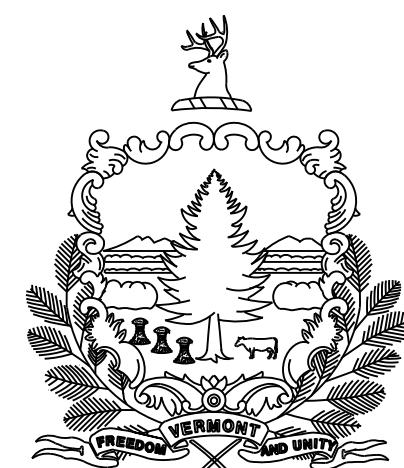


STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT

TOWN OF FAIRFIELD

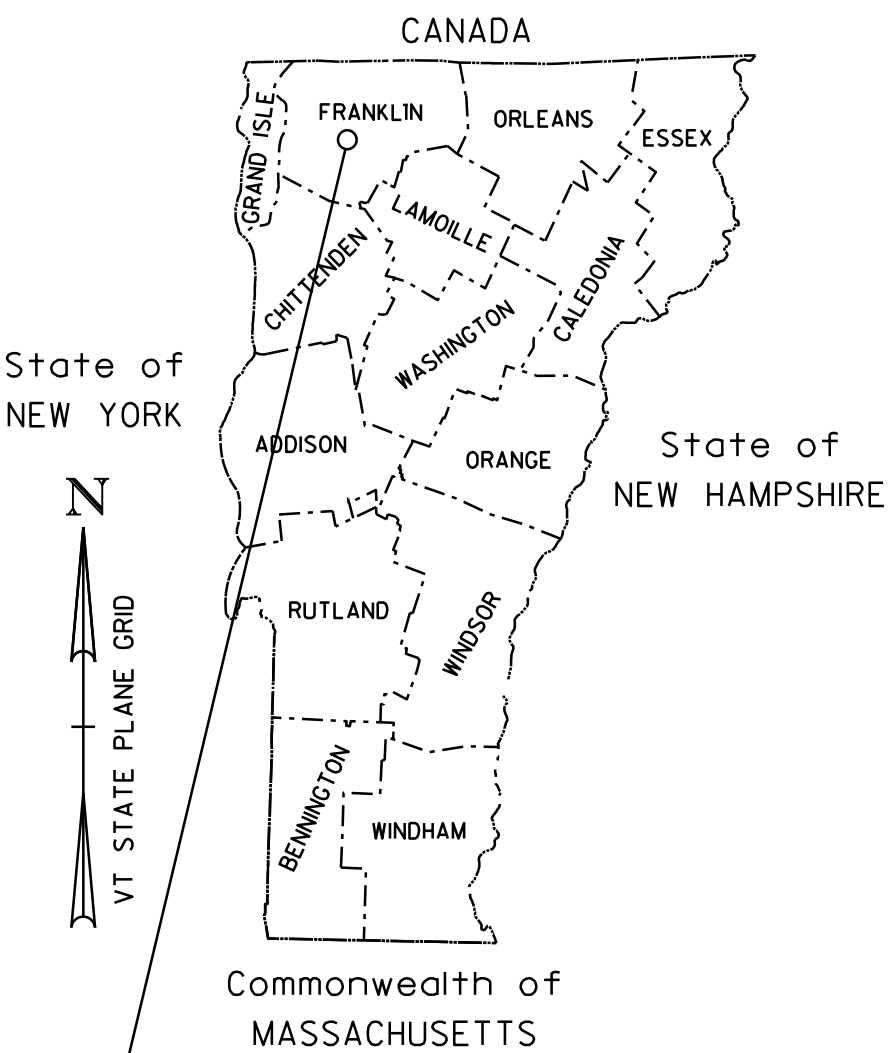
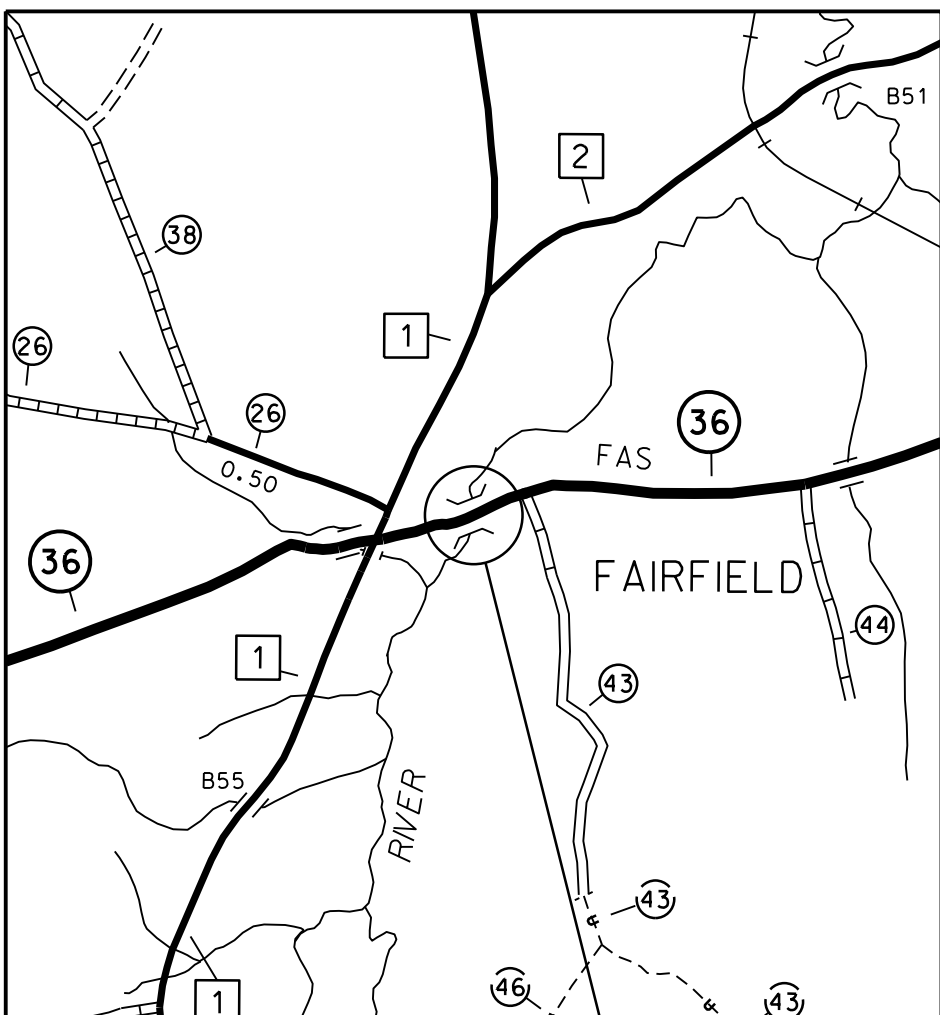
COUNTY OF FRANKLIN

ROUTE NO : VERMONT ROUTE 36 , MAJOR COLLECTOR BRIDGE NO : 6

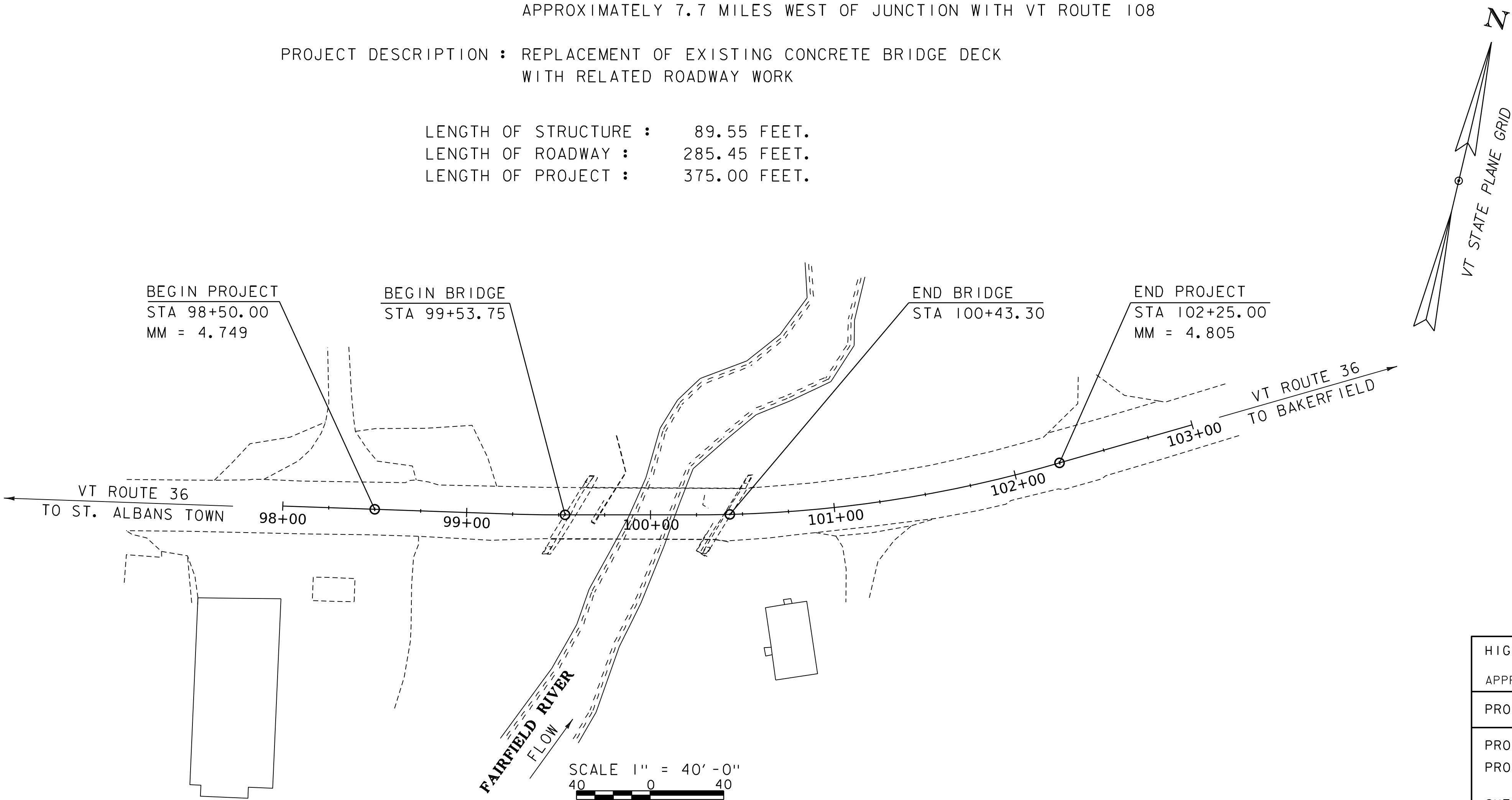
PROJECT LOCATION : IN THE TOWN OF FAIRFIELD ON VT ROUTE 36 OVER FAIRFIELD RIVER
APPROXIMATELY 7.7 MILES WEST OF JUNCTION WITH VT ROUTE 108

PROJECT DESCRIPTION : REPLACEMENT OF EXISTING CONCRETE BRIDGE DECK
WITH RELATED ROADWAY WORK

LENGTH OF STRUCTURE : 89.55 FEET.
LENGTH OF ROADWAY : 285.45 FEET.
LENGTH OF PROJECT : 375.00 FEET.



FAIRFIELD
STP DECK (51)



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 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 :	R. GILMAN
SURVEYED DATE :	03-20-2012
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (2011)

FINAL PLANS
15-MAY-2023

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : ROB YOUNG, P.E.	
PROJECT NAME :	FAIRFIELD
PROJECT NUMBER :	STP DECK (51)
SHEET 1 OF 37 SHEETS	

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version: LRFD

INDEX OF SHEETS

PLAN SHEETS

STANDARDS LIST

DETAIL SHEETS

TRAFFIC DATA

AS BUILT "REBAR" DETAIL

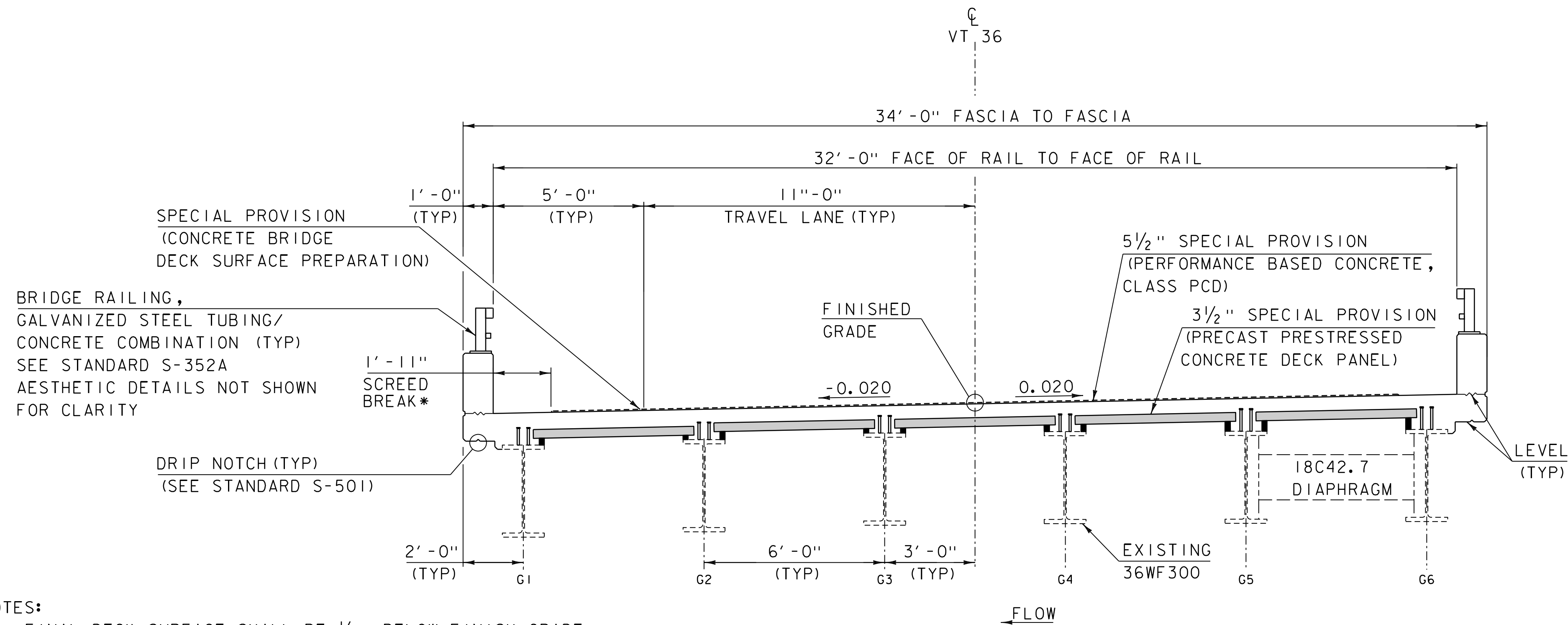
NO HYDRAULIC REPORT

TRAFFIC MAINTENANCE NOTES

DESIGN VALUES

LRFR LOAD RATING FACTORS

PROJECT NAME: FAIRFIELD
PROJECT NUMBER: STP DECK(61)
FILE NAME: s19b218pi.dgn
PLOT DATE: 4/11/2023
PROJECT LEADER: R. YOUNG
DRAWN BY: R. PELLET
DESIGNED BY: C. FRENCH
CHECKED BY: D. PETERSON
PRELIMINARY INFORMATION SHEET
SHEET 2 OF 37

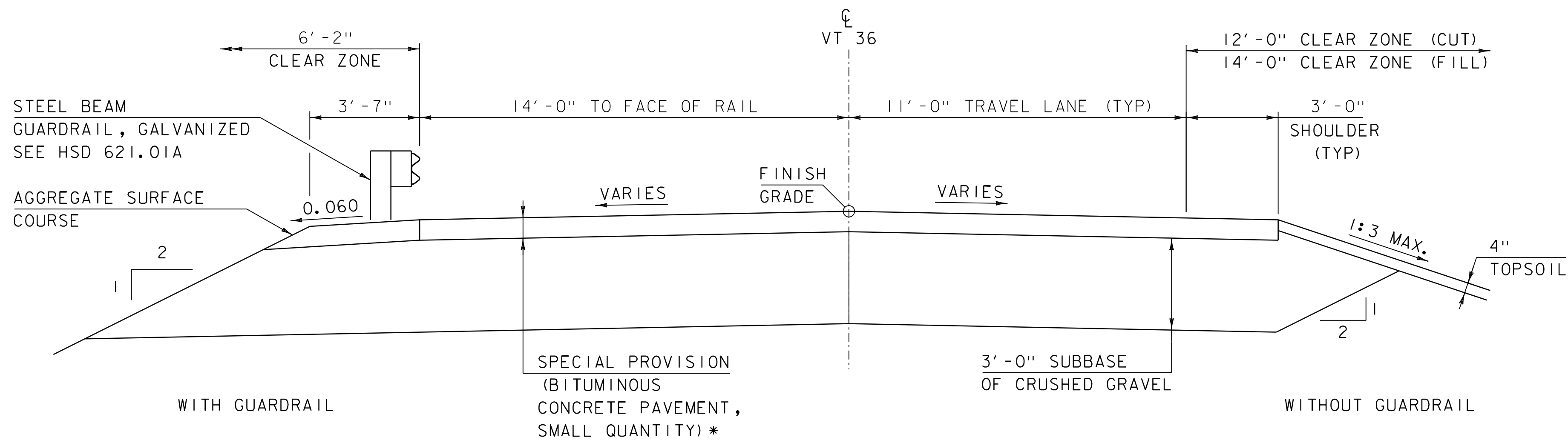


NOTES:
 * FINAL DECK SURFACE SHALL BE 1/2" BELOW FINISH GRADE.
 AESTHETIC TREATMENT (NOT SHOWN FOR CLARITY) SHALL BE APPLIED TO BOTH SIDES OF THE PARAPET WALL.

DECK REPLACEMENT TYPICAL SECTION
 SCALE 3/8" = 1'-0"

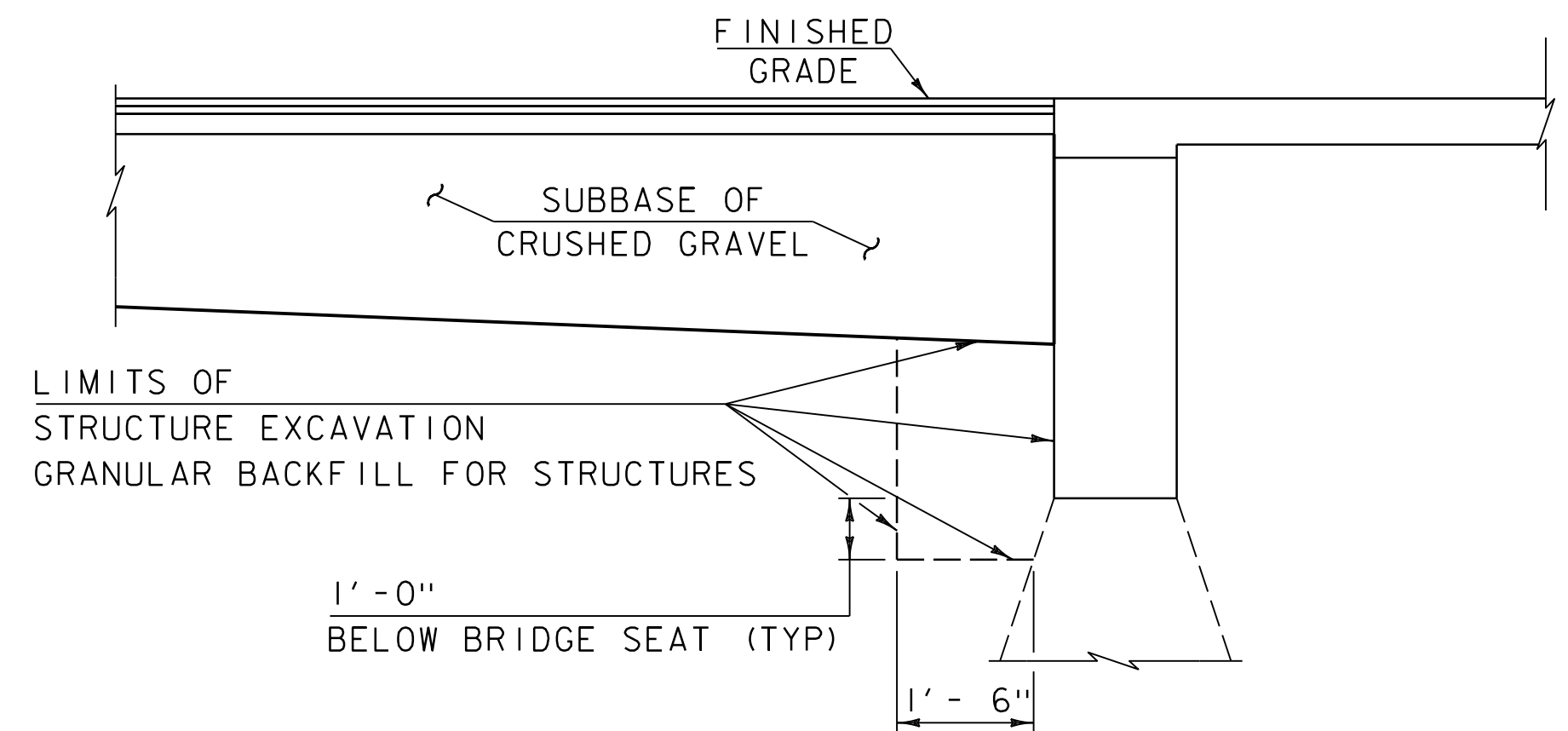
BITUMINOUS CONCRETE PAVEMENT REQUIREMENTS

DESIGN LANE/DESIGN LIFE ESALS	633,750
PERFORMANCE GRADE ASPHALT BINDER	70-28
DESIGN NUMBER OF GYRATIONS	65

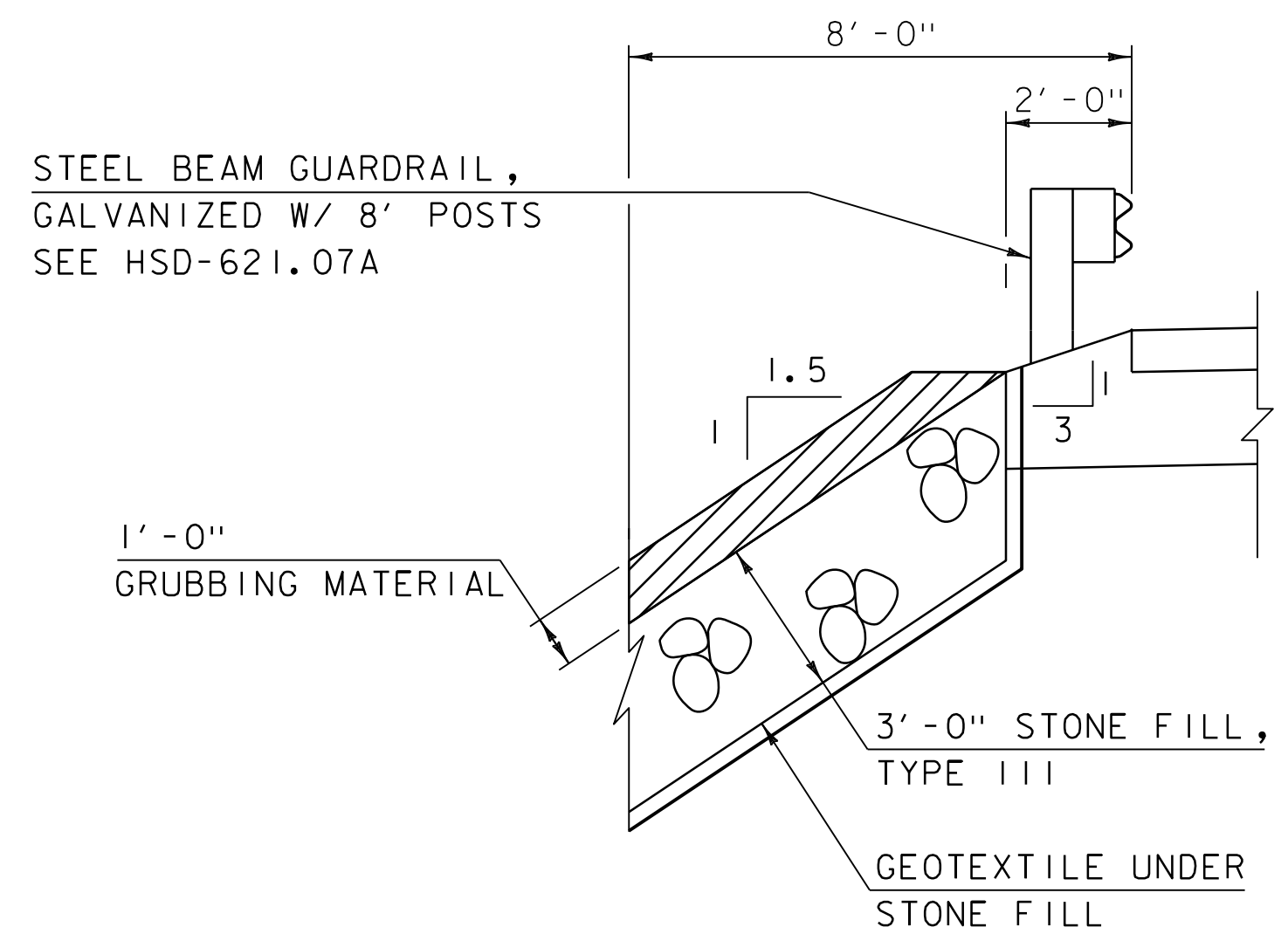


*BITUMINOUS CONCRETE PAVEMENT
 1 1/2" BCP TYPE IVS OVER
 1 1/2" BCP TYPE IVS OVER
 3 1/2" BCP TYPE IIS

PROPOSED VT ROUTE 36 TYPICAL SECTION
 SCALE 3/8" = 1'-0"



ABUTMENT EARTHWORK TYPICAL



STONE FILL TYPICAL
 STA 100+72 - 100+92

MATERIAL TOLERANCES
 (IF USED ON PROJECT)

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

PROJECT NAME: FAIRFIELD
 PROJECT NUMBER: STP DECK(5I)

FILE NAME: sl9b2l8+yp.dgn
 PROJECT LEADER: R. YOUNG
 DESIGNED BY: J. PAQUETTE
 TYPICAL SECTIONS

PLOT DATE: 15-MAY-2023
 DRAWN BY: J. PAQUETTE
 CHECKED BY: D. PETERSON
 SHEET 3 OF 37

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2018, AND ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATION 9th EDITION, DATED 2020, AND ITS LATEST REVISIONS.
2. ALL PRECAST CONCRETE ELEMENTS ARE TO BE FABRICATED TO THE SPECIFIED DIMENSIONS WITHIN THE TOLERANCES DICTATED IN THE PRECAST/ PRESTRESSED CONCRETE INSTITUTE TOLERANCE MANUAL FOR PRECAST AND PRESTRESSED CONCRETE CONSTRUCTION, MNL 135-00, AND ITS LATEST REVISIONS.
3. ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE

DECK REMOVAL

4. ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE" WILL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETELY REMOVE THE EXISTING DECK DOWN TO THE TOP FLANGE OF THE EXISTING BEAMS TO INCLUDE, BUT NOT LIMITED TO, THE CURBS, BRIDGE RAILING, SHEAR STUDS (IF ANY), PAVEMENT, CONCRETE CURTAIN WALL, AND WINGWALLS TO THE LIMITS SHOWN ON THE PLANS.
5. ALL EXISTING BEARINGS SHALL BE REMOVED AND REPLACED WITH NEW PTFE ELASTOMERIC BEARINGS. SHORING OF THE EXISTING BEAMS IN TWO PHASES WILL BE REQUIRED TO DO THIS WORK. SHORING OF THE EXISTING BEAMS SHALL BE PAID FOR UNDER ITEM 502.11, "SHORING SUPERSTRUCTURE BEARINGS".

TRAFFIC CONTROL

6. 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. SPECIFY ALL CONSTRUCTION ACTIVITIES REQUIRING ALTERNATING ONE-WAY TRAFFIC, RELATE THOSE ACTIVITIES TO THE CONSTRUCTION SCHEDULE, AND SHOW APPROPRIATE TEMPORARY TRAFFIC CONTROL. ALL COSTS WILL BE INCLUDED IN ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE".
7. ANY REMOVAL, COVERING AND/OR RESETTING OF EXISTING TRAFFIC SIGNS, AS DEEMED NECESSARY BY THE RESIDENT ENIGNEER, WILL BE INCIDENTAL TO ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE".

EPSC

8. THIS PROJECT WILL UTILIZE THE VT DEC LOW RISK SITE HANDBOOK FOR EPSC. NO SITE-SPECIFIC EPSC PLAN IS INCLUDED. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC EPSC 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, IT SHALL BE PAID FOR AS PART OF ITEM 653.03,"MAINTENANCE OF EPSC PLAN".
9. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION, IN PARTICULAR THE DISCHARGE OF RAW CONCRETE INTO THE FAIRFIELD RIVER, AS DIRECTED BY THE RESIDENT ENGINEER AND STANDARD SPECIFICATIONS SECTION 105.
10. THE EXISTING CONDITIONS SHEET HAS BEEN INCLUDED FOR THE CONTRACTOR TO USE FOR SUBMITTALS.

STRUCTURAL STEEL

11. THE EXISTING STRUCTURAL STEEL IS PAINTED WITH A MATERIAL THAT MAY CONTAIN LEAD. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE REGULATIONS WHEN HANDLING AND WORKING WITH THIS STEEL, AND WHEN HANDLING ANY PAINT REMOVED INTENTIONALLY OR NOT. ANY REMOVED STRUCTURAL STEEL OR PAINT IS THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE, IT'S OFFICERS AND EMPLOYEES HARMLESS CONCERNING THE CONTRACTOR'S USE OR DISPOSITION OF THE REMOVED STRUCTURAL STEEL OR PAINT.
12. IMMEDIATELY AFTER THE EXISTING CONCRETE DECK AND SHEAR STUDS (IF ANY) HAVE BEEN REMOVED, THE CONTRACTOR SHALL TAKE ELEVATIONS ALONG THE TOP OF THE BEAMS, AT 5'-0" INTERVALS. THE ELEVATIONS SHALL THEN BE SENT TO THE PROJECT MANAGER FOR USE IN DETERMINING THE HAUNCH DEPTHS. THE CONTRACTOR SHOULD EXPECT 2 WORKING DAYS FOR VTRANS TO PREPARE THE HAUNCH DEPTH CALCULATIONS.

13. FLEMING BRACKETS OR SIMILAR FALSEWORK SHALL BE SPACED AS REQUIRED BY DESIGN BUT SHALL BE LIMITED TO A MAXIMUM SPACING OF 4 FEET. THE DESIGN OF FALSEWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL EXTEND AT LEAST 75% OF THE WEB DEPTH.
14. ANY BOLT HOLES IN THE WEBS OF FASCIA GIRDERS NOT OTHERWISE FILLED SHALL BE FILLED WITH BUTTON HEAD OR HEX HEAD BOLTS. THE BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH SUBSECTION 506.19 OF THE STANDARD SPECIFICATIONS.
15. THE LOCATION OF THE SHEAR CONNECTORS SHALL BE MARKED OUT BEFORE SURFACE PREPARATION BEGINS. THE CONTACT AREAS SHALL BE CLEANED TO AN EXTENT 1 INCH BEYOND THE BORDER OF EACH OF THE CONNECTED PARTS IN ACCORDANCE WITH ITEM 900.645 "SPECIAL PROVISION (REMOVAL, CONTAINMENT, AND DISPOSAL OF LEAD PAINT) (TYPE II)". THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LEAD ABATEMENT PERMITS. PAYMENT FOR THIS WORK SHALL BE MADE UNDER ITEM 900.645 "SPECIAL PROVISION (REMOVAL, CONTAINMENT, AND DISPOSAL OF LEAD PAINT) (TYPE II)".

CONCRETE

16. THE DECK, CURTAIN WALLS, PARAPET, AND PORTIONS OF THE WINGWALLS ABOVE THE BRIDGE SEAT SHALL BE SPECIAL PROVISION (PERFORMANCE-BASED CONCRETE, CLASS PCD). THE DECK, WINGWALLS, AND CURTAIN WALL SHALL BE PAID FOR UNDER ITEM 900.608, "SPECIAL PROVISION (PERFORMANCE-BASED CONCRETE, CLASS PCD)". THE PARAPET SHALL BE PAID FOR UNDER ITEM 525.45, "BRIDGE RAILING GALVANIZED STEEL TUBING/CONCONCRETE COMBINATION".
17. THE DECK SHALL BE POURED IN ONE CONTINUOUS POUR WITH A MAXIMUM DURATION OF EIGHT HOURS. IF CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL PREVENT THIS FROM BEING ACCOMPLISHED, A TRANSVERSE CONSTRUCTION JOINT SHALL BE USED BETWEEN ADJACENT POURS. A MINIMUM 96 HOUR DELAY BETWEEN ADJACENT POURS SHALL BE OBSERVED.
18. ITEM 514.10, "WATER REPELLENT, SILANE, SHALL BE APPLIED TO ALL EXPOSED CONCRETE ON THE BRIDGE SUPERSTRUCTURE INCLUDING THE DECK, FASCIAS, AND EXISTING SUBSTRUCTURE, WITH THE EXCEPTION OF THE BOTTOM OF THE DECK BETWEEN DRIP NOTCHES.
19. PAY ITEMS "REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS 1 AND CLASS 2" ARE INCLUDED TO BE USED AT THE DISCRETION OF THE ENGINEER.
20. CORK BETWEEN THE WINGWALS AND DECK FASCIA SHALL BE COVERED WITH A POLY JOINT SEALER FROM THE VTRANS APPROVED PRODUCTS LIST. PAYMENT FOR CORK AND JOINT SEALER SHALL BE INCIDENTAL TO ADJACENT CONCRETE ITEM.
21. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1 INCH X 1 INCH.
22. ALL REINFORCING STEEL SHALL BE REINFORCING STEEL, LEVEL I AND PAID FOR UNDER ITEM 507.11, "REINFORCING STEEL, LEVEL I (EPOXY COATED)".
23. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE:

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

24. THE DECK SHALL BE CAST TO AN INITIAL THICKNESS OF 9.5 INCHES. AFTER THE DECK HAS CURED AND THE BRIDGE RAIL IS INSTALLED THE ENTIRE BRIDGE DECK SURFACE SHALL BE DIAMOND GROUND A NOMINAL 0.5 INCH FOR A RESULTING DECK THICKNESS OF 9 INCHES. PAYMENT WILL BE MADE UNDER ITEM 900.670, "SPECIAL PROVISION (CONCRETE BRIDGE DECK SURFACE PREPARATION)." THIS MAY BE ACCOMPLISHED DURING FINISHING OPERATIONS OR THE DECK SURFACE MAY BE TAPERED TO 1/2" BELOW FINISH GRADE AT THE FACE OF CURB DURING FINISHING OPERATIONS IF THE TAPER IS LATER REMOVED BY GRINDING.
25. THE PREFORMED CLOSED CELL FOAM AT BOTH ABUTMENTS SHALL BE CONSIDERED INCIDENTAL TO ITEM 900.608, "SPECIAL PROVISION (PERFORMANCE-BASED CONCRETE, CLASS PCD)".
26. STATIC LOADS MAY BE APPLIED FOR BRIDGE RAIL CONSTRUCTION AFTER THE DECK HAS CURED FOR 3 DAYS AND ATTAINED 85% OF THE COMPRESSIVE STRENGTH. MAINTAIN DECK CURE DURING THESE ACTIVITIES IN ACCORDANCE WITH DECK CURE REQUIREMENTS.

27. A BRIDGE PLAQUE FURNISHED BY THE AGENCY SHALL BE CAST INTO WINGWALL NO. 2. SEE S-502.00 FOR FURTHER DETAILS.

PRECAST PRESTRESSED DECK PANELS

28. PRESTRESSED CONCRETE DESIGN VALUES:

A. CONCRETE COMPRESSIVE STRENGTH: F'C = 5 KSI

B. CONCRETE COMPRESSIVE STRENGTH AT RELEASE: F'CI = 4 KSI

C. PRESTRESSING STRANDS: 0.375 INCH DIAMETER, 270 KSI, LOW-RELAXATION 7-WIRE STRANDS, CONFORMING TO THE REQUIREMENTS OF ASTM A416.

D. JACKING FORCE PER PRESTRESSING STRAND = 17.2 KIPS

E. ASSUMED MODULUS OF ELASTICITY FOR THE STRAND IS 28,500 KSI.
29. THE TOP SURFACE OF THE PANELS SHALL BE BROOMED TO A SURFACE ROUGHNESS OF 0.0625 IN. BROOM THE SURFACE PARALLEL TO THE STRAND.
30. INSTALLATION OF THE PRESTRESSED DECK PANELS SHALL BE IN ACCORDANCE WITH VTRANS SPECIFICATION 510.11(B).
31. TEMPORARY BRACING BETWEEN PANELS SHALL BE PROVIDED AS REQUIRED TO PREVENT PANEL MOVEMENT TRANSVERSE TO THE GIRDERS.
32. ALL COSTS ASSOCIATED WITH PROVIDING AND PLACING BEDDING STRIPS AND MATERIAL FOR HAUNCH POURS SHALL BE INCLUDED IN THE BID PRICE FOR SPECIAL PROVISION ITEM 900.670 "(PRECAST PRESTRESSED CONCRETE DECK PANEL) (3 ½)".
33. THE MATERIAL USED FOR THE HAUNCH POUR SUPPORTING THE PANELS SHALL BE ITEM 541.21, "CONCRETE, CLASS AA". THE HAUNCH POUR SHALL BE ALLOWED TO CURE FOR A MINIMUM OF 3 DAYS PRIOR TO PLACING THE CONCRETE DECK AND SHALL BE PAID FOR UNDER SPECIAL PROVISION ITEM 900.670 "(PRECAST PRESTRESSED CONCRETE DECK PANEL) (3 ½)".
34. REGARDLESS OF THE CURING METHOD FOR THE HAUNCH POUR, THE TOP AND SIDE SURFACES OF THE PANELS SHALL BE FULLY SATURATED FOR 3 DAYS AFTER THE HAUNCH POUR AND PRIOR TO THE OVER POUR. THE PROCEDURE OF THE WETTING METHOD SHALL BE DETERMINED BY CONTRACTOR AND SUBMITTED FOR APPROVAL TO THE RESIDENT ENGINEER.
35. THE CONTRACTOR IS ADVISED THAT DURING THE PLACEMENT OF CONCRETE FOR THE TOP PORTION OF THE DECK, THE EXTERIOR GIRDERS MAY DEFLECT MORE THAN THE INTERIOR GIRDERS DUE TO THE PANEL DEAD LOAD DISTRIBUTION.

PAVEMENT

36. AT BEGIN AND END BRIDGE JOINTS, PRIOR TO GRINDING, THE 9.5 INCH DECK WILL BE 0.5 INCHES HIGHER THAN THE WEARING COURSE. INSTALL A TEMPORARY TAPER OR WEDGE OF BUTUMINOUS CONCRETE PAVEMENT AT A MINIMUM SLOPE OF 1:30 PRIOR TO ALLOW TRAFFIC ON THE JOINT. TAPER AND/OR WEDGE SHALL BE REMOVED WHEN DECK GRINDING OCCURS.

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(5I)	
FILE NAME: sl9B2l8notes.dgn	PLOT DATE: 15-MAY-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
PROJECT NOTES	SHEET 4 OF 37

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS					
								1011 - ROADWAY	1051 - EROSION CONTROL	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND
								1				1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	
								1101				1101		CY	COMMON EXCAVATION	203.15	
								9				9		CY	EARTH BORROW	203.30	
								180				180		CY	TRENCH EXCAVATION OF EARTH	204.20	
								1				1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	
										30		30		CY	STRUCTURE EXCAVATION	204.25	
								175		30		205		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	
								340				340		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.10	
								859				859		CY	SUBBASE OF CRUSHED GRAVEL, COARSE GRADED	301.25	
								50				50		CY	AGGREGATE SURFACE COURSE	401.10	
								8				8		CWT	EMULSIFIED ASPHALT	404.65	
								120				120		SY	HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES	406.38	
										12		12		EACH	SHORING SUPERSTRUCTURE BEARINGS	502.11	
										19023		19023		LB	REINFORCING STEEL, LEVEL I (EPOXY COATED)	507.11	
										64		64		LF	DRILLING AND GROUTING DOWELS	507.16	
										1		1		LS	SHEAR CONNECTORS (1272 - 7/8 INCH X 7 INCH)	508.15	
										33		33		GAL	WATER REPELLENT, SILANE	514.10	
										76		76		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	
										180		180		LF	BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION	525.45	
										1		1		EACH	PARTIAL REMOVAL OF STRUCTURE	529.20	
										12		12		EACH	BEARING DEVICE ASSEMBLY, ELASTOMERIC PAD W/ EXT. LOAD PLATES	531.18	
										5		5		SY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS I	580.13	
										5		5		SY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS II	580.14	
								61				61		LF	18" CPEP(SL)	601.2615	
								102				102		LF	24" CPEP(SL)	601.2620	
								2				2		EACH	CONCRETE CATCH BASIN WITH CAST IRON GRATE	604.10	
								612				612		LF	UNDERDRAIN PIPE, 6 INCHES	605.10	
								102				102		LF	UNDERDRAIN CARRIER PIPE, 6 INCHES	605.20	
								64				64		MGAL	DUST CONTROL WITH WATER	609.10	
								30				30		CY	STONE FILL, TYPE II	613.11	
								90				90		CY	STONE FILL, TYPE III	613.12	
								1				1		EACH	REMOVE AND RESET MAILBOX, SINGLE SUPPORT	617.10	
								57				57		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	
								88				88		LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	
								3				3		EACH	MANUFACTURED TERMINAL SECTION, FLARED	621.50	
								1				1		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60	
								2				2		EACH	GUARDRAIL APPROACH SECTION TO CONC COMB BRIDGE RAILING TL-3	621.748	
								2				2		EACH	GUARDRAIL APPROACH SECTION TO CONC COMB BRIDGE RAILING TL-3 (WITH 8 FOOT PD	621.748	
								250				250		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	
								2				2		EACH	ADJUST ELEVATION OF VALVE BOX	629.20	

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		EARTHWORKS SUMMARY
		FILL AVAILABLE
1101	CY	COMMON EXCAVATION (1109 x 1.0)
3	CY	TRENCH EXCAVATION (176 x 0.3)
	CY	STRUCTURE EXCAVATION (30 x 0.3)
0.2	CY	ROUNDING
1104.2	CY	TOTAL FILL AVAILABLE
		FILL REQUIRED
0	CY	FACTORED FILL (x 1.15)
0	CY	ROUNDING
0	CY	TOTAL FILL REQUIRED
0	CY	TOTAL EARTH BORROW REQUIRED
		SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)
195	TON	TYPE IIS BASE COURSES
209	TON	TYPE IVS WEARING COURSE

PROJECT NAME:	FAIRFIELD
PROJECT NUMBER:	STP DECK(5I)

FILE NAME: si8b2i8VT36q+y.dgn	PLOT DATE: 15-MAY-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
QUANTITY SHEET 1	SHEET 5 OF 37

STATE OF VERMONT AGENCY OF TRANSPORTATION														QUANTITY SHEET 2													
SUMMARY OF ESTIMATED QUANTITIES												TOTALS		DESCRIPTORS				DETAILED SUMMARY OF QUANTITIES									
									1011 - ROADWAY	1051 - EROSION CONTROL	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS						
									50				50		HR	UNIFORMED TRAFFIC OFFICERS	630.10				NOT A BID ITEM						
									100				100		HR	FLAGGERS	630.15				NOT A BID ITEM						
												1	1		LS	FIELD OFFICE, ENGINEERS	631.10										
												1	1		LS	TESTING EQUIPMENT, CONCRETE	631.16										
												1	1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17										
												3000	3000		DL	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	631.26										
									8				8		EACH	CPM SCHEDULE	633.10										
									1				1		LS	MOBILIZATION/DEMOBILIZATION	635.11										
									1				1		LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.11										
									951				951		LF	4 INCH WHITE LINE, WATERBORNE PAINT	646.201										
									950				950		LF	4 INCH YELLOW LINE, WATERBORNE PAINT	646.2111										
									487				487		SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.11										
									148				148		SY	GEOTEXTILE UNDER STONE FILL	649.31										
									133				133		SY	GEOTEXTILE FOR UNDERDRAIN TRENCH LINING	649.41										
										10			10		LB	SEED	651.15										
										50			50		LB	FERTILIZER	651.18										
										0.25			0.25		TON	AGRICULTURAL LIMESTONE	651.20										
										50			50		CY	TOPSOIL	651.35										
										1			1		LS	EPSC PLAN	653.01										
										40			40		HR	MONITORING EPSC PLAN	653.02										
										1			1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	653.03										
										0.25			0.25		TON	HAY MULCH	653.10										
										150			150		LF	BARRIER FENCE	653.50										
									536				536		LF	PROJECT DEMARCATION FENCE	653.55										
									1				1		LS	TREE PROTECTION	656.85										
									4				4		EACH	REMOVING SIGNS	675.50										
									4				4		EACH	RESETTING SIGNS	675.60										
											83		83		CY	SPECIAL PROVISION (PERFORMANCE-BASED CONCRETE, CLASS PCD)	900.608										
									33600				33600		DL	SPECIAL PROVISION (INCENTIVE/DISINCENTIVE)	900.615										
											1		1		LS	SPECIAL PROVISION REMOVAL, CONTAINMENT, AND DISPOSAL OF LEAD PAINT)(TYPE II)	900.645										
									1				1		LU	SPECIAL PROVISION (MATERIAL PAY ADJUSTMENT, SMALL QUANTITY)(N.A.B.I.)	900.650										
									1				1		LU	SPECIAL PROVISION (MIXTURE PAY ADJUSTMENT, SMALL QUANTITY)(N.A.B.I.)	900.650										
											2134		2134		SF	SPECIAL PROVISION (PRECAST PRESTRESSED CONCRETE DECK PANEL)(3 1/2 INCH)(FPC	900.670										
											3036		3036		SF	SPECIAL PROVISION (CONCRETE BRIDGE DECK SURFACE PREPARATION)	900.670										
									410				410		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680										

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
■	BDNS	BOUND SET
▣	BDNS	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
xxxxxxxxxxxxxxxxxxxx				TREE PROTECTION ZONE (TPZ)
//////////				STRIPING LINE REMOVAL
~~~~~				SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLGY

BOUNDARY LINES

—————	TOWN LINE	—————	TOWN BOUNDARY LINE
—————	COUNTY LINE	—————	COUNTY BOUNDARY LINE
—————	STATE 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	
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
▣	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
× — × — × — × —	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:	FAIRFIELD
PROJECT NUMBER:	STP DECK(5I)
FILE NAME:	sl9b2l8legend.dgn
PROJECT LEADER:	R. YOUNG
DESIGNED BY:	R. PELLETT
CONVENTIONAL SYMBOLGY LEGEND	
PLOT DATE:	15-MAY-2023
DRAWN BY:	R. PELLETT
CHECKED BY:	D. PETERSON
SHEET	7 OF 37



PRIMARY CONTROL

HVCTRL #1  
NORTH = 839564.8270  
EAST = 1526986.1980  
ELEV. = 491.2900

TO REACH FROM THE INTERSECTION OF ROUTES 104 AND 36 IN ST ALBANS, GO EAST ON ROUTE 36 FOR 6.7 MI (10.8 KM) TO THE INTERSECTION OF NORTH AND SOUTH ROADS. CONTINUE EAST ON ROUTE 36 FOR 0.4 MI (0.6 KM) TO THE INTERSECTION OF GILBERT HILL ROAD RIGHT. TURN RIGHT AND GO SOUTH ON GILBERT HILL ROAD FOR ABOUT 0.1 MI (0.2 KM) TO THE SITE OF THE MARK ON THE RIGHT.

THE MARK IS A 3/4 INCH (19 MM) REBAR WITH RED PLASTIC CAP SET FLUSH WITH THE GROUND SURFACE.

IT IS 5.4 M (17.7 FT) WEST OF THE CENTERLINE OF GILBERT HILL ROAD, 18.1 M (59.4 FT) WEST-NORTHWEST OF AND ACROSS THE ROAD FROM POLE 15T/9/183 AND 5.9 M (19.4 FT) SOUTH OF A NO OUTLET SIGN.

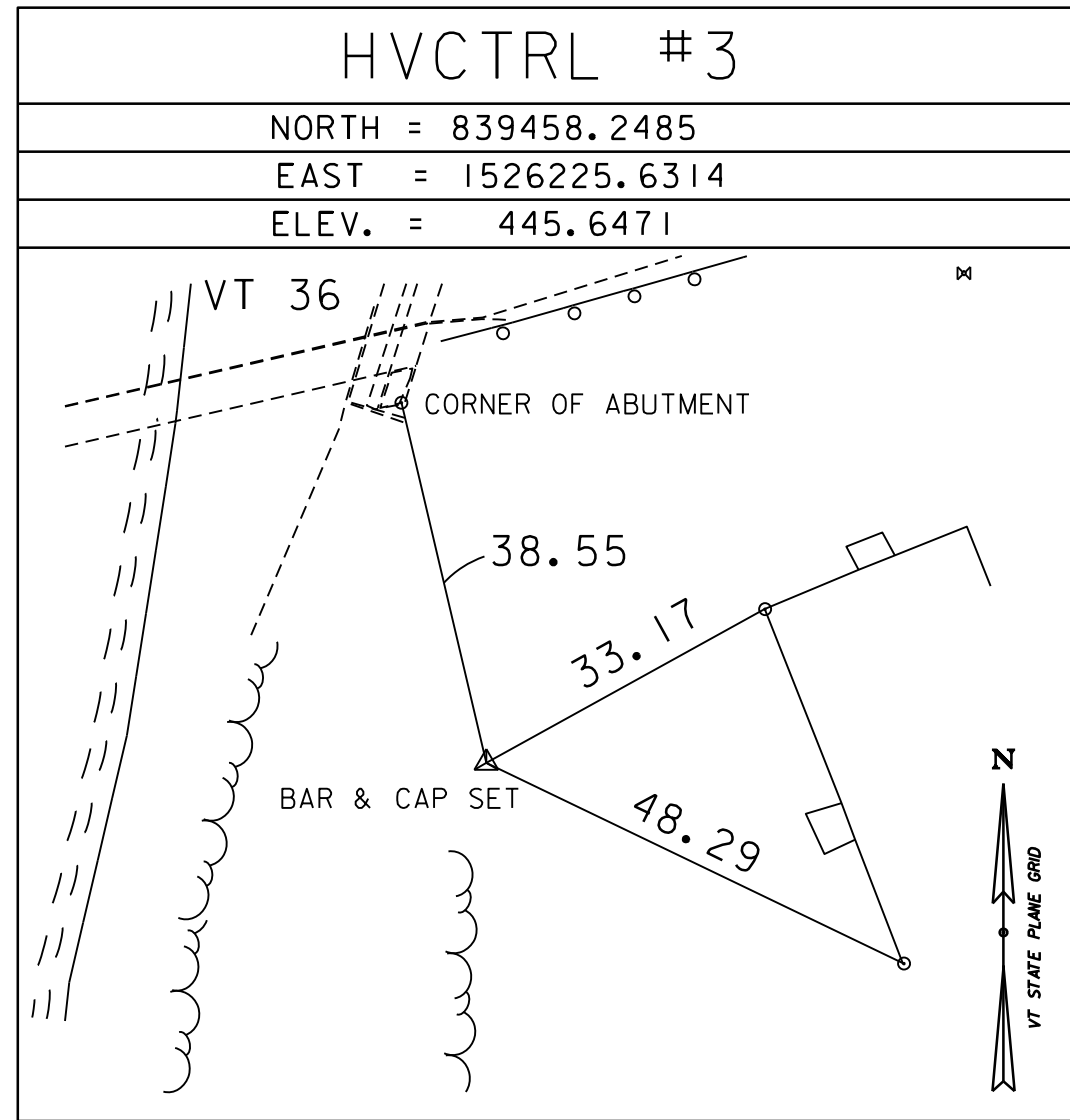
HVCTRL #2  
NORTH = 839482.3860  
EAST = 1525922.8210  
ELEV. = 459.3800

TO REACH FROM THE INTERSECTION OF ROUTES 104 AND 36 IN ST ALBANS, GO EAST ON ROUTE 36 FOR 6.7 MI (10.8 KM) TO THE INTERSECTION OF NORTH AND SOUTH ROADS. CONTINUE EAST ON ROUTE 36 FOR 0.2 MI (0.3 KM) TO THE SITE OF THE MARK ON THE LEFT AT THE WEST END OF A GRAVEL PULLOUT.

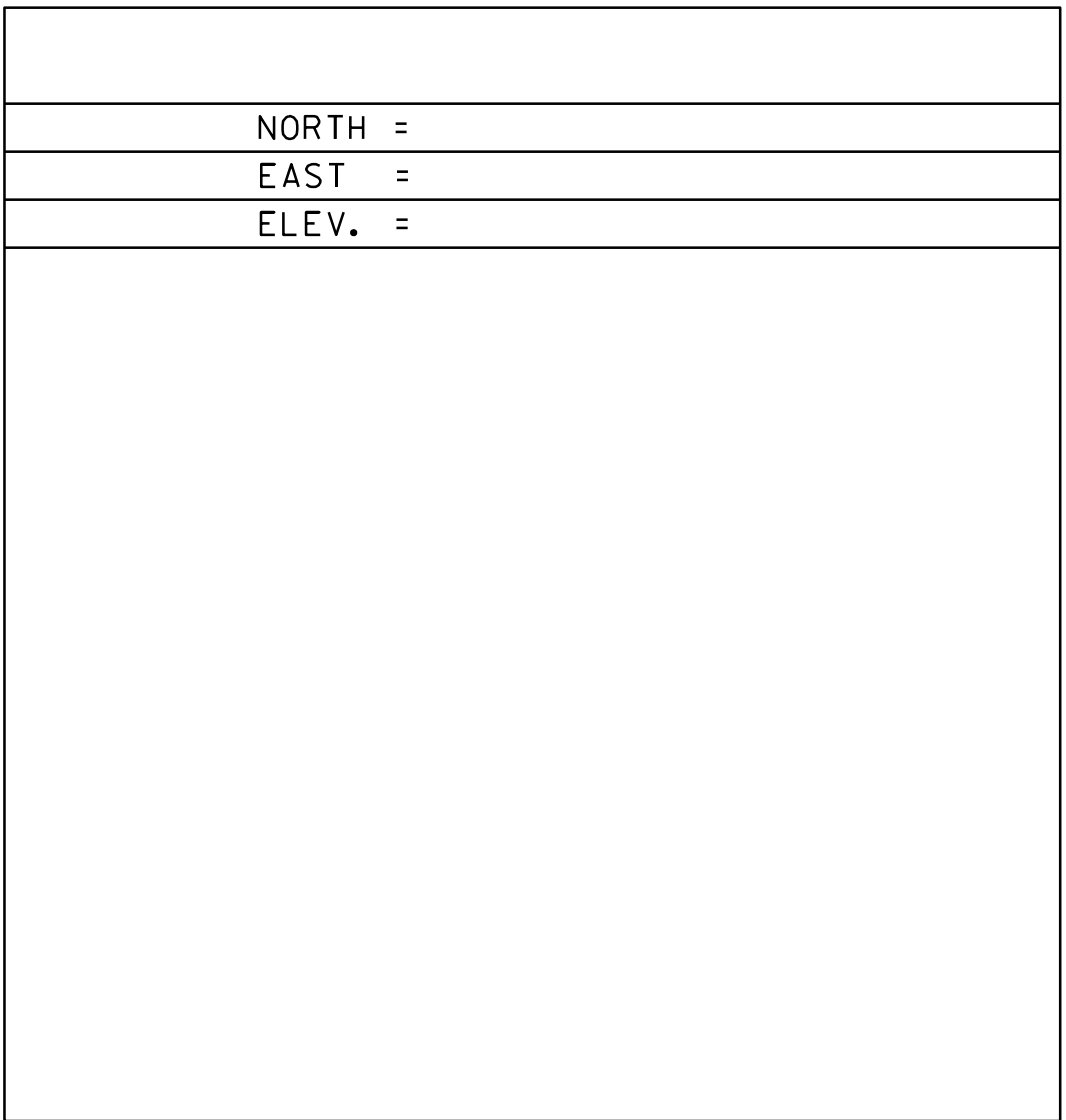
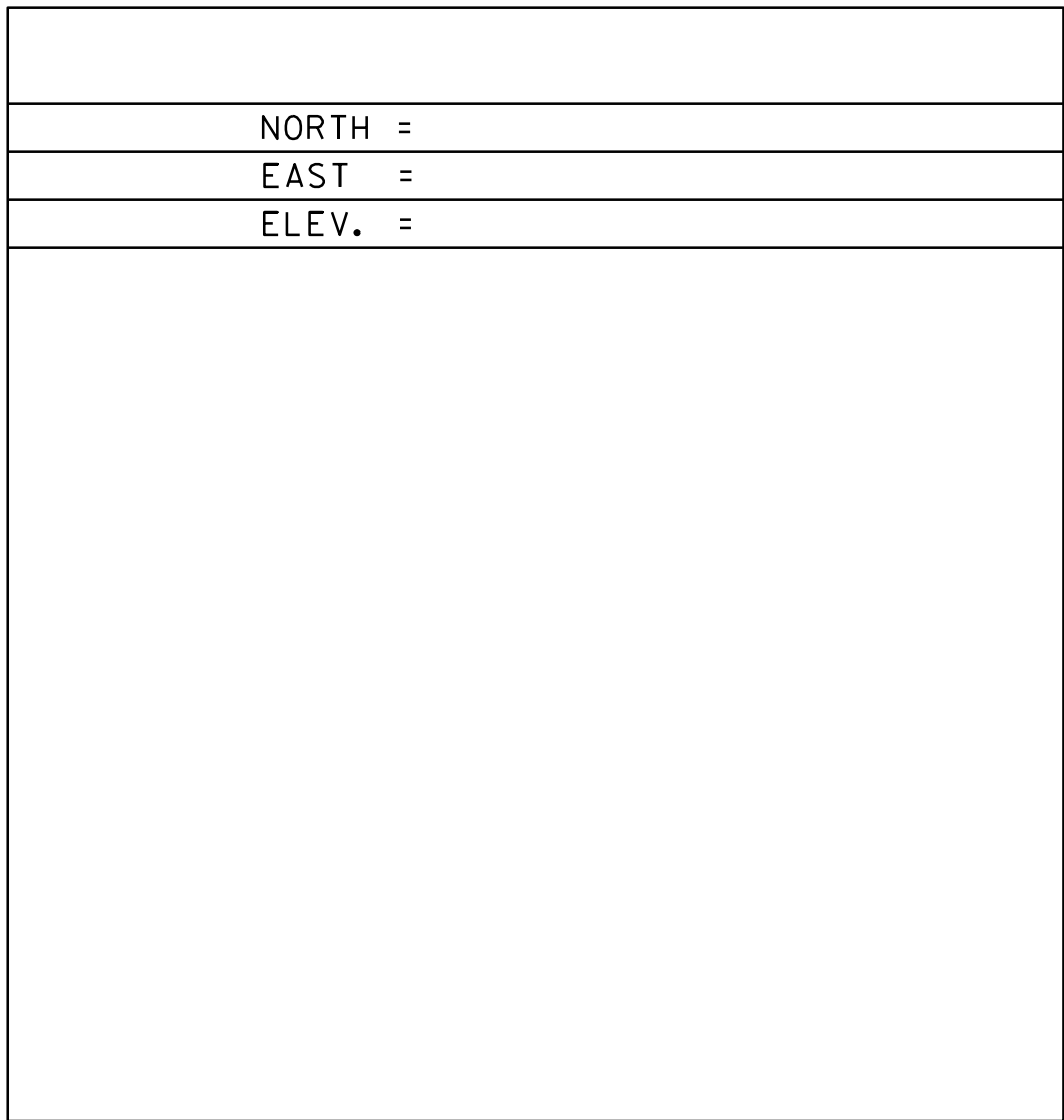
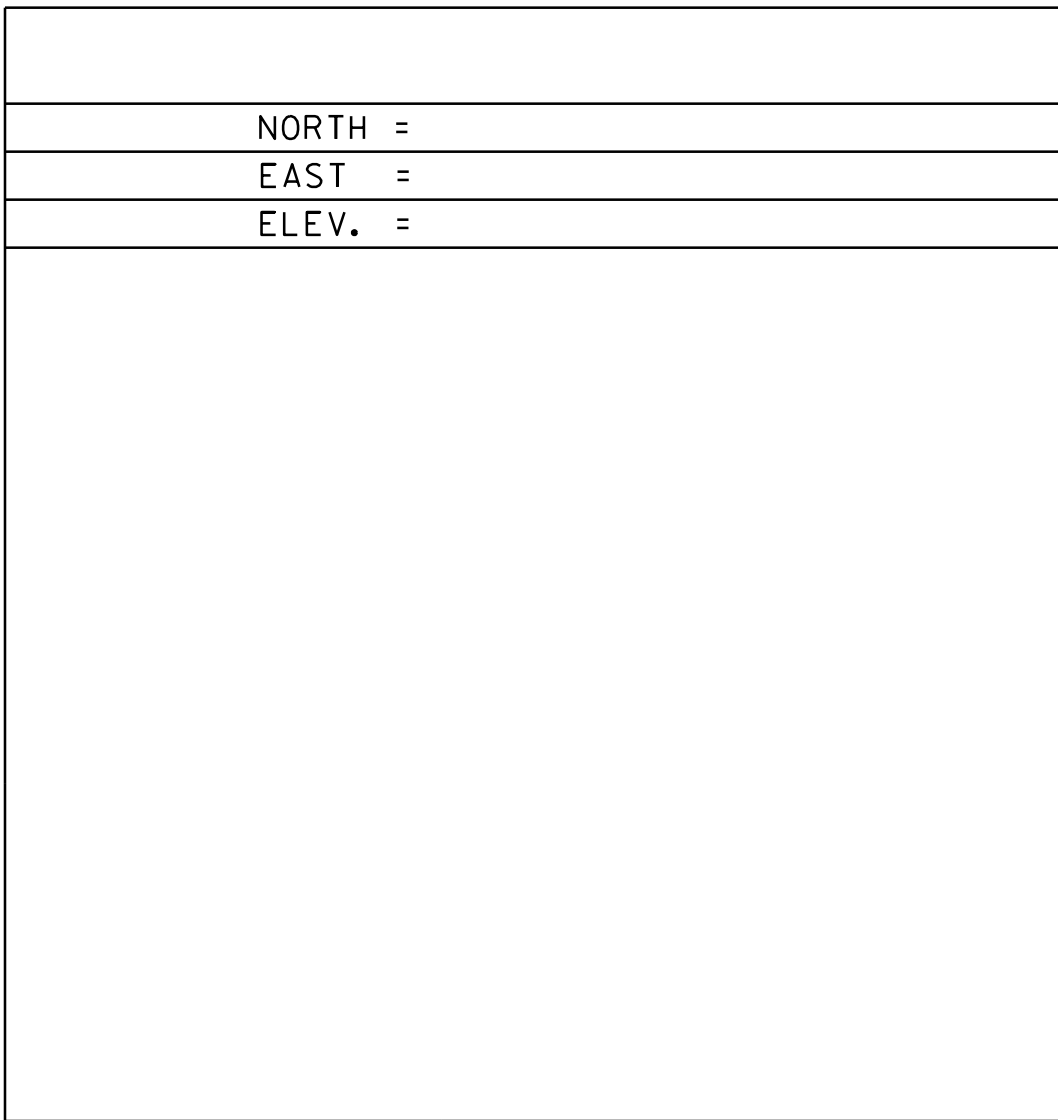
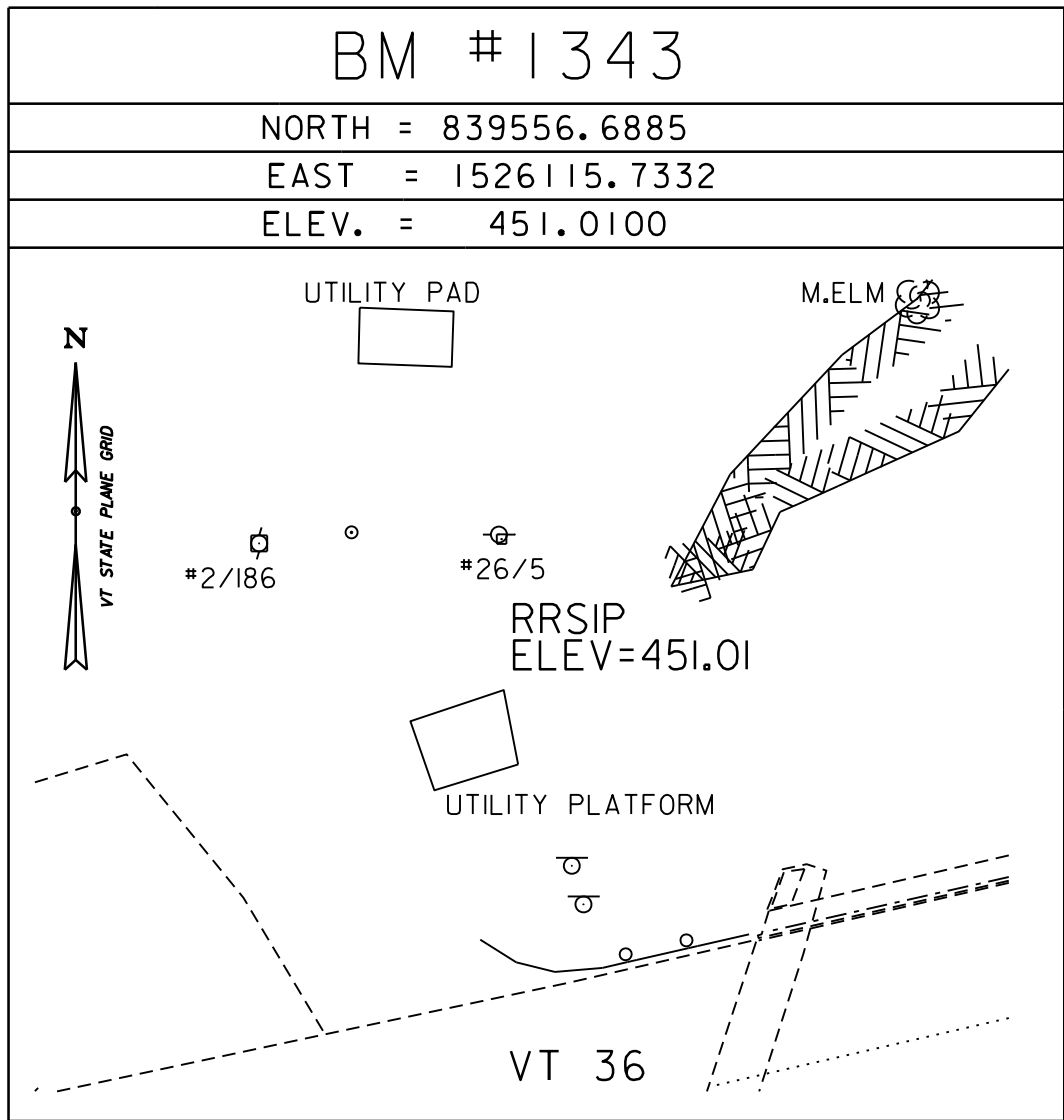
THE MARK IS A 3/4 INCH (19 MM) REBAR WITH RED PLASTIC CAP SET 2 INCHES (5 CM) BELOW GROUND SURFACE.

IT IS 8.7 M (28.5 FT) NORTH OF AND ABOUT LEVEL WITH THE CENTERLINE OF ROUTE 36, 4.1 M (13.5 FT) SOUTHWEST OF A CONCRETE PROJECT MARKER POST, 13.0 M (42.7 FT) SOUTHWEST OF POLE 2/187A AND 27.8 M (91.2 FT) WEST OF THE CENTERLINE OF THE DRIVEWAY LEADING TO THE CHESTER ARTHUR APARTMENTS.

SECONDARY CONTROL



* MAIN TRAVERSE COMPLETED ON 1/23/2020 BY R.GILMAN T.CATTANEO AND H.MCGOWAN



ALIGNMENT TIES

VT ROUTE 36

	STATION	NORTHING	EASTING		STATION	NORTHING	EASTING
	POB 98+00.00	839467.9030	1525986.6000	PC	100+25.354	839514.9540	1526206.9570
	PC 99+23.505	839492.0070	1526107.7310		Radius:	700.00	
					Delta:	16°01'02" Right	
					Degree of Curvature (Arc):	08°11'06"	
					Length:	195.69	
					Tangent:	98.49	
					External:	6.89	
				PT	102+21.042	839585.7170	1526388.7190
	PT 99+48.043	839497.2170	839497.2170	POE	103+00.00	839624.3360	1526457.5940

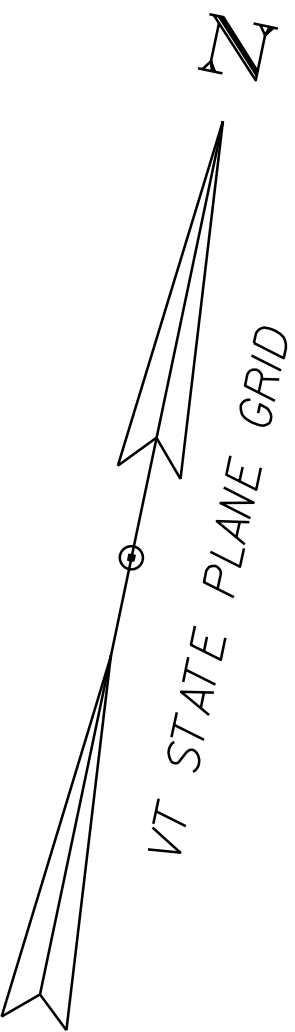
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD83 (2011)
ADJUSTMENT	COMPASS

PROJECT NAME:	FAIRFIELD	PLOT DATE:	15-MAY-2023
PROJECT NUMBER:	STP DECK(5I)	DRAWN BY:	H. MCGOWAN
FILE NAME:	s19b218T1.dgn	CHECKED BY:	R. GILMAN
PROJECT LEADER:	R. YOUNG	SHEET	8 OF 37
DESIGNED BY:	SURVEY		
TIE SHEET			



SOIL INFORMATION:  
FARMINGTON ROCK OUTCROP  
COMPLEX, K=0.32  
6-15% SLOPES  
HYDROLOGIC GROUP: D

SOIL INFORMATION:  
MUNSON SILT LOAM, VERY  
ROCKY K = 0.49,  
8-15% SLOPES  
HYDROLOGIC GROUP: C/D



N/F  
**HOWRIGAN,  
RICHARD J. & KATHLEEN A.**

N/F  
**CHESTER A. ARTHUR  
ASSOCIATES**

**SAYLOR, CHRISTOPHER**

N/F  
**OHLIGER,  
RICHARD & MARTHA**

**OHLIGER,  
RICHARD; OHLIGER, JOHN**

N/F  
**JCS HOLDINGS, LLC**

SOIL INFORMATION:  
WESTBURY STONY FINE  
SANDY LOAM K = 0.20,  
8-15% SLOPES  
HYDROLOGIC GROUP: D

SOIL INFORMATION:  
PERU FINE SANDY LOAM  
K = 0.37, 8-15% SLOPES  
HYDROLOGIC GROUP: C/D

PROJECT NAME: **FAIRFIELD**  
PROJECT NUMBER: **STP DECK(5I)**

FILE NAME: sl9b2l8epsc.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: J. PAQUETTE  
EXISTING CONDITIONS

PLOT DATE: 15-MAY-2023  
DRAWN BY: J. PAQUETTE  
CHECKED BY: D. PETERSON  
SHEET 9 OF 37

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



4 INCH WHITE LINE, WATERBORNE PAINT

98+00.00 - 102+75.00 LT & RT

4 INCH YELLOW LINE, WATERBORNE PAINT

98+00.00 - 102+75+00.00

PAVED APRONS

98+00.00 - 98+80.00 RT  
102+23.28 - 102+75.00 RT

REMOVE MAILBOX

100+92.00 RT

REMOVE AND RESET SIGNS

99+16.83 RT  
99+24.09 RT  
99+45.63 LT  
100+54.03 LT

TYPE II STONE FILL

99+27.77 - 99+77.76 LT  
99+30.00 - 99+42.12 RT

REMOVE AND REPLACE DI

101+54.74 RT  
102+08.00 RT

TYPE III STONE FILL

100+55.15 LT - 100+86.96 LT

UNDERDRAIN PIPE, 6"

101+19.28 LT - 101+54.10 RT

UNDERDRAIN CARRIER PIPE, 6"

101+55.75 - 102+55.78 RT

18" CPEP DIAMETER (SL)

101+55.75 - 102+06.05 RT  
102+09.94 - 102+55.78 RT

SAVE TREE

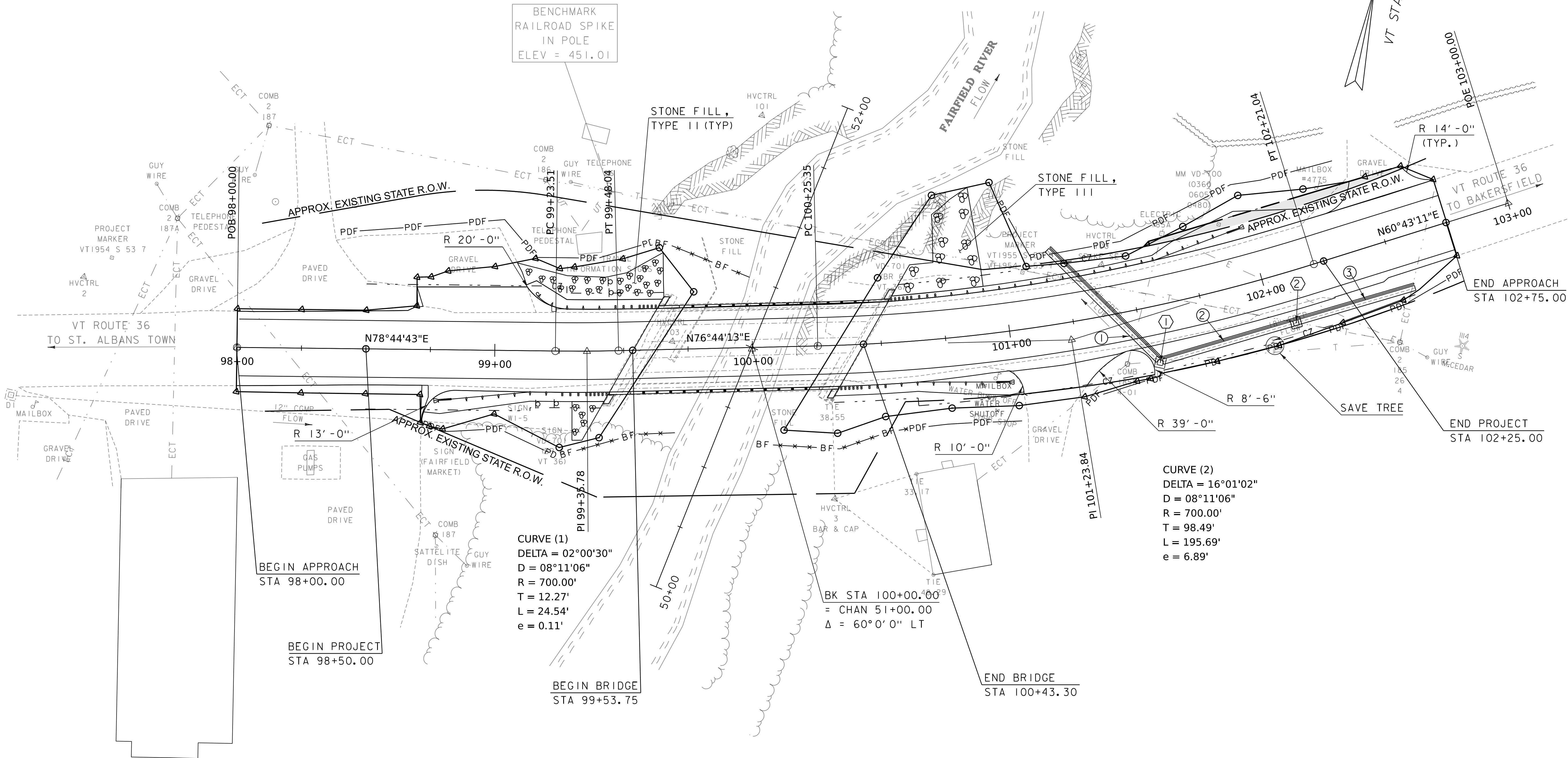
101+98.09 RT

ADJUST ELEVATION OF VALVE BOX

100 + 88.02 RT  
100 + 88.64 RT  
100 + 91.62 RT

24" DIAMETER CPEP (SL)

101+19.28 LT - 101+54.10 RT



EXISTING BRIDGE INFORMATION  
SINGLE SPAN ROLLED BEAM BRIDGE  
CONCRETE CAST-IN-PLACE DECK  
BUILT 1955  
89' SPAN LENGTH

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(5I)

FILE NAME: s19B218bdr.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: J. PAQUETTE  
DECK REPLACEMENT LAYOUT

PLOT DATE: 15-MAY-2023  
DRAWN BY: J. PAQUETTE  
CHECKED BY: D. PETERSON  
SHEET 10 OF 37

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



REMOVAL AND DISPOSAL OF GUARDAIL

99+33.94 - 99+61.79 LT  
99+02.81 - 99+43.50 RT  
100+35.67 - 100+74.62 RT  
100+53.52 - 101+88.97 LT

STEEL BEAM GUARDRAIL , GALVANIZED

99+15.92 - 99+47.28 LT  
100+50.66 - 100+62.83 RT

ANCHOR FOR STEEL BEAM RAIL

99+32.97 LT

BRIDGE RAILING, GALVANIZED  
STEEL TUBING/CONC. COMBINATION

99+64.00 - 100+53.77 LT  
99+44.20 - 100+32.76 RT

GUARDRAIL APPROACH SECTION TO CONC. COMB. RAILING, TL-3

99+47.28 - 99+64.00 LT  
100+32.76 - 100+50.66 RT

STEEL BEAM GUARDRAIL , GALV. W/ 8 FOOT POSTS

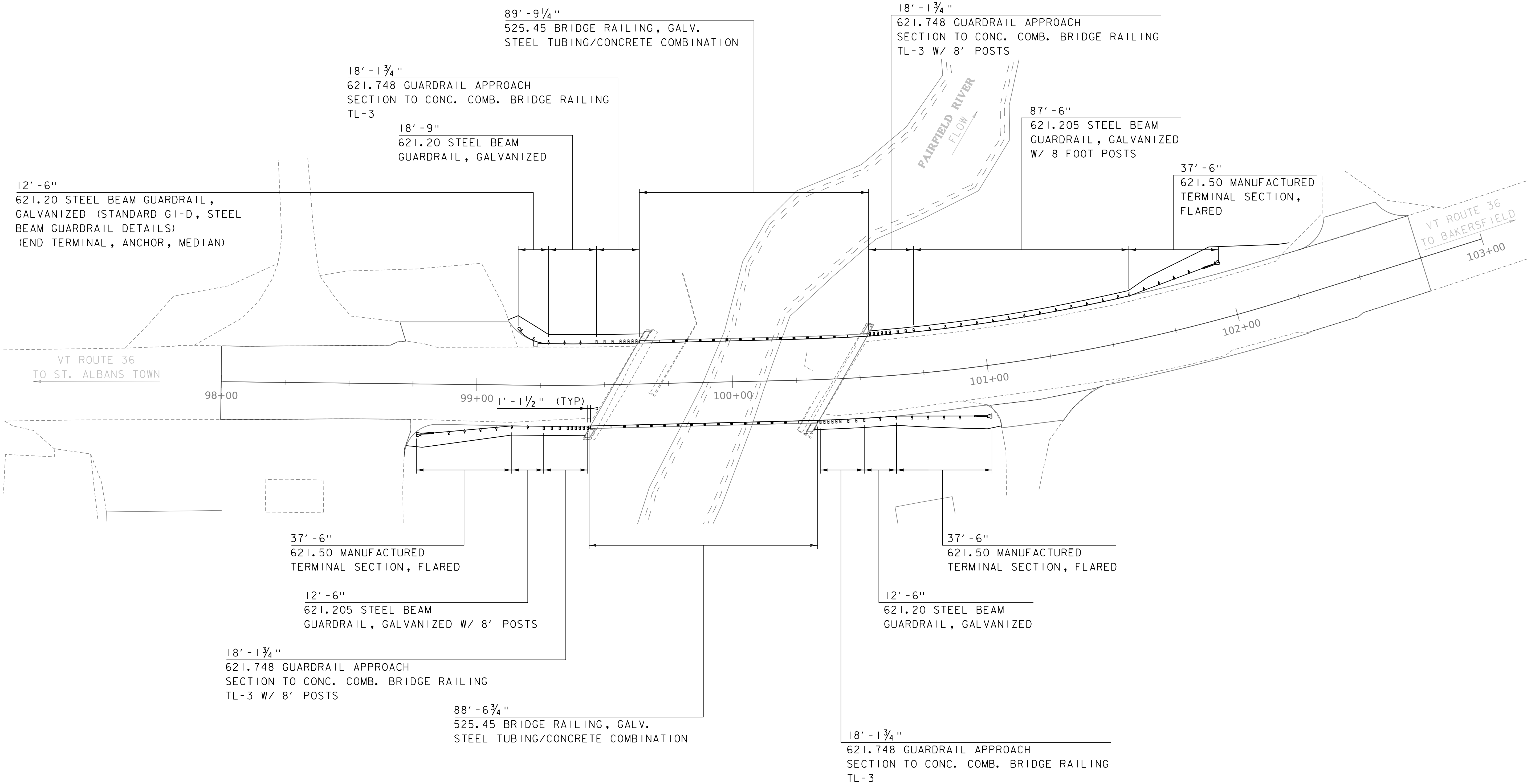
99+13.87 - 99+26.33 RT  
100+72.54 - 101+60.26 LT

GUARDRAIL APPROACH SECTION TO CONC. COMB. RAILING, TL-3, W/ 8 FOOT POSTS

99+26.32 - 99+43.05 RT  
100+54.91 - 100+72.54 LT

MANUFACTURED TERMINAL END SECTION, FLARED

98+76.58 - 99+13.87 RT  
100+62.83 - 100+99.23 RT  
101+60.27 - 101+97.16 LT



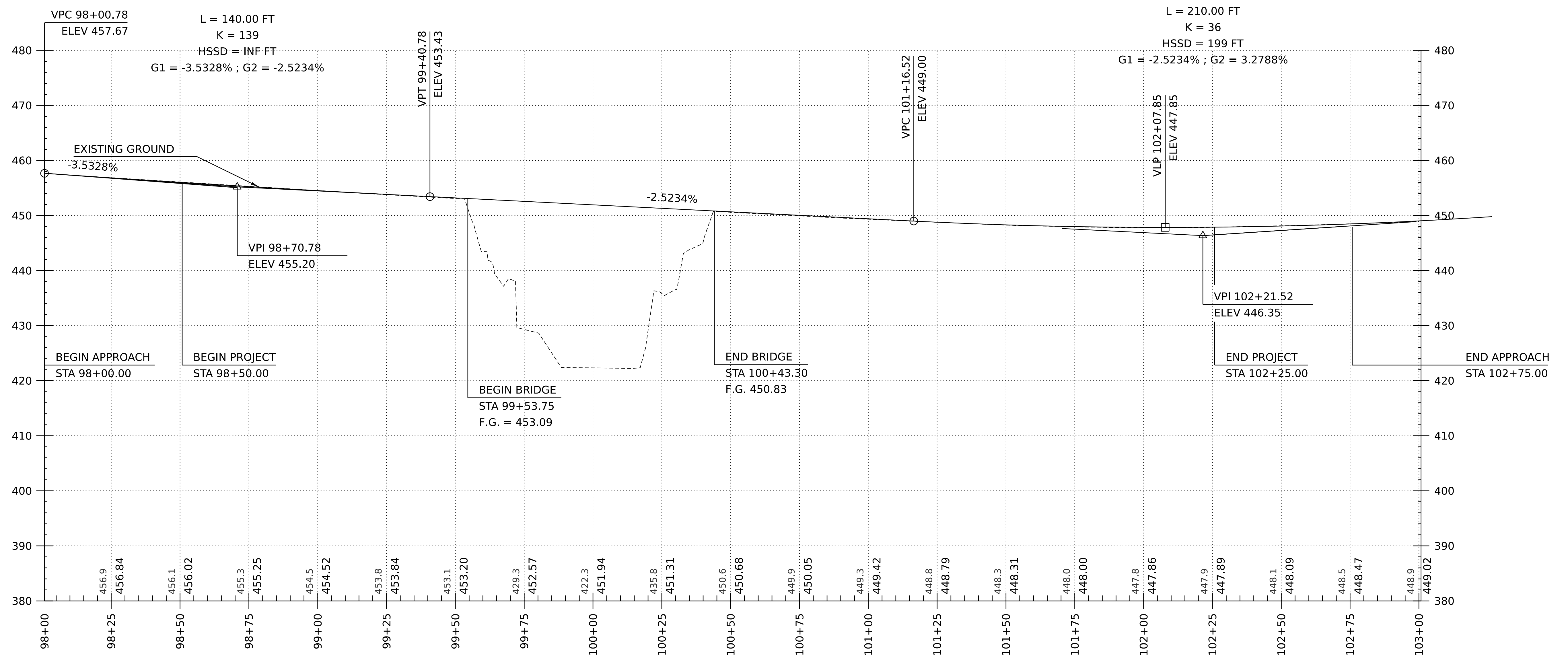
PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(5I)

FILE NAME: s19b218rail.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: J. PAQUETTE  
RAIL LAYOUT

PLOT DATE: 15-MAY-2023  
DRAWN BY: J. PAQUETTE  
CHECKED BY: D. PETERSON  
SHEET II OF 37

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

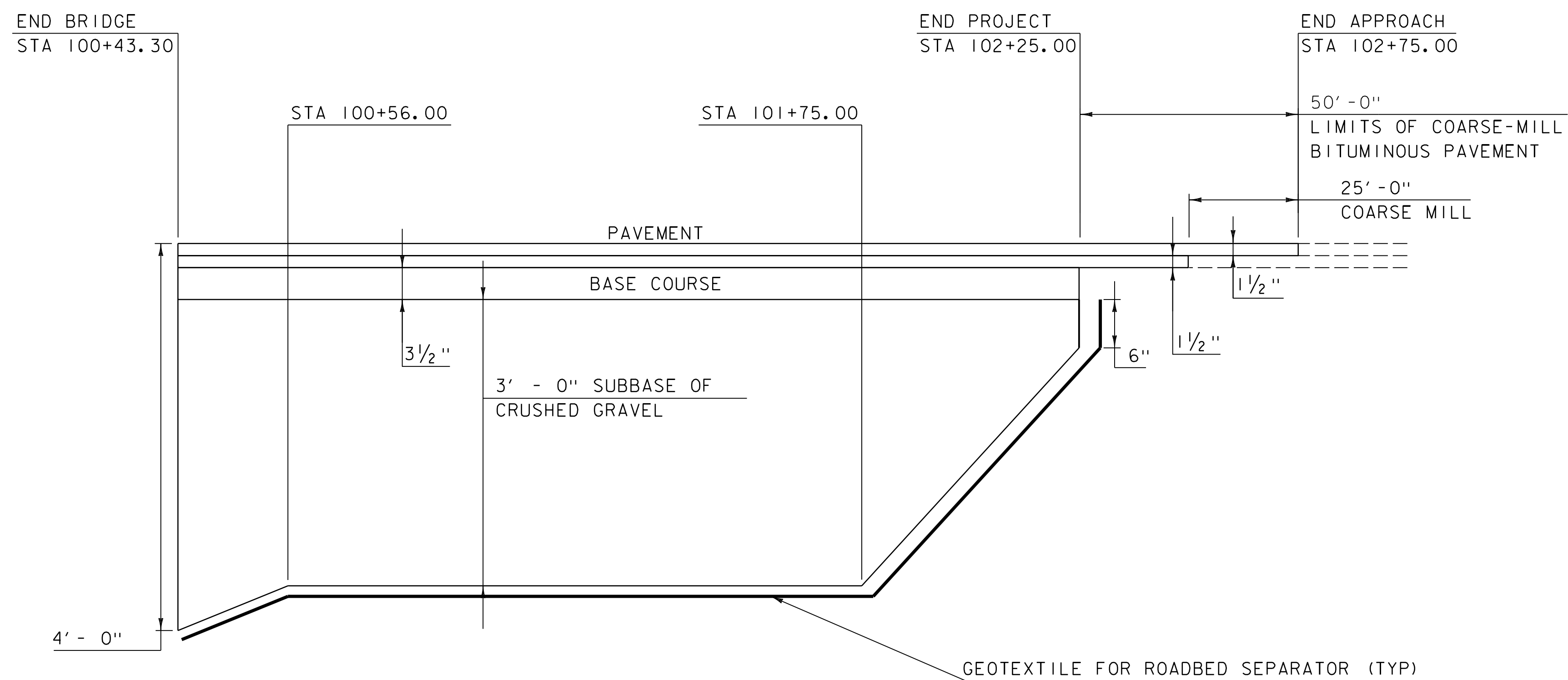
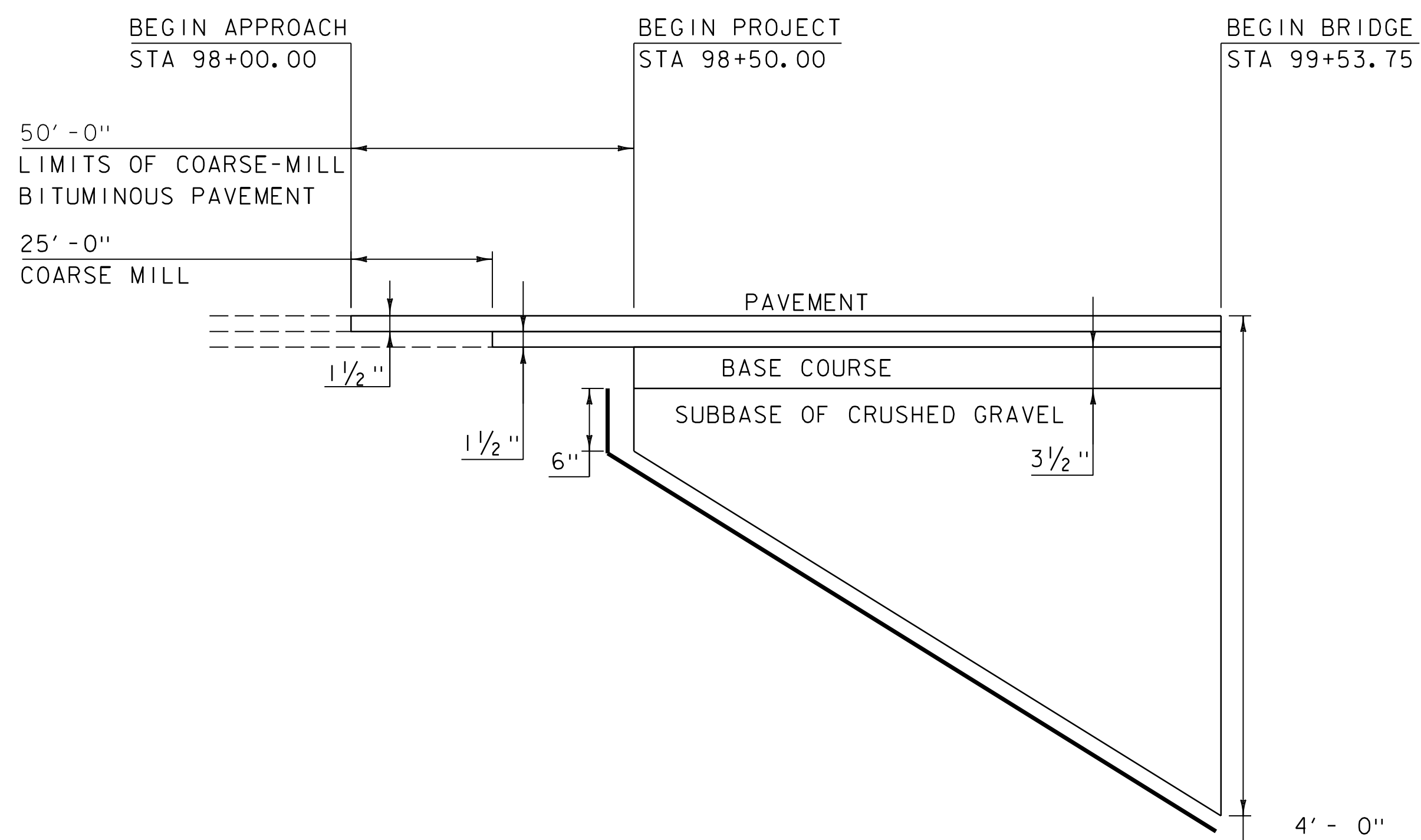




NOTE:  
GRADES SHOWN TO THE NEAREAST TENTH ARE EXISTING GROUND ALONG CENTER LINE  
GRADES SHOWN TO THE NEAREAST HUNDRETH ARE EXISTING GROUND ALONG CENTER LINE  
SCALE: HORIZONTAL 1" = 20'-0"  
VERTICAL 1" = 10'-0"

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK (5I)	
FILE NAME: s19b218VT36profile2.dgn	PLOT DATE: 15-MAY-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
VT 36 PROFILE	SHEET 12 OF 37

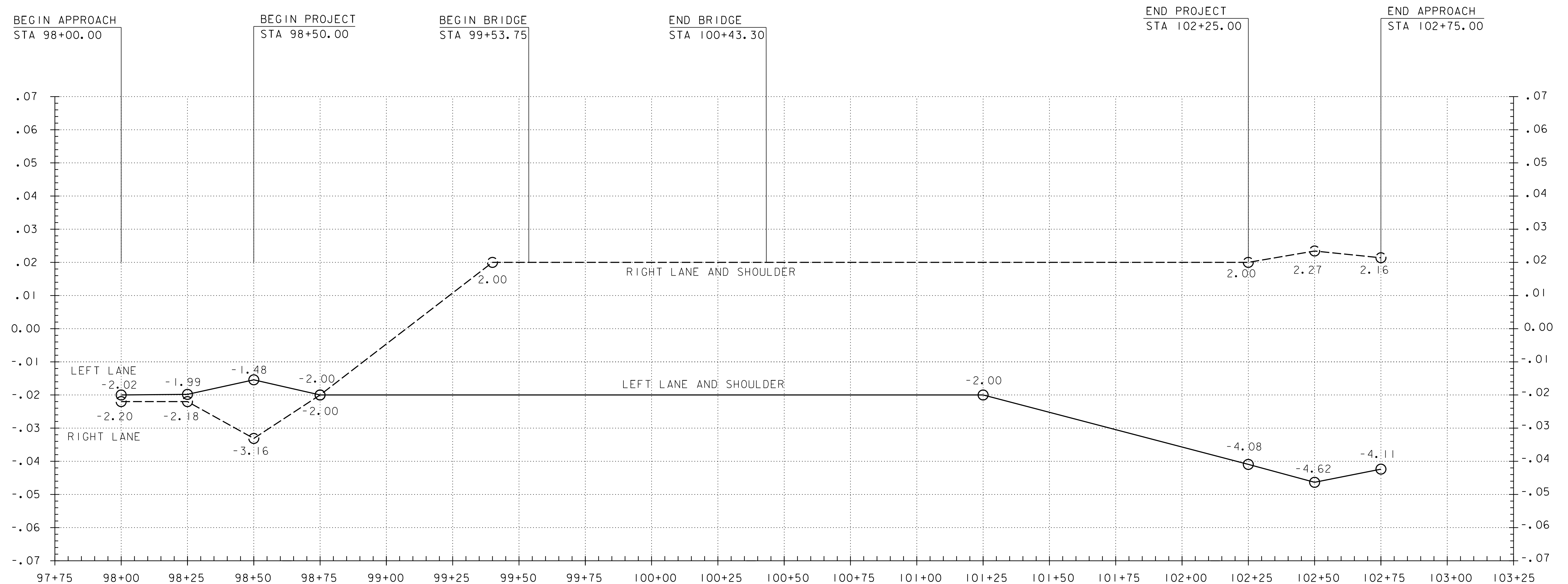




SCALE: HORIZONTAL: 1"=20' - 0"  
VERTICAL: NTS

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(5I)	
FILE NAME: sl9b2l8mattrans.dgn	PLOT DATE: 15-MAY-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MATERIAL TRANSITION DIAGRAM	SHEET 13 OF 37





**BANKING DIAGRAM**

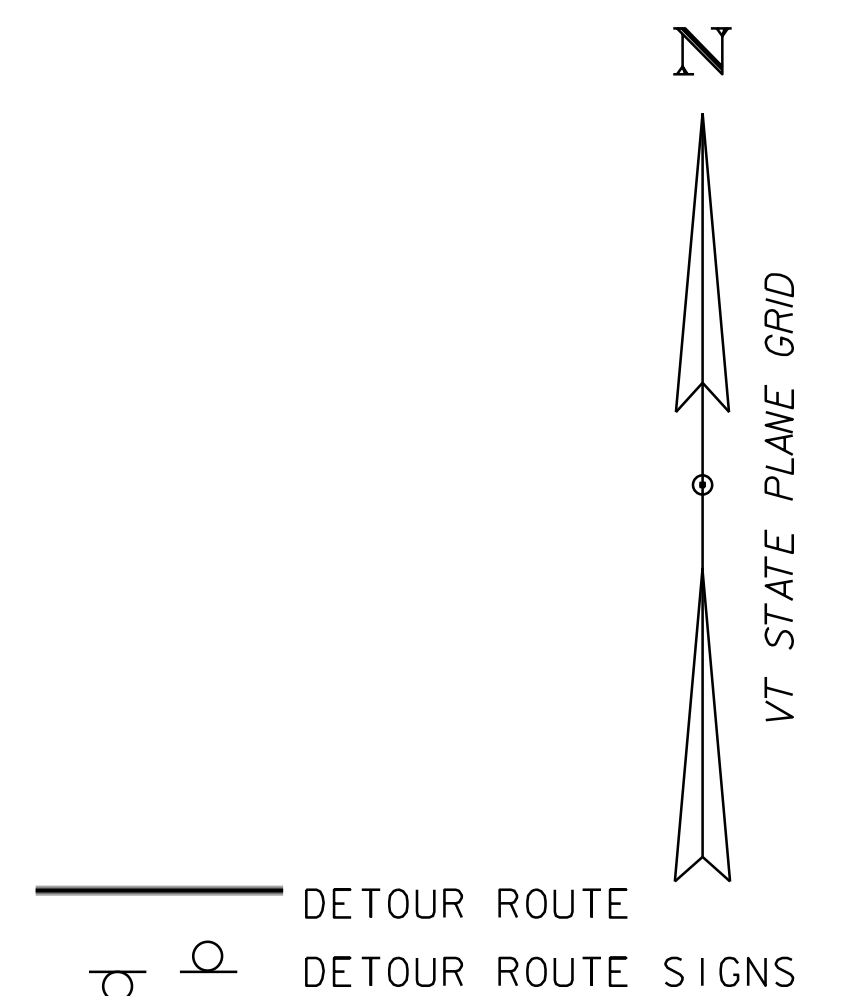
HORIZONTAL SCALE: 1" = 20' - 0"  
VERTICAL SCALE: NOT TO SCALE

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(5I)	
FILE NAME: I9B2I8banking.dgn	PLOT DATE: 15-MAY-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
BANKING DIAGRAM	SHEET 14 OF 37









## PCMS

### MESSAGES FOR PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

MESSAGE 1	MESSAGE 2
<b>VT 36</b>	<b>**DATE**</b>
<b>ROAD</b>	<b>THRU</b>
<b>CLOSED</b>	<b>**DATE**</b>

SEE CONTRACT DOCUMENTS FOR  
CLOSURE DATES  
ONCE CLOSURE BEGINS PCMS ARE  
NOT NECESSARY. REMOVE.

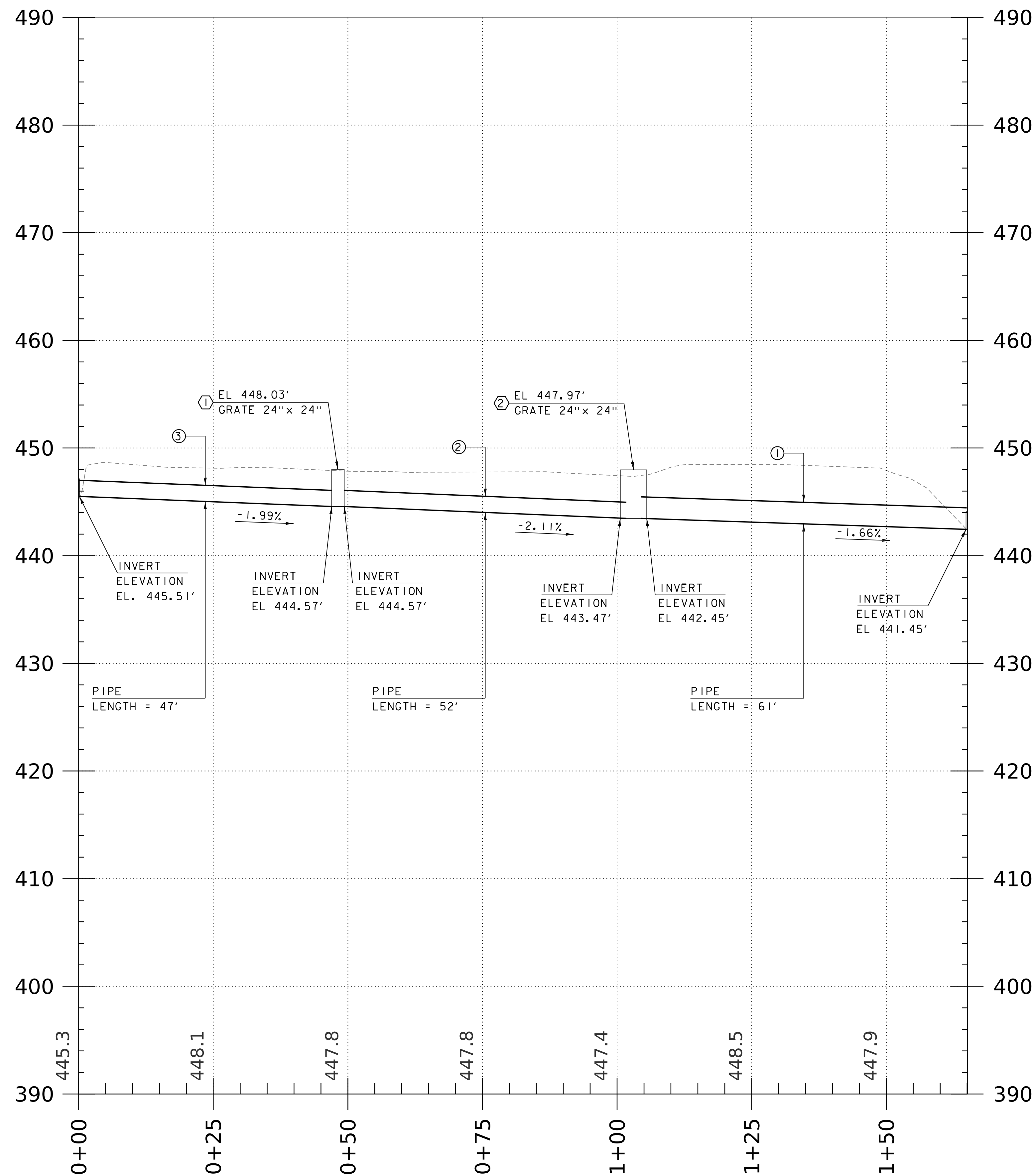
NOTES:

1. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PLACED OFF THE EDGE OF THE ROADWAY, OUTSIDE THE CLEAR ZONE, BUT SHALL BE VISIBLE FROM THE ROADWAY. ANY VEGETATION THAT INTERFERES WITH VISIBILITY OF THE PCMS SHALL BE REMOVED. REMOVAL OF THE VEGETATION WILL BE INCIDENTAL TO ITEM 641J5, "PORTABLE CHANGEABLE MESSAGE SIGN".
2. ORANGE FLAGS SHALL BE USED WITH TEMPORARY DETOUR SIGNS WITH BLACK LETTERING ON WHITE BACKGROUNDS TO HIGHLIGHT INFORMATION FOR THE TRAVELING PUBLIC EXCEPT THOSE ATTACHED TO TYPE 3 BARRICADES.
3. SEE CONTRACT DOCUMENTS FOR CLOSURE DATES.
4. COVER ALL SIGNS CONFLICTING WITH DETOUR

PROJECT NAME:	FAIRFIELD
PROJECT NUMBER:	STP DECK(5I)

FILE NAME: sl9b2l8detour.dgn	PLOT DATE: 15-MAY-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
DETOUR SHEET DETAILS	SHEET 16 OF 37

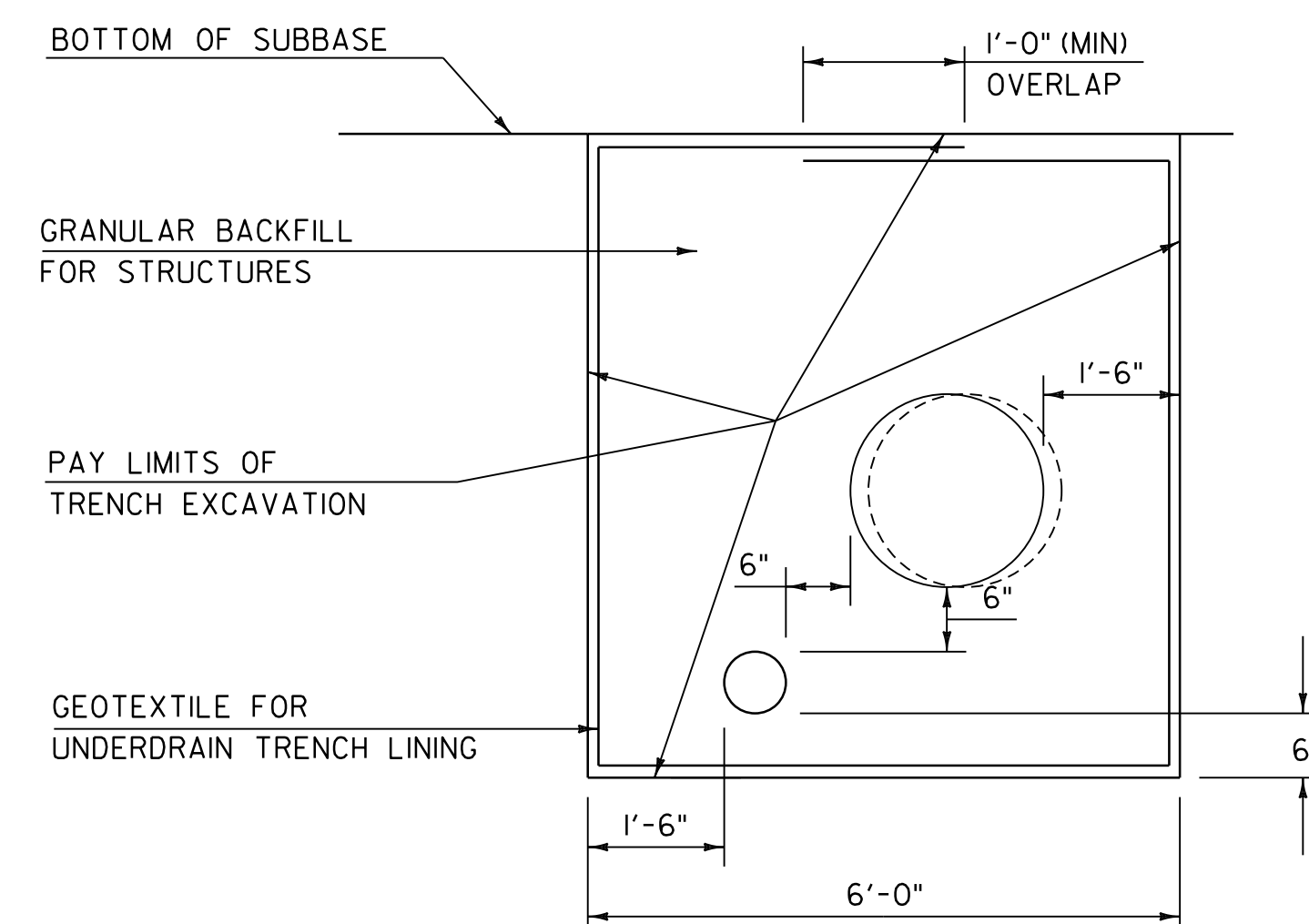




PIPE PROFILE  
SCALE: 1" = 20' - 0"

NOTES:

- ① EXISTING PIPE SHALL BE EXCAVATED AND NEW PIPE SHALL BE SET TO THE ELEVATIONS SHOWN IN THE PROFILE ON THIS SHEET.
- ② EXISTING DI SHALL BE EXCAVATED AND NEW DI SHALL BE SET TO PROVIDE THE INVERT ELEVATIONS SHOWN IN THE PROFILE ON THIS SHEET. THE INLET GRATE ELEVATION SHALL MATCH PROPOSED FINISH SLOPE GRADES.
- ③ EXISTING PIPE SHALL BE EXCAVATED AND NEW PIPE SET TO THE ELEVATIONS SHOWN IN THE PROFILE ON THIS SHEET.
- ④ NEW DI SHALL BE SET IN PLACE.
- ⑤ NEW PIPE SHALL BE SET TO THE ELEVATIONS SHOWN IN THE PROFILE ON THIS SHEET.



PIPE TRENCH DETAIL  
SCALE: NOT TO SCALE

PROJECT NAME:	FAIRFIELD	PLOT DATE:	15-MAY-2023
PROJECT NUMBER:	STP DECK(5I)	DRAWN BY:	J. PAQUETTE
FILE NAME:	sl9b2l8_Pipe_Profile.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	R. YOUNG	SHEET	17 OF 37
DESIGNED BY:	J. PAQUETTE		
PIPE PROFILE			



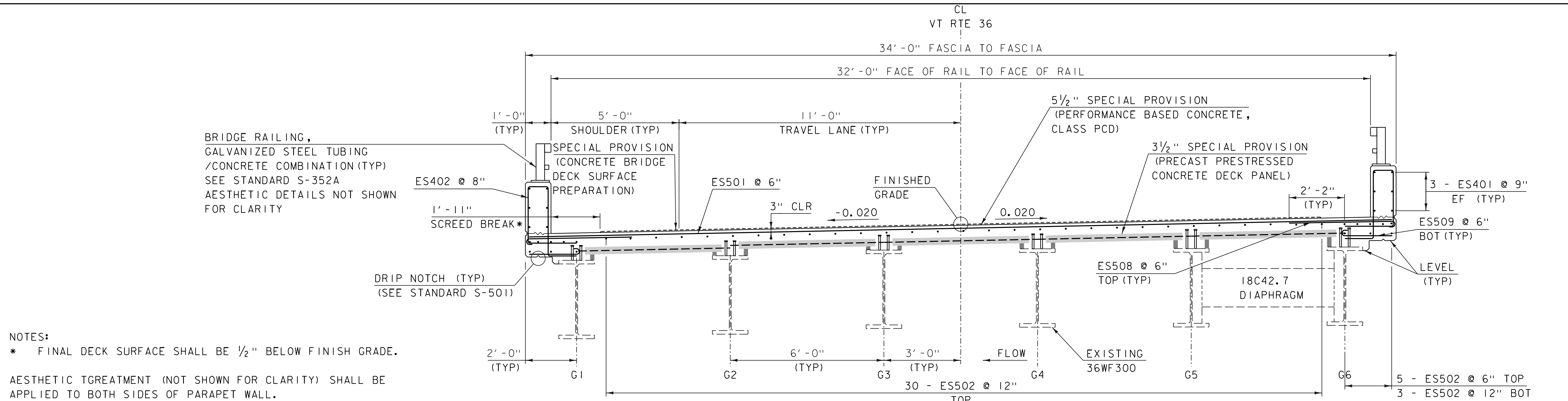
# DRAINAGE DETAIL SHEET

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(5I)	
FILE NAME: s19b218VT36drain.dgn	PLOT DATE: 15-MAY-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
DRAINAGE DETAIL SHEET	SHEET 18 OF 37



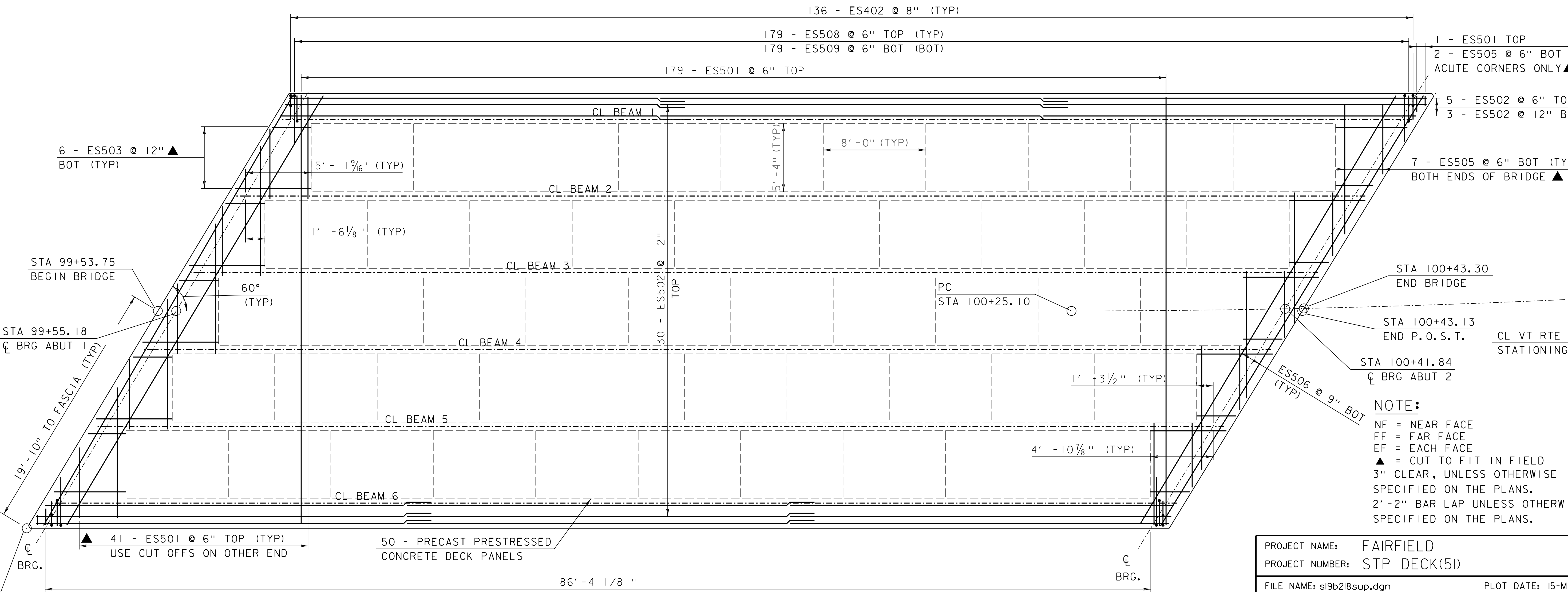






DECK TYPICAL SECTION

SCALE 3/4" = 1'-0"

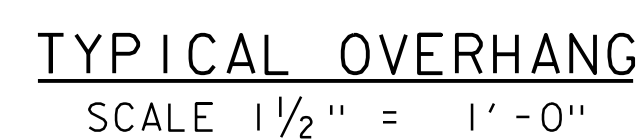


DECK REINFORCING PLAN

SCALE 1/4" = 1'-0"

PROJECT NAME:	FAIRFIELD
PROJECT NUMBER:	STP DECK(51)
FILE NAME:	sl9b2l8sup.dgn
PROJECT LEADER:	R. YOUNG
DESIGNED BY:	J. PAQUETTE
DECK REINFORCING PLAN	
PLOT DATE:	15-MAY-2023
DRAWN BY:	J. PAQUETTE
CHECKED BY:	D. PETERSON
SHEET	20 OF 37





HAUNCH DETAIL  
SCALE 1 1/2" = 1' - 0"

NOTE:

NF = NEAR FACE  
FF = FAR FACE  
EF = EACH FACE  
▲ = CUT TO FIT IN FIELD  
3" CLEAR, UNLESS OTHERWISE  
SPECIFIED ON THE PLANS.  
2'-2" BAR LAP UNLESS OTHERWISE  
SPECIFIED ON THE PLANS.

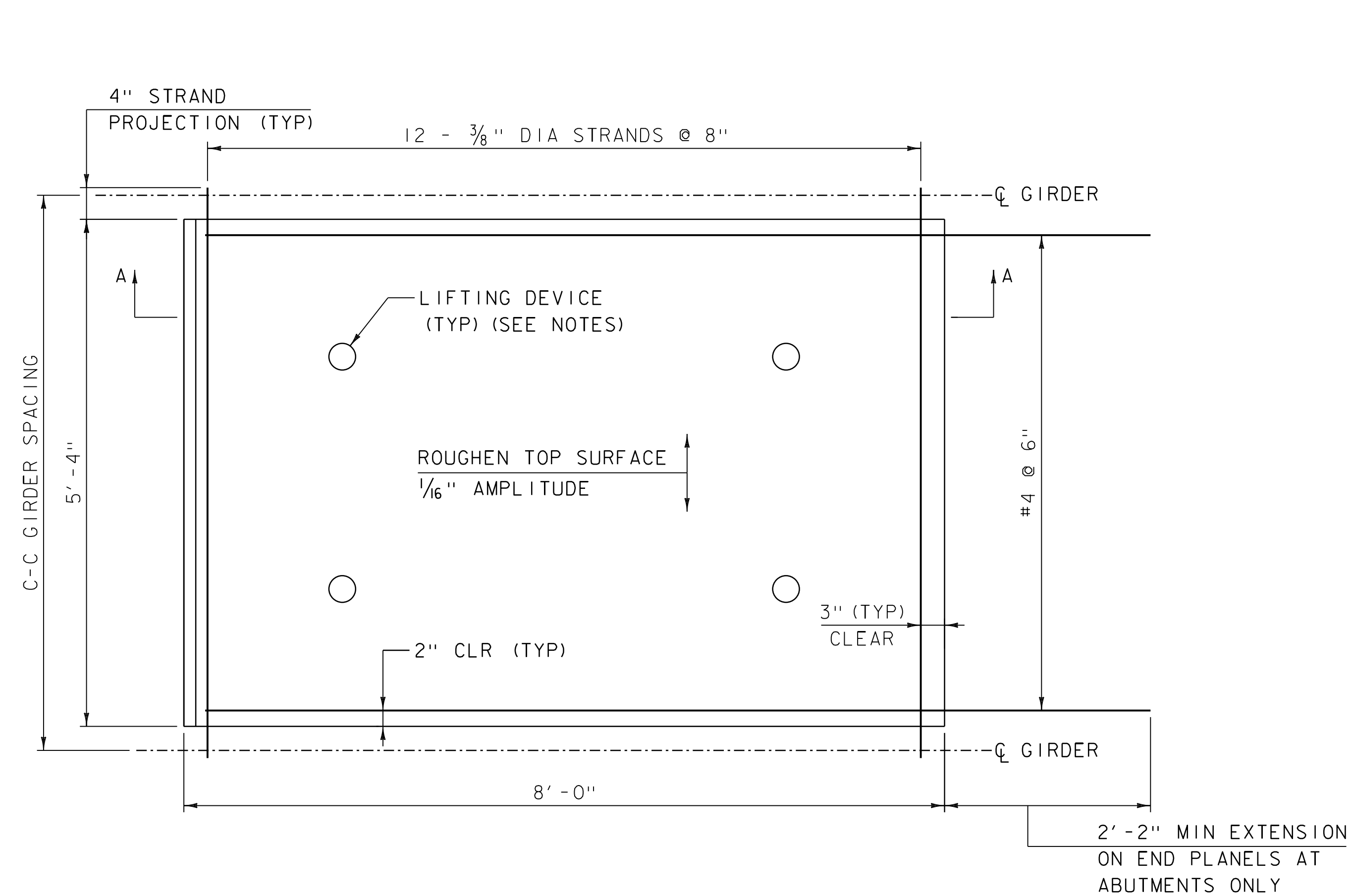
NOTES:

1. LIFTING DEVICE SHALL BE DESIGNED BY THE FABRICATOR.
2. SHEAR CONNECTORS AND STRANDS PROJECTING FROM THE PANELS SHALL BE CLEANED OF ANY EXCESS CONCRETE, CLASS AA AFTER HAUNCH POUR PLACEMENT.
3. STRANDS PROJECTING FROM PANELS SHALL BE SECURED IN PLACE DURING DECK CONCRETE PLACEMENT.
4. OMIT TRANSVERSE NOTCH ON END PANELS AT ABUTMENTS.
6. REINFORCING SHALL BE THE SAME LEVEL AS THE REINFORCING IN THE CONCRETE DECK.
7. BEDDING STRIPS ACTING AS TEMPORARY SUPPORTS FOR THE PANELS SHALL BE CUT TO THE REQUIRED HEIGHT AFTER THE GIRDERS HAVE BEEN ERECTED AND PROFILED.
8. THE MINIMUM HEIGHT OF THE BEDDING STRIPS IS 1". IF THIS CANNOT BE MET, THE PROFILE GRADE MUST BE ADJUSTED.
9. BEDDING STRIPS SHALL BE HIGH-DENSITY EXTRUDED POLYSTYRENE WITH A MINIMUM COMPRESSIVE STRENGTH OF 60 PSI MEETING THE REQUIREMENTS OF SUBSECTION 735.01.
10. BEDDING STRIPS SHALL BE ATTACHED TO THE TOP FLANGE OF THE GIRDERS WITH AN APPROVED HIGH STRENGTH ADHESIVE. THE ADHESIVE SHALL BE ALLOWED TO CURE PER THE MANUFACTURER'S INSTRUCTIONS BEFORE SETTING PANELS.
11. PANELS SHALL NOT BE USED TO SUPPORT HEAVY LOADS UNTIL THE FULL DECK IS CAST AND CURED.
12. THE HAUNCH POUR SHALL BE ALLOWED TO CURE FOR A MINIMUM OF 3 DAYS PRIOR TO PLACING THE CONCRETE DECK.
13. ALL COSTS ASSOCIATED WITH PROVIDING AND PLACING BEDDING STRIPS AND THE HAUNCH POURS SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 900.670, "SPECIAL PROVISION (PRECAST PRESTRESSED CONCRETE DECK PANEL) (3½")".
14. THE FOLLOWING DECK PANEL DESIGN INFORMATION SHALL BE USED FOR THIS PROJECT:
  - C-C GIRDER SPACING = 6'-0"
  - GIRDER FLANGE WIDTH = 16.655"
  - ASSUMED BEDDING STRIP WIDTH = 1.5"
  - PANEL LENGTH = 5'-4" (NOTE: IF THE CONTRACTOR PROPOSES A BEDDING STRIP WIDTH THAT EXCEEDS THE ASSUMED WIDTH, PANEL LENGTH SHALL BE INCREASED AS REQUIRED TO PROVIDE A 2" MIN. HAUNCH BEARING WIDTH.)
  - PANEL THICKNESS = 3.5"
  - STRAND SPACING = 8"
  - TOTAL NUMBER OF STRANDS REQUIRED PER 8' PANEL WIDTH = 12

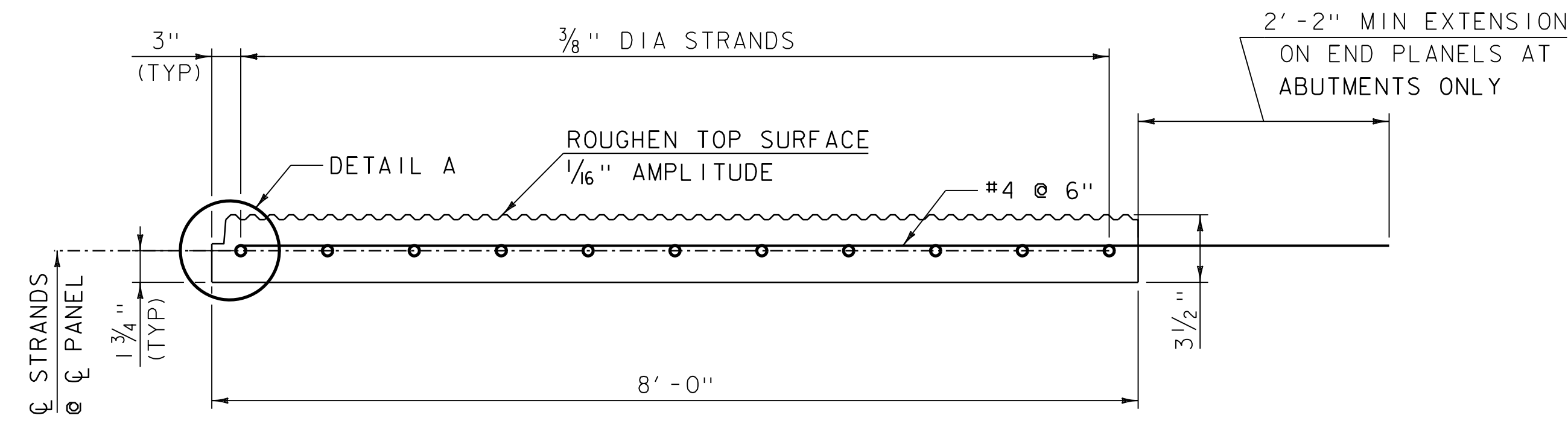
(AESTHETIC TREATMENT AND BRIDGE RAIL STEEL NOT SHOWN FOR CLARITY)

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(5I)	
FILE NAME: sl9b2l8sup.dgn	PLOT DATE: 15-MAY-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
PRECAST DECK PANEL NOTES	SHEET 21 OF 37

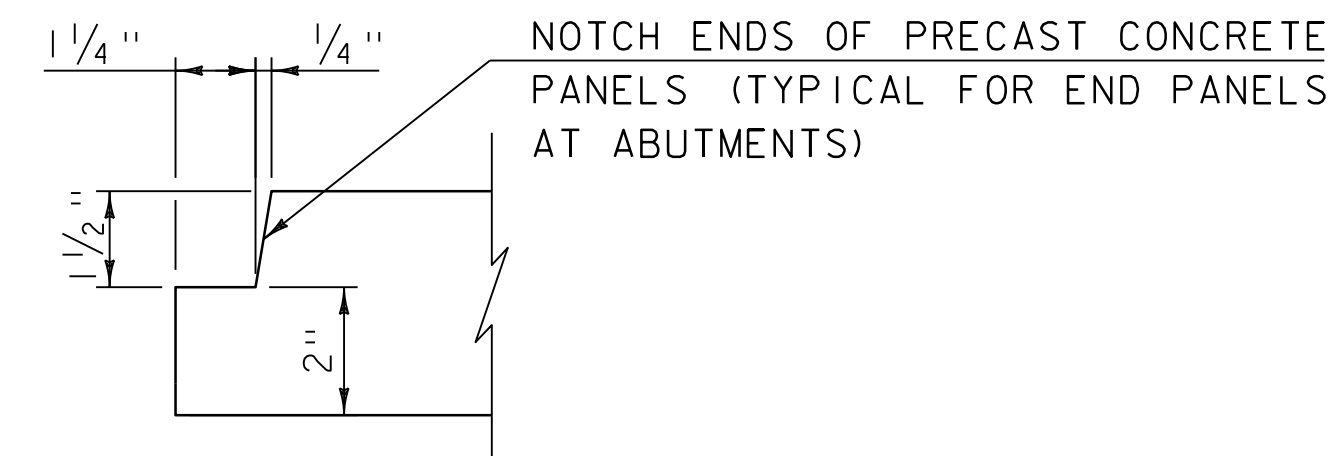




**PRECAST PRESTRESSED  
CONCRETE DECK PANEL PLAN**  
SCALE:  $\frac{3}{8}$ " = 1' - 0"



**SECTION A-A**  
HORIZONTAL SCALE:  $\frac{3}{8}$ " = 1' - 0"  
VERTICAL SCALE:  $\frac{3}{4}$ " = 1' - 0"

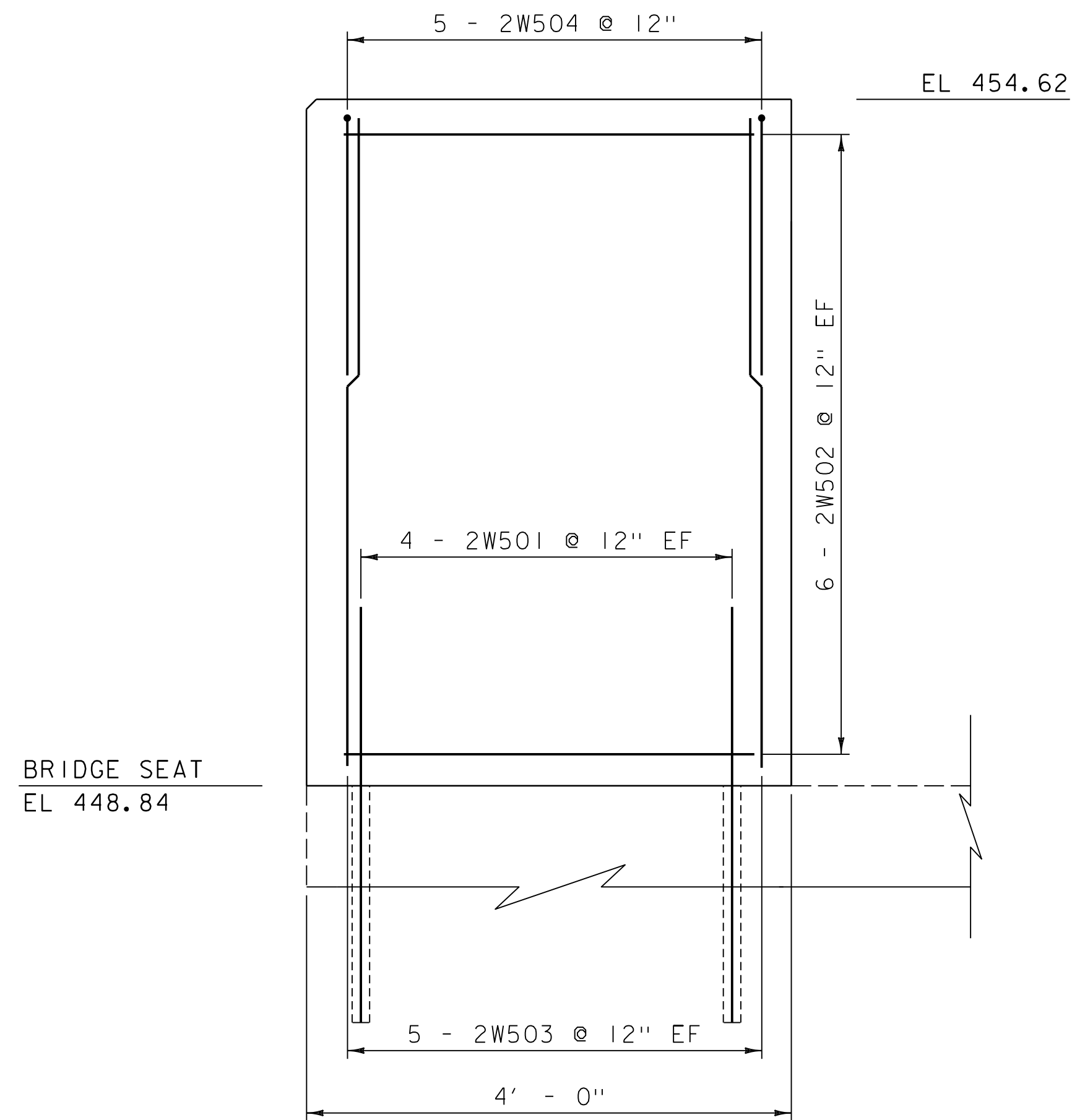


**DETAIL A**  
NOT TO SCALE  
(SEE NOTES ON PRECAST CONCRETE  
DECK PANEL DETAIL (SHEET 2 OF 2))

**NOTE:**  
NF = NEAR FACE  
FF = FAR FACE  
EF = EACH FACE  
▲ = CUT TO FIT IN FIELD  
3" CLEAR, UNLESS OTHERWISE  
SPECIFIED ON THE PLANS.  
2'-2" BAR LAP UNLESS OTHERWISE  
SPECIFIED ON THE PLANS.

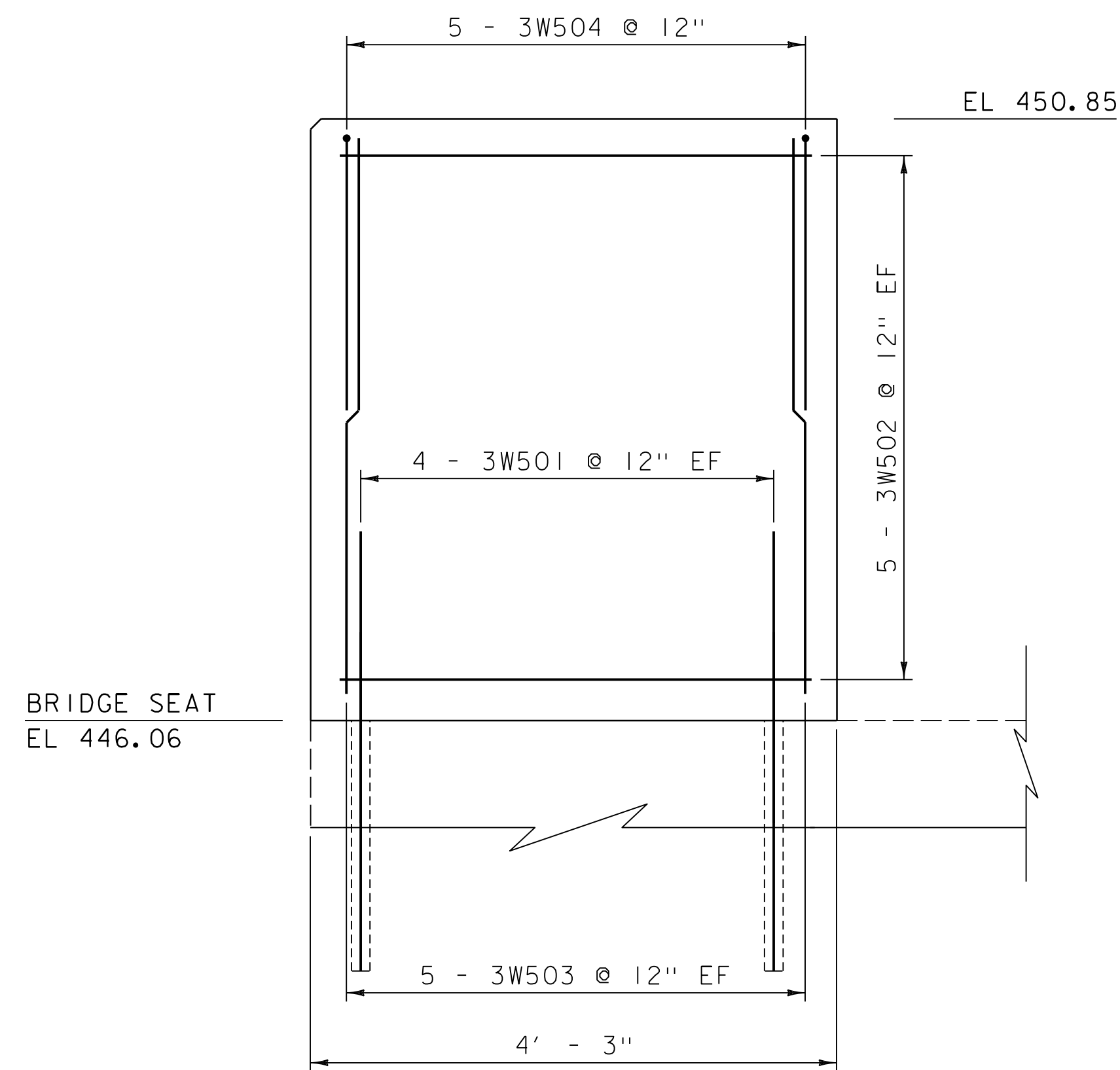
PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(5I)	
FILE NAME: sl9b2l8deck-panel.dgn	PLOT DATE: 15-MAY-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
PRECAST CONCRETE DECK PANEL DETAIL	SHEET 22 OF 37





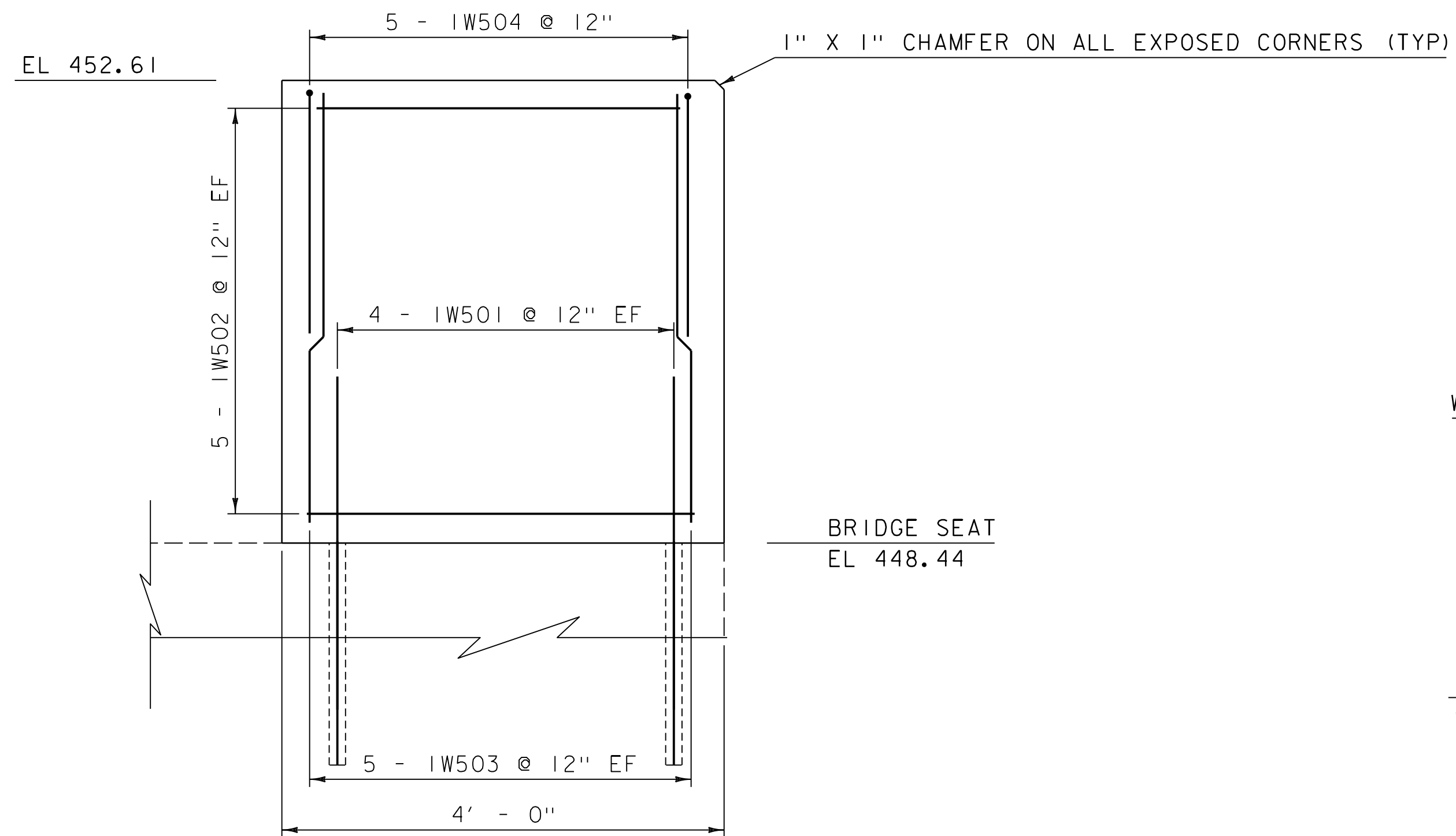
**WINGWALL #2**

SCALE 1" = 1'-0"



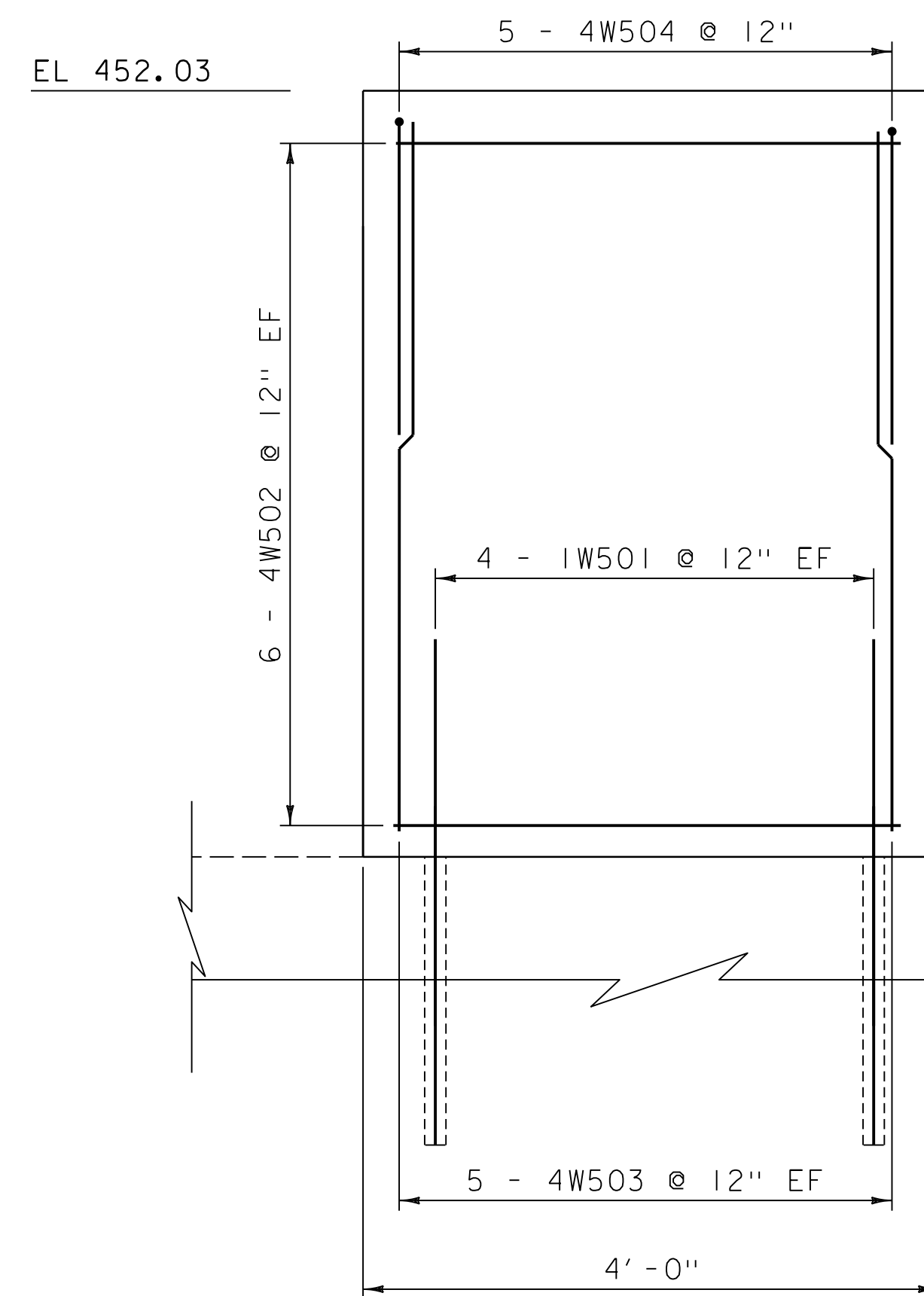
**WINGWALL #3**

SCALE 1" = 1'-0"



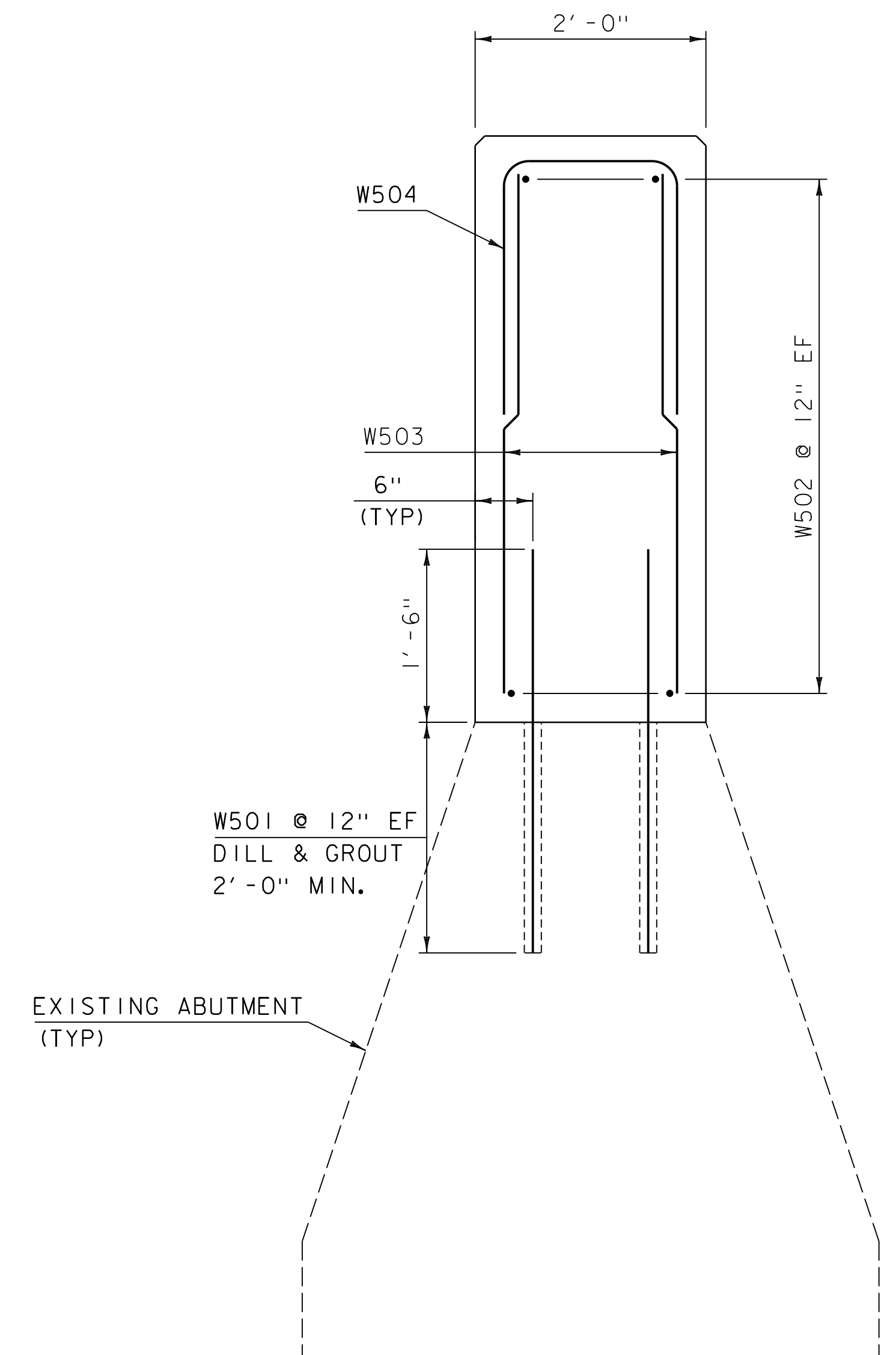
**WINGWALL #1**

SCALE 1" = 1'-0"



**WINGWALL #4**

SCALE 1" = 1'-0"



**WINGWALL TYPICAL**

SCALE 1" = 1'-0"

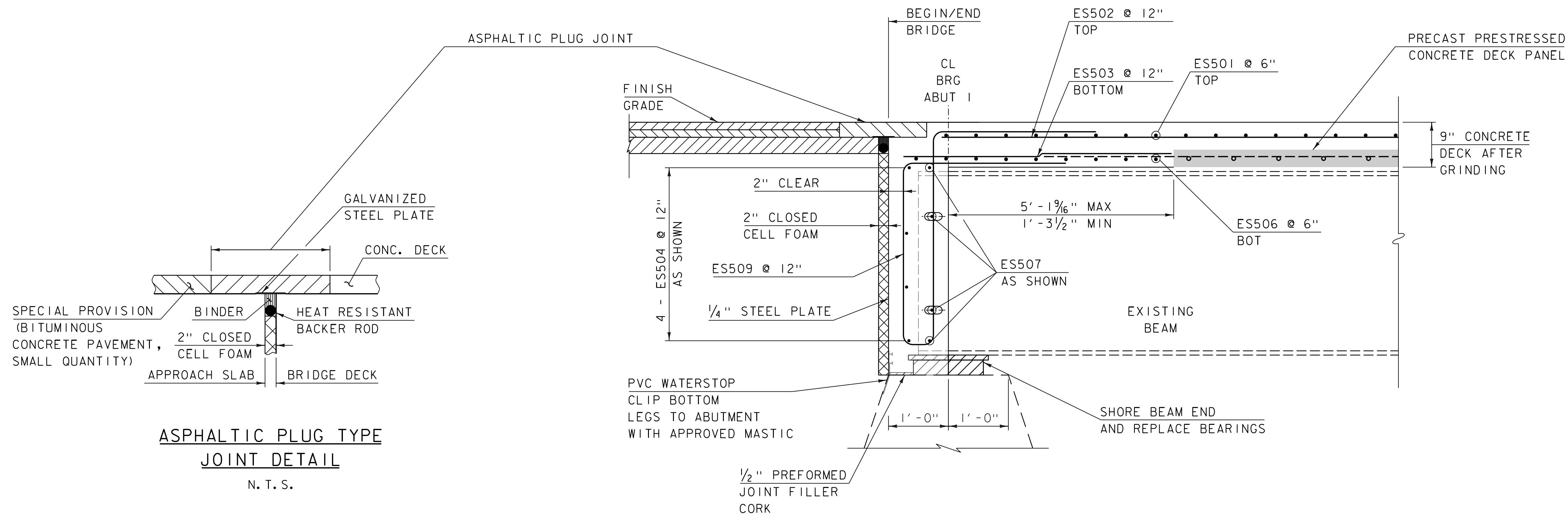
NOTE:  
BRIDGE SEAT ELEVATIONS ARE APPROXIMATE.  
THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO FORMING WALLS.

**NOTE:**

NF = NEAR FACE  
FF = FAR FACE  
EF = EACH FACE  
▲ = CUT TO FIT IN FIELD  
3" CLEAR, UNLESS OTHERWISE  
SPECIFIED ON THE PLANS.  
2'-2" BAR LAP UNLESS OTHERWISE  
SPECIFIED ON THE PLANS.

PROJECT NAME:	FAIRFIELD
PROJECT NUMBER:	STP DECK(5I)
FILE NAME:	sl9b2l8sub.dgn
PROJECT LEADER:	R. YOUNG
DESIGNED BY:	J. PAQUETTE
WINGWALL DETAILS	
PLOT DATE:	15-MAY-2023
DRAWN BY:	J. PAQUETTE
CHECKED BY:	D. PETERSON
SHEET	23 OF 37





**NOTE:**

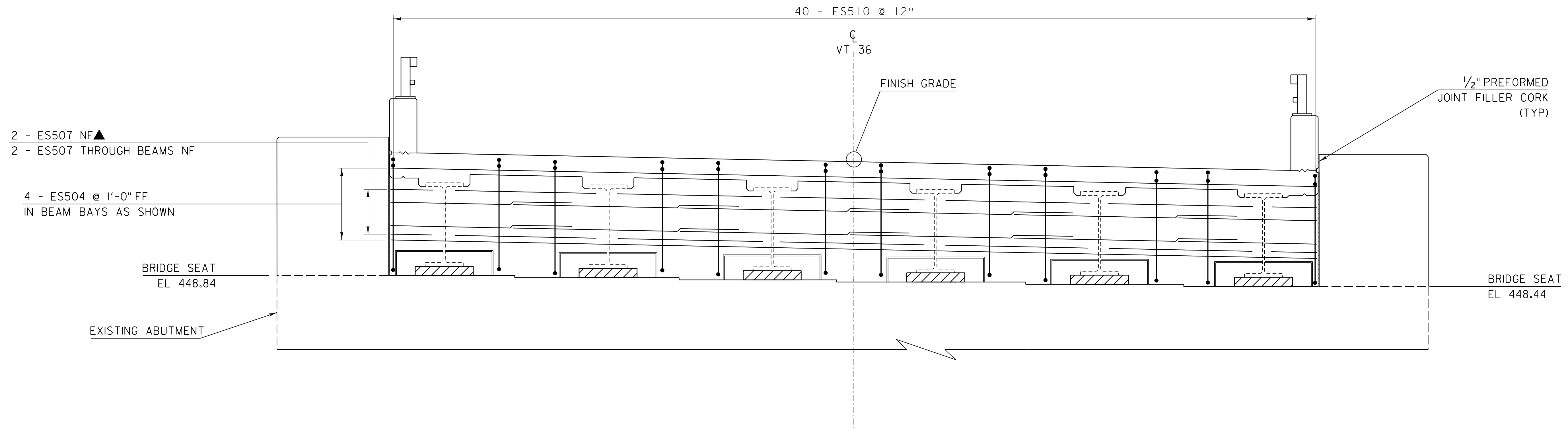
NF = NEAR FACE  
 FF = FAR FACE  
 EF = EACH FACE  
 ▲ = CUT TO FIT IN FIELD  
 3" CLEAR, UNLESS OTHERWISE  
 SPECIFIED ON THE PLANS.  
 2'-2" BAR LAP UNLESS OTHERWISE  
 SPECIFIED ON THE PLANS.

PROJECT NAME: FAIRFIELD  
 PROJECT NUMBER: STP DECK(5I)

FILE NAME: sl9b2l8sub.dgn  
 PROJECT LEADER: R. YOUNG  
 DESIGNED BY: J. PAQUETTE  
 BRIDGE END DETAILS

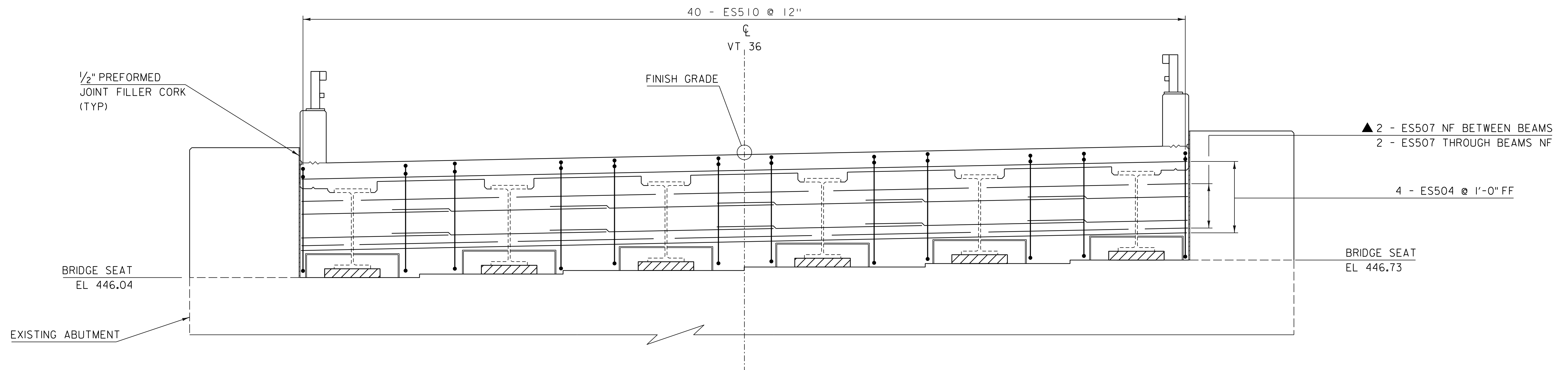
PLOT DATE: 15-MAY-2023  
 DRAWN BY: J. PAQUETTE  
 CHECKED BY: D. PETERSON  
 SHEET 24 OF 37





ABUTMENT #1 CURTAINWALL TYPICAL ELEVATION

SCALE 1/2" = 1'-0"



ABUTMENT #2 CURTAINWALL TYPICAL ELEVATION

SCALE 1/2" = 1'-0"

NOTE:  
BRIDGE SEAT ELEVATIONS ARE APPROXIMATE.  
THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS  
PRIOR TO FORMING CURTAIN WALLS.

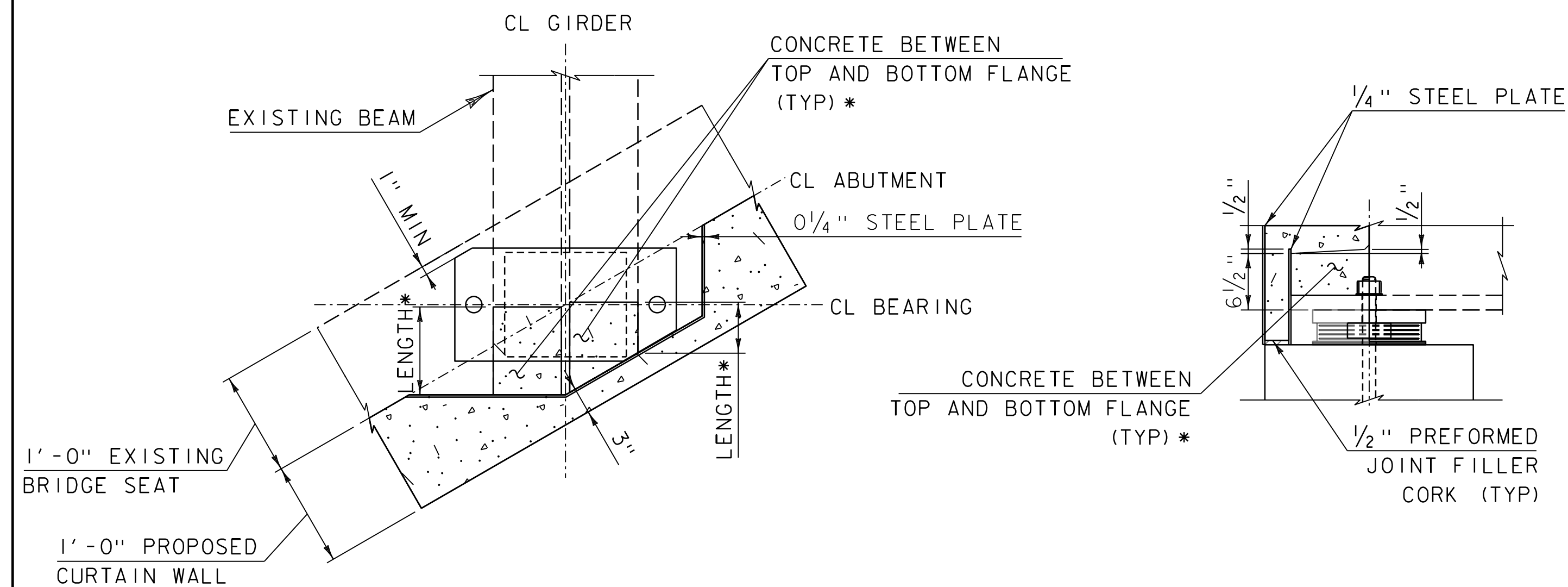
NOTE:  
NF = NEAR FACE  
FF = FAR FACE  
EF = EACH FACE  
3" CLEAR, UNLESS OTHERWISE  
SPECIFIED ON THE PLANS  
▲ = CUT TO FIT  
2'-2" LAP BAR UNLESS OTHERWISE  
SPECIFIED ON THE PLANS

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(5I)

FILE NAME: sl9B2I8SUB.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: J. PAQUETTE  
CURTAINWALL ELEVATION

PLOT DATE: 15-MAY-2023  
DRAWN BY: J. PAQUETTE  
CHECKED BY: D. PETERSON  
SHEET 25 OF 37



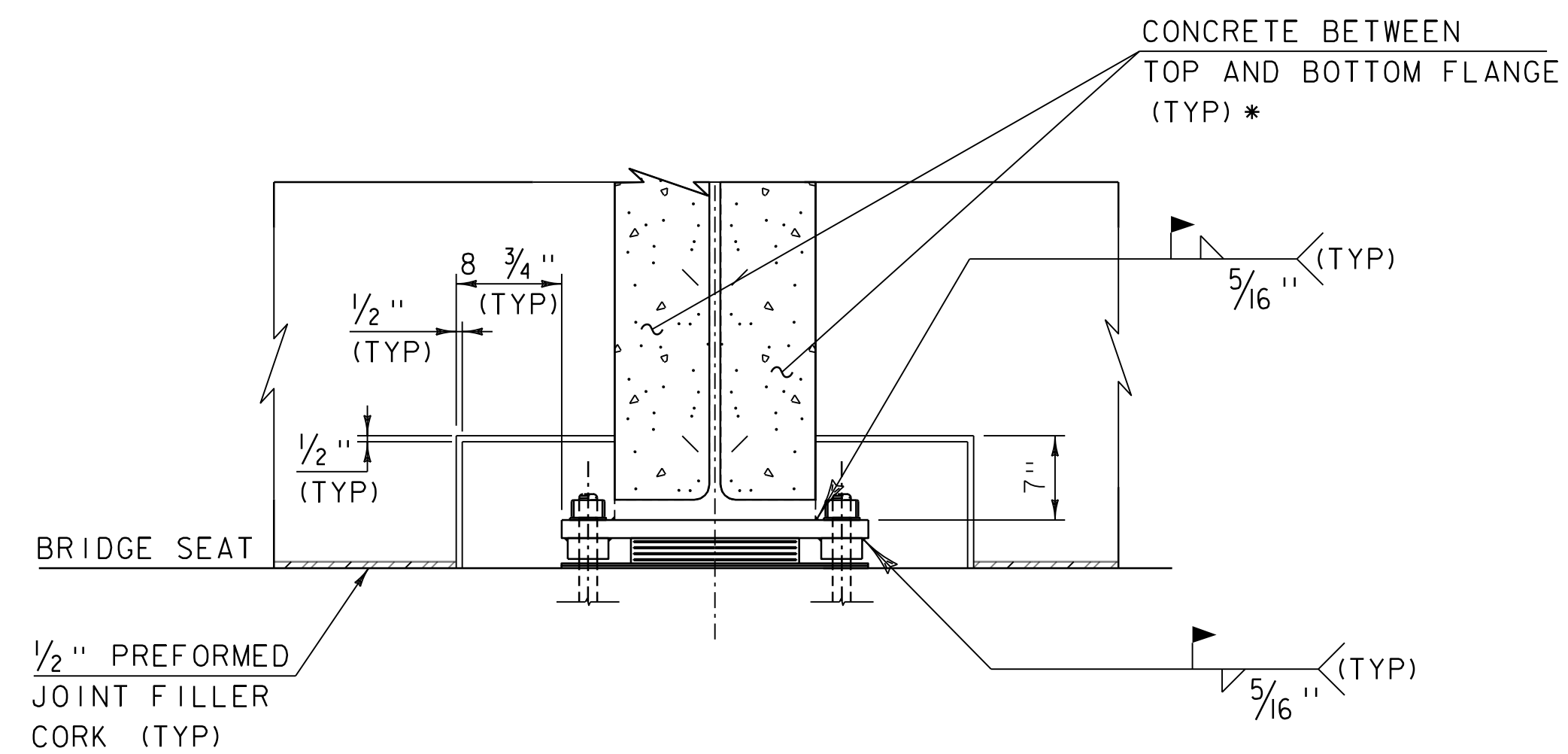


**END OF BEAM CONCRETE  
ENCASEMENT PLAN***

SCALE 1" = 1'-0"

**CONCRETE CURTAIN WALL PROFILE  
AROUND BEARINGS AT ABUTMENTS***

SCALE 1" = 1'-0"



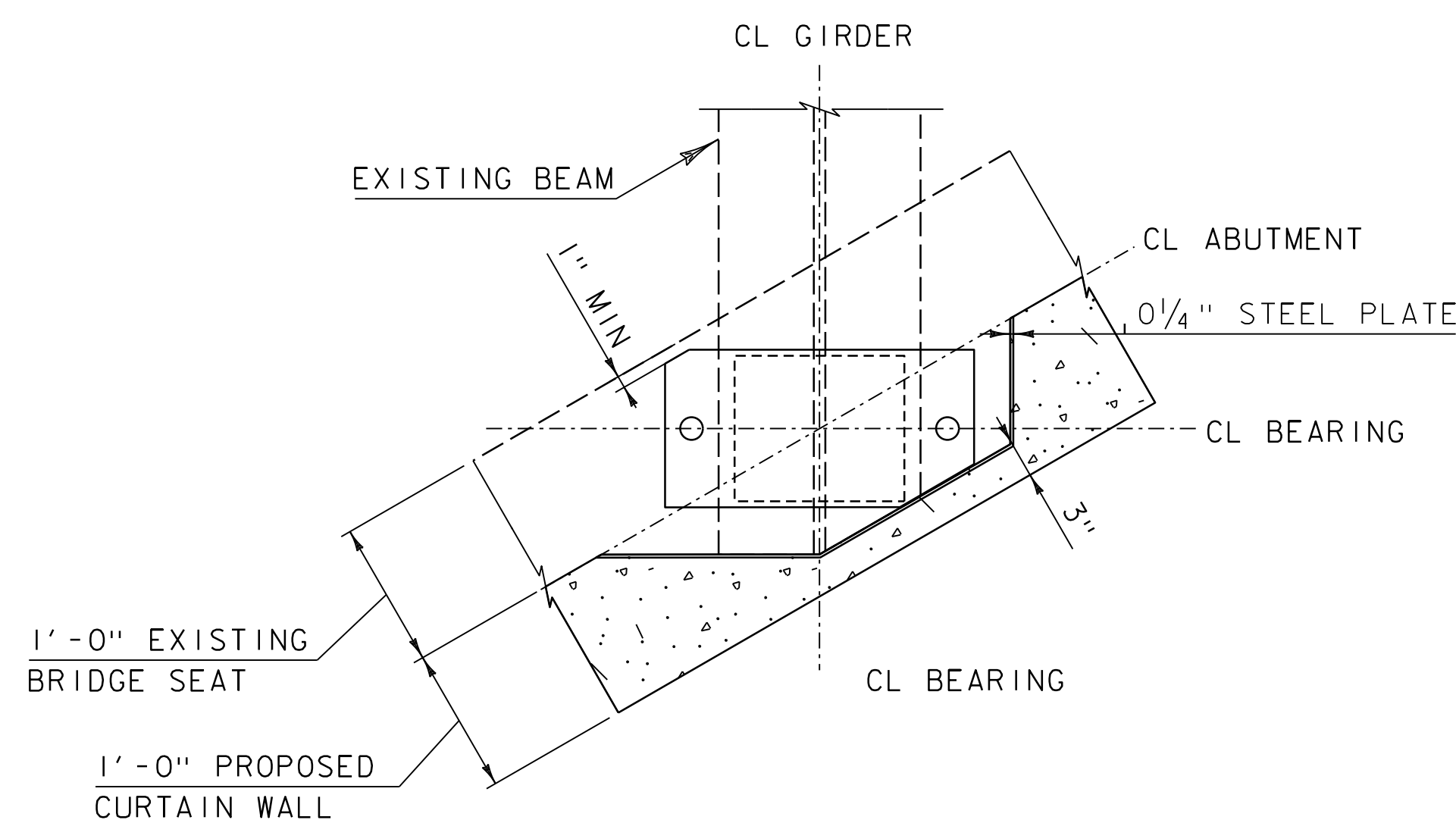
**END OF BEAM CONCRETE  
ENCASEMENT ELEVATION***

SCALE 1" = 1'-0"

**NOTE:**

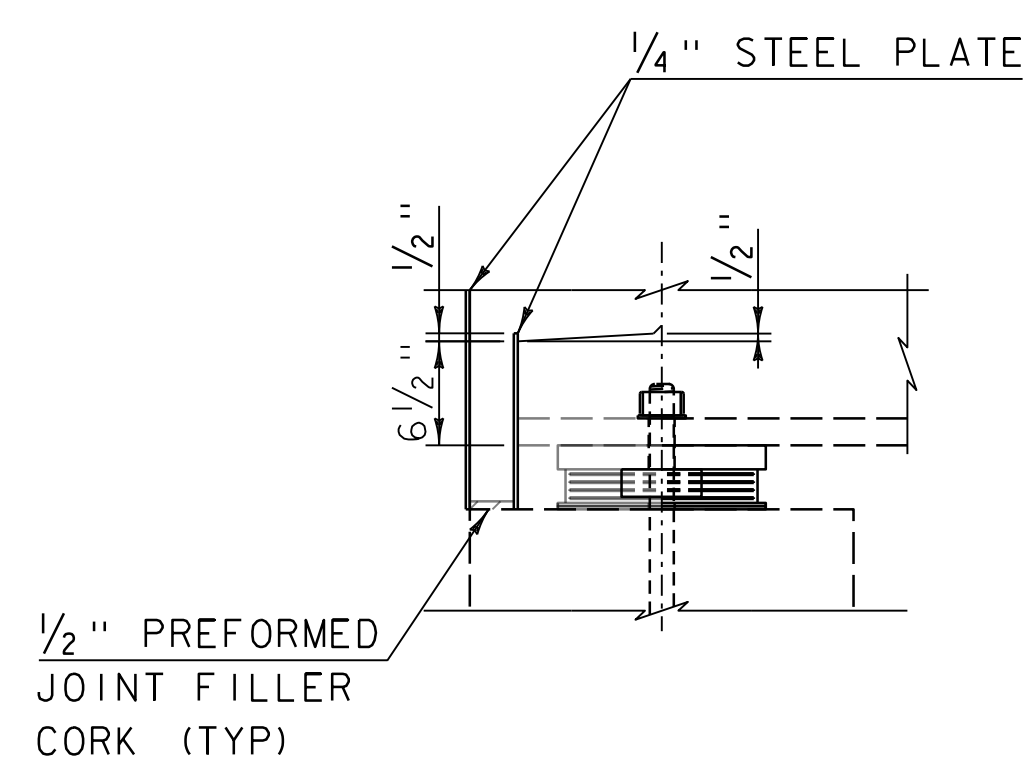
* ADDITIONAL CONCRETE ENCASEMENT BETWEEN THE TOP AND BOTTOM FLANGE OF THE EXISTING GIRDERS SHALL BE PLACED AT THE DISCRETION OF THE RESIDENT ENGINEER TO ACCOUNT FOR SECTION LOSS. THE TOTAL LENGTH OF THIS NEW CONCRETE ALONG THE GIRDERS SHALL BE DETERMINED BY THE RESIDENT ENGINEER.

FIXED BEARINGS SHOWN.  
SEE BEARING DETAILS FOR EXPANSION BEARINGS.



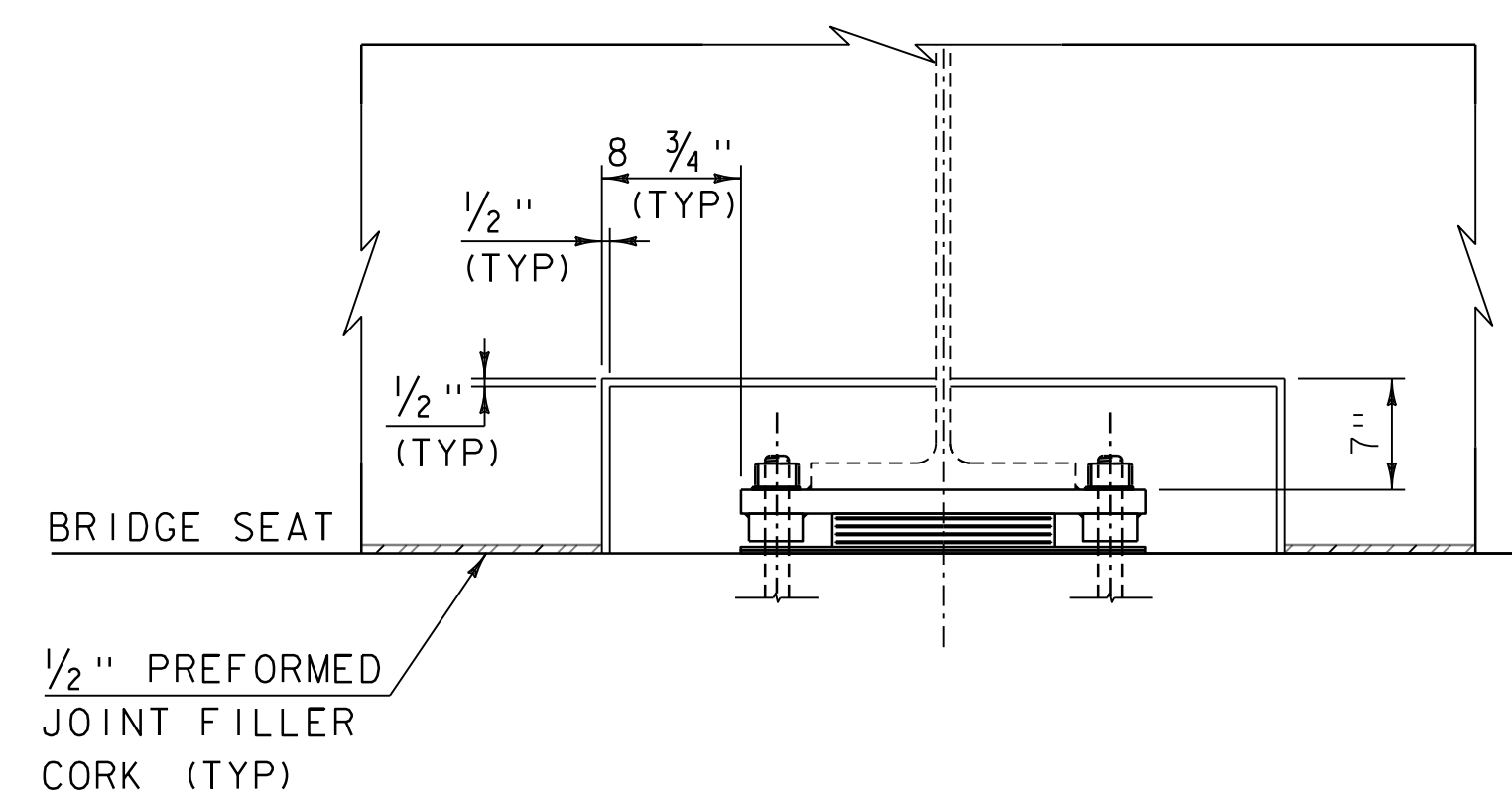
**BLOCKOUT DETAIL FOR BEARING REPLACEMENT**

SCALE 1" = 1'-0"



**CONCRETE CURTAIN WALL PROFILE  
AROUND BEARINGS AT ABUTMENTS**

SCALE 1" = 1'-0"



**BLOCKOUT ELEVATION FOR BEARING REPLACEMENT**

SCALE 1" = 1'-0"

**NOTE:**

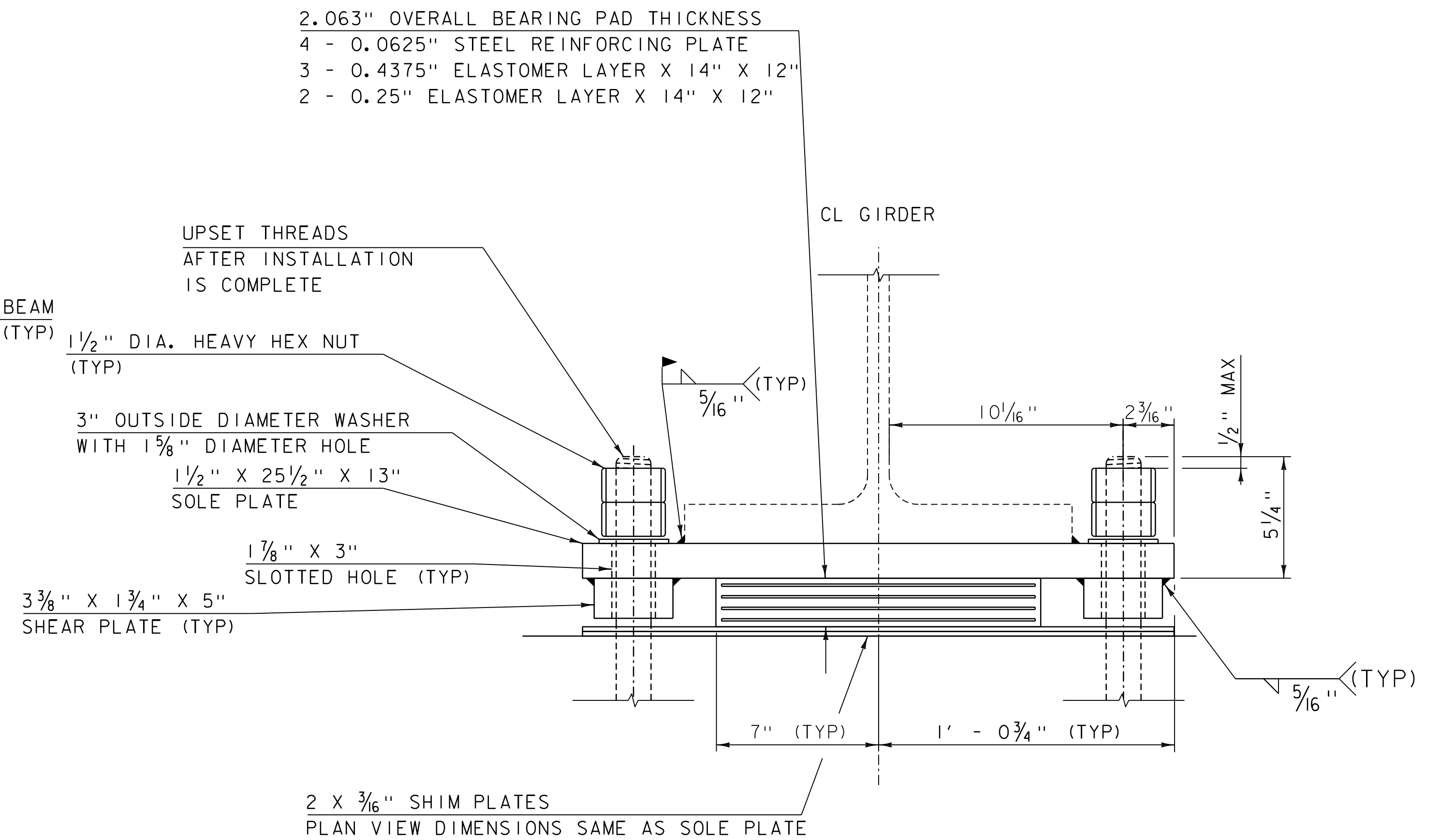
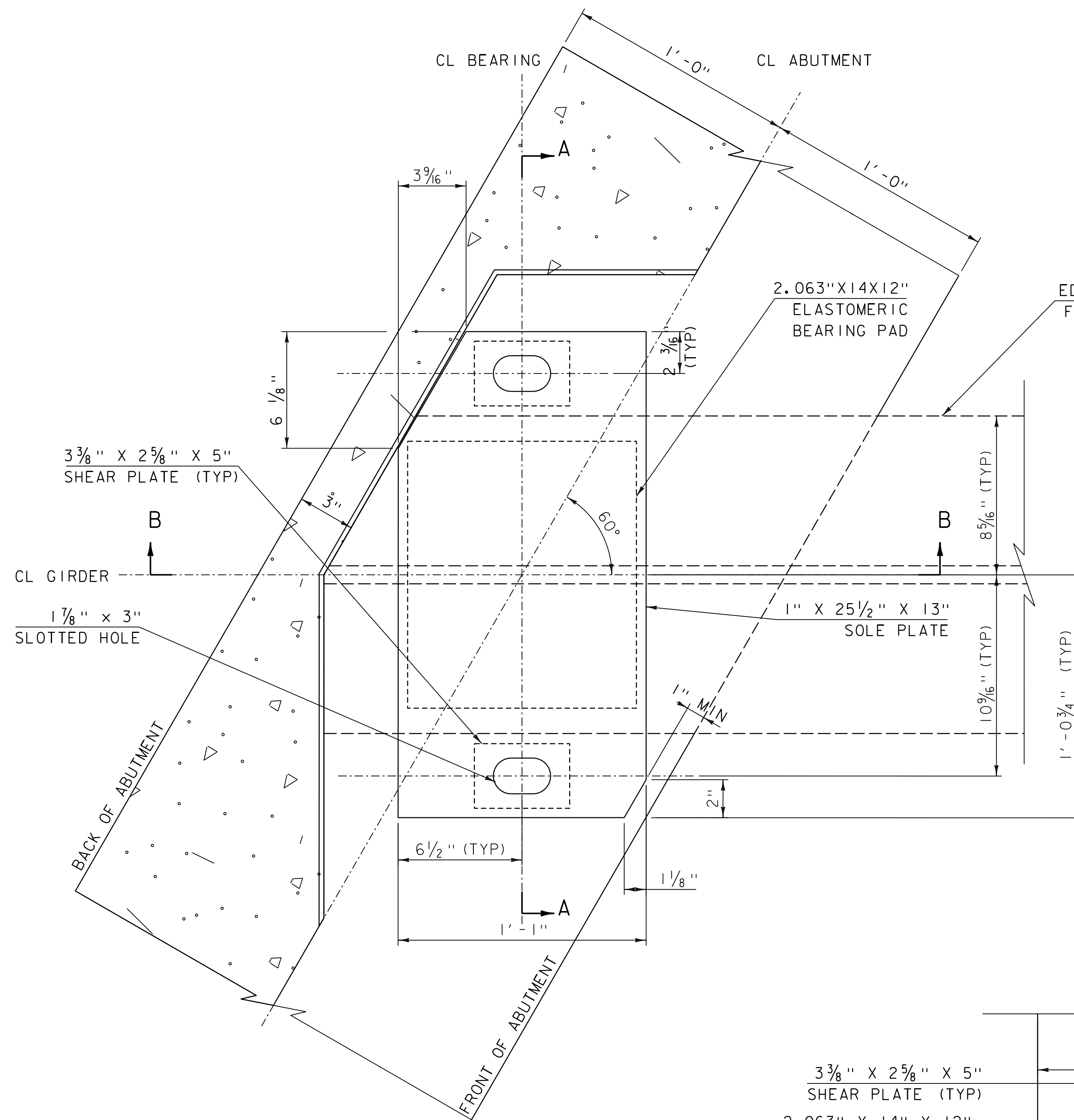
NF = NEAR FACE  
FF = FAR FACE  
EF = EACH FACE  
▲ = CUT TO FIT IN FIELD  
3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.  
2'-2" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(5I)

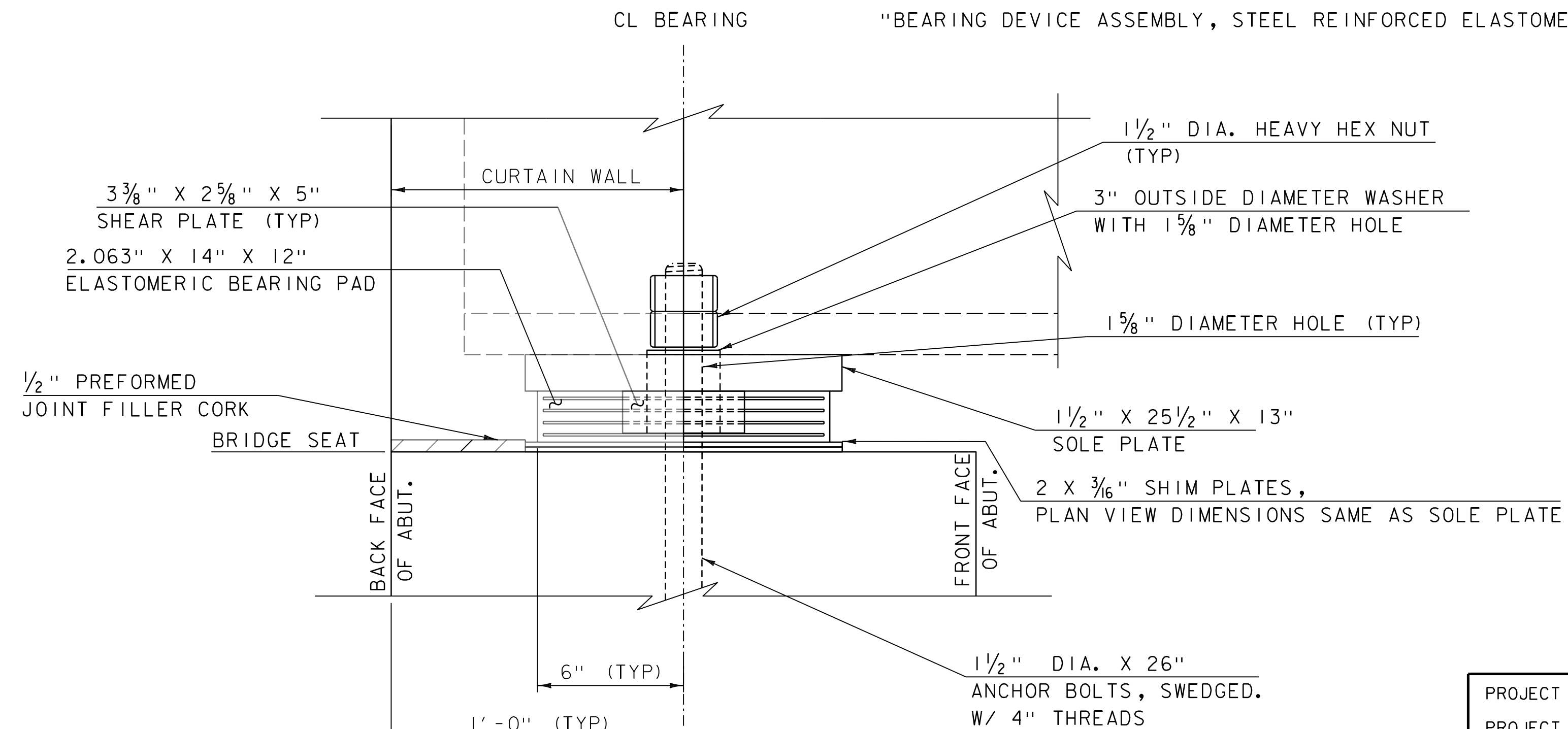
FILE NAME: sl9b2l8sub.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: J. PAQUETTE  
CURTAINWALL DETAILS

PLOT DATE: 15-MAY-2023  
DRAWN BY: J. PAQUETTE  
CHECKED BY: D. PETERSON  
SHEET 26 OF 37





NOTE:  
ANCHOR BOLTS SHALL HAVE A MINIMUM 18 INCHES EMBEDMENT INTO THE CONCRETE, AND SHALL CONFORM TO SUBSECTION 714.08. ANCHOR BOLTS SHALL BE F1554 GRADE 105. PAYMENT FOR DILLING AND GROUTING ANCHOR BOLTS SHALL BE INCIDENTAL TO ITEM 531.18 "BEARING DEVICE ASSEMBLY, STEEL REINFORCED ELASTOMERIC PAD WITH EXTERNAL LOAD PLATES"

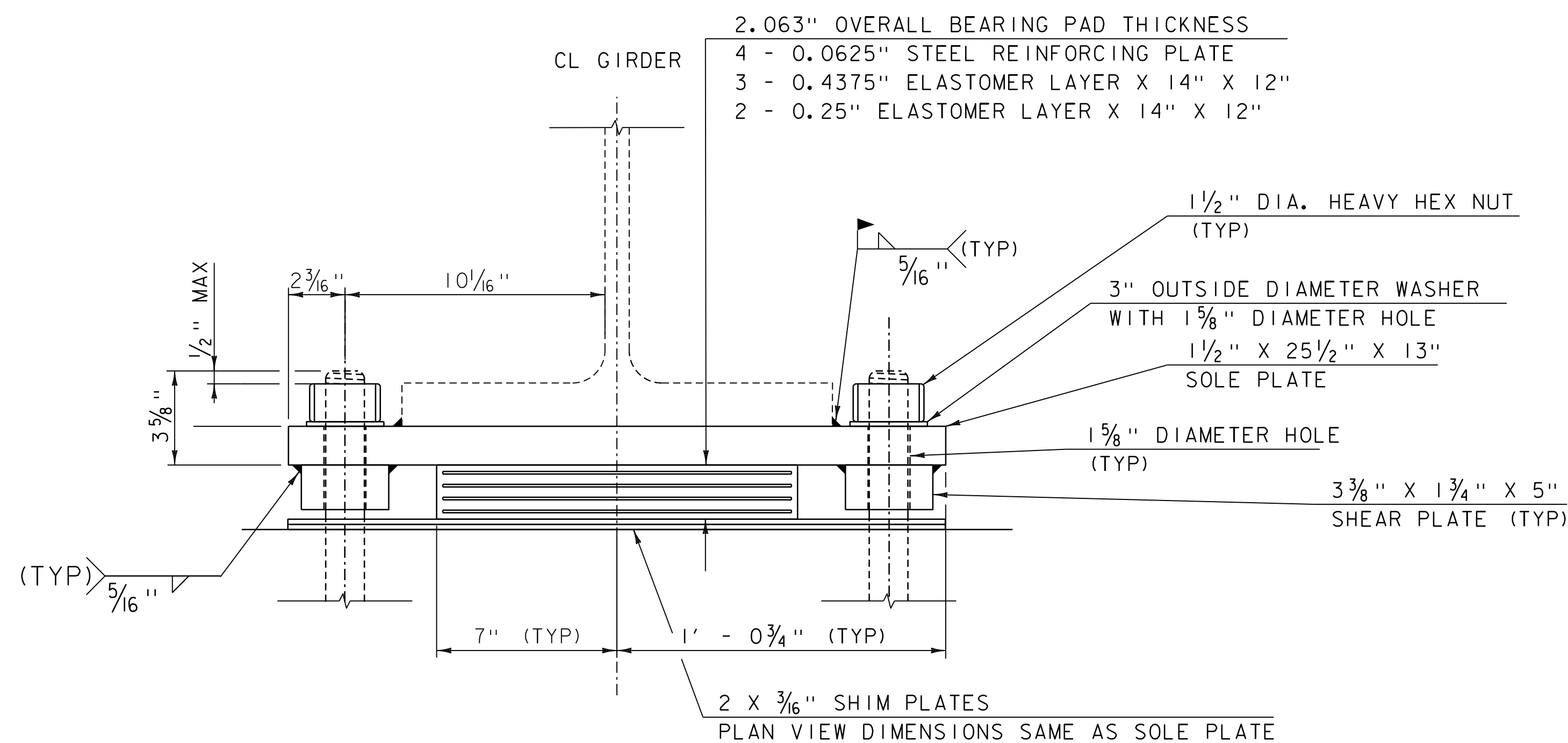


PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(5I)

FILE NAME: I9B218sub.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: J. PAQUETTE  
EXPANSION BEARING DETAILS BEAMS I-4

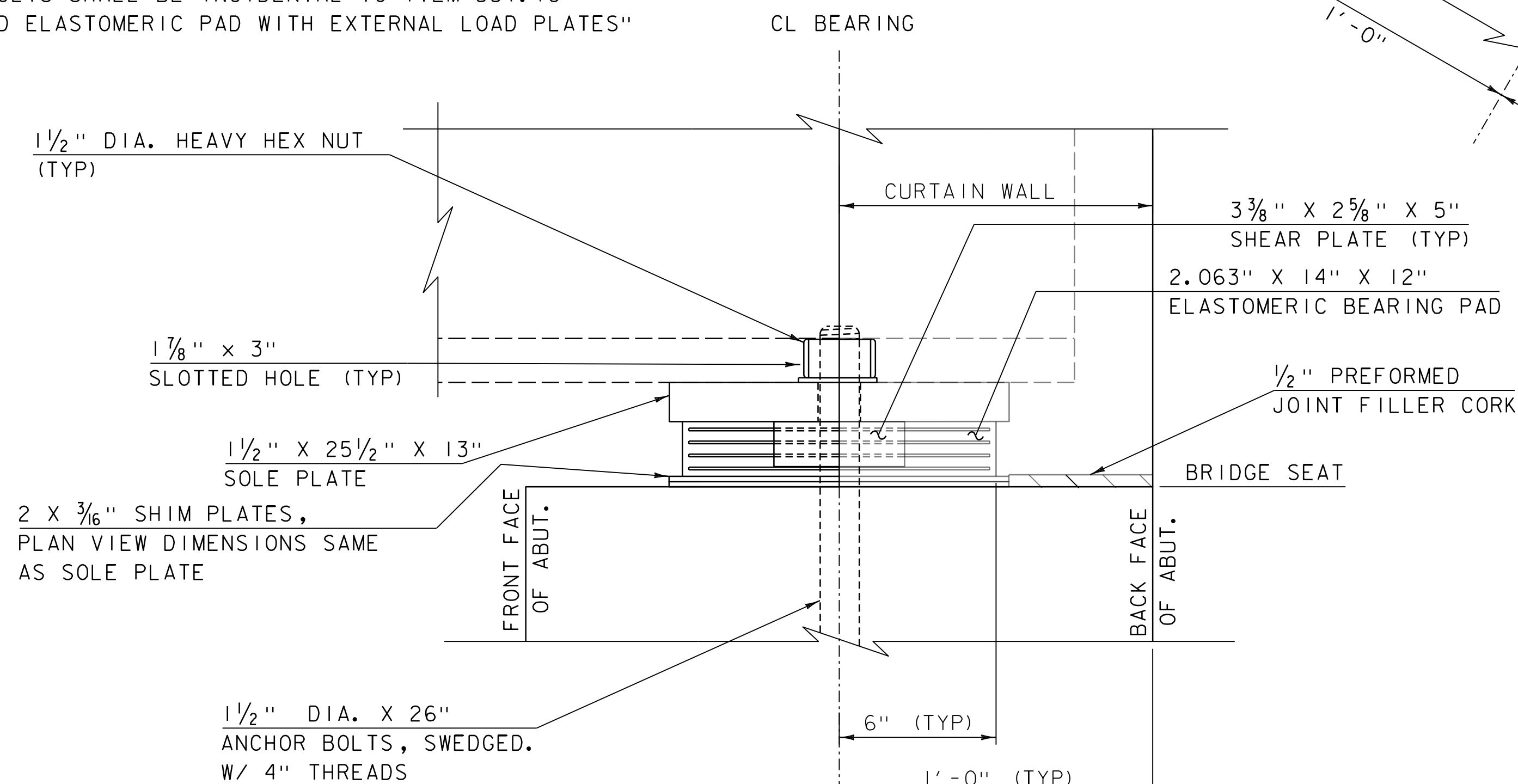
PLOT DATE: 15-MAY-2023  
DRAWN BY: J. PAQUETTE  
CHECKED BY: D. PETERSON  
SHEET 27 OF 37



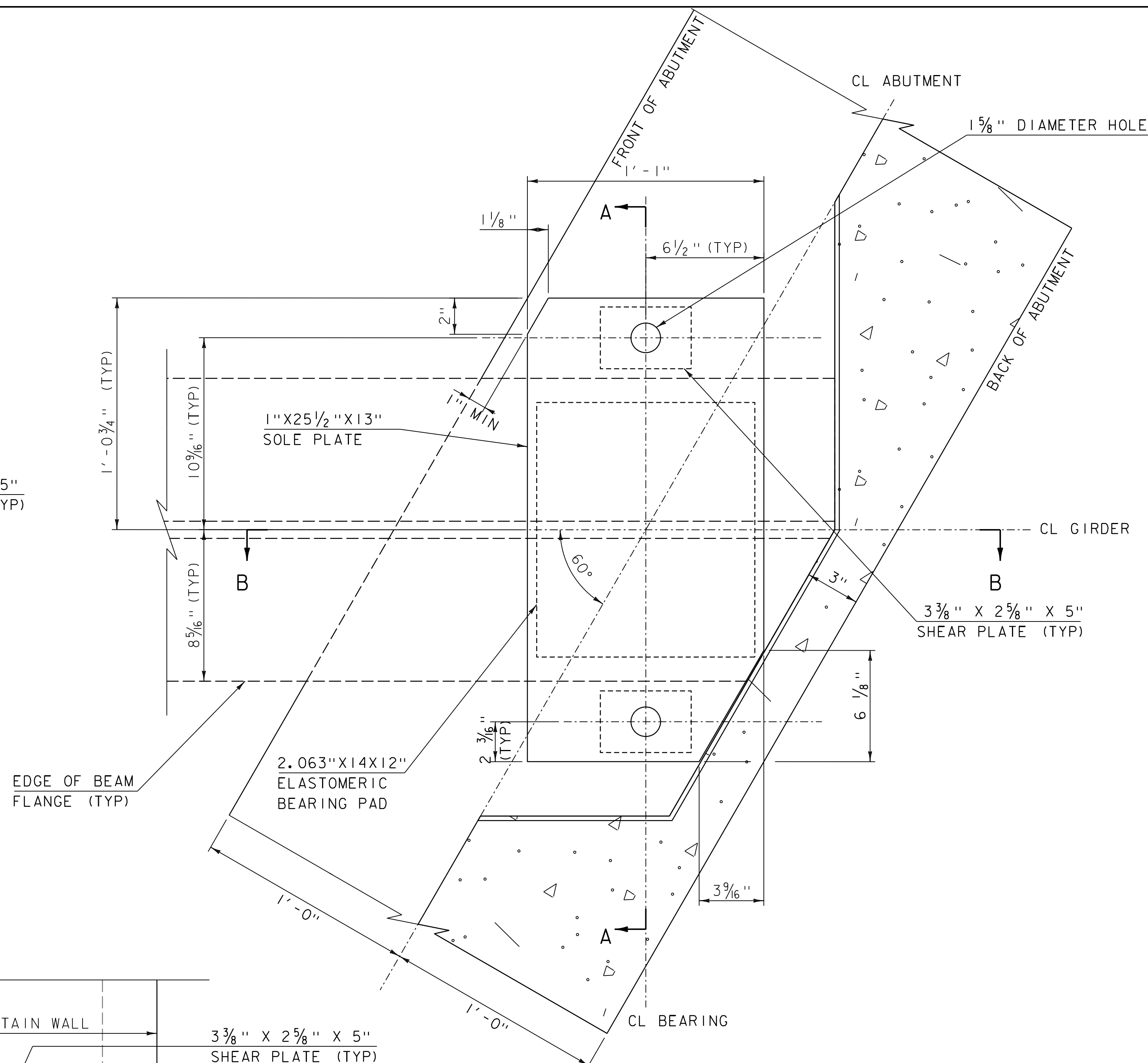


**SECTION A-A**  
SCALE: 3" = 1' - 0"

NOTE:  
ANCHOR BOLTS SHALL HAVE A MINIMUM 18 INCHES EMBEDMENT INTO THE CONCRETE,  
AND SHALL CONFORM TO SUBSECTION 714.08. ANCHOR BOLTS SHALL BE F1554 GRADE 105.  
PAYMENT FOR DILLING AND GROUTING ANCHOR BOLTS SHALL BE INCIDENTAL TO ITEM 531.18  
"BEARING DEVICE ASSEMBLY, STEEL REINFORCED ELASTOMERIC PAD WITH EXTERNAL LOAD PLATES"



**SECTION B-B**  
SCALE: 3" = 1' - 0"



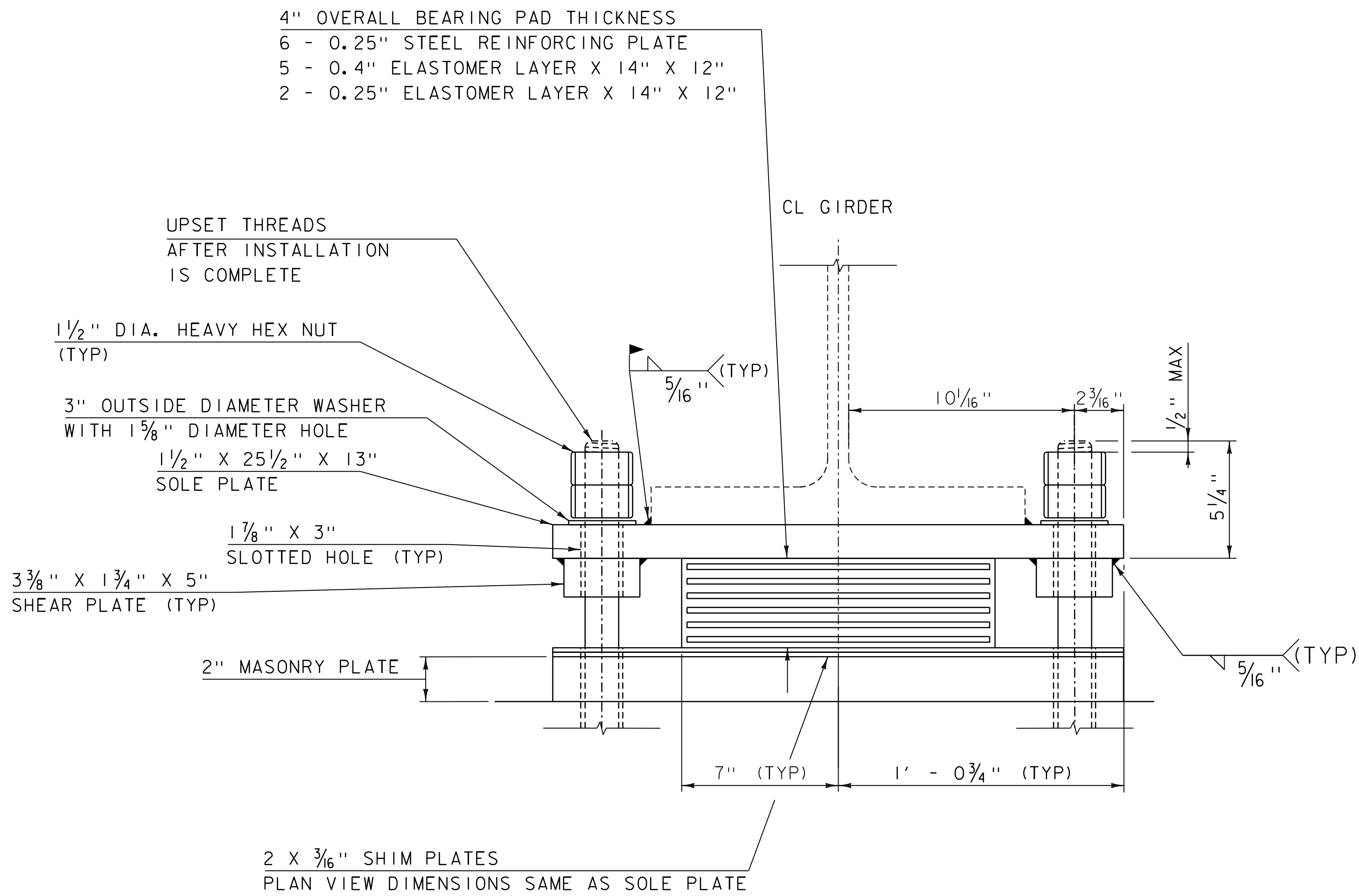
**BEARING PLAN**  
SCALE: 3" = 1' - 0"

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(5I)

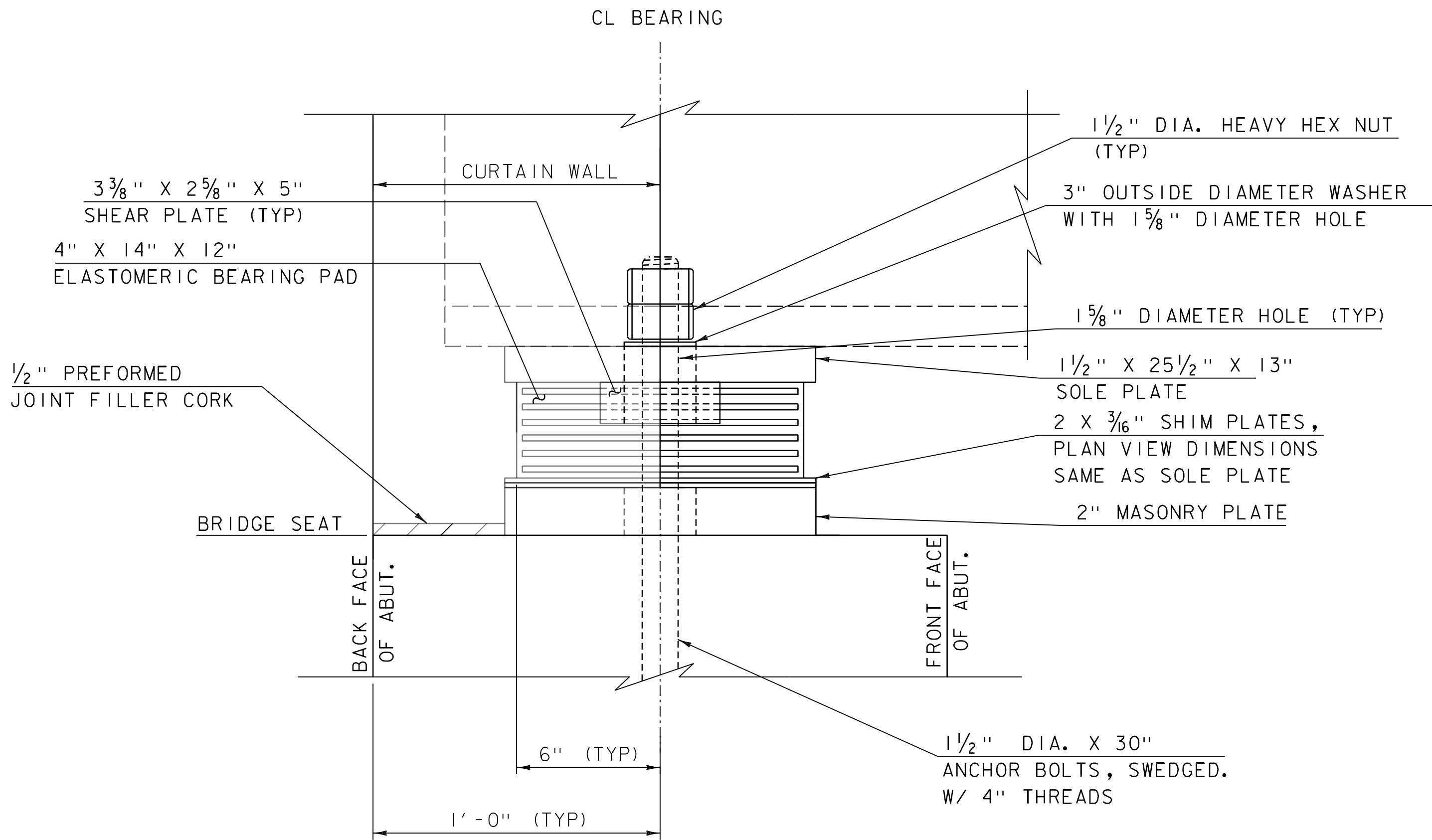
FILE NAME: I9B218sub.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: J. PAQUETTE  
FIXED BEARING DETAILS BEAMS I-4

PLOT DATE: 15-MAY-2023  
DRAWN BY: J. PAQUETTE  
CHECKED BY: D. PETERSON  
SHEET 28 OF 37





SECTION A-A FOR BEAMS 5 AND 6  
SCALE: 3" = 1'-0"



SECTION B-B FOR BEAMS 5 AND 6  
SCALE: 3" = 1'-0"

- NOTE:
- ANCHOR BOLTS SHALL HAVE A MINIMUM 18 INCHES EMBEDMENT INTO THE CONCRETE, AND SHALL CONFORM TO SUBSECTION 714.08. ANCHOR BOLTS SHALL BE F1554 GRADE 105. PAYMENT FOR DILLING AND GROUTING ANCHOR BOLTS SHALL BE INCIDENTAL TO ITEM 531.18 "BEARING DEVICE ASSEMBLY, STEEL REINFORCED ELASTOMERIC PAD WITH EXTERNAL LOAD PLATES"
  - PLAN VIEW INFORMATION SAME AS FOR GIRDERS 1 THORUGH 4.
  - MASONRY PLATE FOR GIRDER 6 ONLY.

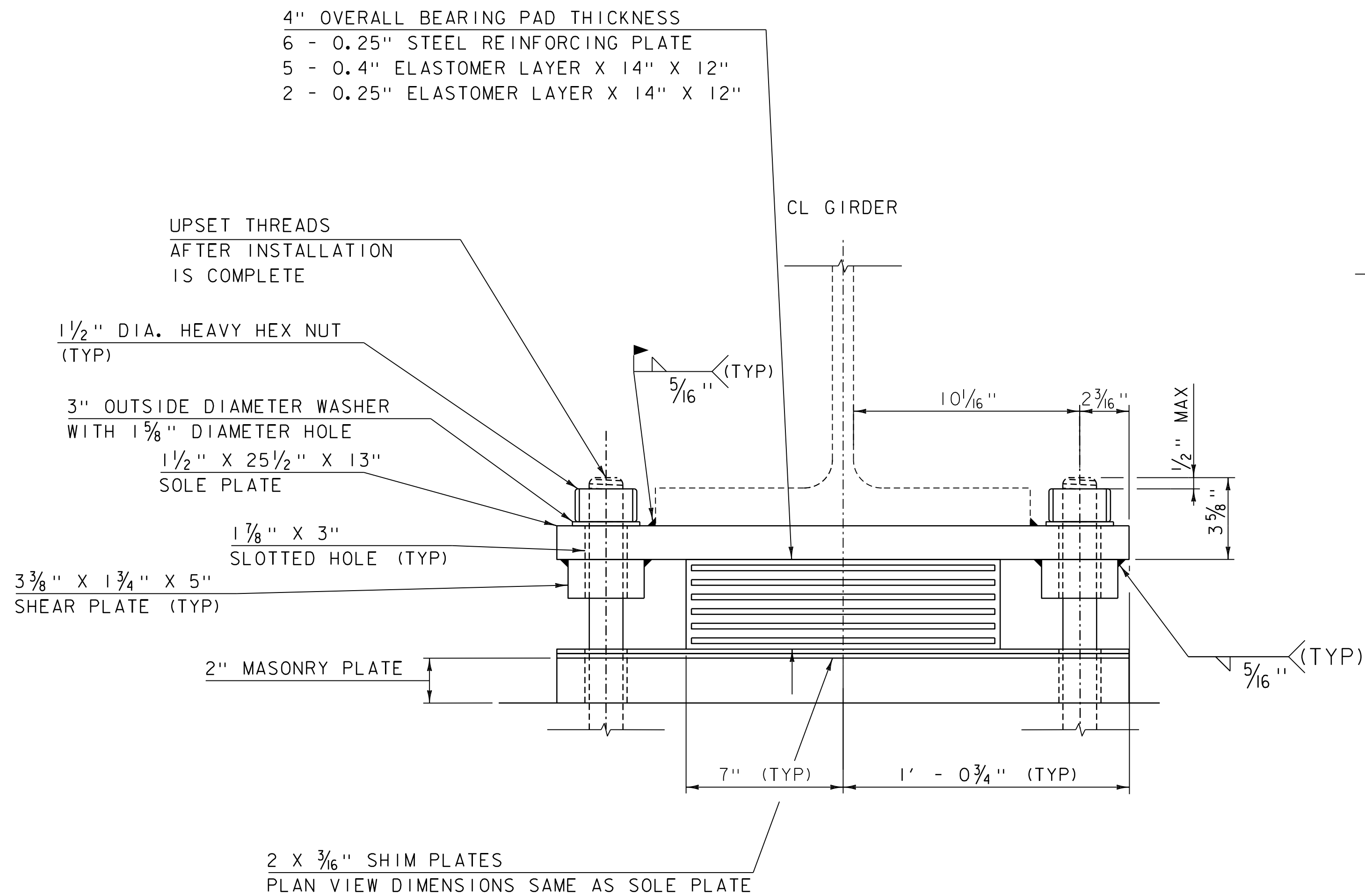
BOTTOM OF GIRDER ELEVATIONS											
GIRDER 1		GIRDER 2		GIRDER 3		GIRDER 4		GIRDER 5		GIRDER 6	
Abut 1	Abut 2	Abut 1	Abut 2	Abut 1	Abut 2	Abut 1	Abut 2	Abut 1	Abut 2	Abut 1	Abut 2
448.86	446.28	446.86	446.55	449.08	446.81	449.12	446.86	449.29	447.06	449.51	447.19

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(5I)

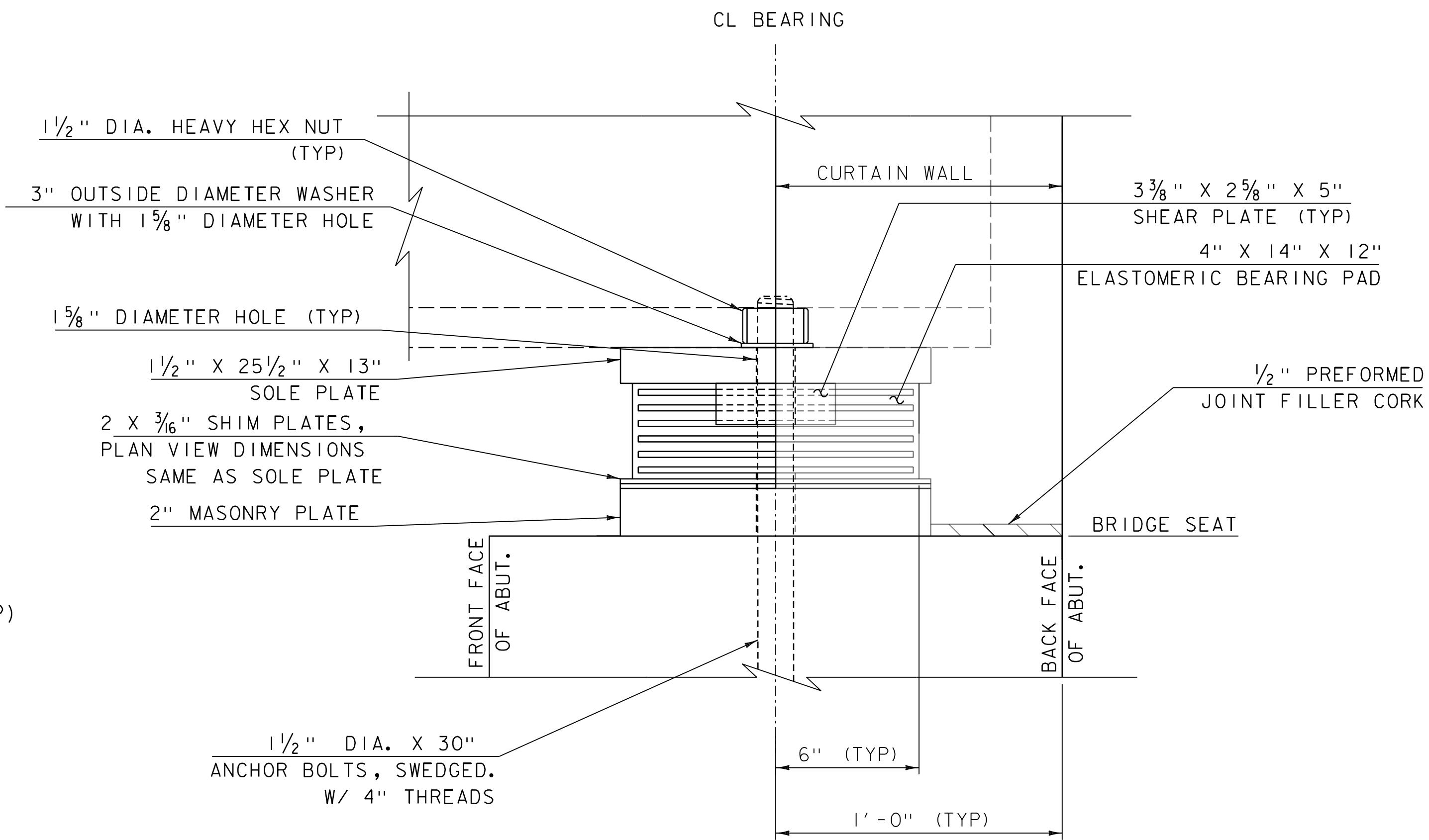
FILE NAME: I9B218sub.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: J. PAQUETTE  
EXPANSION BEARING DETAILS FOR BEAMS 5&6 SHEET 29 OF 37

PLOT DATE: 15-MAY-2023  
DRAWN BY: J. PAQUETTE  
CHECKED BY: D. PETERSON





SECTION A-A FOR BEAMS 5 AND 6  
SCALE: 3" = 1'-0"



SECTION B-B FOR BEAMS 5 AND 6  
SCALE: 3" = 1'-0"

- NOTE:
- ANCHOR BOLTS SHALL HAVE A MINIMUM 18 INCHES EMBEDMENT INTO THE CONCRETE, AND SHALL CONFORM TO SUBSECTION 714.08. ANCHOR BOLTS SHALL BE F1554 GRADE 105. PAYMENT FOR DILLING AND GROUTING ANCHOR BOLTS SHALL BE INCIDENTAL TO ITEM 531.18 "BEARING DEVICE ASSEMBLY, STEEL REINFORCED ELASTOMERIC PAD WITH EXTERNAL LOAD PLATES"
  - PLAN VIEW INFORMATION SAME AS FOR GIRDERS 1 THORUGH 4.
  - MASONRY PLATE FOR GIRDER 6 ONLY.

BOTTOM OF GIRDER ELEVATIONS											
GIRDER 1		GIRDER 2		GIRDER 3		GIRDER 4		GIRDER 5		GIRDER 6	
Abut 1	Abut 2	Abut 1	Abut 2	Abut 1	Abut 2	Abut 1	Abut 2	Abut 1	Abut 2	Abut 1	Abut 2
448.86	446.28	446.86	446.55	449.08	446.81	449.12	446.86	449.29	447.06	449.51	447.19

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(5I)

FILE NAME: I9B218sub.dgn PLOT DATE: 15-MAY-2023  
PROJECT LEADER: R. YOUNG DRAWN BY: J. PAQUETTE  
DESIGNED BY: J. PAQUETTE CHECKED BY: D. PETERSON  
FIXED BEARING DETAILS FOR BEAMS 5 AND 6 SHEET 30 OF 37



# REINFORCING STEEL SCHEDULE

## ~ NOTES ~

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. * DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
11. E IN BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.

ASTM STANDARD REINFORCING BARS				
BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	AREA INCHES ²	PERIMETER INCHES
#3	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.04	0.875	0.60	2.749
#8	2.670	1.000	0.79	3.14
#9	3.400	1.13	1.00	3.54
#10	4.3	1.270	1.27	3.990
#11	5.31	1.410	1.56	4.430
#14	7.65	1.69	2.25	5.32
#18	13.60	2.26	4.00	7.09

## ~ REINFORCING STEEL CORROSION RESISTANCE LEVEL ~

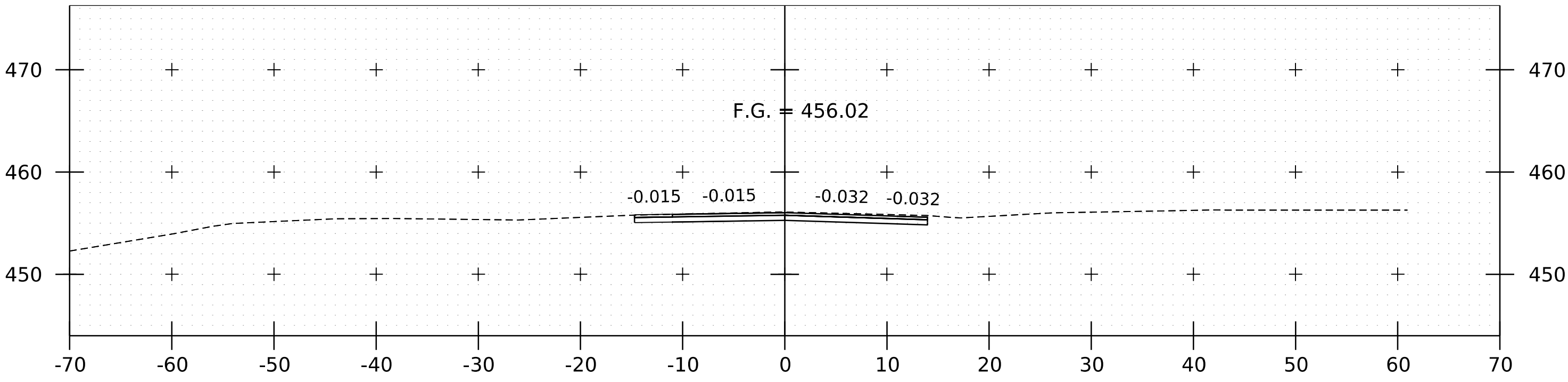
THE REINFORCING STEEL MARKS IN THIS SCHEDULE INDICATE THE REQUIRED BAR CORROSION RESISTANCE LEVEL. CORROSION RESISTANCE LEVEL IS DENOTED WITH A .2 FOR LEVEL TWO SUFFIX OR .3 FOR LEVEL THREE SUFFIX. .1 FOR LEVEL ONE IS TO BE OMITTED. THE BAR MATERIAL TYPE AND BAR STEEL GRADE PROVIDED FOR EACH CORROSION LEVEL WILL BE RECORDED ON THE PLAN SET P1 SHEET FOR AS-BUILT RECORD PLAN ARCHIVES.

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(51)

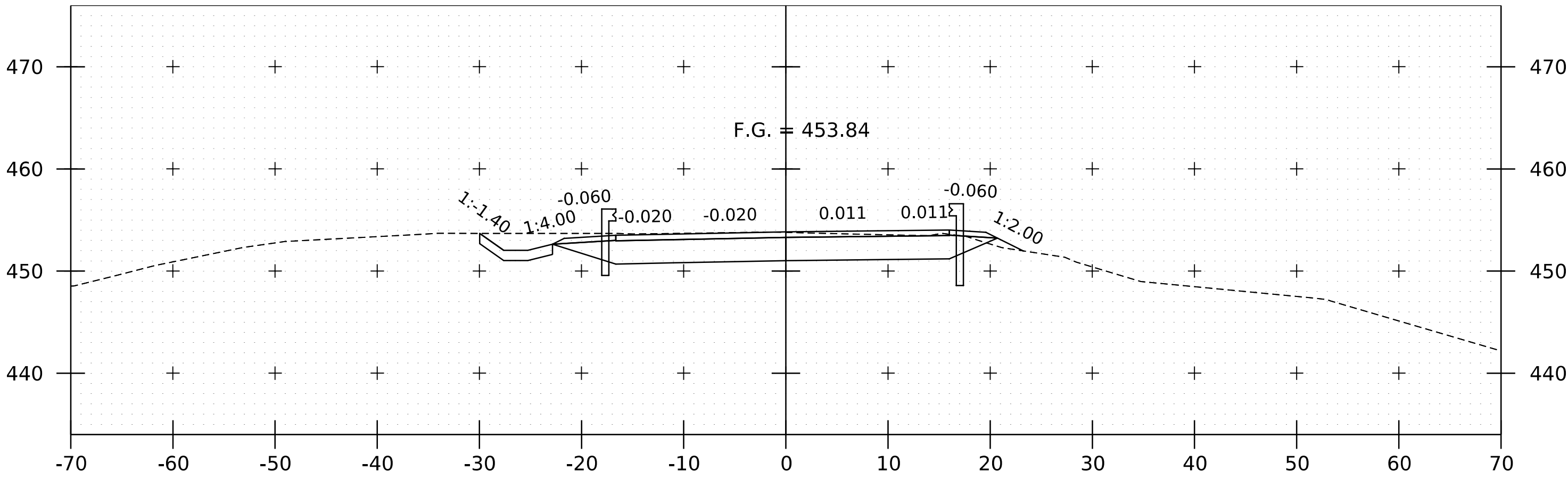
FILE NAME: s19B218RSS.dgn  
PROJECT LEADER: R.YOUNG  
DESIGNED BY: J. PAQUETTE  
REINFORCING STEEL SCHEDULE

PLOT DATE: 15-MAY-2023  
DRAWN BY: J. PAQUETTE  
CHECKED BY: Z. BULLOCK  
SHEET 31 OF 37

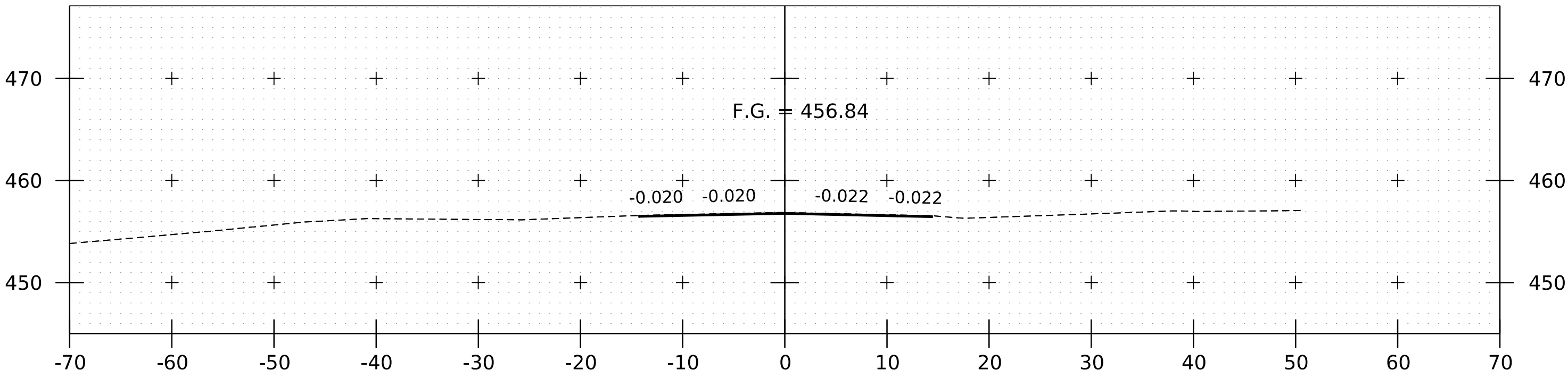




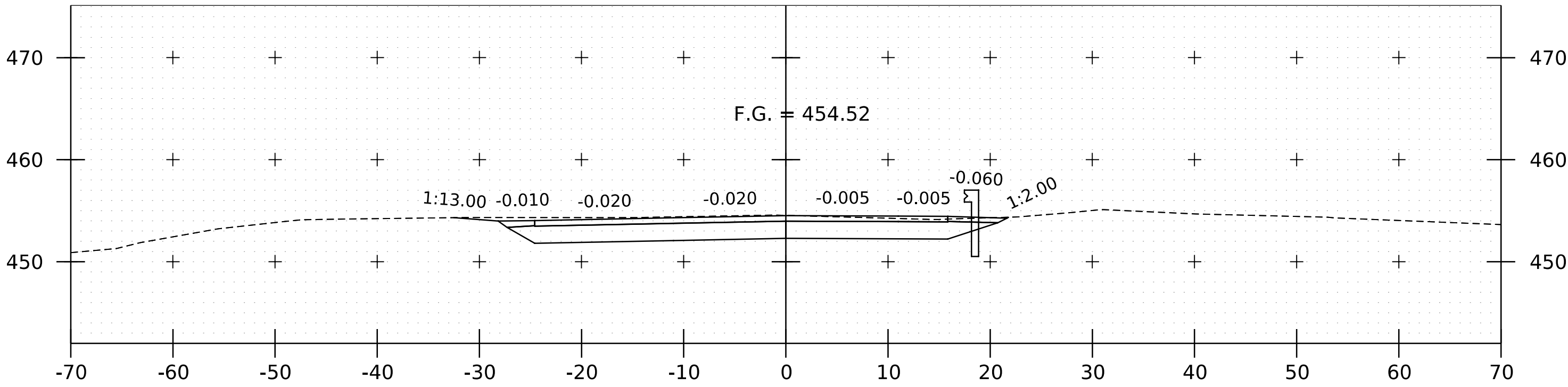
98+50  
BEGIN PROJECT STA 98+50.00



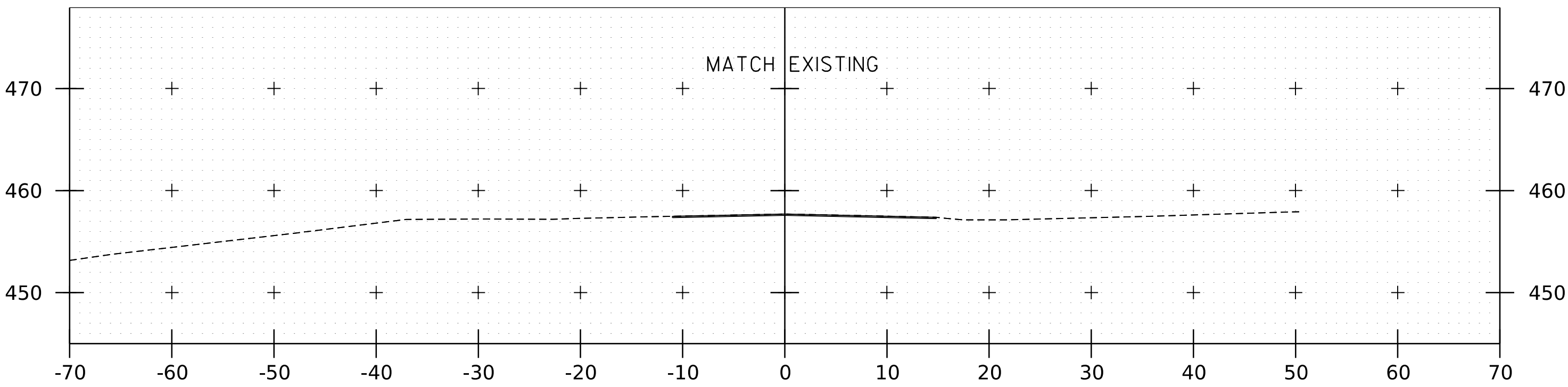
99+25



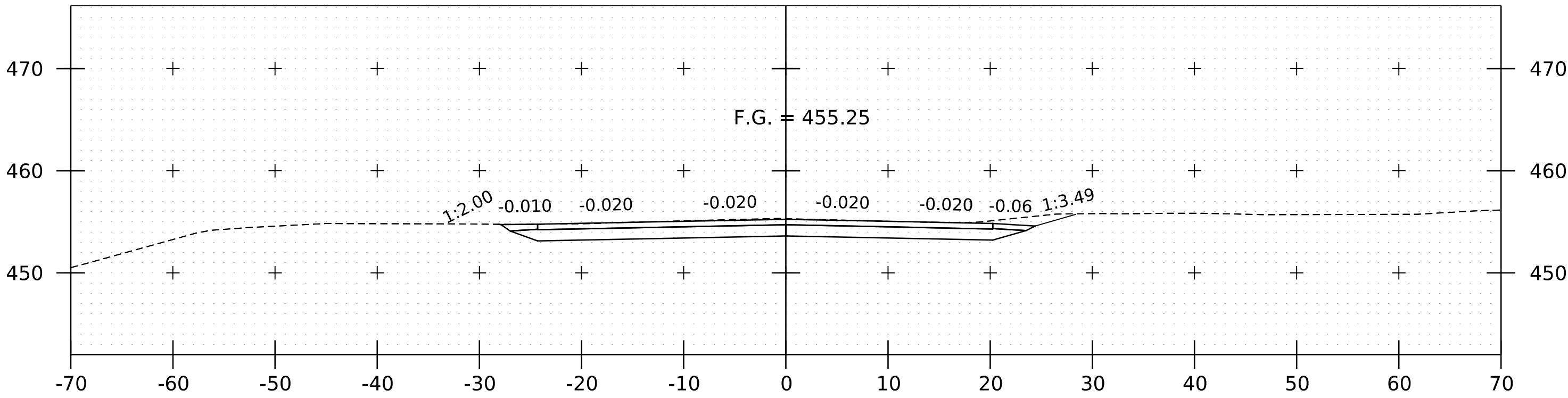
98+25



99+00



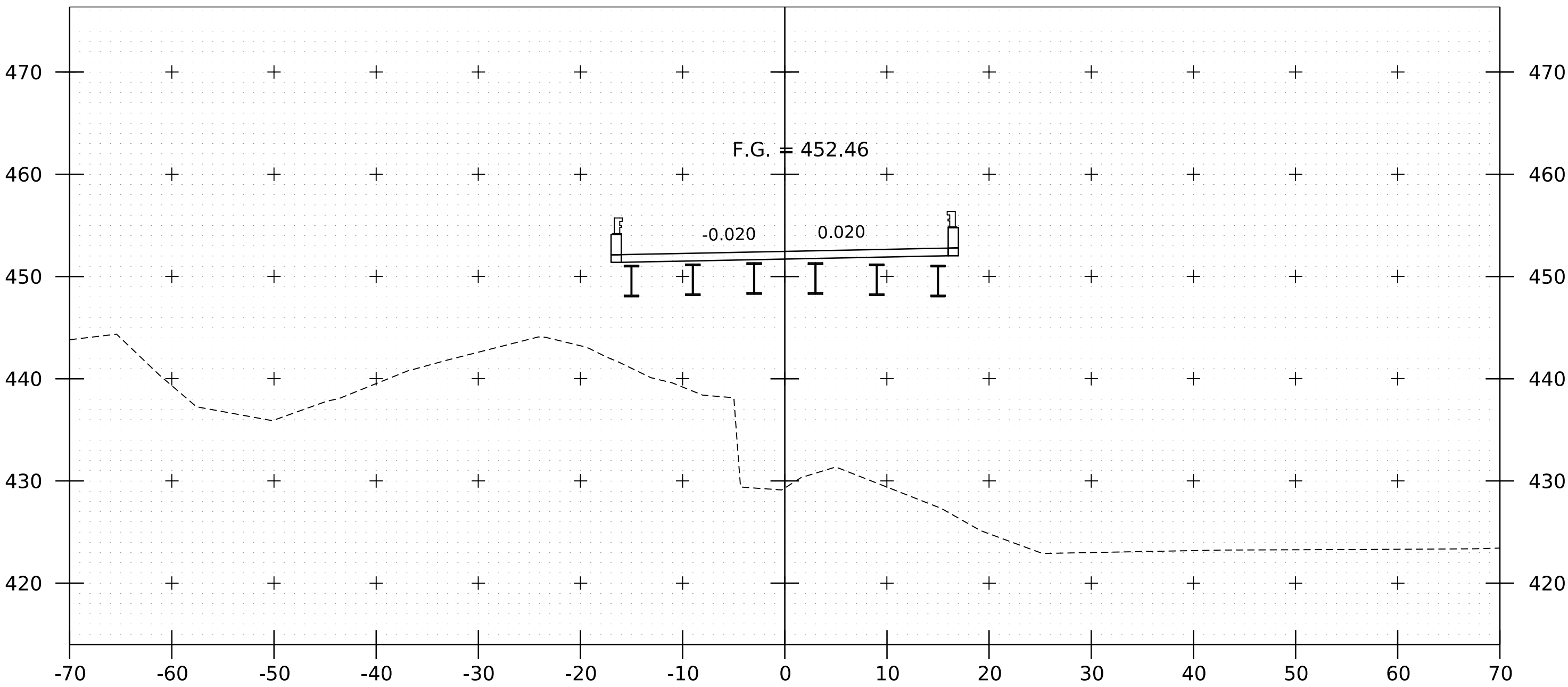
98+00  
BEGIN APPROACH STA 98+00.00



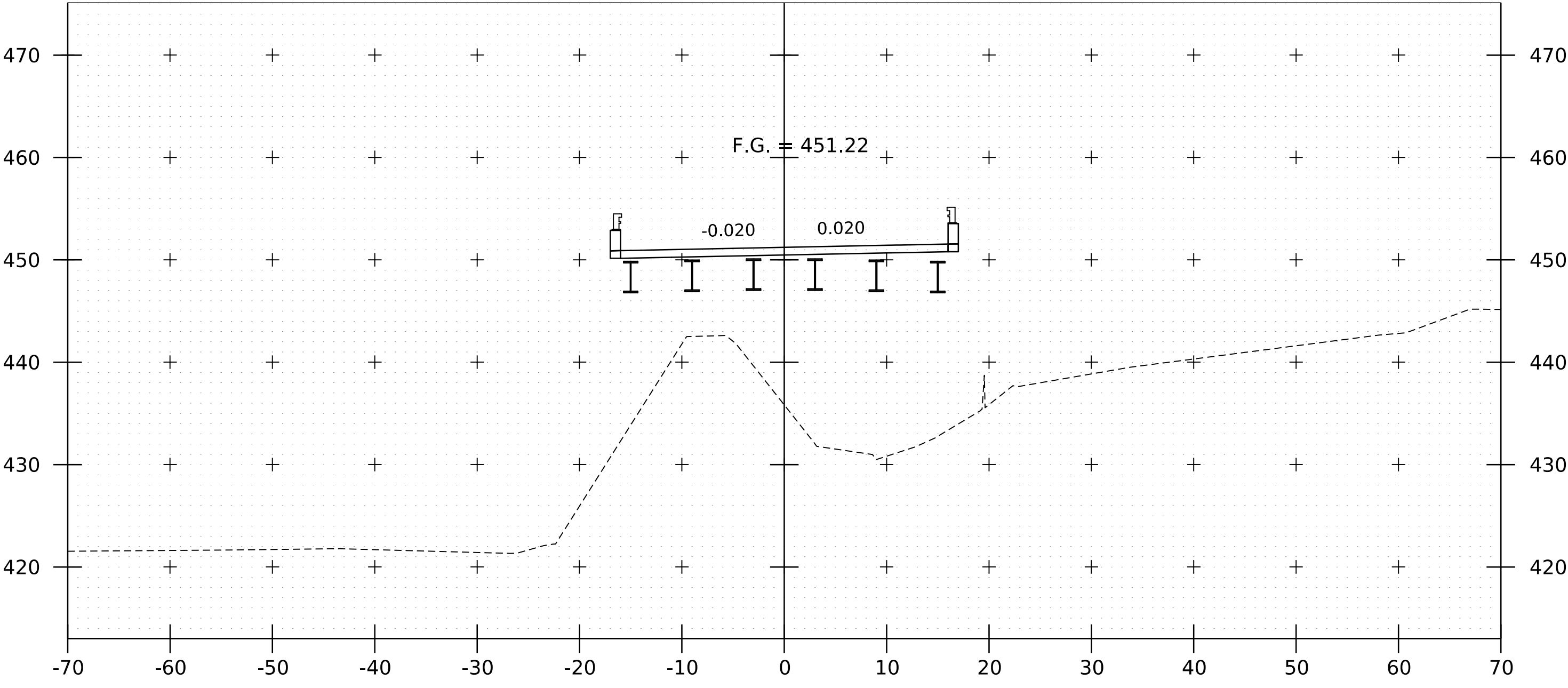
98+75

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK (5I)	
FILE NAME: I9b2I8VT36_XS.dgn	PLOT DATE: I5-MAY-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
ROADWAY CROSS SECTIONS I	SHEET 32 OF 37

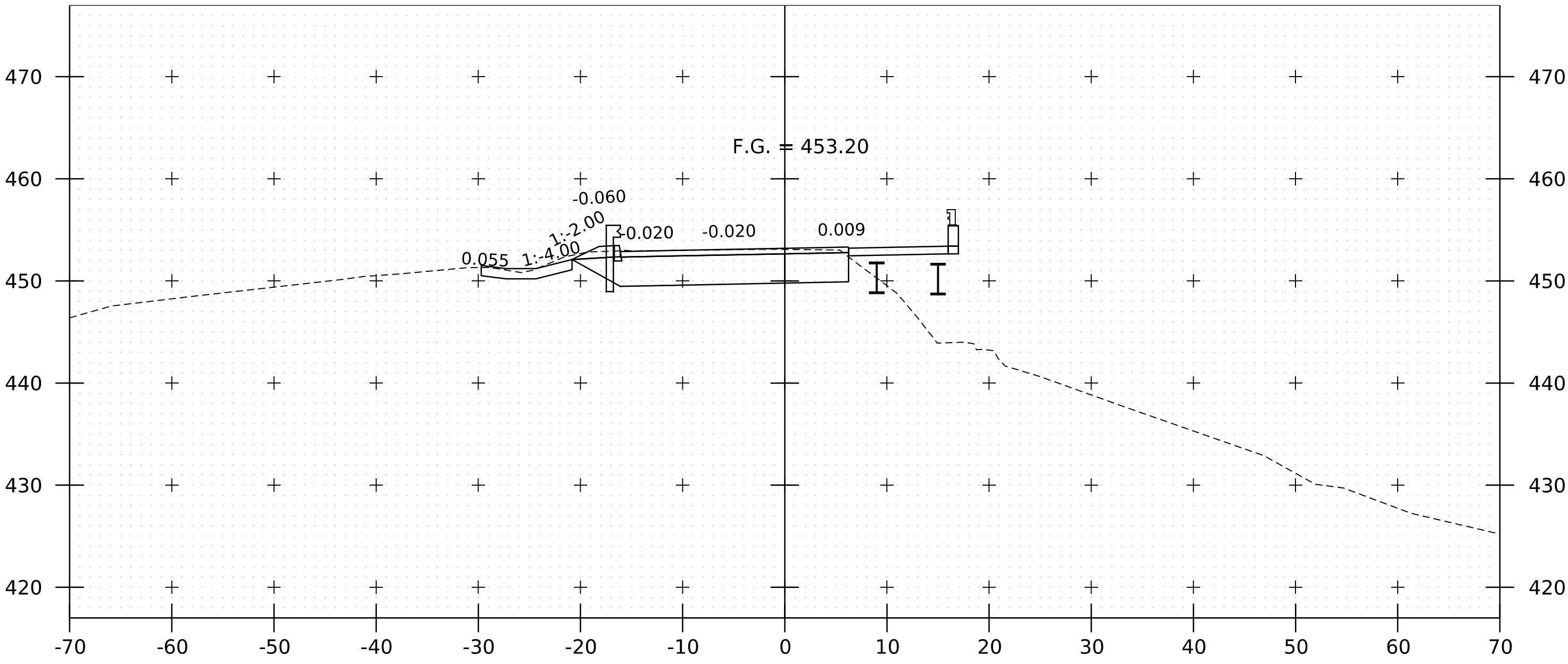




99+75

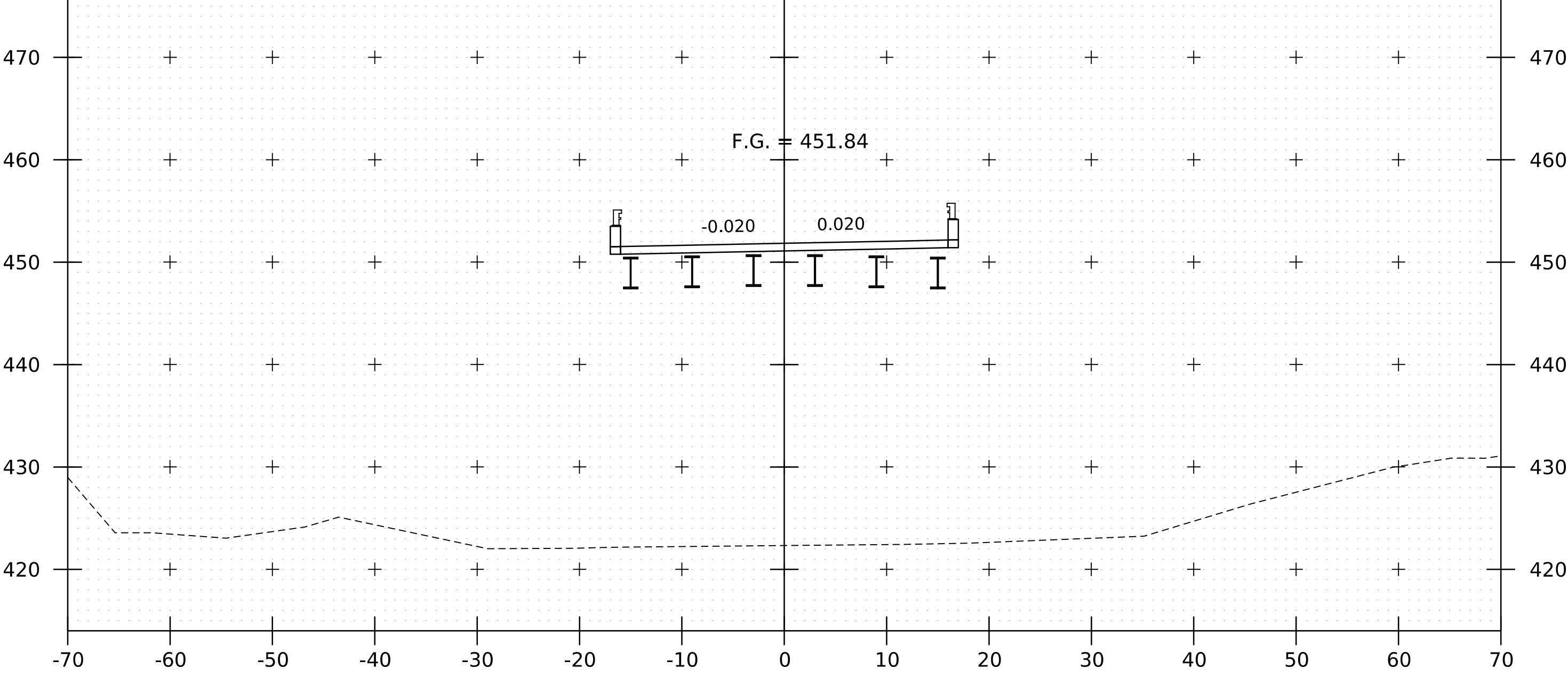


100+25



99+50

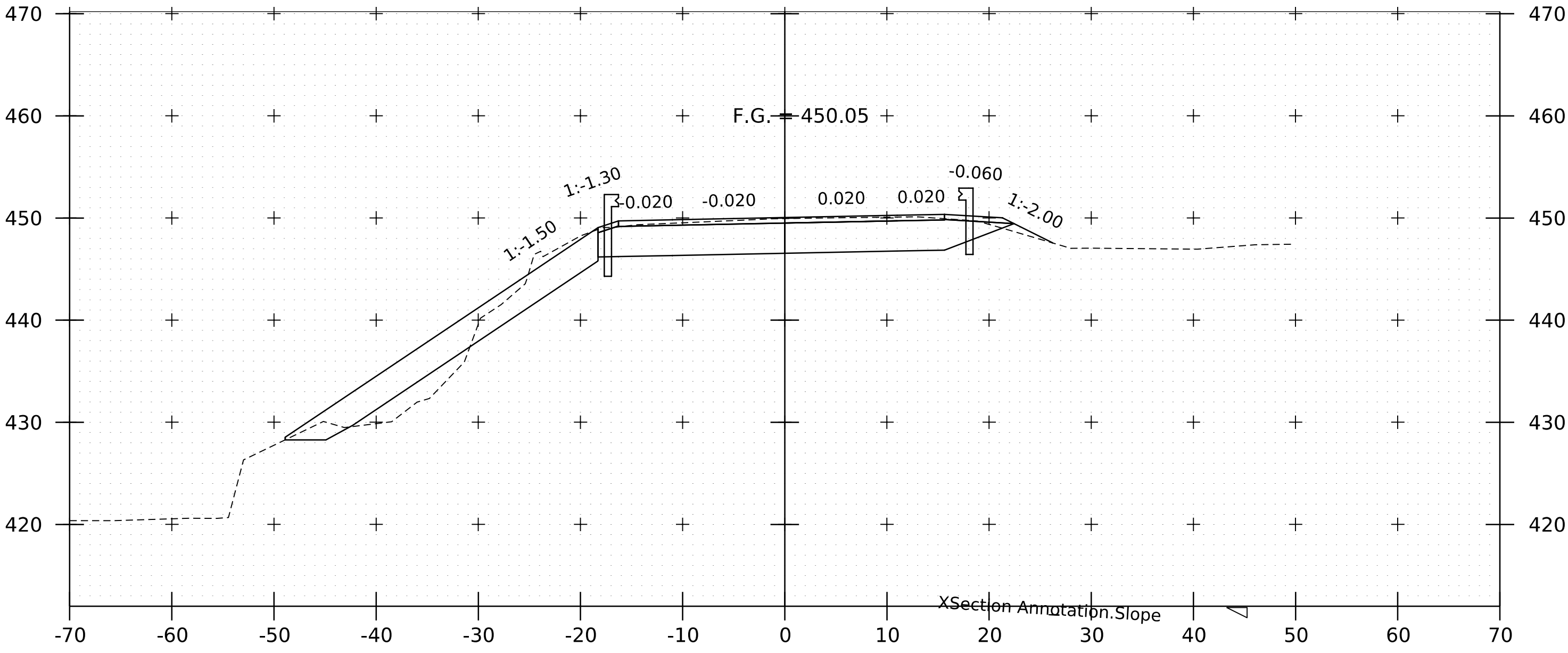
BEGIN BRIDGE STA 99+53.75



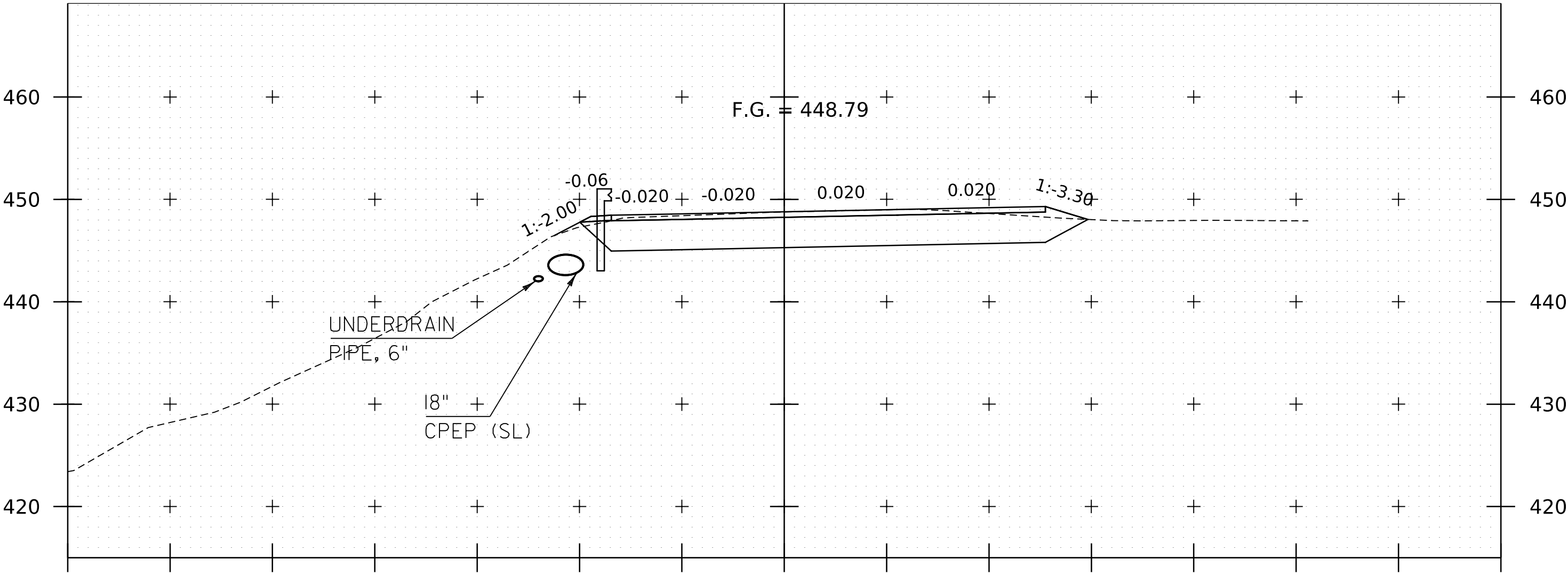
100+00

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK (5I)	
FILE NAME: I9b2I8VT36_XS.dgn	PLOT DATE: I5-MAY-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
ROADWAY CROSS SECTIONS 2	SHEET 33 OF 37

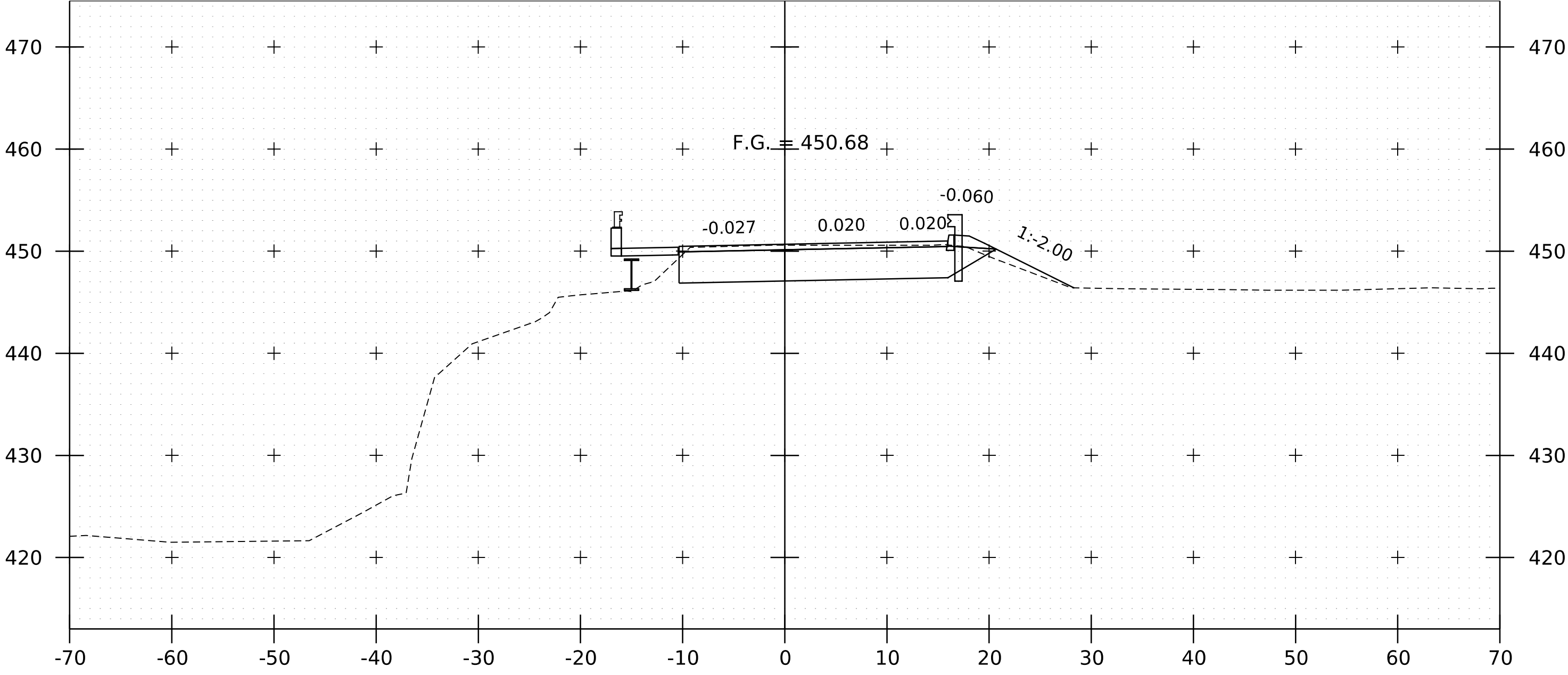




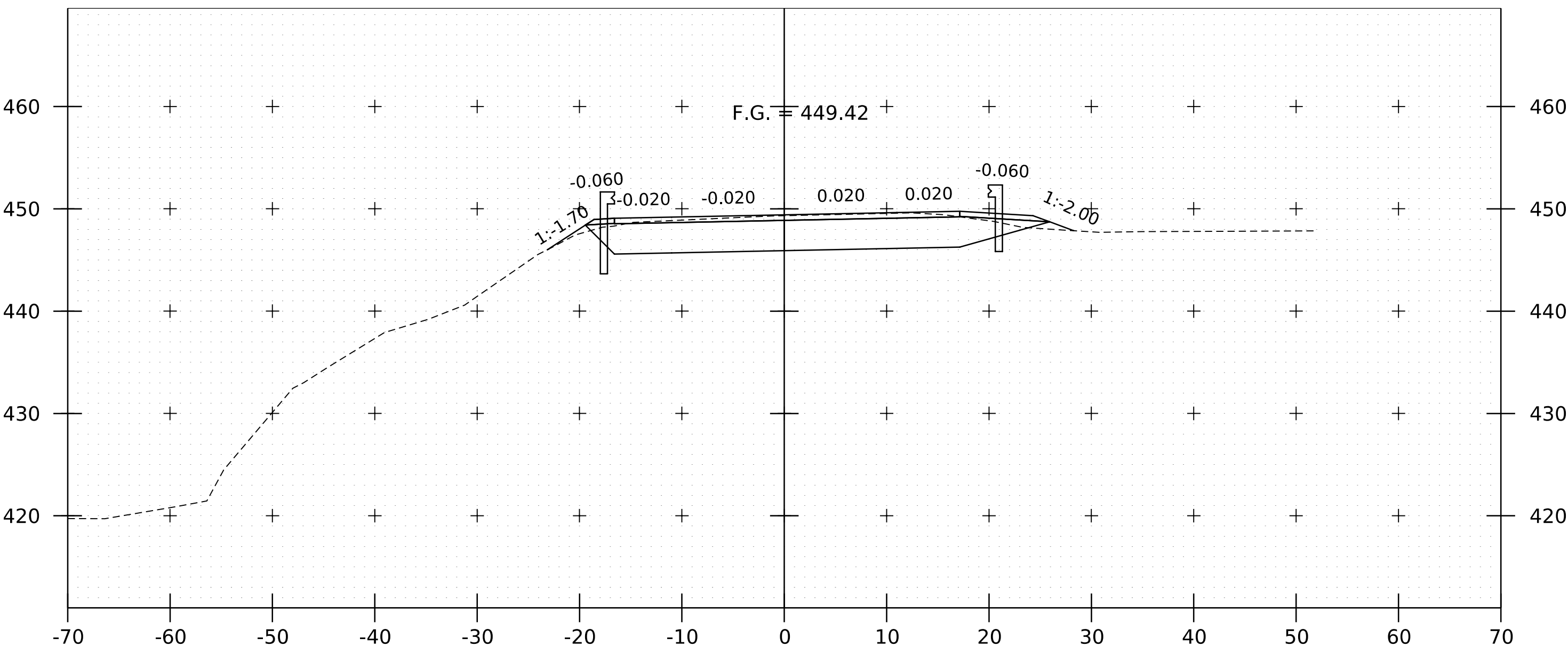
100+75



101+25



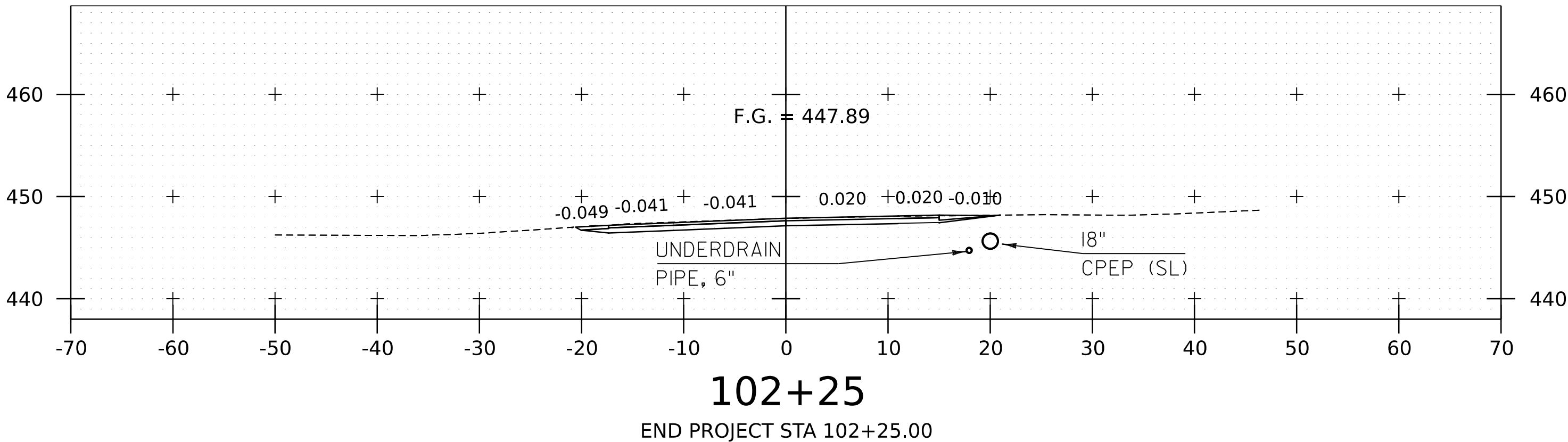
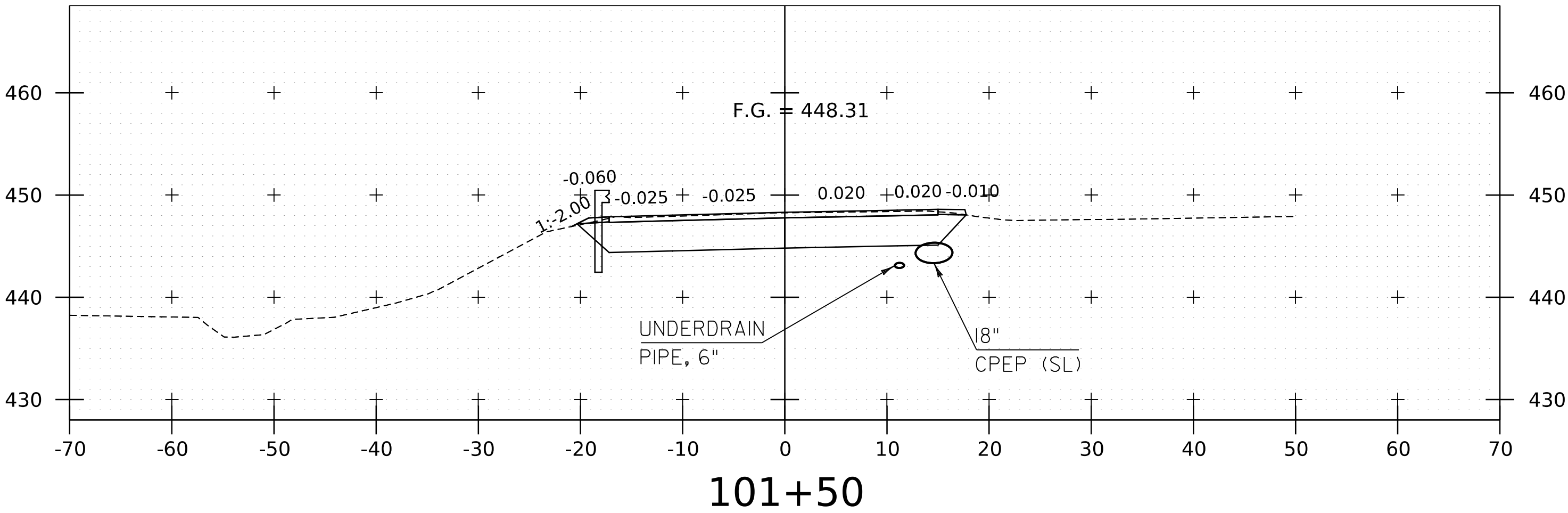
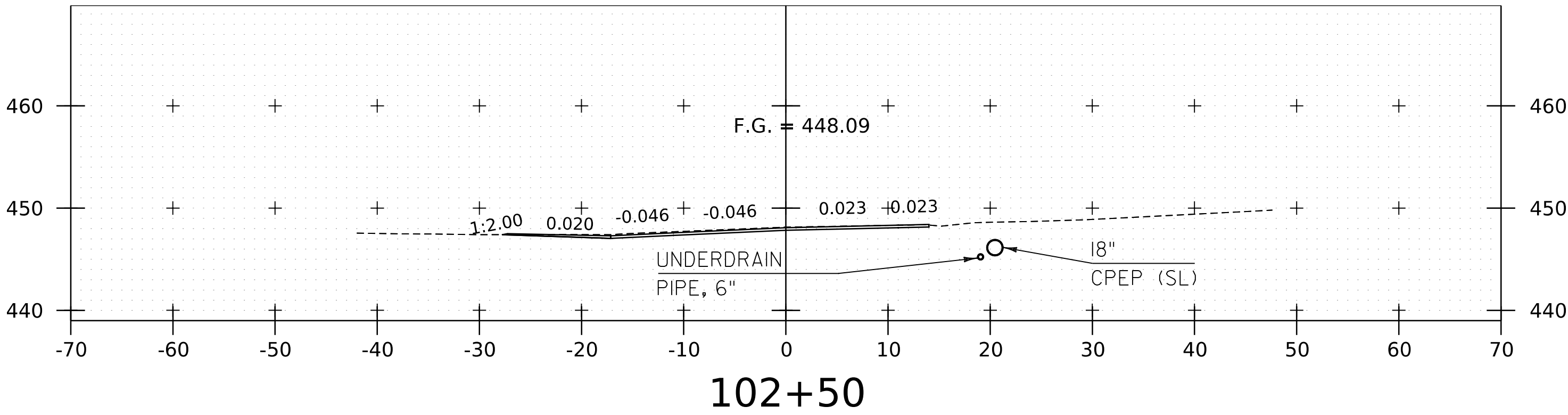
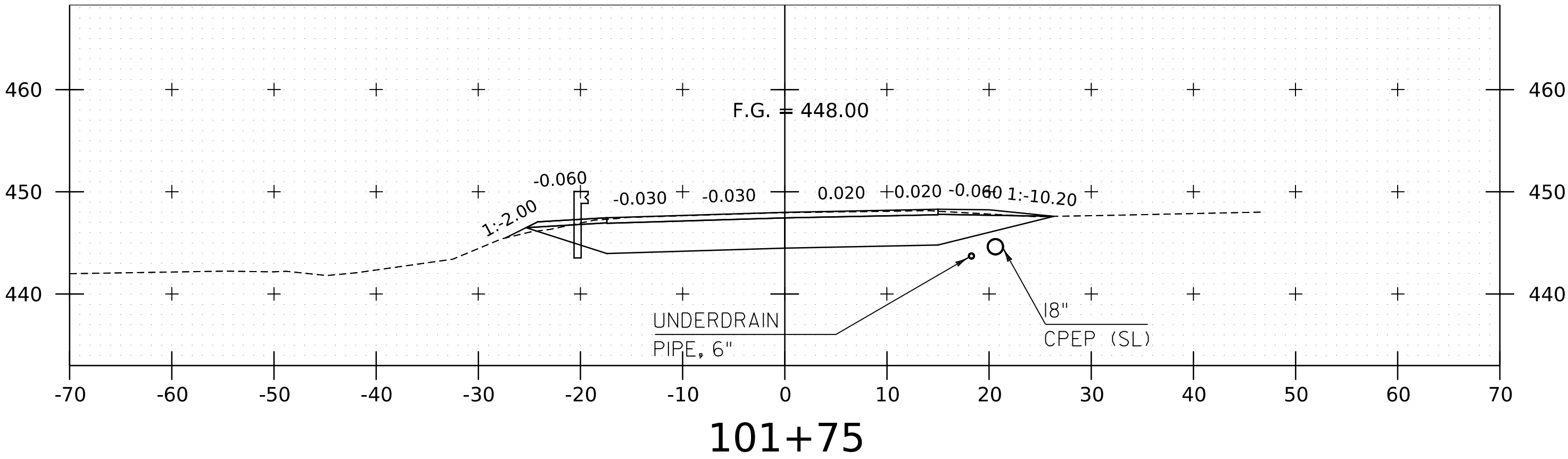
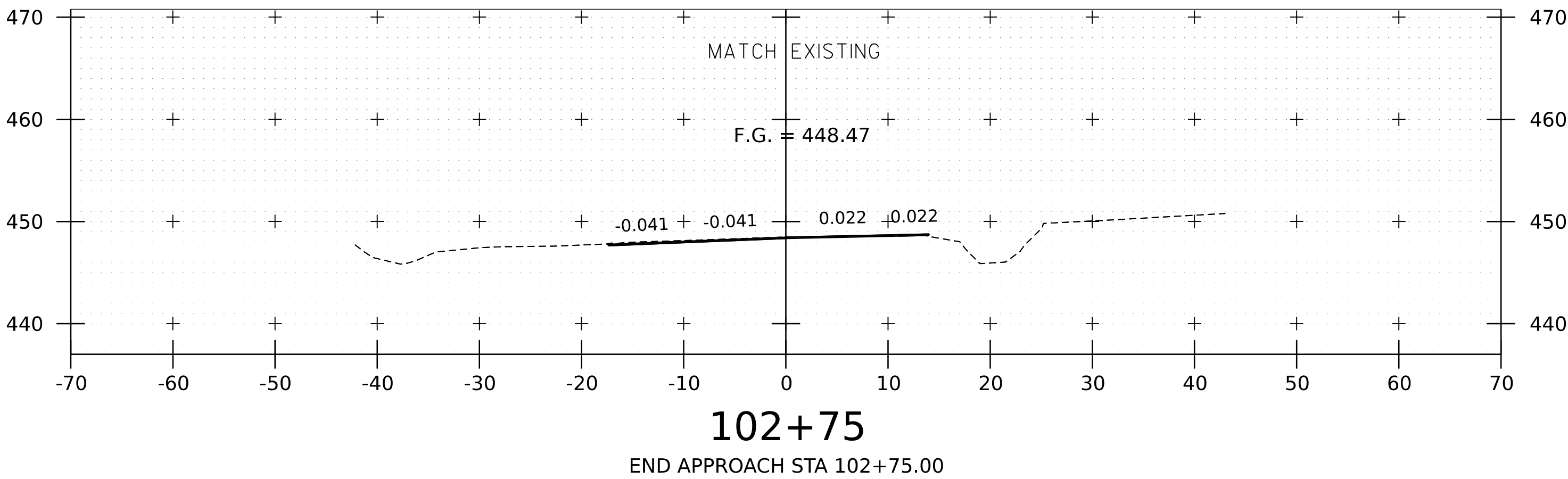
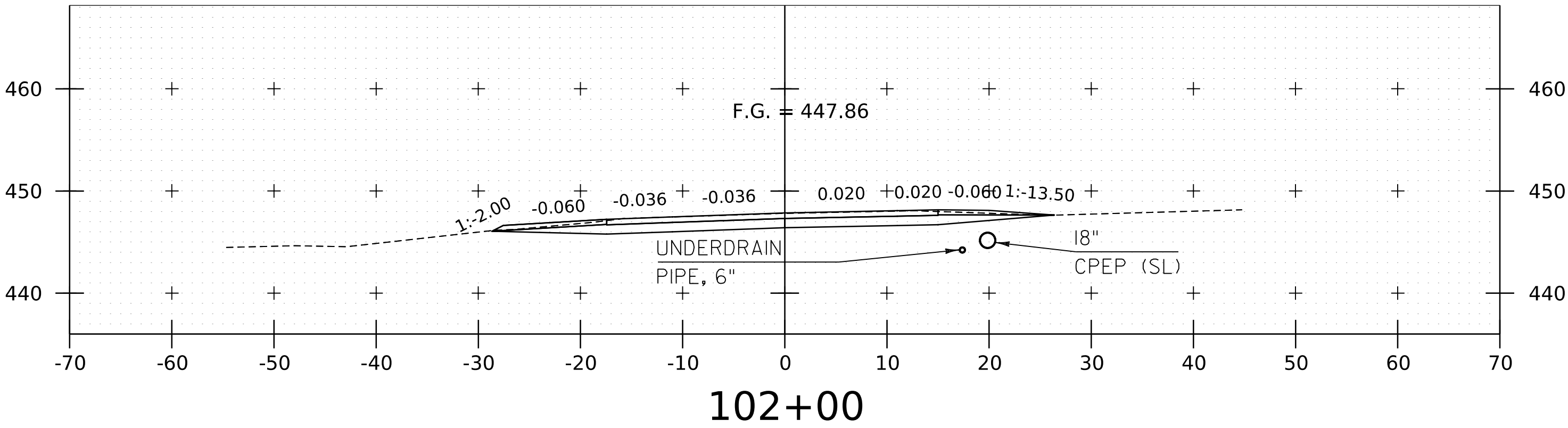
100+50



101+00

PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK (5I)	
FILE NAME: I9b2I8VT36_XS	PLOT DATE: I5-MAY-2023
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
ROADWAY CROSS SECTIONS 3	SHEET 34 OF 37





PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK (5I)

FILE NAME: I9b2I8VT36_XS.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: J. PAQUETTE  
ROADWAY CROSS SECTIONS 4

PLOT DATE: I5-MAY-2023  
DRAWN BY: J. PAQUETTE  
CHECKED BY: D. PETERSON  
SHEET 35 OF 37



4 INCH WHITE LINE, WATERBORNE PAINT

98+00.00 - 102+75.00 LT & RT

4 INCH YELLOW LINE, WATERBORNE PAINT

98+00.00 - 102+75+00.00

PAVED APRONS

98+00.00 - 98+80.00 RT  
102+23.28 - 102+75.00 RT

REMOVE MAILBOX

100+92.00 RT

REMOVE AND RESET SIGNS

99+16.83 RT  
99+24.09 RT  
99+45.63 LT  
100+54.03 LT

TYPE II STONE FILL

99+27.77 - 99+77.76 LT  
99+30.00 - 99+42.12 RT

**BEGIN R.O.W. PROJECT  
FAIRFIELD STP DECK(51)  
STA. 100+39±, 38.06' LT**

REMOVE AND REPLACE DI

101+54.74 RT  
102+08.00 RT

TYPE III STONE FILL

100+55.15 LT - 100+86.96 LT

UNDERDRAIN PIPE, 6"

101+19.28 LT - 101+54.10 RT

UNDERDRAIN CARRIER PIPE, 6"

101+55.75 - 102+55.78 RT

18" CPEP DIAMETER (SL)

101+55.75 - 102+06.05 RT  
102+09.94 - 102+55.78 RT

SAVE TREE

101+98.09 RT

ADJUST ELEVATION OF VALVE BOX

100 + 88.02 RT  
100 + 88.64 RT  
100 + 91.62 RT

24" DIAMETER CPEP (SL)

101+19.28 LT - 101+54.10 RT

X1: EXISTING I&M(P) RETAINING WALL - HOWRIGAN AND STATE OF VERMONT  
(BK. 50, PG. 88)

X2: EXISTING CH(P) RIVER'S EDGE - HOWRIGAN AND STATE OF VERMONT  
(BK. 50, PG. 88)

EXISTING R.O.W.		
A-B	N68°7'26"E	L=61.21'
B-C	R=150.00 CB=N77°59'59"E	L=51.10' CL=50.84'
C-D	N87°45'22"E	L=170.80'
D-E	R=548.95 CB=N64°01'25"E	L=178.12' CL=177.34'
E-F	S29°17'36"E	L=49.75'
F-G	R=598.45 CB=S65°54'08"W	L=223.05' CL=221.77'
G-H	S17°7'59"W	L=40.65'
H-I	S77°14'18"W	L=100.00'
I-J	N78°58'56"W	L=87.42'
J-K	S77°13'17"W	L=48.31'
K-A	N12°45'11"W	L=72.91'

N/F  
**CHESTER A. ARTHUR  
ASSOCIATES**

N/F  
**HOWRIGAN,  
RICHARD J. & KATHLEEN A.**

**END R.O.W. PROJECT  
FAIRFIELD STP DECK(51)  
STA. 102+65.92, 25.16' LT**

**SAYLOR, CHRISTOPHER**

N/F  
**OHLIGER,  
RICHARD & MARTHA**

**OHLIGER,  
RICHARD; OHLIGER, JOHN**

N/F  
**JCS HOLDINGS, LLC**

EXISTING BRIDGE INFORMATION  
SINGLE SPAN ROLLED BEAM BRIDGE  
CONCRETE CAST-IN-PLACE DECK  
BUILT 1955  
89' SPAN LENGTH

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  
STATE OF VERMONT'S ACQUISITION OF LAND  
AND RIGHTS FOR THIS PROJECT.

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

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

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(51)

FILE NAME: r19b218lay.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: J. PAUQUETTE  
R.O.W. LAYOUT SHEET

PLOT DATE: 15-MAY-2023  
DRAWN BY: E. WILDER  
CHECKED BY: A. PROULX  
SHEET 36 OF 37



# RIGHT - OF - WAY DETAIL SHEET

[illegible][illegible]

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(51)

FILE NAME: r19b218detail.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: E. WILDER  
R.O.W. DETAIL SHEET

PLOT DATE: 15-MAY-2023  
DRAWN BY: M. TROTTIER  
CHECKED BY: A. PROULX  
SHEET 37 OF 37