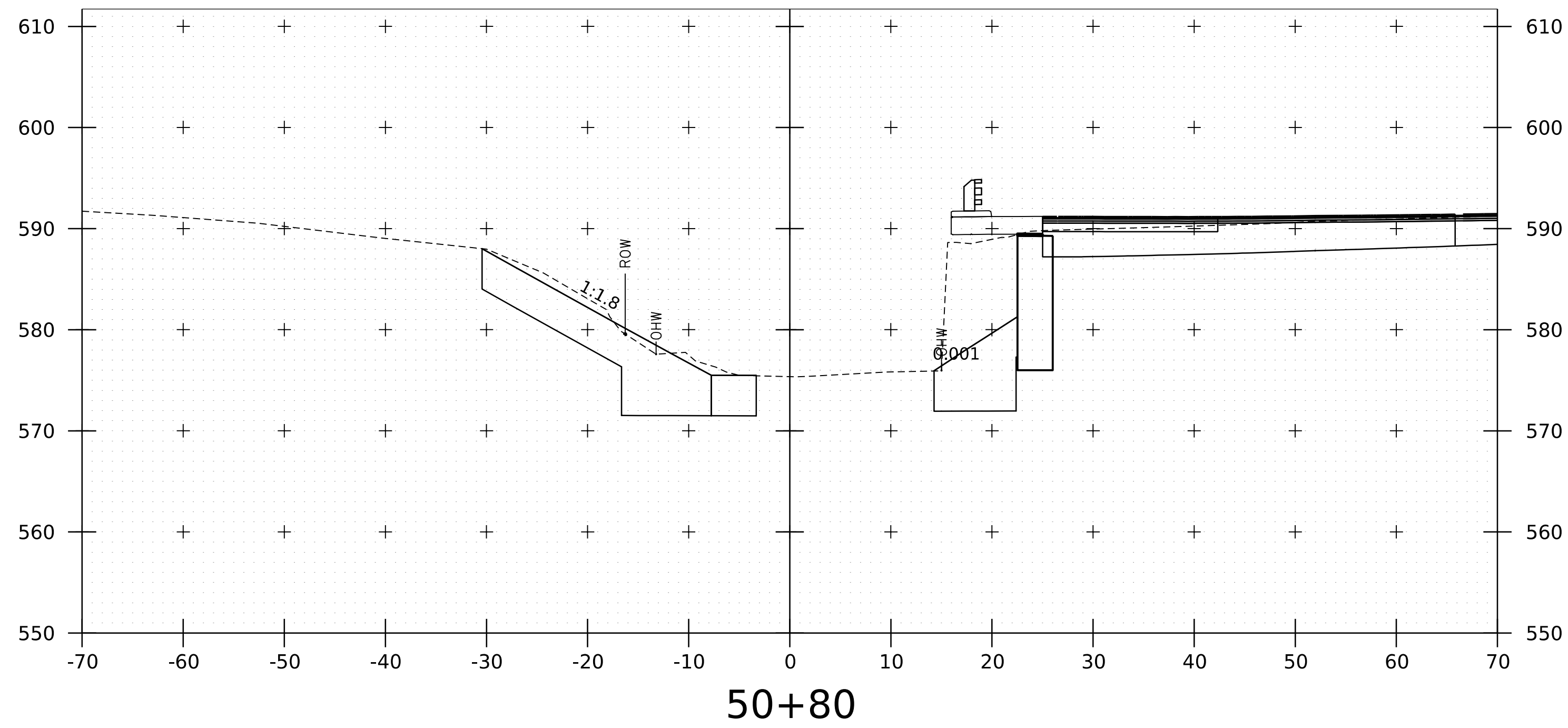
BANKING DIAGRAM

SCALE : HORIZONTAL 1" = 20' - 0"  
VERTICAL NTS

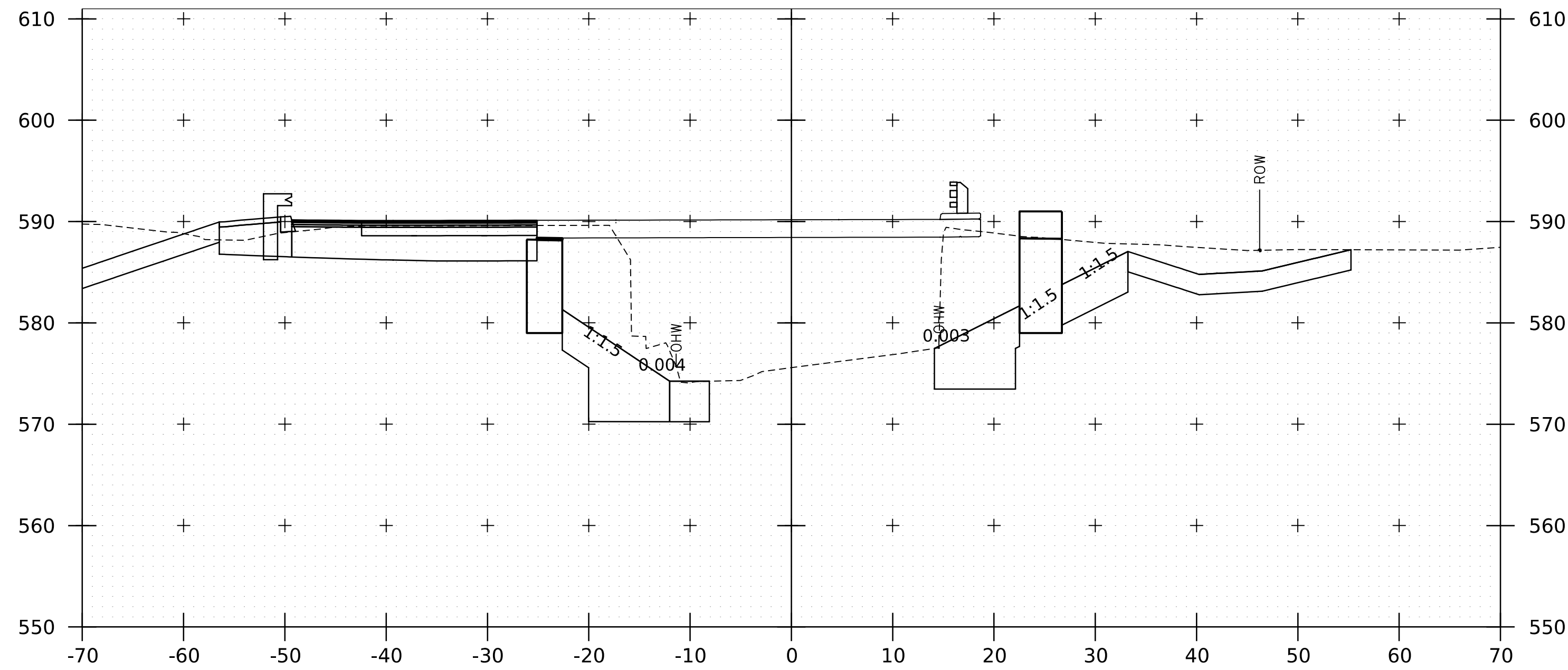
PROJECT NAME:	JERICHO	PLOT DATE:	25-JUL-2024
PROJECT NUMBER:	BF 0209(10)	DRAWN BY:	G. ROKES
FILE NAME:	sl2j634\STR\2j634pro.dgn	CHECKED BY:	F. BARROWS
PROJECT LEADER:	R. YOUNG	MATERIAL TRANSITION AND SUPER ELEVATION SHEET	41 OF 47



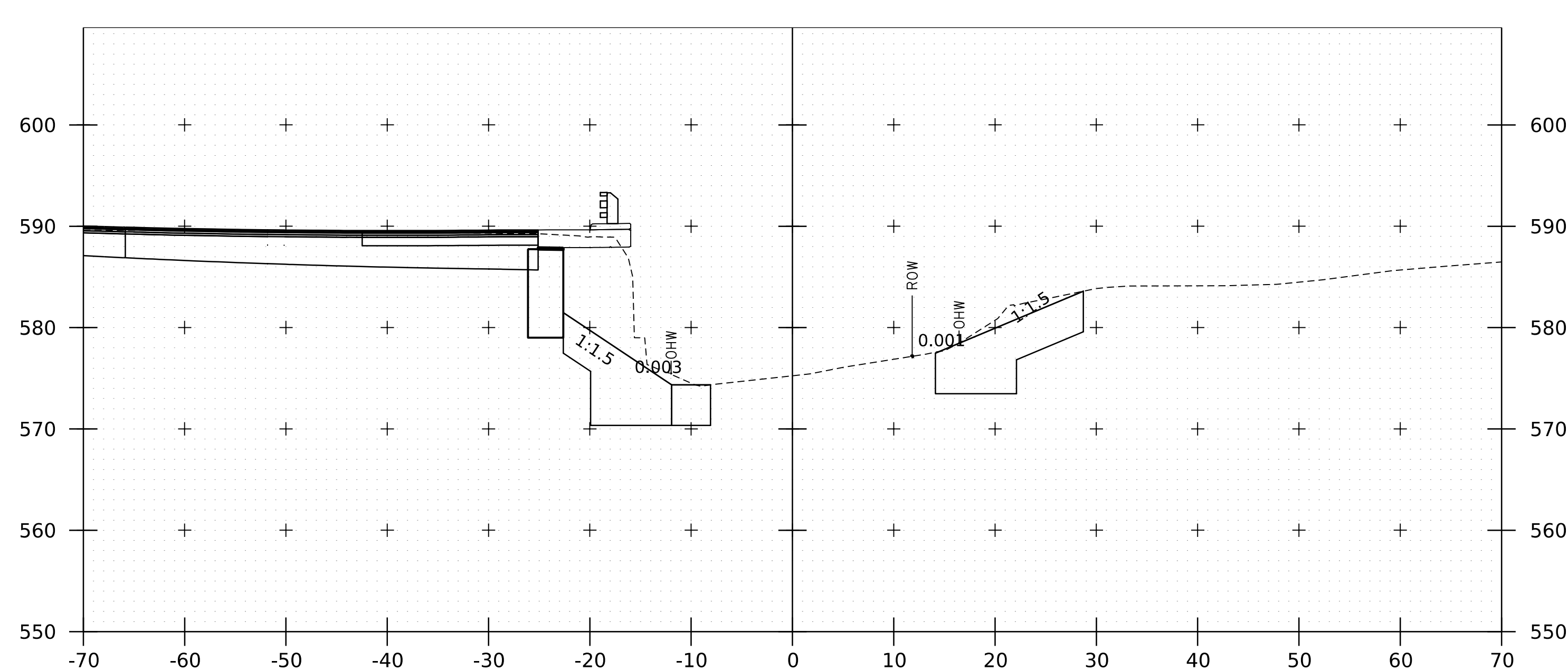
PROJECT NAME: JERICHO	PLOT DATE: 25-JUL-2024
PROJECT NUMBER: BF 0209(10)	DRAWN BY: G.ROKES
FILE NAME: I2J634/STR/I2J634chxs.dgn	CHECKED BY: F.BARROWS
PROJECT LEADER: R.YOUNG	SHEET 42 OF 47
DESIGNED BY: G.ROKES	
CHANNEL SECTIONS SHEET 1	



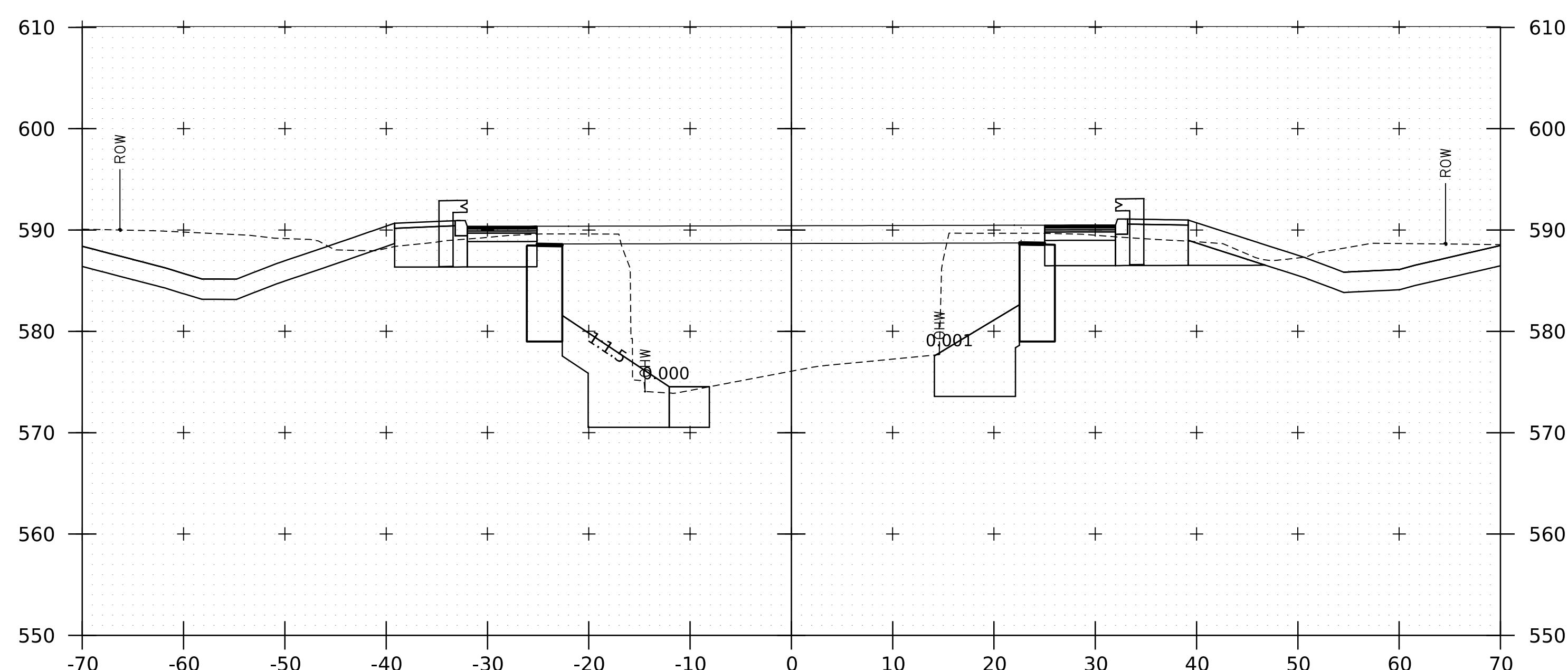
PROJECT NAME: JERICHO	
PROJECT NUMBER: BF 0209(10)	
FILE NAME: I2J634/STR/I2J634chxs.dgn	PLOT DATE: 25-JUL-2024
PROJECT LEADER: R.YOUNG	DRAWN BY: G.ROKES
DESIGNED BY: G.ROKES	CHECKED BY: F.BARROWS
CHANNEL SECTIONS SHEET 2	SHEET 43 OF 47



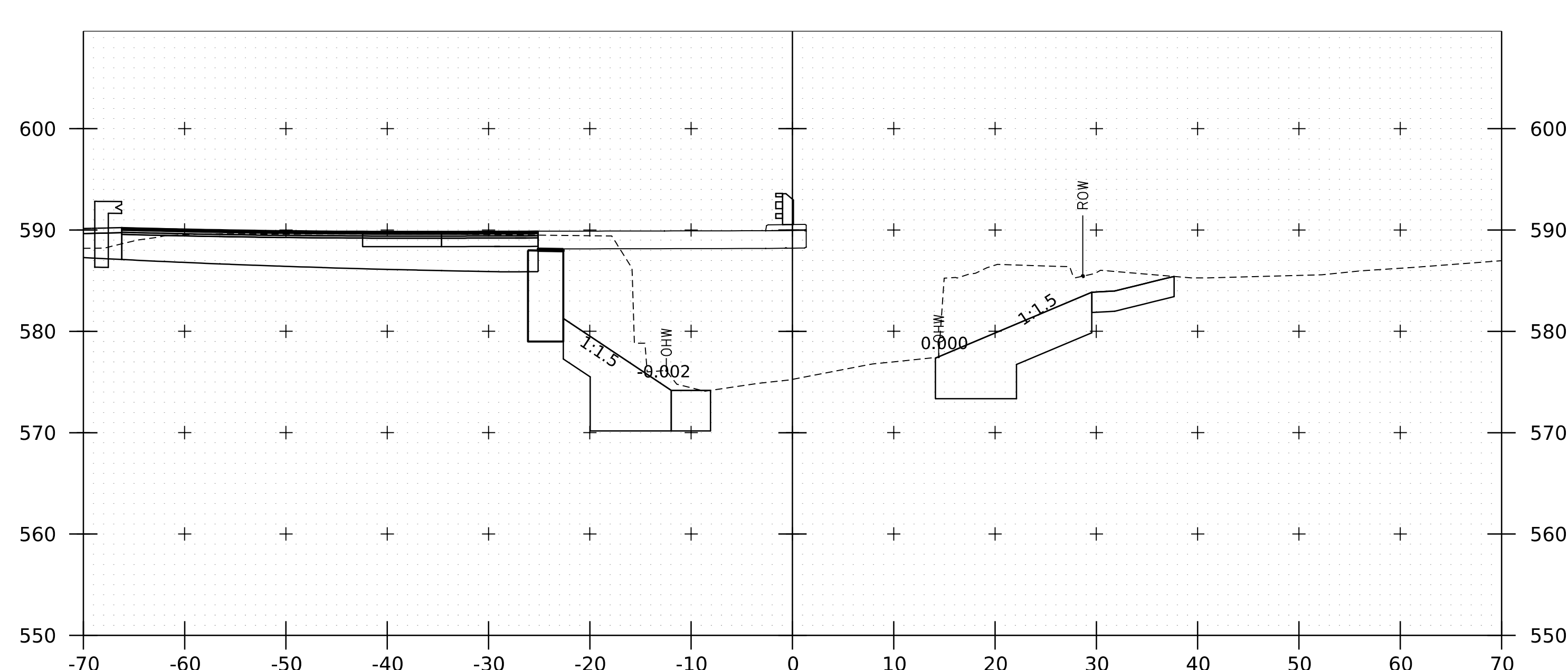
51+20



51+40

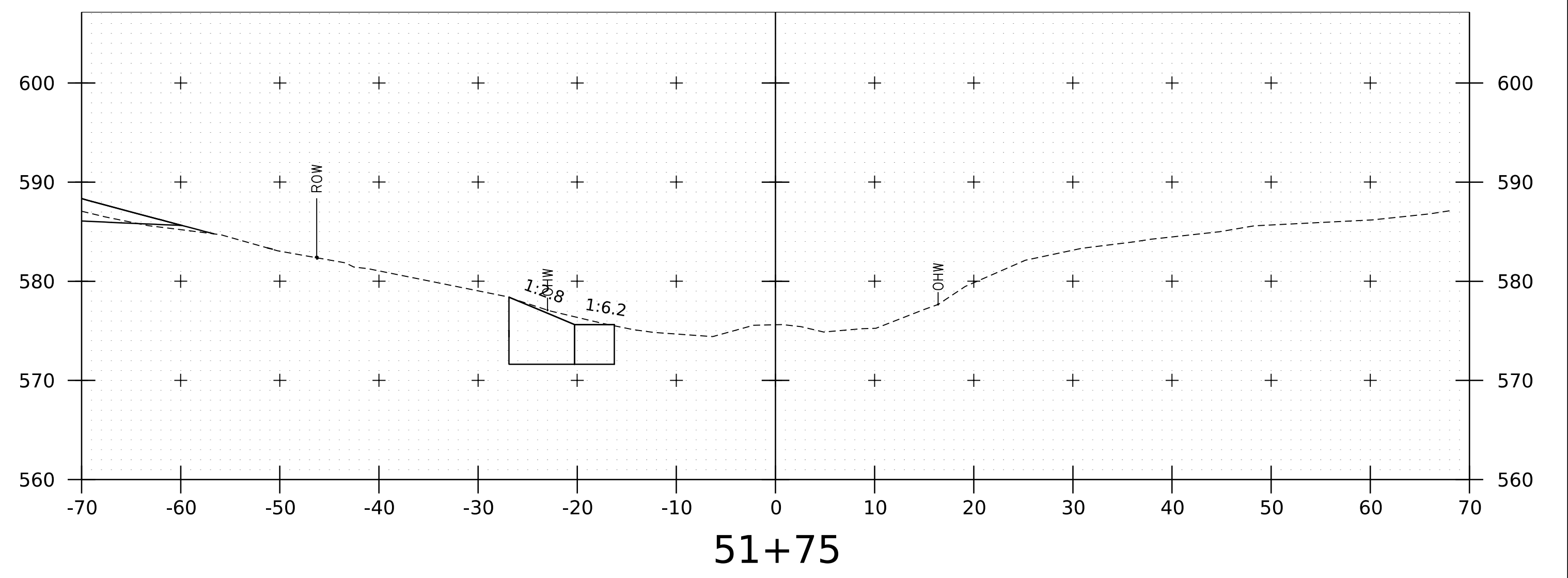
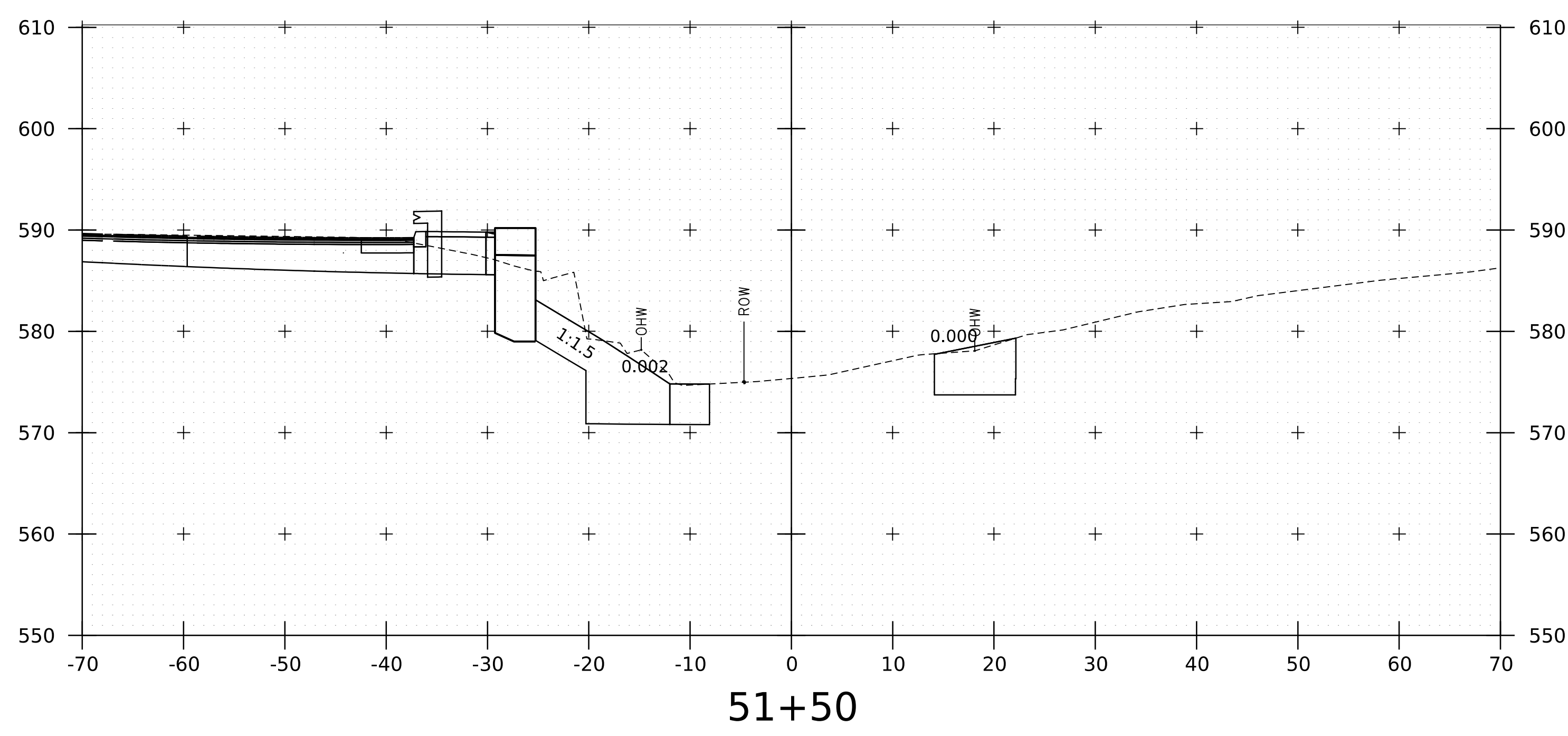
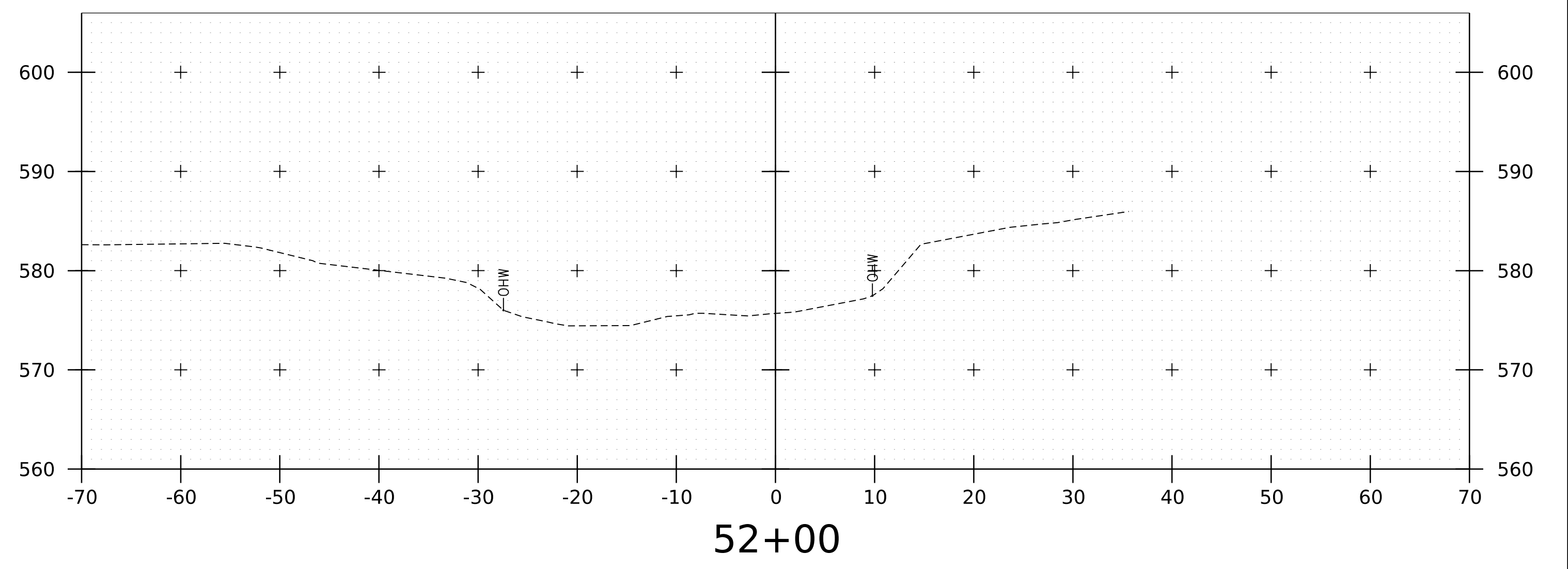
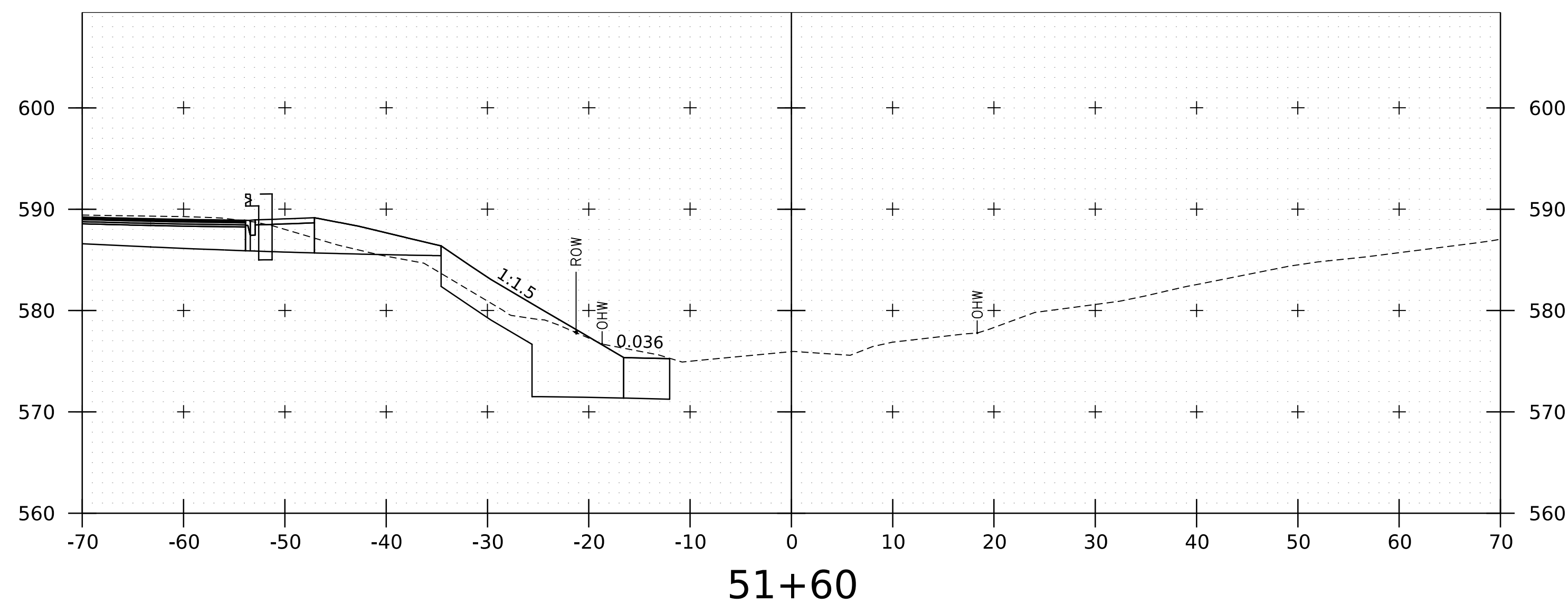


51+10



51+30

PROJECT NAME: JERICHO	
PROJECT NUMBER: BF 0209(10)	
FILE NAME: I2J634/STR/I2J634chxs.dgn	PLOT DATE: 25-JUL-2024
PROJECT LEADER: R.YOUNG	DRAWN BY: G.ROKES
DESIGNED BY: G.ROKES	CHECKED BY: F.BARROWS
CHANNEL SECTIONS SHEET 3	SHEET 44 OF 47



PROJECT NAME: JERICHO	
PROJECT NUMBER: BF 0209(10)	
FILE NAME: I2J634/STR/I2J634chxs.dgn	PLOT DATE: 25-JUL-2024
PROJECT LEADER: R.YOUNG	DRAWN BY: G.ROKES
DESIGNED BY: G.ROKES	CHECKED BY: F.BARROWS
CHANNEL SECTIONS SEET 4	SHEET 45 OF 47

COARSE MILLING, BITUMINOUS PAVEMENT  
STA. 89+75.00 TO 90+25.00  
STA. 93+00.00 TO 93+50.00

STONE LINED DITCH  
STA. 90+00 TO 91+40 RT  
STA. 91+80 TO 92+73 LT

RETAINING WALL, CONCRETE  
STA. 92+06.60 TO 92+45.00 RT

CONSTRUCT DRIVEWAY APRON  
W/ 2" PAVEMENT, 12" SUBBASE  
STA. 93+00.00 - 93+25.00 RT

STONE LINED SWALE  
STA. 92+63 TO 92+99 RT

REMOVE AND RESET MAILBOX,  
SINGLE SUPPORT  
STA. 93+25.60 RT

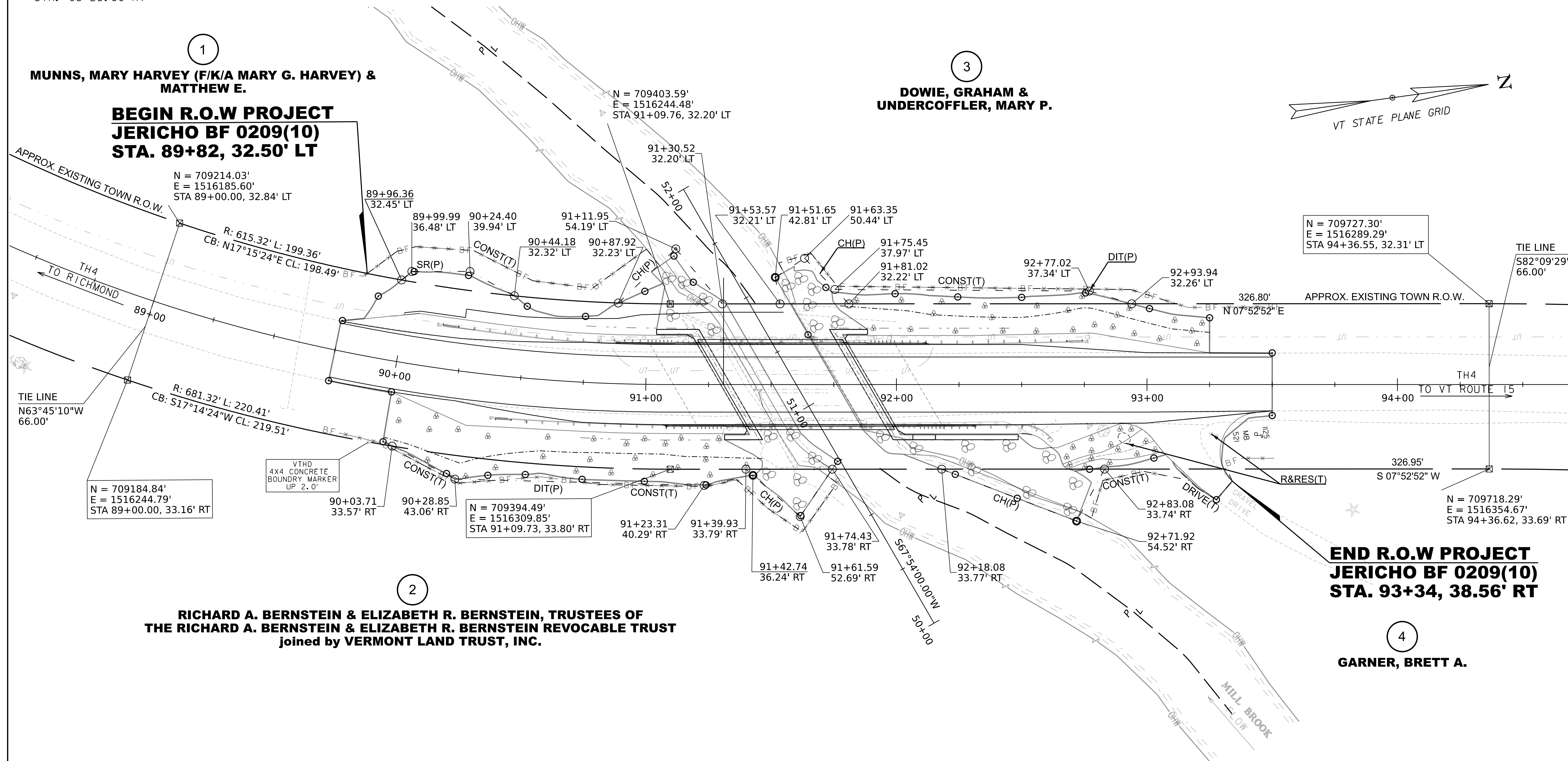
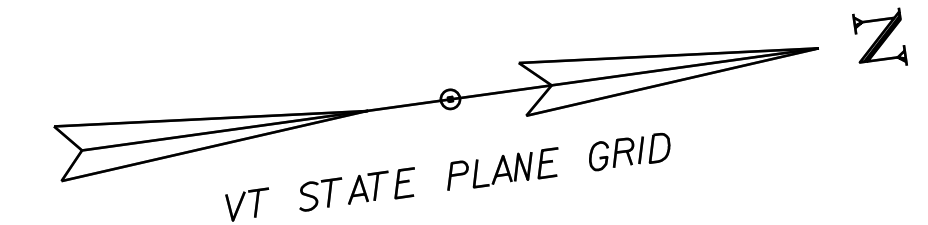
1

**MUNNS, MARY HARVEY (F/K/A MARY G. HARVEY) & MATTHEW E.**

**BEGIN R.O.W PROJECT  
JERICHO BF 0209(10)  
STA. 89+82, 32.50' LT**

3

**DOWIE, GRAHAM & UNDERCOFFLER, MARY P.**



2

**RICHARD A. BERNSTEIN & ELIZABETH R. BERNSTEIN, TRUSTEES OF THE RICHARD A. BERNSTEIN & ELIZABETH R. BERNSTEIN REVOCABLE TRUST  
joined by VERMONT LAND TRUST, INC.**

4

**GARNER, BRETT A.**

EXISTING BRIDGE INFORMATION  
SINGLE SPAN CONCRETE T-BEAM  
BUILT 1927, RECONSTRUCTED 1962  
MAX SPAN = 38'

LINES SHOWN ON THIS PLAN AS EXISTING  
PROPERTY LINES P/L ARE BELIEVED TO  
BE ACCURATE BUT SHOULD NOT BE RELIED  
UPON FOR PURPOSES UNRELATED TO THE  
TOWN OF JERICHO'S ACQUISITION OF LAND  
AND RIGHTS FOR THIS PROJECT.

**FOR R.O.W.  
USE ONLY**

SCALE 1" = 20' - 0"  
20 0 20

PROJECT NAME: JERICHO	PLOT DATE: 25-JUL-2024
PROJECT NUMBER: BF 0209(10)	DRAWN BY: F. BORCH
FILE NAME: r12j634lay.dgn	CHECKED BY: A. PROULX
PROJECT LEADER: R.YOUNG	SHEET 46 OF 47
DESIGNED BY: F.BARROWS	
R.O.W. LAYOUT SHEET	

# RIGHT - OF - WAY DETAIL SHEET

## TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	ROW LAYOUT NO.	BEGINNING STATION	ENDING STATION	FEE ACQUISITION	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA±	AREA±	TYPE	T / P	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
1	MUNNS, MARY HARVEY (F/K/A MARY G. HARVEY) & MATTHEW E.	1	89+82 LT	91+05 LT			CONSTRUCTION	T	979 SF	WDOE	04/29/24	JERICHO	373	793-795	INCL. BF & EC
			89+96.36 LT	90+44.18 LT			SLOPE	P	215 SF						
			90+87.92 LT	91+30.52 LT			CHANNEL	P	458 SF						
2	RICHARD A. BERNSTEIN & ELIZABETH R. BERNSTEIN, TRUSTEES OF THE RICHARD A. BERNSTEIN & ELIZABETH R. BERNSTEIN REVOCABLE TRUST joined by VERMONT LAND TRUST, INC.	1	90+01 RT	90+45 RT			CONSTRUCTION	T	41 SF	WDOE	05/31/24	JERICHO	374	332-335	INCL. BF & EC INCL. STONE FILL INCL. BF & EC INCL. STONE FILL
			90+03.71 RT	91+42.74 RT			DITCH	P	879 SF						
			90+77 RT	91+76 RT			CONSTRUCTION	T	291 SF						
			91+39.93 RT	91+74.43 RT			CHANNEL	P	326 SF						
3	DOWIE, GRAHAM & UNDERCOFFLER, MARY P.	1	91+51.65 LT	91+81.02 LT			CHANNEL	P	319 SF	WDOE	04/22/24	JERICHO	373	732-733	INCL. STONE FILL INCL. BF & EC INCL. STONE FILL
			91+53 LT	93+12 LT			CONSTRUCTION	T	277 SF						
			91+75.45 LT	92+93.94 LT			DITCH	P	577 SF						
4	GARNER, BRETT A.	1	92+18.08 RT	92+83.08 RT			CHANNEL	P	675 SF	WDOE	04/29/24	JERICHO	373	796-798	INCL. STONE FILL INCL. BF & EC BOULDER MAILBOX  UTILITY  UTILITY  UTILITY
			92+74 RT	93+17 RT			CONSTRUCTION	T	133 SF						
			92+91 RT				REMOVE & RESET	T							
			93+12 RT	93+34 RT			DRIVE	T	155 SF						
			93+26 RT				REMOVE & RESET	T							

## TABLE OF REVISIONS

REVISION NO.	ROW SET SHEET #	DESCRIPTION	DATE

PROJECT NAME: JERICHO  
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 DESIGNED BY: F. BORCH  
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 DRAWN BY: M. TROTTIER  
 CHECKED BY: A. PROULX  
 SHEET 47 OF 47