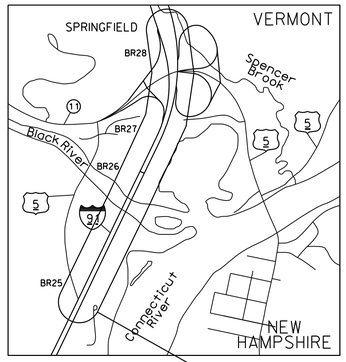
LENGTH OF STRUCTURES: BRIDGE 25N = 226.67 FEET
BRIDGE 25S = 206.67 FEET
BRIDGE 26N = 311.67 FEET
BRIDGE 26S = 311.67 FEET
BRIDGE 28N = 181.75 FEET
BRIDGE 28S = 185.67 FEET
BRIDGE 27 N&S = REMOVAL

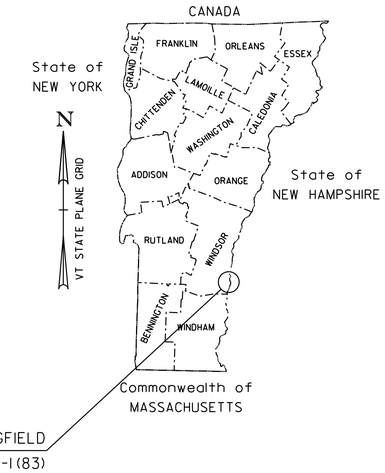
LENGTH OF CULVERT: BRIDGE 28-IN = 18.00 FEET
BRIDGE 28-IC = REMOVAL
BRIDGE 28-IG = REMOVAL

LENGTH OF ROADWAYS: BRIDGE 25N = 173.33 FEET
BRIDGE 25S = 193.33 FEET
BRIDGE 26N = 113.33 FEET
BRIDGE 26S = 113.25 FEET
BRIDGE 28N = 668.25 FEET
BRIDGE 28S = 289.33 FEET

TOTAL LENGTH OF NORTHBOUND PROJECT = 1875.00 FEET
TOTAL LENGTH OF SOUTHBOUND PROJECT = 1525.00 FEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION





PROPOSED IMPROVEMENT
BRIDGE PROJECT

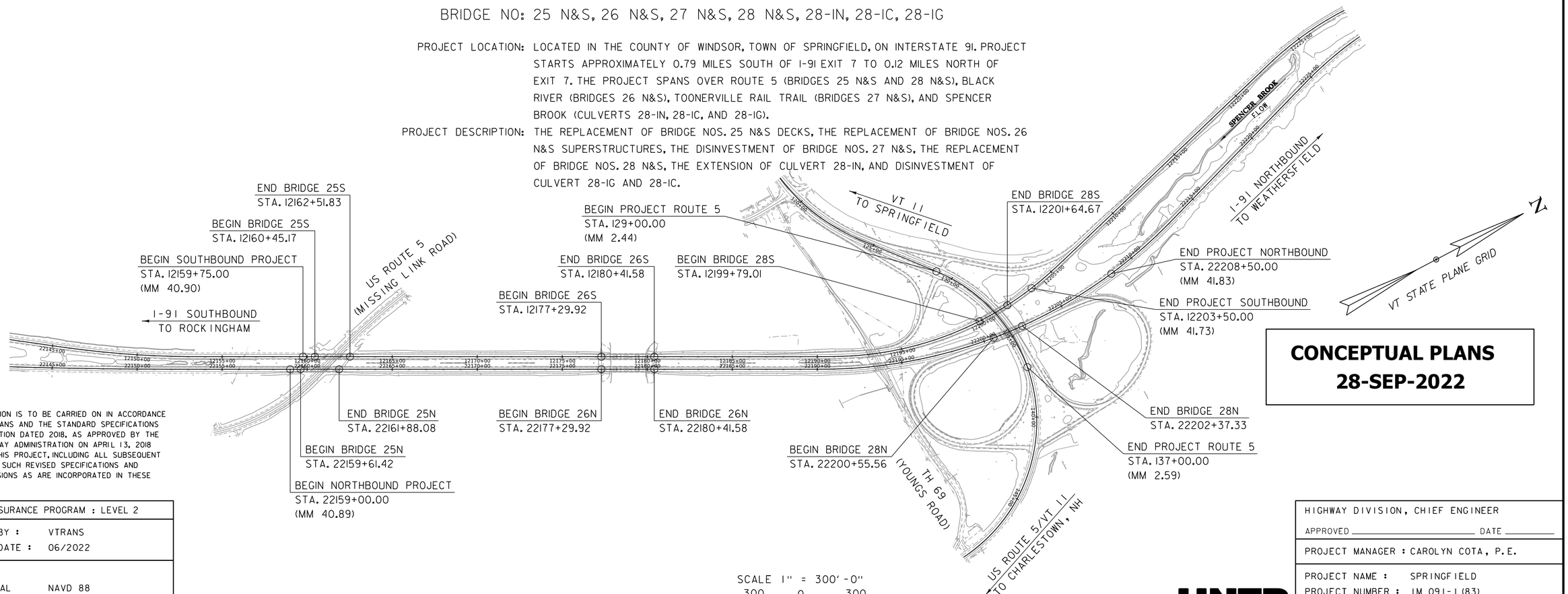
TOWN OF SPRINGFIELD
COUNTY OF WINDSOR

ROUTE NO: INTERSTATE 91 (PRINCIPAL ARTERIAL) AND ROUTE 5 (MAJOR COLLECTOR / MINOR ARTERIAL)

BRIDGE NO: 25 N&S, 26 N&S, 27 N&S, 28 N&S, 28-IN, 28-IC, 28-IG

PROJECT LOCATION: LOCATED IN THE COUNTY OF WINDSOR, TOWN OF SPRINGFIELD, ON INTERSTATE 91. PROJECT STARTS APPROXIMATELY 0.79 MILES SOUTH OF I-91 EXIT 7 TO 0.12 MILES NORTH OF EXIT 7. THE PROJECT SPANS OVER ROUTE 5 (BRIDGES 25 N&S AND 28 N&S), BLACK RIVER (BRIDGES 26 N&S), TOONERVILLE RAIL TRAIL (BRIDGES 27 N&S), AND SPENCER BROOK (CULVERTS 28-IN, 28-IC, AND 28-IG).

PROJECT DESCRIPTION: THE REPLACEMENT OF BRIDGE NOS. 25 N&S DECKS, THE REPLACEMENT OF BRIDGE NOS. 26 N&S SUPERSTRUCTURES, THE DISINVESTMENT OF BRIDGE NOS. 27 N&S, THE REPLACEMENT OF BRIDGE NOS. 28 N&S, THE EXTENSION OF CULVERT 28-IN, AND DISINVESTMENT OF CULVERT 28-IG AND 28-IC.



CONCEPTUAL PLANS
28-SEP-2022

SCALE 1" = 300'-0"
300 0 300

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 : VTRANS SURVEYED DATE : 06/2022
DATUM VERTICAL NAVD 88 HORIZONTAL NAD 83 (2011)

HNTB

HIGHWAY DIVISION, CHIEF ENGINEER
APPROVED _____ DATE _____

PROJECT MANAGER : CAROLYN COTA, P.E.

PROJECT NAME : SPRINGFIELD
PROJECT NUMBER : IM 091-1(83)

SHEET 1 OF 395 SHEETS

REVIEWER NOTES

GENERAL

1. TRAFFIC DATA IS NOT YET AVAILABLE. THEREFORE, PAVEMENT DESIGN HAS BEEN ASSUMED FOR CONCEPT PLANS AND WILL BE VERIFIED FOR FUTURE SUBMITTALS.

2. PROPOSED DRAINAGE AND STORMWATER TREATMENT ARE NOT SHOWN AND WILL BE DESIGNED AS NECESSARY BEFORE PRELIMINARY PLAN SUBMISSION. CONCEPTUAL MODIFICATIONS TO EXISTING FEATURES HAVE BEEN REVIEWED WITH RESPECT TO ADDITIONAL IMPACTS ADJACENT TO RIGHT OF WAY BOUNDARIES. VISUAL ASSESSMENT OF EXISTING DRAINAGE FEATURES MAY BE NECESSARY IF MODIFICATIONS ARE ANTICIPATED.

3. OPERATIONAL STORMWATER IS ANTICIPATED TO BE CLASSIFIED AS REDEVELOPMENT - MAJOR MAINTENANCE DUE TO THE NET REDUCTION IN IMPERVIOUS SURFACE.

4. NO RIGHT OF WAY IMPACTS ARE ANTICIPATED.

5. UTILITY RELOCATION IS ANTICIPATED FOR A BURIED UTILITY ALONG THE TOONERVILLE RAIL TRAIL AND FOR AERIAL UTILITY POLES NEAR 1-91 NORTHBOUND OFF RAMP STA. 204+75 RT.

6. ADDITIONAL RIGHT OF WAY DELINEATION AND RESOURCE IDENTIFICATION MAPPING IS NECESSARY NEAR BRIDGE 25 N&S.

7. SLOPE LIMITS SHOWN ARE CONCEPTUAL AND WILL BE REFINED FOR FUTURE SUBMISSIONS.

8. A 2'-0" FLAT BOTTOM DITCH IS ASSUMED FOR THE TYPICAL DITCH SECTION. THE DITCHES ARE TEMPLATED AND WILL BE DESIGNED BEFORE PRELIMINARY PLAN SUBMISSION.

9. COORDINATION WITH THE VTRANS PAVING GROUP IS NEEDED TO ESTABLISH LIMITS OF PAVING (MILL AND OVERLAY) WITHIN PROJECT. PAVING LIMITS SHOWN IN PLANS ARE SUBJECT TO CHANGE.

10. ADDITIONAL COORDINATION IS REQUIRED REGARDING THE CONNECTION OF THE SHARED USE PATH NEAR THE MISSING LINK ROAD INTERSECTION.

BRIDGE 25 NB&SB

11. ANTICIPATED WORK TO BE COMPLETED:
    - I. CONCRETE DECK REPLACEMENT WITH NEW BITUMINOUS PAVEMENT,
    - II. REPLACEMENT OF ALL BEARINGS,
    - III. REPLACEMENT OF DECK JOINTS,
    - IV. ABUTMENT BACKWALL AND WINGWALL MODIFICATIONS FOR NEW RAILINGS AND JOINTS.
    - V. SUBSTRUCTURE PATCHING.

12. THE EXISTING DECK IS 7.5 INCHES THICK, WITH A 2.5-INCH CONCRETE WEARING SURFACE. THE PROPOSED DECK IS EXPECTED TO BE AN 8.5-INCH DECK THICKNESS AND 3 INCH BITUMINOUS WEARING SURFACE. THE PROPOSED DECK THICKNESS CHANGE IS ANTICIPATED TO BE ACCOMODATED WITH A MODIFICATION TO THE PROFILE. IF FURTHER ELEVATION DIFFERENCE IS REQUIRED, A 9-INCH BARE DECK MAY BE USED TO AVOID ADDITIONAL RAISE SINCE THE PROFILE GRADE IS ALREADY 5%.

13. NO WORK IS ANTICIPATED ALONG ROUTE 5 BENEATH BRIDGE 25 NB&SB EXCEPT FOR TEMPORARY REMOVAL AND REPLACEMENT OF GUARDRAIL FOR ACCESS TO PIERS.

BRIDGE 26 NB&SB

14. ANTICIPATED WORK TO BE COMPLETED:
    - I. SUPERSTRUCTURE REPLACEMENT WITH NEW STEEL PLATE GIRDERS, CONCRETE DECK AND BITUMINOUS PAVEMENT,
    - II. REPLACEMENT OF ALL BEARINGS,
    - III. REPLACEMENT OF DECK JOINTS,
    - IV. ABUTMENT BACKWALL AND WINGWALL MODIFICATIONS FOR NEW RAILINGS AND JOINTS.
    - V. SUBSTRUCTURE PATCHING.

15. THE EMBANKMENTS BENEATH THE BRIDGE ARE ARMORED PRIMARILY WITH LARGE STONES WITH SIGNIFICANT VOIDS, OBSERVABLE SETTLEMENT, AND AN EXPOSED PILE FOUNDATION AT ONE ABUTMENT. ADDITIONAL BORROW AND STONE FILL WILL BE PLACED TO REPAIR THE EMBANKMENTS; HOWEVER, THE DETAILS ARE NOT YET KNOWN AND WILL BE COORDINATED WITH THE VTRANS HYDRAULIC GROUP DURING PRELIMINARY DESIGN.

BRIDGE 27 NB&SB

16. ANTICIPATED WORK TO BE COMPLETED:
    - I. REMOVAL OF THE SUPERSTRUCTURE AND ABUTMENTS DOWN TO THE FOOTING,
    - II. REMOVE PAVEMENT OF THE TOONERVILLE TRAIL AND FILL THE VOID CREATED BY THE REMOVAL OF BRIDGES,
    - III. THE BIN-WALLS, ABUTMENT FOOTINGS AND PILES TO BE BURIED IN PLACE.

BRIDGE 28 NB&SB

17. ANTICIPATED WORK TO BE COMPLETED:
    - I. REPLACE BOTH STRUCTURES WITH TWO-SPAN CHORDED STEEL GIRDER BRIDGES WITH CONCRETE DECK.

18. ABUTMENTS ARE EXPECTED TO BE INTEGRAL ABUTMENTS. THE PIERS WILL EITHER BE WALL PIERS OR MULTI-COLUMN PIERS WITH A CRASH BARRIER; THE FINAL CONFIGURATION WILL BE DETERMINED AT A LATER SUBMITTAL.

19. LIGHTING AT THE END OF THE RAMPS FOR PEDESTRIAN CROSSINGS IS ANTICIPATED AND WILL BE LOCATED DURING PRELIMINARY DESIGN.

SPENCER BROOK

20. SPENCER BROOK RE-ALIGNMENT IS CONCEPTUAL. FINAL LAYOUT AND PERMITTING WILL BE COMPLETED AT FUTURE PHASES.

21. CULVERT 28-1N, LOCATED BENEATH I-91 NORTHBOUND NEAR STA 22211+00 RT, WILL BE PERMANENTLY EXTENDED TO THE EAST APPROXIMATELY 18'-0". CONCEPTUAL WINGWALLS ARE PROVIDED ON THE PLANS.

22. CULVERT 28-1G, LOCATED UNDER THE I-91 EXIT 7 NORTHBOUND OFF-RAMP ADJACENT TO ROUTE 5, WILL BE REMOVED IN ITS ENTIRETY, AND THE STREAM WILL BECOME AN OPEN CHANNEL WHERE THE CULVERT WAS LOCATED.

23. CULVERT 28-1C, LOCATED UNDER I-91 EXIT 7 NORTHBOUND OFF-RAMP, WILL EITHER BE REMOVED IN ITS ENTIRETY OR CAPPED AND LEFT IN PLACE WHILE RELOCATING THE STREAM. FINAL DETAILS WILL BE COMPLETED DURING FUTURE PHASES.

MAINTENANCE OF TRAFFIC

24. TWO-WAY TRAFFIC WILL BE MAINTAINED ALONG I-91 USING CROSSOVERS AND REDUCING EACH BARREL TO ONE LANE.

25. TWO-WAY TRAFFIC WILL BE MAINTAINED ALONG ROUTE 5, BOTH CHARLESTOWN ROAD AND MISSING LINK ROAD. TEMPORARY SHOULDER CLOSURES MAY BE REQUIRED.

26. MULTI-MODAL TRAFFIC ALONG THE TOONERVILLE RAIL TRAIL WILL NOT BE MAINTAINED FOR THE MAJORITY OF CONSTRUCTION. EXACT DURATION OF CLOSURE WILL BE DETERMINED DURING FUTURE PHASES.

27. I-91 NB ON AND OFF RAMPS WILL REQUIRE SHORT TERM CLOSURES WHEN TRAFFIC IS CHANGED TO THE NEW RAMPS.

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: T. POULIN
REVIEWER NOTES

PLOT DATE: 28-SEP-2022
DRAWN BY: E. BEAUSOLEIL
CHECKED BY: C. HELMICK
SHEET 2 OF 395

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version
LRFD

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STANDARDS LIST

FINAL HYDRAULIC REPORT

TRAFFIC MAINTENANCE NOTES

1. TWO-WAY TRAFFIC WILL BE MAINTAINED ALONG I-91 USING CROSS-OVERS AND REDUCING EACH BARREL TO ONE LANE.
2. TWO-WAY TRAFFIC WILL BE MAINTAINED ALONG ROUTE 5, BOTH CHARLESTOWN ROAD AND MISSING LINK ROAD. TEMPORARY SHOULDER CLOSERS MAY BE REQUIRED.

DESIGN VALUES

1. DESIGN LIVE LOAD		HL-93
2. FUTURE PAVEMENT	d_p:	3.0 INCH
3. DESIGN SPAN	L:	
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	---
5. PRESTRESSING STRAND	f_y:	---
6. PRESTRESSED CONCRETE STRENGTH	f'_c:	---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	---
8. PERFORMANCE BASED CONCRETE, CLASS PCD	f'_c:	---
9. PERFORMANCE BASED CONCRETE, CLASS PCS	f'_c:	---
10. CONCRETE HIGH PERFORMANCE, CLASS SCC	f'_c:	---
11. CONCRETE, CLASS C	f'_c:	---
12. REINFORCING STEEL	f_y:	60 KSI
13. STRUCTURAL STEEL AASHTO M270 (WEATHERING)	f_y:	50 KSI
14. NOMINAL BEARING RESISTANCE OF SOIL	q_n:	---
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
16. NOMINAL BEARING RESISTANCE OF ROCK	q_n:	---
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	---
18. PILE RESISTANCE FACTOR	ϕ:	---
19. LATERAL PILE DEFLECTION	Δ:	---
20. BASIC WIND SPEED	V_{3s}:	---
21. MINIMUM GROUND SNOW LOAD	p_g:	---
22. SEISMIC DATA	PGA: --- S_s:	---
	S_1:	---
23.		
24.		---
25.		---
26.		---

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							
POSTING							
OPERATING							
COMMENTS:							

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2022	0	0	0	0	0
2042	0	0	0	0	0

20 year ESAL for flexible pavement from 2022 to 2042 : 0

40 year ESAL for flexible pavement from 2022 to 2062 : 0

Design Speed : 0 mph

AS BUILT "REBAR" DETAIL

LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

PROJECT NAME: **SPRINGFIELD**

PROJECT NUMBER: **IM 091-1(83)**

FILE NAME: **z12a574PI.dgn**
PROJECT LEADER: **J. OLUND**
DESIGNED BY: **T. POULIN**
PRELIMINARY INFORMATION SHEET 1

PLOT DATE: 9/26/2022
DRAWN BY: **T. POULIN**
CHECKED BY: **J. OLUND**
SHEET 3 OF 395

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY 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. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

WATER SYSTEM SYMBOLS

POINT	DESCRIPTION
	BEND
	TEE
	CAP/PLUG
	REDUCER

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 SYMBOLOGY

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 SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- 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
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

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/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 SYMBOLOGY

EPSC MEASURES

- FILTER CURTAIN
- SILT FENCE
- SILT FENCE WOVEN WIRE
- CHECK DAM
- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

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
- (H) HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

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

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574legend.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: T. POULIN
SYMBOLOGY LEGEND SHEET

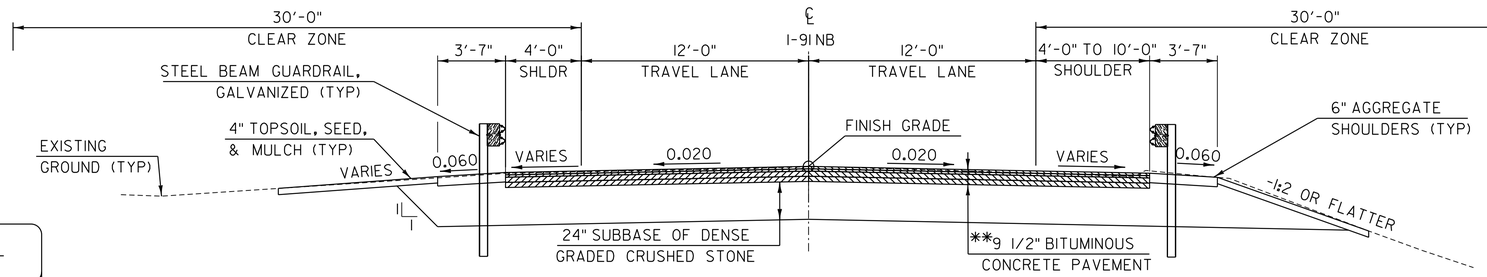
PLOT DATE: 28-SEP-2022
DRAWN BY: T. POULIN
CHECKED BY: J. OLUND
SHEET 4 OF 395

* 1½" TYPE IVS OVER
1½" TYPE IVS OVER (AS CALLED FOR)
½" MIN. TYPE IVS LEVELING

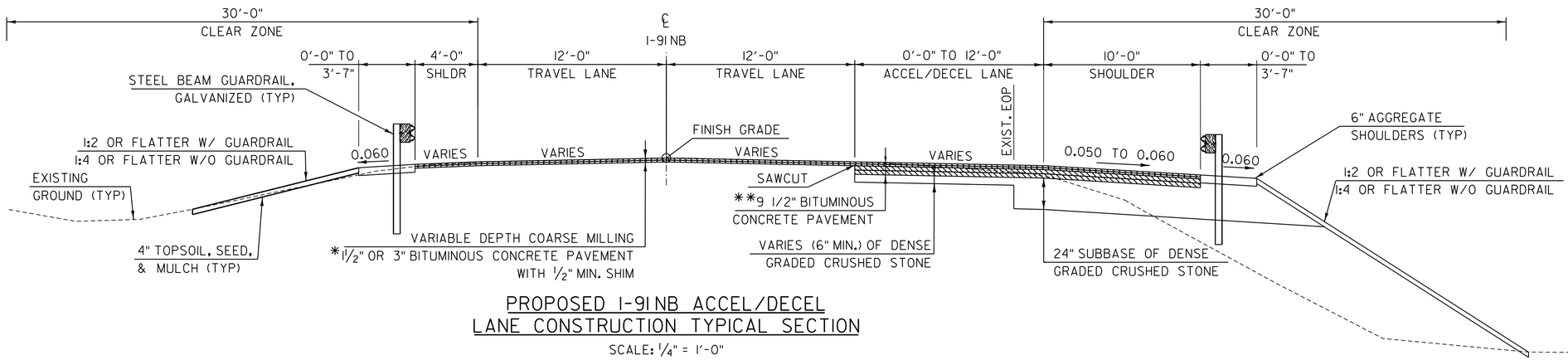
** 1½" TYPE IVS OVER
1½" TYPE IVS OVER
3¼" TYPE IIS OVER
3¼" TYPE IIS

MATERIAL TOLERANCES
(IF USED ON PROJECT)

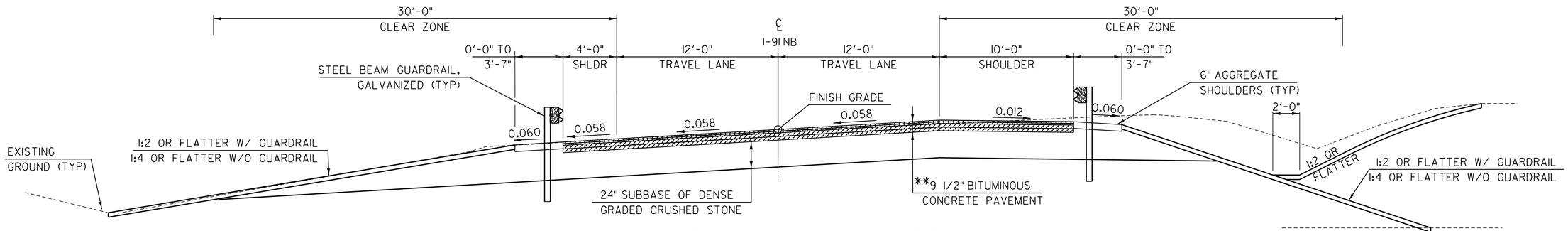
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¼"
- AGGREGATE SURFACE COURSE	+/- ½"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"



PROPOSED I-91 NB FULL DEPTH CONSTRUCTION
AT BRIDGE 25 AND 26 TYPICAL SECTION
SCALE: ¼" = 1'-0"



PROPOSED I-91 NB ACCEL/DECEL
LANE CONSTRUCTION TYPICAL SECTION
SCALE: ¼" = 1'-0"



PROPOSED I-91 NB FULL DEPTH CONSTRUCTION
AT BRIDGE 27 AND 28 TYPICAL SECTION
SCALE: ¼" = 1'-0"

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574typ.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TYPICAL SECTIONS 1

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: J. OLUND
SHEET 5 OF 395

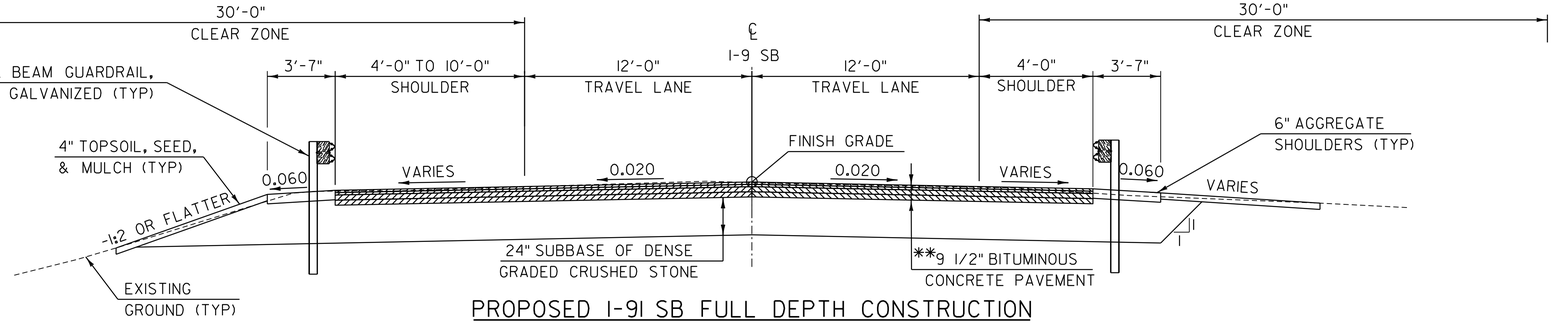
HNTB

* 1½" TYPE IVS OVER
1½" TYPE IVS OVER (AS CALLED FOR)
½" MIN. TYPE IVS LEVELING

** 1½" TYPE IVS OVER
1½" TYPE IVS OVER
3¼" TYPE IIS OVER
3¼" TYPE IIS

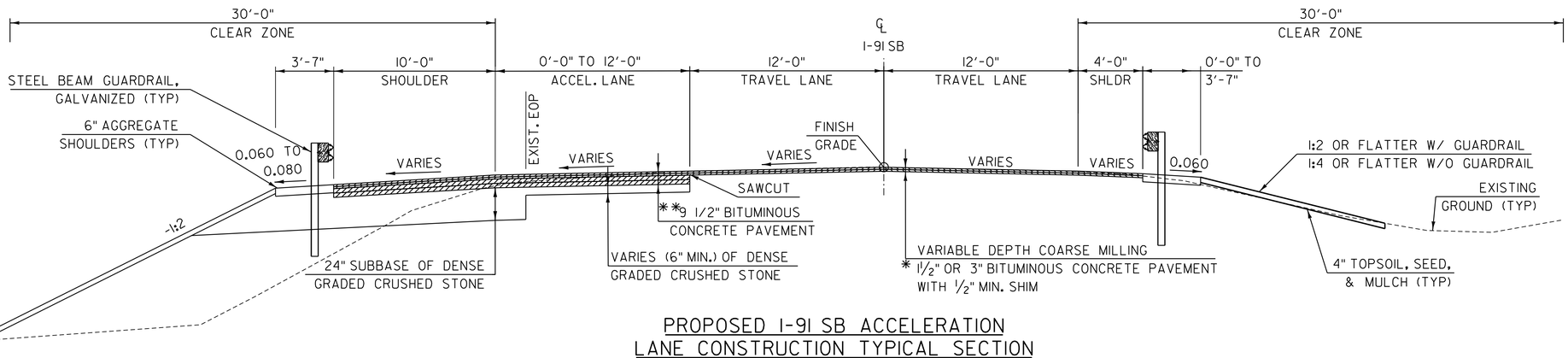
MATERIAL TOLERANCES
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¼"
- AGGREGATE SURFACE COURSE	+/- ½"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"



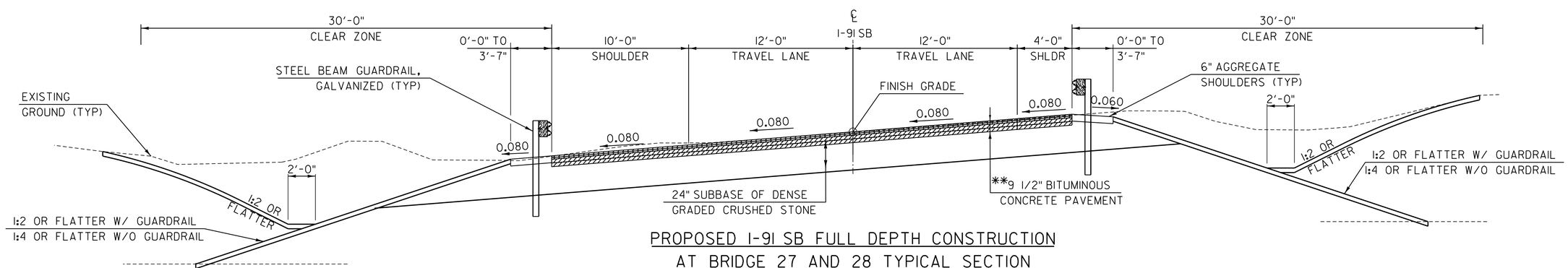
PROPOSED I-91 SB FULL DEPTH CONSTRUCTION AT BRIDGE 25 AND 26 TYPICAL SECTION

SCALE: ¼" = 1'-0"



PROPOSED I-91 SB ACCELERATION LANE CONSTRUCTION TYPICAL SECTION

SCALE: ¼" = 1'-0"



PROPOSED I-91 SB FULL DEPTH CONSTRUCTION AT BRIDGE 27 AND 28 TYPICAL SECTION

SCALE: ¼" = 1'-0"

HNTB

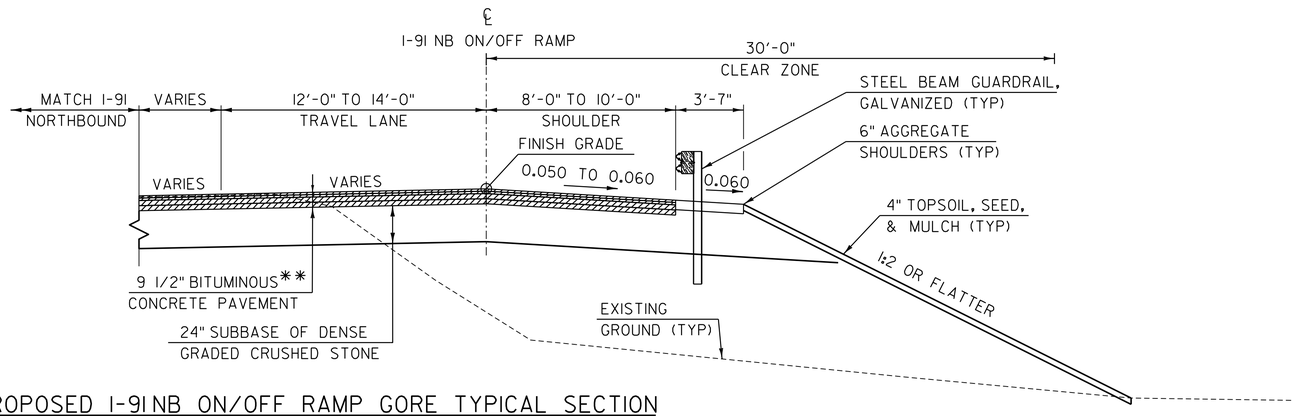
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
TYPICAL SECTIONS 2	SHEET 6 OF 395

* 1½" TYPE IVS OVER
1½" TYPE IVS OVER
3" TYPE IIS

** 1½" TYPE IVS OVER
1½" TYPE IVS OVER
3¼" TYPE IIS OVER
3¼" TYPE IIS

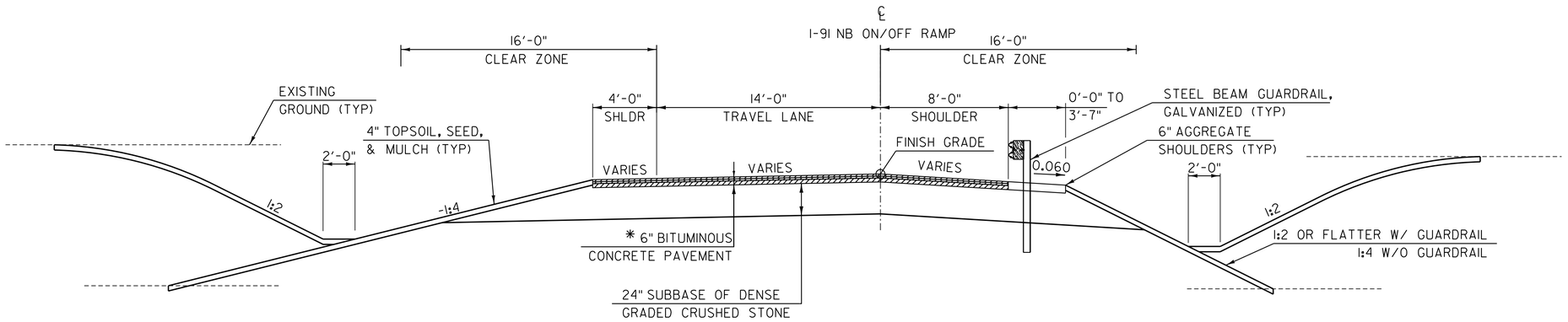
MATERIAL TOLERANCES
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¼"
- AGGREGATE SURFACE COURSE	+/- ½"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"



PROPOSED I-91 NB ON/OFF RAMP GORE TYPICAL SECTION

SCALE: ¼" = 1'-0"



PROPOSED I-91 NB ON/OFF RAMP TYPICAL SECTION

SCALE: ¼" = 1'-0"

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574typ.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
TYPICAL SECTIONS 3	SHEET 7 OF 395

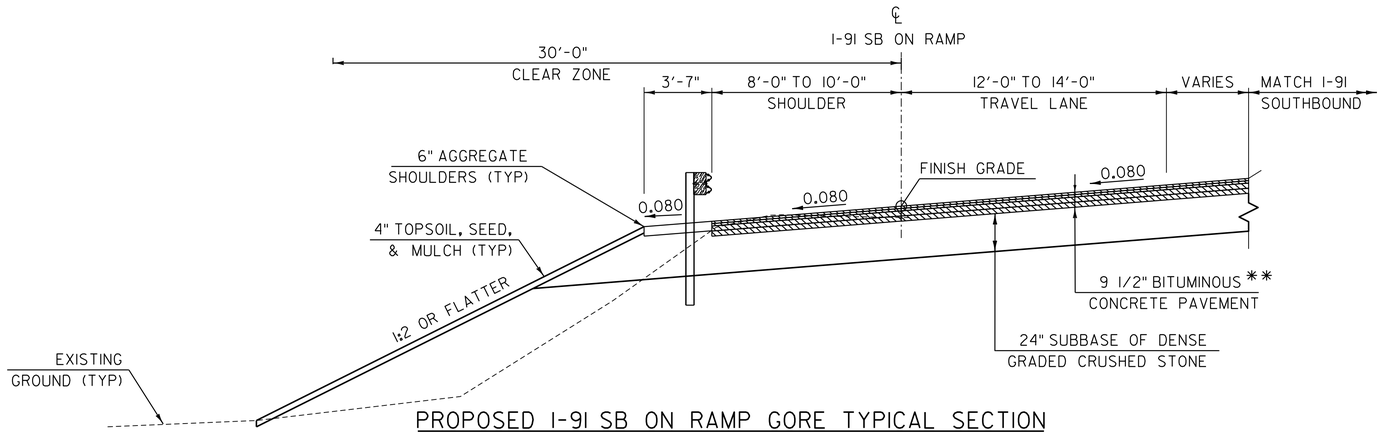
HNTB

* 1½" TYPE IVS OVER
1½" TYPE IVS OVER
3" TYPE IIS

** 1½" TYPE IVS OVER
1½" TYPE IVS OVER
3¼" TYPE IIS OVER
3¼" TYPE IIS

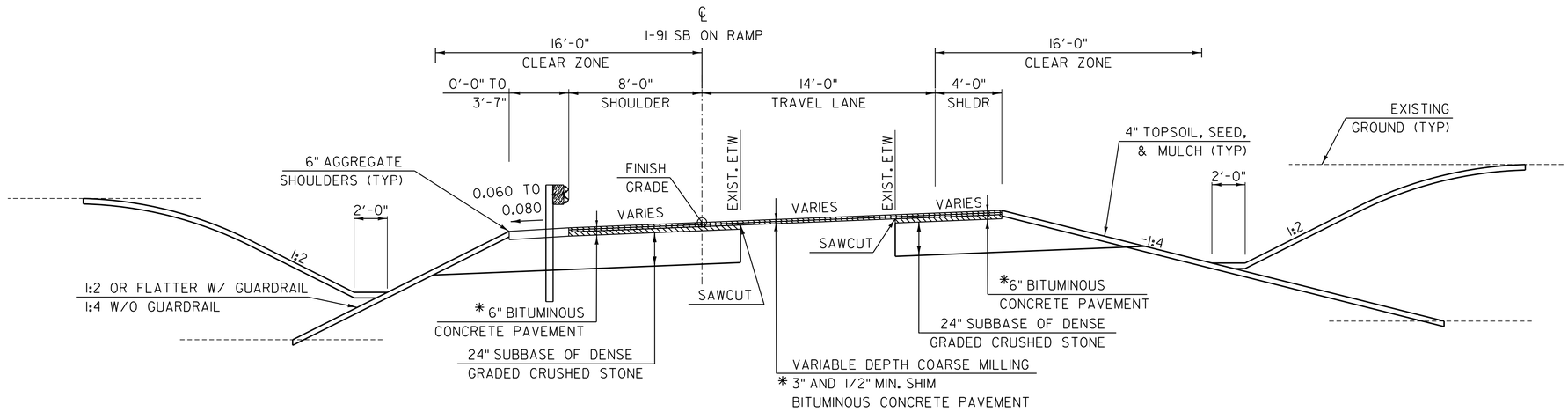
MATERIAL TOLERANCES
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¼"
- AGGREGATE SURFACE COURSE	+/- ½"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"



PROPOSED I-91 SB ON RAMP GORE TYPICAL SECTION

SCALE: ¼" = 1'-0"

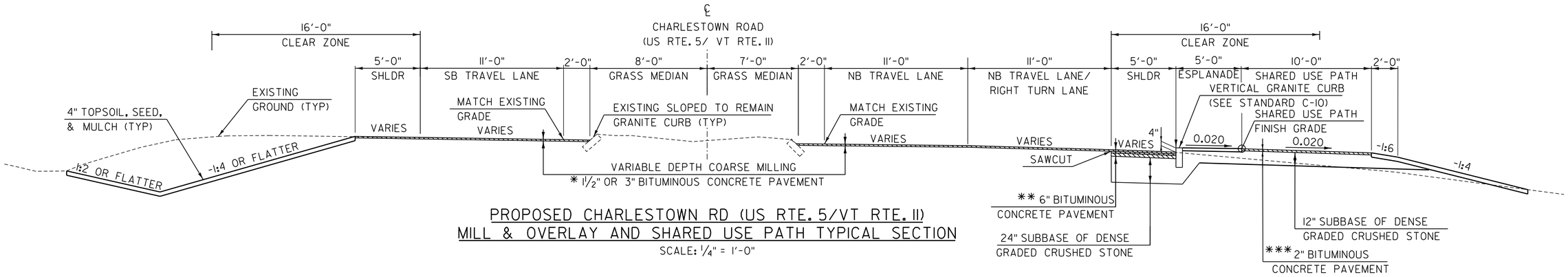


PROPOSED I-91 SB ON RAMP TYPICAL SECTION

SCALE: ¼" = 1'-0"

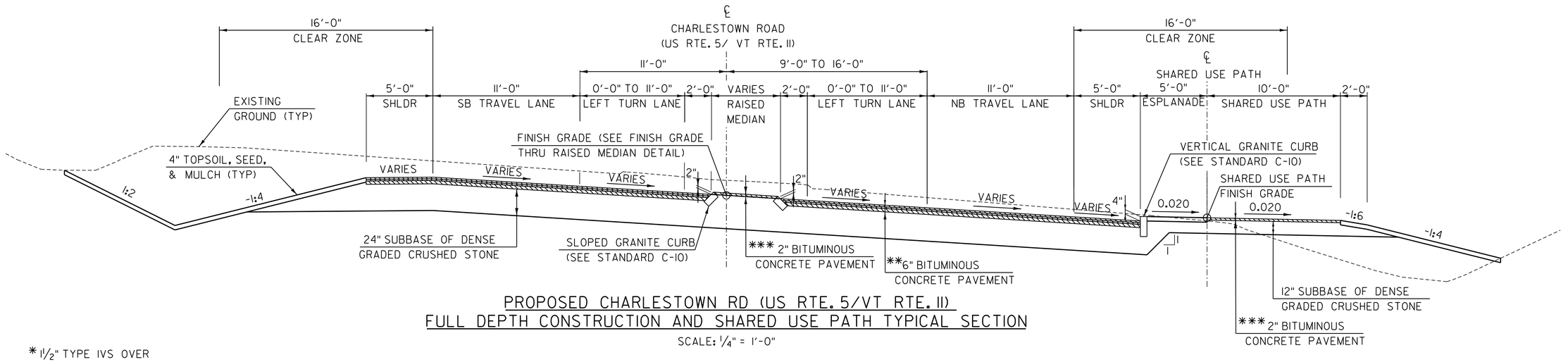
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
TYPICAL SECTIONS 4	SHEET 8 OF 395

HNTB



PROPOSED CHARLESTOWN RD (US RTE. 5/VT RTE. 11)
MILL & OVERLAY AND SHARED USE PATH TYPICAL SECTION

SCALE: 1/4" = 1'-0"



PROPOSED CHARLESTOWN RD (US RTE. 5/VT RTE. 11)
FULL DEPTH CONSTRUCTION AND SHARED USE PATH TYPICAL SECTION

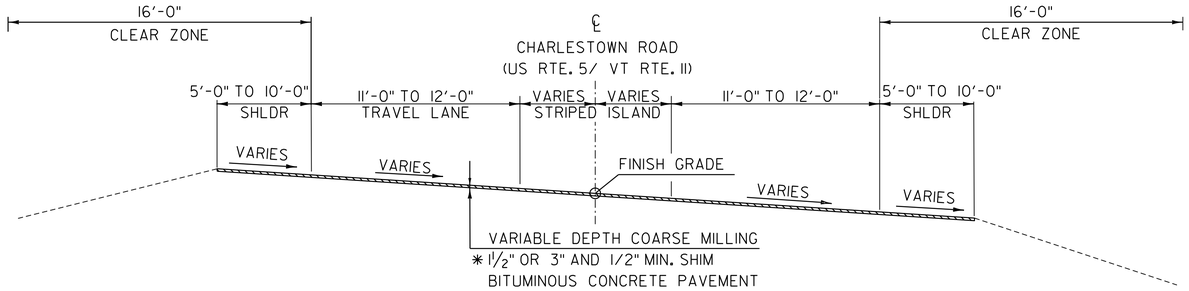
SCALE: 1/4" = 1'-0"

* 1½" TYPE IVS OVER
1½" TYPE IVS OVER (AS CALLED FOR)
½" MIN. TYPE IVS LEVELING

** 1½" TYPE IVS OVER
1½" TYPE IVS OVER
3" TYPE IIS

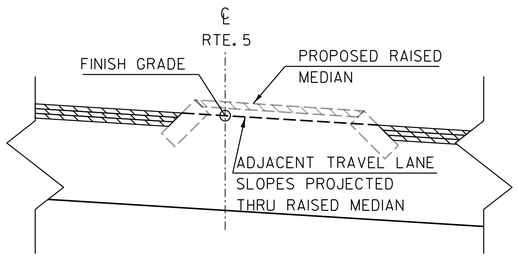
*** 2" TYPE IV

MATERIAL TOLERANCES (IF USED ON PROJECT)	
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"



PROPOSED CHARLESTOWN RD (US RTE. 5/VT RTE. 11)
MILL & OVERLAY TYPICAL SECTION

SCALE: 1/4" = 1'-0"

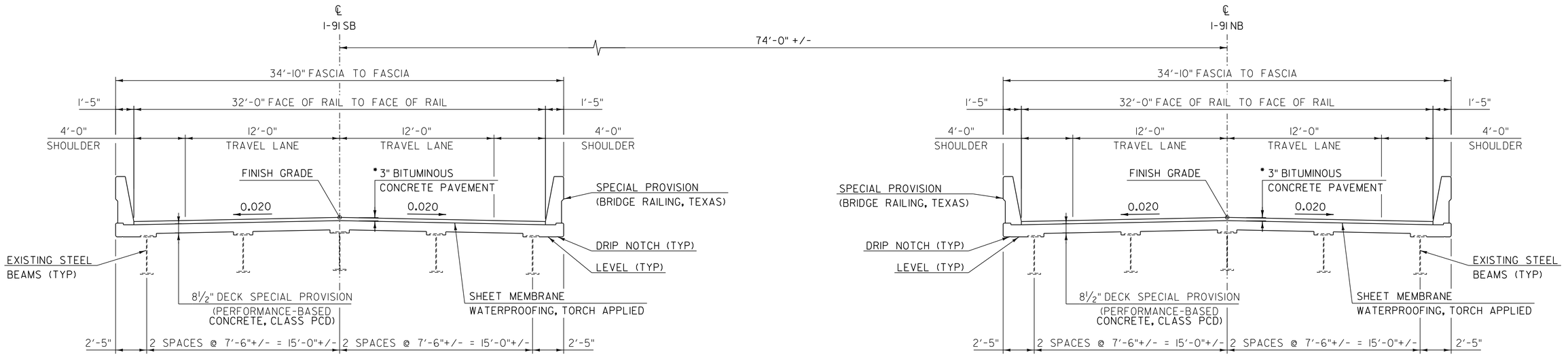


FINISH GRADE THRU RAISED MEDIAN DETAIL

NOT TO SCALE

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
TYPICAL SECTIONS 5	SHEET 9 OF 395

HNTB



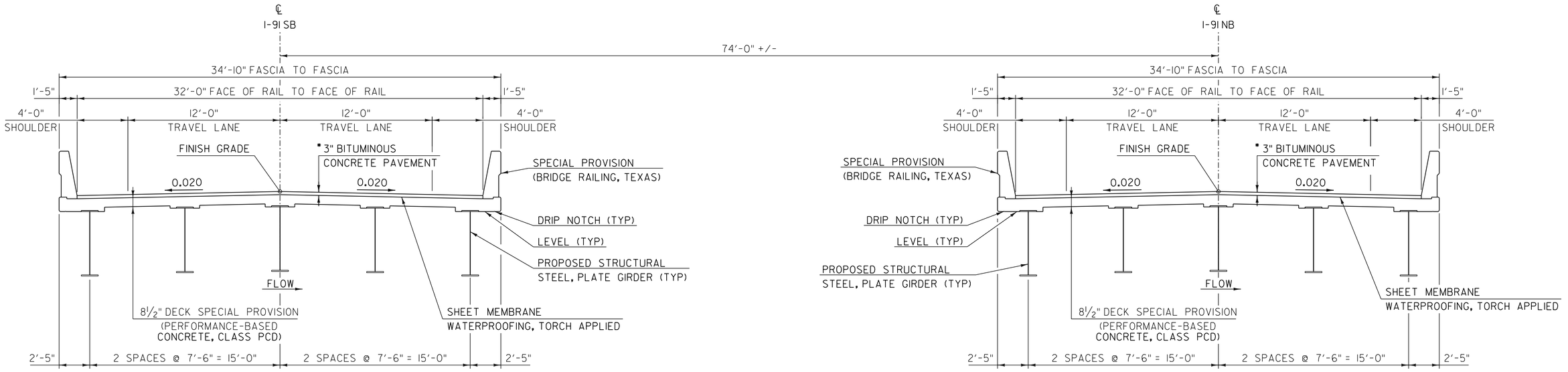
BRIDGE 25 N/S TYPICAL SECTION

SCALE ¼" = 1'-0"

* 1½" TYPE IVS OVER
1½" TYPE IVS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. BEAUSOLEIL
DESIGNED BY: J. MCCAULEY	CHECKED BY: J. OLUND
TYPICAL SECTIONS 6	SHEET 10 OF 395

HNTB



BRIDGE 26 N/S TYPICAL SECTION

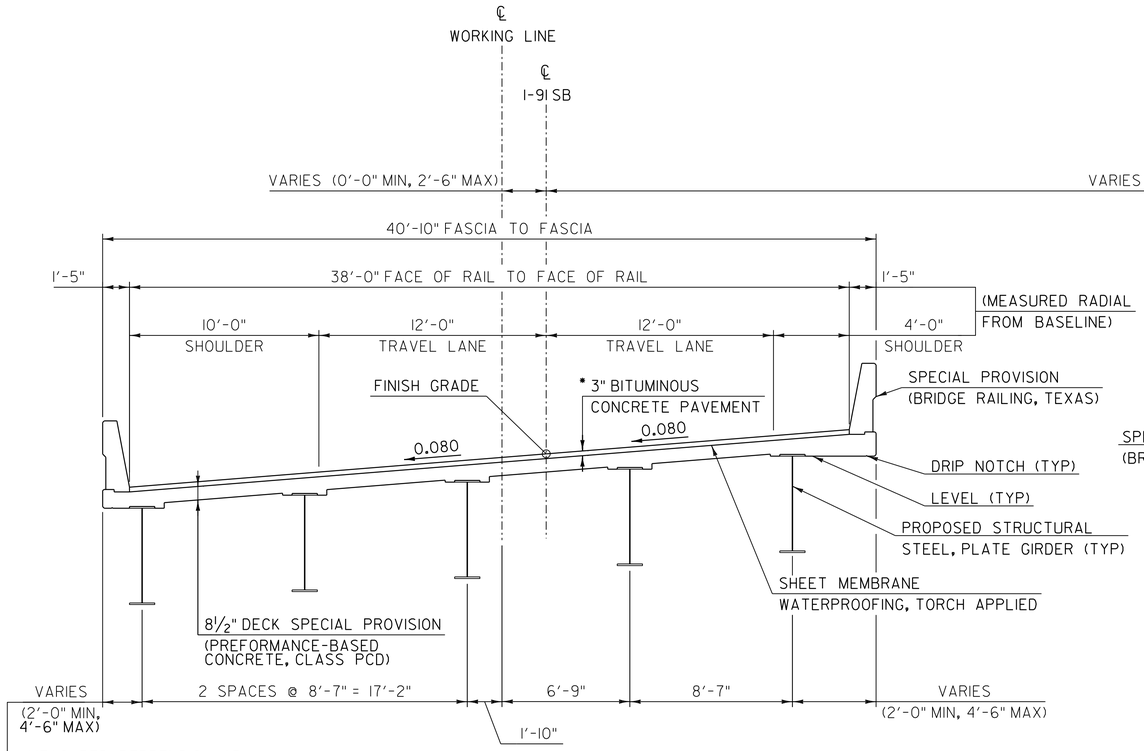
SCALE: ¼" = 1'-0"

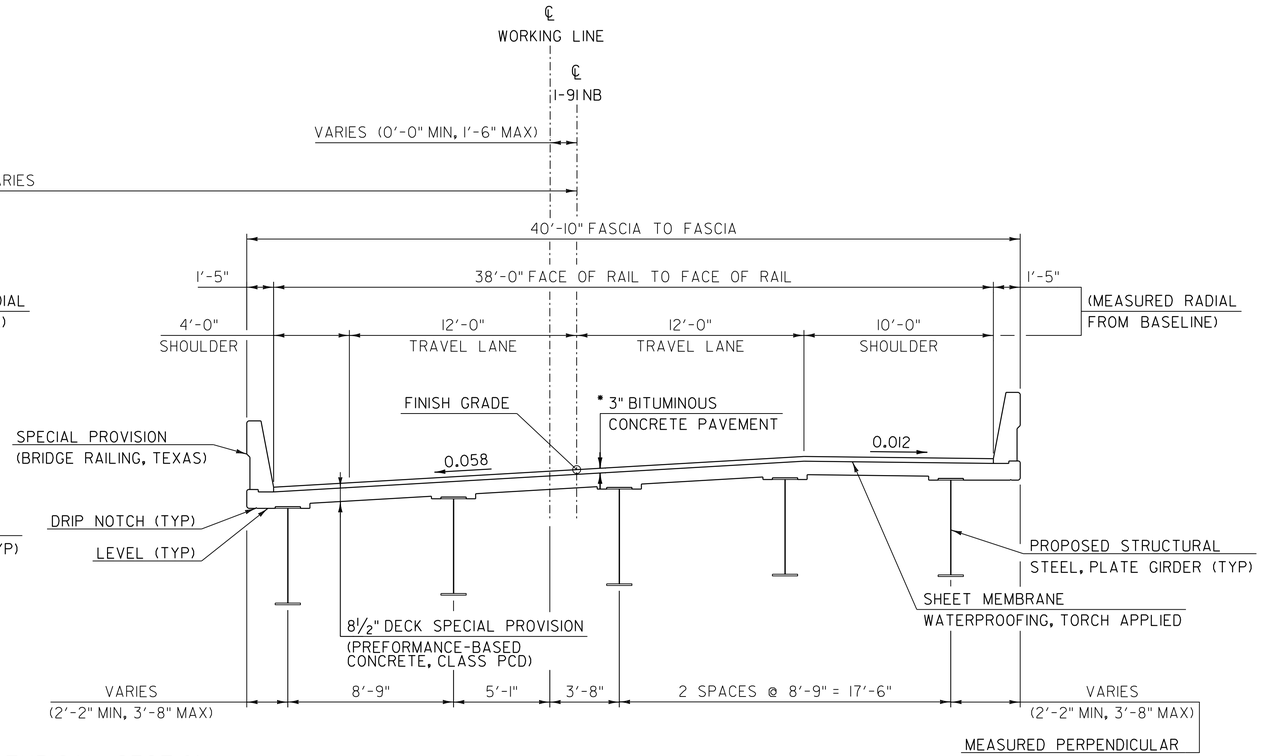
* 1½" TYPE IVS OVER
1½" TYPE IVS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574typ.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. BEAUSOLEIL
DESIGNED BY: J. MCCAULEY	CHECKED BY: J. OLUND
TYPICAL SECTIONS 7	SHEET 11 OF 395

HNTB





BRIDGE 28 N/S TYPICAL SECTION

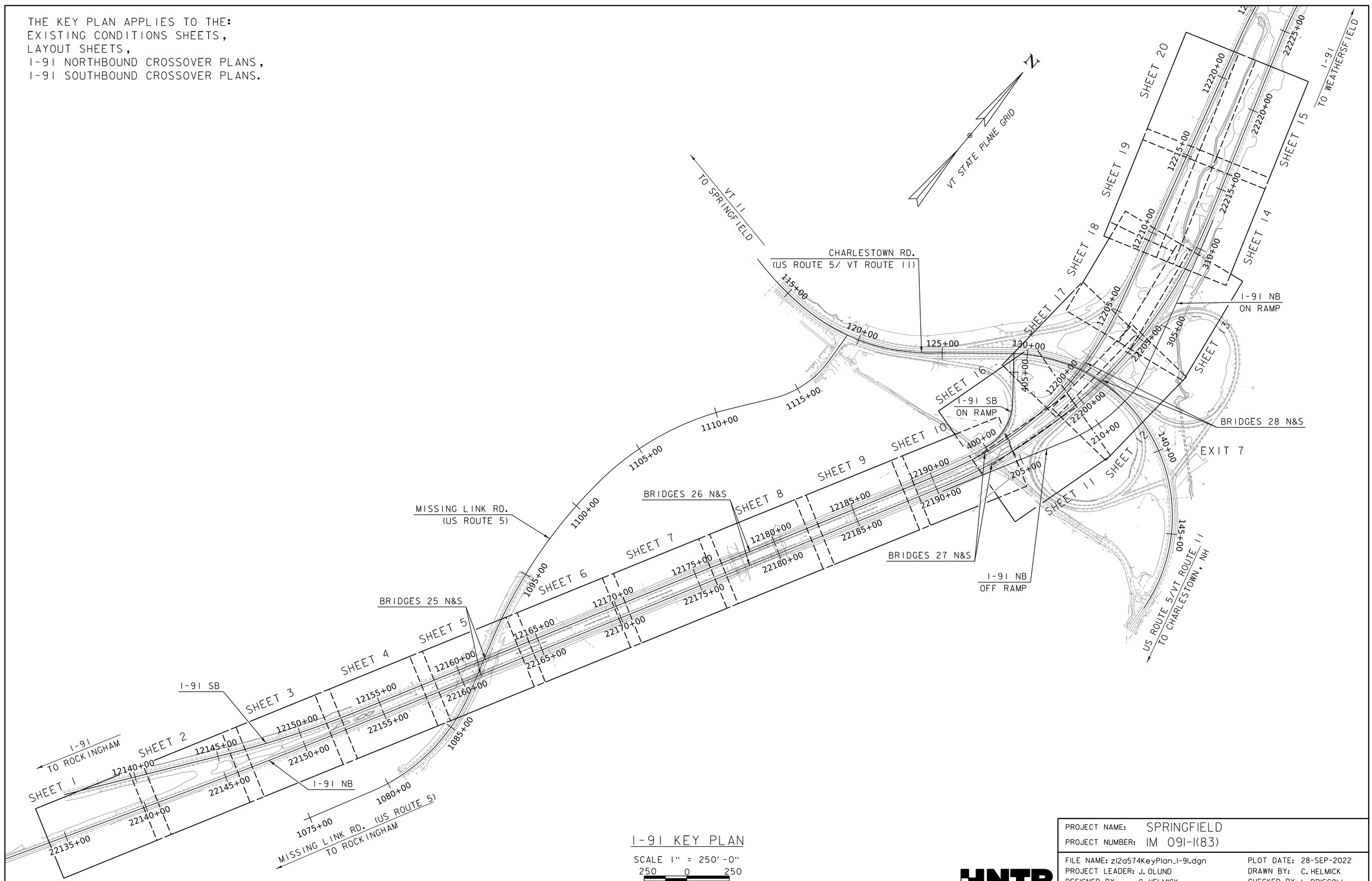
SCALE 1/4" = 1'-0"

* 1½" TYPE IVS OVER 1½" TYPE IVS

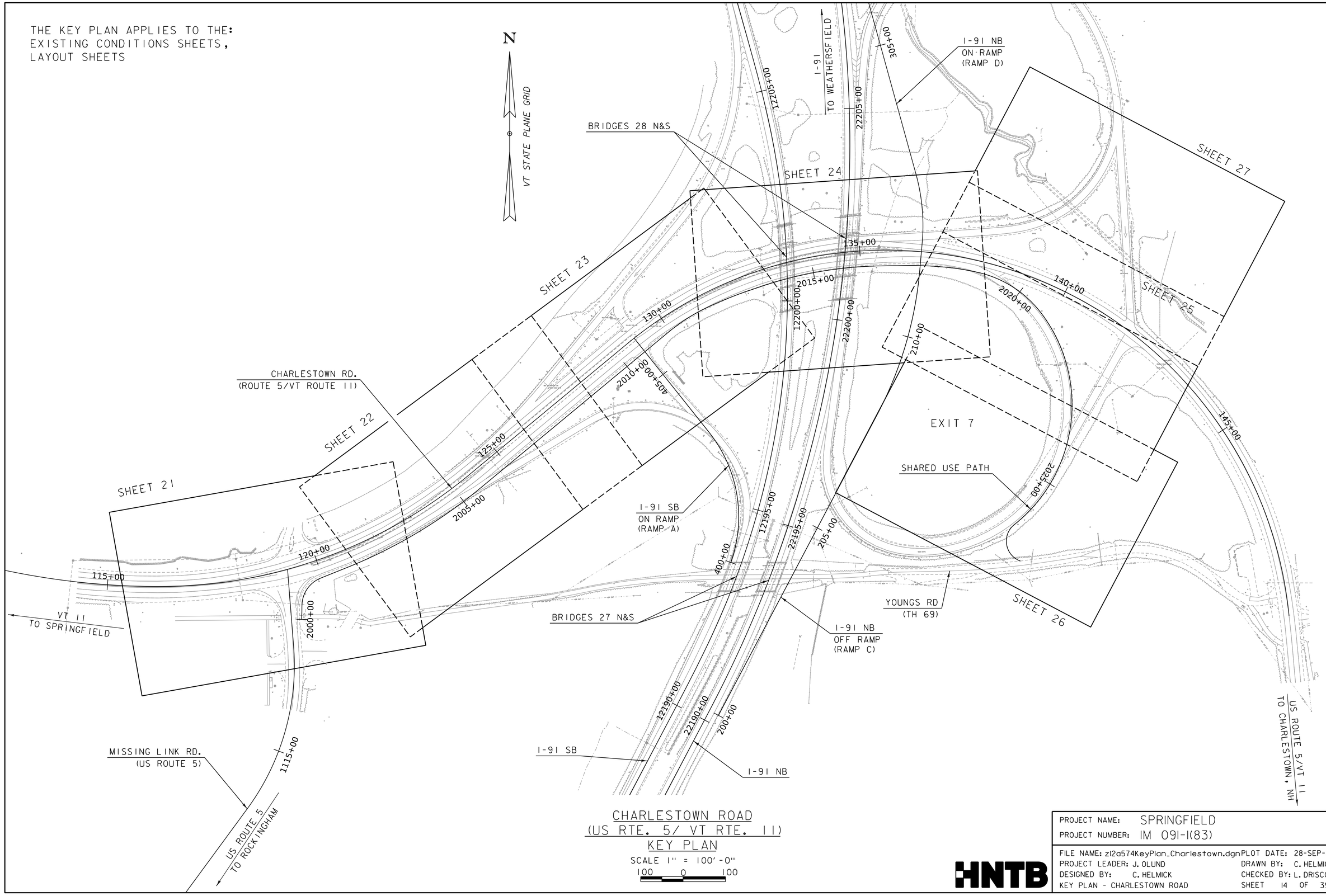
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574typ.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. BEAUSOLEIL
DESIGNED BY: J. MCCAULEY	CHECKED BY: J. OLUND
TYPICAL SECTIONS 8	SHEET 12 OF 395

HNTB

THE KEY PLAN APPLIES TO THE:
EXISTING CONDITIONS SHEETS,
LAYOUT SHEETS,
I-91 NORTHBOUND CROSSOVER PLANS,
I-91 SOUTHBOUND CROSSOVER PLANS.



THE KEY PLAN APPLIES TO THE:
EXISTING CONDITIONS SHEETS,
LAYOUT SHEETS



CHARLESTOWN ROAD
(US RTE. 5/ VT RTE. 11)
KEY PLAN
SCALE 1" = 100'-0"
100 0 100

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574KeyPlan_Charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
KEY PLAN - CHARLESTOWN ROAD	SHEET 14 OF 395

N

VT STATE PLANE GRID

I-91 SB
CURVE (1)
DELTA = 08°07'28"
D = 01°00'00"
R = 5730.00'
T = 406.94'
L = 812.51'
e = 14.43'

PC 12145+48.50

I-91 SB

PC 22141+55.44

I-91 NB

N35°56'47"E

N29°39'21"E

136+00
12137+00
12138+00
12139+00
12140+00
12141+00
12142+00
12143+00
12144+00
12145+00
12146+00
12147+00
12148+00

6+00
22137+00
22138+00
22139+00
22140+00
22141+00
22142+00
22143+00
22144+00
22145+00
22146+00
22147+00
22148+00

MATCH LINE
STA 12148+50

MATCH LINE
STA 22148+50

I-91 NB
CURVE (1)
DELTA = 01°50'08"
D = 00°10'00"
R = 34377.00'
T = 550.67'
L = 1101.25'
e = 4.41'

PI 22147+06.11

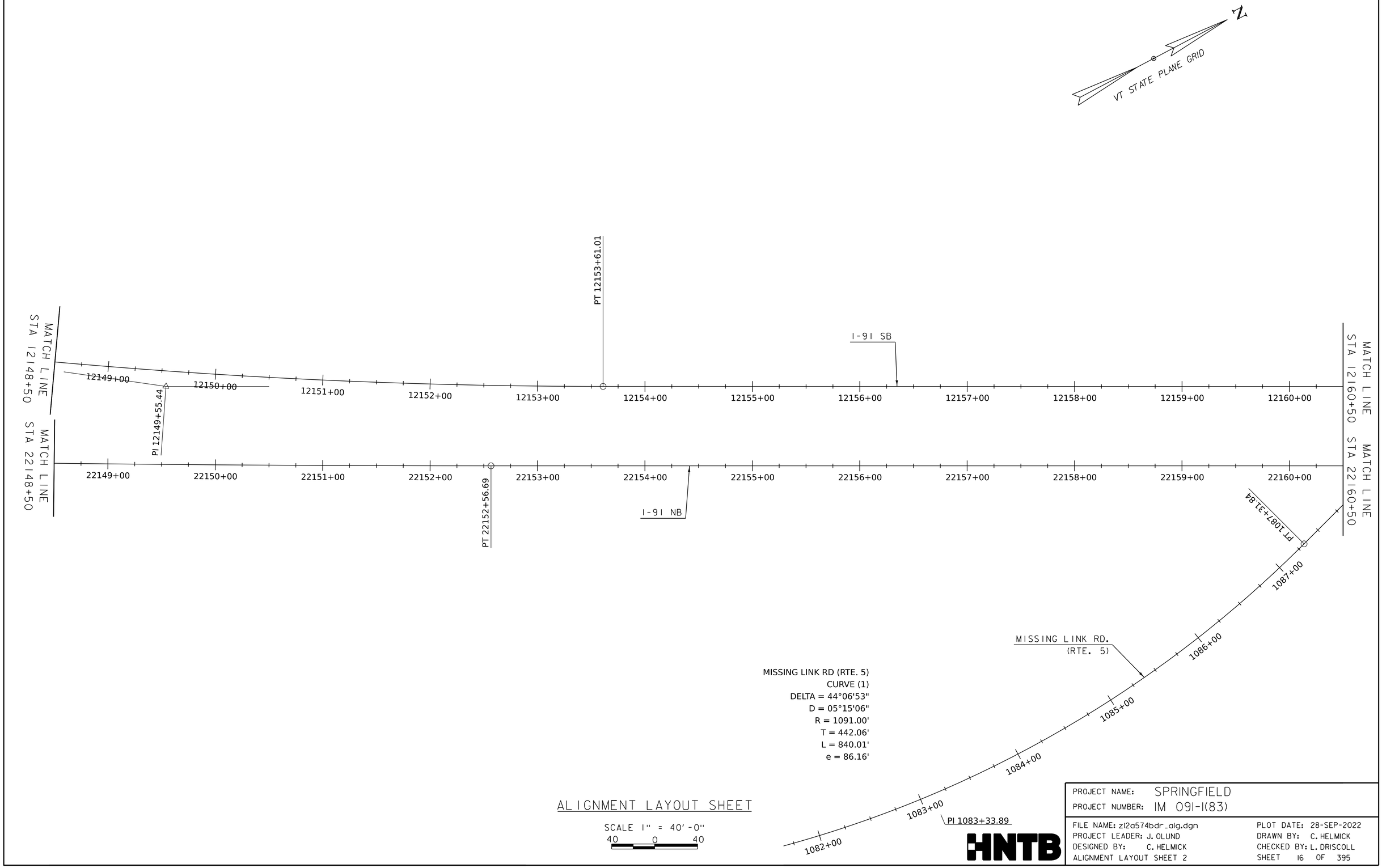
74+60.92

ALIGNMENT LAYOUT SHEET

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574bdr_alg.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
ALIGNMENT LAYOUT SHEET 1	SHEET 15 OF 395



MISSING LINK RD (RTE. 5)
CURVE (1)
DELTA = 44°06'53"
D = 05°15'06"
R = 1091.00'
T = 442.06'
L = 840.01'
e = 86.16'

ALIGNMENT LAYOUT SHEET

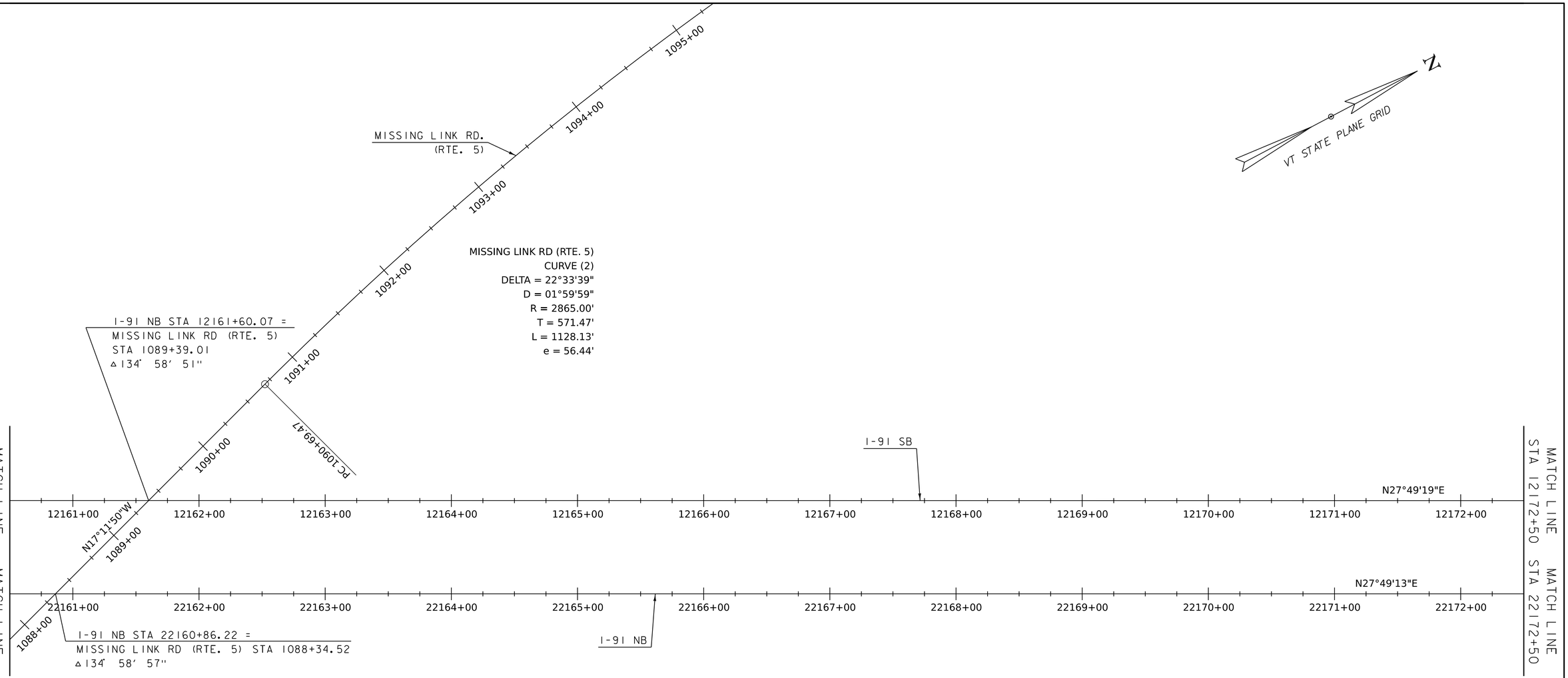
SCALE 1" = 40'-0"
40 0 40

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_alg.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
ALIGNMENT LAYOUT SHEET 2

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 16 OF 395

HNTB

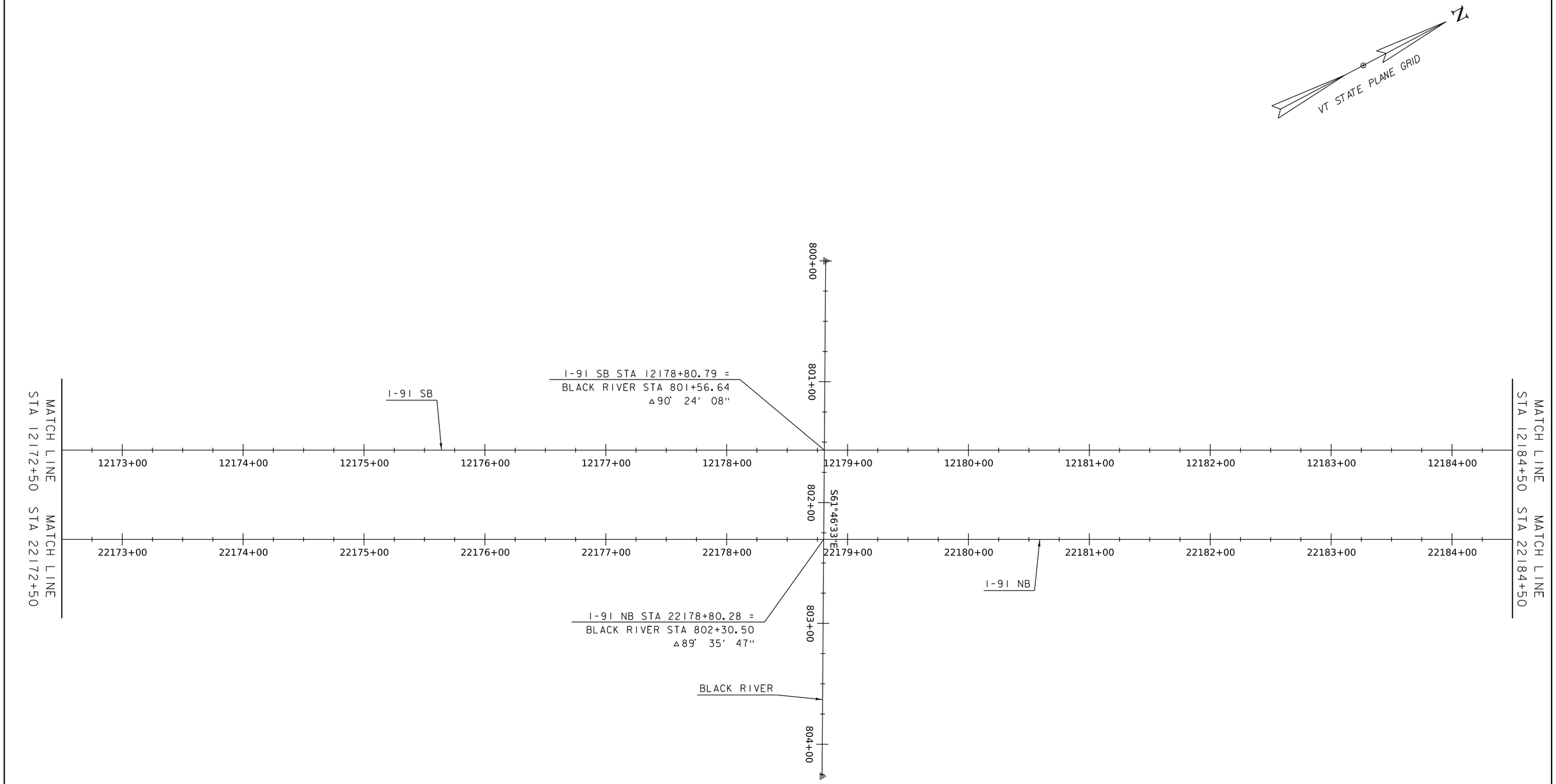


ALIGNMENT LAYOUT SHEET

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574bdr_alg.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
ALIGNMENT LAYOUT SHEET 3	SHEET 17 OF 395



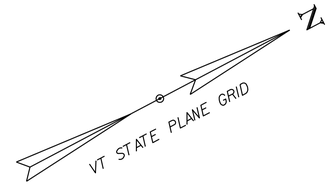
ALIGNMENT LAYOUT SHEET

SCALE 1" = 40'-0"

40 0 40

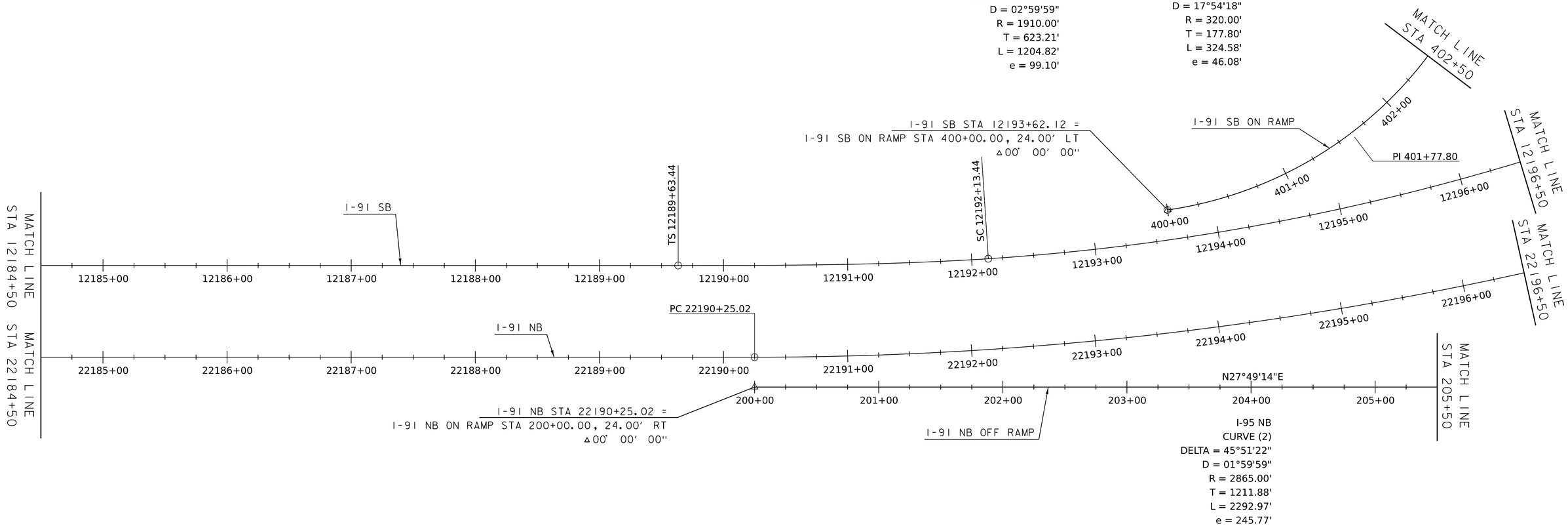
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_alg.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
ALIGNMENT LAYOUT SHEET 4	SHEET 18 OF 395



I-91 SB
CURVE (2)
DELTA = 36°08'31"
D = 02°59'59"
R = 1910.00'
T = 623.21'
L = 1204.82'
e = 99.10'

I-91 SB ON RAMP
CURVE (1)
DELTA = 58°06'55"
D = 17°54'18"
R = 320.00'
T = 177.80'
L = 324.58'
e = 46.08'



I-95 NB
CURVE (2)
DELTA = 45°51'22"
D = 01°59'59"
R = 2865.00'
T = 1211.88'
L = 2292.97'
e = 245.77'

ALIGNMENT LAYOUT SHEET

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574bdr_alg.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
ALIGNMENT LAYOUT SHEET 5	SHEET 19 OF 395

MATCH LINE STA 128+50

PC 129+01.17

CHARLESTOWN RD (US RTE. 5/VT RTE. 11)
STA 129+20.49 =
I-91 SB ON RAMP STA 406+09.45
△90° 00' 00"

VT STATE PLANE GRID

CS 12204+18.26

MATCH LINE STA 12205+50

MATCH LINE STA 22208+50

129+00 406+00 2010+00 130+00 2011+00 131+00 2012+00 132+00 2013+00 133+00 2014+00 134+00 2015+00 135+00 2016+00 136+00 2017+00 137+00 2018+00 138+00 2019+00

CHARLESTOWN RD.
(US RTE. 5/VT RTE. 11)

CHARLESTOWN RD (US RTE. 5/VT RTE. 11)
STA 133+25.37 =
I-91 SB STA 12200+90.57
△101° 58' 12"

12204+00 12205+00 12203+00 12202+00 12201+00 12200+00 12199+00 12198+00 12197+00 22208+00 22207+00 22206+00 22205+00 22204+00 22203+00 22202+00 22201+00 22200+00 22199+00 22198+00 22197+00 307+00 306+00 305+00 304+00 303+00 302+00 301+00 300+00

I-91 SB

SHARED USE PATH
STA 2010+54.72 =
I-91 SB ON RAMP STA 405+68.64
△91° 09' 32"

405+00 404+00 403+00 402+00

N38°30'11.85"W

I-91 SB ON RAMP

PT 403+24.58

MATCH LINE STA 402+50

SHARED USE PATH STA 2014+36.58 =
I-91 SB STA 12200+52.63
△ 76° 22' 35"

SHARED USE PATH STA 2015+71.54 =
I-91 NB STA 22201+22.47
△ 77° 49' 40"

PI 12198+36.66

MATCH LINE STA 12196+50

MATCH LINE STA 22196+50

I-91 NB

SHARED USE PATH
(SEE ALIGNMENT LAYOUT SHEET 9 FOR SHARED USE PATH ALIGNMENT DATA FOR THIS SHEET)

CHARLESTOWN RD (US RTE. 5/VT RTE. 11)
STA 134+64.93 =
I-91 NB STA 22201+60.23
△100° 57' 18"

CHARLESTOWN RD. (US RTE. 5)
CURVE (2)
PI 22202+36.90 DELTA = 124°07'32"
D = 06°00'00"
R = 954.93'
T = 1800.72'
L = 2068.76'
e = 1083.33'

PT 301+84.25

I-95 NB ON RAMP
CURVE (1)
DELTA = 20°25'16"
D = 12°35'33"
R = 455.00'
T = 81.95'
L = 162.17'
e = 7.32'

PC 300+22.08

N04°59'48"E

PI 301+04.04

I-91 NB OFF RAMP
CURVE (1)
DELTA = 22°49'26"
D = 06°21'58"
R = 900.00'
T = 181.67'
L = 358.52'
e = 18.15'

PT 211+60.81

PC 208+02.30

MATCH LINE STA 205+50

206+00 207+00 208+00 209+00 210+00 211+00 212+00

I-91 NB OFF RAMP

PI 209+83.97

SHARED USE PATH STA 2017+52.78 =
I-91 NB OFF RAMP STA 211+70.88
△93° 35' 39"

CHARLESTOWN RD (US RTE. 5/VT RTE. 11) STA 136+45.49 =
I-91 NB ON RAMP STA 300+00.00 =
I-91 NB OFF RAMP STA. 212+03.82
△90° 00' 00"

I-91 NB ON RAMP

N15°25'28"W

912 911+00 910+00 909+00 908+00 907+00 906+00

SPENCER BROOK
(SEE ALIGNMENT LAYOUT SHEET 10 FOR SPENCER BROOK ALIGNMENT DATA FOR THIS SHEET)

MATCH LINE STA 138+50

ALIGNMENT LAYOUT SHEET

SCALE 1" = 40'-0"
40 0 40

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

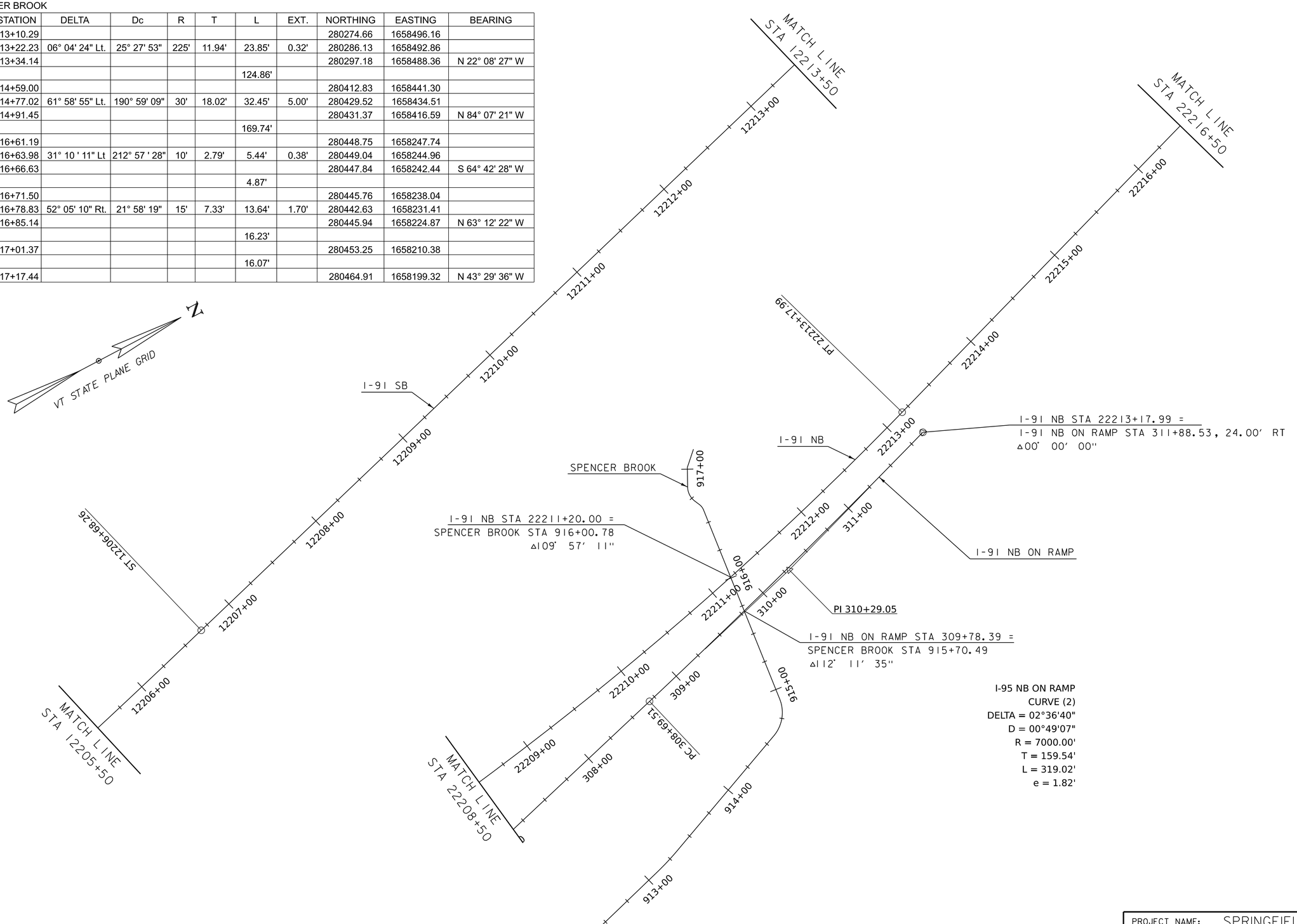
FILE NAME: zl2a574bdr_alg.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
ALIGNMENT LAYOUT SHEET 6

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 20 OF 395

HNTB

SPENCER BROOK

POINT	STATION	DELTA	Dc	R	T	L	EXT.	NORTHING	EASTING	BEARING
PC	913+10.29							280274.66	1658496.16	
PI	913+22.23	06° 04' 24" Lt.	25° 27' 53"	225'	11.94'	23.85'	0.32'	280286.13	1658492.86	
PT	913+34.14							280297.18	1658488.36	N 22° 08' 27" W
TO						124.86'				
PC	914+59.00							280412.83	1658441.30	
PI	914+77.02	61° 58' 55" Lt.	190° 59' 09"	30'	18.02'	32.45'	5.00'	280429.52	1658434.51	
PT	914+91.45							280431.37	1658416.59	N 84° 07' 21" W
TO						169.74'				
PC	916+61.19							280448.75	1658247.74	
PI	916+63.98	31° 10 ' 11" Lt	212° 57 ' 28"	10'	2.79'	5.44'	0.38'	280449.04	1658244.96	
PT	916+66.63							280447.84	1658242.44	S 64° 42' 28" W
TO						4.87'				
PC	916+71.50							280445.76	1658238.04	
PI	916+78.83	52° 05' 10" Rt.	21° 58' 19"	15'	7.33'	13.64'	1.70'	280442.63	1658231.41	
PT	916+85.14							280445.94	1658224.87	N 63° 12' 22" W
TO						16.23'				
PI	917+01.37							280453.25	1658210.38	
TO						16.07'				
POE	917+17.44							280464.91	1658199.32	N 43° 29' 36" W



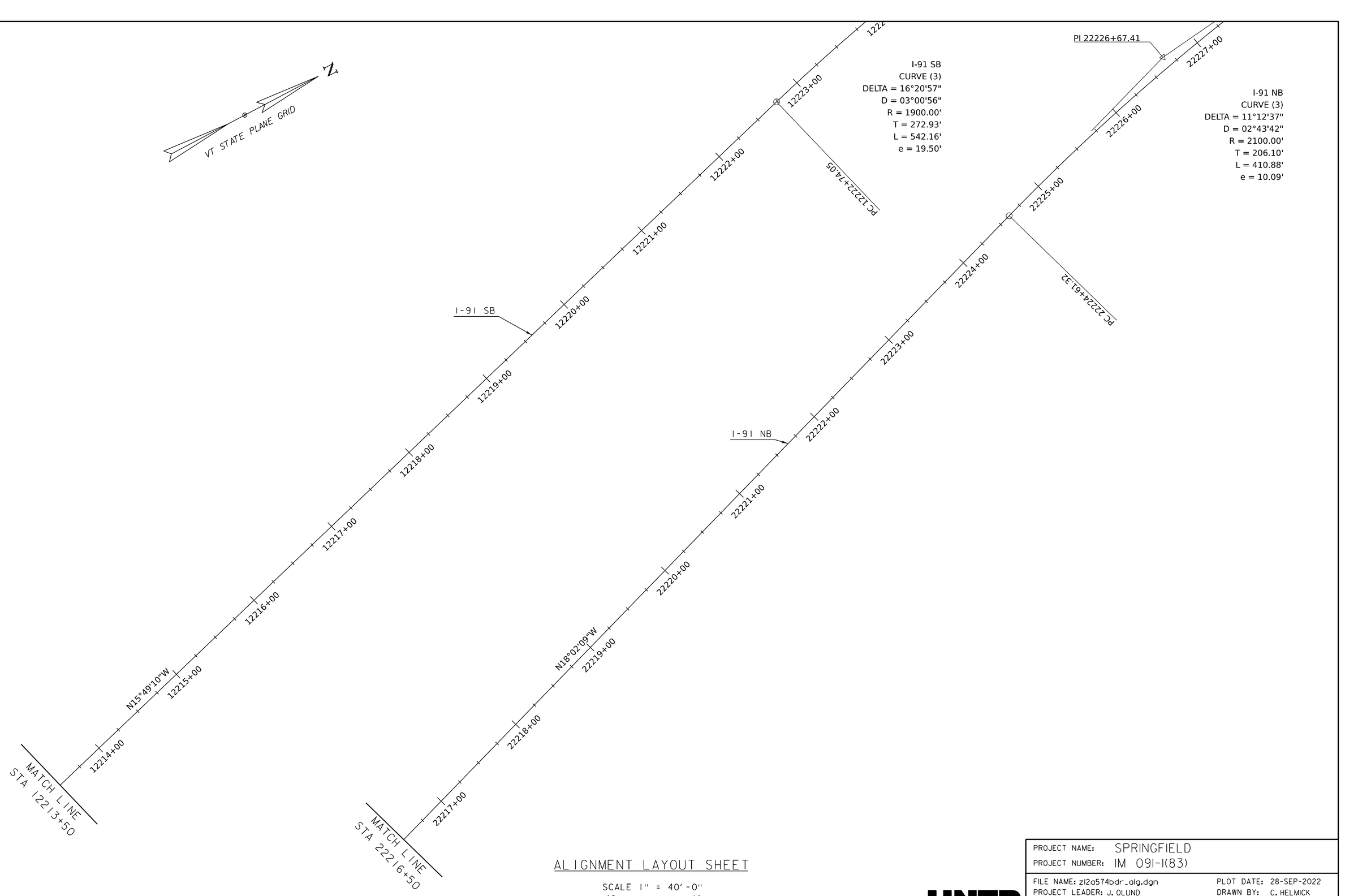
I-95 NB ON RAMP
CURVE (2)
DELTA = 02°36'40"
D = 00°49'07"
R = 7000.00'
T = 159.54'
L = 319.02'
e = 1.82'

ALIGNMENT LAYOUT SHEET

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_alg.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
ALIGNMENT LAYOUT SHEET 7	SHEET 21 OF 395



ALIGNMENT LAYOUT SHEET

SCALE 1" = 40'-0"

40 0 40

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574bdr_alg.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
ALIGNMENT LAYOUT SHEET 8	SHEET 22 OF 395

SHARED USE PATH

POINT	STATION	DELTA	Dc	R	T	L	EXT.	NORTHING	EASTING	BEARING
POB	2000+00.00							278623.87	1657100.82	N 01° 03' 08" E
TO						33.65'				
PC	2000+33.65							278657.52	1657101.44	
PI	2000+80.02	67° 02' 29" Rt.	81° 51' 04"	70'	46.37'	81.91'	13.96'	278703.88	1657102.29	
PT	2001+15.56							278721.18	1657145.31	N 68° 05' 37" E
TO						67.01'				
PC	2001+82.57							278746.18	1657207.48	
PI	2002+74.74	08° 52' 52" Lt.	04° 49' 38"	1186.92'	92.17 '	183.98'	3.57'	278780.57	1657293.00	
PCC	2003+66.54							278827.75	1657372.18	N 59° 12' 46" E
PI	2004+58.65	08° 52' 30" Lt.	04 49' 38"	1186.92'	92.11'	183.85'	3.57'	278874.89	1657451.31	
PT	2005+50.40							278933.68	1657522.22	N 50° 20' 16" E
TO						578.15'				
PC	2011+28.54							279302.69	1657967.29	
PI	2011+78.26	13° 25' 24" Rt.	13 33' 39"	422.51'	49.72'	98.99'	2.92'	279334.43	1658005.56	
PCC	2012+27.53							279356.41	1658050.16	N 63° 45' 40" E
PI	2012+81.66	07° 30' 24" Rt.	06° 56' 37"	825.17'	54.13 '	108.11'	1.77'	279380.34	1658098.71	
PT	2013+35.64							279397.73	1658149.98	N 71° 16' 03" E
TO						36.73'				
PC	2013+72.37							279409.52	1658184.76	
PI	2015+17.75	18° 00' 00" Rt.	06° 14' 31"	917.93'	145.39'	288.37'	11.44'	279456.21	1658322.45	
PT	2016+60.74							279458.07	1658467.82	N 89° 16' 03" E
PT						62.48'				
PC	2017+23.22							279458.87	1658530.29	
PI	2017+76.74	07° 42' 02" Rt.	07° 12' 15"	795.31'	53.53'	106.89'	1.80'	279459.55	1658583.81	
PCC	2018+30.11							279453.06	1658636.94	S 83° 01' 55" E
PI	2018+59.79	05° 43' 01" Rt.	09° 38' 19"	594.44'	29.68'	59.31'	0.74'	279449.46	1658666.41	
PCC	2018+89.42							279442.94	1658695.36	S 77° 18' 54" E

CHARLESTOWN RD. (US RTE. 5)
CURVE (1)
DELTA = 39°45'57"
D = 05°00'00"
R = 1145.92'
T = 414.43'
L = 795.32'
e = 72.64'

CHARLESTOWN RD (RTE. 5)
STA 119+28.46 =
MISSING LINK RD (US RTE. 5)
STA 1119+34.10
Δ79° 12' 10"

MISSING LINK RD.
(US RTE. 5)

PI 120+34.44

CHARLESTOWN RD (US RTE. 5/VT RTE. 11) 121+00.00 =
I-91 NB ON RAMP STA 2002+23.78, 41.00' RT
Δ00° 00' 00"

CHARLESTOWN RD.
(US RTE. 5/VT RTE. 11)

MISSING LINK RD STA 1118+13.52 =
SHARED USE PATH STA 2000+00.00, 23.99' RT
Δ00° 00' 00"

SHARED USE PATH

PT 124+15.33

N04°31'17"W

PT 1117+52.60

N50°20'16"E

MATCH LINE
STA 128+50

VT STATE PLANE GRID

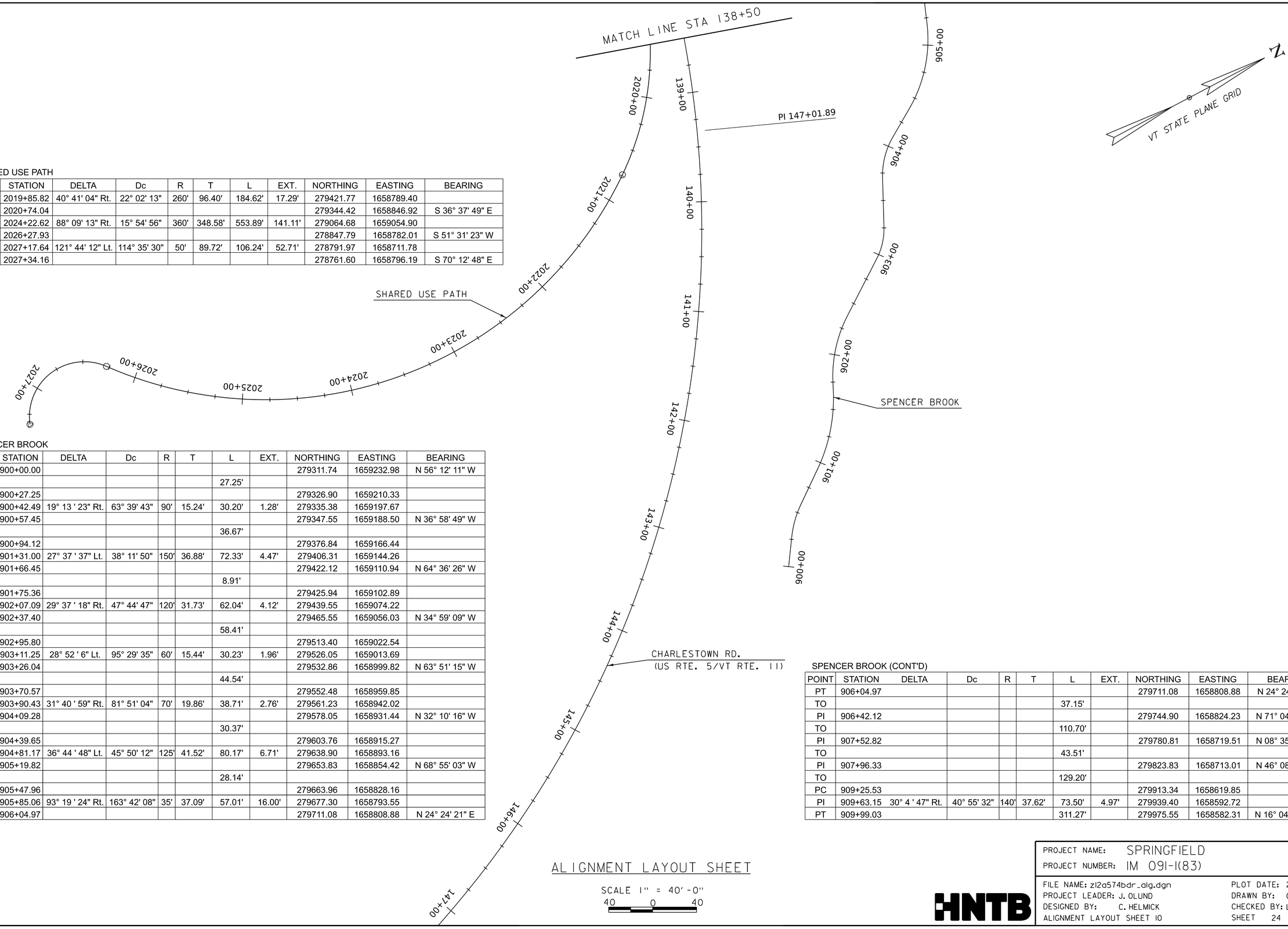
ALIGNMENT LAYOUT SHEET

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574bdr_alg.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
ALIGNMENT LAYOUT SHEET 9	SHEET 23 OF 395



SHARED USE PATH

POINT	STATION	DELTA	Dc	R	T	L	EXT.	NORTHING	EASTING	BEARING
PI	2019+85.82	40° 41' 04" Rt.	22° 02' 13"	260'	96.40'	184.62'	17.29'	279421.77	1658789.40	
PCC	2020+74.04							279344.42	1658846.92	S 36° 37' 49" E
PI	2024+22.62	88° 09' 13" Rt.	15° 54' 56"	360'	348.58'	553.89'	141.11'	279064.68	1659054.90	
PRC	2026+27.93							278847.79	1658782.01	S 51° 31' 23" W
PI	2027+17.64	121° 44' 12" Lt.	114° 35' 30"	50'	89.72'	106.24'	52.71'	278791.97	1658711.78	
POE	2027+34.16							278761.60	1658796.19	S 70° 12' 48" E

SPENCER BROOK

POINT	STATION	DELTA	Dc	R	T	L	EXT.	NORTHING	EASTING	BEARING
POB	900+00.00							279311.74	1659232.98	N 56° 12' 11" W
TO						27.25'				
PC	900+27.25							279326.90	1659210.33	
PI	900+42.49	19° 13 ' 23" Rt.	63° 39' 43"	90'	15.24'	30.20'	1.28'	279335.38	1659197.67	
PT	900+57.45							279347.55	1659188.50	N 36° 58' 49" W
TO						36.67'				
PC	900+94.12							279376.84	1659166.44	
PI	901+31.00	27° 37 ' 37" Lt.	38° 11' 50"	150'	36.88'	72.33'	4.47'	279406.31	1659144.26	
PT	901+66.45							279422.12	1659110.94	N 64° 36' 26" W
TO						8.91'				
PC	901+75.36							279425.94	1659102.89	
PI	902+07.09	29° 37 ' 18" Rt.	47° 44' 47"	120'	31.73'	62.04'	4.12'	279439.55	1659074.22	
PT	902+37.40							279465.55	1659056.03	N 34° 59' 09" W
TO						58.41'				
PC	902+95.80							279513.40	1659022.54	
PI	903+11.25	28° 52 ' 6" Lt.	95° 29' 35"	60'	15.44'	30.23'	1.96'	279526.05	1659013.69	
PT	903+26.04							279532.86	1658999.82	N 63° 51' 15" W
TO						44.54'				
PC	903+70.57							279552.48	1658959.85	
PI	903+90.43	31° 40 ' 59" Rt.	81° 51' 04"	70'	19.86'	38.71'	2.76'	279561.23	1658942.02	
PT	904+09.28							279578.05	1658931.44	N 32° 10' 16" W
TO						30.37'				
PC	904+39.65							279603.76	1658915.27	
PI	904+81.17	36° 44 ' 48" Lt.	45° 50' 12"	125'	41.52'	80.17'	6.71'	279638.90	1658893.16	
PT	905+19.82							279653.83	1658854.42	N 68° 55' 03" W
TO						28.14'				
PC	905+47.96							279663.96	1658828.16	
PI	905+85.06	93° 19 ' 24" Rt.	163° 42' 08"	35'	37.09'	57.01'	16.00'	279677.30	1658793.55	
PT	906+04.97							279711.08	1658808.88	N 24° 24' 21" E

SPENCER BROOK (CONT'D)

POINT	STATION	DELTA	Dc	R	T	L	EXT.	NORTHING	EASTING	BEARING
PT	906+04.97							279711.08	1658808.88	N 24° 24' 21" E
TO						37.15'				
PI	906+42.12							279744.90	1658824.23	N 71° 04' 26" W
TO						110.70'				
PI	907+52.82							279780.81	1658719.51	N 08° 35' 26" W
TO						43.51'				
PI	907+96.33							279823.83	1658713.01	N 46° 08' 49" W
TO						129.20'				
PC	909+25.53							279913.34	1658619.85	
PI	909+63.15	30° 4 ' 47" Rt.	40° 55' 32"	140'	37.62'	73.50'	4.97'	279939.40	1658592.72	
PT	909+99.03					311.27'		279975.55	1658582.31	N 16° 04' 02" W

ALIGNMENT LAYOUT SHEET

SCALE 1" = 40'-0"

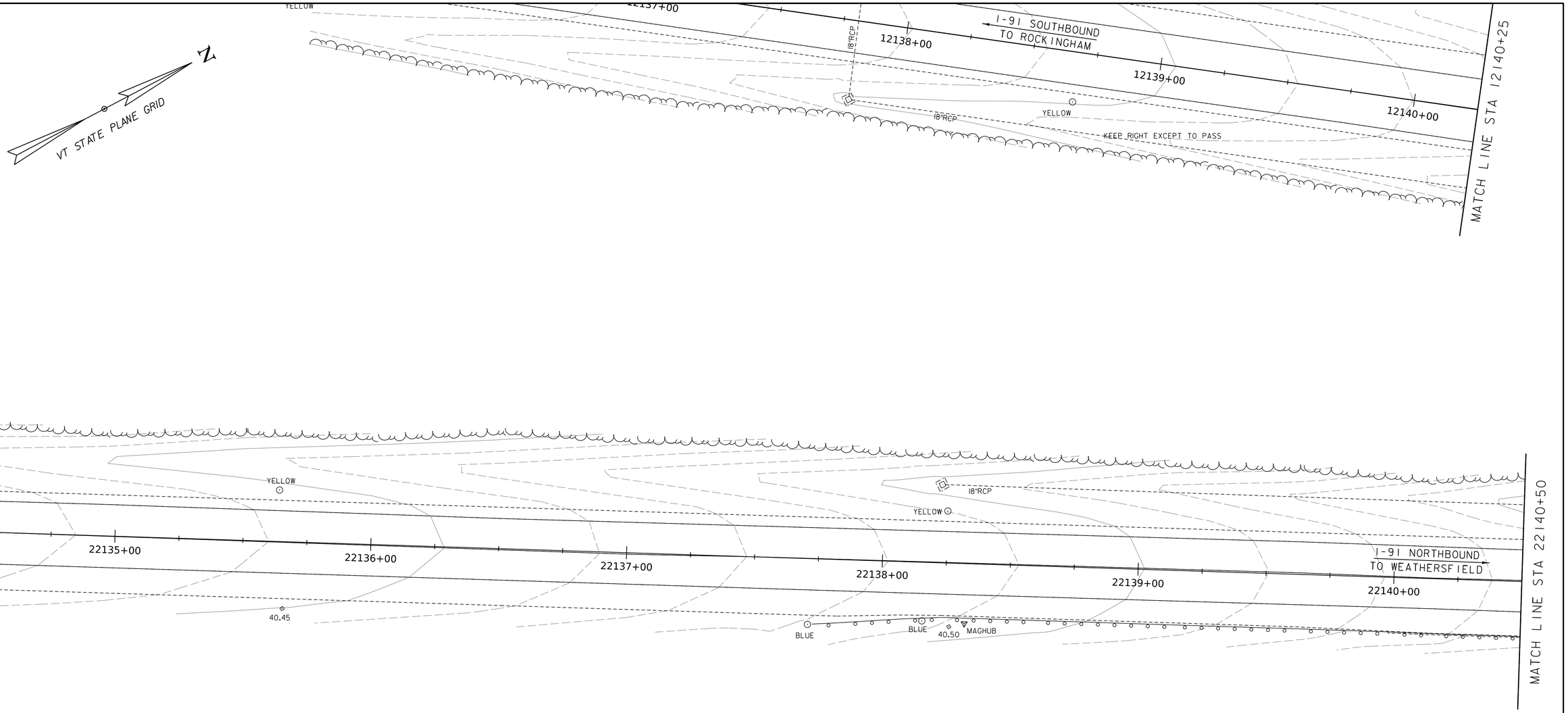
40 0 40

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_alg.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
ALIGNMENT LAYOUT SHEET 10

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 24 OF 395



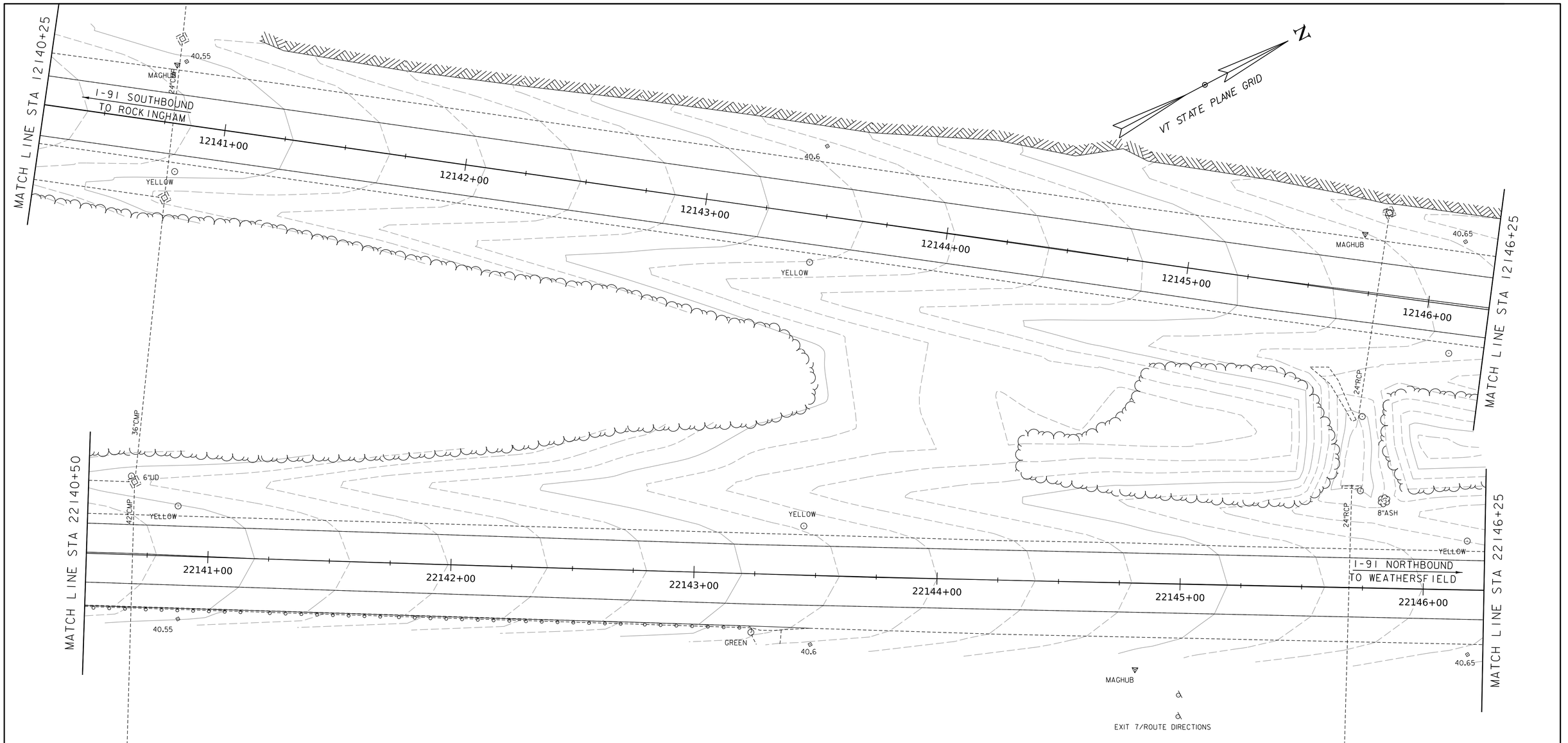
EXISTING CONDITIONS

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 1	SHEET 25 OF 395



EXISTING CONDITIONS

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 2	SHEET 26 OF 395

N

VT STATE PLANE GRID

MATCH LINE STA 12146+25

I-91 SOUTHBOUND
TO ROCKINGHAM

8"ASH

12147+00

12148+00

12149+00

12150+00

12151+00

12152+00

24"RCP

40.70

MAGHUB

40.75

MAGHUB

MATCH LINE STA 12152+25

MATCH LINE STA 22146+25

6"CMP

24"RCP

BLUE

BLUE

YELLOW

PEAK LG BOULDER

PEAK OF BOULDER

YELLOW

I-91 NORTHBOUND
TO WEATHERSFIELD

22147+00

22148+00

22149+00

22150+00

22151+00

22152+00

40.70

24"RCP

40.75

MAGHUB

MATCH LINE STA 22152+25

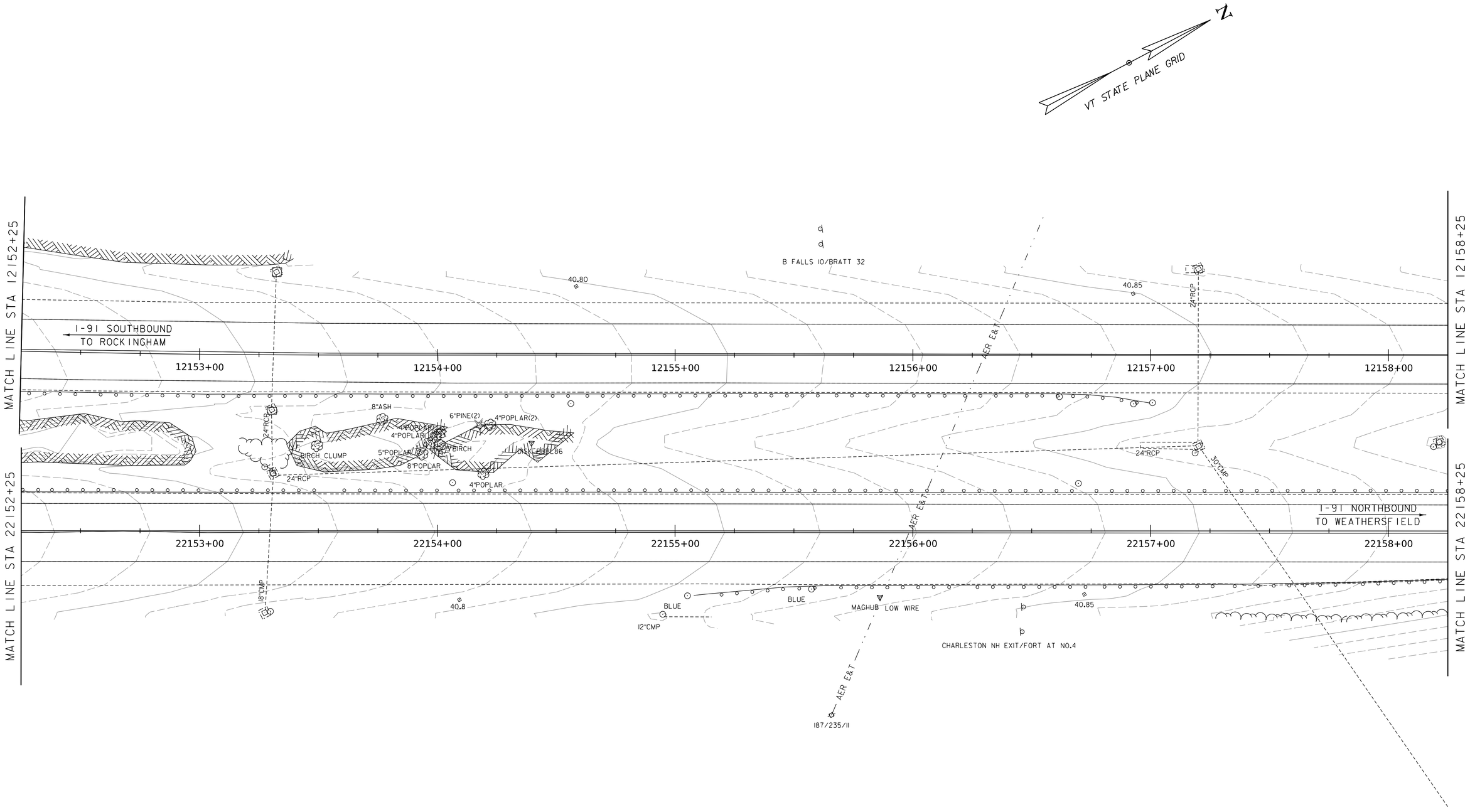
EXISTING CONDITIONS

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 3	SHEET 27 OF 395



EXISTING CONDITIONS

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 4	SHEET 28 OF 395

N

VT STATE PLANE GRID

EXISTING BRIDGE
BUILT 1965,
CONTINUOUS 3-SPAN ROLLED BEAM,
CONCRETE DECK
205' LENGTH. 45° SKEW

MATCH LINE STA 12158+25

MATCH LINE STA 22158+25

I-91 SOUTHBOUND
TO ROCKINGHAM

12159+00 12160+00 12161+00 12162+00 12163+00 12164+00

22159+00 22160+00 22161+00 22162+00 22163+00 22164+00

I-91 NORTHBOUND
TO WEATHERSFIELD

US ROUTE 5
TO SPRINGFIELD

US ROUTE 5
TO ROCKINGHAM

1086+00 1087+00 1088+00 1089+00 1090+00 1091+00

LEDGE OUTCROP

10"ASH

14'-0"CLEARANCE

40.90

MAGHUB

BRIDGE 25S I-91
CAUTION

18"CMP

DRAINAGE OPENING
CONC COVER

24"RCP

18"RCP

CAUTION

MAGNAIL

5/8"REBAR W/SE CONTROL CAP

CAUTION
BRIDGE 28N I-91

40.95

30"CMP

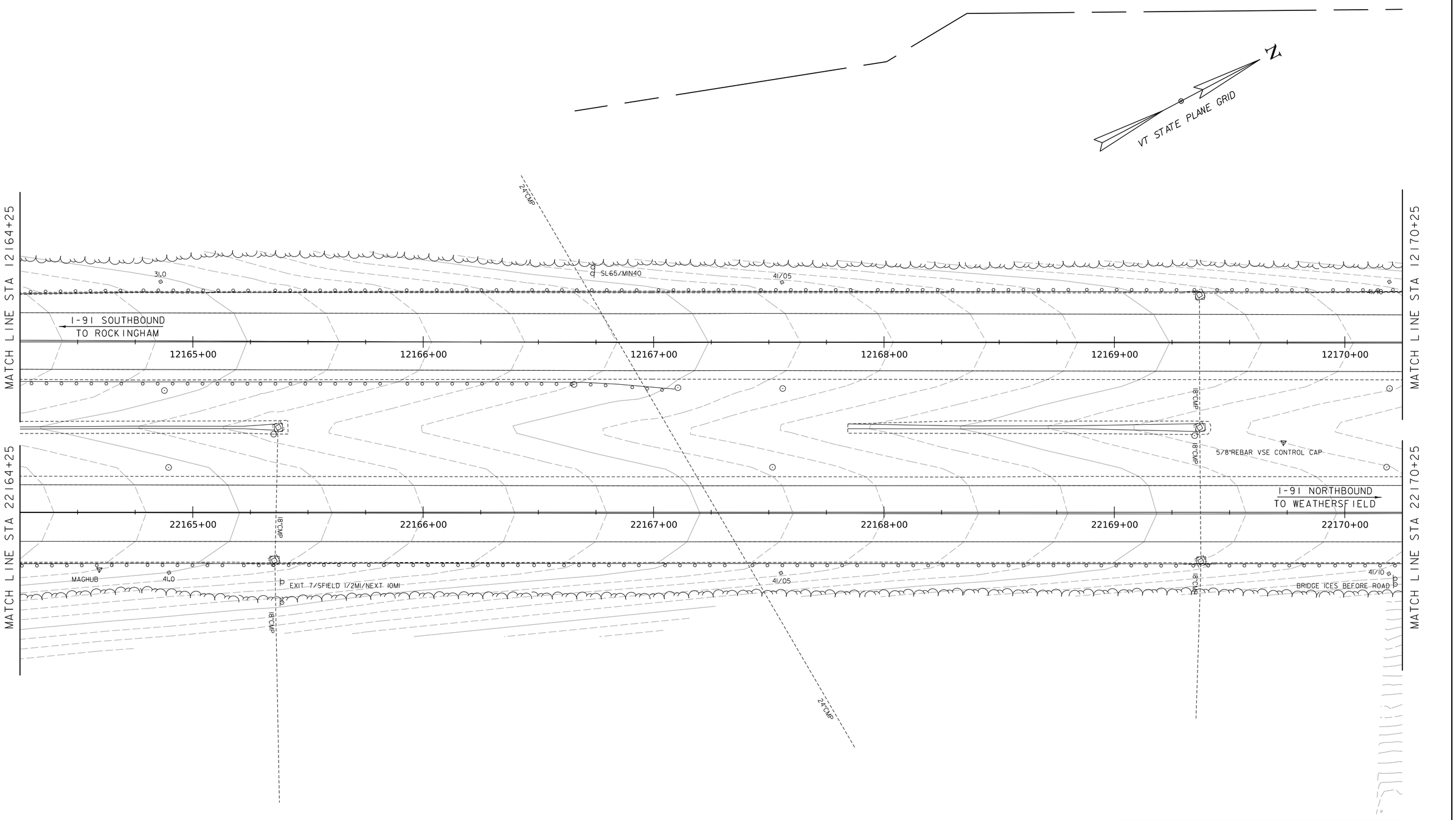
EXISTING BRIDGE
BUILT 1965,
CONTINUOUS 3-SPAN ROLLED BEAM,
CONCRETE DECK
225' LENGTH. 45° SKEW

EXISTING CONDITIONS

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 5	SHEET 29 OF 395



EXISTING CONDITIONS

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 6	SHEET 30 OF 395

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

MATCH LINE STA 22170+25

MATCH LINE STA 22176+40

ARCH

VT STATE PLANE GRID

N

SOUTH I-91

12"CMP

41.15

41.2

EMER STOPPING ONLY/2.7' WIDE

I-91 SOUTHBOUND
TO ROCKINGHAM

12171+00 12172+00 12173+00 12174+00 12175+00 12176+00

18"CMP

I-91 NORTHBOUND
TO WEATHERSFIELD

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

BLACK RIVER

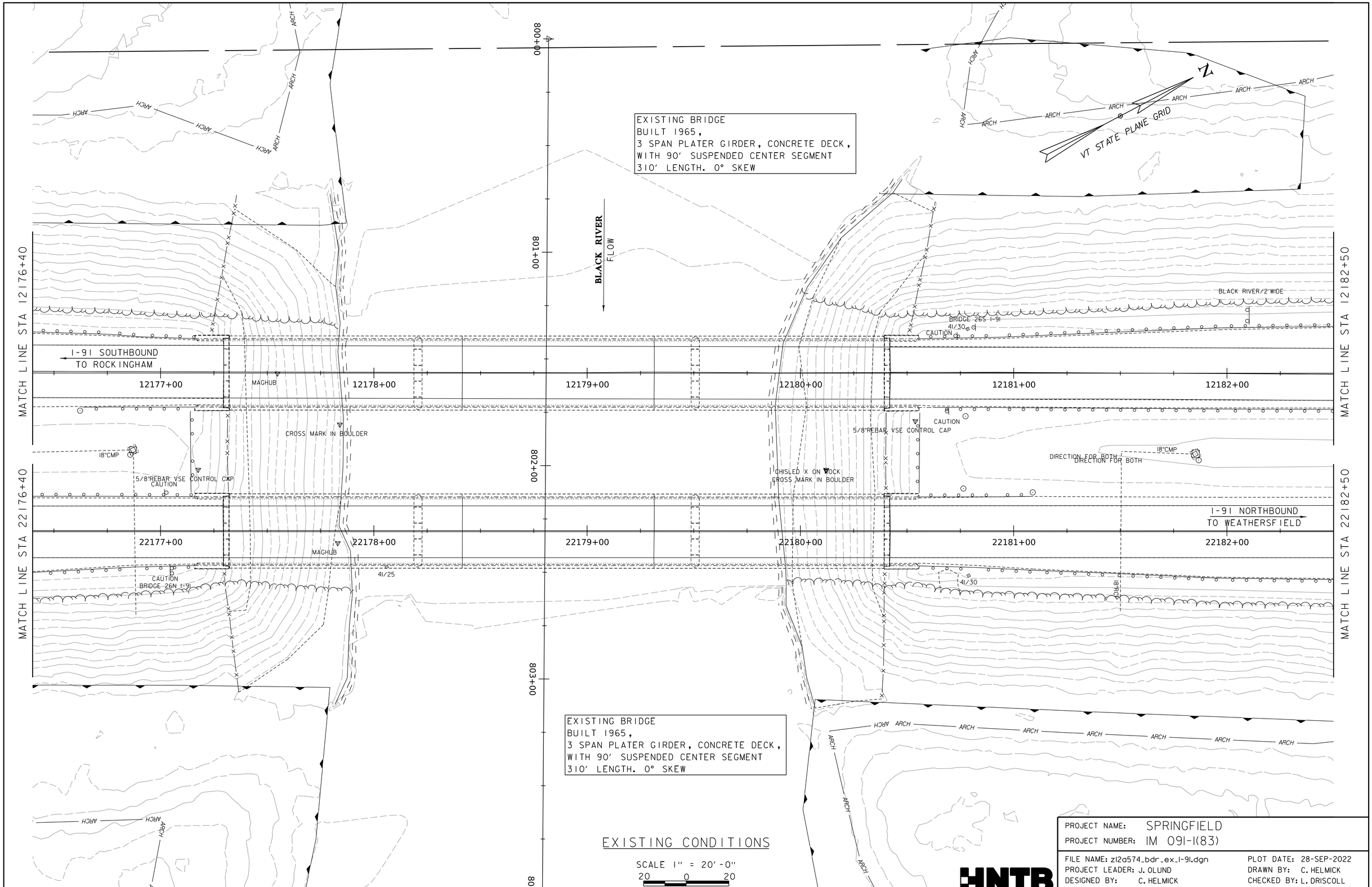
EXISTING CONDITIONS

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 7	SHEET 31 OF 395



EXISTING CONDITIONS

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 8	SHEET 32 OF 395

ARCH ARCH ARCH ARCH ARCH ARCH ARCH ARCH

VT STATE PLANE GRID

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

41/35 MAGHUB

BRIDGE ICES BEFORE ROAD

MAGHUB

41.1

MAGHUB

I-91 SOUTHBOUND
TO ROCKINGHAM

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

5/8"REBAR VSE CONTROL CAP

NO U-TURN/2'WIDE

8"HID DIRECTIONAL

NO U-TURN/2'WIDE

I-91 NORTHBOUND
TO WEATHERSFIELD

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

41/35

EXIT INFO

MAGHUB

41.4

MAGHUB

41.4

MATCH LINE STA 22182+50

MATCH LINE STA 22188+60

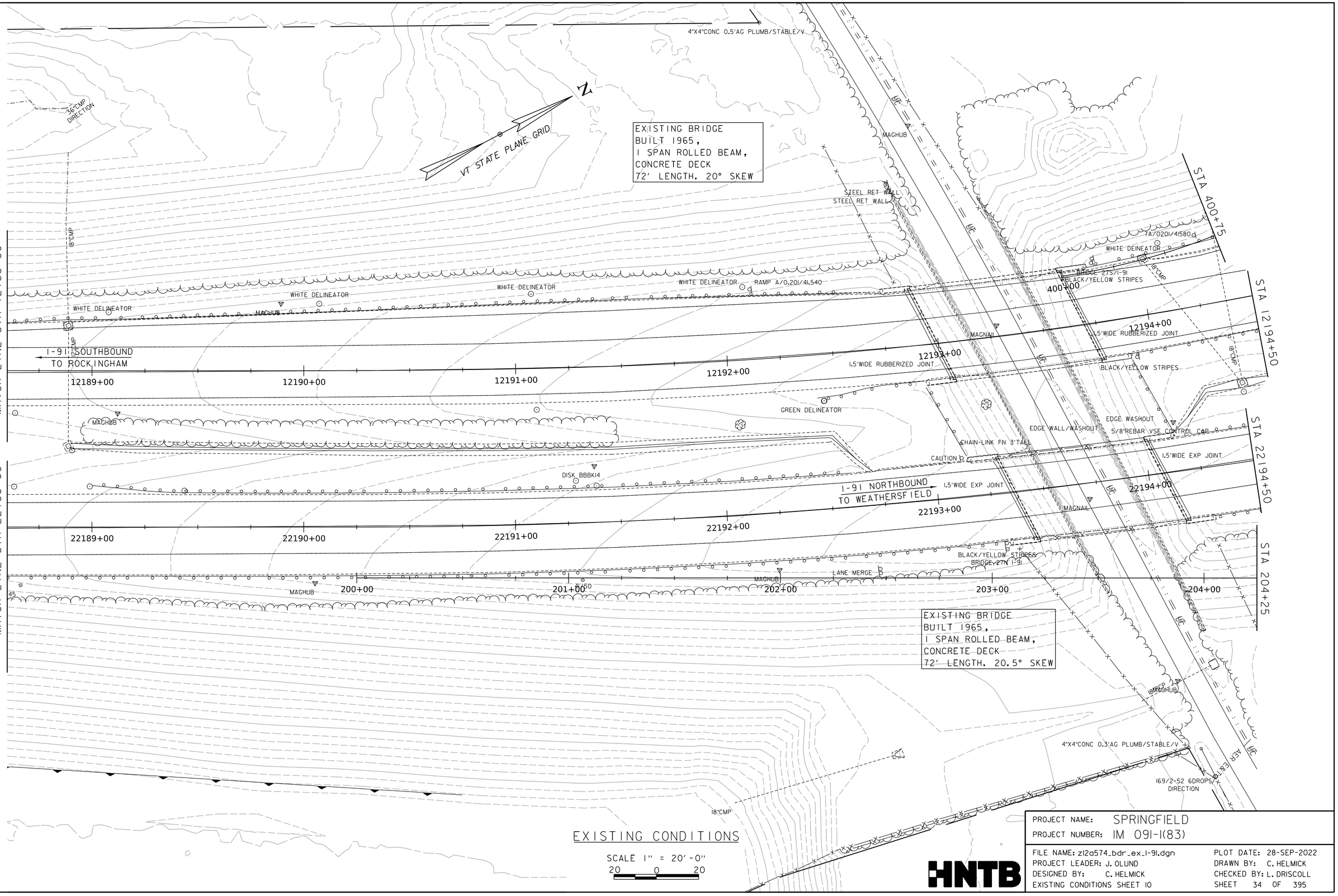
ARCH ARCH ARCH ARCH ARCH ARCH

EXISTING CONDITIONS

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 9	SHEET 33 OF 395



PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574_bdr_ex_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
EXISTING CONDITIONS SHEET 10

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL

STA 204+25

STA 22194+50

MATCH LINE STA 209+00

MATCH LINE STA 209+25

205+00

206+00

207+00

208+00

209+00

22195+00

22196+00

22197+00

22198+00

22199

I-91 NORTHBOUND
TO WEATHERSFIELD

I-91 ON RAMP
TO I-91 NORTHBOUND

ONE WAY

5/8"REBAR WSE CONTROL CAP

LOW WIRE

GREEN DELINEATOR

41.6

YELLOW DELINEATOR

NO LEFT TURN

GREEN DELINEATOR

YELLOW DELINEATOR

CHEVRON

YELLOW DELINEATOR

YELLOW DELINEATOR

YELLOW DELINEATOR

CHEVRON

YELLOW DELINEATOR

YELLOW DELINEATOR

CHEVRON

YELLOW DELINEATOR

YELLOW DELINEATOR

RIGHT CHEVRON

BIKE ROUTE NO MOTOR VEHICLES

YIELD

BLUE DELINEATOR

WHITE DELINEATOR

BLUE DELINEATOR

WHITE DELINEATOR

WHITE DELINEATOR

WHITE DELINEATOR

2'OD STEEL OVERHEAD SIGN MAST

AER E&T

AER E&T

AER E&T

MATCH LINE STA 209+00

MATCH LINE STA 209+25

MATCH LINE STA 22204+75

MATCH LINE STA 303+25

WHITE RIVER JCT 89 NORTH I-91

BLACK/YELLOW STRIPES

5/8"REBAR VSE CONTROL CAP

8'WIDE ONLY

1.5"WIDE STEEL EXP JOINT

OLD WHITE

WHITE DELINEATOR

BLACK/YELLOW STRIPES

BRIDGE 28N I-91

MAGHUB

MAGNAIL

EXISTING BRIDGE
BUILT 1965,
2-2 SPAN CONTINUOUS
ROLLED BEAMS, CONCRETE DECK
198' LENGTH. 79° SKEW

RIGHT TURN ARROW

18"CMP

EXIT 30MPH

DIRECTIONS

8"WIDE

US ROUTE 5
TO SPRINGFIELD U. C.

RTE DIRECTIONS

NO LT TURN/KEEP RT/CAUTION

BEVELED

US ROUTE 5
TO CHARLESTOWN, NH

0050/1418/0260

DO NOT ENTER

LANE DIRECTIONS

ONE WAY

18"MAPLE

PAVED SWALE

GREEN DELINEATOR

WRONG WAY

YELLOW DELINEATOR

I-91 NORTHBOUND
TO WEATHERSFIELD

RAMP 25MPH/WRONG WAY

RAMP C/0.395/41.728

8"POPLAR

5"POPLAR

24"C

VT STATE PLANE GRID

N

EXISTING CONDITIONS

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 12	SHEET 36 OF 395

HNTB

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

22205+00

22206+00

22207+00

22208+00

22209+00

22210+00

YELLOW DELINEATOR

5/8"REBAR VSE CONTROL CAP

BLUE DELINEATOR

BLUE DELINEATOR

YELLOW DELINEATOR

I-91 NORTHBOUND
TO WEATHERSFIELD

9 YELLOW REFLECTORS

EXIT 7

MILE 41.8

YELLOW DELINEATOR

WHITE DELINEATOR

SHARP CURVE/25MPH

WHITE DELINEATOR

MAGHUB

41/85

MATCH LINE STA 309+25

309+00

308+00

307+00

306+00

YELLOW DELINEATOR

305+00

304+00

MATCH LINE STA 303+25

MP

EXISTING CULVERT
CONCRETE BOX CULVERT,
BUILT 1965,
235' BARREL LENGTH
30' AVERAGE COVER
121 SF AREA THROUGH CULVERT

MAGHUB

MAGHUB

MAGHUB

CHEVRON

YELLOW DELINEATOR

SPENCER BROOK
FLOW

914+00

STOP AHEAD

YELLOW DELINEATOR

913+00

4"X4"CONC I"AG PLUMB/STABLE/VTH

18"CMP

GREEN DELINEATOR

912+00

CHEVRON

MAGHUB

911+00

910+00

VT STATE PLANE GRID

N

YELLOW DELINEATOR

I-91 OFF RAMP
TO US ROUTE 5

DIRECTION

1'TALL OPENING

GREEN DELINEATOR

CHEVRON

YELLOW DELINEATOR

ORANGE SEEP

909+00

MAGHUB

MAGHUB

RTE DIRECTIONS

YELLOW DELINEATOR

EXISTING CONDITIONS

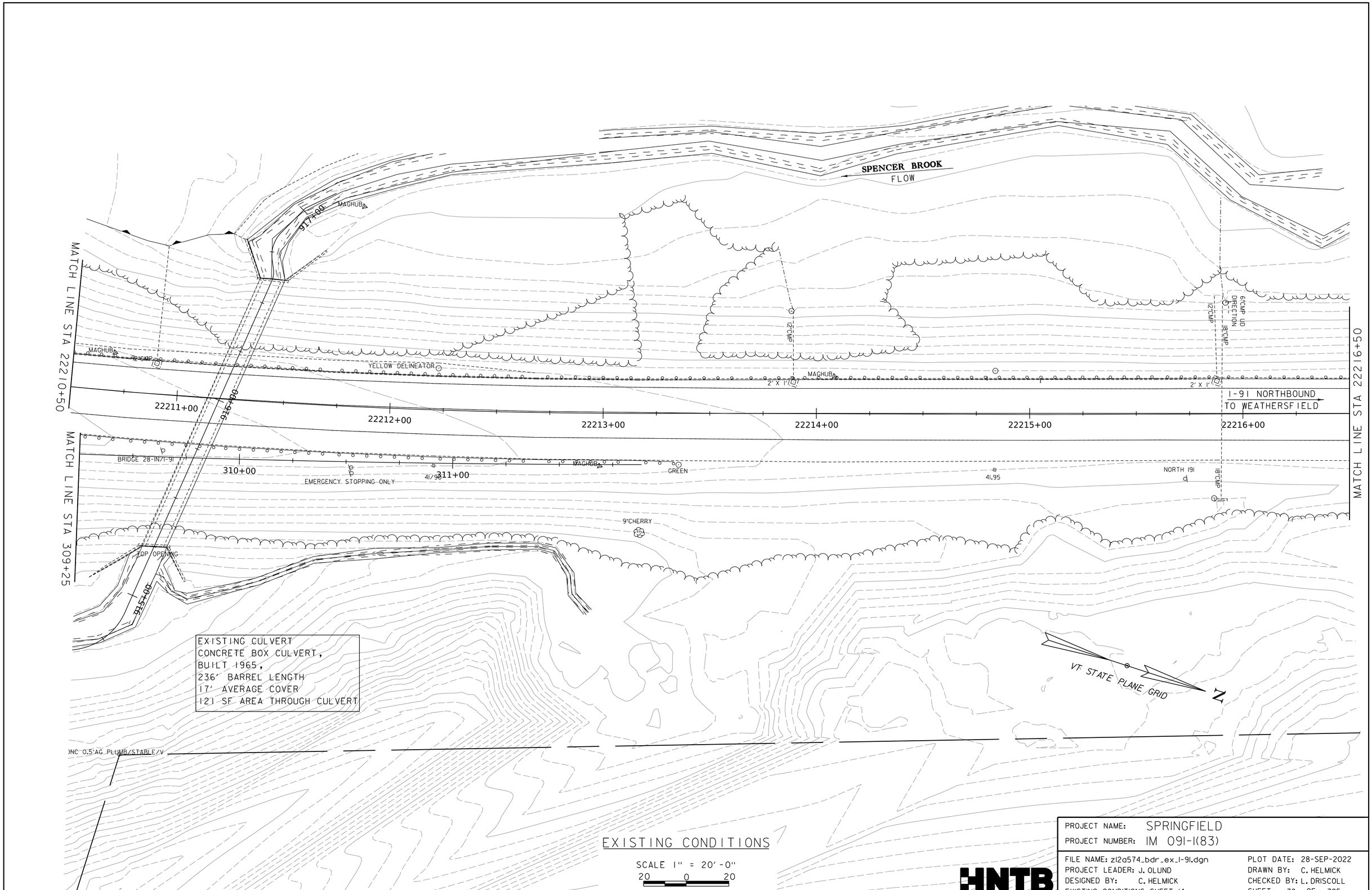
SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

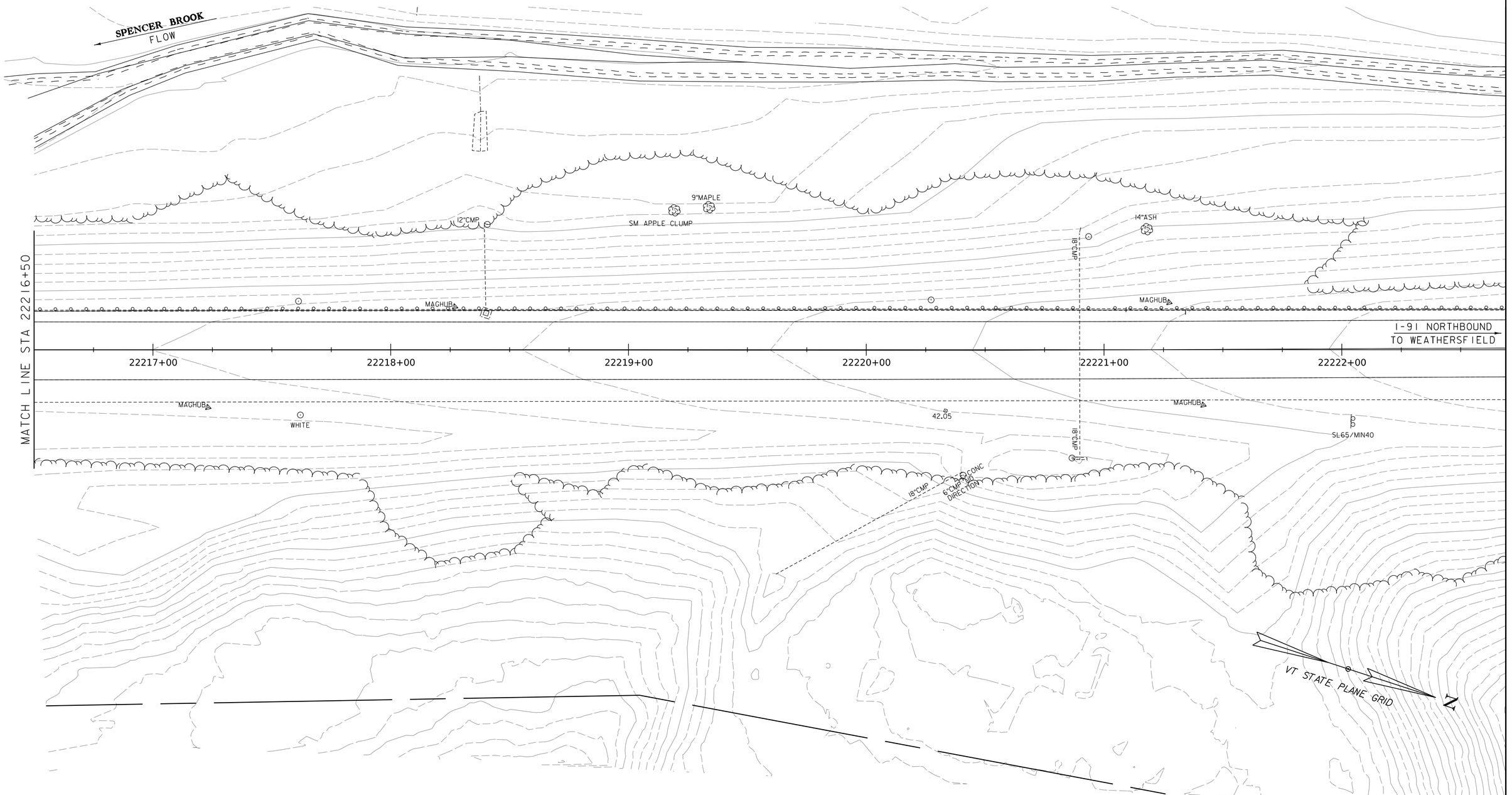
FILE NAME: zl2a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 13	SHEET 37 OF 395



PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574_bdr_ex_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
EXISTING CONDITIONS SHEET 14

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 38 OF 395



EXISTING CONDITIONS

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_ex_1-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 15	SHEET 39 OF 395

N

VT STATE PLANE GRID

AER E&T

AER E&T

AER E&T

AER E&T

AER E&T

KEEP RT

405+00

YIELD

3'TALL WHITE TRIANGLES(6)

404+00

INTERSTATE RESTRICTIONS

7E/0060/A 0154

403+00

I-91 ON RAMP
TO I-91 SOUTHBOUND

18"RCP

18"CMP
DIRECTION

402+00

BEVELED

NO LEFT TURN

WHITE DELINEATOR

STA 400+75

401+00

MATCH LINE STA 12198+75

41/65

LANE MERGE

12198+00

I-91 SOUTHBOUND
TO ROCKINGHAM

12197+00

12196+00

12195+00

YELLOW DELINEATOR

18"CMP

YELLOW DELINEATOR

ONE WAY

5/8"REBAR VSE CONTROL CAP

STA 12194+50

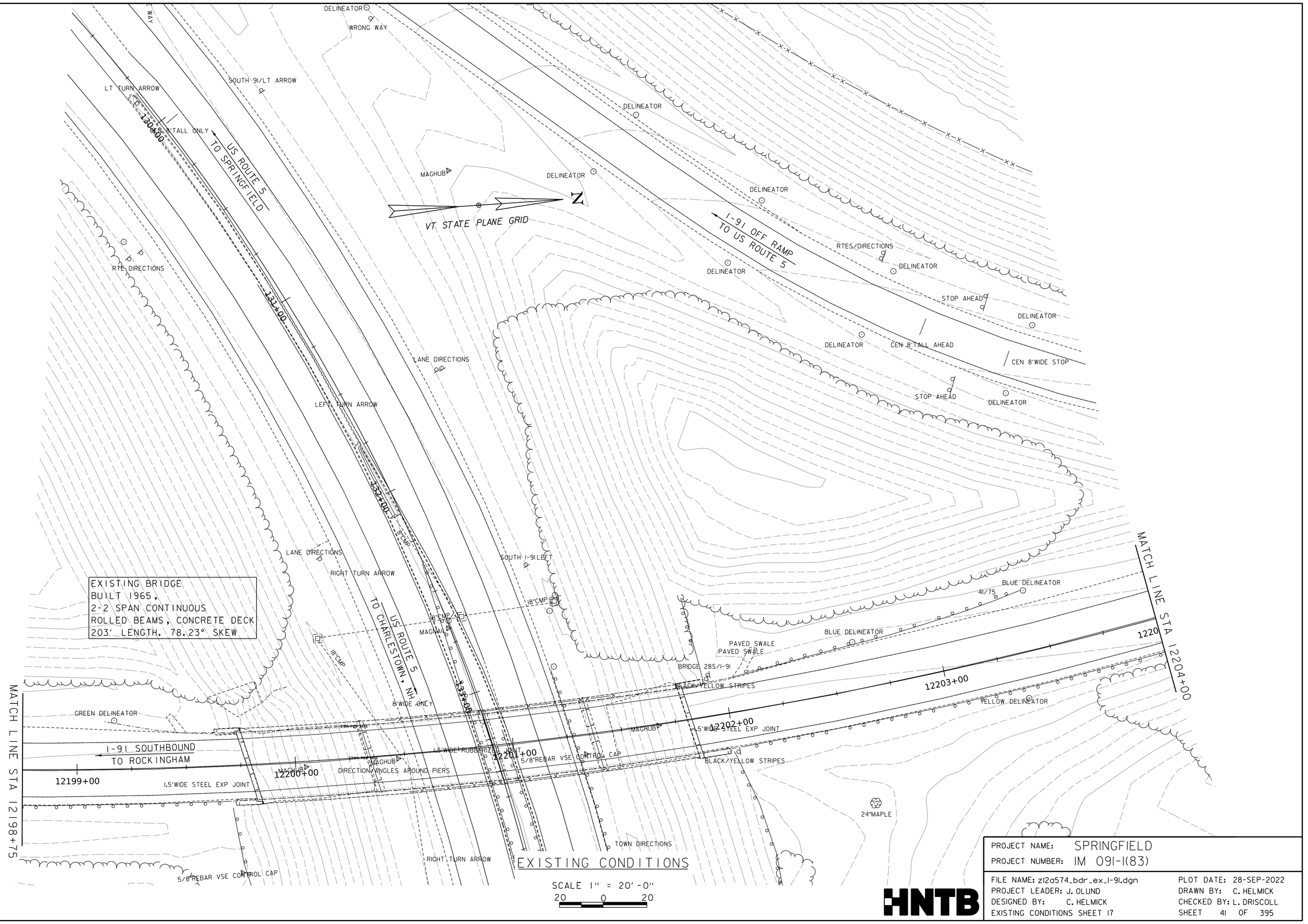
EXISTING CONDITIONS

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_ex_1-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 16	SHEET 40 OF 395



EXISTING CONDITIONS

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 17	SHEET 41 OF 395

HNTB

VT STATE PLANE GRID

N

2"PINE

I-91 OFF RAMP
TO US ROUTE 5

DELINEATOR

WHITE DELINEATOR

RAMP 40MPH/WRONG WAY

RAMP B/O 243+11.828

WHITE DELINEATOR

MATCH LINE STA 12209+50

MAGHUB

12"CMP

BEVELED

EXIT 7

9 YELLOW REFLECTORS

BRDG/FREEZE BEFORE RD

SOLID WHITE

BEGIN SOLID WHITE

12209+00

12208+00

1'WIDE WHITE

12207+00

I-91 SOUTHBOUND
TO ROCKINGHAM

12206+00

YELLOW DELINEATOR

WRONG WAY

12205+00

4+00

YELLOW DELINEATOR

5/8"REBAR W/SE CONTROL CAP

MAGNAIL

MATCH LINE STA 12204+00

EXISTING CONDITIONS

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_ex_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 18	SHEET 42 OF 395

VT STATE PLANE GRID

N

MATCH LINE STA 12209+50

WHITE DELINEATOR

WHITE DELINEATOR

ROUTE DIRECTIONS

WHITE

GREEN

WHITE

41.95

DASHED WHITE

I-91 SOUTHBOUND
TO ROCKINGHAM

12210+00

12211+00

12212+00

12213+00

12214+00

12215+00

YELLOW DELINEATOR

18"CMP

18"CMP

18"CMP

18"CMP

MAGHUB

MAGHUB

MATCH LINE STA 12215+30

SPENCER BROOK
FLOW

EXISTING CONDITIONS

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574_bdr_ex_1-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 19	SHEET 43 OF 395

VT STATE PLANE GRID

N

MATCH LINE STA 12215+30

I-91 SOUTHBOUND
TO ROCKINGHAM

42.0 B

42.05 B

BLUE

BLUE

YELLOW

MAGHUB

YELLOW

24"RCP

24"CMP

24"CMP

24"CMP THIS END

12216+00

12217+00

12218+00

12219+00

12220+00

12221+00

EXISTING CONDITIONS

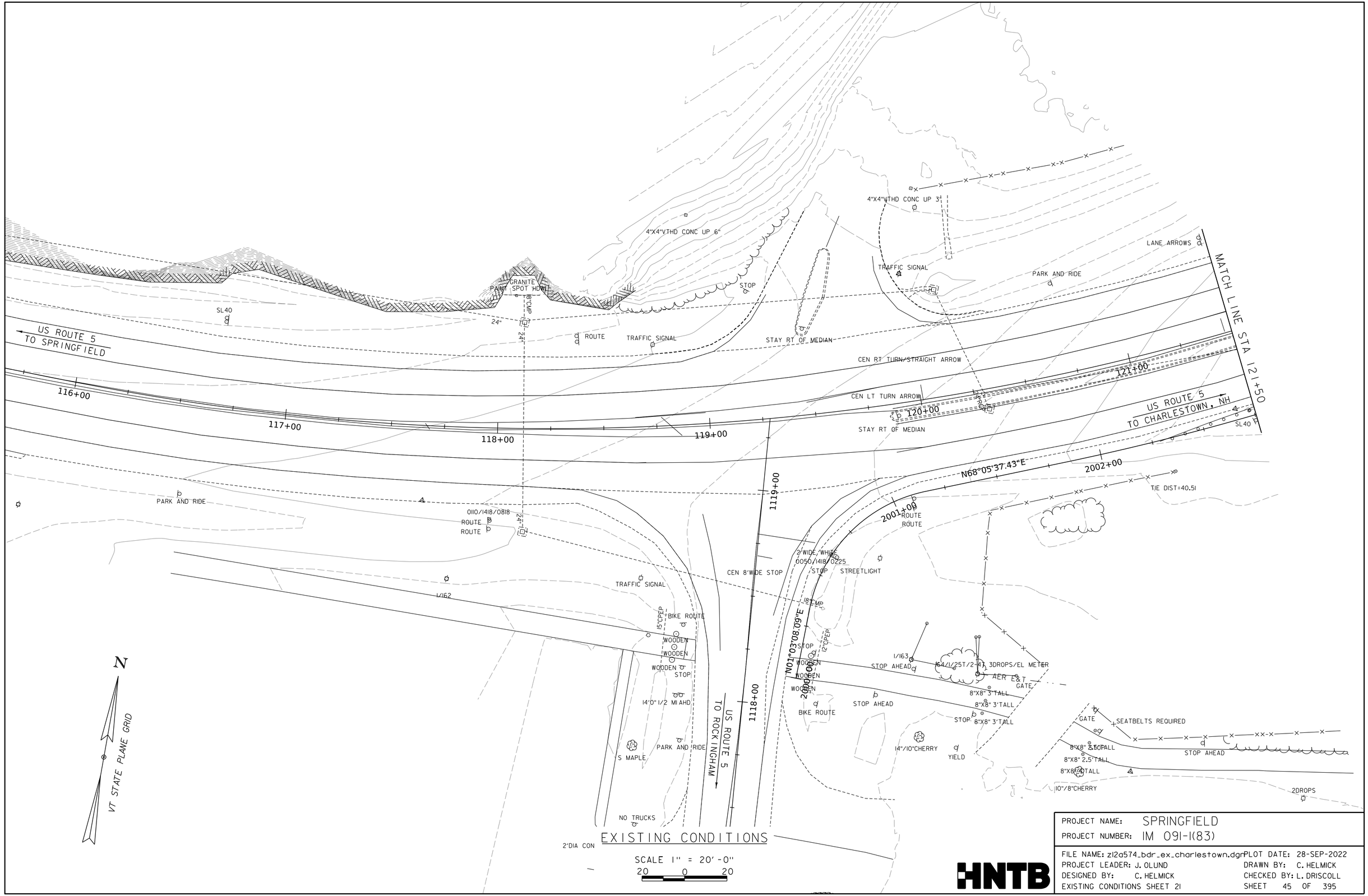
SCALE 1" = 20'-0"

20 0 20

HNTB

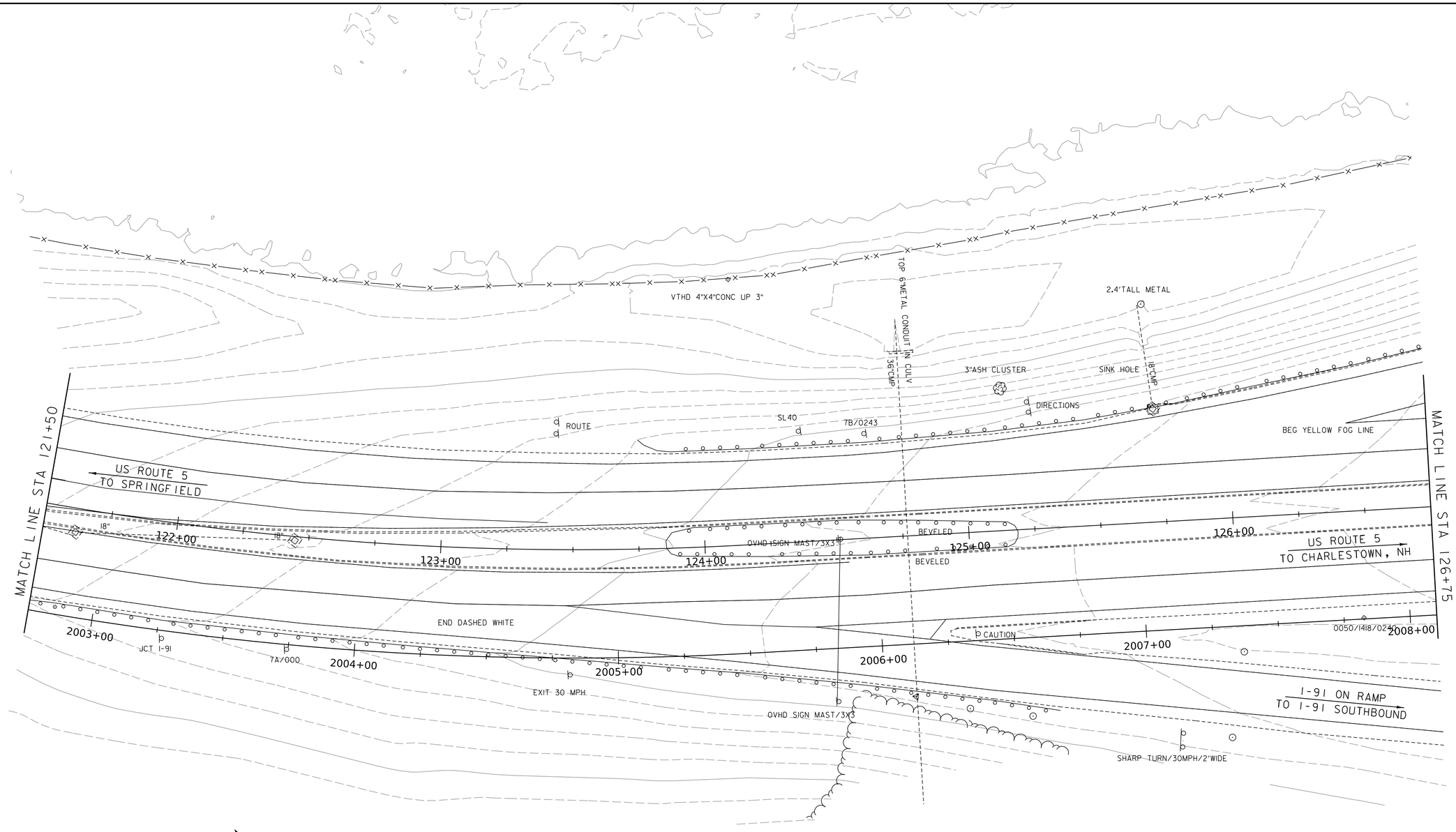
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574_bdr_ex_1-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 20	SHEET 44 OF 395



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ex_charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 21	SHEET 45 OF 395

HNTB



EXISTING CONDITIONS

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ex_charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 22	SHEET 46 OF 395

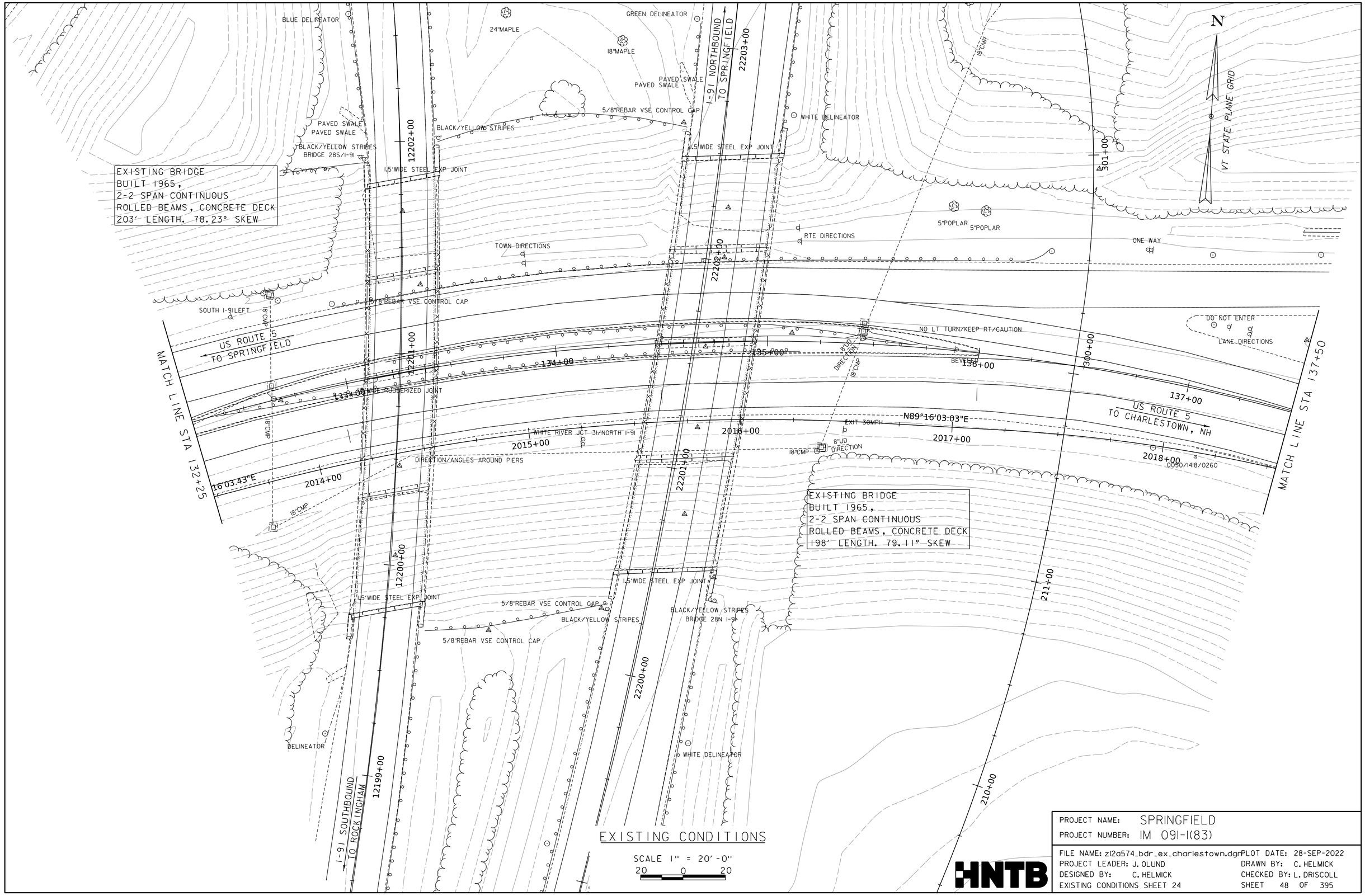
4X4 CONC 0.8'AG VHD
UNDERBANK EROSION
2'TALL METAL
18"RCP
O.I'DIA 4'AG METAL
YIELD AHEAD
DELINEATOR
DIRECTIONS/WRONG WAY
WRONG WAY
CAUTION
RTE DIRECTIONS
DO NOT ENTER/ YIELD/ONE WAY
I-91 OFF RAMP
TO US ROUTE 5
CEN OF 4/3'TALL TRIANGLES
MERGING LANE
2.3'TALL METAL
DO NOT ENTER/ONE WAY
STOP/DO NOT ENTER/ONE WAY
SOUTH 91/LT ARROW
LANE DIRECTIONS
BEG I'WIDE WHITE
US ROUTE 5
TO SPRINGFIELD
NO LT/KEEP RT
LT TURN ARROW
YELLOW FOG LINE
KEEP RT
MATCH LINE STA 126+75
MATCH LINE STA 132+25
127+00
128+00
129+00
130+00
131+00
132+00
406+00
N50°20'15.80"E
2009+00
2010+00
2011+00
2012+00
2013+00
SOUTH I-91
THRU TRAFFIC KEEP LEFT
18"CMP
US ROUTE 5
TO CHARLESTOWN, NH
N71°
SOLID YELLOW
GRANITE BLOCK
18"RCP
LANE DIRECTIONS/2'WIDE
DIRECTION
I-91 ON RAMP
TO I-91 SOUTHBOUND
405+00
YIELD
3'TALL WHITE TRIANGLES(6)
4+00
GREEN
N
VT STATE PLANE GRID

EXISTING CONDITIONS

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

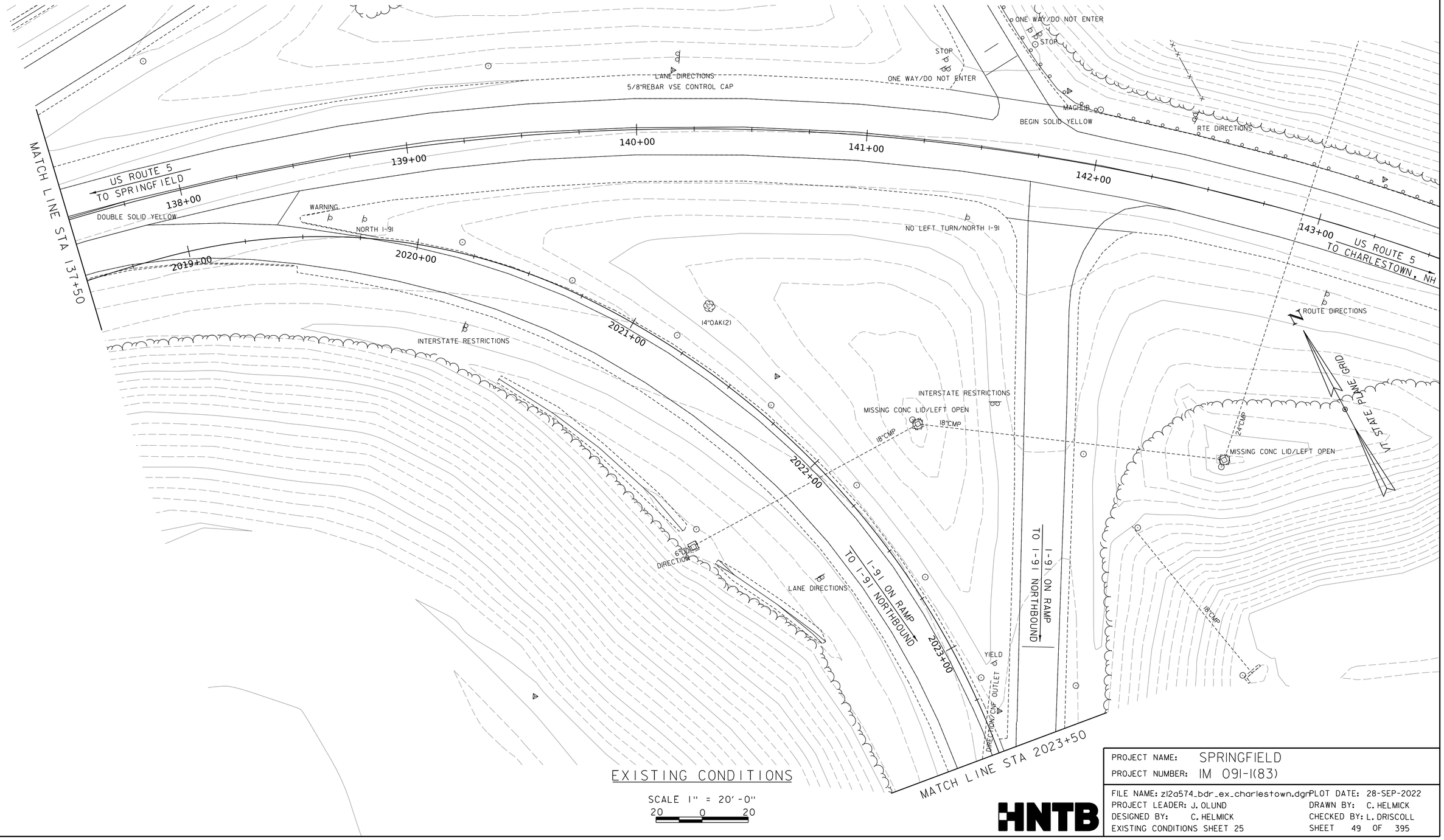
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ex_charlestown.dgr	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 23	SHEET 47 OF 395



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574_bdr_ex_charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 24	SHEET 48 OF 395

HNTB



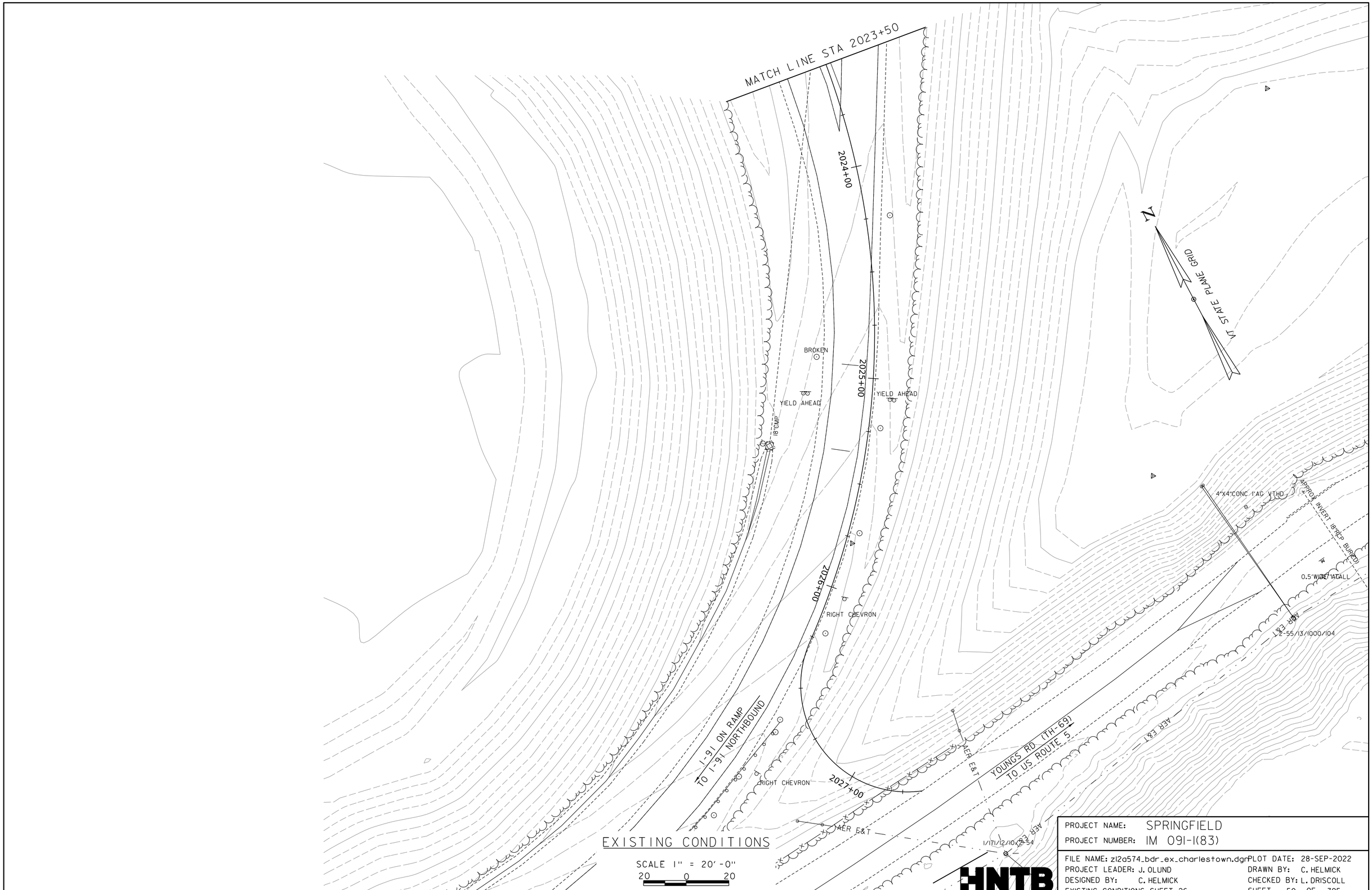
EXISTING CONDITIONS

SCALE 1" = 20'-0"

20 0 20

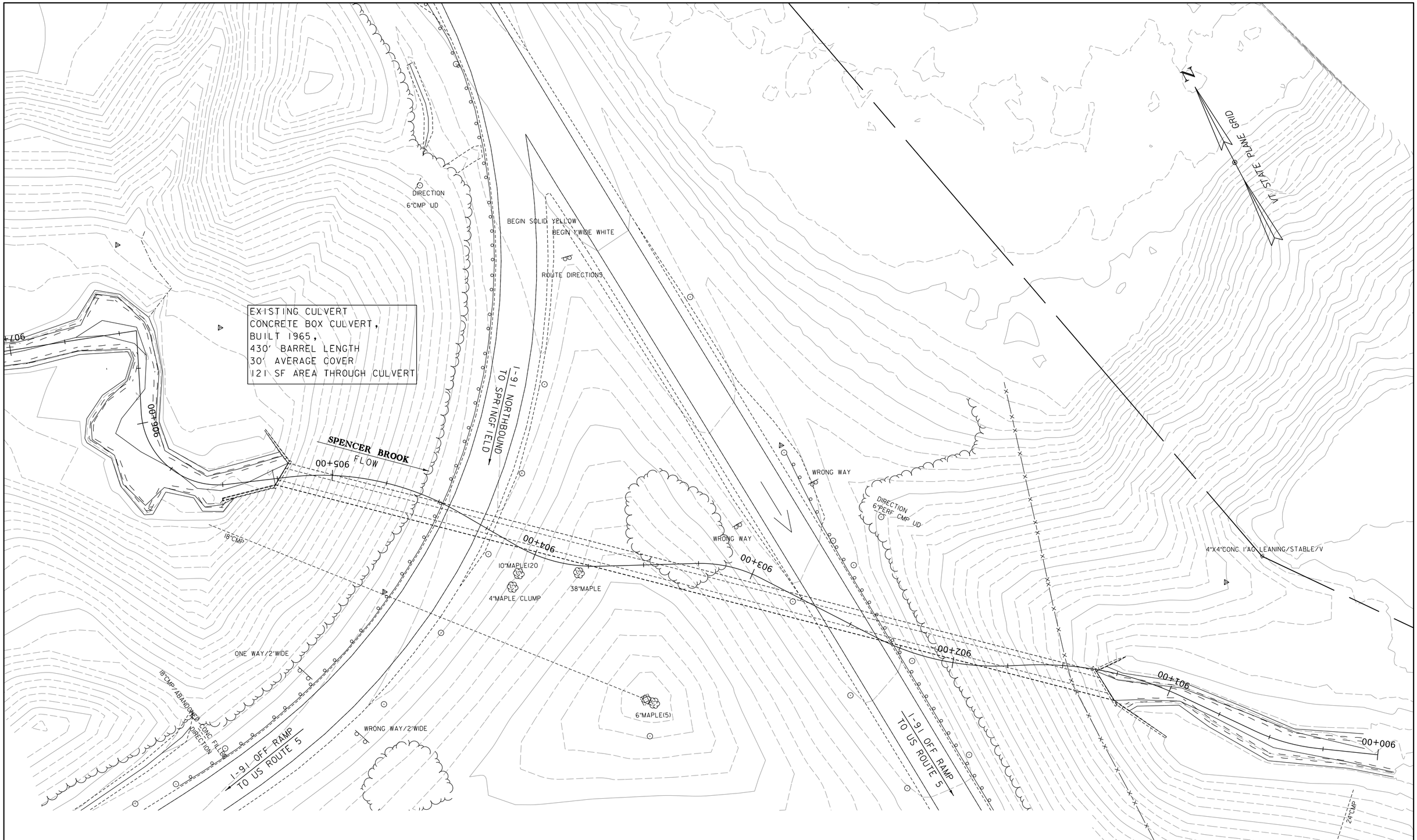
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574_bdr_ex_charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 25	SHEET 49 OF 395



PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574_bdr_ex_charlestown.dgn PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 26 SHEET 50 OF 395



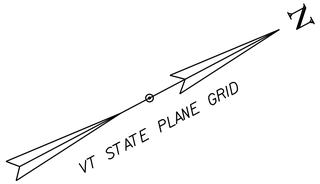
EXISTING CONDITIONS

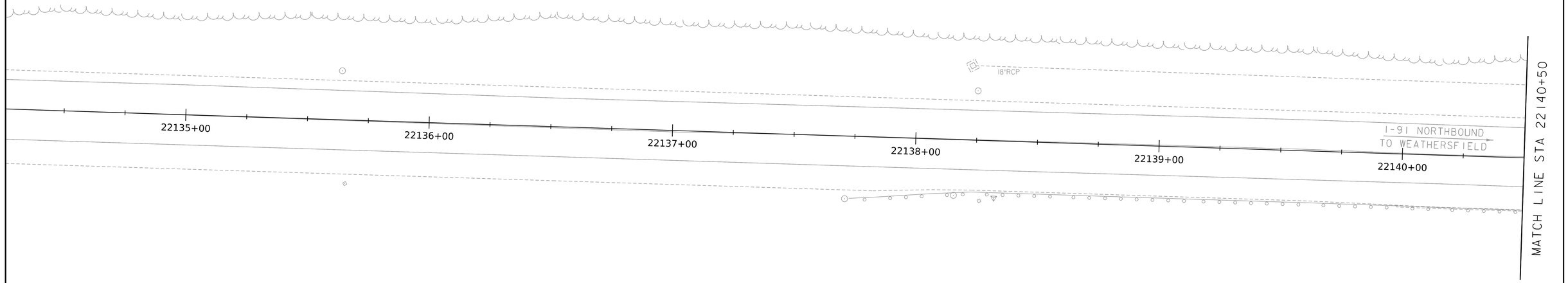
SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_ex_charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EXISTING CONDITIONS SHEET 27	SHEET 51 OF 395





LAYOUT SHEET

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 1	SHEET 52 OF 395

MATCH LINE STA 12140+25

I-91 SOUTHBOUND
TO ROCKINGHAM

24"CMP

12141+00

12142+00

12143+00

12144+00

12145+00

12146+00

MATCH LINE STA 12146+25

24"RCP

VT STATE PLANE GRID

N

MATCH LINE STA 22140+50

36"CMP

6"UD

42"CMP

LIMIT OF WORK
STA. 22143+00.00

TEMPORARY
CONSTRUCTION LIMITS

22141+00

22142+00

22143+00

22144+00

22145+00

22146+00

24"RCP

8"ASH

I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 22146+25

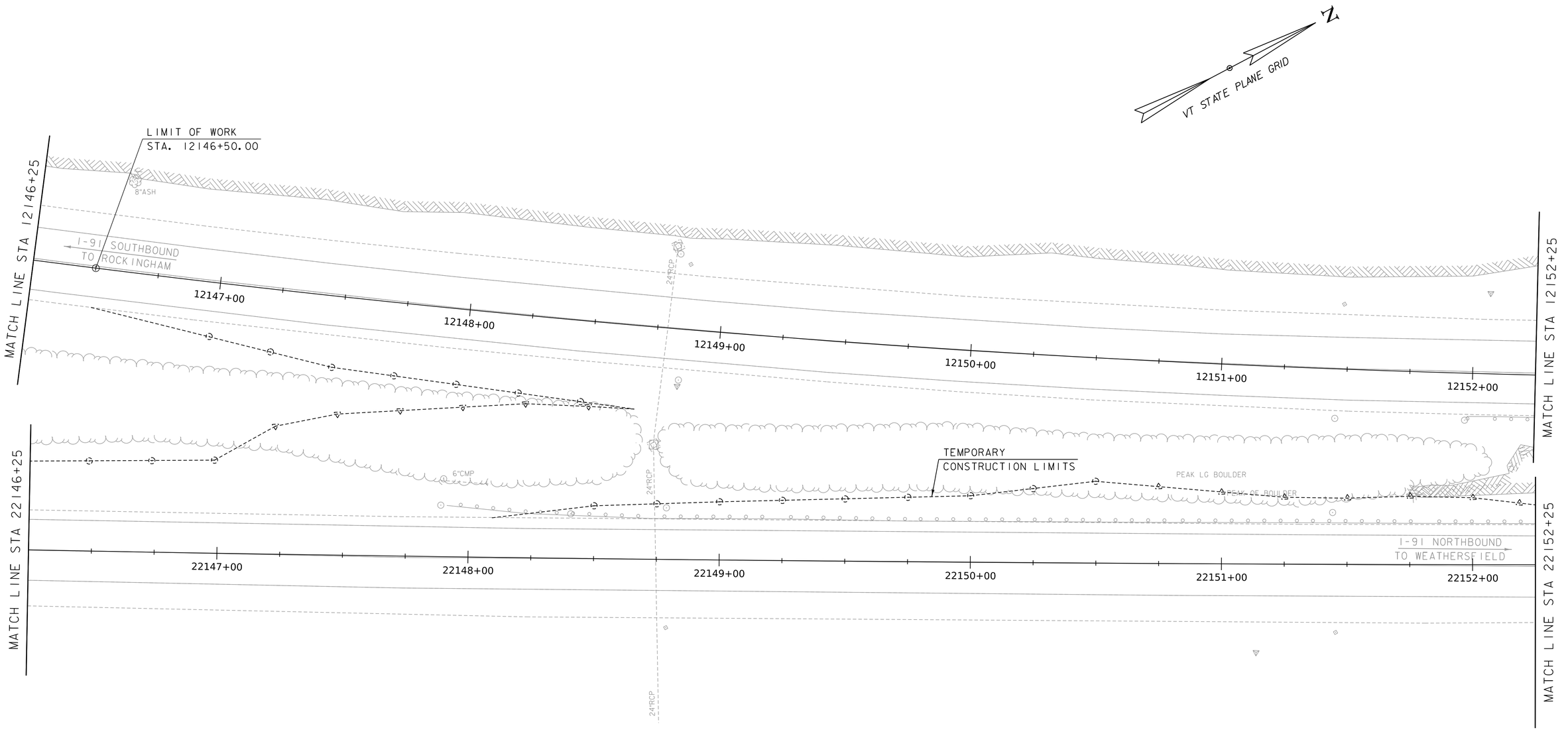
LAYOUT SHEET

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574_bdr_1-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 2	SHEET 53 OF 395



LAYOUT SHEET

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 3	SHEET 54 OF 395

N

VT STATE PLANE GRID

MATCH LINE STA 12152+25

MATCH LINE STA 12158+25

I-91 SOUTHBOUND
TO ROCKINGHAM

12153+00 12154+00 12155+00 12156+00 12157+00 12158+00

TEMPORARY
CONSTRUCTION LIMITS

24"RCP

8"ASH

6"PINE(2)

4"POPLAR(2)

4"POPLAR

BIRCH CLUMP

5"POPLAR

5"BIRCH

8"POPLAR

4"POPLAR

BEGIN NORTHBOUND APPROACH
STA. 22157+25.00
MATCH EXISTING

24"RCP

30"CMP

AER E&T

I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 22152+25

MATCH LINE STA 22158+25

22153+00 22154+00 22155+00 22156+00 22157+00 22158+00

18"CMP

12"CMP

LOW WIRE

AER E&T

187/235/11

LAYOUT SHEET

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 4	SHEET 55 OF 395

HNTB

N

VT STATE PLANE GRID

EXISTING BRIDGE
BUILT 1965,
CONTINUOUS 3-SPAN ROLLED BEAM,
CONCRETE DECK
205' LENGTH. 45° SKEW

MATCH LINE STA 12158+25

BEGIN SOUTHBOUND PROJECT
STA. 12159+25.00

BEGIN SOUTHBOUND APPROACH
STA. 12159+00.00
MATCH EXISTING

I-91 SOUTHBOUND
TO ROCKINGHAM

BEGIN BRIDGE 25S
STA. 12160+45.17

10"ASH

LEDGE OUTCROP

US ROUTE 5
TO SPRINGFIELD

18"CMP

STOP SOUTHBOUND APPROACH
STA. 12164+00.00
MATCH EXISTING

STOP SOUTHBOUND PROJECT
STA. 12163+25.00

12159+00 12160+00 12161+00 12162+00 12163+00 12164+00

1091+00 1090+00 1089+00

45° (TYP)

DRAINAGE OPENING
CONC COVER

18"RCP 24"RCP 18"CMP

END BRIDGE 25S
STA. 12162+51.83

END BRIDGE 25N
STA. 22161+88.08

MATCH LINE STA 12164+25

MATCH LINE STA 22158+25

BEGIN NORTHBOUND PROJECT
STA. 22158+50.00

22159+00 22160+00 22161+00 22162+00 22163+00 22164+00

I-91 NORTHBOUND
TO WEATHERSFIELD

1088+00

BEGIN BRIDGE 25N
STA. 22159+61.42

EXISTING BRIDGE
BUILT 1965,
CONTINUOUS 3-SPAN ROLLED BEAM,
CONCRETE DECK
225' LENGTH. 45° SKEW

24"RCP

STOP NORTHBOUND APPROACH
STA. 22163+50.00
MATCH EXISTING

STOP NORTHBOUND PROJECT
STA. 22162+50.00

1087+00

US ROUTE 5
TO ROCKINGHAM

30"CMP

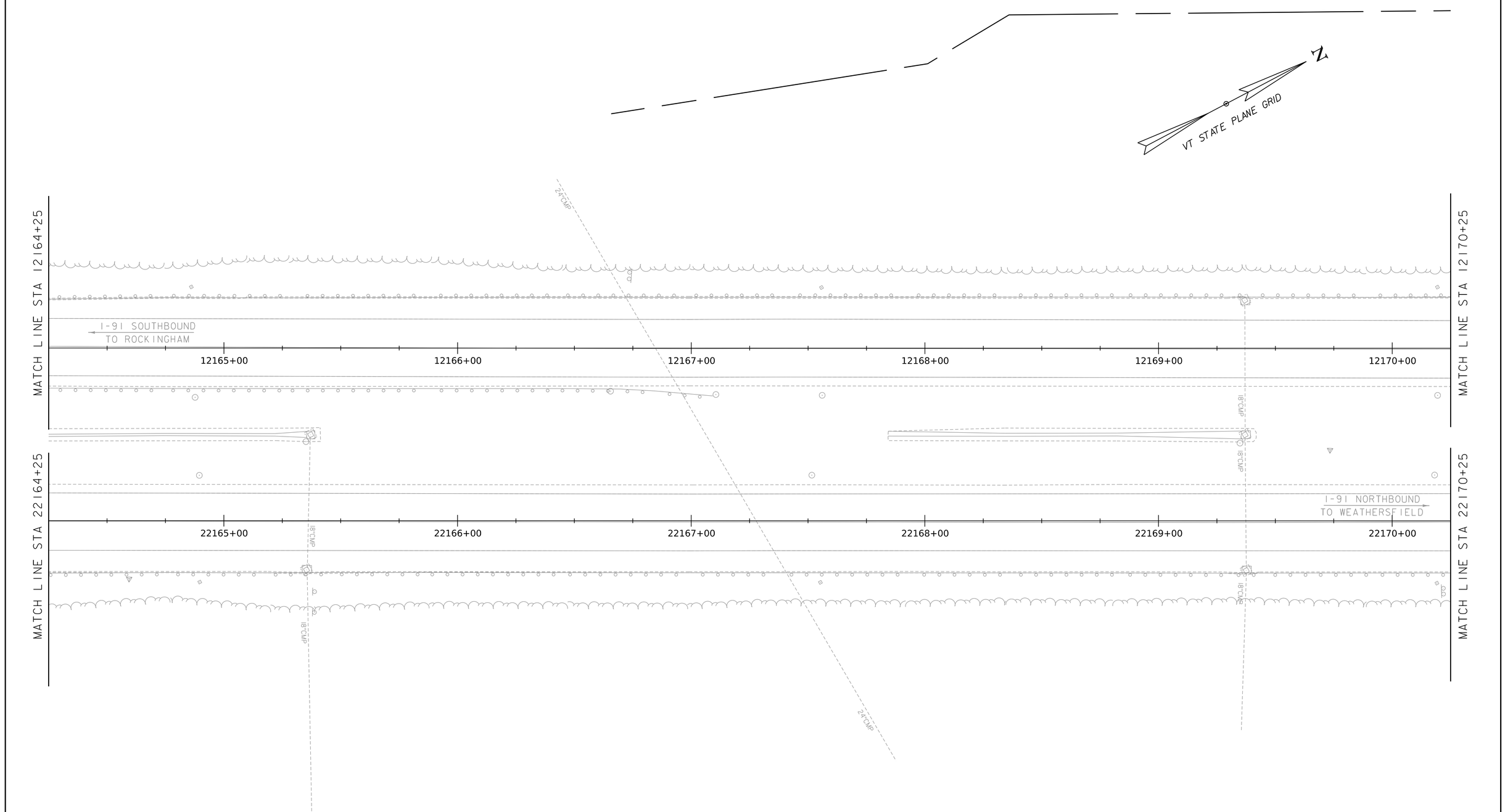
1086+00

LAYOUT SHEET

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 5	SHEET 56 OF 395

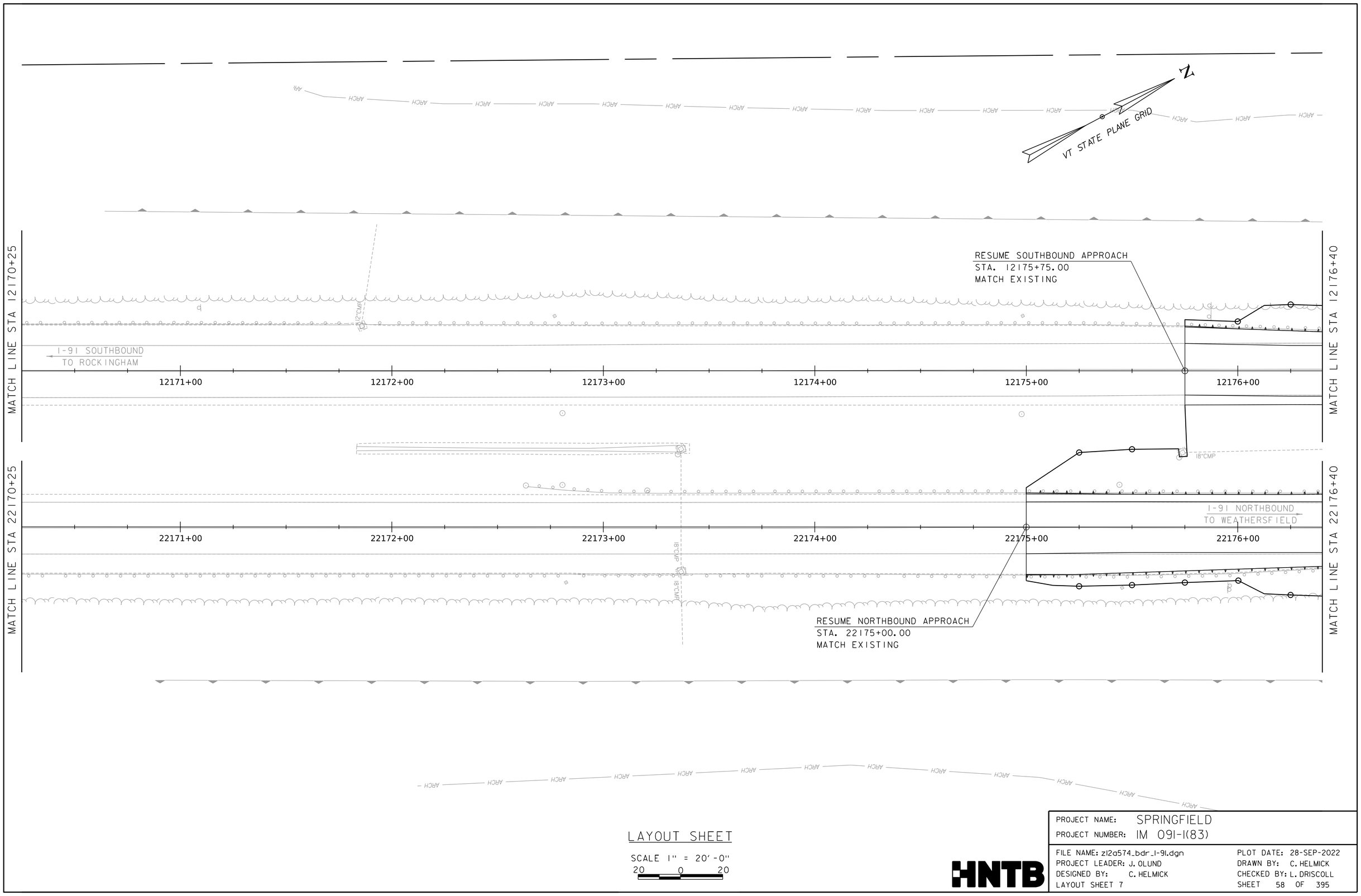


LAYOUT SHEET

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 6	SHEET 57 OF 395



LAYOUT SHEET

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 7	SHEET 58 OF 395

N

VT STATE PLANE GRID

EXISTING BRIDGE
BUILT 1965,
3 SPAN PLATER GIRDER, CONCRETE DECK,
WITH 90' SUSPENDED CENTER SEGMENT
310' LENGTH. 0° SKEW

BLACK RIVER
FLOW

800+00
801+00
802+00
803+00
804+00

MATCH LINE STA 12176+40

MATCH LINE STA 12182+50

RESUME SOUTHBOUND PROJECT
STA. 12176+75.00

STONE FILL (TYP.),
(SEE REVIEWER NOTE SHEET 2)

90° (TYP)

END BRIDGE 26S
STA. 12180+41.58

STOP SOUTHBOUND PROJECT
STA. 12181+00.00

I-91 SOUTHBOUND
TO ROCKINGHAM

12177+00 12178+00 12179+00 12180+00 12181+00 12182+00

BEGIN BRIDGE 26S
STA. 12177+29.92

TEMPORARY
CONSTRUCTION LIMITS

18"CMP

DIRECTION FOR BOTH

END BRIDGE 26N
STA. 22180+41.58

STOP NORTHBOUND PROJECT
STA. 22181+00.00

I-91 NORTHBOUND
TO WEATHERSFIELD

22177+00 22178+00 22179+00 22180+00 22181+00 22182+00

BEGIN BRIDGE 26N
STA. 22177+29.92

RESUME NORTHBOUND PROJECT
STA. 22176+75.00

EXISTING BRIDGE
BUILT 1965,
3 SPAN PLATER GIRDER, CONCRETE DECK,
WITH 90' SUSPENDED CENTER SEGMENT
310' LENGTH. 0° SKEW

ARCH

LAYOUT SHEET

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

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574_bdr_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
LAYOUT SHEET 8

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 59 OF 395

ARCH ARCH ARCH ARCH ARCH ARCH ARCH ARCH

N

VT STATE PLANE GRID

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

I-91 SOUTHBOUND
TO ROCKINGHAM

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

8"UD DIRECTION

18" CMP

MATCH LINE STA 22182+50

MATCH LINE STA 22188+60

I-91 NORTHBOUND
TO WEATHERSFIELD

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

ARCH ARCH ARCH ARCH ARCH ARCH

LAYOUT SHEET

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

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574_bdr_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
LAYOUT SHEET 9

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 60 OF 395

4"X4"CONC 0.5'AG PLUMB/STABLE/V

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL AND SEED
MATCH EXISTING GRADES

VT STATE PLANE GRID

EXISTING BRIDGE
BUILT 1965,
1 SPAN ROLLED BEAM,
CONCRETE DECK
72' LENGTH. 20° SKEW

16"CMP DIRECTION

STEEL RET WALL
STEEL RET WALL

UGE

STA 400+75

RESUME SOUTHBOUND PROJECT
STA. 12192+25.00

18"CMP

400+00

18"CMP

STA 12194+50

MATCH LINE STA 12188+60

I-91 SOUTHBOUND
TO ROCKINGHAM

12189+00 12190+00 12191+00 12192+00 12193+00 12194+00

1.5'WIDE RUBBERIZED JOINT

STOP SOUTHBOUND PROJECT
STA. 12194+50.00

EDGE WASHOUT

EDGE WALL/WASHOUT

CHAIN-LINK FN 3'TALL

STA 22194+50

RESUME NORTHBOUND PROJECT
STA. 22192+75.00

1.5'WIDE EXP JOINT

I-91 NORTHBOUND
TO WEATHERSFIELD

22189+00 22190+00 22191+00 22192+00 22193+00 22194+00

MATCH LINE STA 22188+60

STA 204+25

200+00 201+00 202+00 203+00 204+00

EXISTING BRIDGE
BUILT 1965,
1 SPAN ROLLED BEAM,
CONCRETE DECK
72' LENGTH. 20.5° SKEW

18"RCP

4"X4"CONC 0.3'AG PLUMB/STABLE/V

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL AND SEED
MATCH EXISTING GRADES

169/2-52 GRNDR S/A DIRECTION

18"CMP

LAYOUT SHEET

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_1-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 10	SHEET 61 OF 395

STOP NORTHBOUND PROJECT
STA. 22194+75.00

STA 22194+50

22195+00

22196+00

22197+00

22198+00

I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 22199+00

STA 204+25

205+00

206+00

207+00

208+00

209+00

MATCH LINE STA 209+25

2.00 STEEL OVERHEAD SIGN MAST

I-91 ON RAMP
TO I-91 NORTHBOUND

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL AND SEED
MATCH EXISTING GRADES

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL AND SEED
MATCH EXISTING GRADES

N

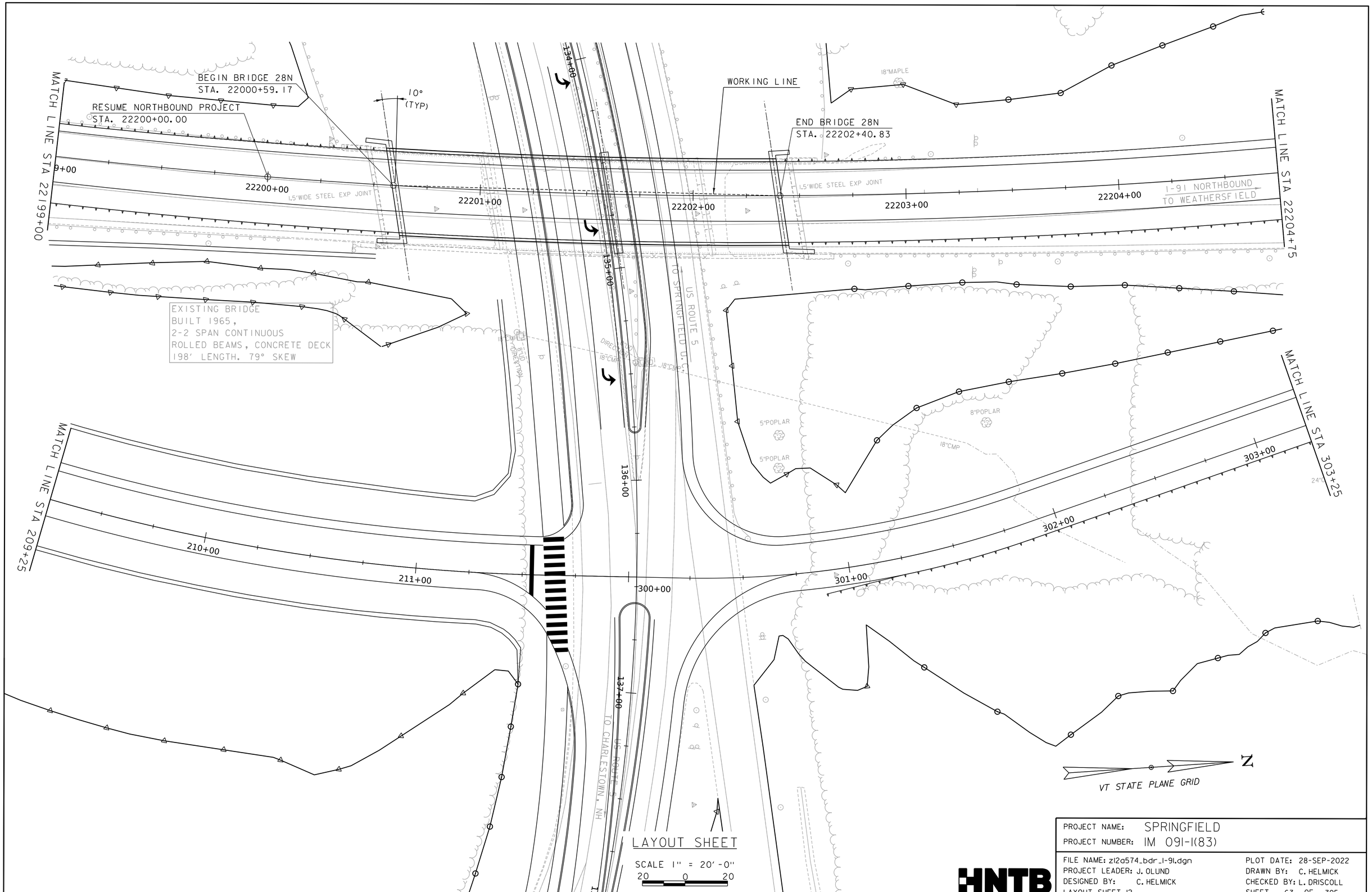
VT STATE PLANE GRID

LAYOUT SHEET

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET II	SHEET 62 OF 395



HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_1-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 12	SHEET 63 OF 395

TEMPORARY
CONSTRUCTION LIMITS

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

END NORTHBOUND PROJECT
STA. 22208+50.00

I-91 NORTHBOUND
TO WEATHERSFIELD

22205+00
22206+00
22207+00
22208+00
22209+00
22210+00

MATCH LINE STA 303+25

MATCH LINE STA 309+25

304+00
305+00
306+00
307+00
308+00
309+00

EXISTING CULVERT
CONCRETE BOX CULVERT,
BUILT 1965,
235' BARREL LENGTH
30' AVERAGE COVER
121 SF AREA THROUGH CULVERT

SPENCER BROOK
FLOW

910+00
911+00
912+00
913+00
914+00

18"CMP

CONECPTUAL SPENCER
BROOK ALIGNMENT

ORANGE SEEP

909+00

I-91 OFF RAMP
TO US ROUTE 5

6'UD

DIRECTION

I'TALL OPENING

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL AND SEED
MATCH EXISTING GRADES

VT STATE PLANE GRID

N

LAYOUT SHEET

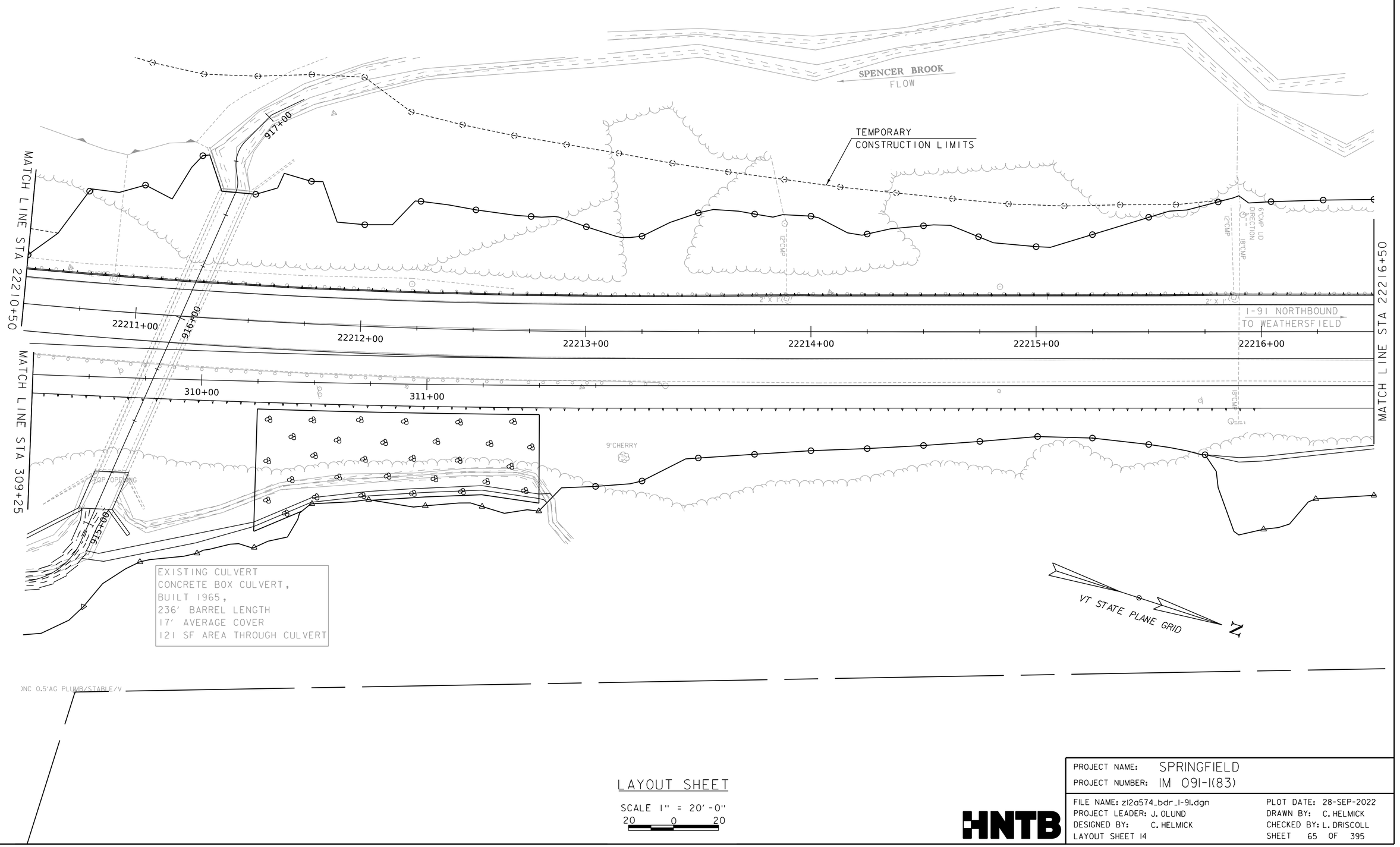
SCALE 1" = 20'-0"
20 0 20

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574_bdr_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
LAYOUT SHEET 13

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 64 OF 395

HNTB

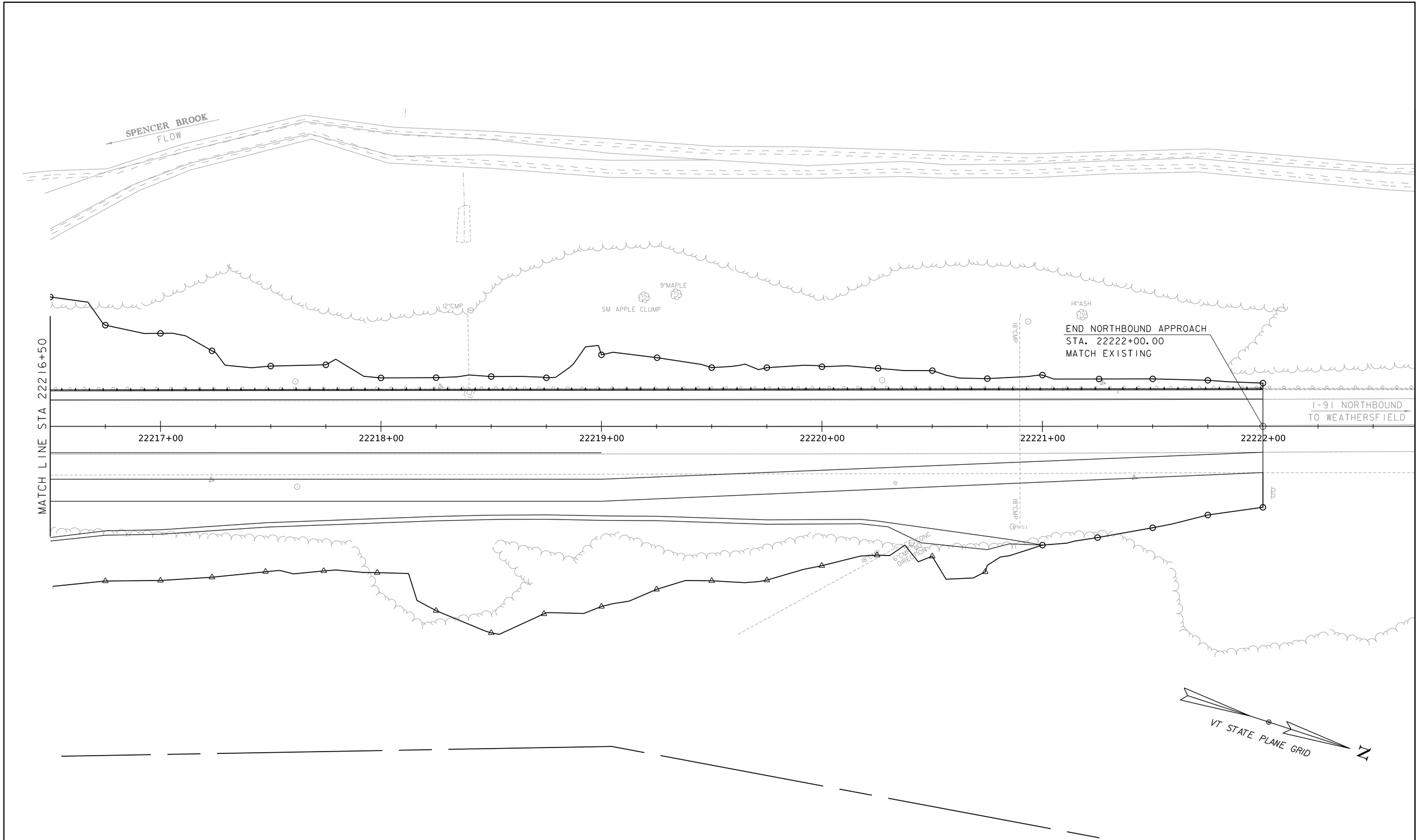


LAYOUT SHEET

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_1-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 14	SHEET 65 OF 395



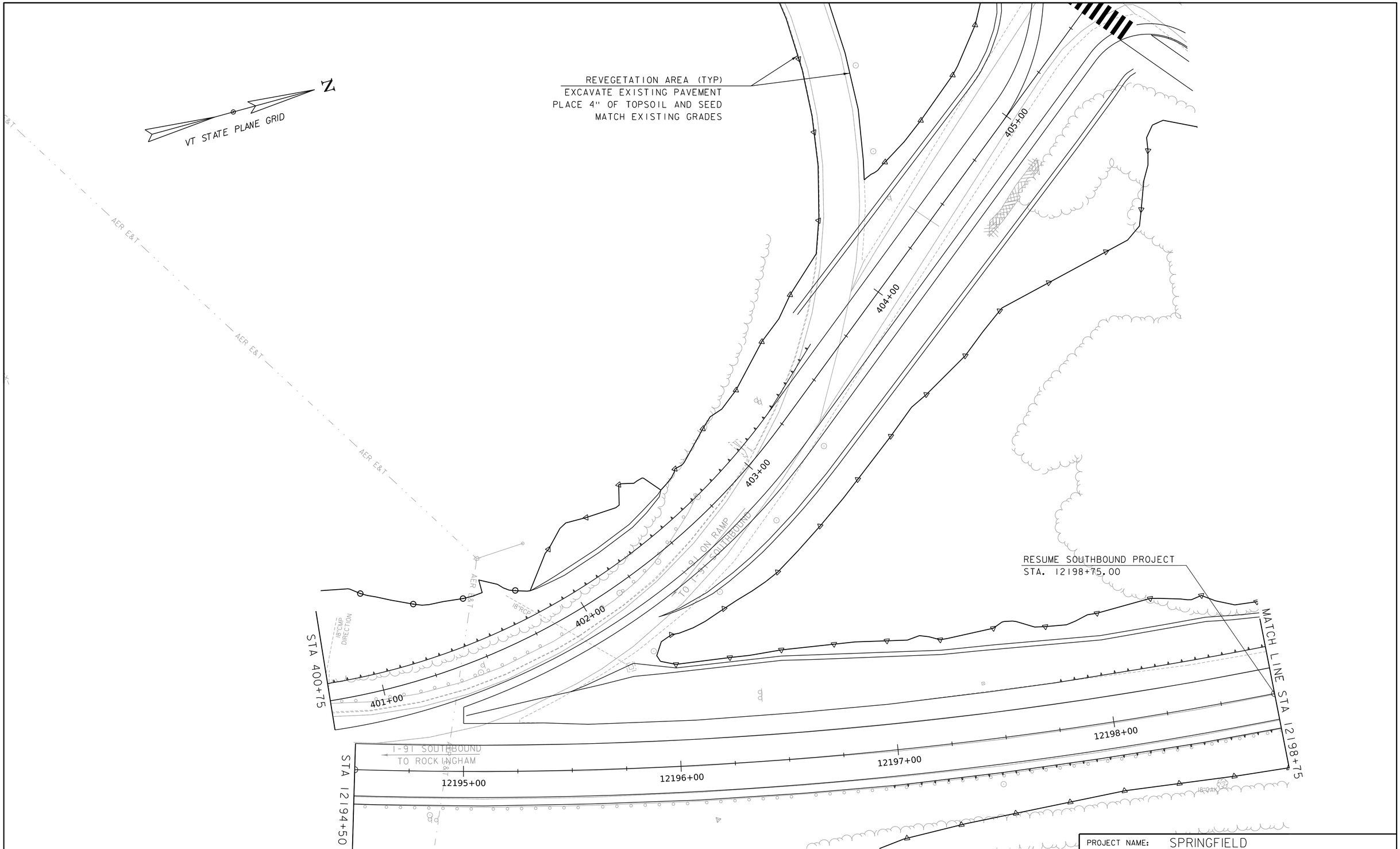
LAYOUT SHEET

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 15	SHEET 66 OF 395



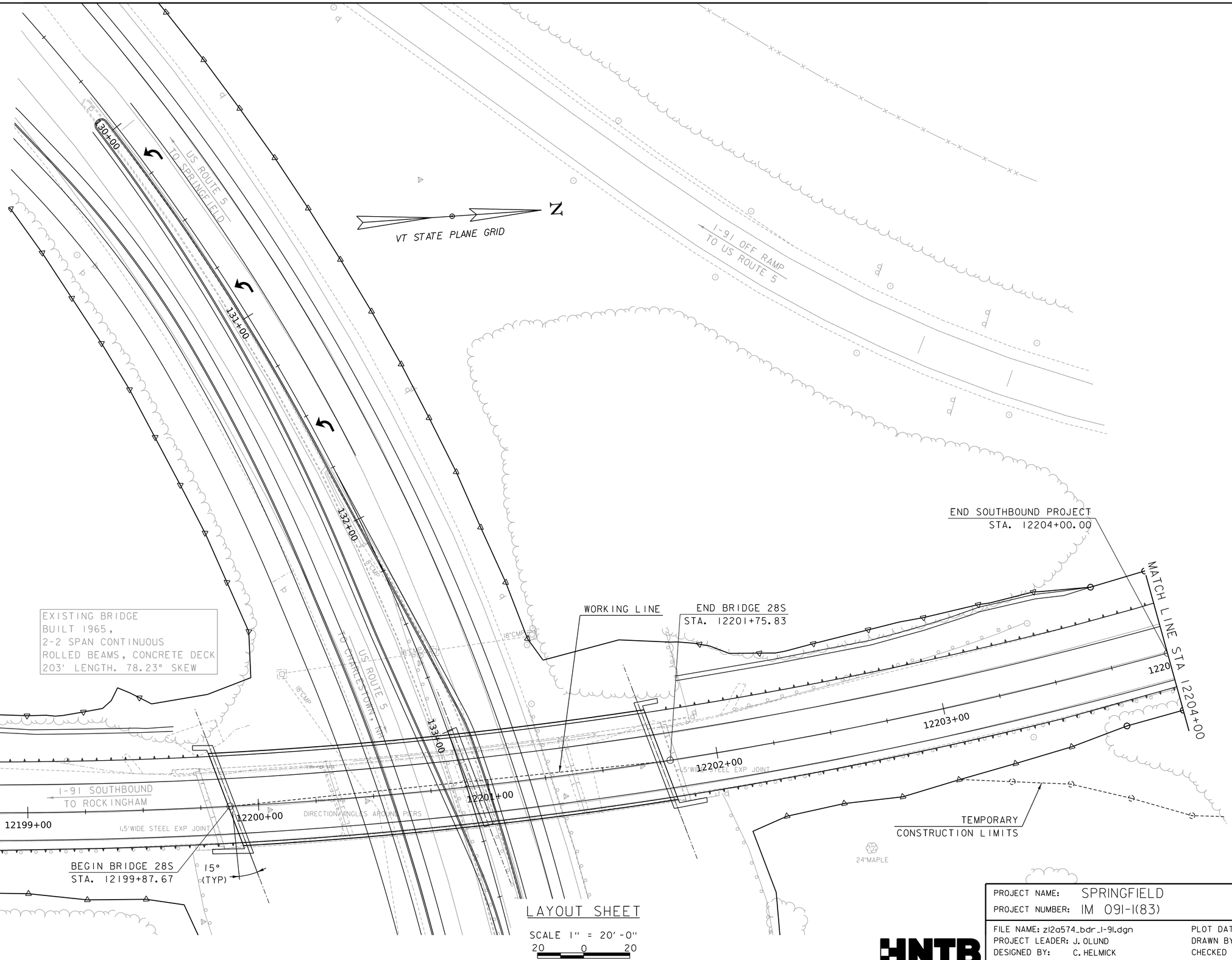
LAYOUT SHEET

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 16	SHEET 67 OF 395



LAYOUT SHEET

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574_bdr_1-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 17	SHEET 68 OF 395

VT STATE PLANE GRID

N

2"PINE

I-91 OFF RAMP
TO US ROUTE 5

BEVELED

12"CMP

I-91 SOUTHBOUND
TO ROCKINGHAM

END SOUTHBOUND APPROACH
STA. 12205+50.00
MATCH EXISTING

MATCH LINE STA 12204+00

4+00

12205+00

12206+00

12207+00

12208+00

12209+00

MATCH LINE STA 12209+50

TEMPORARY
CONSTRUCTION LIMITS

LAYOUT SHEET

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574_bdr_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 18	SHEET 69 OF 395

VT STATE PLANE GRID

N

MATCH LINE STA 12209+50

I-91 SOUTHBOUND
TO ROCKINGHAM

12210+00

12211+00

12212+00

12213+00

12214+00

12215+00

MATCH LINE STA 12215+30

12"CMP

18"CMP

TEMPORARY
CONSTRUCTION LIMITS

SPENCER BROOK
FLOW

LAYOUT SHEET

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574_bdr_I-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 19	SHEET 70 OF 395

VT STATE PLANE GRID

N

MATCH LINE STA 12215+30

I-91 SOUTHBOUND
TO ROCKINGHAM

LIMIT OF WORK
STA. 12217+00.00

24"RCP

12216+00

12217+00

12218+00

12219+00

12220+00

12221+00

12"CMP

24"CMP THIS END

TEMPORARY
CONSTRUCTION LIMITS

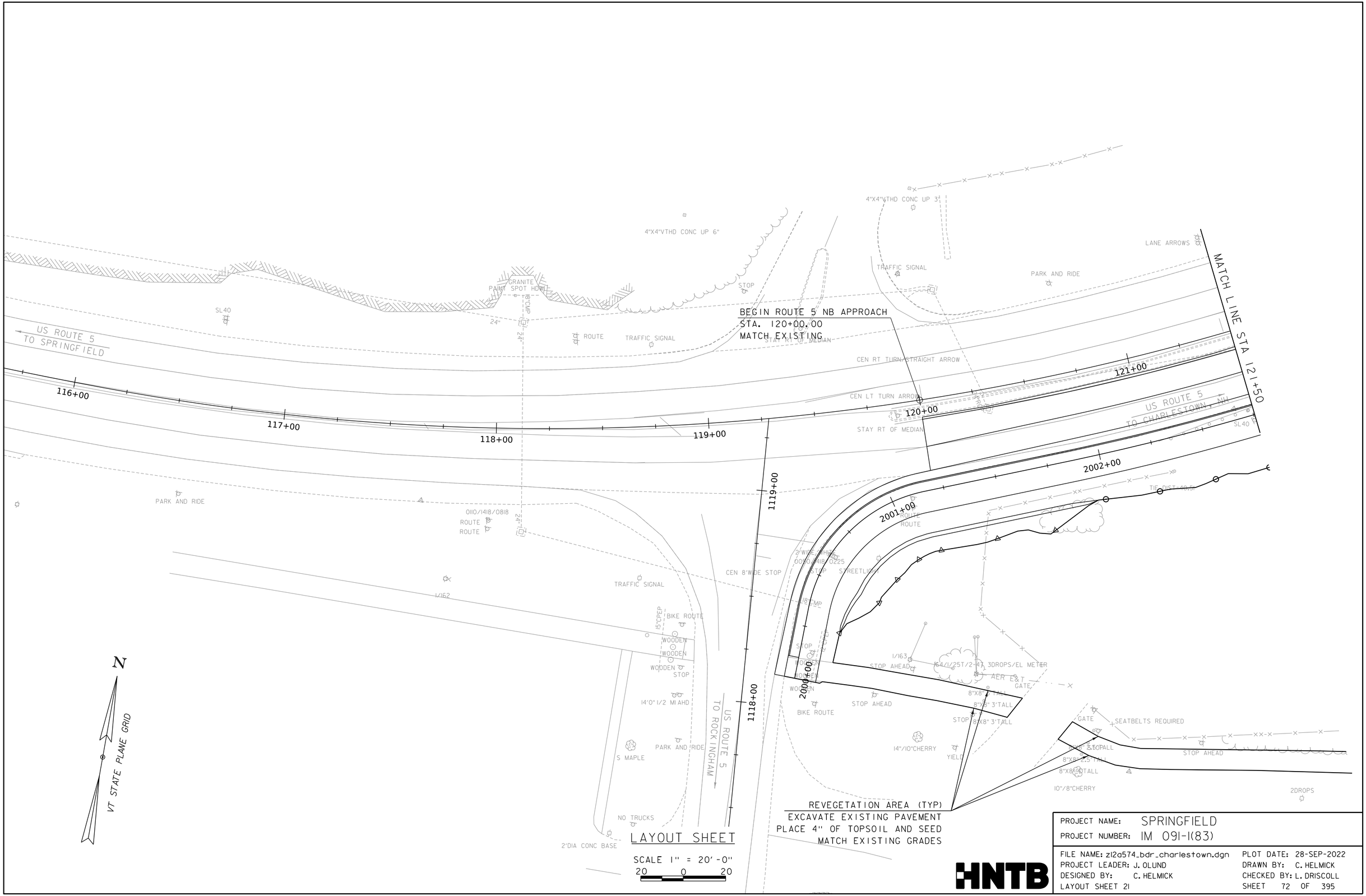
LAYOUT SHEET

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_1-91.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 20	SHEET 71 OF 395



REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL AND SEED
MATCH EXISTING GRADES

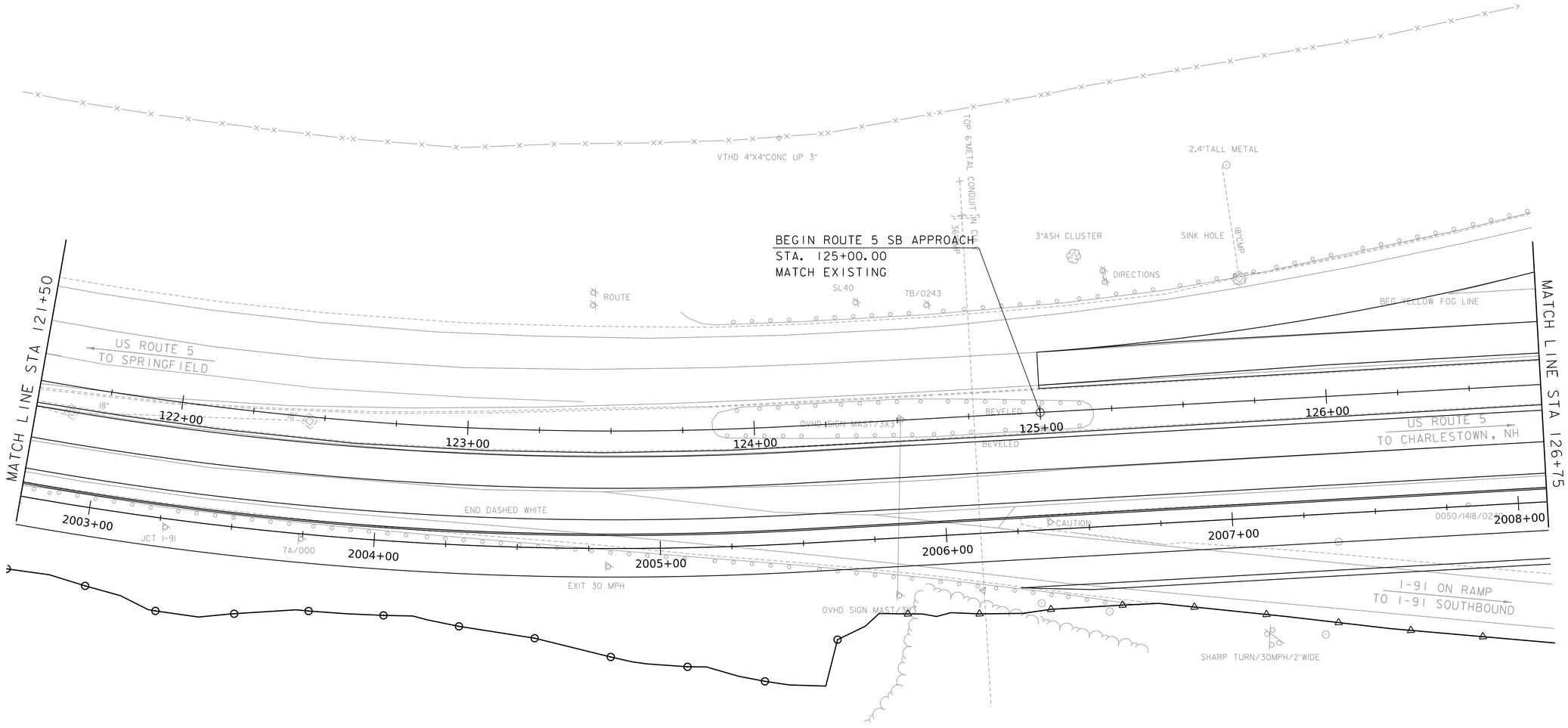
LAYOUT SHEET

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 21	SHEET 72 OF 395



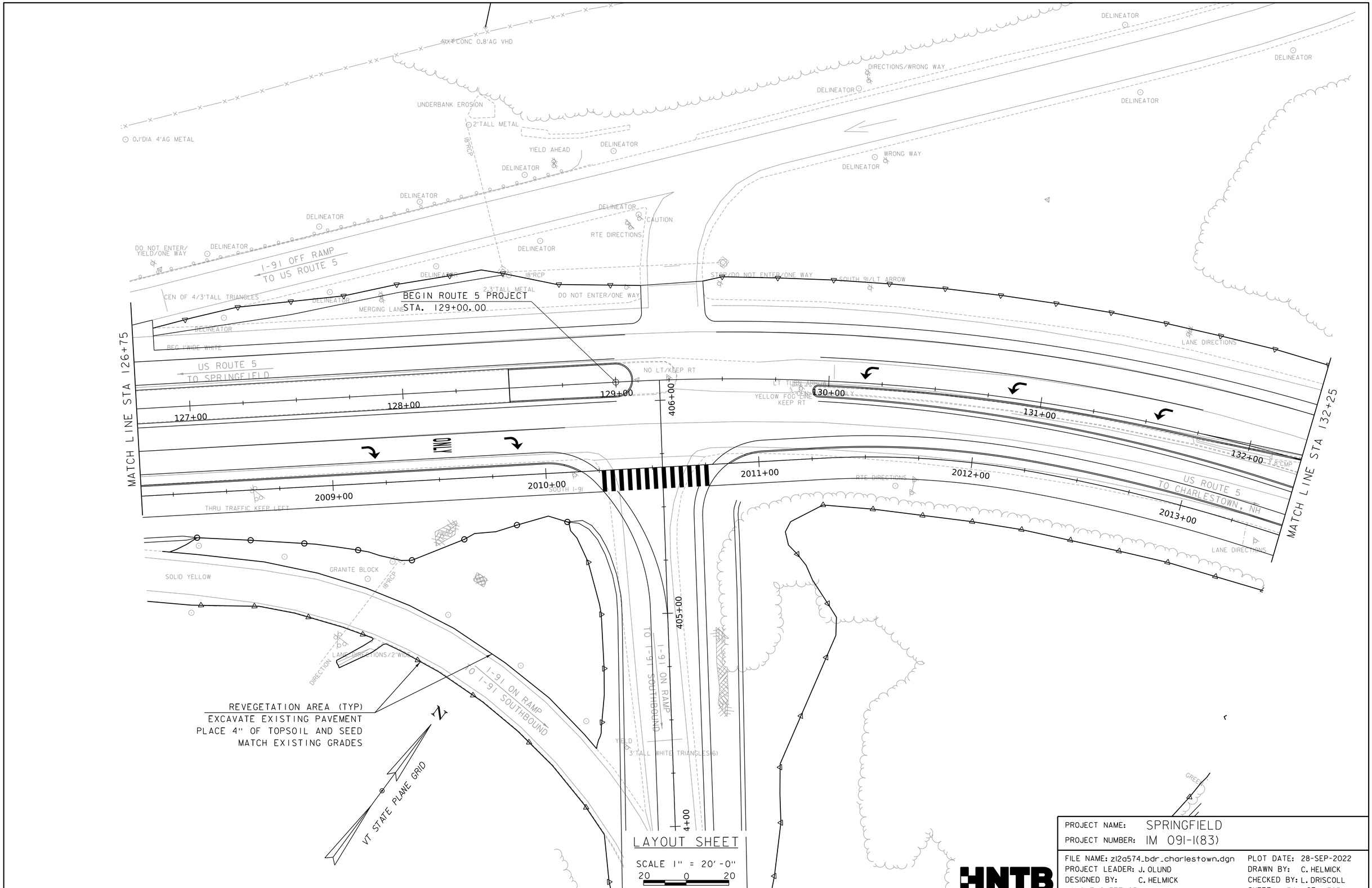
LAYOUT SHEET

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 22	SHEET 73 OF 395



LAYOUT SHEET

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574_bdr_charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 23	SHEET 74 OF 395

EXISTING BRIDGE
BUILT 1965,
2-2 SPAN CONTINUOUS
ROLLED BEAMS, CONCRETE DECK
203' LENGTH. 78.23° SKEW

EXISTING BRIDGE
BUILT 1965,
2-2 SPAN CONTINUOUS
ROLLED BEAMS, CONCRETE DECK
198' LENGTH. 79.11° SKEW

MATCH LINE STA 132+25

MATCH LINE STA 137+50

END ROUTE 5 PROJECT
STA. 137+00.00

US ROUTE 5
TO SPRINGFIELD

US ROUTE 5
TO CHARLESTOWN, NH

I-91 NORTHBOUND
TO SPRINGFIELD

I-91 SOUTHBOUND
TO ROCKINGHAM

VT STATE PLANE GRID

N

BLUE DELINEATOR
GREEN DELINEATOR
WHITE DELINEATOR
24"MAPLE
18"MAPLE
18"CMP
PAVED SWALE
5/8"REBAR VSE CONTROL CAP
BLACK/YELLOW STRIPES
BRIDGE 28S/1-91
BRIDGE 28N/1-91
1.5"WIDE STEEL EXP JOINT
TOWN DIRECTIONS
RTE DIRECTIONS
5"POPLAR
ONE WAY
DO NOT ENTER
EXIT LANE DIRECTIONS
NO LT TURN/KEEP RT/CAUTION
DIRECTIONAL
EXIT 30MPH
8"HID
DIRECTION
WHITE RIVER JCT 31/NORTH I-91
DIRECTION/ANGLES AROUND PIERS
0050/1418/0260

12202+00
12201+00
12200+00
12199+00
22203+00
22202+00
22201+00
22200+00
22199+00
301+00
300+00
211+00
210+00
134+00
135+00
136+00
137+00
133+00
2014+00
2015+00
2016+00
2017+00
2018+00

LAYOUT SHEET

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 24	SHEET 75 OF 395

HNTB

MATCH LINE STA 137+50

US ROUTE 5
TO SPRINGFIELD

DOUBLE SOLID YELLOW

WARNING

NORTH I-91

LANE DIRECTIONS

5/8"REBAR VSE CONTROL CAP

ONE WAY/DO NOT ENTER

STOP

ONE WAY/DO NOT ENTER

STOP

MAJOR

BEGIN SOLID YELLOW

RTE DIRECTIONS

END ROUTE 5 APPROACH
STA. 142+50.00

NO LEFT TURN/NORTH I-91

US ROUTE 5
TO CHARLESTOWN, NH

ROUTE DIRECTIONS

VT STATE PLANE GRID

139+00

140+00

141+00

142+00

143+00

2019+00

2020+00

2021+00

2022+00

2023+00

14"OAK(2)

INTERSTATE RESTRICTIONS

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL AND SEED
MATCH EXISTING GRADES

INTERSTATE RESTRICTIONS

MISSING CONC LID/LEFT OPEN

18"CMP

18"CMP

24"CMP

MISSING CONC LID/LEFT OPEN

18"CMP

6"CMP

DIRECTIONAL

LANE DIRECTIONS

TO I-91 NORTHBOUND

I-91 ON RAMP

I-91 ON RAMP
TO I-91 NORTHBOUND

DIRECTIONAL CNF OUTLET

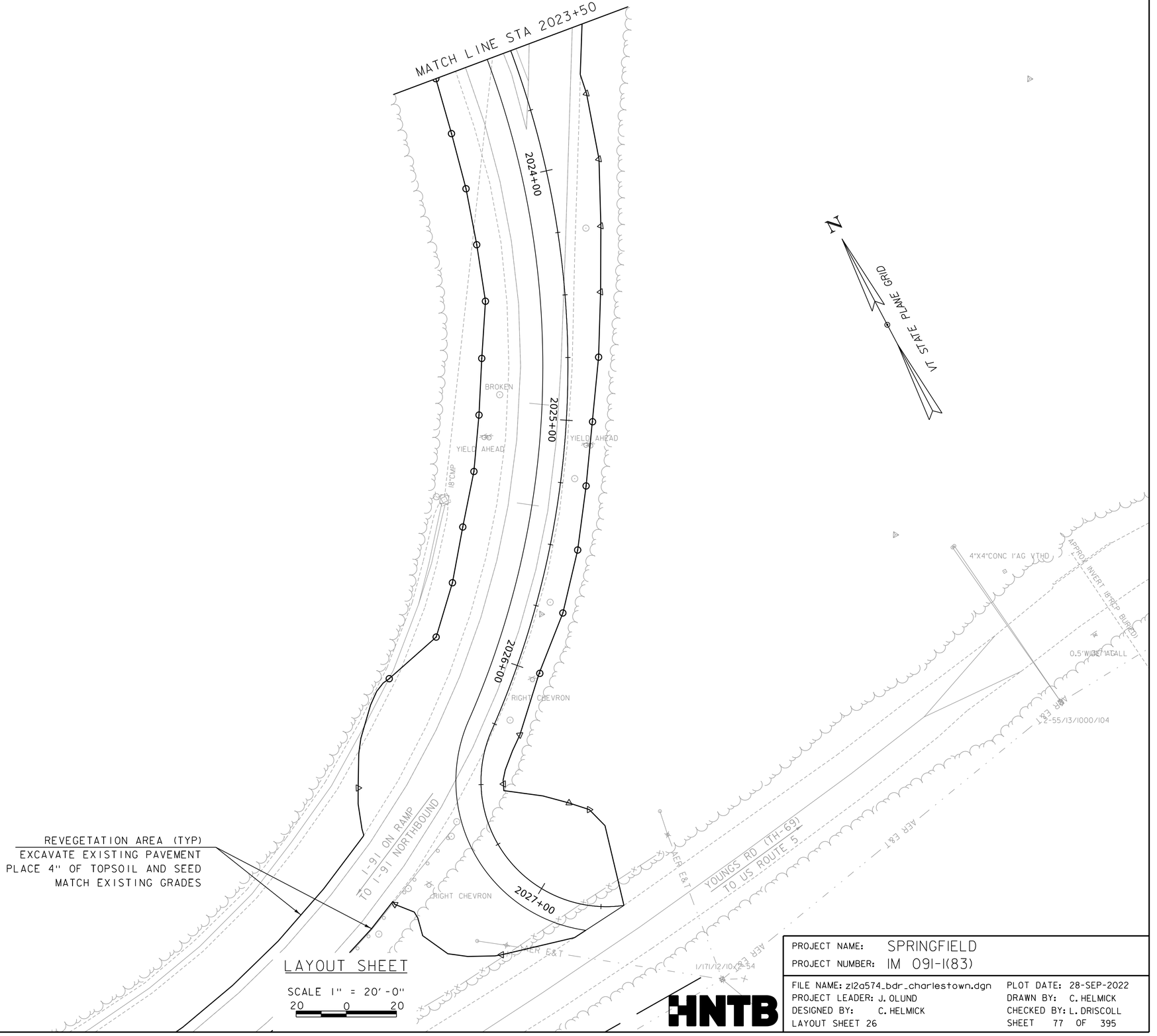
MATCH LINE STA 2023+50

LAYOUT SHEET

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 25	SHEET 76 OF 395



LAYOUT SHEET

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574_bdr_charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 26	SHEET 77 OF 395

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL AND SEED
MATCH EXISTING GRADES

EXISTING CULVERT
CONCRETE BOX CULVERT,
BUILT 1965,
430' BARREL LENGTH
30' AVERAGE COVER
121 SF AREA THROUGH CULVERT

N

VT STATE PLANE GRID

DIRECTION
6"CMP UD

BEGIN SOLID YELLOW
BEGIN 1'WIDE WHITE

ROUTE DIRECTIONS

I-91 NORTHBOUND
TO SPRINGFIELD

907+00
906+00
905+00
904+00
903+00
902+00
901+00
900+00

SPENCER BROOK
FLOW

WRONG WAY

DIRECTION
6"PERF CMP UD

WRONG WAY

18"CMP

10"MAPLE(2)
38"MAPLE
4"MAPLE CLUMP

4"X4"CONC I'AG LEANING/STABLE/V

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL AND SEED
MATCH EXISTING GRADES

ONE WAY/2'WIDE

18"CMP/ABANDONED CONC FLUE
DIRECTION

I-91 OFF RAMP
TO US ROUTE 5

6"MAPLE(5)

WRONG WAY/2'WIDE

I-91 OFF RAMP
TO US ROUTE 5

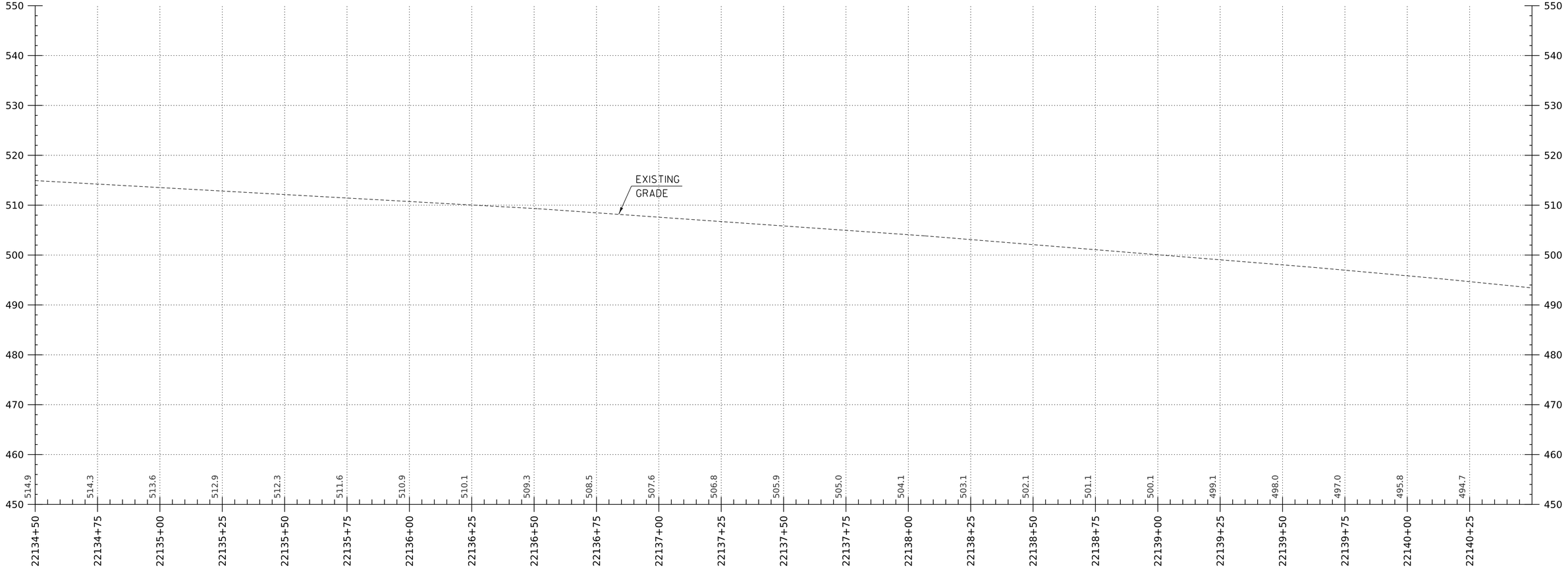
24"CMP

LAYOUT SHEET

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_charlestown.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 27	SHEET 78 OF 395

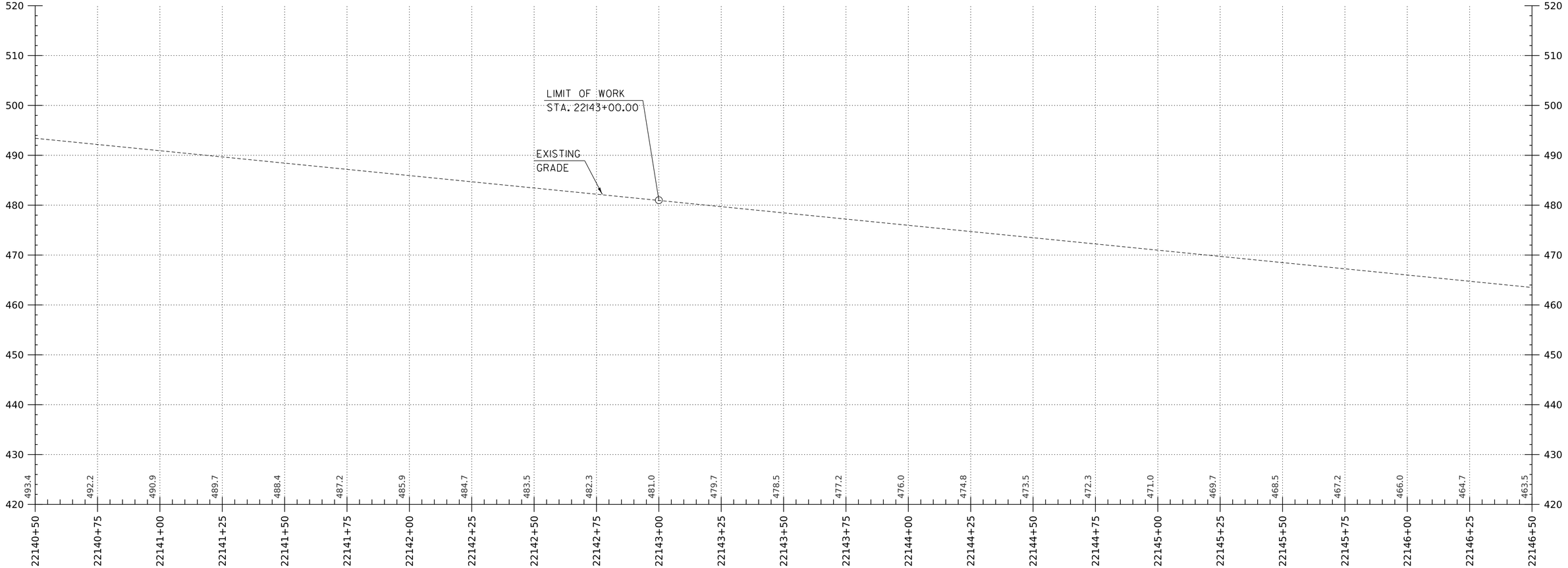


I-91 NB PROFILE

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 1	SHEET 79 OF 395



I-91 NB PROFILE

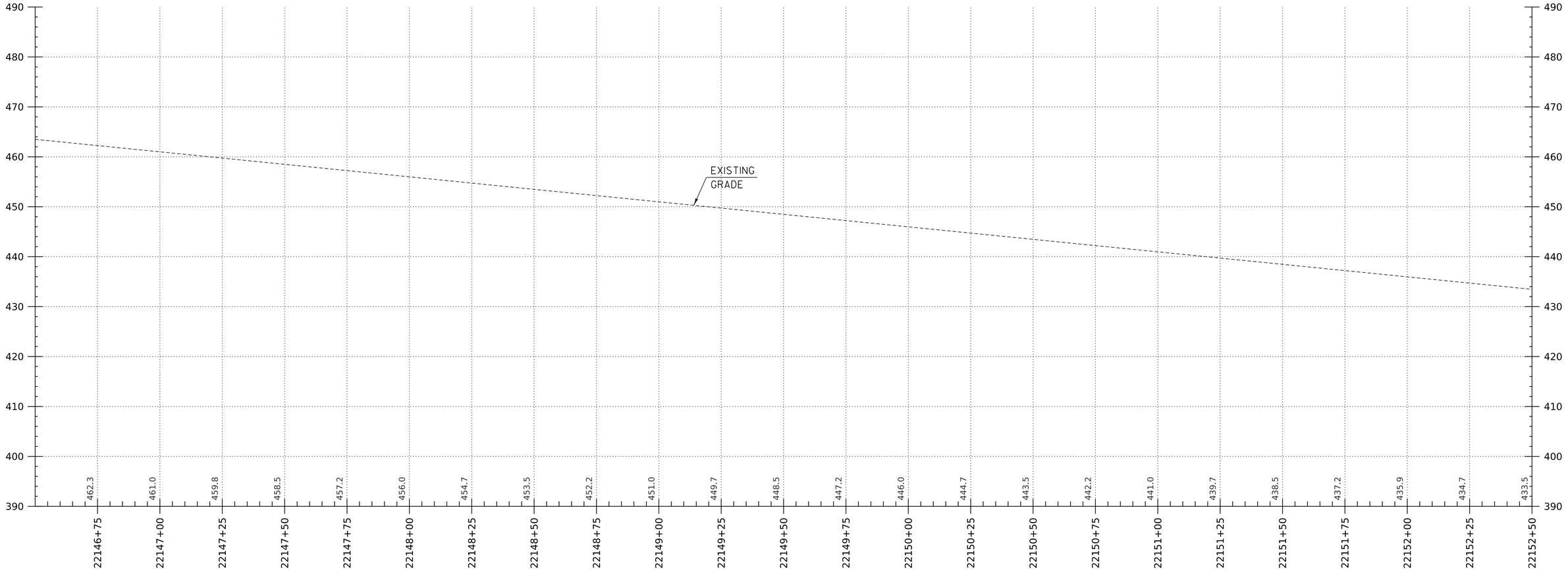
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574pro_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB PROFILE SHEET 2

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 80 OF 395

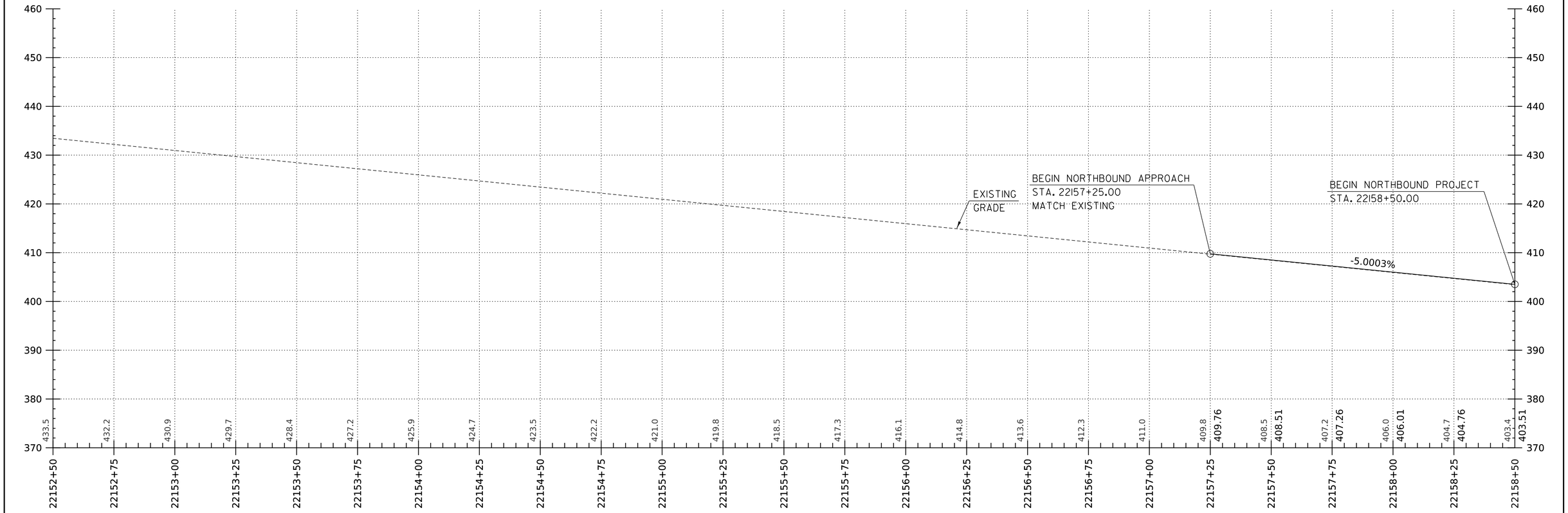


I-91 NB PROFILE

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 3	SHEET 81 OF 395

HNTB

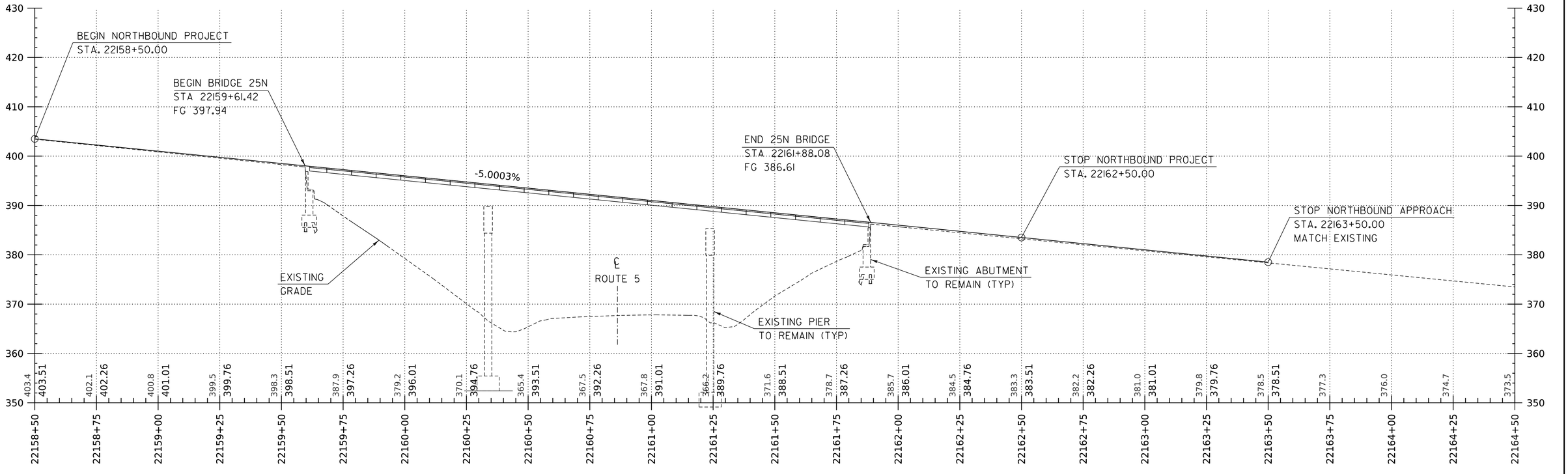


I-91 NB PROFILE

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 4	SHEET 82 OF 395

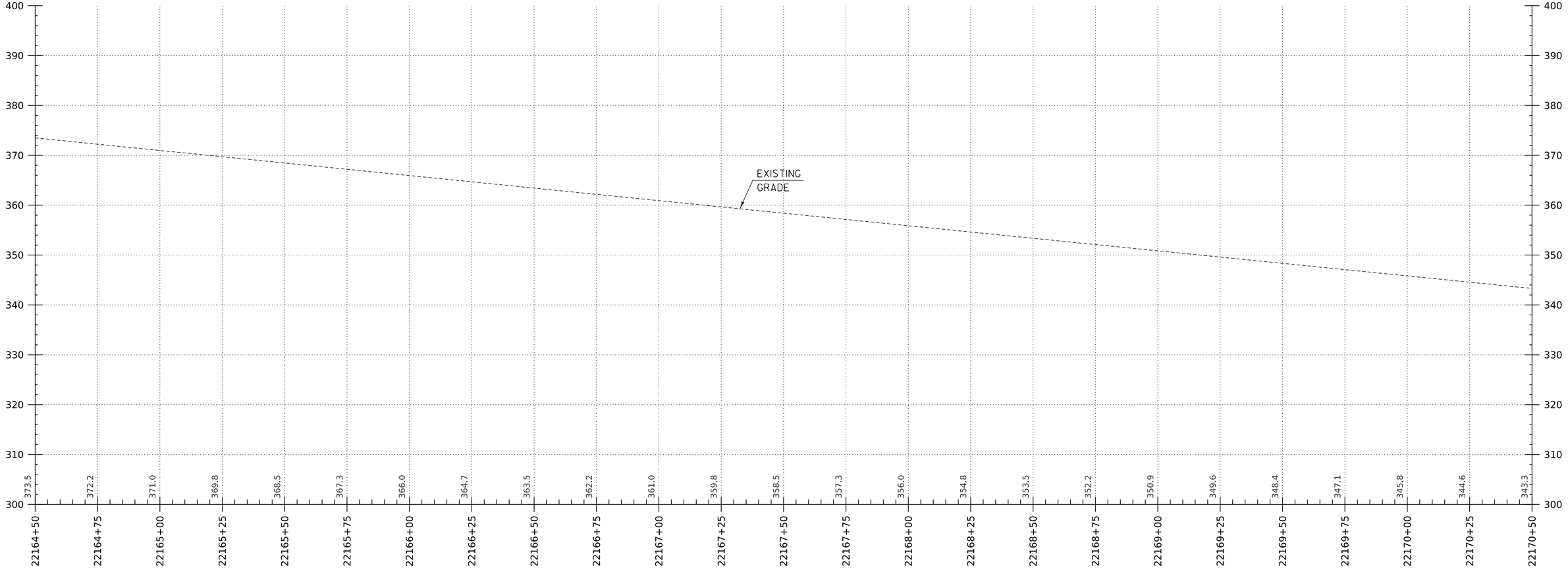


I-91 NB PROFILE

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 5	SHEET 83 OF 395



I-91 NB PROFILE

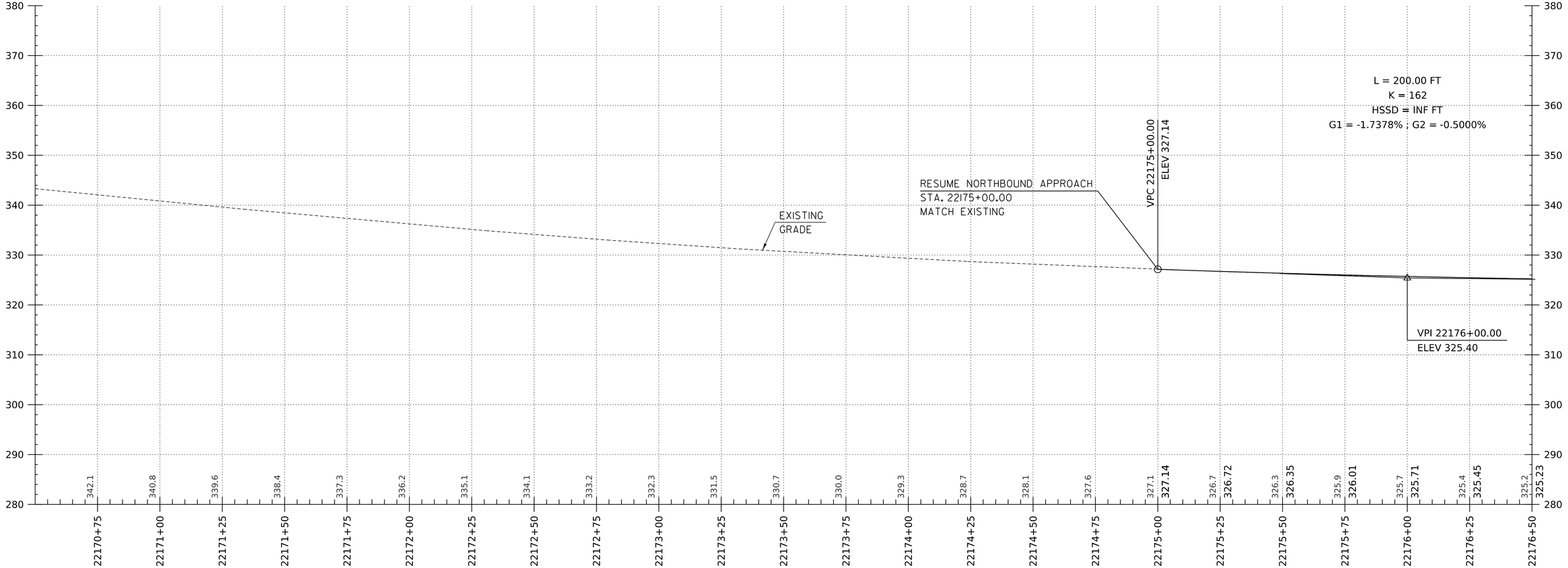
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574pro_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB PROFILE SHEET 6

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 84 OF 395

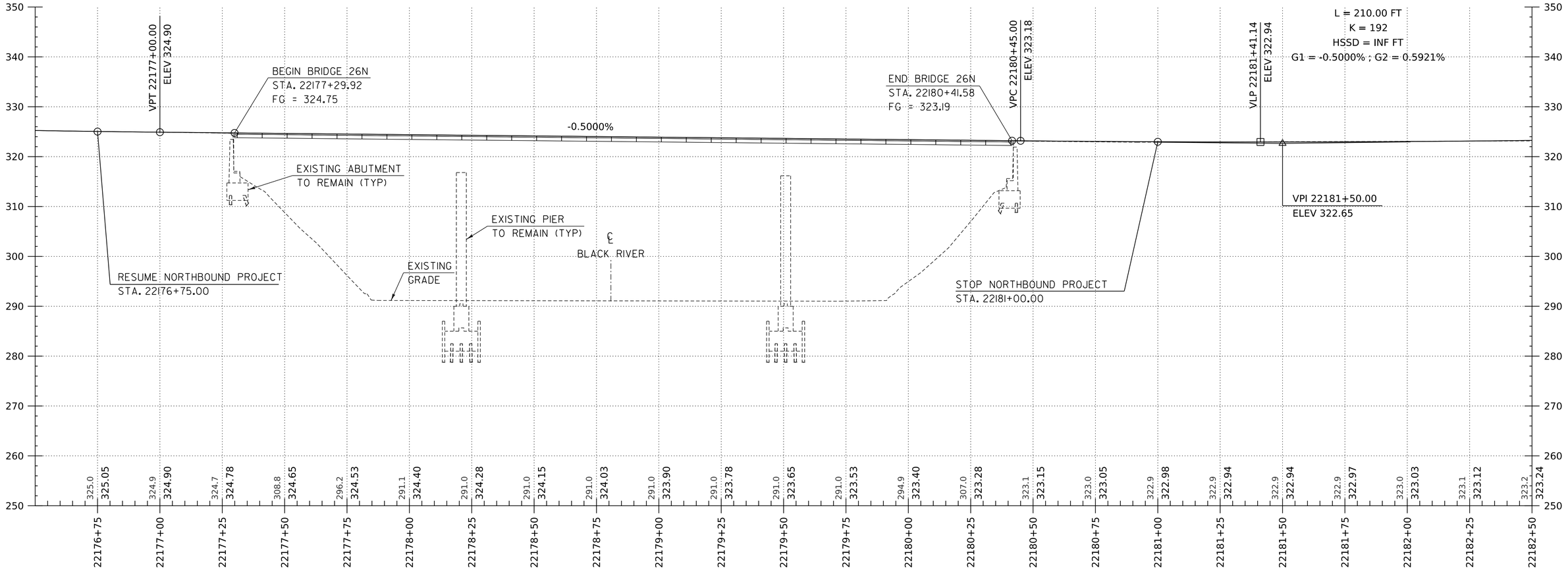


I-91 NB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 7	SHEET 85 OF 395

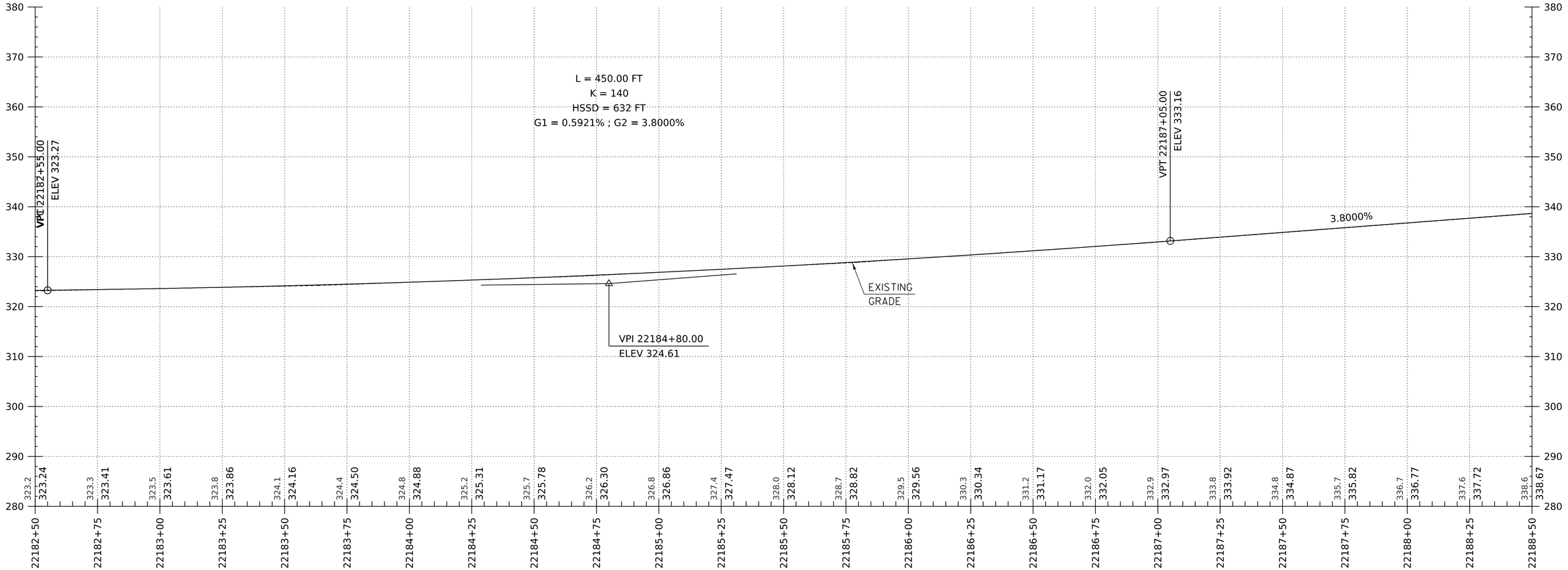


I-91 NB PROFILE

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 8	SHEET 86 OF 395

HNTB

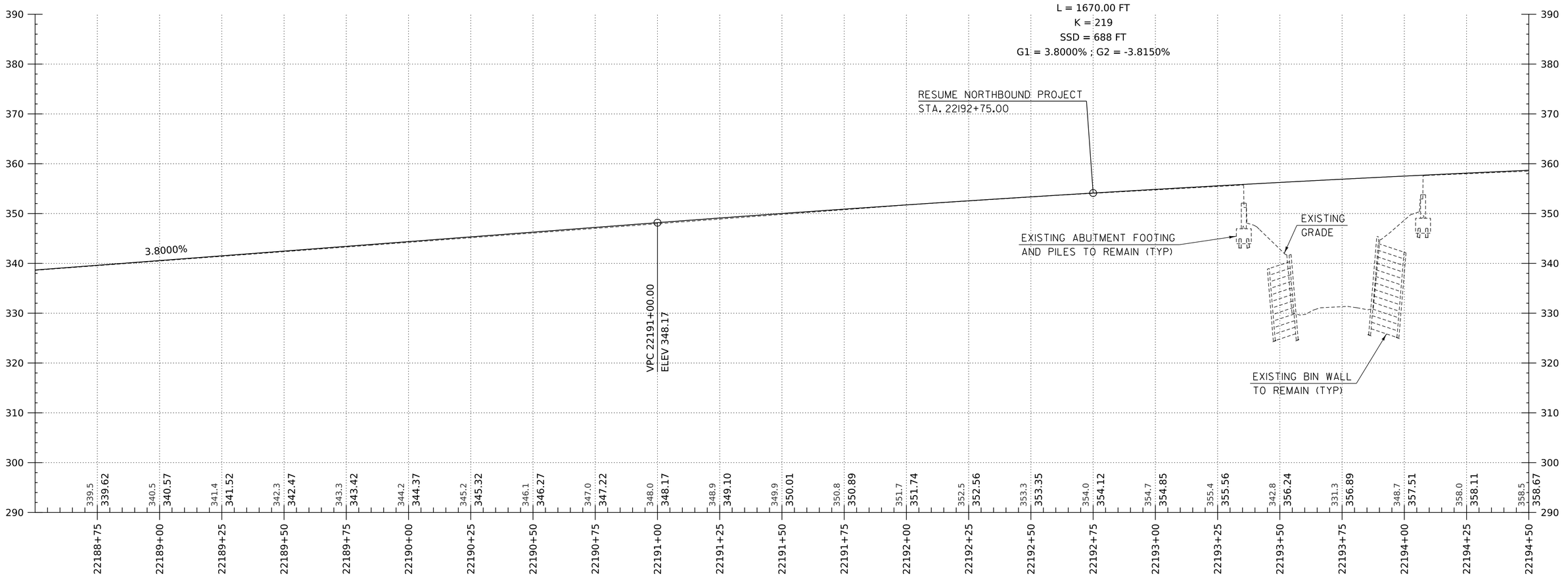


I-91 NB PROFILE

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

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 9	SHEET 87 OF 395

HNTB

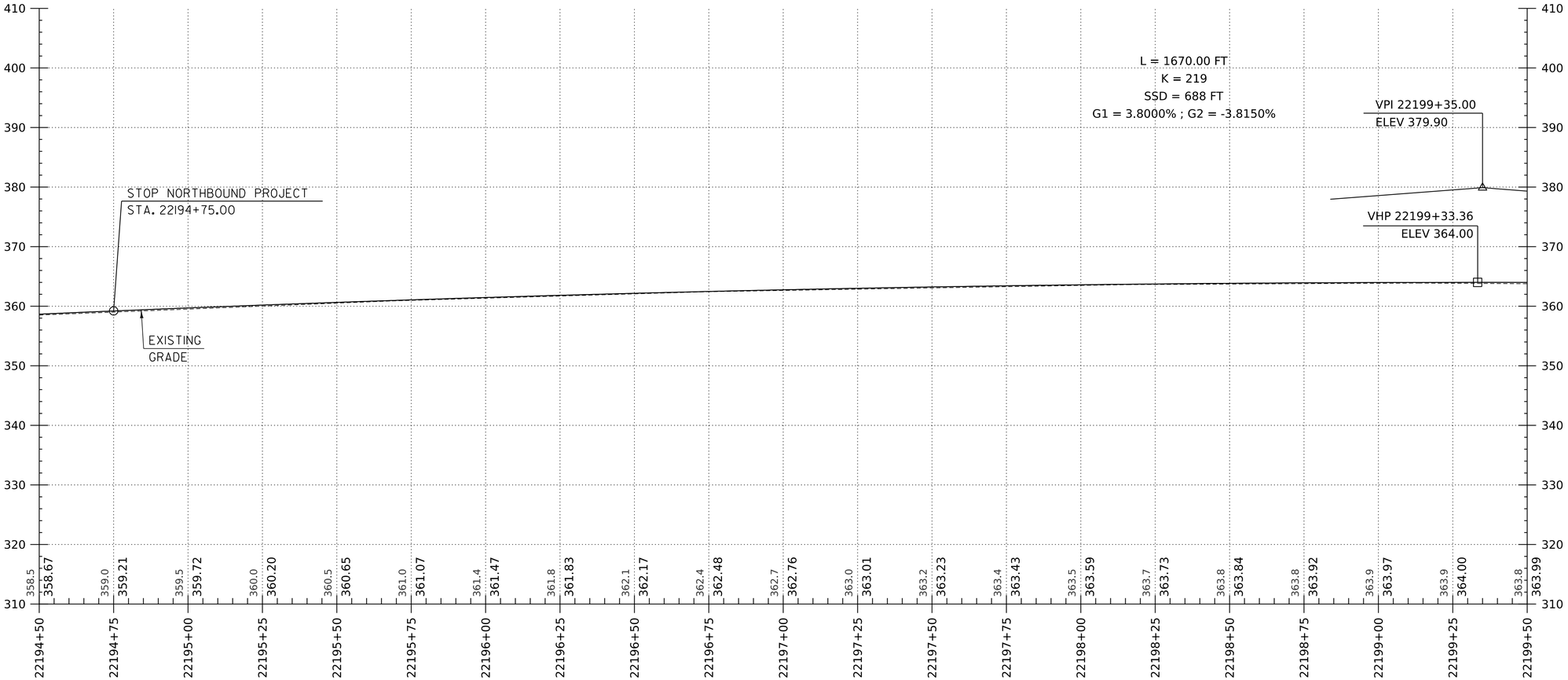


I-91 NB PROFILE

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 10	SHEET 88 OF 395

HNTB

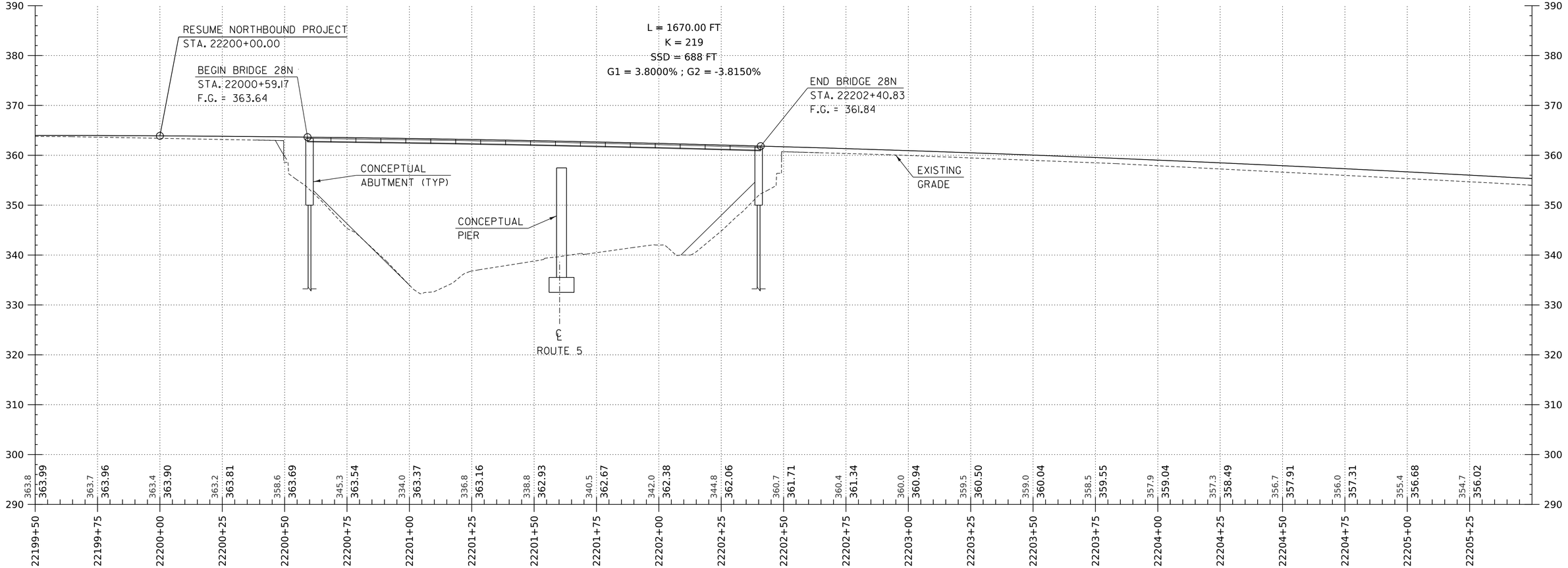


I-91 NB PROFILE

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 11	SHEET 89 OF 395

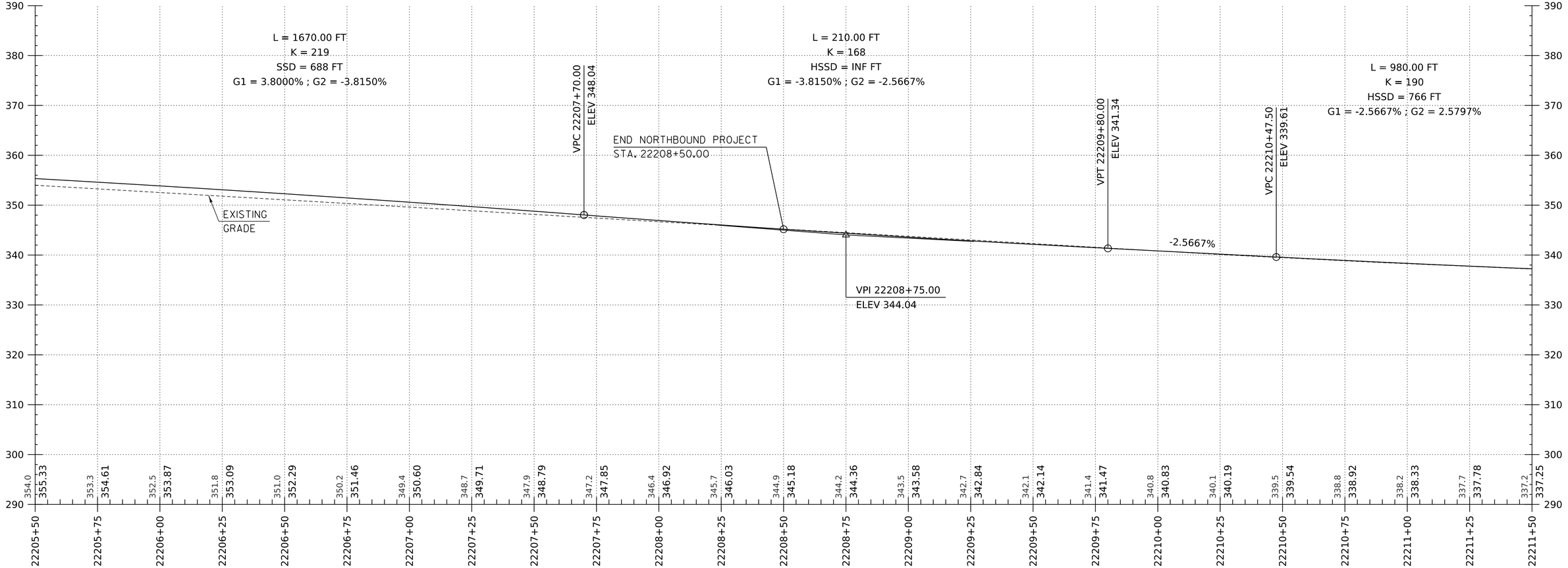


I-91 NB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 12	SHEET 90 OF 395

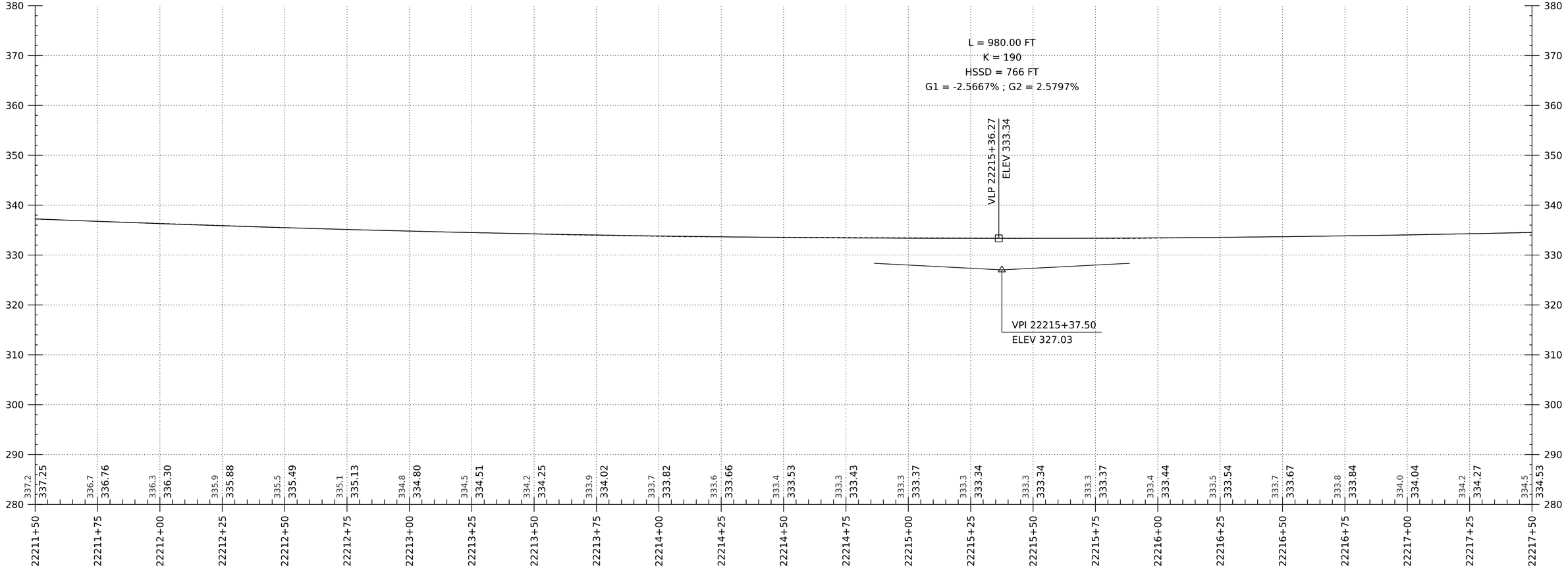


I-91 NB PROFILE

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 13	SHEET 91 OF 395

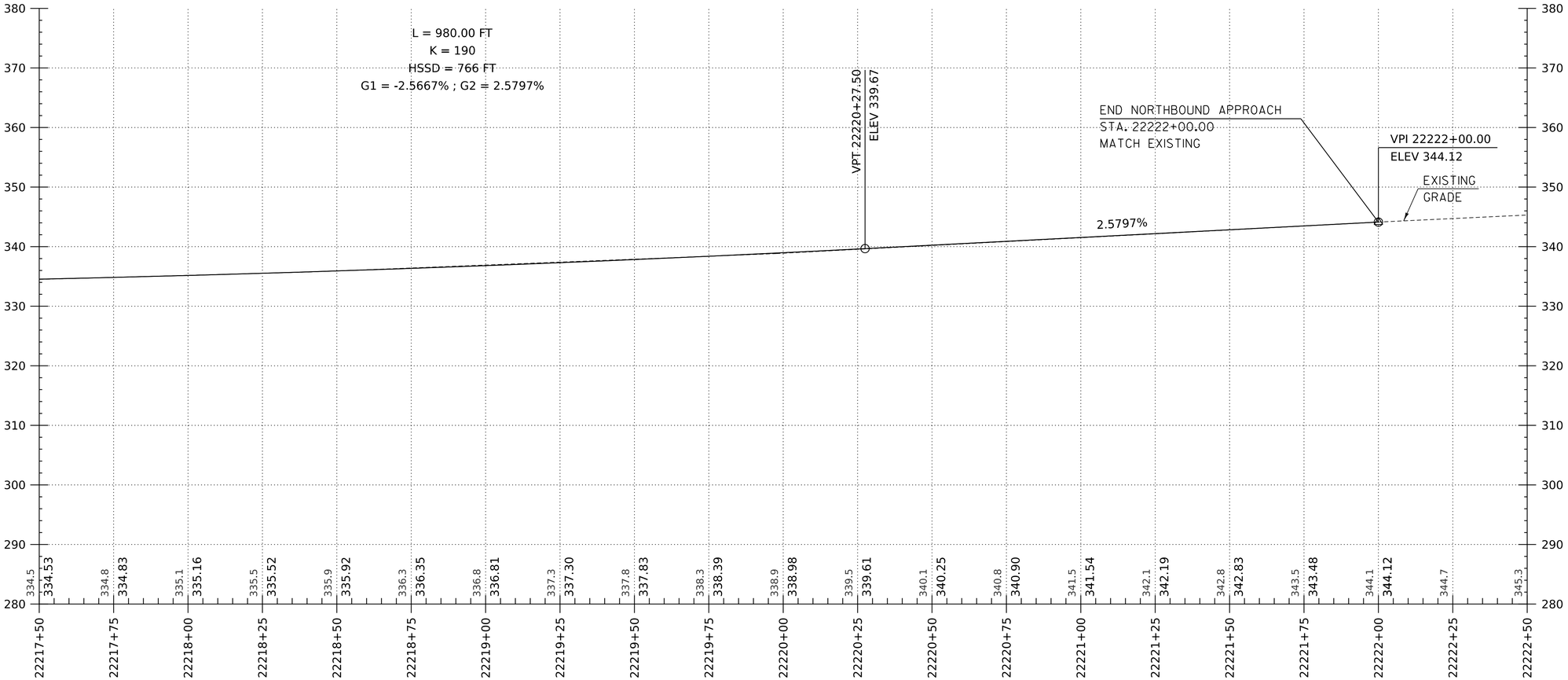


I-91 NB PROFILE

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 14	SHEET 92 OF 395



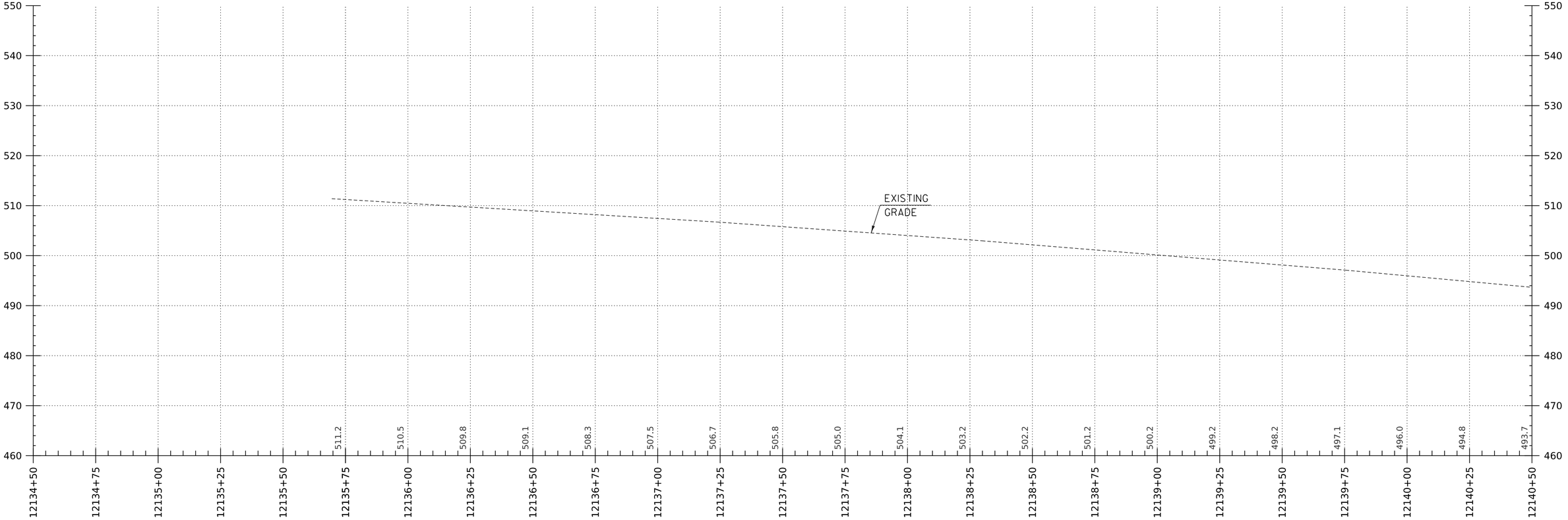
I-91 NB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 15	SHEET 93 OF 395



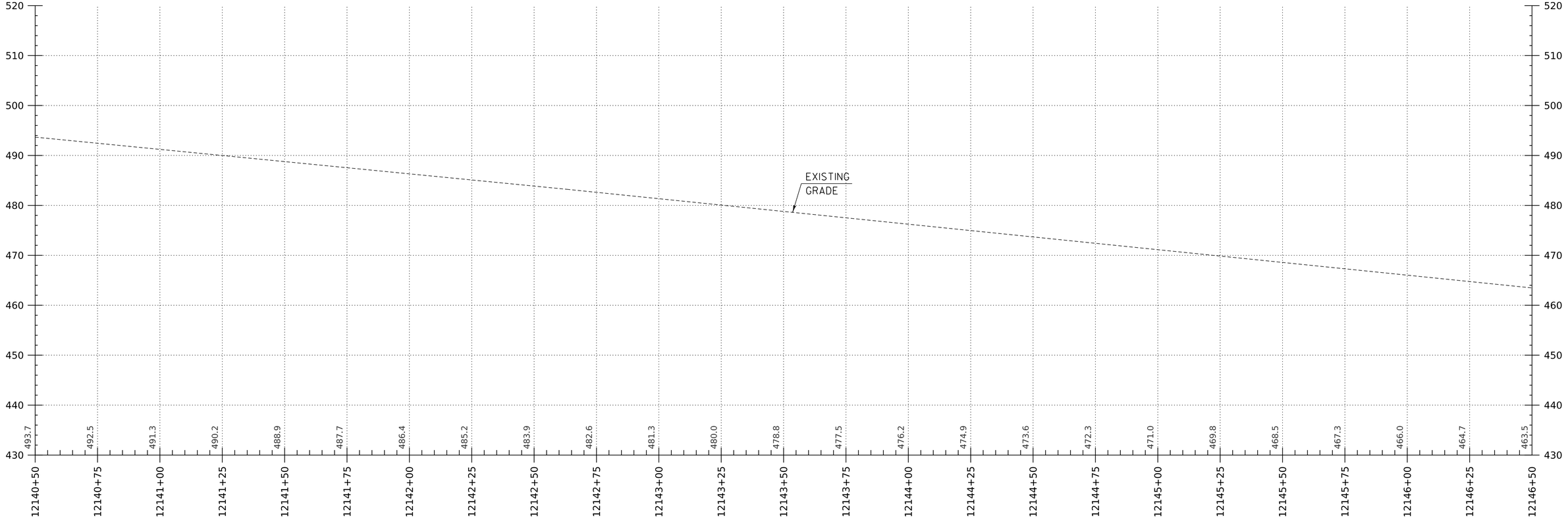
I-91 SB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 1	SHEET 94 OF 395



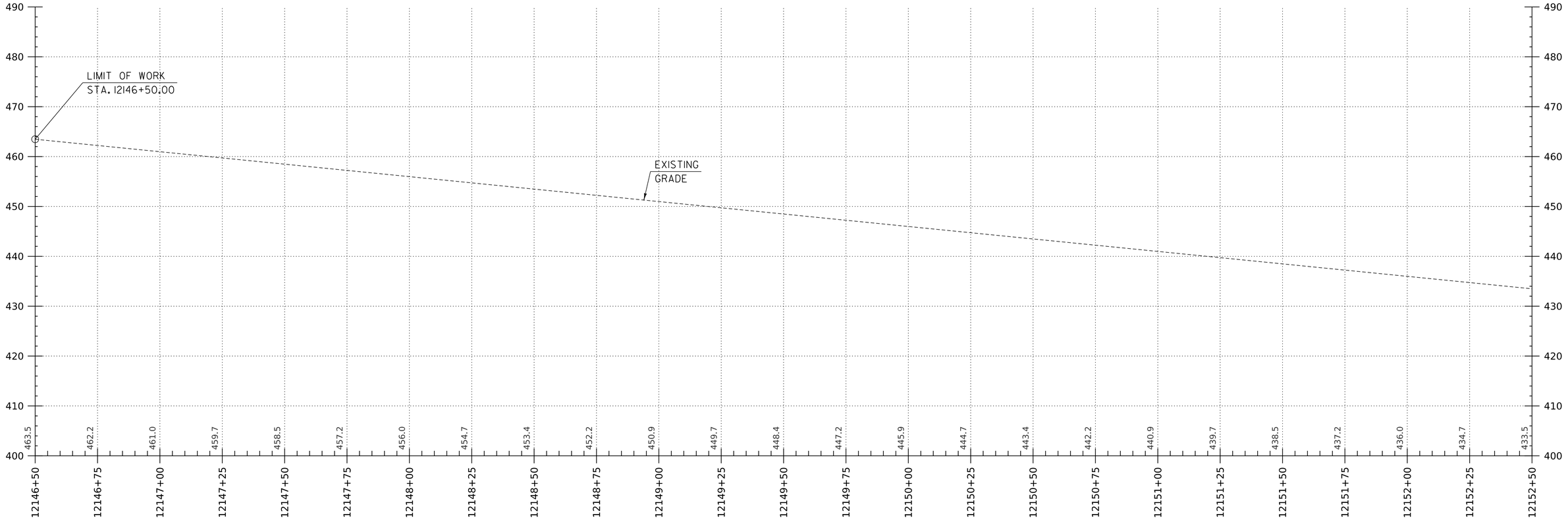
I-91 SB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 2	SHEET 95 OF 395

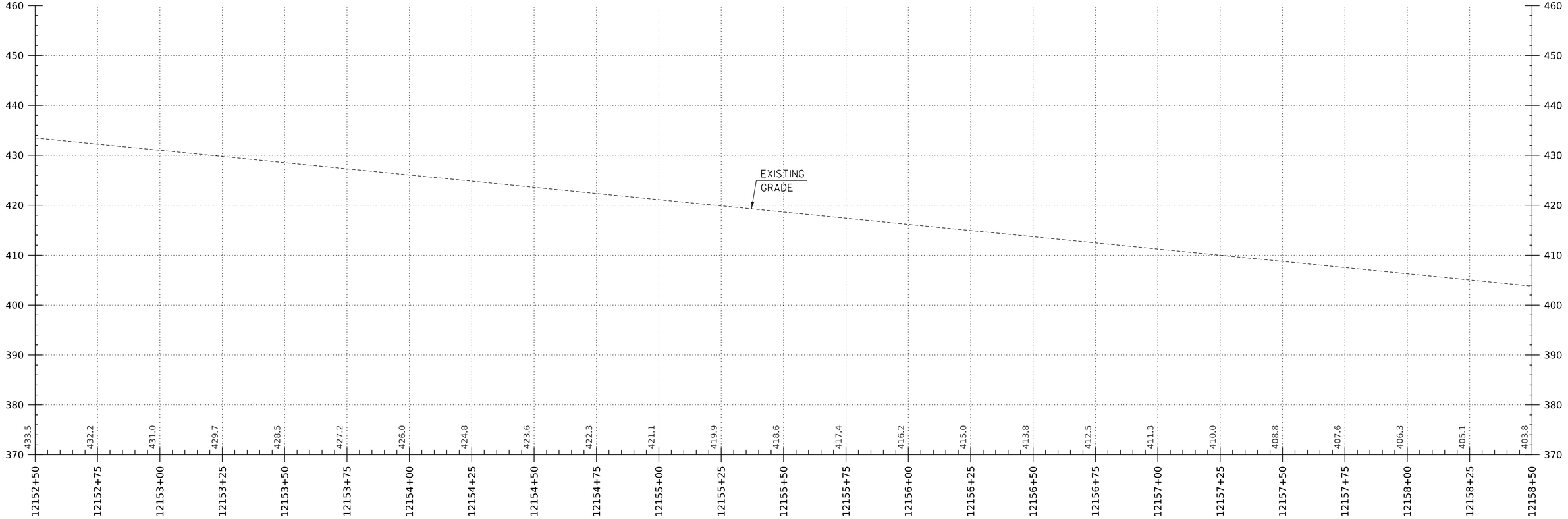


I-91 SB PROFILE

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 3	SHEET 96 OF 395

HNTB



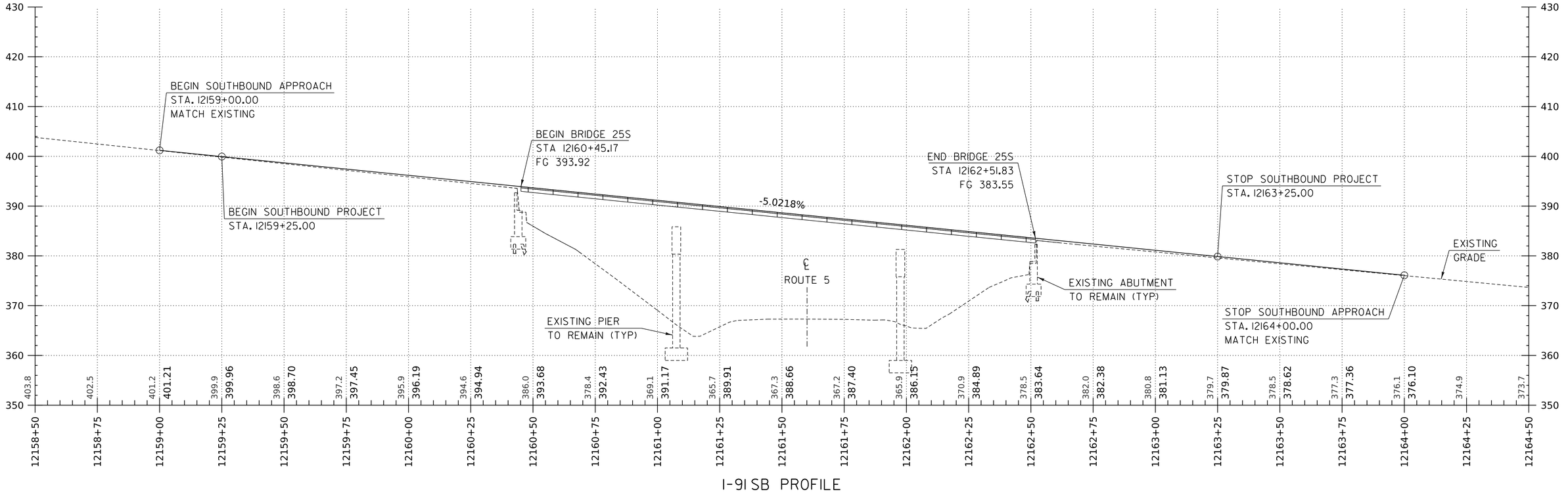
I-91 SB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 4	SHEET 97 OF 395



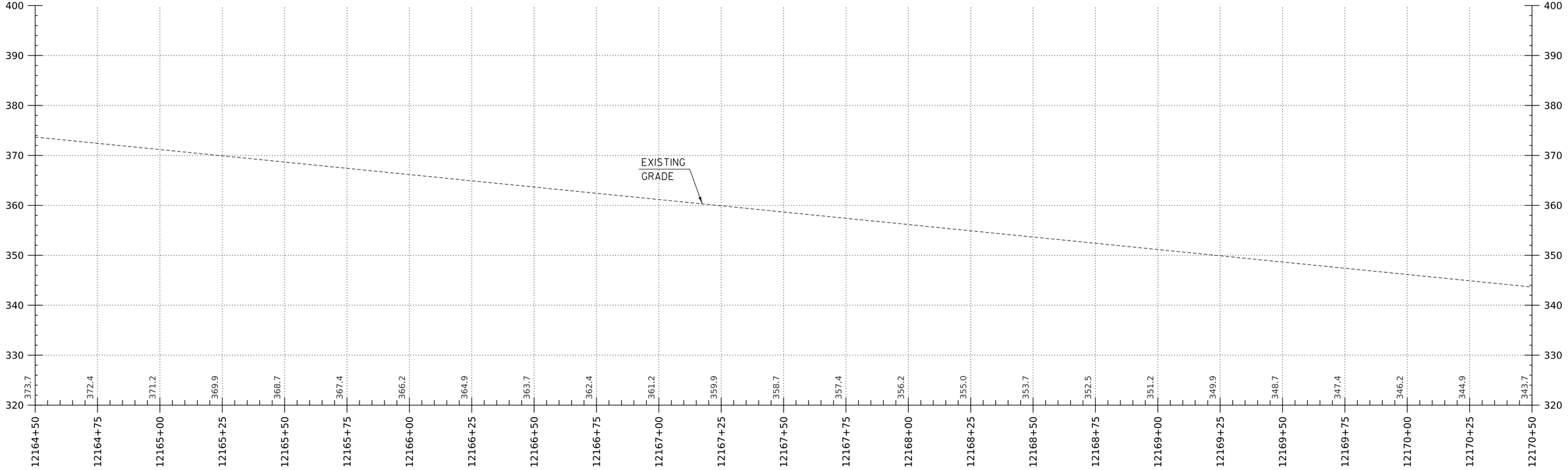
I-91 SB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 5	SHEET 98 OF 395

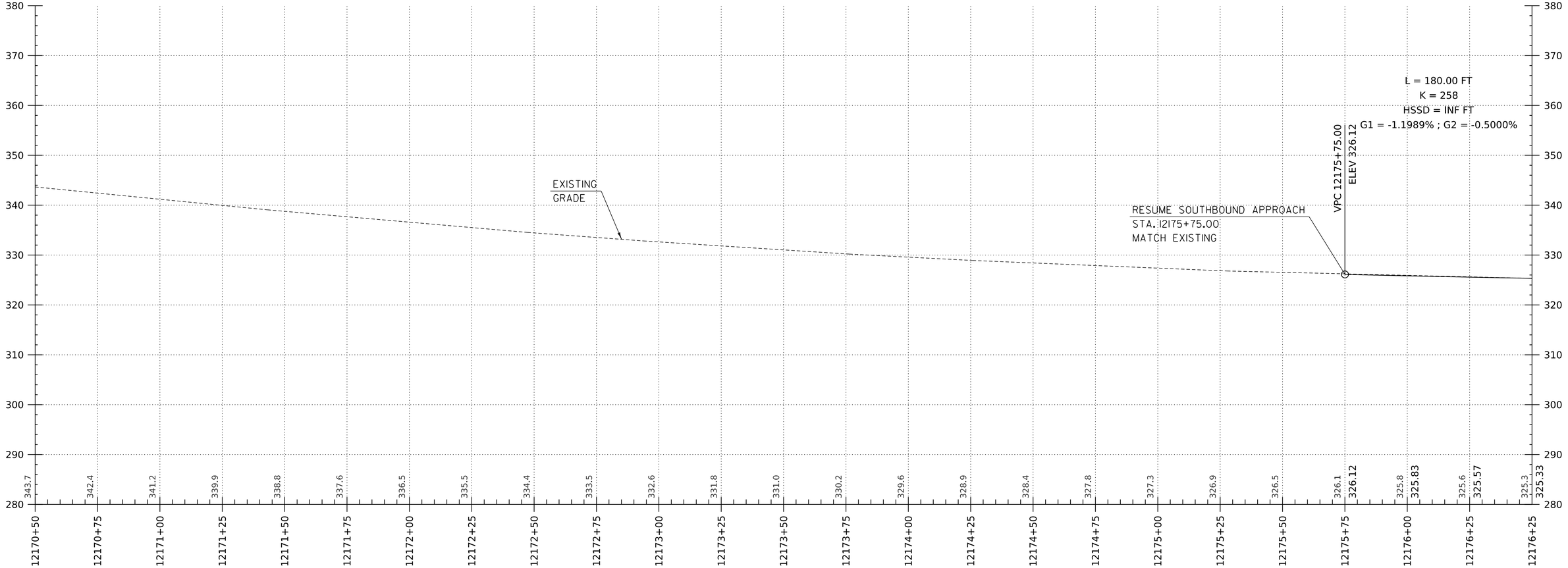


I-91 SB PROFILE

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 6	SHEET 99 OF 395

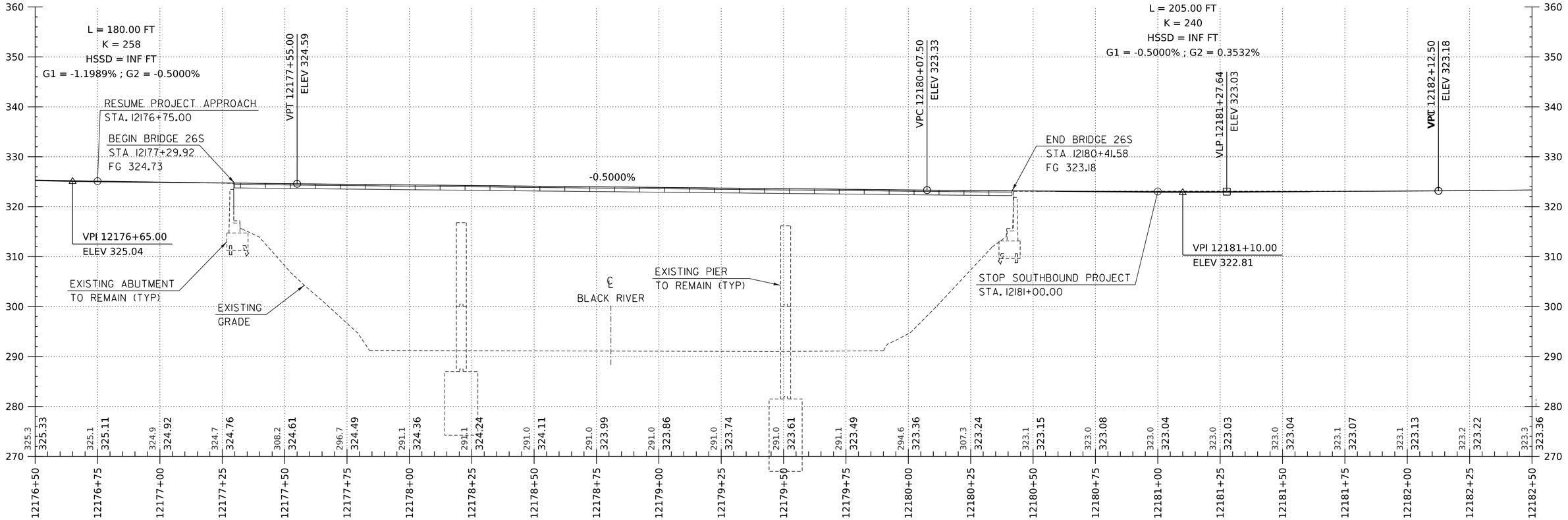


I-91 SB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 7	SHEET 100 OF 395

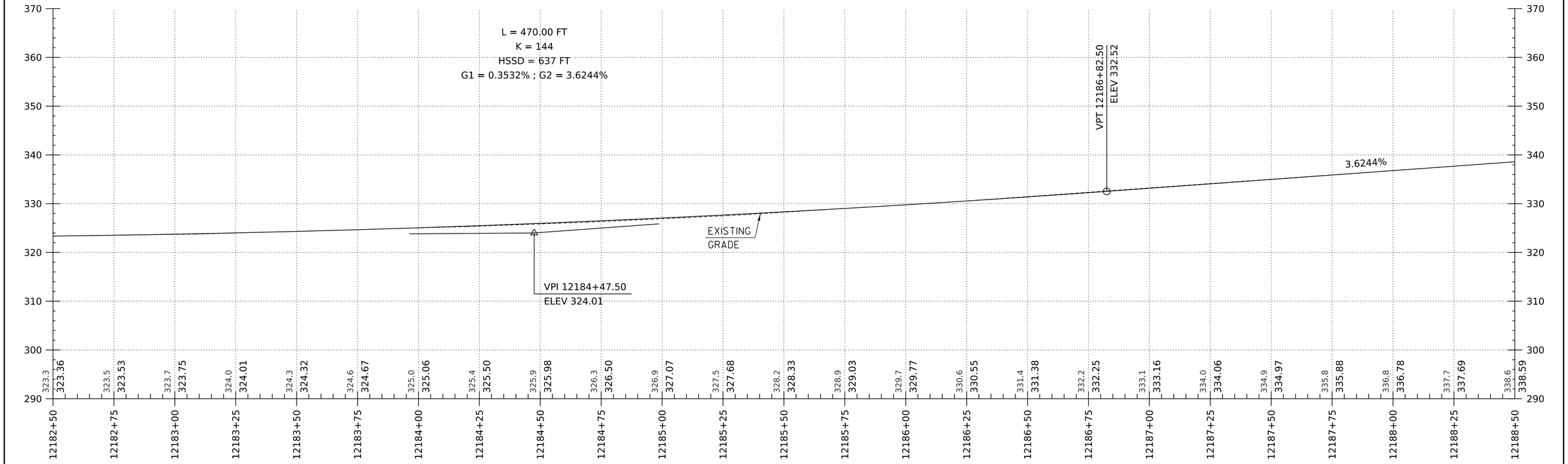


I-91 SB PROFILE

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 8	SHEET 101 OF 395



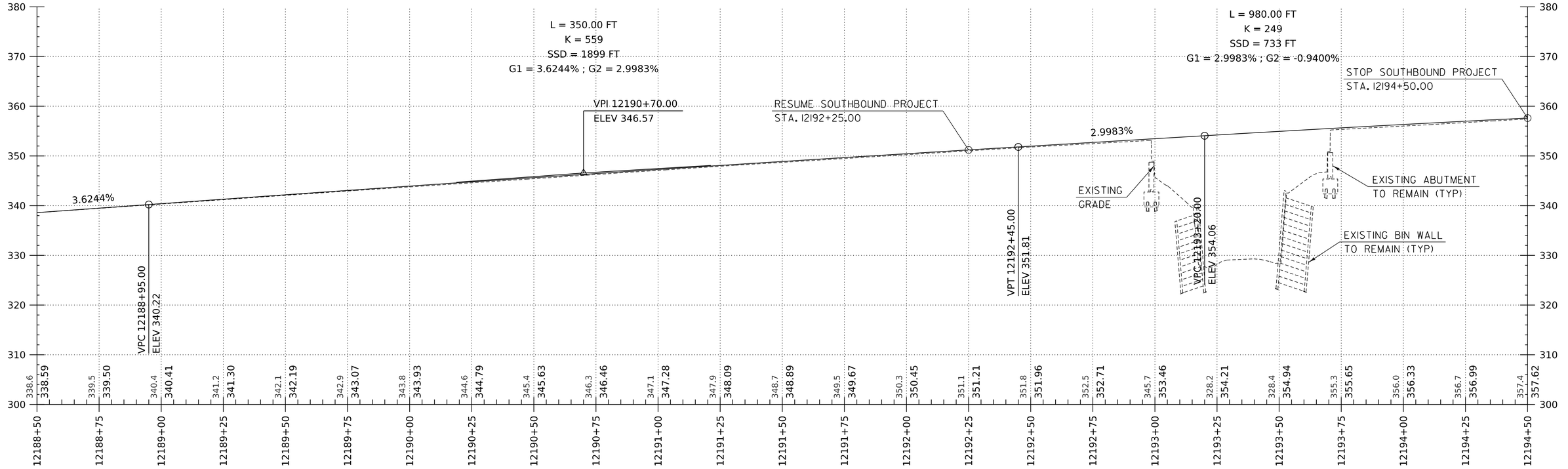
I-91 SB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 9	SHEET 102 OF 395

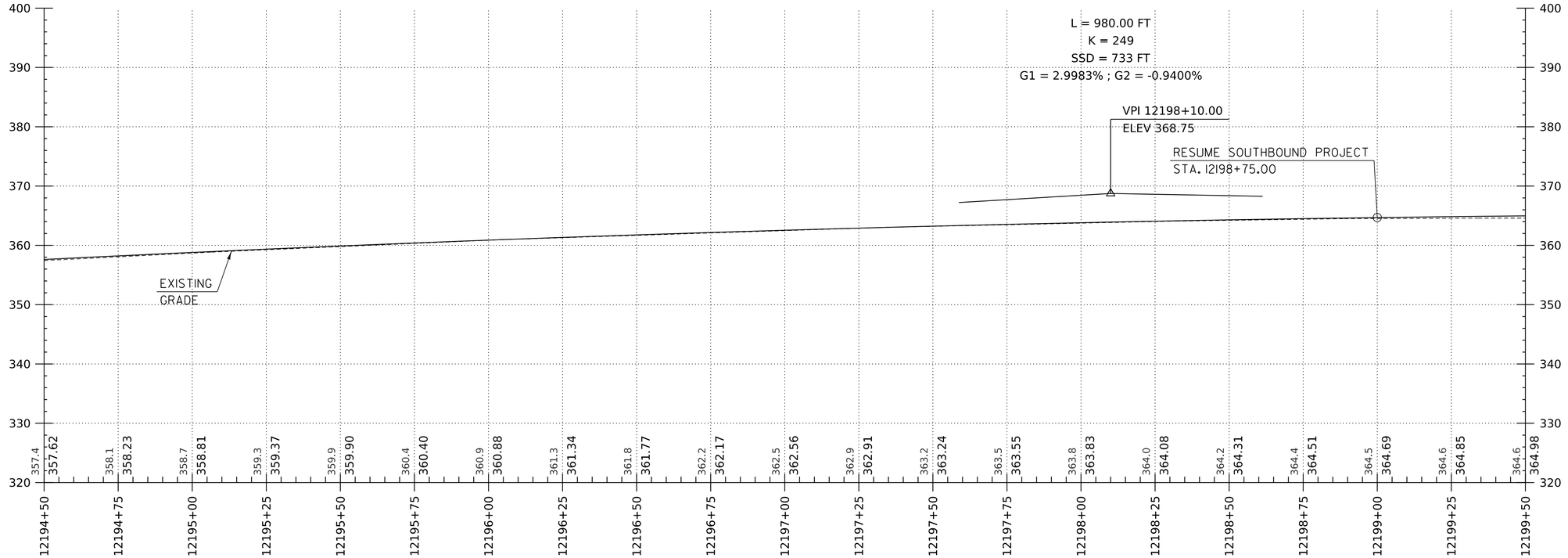


I-91 SB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 10	SHEET 103 OF 395

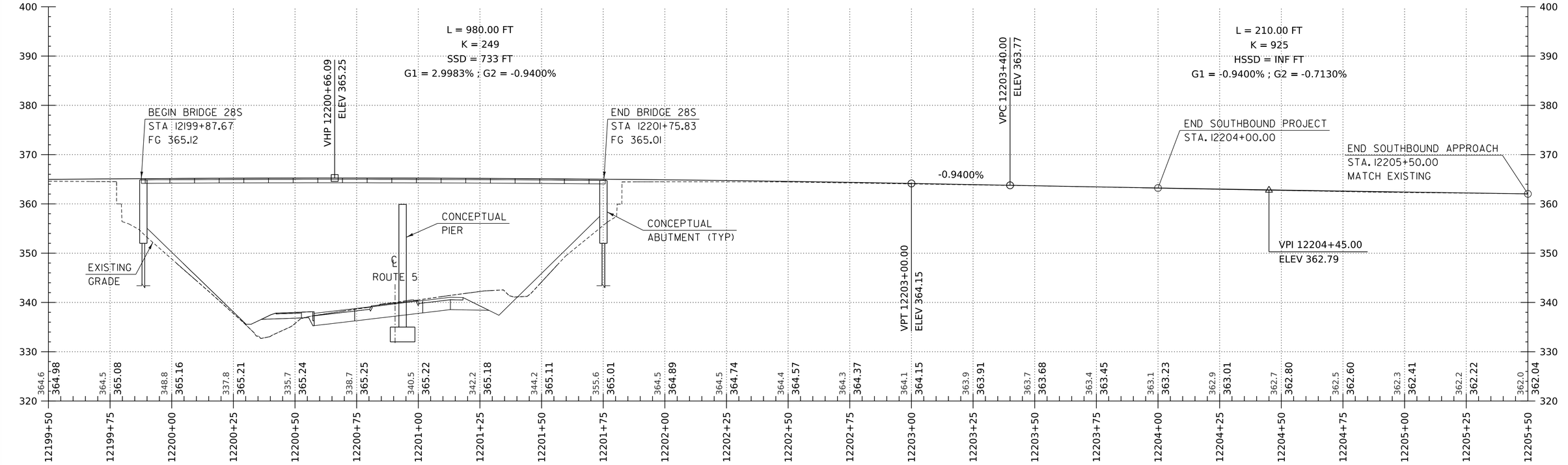


I-91 SB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 11	SHEET 104 OF 395

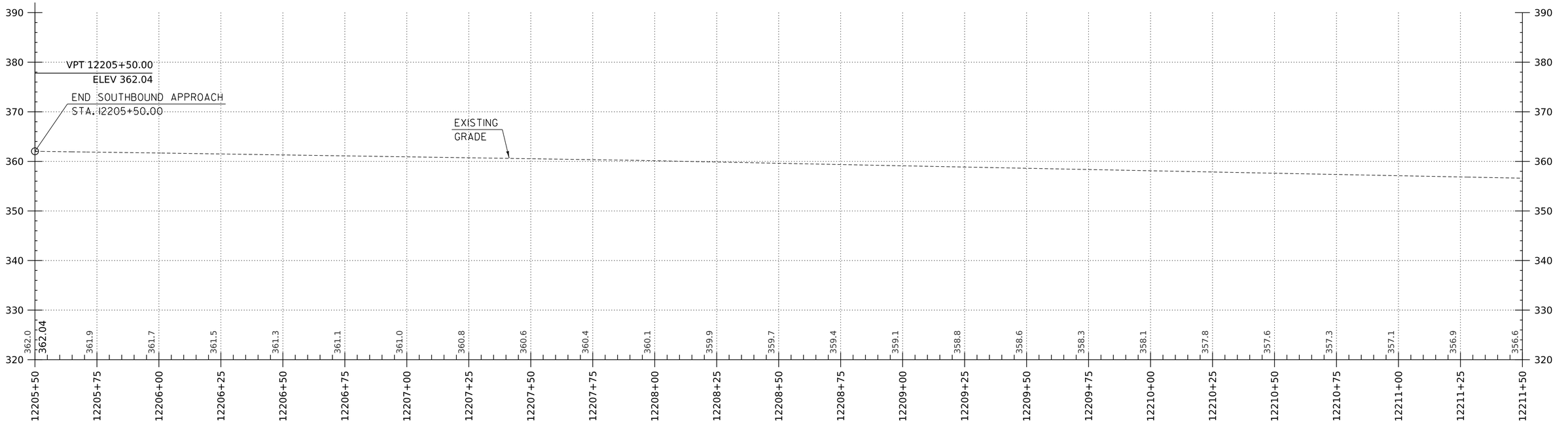


I-91 SB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 12	SHEET 105 OF 395

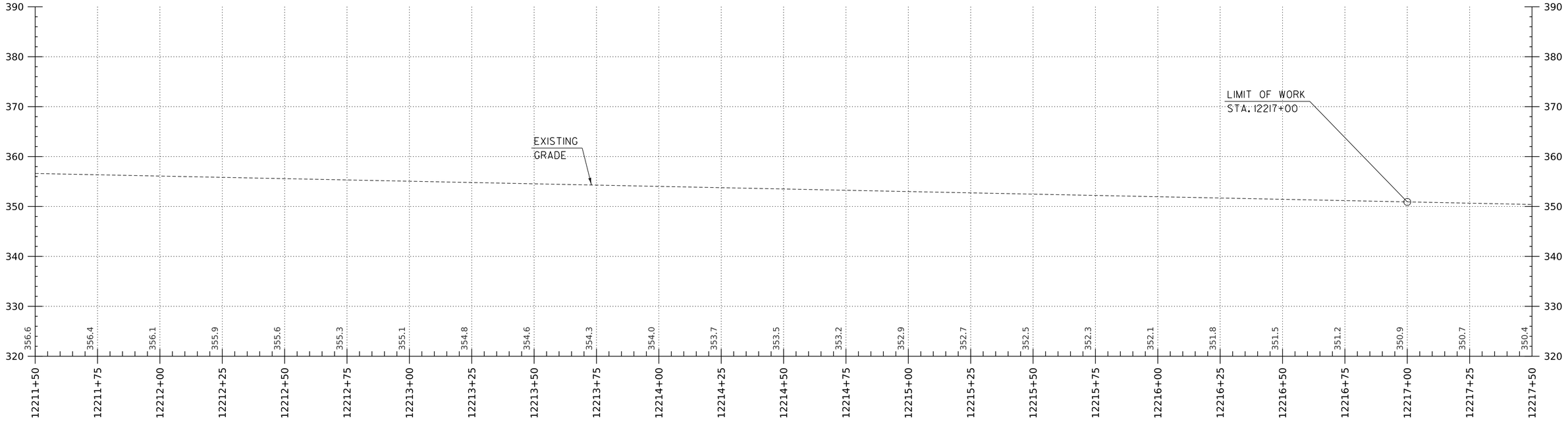


I-91 SB PROFILE

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 13	SHEET 106 OF 395

HNTB

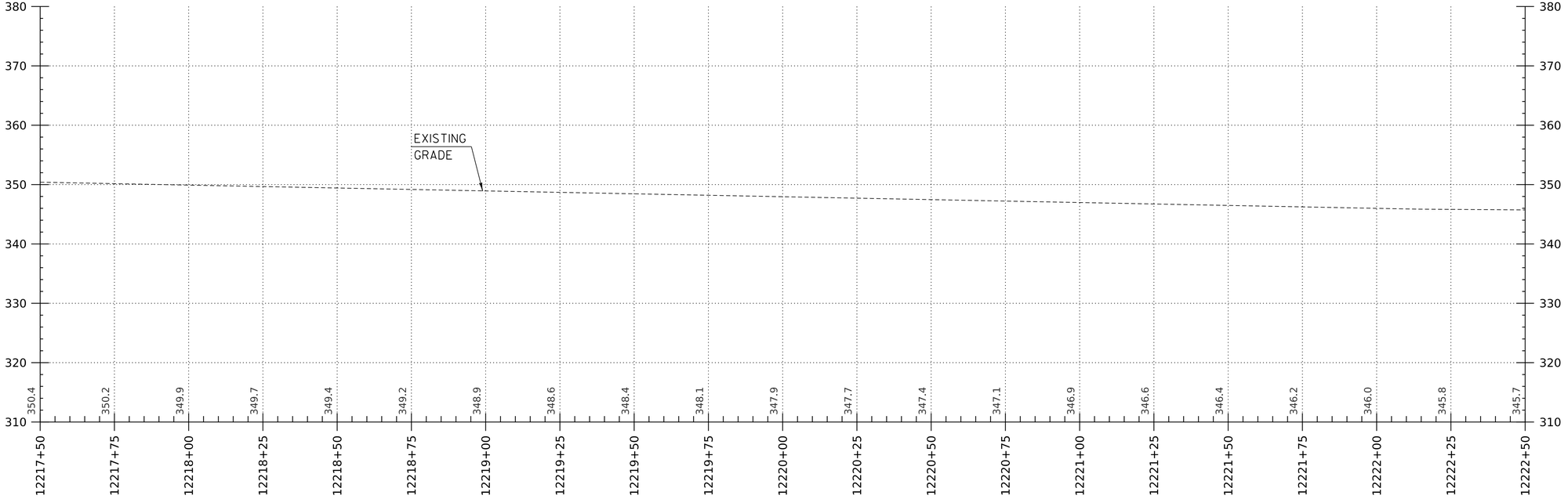


I-91 SB PROFILE

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 14	SHEET 107 OF 395

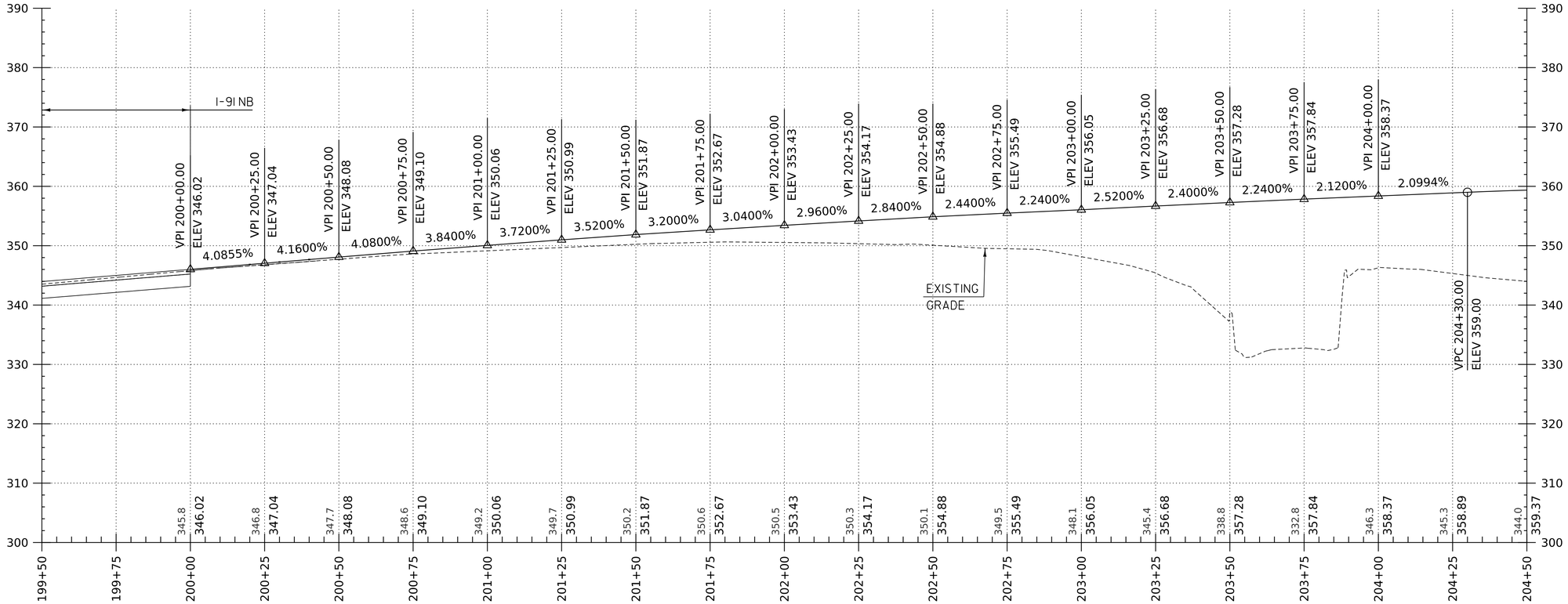


I-91 SB PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 15	SHEET 108 OF 395

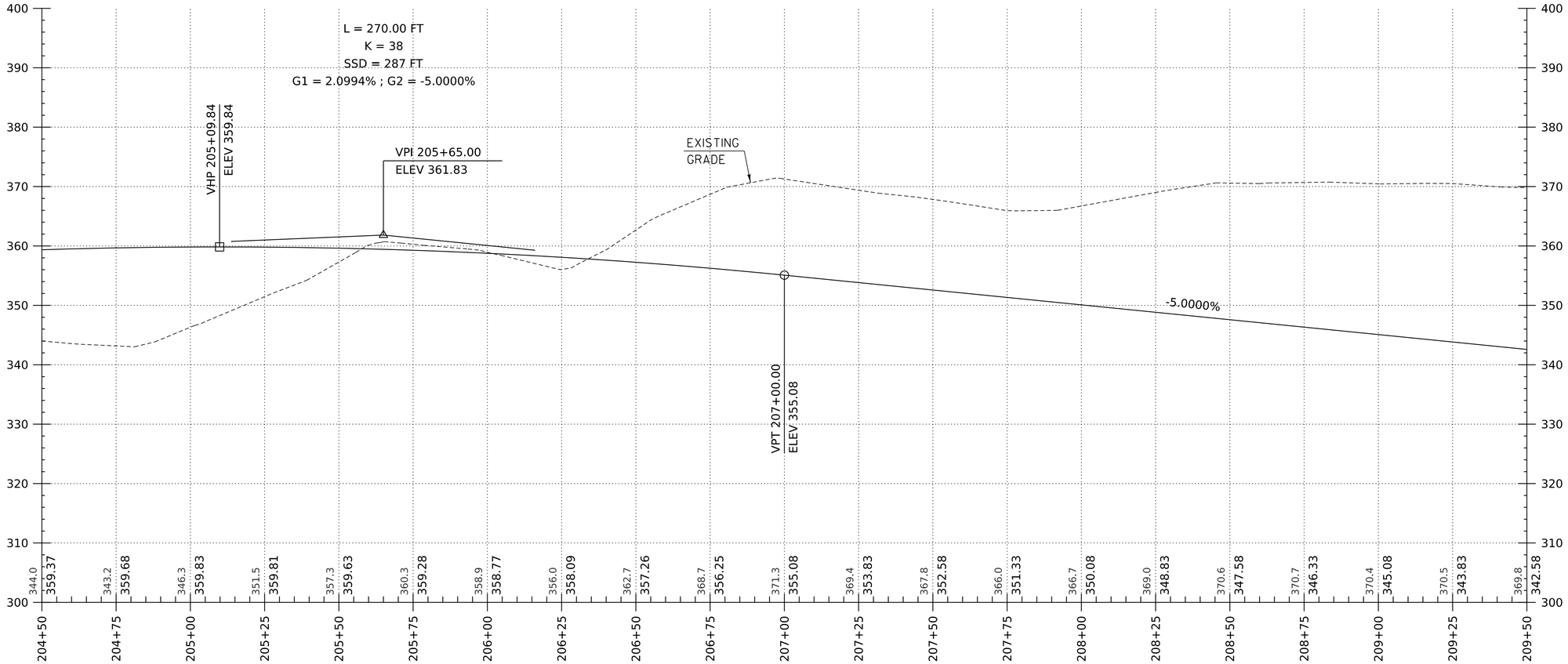


I-91 NB OFF RAMP PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB_Off_Ramp	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP PROFILE SHEET 1	SHEET 109 OF 395

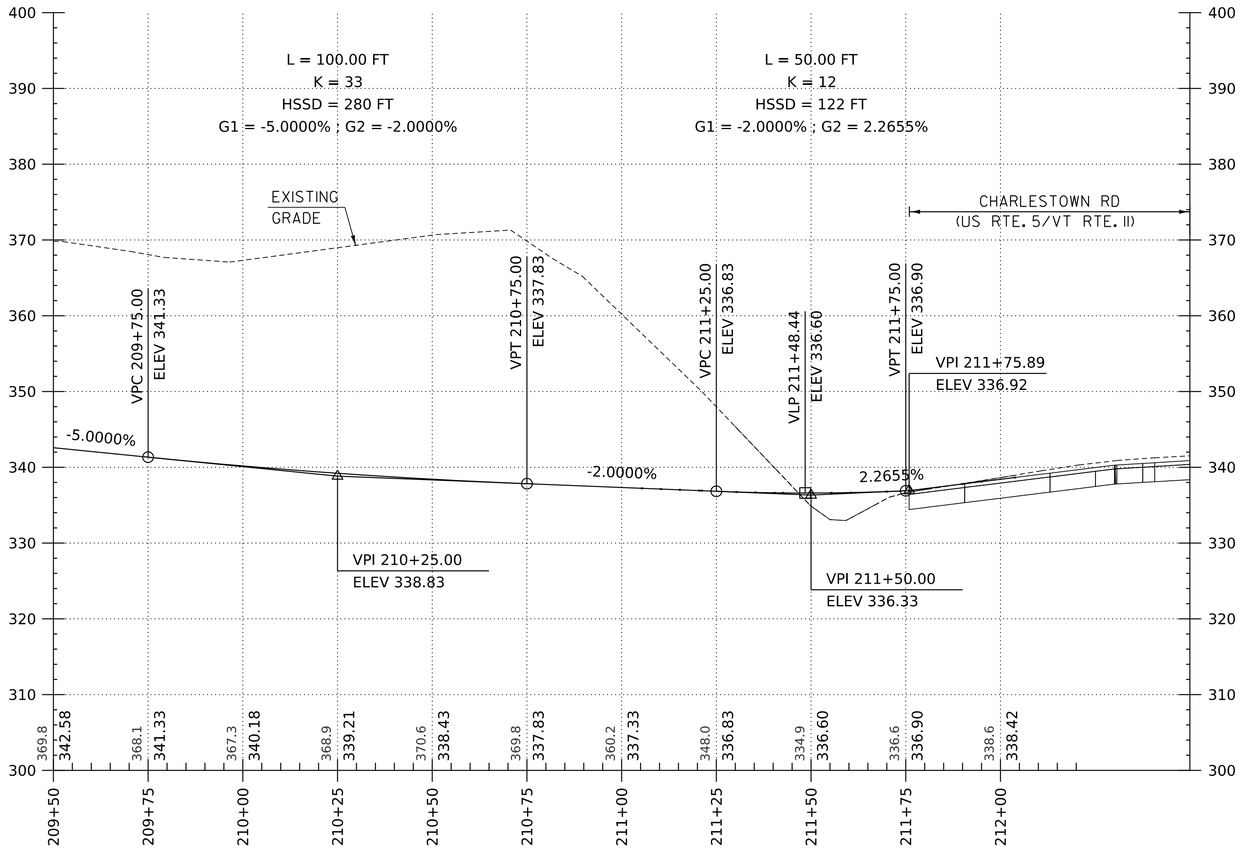


I-91 NB OFF RAMP PROFILE

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB_Off_Ramp	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP PROFILE SHEET 2	SHEET 110 OF 395

HNTB

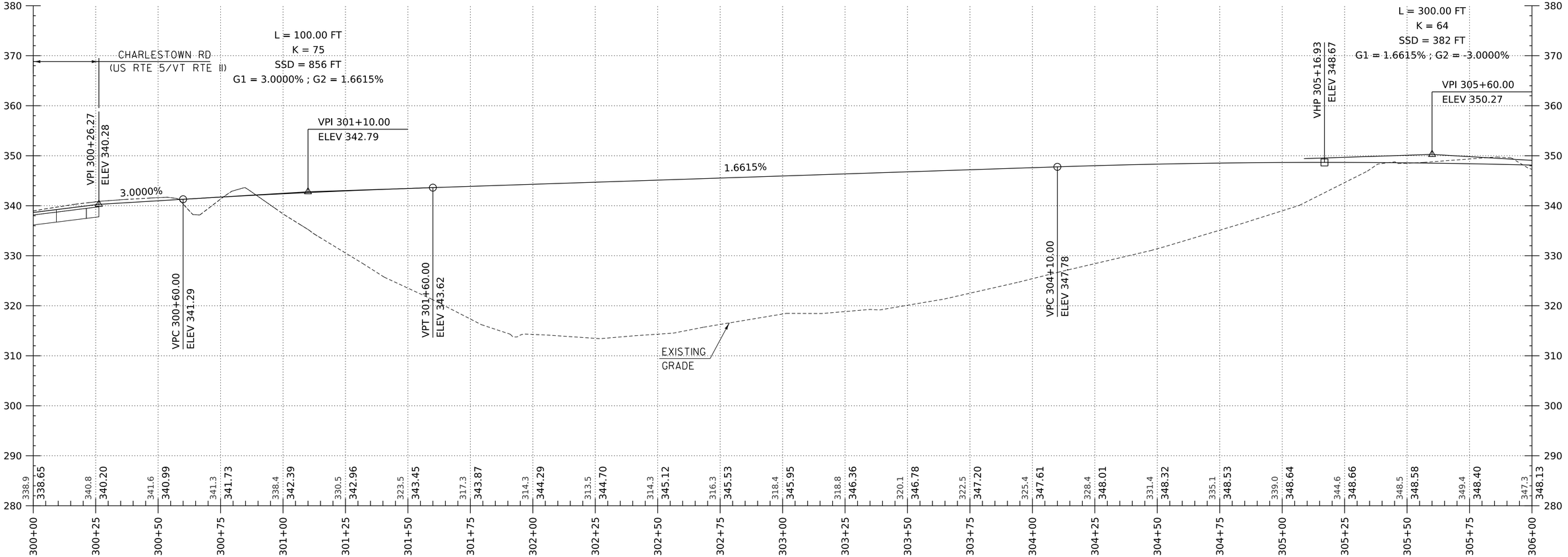


I-91 NB OFF RAMP PROFILE

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB_Off_Ramp	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP PROFILE SHEET 3	SHEET III OF 395

HNTB

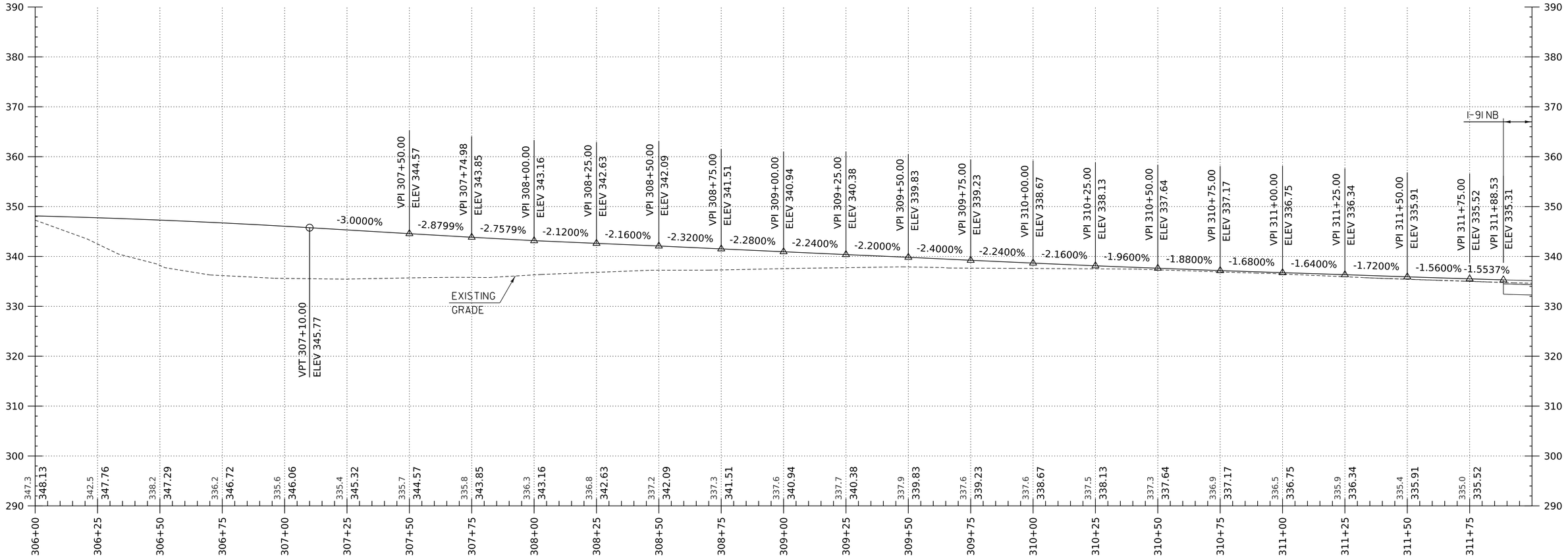


I-91 NB ON RAMP PROFILE

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574pro_I-91_NB_On_Ramp	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. Olund	DRAWN BY: C. Helmick
DESIGNED BY: C. Helmick	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP PROFILE SHEET 1	SHEET 112 OF 395

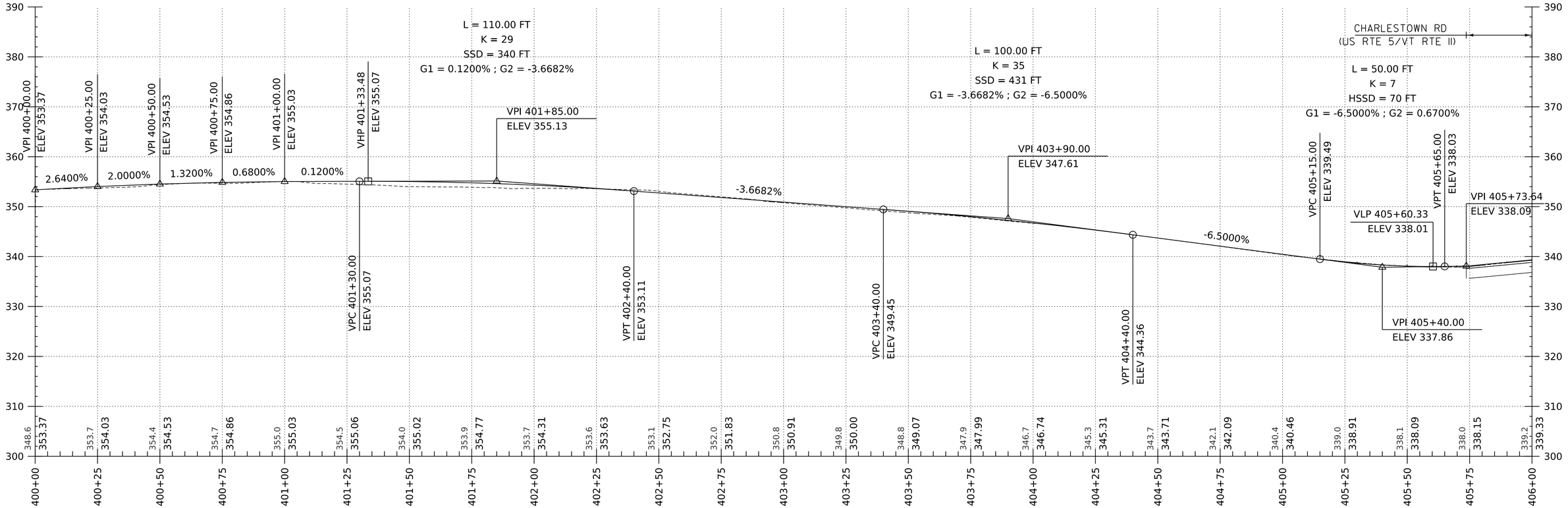


I-91 NB ON RAMP PROFILE

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB_On_Ramp	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP PROFILE SHEET 2	SHEET 113 OF 395

HNTB

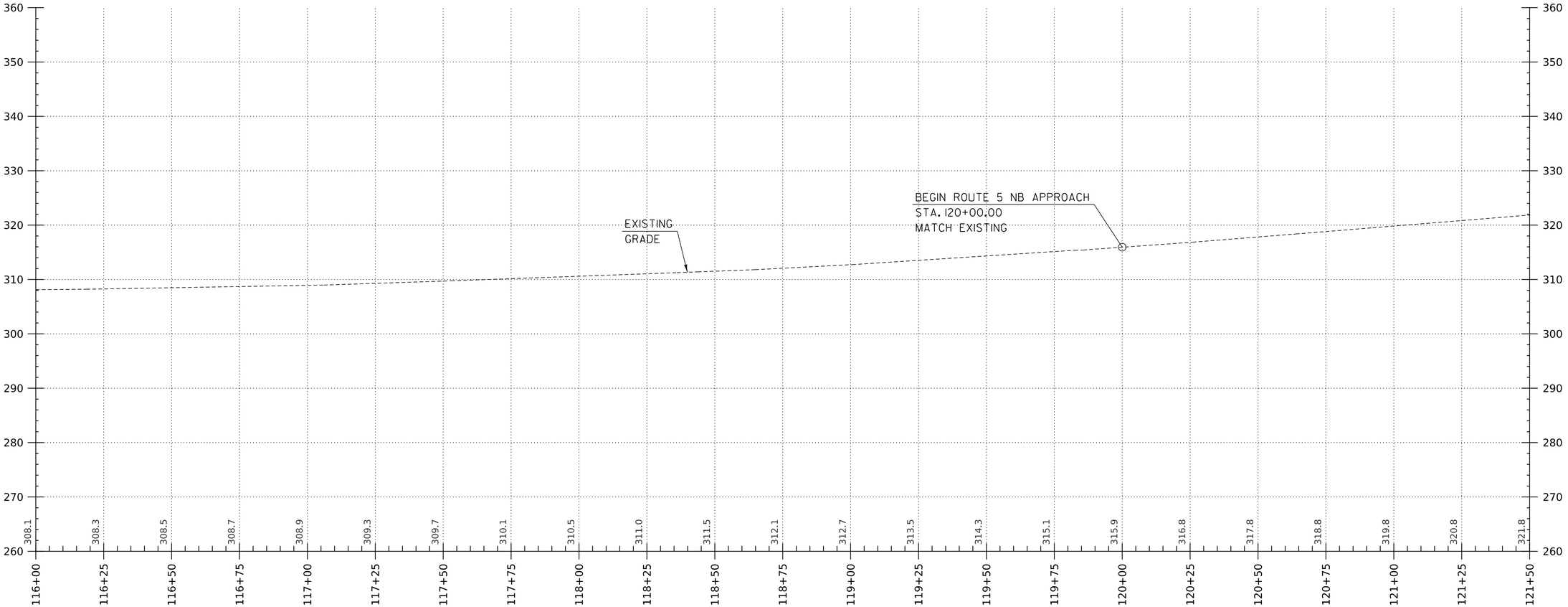


I-91 SB ON RAMP PROFILE

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	PROJECT NUMBER
FILE NAME: z12a574pro_I-91_SB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB ON RAMP PROFILE SHEET 1	SHEET 114 OF 395

HNTB

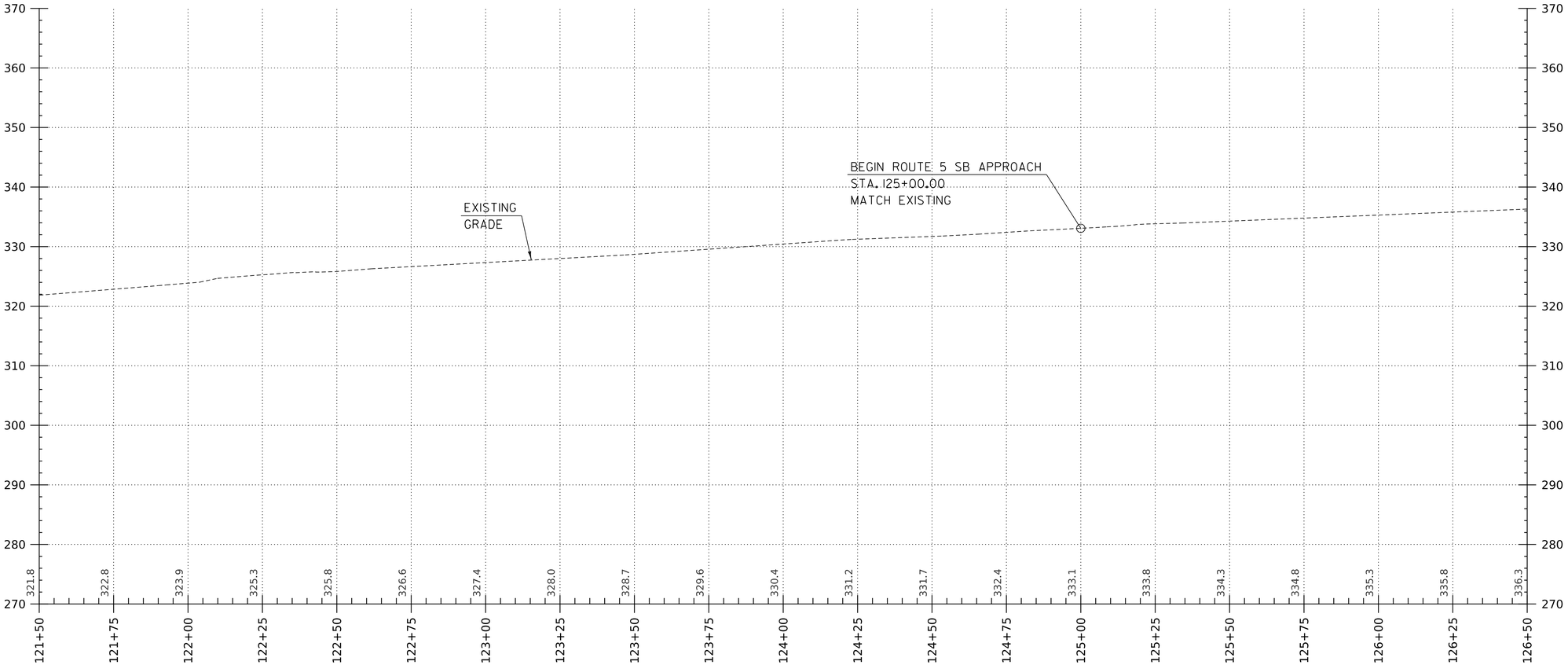


CHARLESTOWN ROAD (US ROUTE 5/VT 11) PROFILE

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_Charlestown_RD	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD PROFILE SHEET 1	SHEET 115 OF 395

HNTB

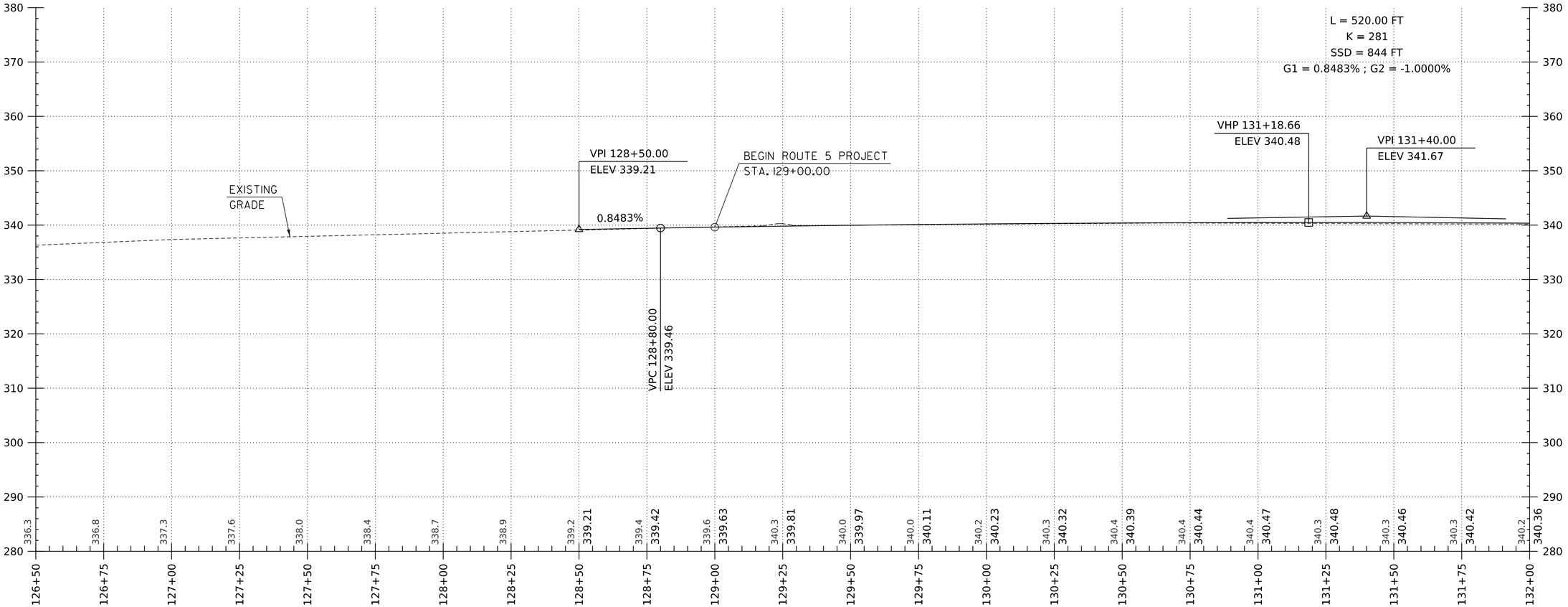


CHARLESTOWN ROAD (US ROUTE 5/VT 11) PROFILE

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_Charlestown_RD	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD PROFILE SHEET 2	SHEET 116 OF 395

HNTB

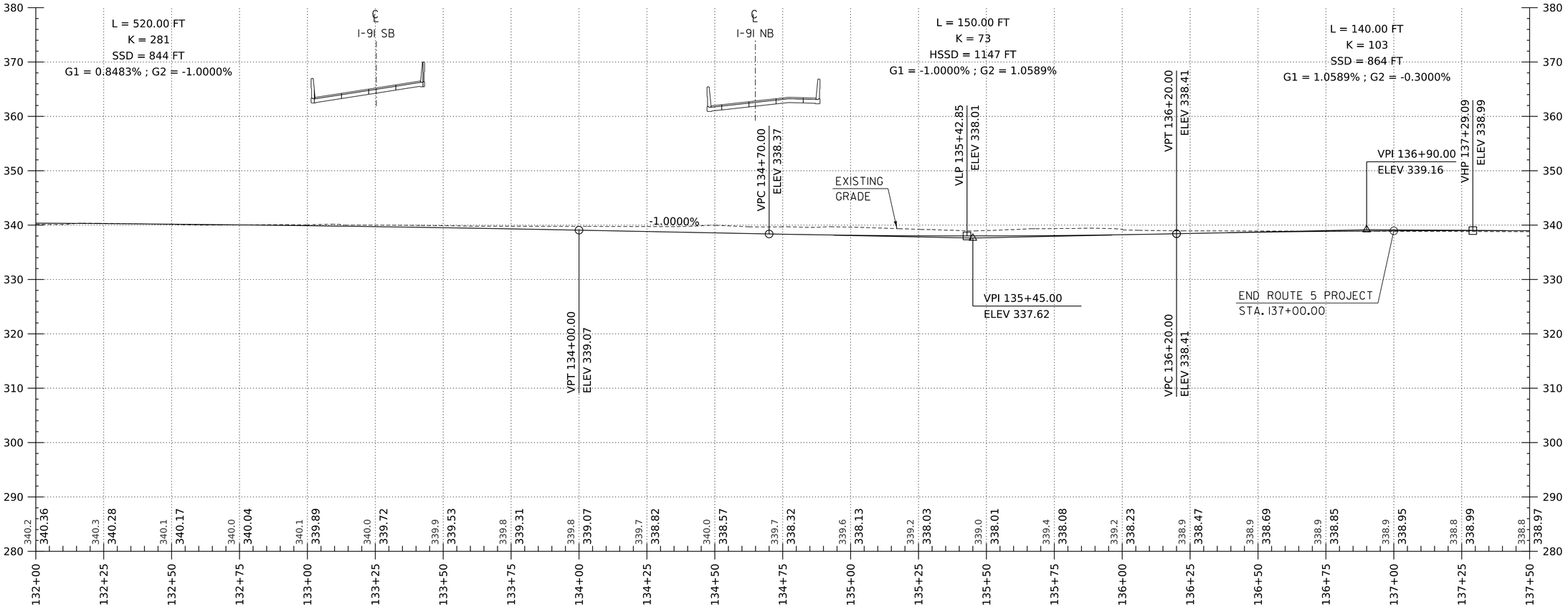


CHARLESTOWN ROAD (US ROUTE 5/VT 11) PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_Charlestown_RD	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD PROFILE SHEET 3	SHEET 117 OF 395

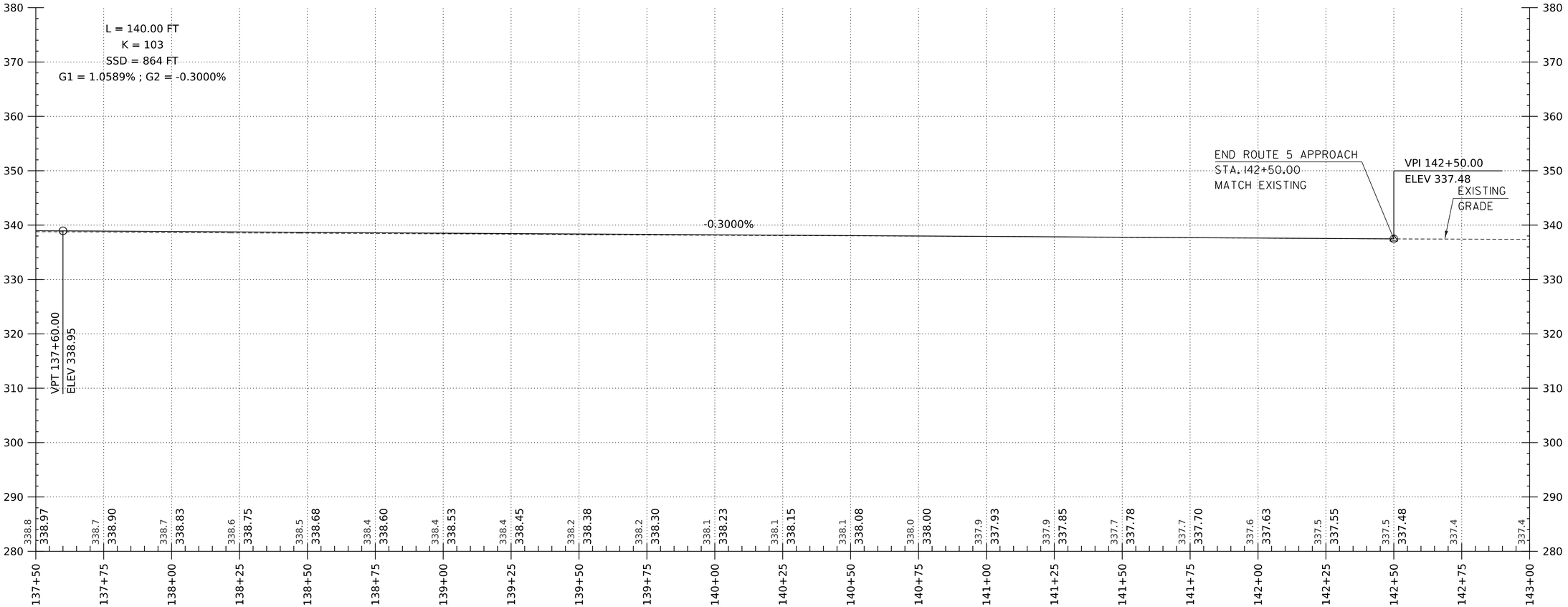


CHARLESTOWN ROAD (US ROUTE 5/VT 11) PROFILE

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_Charlestown_RD	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD PROFILE SHEET 4	SHEET 118 OF 395

HNTB

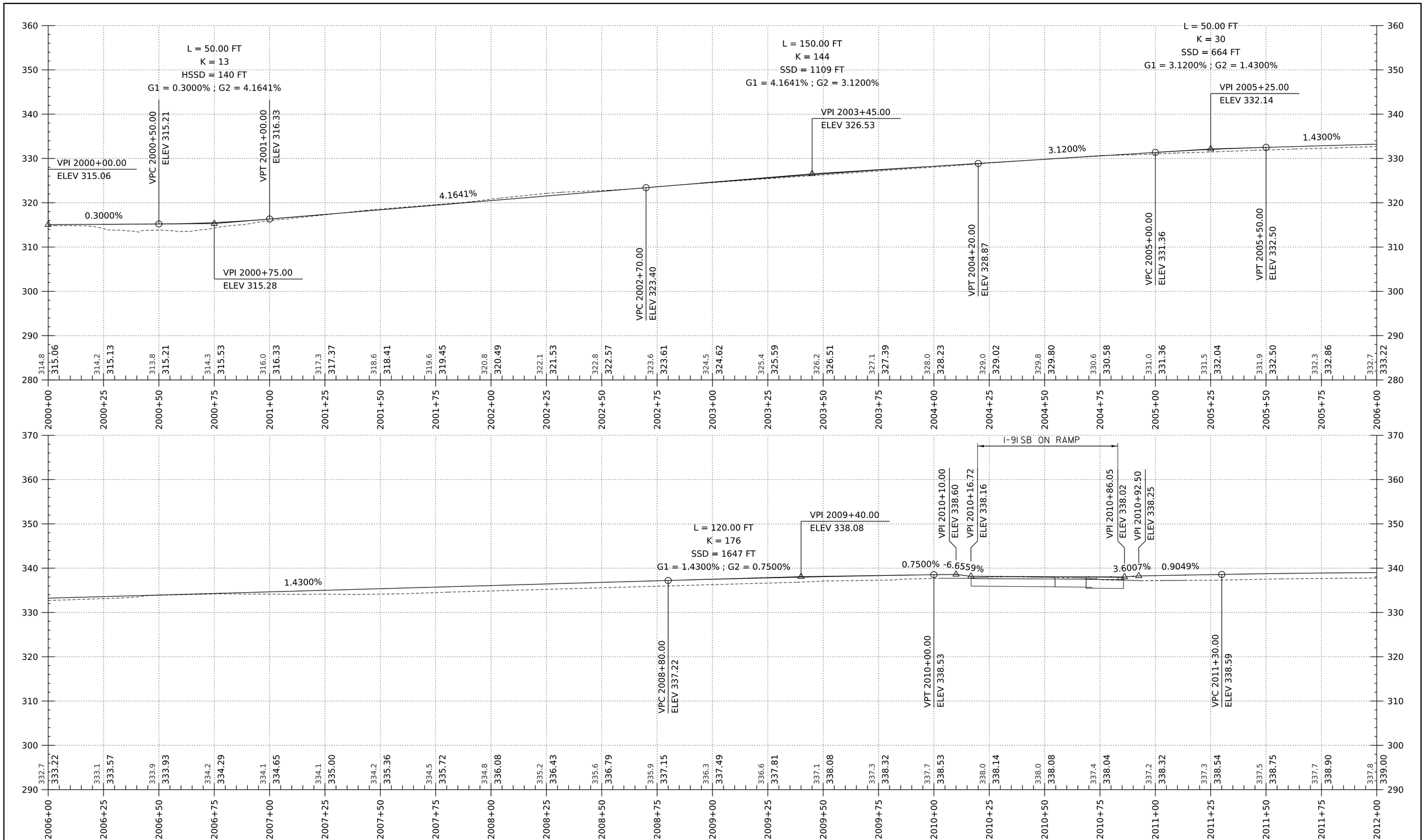


CHARLESTOWN ROAD (US ROUTE 5/VT 11) PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_Charlestown_RD	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD PROFILE SHEET 5	SHEET 119 OF 395

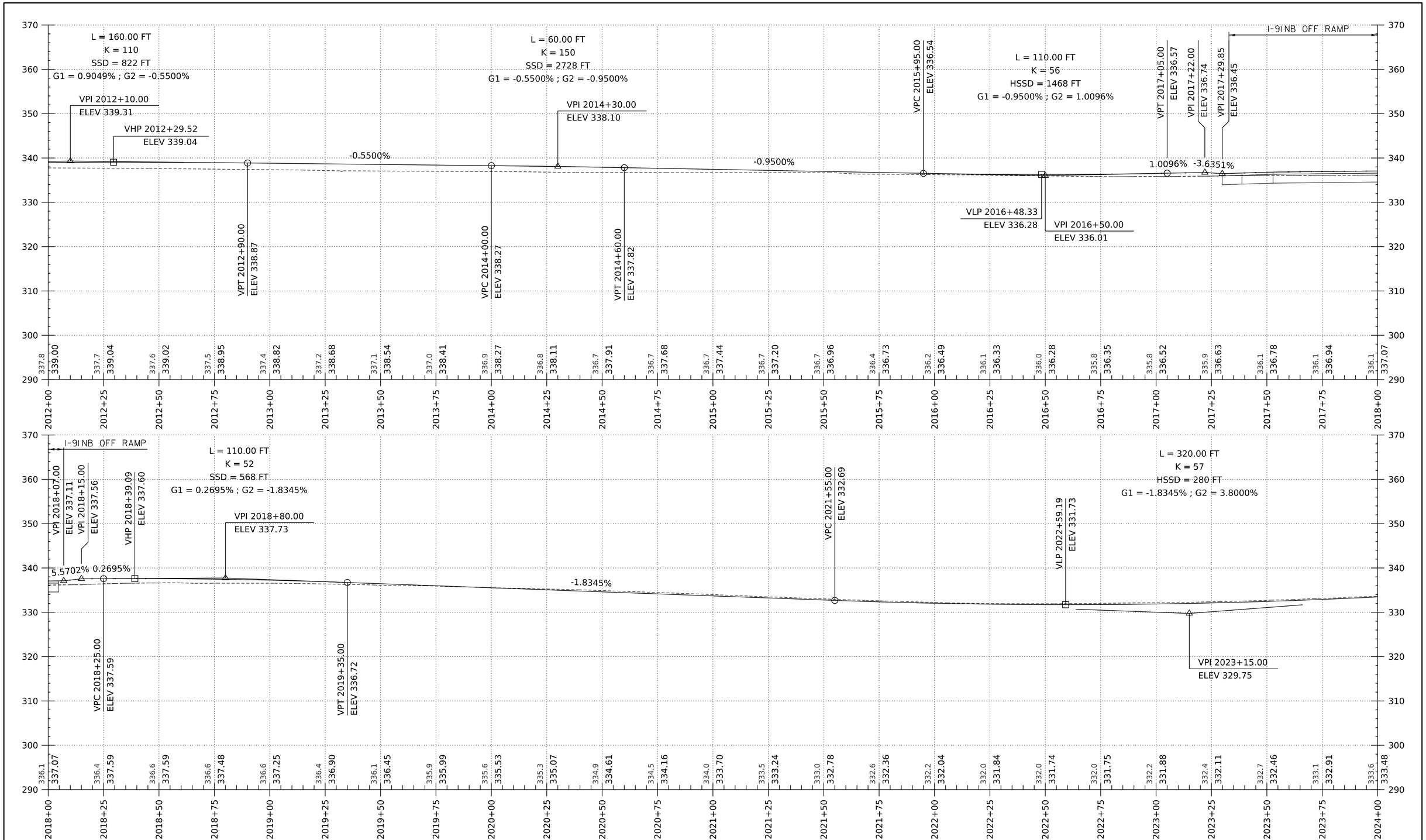


SHARED USE PATH PROFILE

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574pro_SUP.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
SHARED USE PATH PROFILE SHEET 1	SHEET 120 OF 395

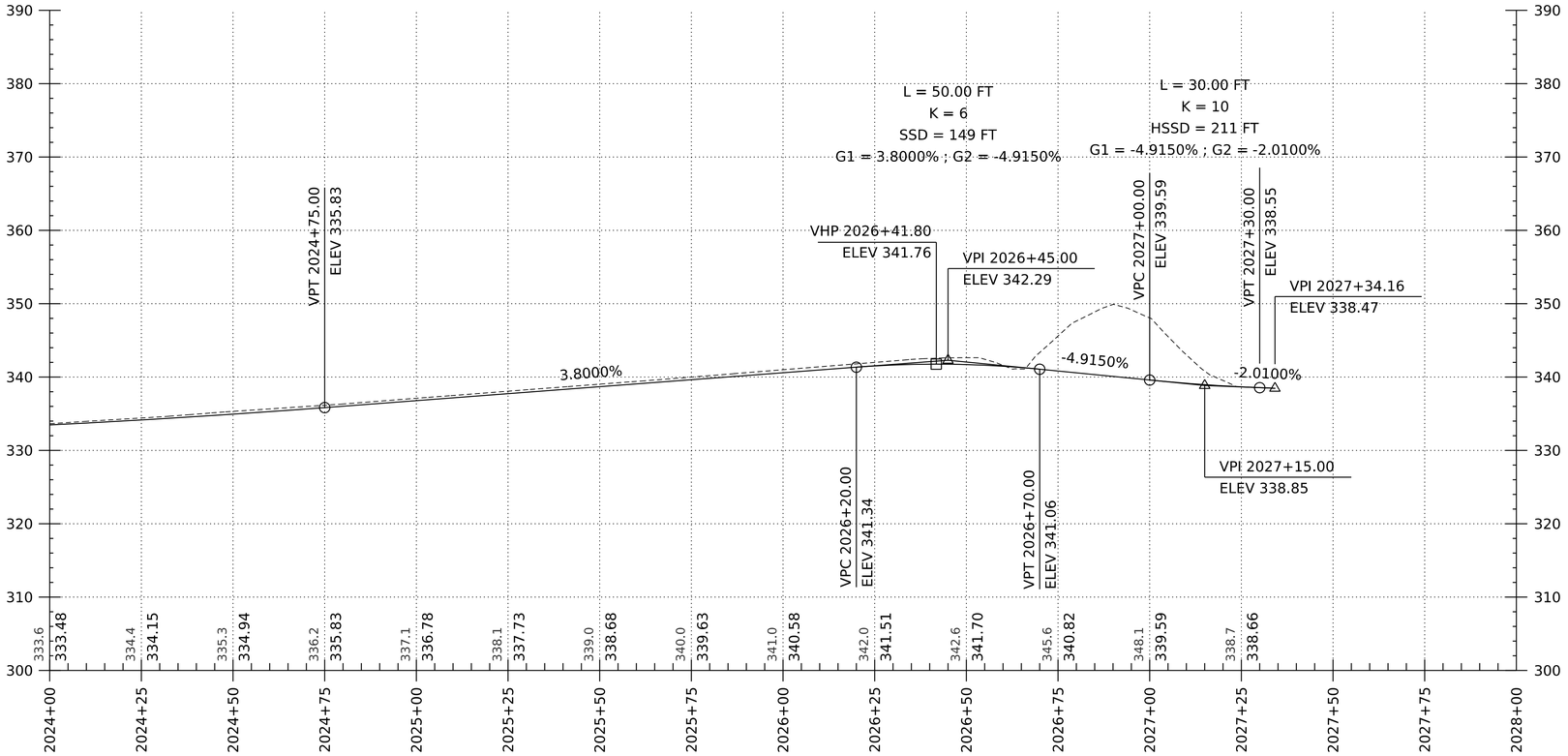


SHARED USE PATH PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574pro_SUP.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
SHARED USE PATH PROFILE SHEET 2	SHEET 121 OF 395

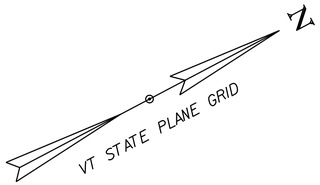


SHARED USE PATH PROFILE

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_SUP.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
SHARED USE PATH PROFILE SHEET 3	SHEET 122 OF 395

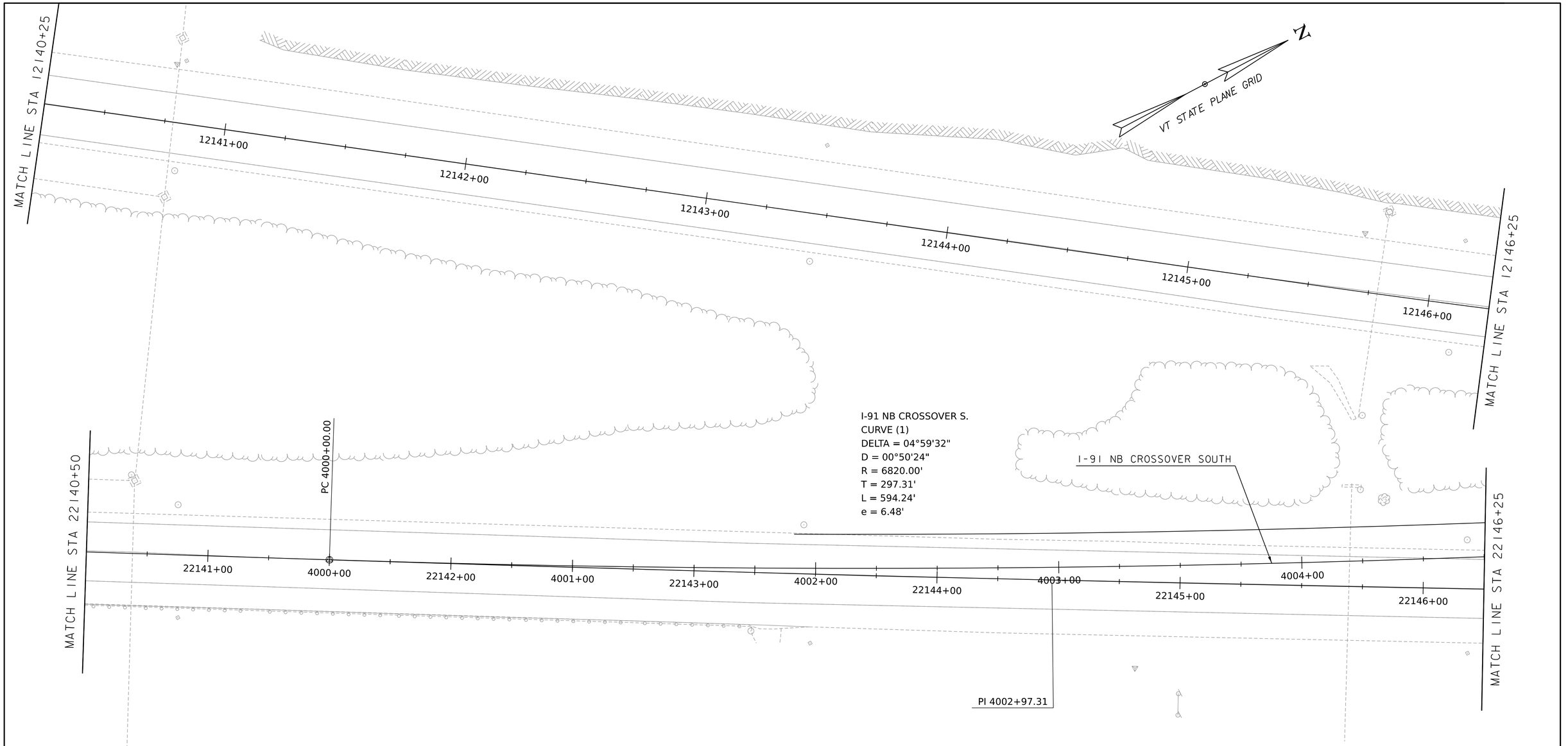


I-91 NORTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 1	SHEET 123 OF 395

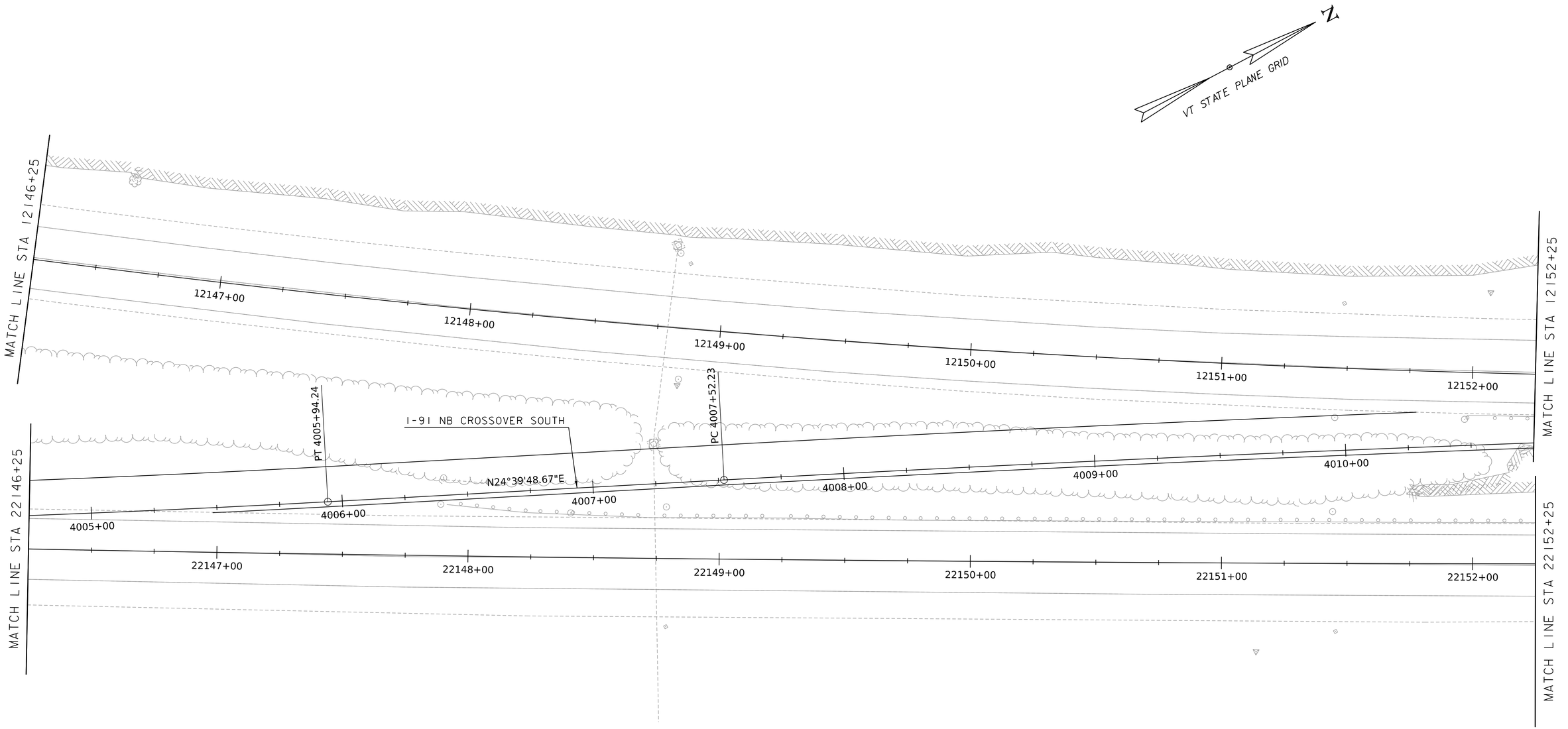


I-91 NORTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 2	SHEET 124 OF 395



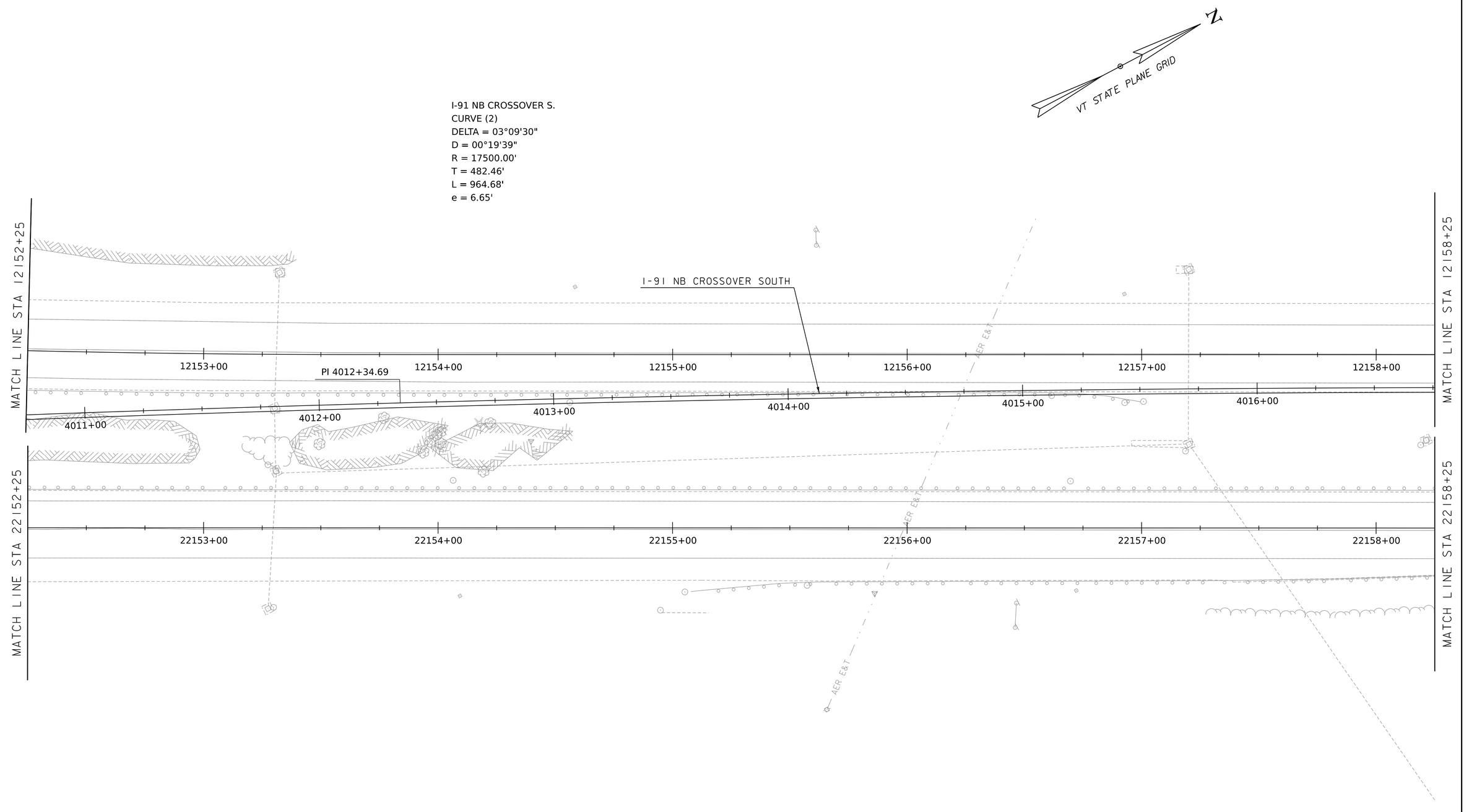
I-91 NORTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 3	SHEET 125 OF 395

I-91 NB CROSSOVER S.
CURVE (2)
DELTA = 03°09'30"
D = 00°19'39"
R = 17500.00'
T = 482.46'
L = 964.68'
e = 6.65'



I-91 NORTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 4	SHEET 126 OF 395

N

VT STATE PLANE GRID

I-91 NB CROSSOVER SOUTH

MATCH LINE STA 12158+25

MATCH LINE STA 12164+25

12159+00 12160+00 12161+00 12162+00 12163+00 12164+00

4017+00

PT 4017+16.91

1089+00 1090+00 1091+00

MATCH LINE STA 22158+25

MATCH LINE STA 22164+25

22159+00 22160+00 22161+00 22162+00 22163+00 22164+00

1086+00 1087+00 1088+00

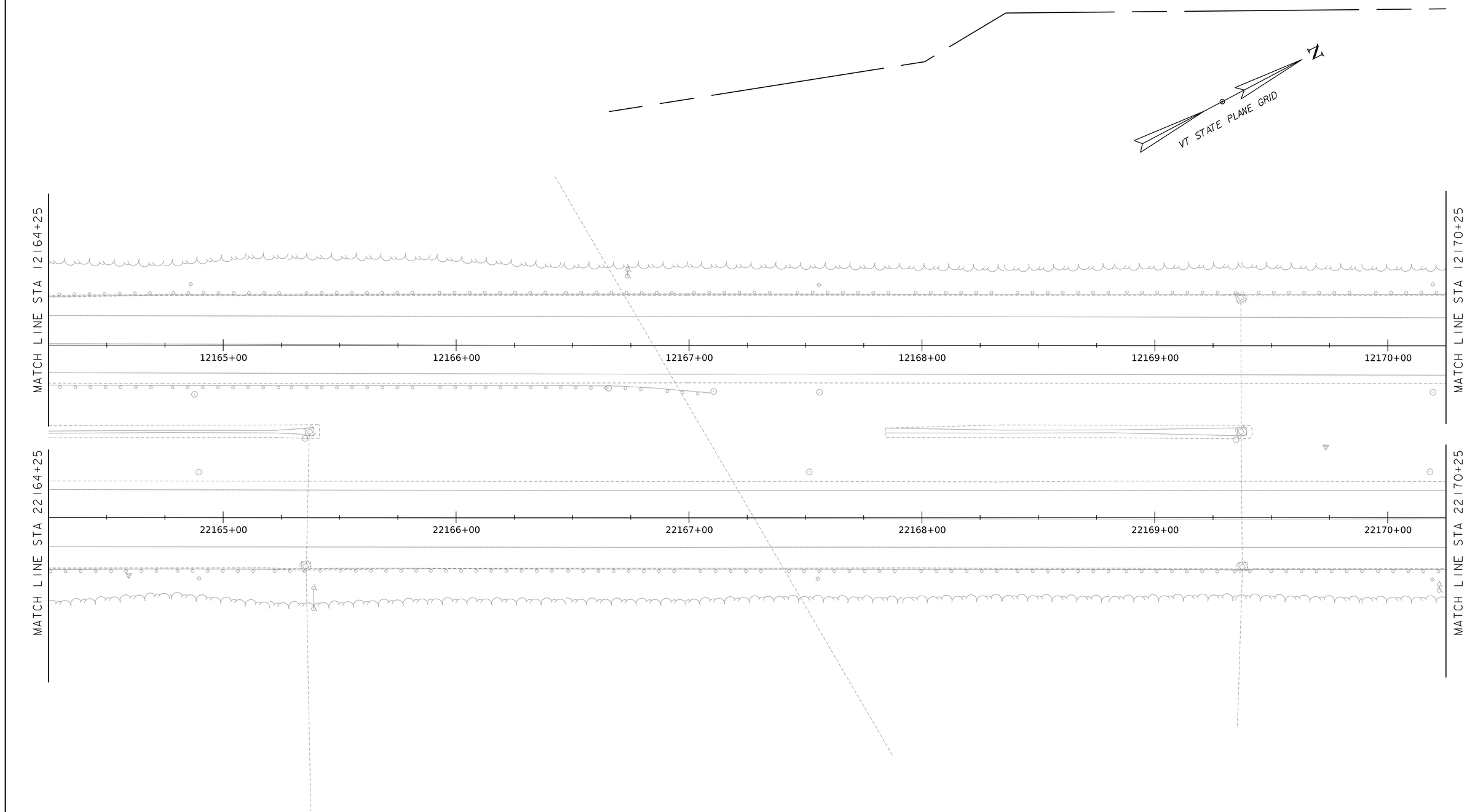
I-91 NORTHBOUND CROSSOVER PLAN

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 5	SHEET 127 OF 395

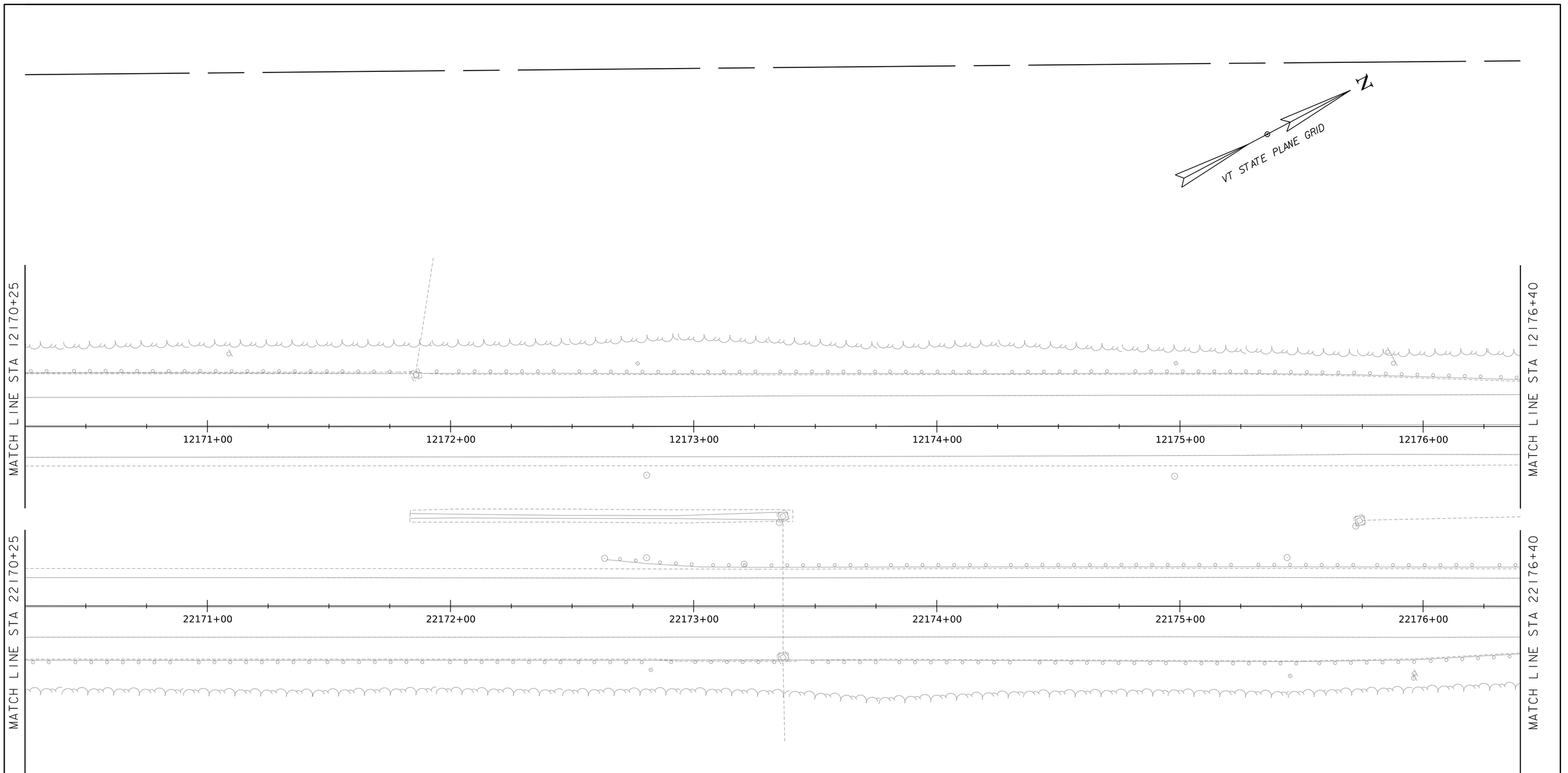


I-91 NORTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 6	SHEET 128 OF 395

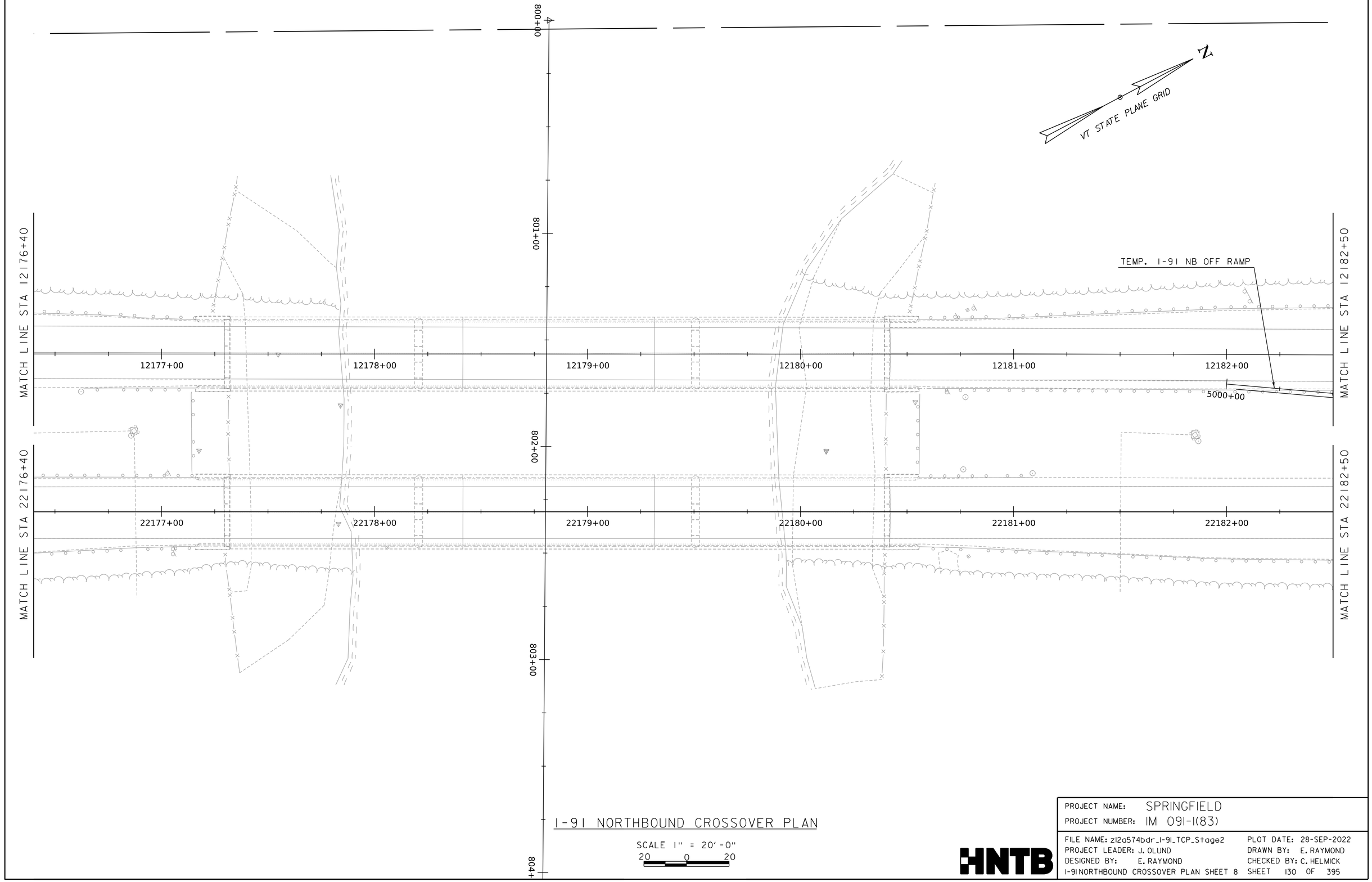


I-91 NORTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 7	SHEET 129 OF 395

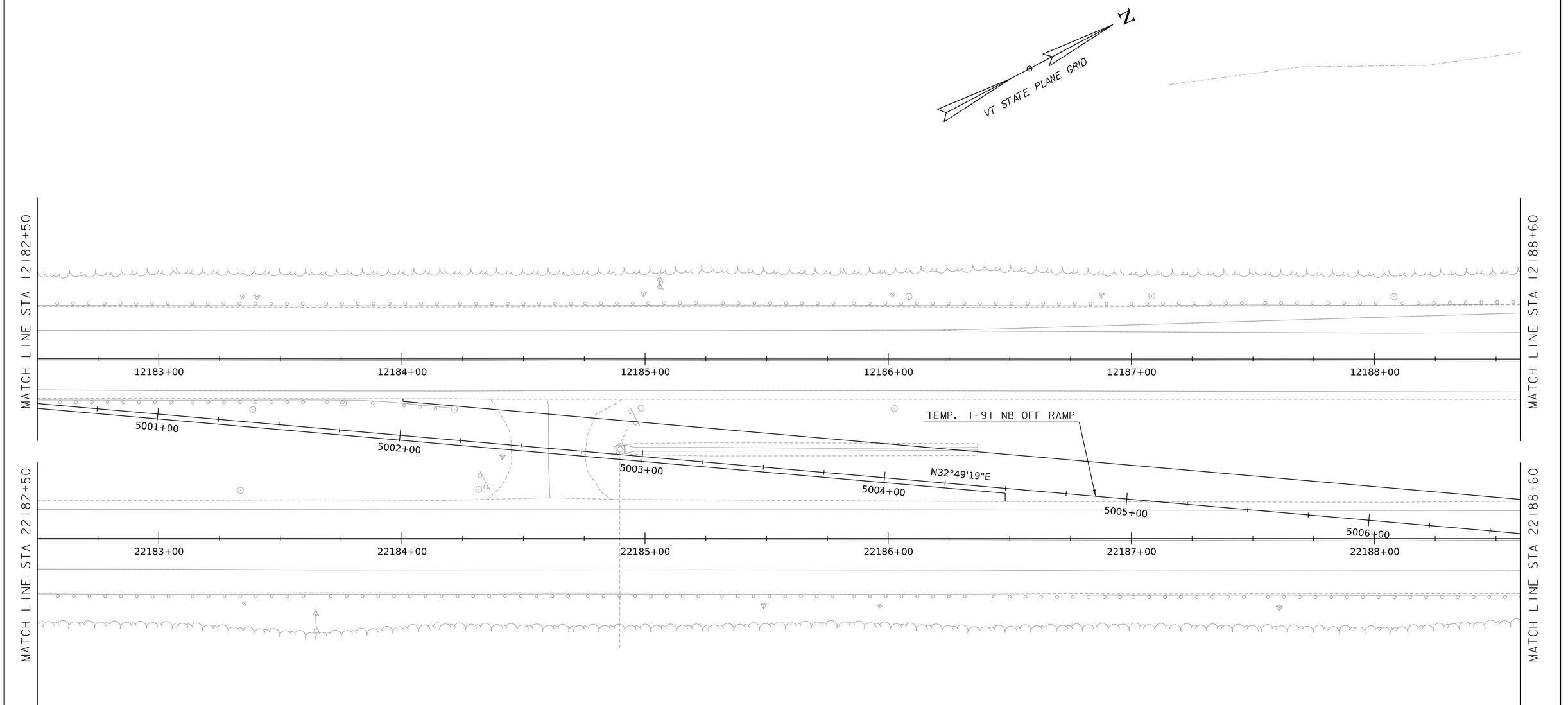


I-91 NORTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 8	SHEET 130 OF 395



I-91 NORTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 9	SHEET 131 OF 395

N

VT STATE PLANE GRID

MATCH LINE STA 12188+60

MATCH LINE STA 22188+60

STA 400+75

STA 12194+50

STA 22194+50

STA 204+25

12189+00
12190+00
12191+00
12192+00
12193+00
400+00
12194+00

22189+00
22190+00
22191+00
22192+00
22193+00
22194+00

5007+00
5008+00
5009+00
200+00
201+00
5010+00
202+00
203+00
204+00

TEMP. I-91 NB OFF RAMP

PC 5008+61.81

PI 5009+61.82

PT 5010+61.71

TEMP. I-91 NB OFF RAMP
CURVE (1)
DELTA = 05°00'05"
D = 02°30'07"
R = 2290.00'
T = 100.01'
L = 199.90'
e = 2.18'

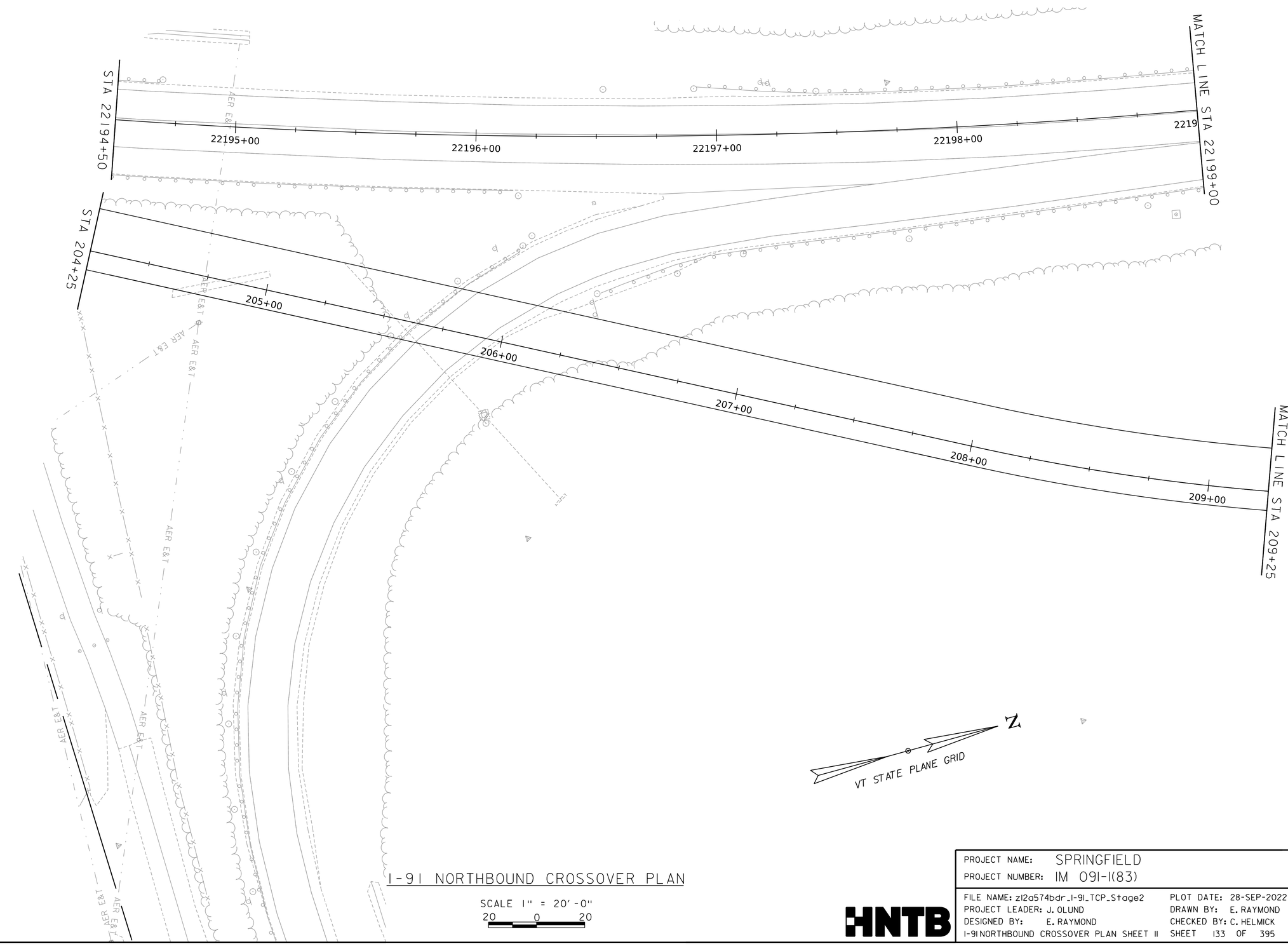
I-91 NORTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_I-91_TCP_Stage2 | PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND | DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND | CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 10 | SHEET 132 OF 395



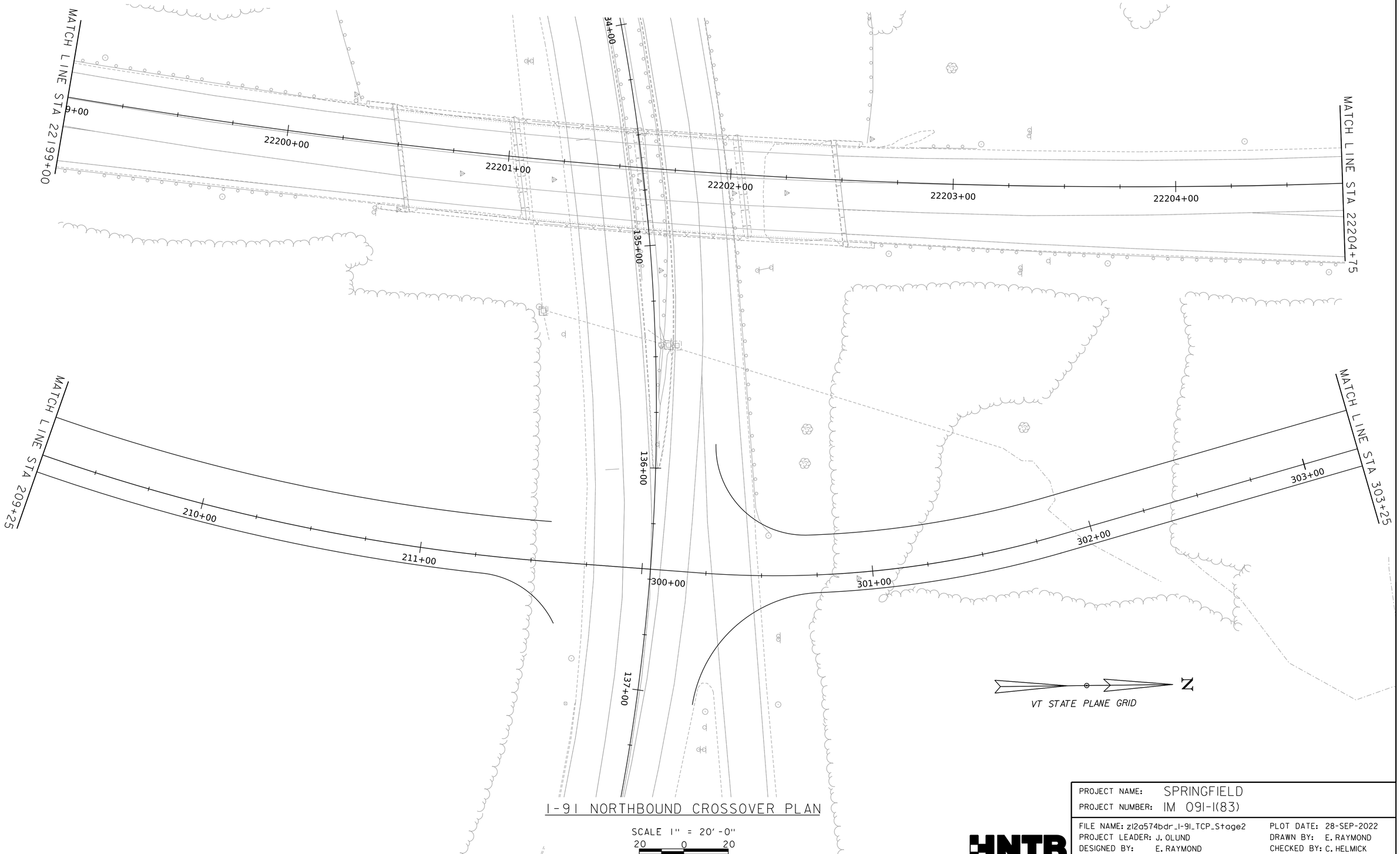
I-91 NORTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 11	SHEET 133 OF 395



I-91 NORTHBOUND CROSSOVER PLAN

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 12	SHEET 134 OF 395

HNTB

MATCH L INE STA 6005+50

N08°06'05"E

6006+00

PC 6006+90.30

6007+00

6008+00

I-91 NB CROSSOVER NORTH

MATCH L INE STA 2221O+50

MATCH L INE STA 22204+75

22205+00

22206+00

22207+00

22208+00

22209+00

22210+00

MATCH LINE STA 303+25

304+00

305+00

306+00

307+00

308+00

309+00

MATCH L INE STA 309+25

909+00

910+00

911+00

912+00

913+00

914+00

VT STATE PLANE GRID

N

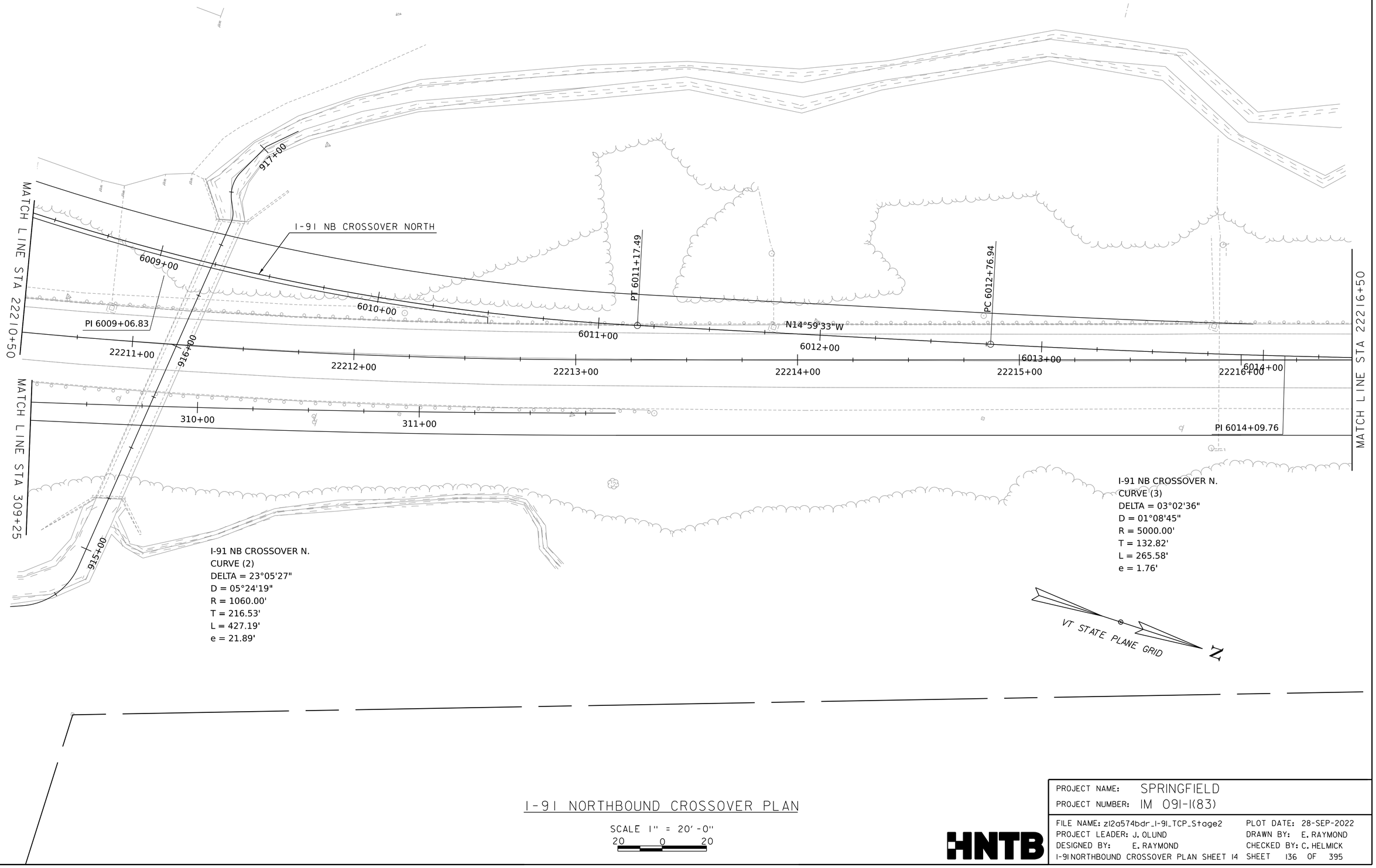
I-91 NORTHBOUND CROSSOVER PLAN

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 13	SHEET 135 OF 395

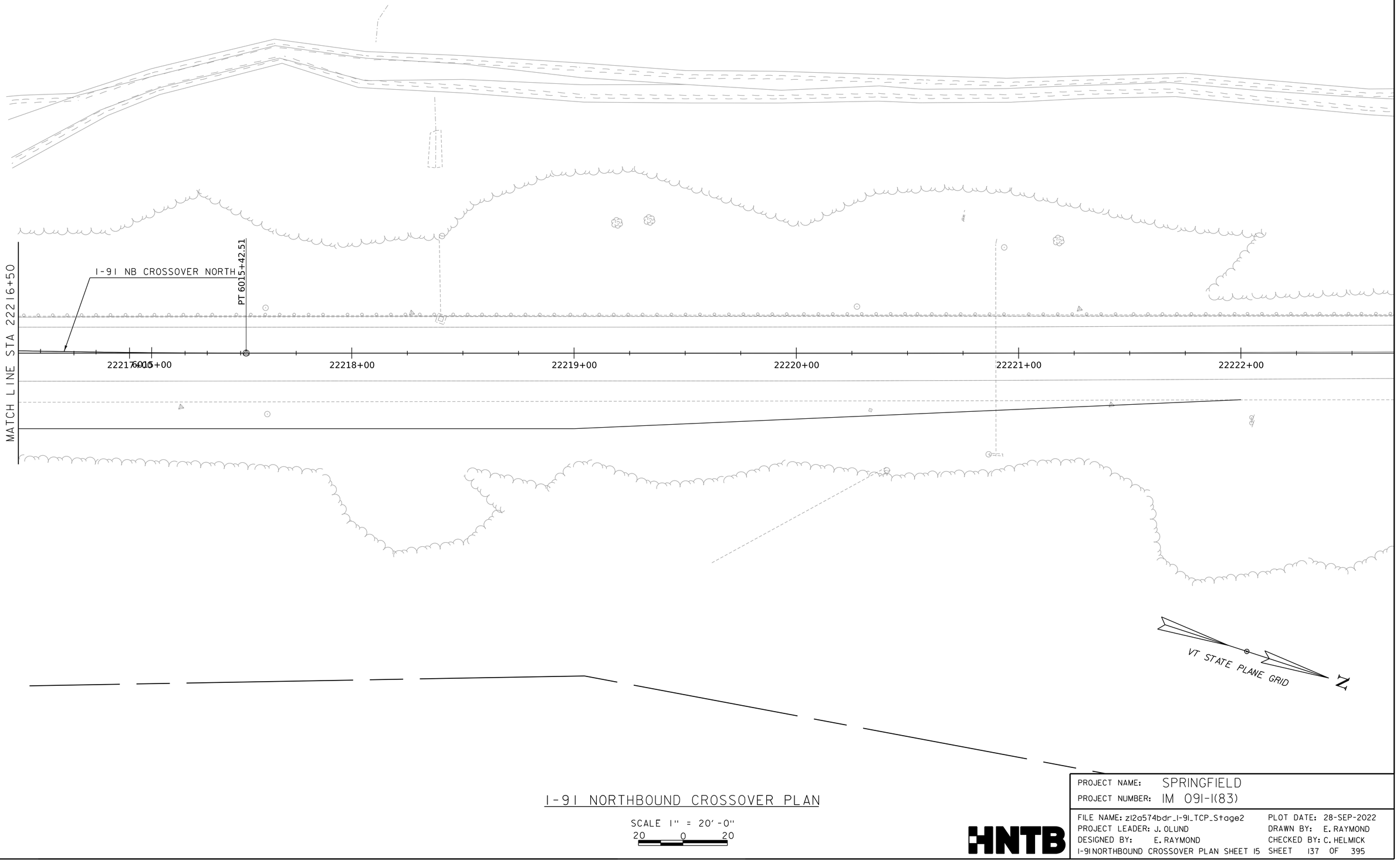


I-91 NORTHBOUND CROSSOVER PLAN

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 14	SHEET 136 OF 395

HNTB

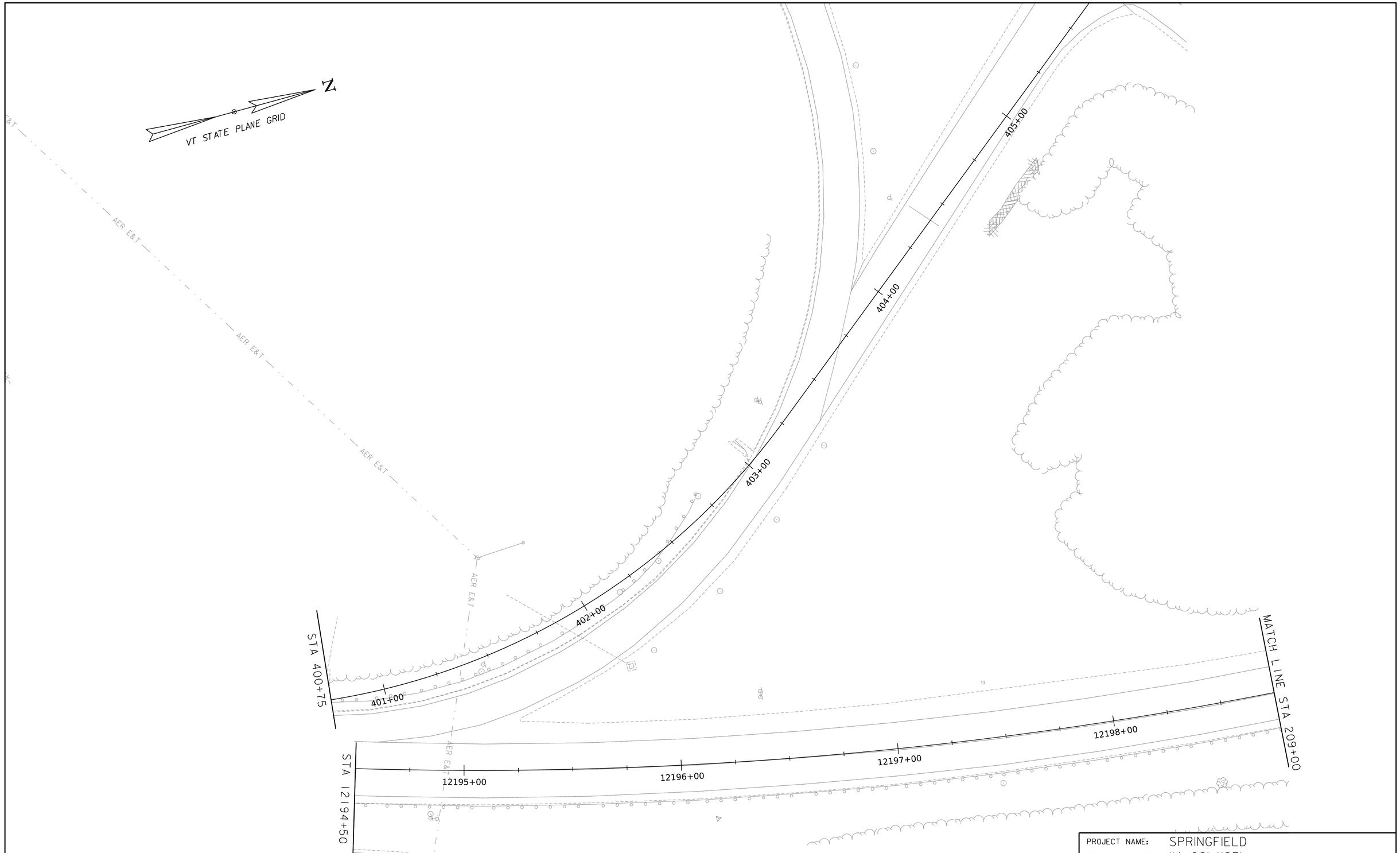


I-91 NORTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 15	SHEET 137 OF 395



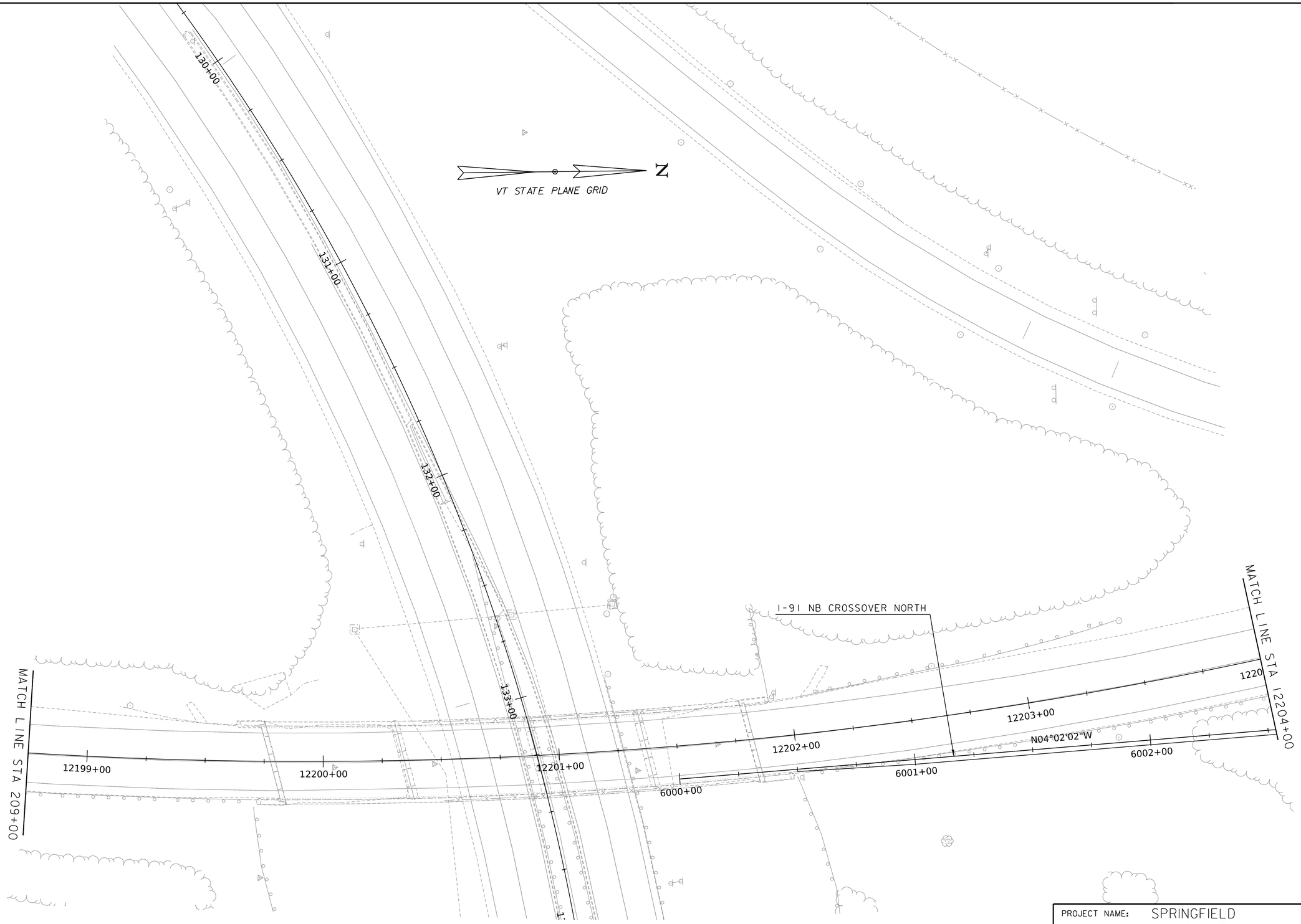
I-91 NORTHBOUND CROSSOVER PLAN

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 16	SHEET 138 OF 395

HNTB

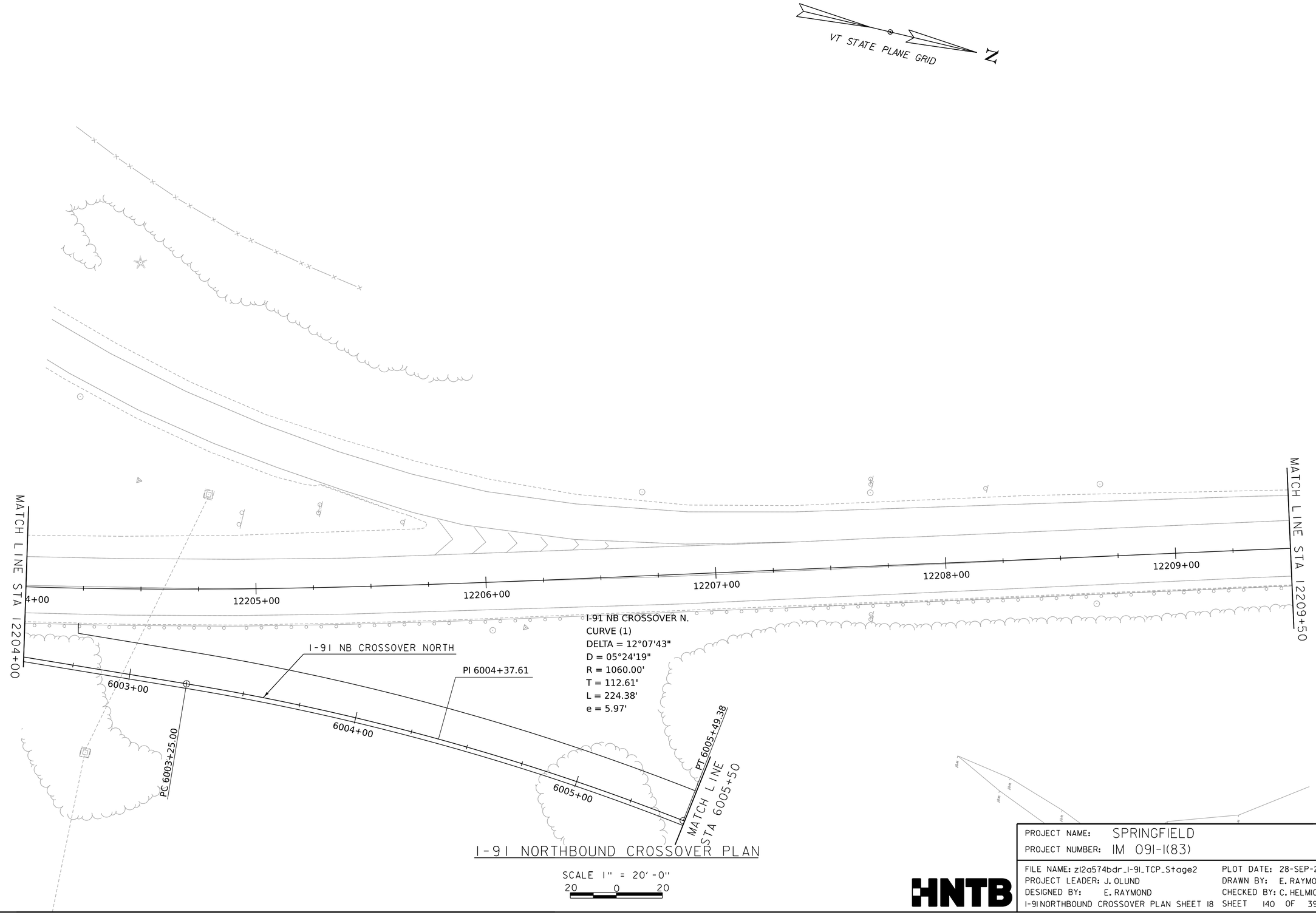


I-91 NORTHBOUND CROSSOVER PLAN

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 17	SHEET 139 OF 395

HNTB

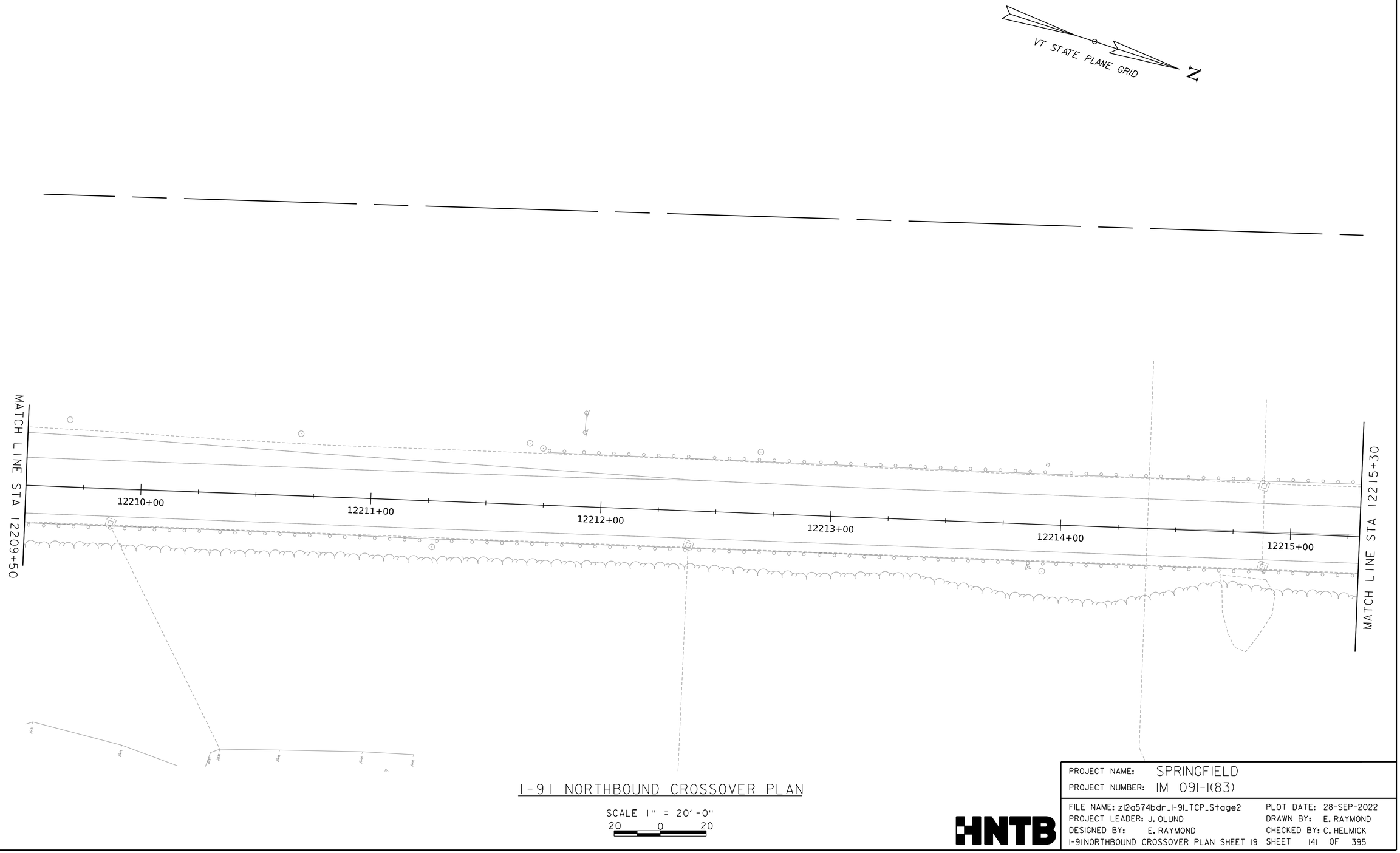


I-91 NORTHBOUND CROSSOVER PLAN

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 18	SHEET 140 OF 395

HNTB



I-91 NORTHBOUND CROSSOVER PLAN

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 19	SHEET 141 OF 395

VT STATE PLANE GRID

N

MATCH LINE STA 12215+30

12216+00

12217+00

12218+00

12219+00

12220+00

12221+00

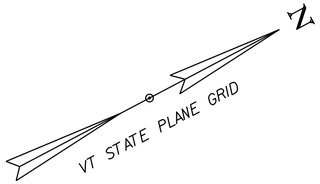
I-91 NORTHBOUND CROSSOVER PLAN

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574bdr_I-91_TCP_Stage2	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 NORTHBOUND CROSSOVER PLAN SHEET 20	SHEET 142 OF 395



12137+00
12138+00
12139+00
12140+00
MATCH LINE STA 12140+25

22135+00
22136+00
22137+00
22138+00
22139+00
22140+00
MATCH LINE STA 22140+50

I-91 SOUTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 1	SHEET 143 OF 395

MATCH LINE STA 12140+25

12141+00

12142+00

12143+00

12144+00

12145+00

7000+00

12146+00

MATCH LINE STA 12146+25

N

VT STATE PLANE GRID

MATCH LINE STA 22140+50

22141+00

22142+00

22143+00

22144+00

22145+00

22146+00

MATCH LINE STA 22146+25

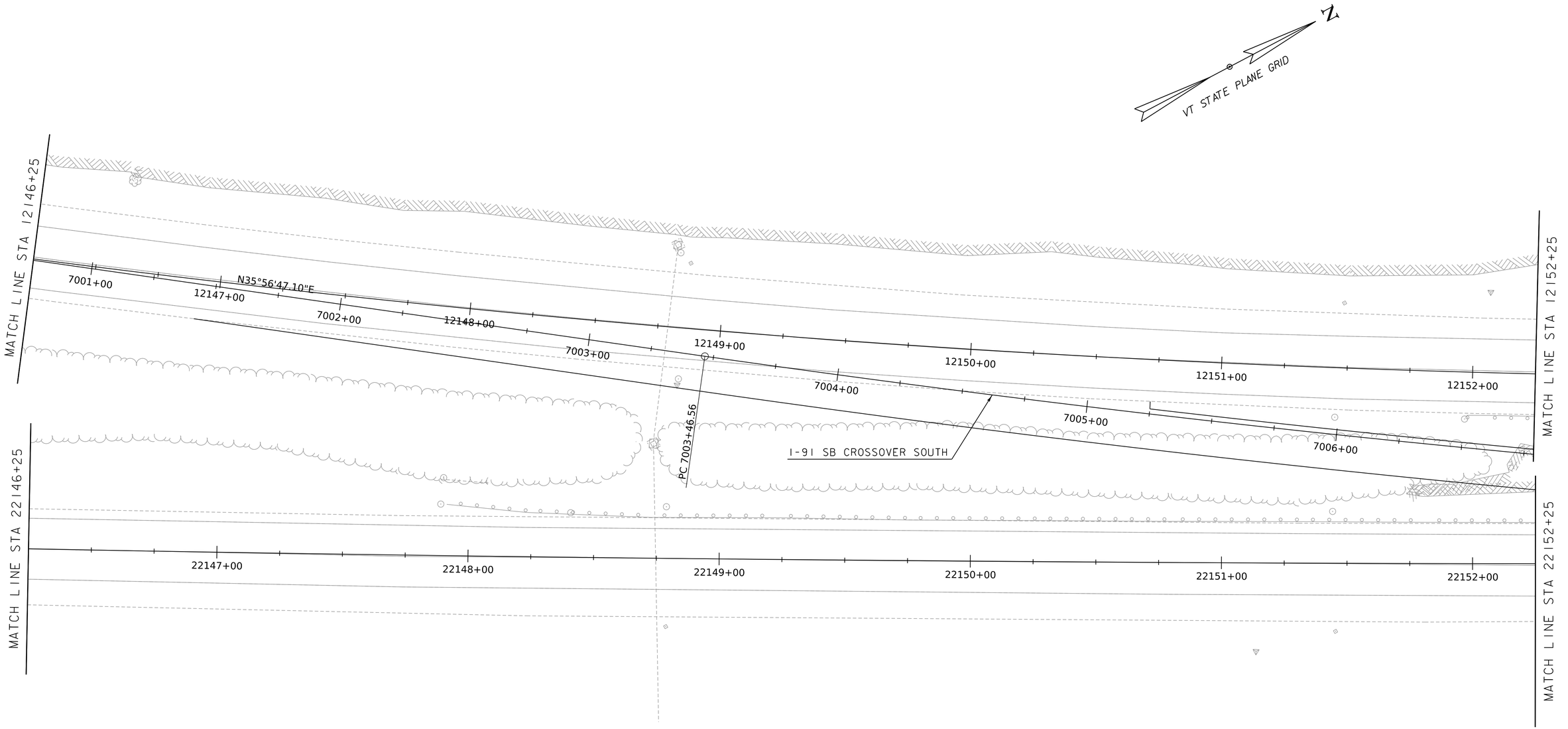
I-91 SOUTHBOUND CROSSOVER PLAN

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 2	SHEET 144 OF 395

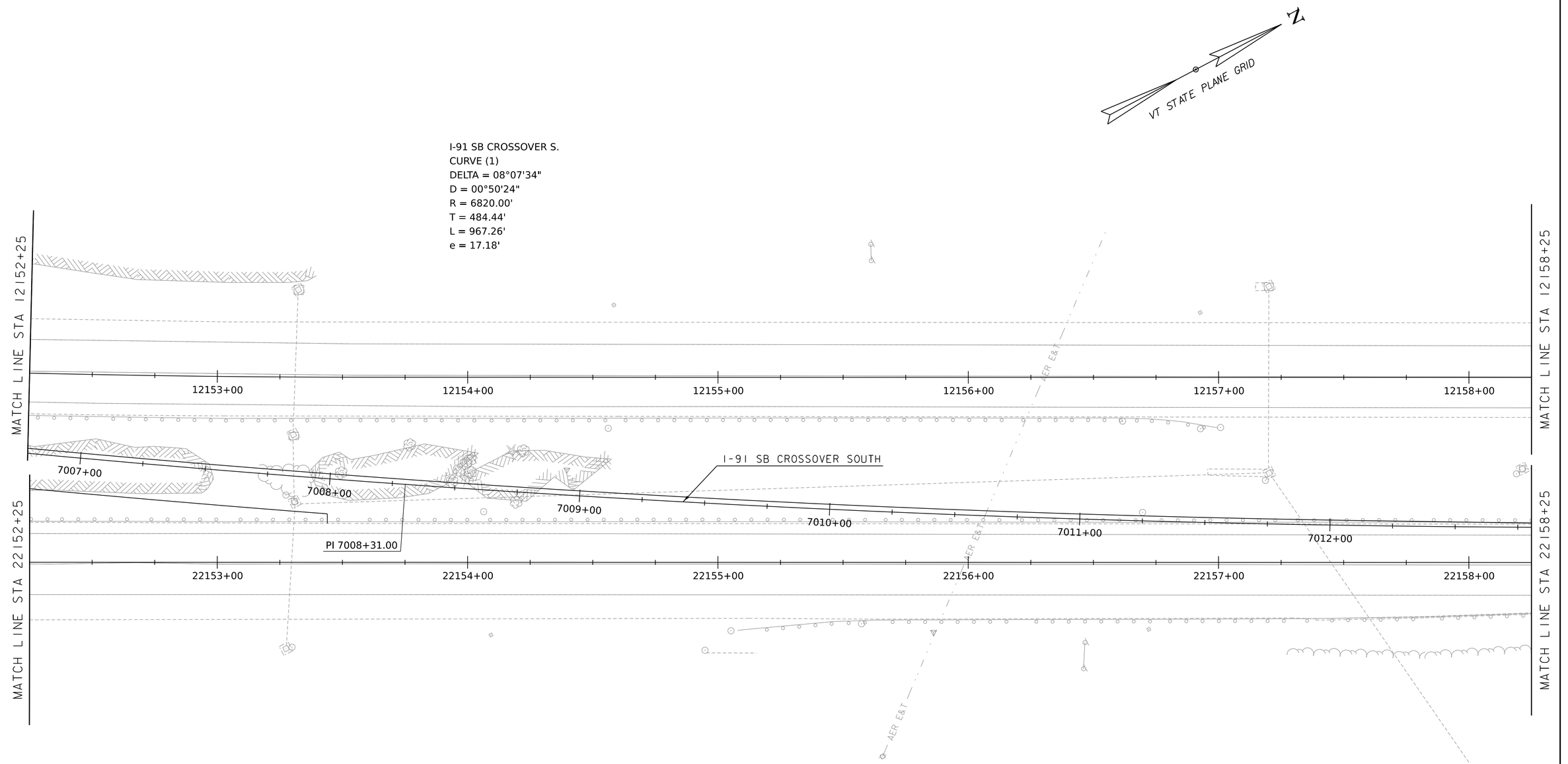


I-91 SOUTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 3	SHEET 145 OF 395

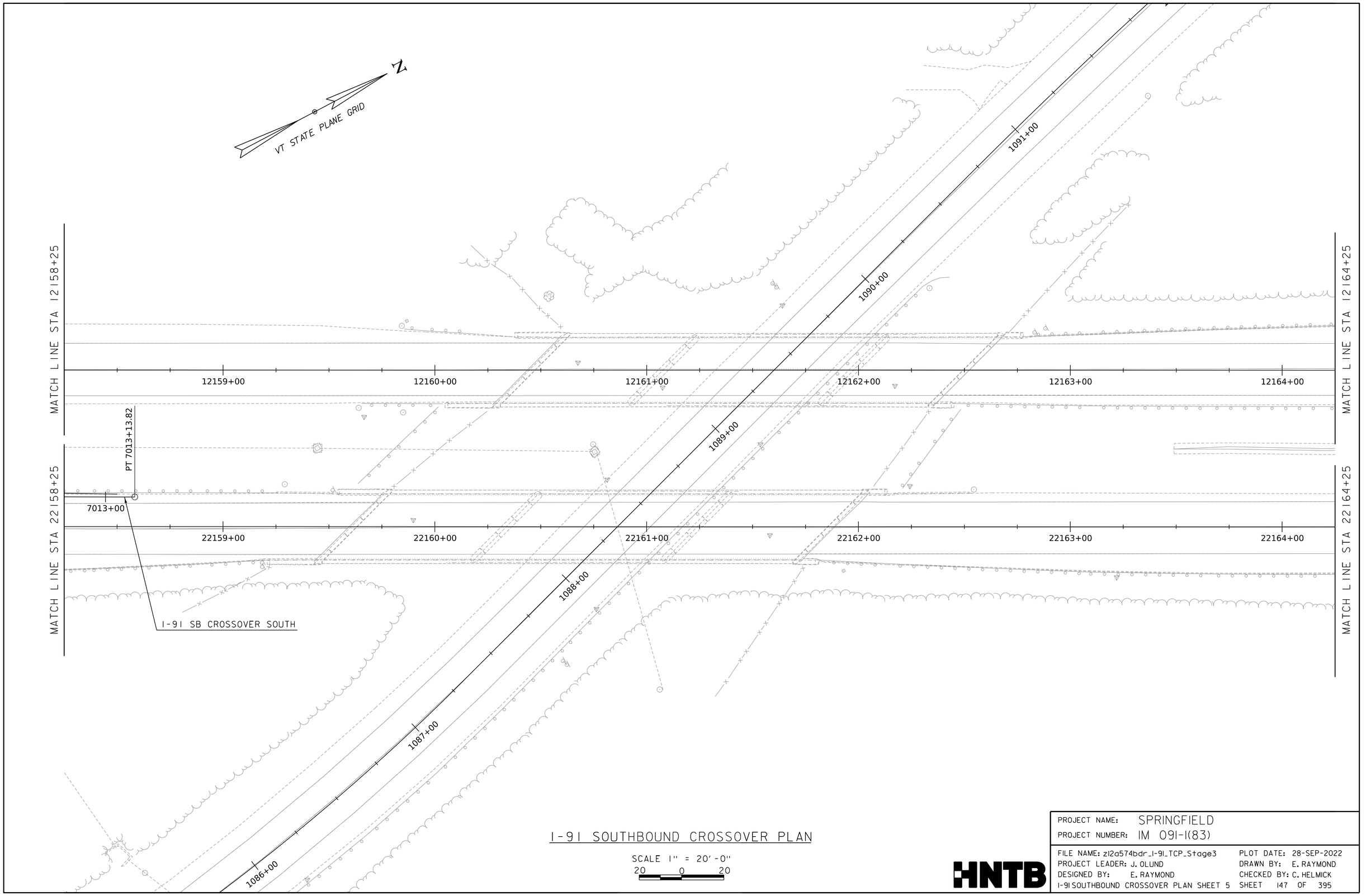


I-91 SOUTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 4	SHEET 146 OF 395

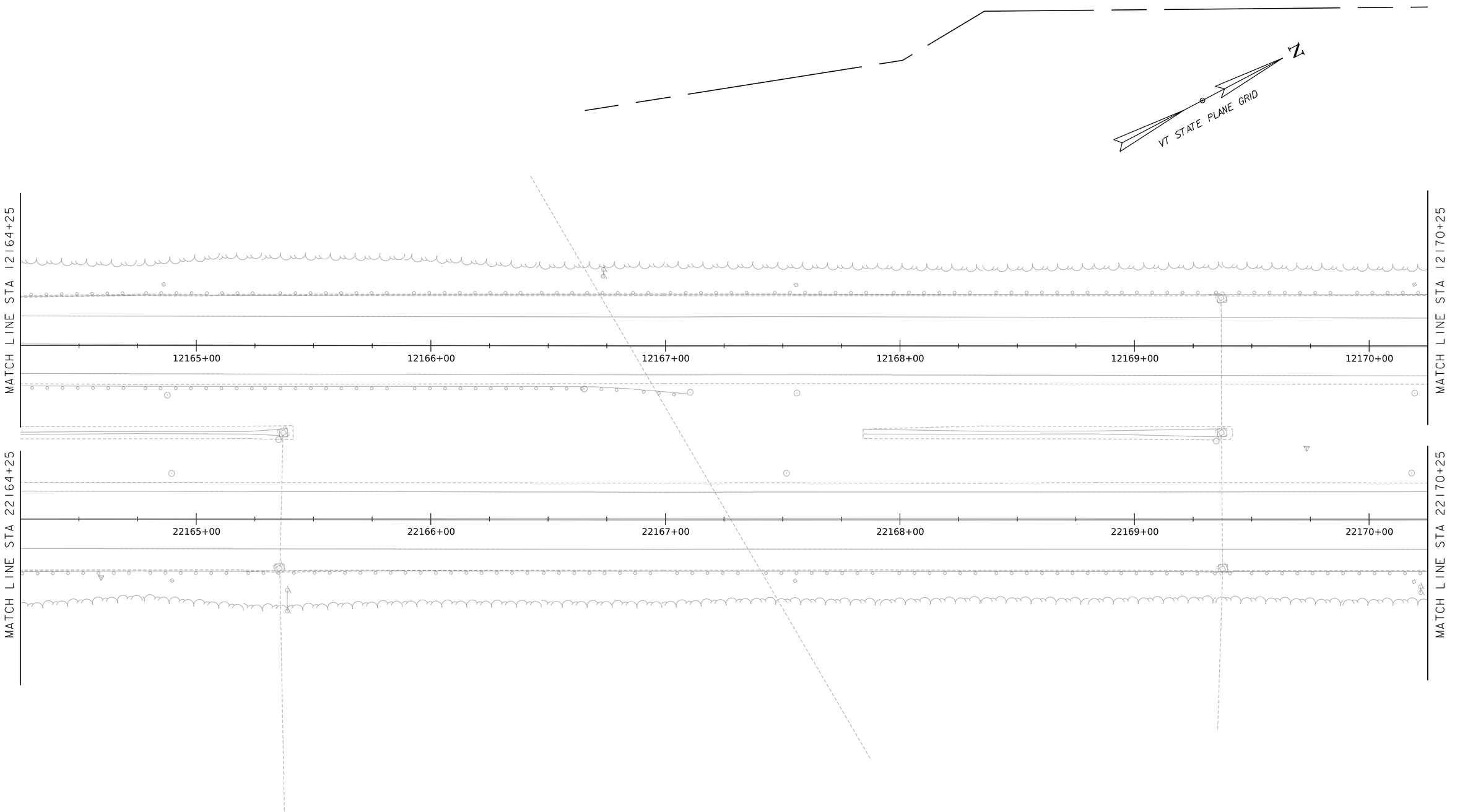


I-91 SOUTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 5	SHEET 147 OF 395

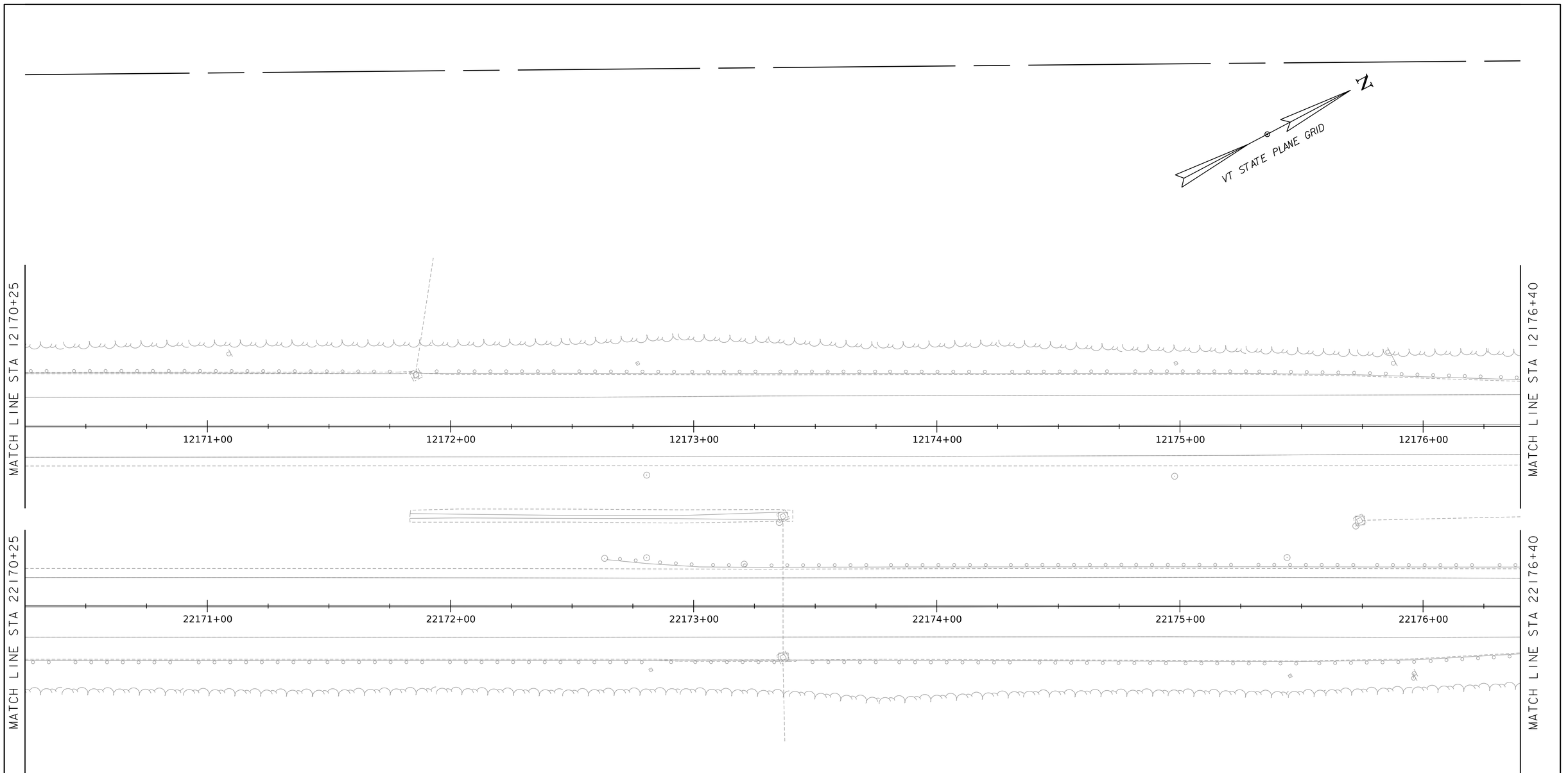


I-91 SOUTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 6	SHEET 148 OF 395



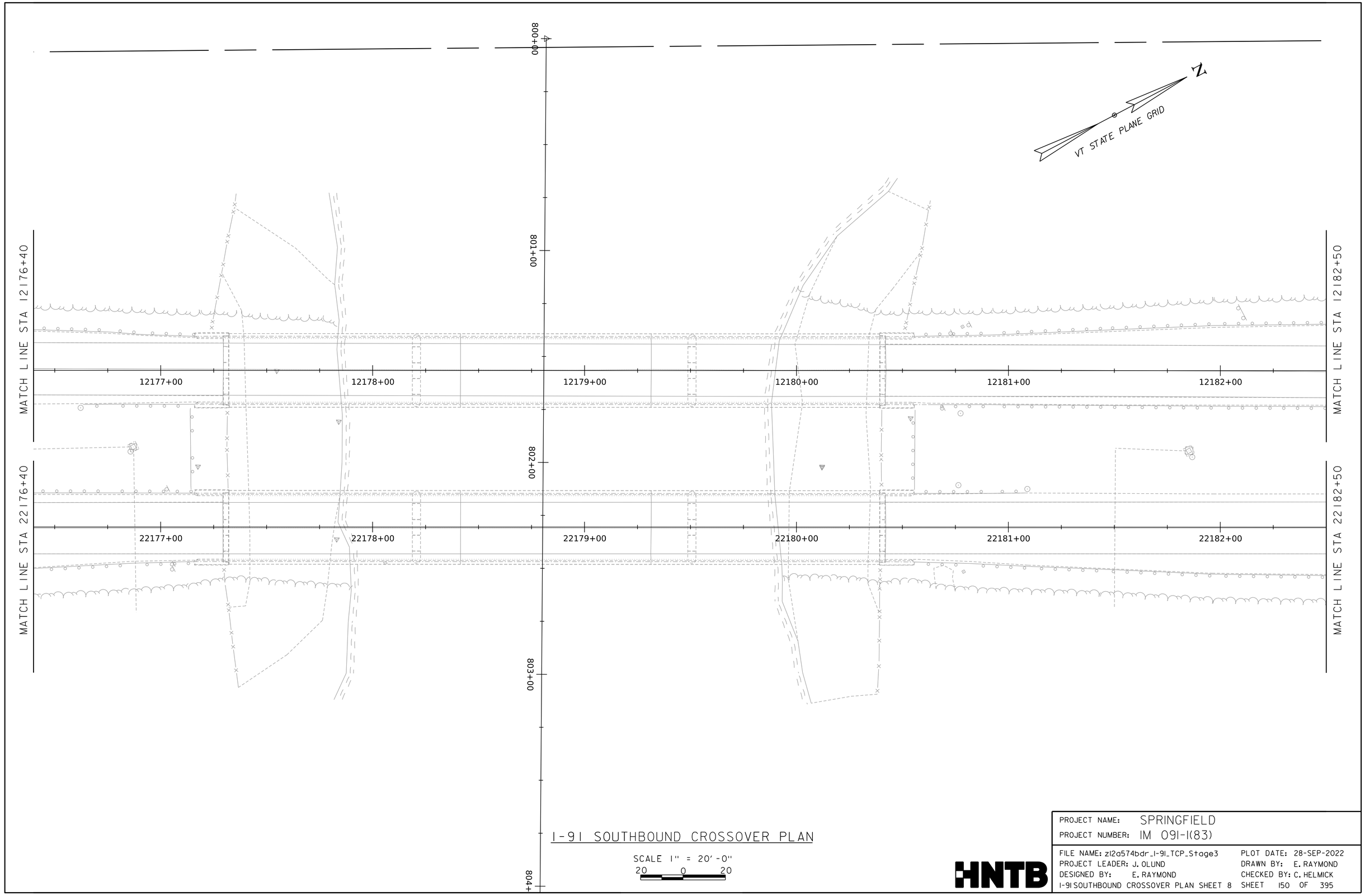
I-91 SOUTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 7	SHEET 149 OF 395



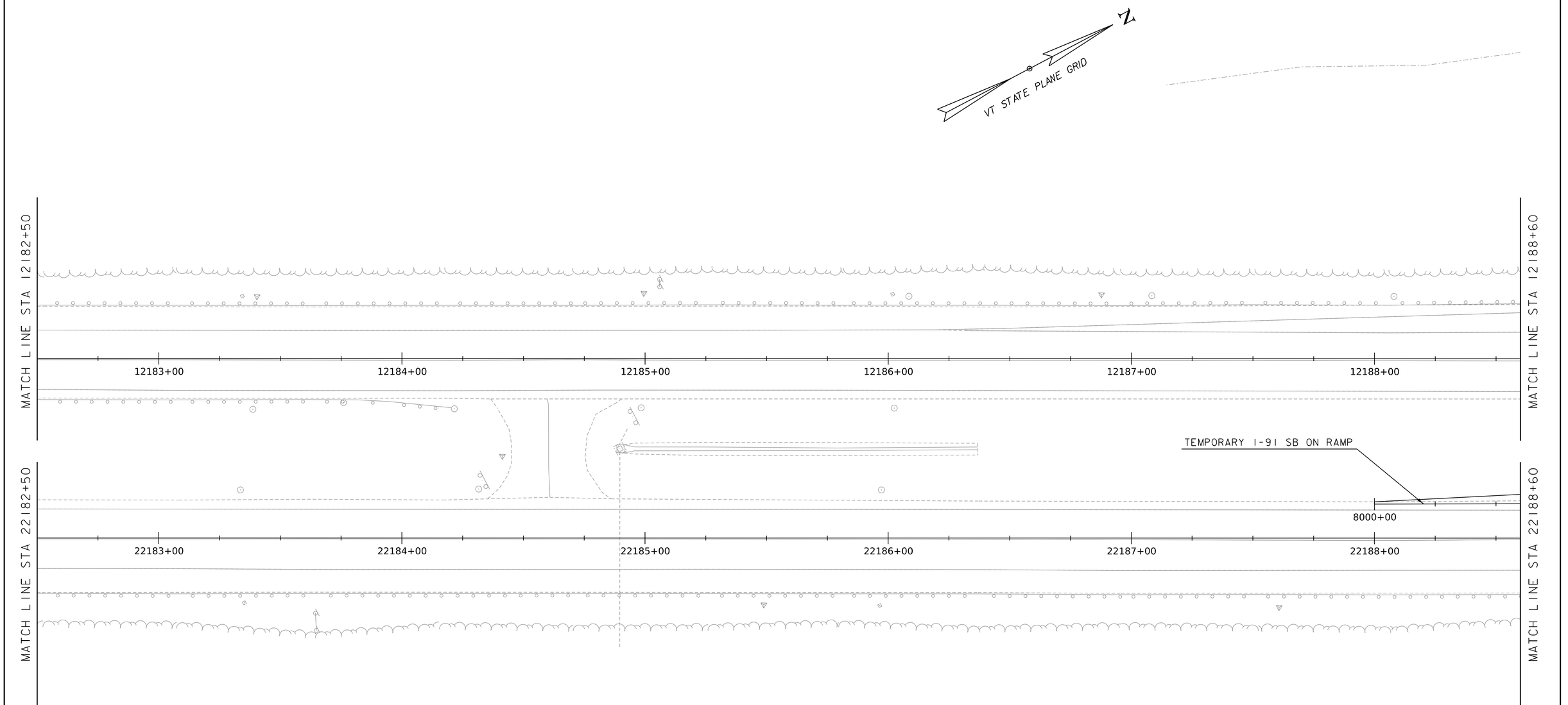
I-91 SOUTHBOUND CROSSOVER PLAN

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 8	SHEET 150 OF 395

HNTB



I-91 SOUTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 9	SHEET 151 OF 395

N

VT STATE PLANE GRID

MATCH LINE STA 12188+60

MATCH LINE STA 22188+60

STA 400+75

STA 12194+50

STA 22194+50

STA 204+25

12189+00 12190+00 12191+00 12192+00 12193+00 400+00 12194+00

22189+00 22190+00 22191+00 22192+00 22193+00 8005+00 22194+00

8001+00 8002+00 8003+00 PI 8003+65.03 8004+00

200+00 201+00 202+00 203+00 204+00

N27°39'56"E

PC 8002+12.35

PCC 8005+17.41

8006+00

TEMPORARY I-91 SB ON RAMP

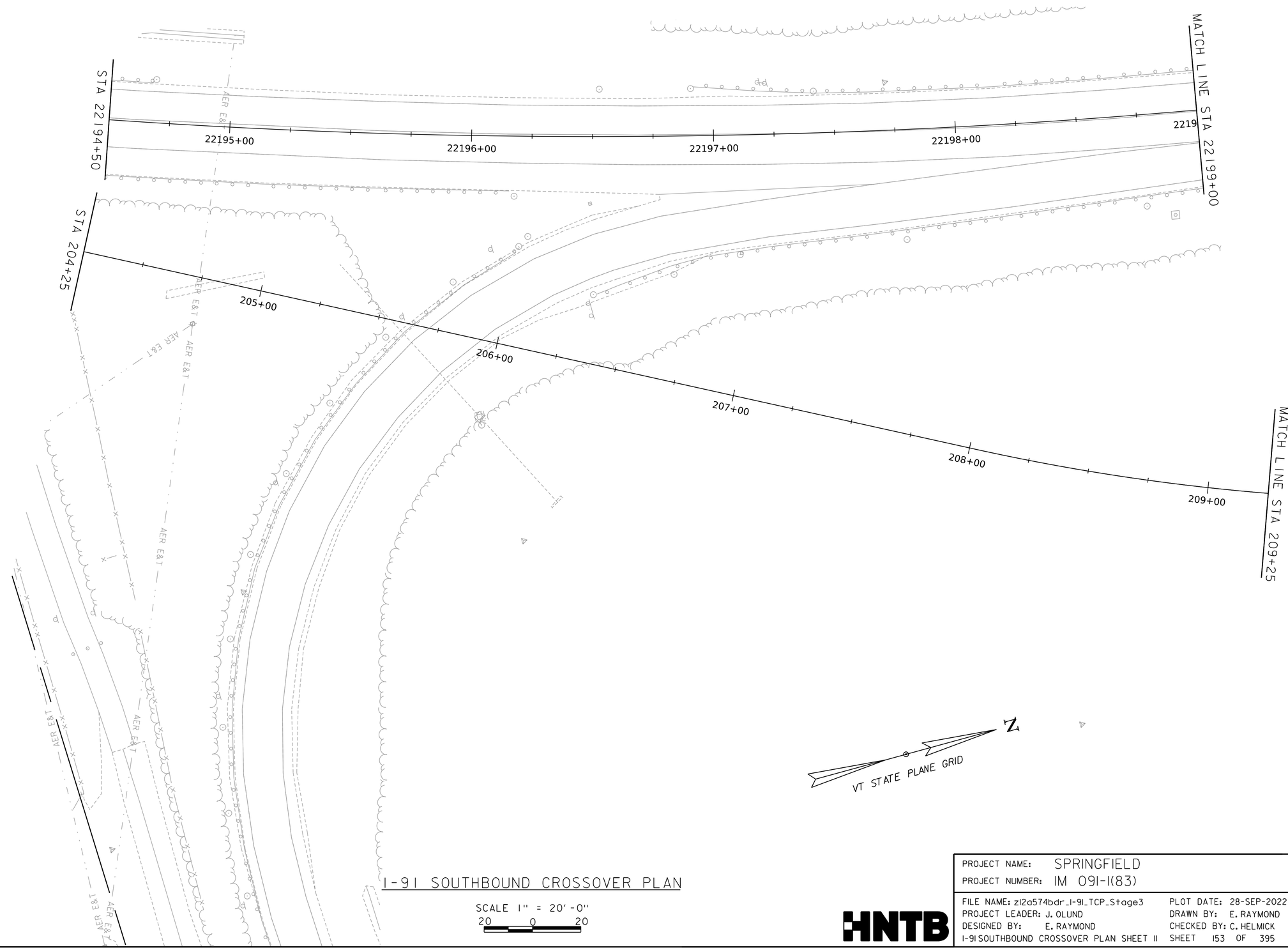
TEMPORARY I-91 SB ON RAMP
CURVE (2)
DELTA = 06°07'52"
D = 02°00'35"
R = 2850.79'
T = 152.68'
L = 305.06'
e = 4.09'

I-91 SOUTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 10	SHEET 152 OF 395



I-91 SOUTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET II	SHEET 153 OF 395

MATCH LINE STA 22199+00

22200+00

22201+00

22202+00

PC 9000+00.00

9000+00

9001+00

9002+00

22203+00

22204+00

MATCH LINE STA 22204+75

I-91 SB CROSSOVER NORTH

134+00

135+00

136+00

137+00

MATCH LINE STA 209+25

210+00

211+00

300+00

301+00

302+00

303+00

MATCH LINE STA 303+25

N

VT STATE PLANE GRID

I-91 SOUTHBOUND CROSSOVER PLAN

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 12	SHEET 154 OF 395

MATCH LINE STA 9006+50

MATCH LINE STA 303+25

MATCH LINE STA 309+25

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

I-91 SB CROSSOVER NORTH

PI 9003+54.25

I-91 SB CROSSOVER N.
CURVE (1)
DELTA = 36°57'33"
D = 05°24'19"
R = 1060.00'
T = 354.25'
L = 683.76'
e = 57.63'

9003+00
9004+00
9005+00
9006+00
22205+00
22206+00
22207+00
22208+00
22209+00
22210+00
304+00
305+00
306+00
307+00
308+00
309+00
909+00
910+00
911+00
912+00
913+00
914+00

VT STATE PLANE GRID

N

I-91 SOUTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 13	SHEET 155 OF 395

MATCH LINE STA 22210+50

MATCH LINE STA 22216+50

MATCH LINE STA 309+25

917+00

916+00

915+00

22211+00

22212+00

22213+00

22214+00

22215+00

22216+00

310+00

311+00

VT STATE PLANE GRID

N

I-91 SOUTHBOUND CROSSOVER PLAN

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 14	SHEET 156 OF 395

MATCH LINE STA 22216+50

22217+00

22218+00

22219+00

22220+00

22221+00

22222+00

VT STATE PLANE GRID

N

I-91 SOUTHBOUND CROSSOVER PLAN

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME: SPRINGFIELD

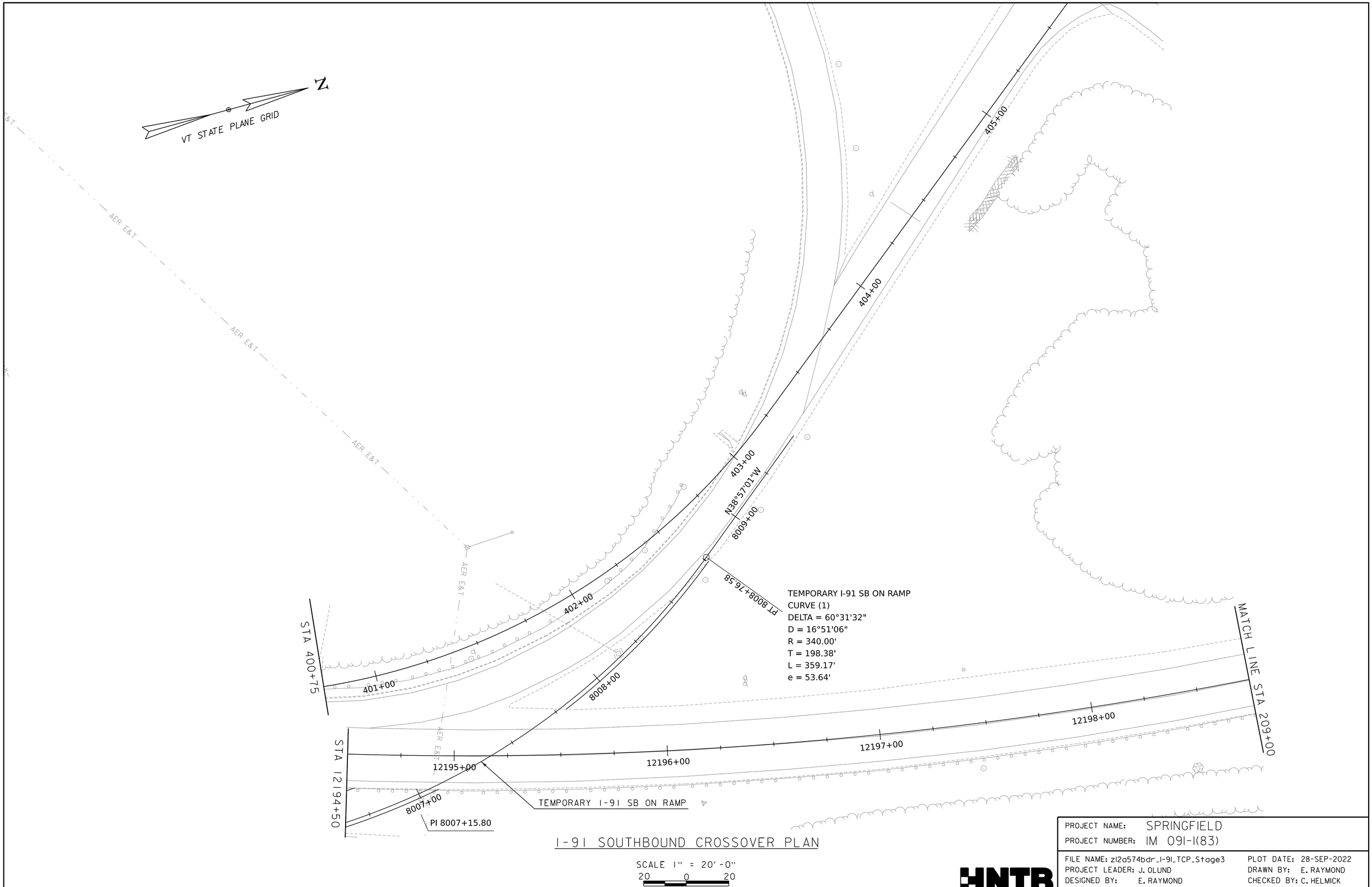
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_I-91_TCP_Stage3 PLOT DATE: 28-SEP-2022

PROJECT LEADER: J. OLUND DRAWN BY: E. RAYMOND

DESIGNED BY: E. RAYMOND CHECKED BY: C. HELMICK

I-91 SOUTHBOUND CROSSOVER PLAN SHEET 15 SHEET 157 OF 395



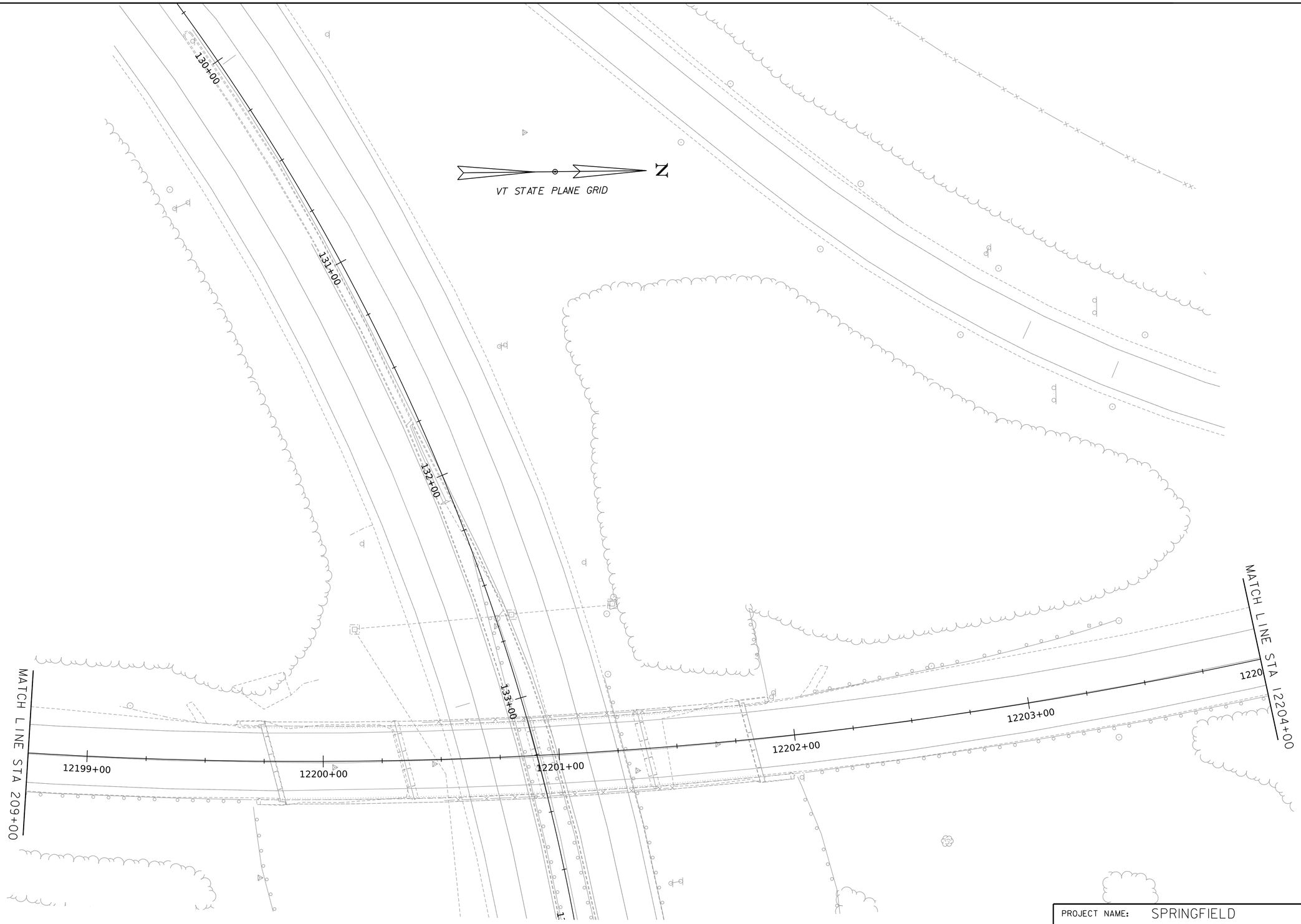
I-91 SOUTHBOUND CROSSOVER PLAN

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 16	SHEET 158 OF 395

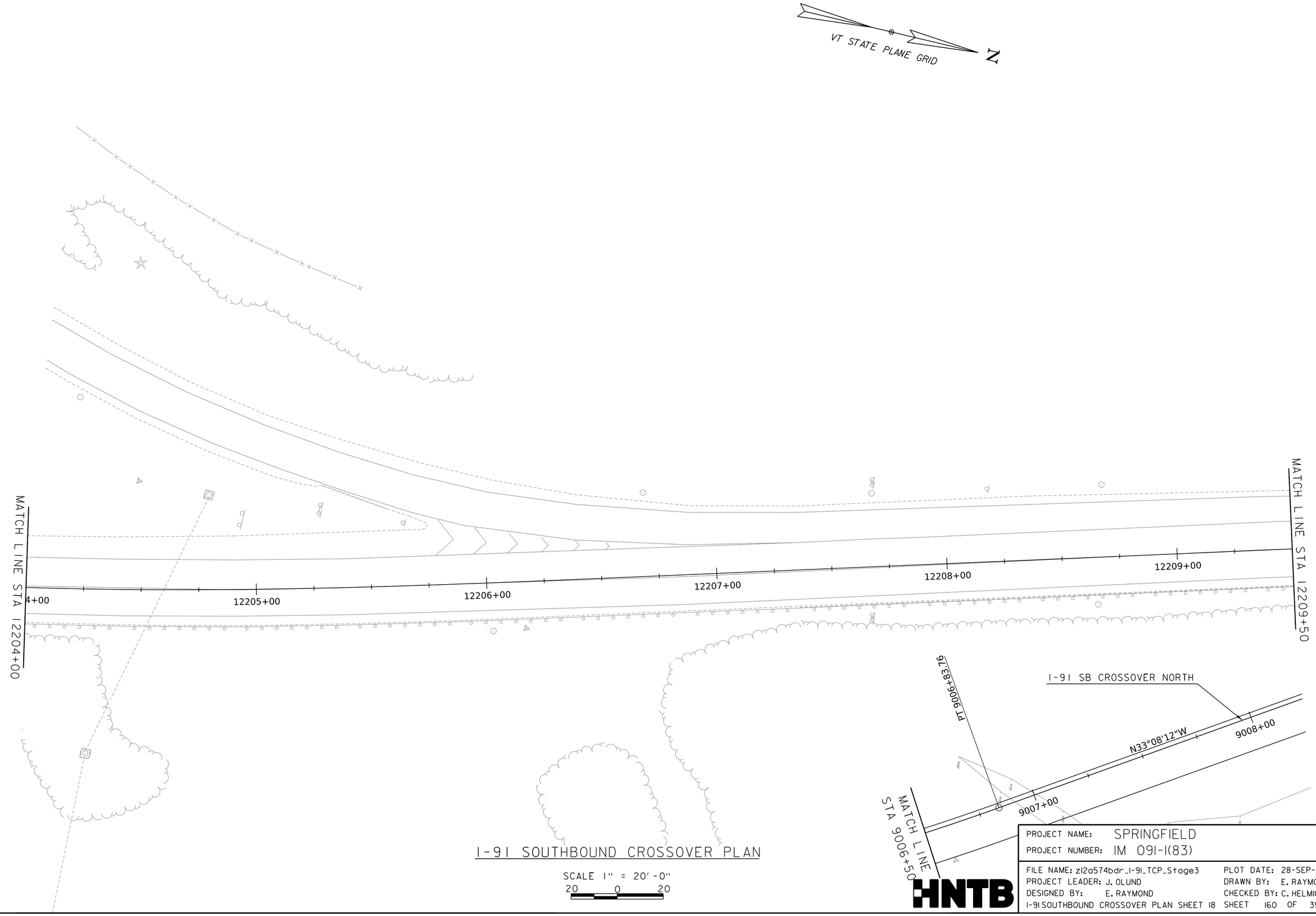


I-91 SOUTHBOUND CROSSOVER PLAN

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

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 17	SHEET 159 OF 395

HNTB



I-91 SOUTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 18	SHEET 160 OF 395

VT STATE PLANE GRID

N

I-91 SB CROSSOVER N.
CURVE (2)
DELTA = 14°38'54"
D = 05°24'19"
R = 1060.00'
T = 136.24'
L = 271.00'
e = 8.72'

I-91 SB CROSSOVER N.
CURVE (3)
DELTA = 02°57'16"
D = 00°50'24"
R = 6820.00'
T = 175.87'
L = 351.66'
e = 2.27'

MATCH LINE STA 12209+50

12210+00
12211+00
12212+00
12213+00
12214+00
12215+00
9009+00
9010+00
9011+00
9012+00
9013+00
9014+00

PI 9009+70.01
PI 9014+01.92
N18°46'26"W

I-91 SB CROSSOVER NORTH

PC 9008+33.76
PT 9011+04.77
PC 9012+26.05

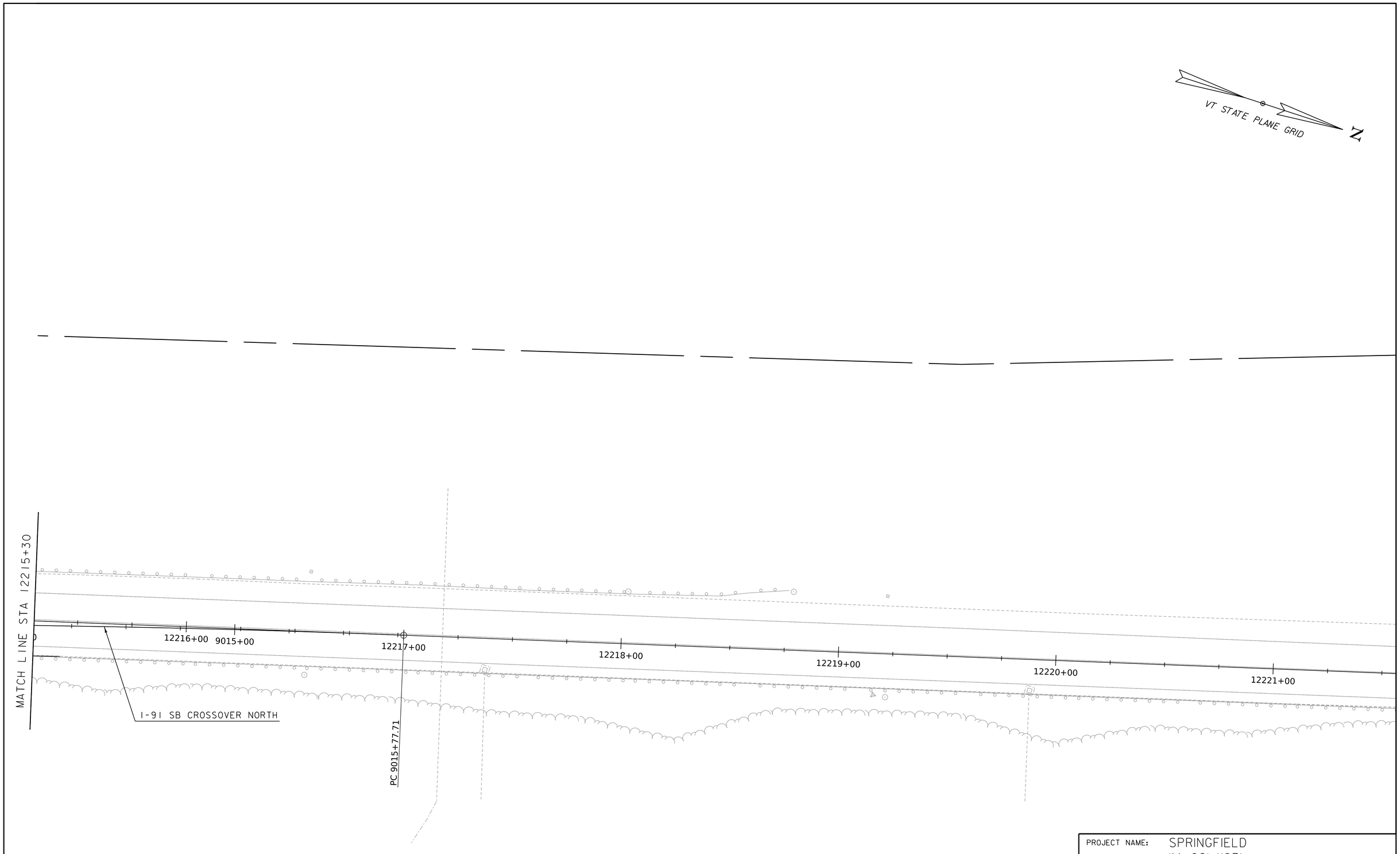
MATCH LINE STA 12215+30

I-91 SOUTHBOUND CROSSOVER PLAN

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

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 19	SHEET 161 OF 395

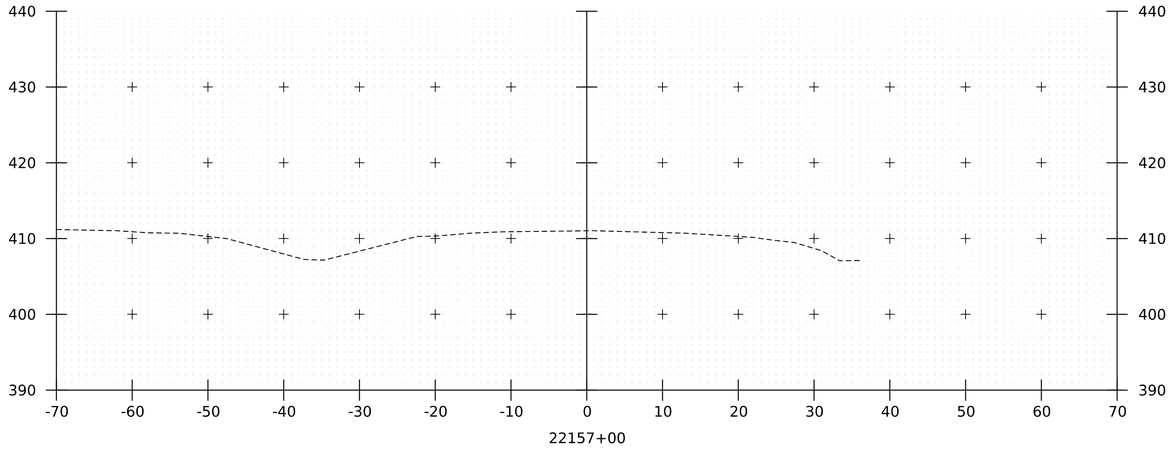


I-91 SOUTHBOUND CROSSOVER PLAN

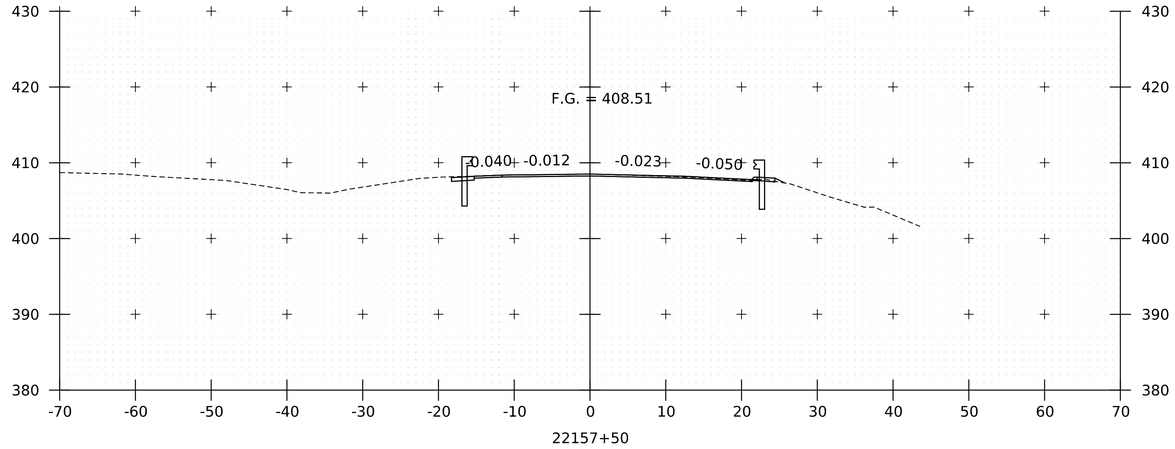
SCALE 1" = 20'-0"
20 0 20

HNTB

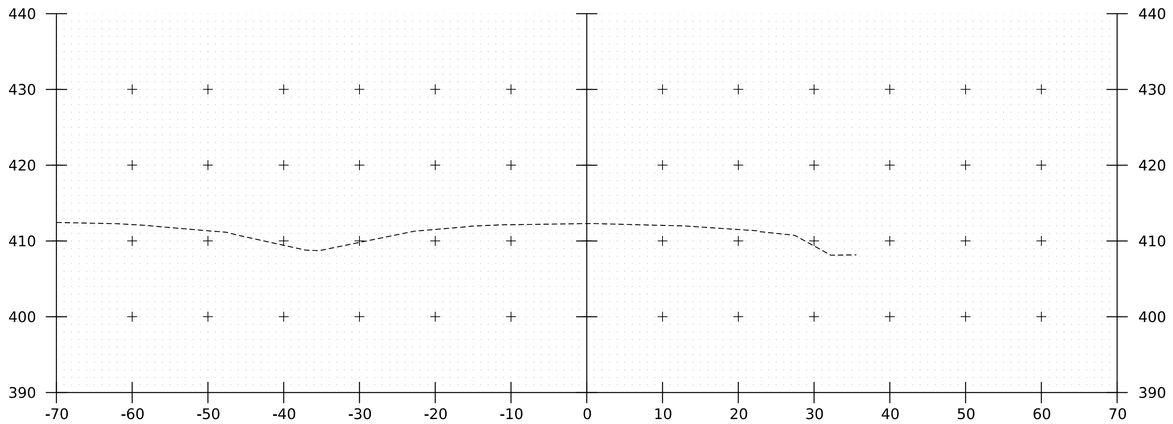
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574bdr_I-91_TCP_Stage3	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
I-91 SOUTHBOUND CROSSOVER PLAN SHEET 20	SHEET 162 OF 395



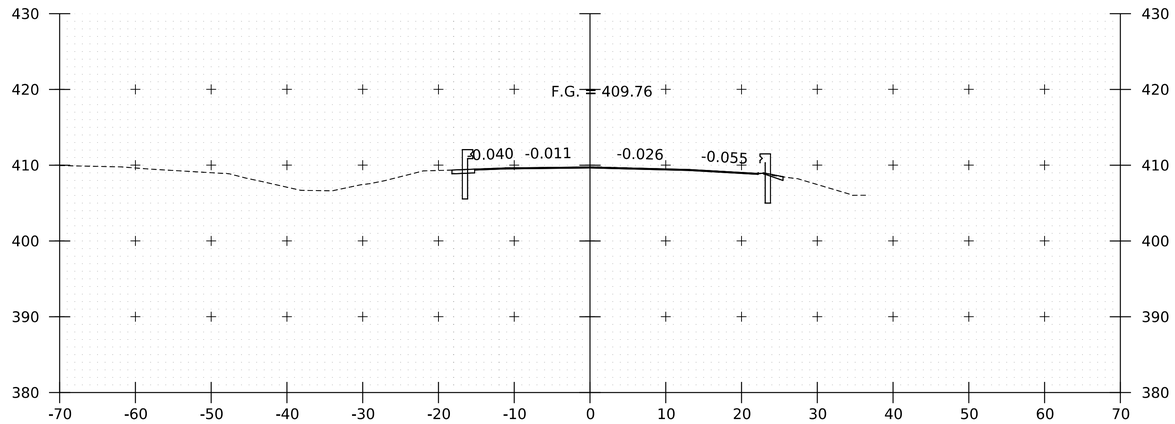
22157+00



22157+50



22156+75

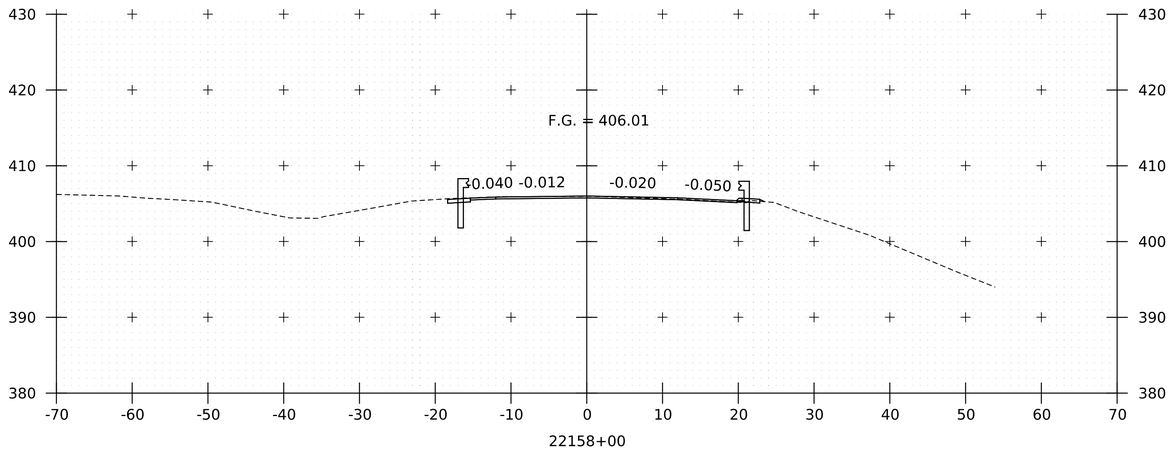


22157+25
BEGIN NORTHBOUND APPROACH
MATCH EXISTING

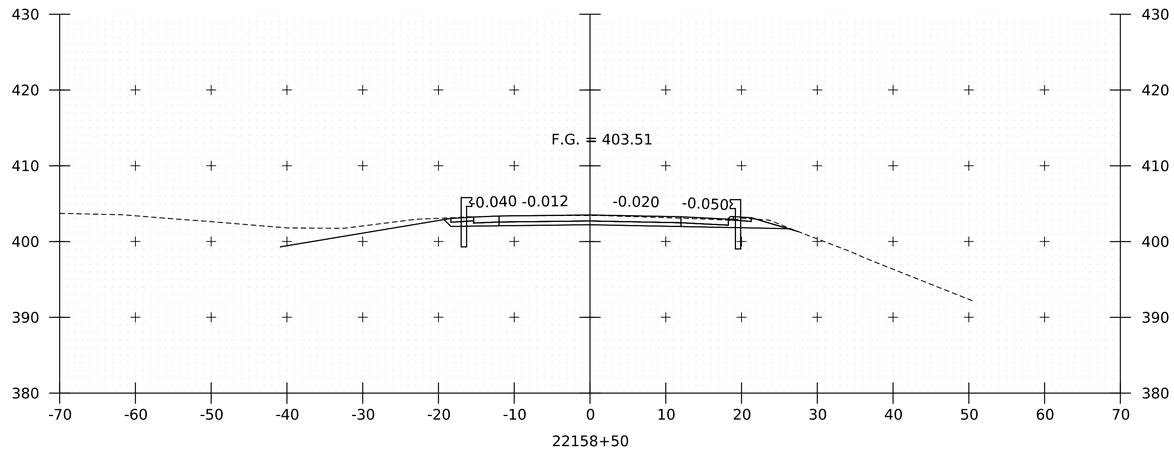
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 1

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 163 OF 395

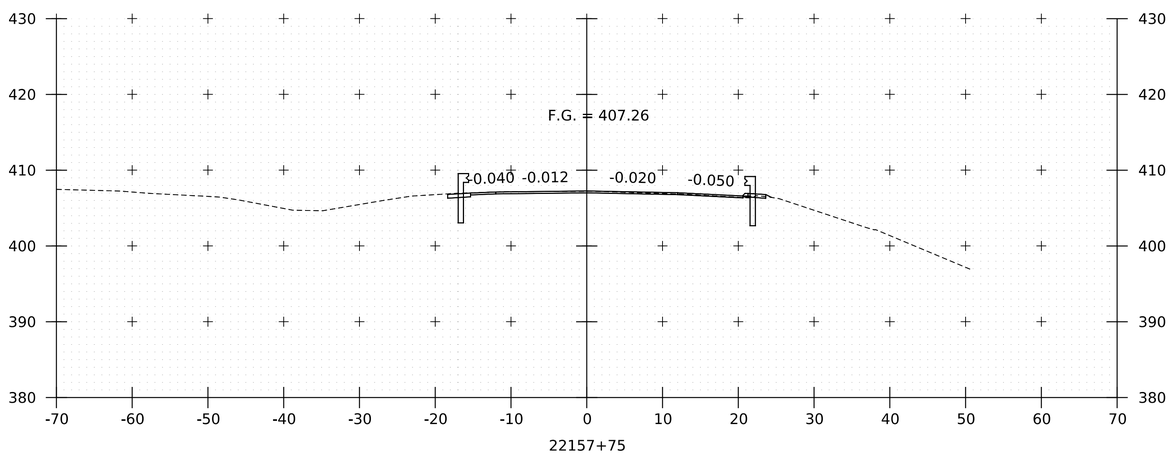


22158+00

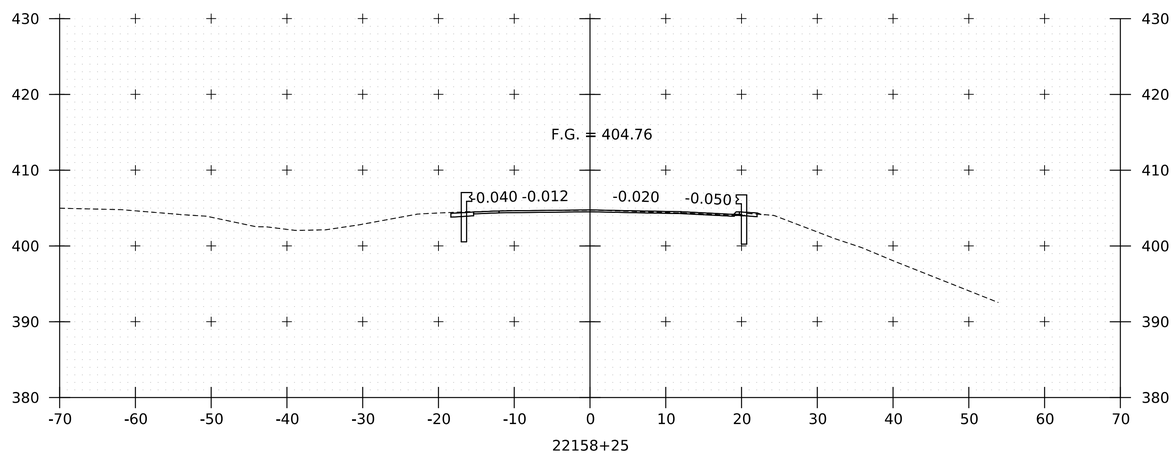


22158+50

BEGIN NORTHBOUND PROJECT



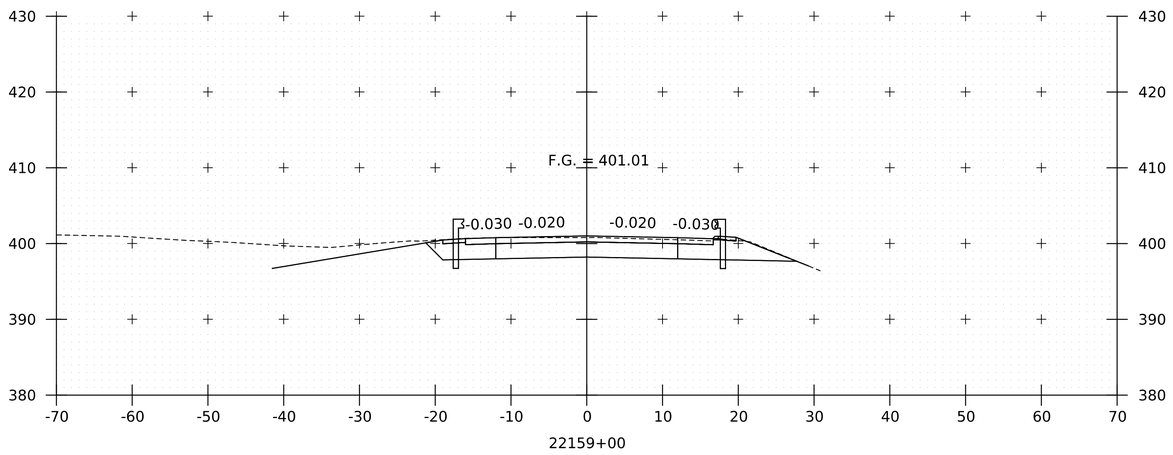
22157+75

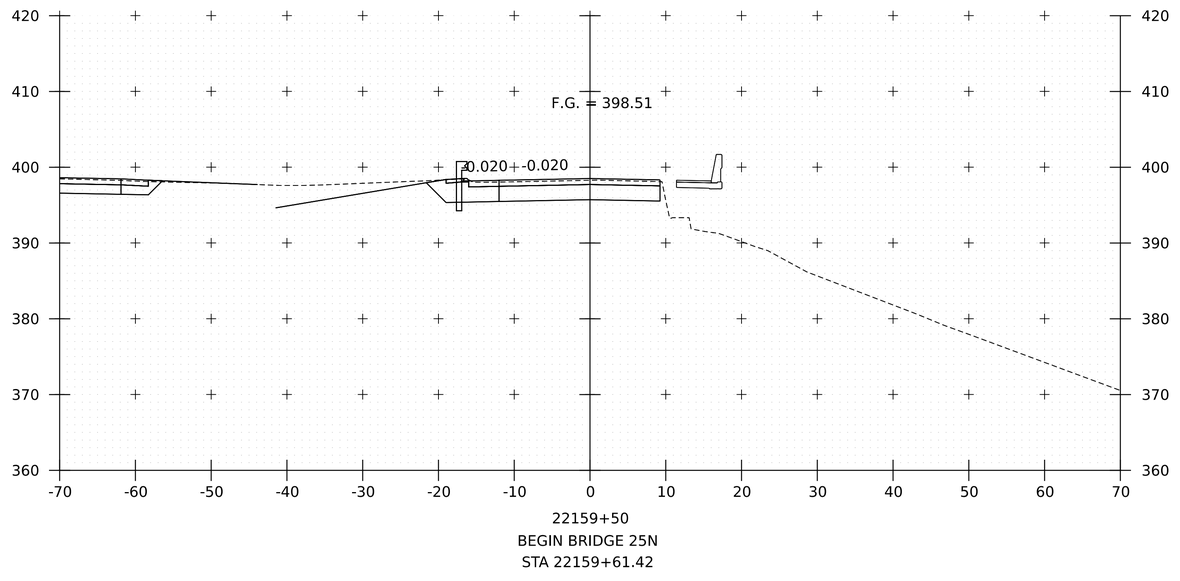


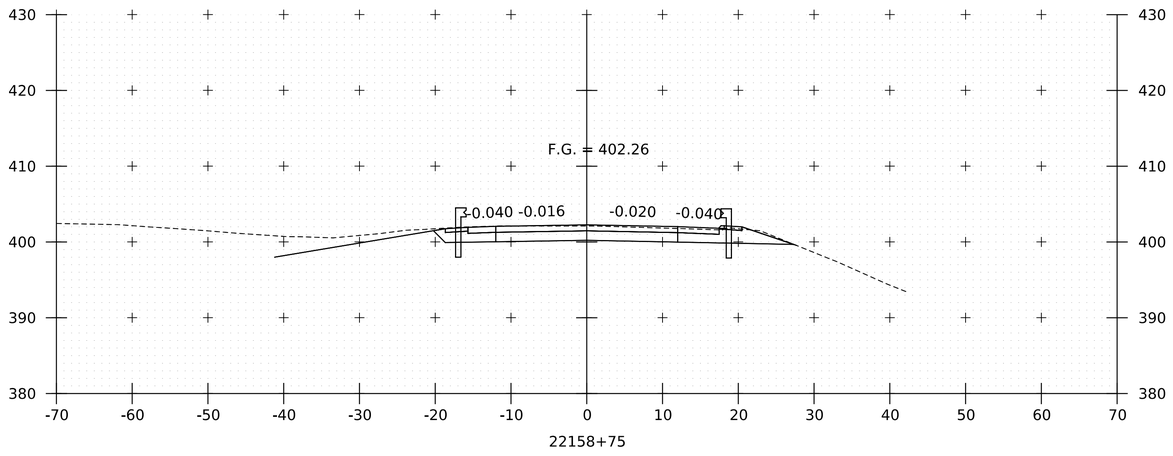
22158+25

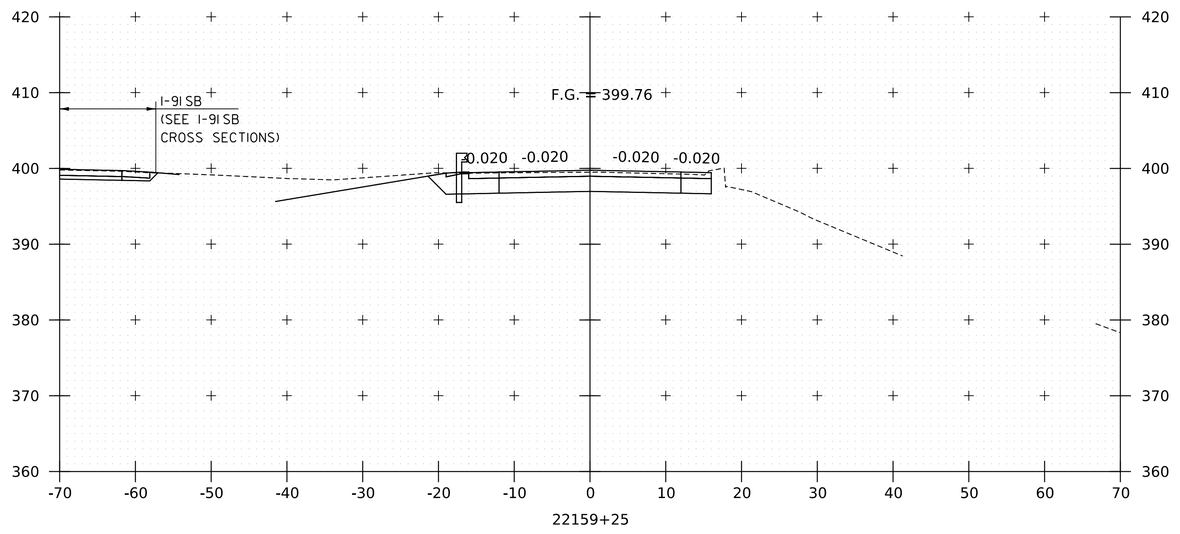
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 2	SHEET 164 OF 395

HNTB





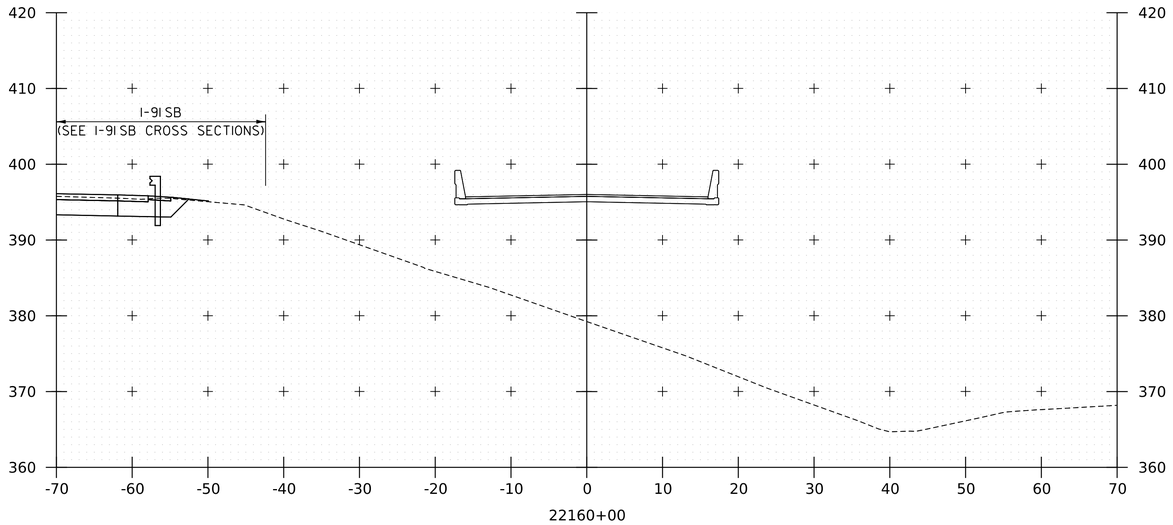




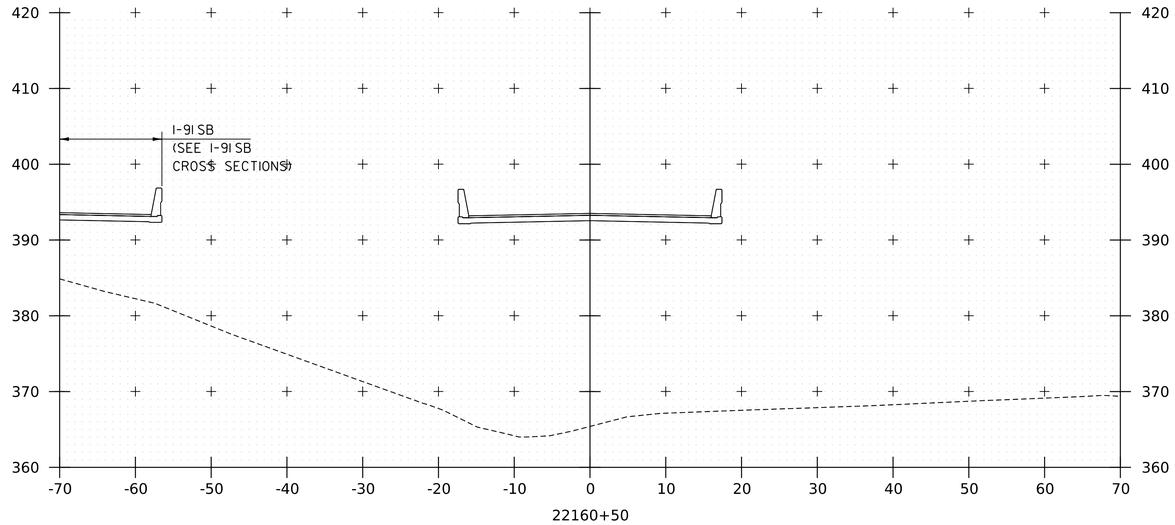
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 3	SHEET 165 OF 395

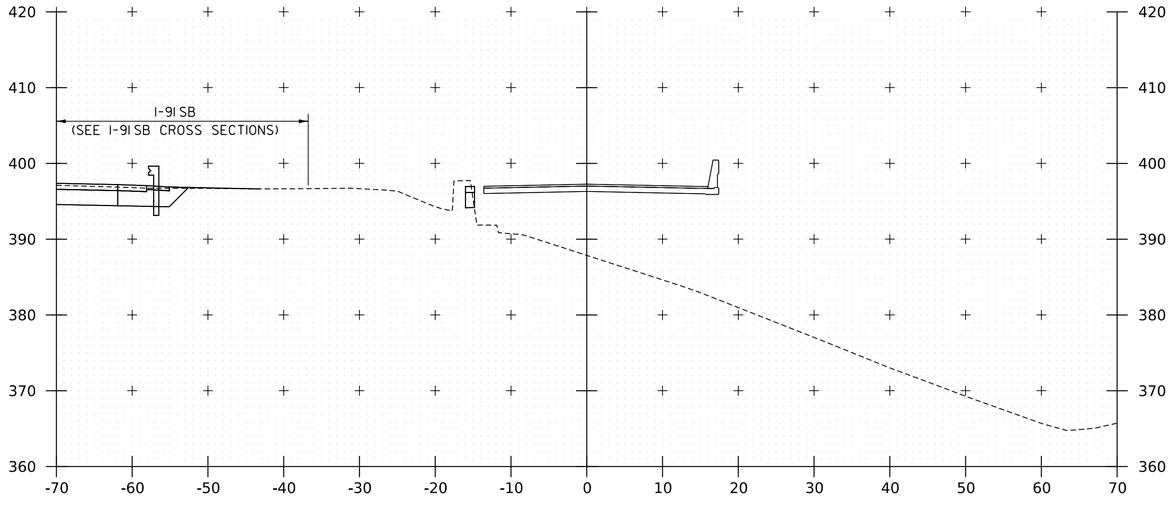
HNTB



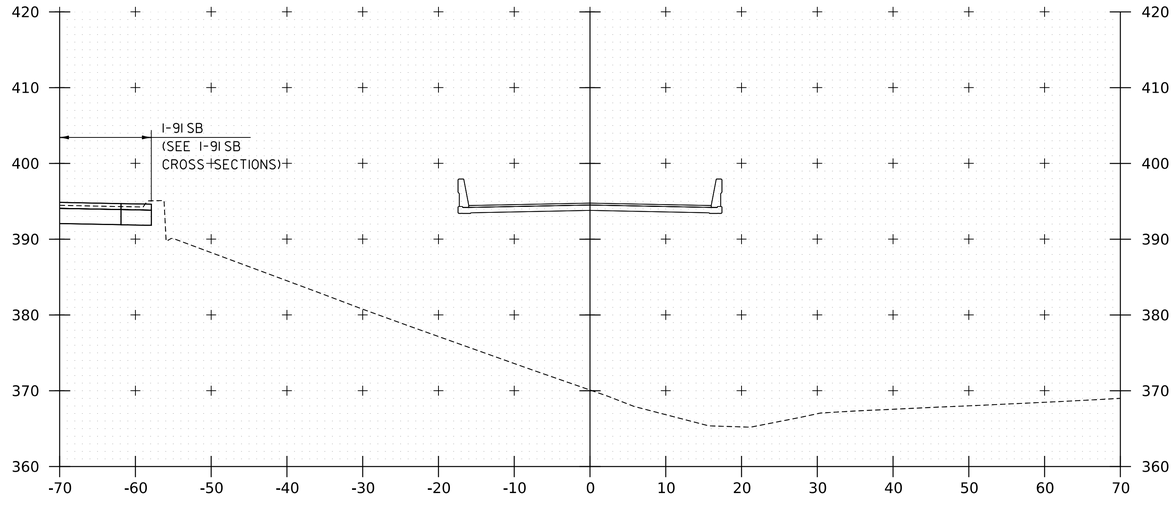
22160+00



22160+50



22159+75

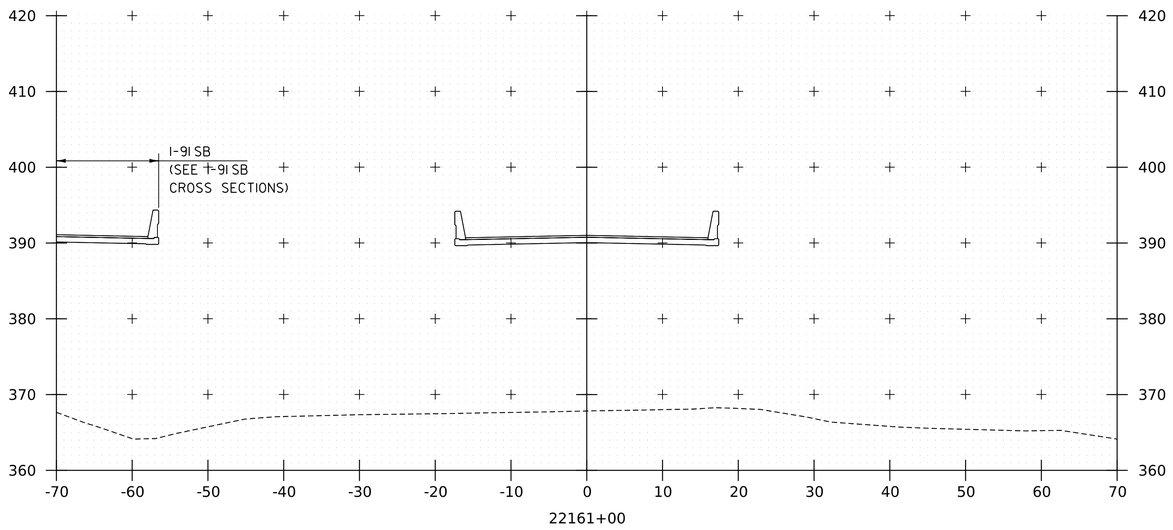


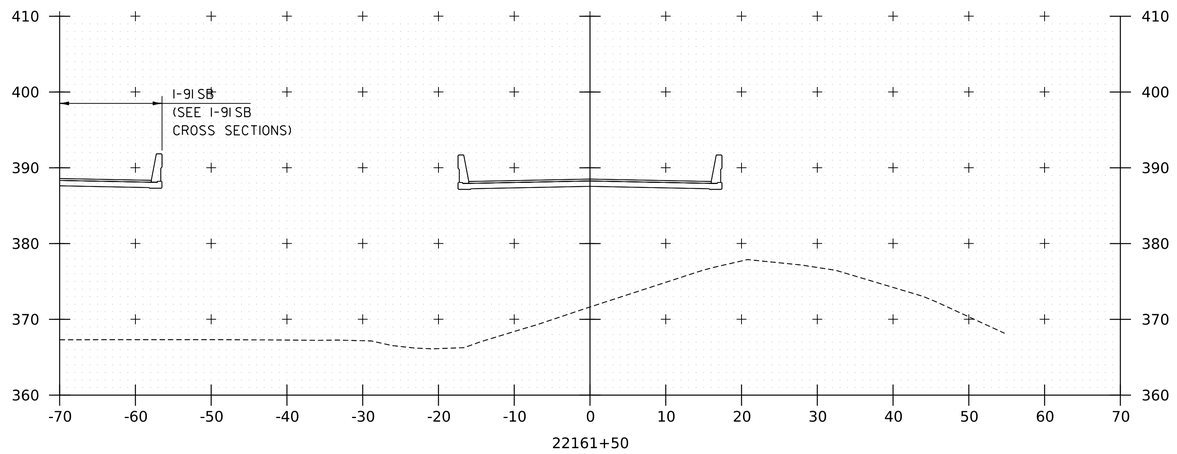
22160+25

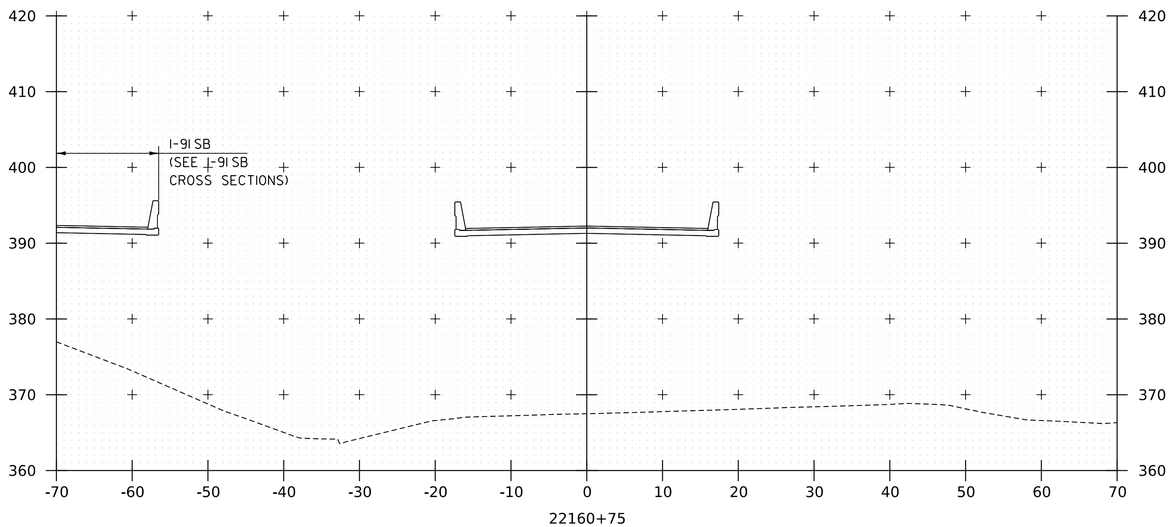
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

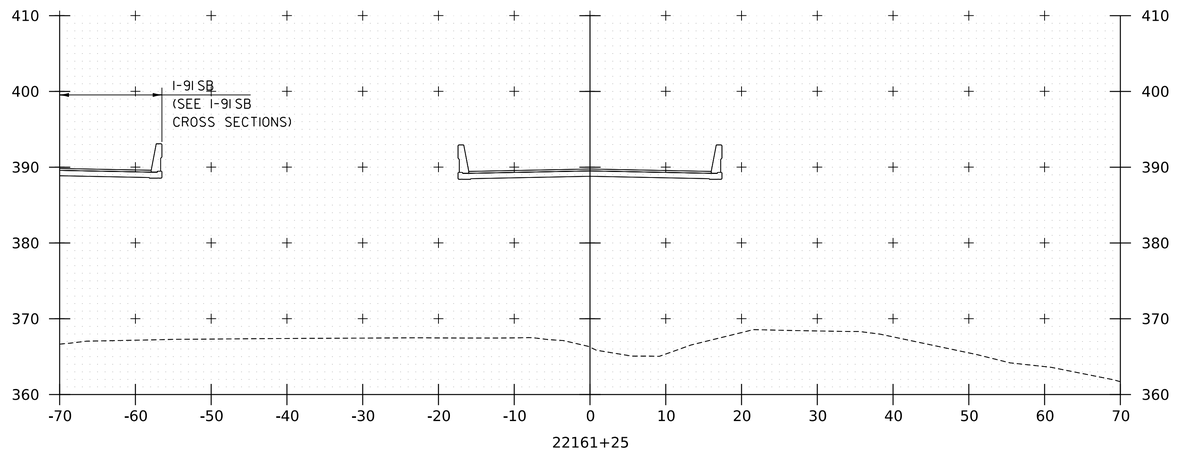
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 4	SHEET 166 OF 395

HNTB



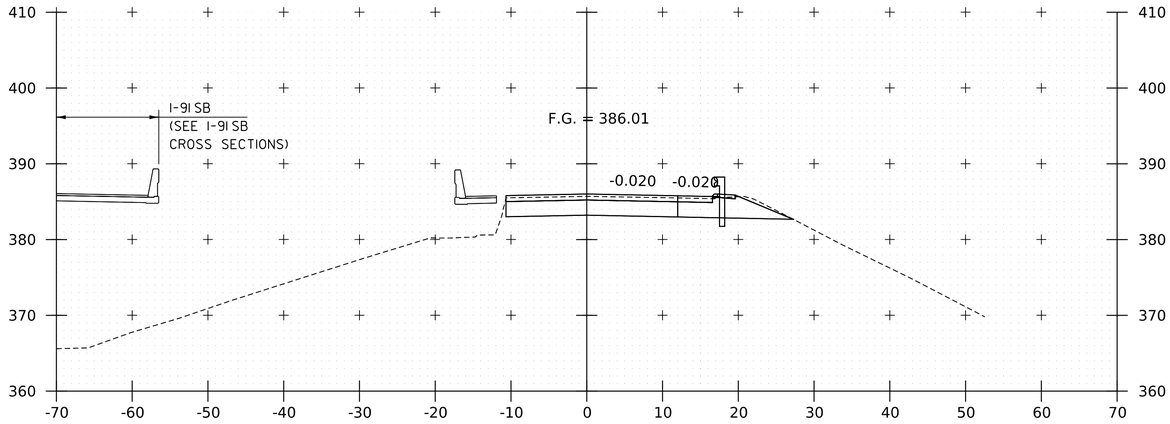




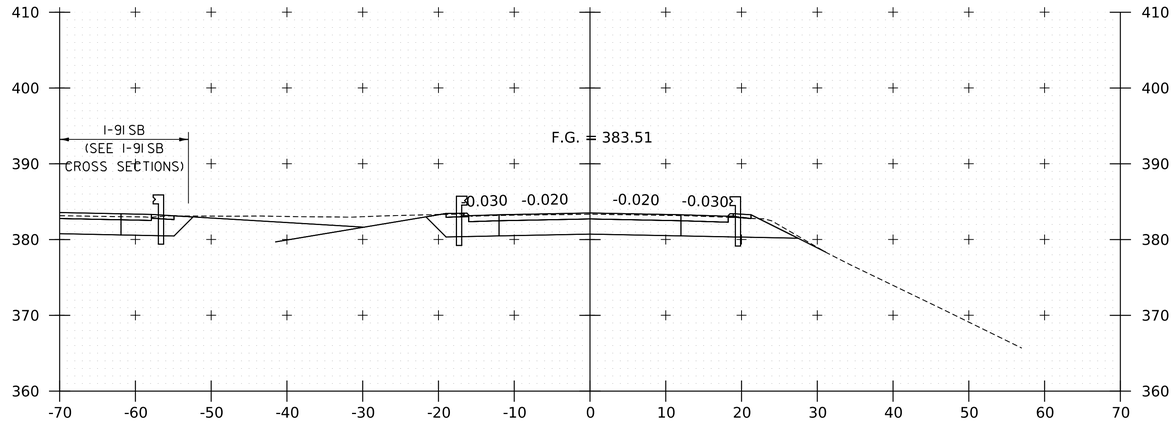


HNTB

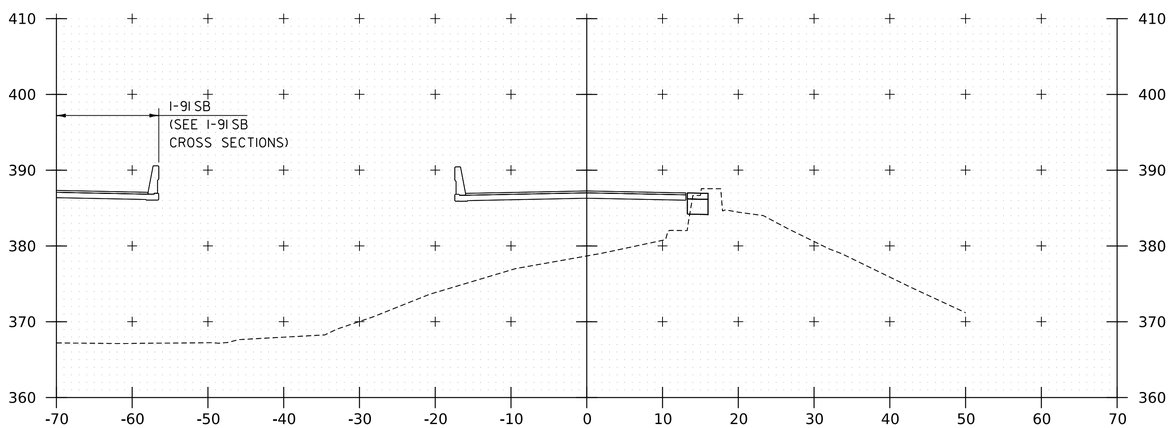
PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 5	SHEET 167 OF 395



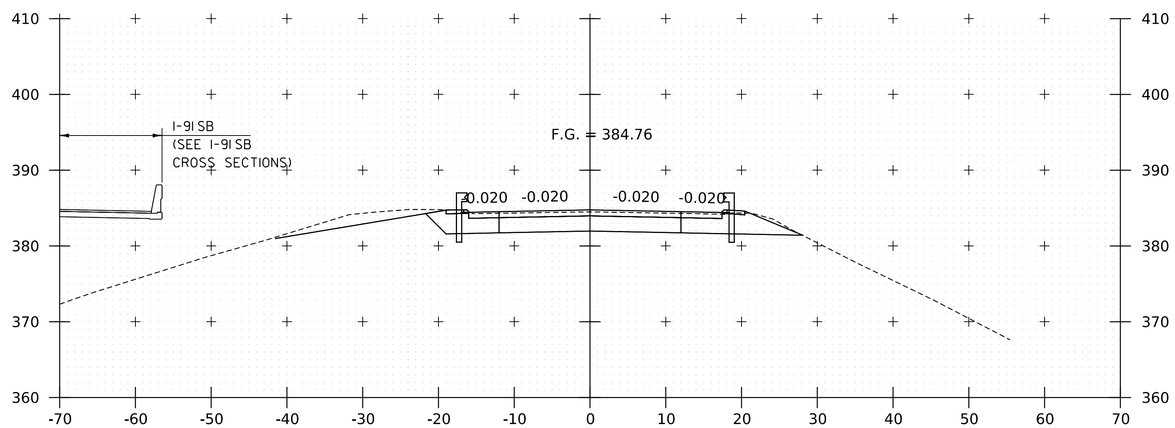
22162+00



22162+50
STOP NORTHBOUND PROJECT



22161+75
END BRIDGE 25N
STA. 22161+88.08



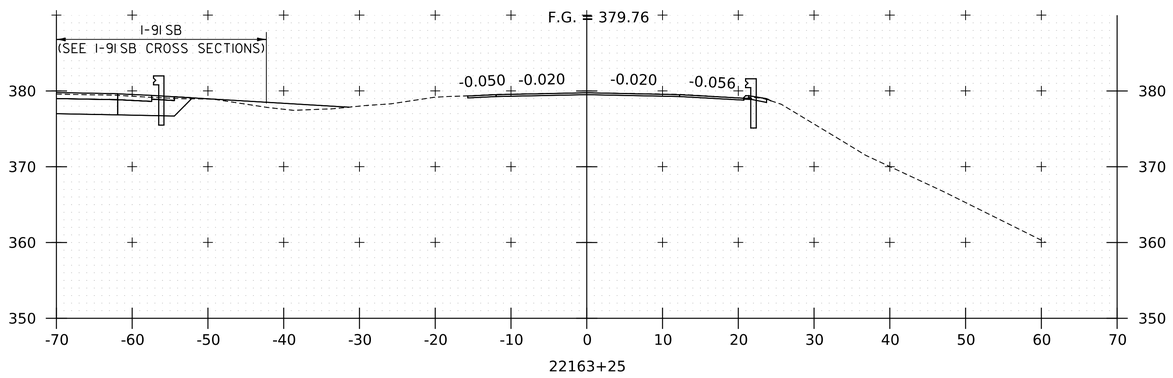
22162+25

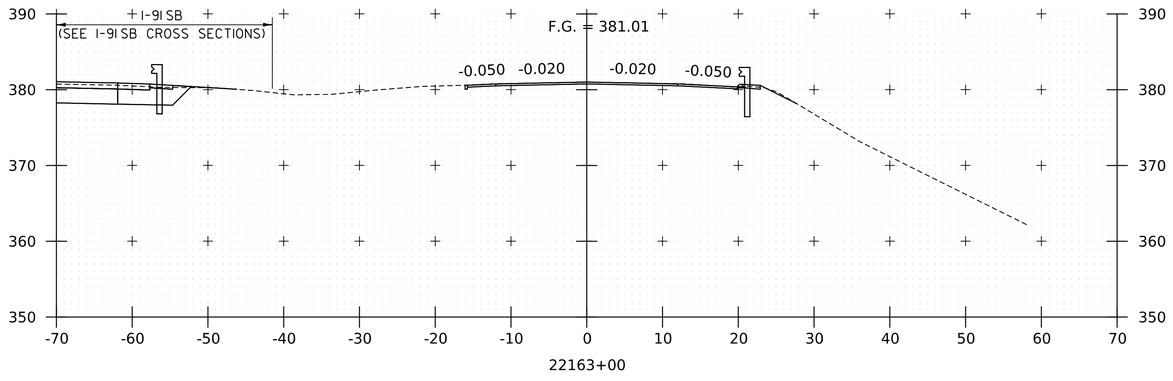
HNTB

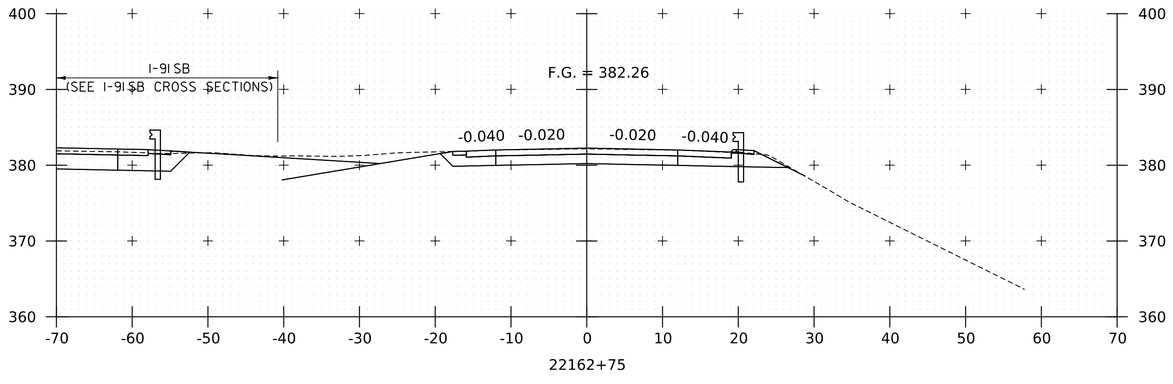
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

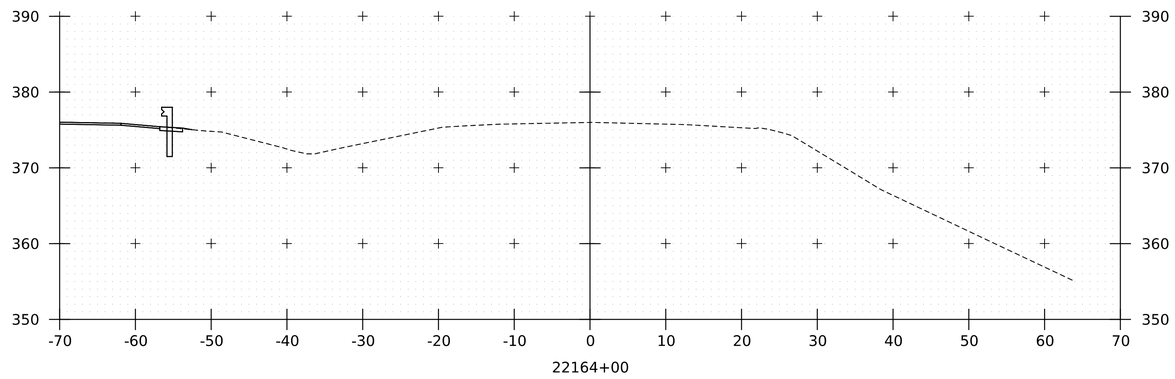
FILE NAME: z12a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 6

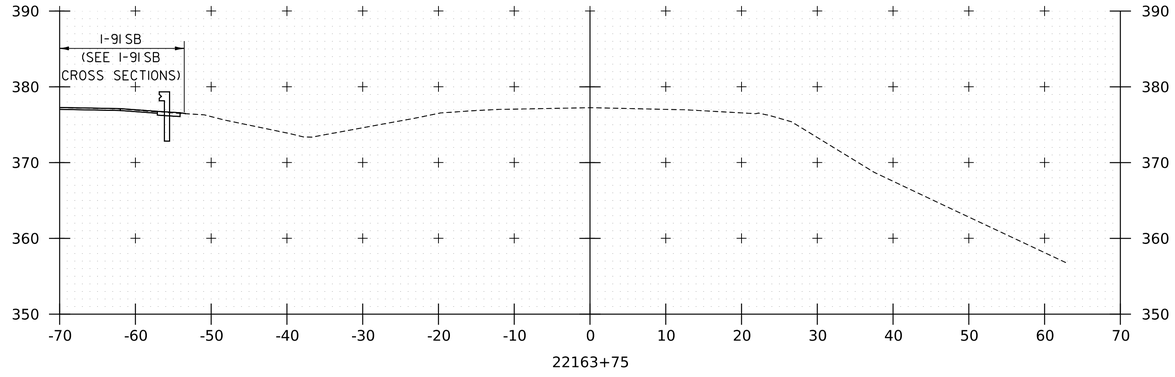
PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 168 OF 395

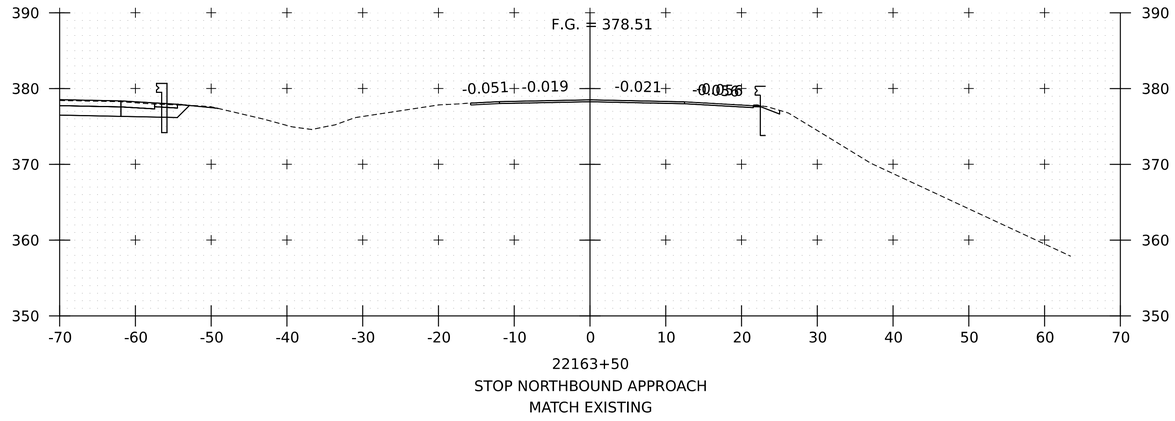








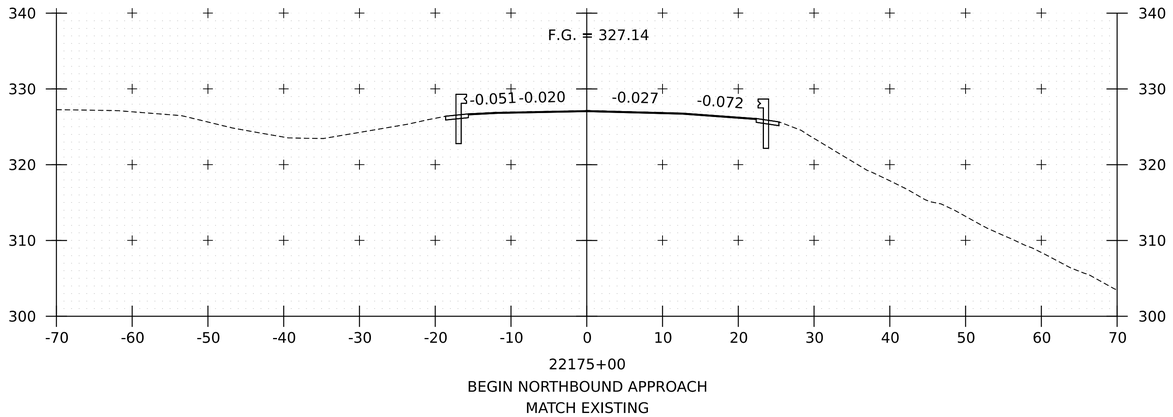




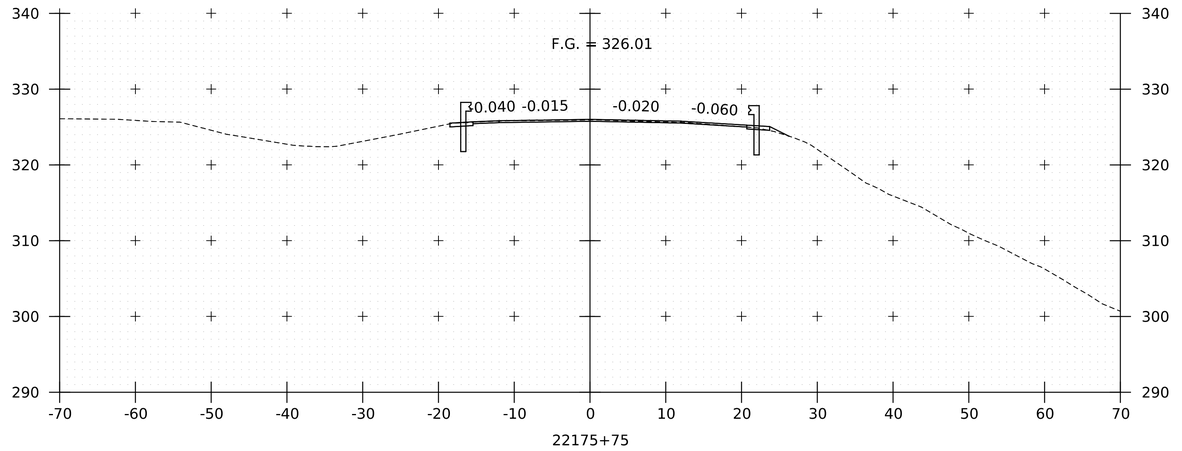
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 7	SHEET 169 OF 395

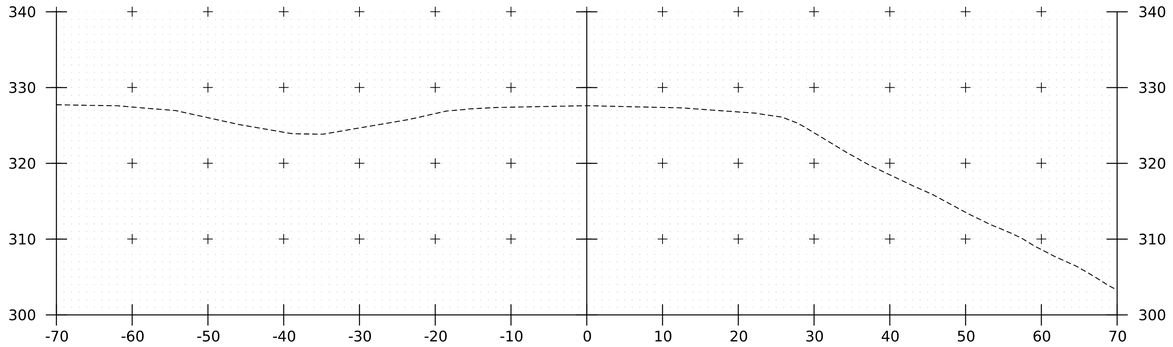
HNTB



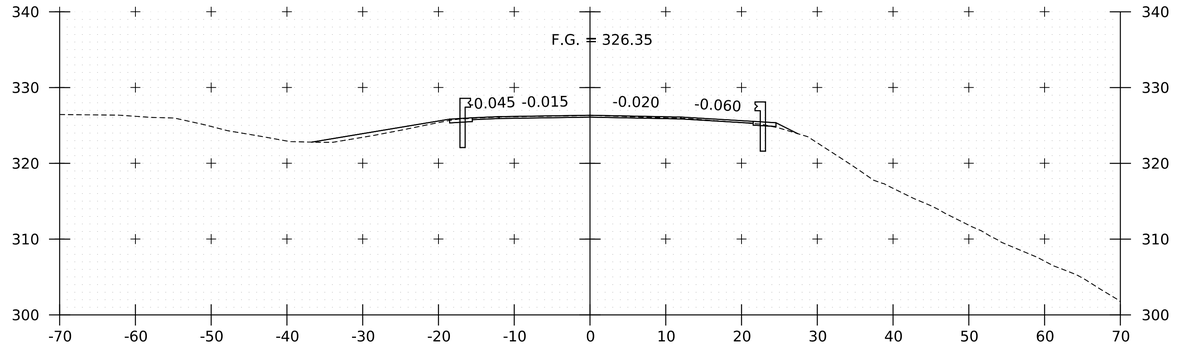
22175+00
BEGIN NORTHBOUND APPROACH
MATCH EXISTING



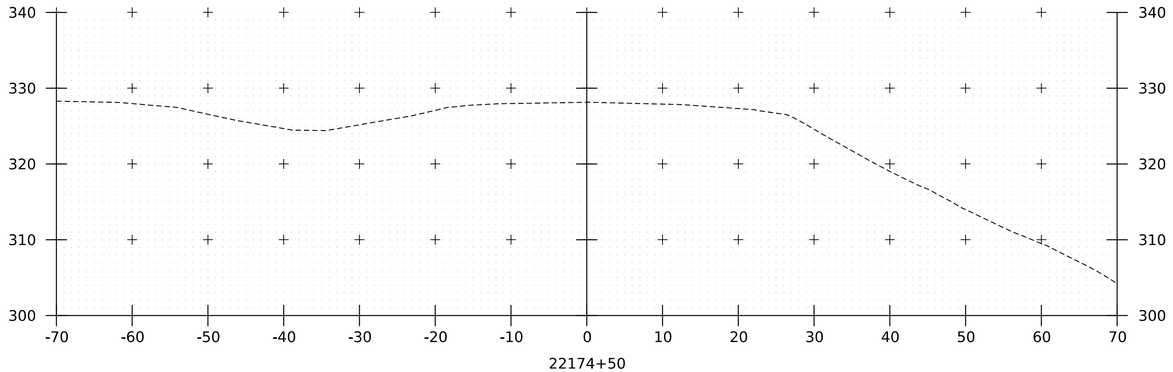
22175+75



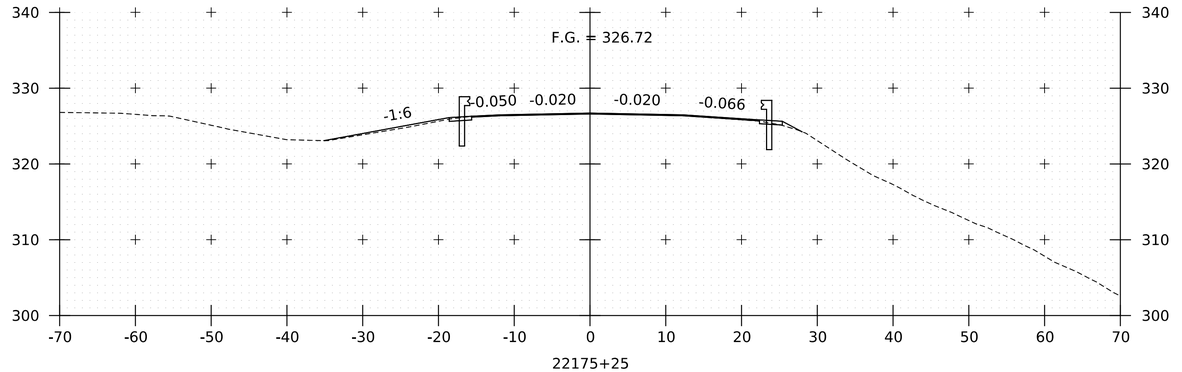
22174+75



22175+50



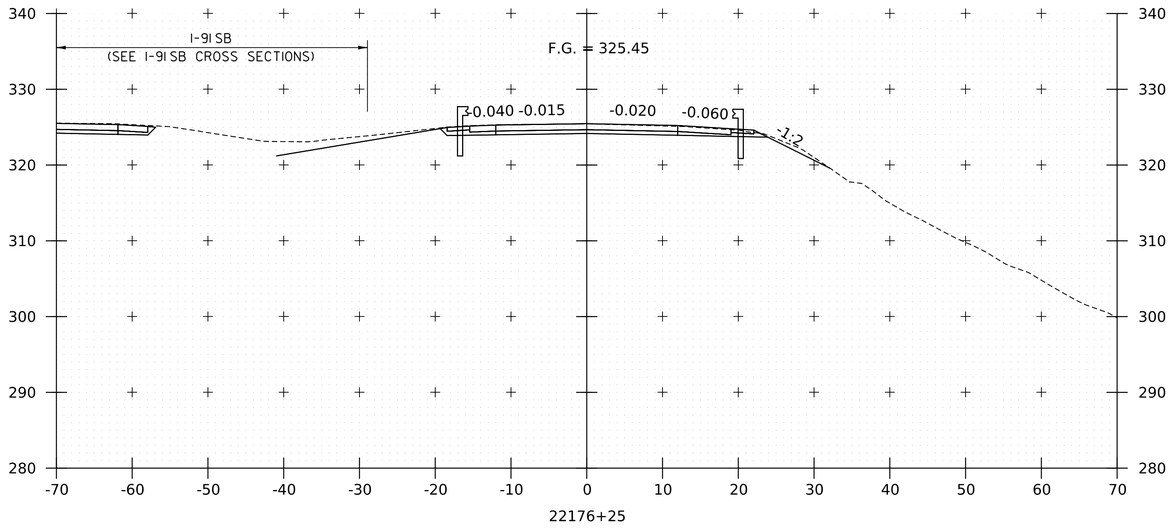
22174+50

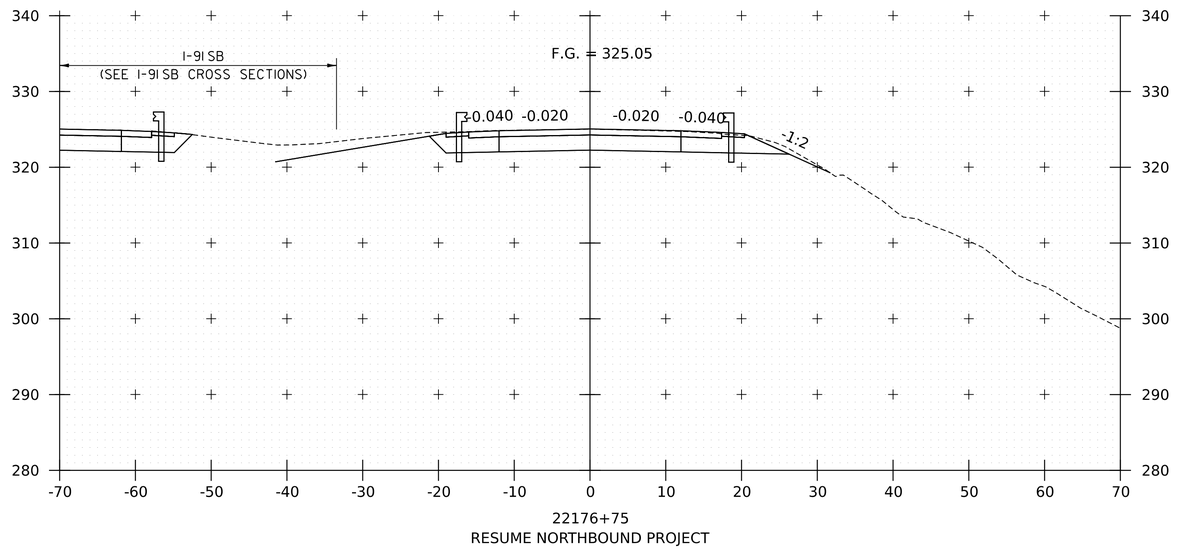


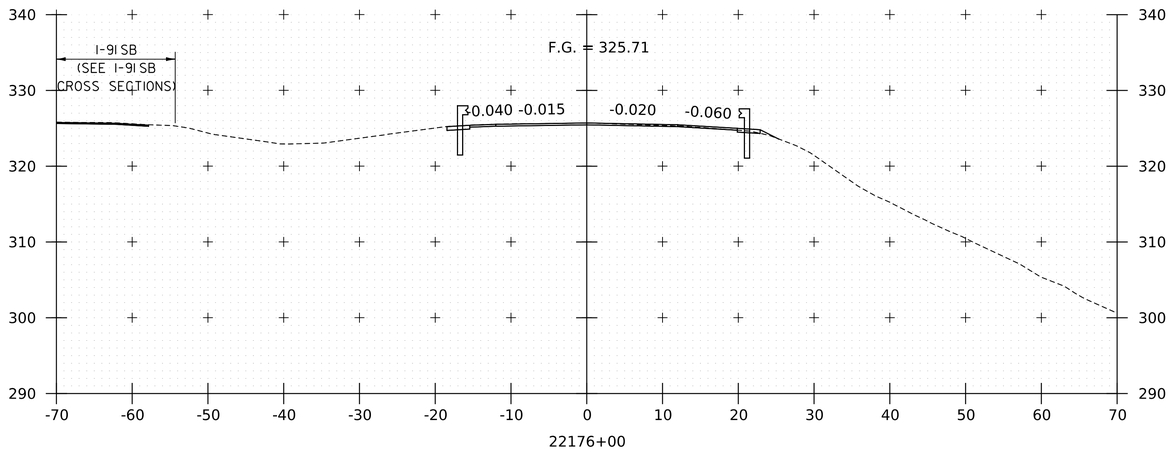
22175+25

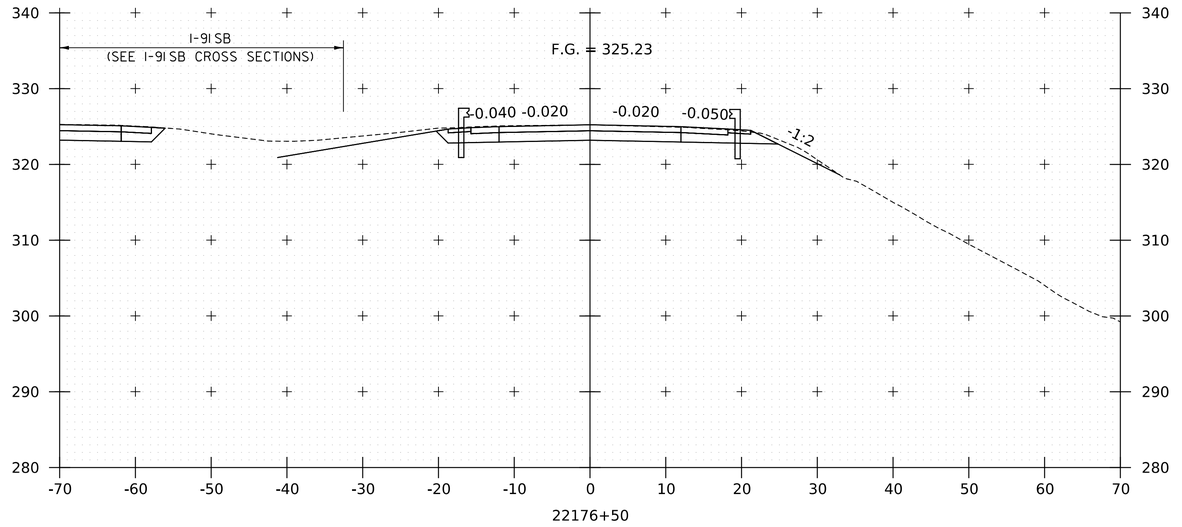
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 8	SHEET 170 OF 395

HNTB





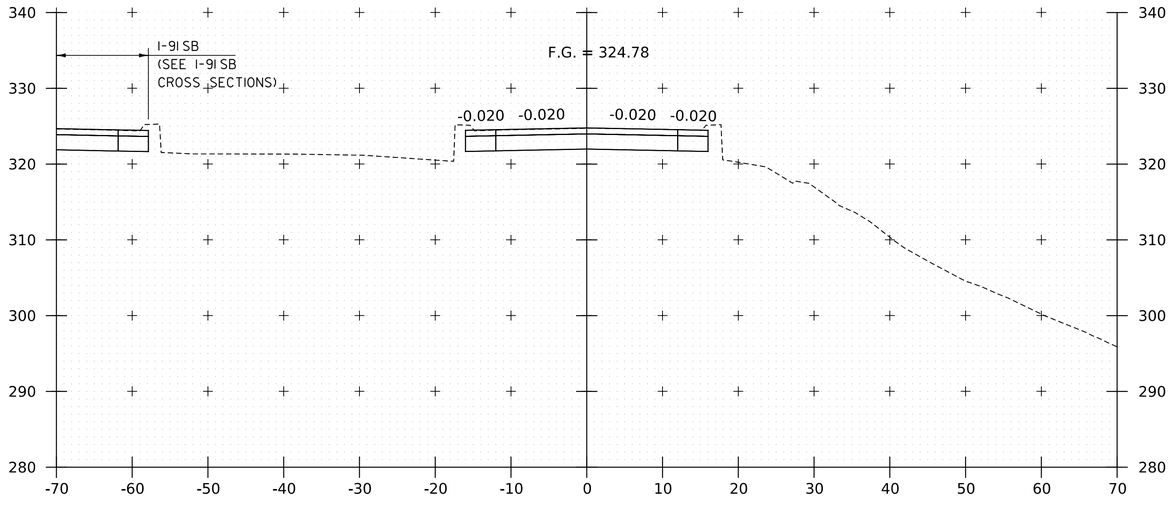




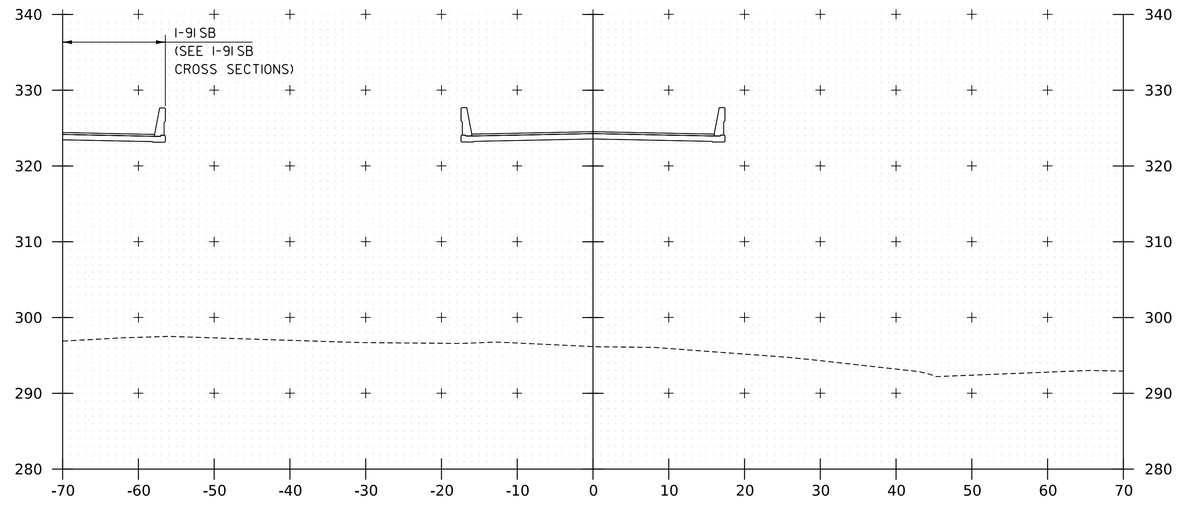
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 9

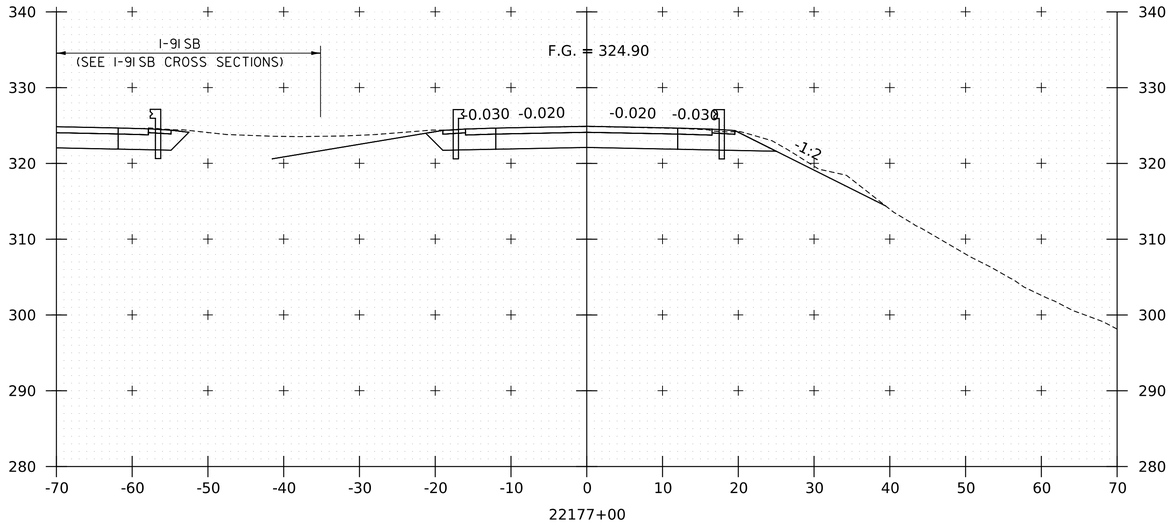
PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 171 OF 395



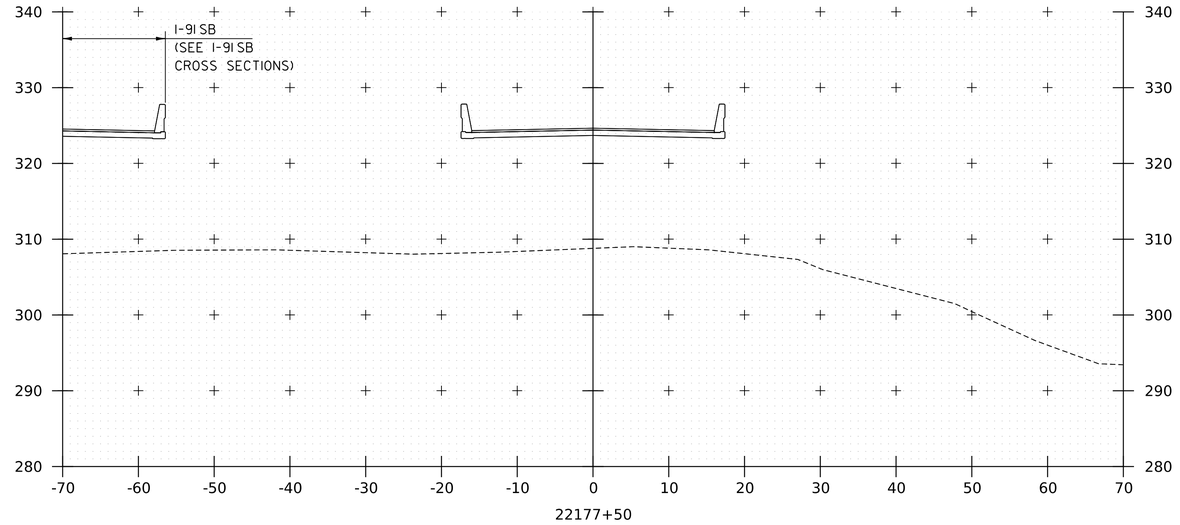
22177+25
BEGIN BRIDGE 26N
STA. 22177+29.92



22177+75



22177+00



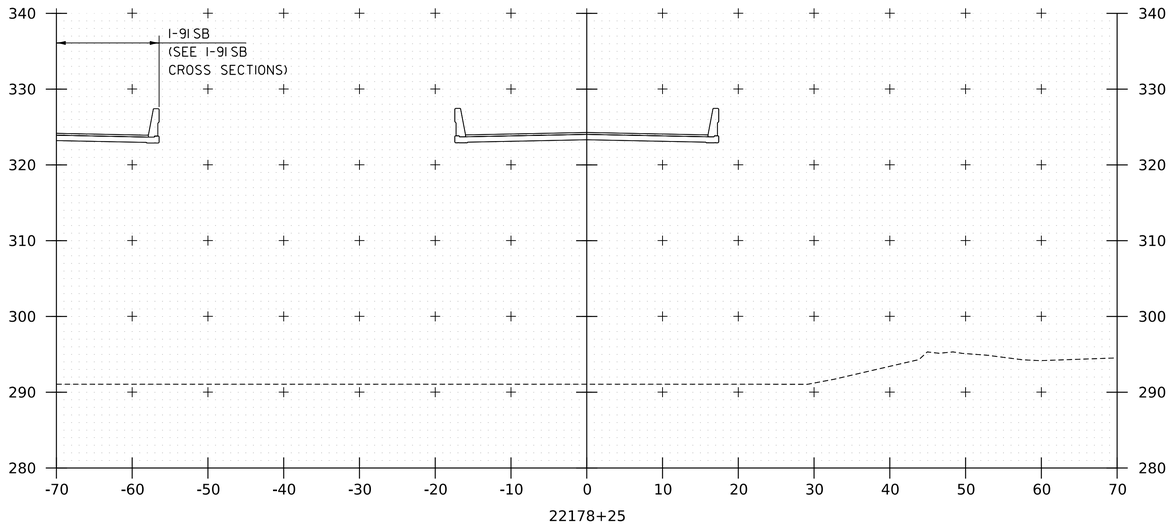
22177+50

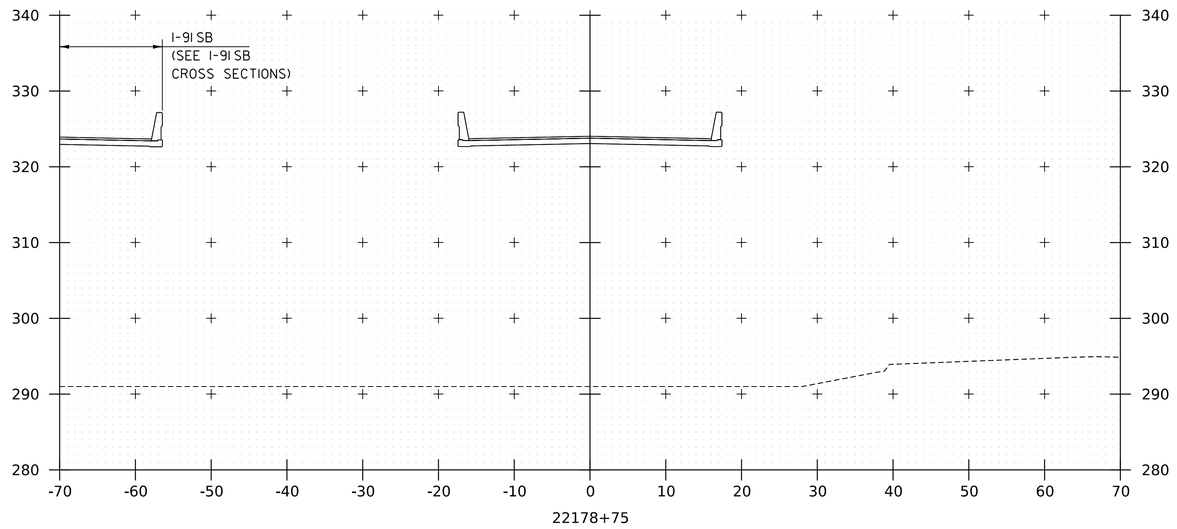
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

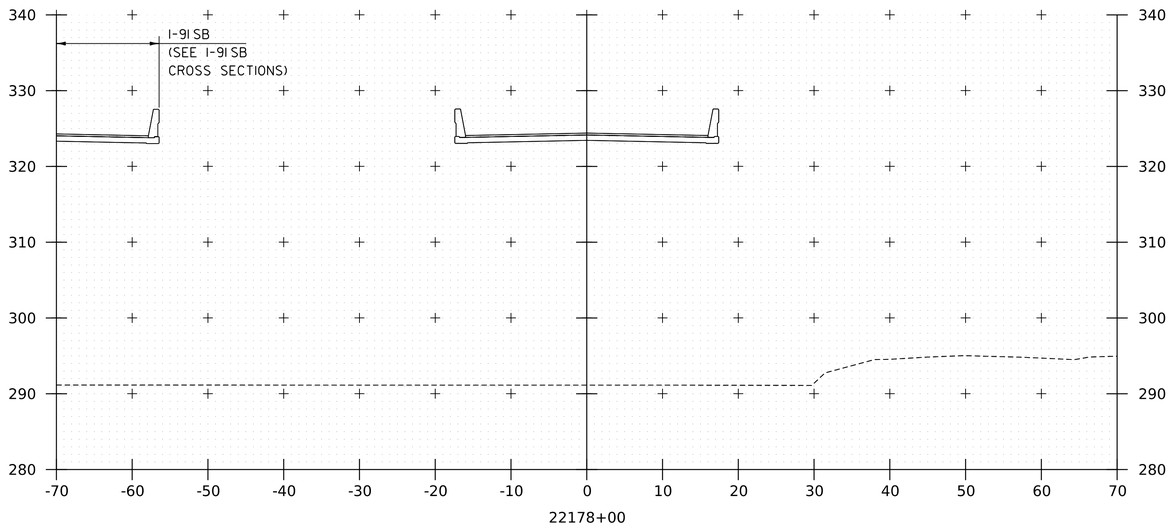
FILE NAME: zl2a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 10

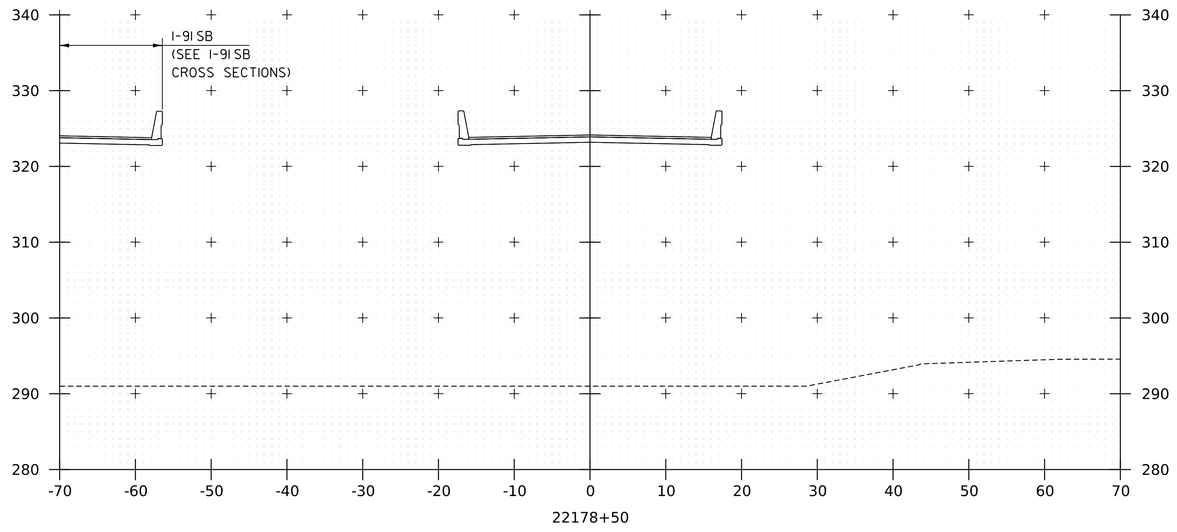
PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 172 OF 395

HNTB







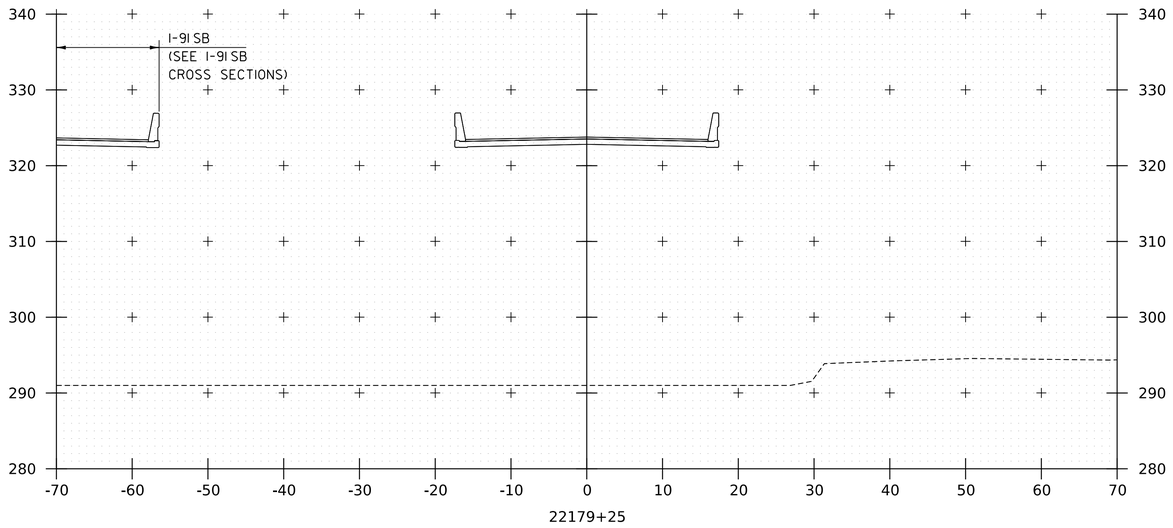


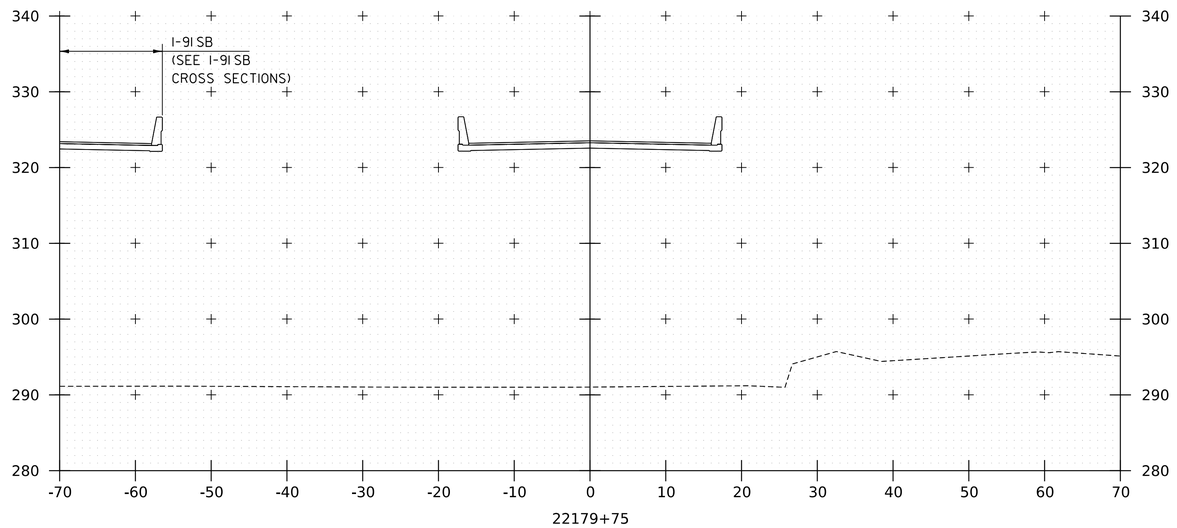
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

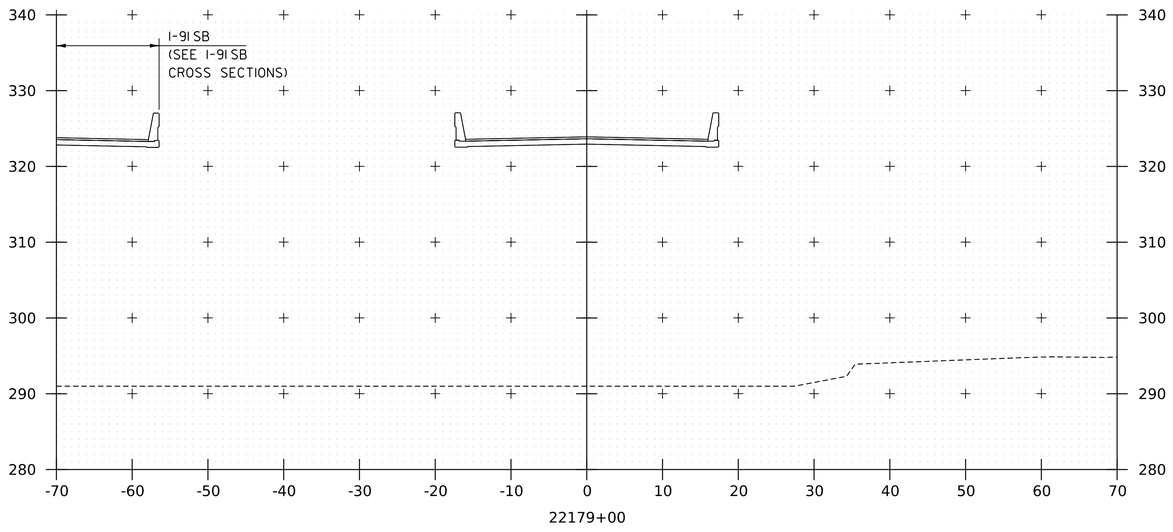
FILE NAME: zl2a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS II

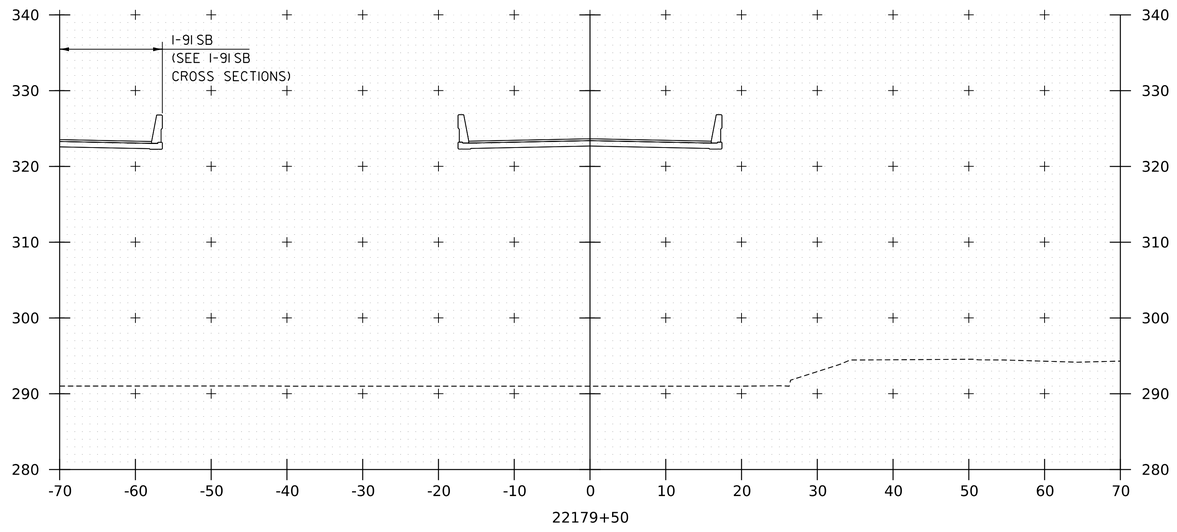
PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 173 OF 395

HNTB







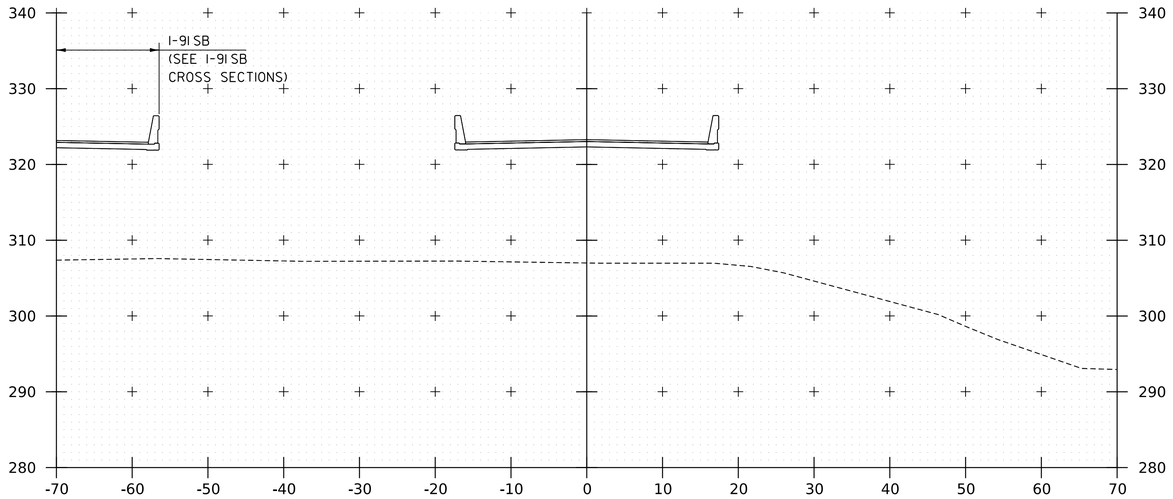


PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

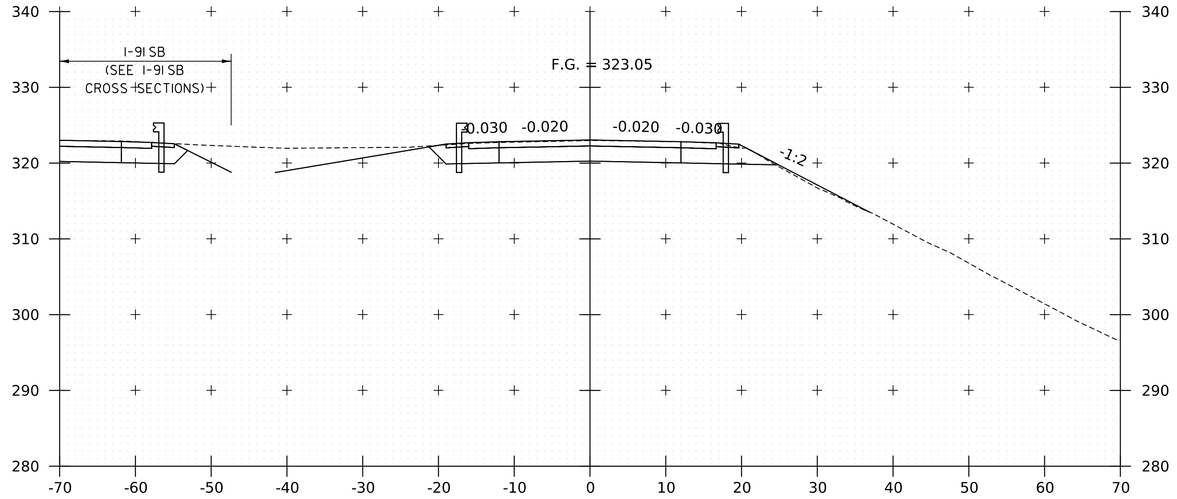
FILE NAME: zl2a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 12

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 174 OF 395

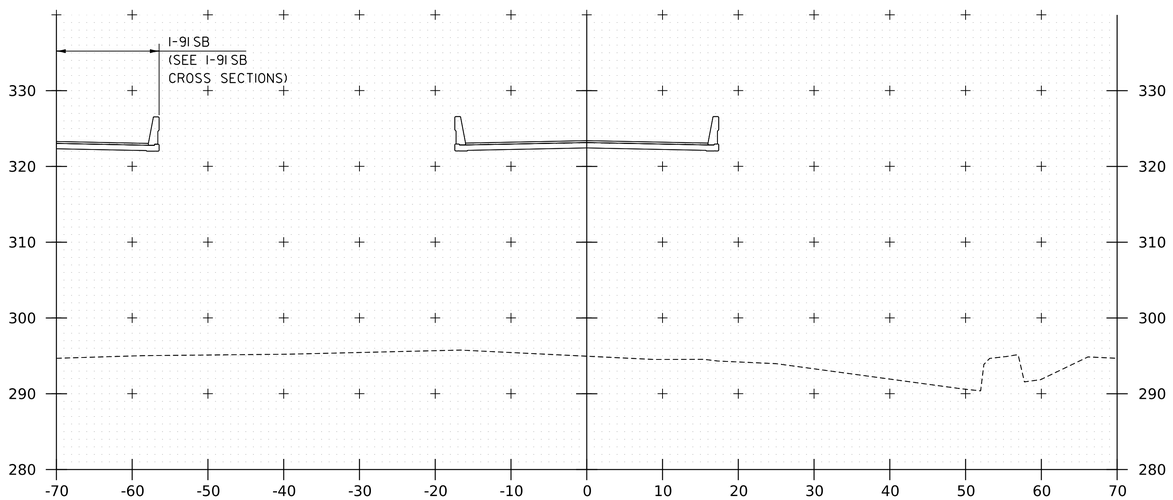
HNTB



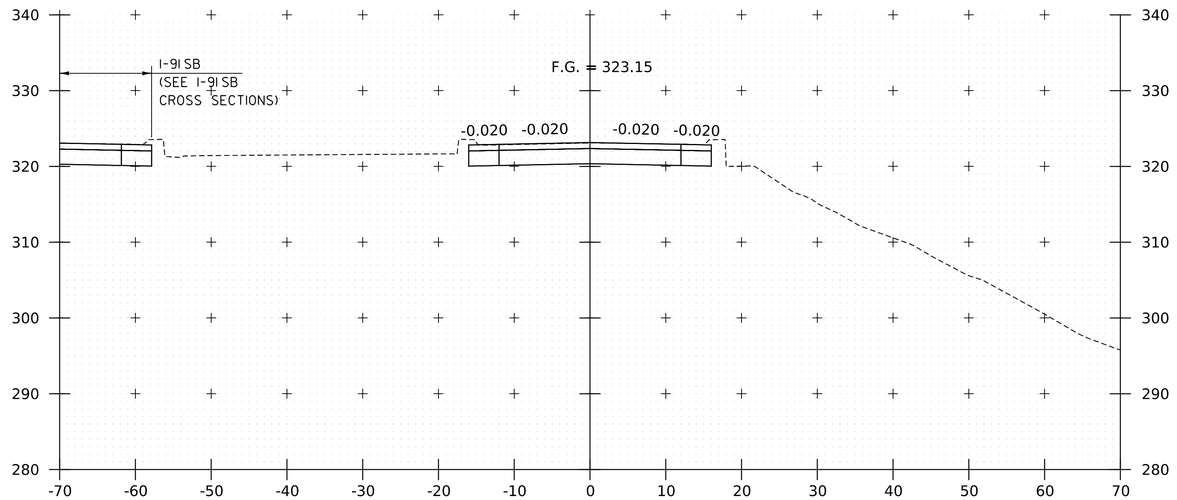
22180+25
END BRIDGE 26N
STA. 22180+41.58



22180+75



22180+00

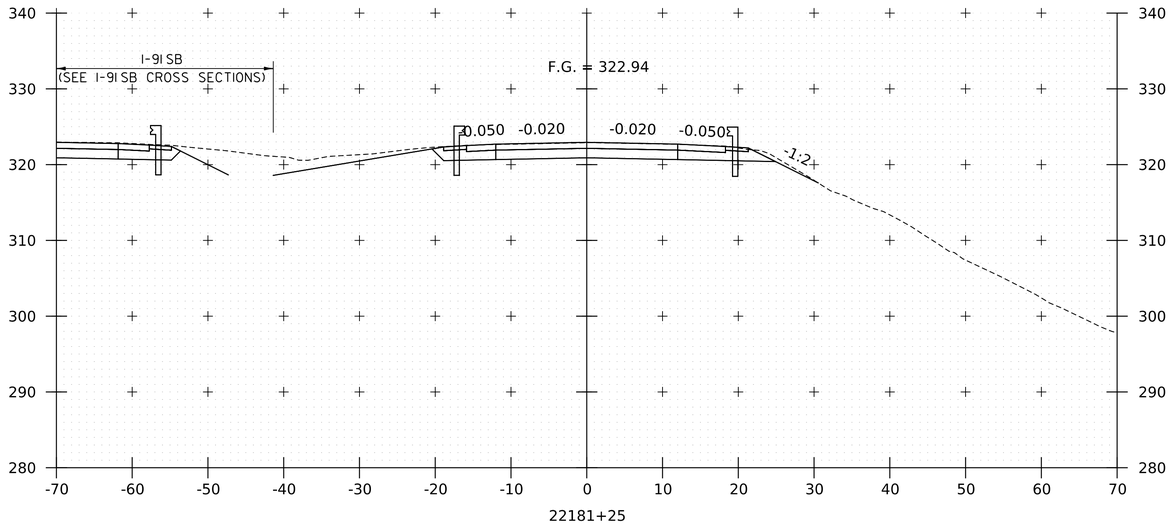


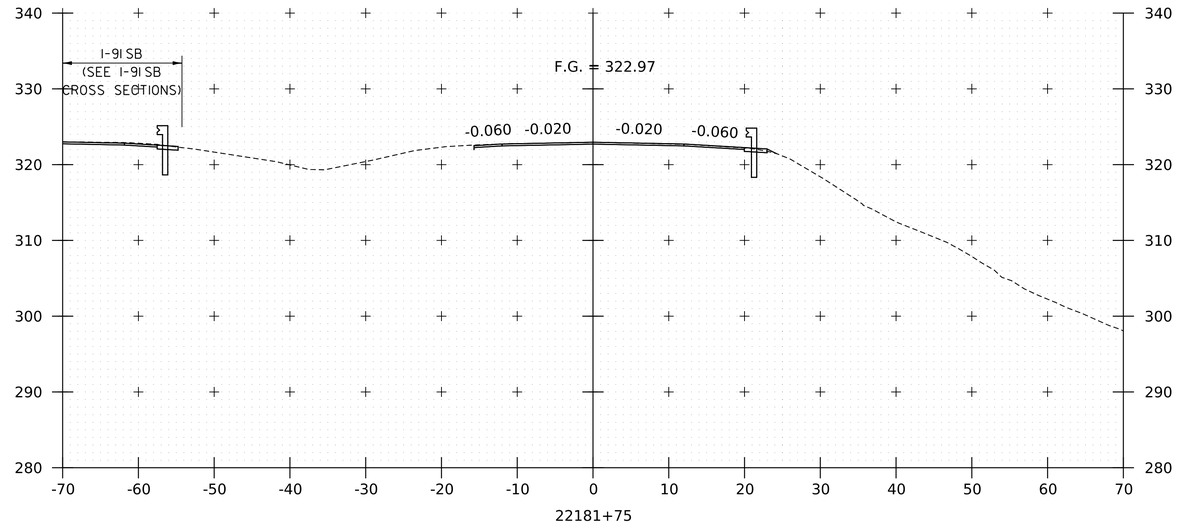
22180+50

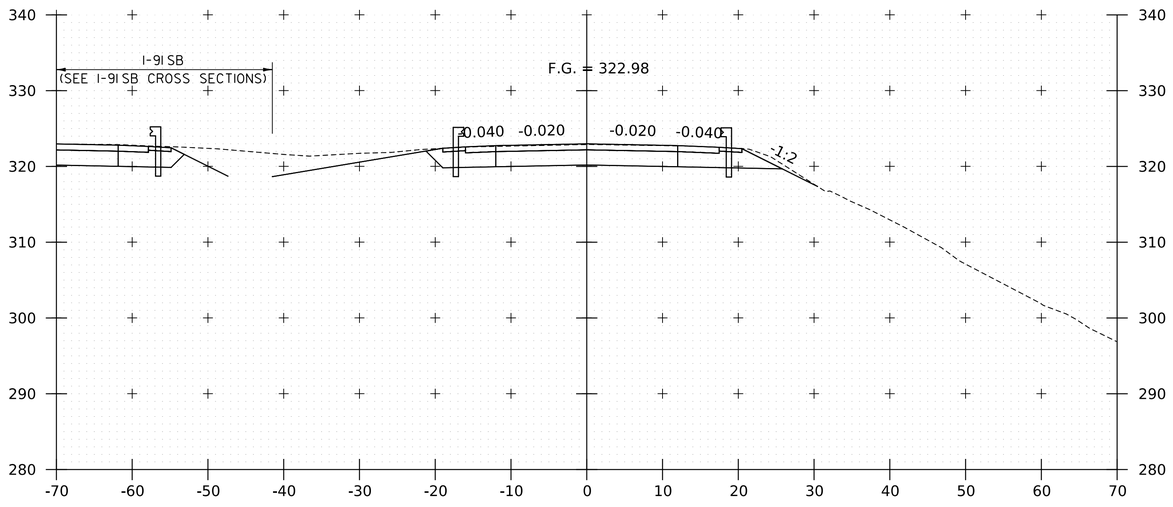
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 13	SHEET 175 OF 395

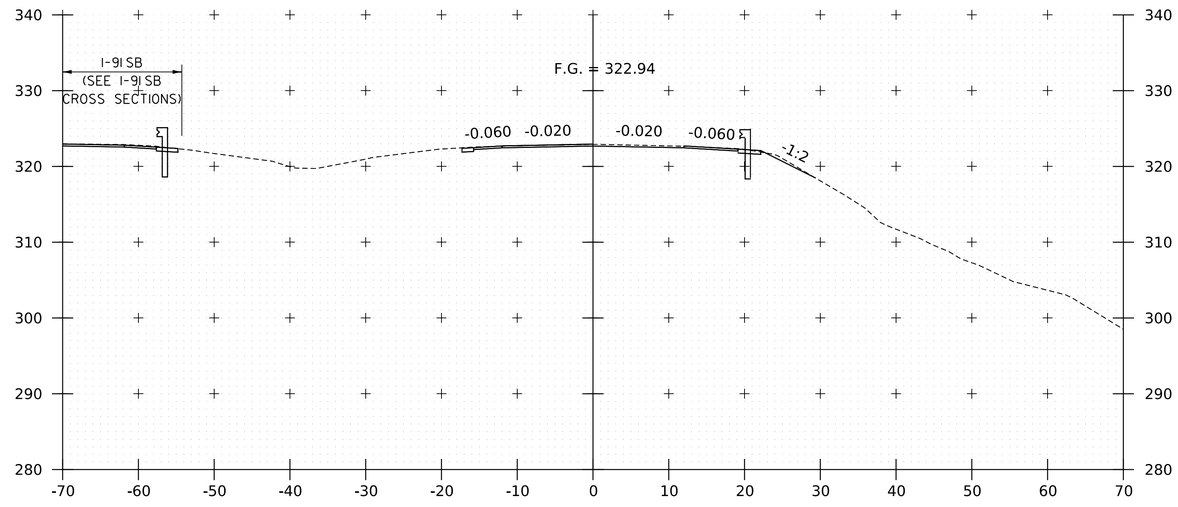
HNTB







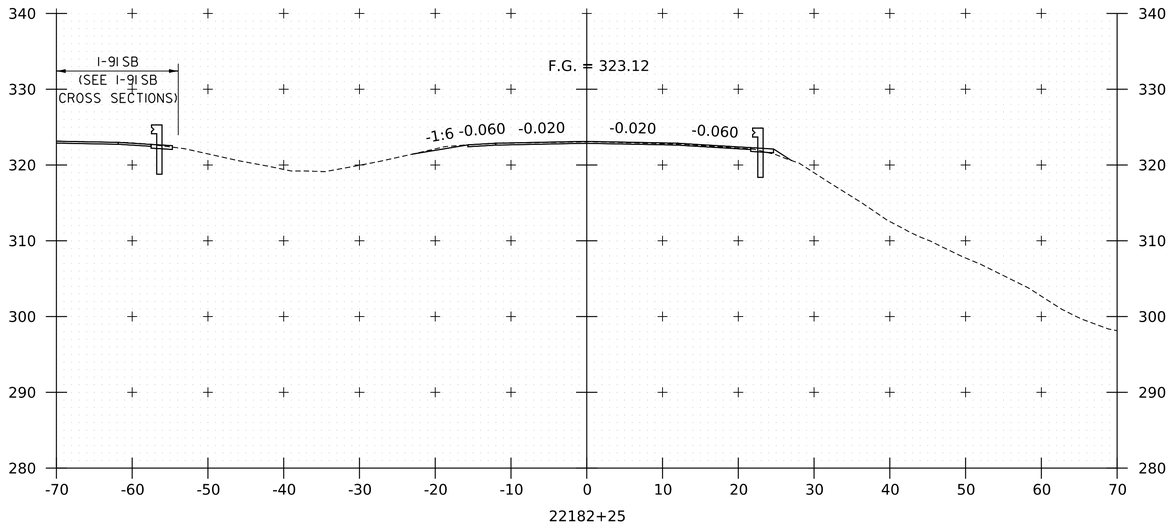
STOP NORTHBOUND PROJECT

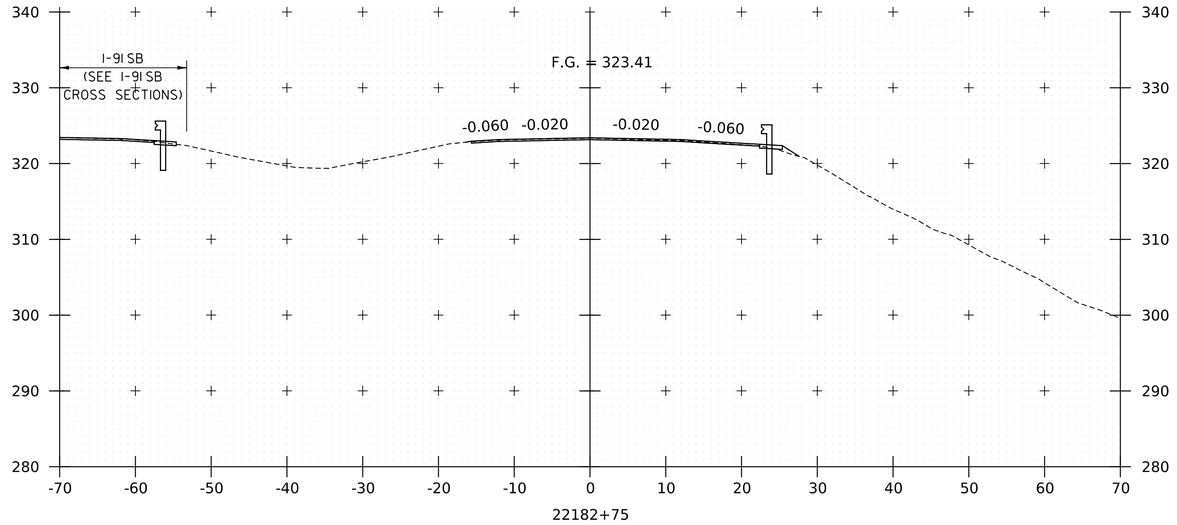


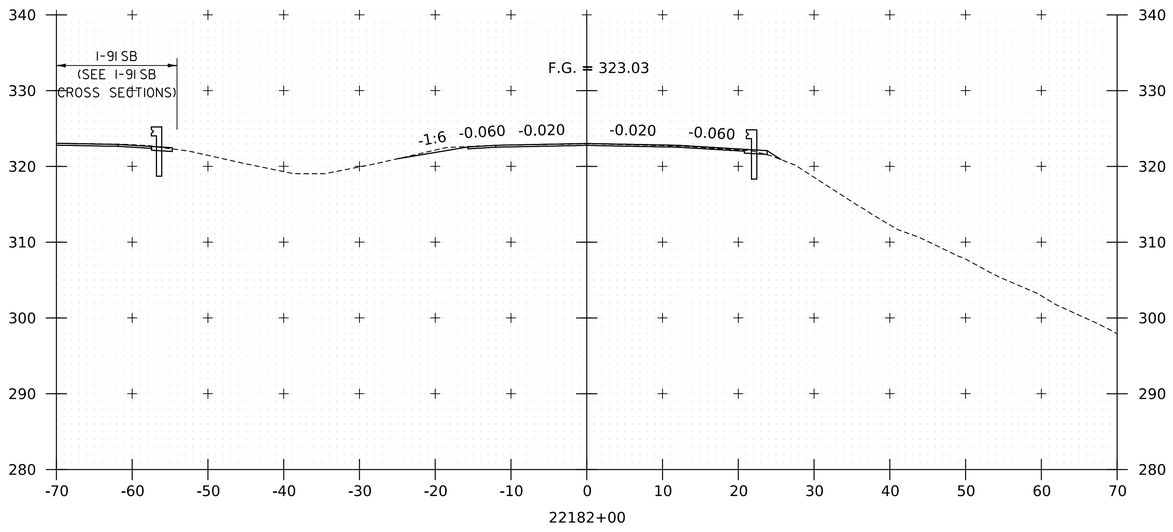
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

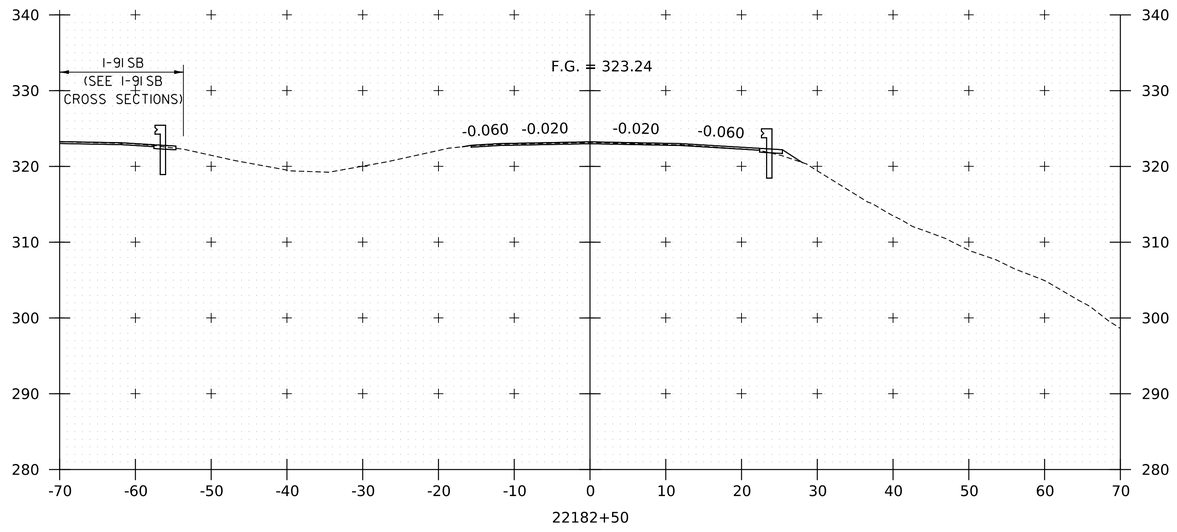
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 14	SHEET 176 OF 395

HNTB







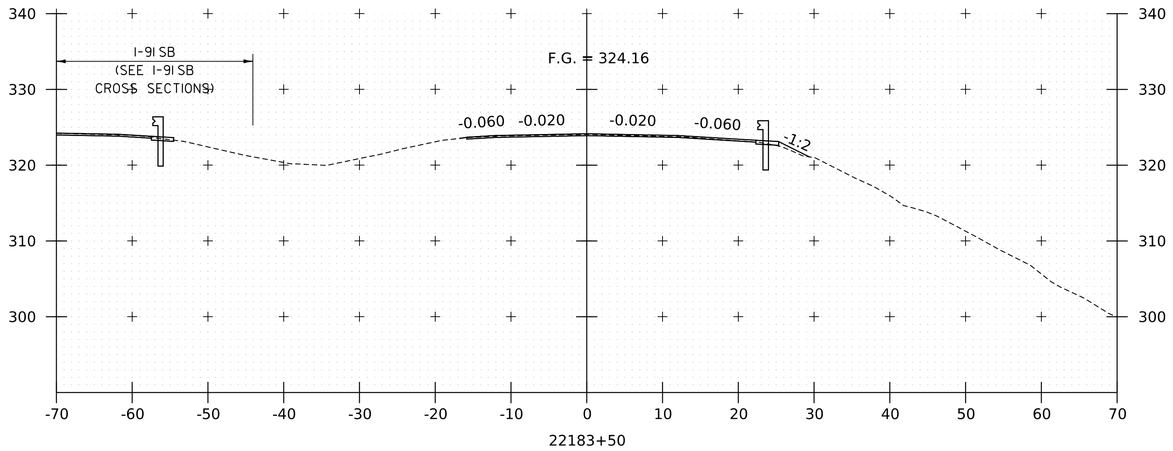


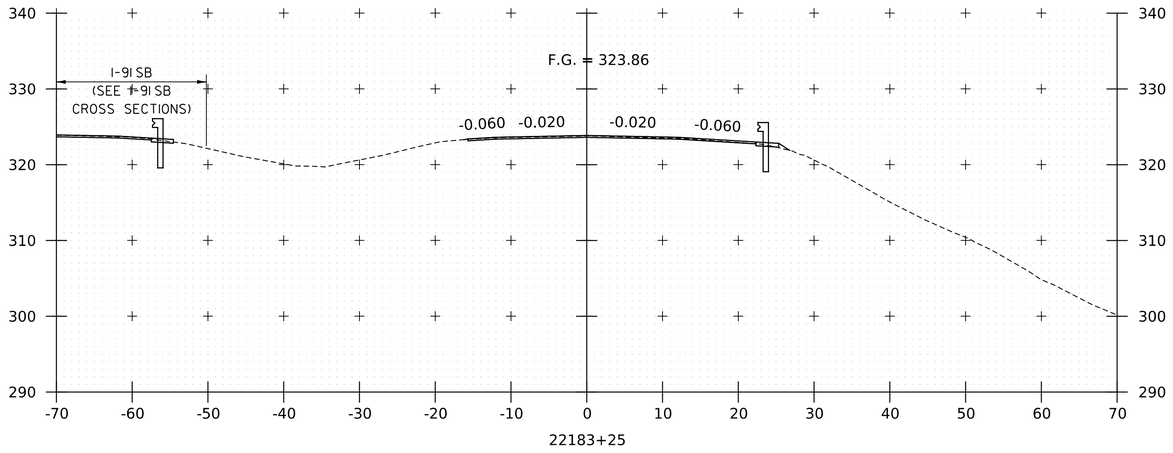
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

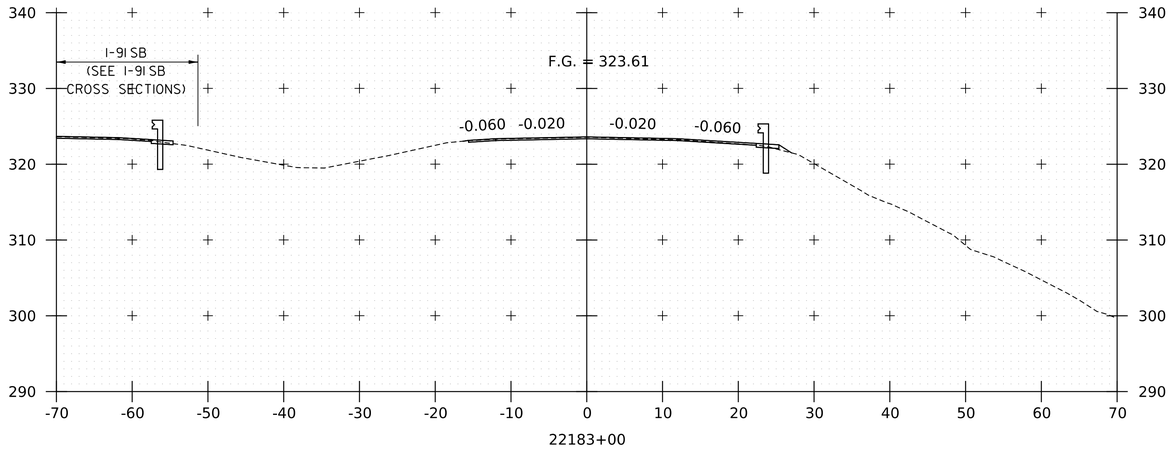
FILE NAME: zl2a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 15

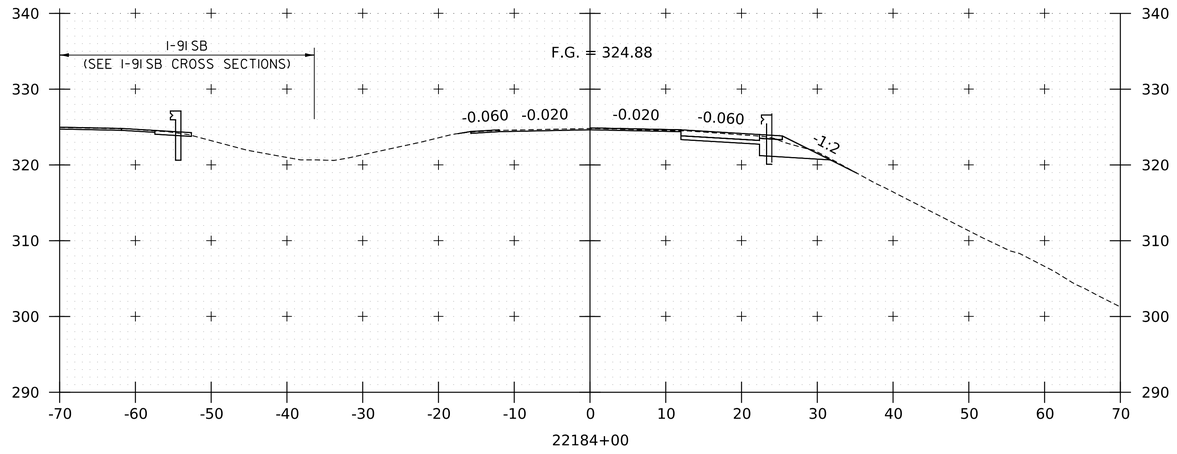
PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 177 OF 395

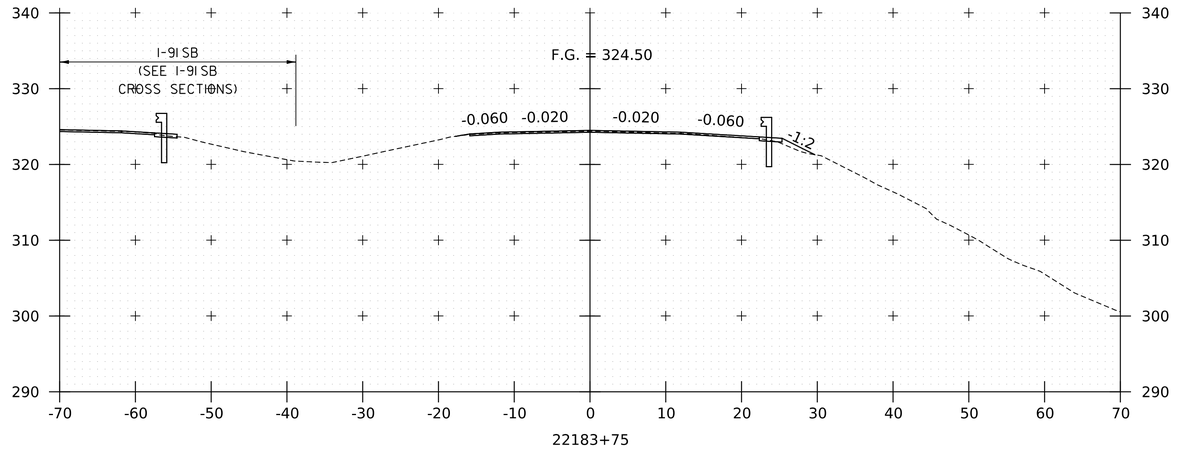
HNTB





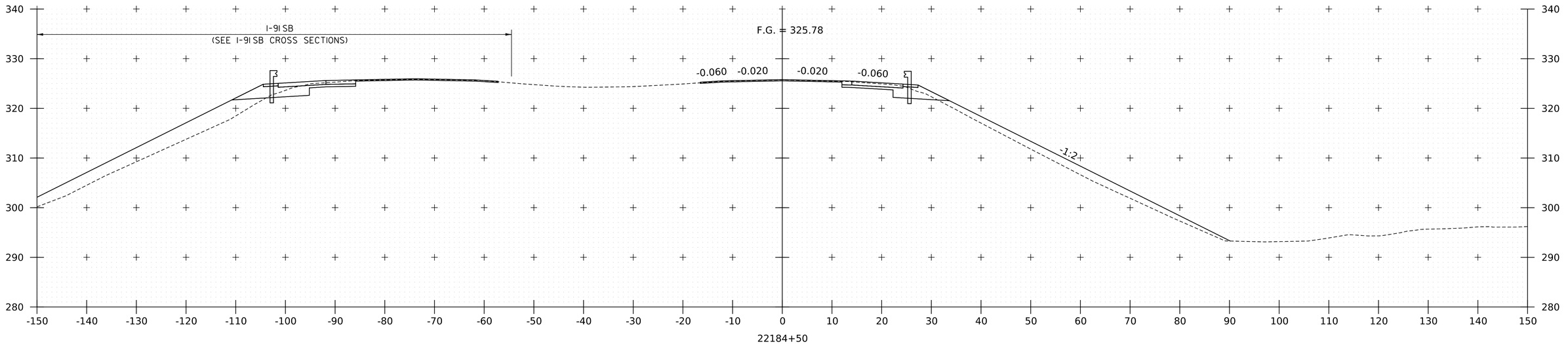




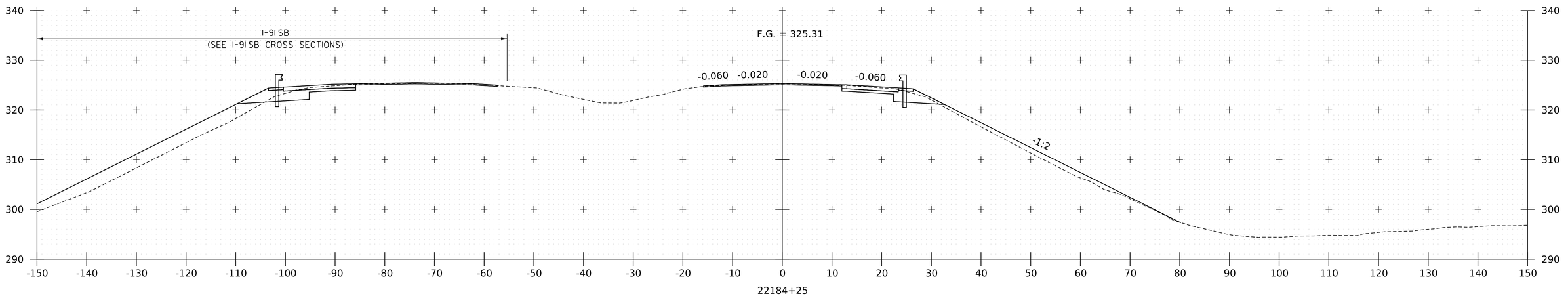


HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 16	SHEET 178 OF 395



22184+50

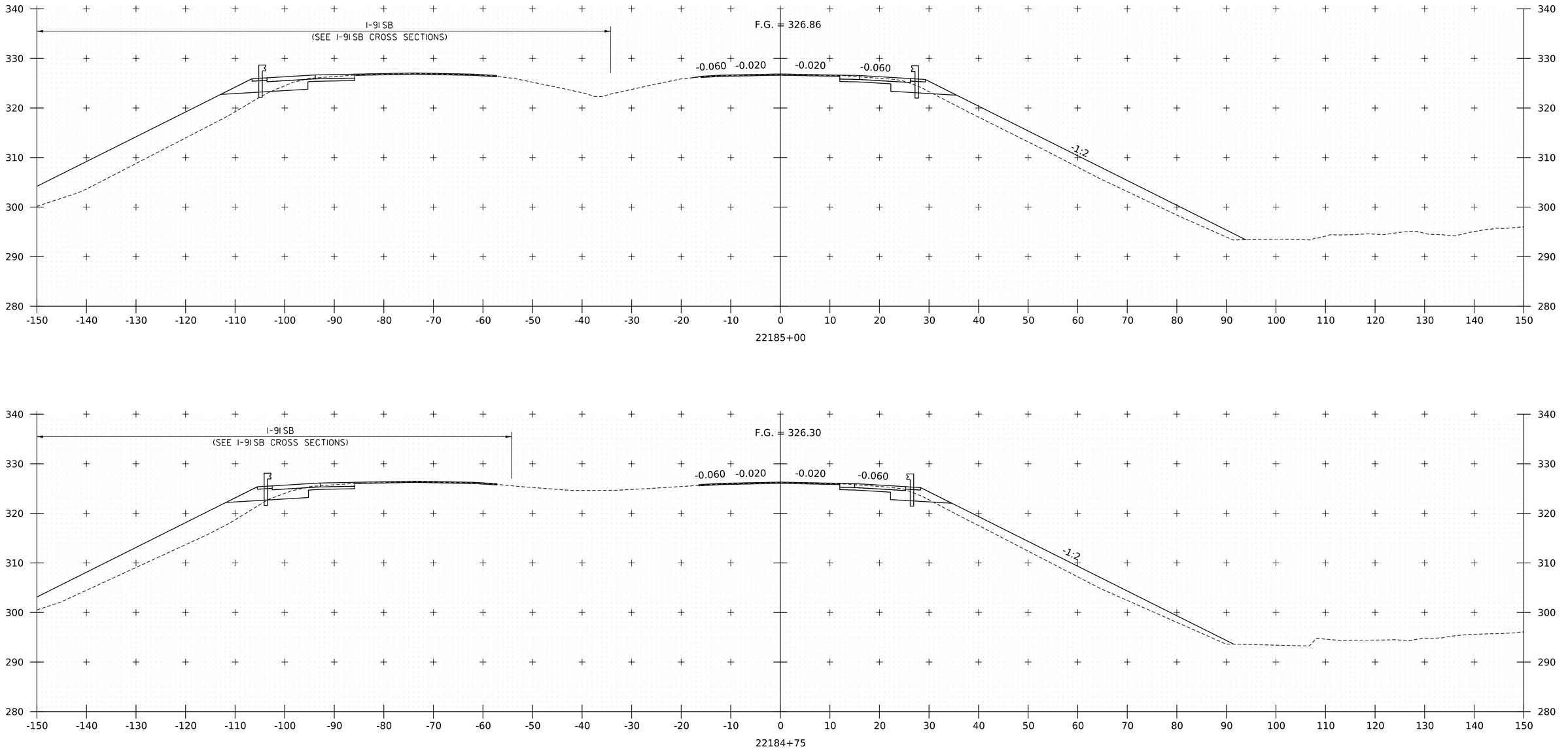


22184+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

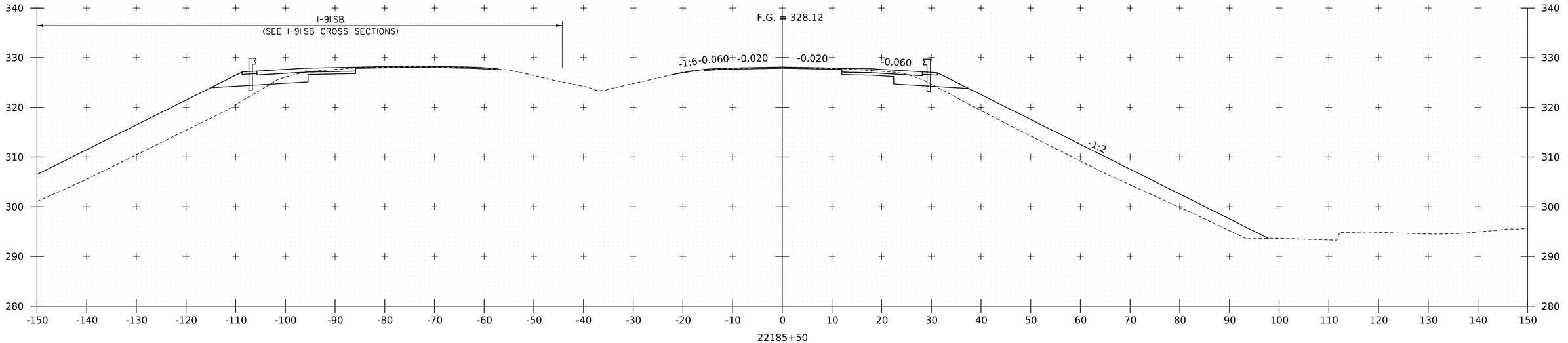
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 17	SHEET 179 OF 395

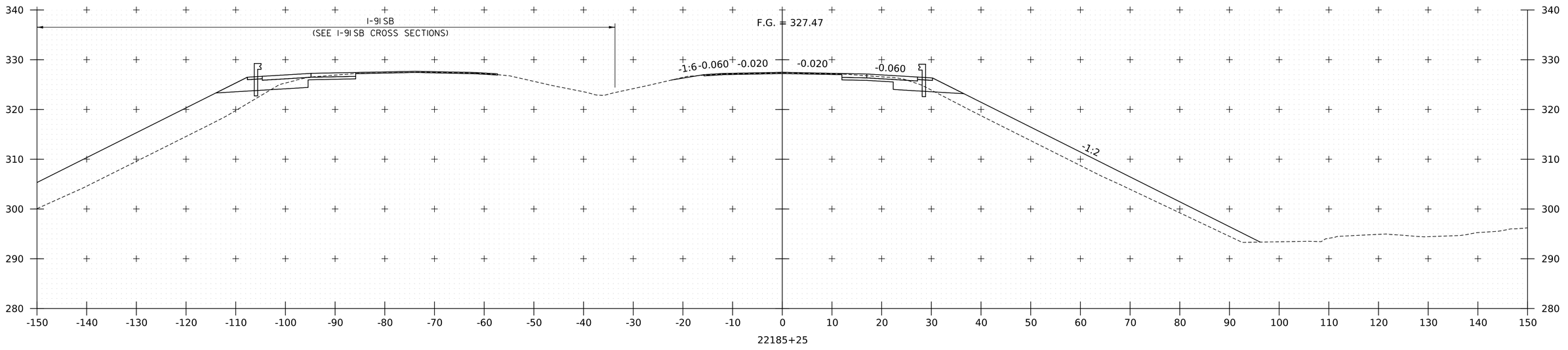
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 18	SHEET 180 OF 395

HNTB



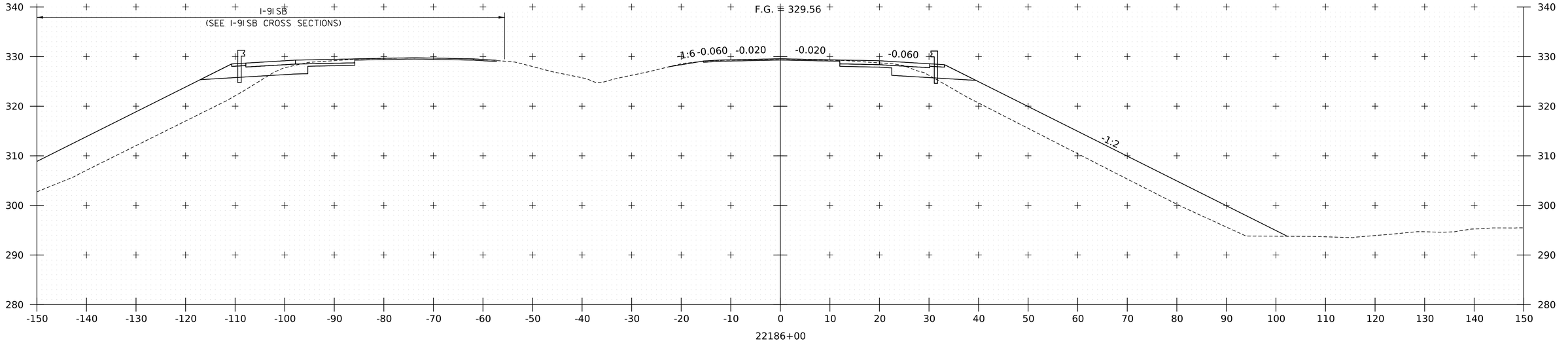


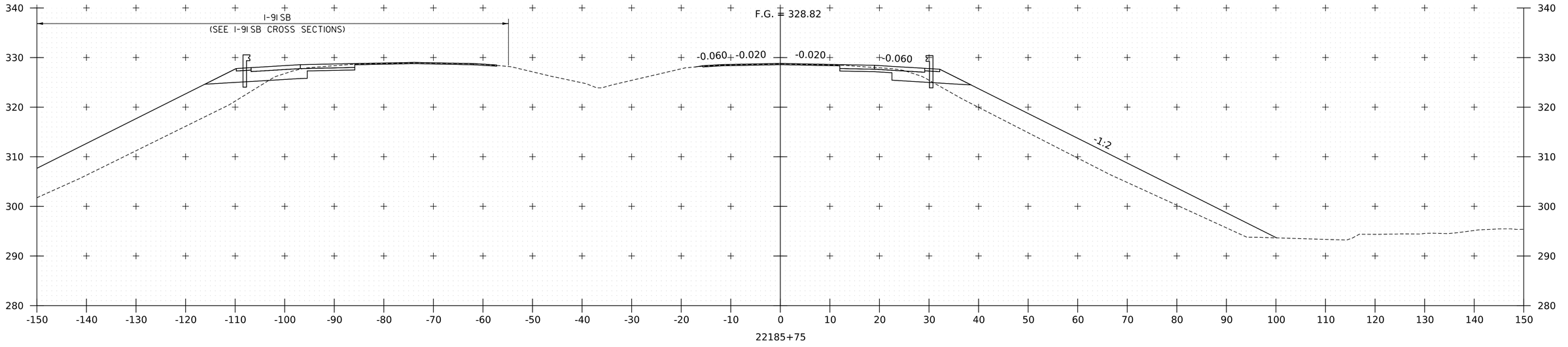
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 19

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 181 OF 395

HNTB

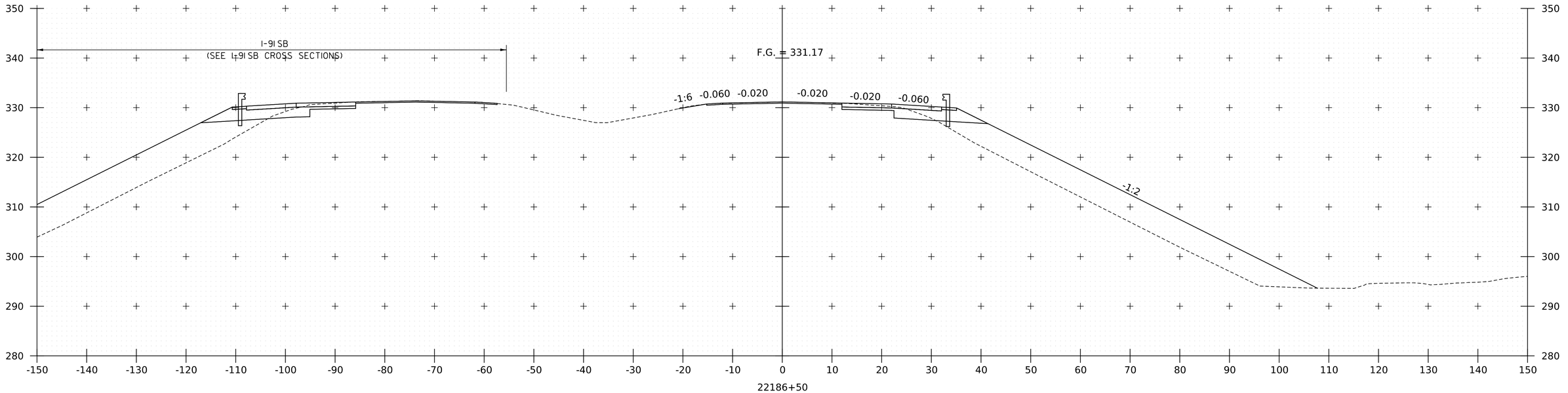


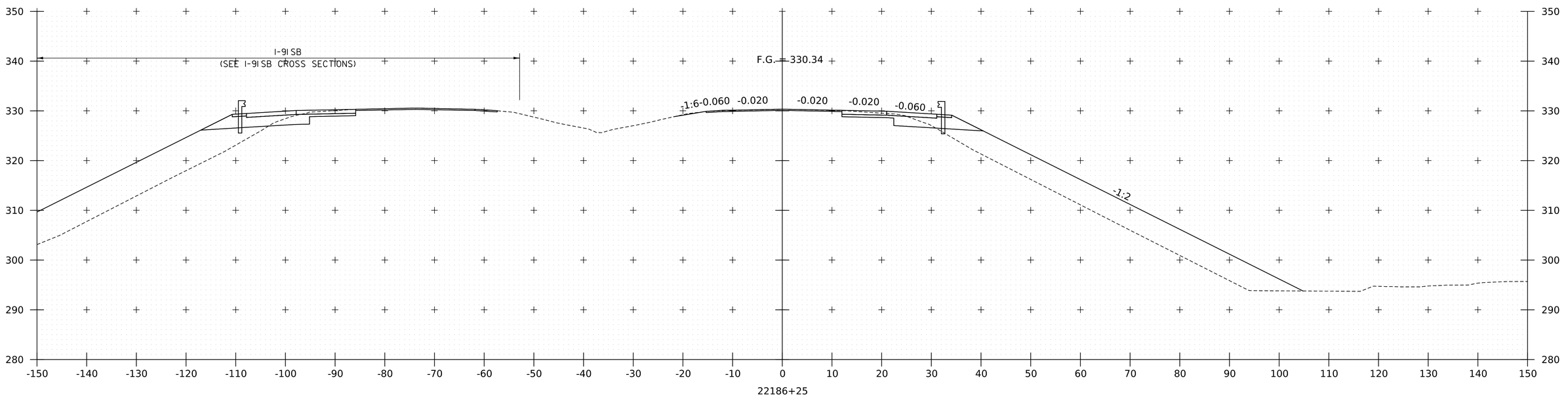


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 20	SHEET 182 OF 395

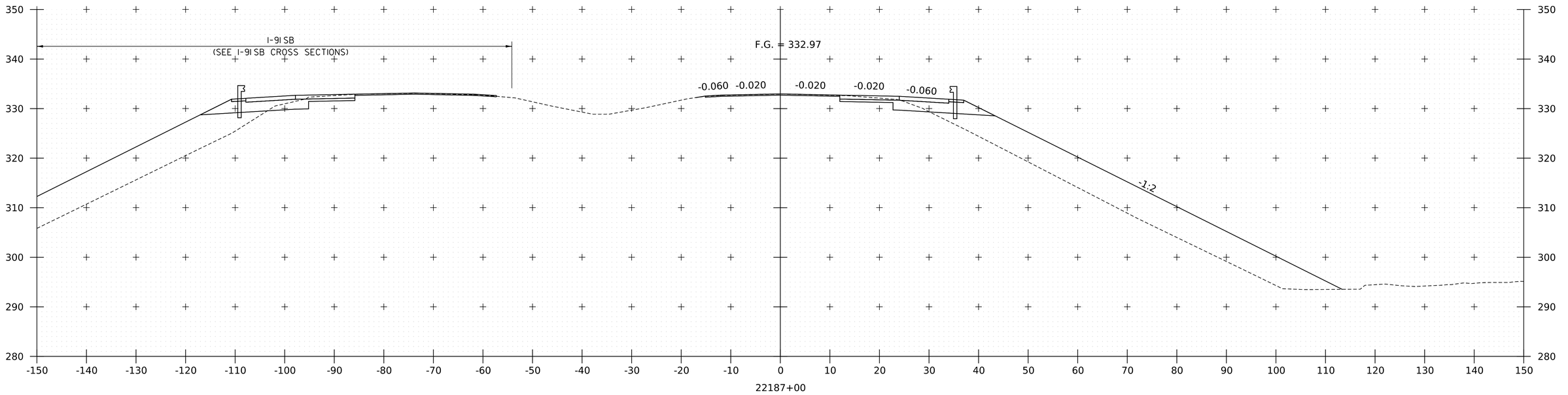
HNTB

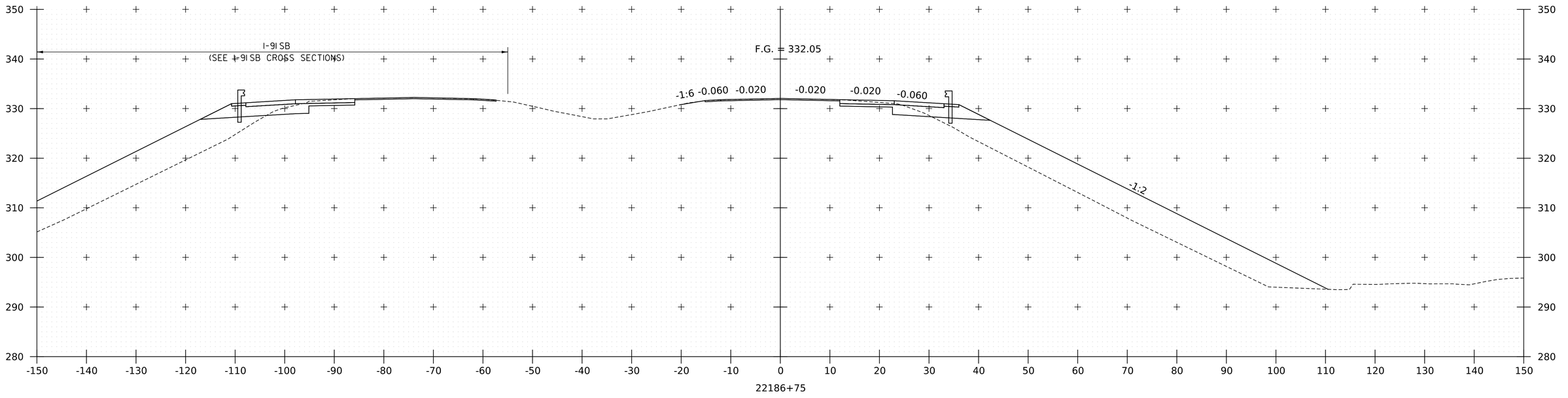




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 21	SHEET 183 OF 395

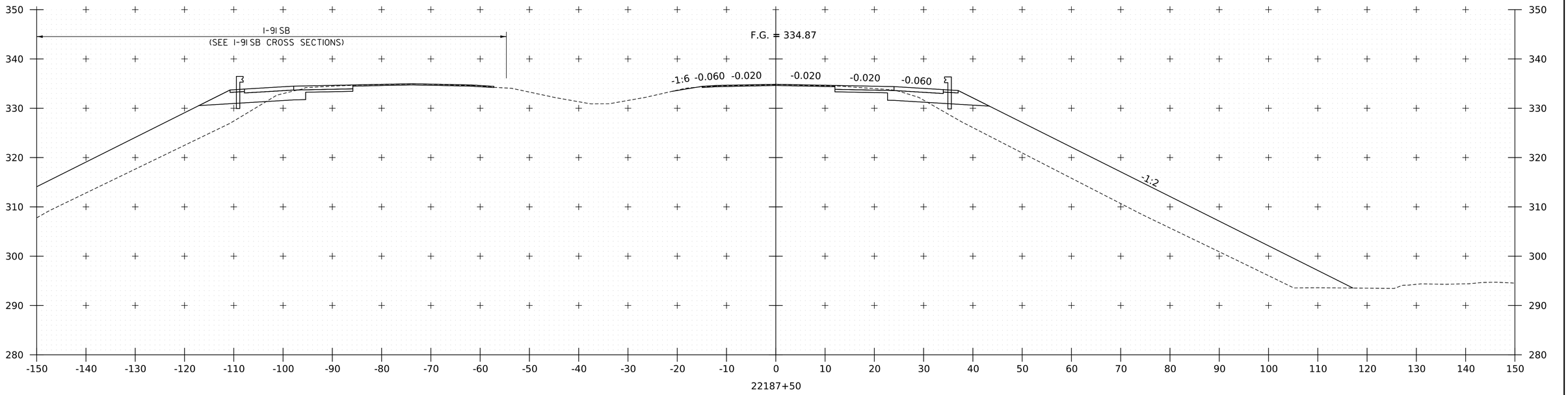
HNTB

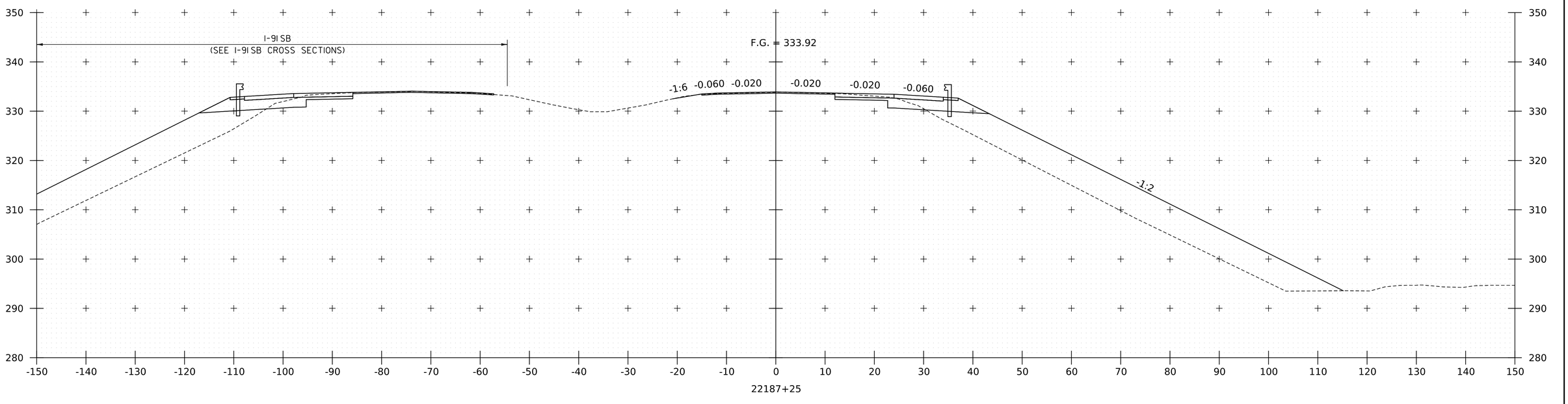




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 22	SHEET 184 OF 395

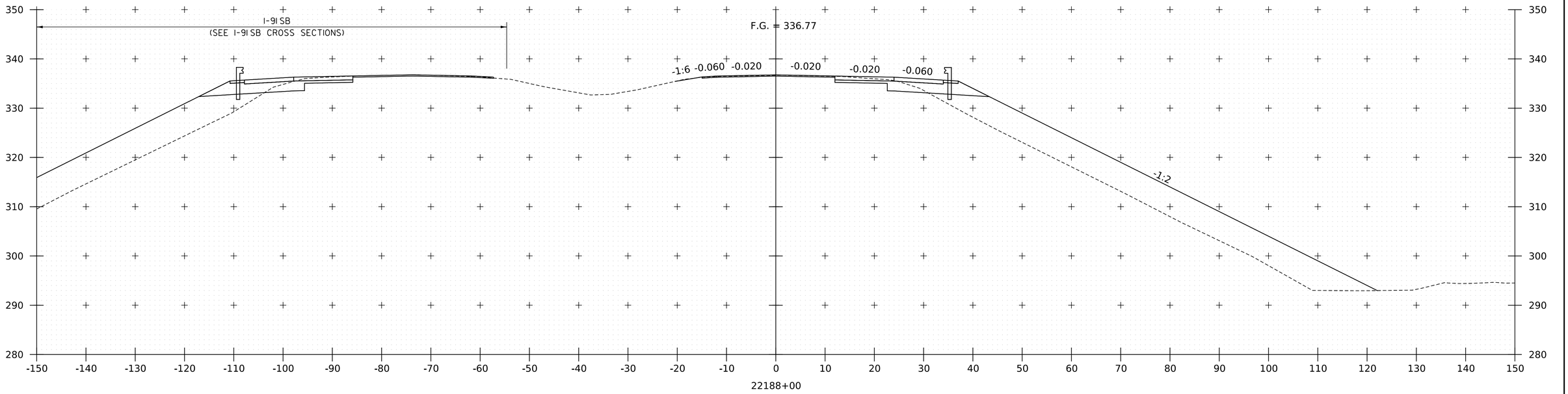
HNTB

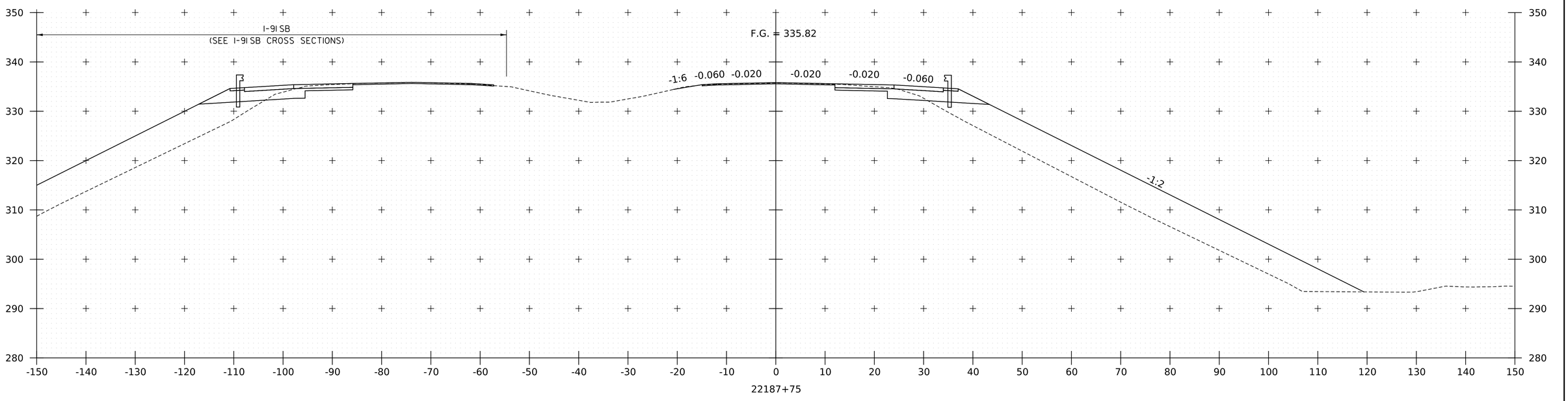




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 23	SHEET 185 OF 395

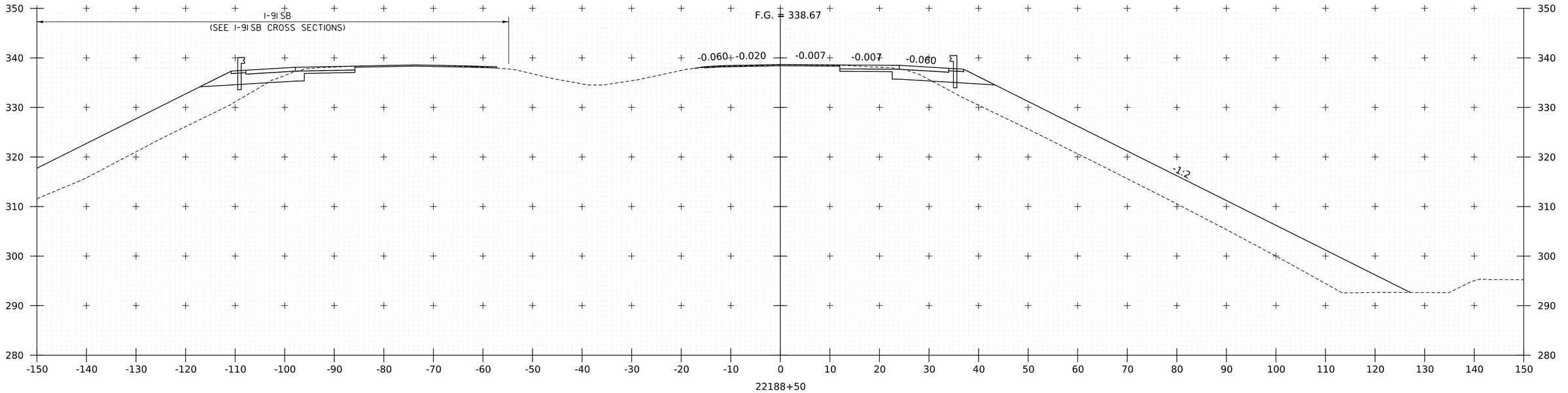
HNTB

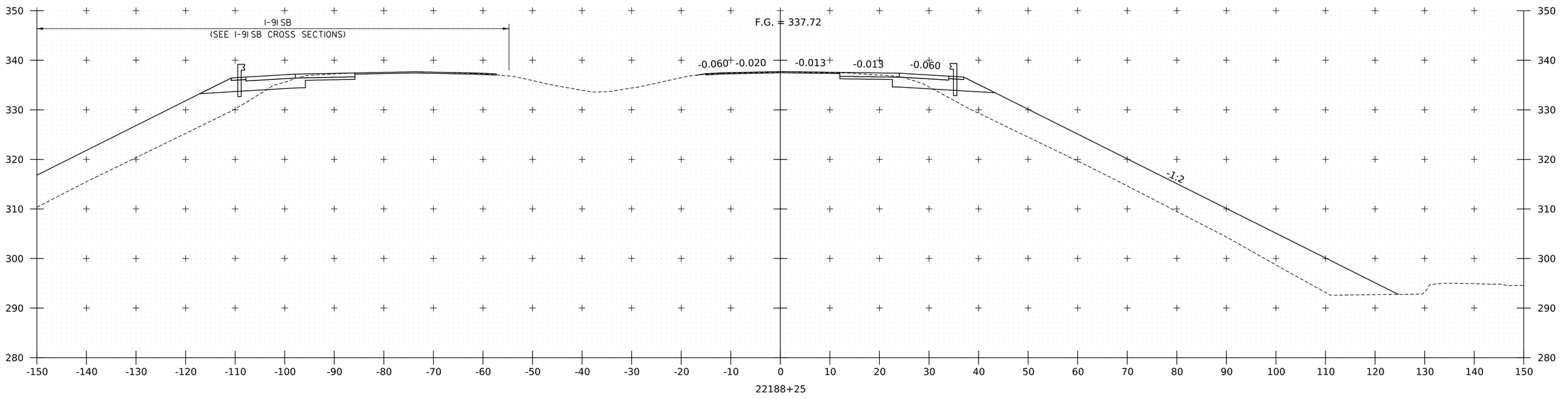




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 24	SHEET 186 OF 395

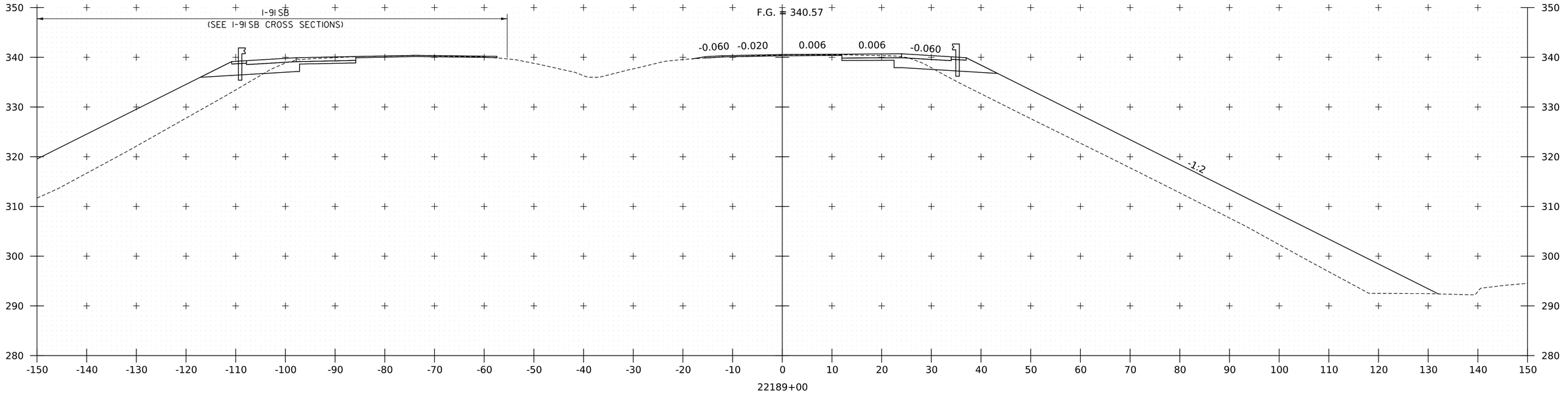
HNTB

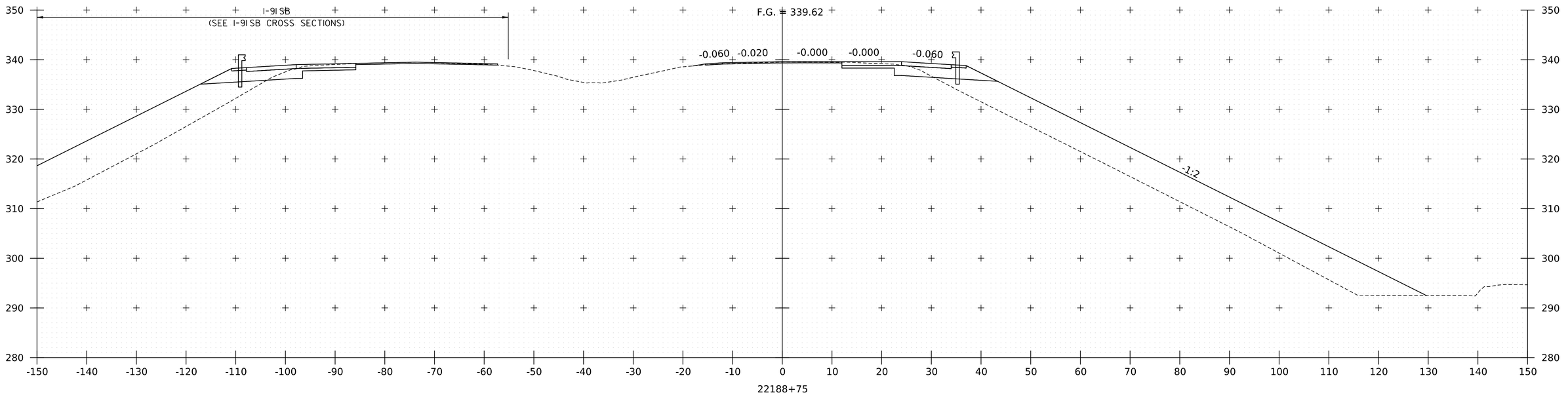




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 25	SHEET 187 OF 395

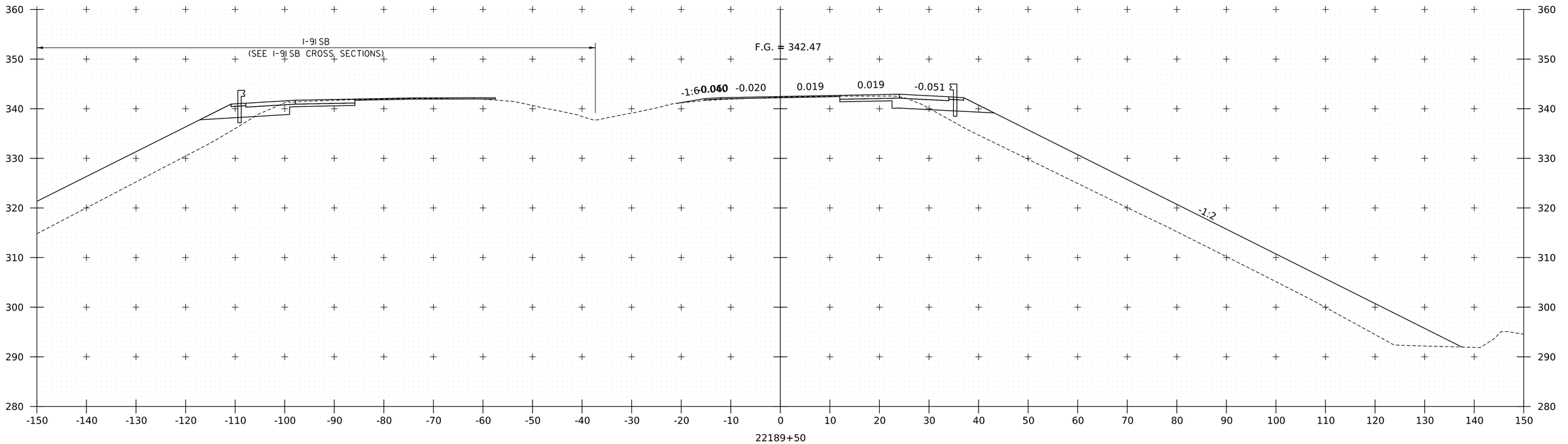
HNTB

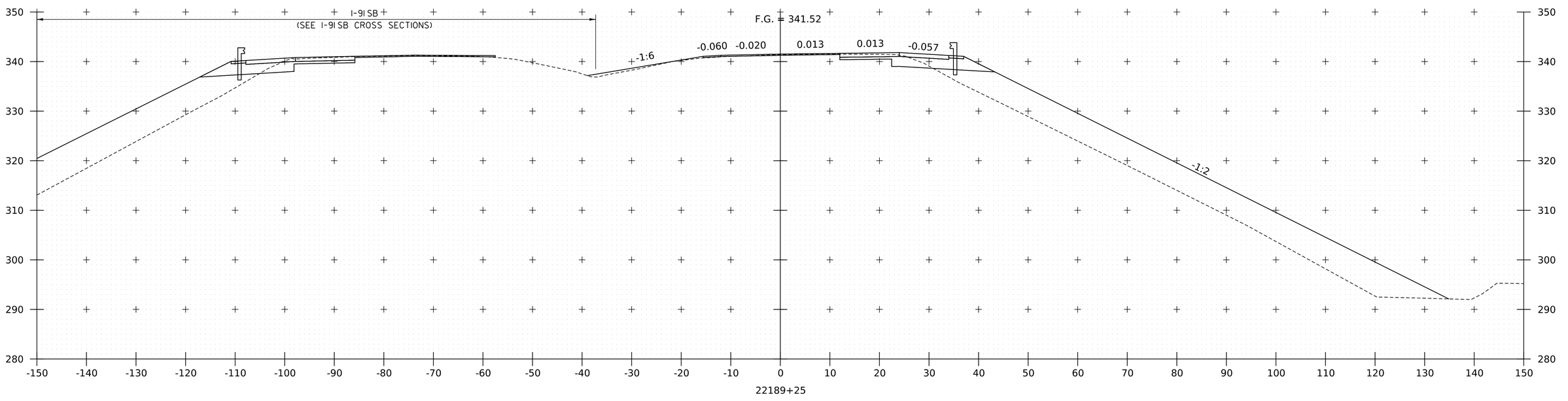




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 26	SHEET 188 OF 395

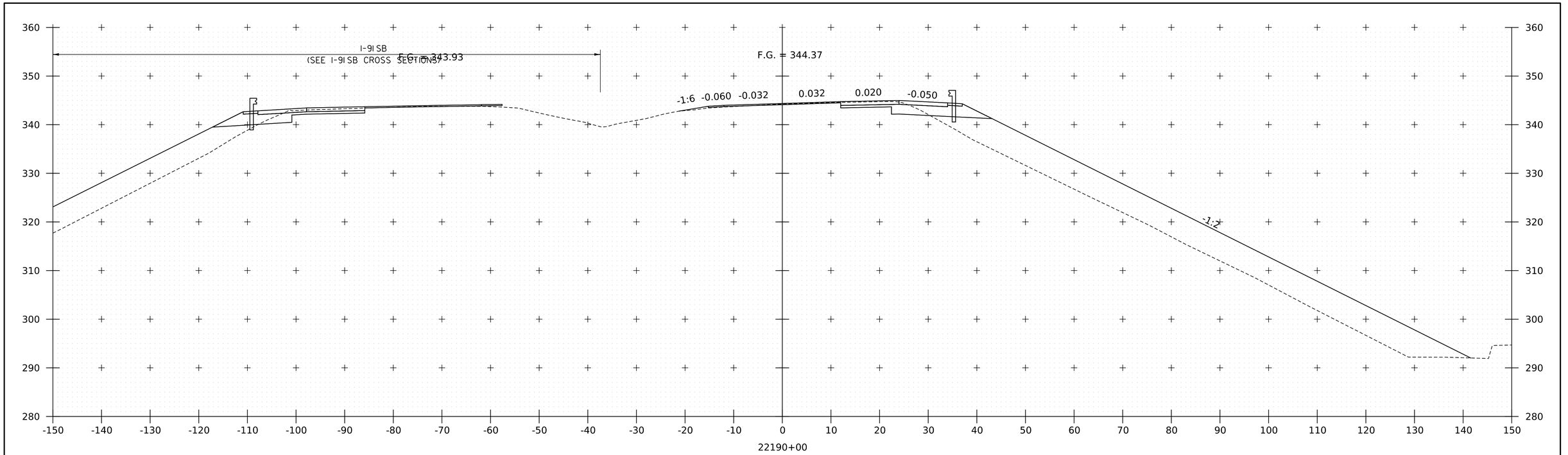
HNTB

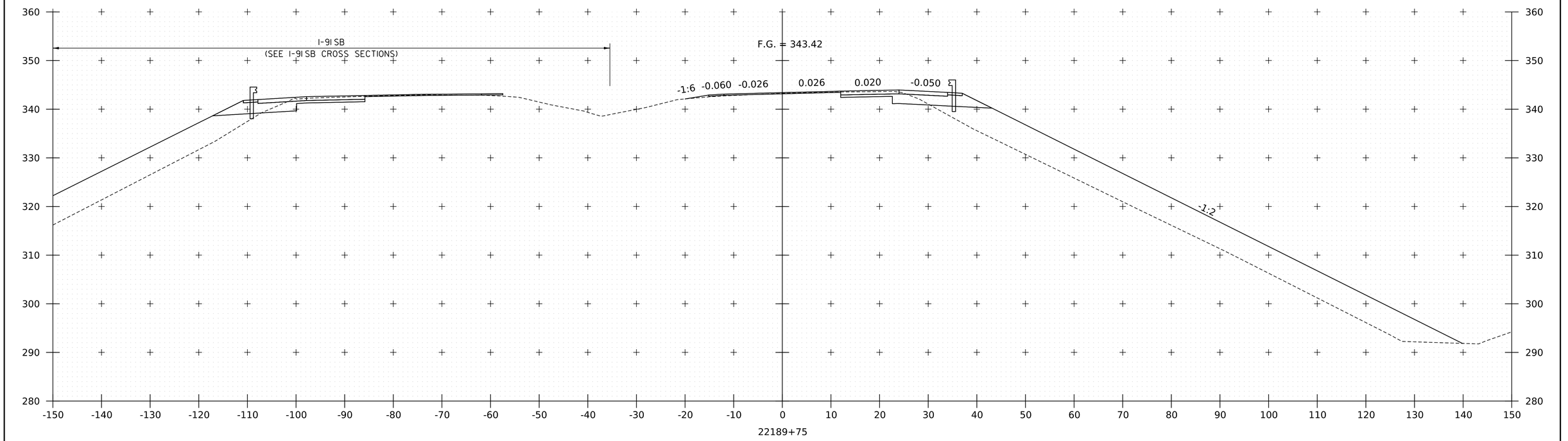




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 27	SHEET 189 OF 395

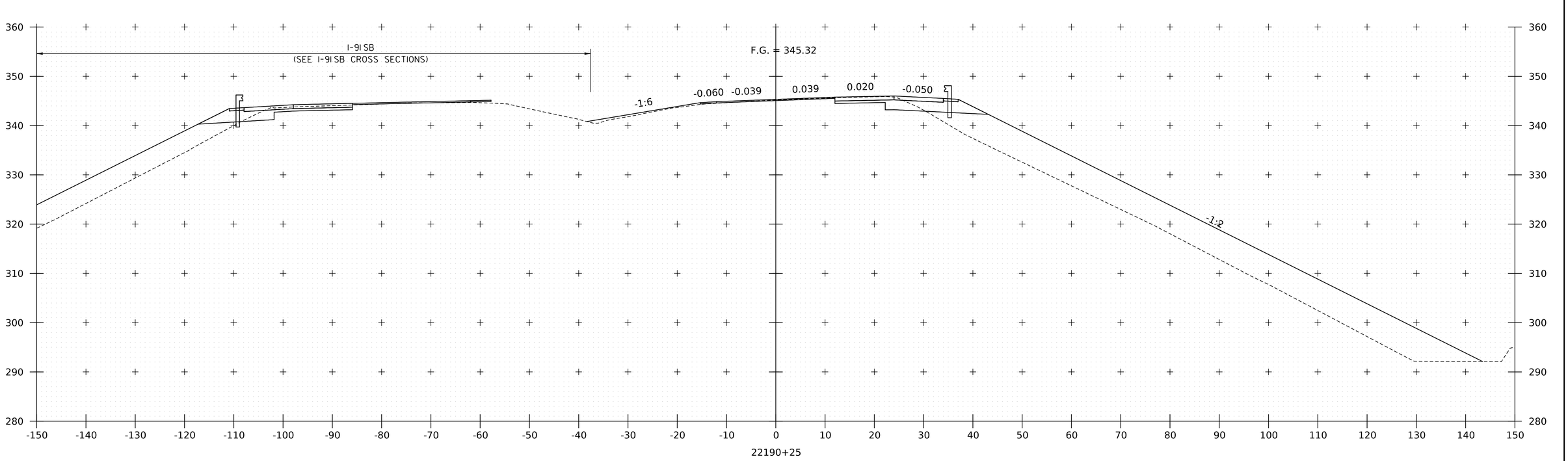
HNTB





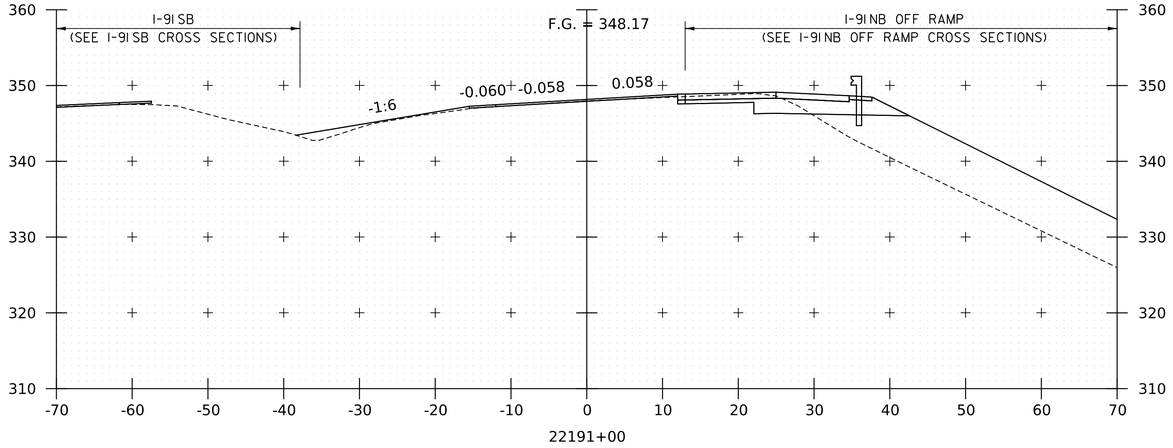
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 28	SHEET 190 OF 395

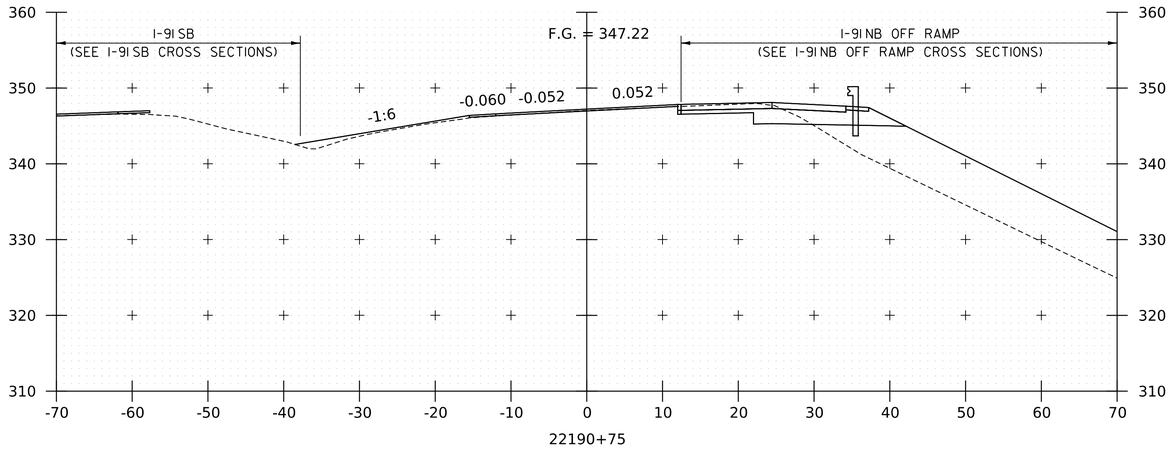
HNTB

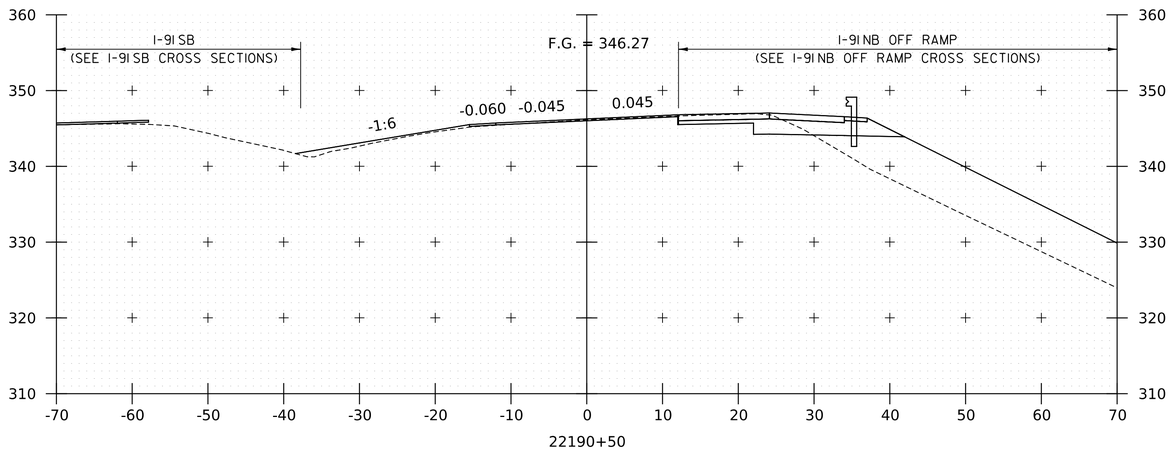


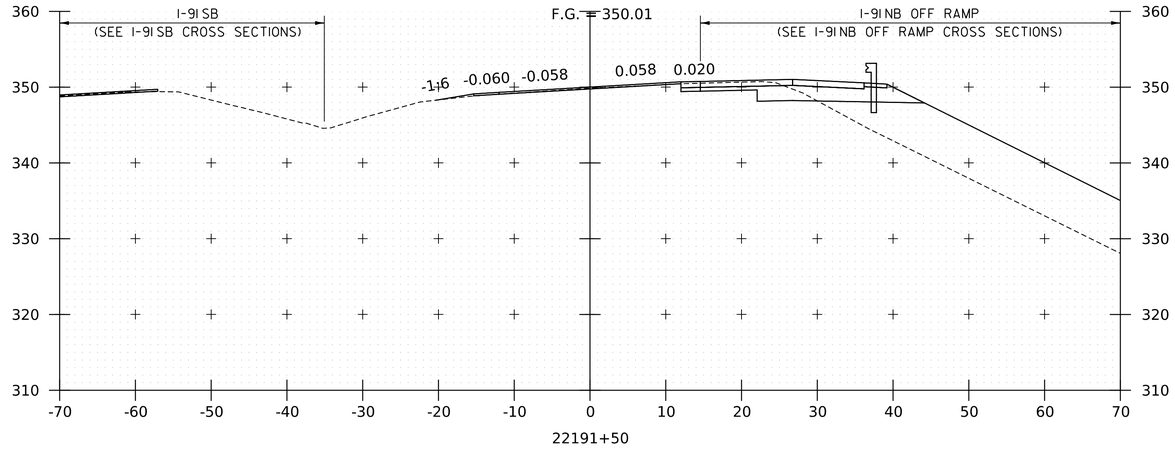
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 29	SHEET 191 OF 395

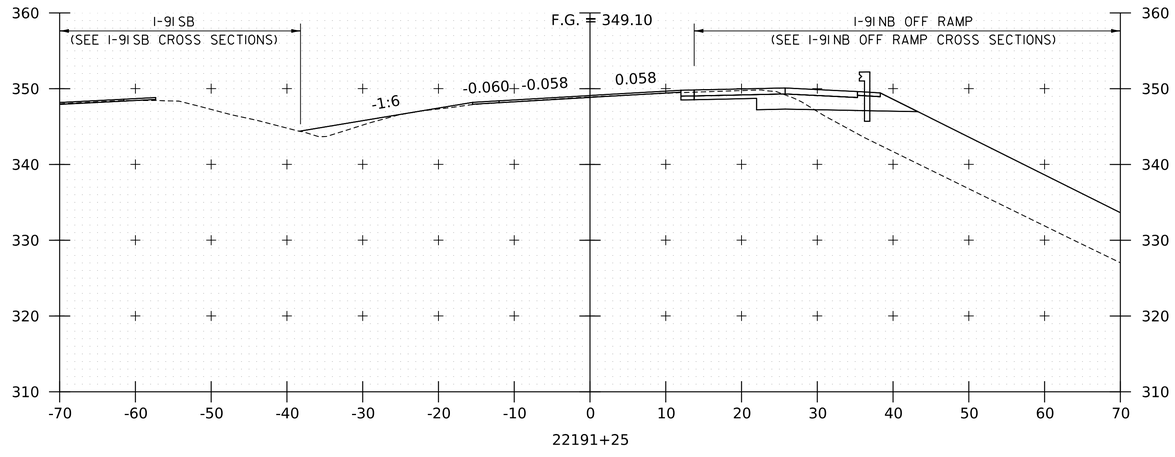
HNTB







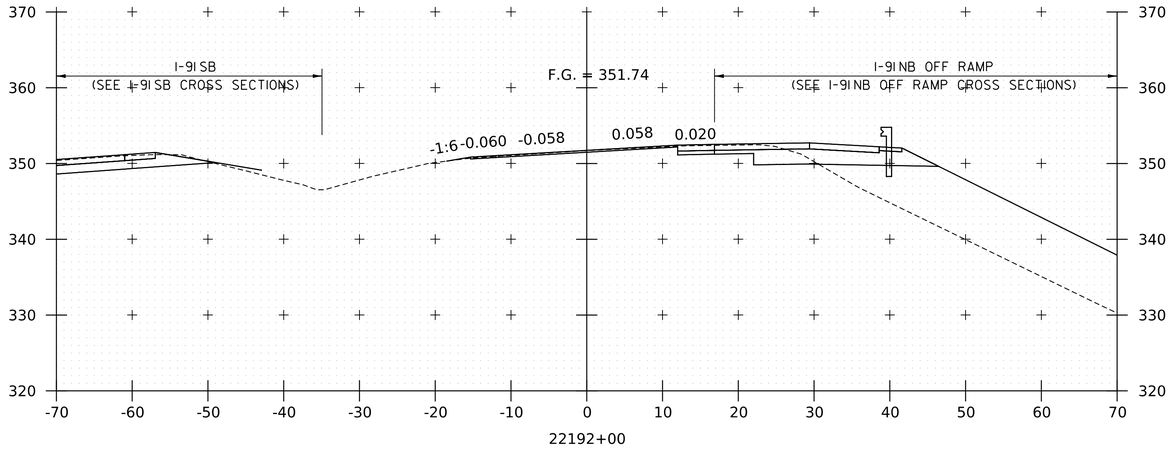


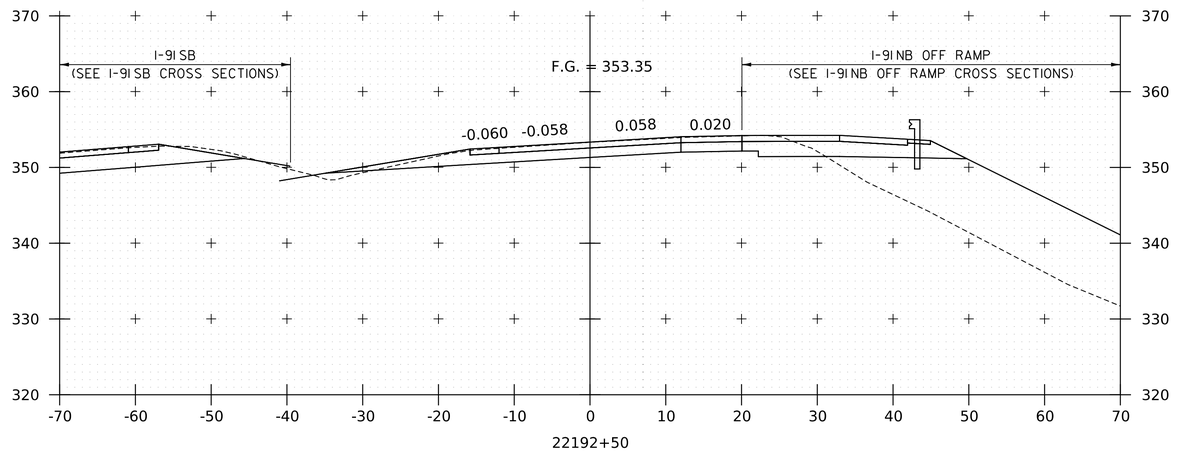


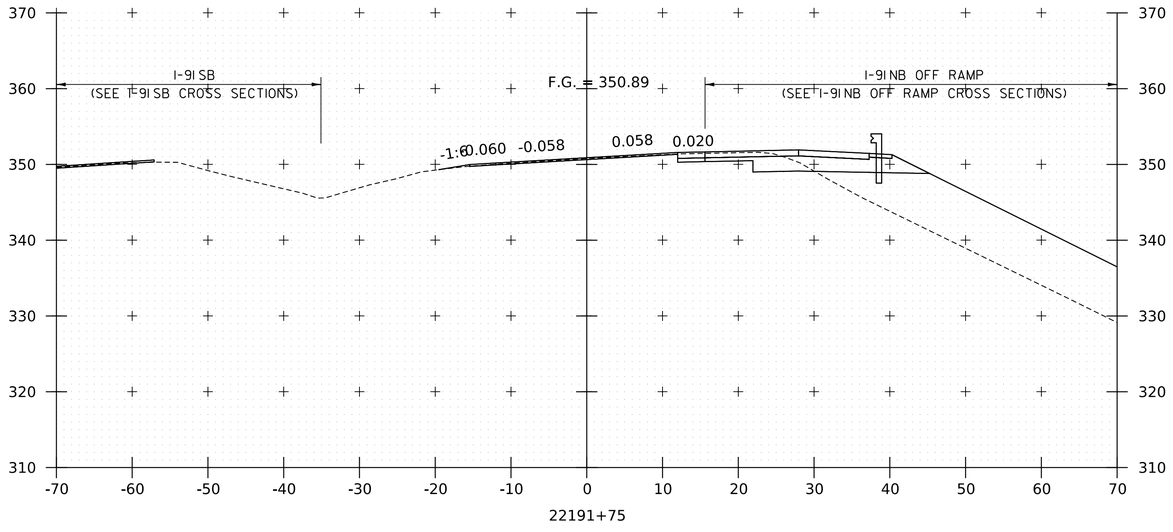
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

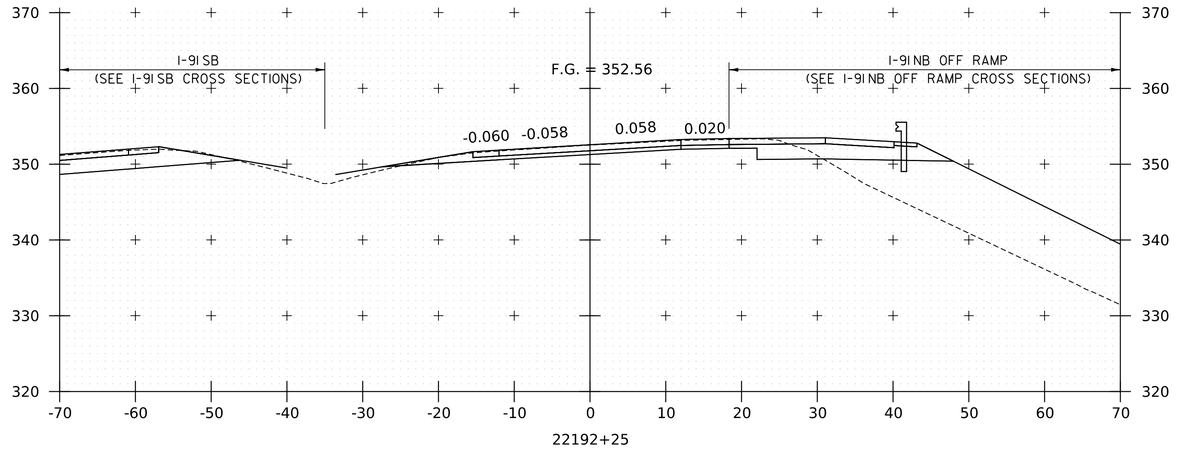
FILE NAME: z12a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 30

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 192 OF 395



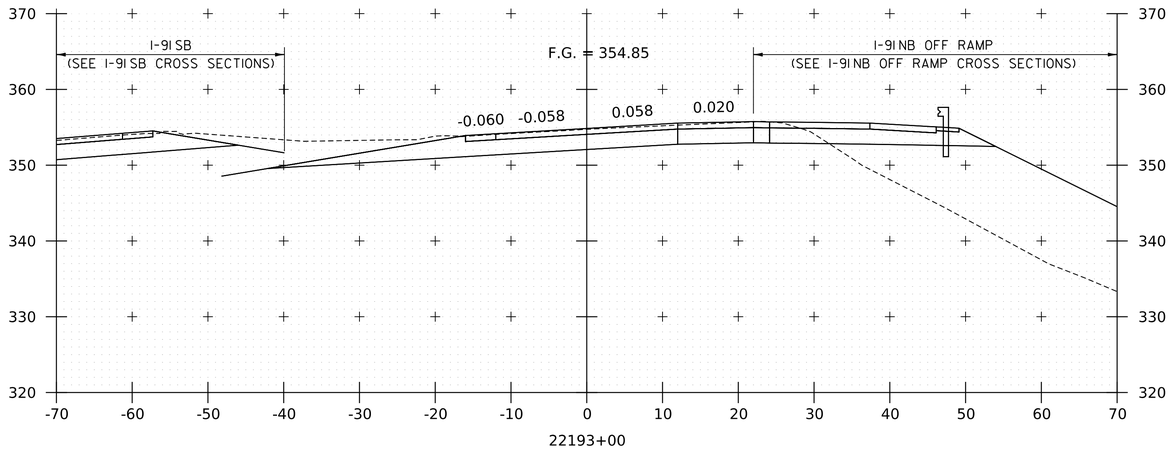


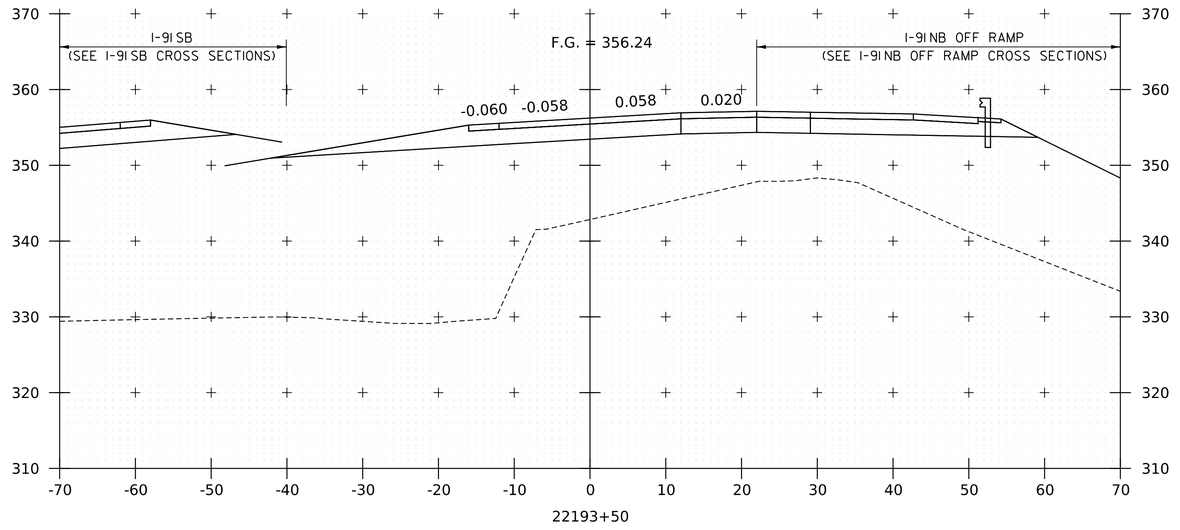


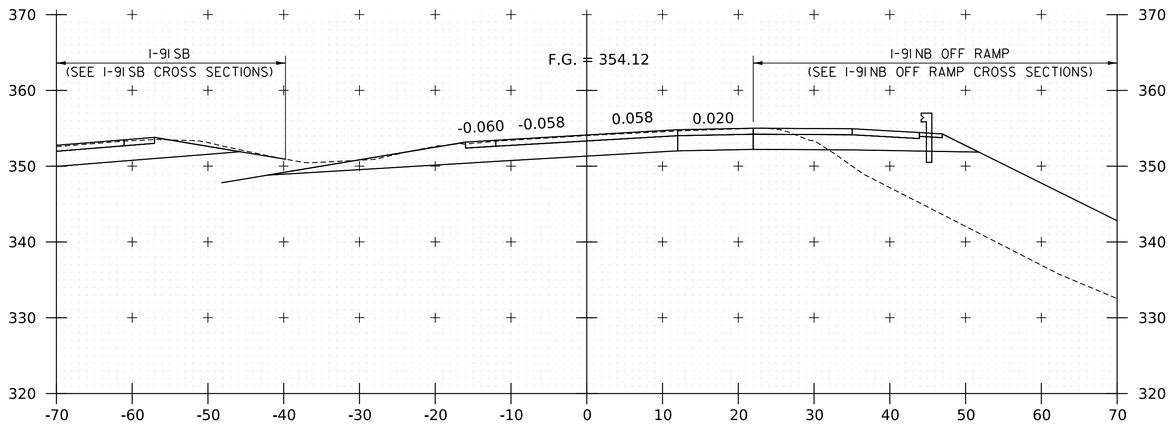


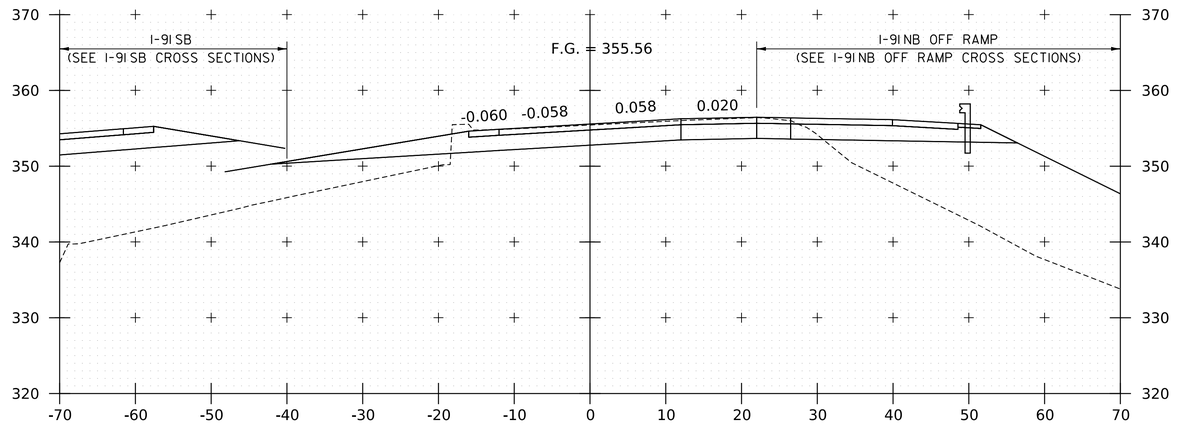
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 31	SHEET 193 OF 395

HNTB







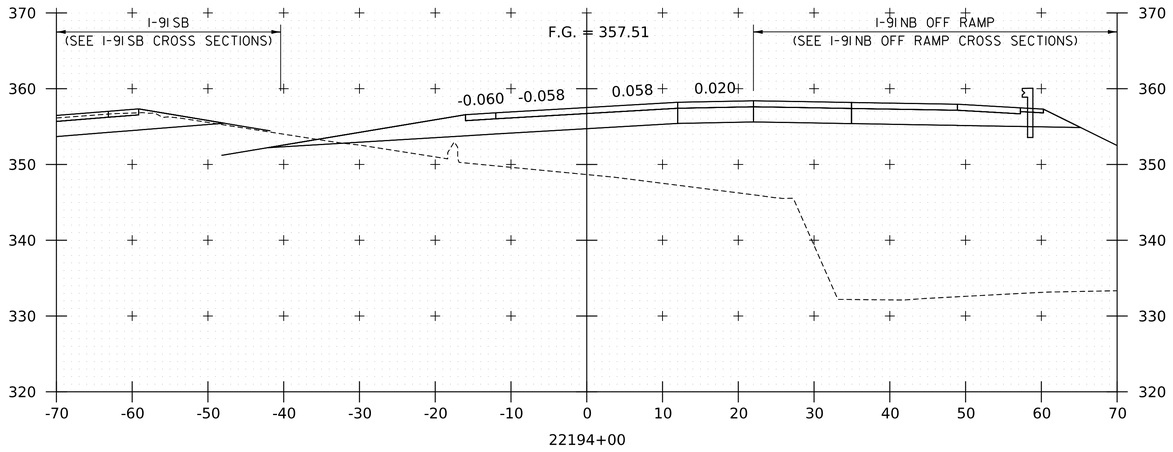


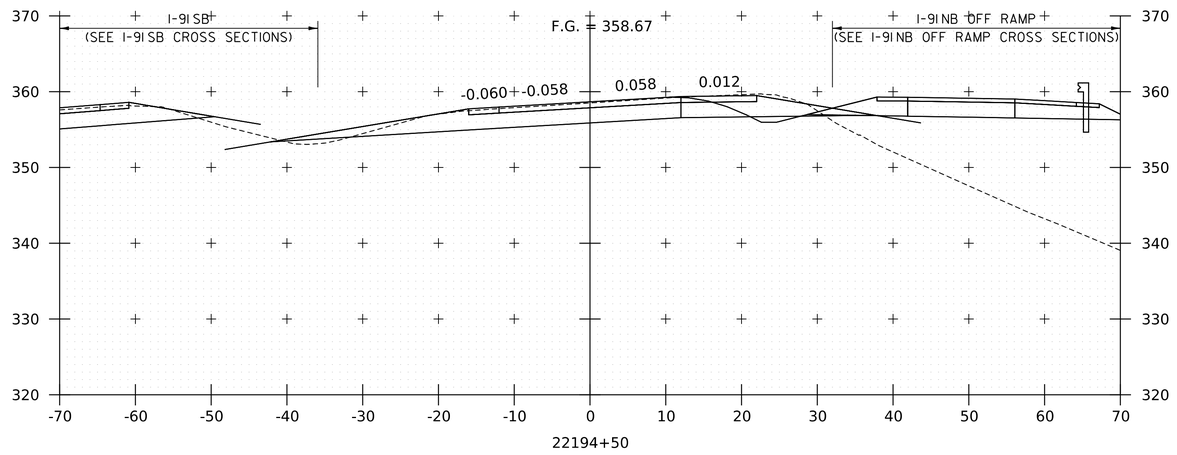
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

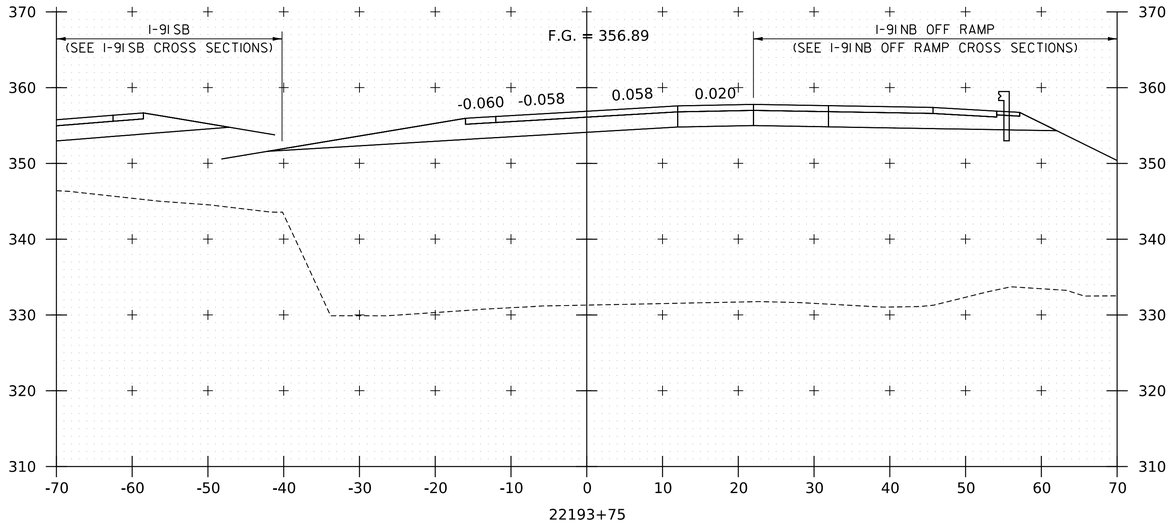
FILE NAME: zl2a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 32

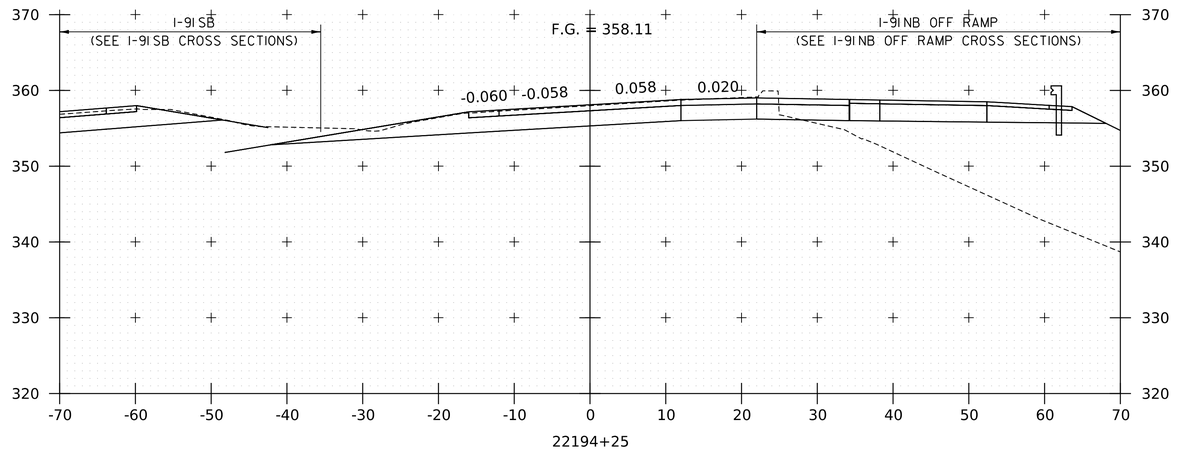
PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 194 OF 395

HNTB







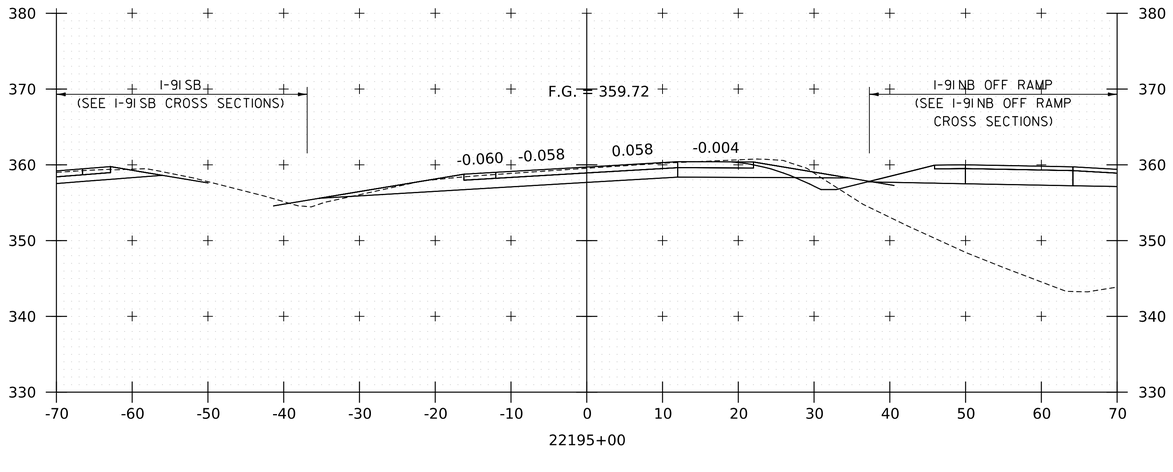


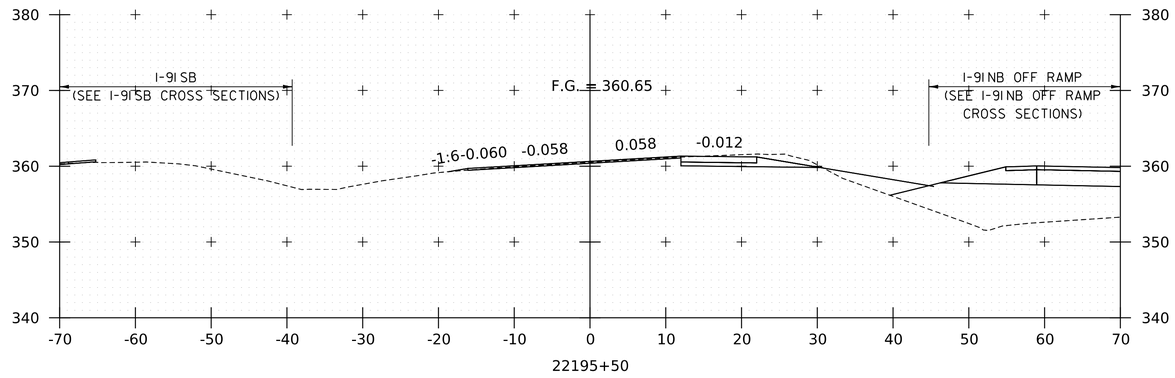
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

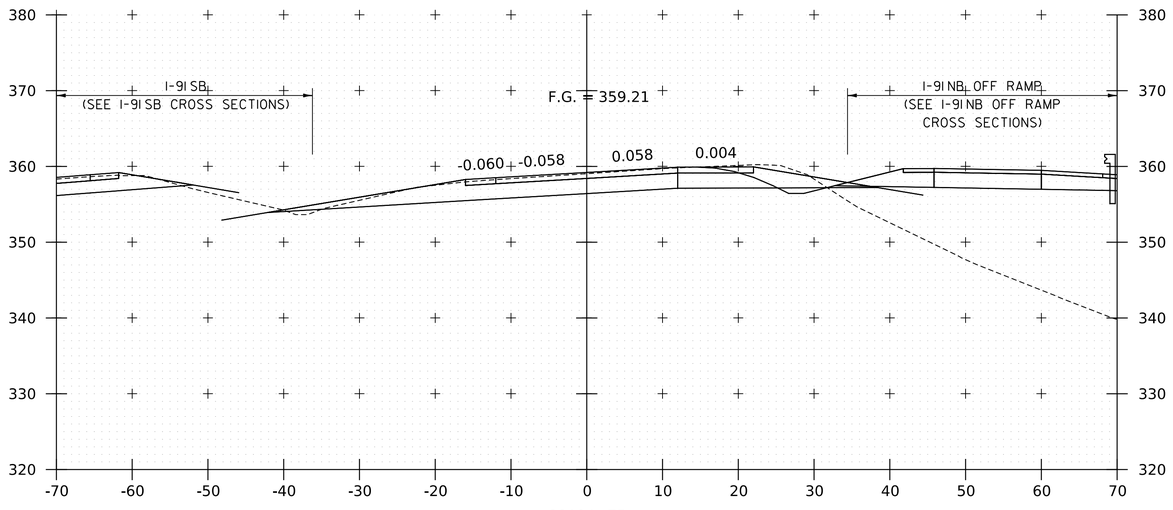
FILE NAME: z12a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 33

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 195 OF 395

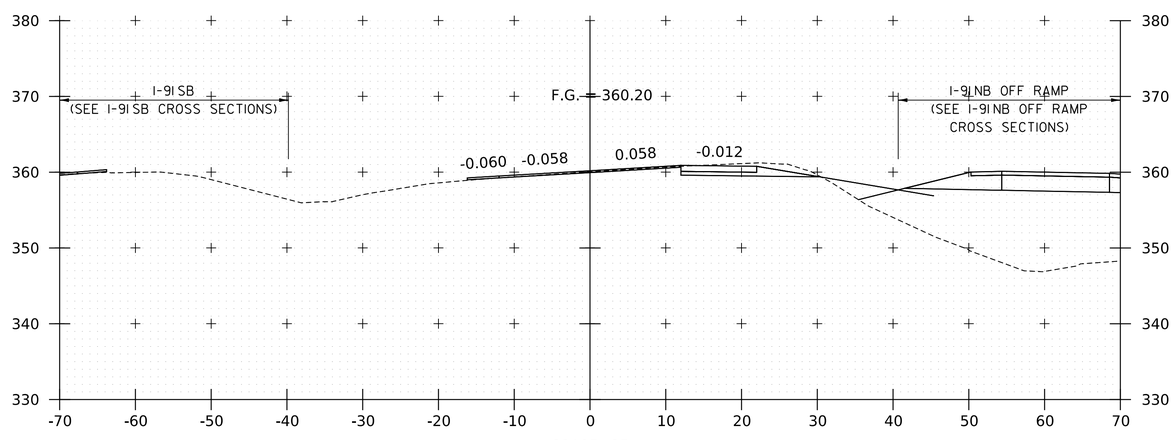
HNTB







STOP NORTHBOUND PROJECT



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 34	SHEET 196 OF 395

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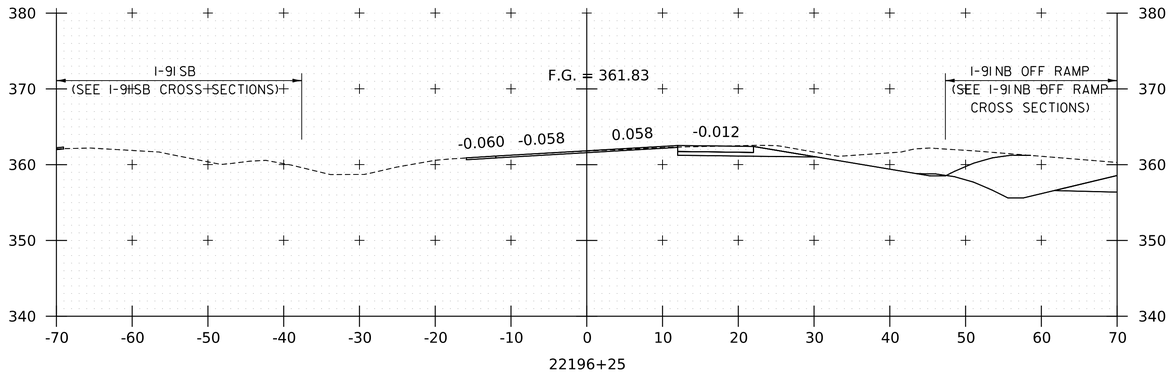
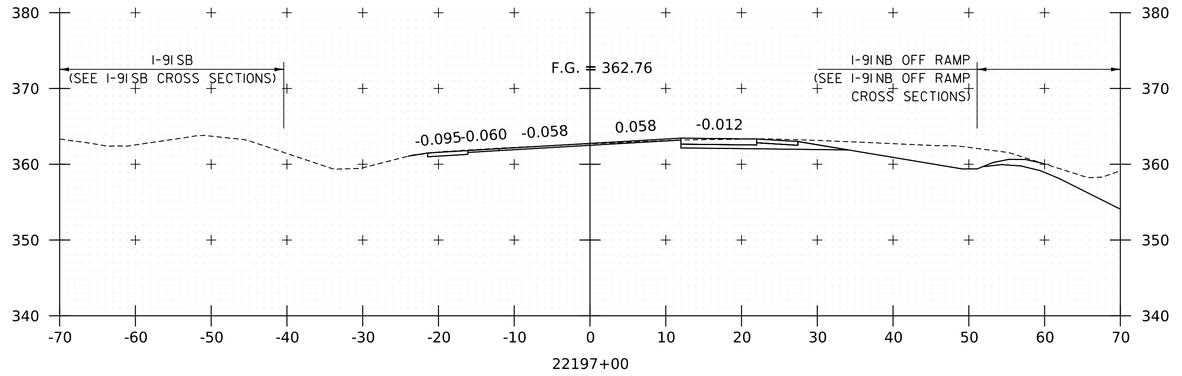
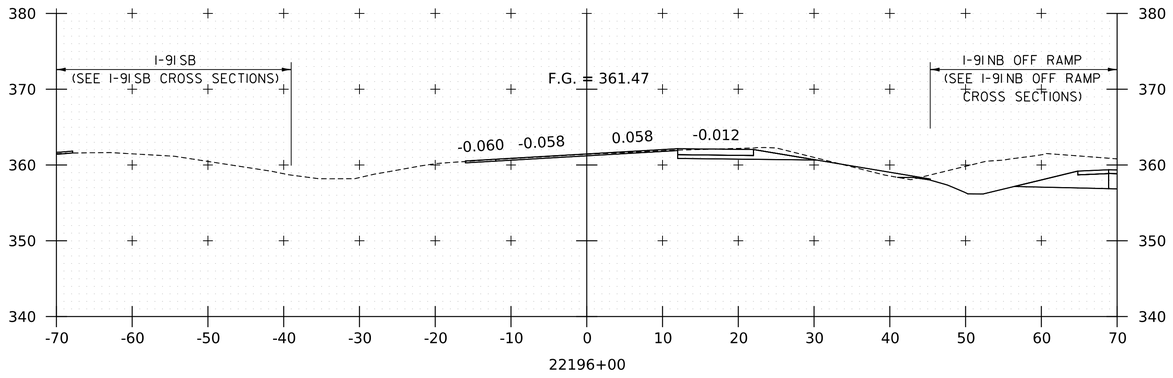
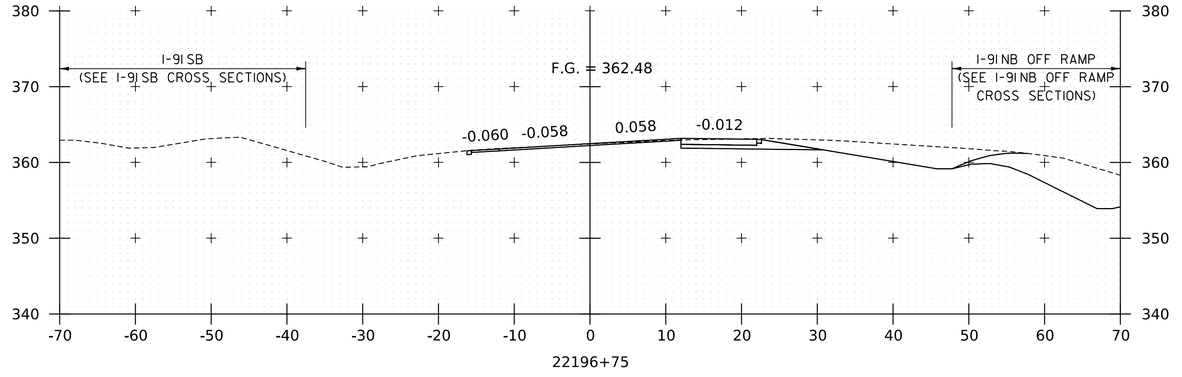
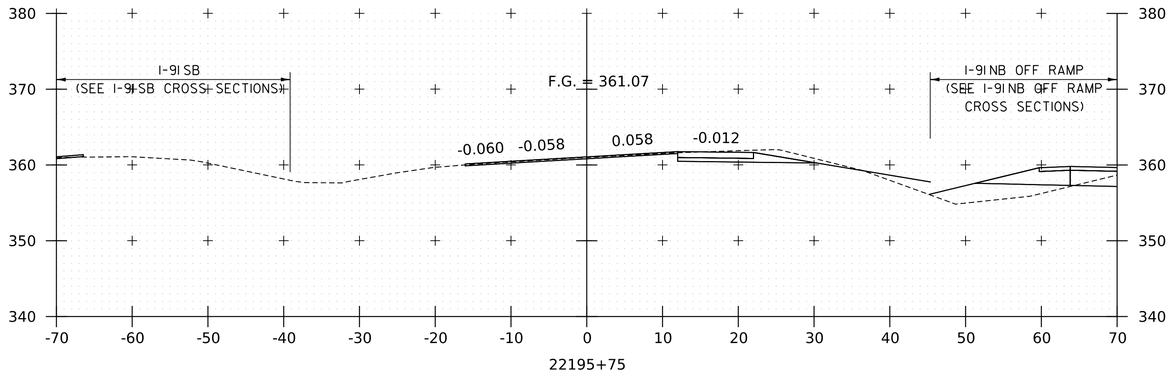
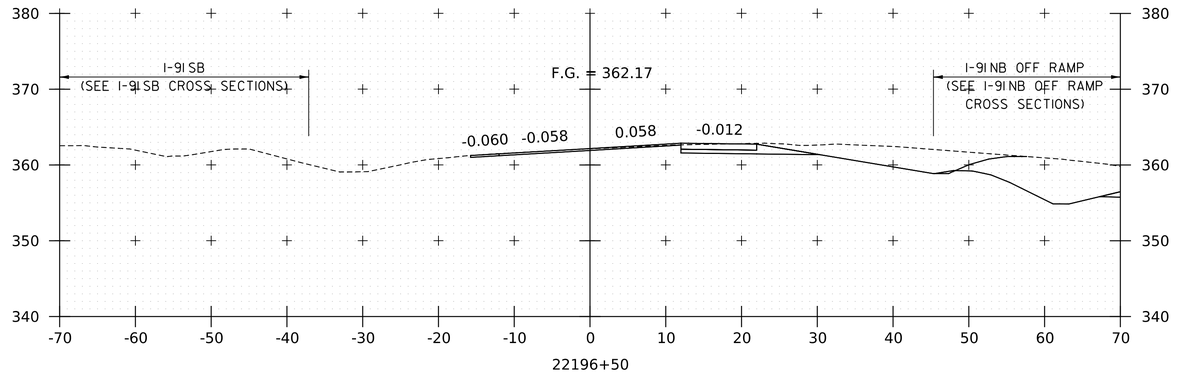






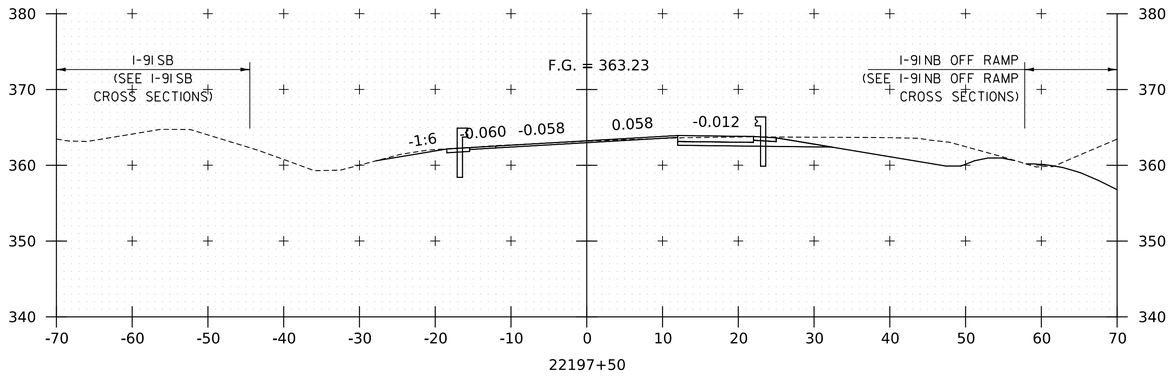






PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 35	SHEET 197 OF 395

HNTB



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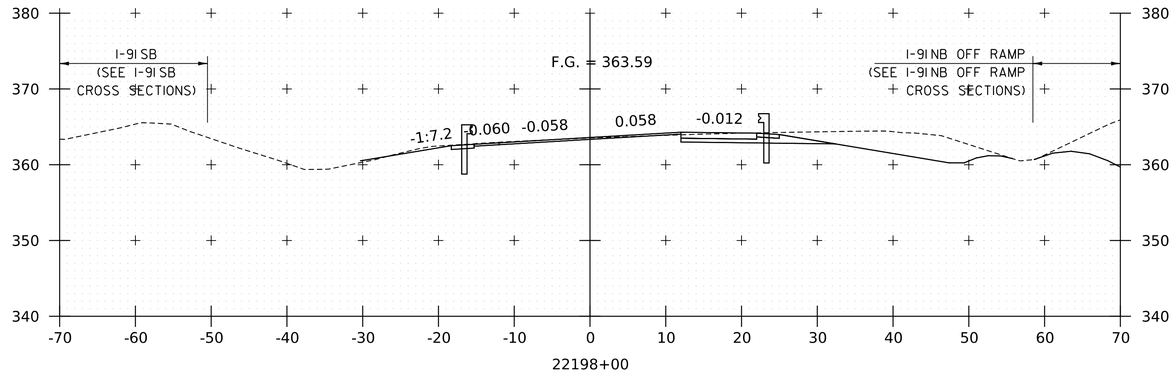

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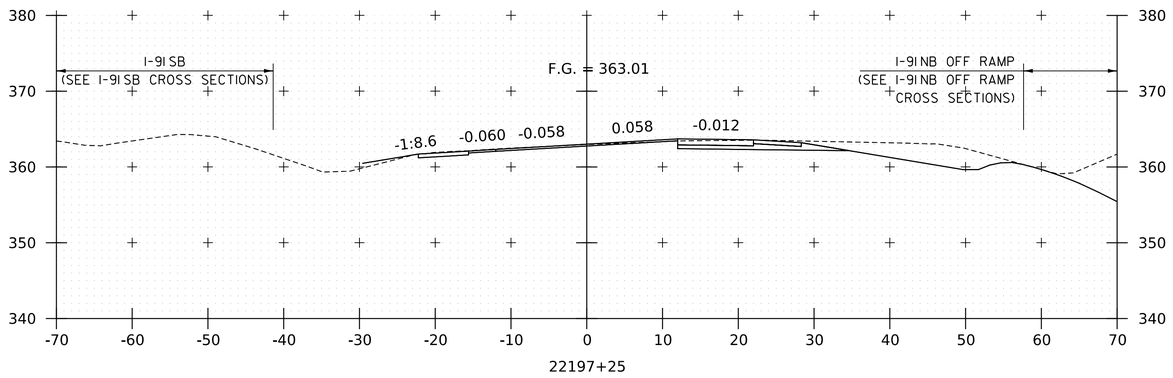

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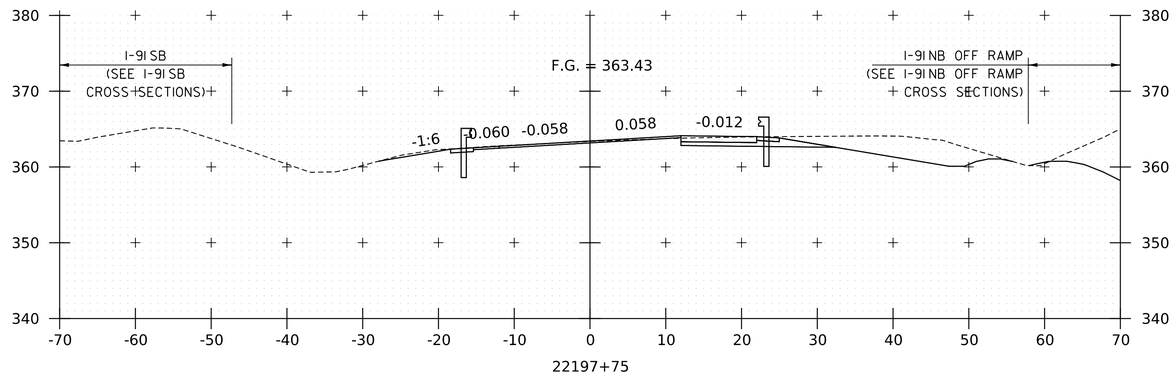
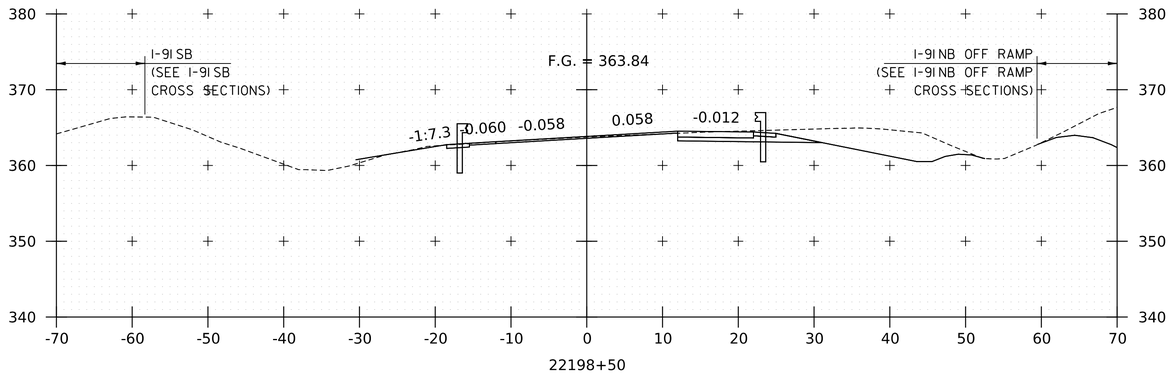
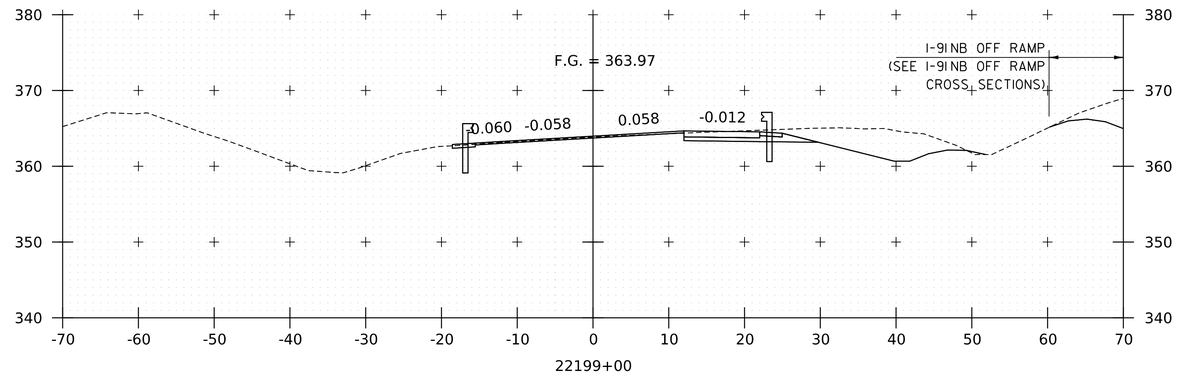


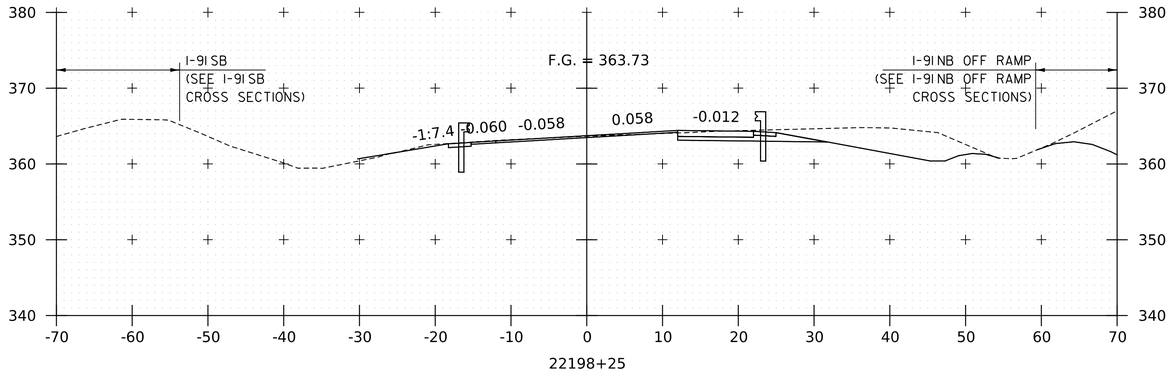
22197+75

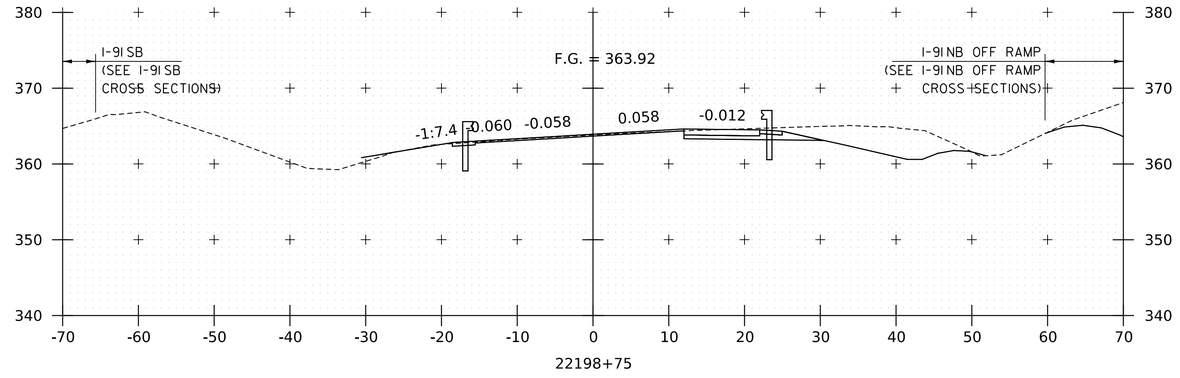
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 36	SHEET 198 OF 395







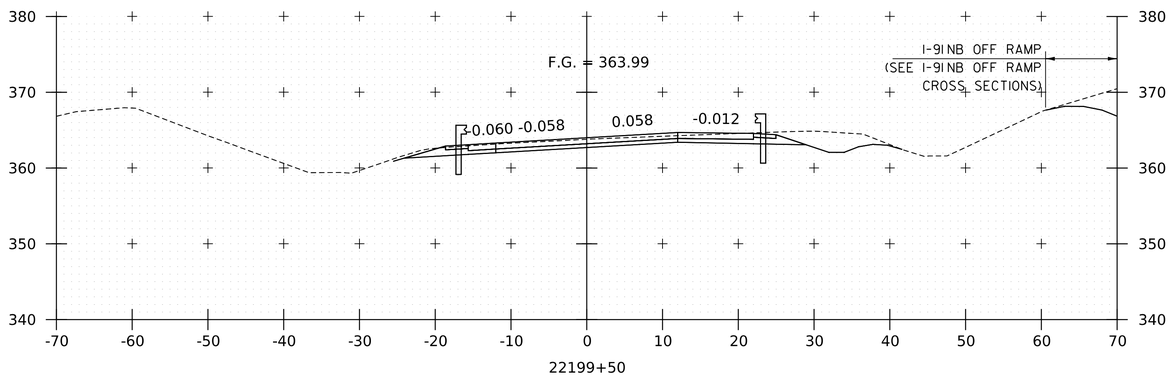


PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

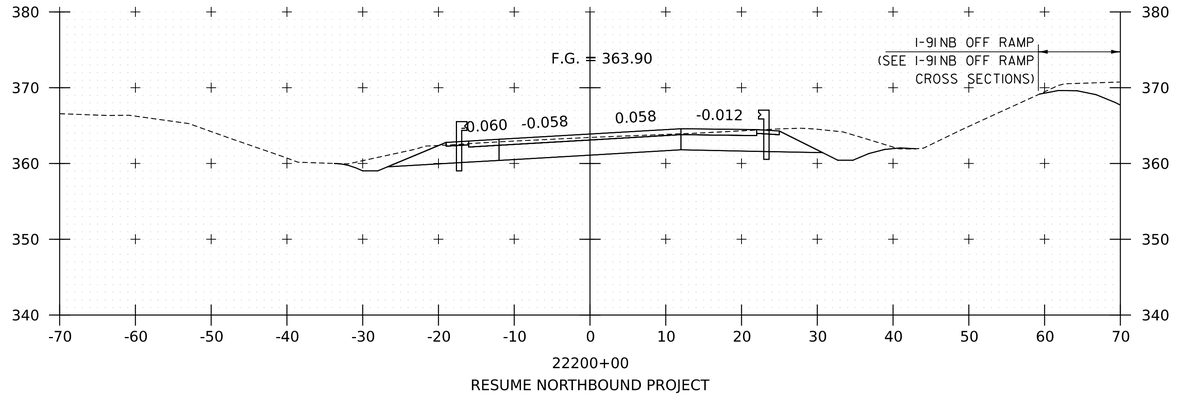
FILE NAME: zl2a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 37

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 199 OF 395

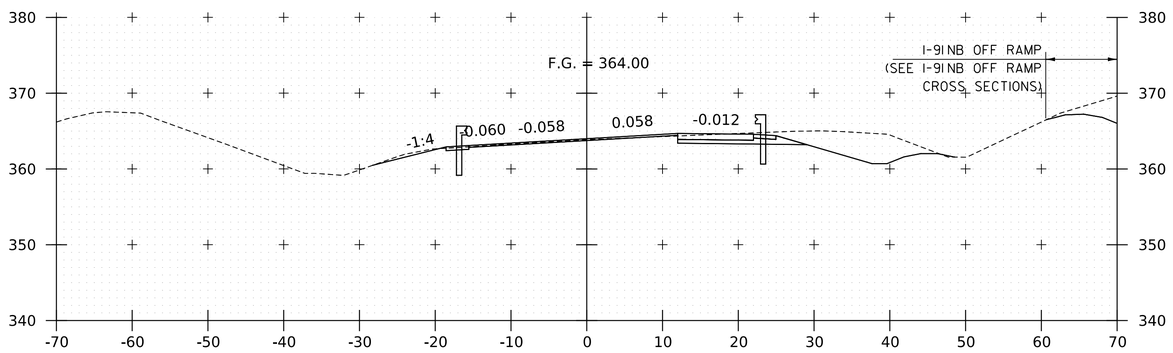
HNTB



22199+50



22200+00
RESUME NORTHBOUND PROJECT



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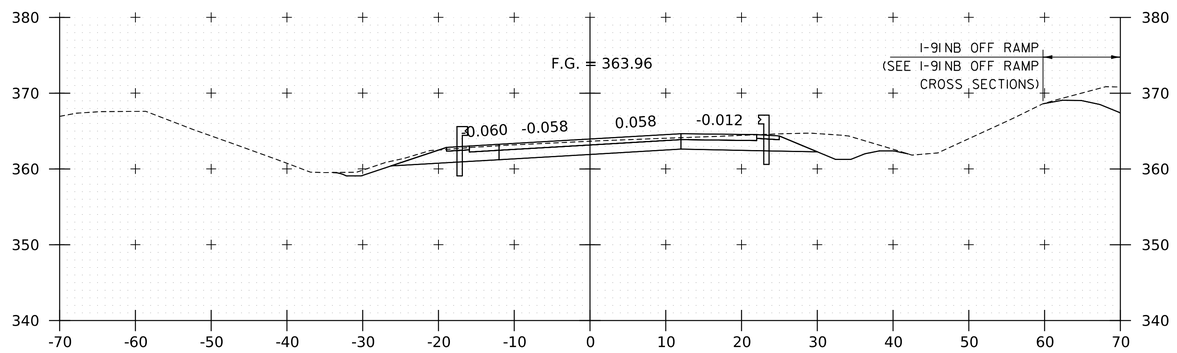
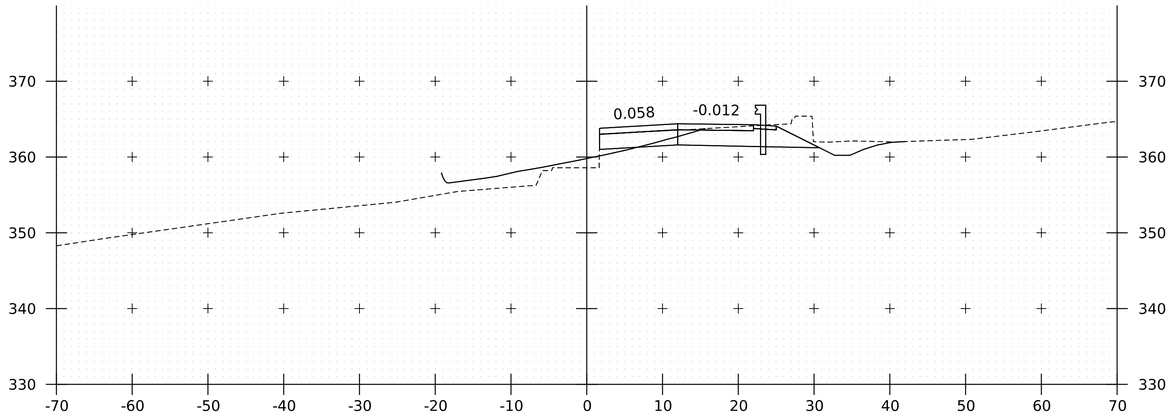


22199+75

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 38

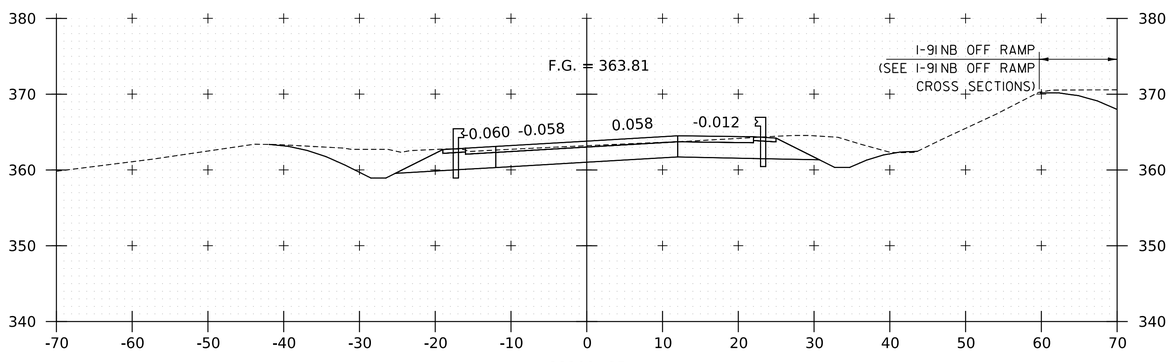
PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 200 OF 395



22200+50

BEGIN BRIDGE 28N

STA. 22200+59.17



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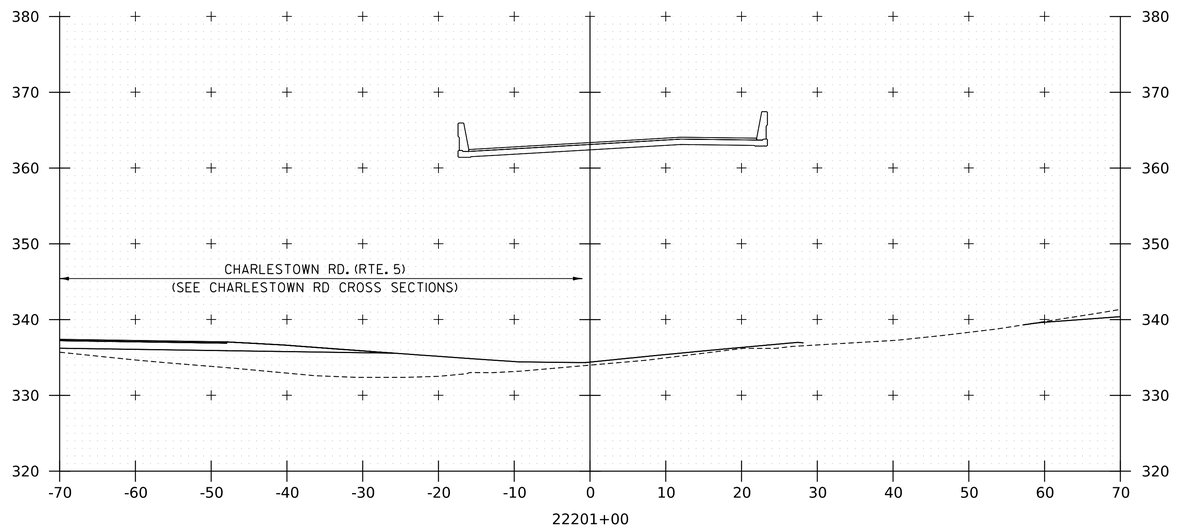
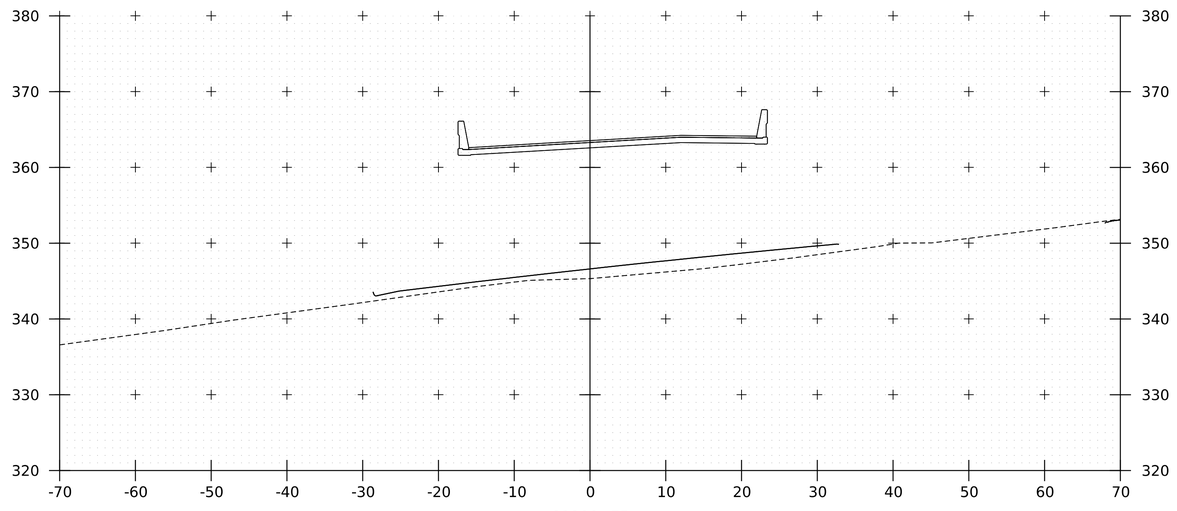


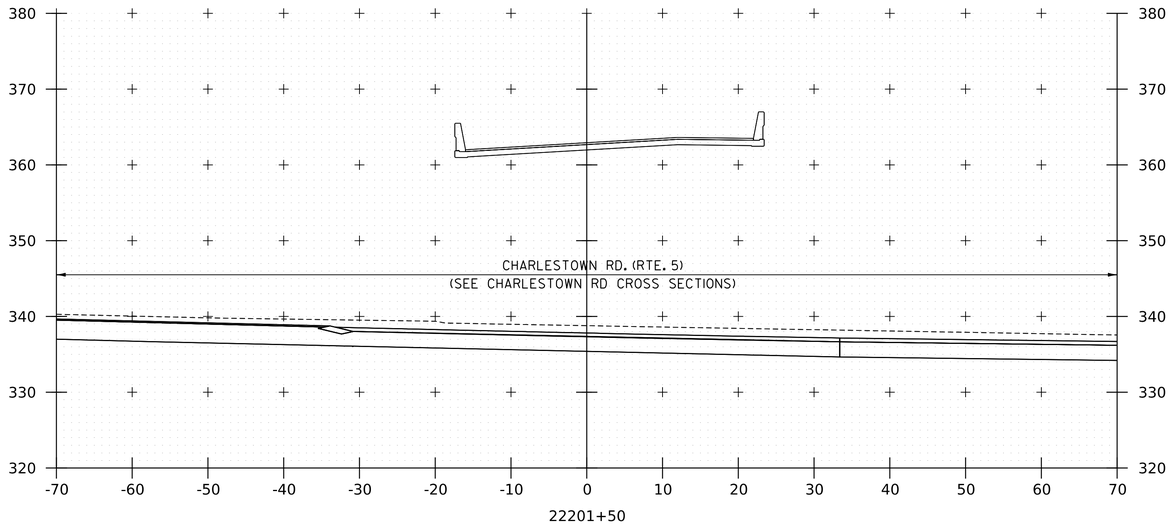
22201+00



22200+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 39	SHEET 201 OF 395

HNTB



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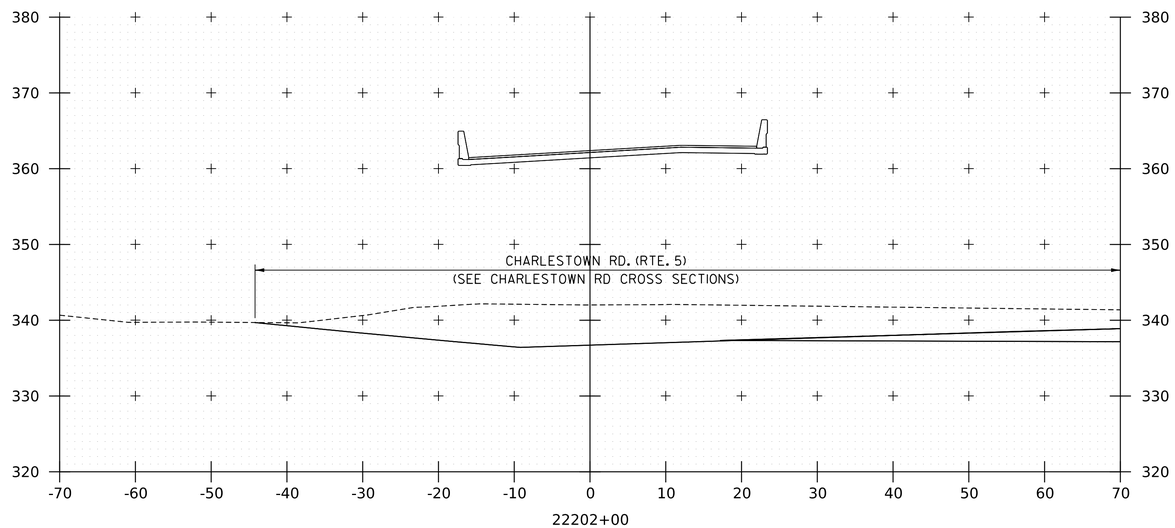
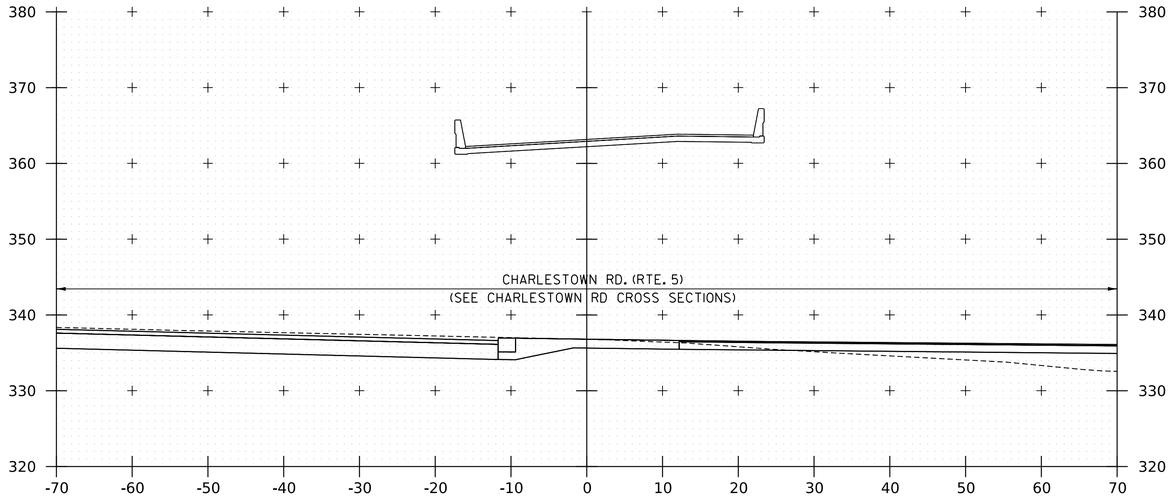
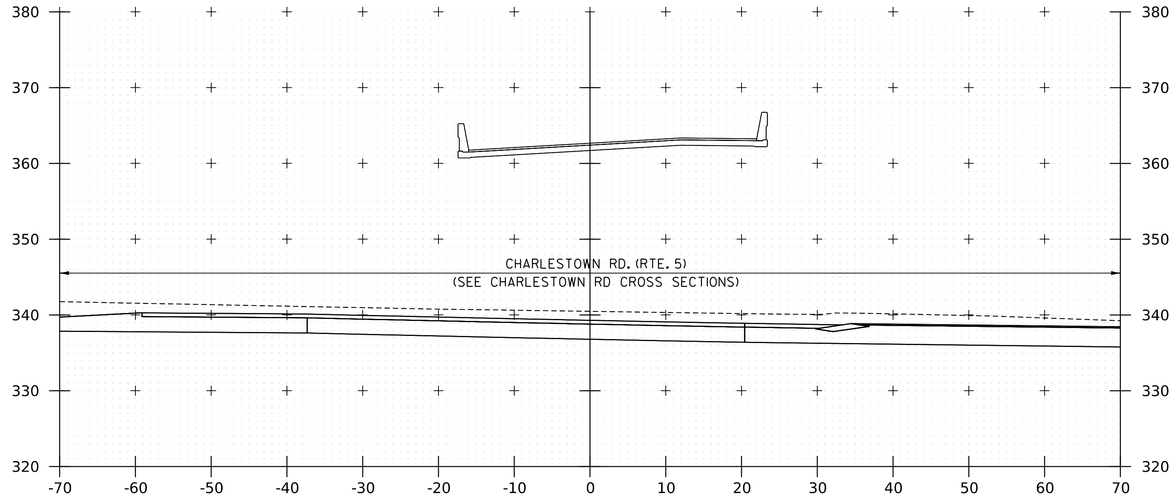


22202+00



22201+25



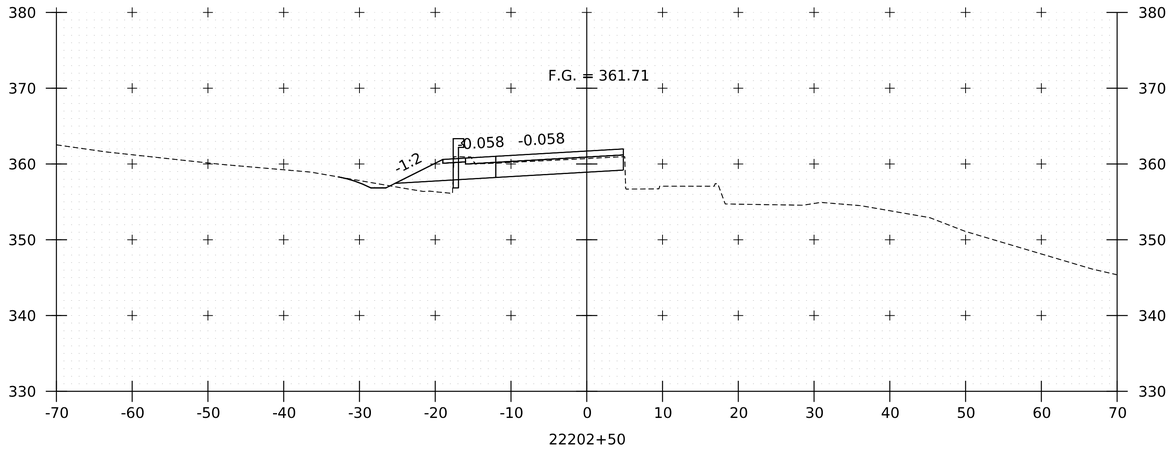
22201+75

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

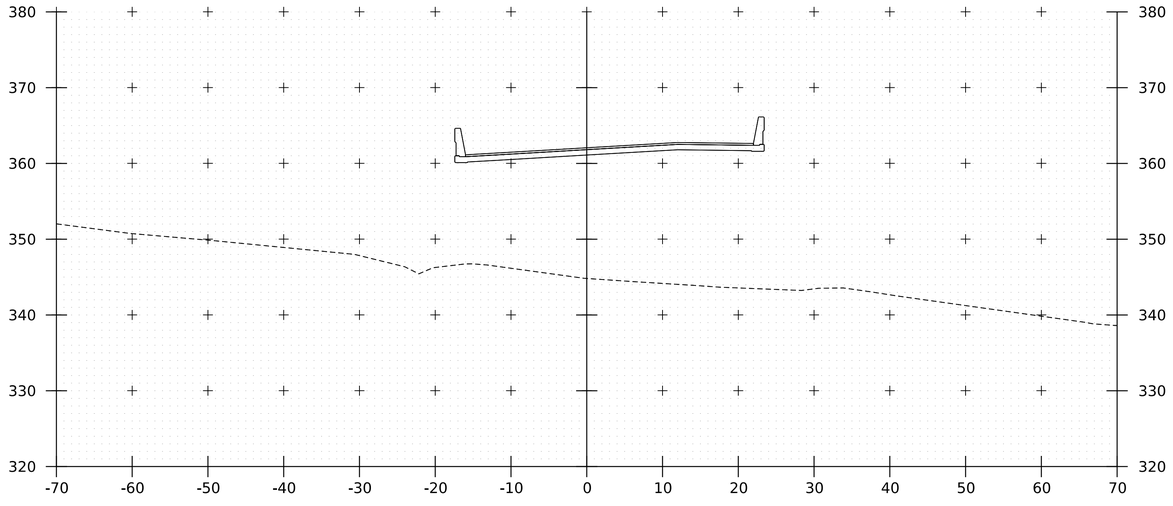
FILE NAME: zl2a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 40

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 202 OF 395

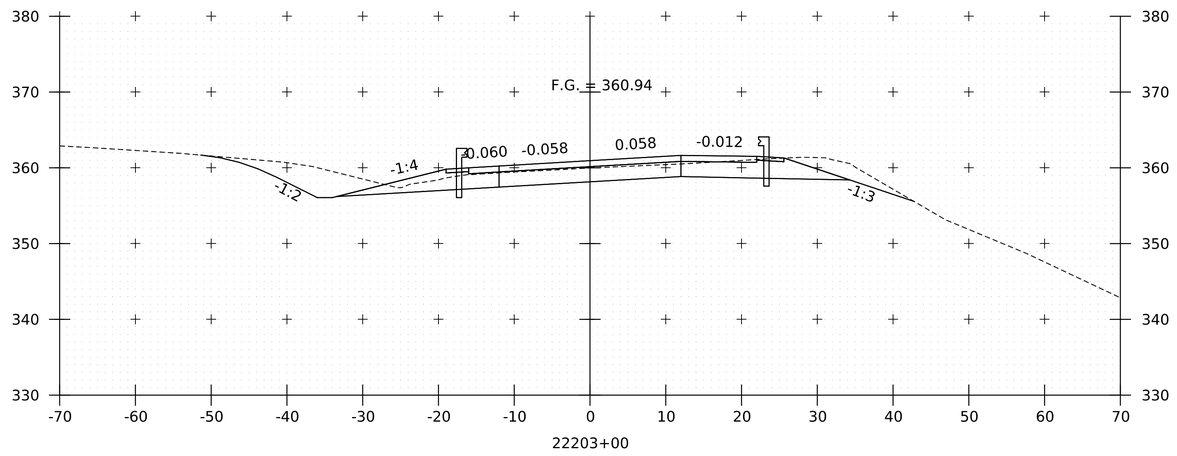
HNTB

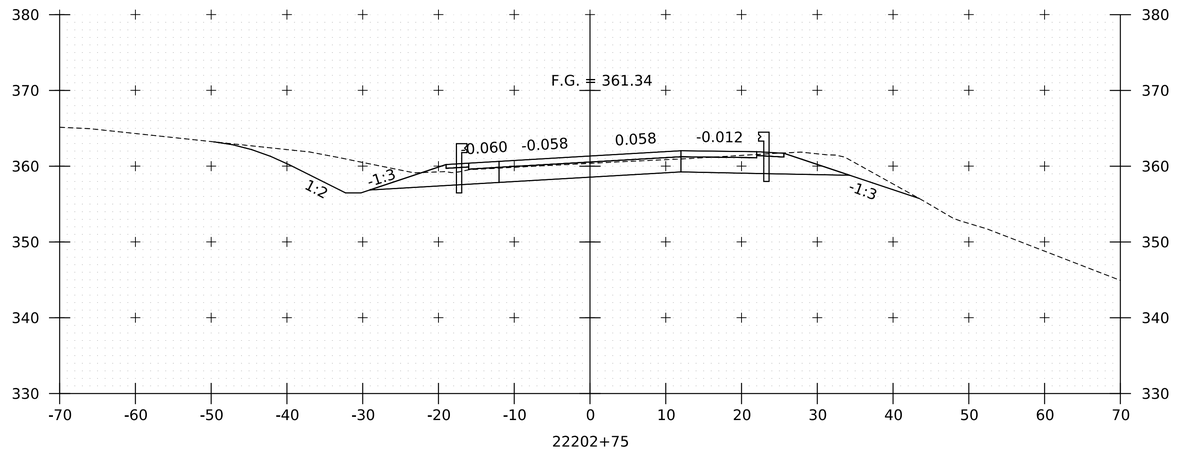


END BRIDGE 28N
STA. 22202+40.83



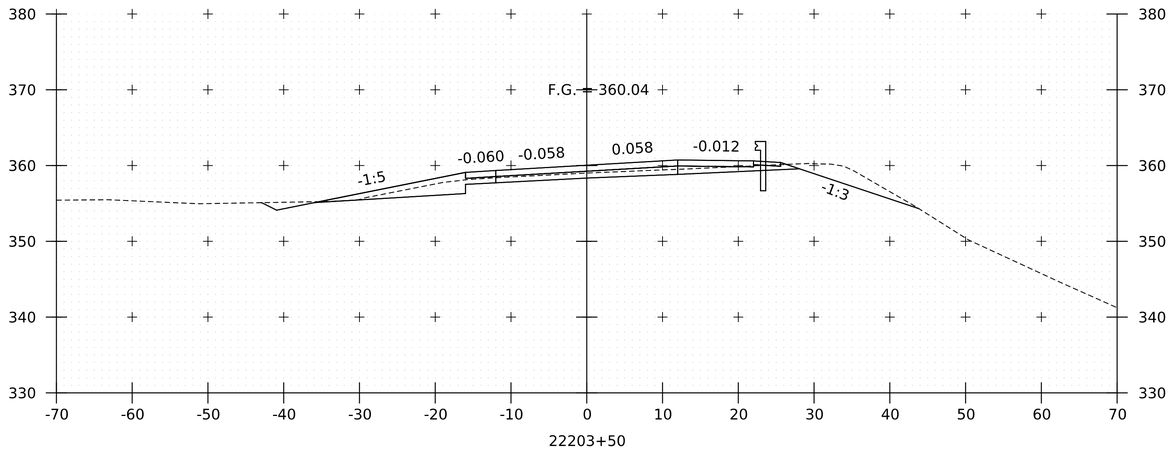
END BRIDGE 28N
STA. 22202+40.83

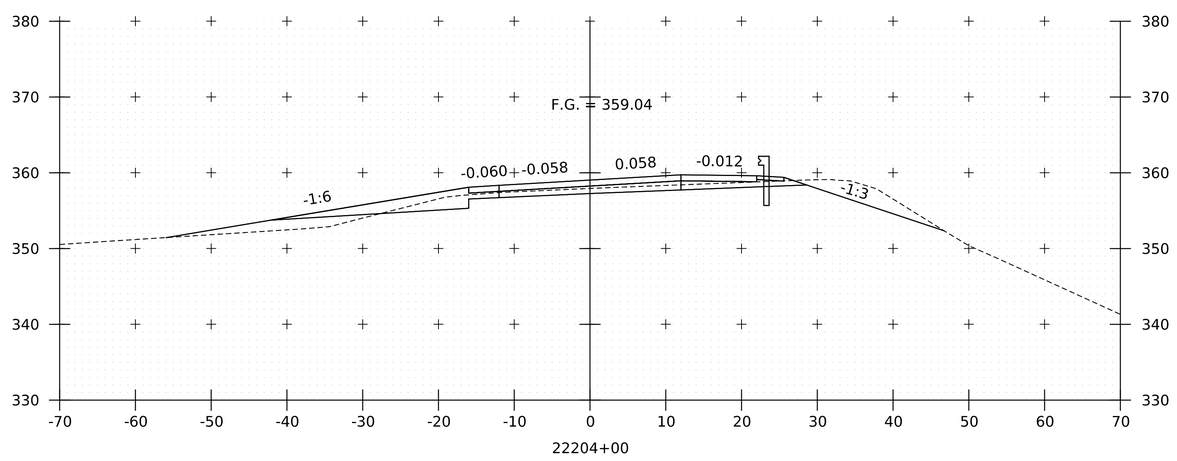


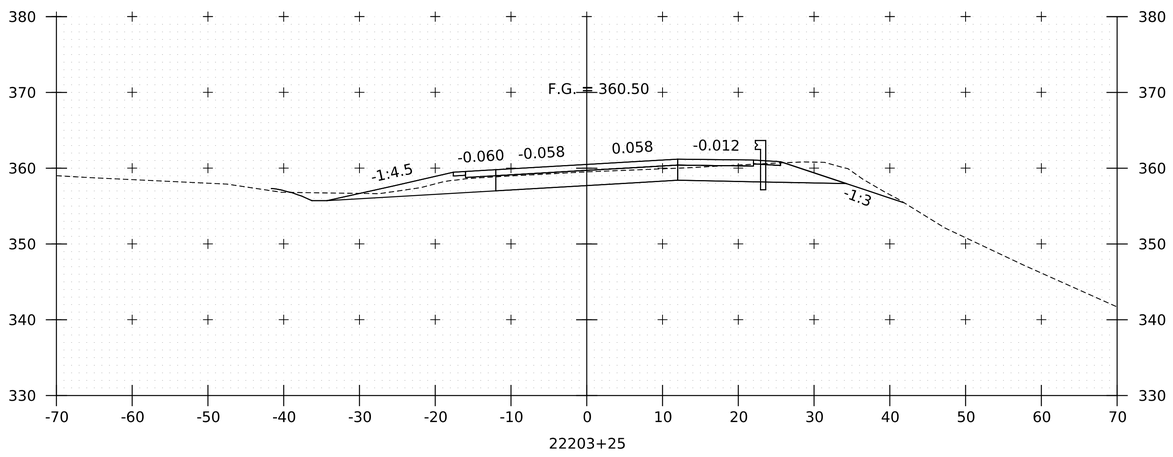


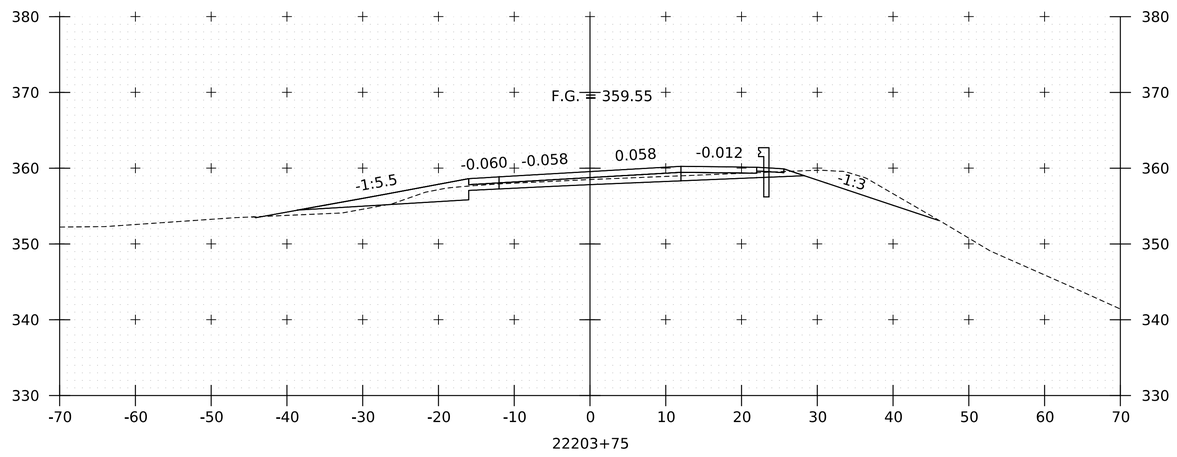
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 41	SHEET 203 OF 395

HNTB





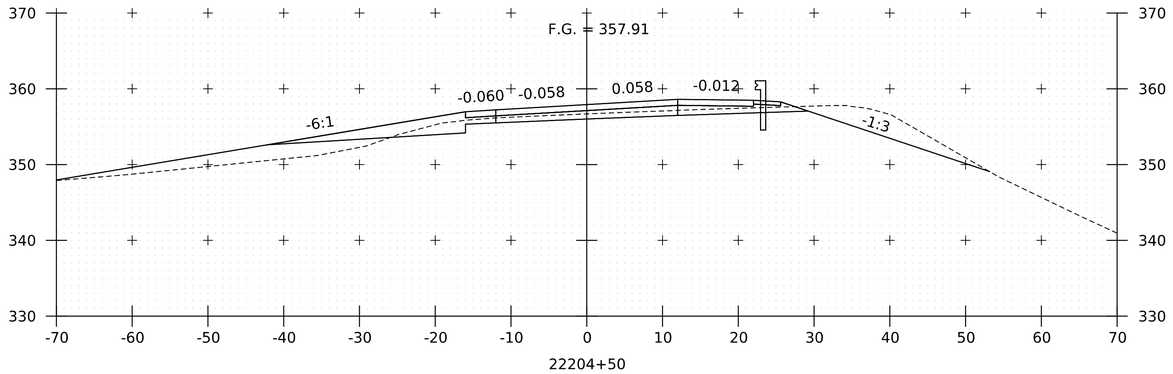


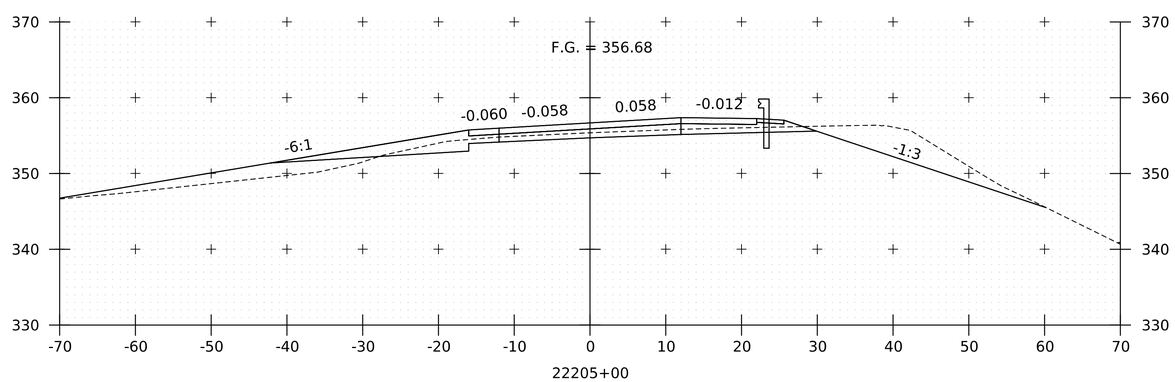


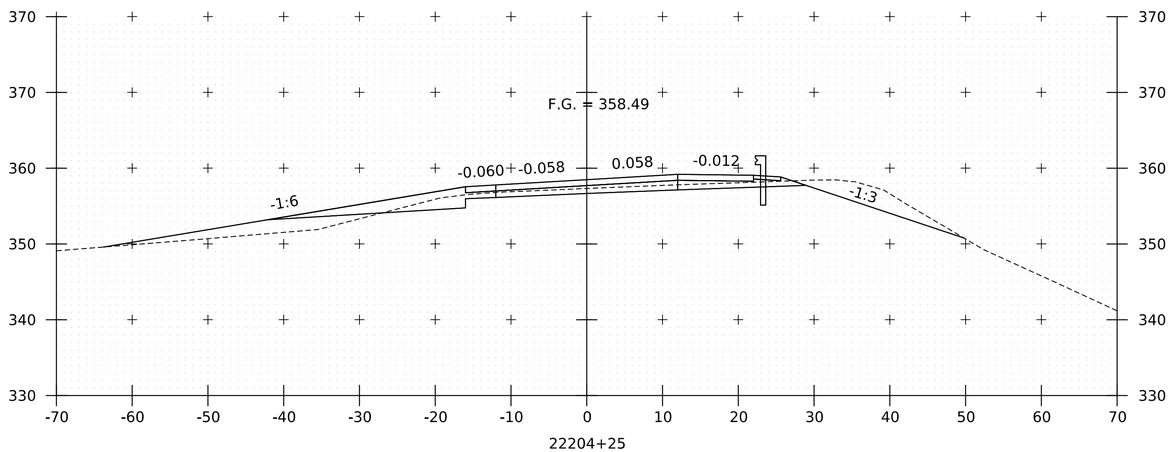
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

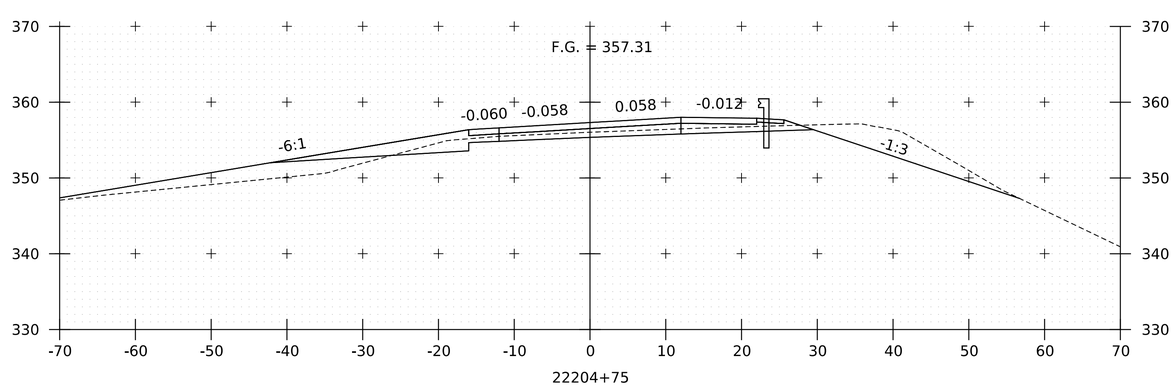
HNTB

FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 42	SHEET 204 OF 395







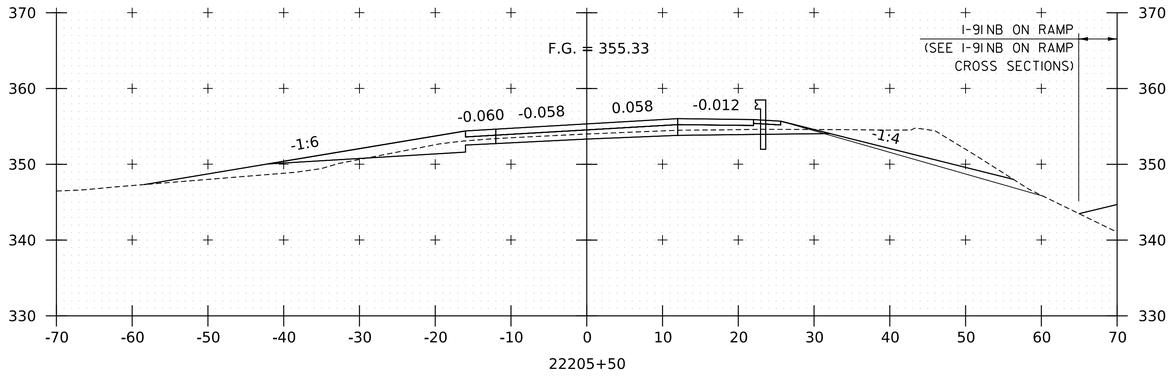


HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 43

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 205 OF 395



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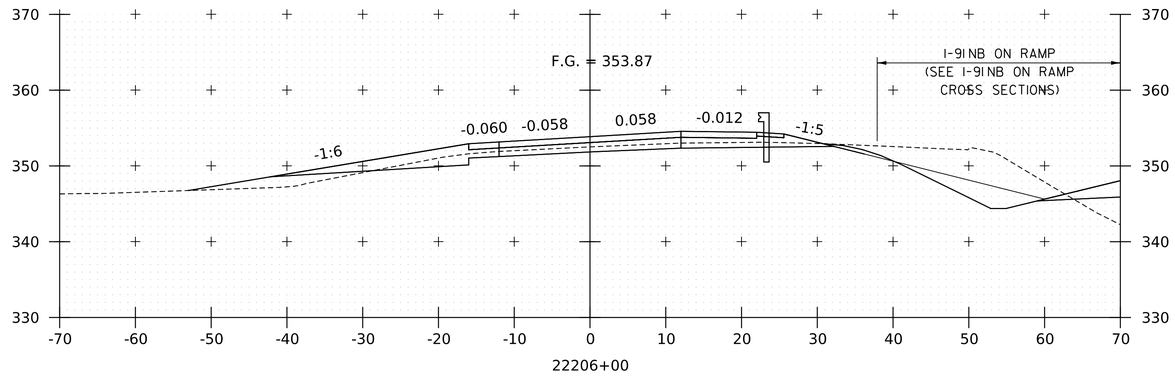
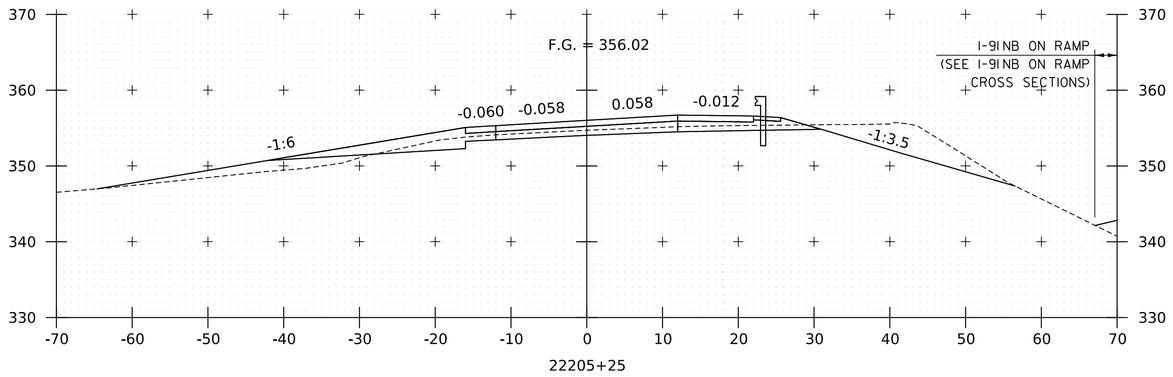
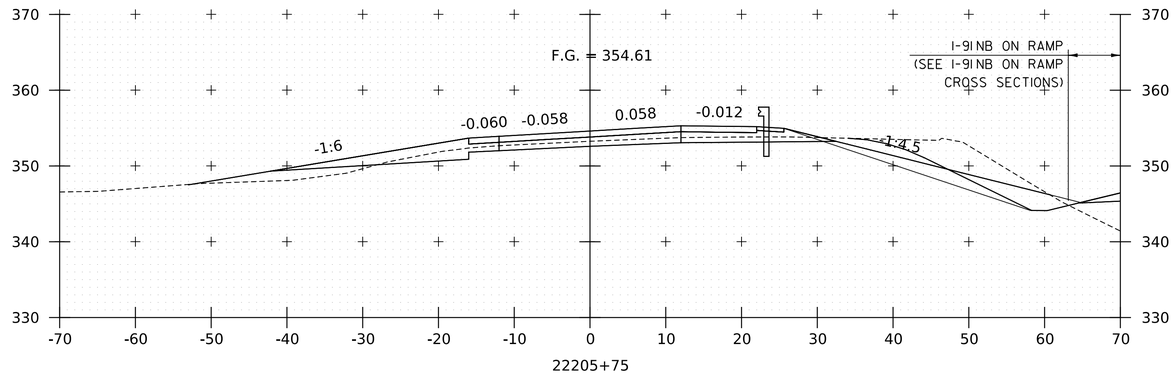


22206+00



22205+25



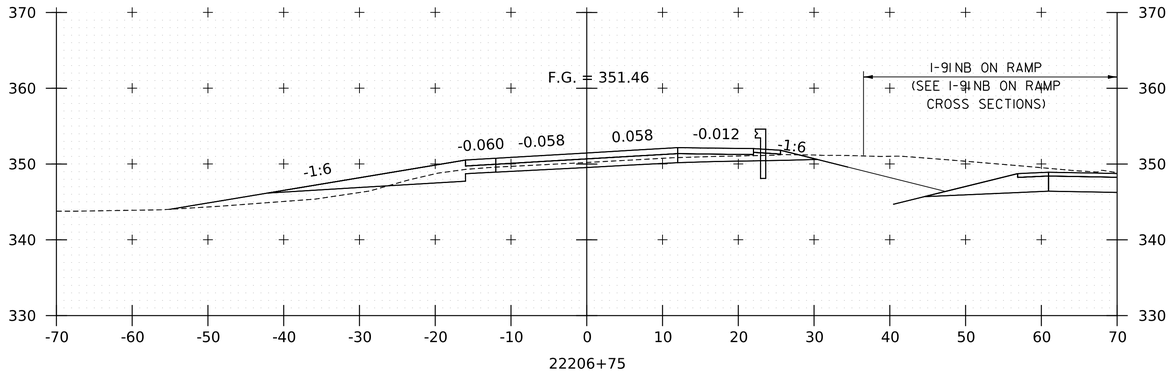
22205+75

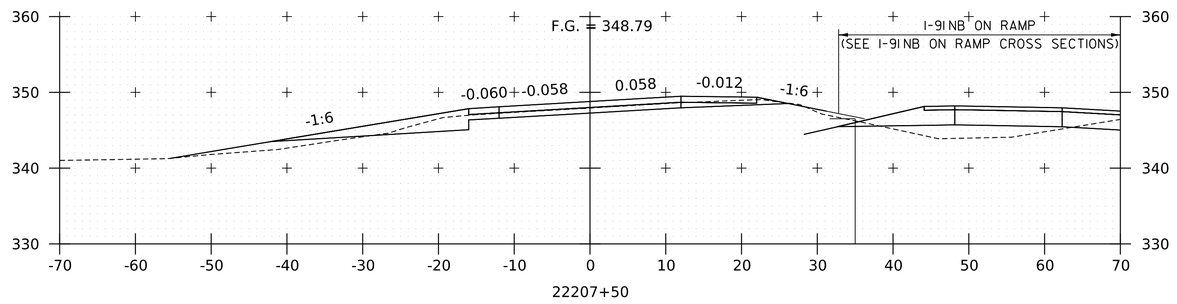
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

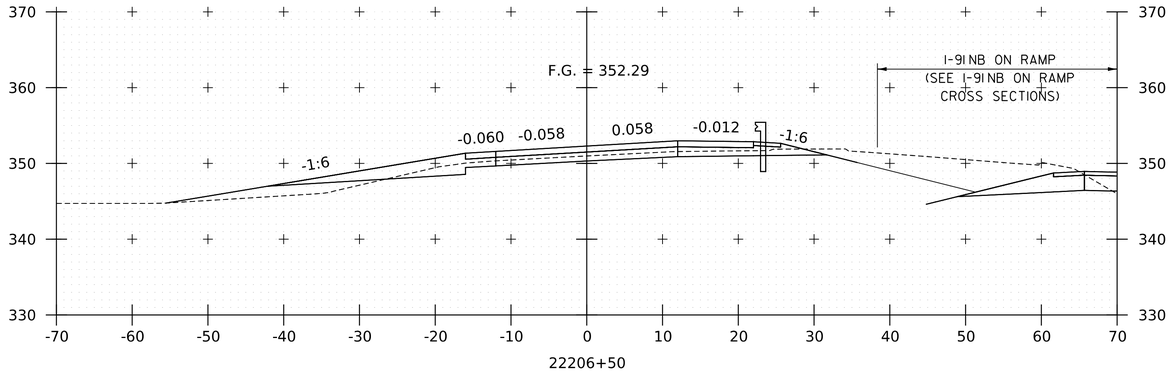
FILE NAME: zl2a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 44

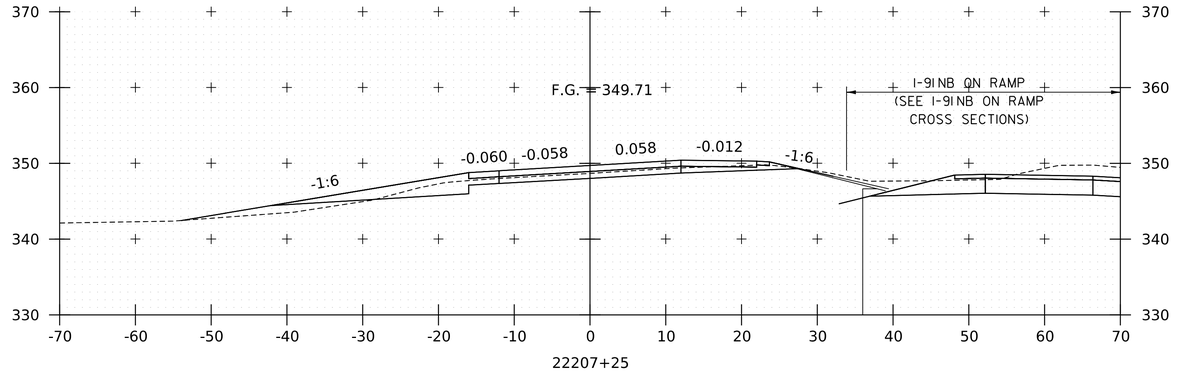
PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 206 OF 395

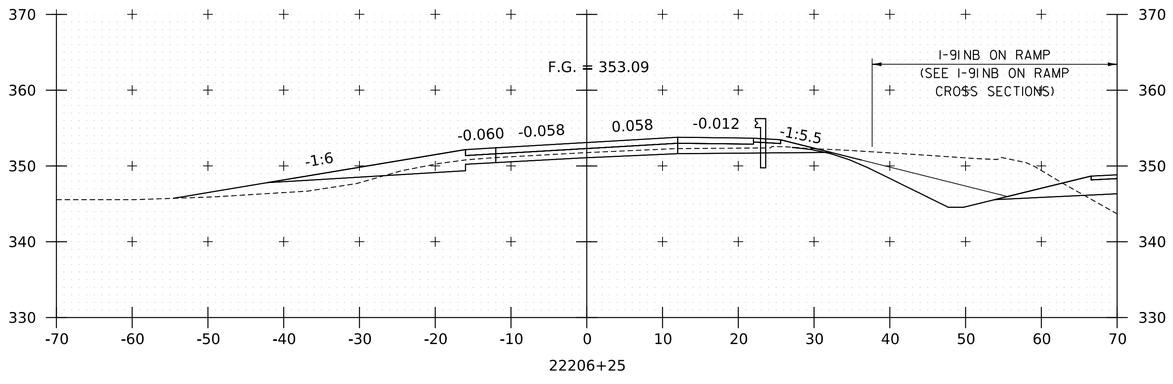
HNTB

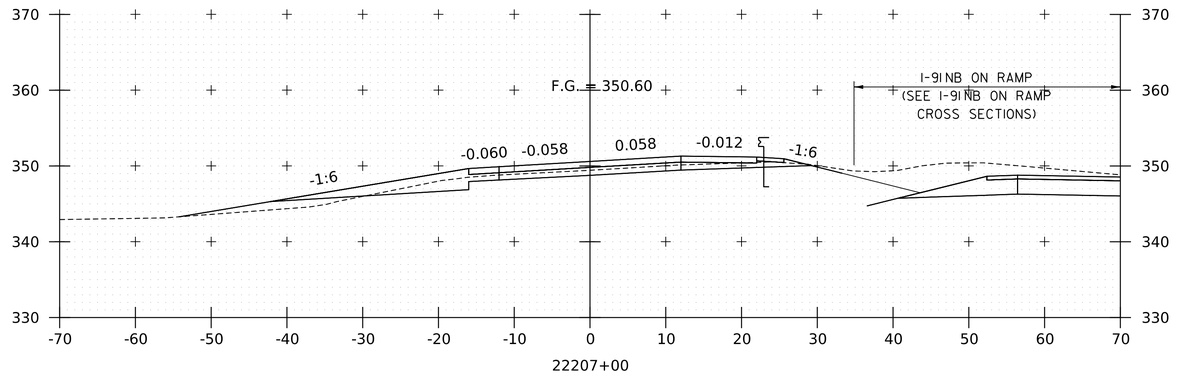






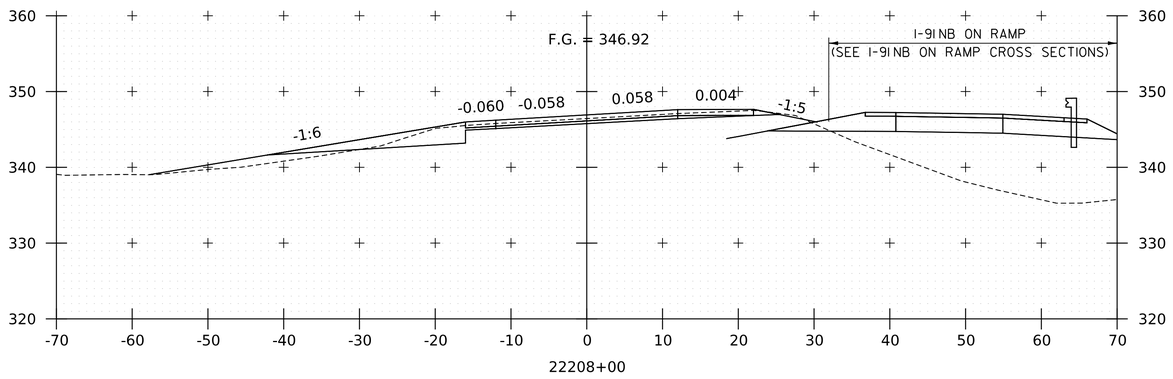


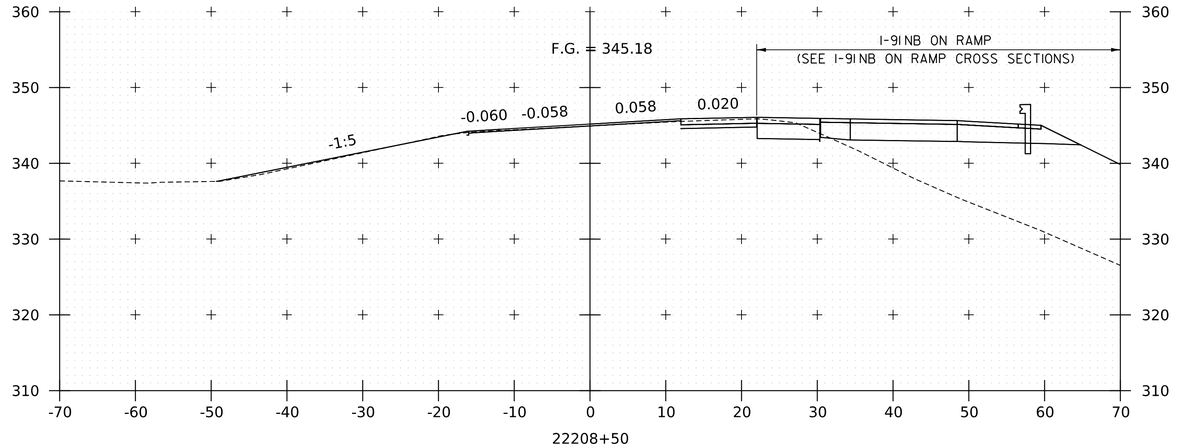


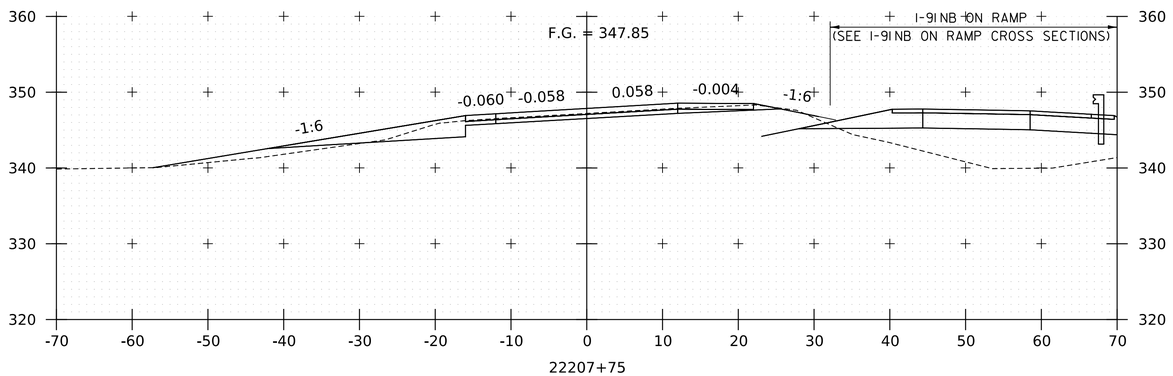


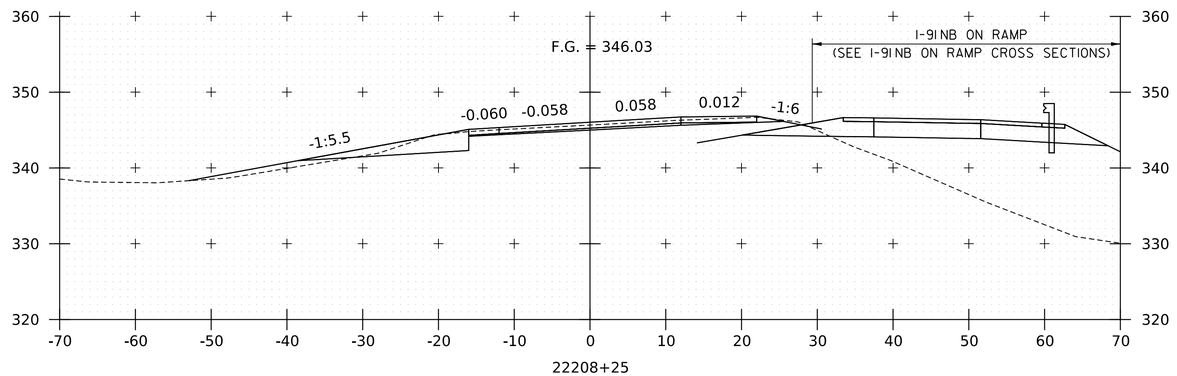
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 45	SHEET 207 OF 395

HNTB



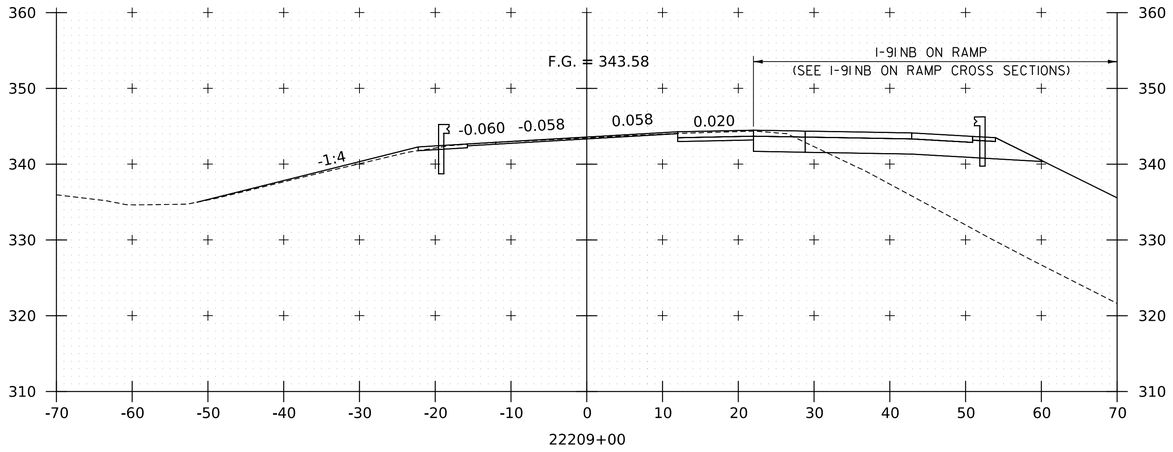


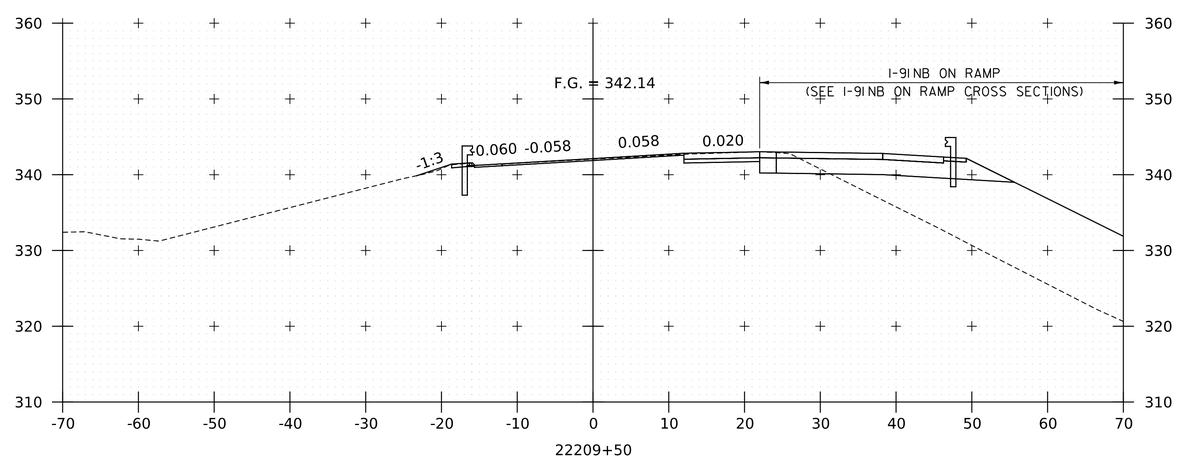


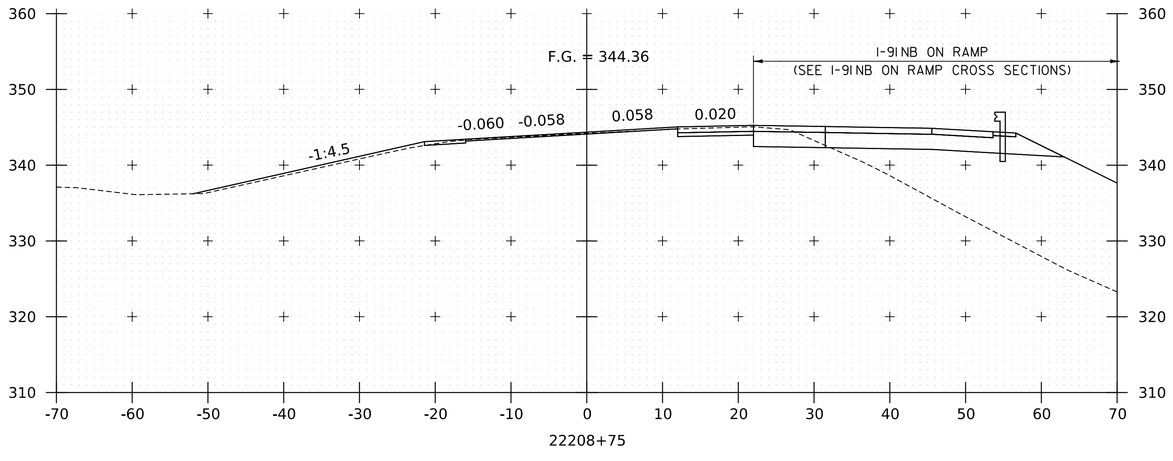


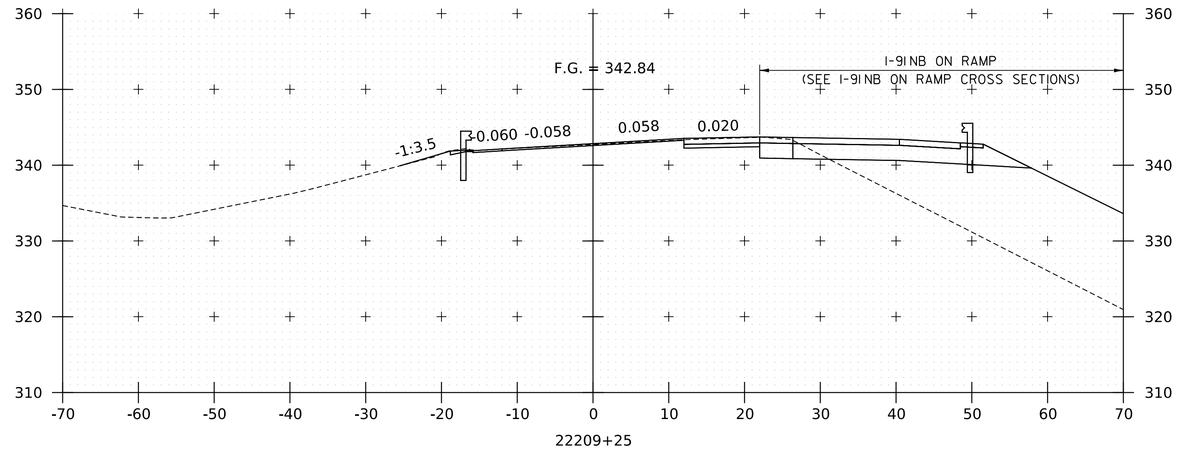
HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 46	SHEET 208 OF 395



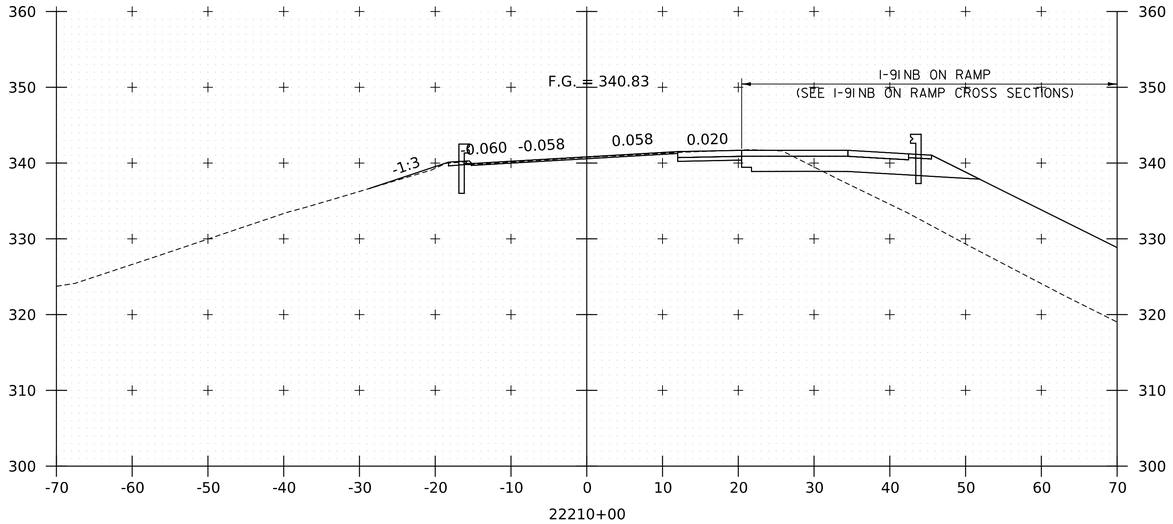


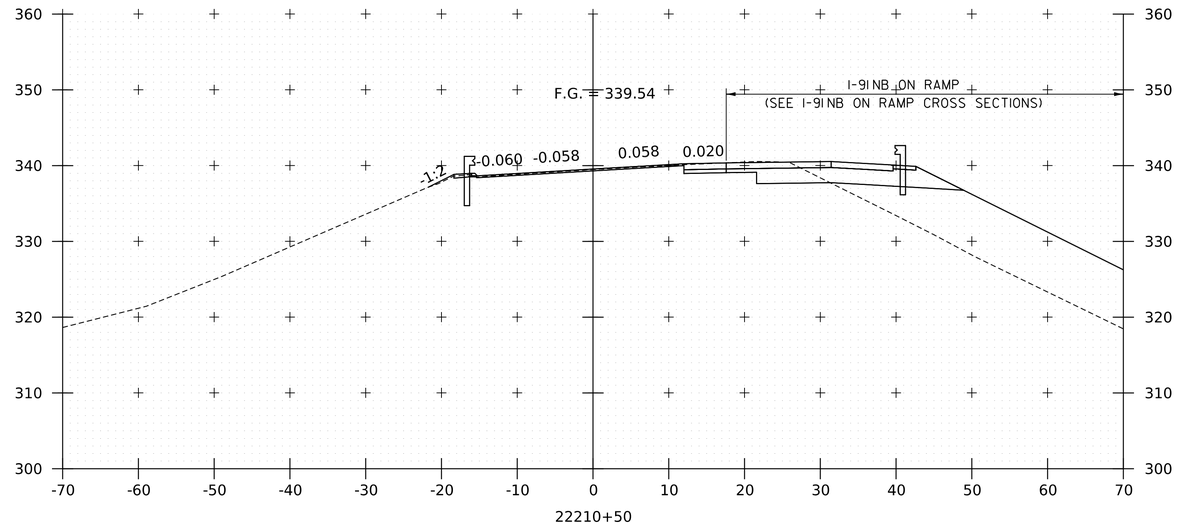


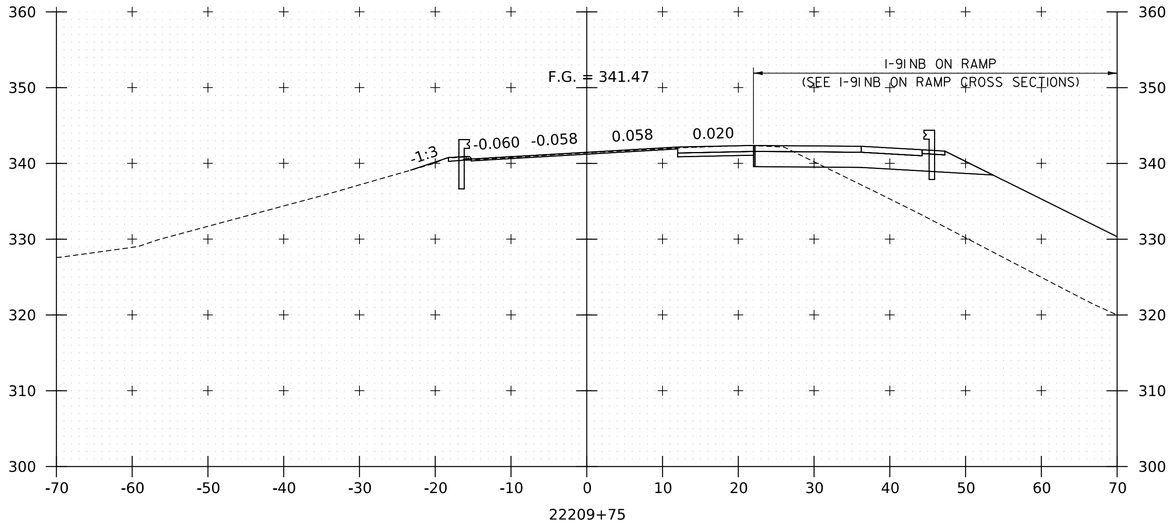


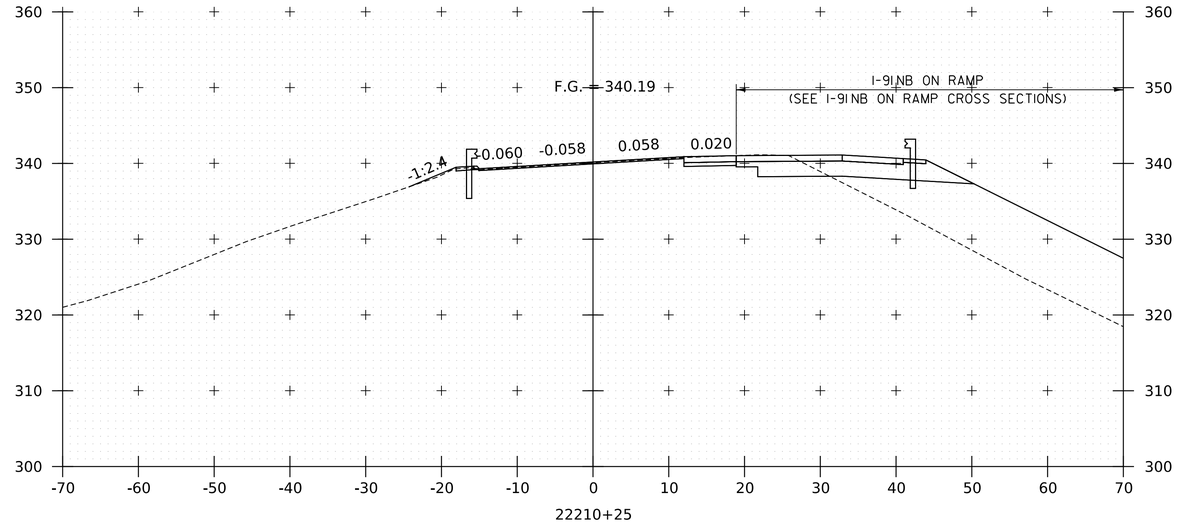
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 47	SHEET 209 OF 395

HNTB



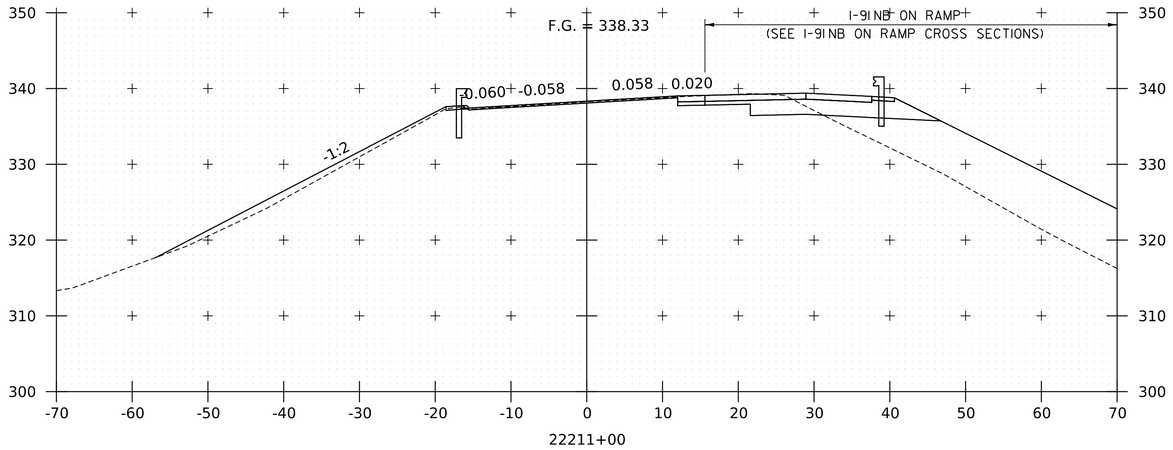


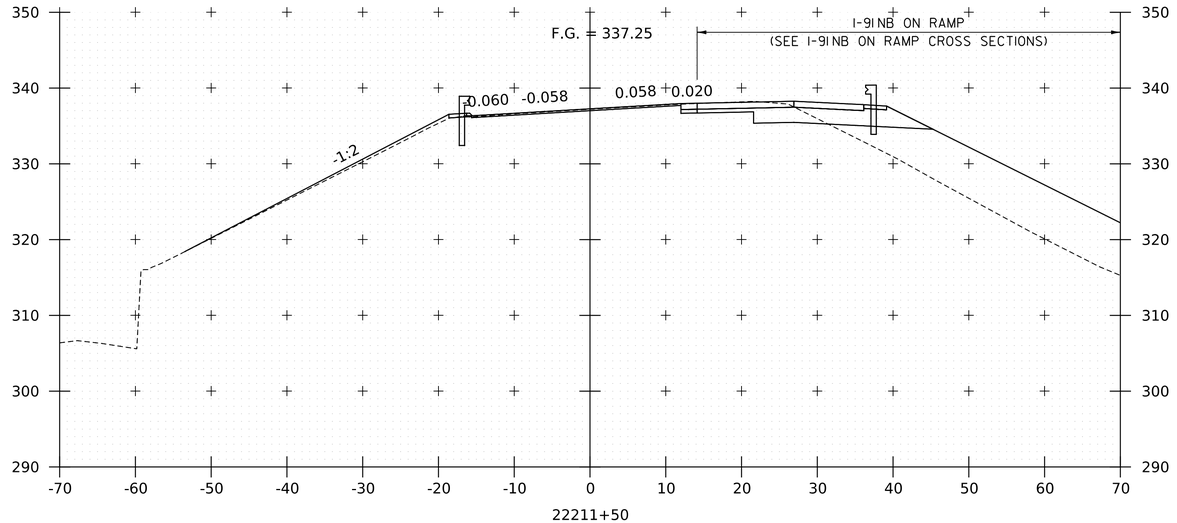


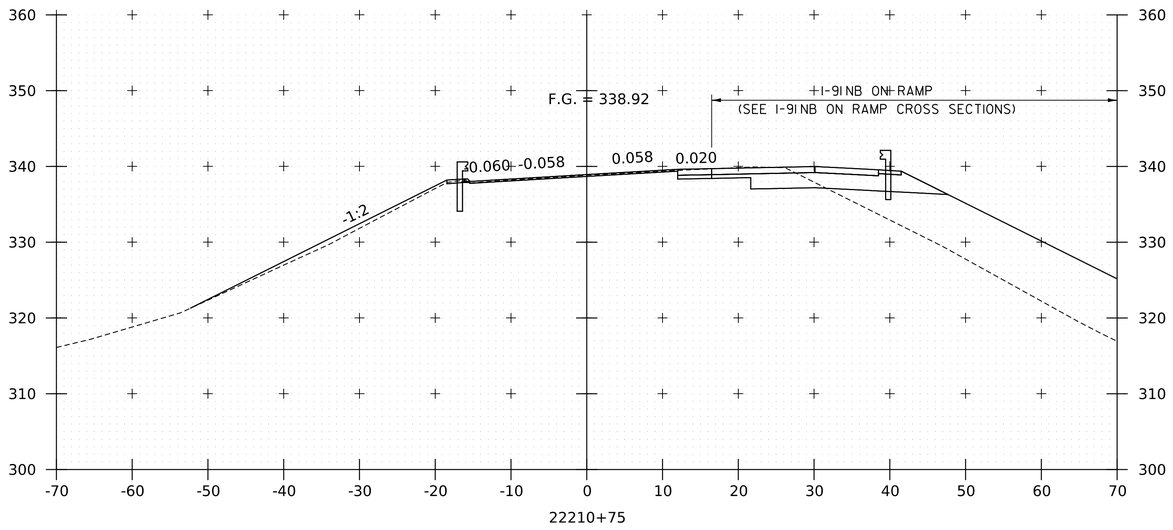


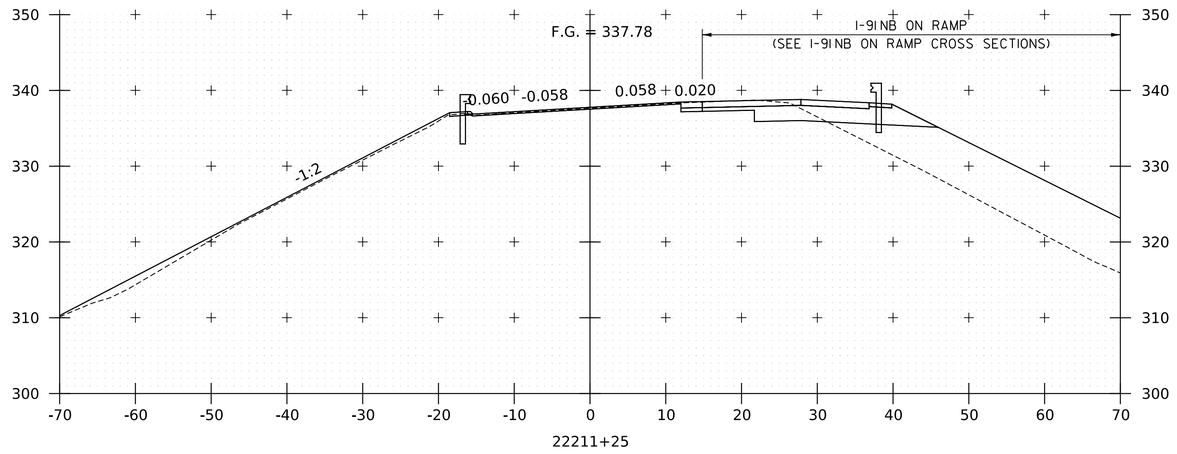
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 48	SHEET 210 OF 395

HNTB



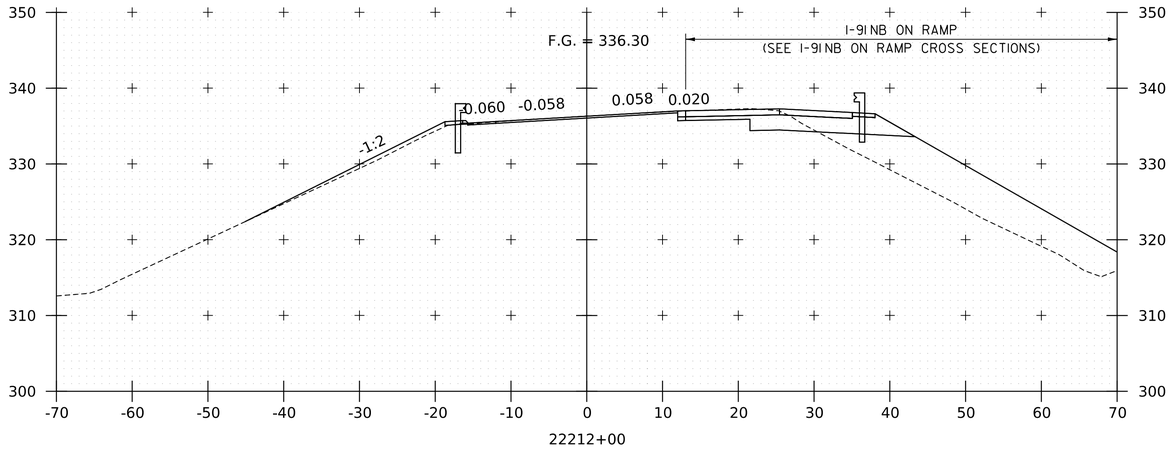


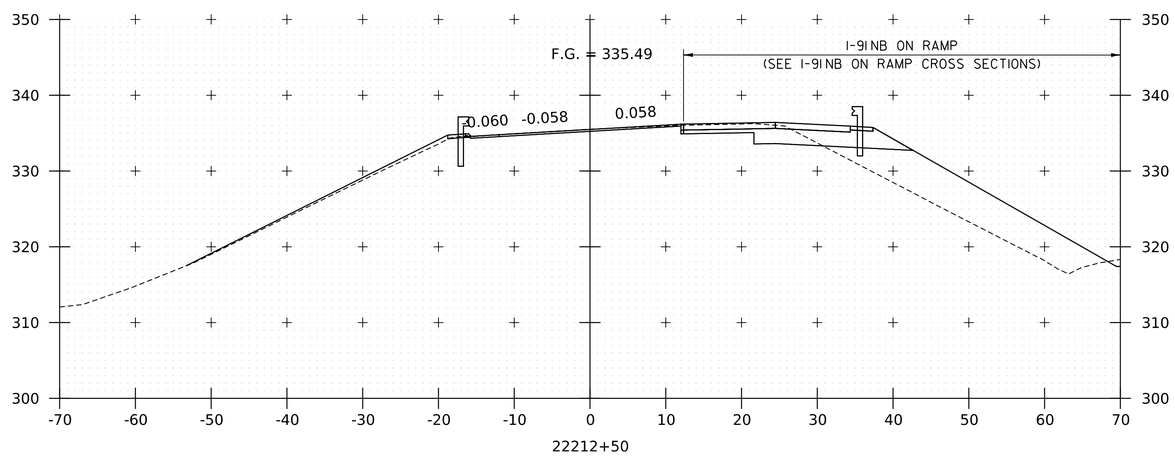


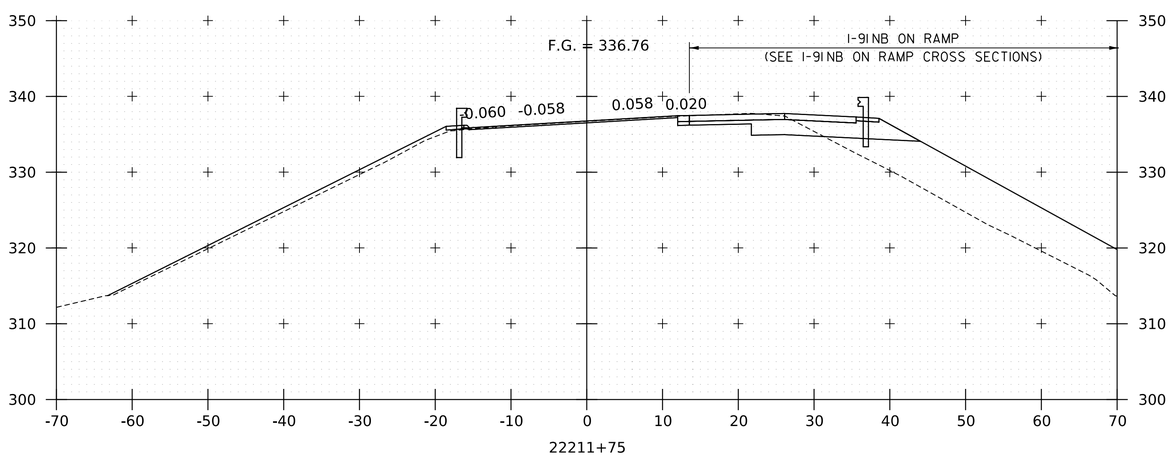


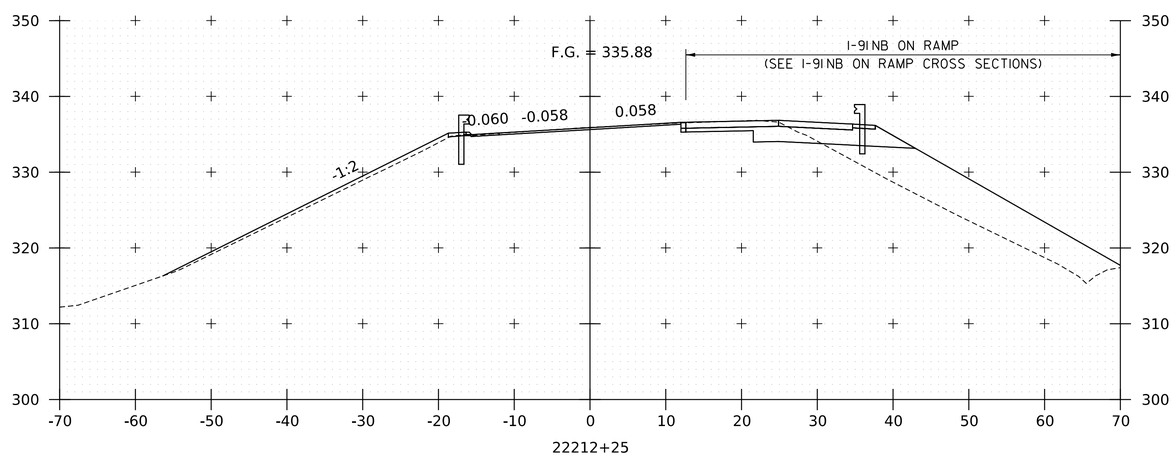
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 49	SHEET 211 OF 395

HNTB







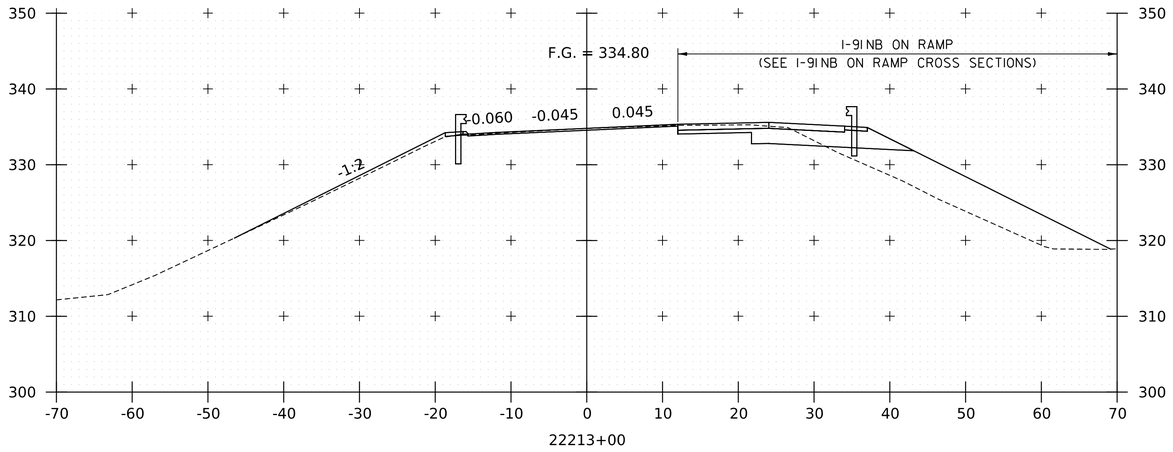


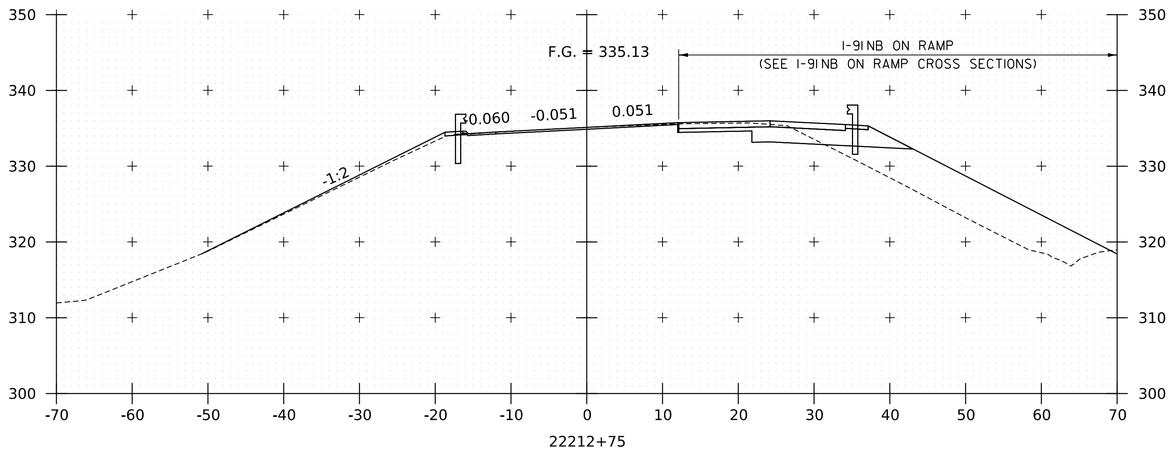
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 50

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 212 OF 395

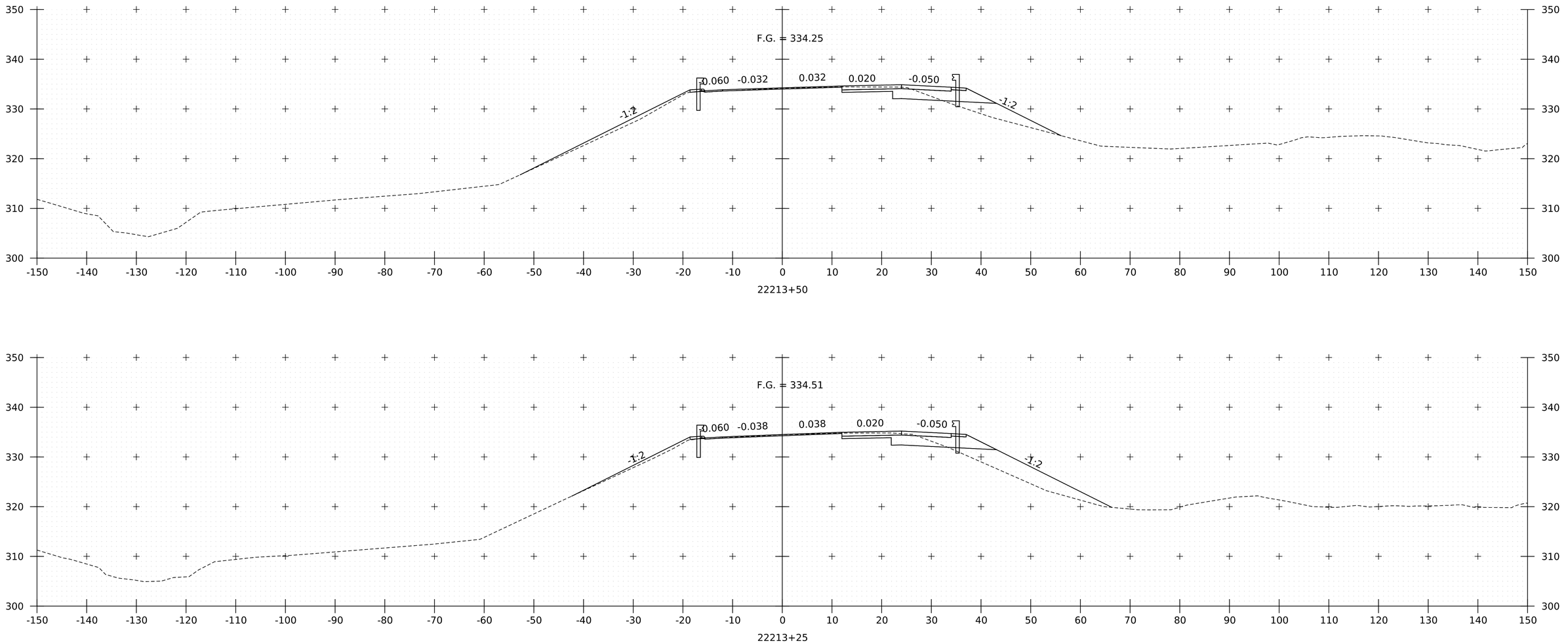
HNTB





PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 51	SHEET 213 OF 395

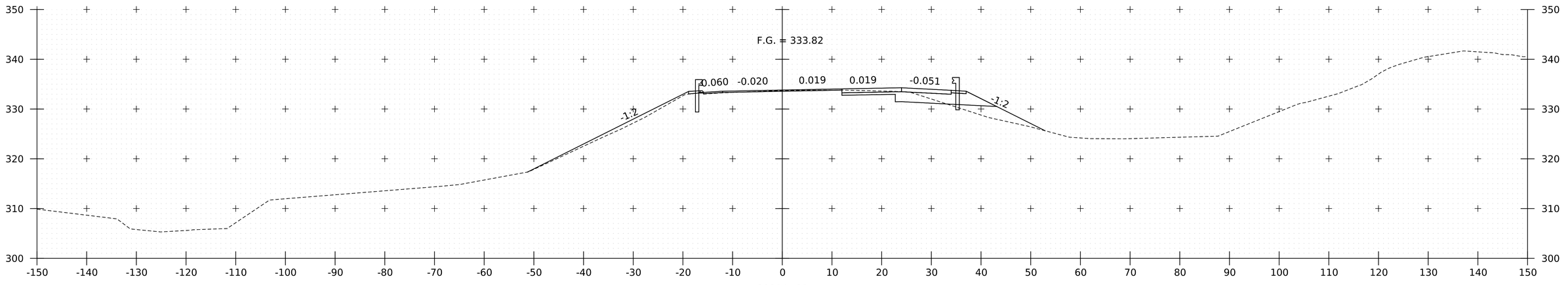
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 52	SHEET 214 OF 395

HNTB



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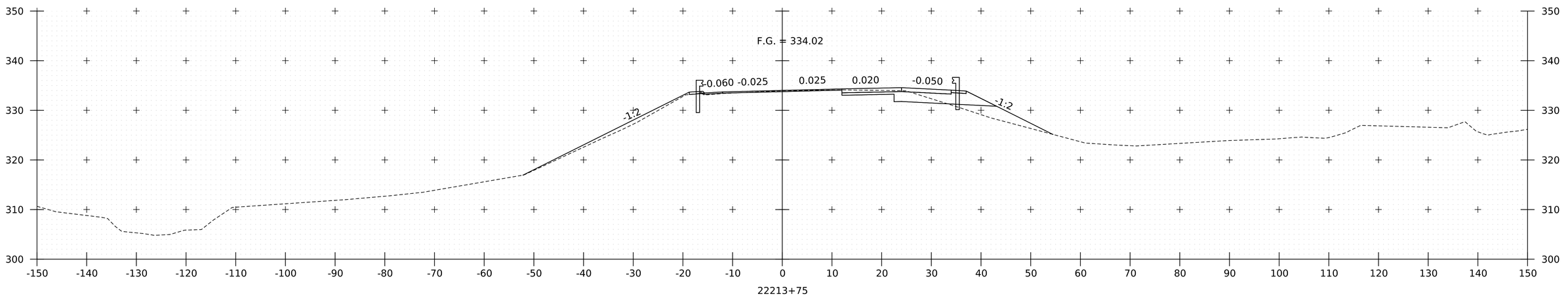

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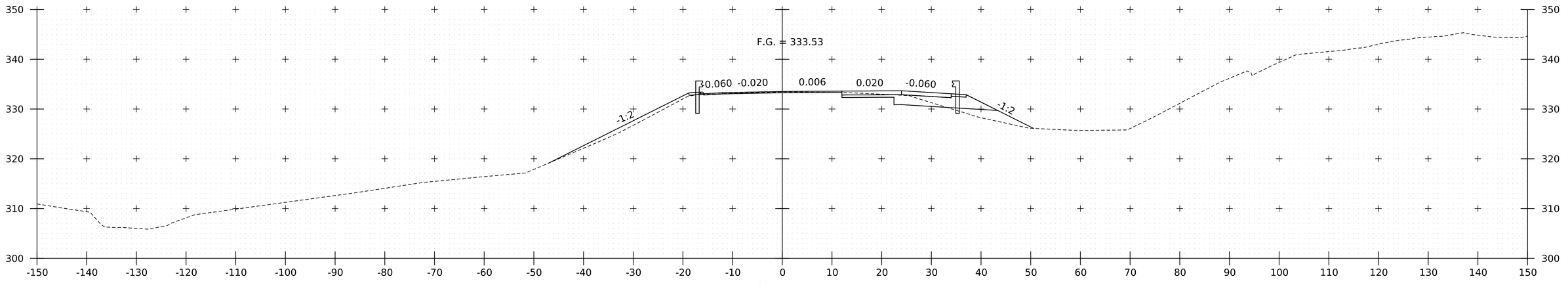
HNTB

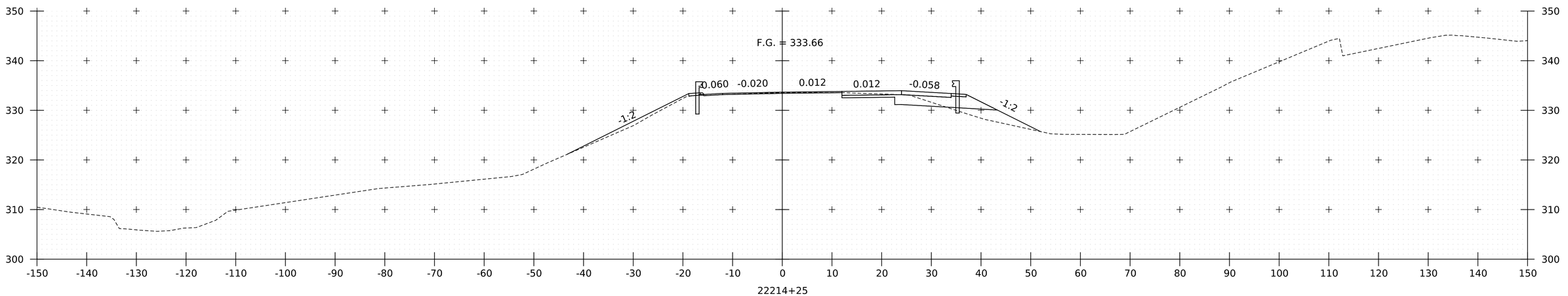
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 53

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 215 OF 395



22214+50



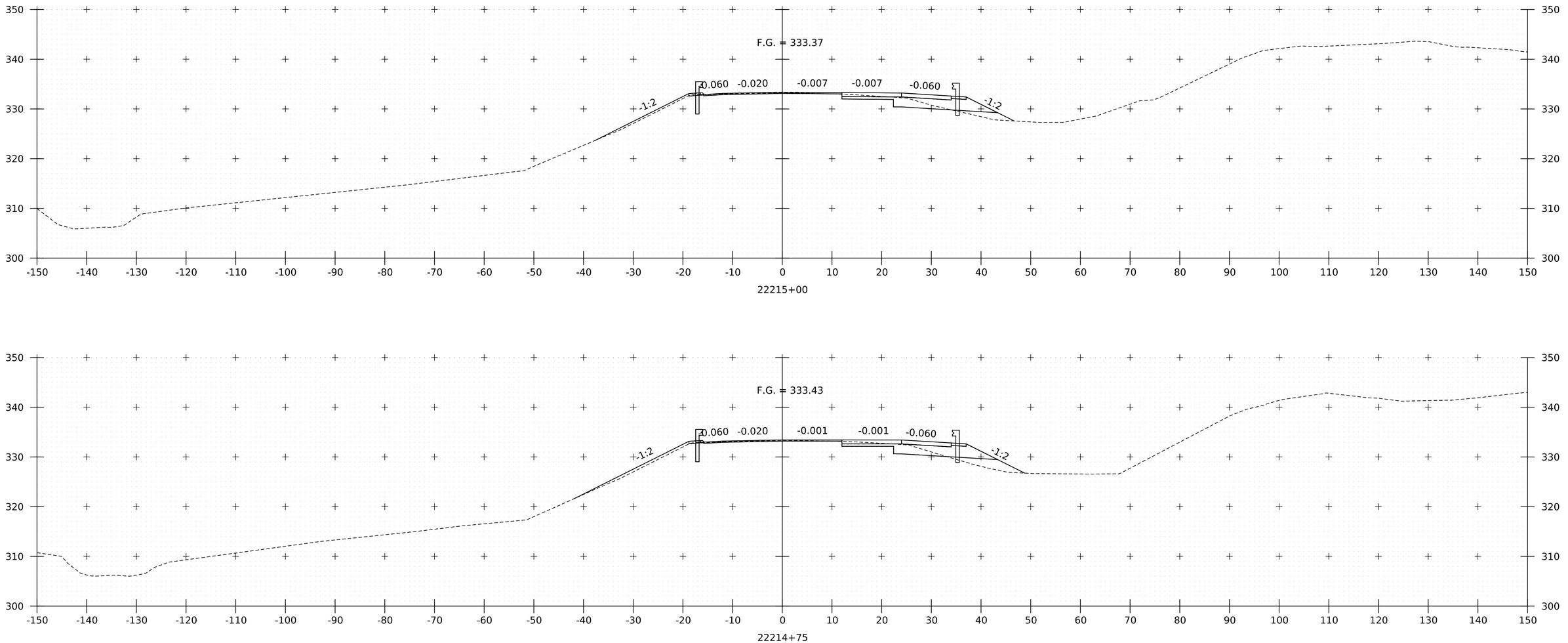
22214+25

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 54

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 216 OF 395



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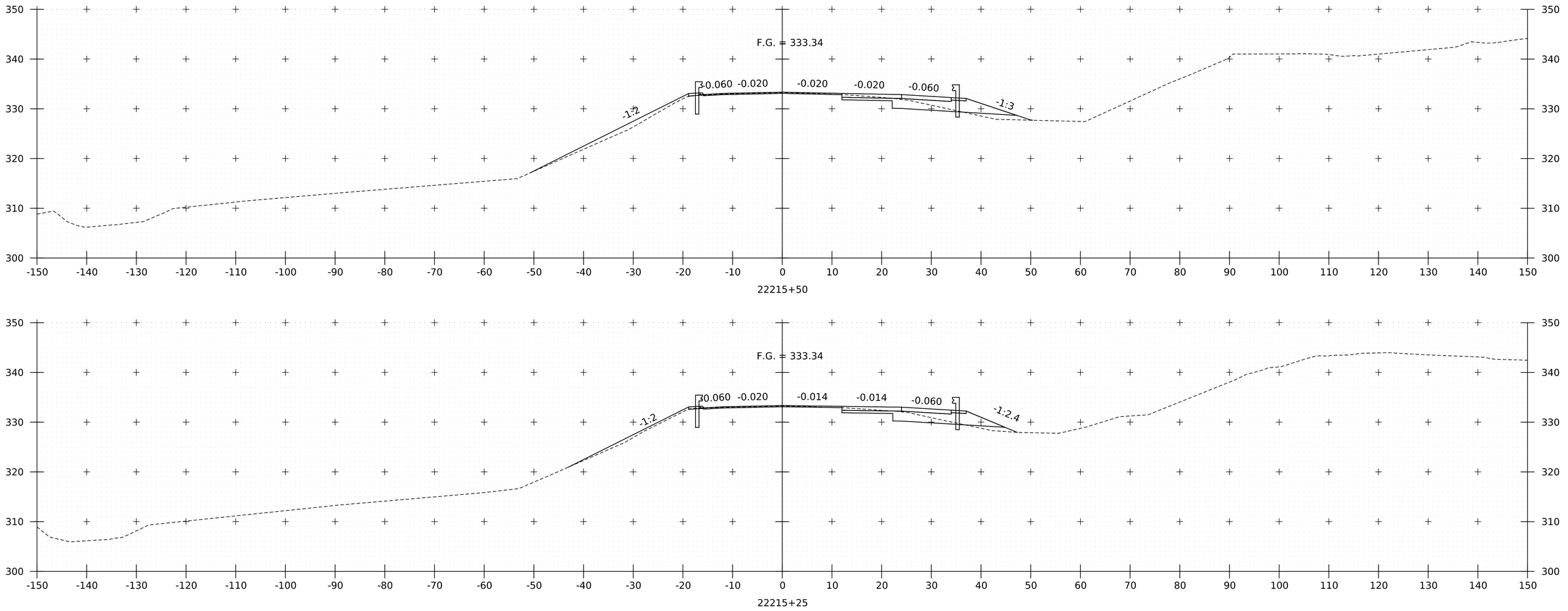
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

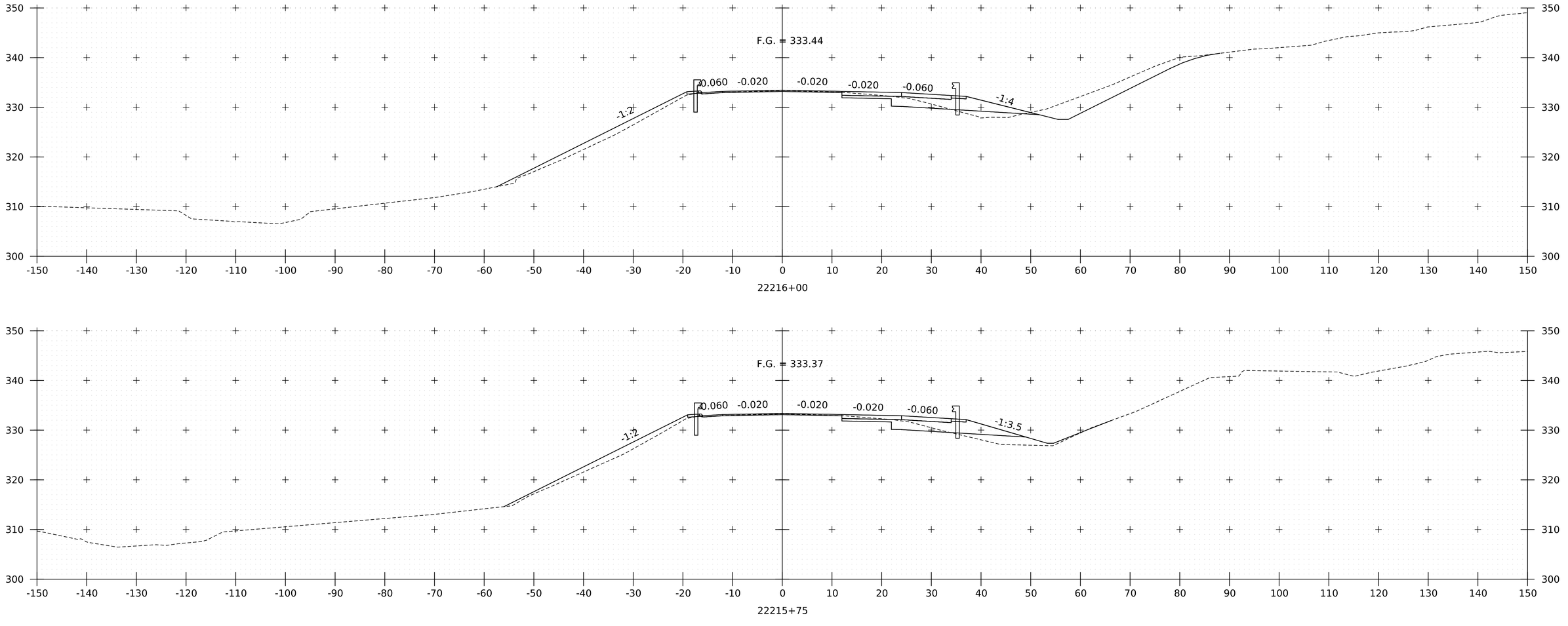
FILE NAME: z12a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 55

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 217 OF 395



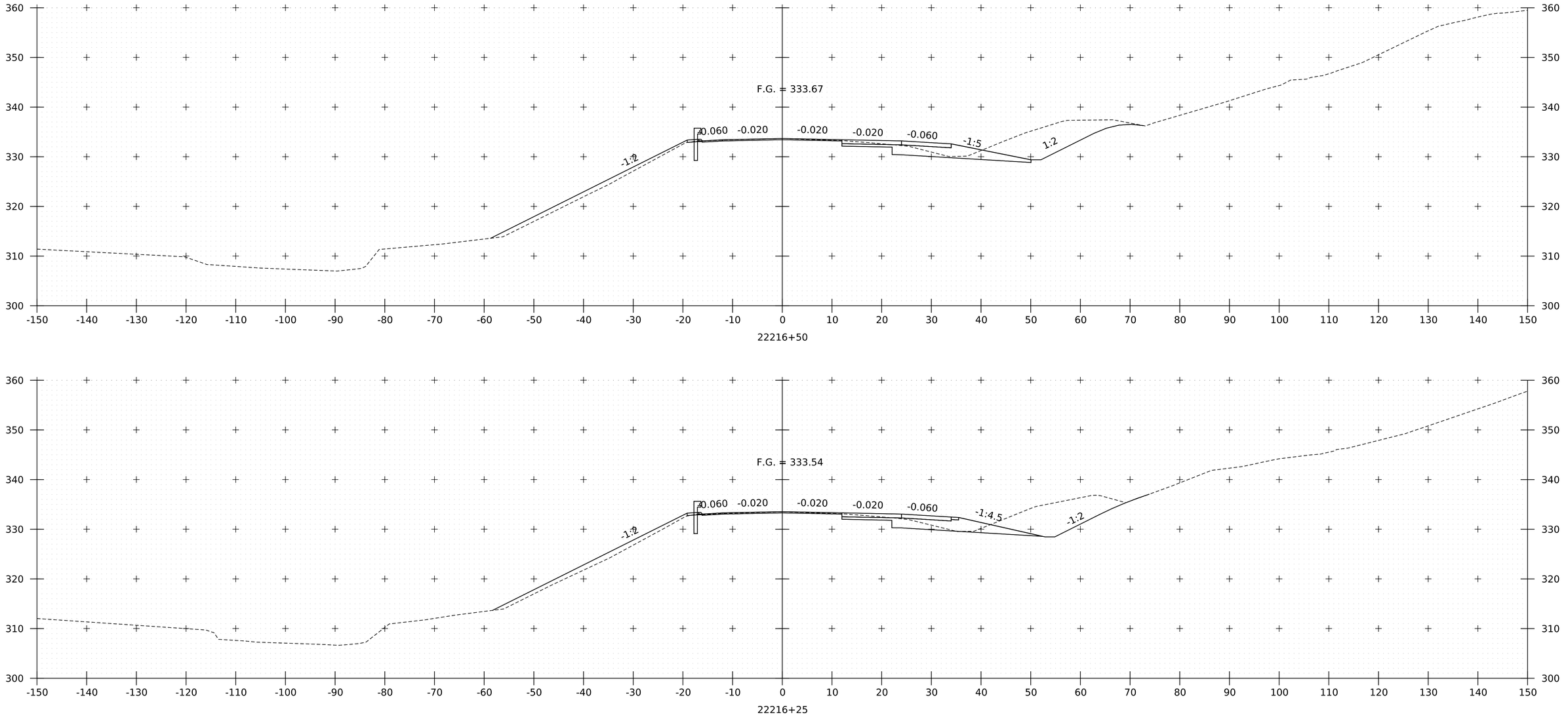
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 56	SHEET 218 OF 395

HNTB



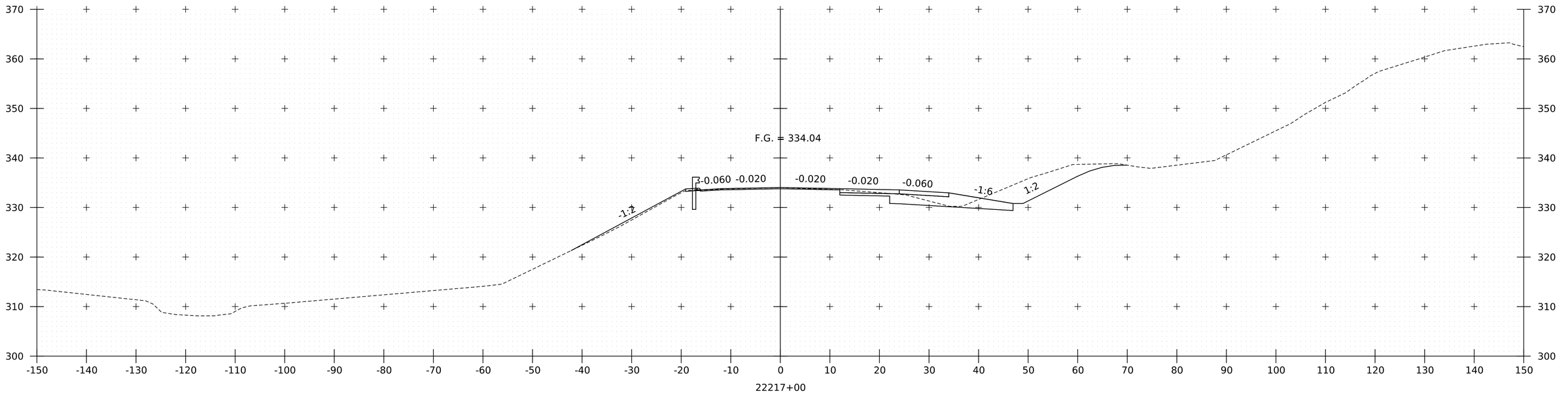
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 57	SHEET 219 OF 395

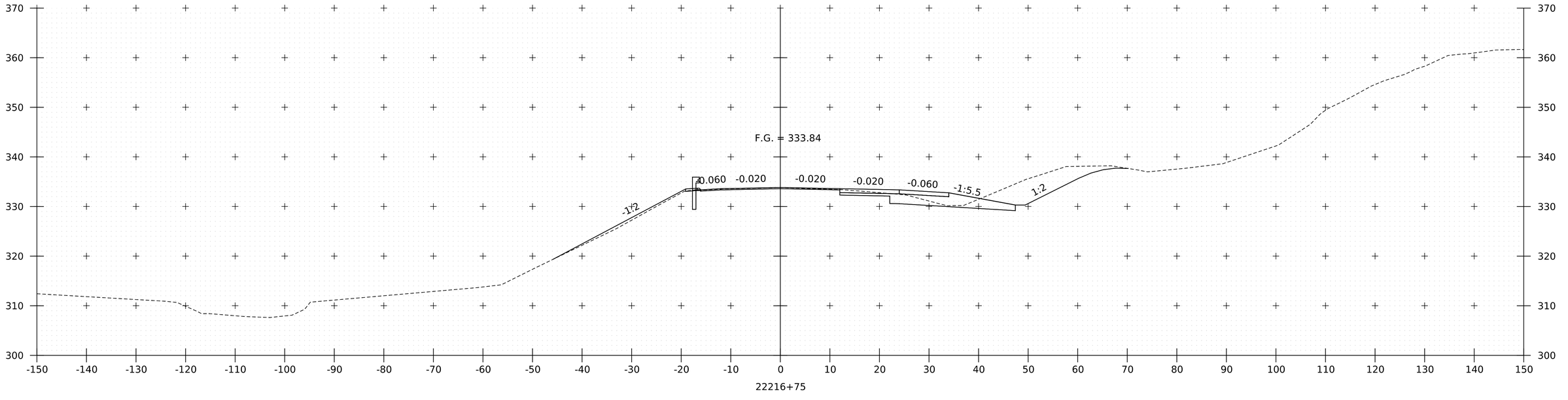
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 58	SHEET 220 OF 395

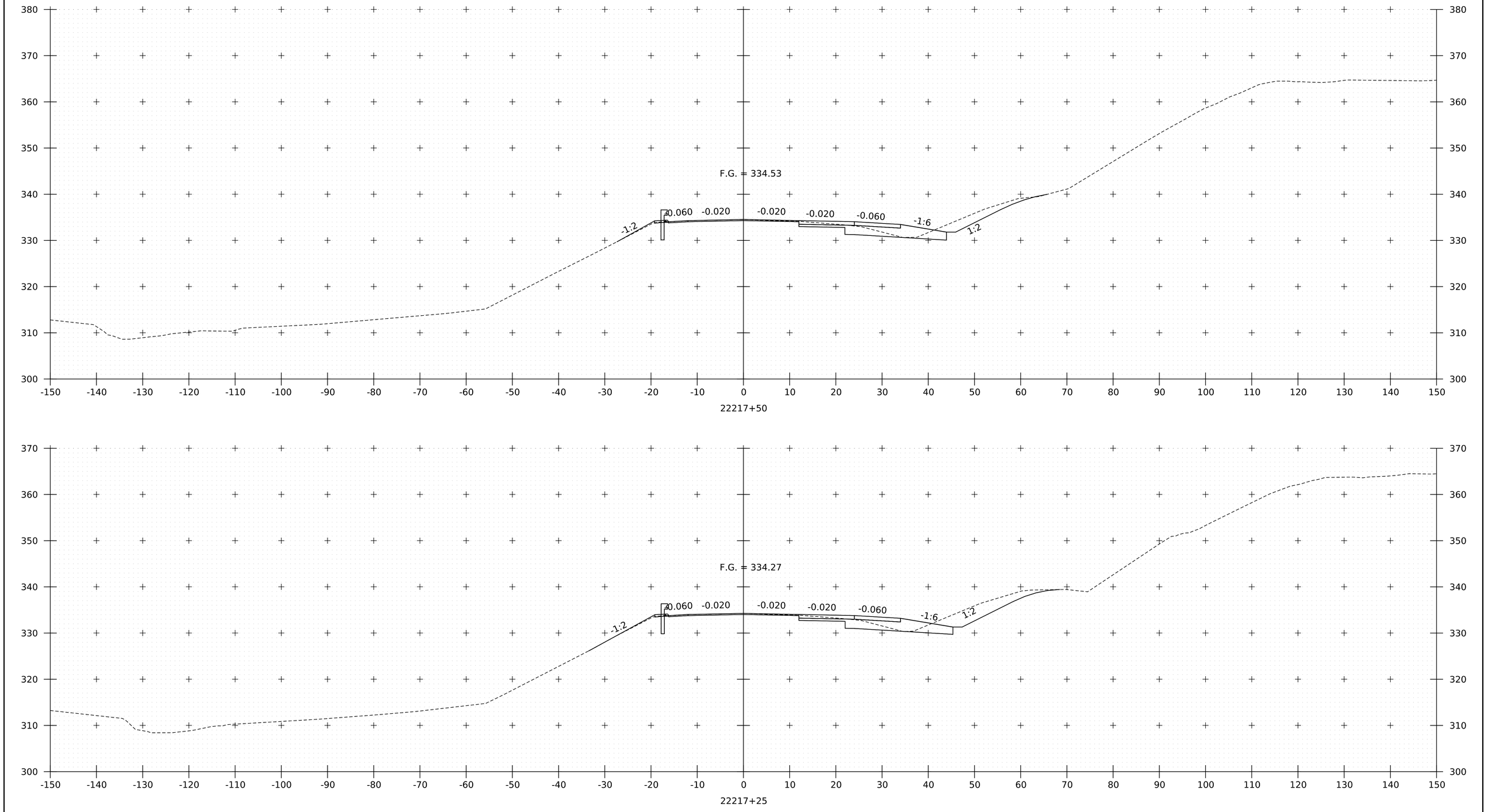
HNTB





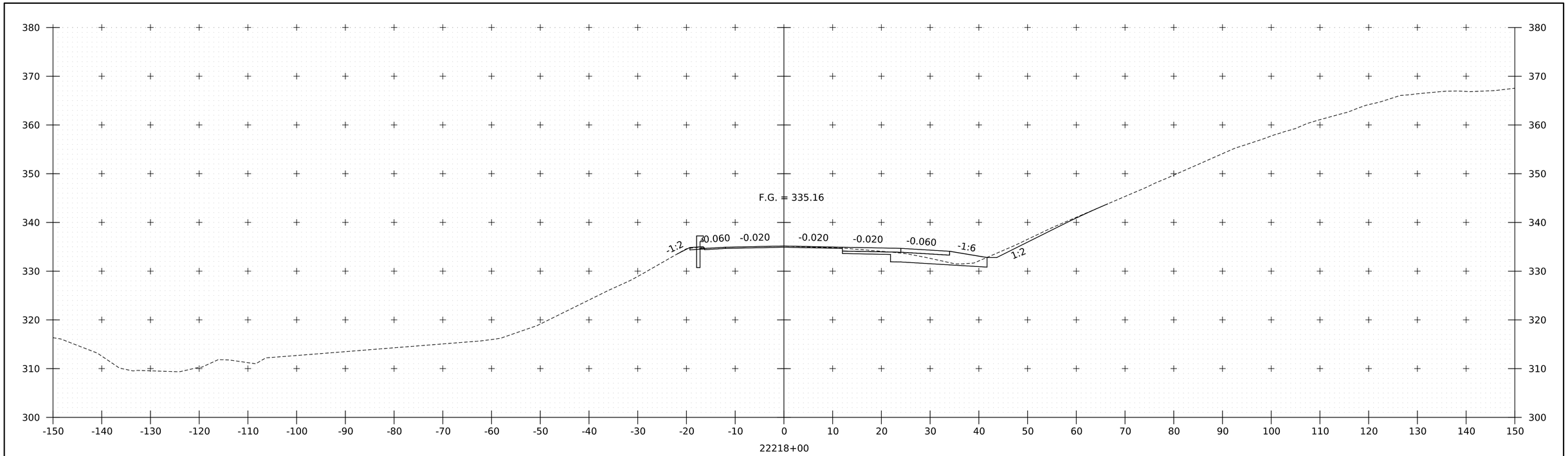
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 59	SHEET 221 OF 395

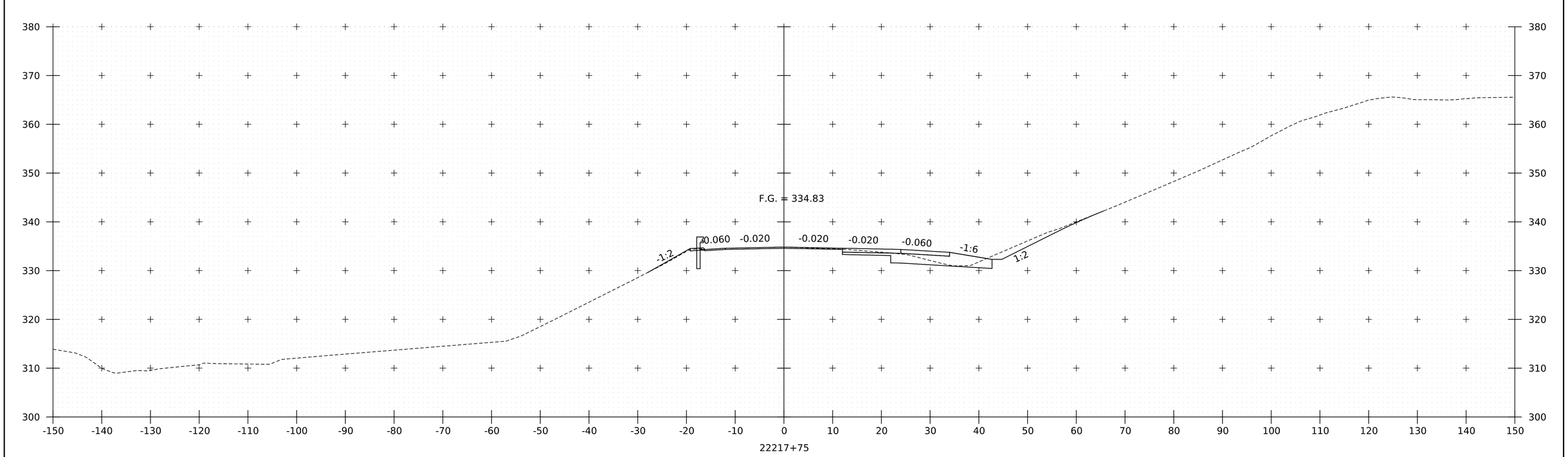
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 60	SHEET 222 OF 395

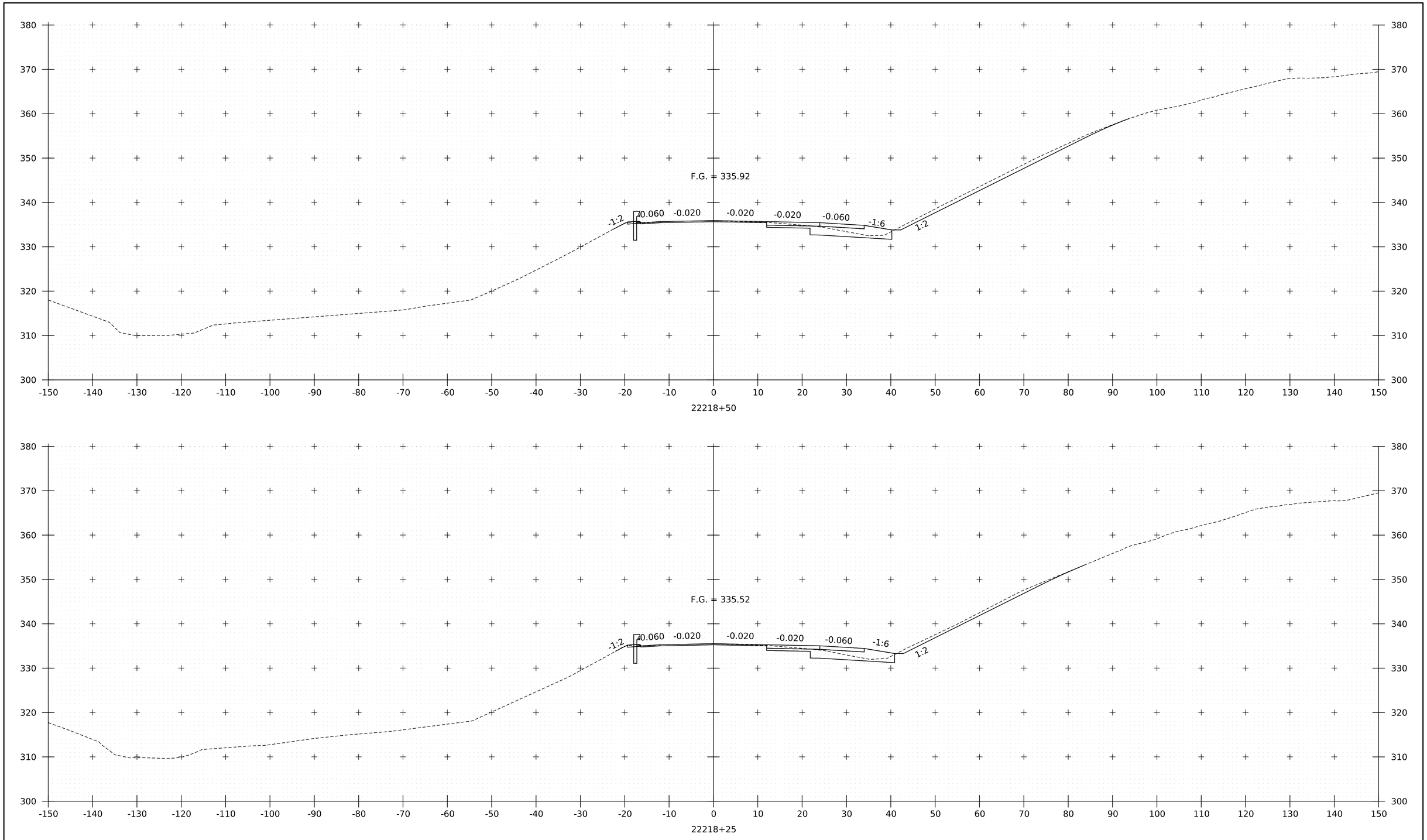
HNTB





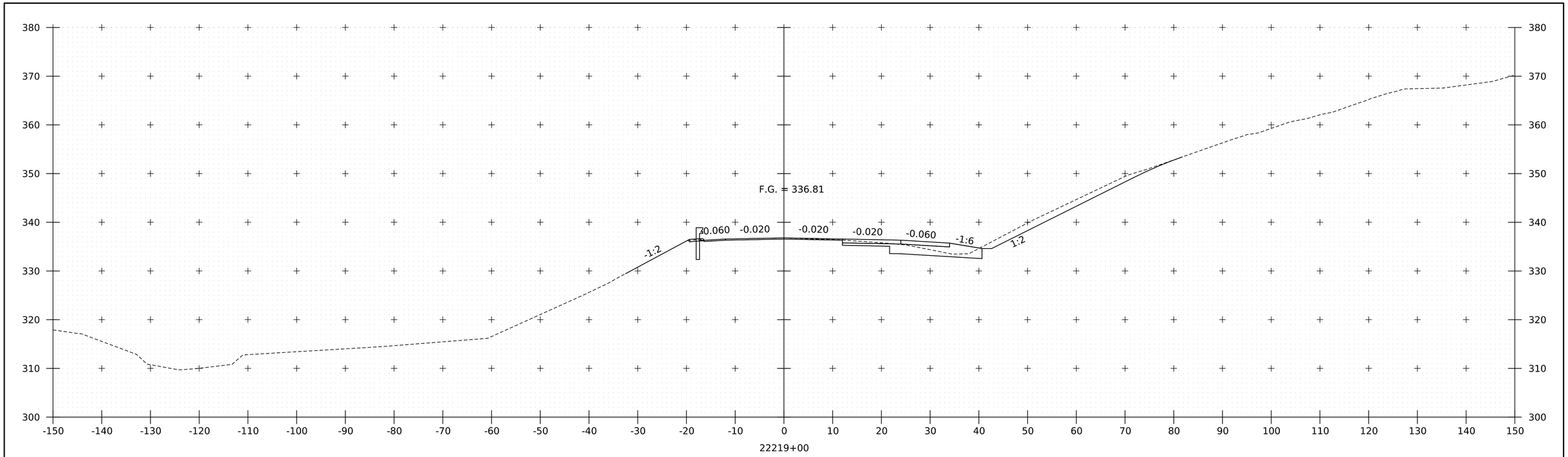
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 61	SHEET 223 OF 395

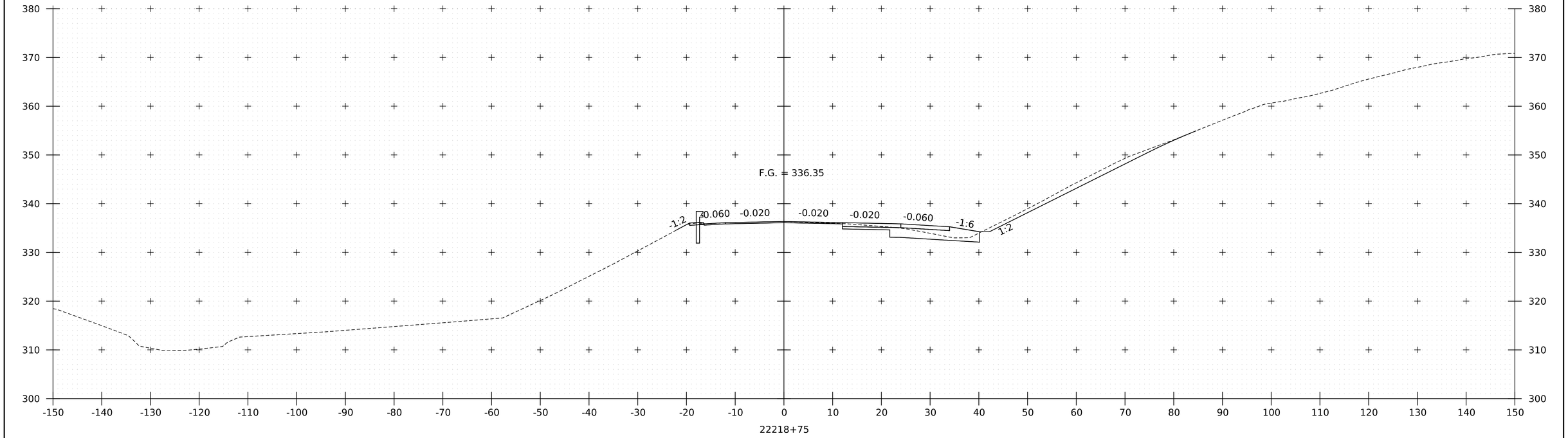
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 62	SHEET 224 OF 395

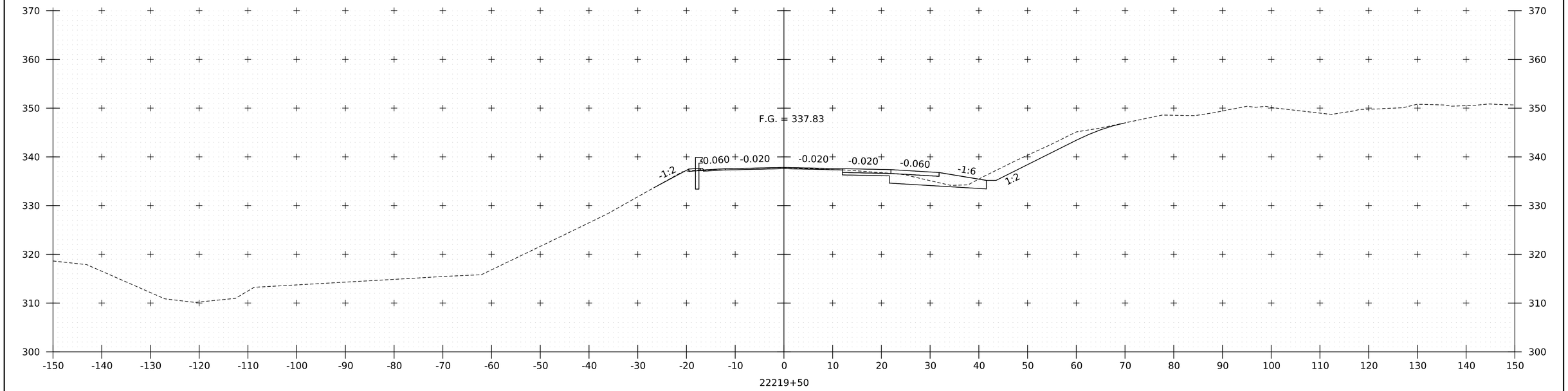
HNTB

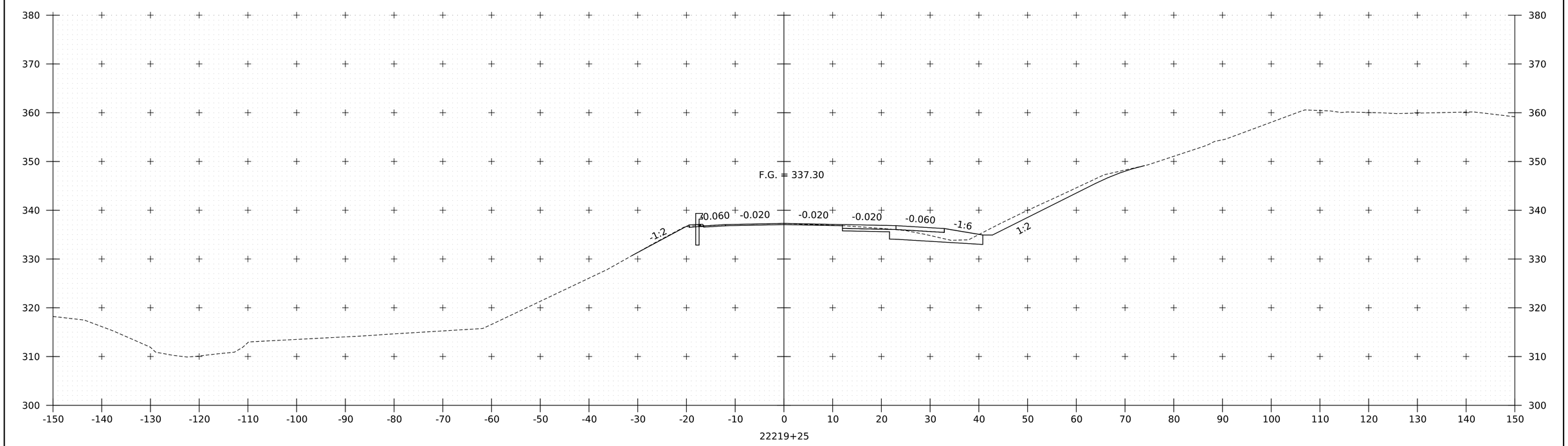




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 63	SHEET 225 OF 395

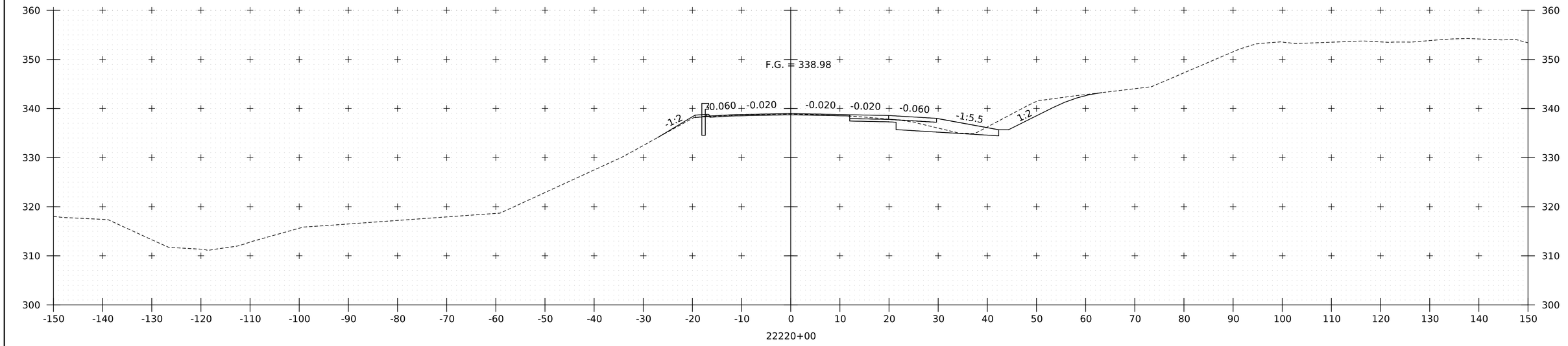
HNTB

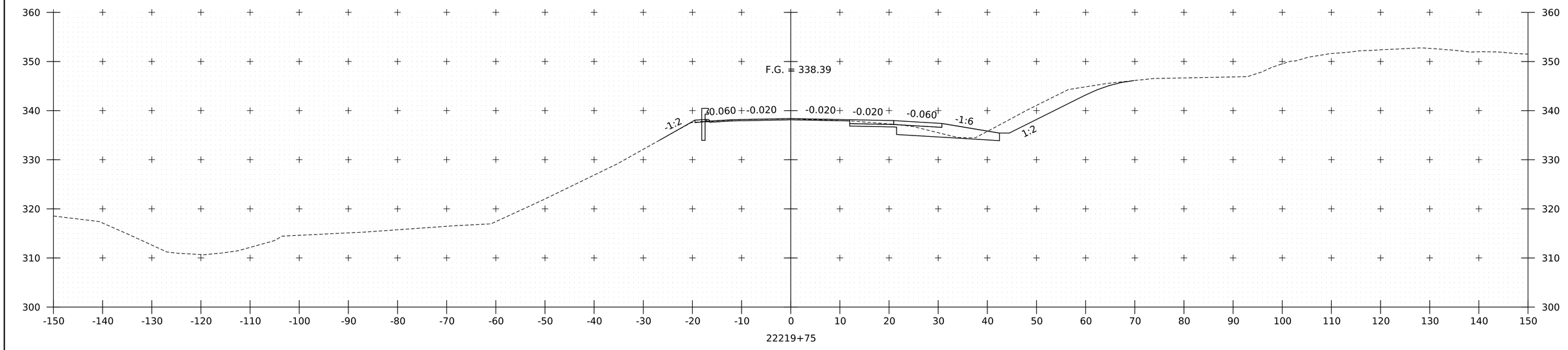




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 64	SHEET 226 OF 395

HNTB

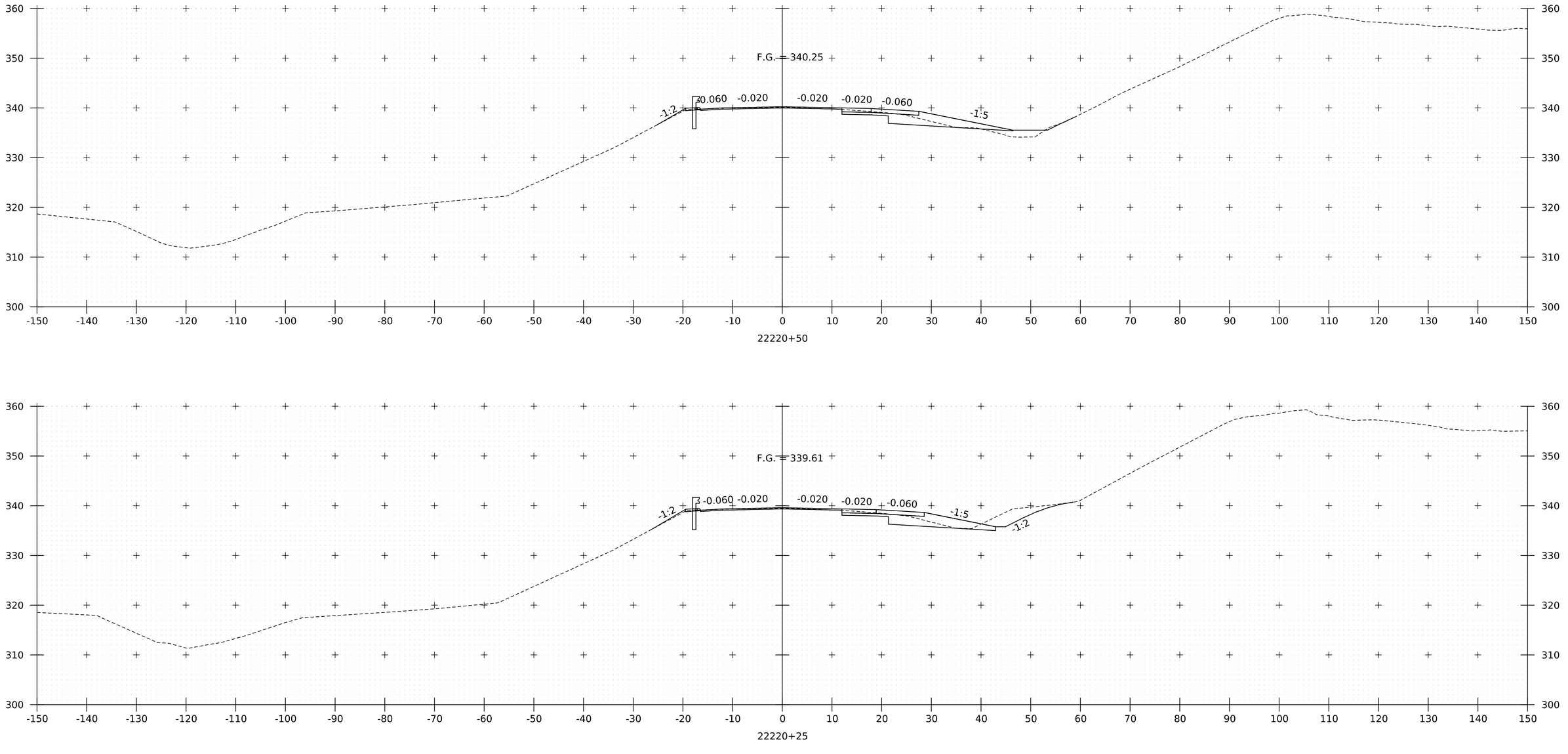




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 65	SHEET 227 OF 395

HNTB

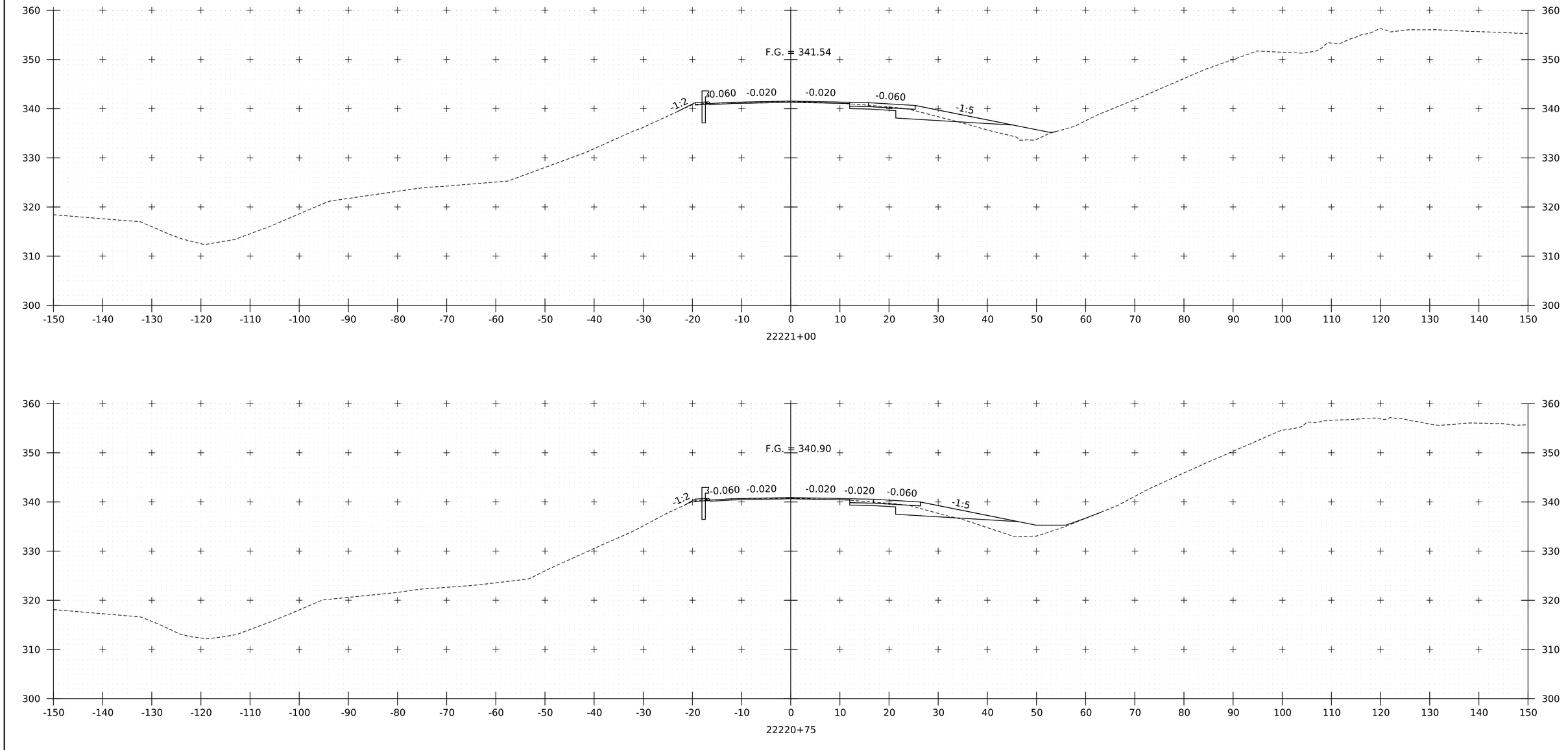


PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 66

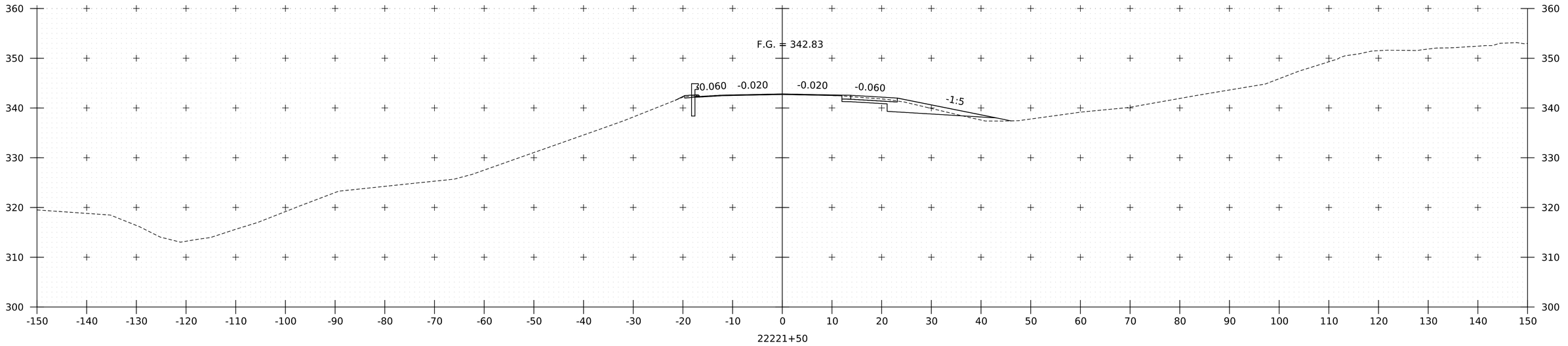
PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 228 OF 395

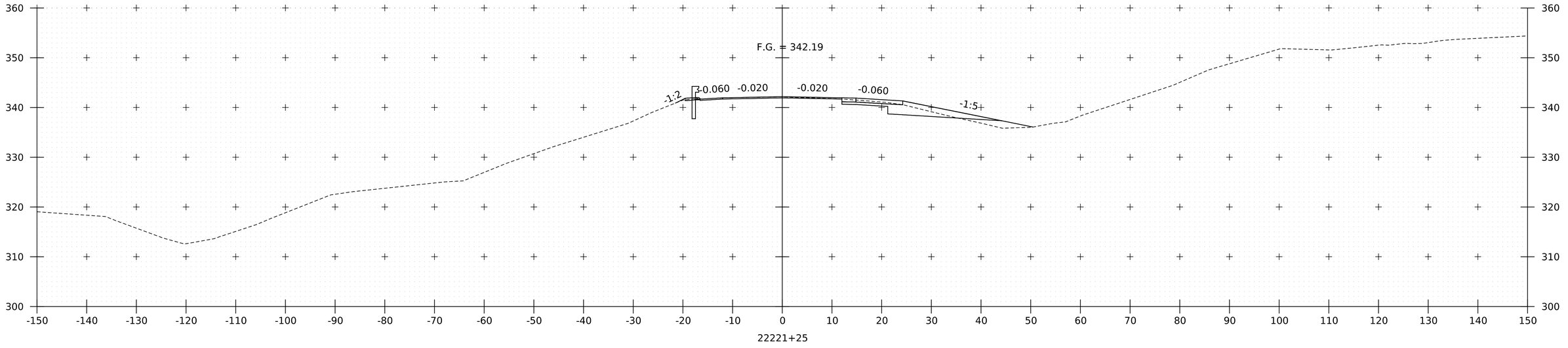
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 67	SHEET 229 OF 395

HNTB

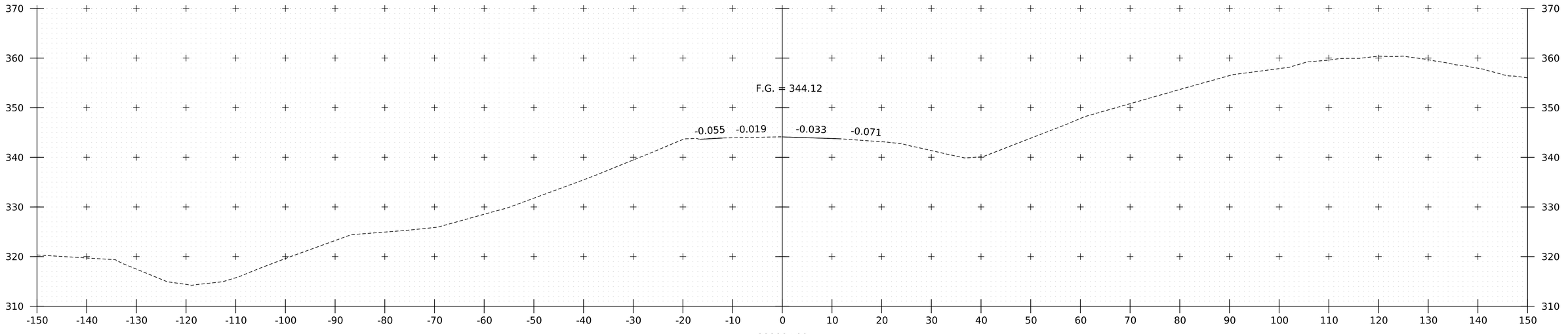


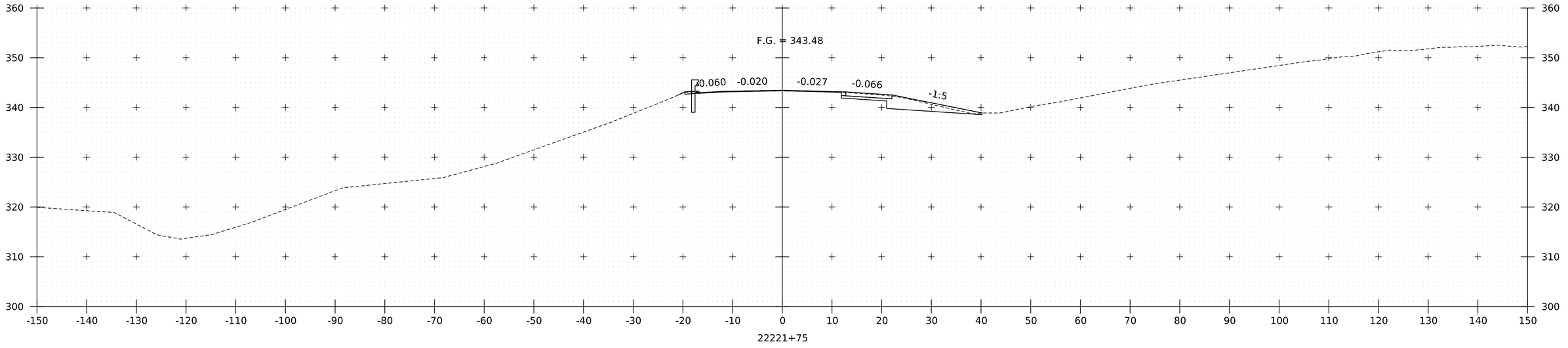


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 68	SHEET 230 OF 395

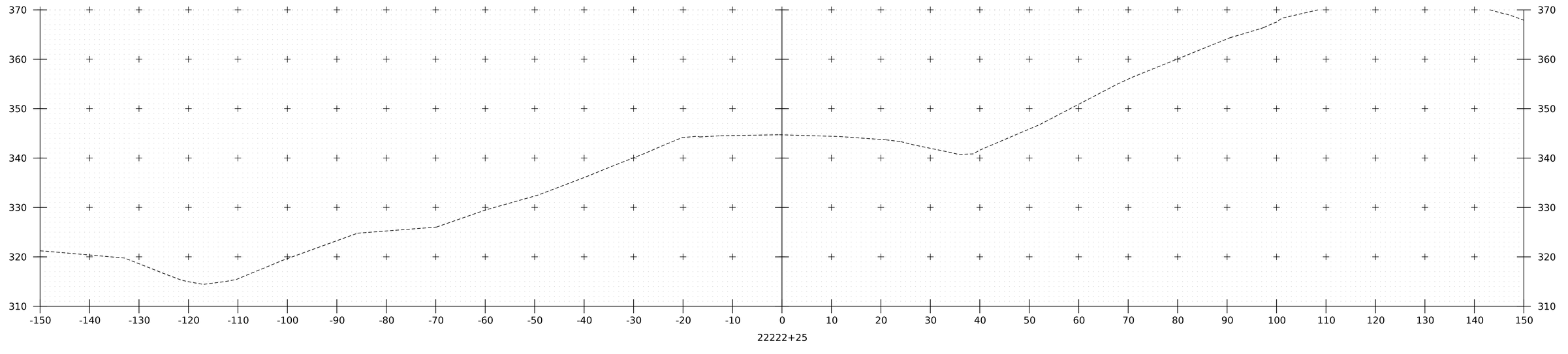
HNTB





PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 69	SHEET 231 OF 395

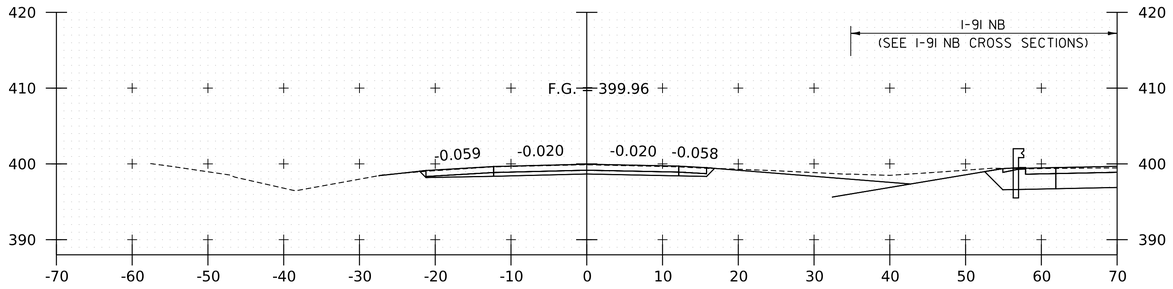
HNTB



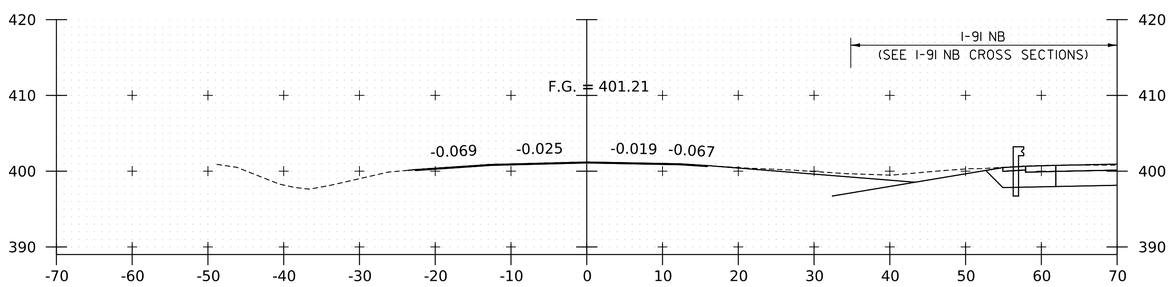
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_I-91_NB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB CROSS SECTIONS 70

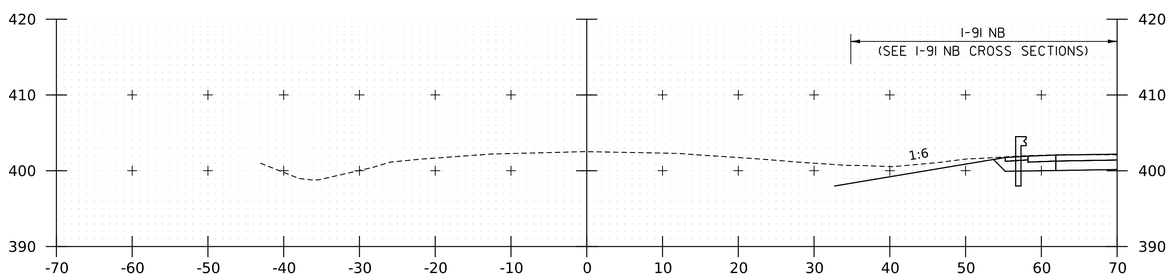
PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 232 OF 395



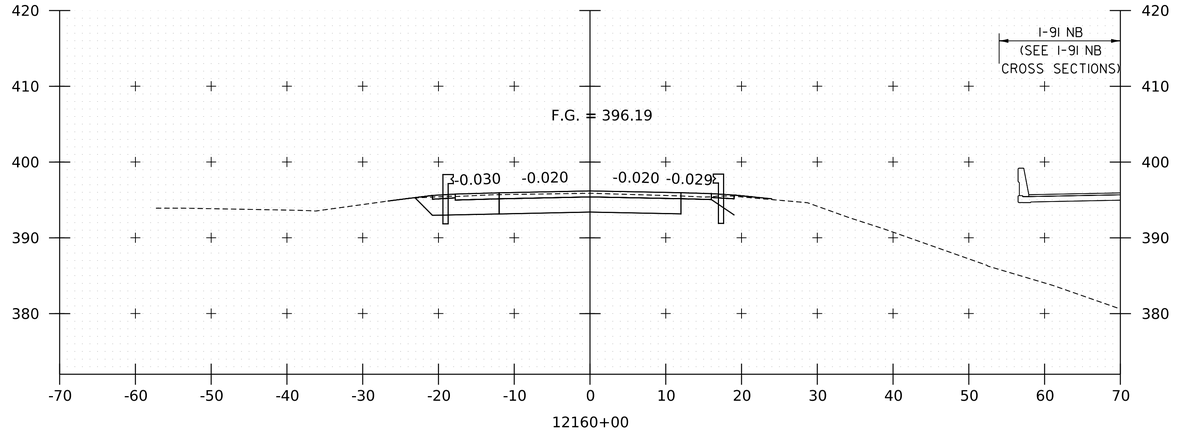
12159+25
BEGIN SOUTHBOUND PROJECT



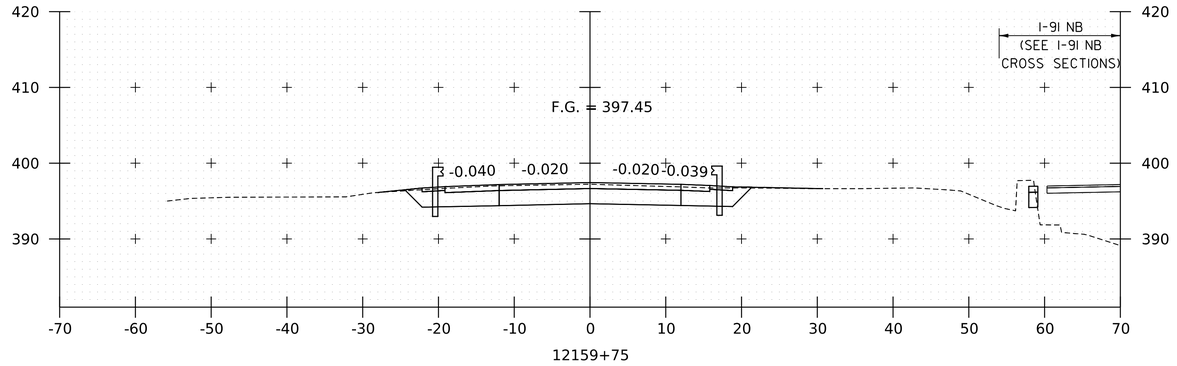
12159+00
BEGIN SOUTHBOUND APPROACH
MATCH EXISTING



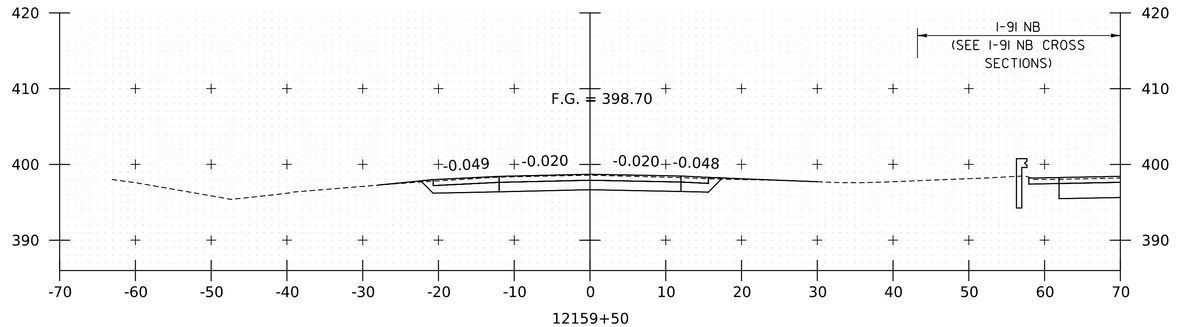
12158+75



12160+00



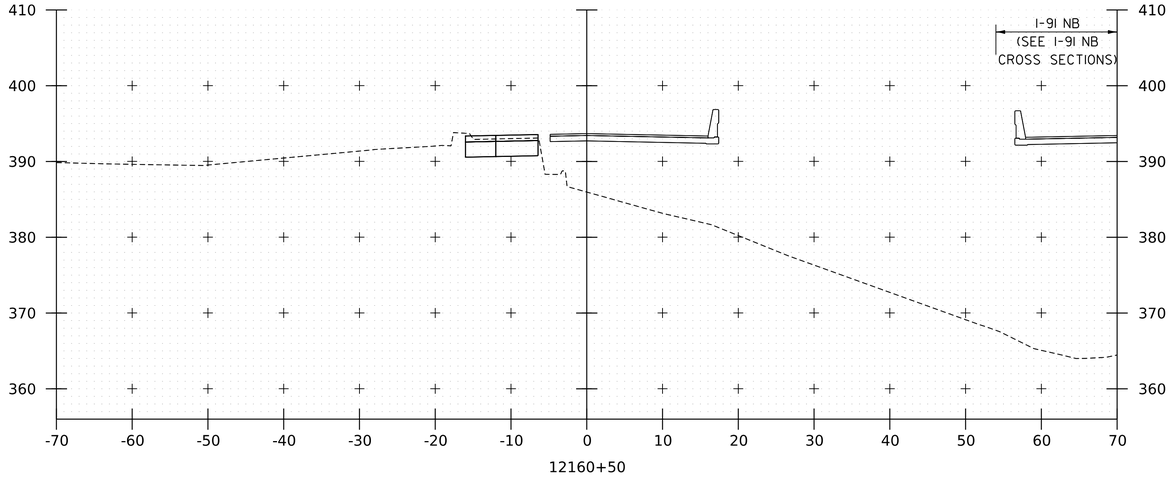
12159+75



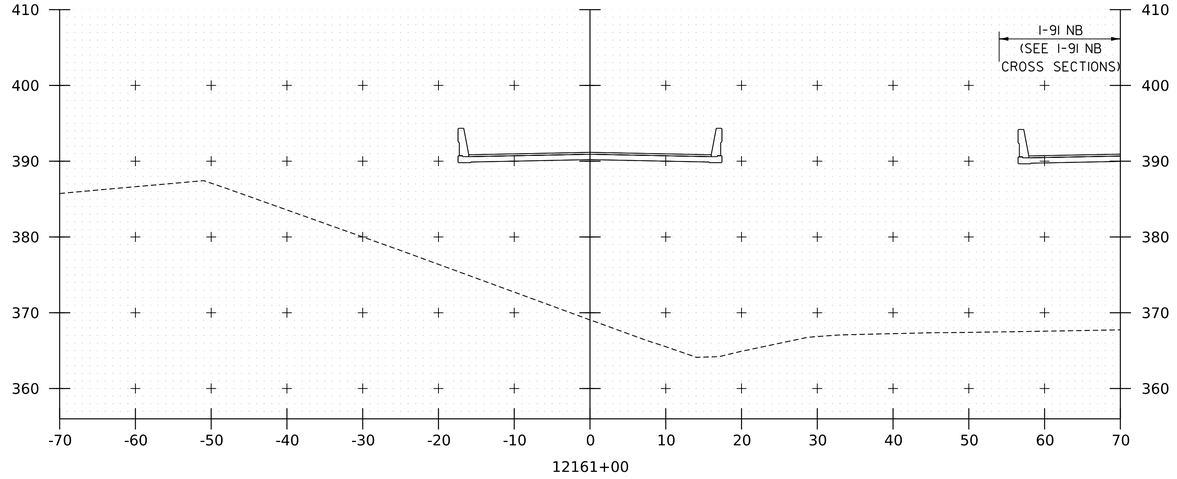
12159+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS I	SHEET 233 OF 395

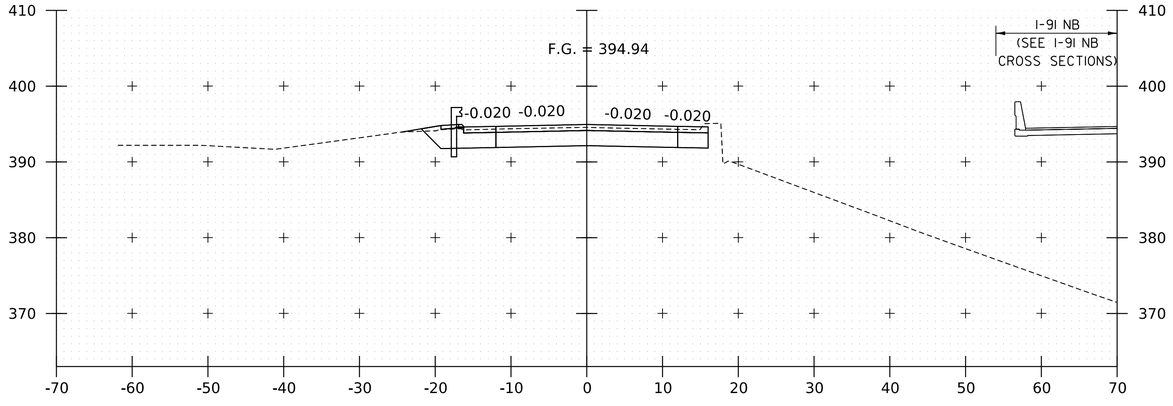
HNTB



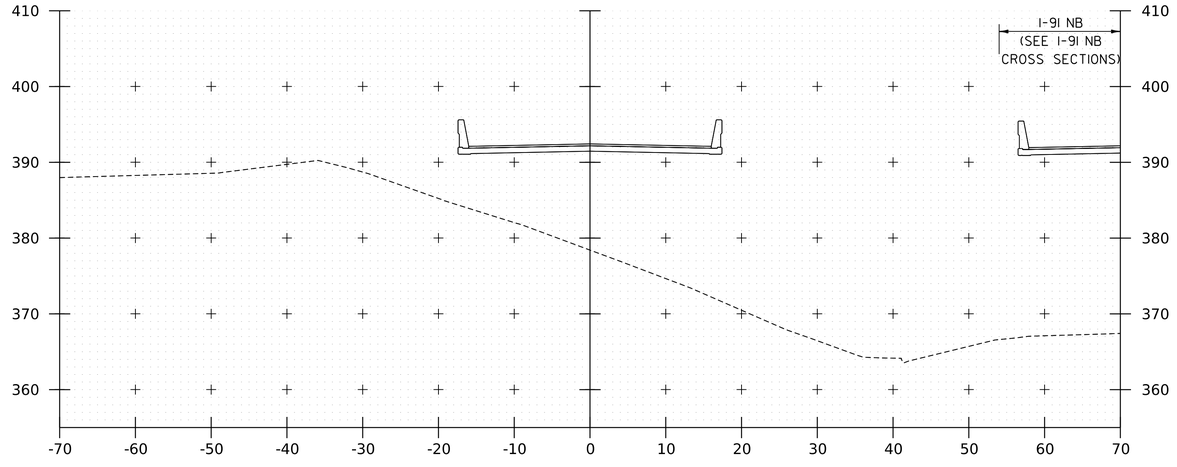
12160+50



12161+00



12160+25
BEGIN BRIDGE 25S
STA. 12160+45.17

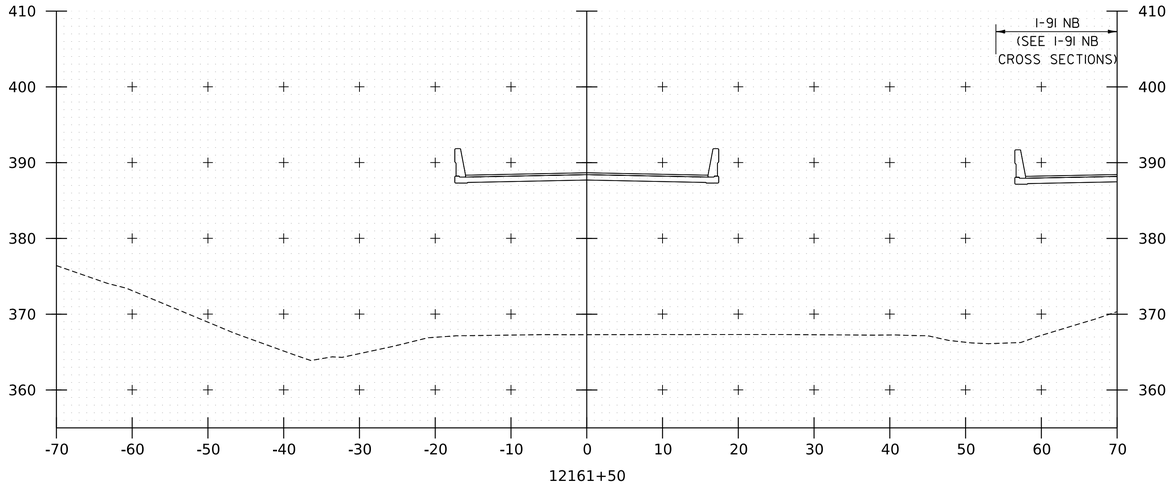


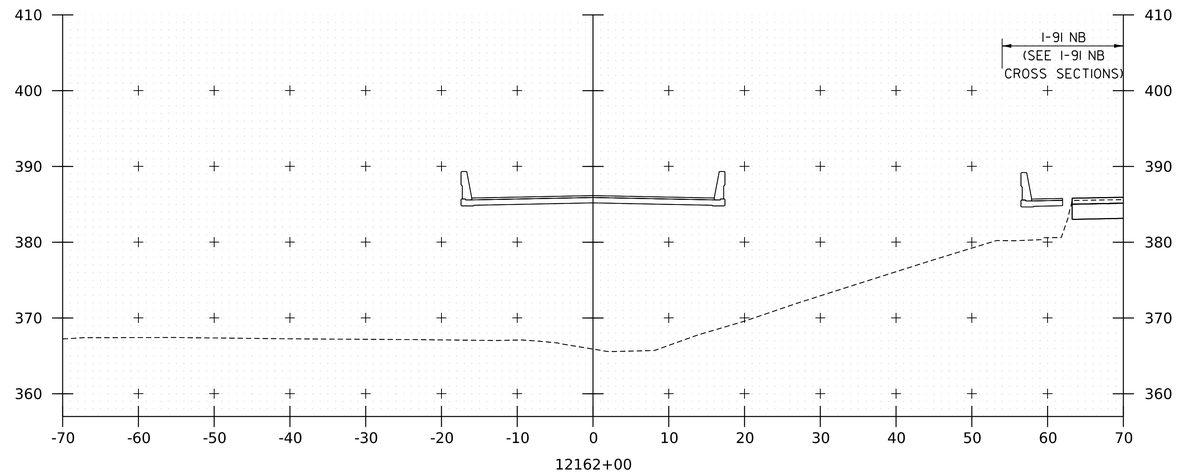
12160+75

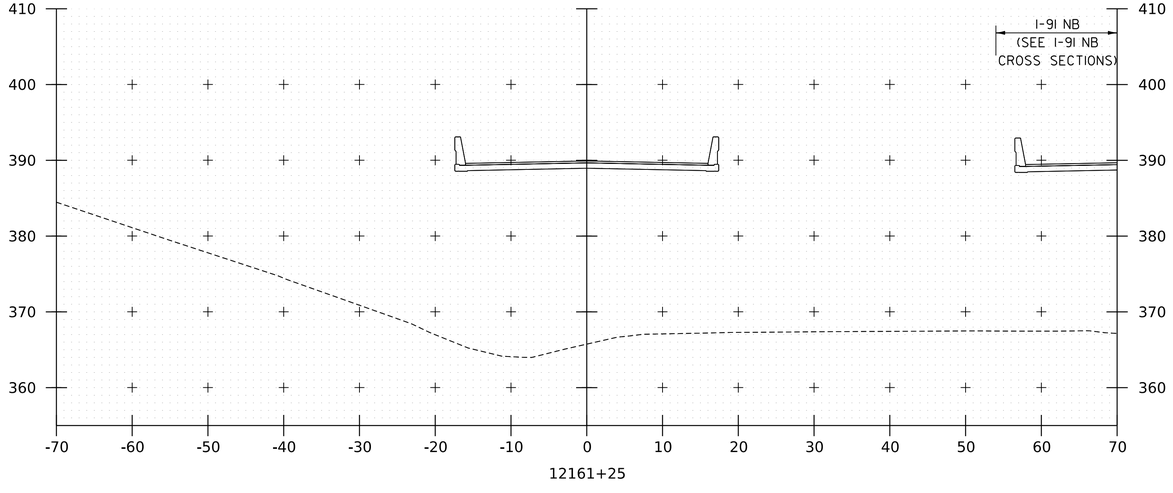
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

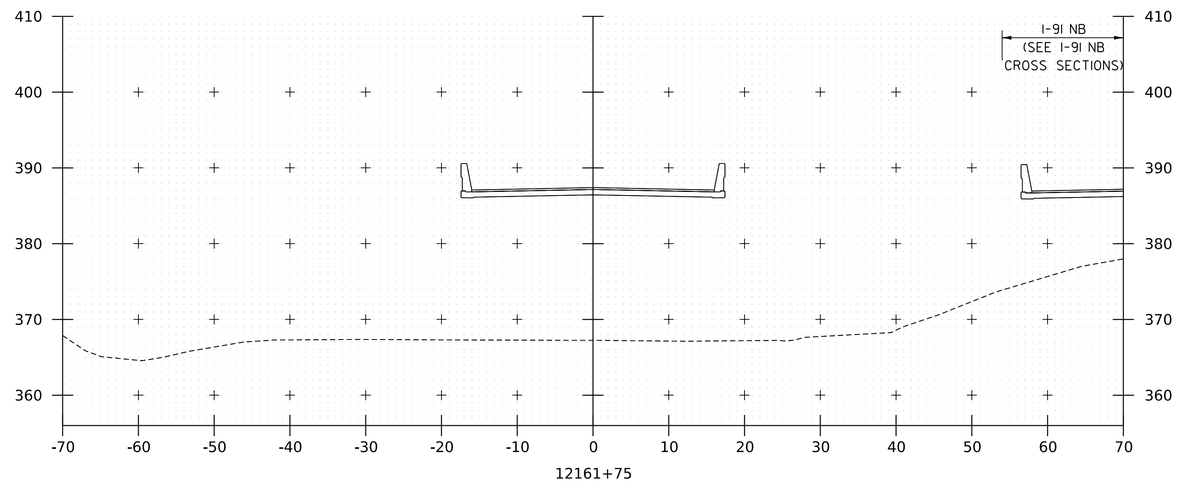
HNTB

FILE NAME: z12a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 2	SHEET 234 OF 395





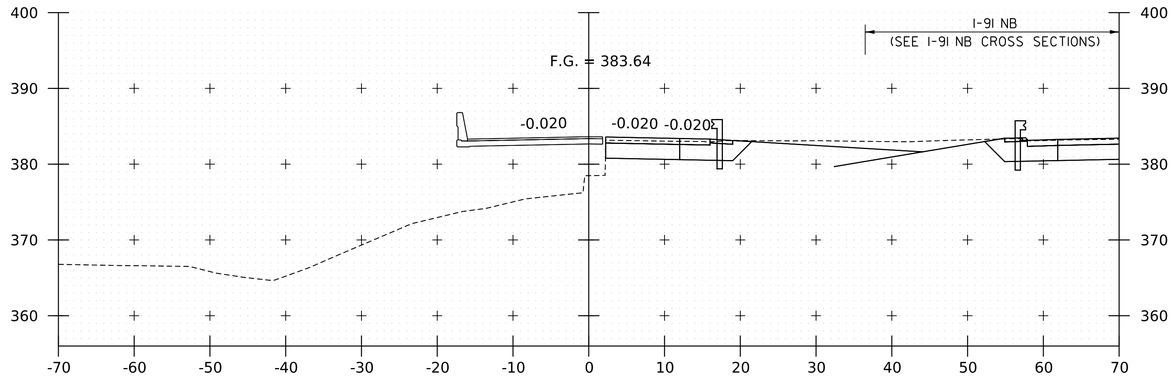




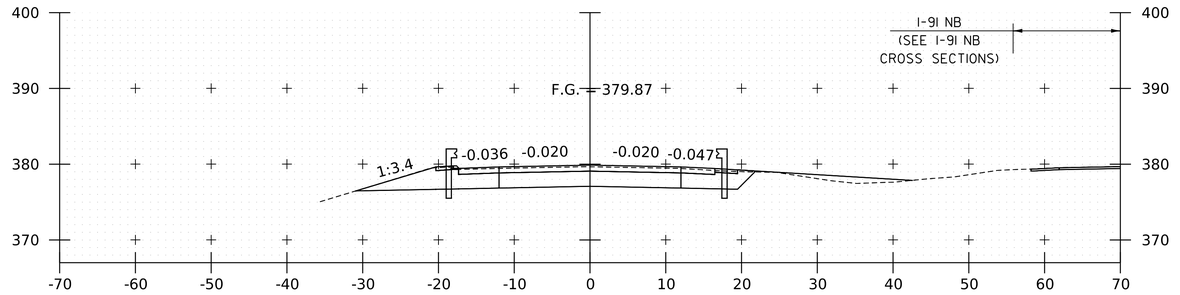
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 3	SHEET 235 OF 395

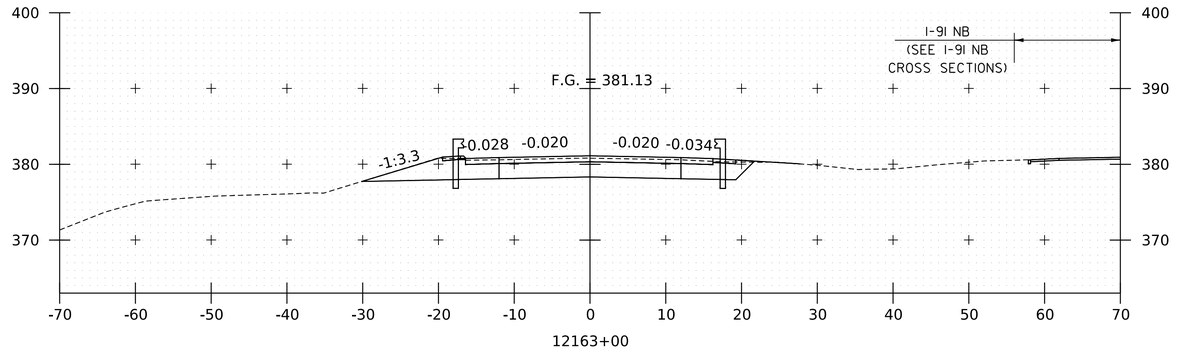
HNTB



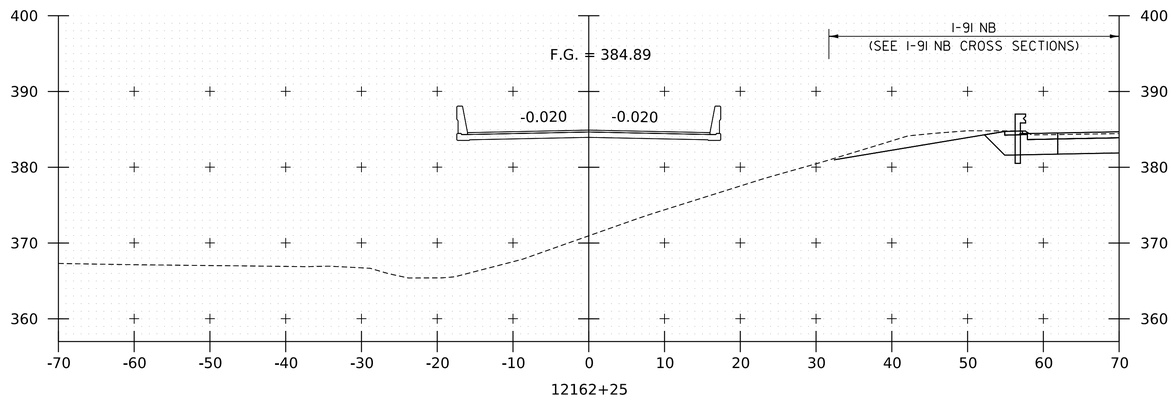
12162+50
END BRIDGE 25S
STA. 12162+51.83



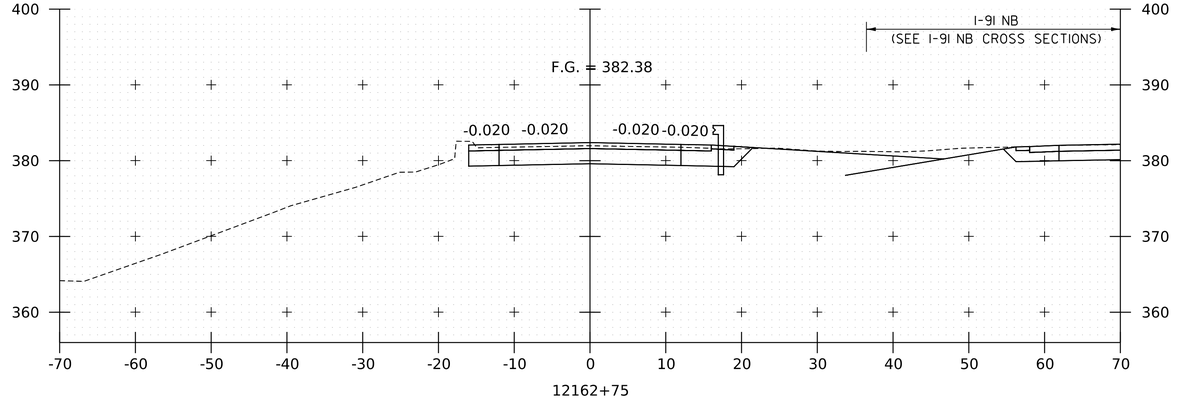
12163+25
STOP SOUTHBOUND PROJECT



12163+00



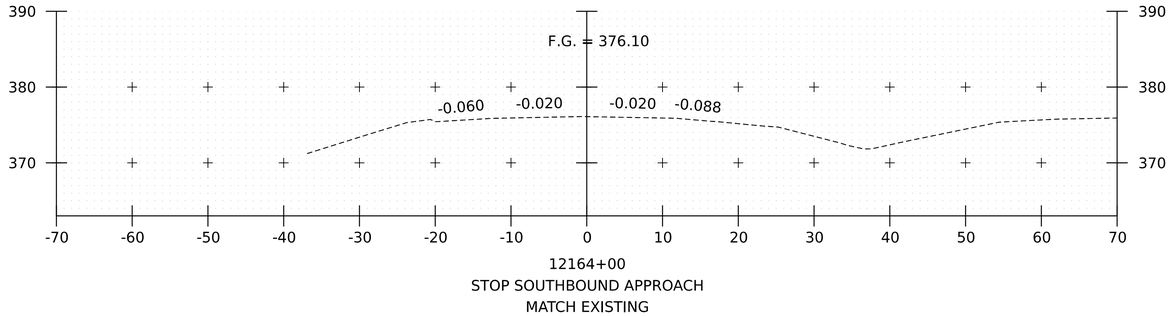
12162+25



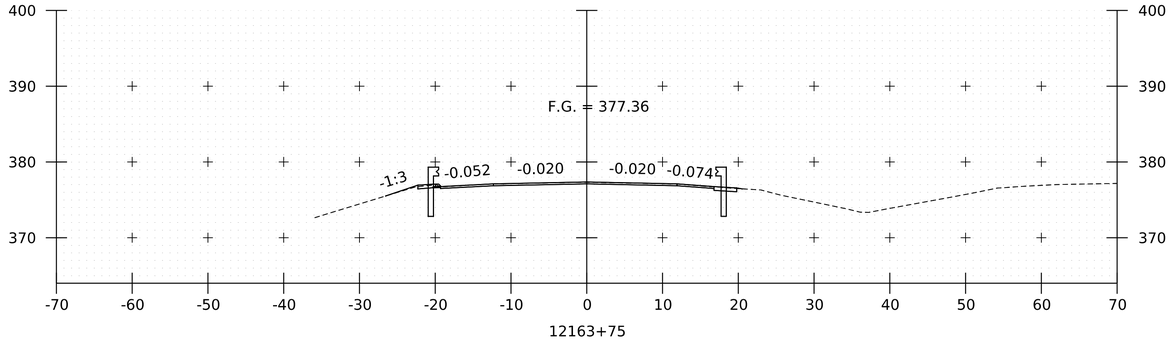
12162+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 4	SHEET 236 OF 395

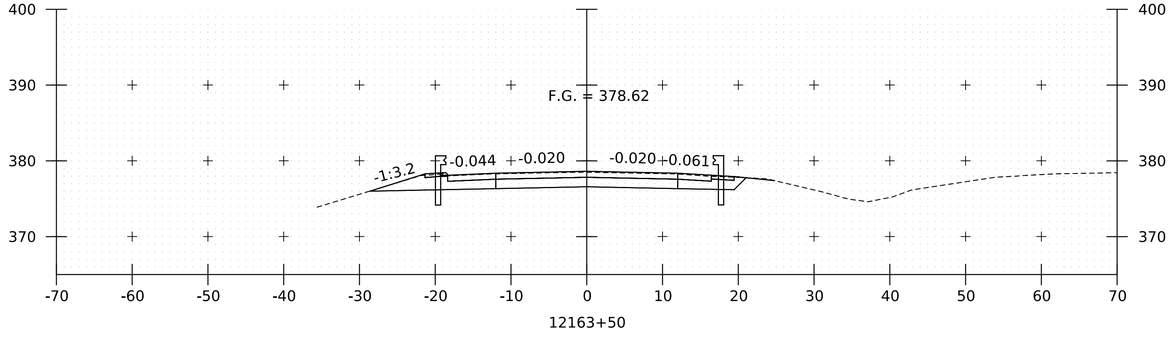
HNTB



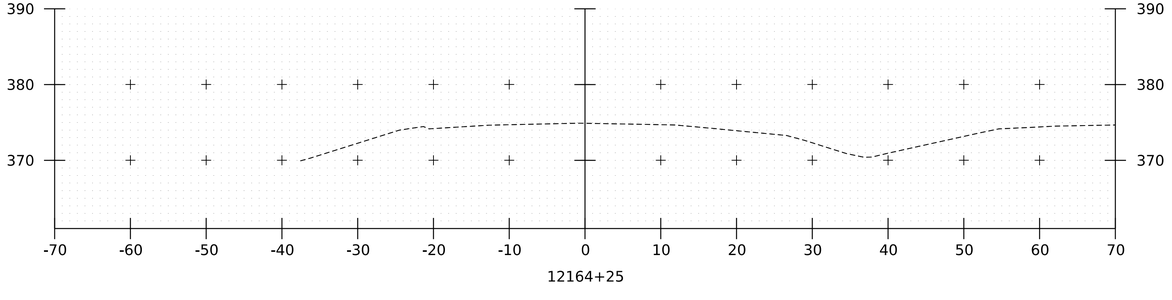
12164+00
STOP SOUTHBOUND APPROACH
MATCH EXISTING



12163+75



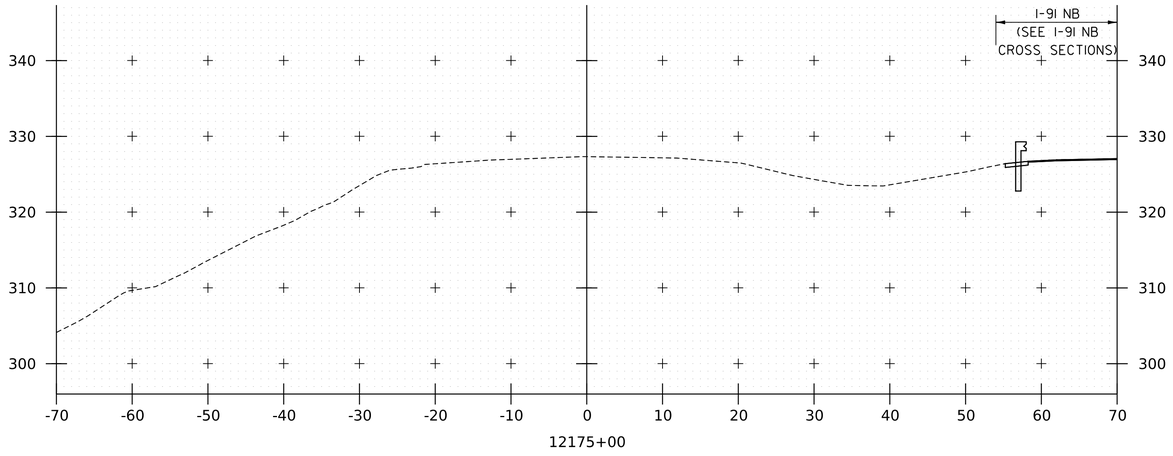
12163+50

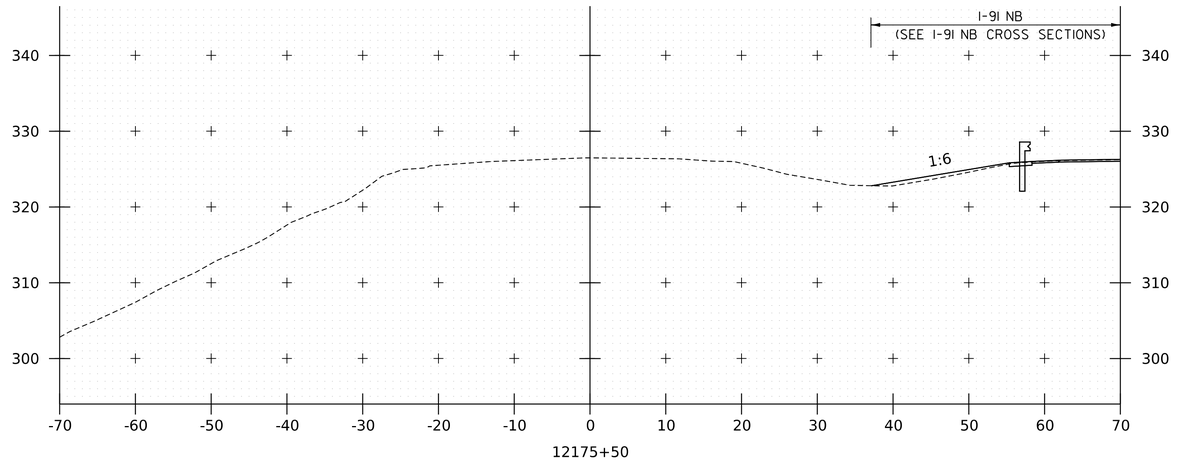


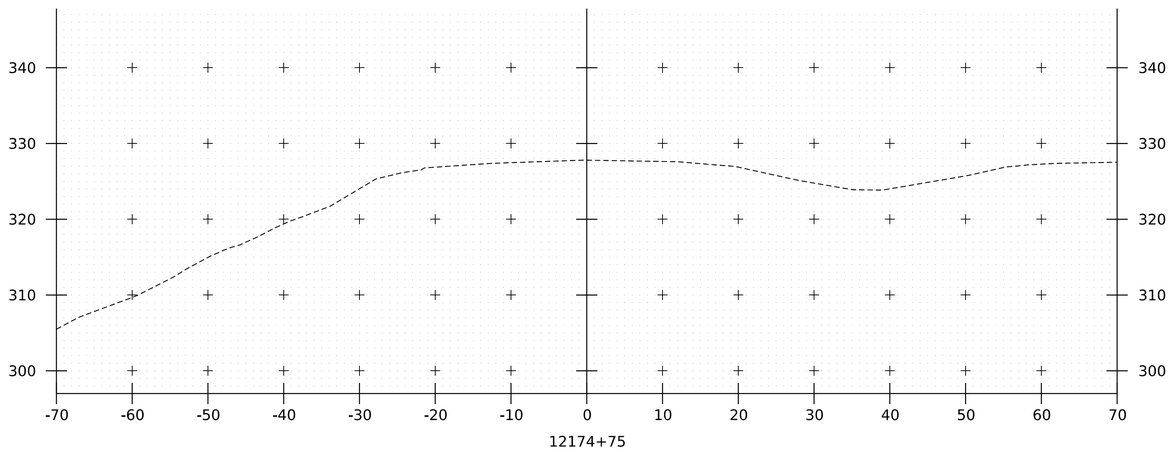
12164+25

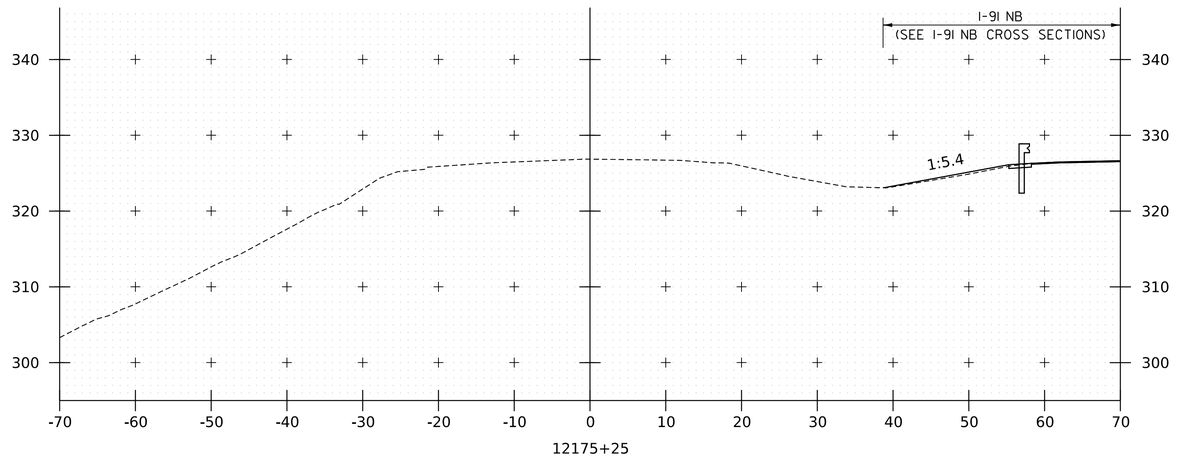
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 5	SHEET 237 OF 395

HNTB



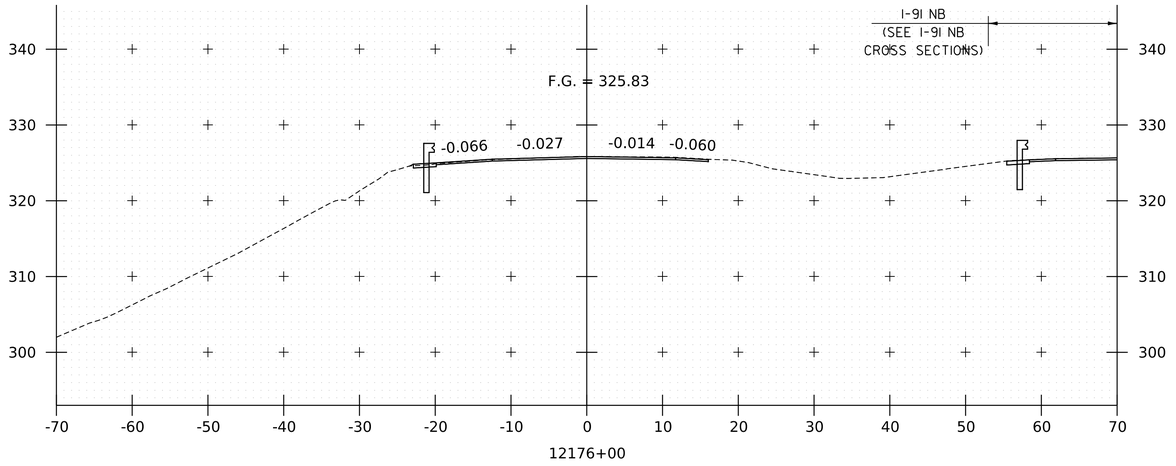




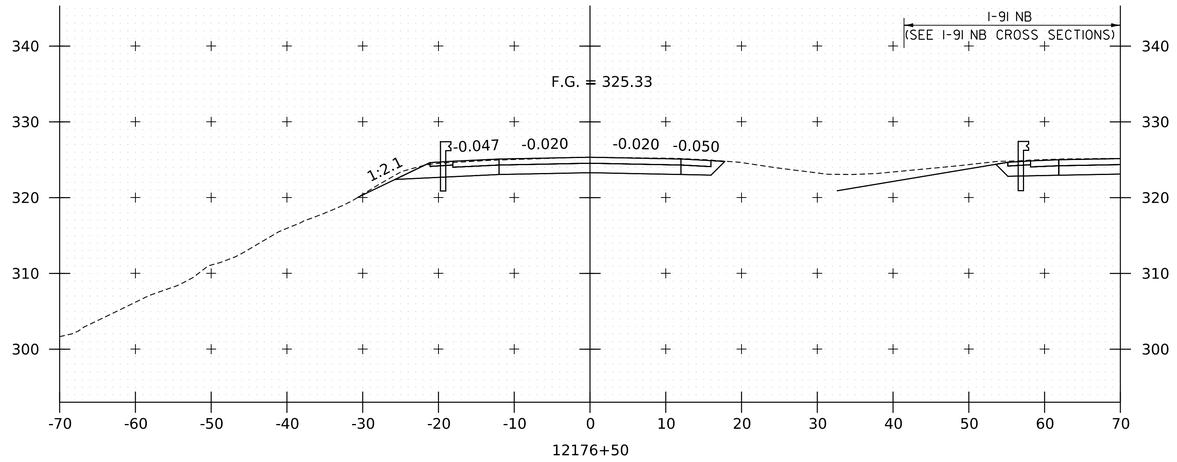


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 6	SHEET 238 OF 395

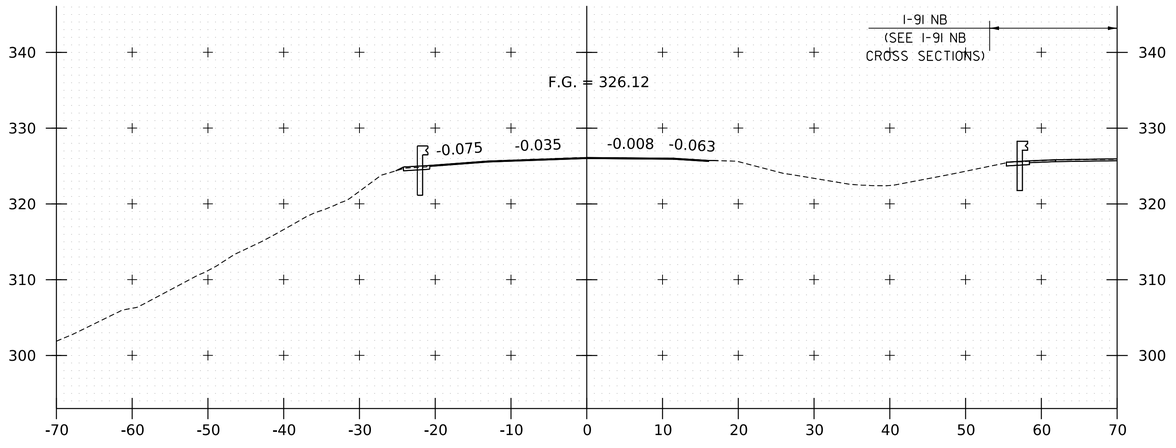
HNTB



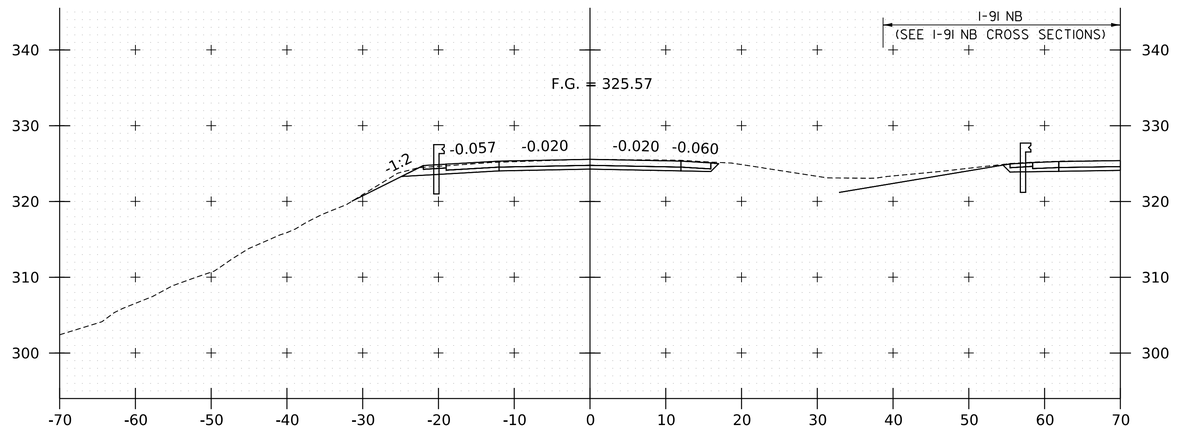
12176+00



12176+50



12175+75
RESUME SOUTHBOUND APPROACH
MATCH EXISTING

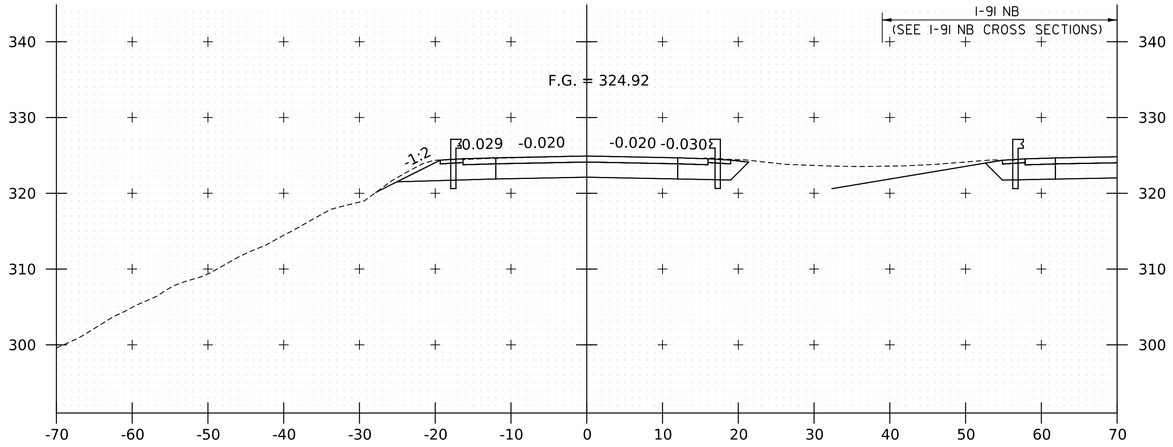


12176+25

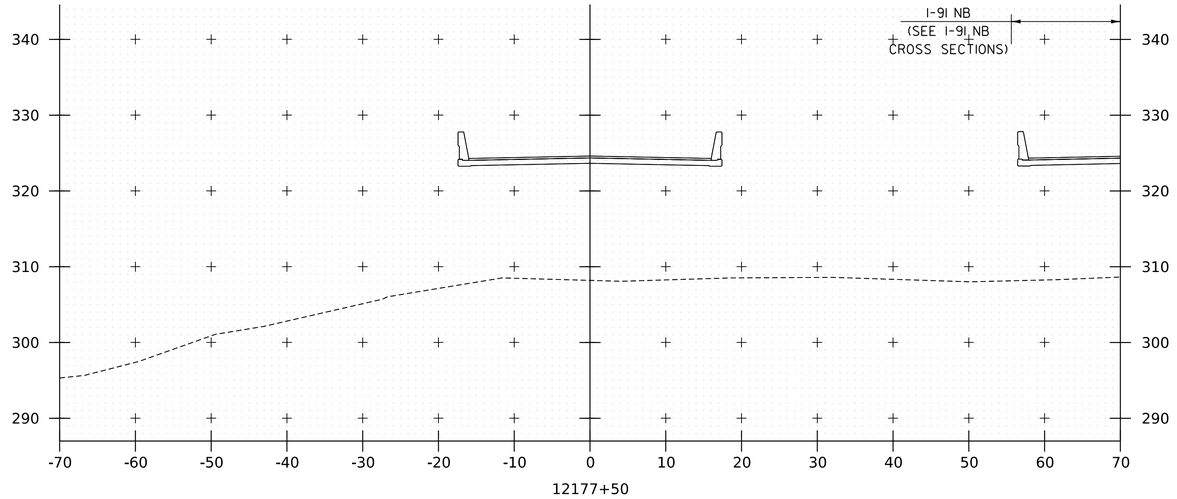
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 7

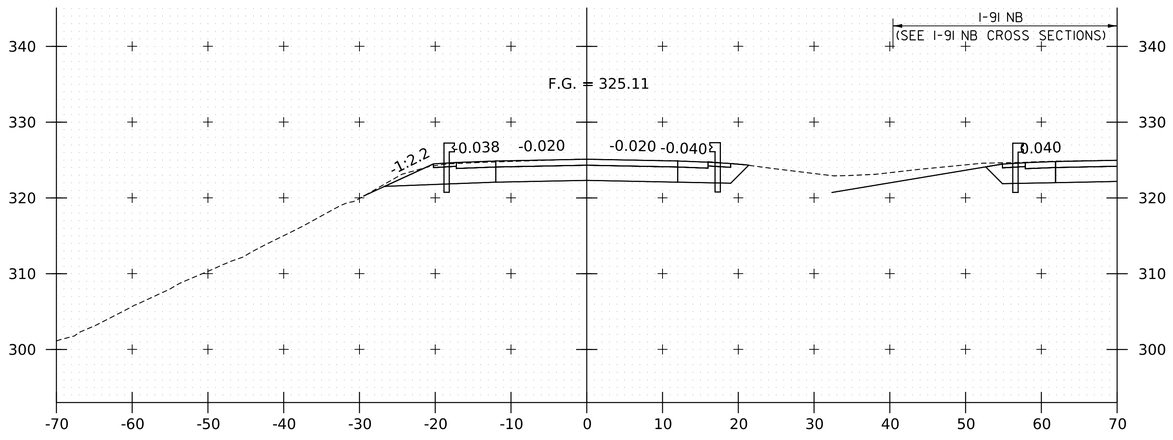
PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 239 OF 395



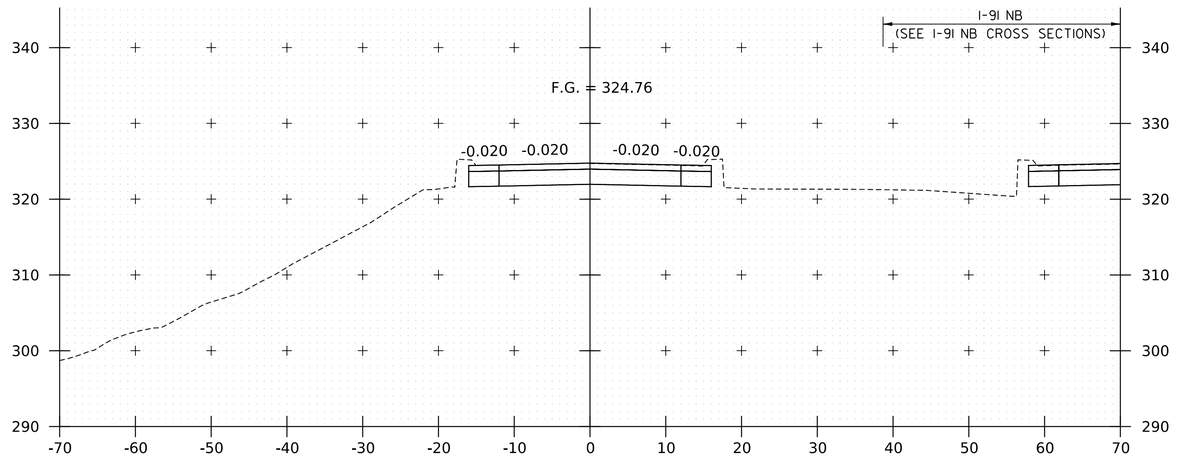
12177+00



12177+50



12176+75
RESUME SOUTHBOUND PROJECT

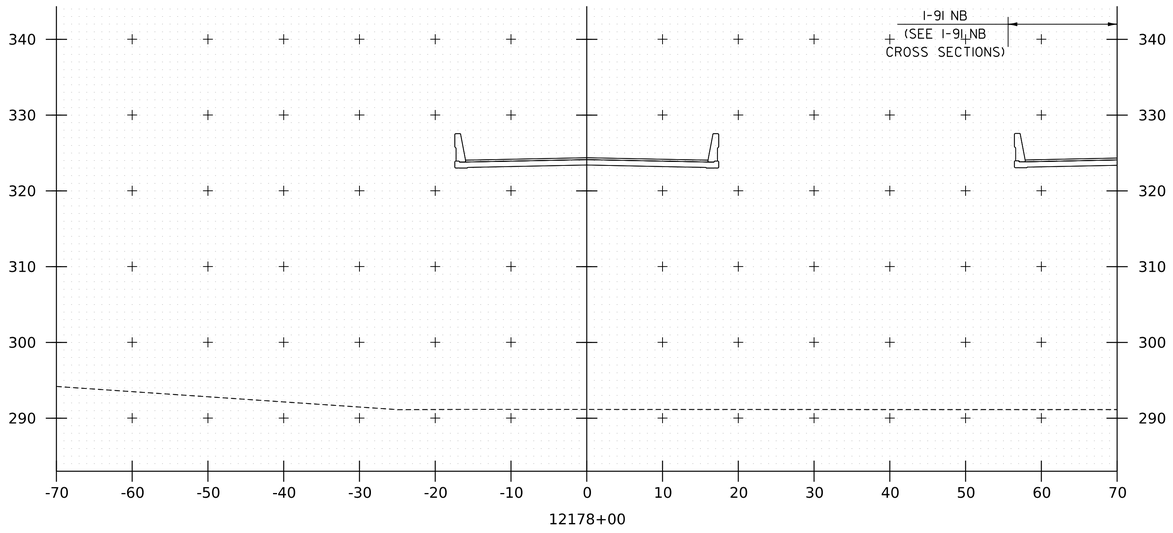


12177+25
BEGIN BRIDGE 26S
STA. 12177+29.92

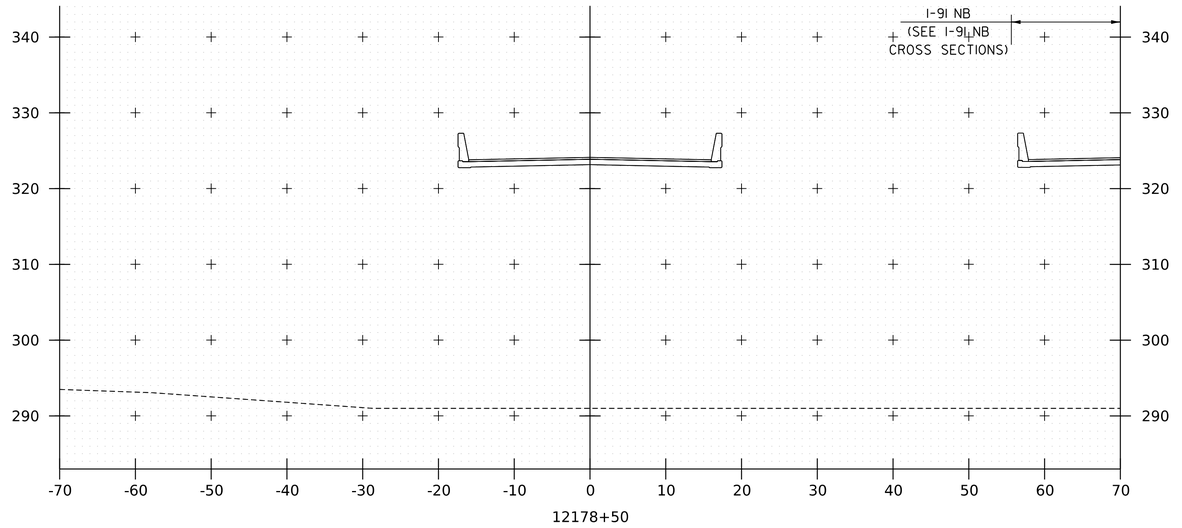
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 8

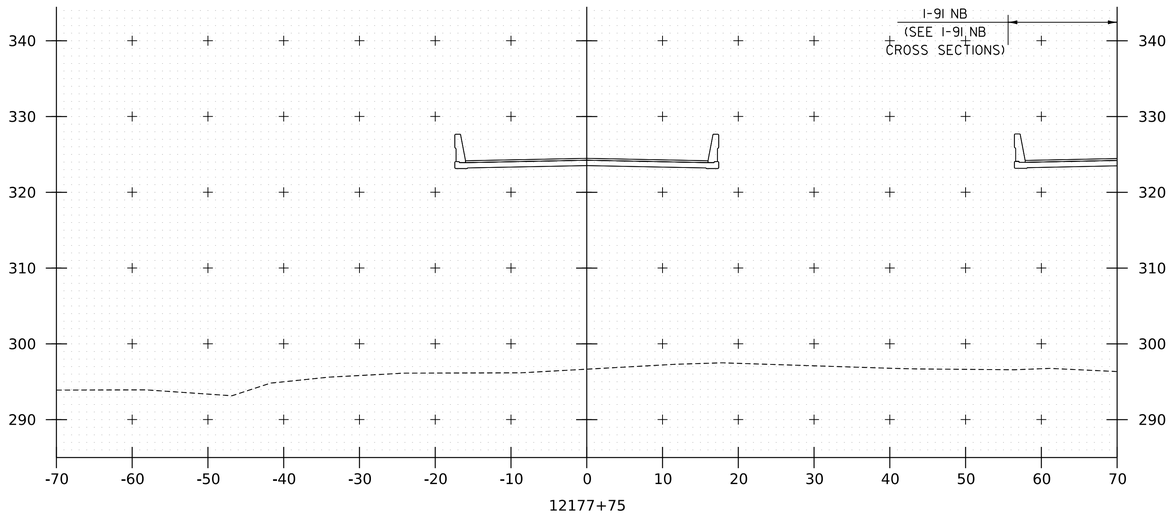
PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 240 OF 395



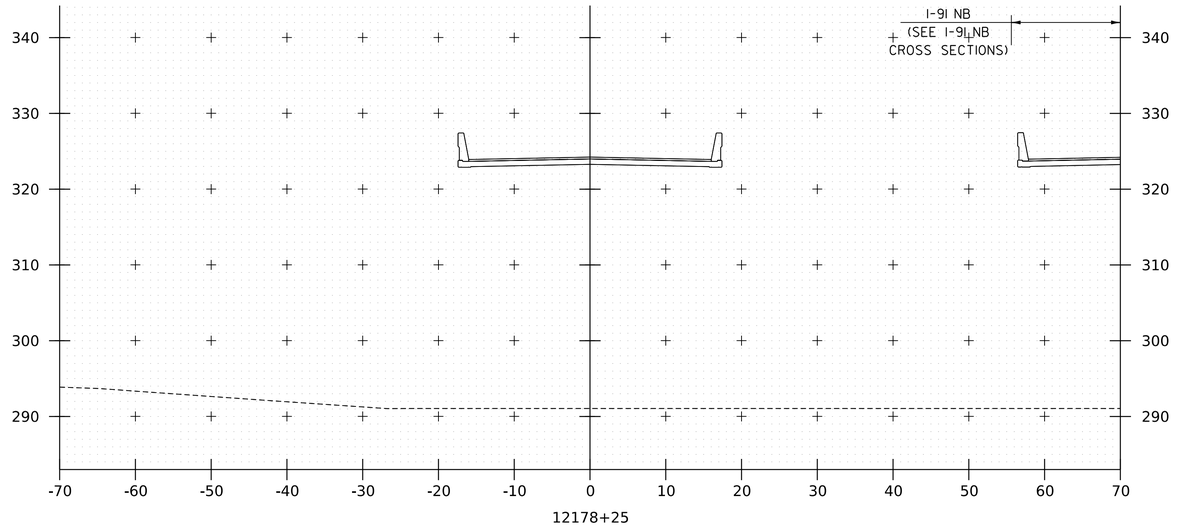
12178+00



12178+50



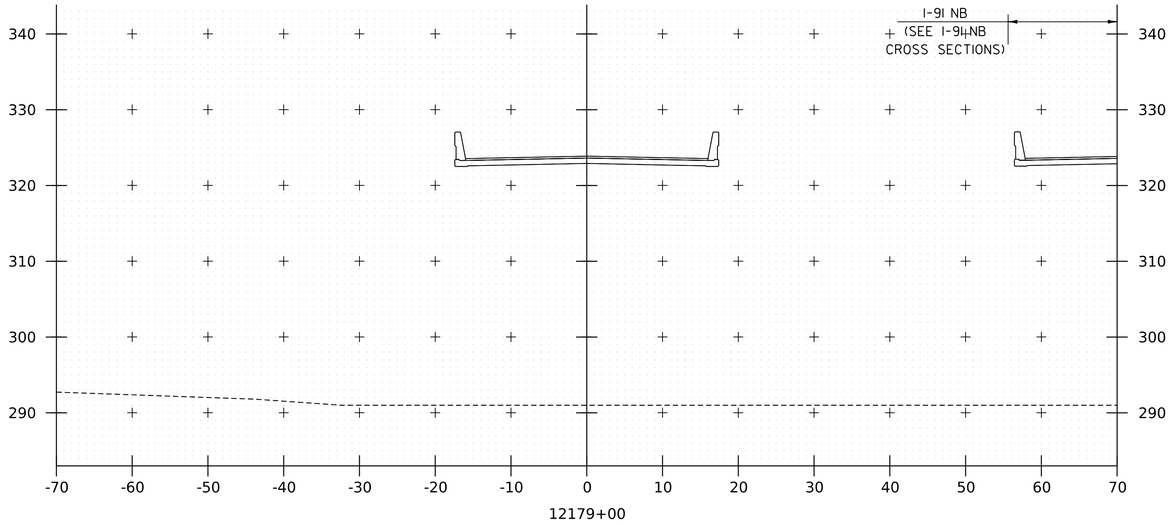
12177+75



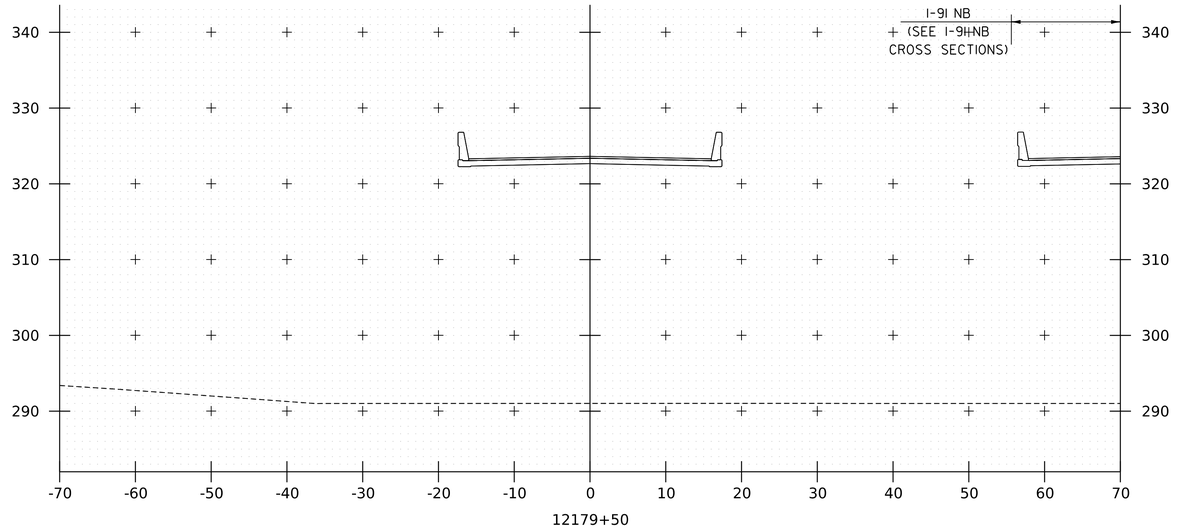
12178+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 9	SHEET 241 OF 395

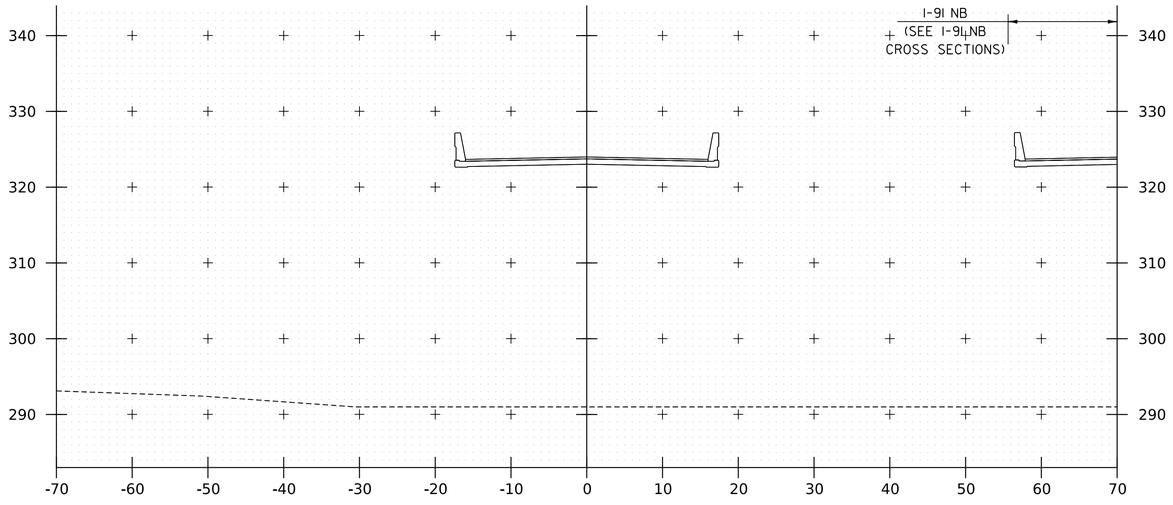
HNTB



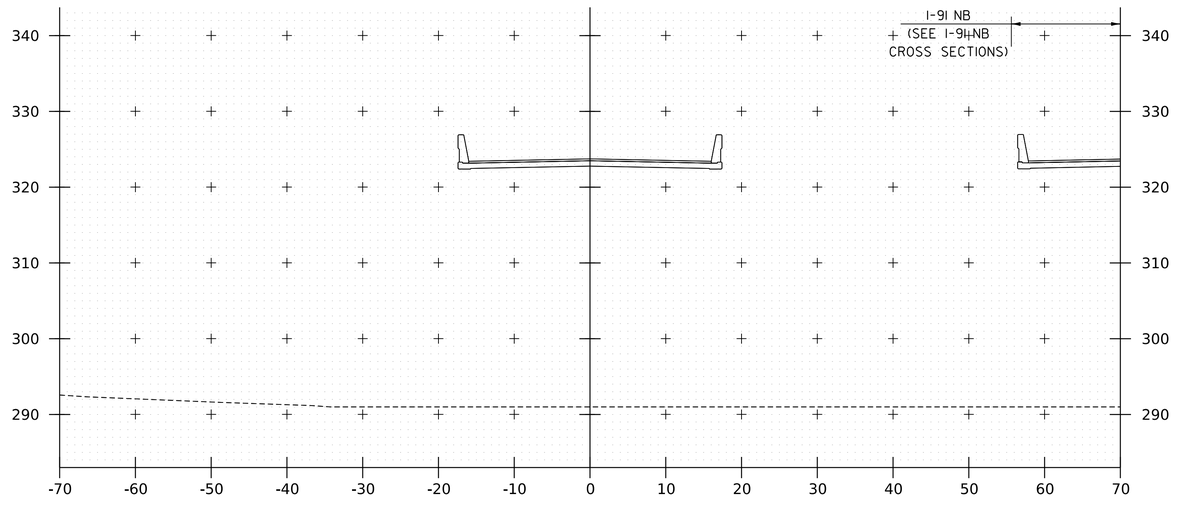
12179+00



12179+50



12178+75



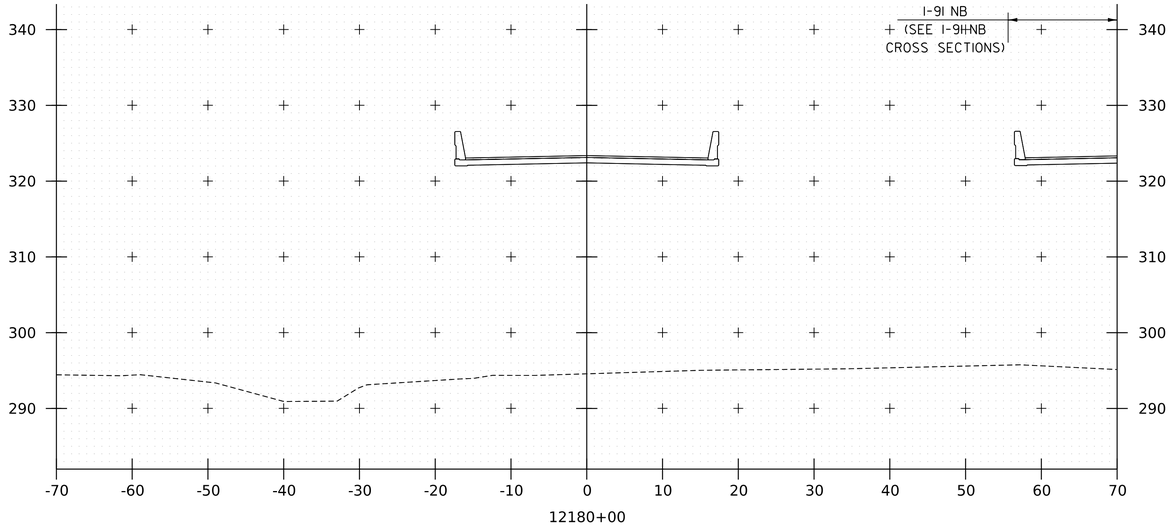
12179+25

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

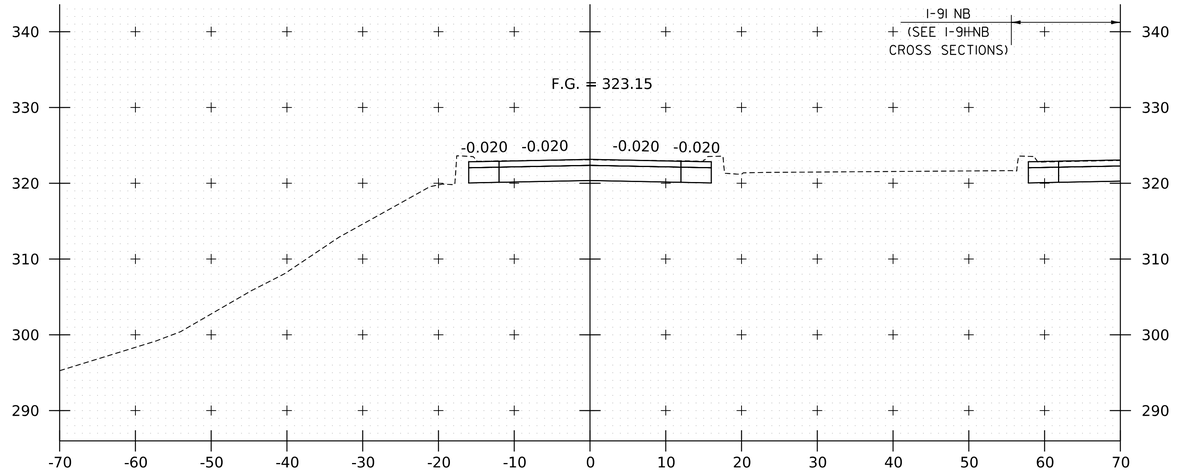
FILE NAME: zl2a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 10

PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: J. OLUND
SHEET 242 OF 395

HNTB



12180+00



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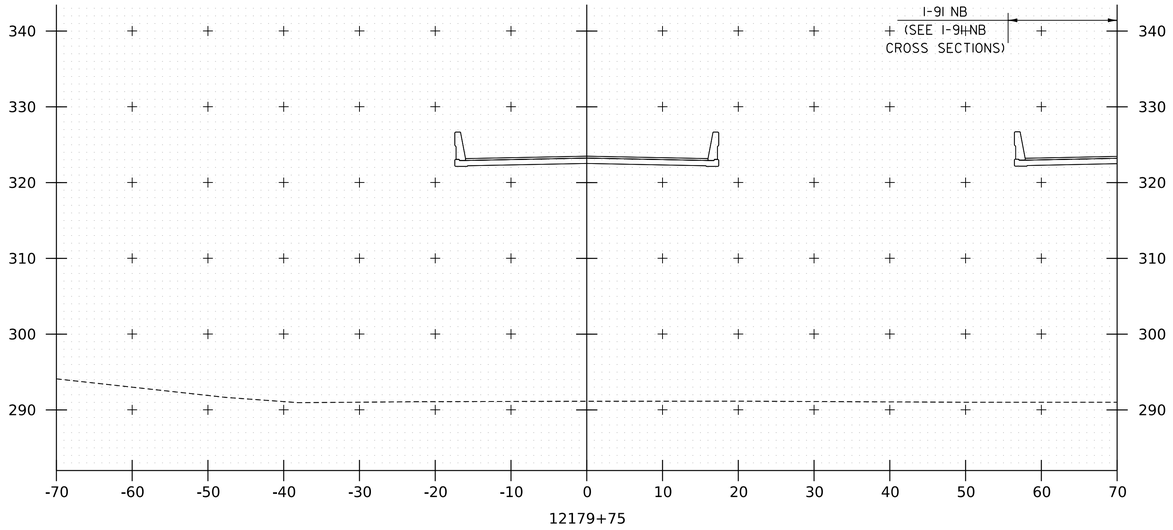
END BRIDGE 26S
STA. 12180+41.58



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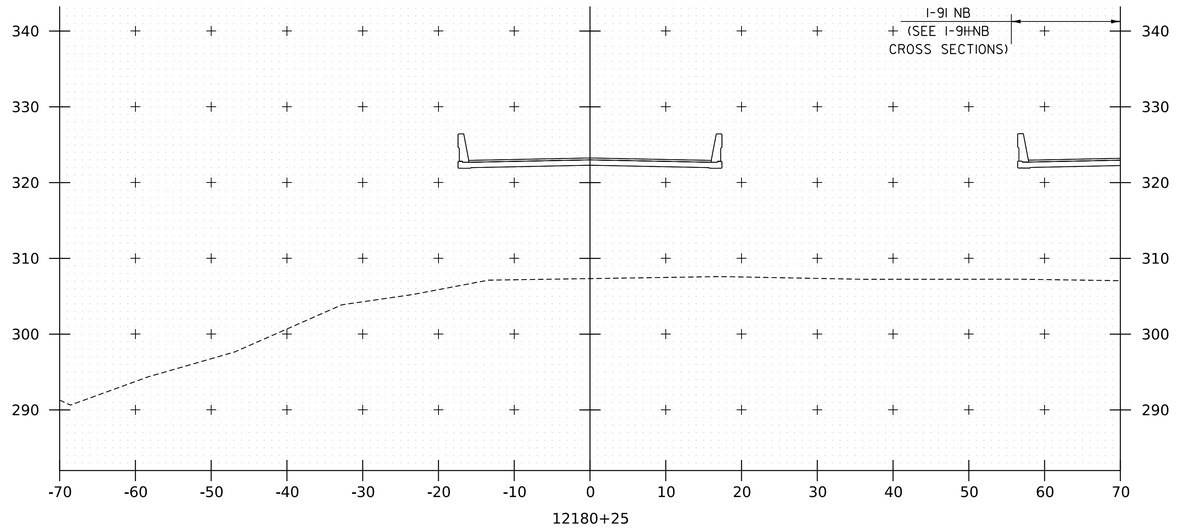
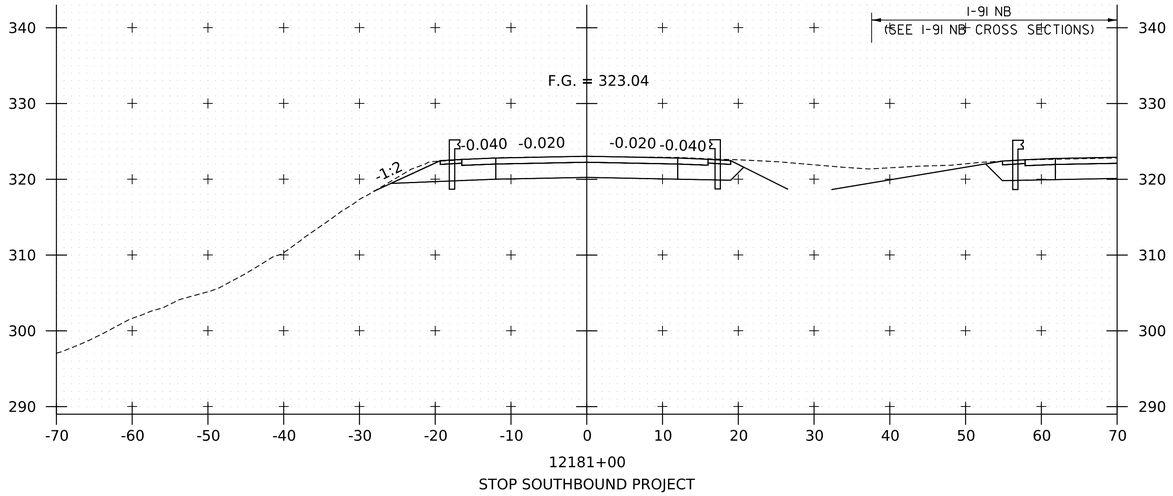


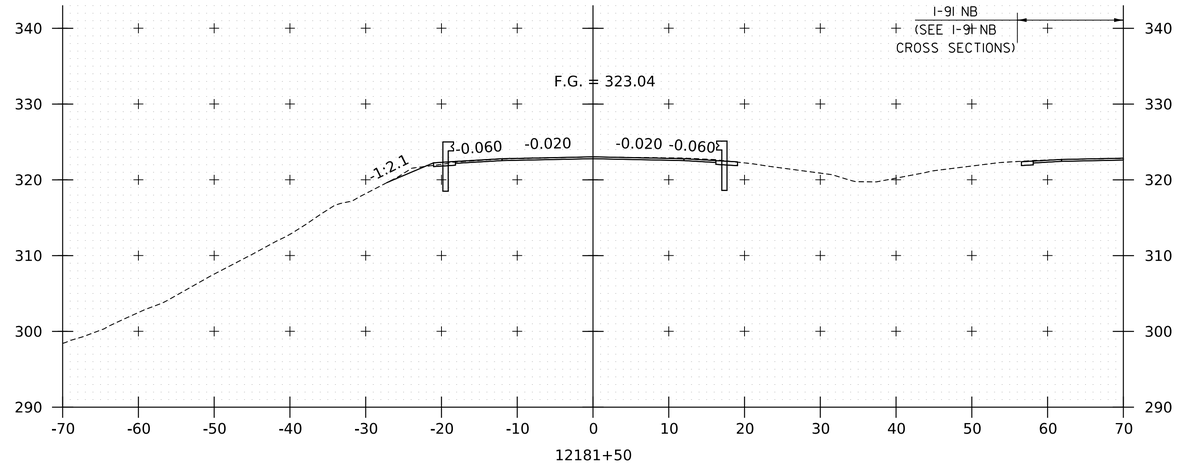
12180+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn•	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS II	SHEET 243 OF 395

HNTB



12181+00
STOP SOUTHBOUND PROJECT



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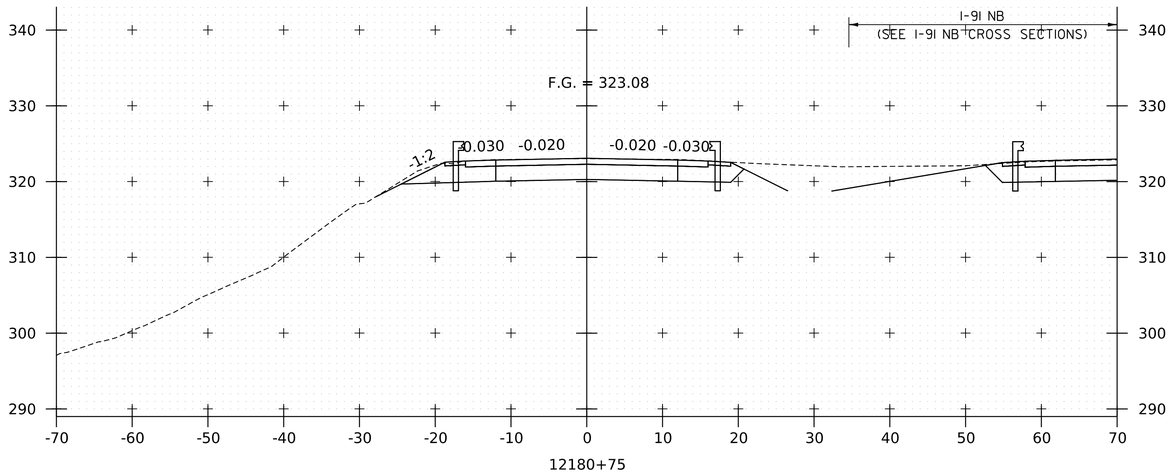
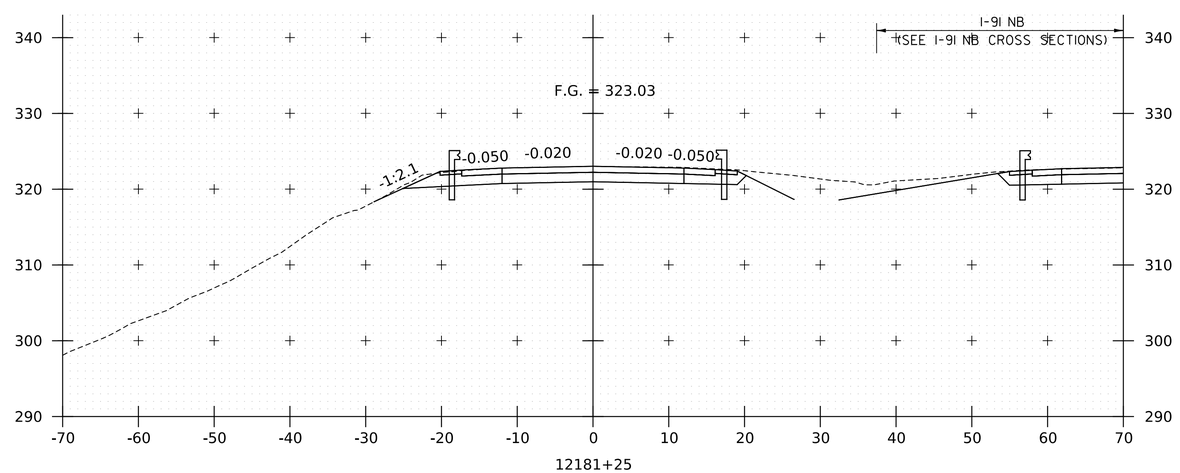


12180+75

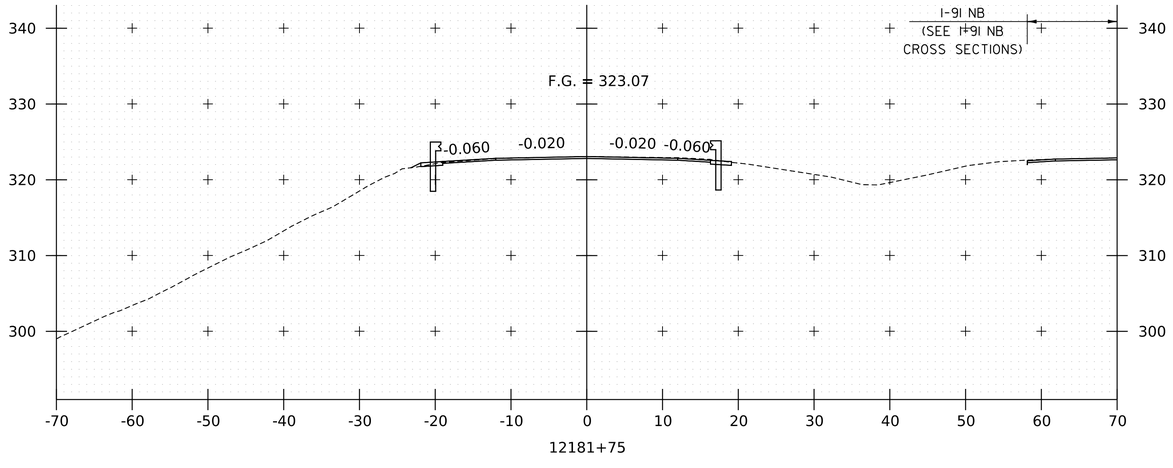


12181+25

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

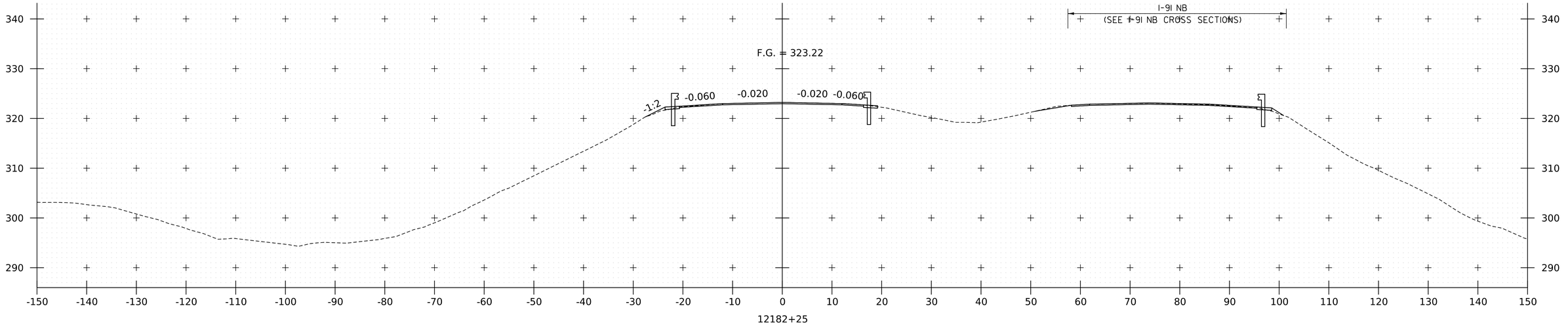
FILE NAME: zl2a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS I2

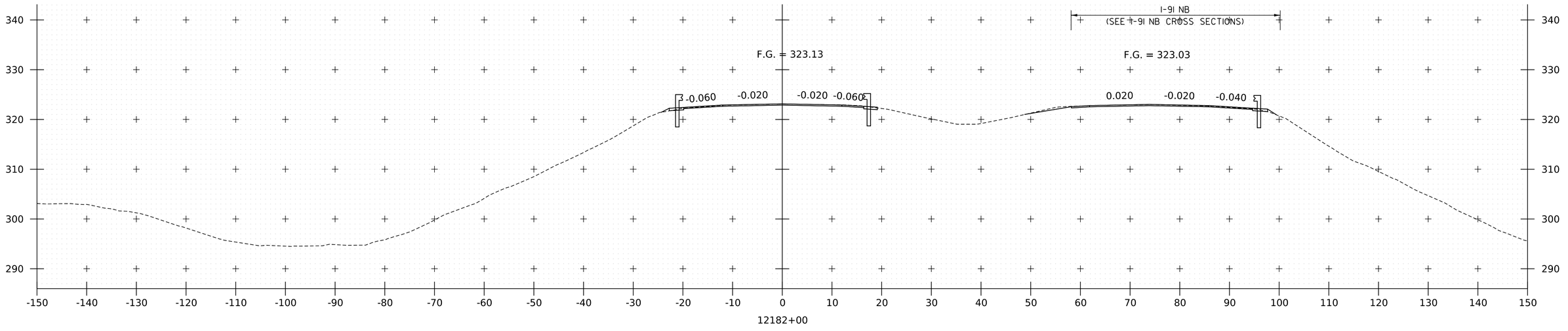
PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 244 OF 395



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 13	SHEET 245 OF 395

HNTB

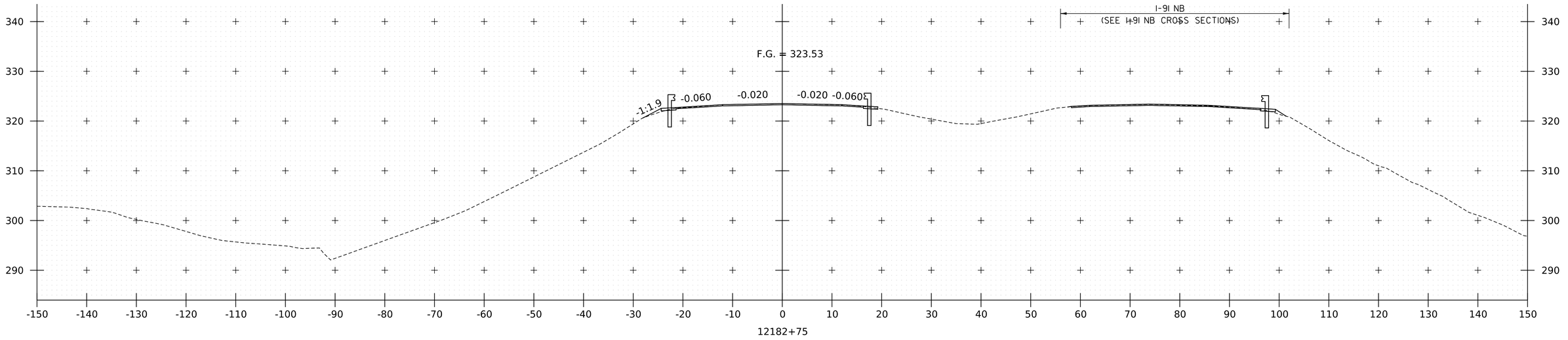


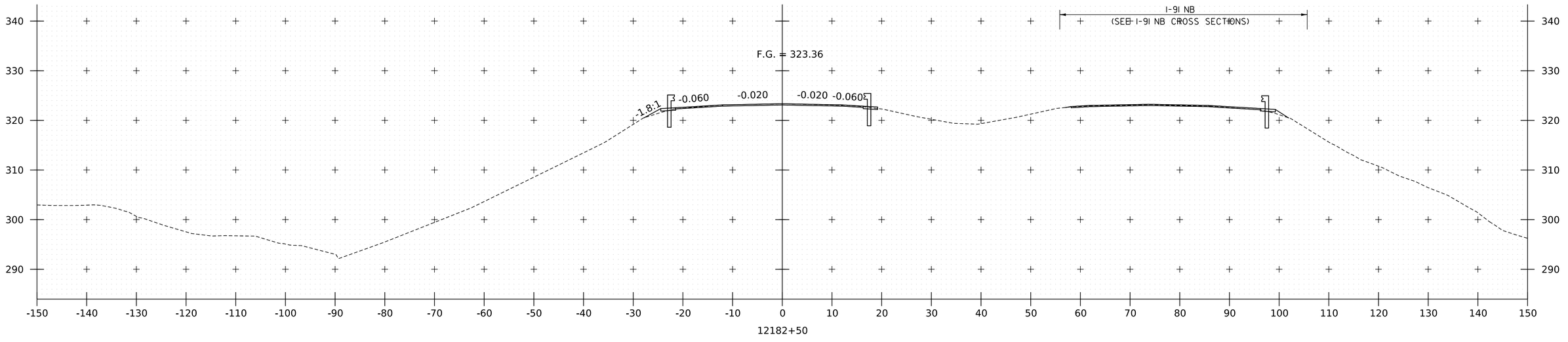


PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 14

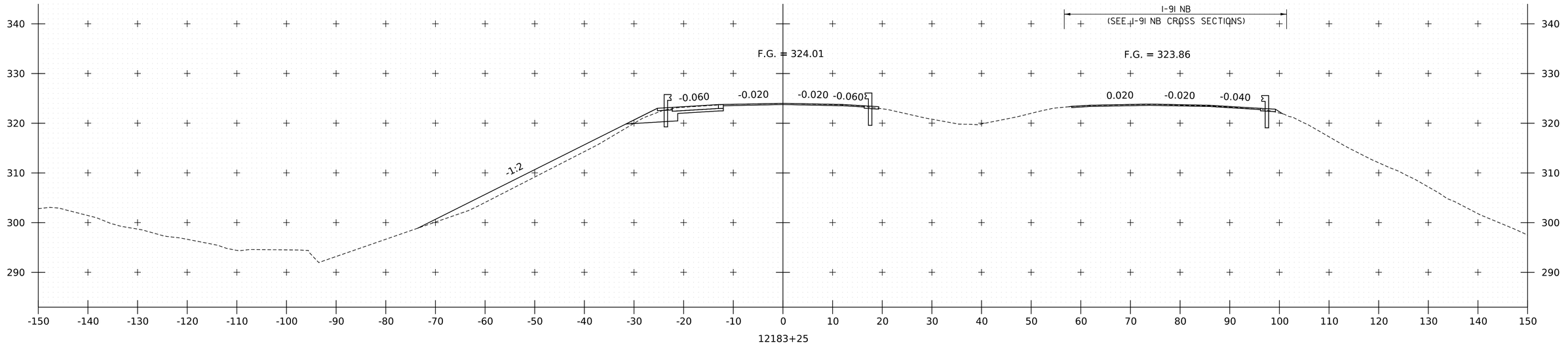
PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 246 OF 395

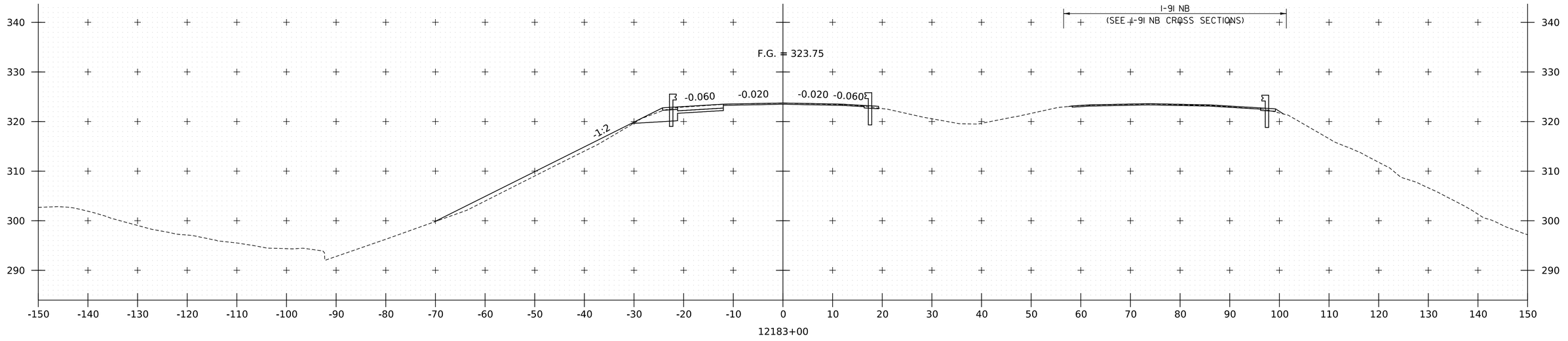




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 15	SHEET 247 OF 395

HNTB

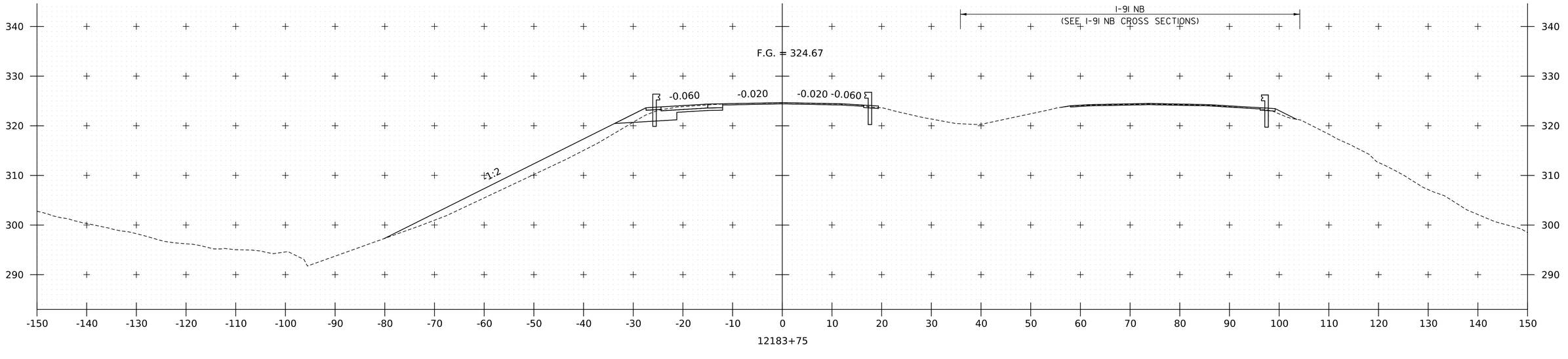


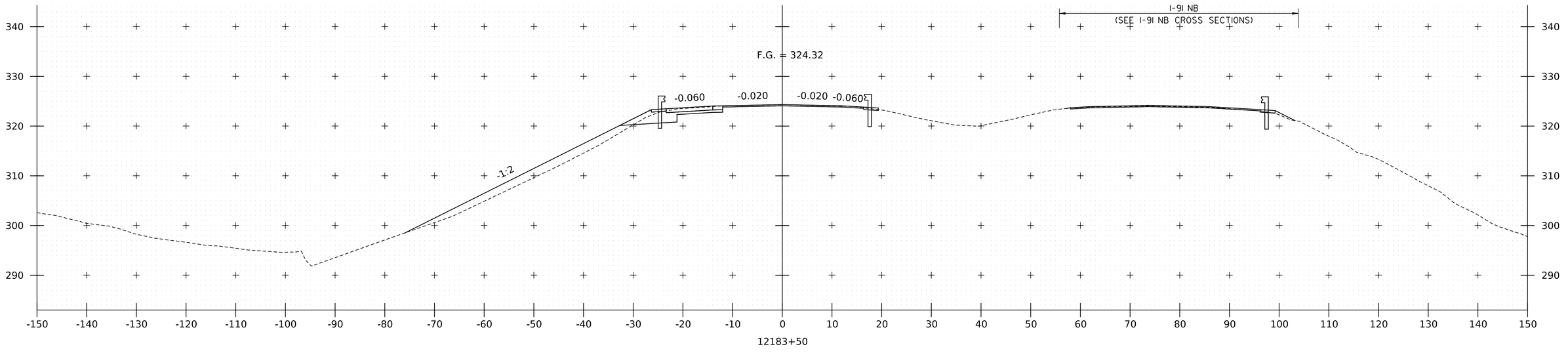


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 16	SHEET 248 OF 395

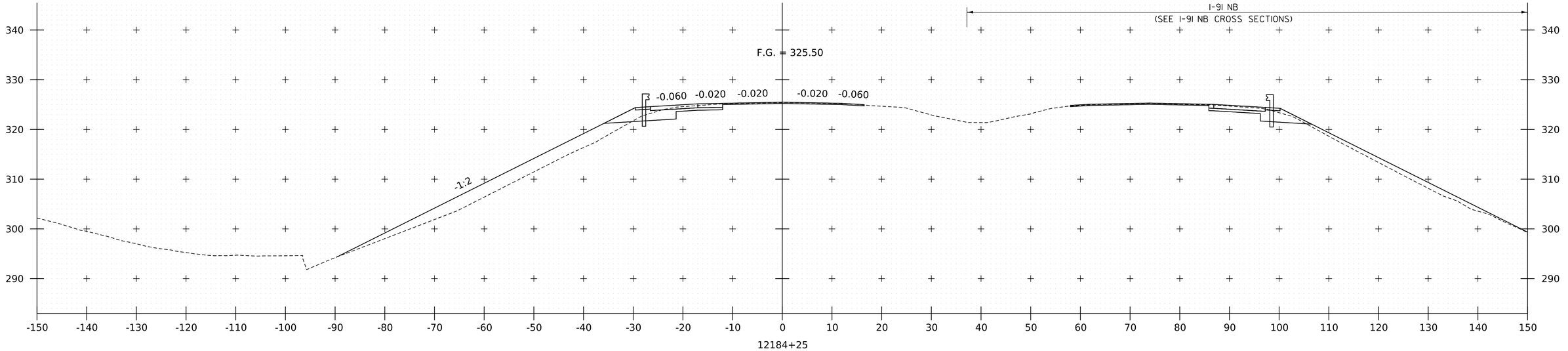
HNTB

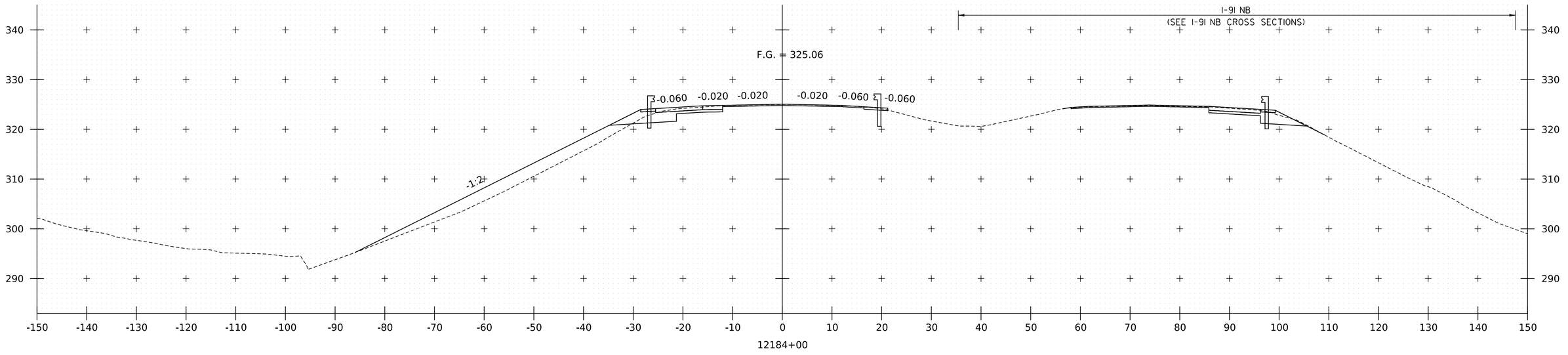




HNTB

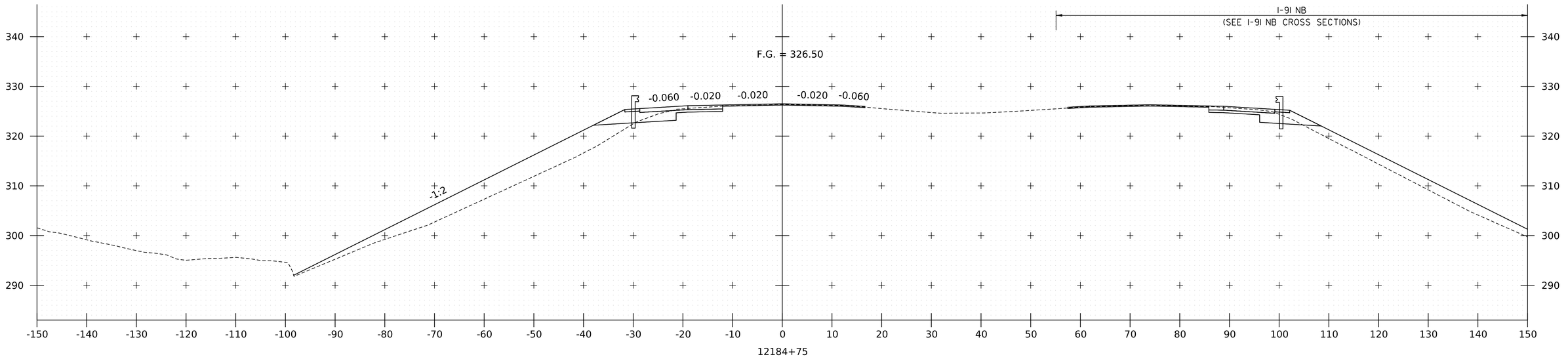
PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 17	SHEET 249 OF 395

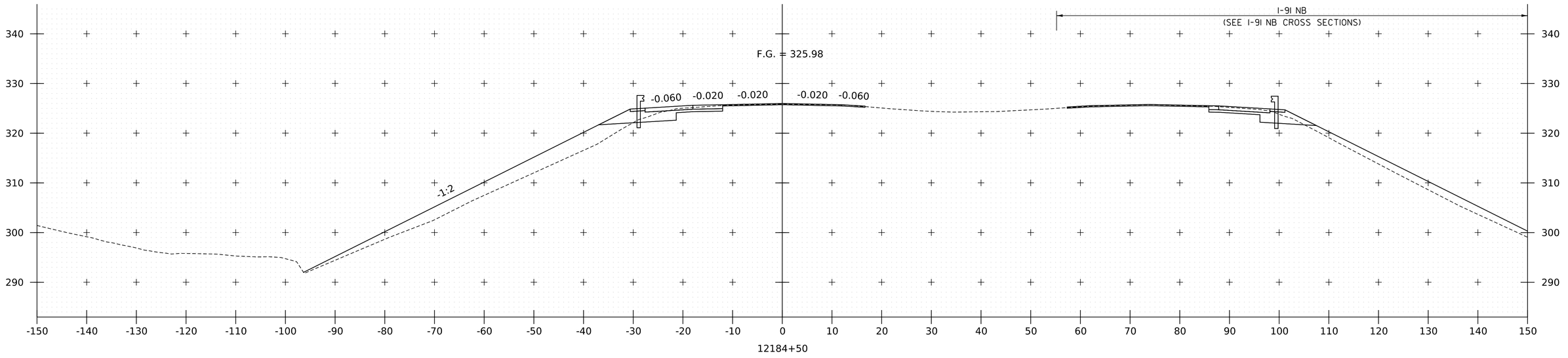




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 18	SHEET 250 OF 395

HNTB



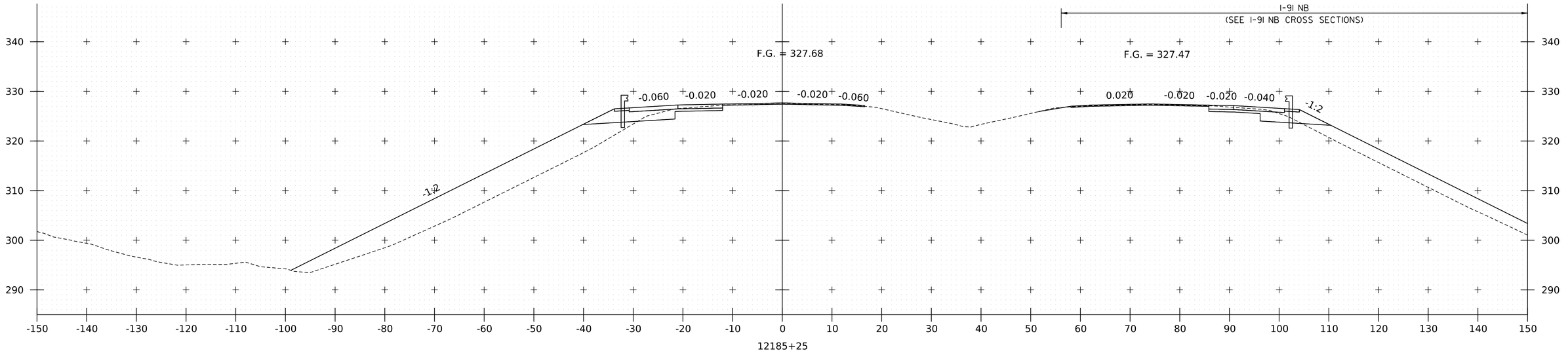


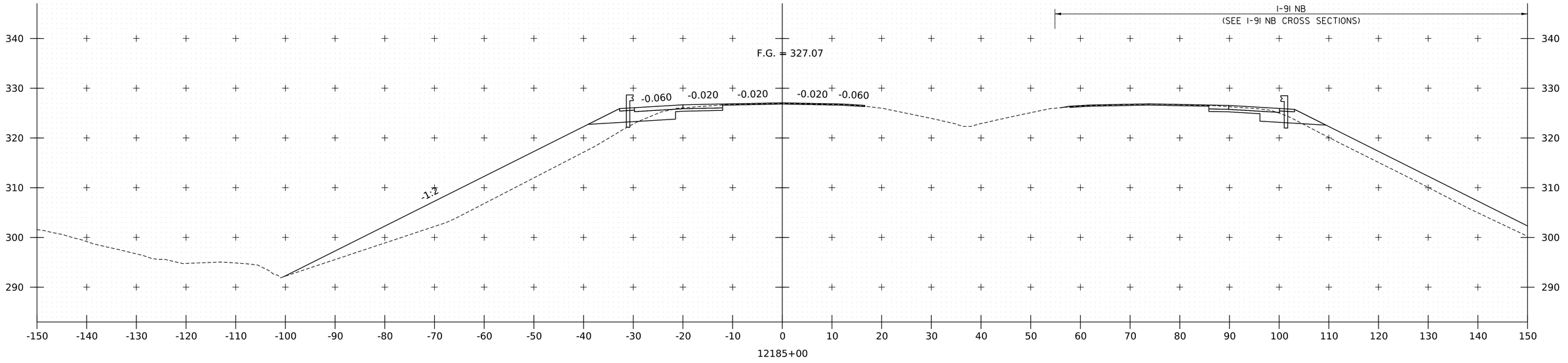
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 19

PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 251 OF 395

HNTB



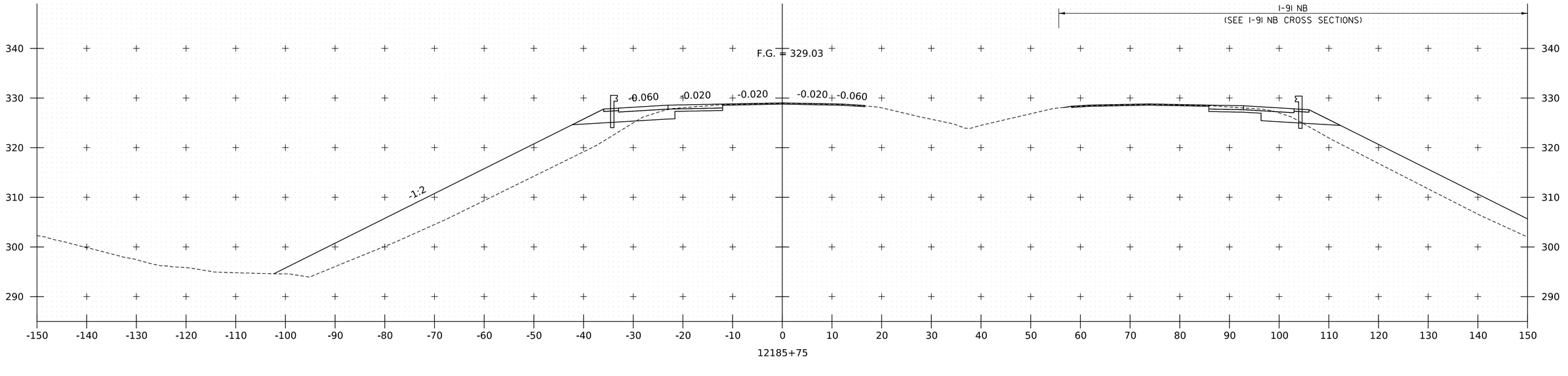


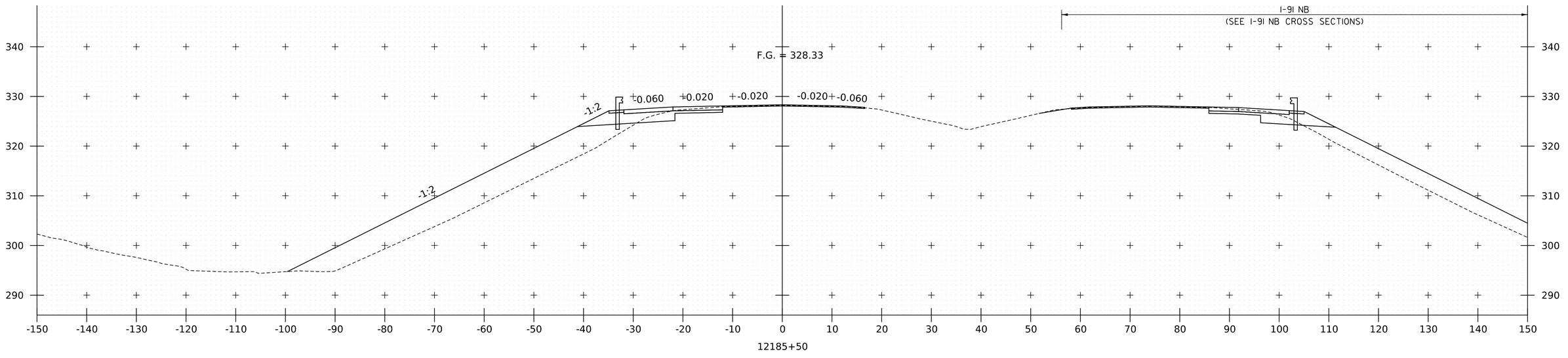
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 20

PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 252 OF 395

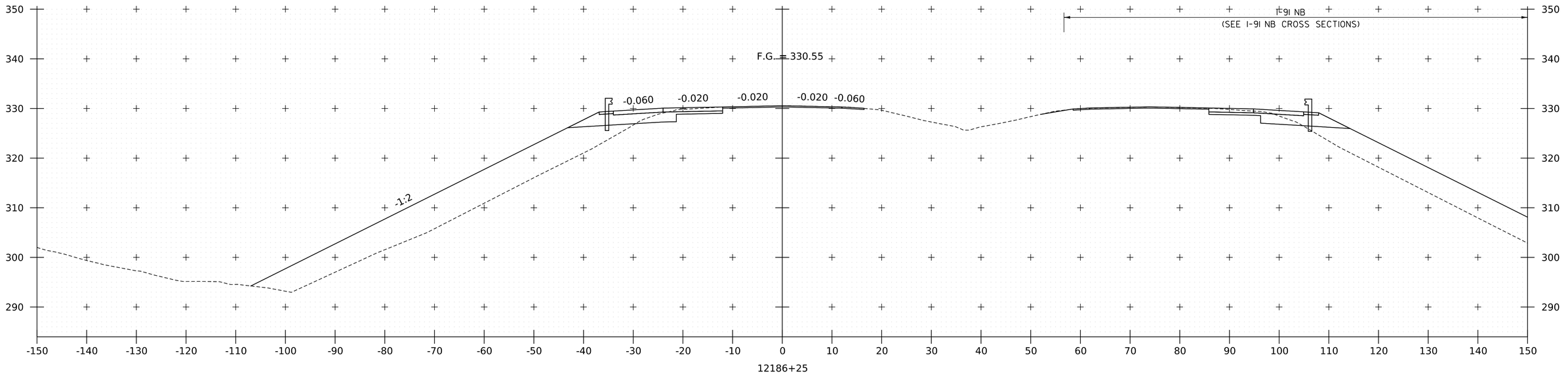
HNTB

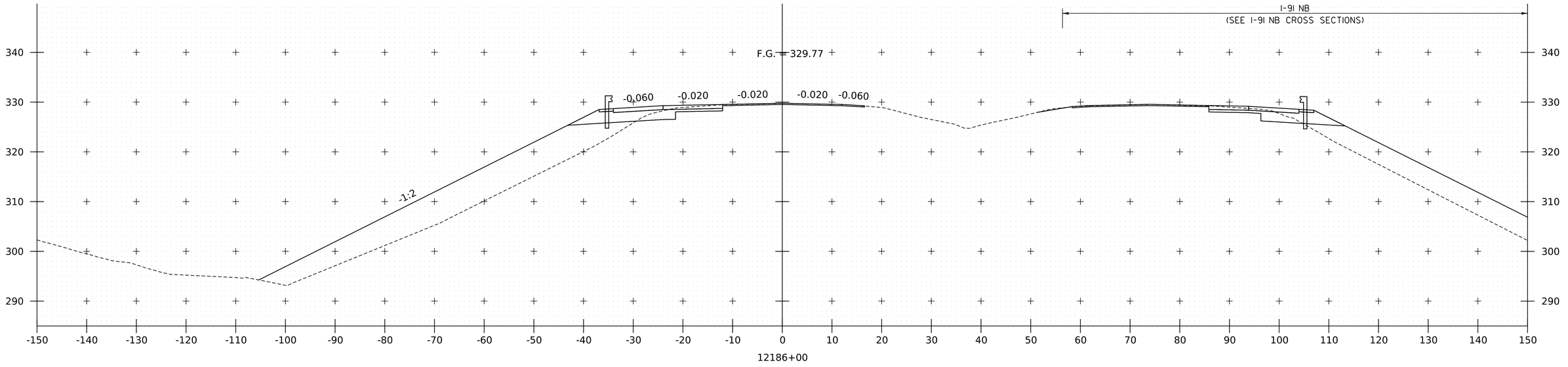




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 21	SHEET 253 OF 395

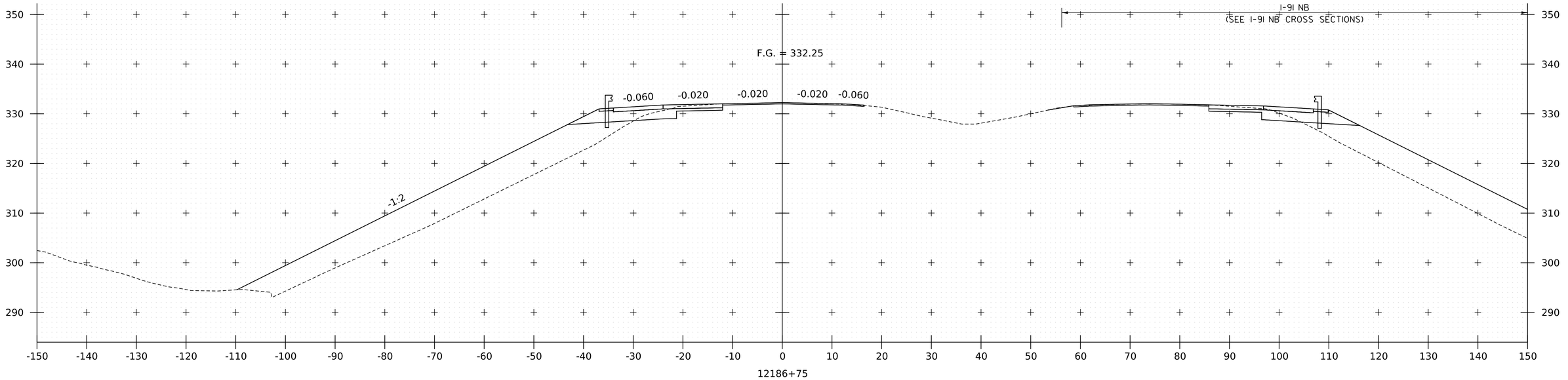
HNTB

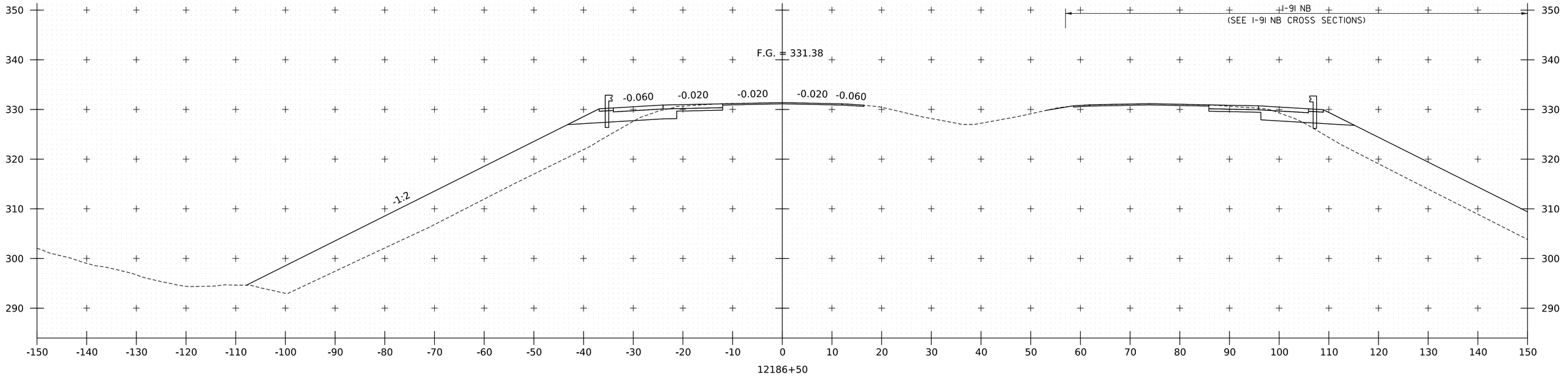




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 22	SHEET 254 OF 395

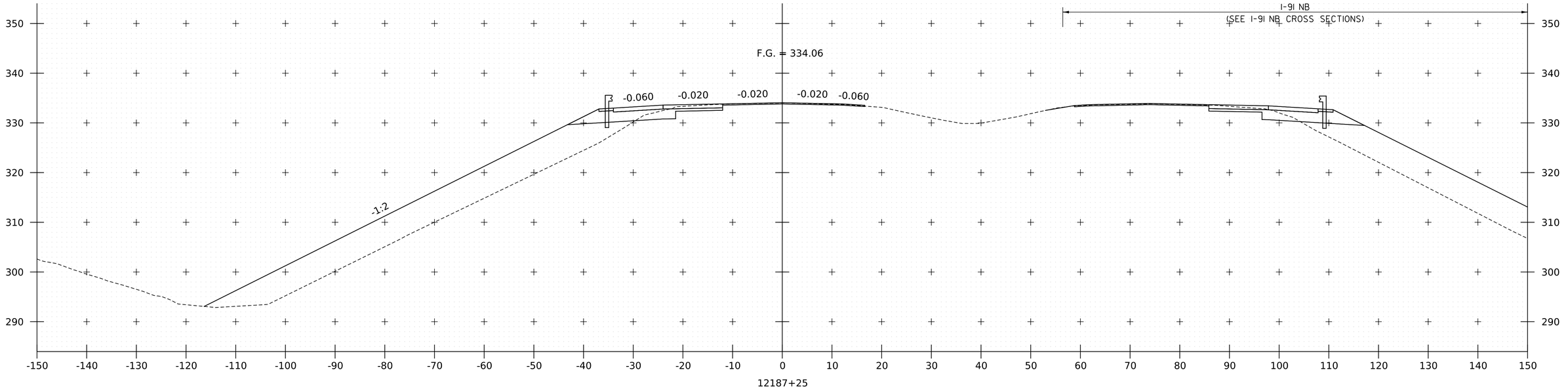
HNTB

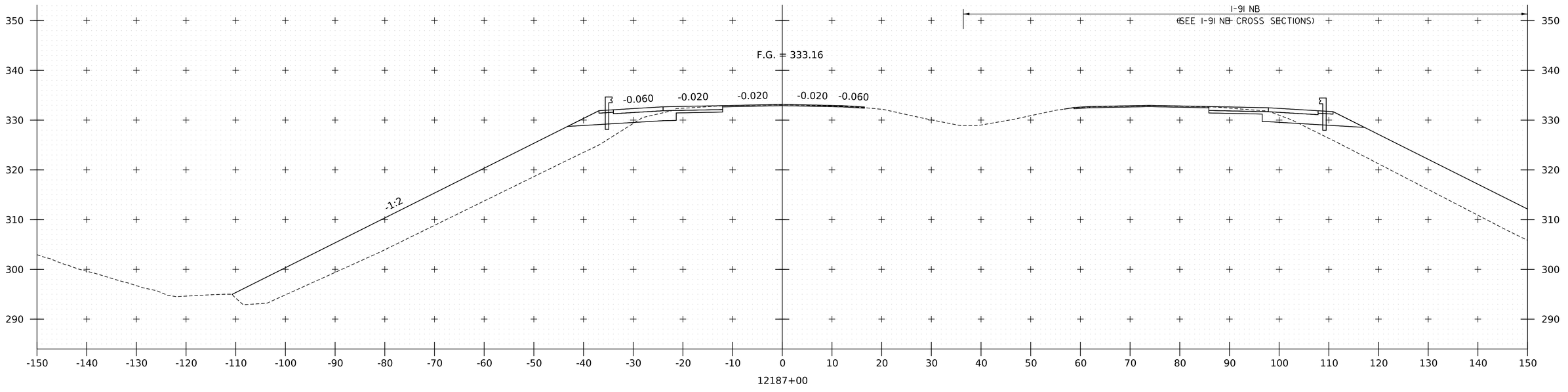




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 23	SHEET 255 OF 395

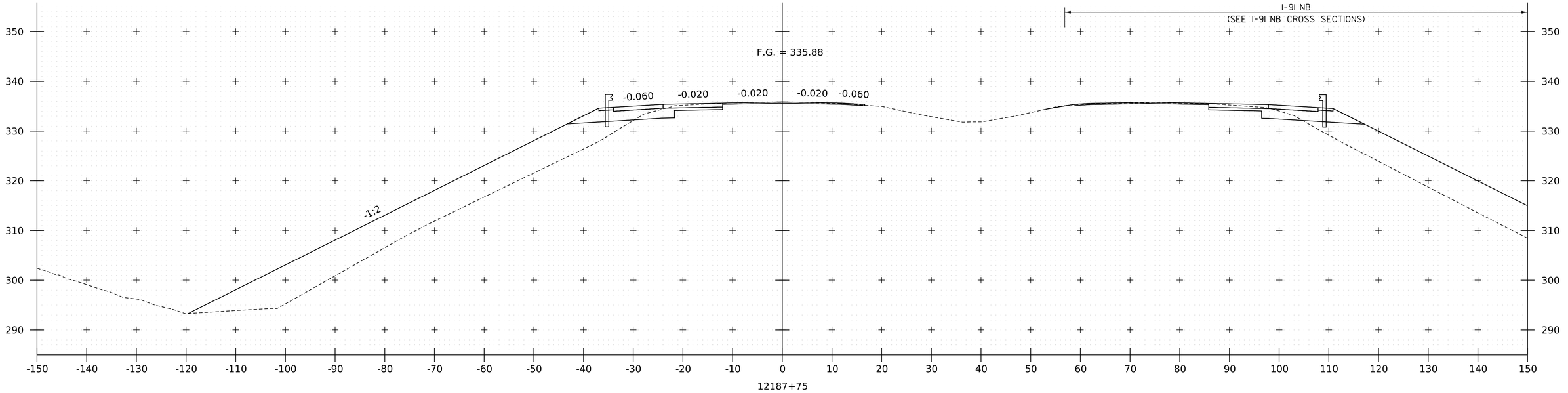
HNTB

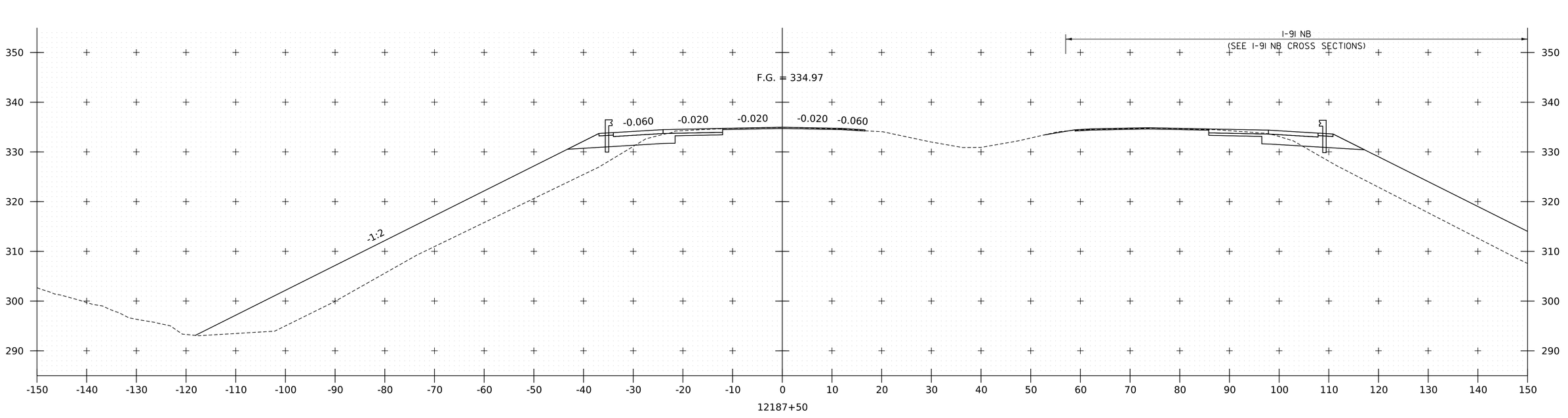




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 24	SHEET 256 OF 395

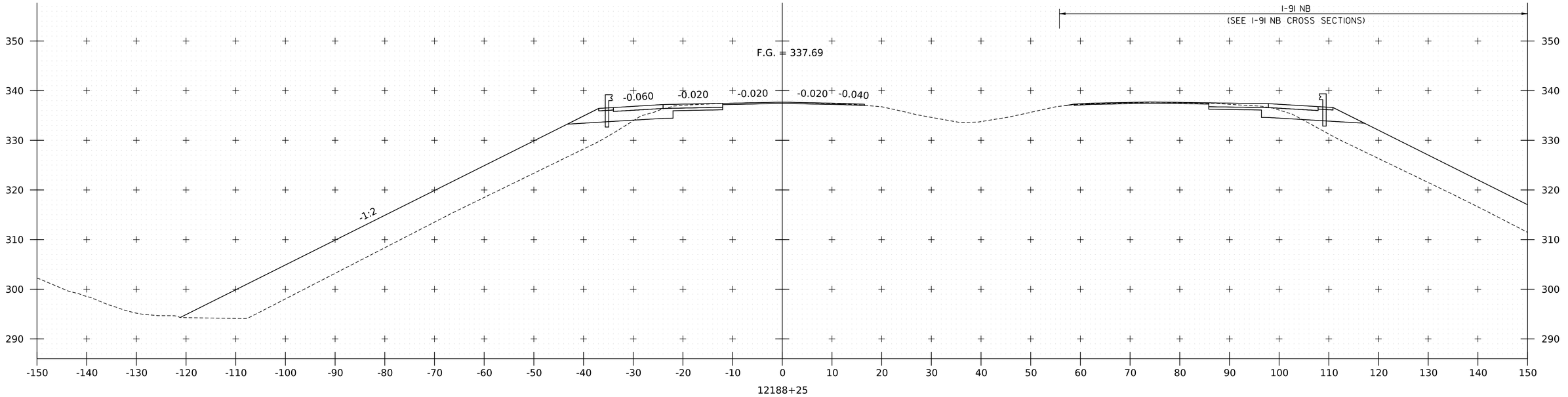
HNTB

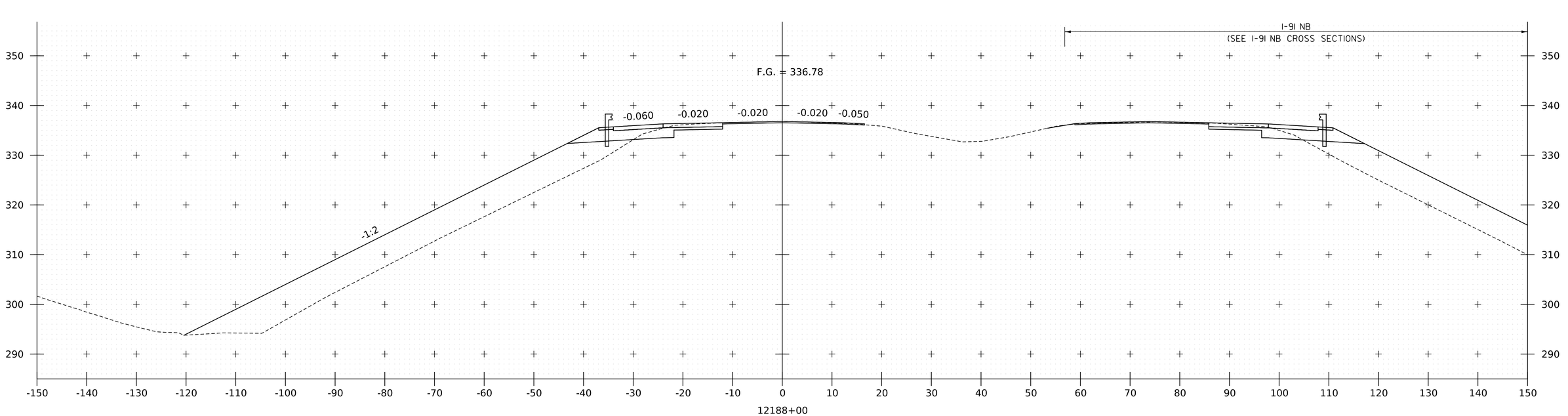




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 25	SHEET 257 OF 395

HNTB





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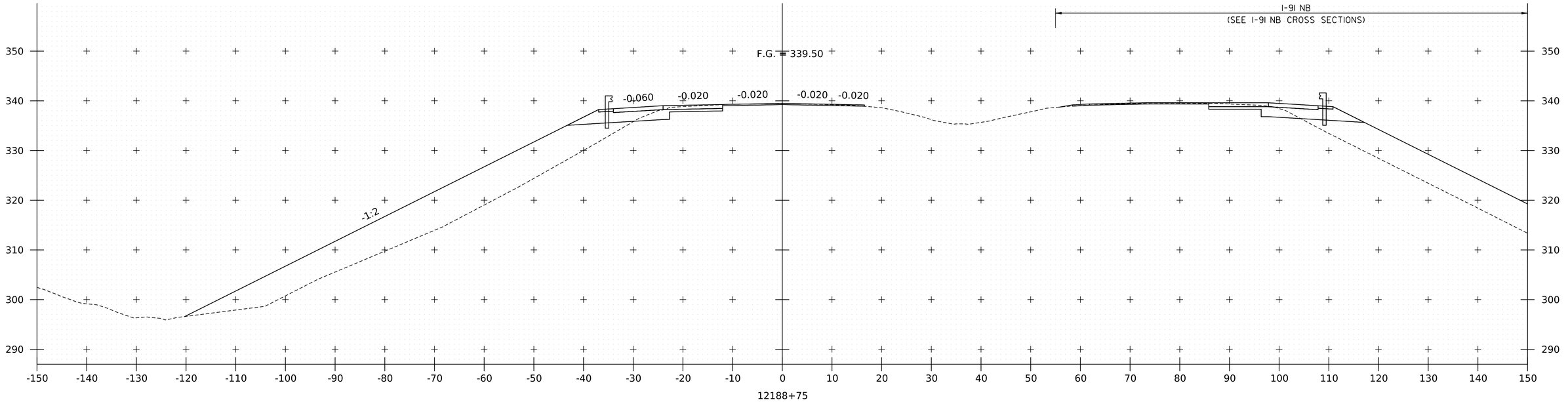
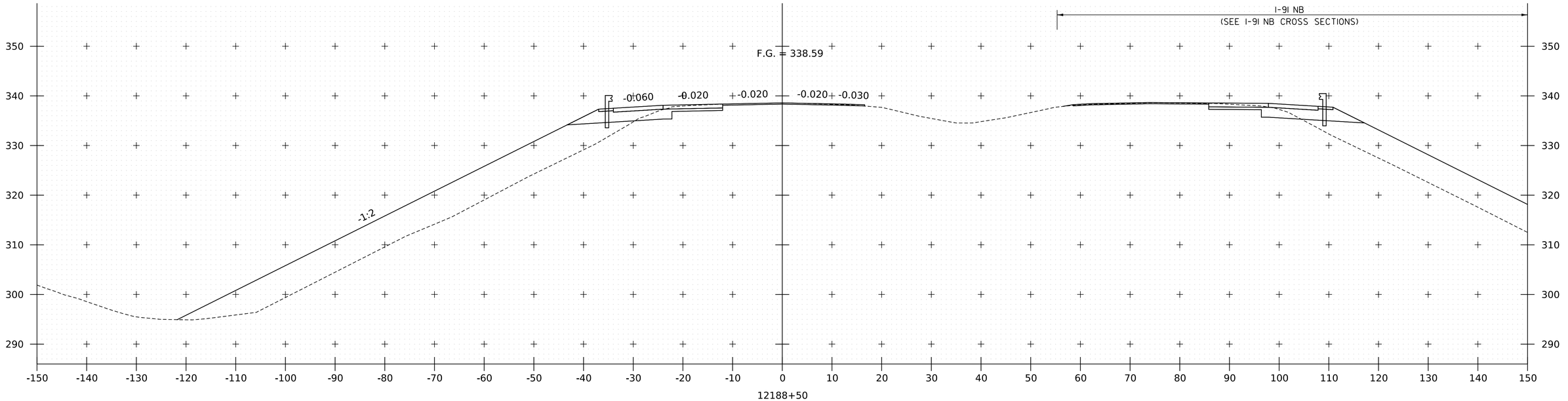
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 26	SHEET 258 OF 395





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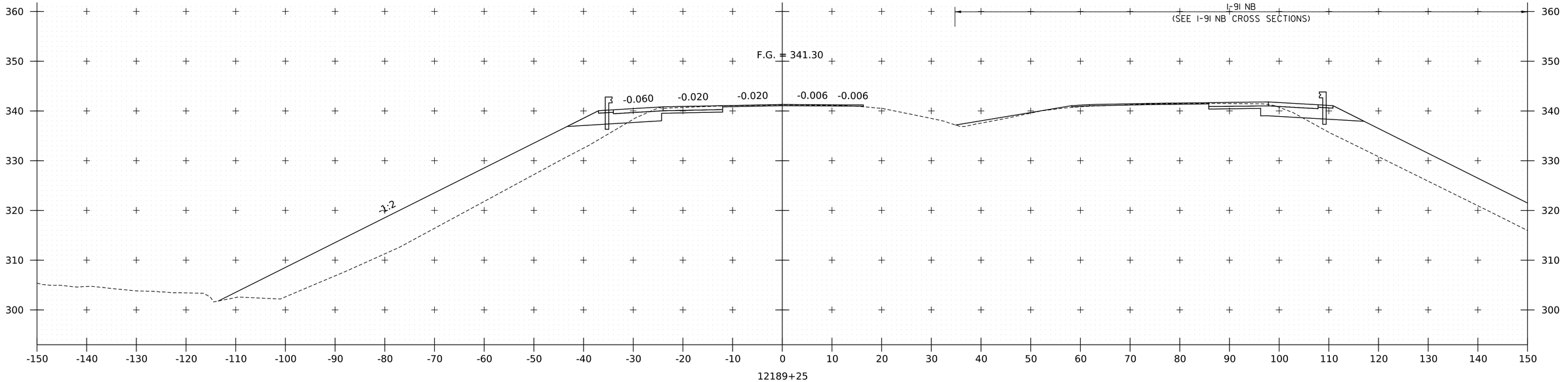
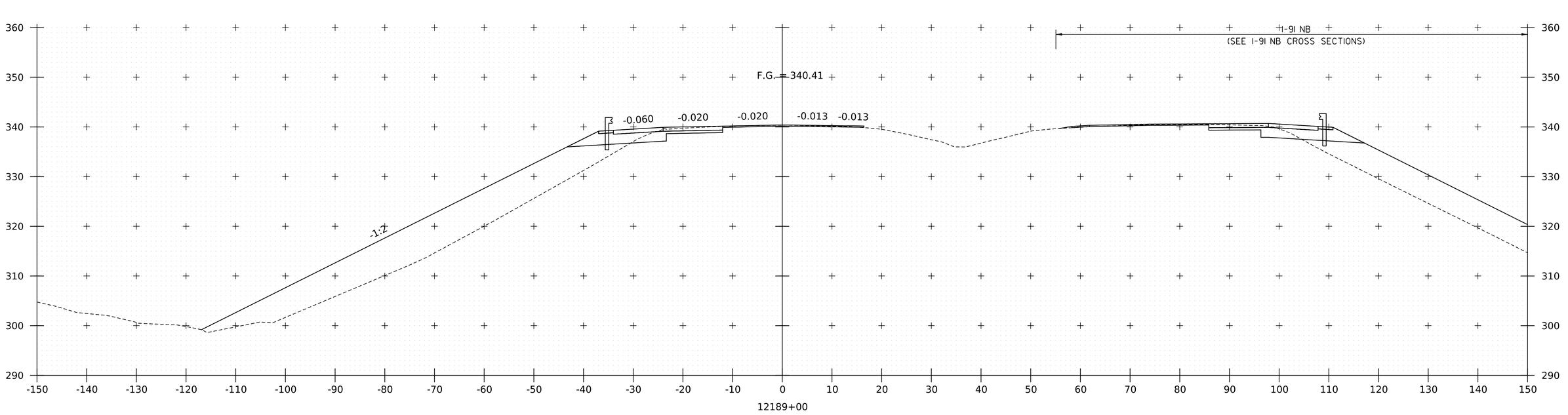
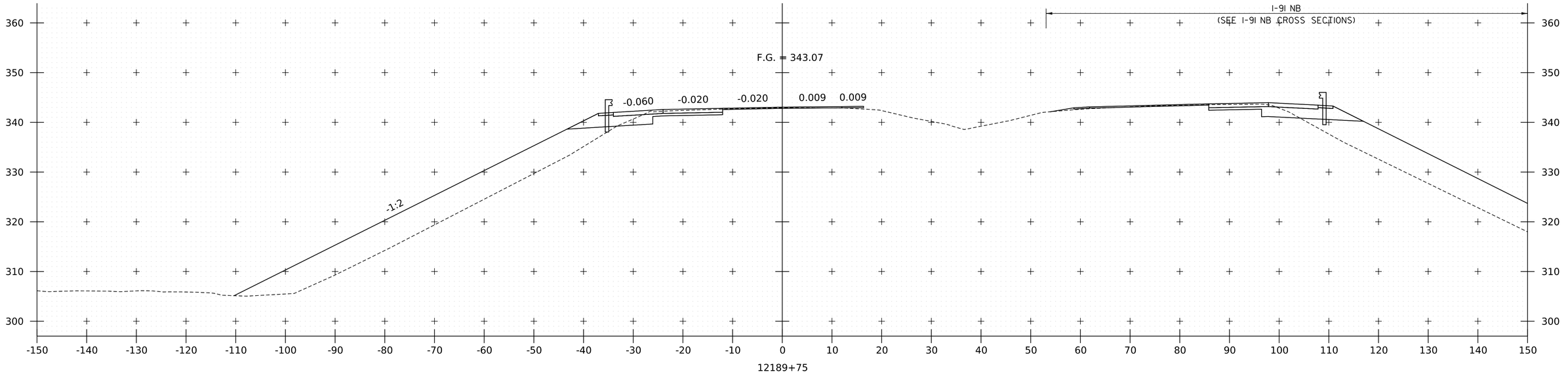
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 27	SHEET 259 OF 395

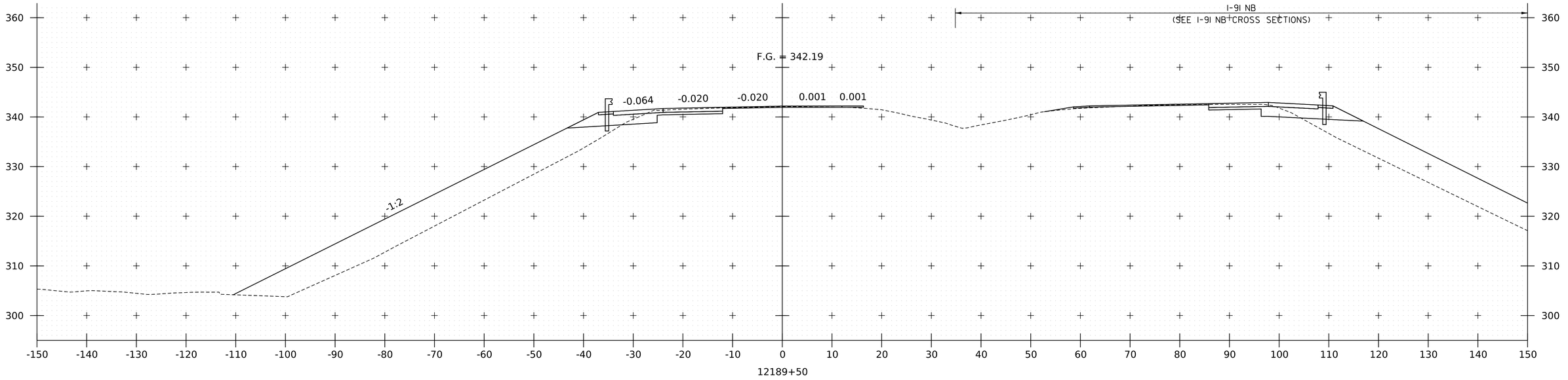




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 28	SHEET 260 OF 395

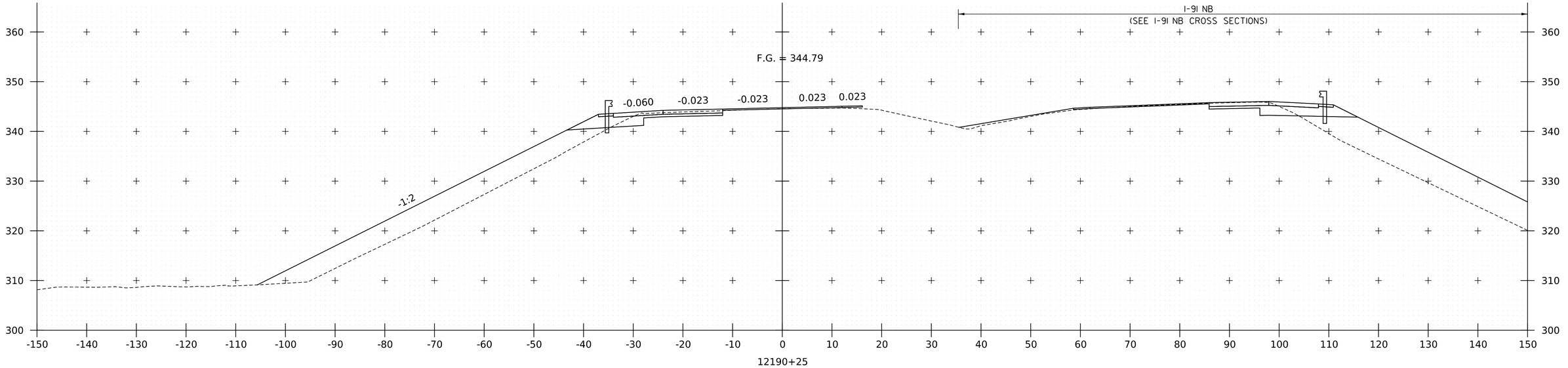
HNTB

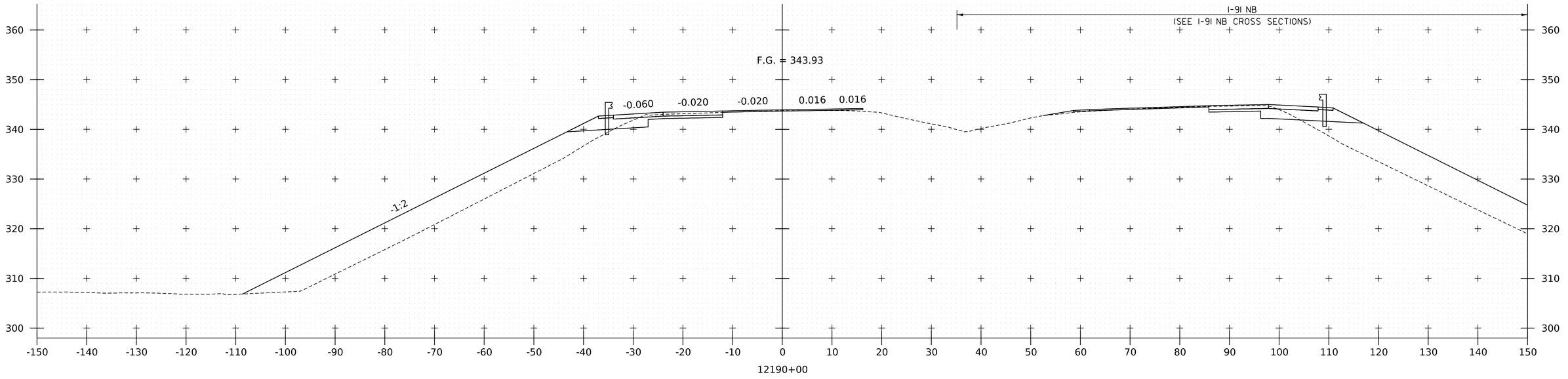




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 29	SHEET 261 OF 395

HNTB

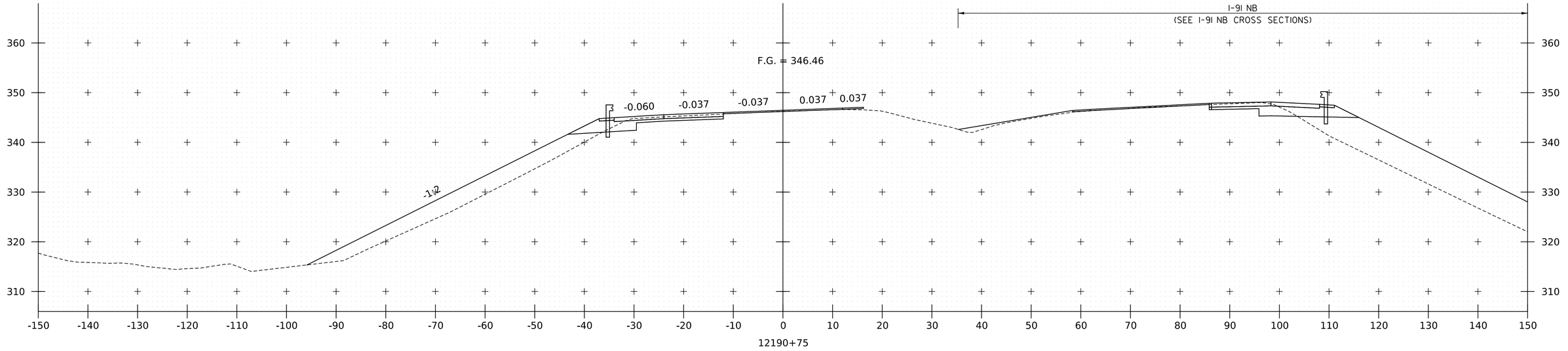


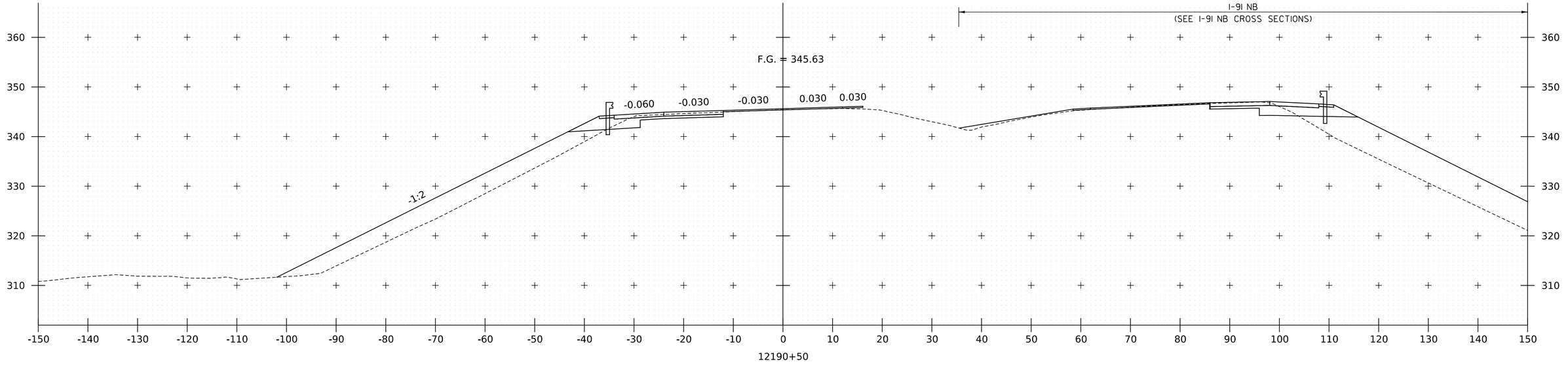


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 30	SHEET 262 OF 395

HNTB



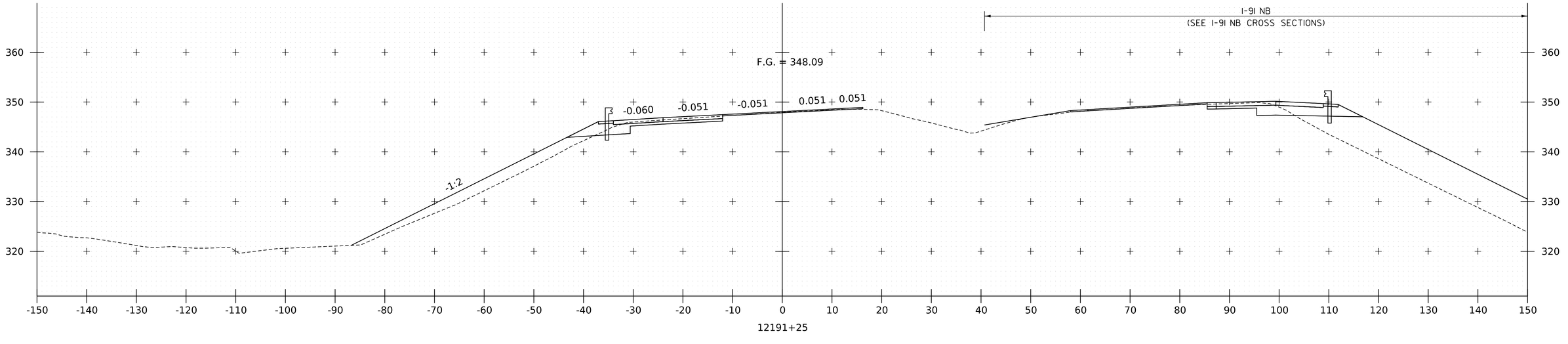


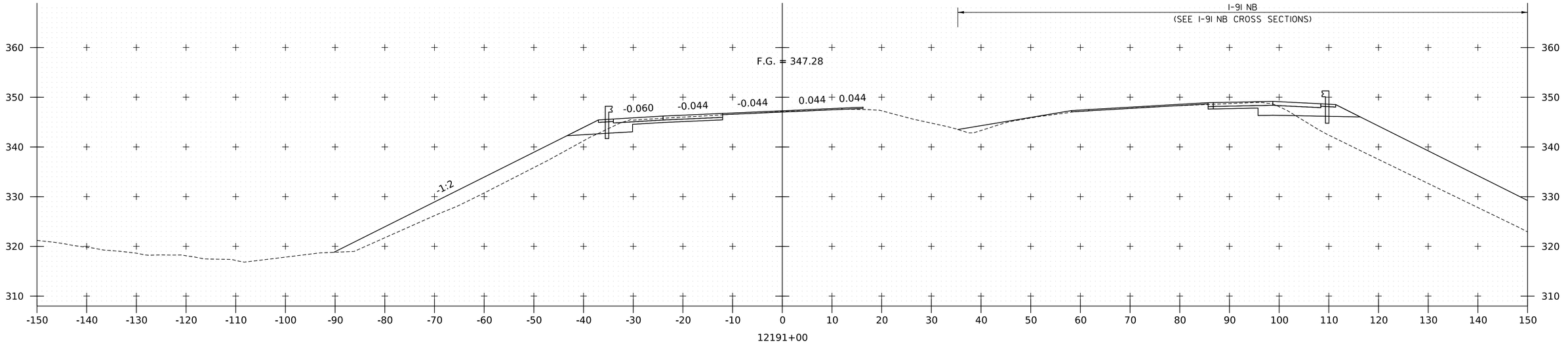
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 31

PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 263 OF 395

HNTB



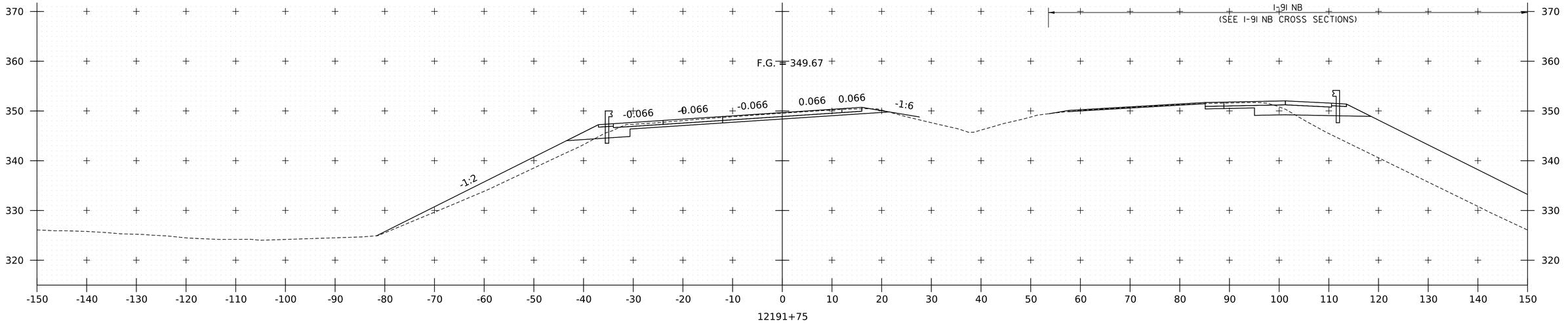


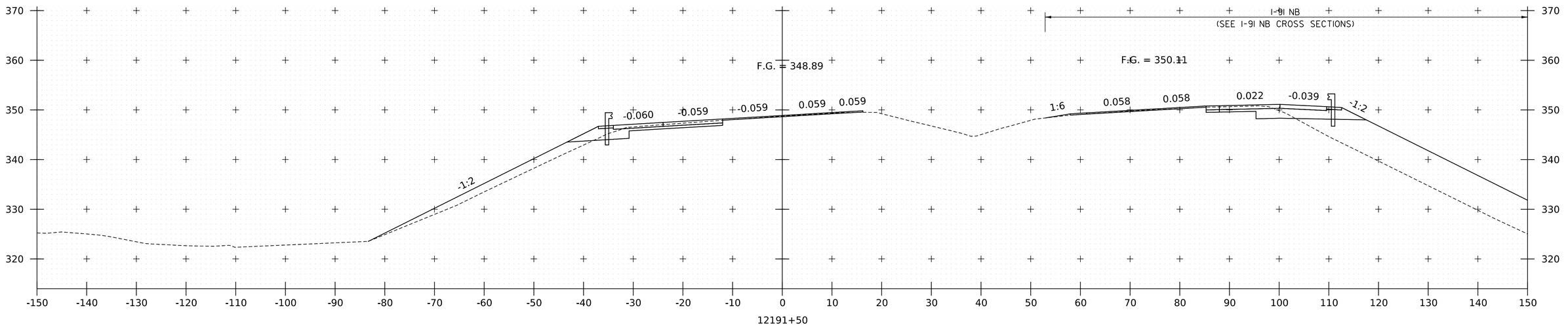
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 32

PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 264 OF 395

HNTB

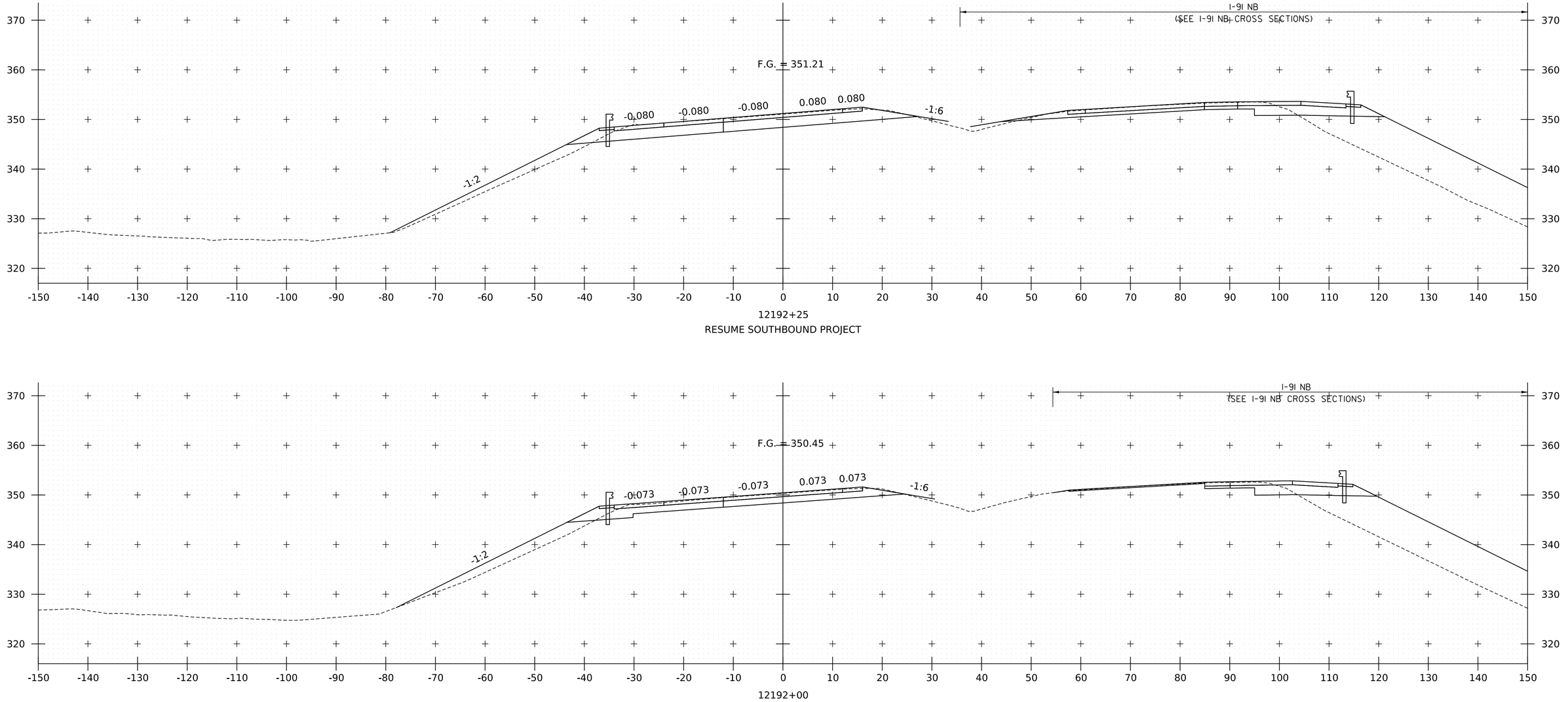




PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 33

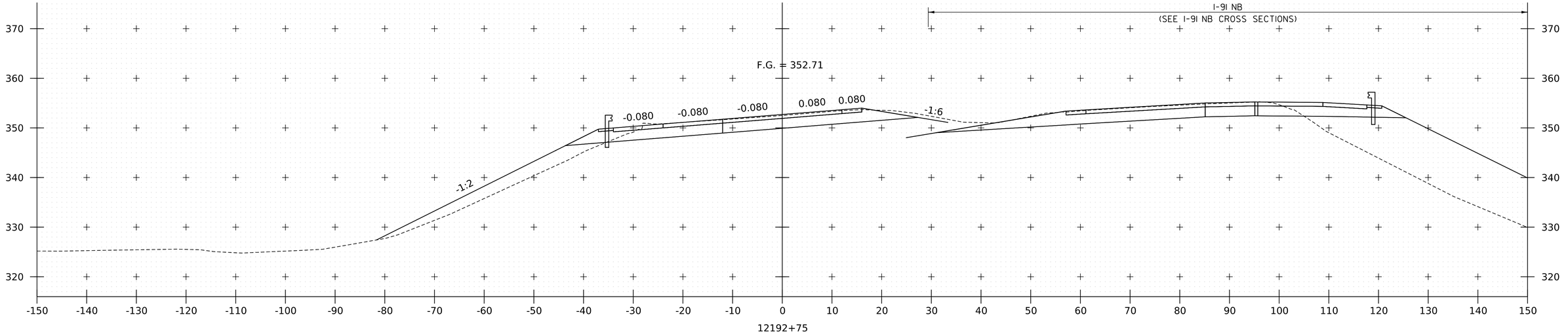
PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 265 OF 395

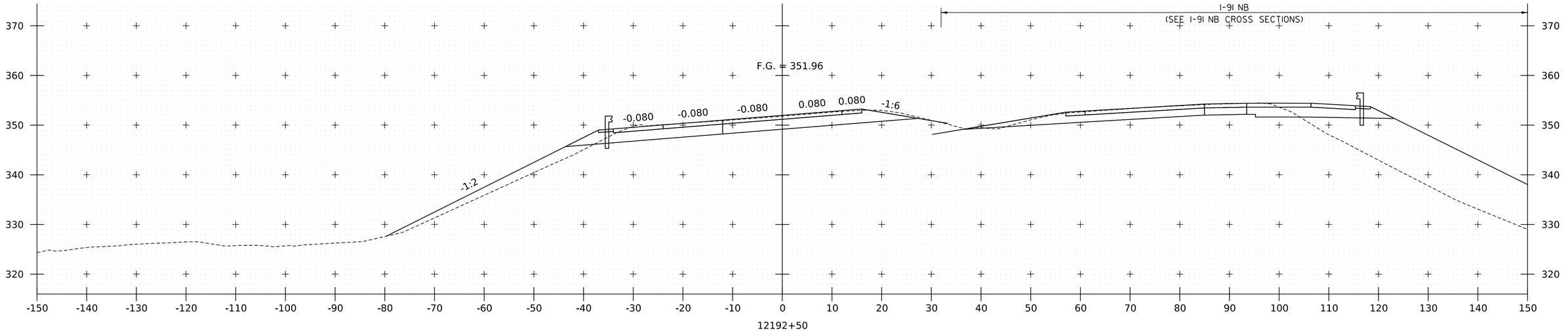


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: I-91 SB CROSS SECTIONS 33	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 34	SHEET 266 OF 395

HNTB

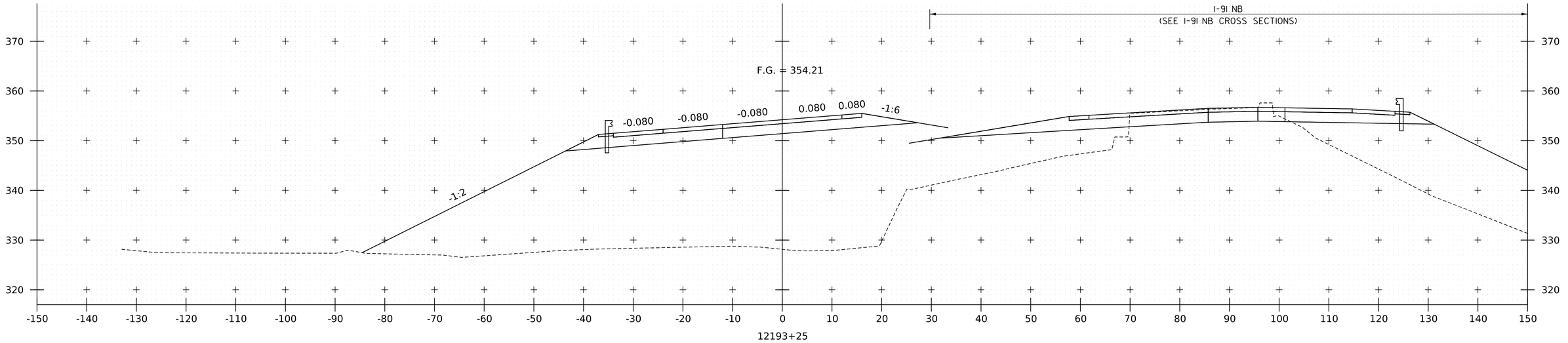


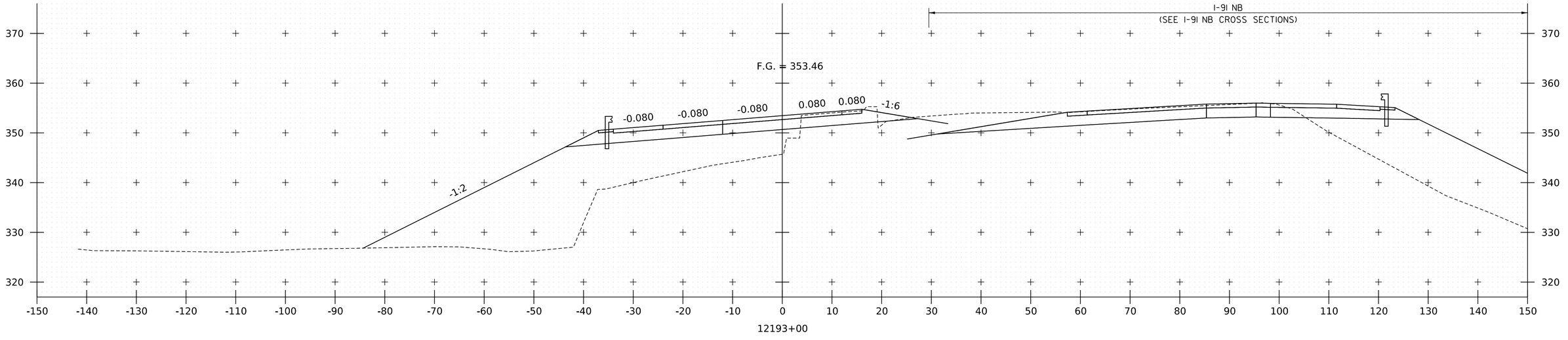


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 35	SHEET 267 OF 395

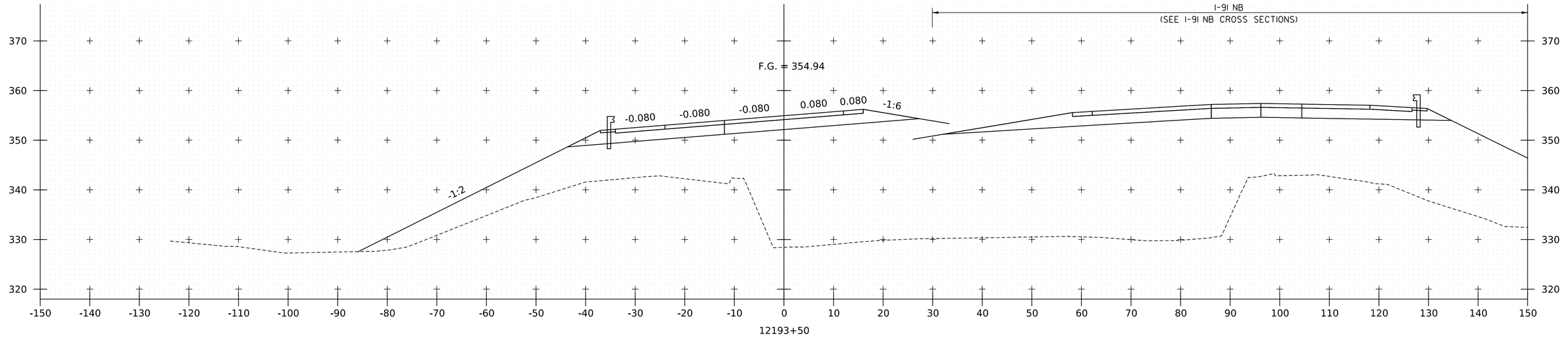
HNTB





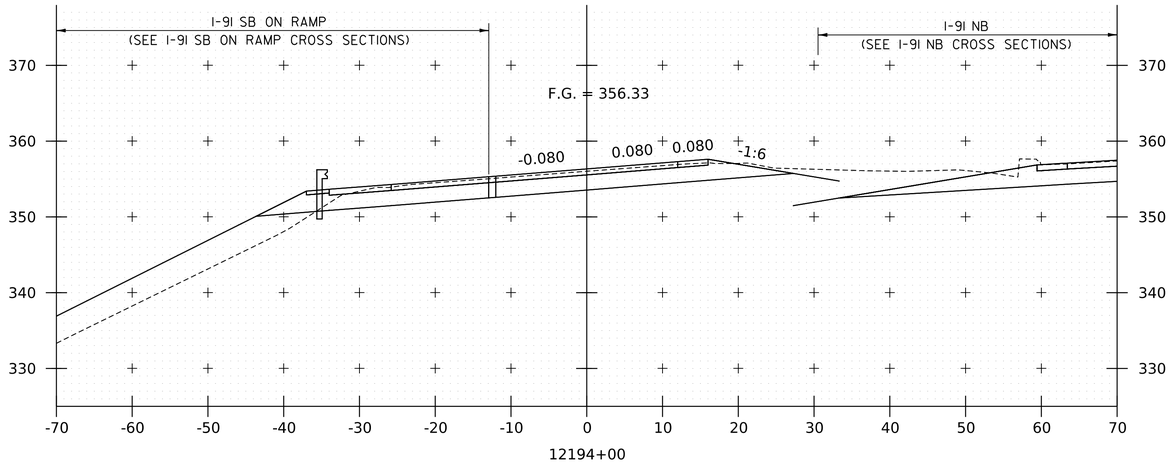
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 36	SHEET 268 OF 395

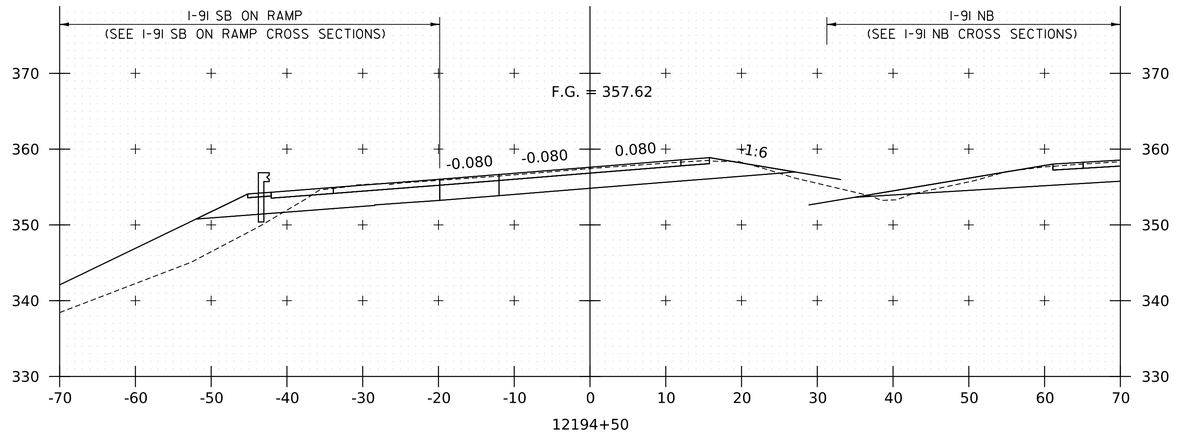
HNTB

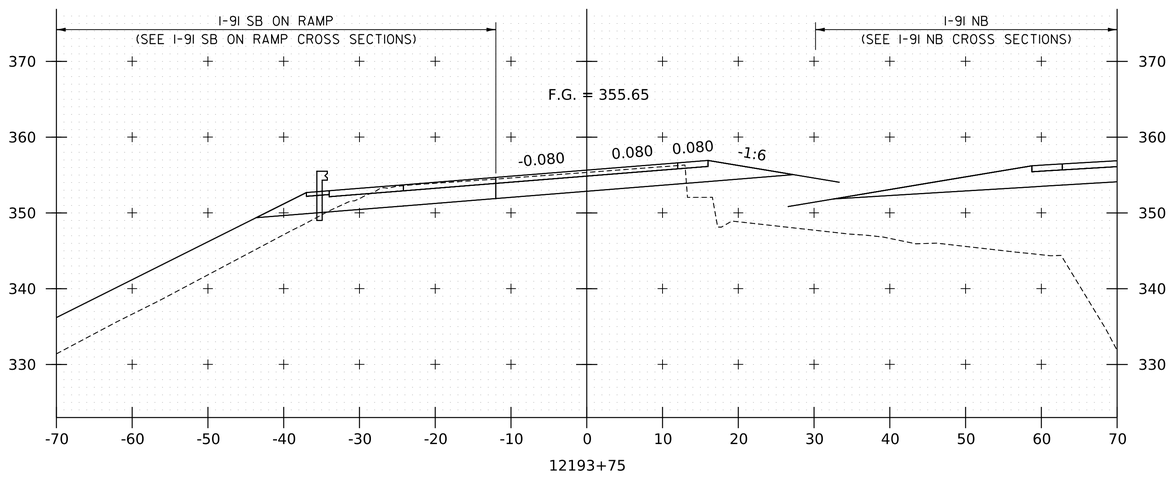


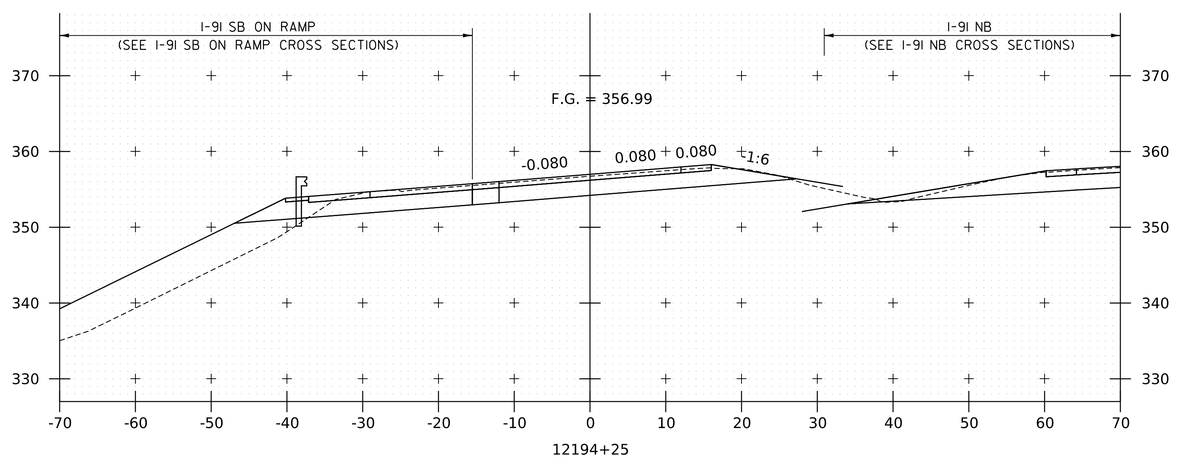
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 37	SHEET 269 OF 395

HNTB





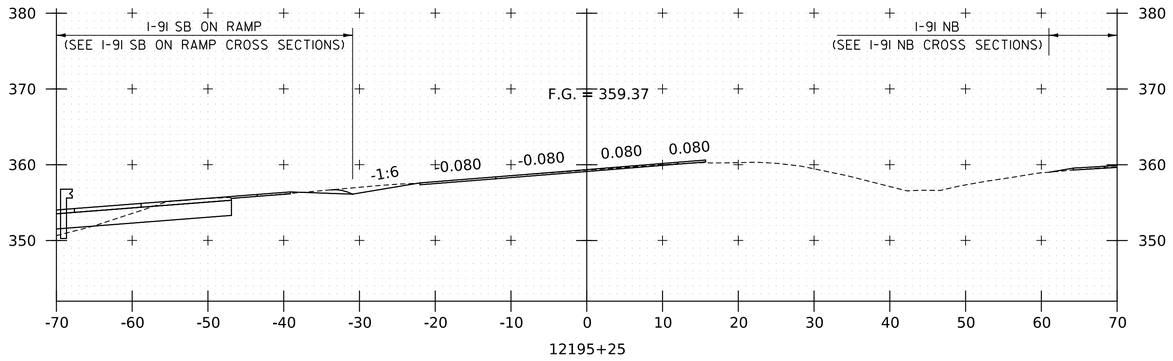


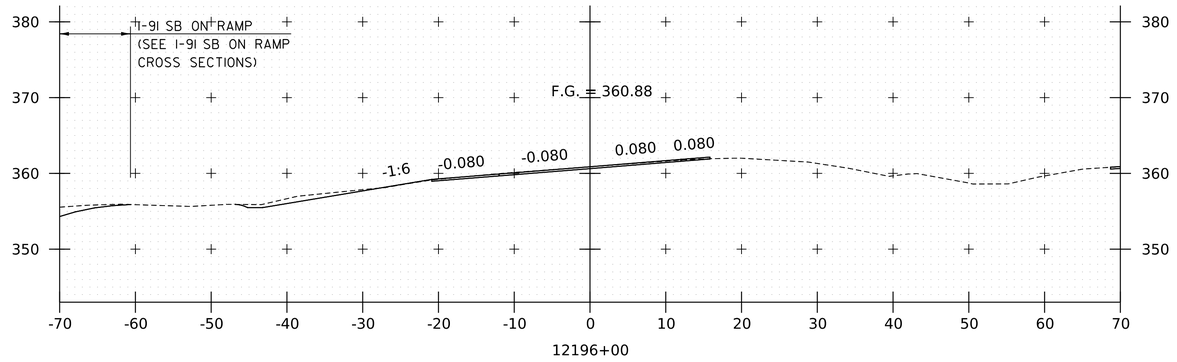


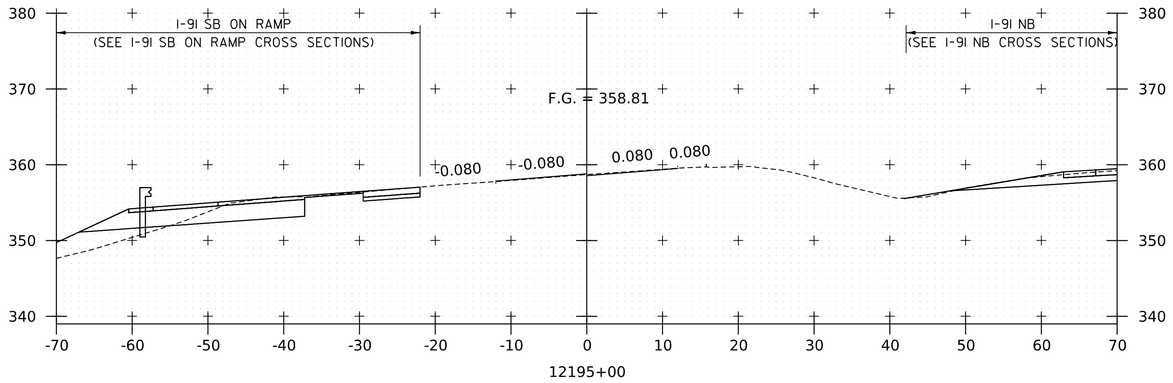
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

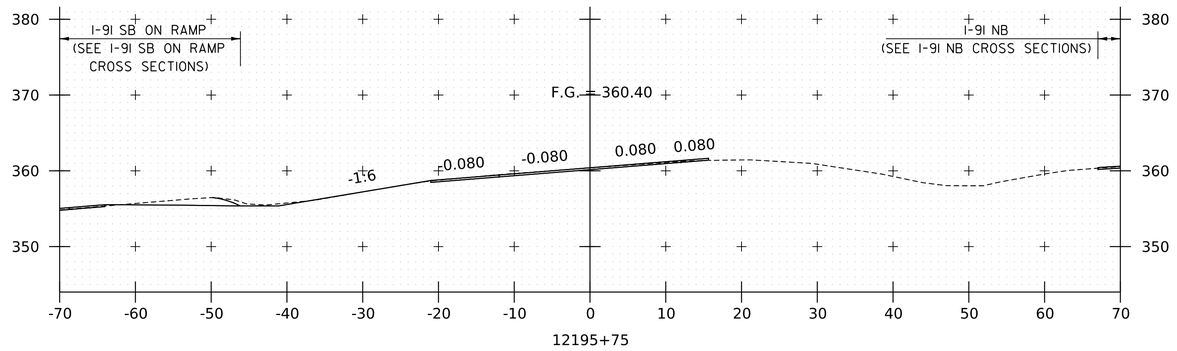
FILE NAME: z12a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 38

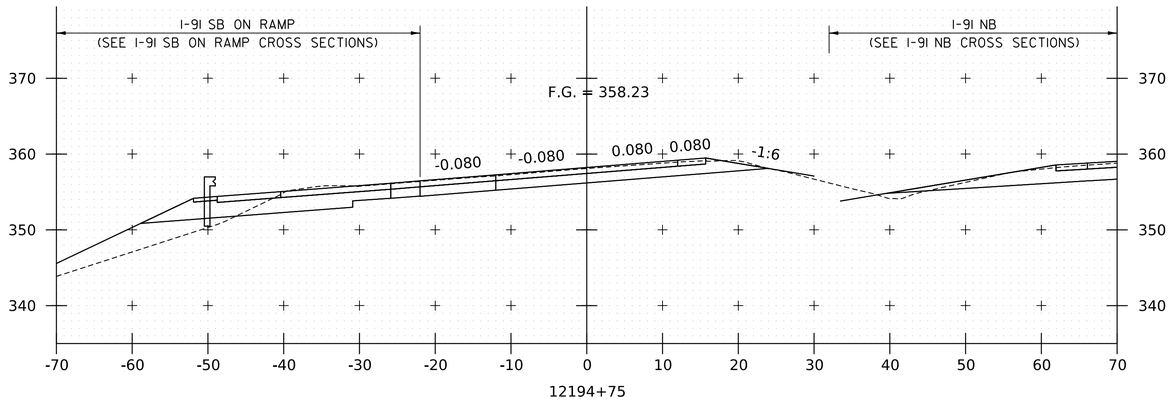
PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 270 OF 395

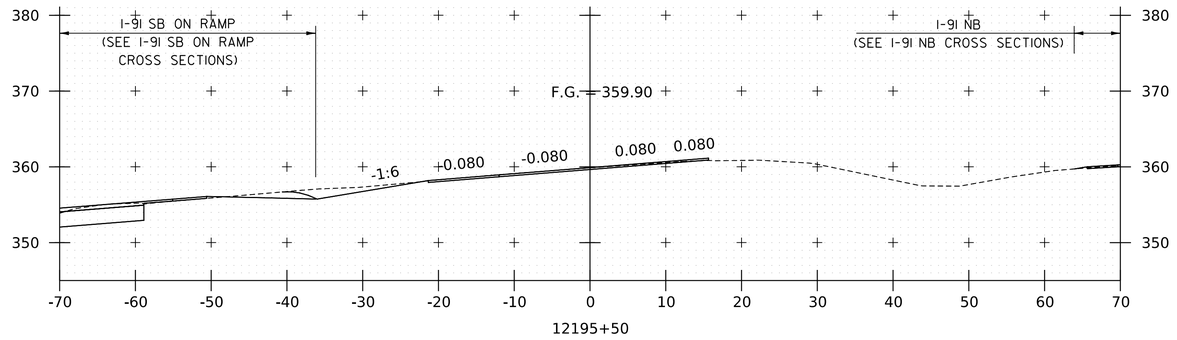








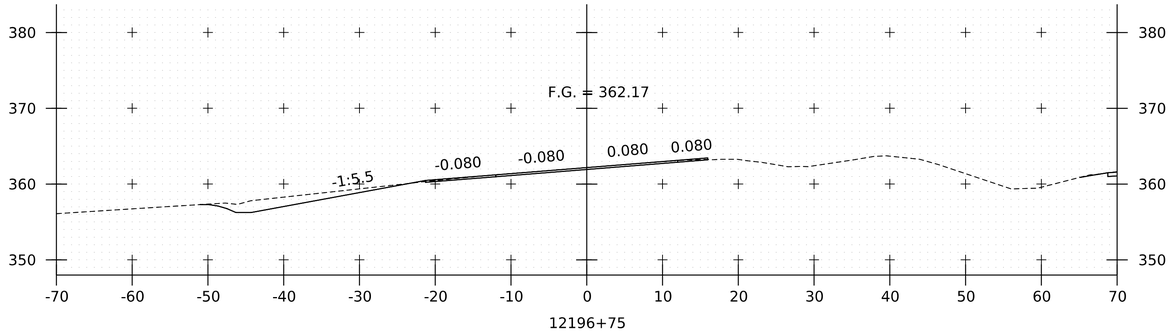




PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I_91_SB.dgn•
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 39

PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 271 OF 395



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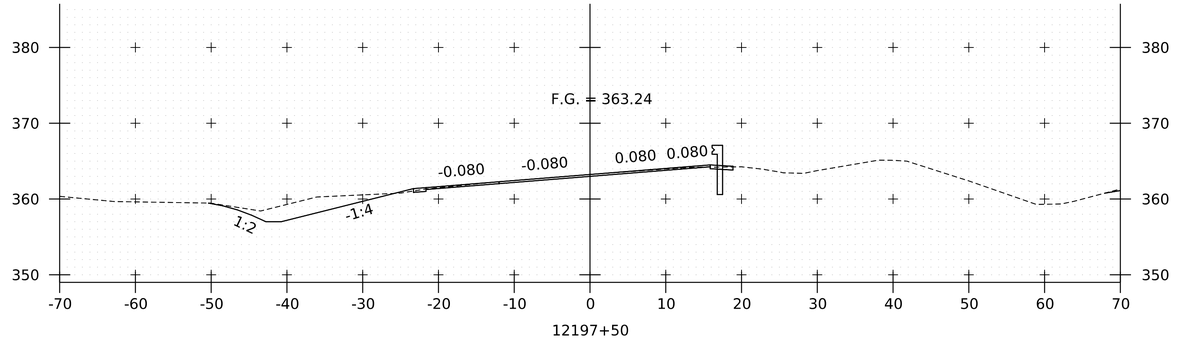

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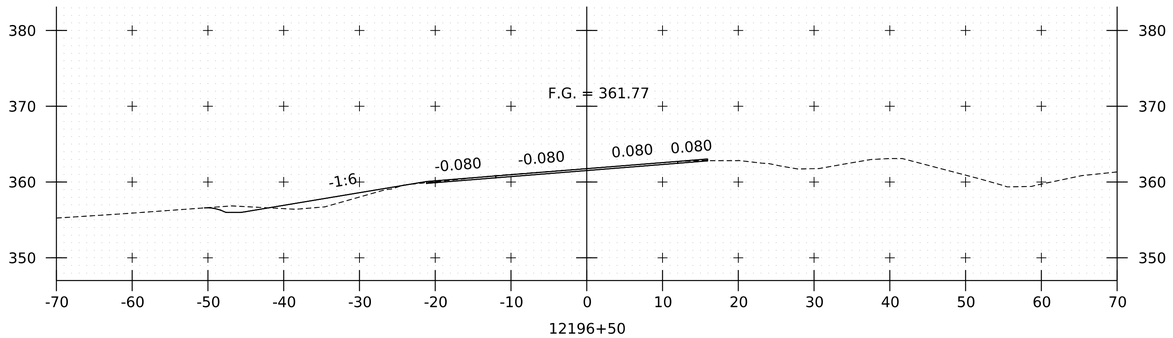

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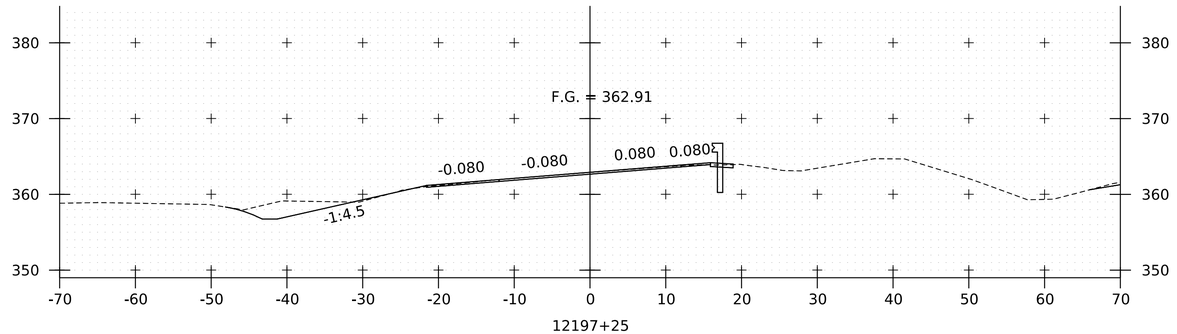

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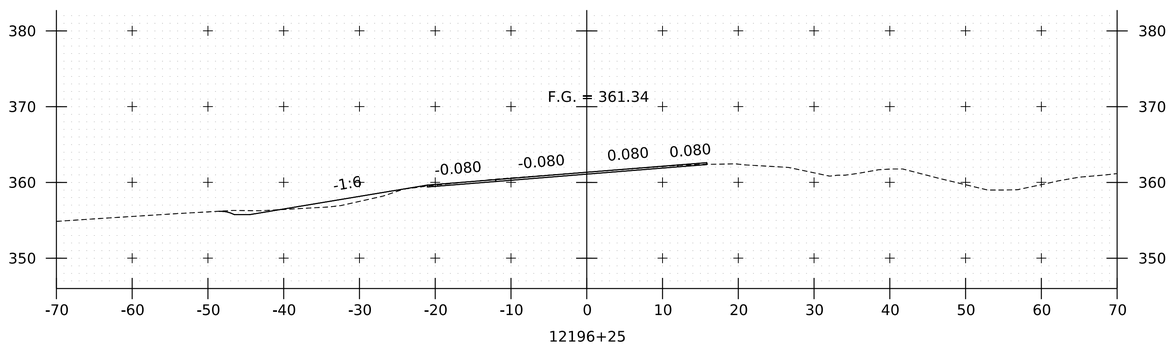

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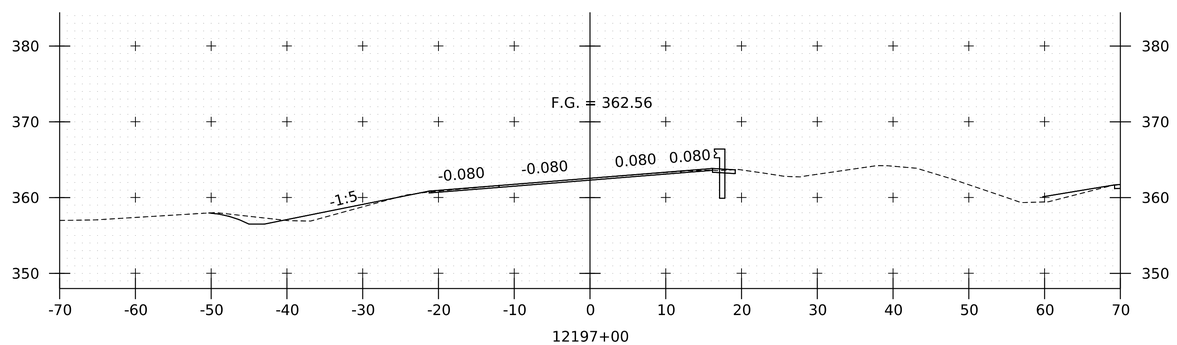
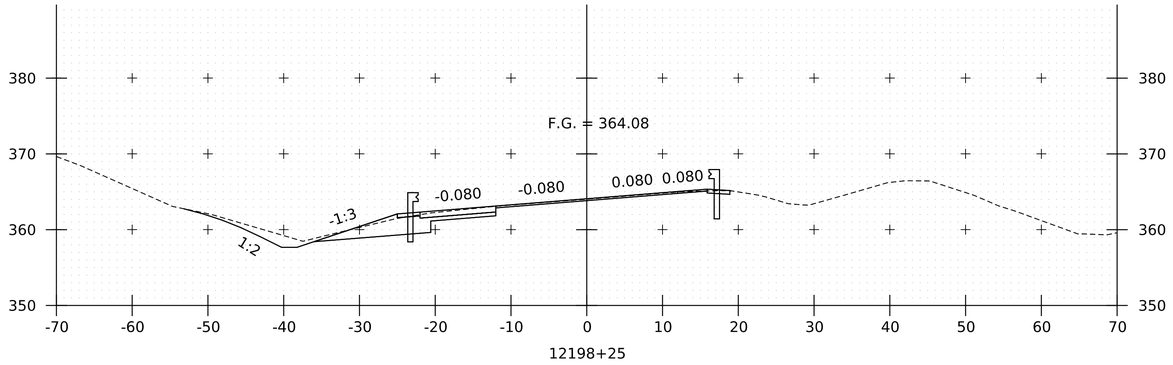


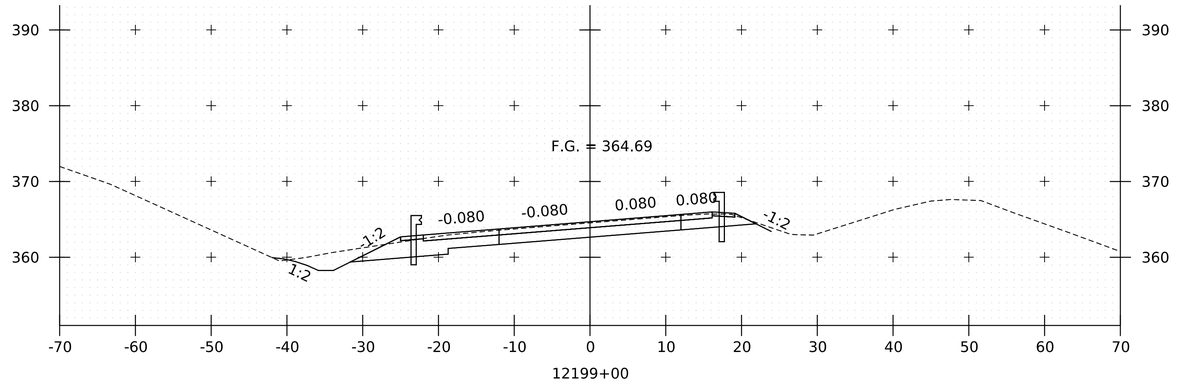
12197+00

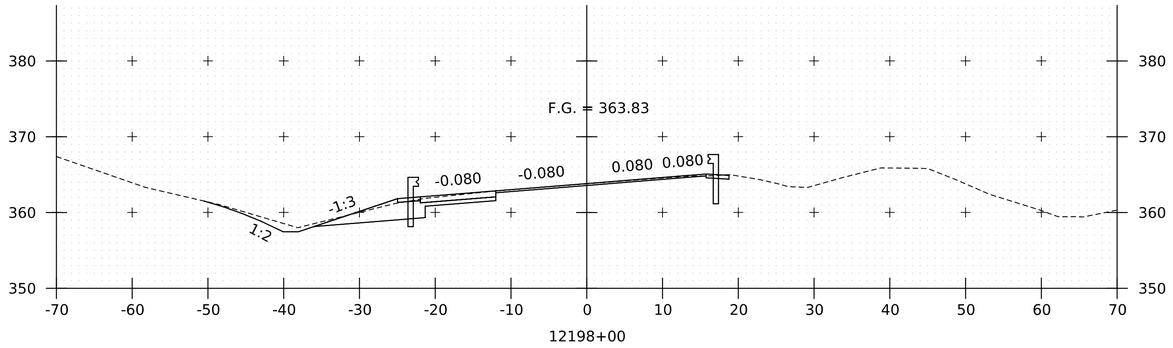
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

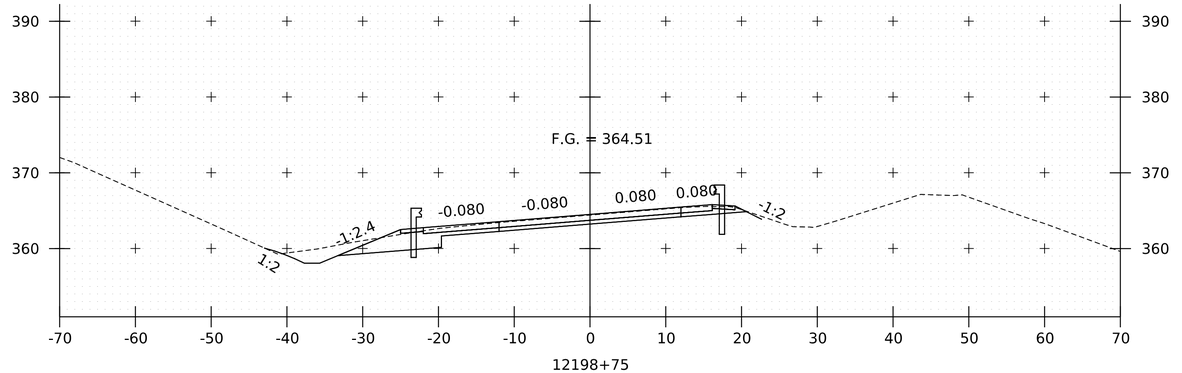
FILE NAME: z12a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 40

PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 272 OF 395

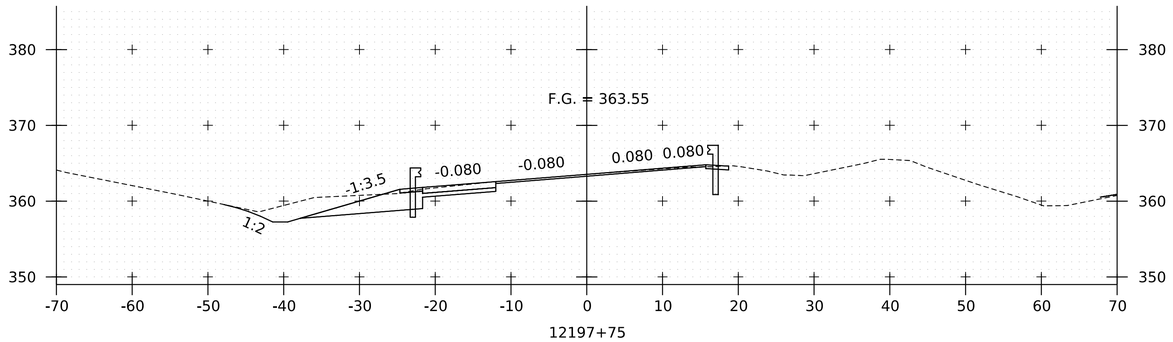


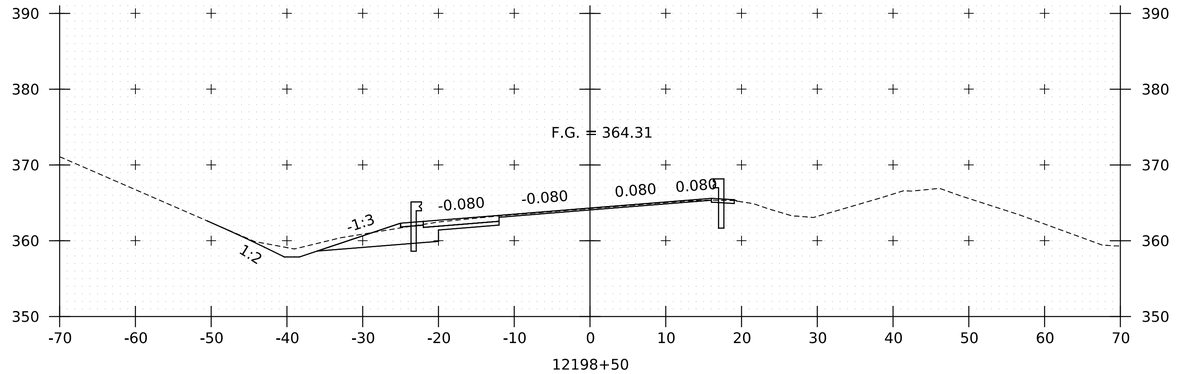






RESUME SOUTHBOUND PROJECT

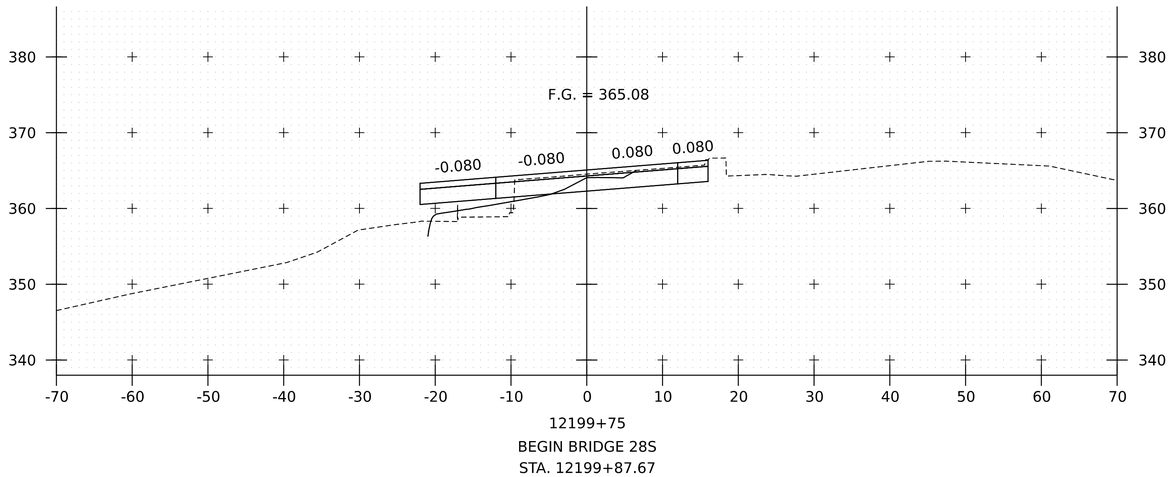




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

HNTB

FILE NAME: z12a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 41	SHEET 273 OF 395



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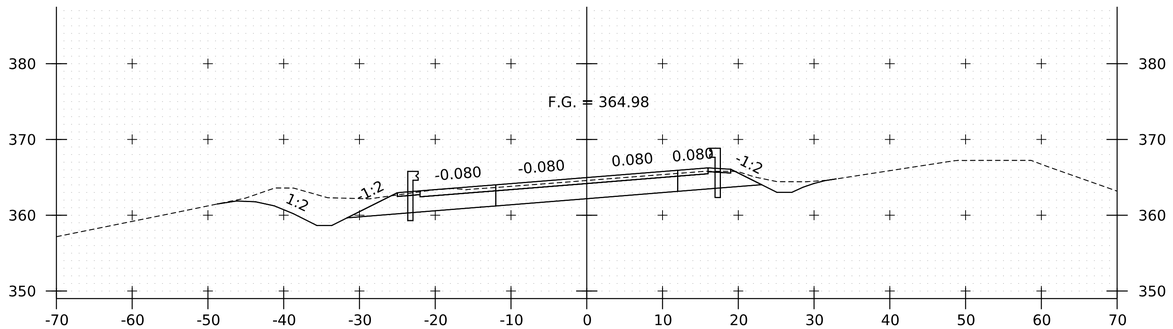
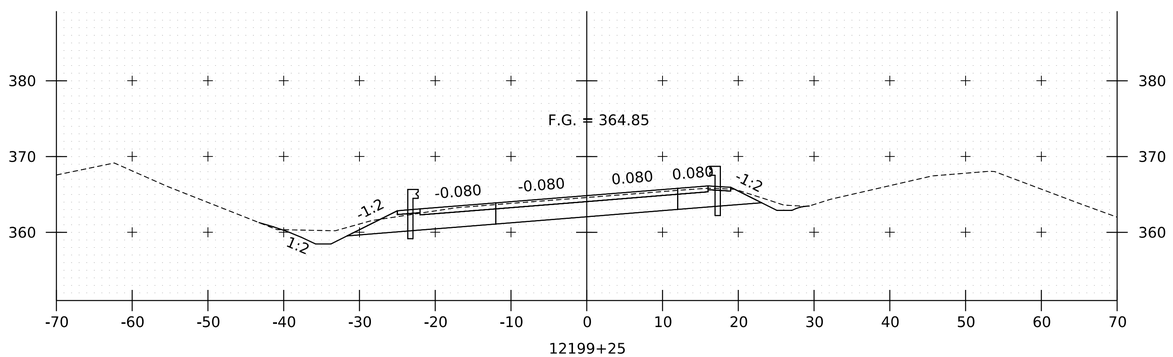
BEGIN BRIDGE 28S
STA. 12199+87.67



12199+50



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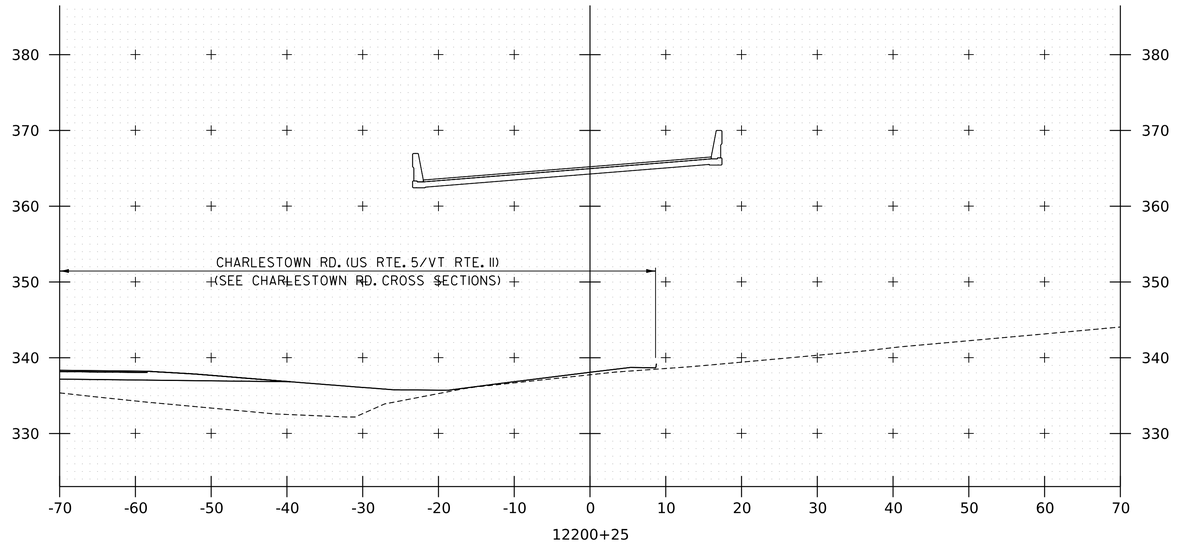

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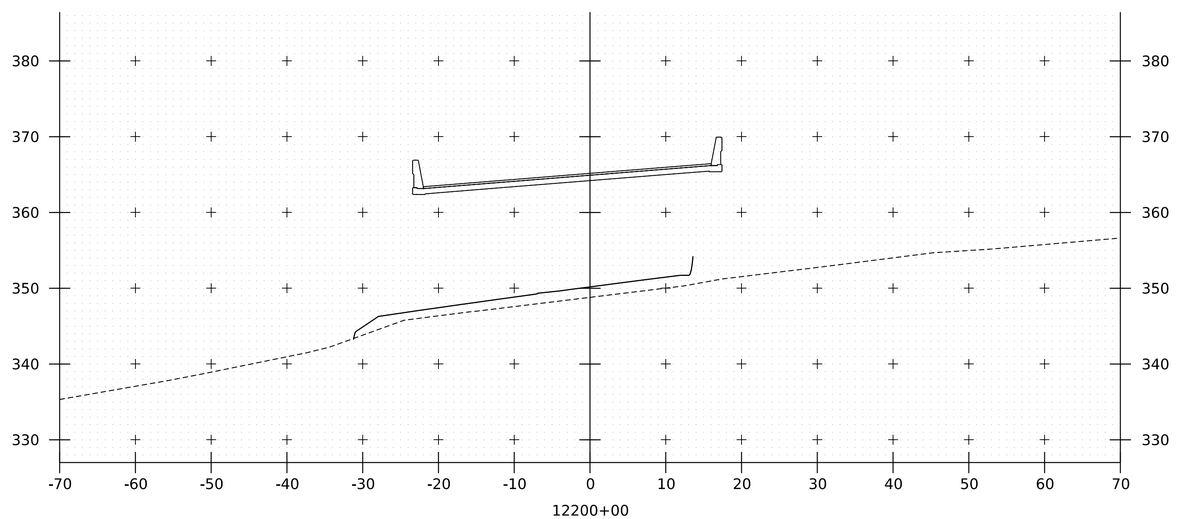
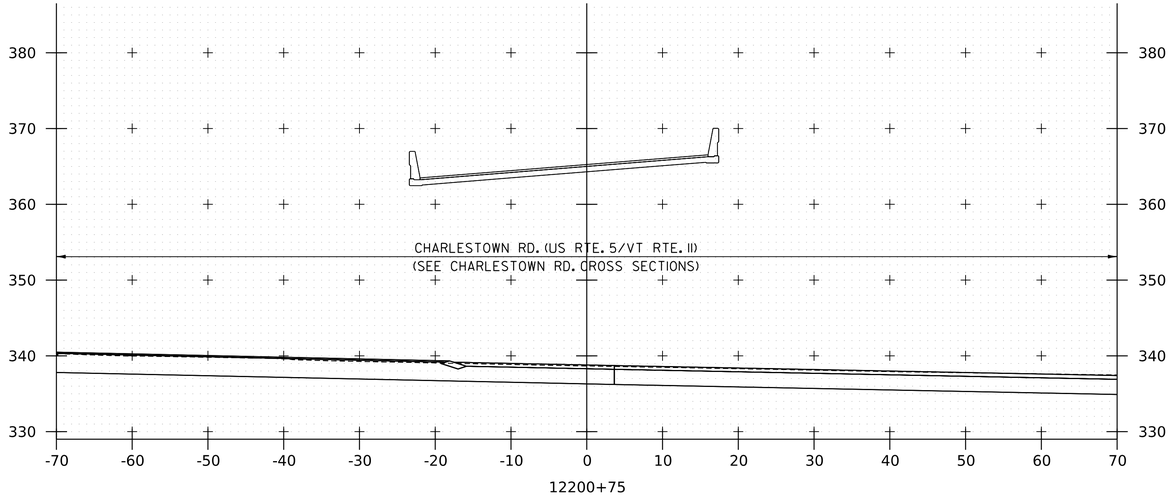
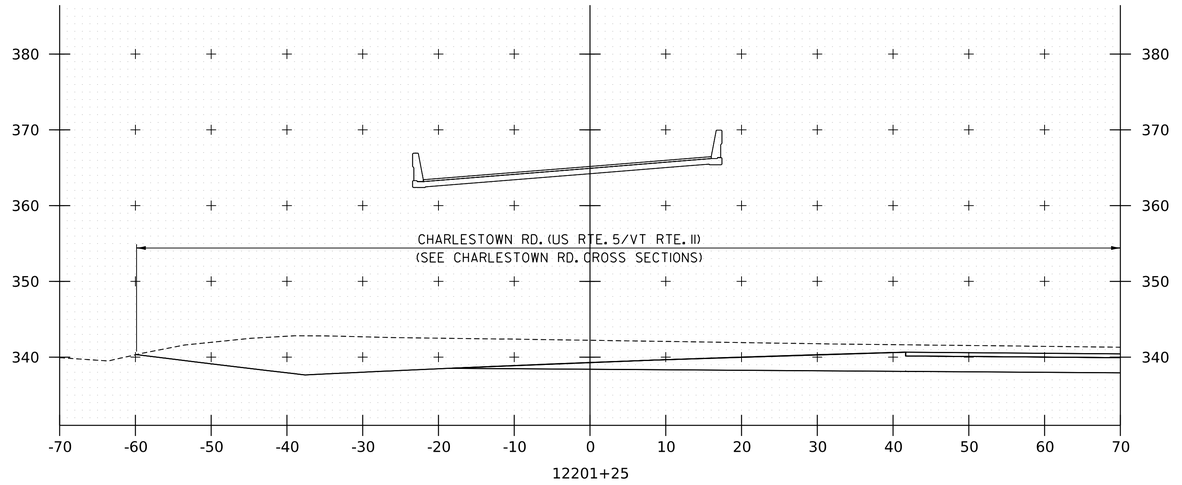


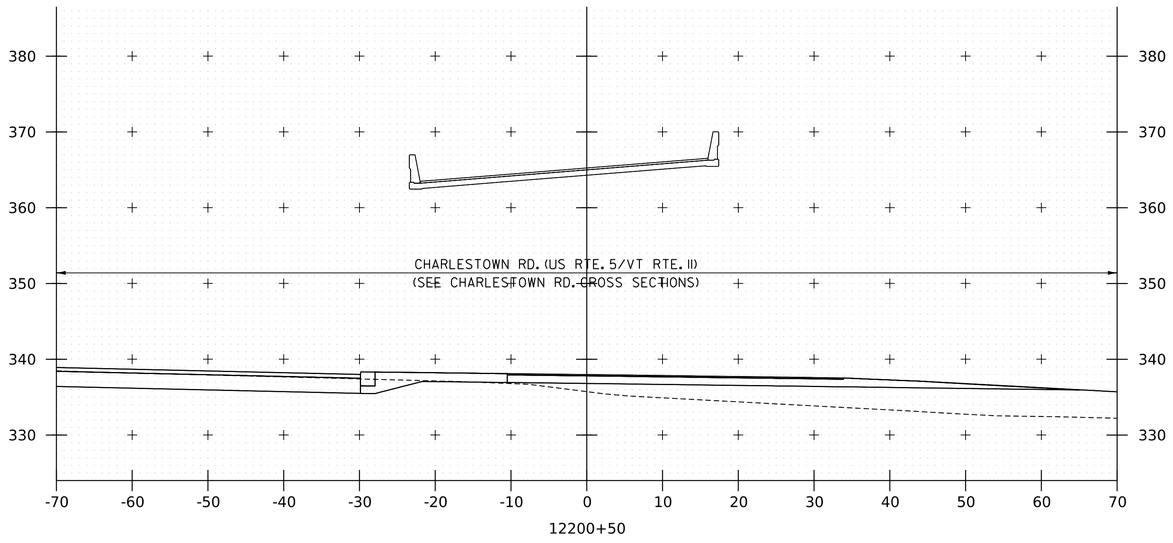
12200+00

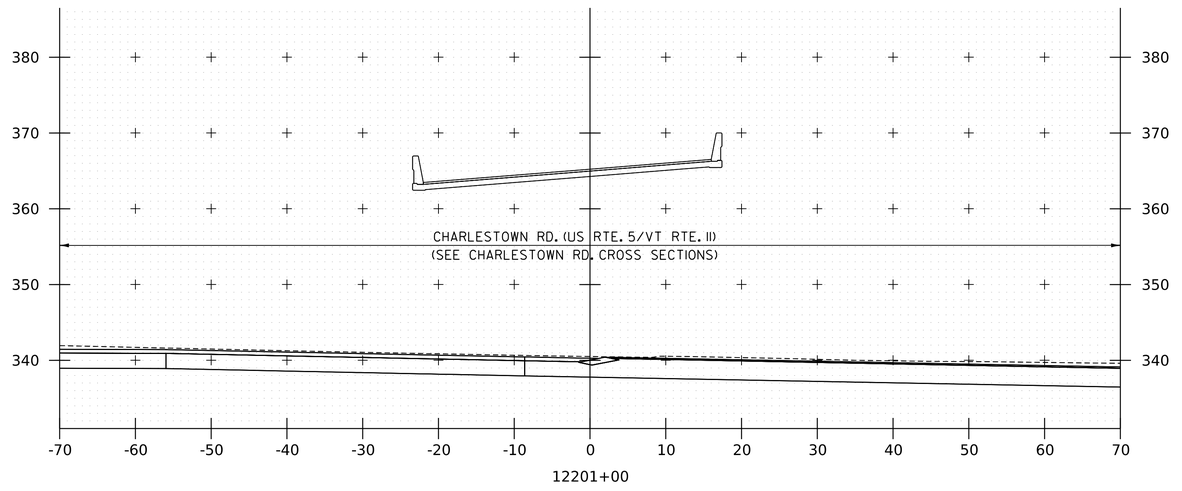
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 42	SHEET 274 OF 395

HNTB







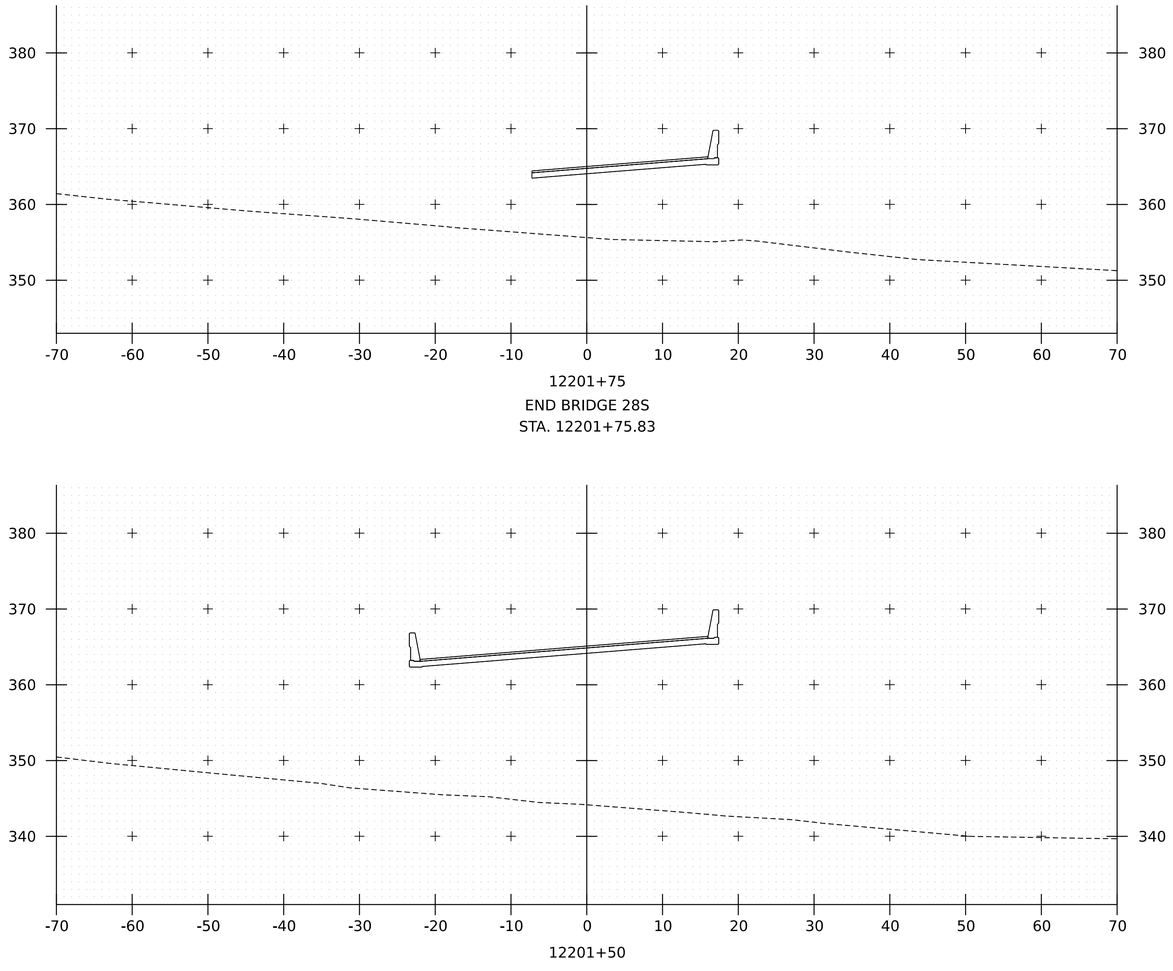


PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_I_91_SB.dgn•
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 43

PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 275 OF 395

HNTB



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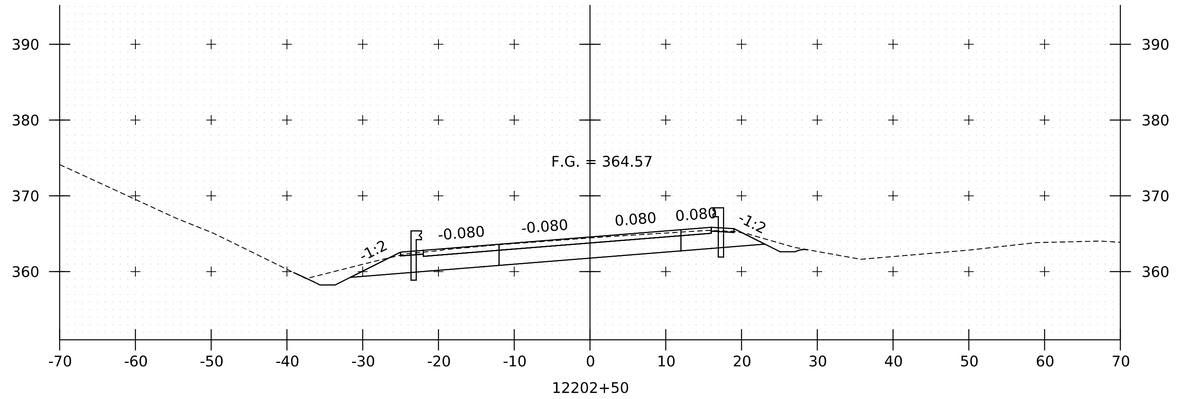
END BRIDGE 28S
STA. 12201+75.83

12201+50



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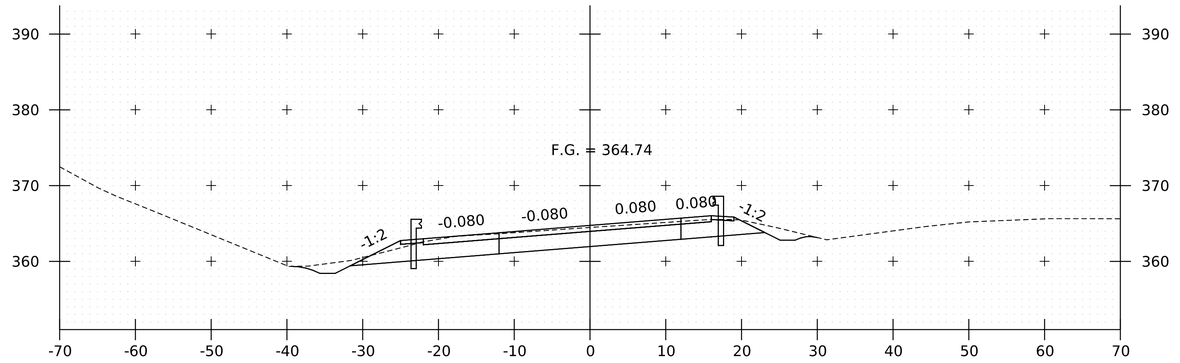

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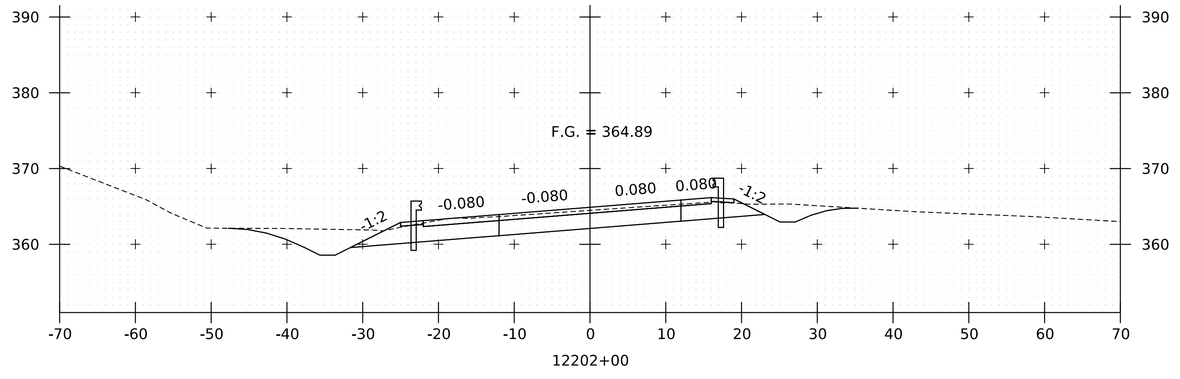
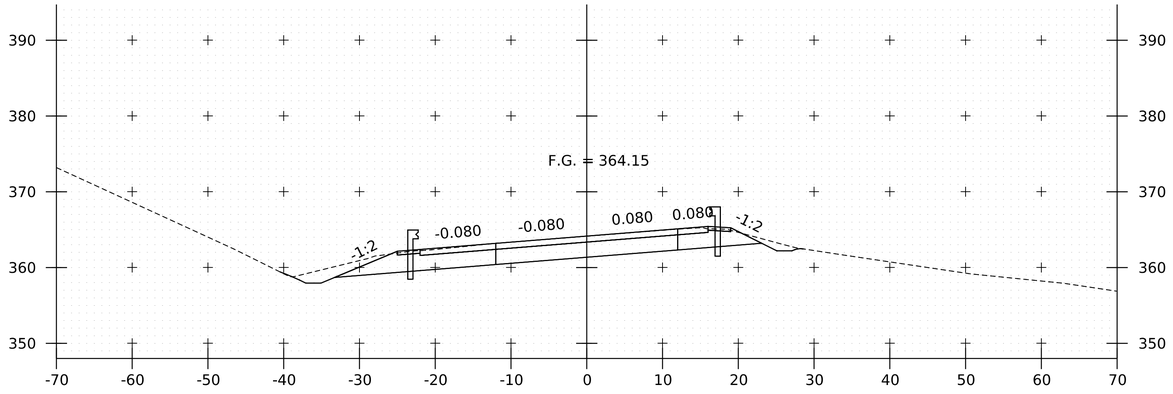


12202+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 44	SHEET 276 OF 395

HNTB



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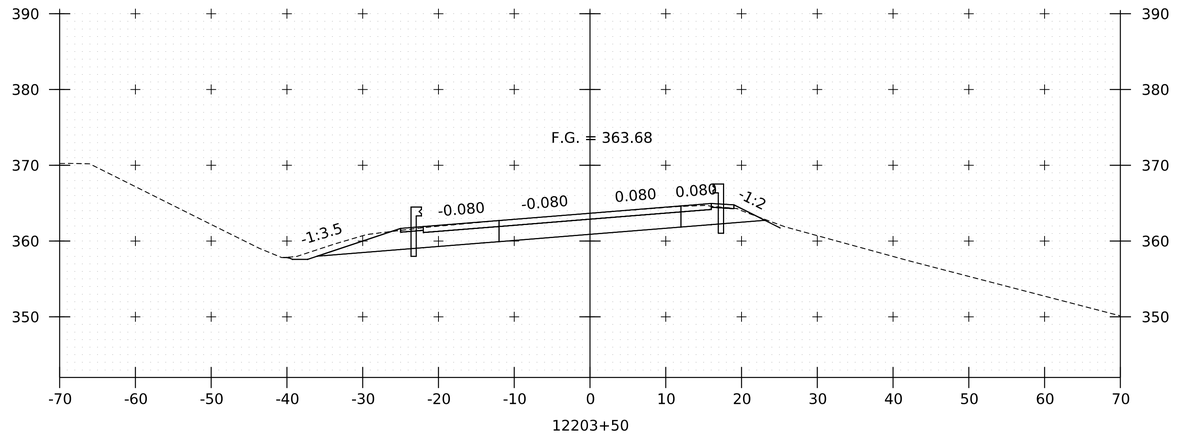

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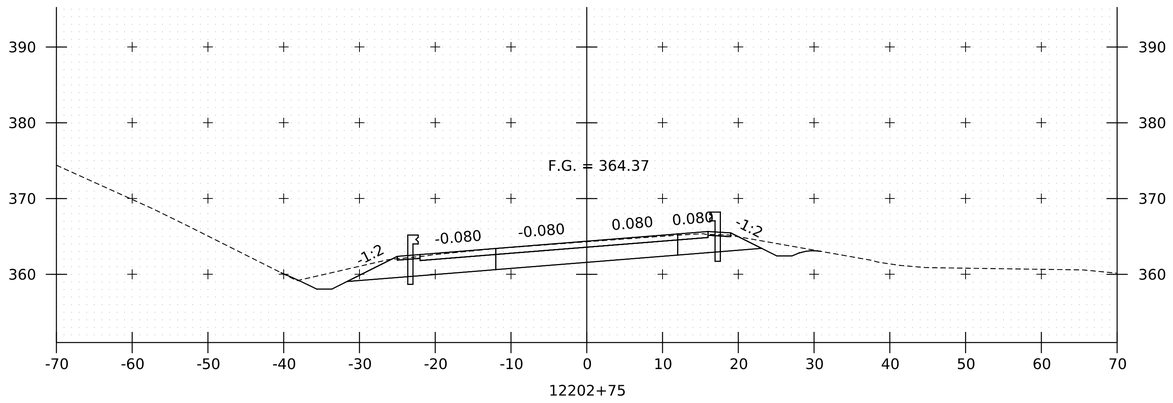

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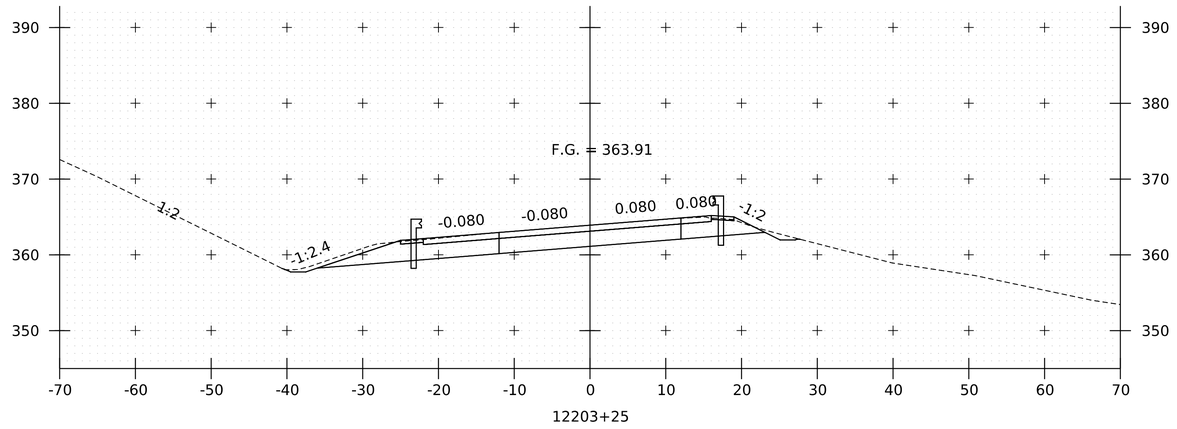
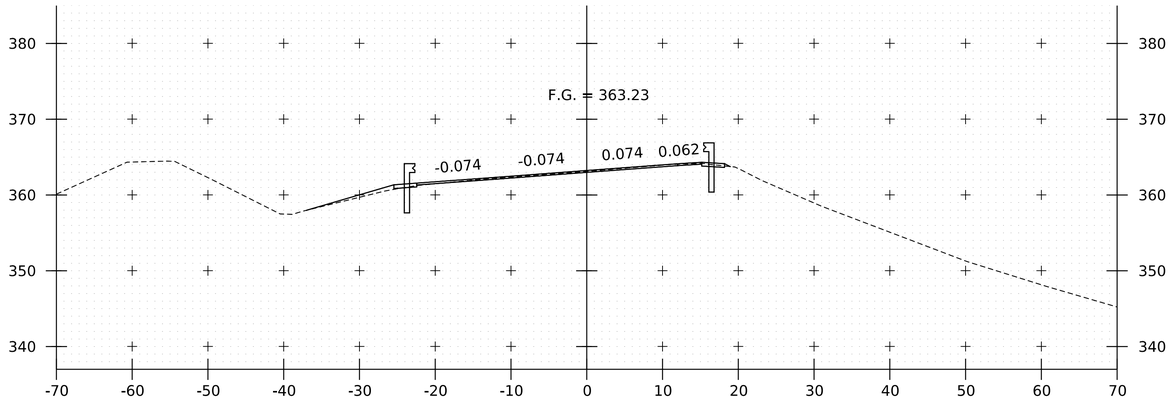


12203+25

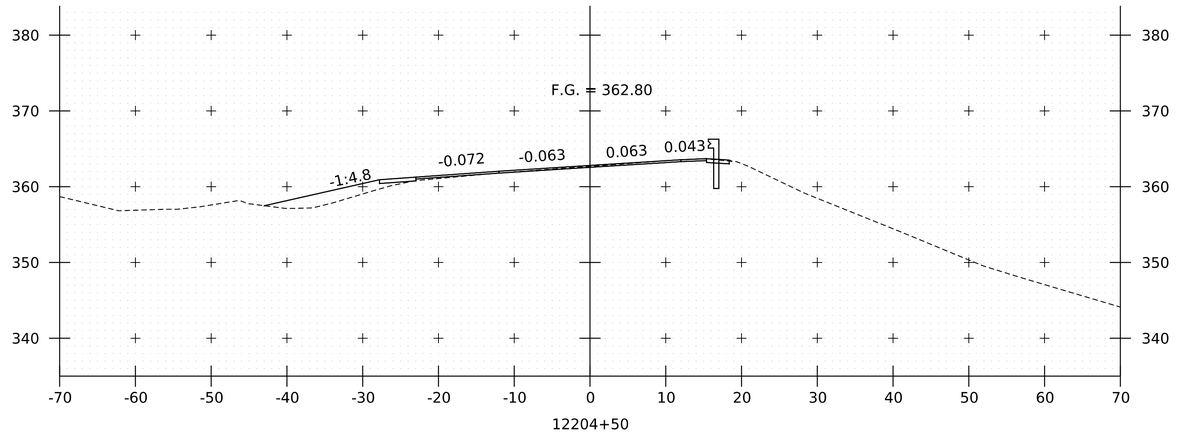
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

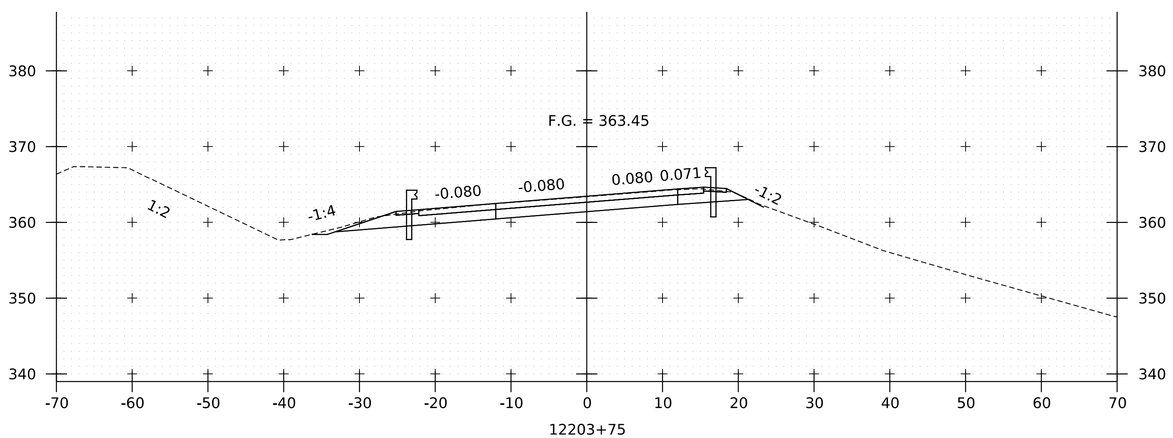
FILE NAME: z12a574xs_I_91_SB.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB CROSS SECTIONS 45

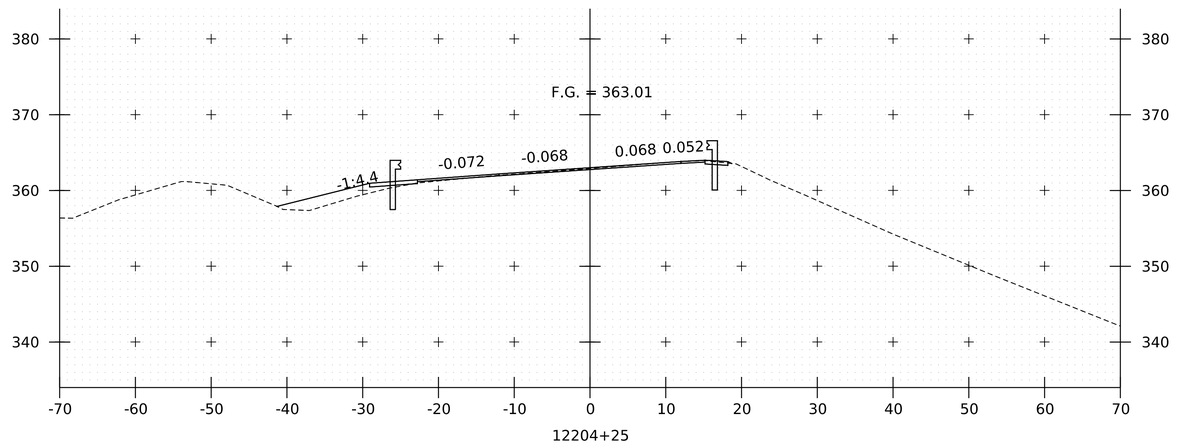
PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 277 OF 395



END SOUTHBOUND PROJECT

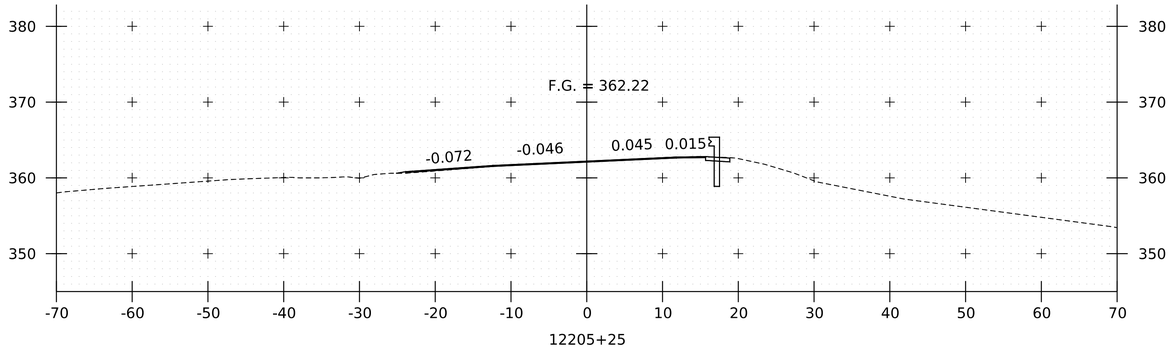


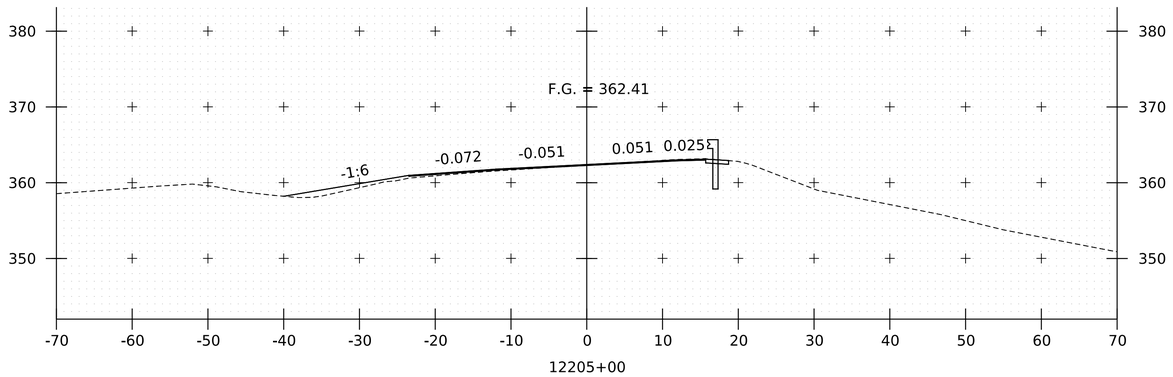


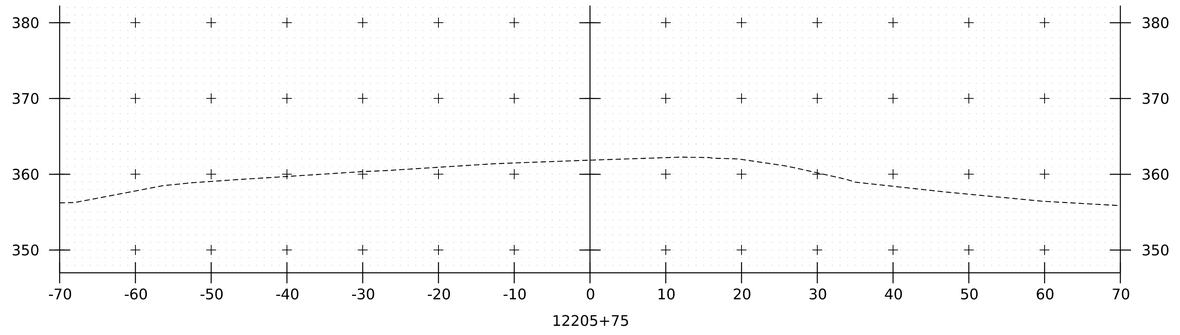


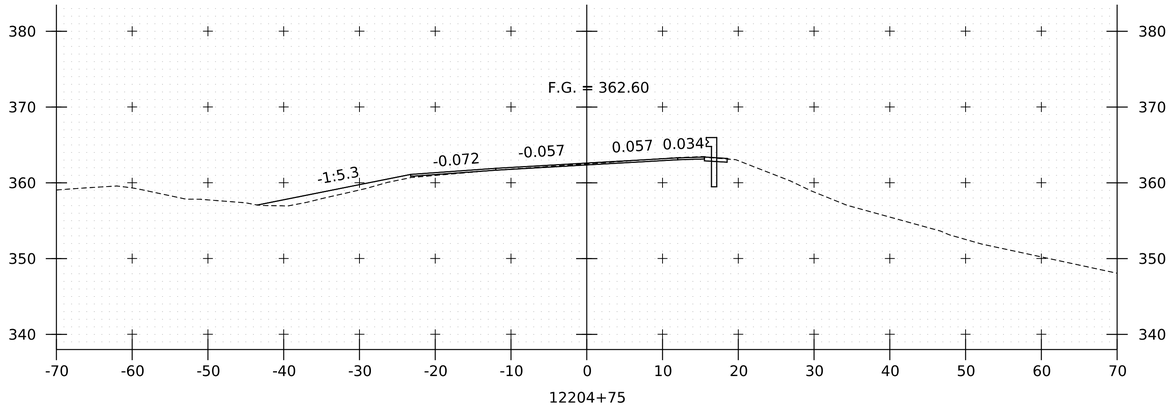
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 46	SHEET 278 OF 395

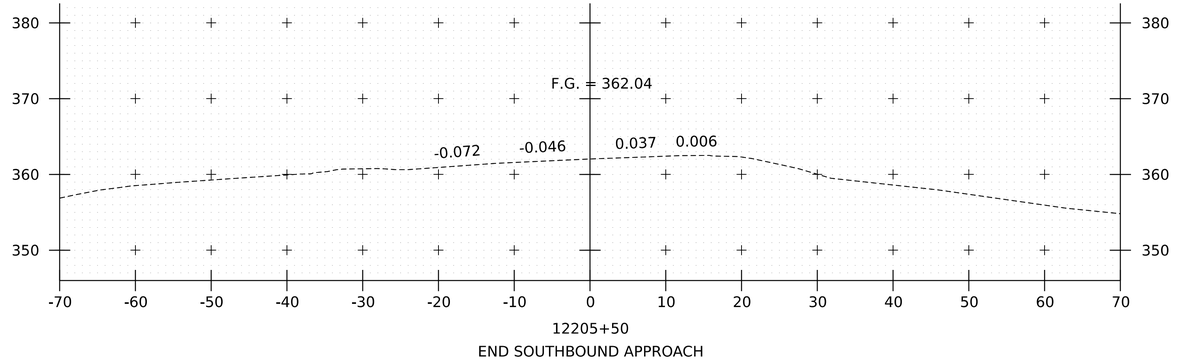
HNTB









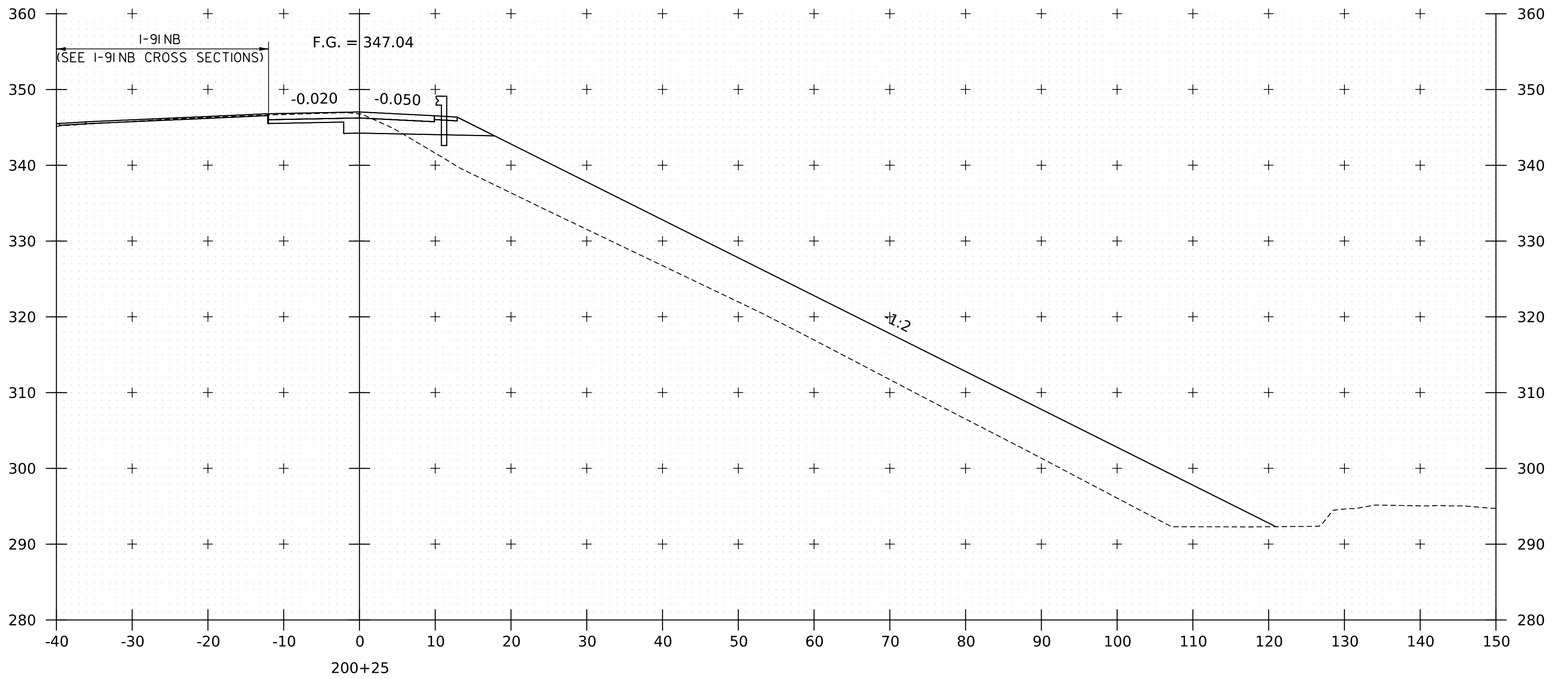


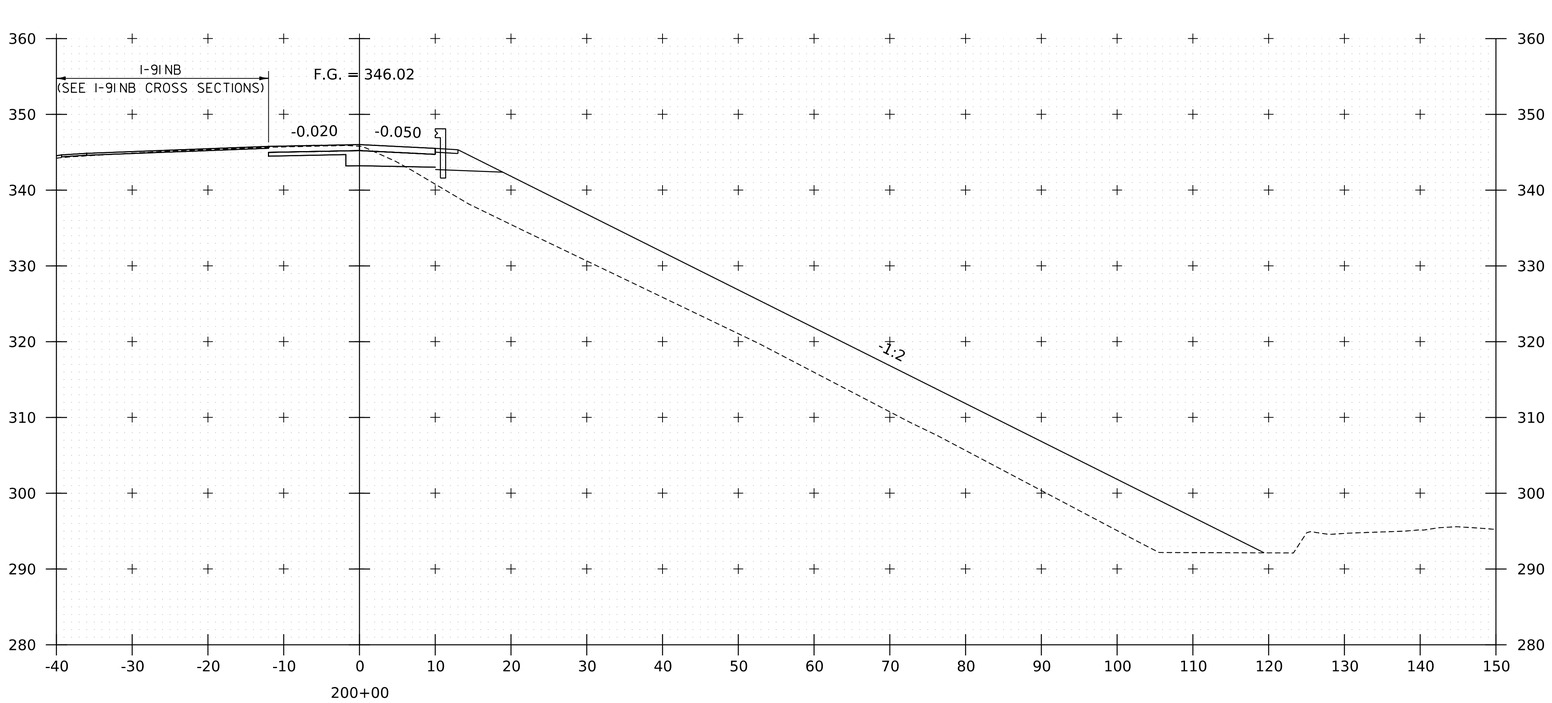
END SOUTHBOUND APPROACH
MATCH EXISTING

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574xs_I_91_SB.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB CROSS SECTIONS 47	SHEET 279 OF 395

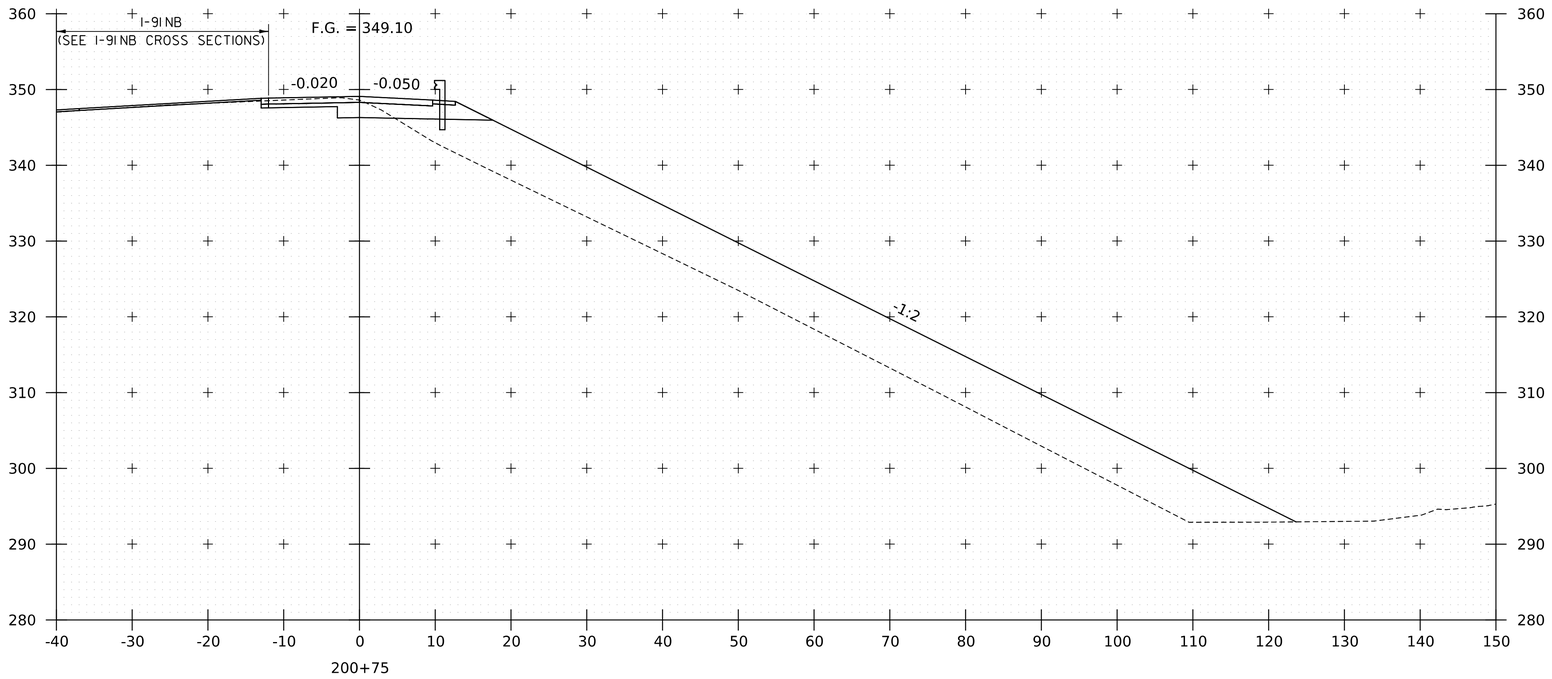
HNTB

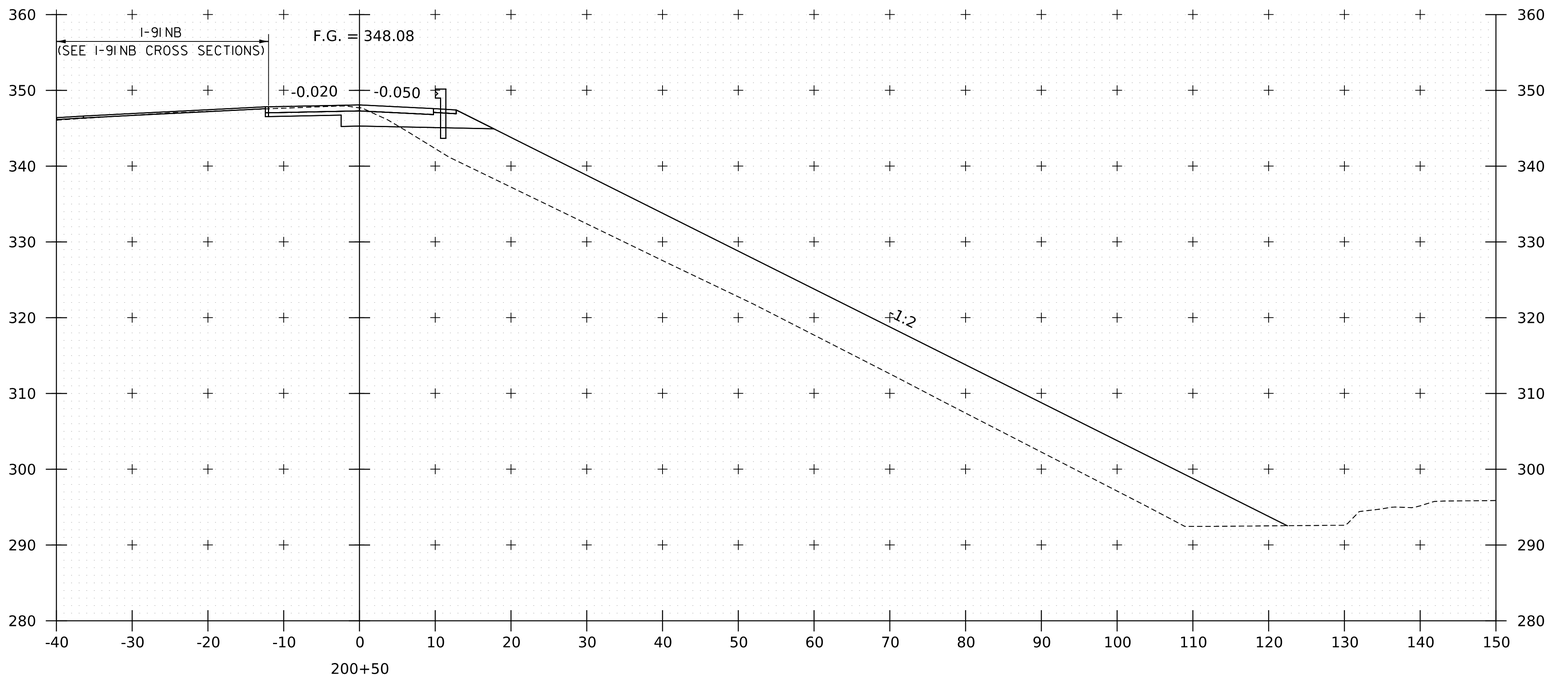




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91NB OFF RAMP CROSS SECTIONS 1	SHEET 280 OF 395

HNTB

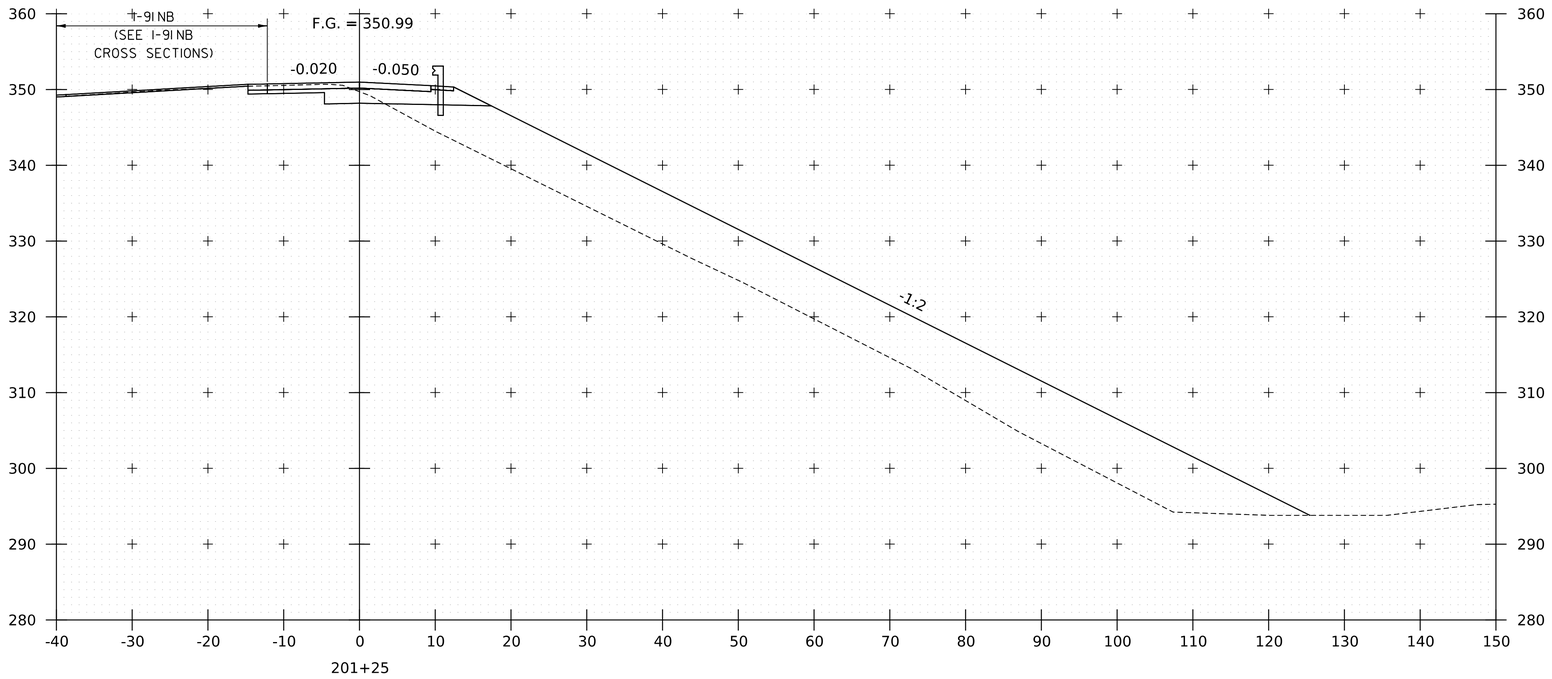


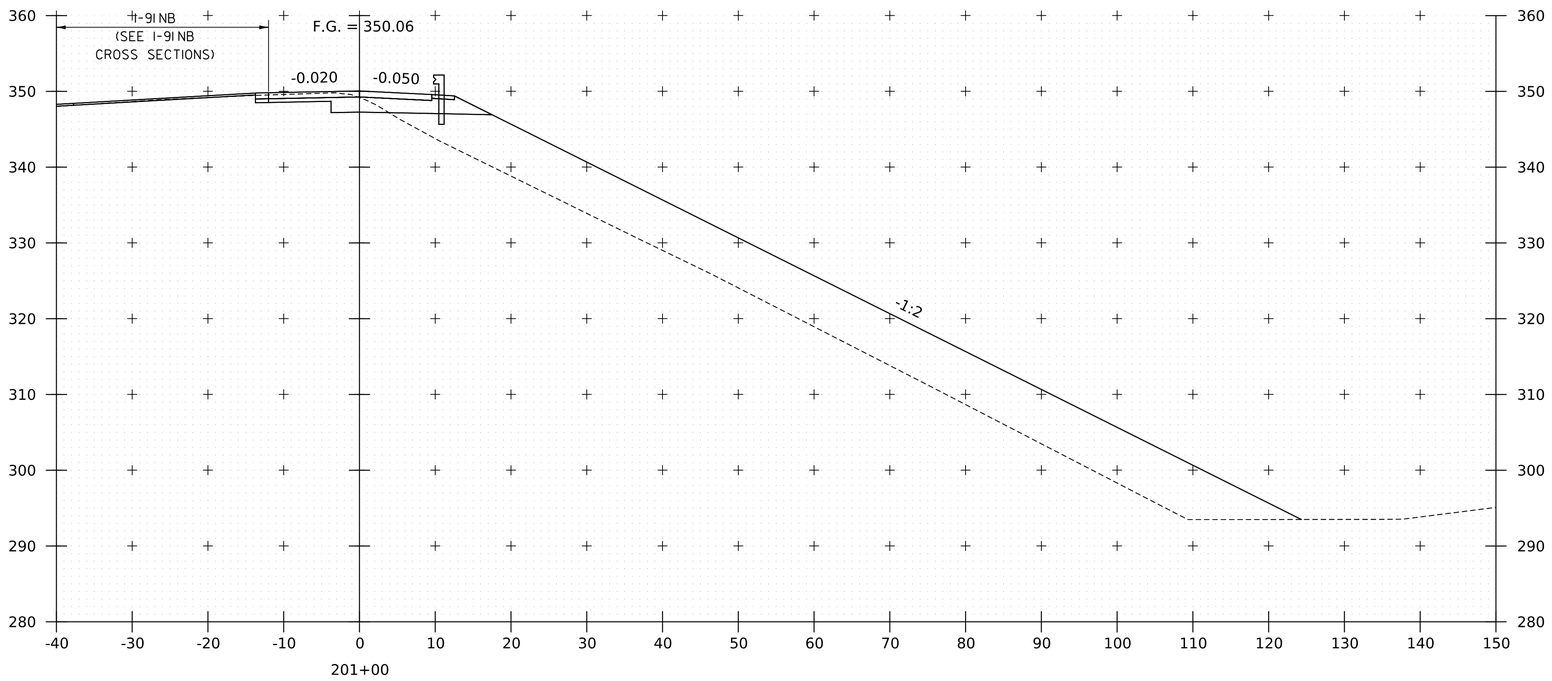


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn		PLOT DATE:	28-SEP-2022
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 2		SHEET	281 OF 395

HNTB

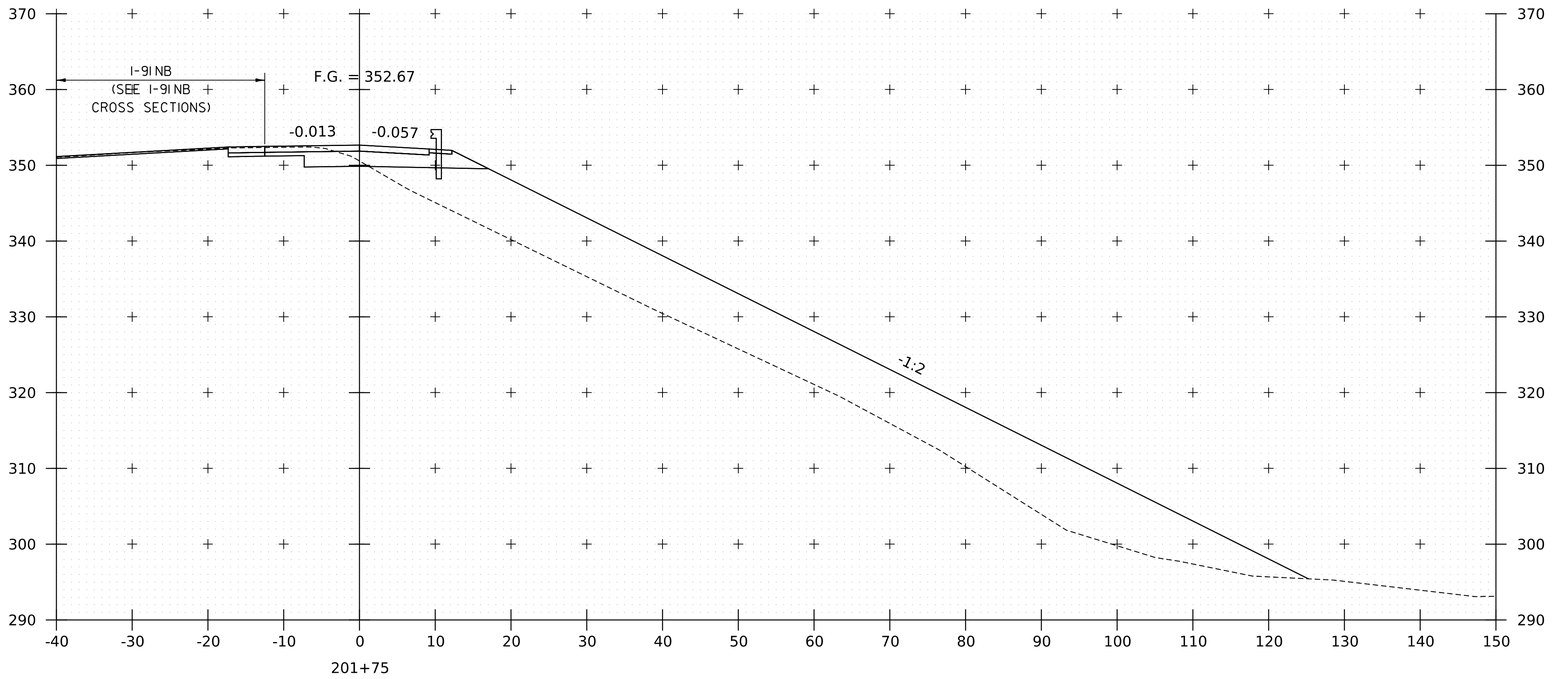


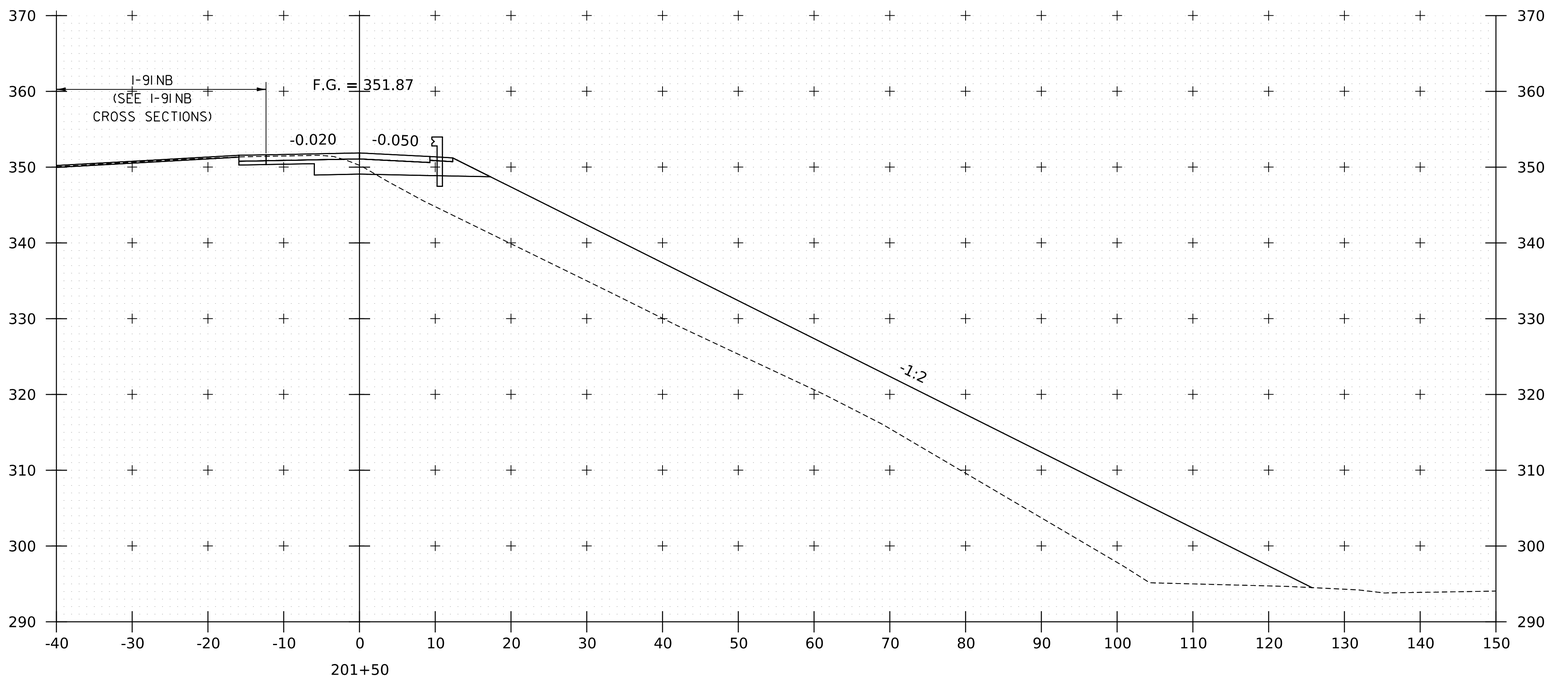


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn		PLOT DATE:	28-SEP-2022
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 3		SHEET	282 OF 395

HNTB

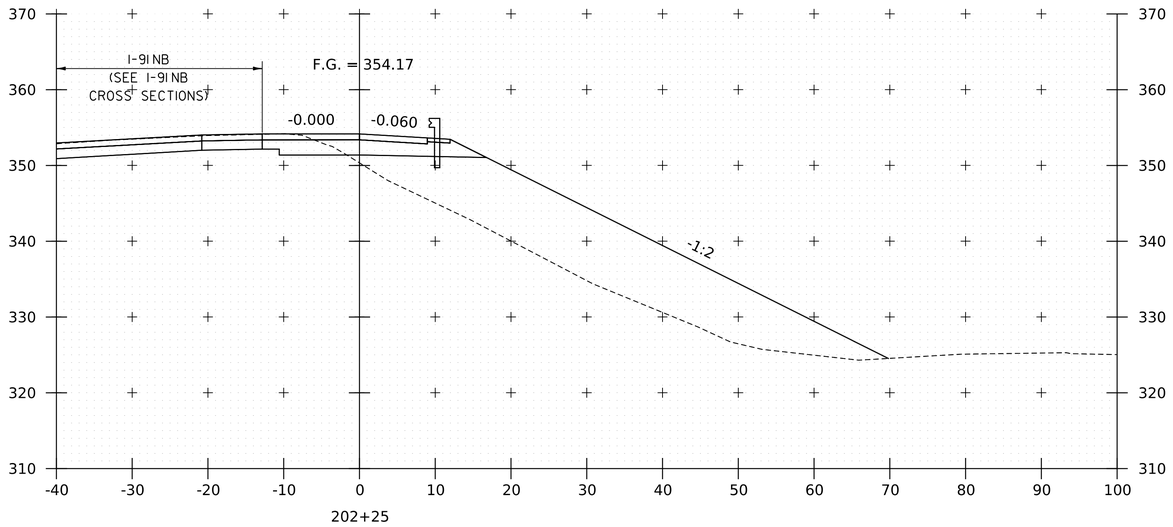


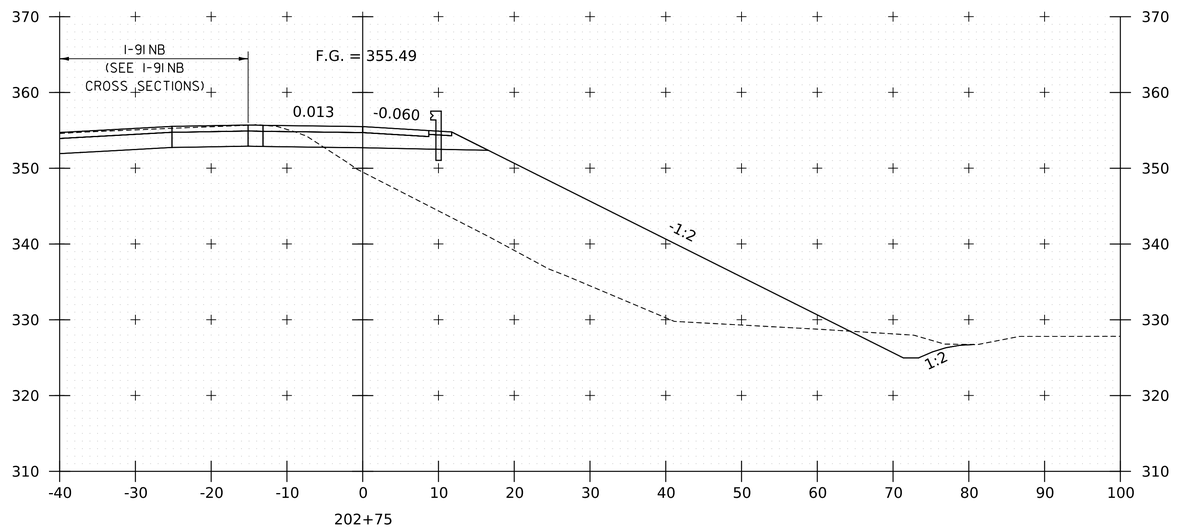


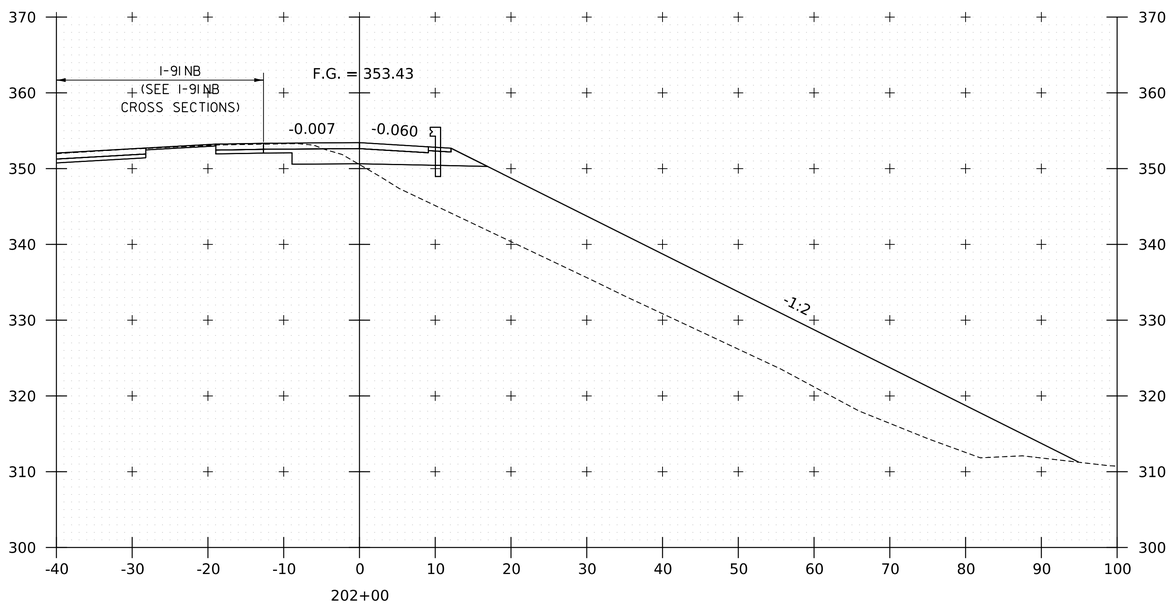
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

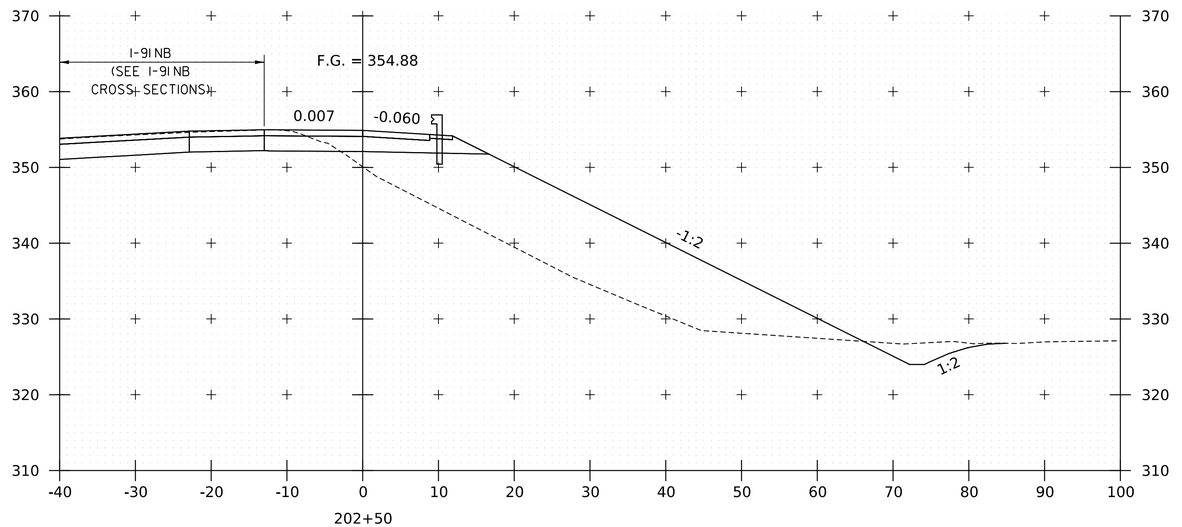
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn		PLOT DATE:	28-SEP-2022
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 4		SHEET	283 OF 395

HNTB



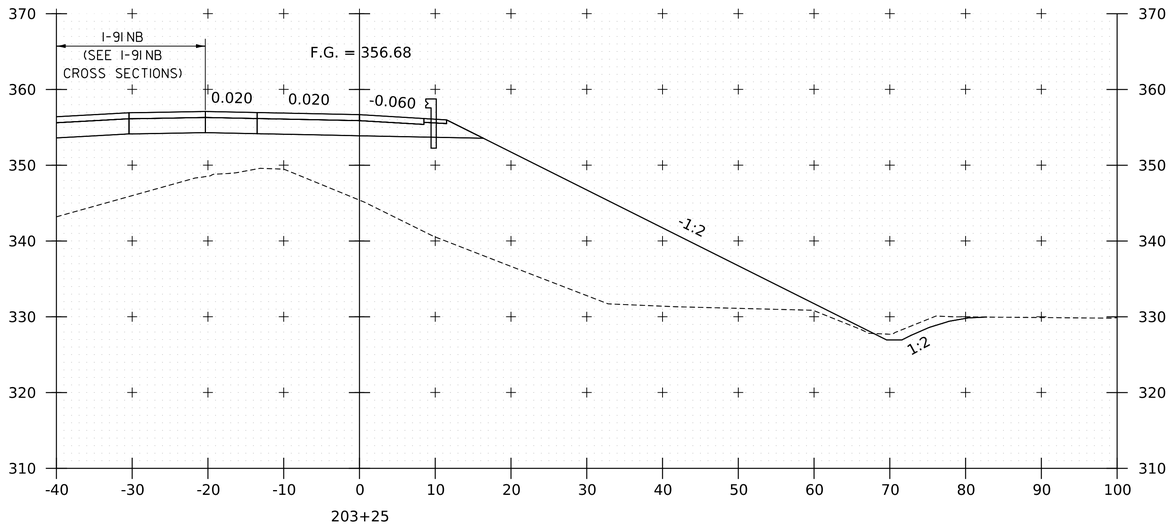


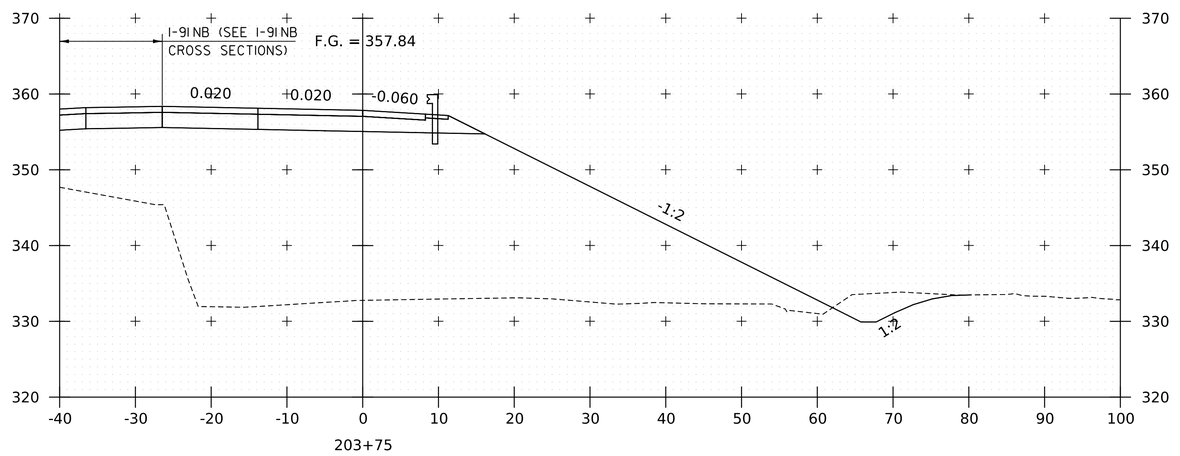


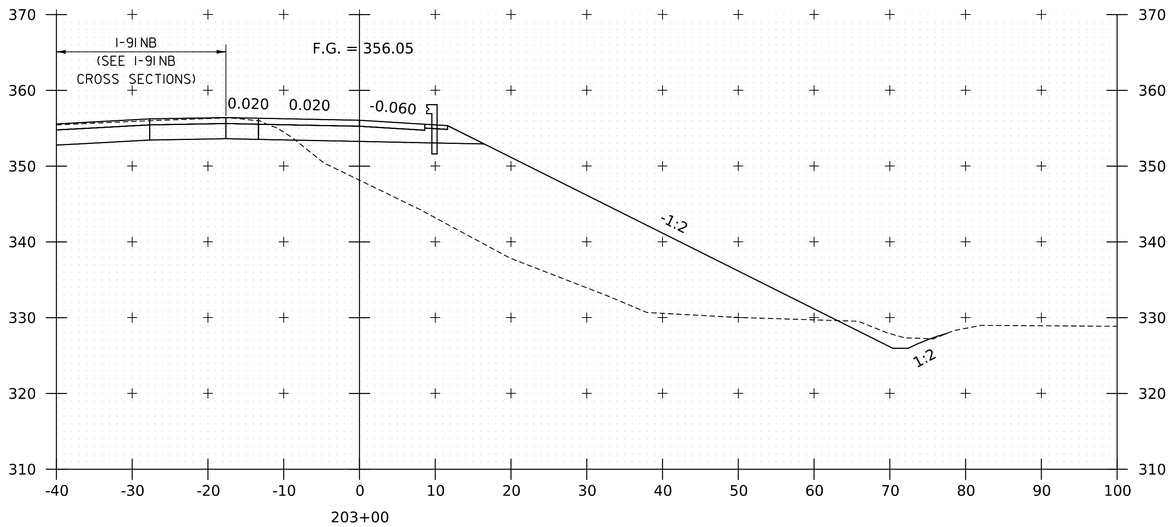


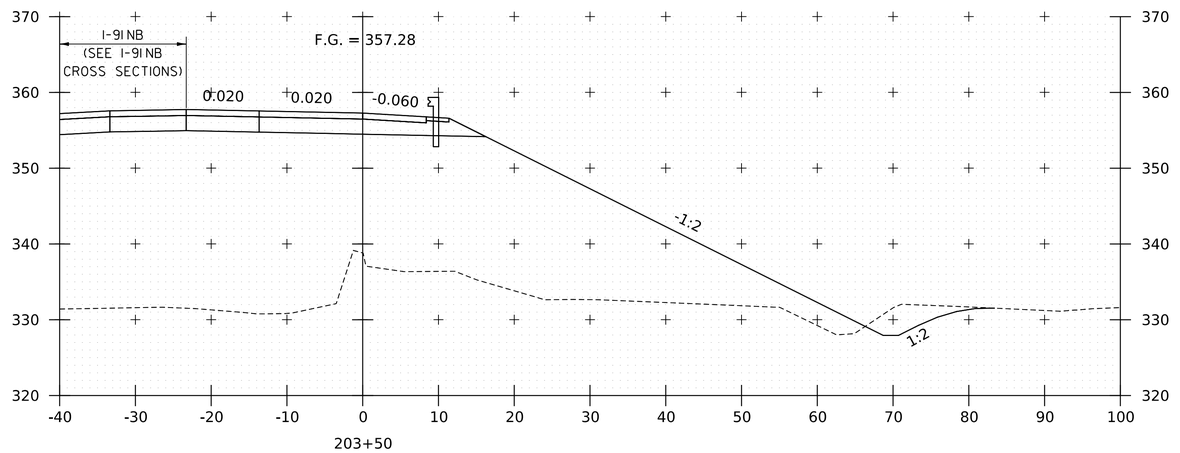
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 5	SHEET 284 OF 395

HNTB





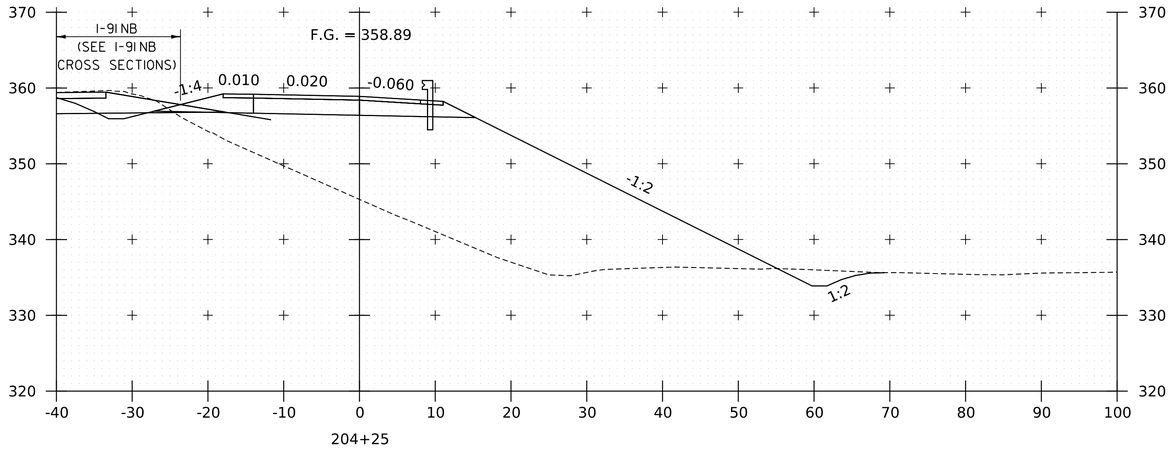




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_I-91_NB_Off_Ramp.dgn		PLOT DATE:	28-SEP-2022
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 6		SHEET	285 OF 395

HNTB



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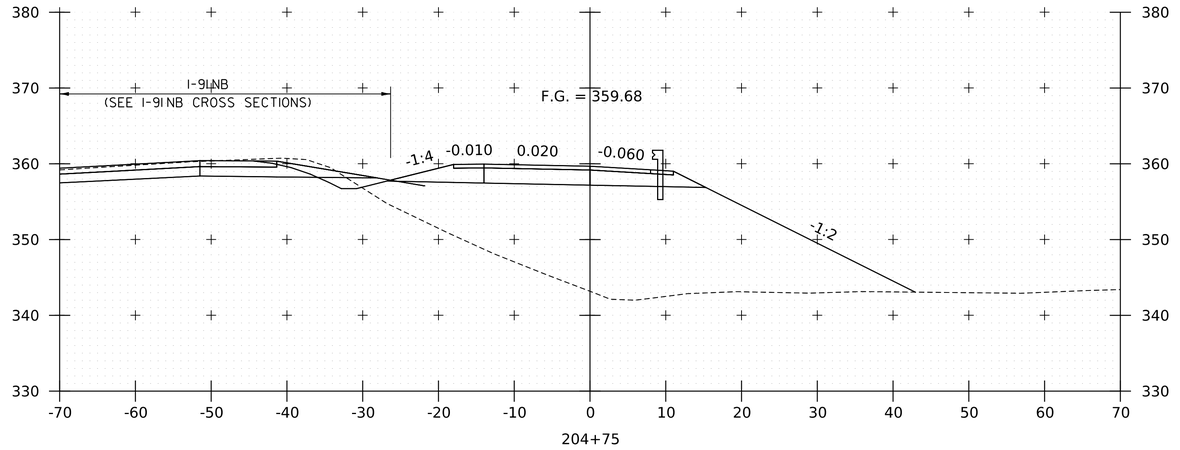

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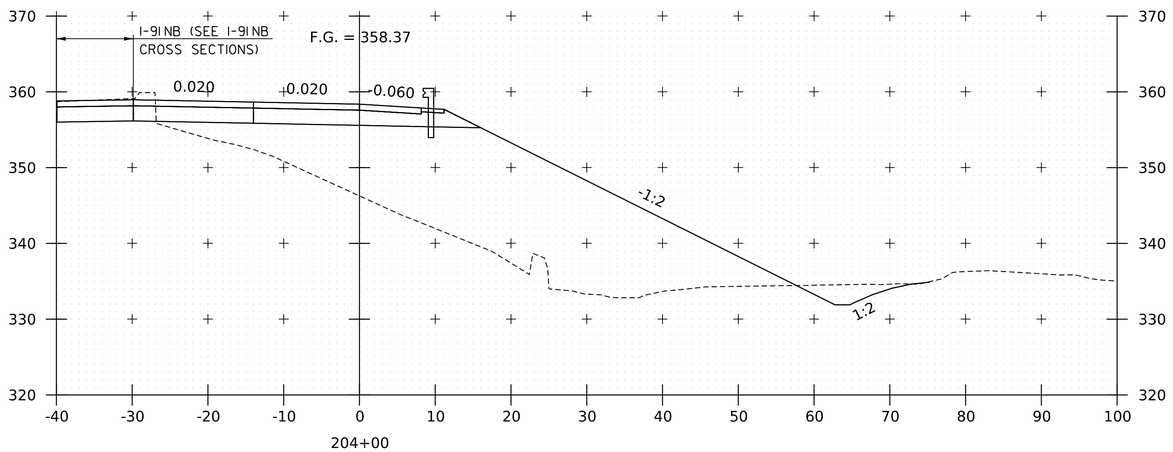

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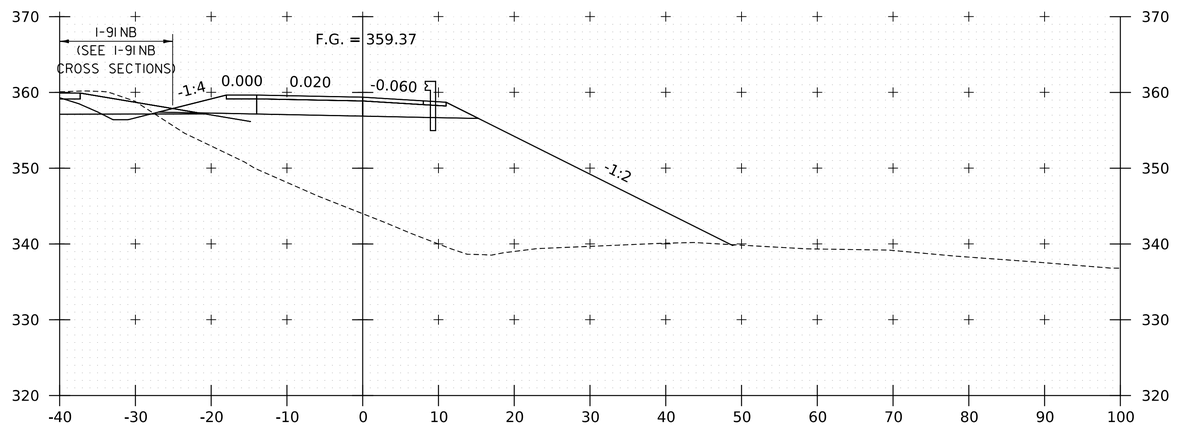
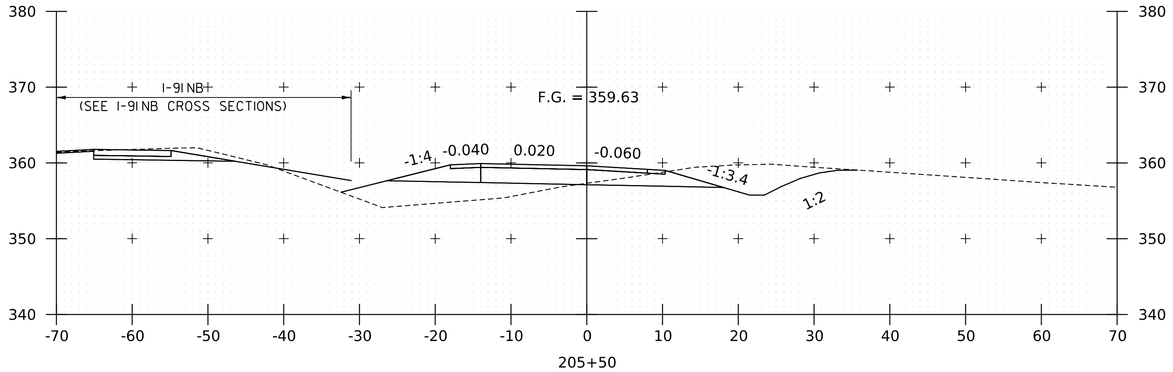


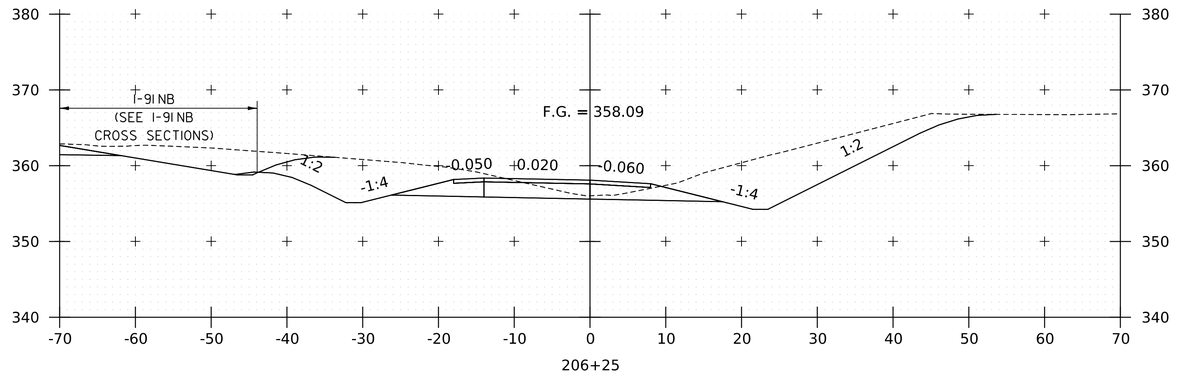
204+50

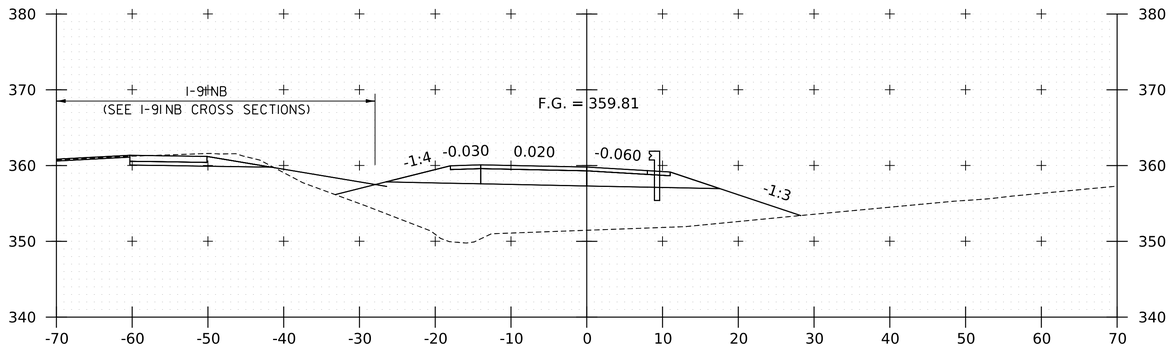
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

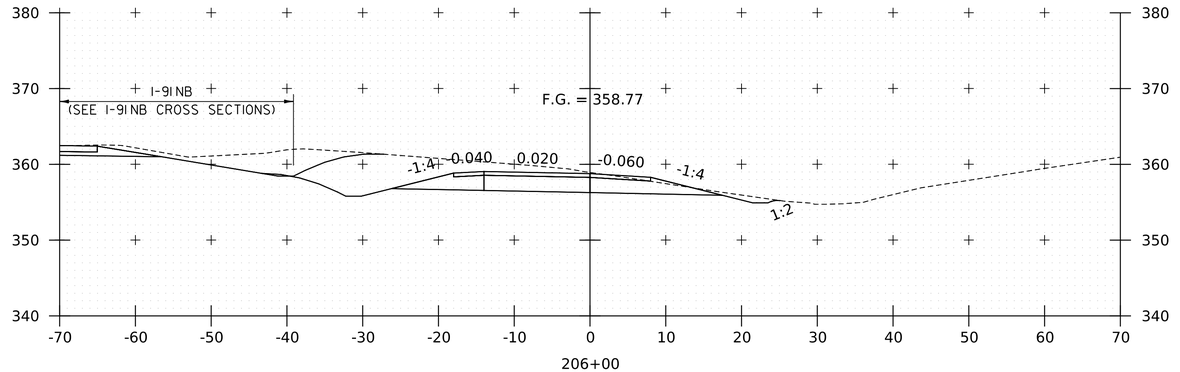
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn		PLOT DATE:	28-SEP-2022
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 7		SHEET	286 OF 395

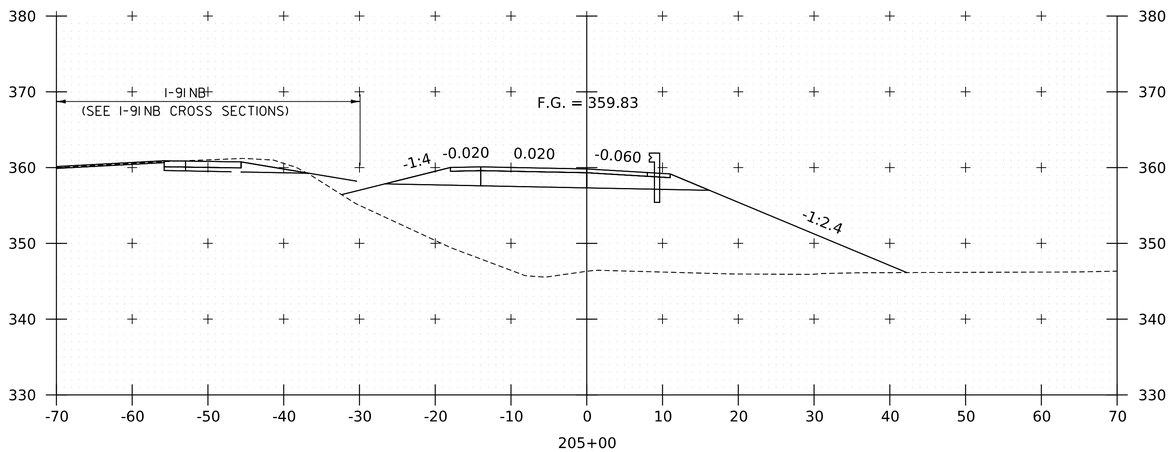
HNTB

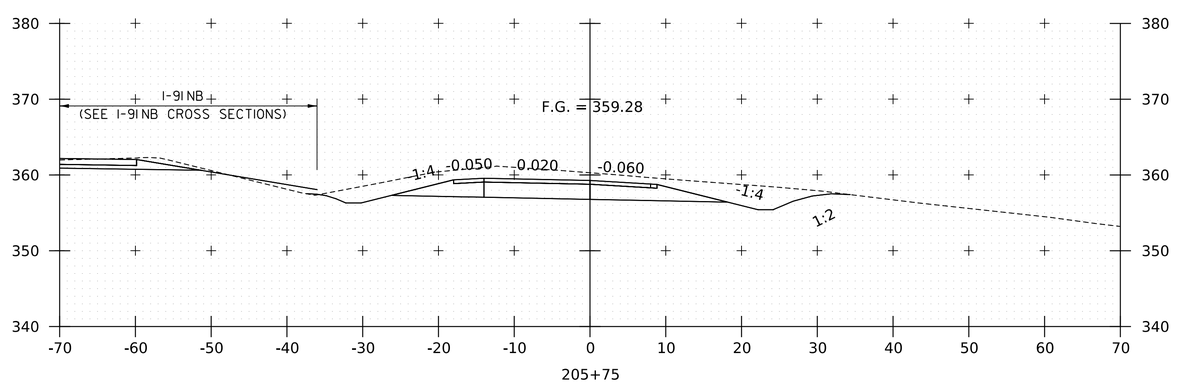






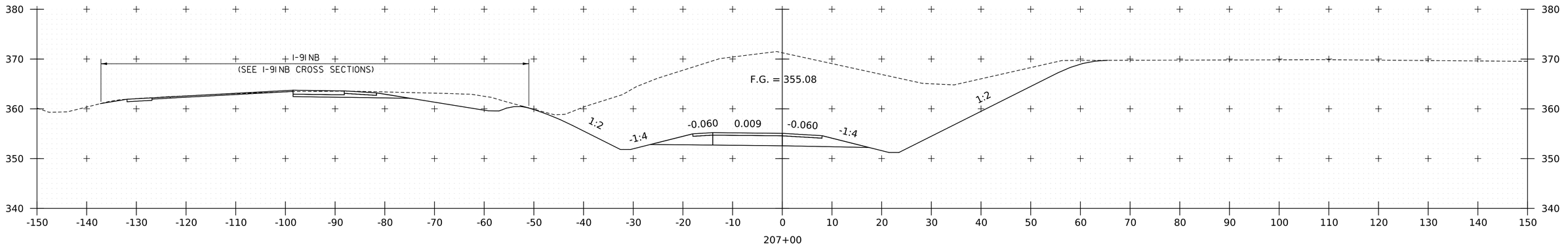


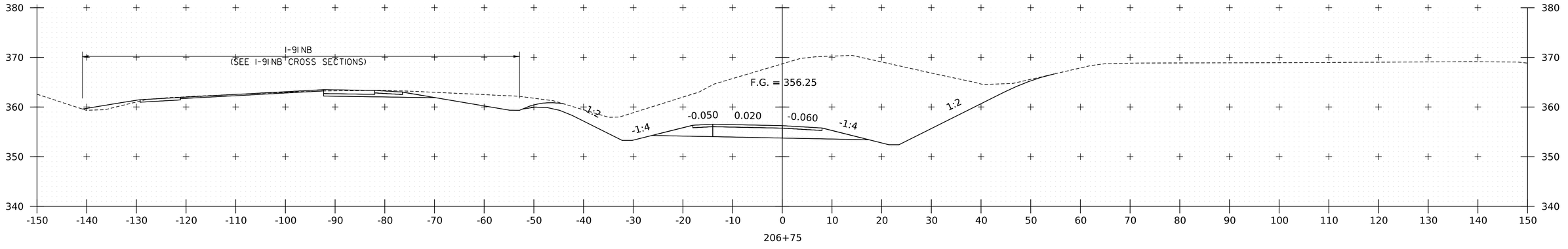


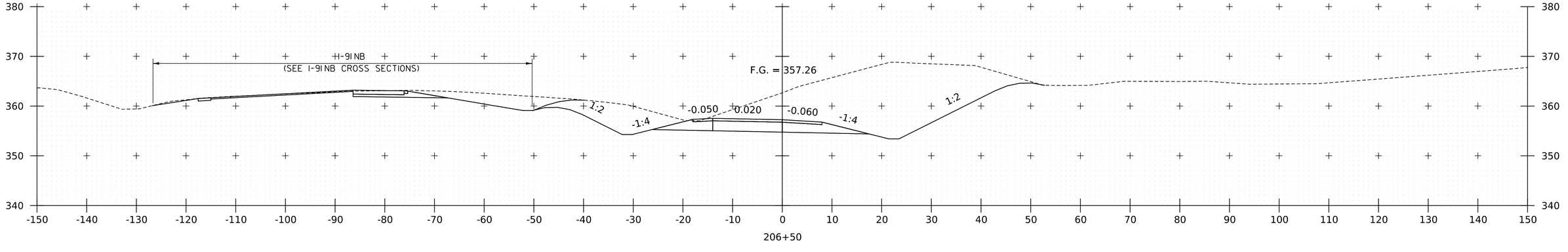


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 8	SHEET 287 OF 395

HNTB

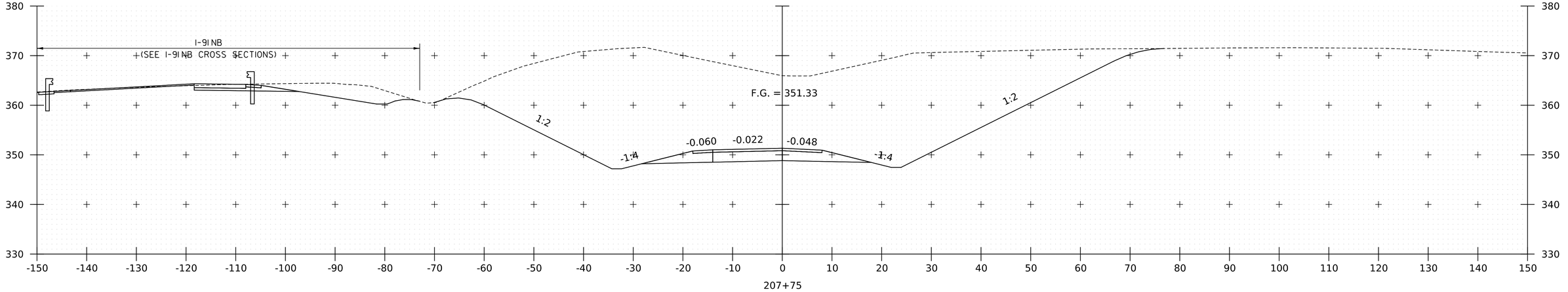


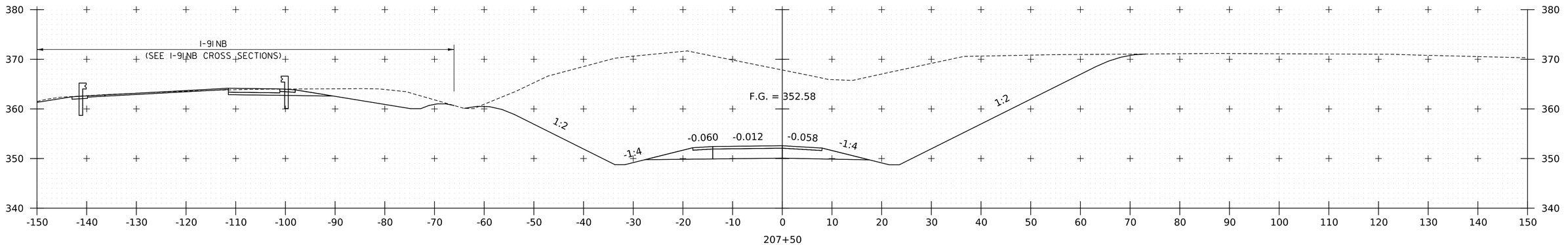


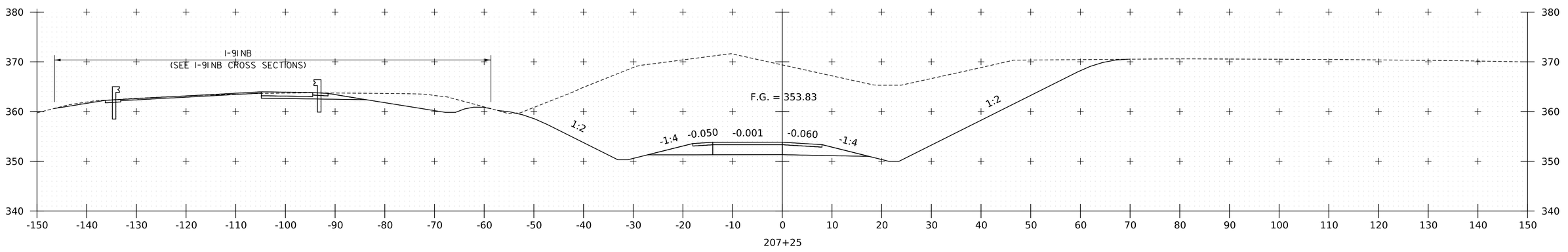


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91NB OFF RAMP CROSS SECTIONS 9	SHEET 288 OF 395

HNTB

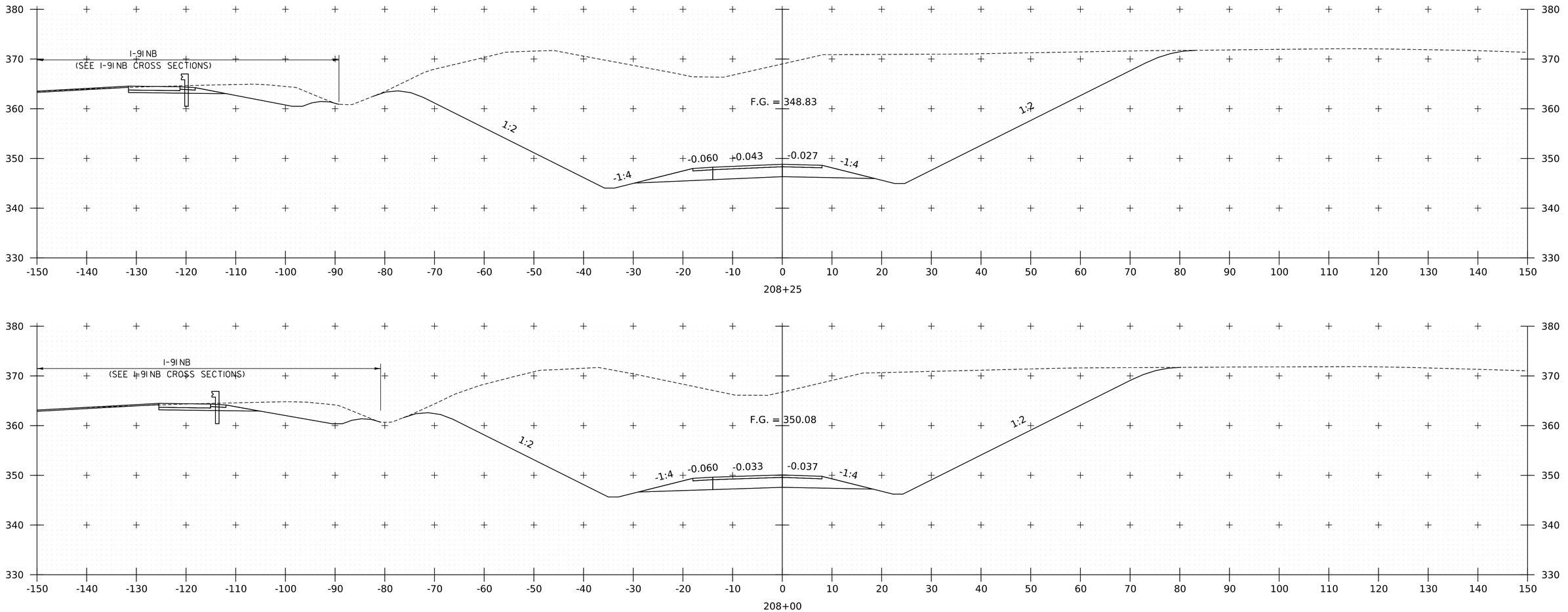






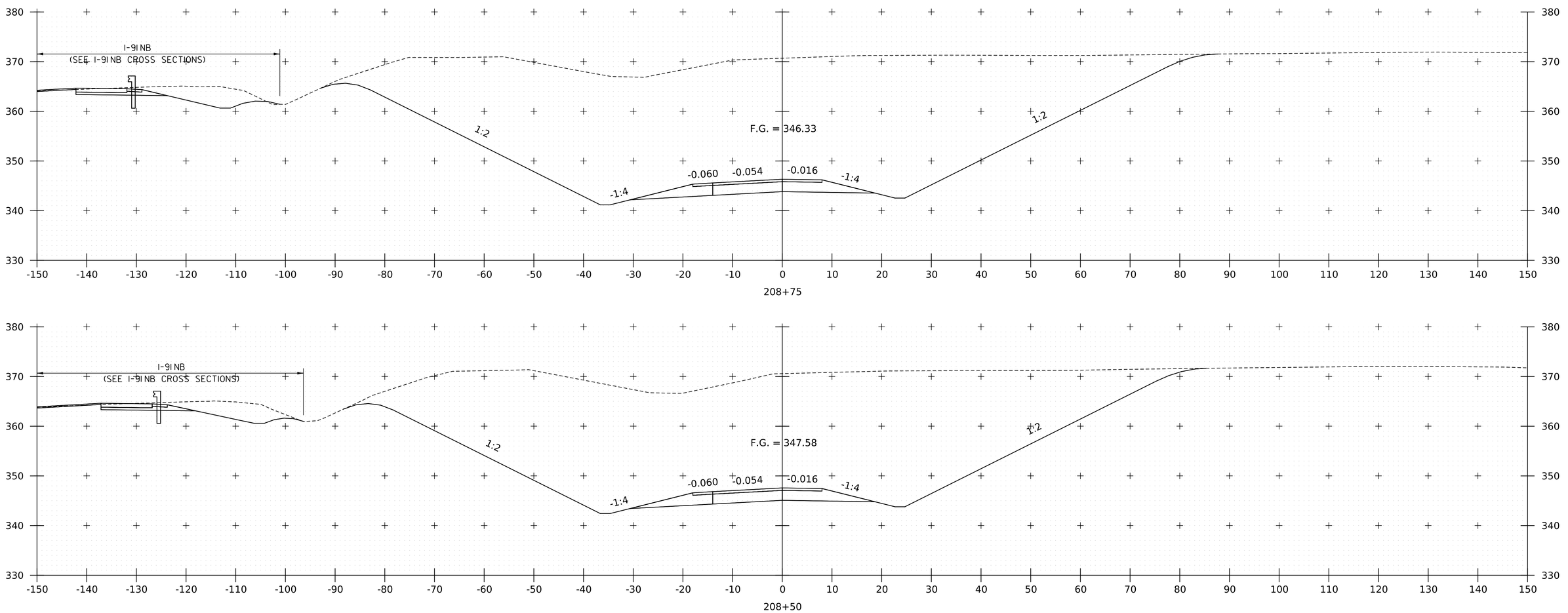
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 10	SHEET 289 OF 395

HNTB



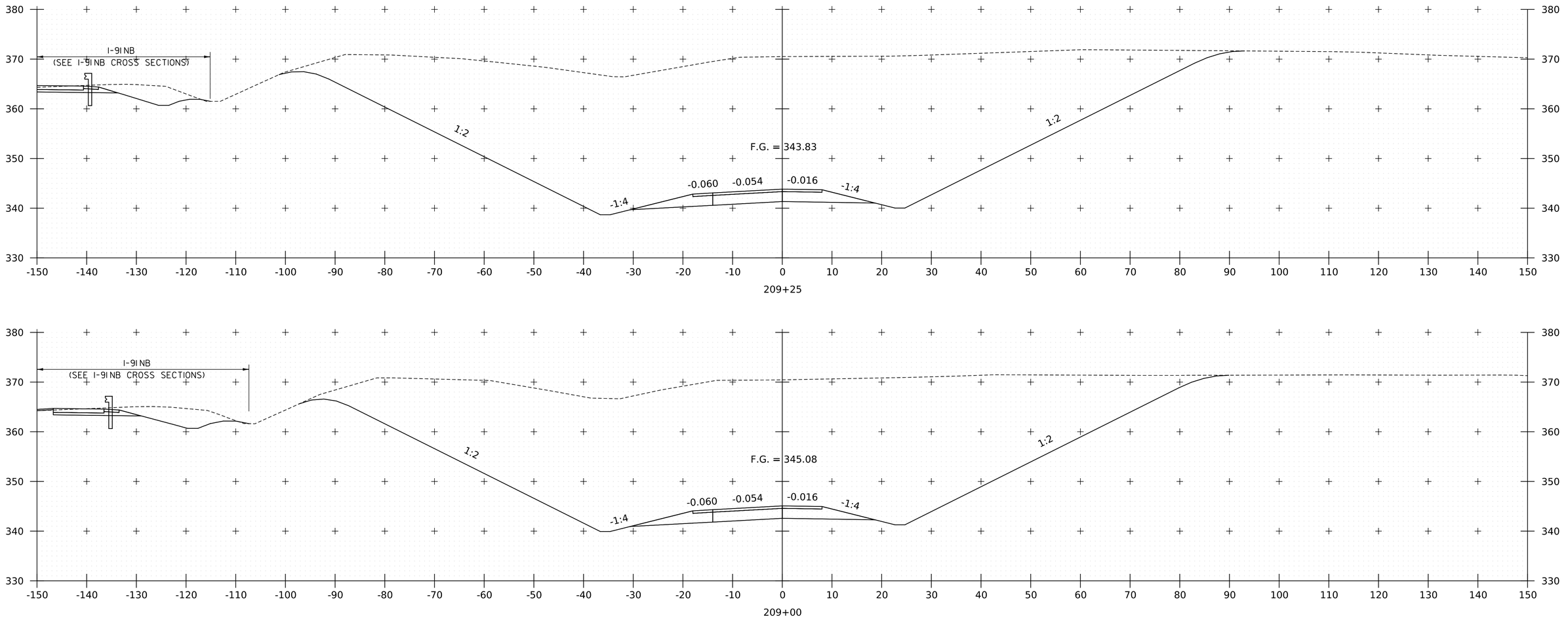
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS II	SHEET 290 OF 395

HNTB



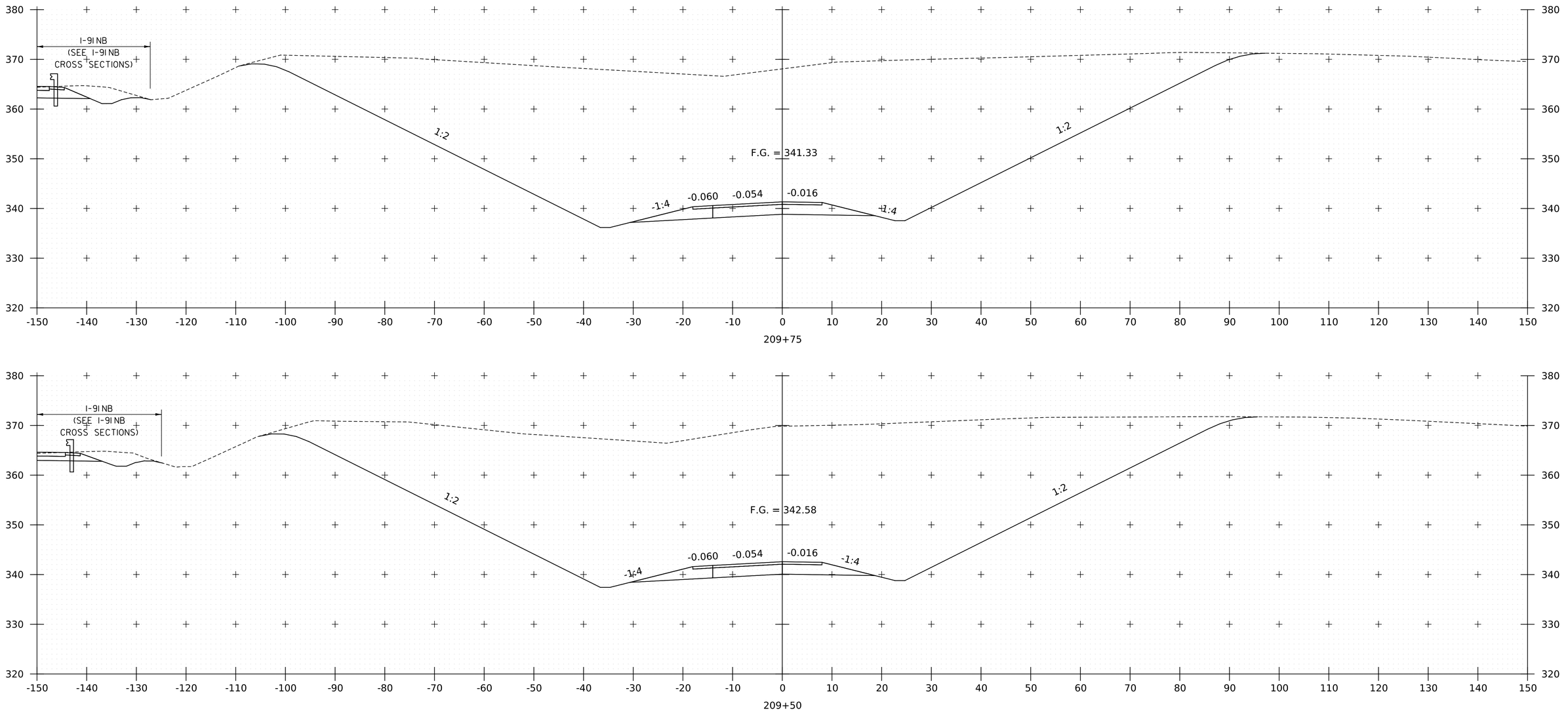
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 12	SHEET 291 OF 395

HNTB



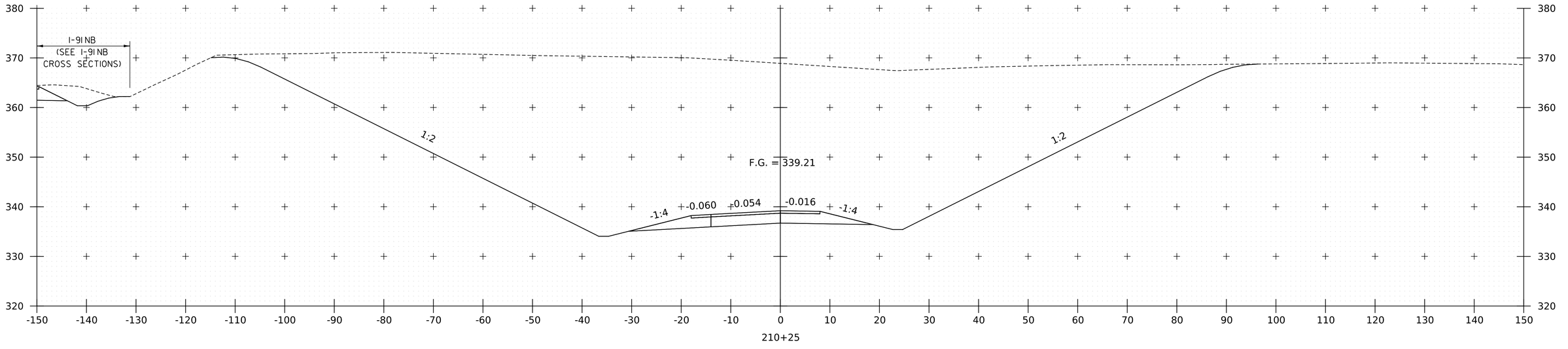
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 13	SHEET 292 OF 395

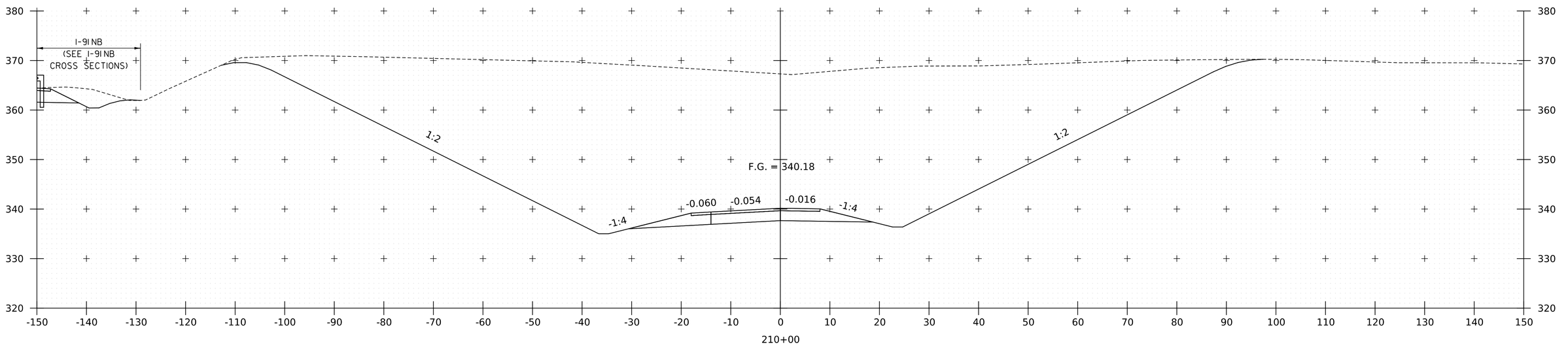
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 14	SHEET 293 OF 395

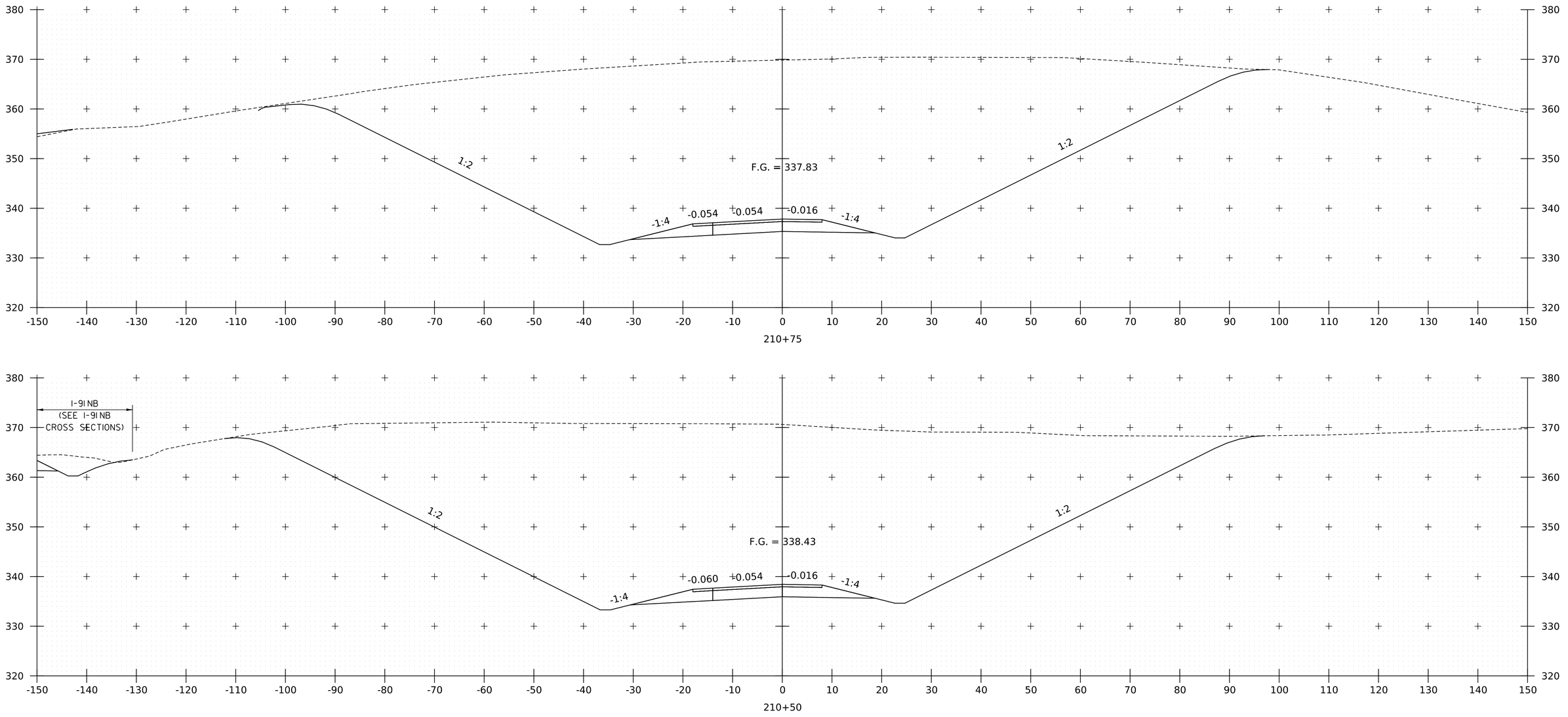
HNTB





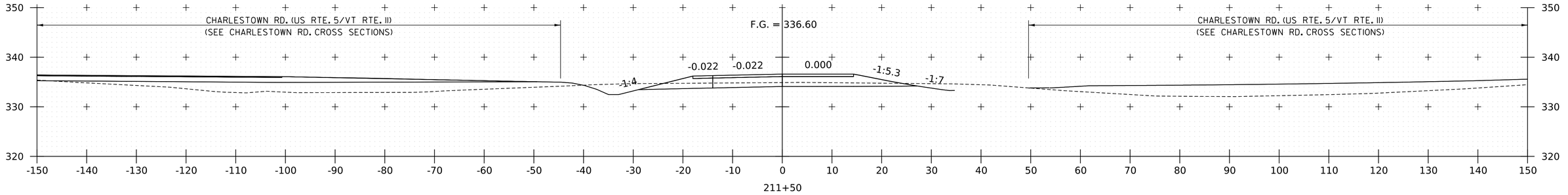
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91NB OFF RAMP CROSS SECTIONS I5	SHEET 294 OF 395

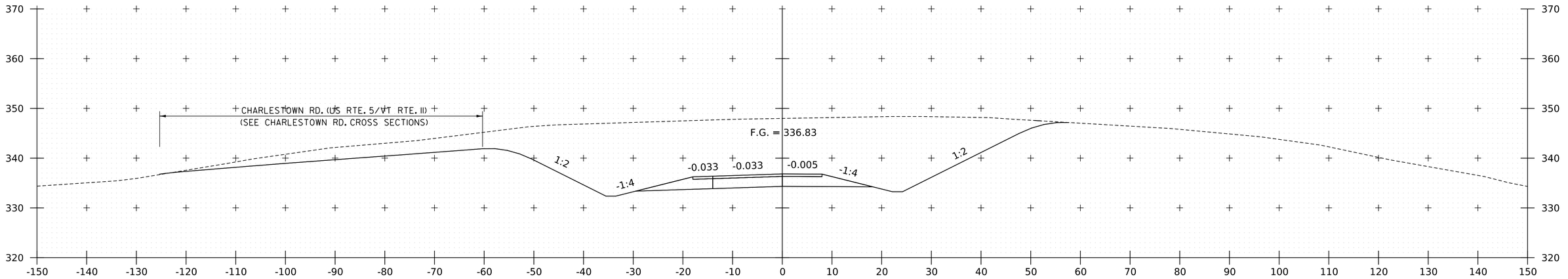
HNTB

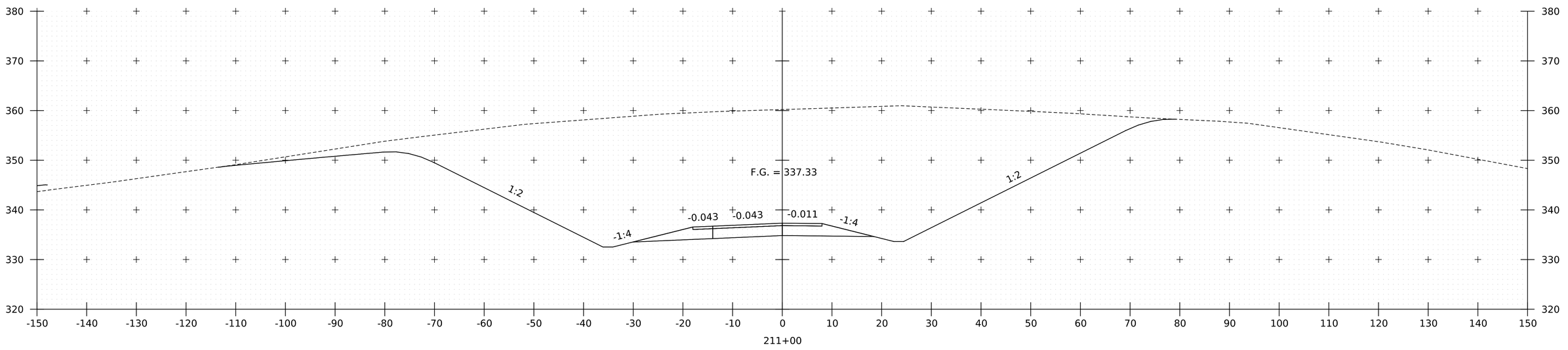


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 16	SHEET 295 OF 395

HNTB



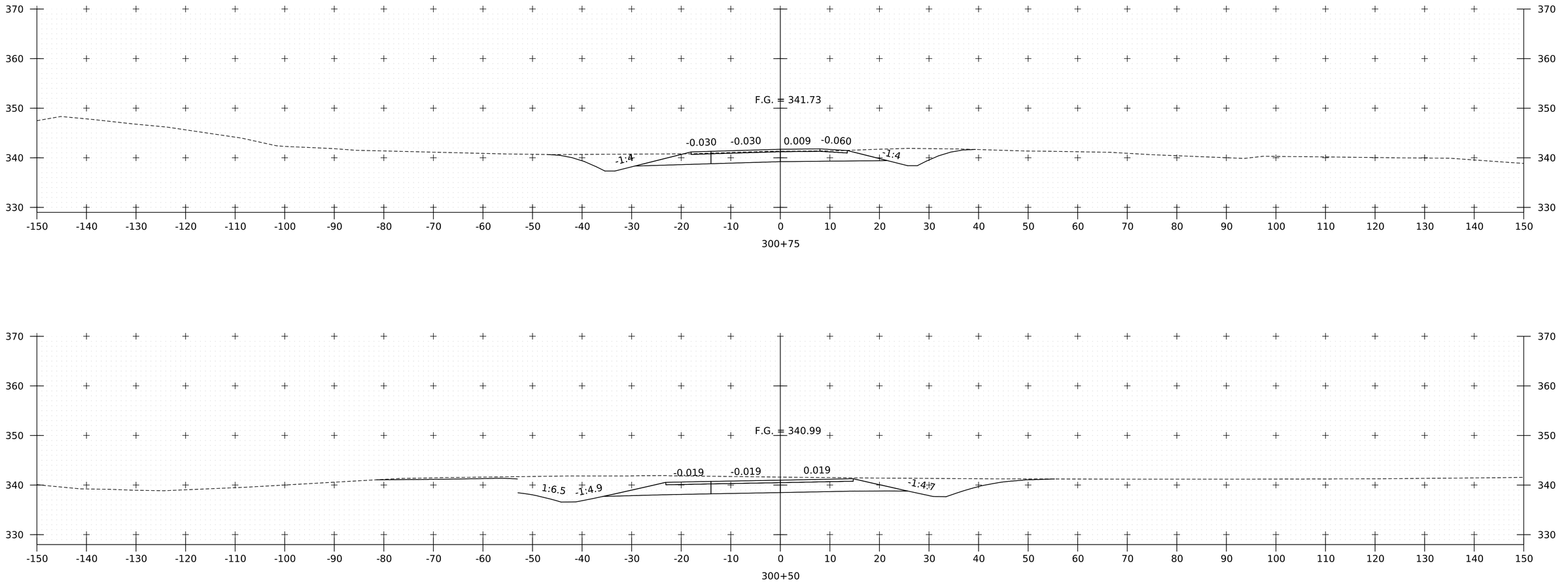




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

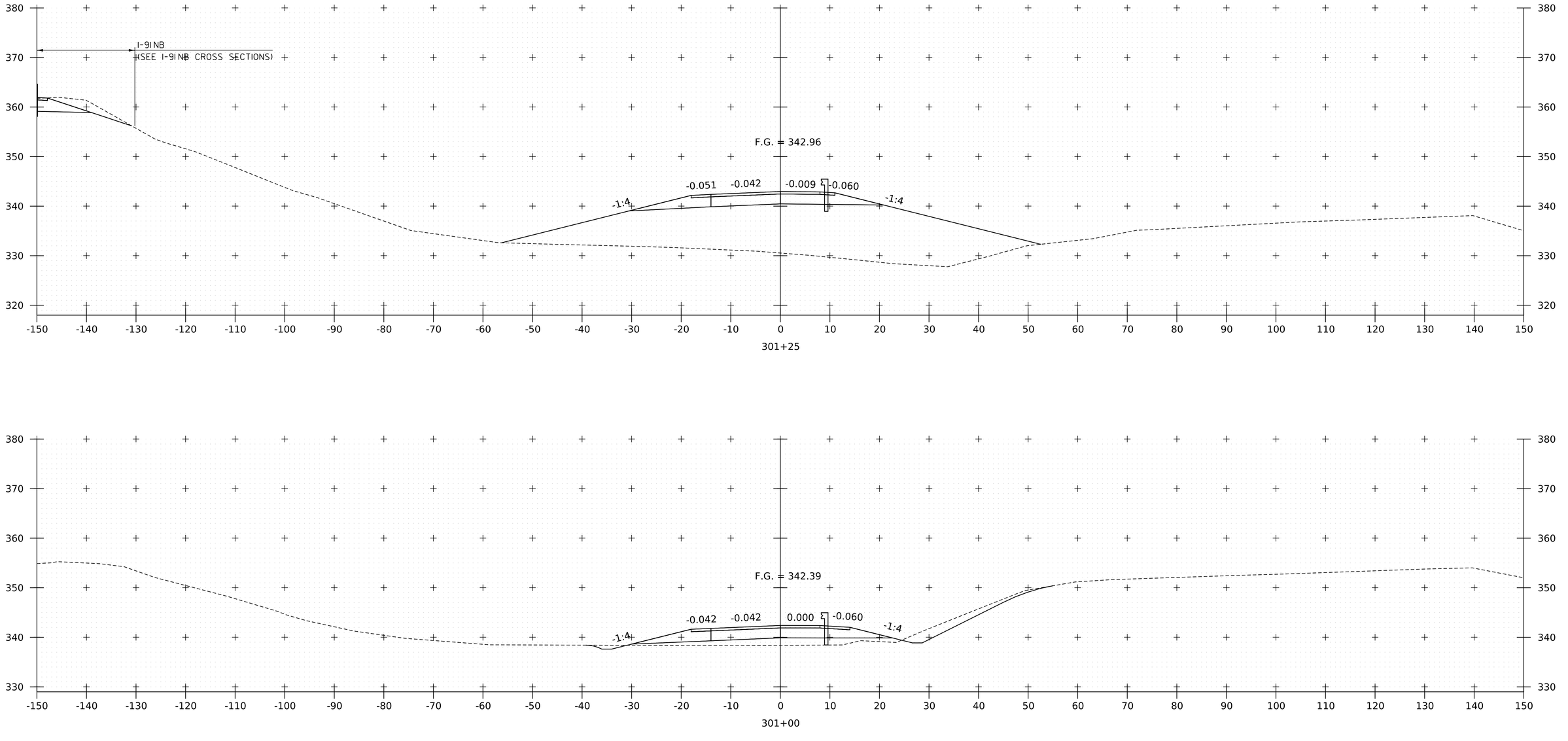
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn		PLOT DATE:	28-SEP-2022
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 17		SHEET	296 OF 395

HNTB



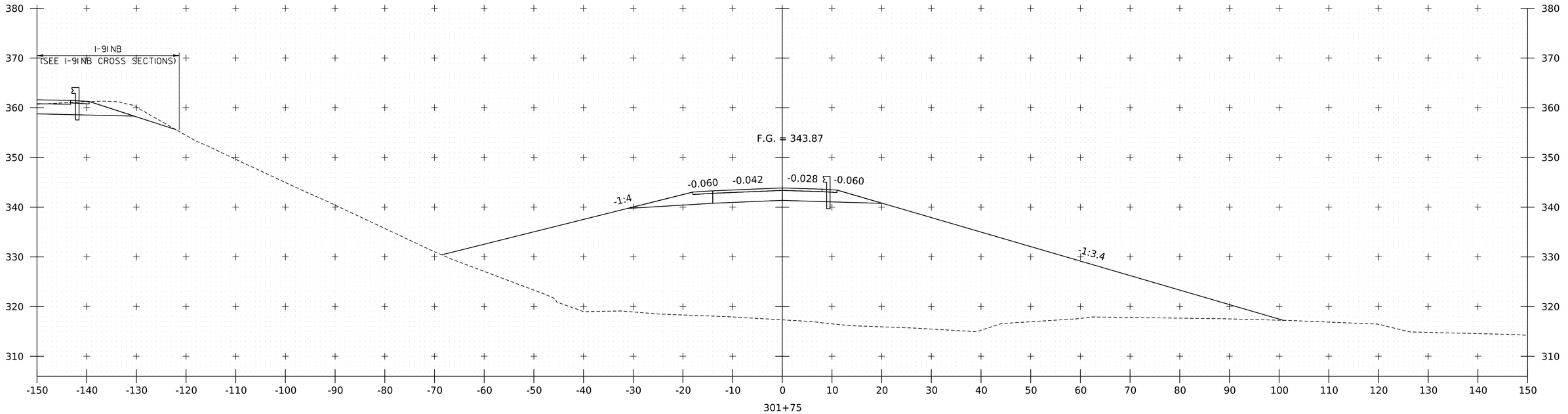
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS I	SHEET 297 OF 395

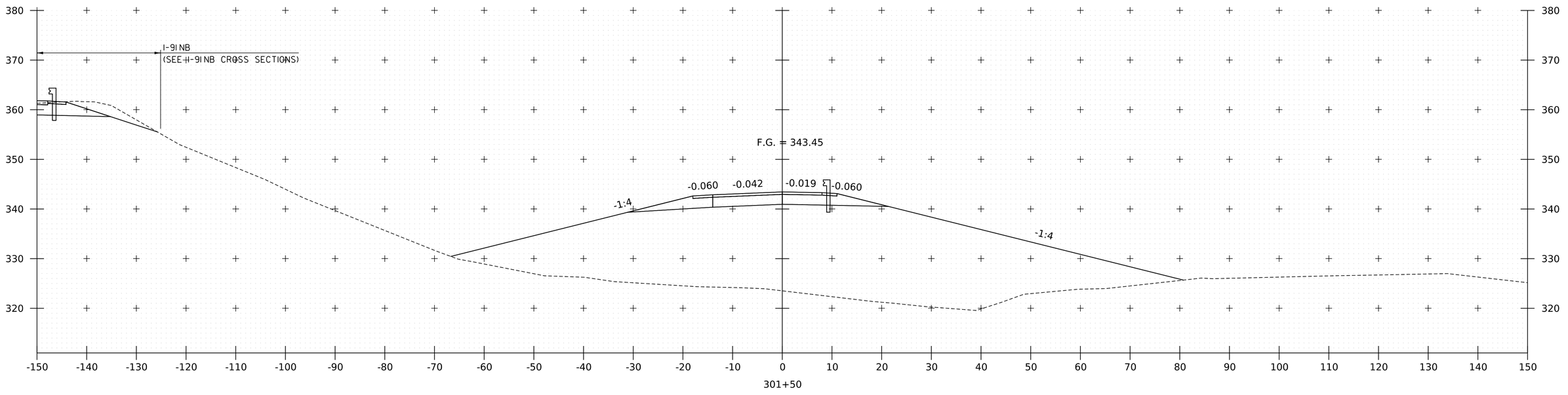
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 2	SHEET 298 OF 395

HNTB



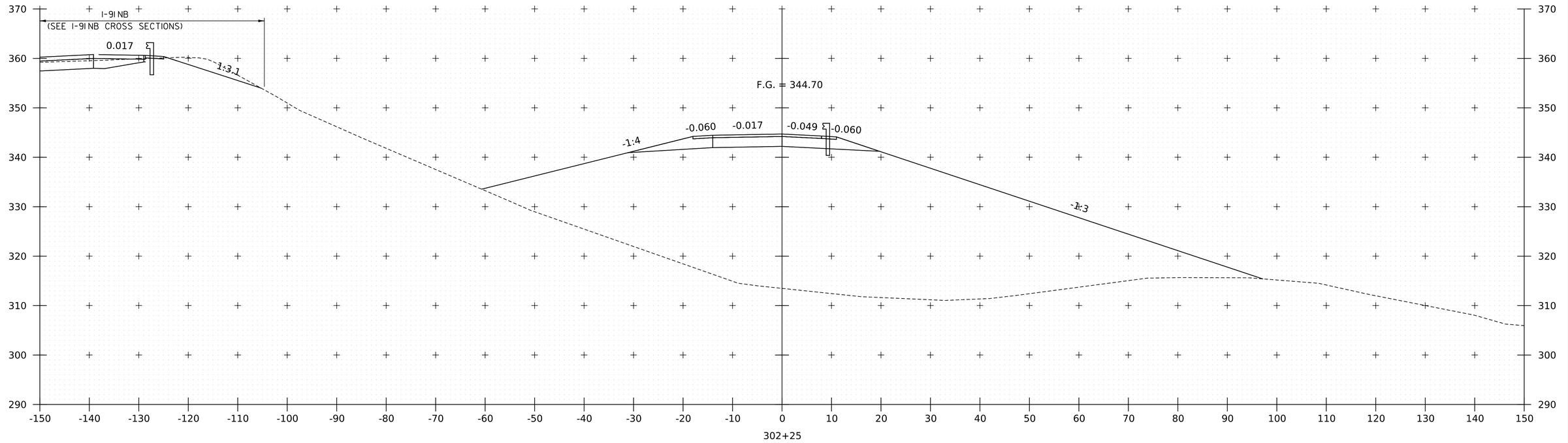


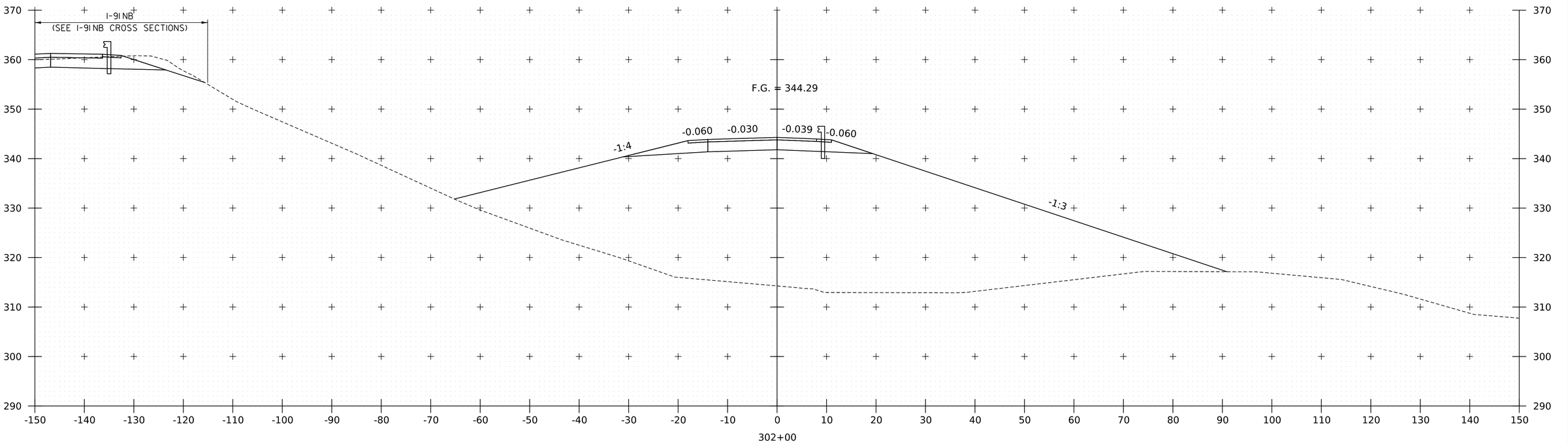
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_I_91_NB_On_Ramp.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB ON RAMP CROSS SECTIONS 3

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 299 OF 395

HNTB

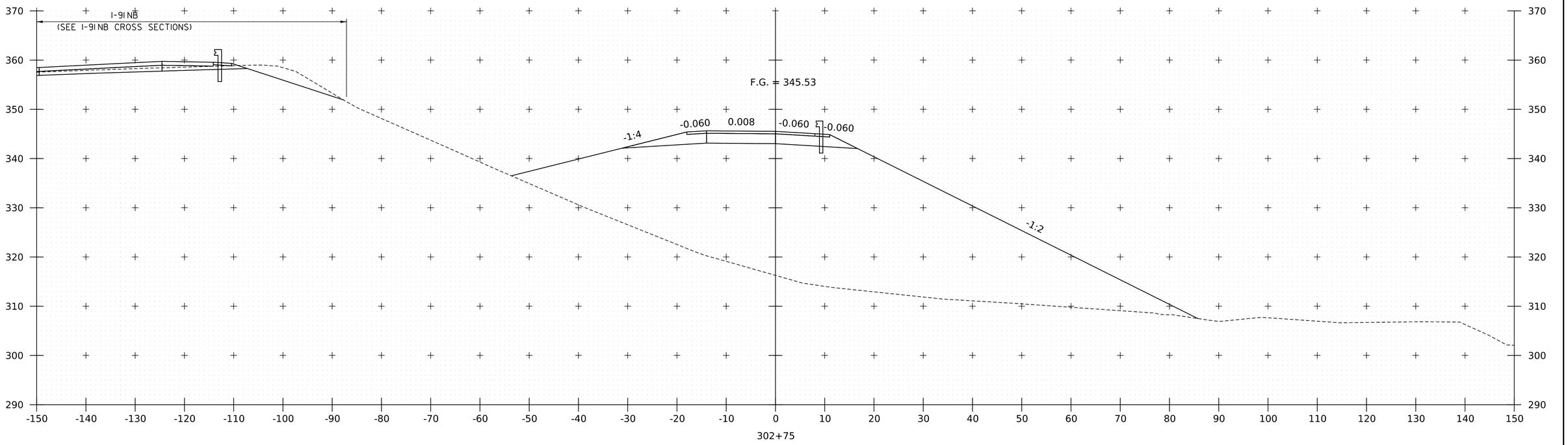


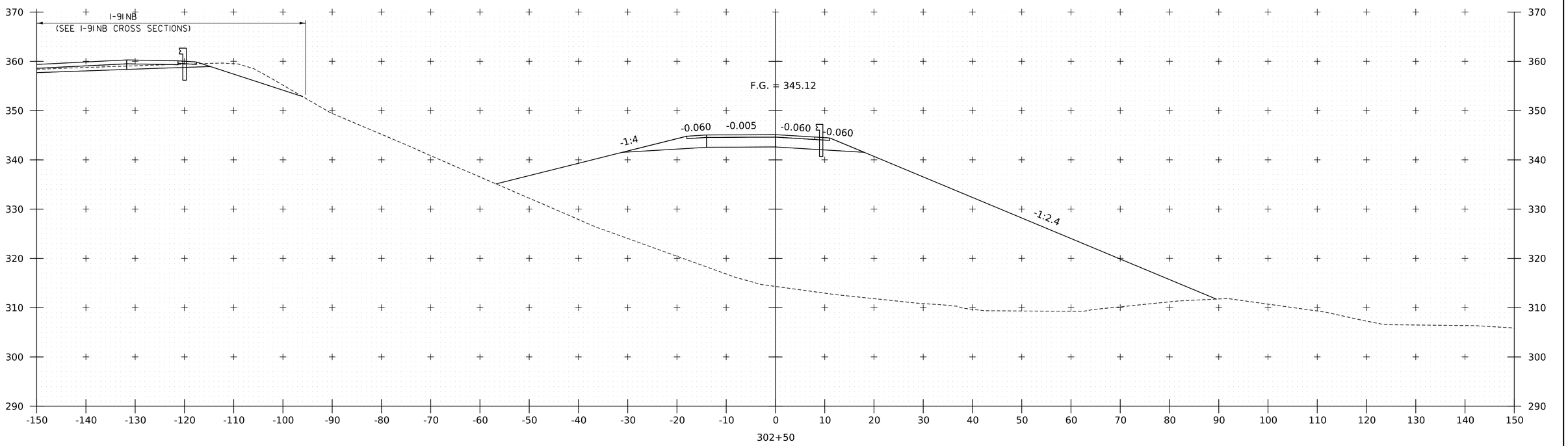


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 4	SHEET 300 OF 395

HNTB

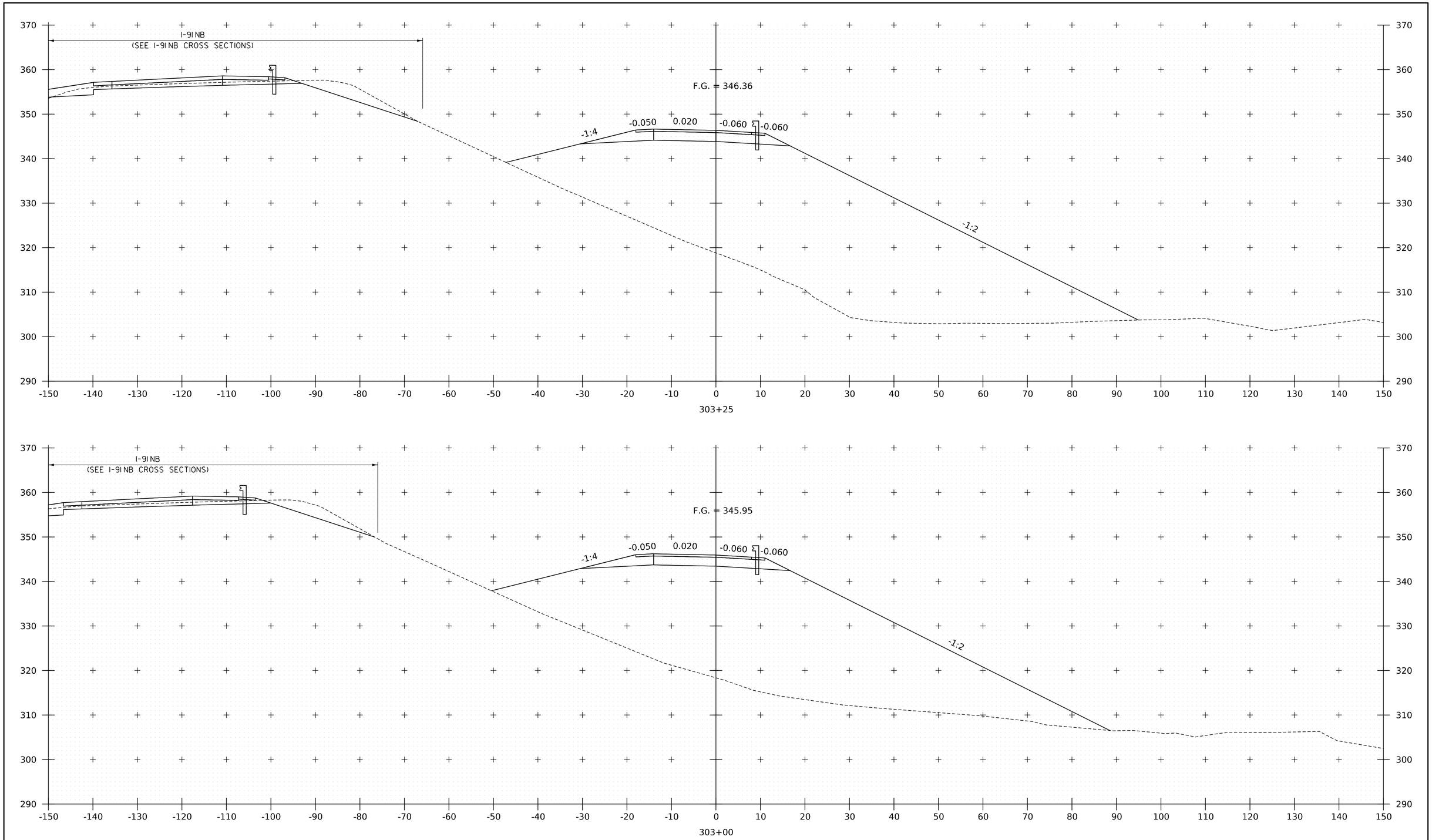




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

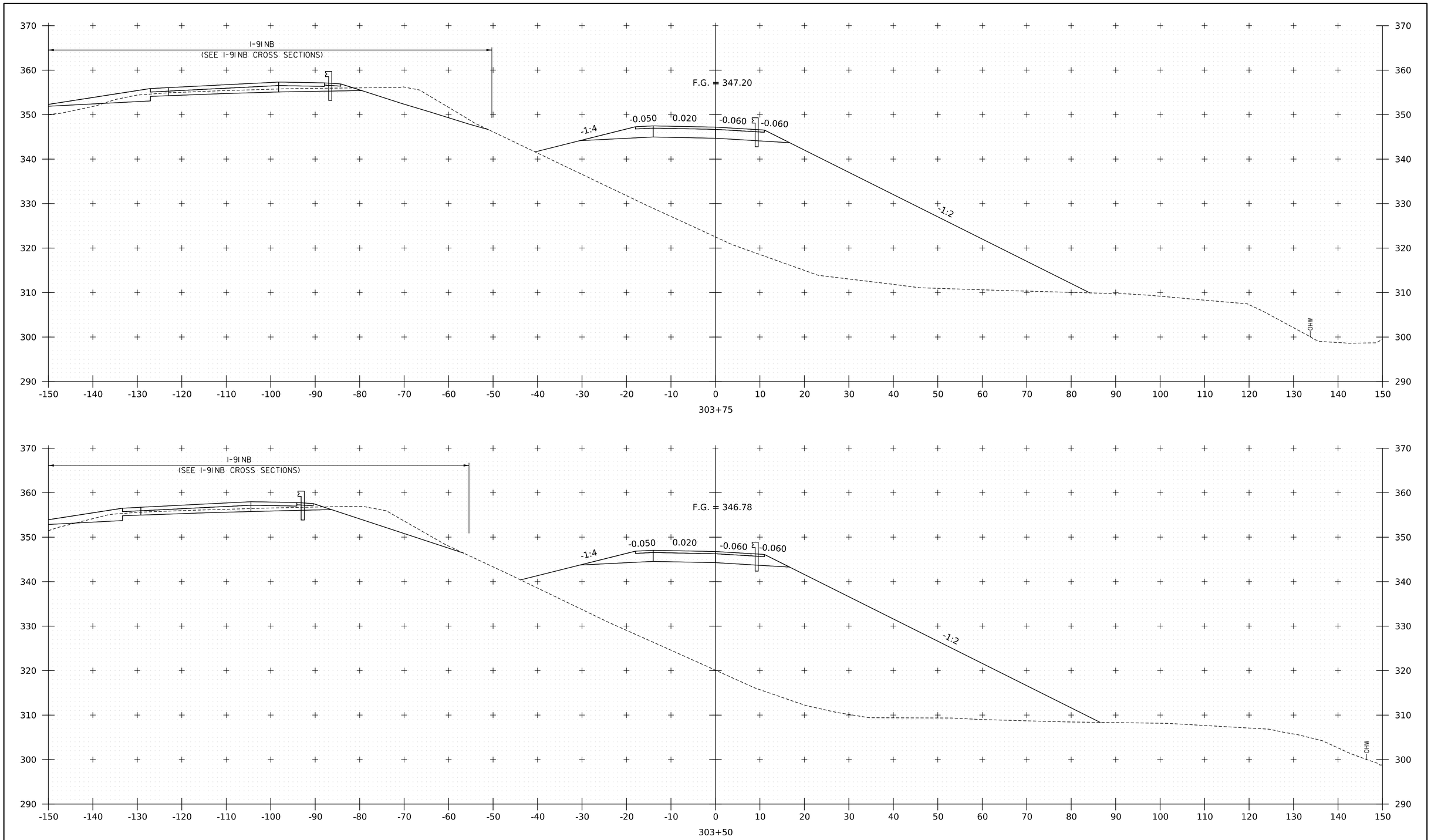
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 5	SHEET 301 OF 395

HNTB



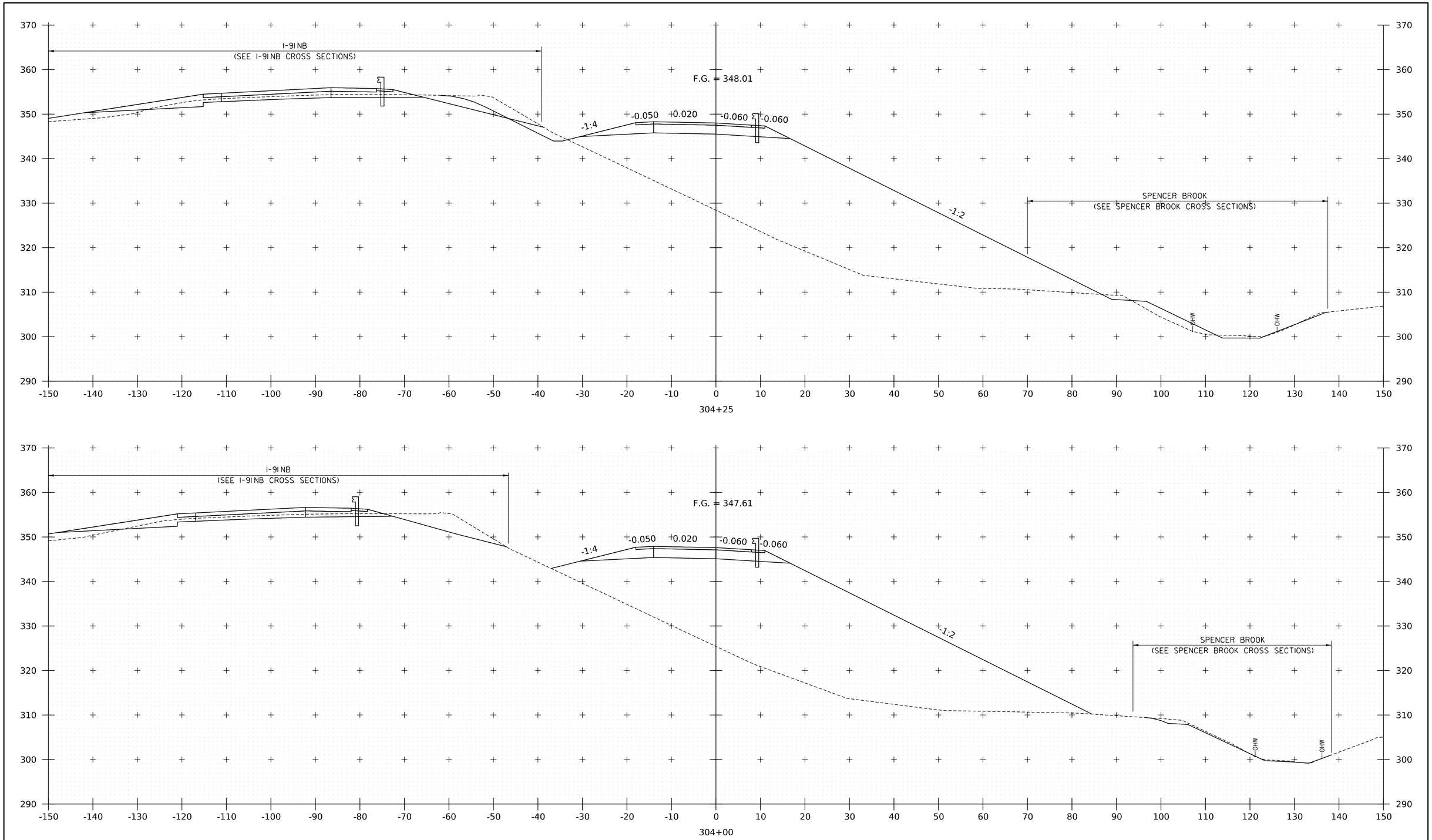
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 6	SHEET 302 OF 395

HNTB



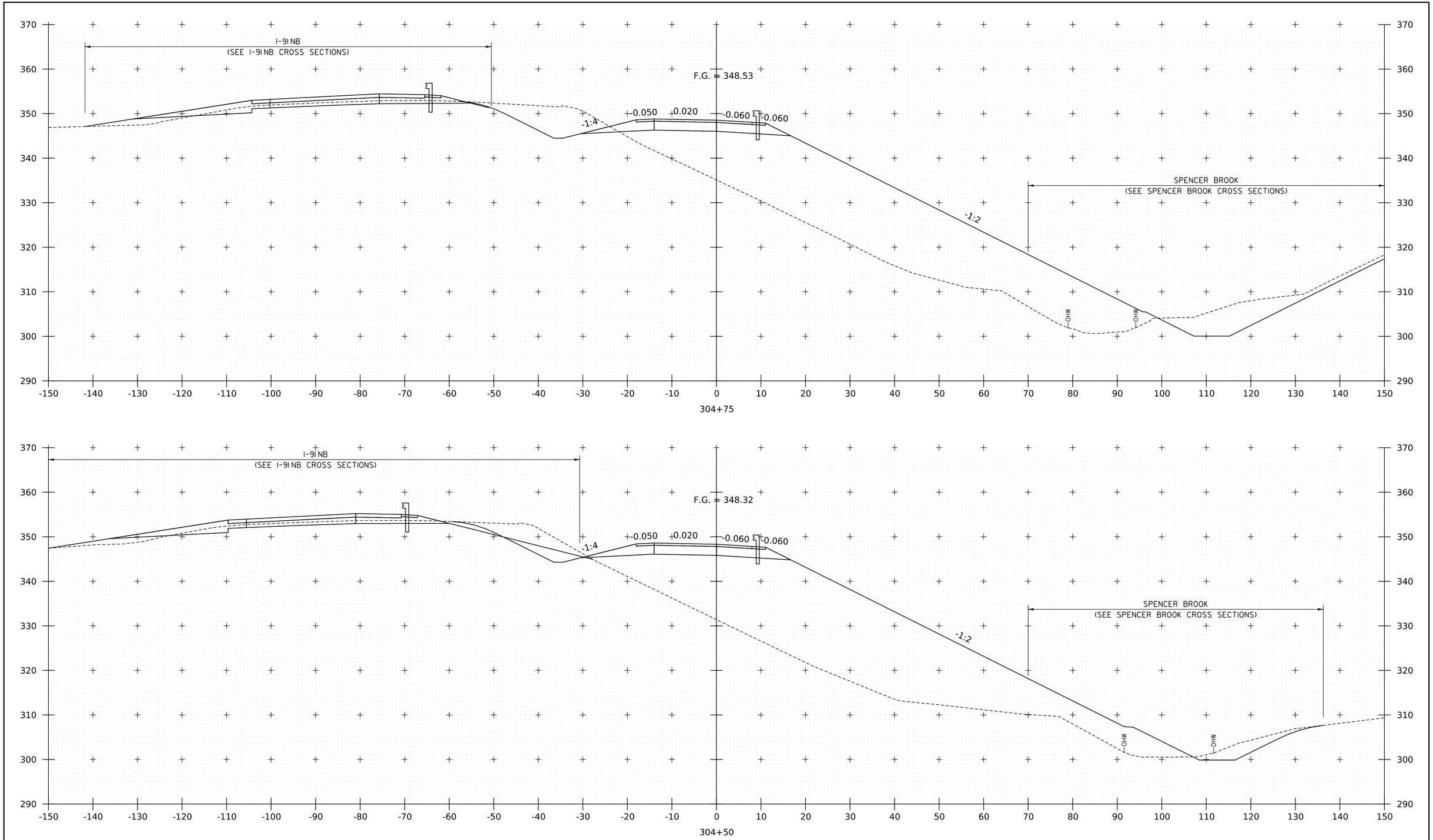
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 7	SHEET 303 OF 395

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 8	SHEET 304 OF 395

HNTB



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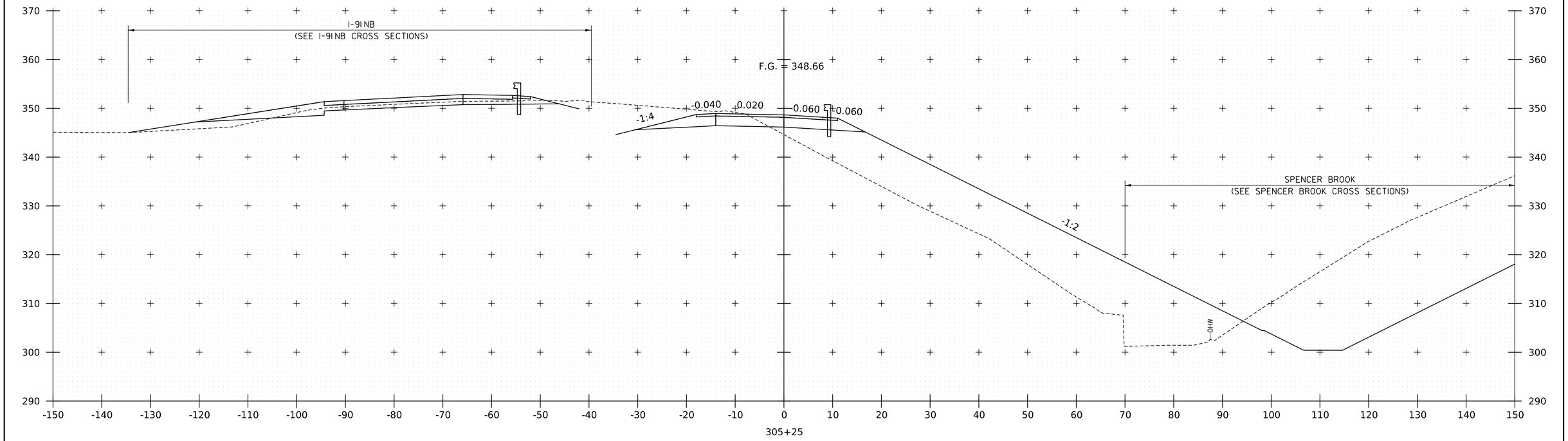
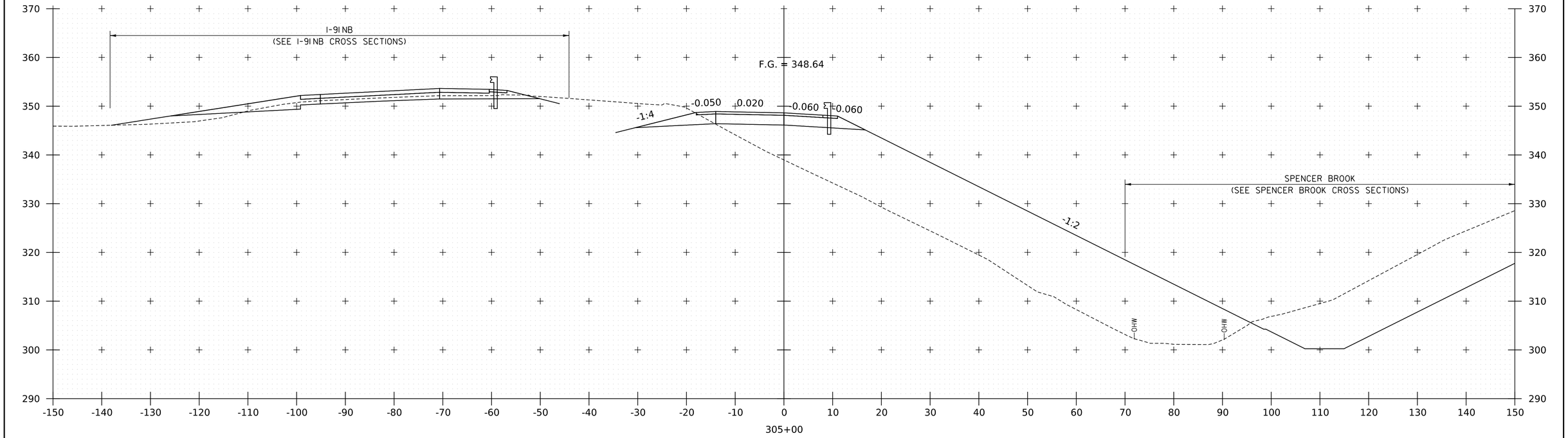
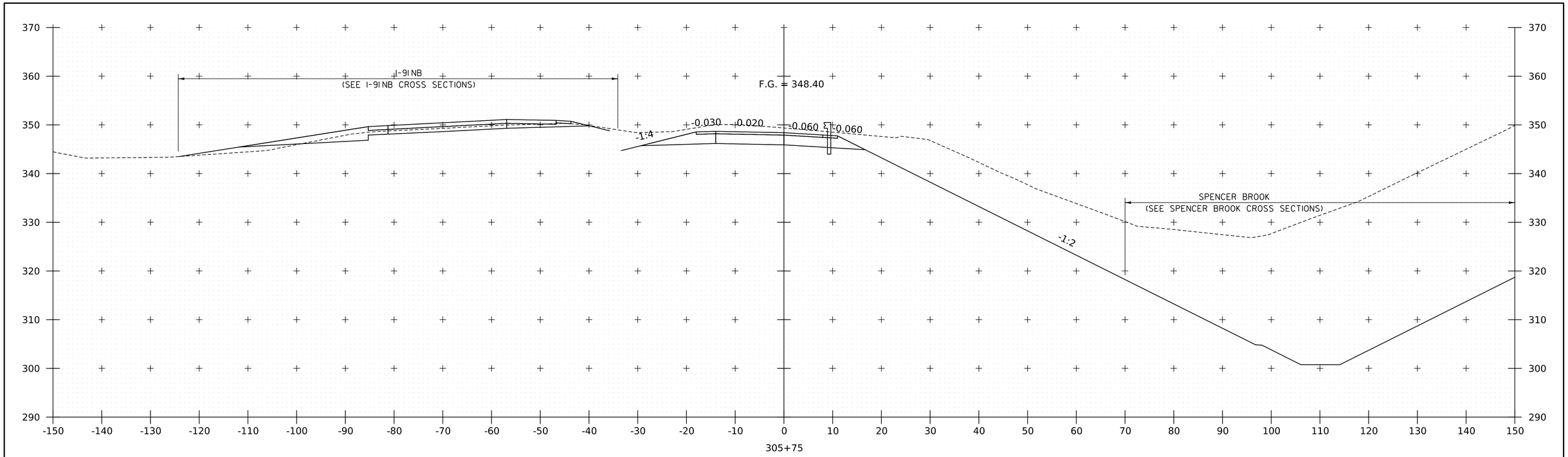
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 9	SHEET 305 OF 395

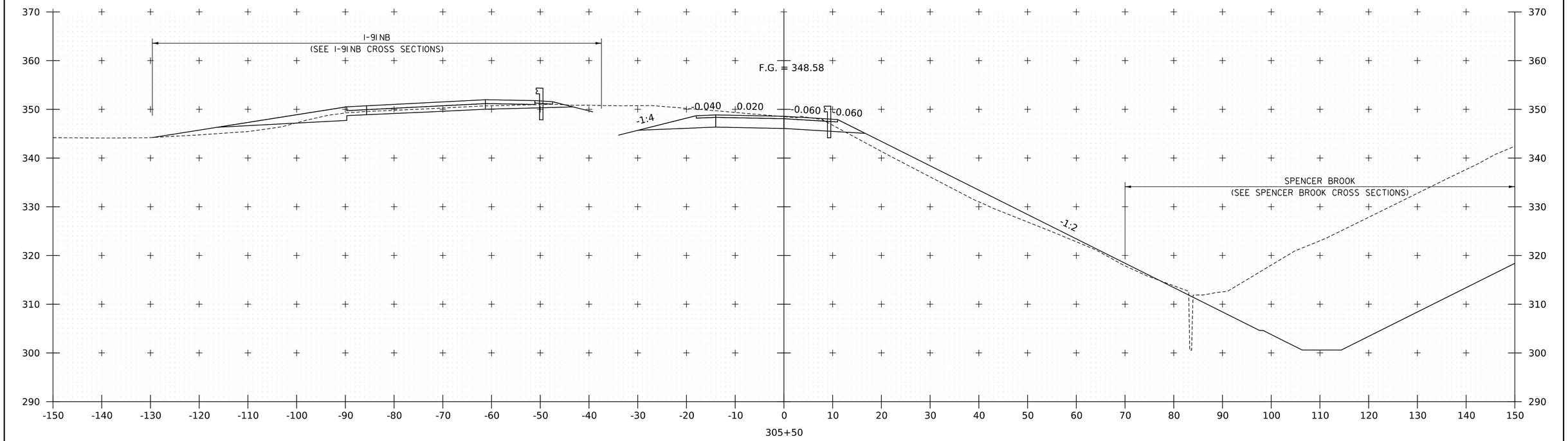




HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 10	SHEET 306 OF 395





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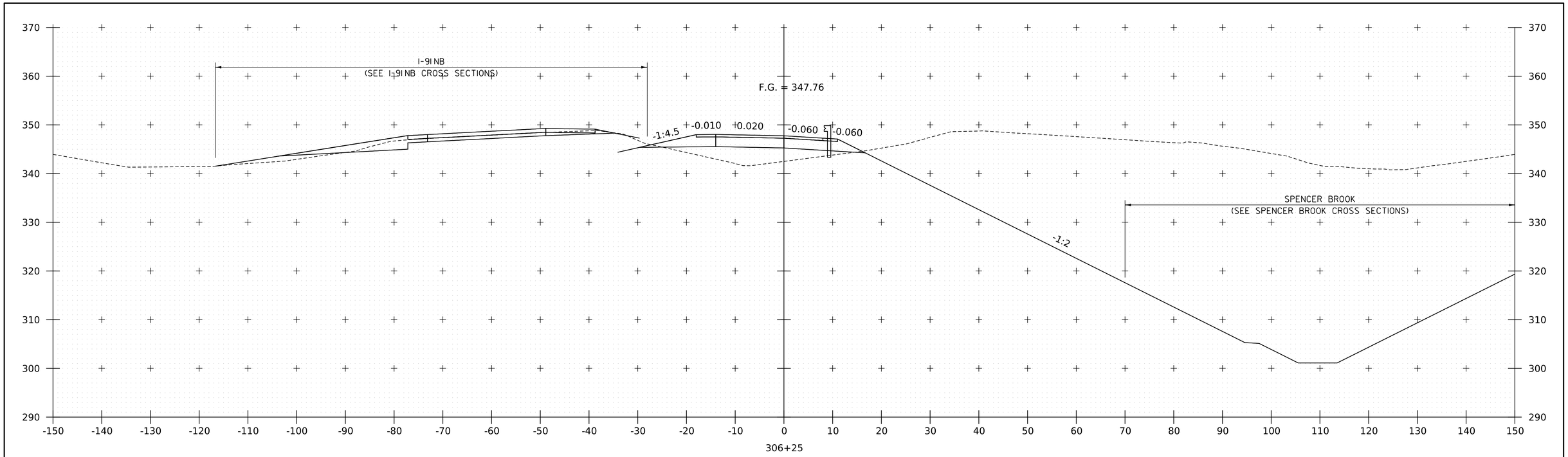
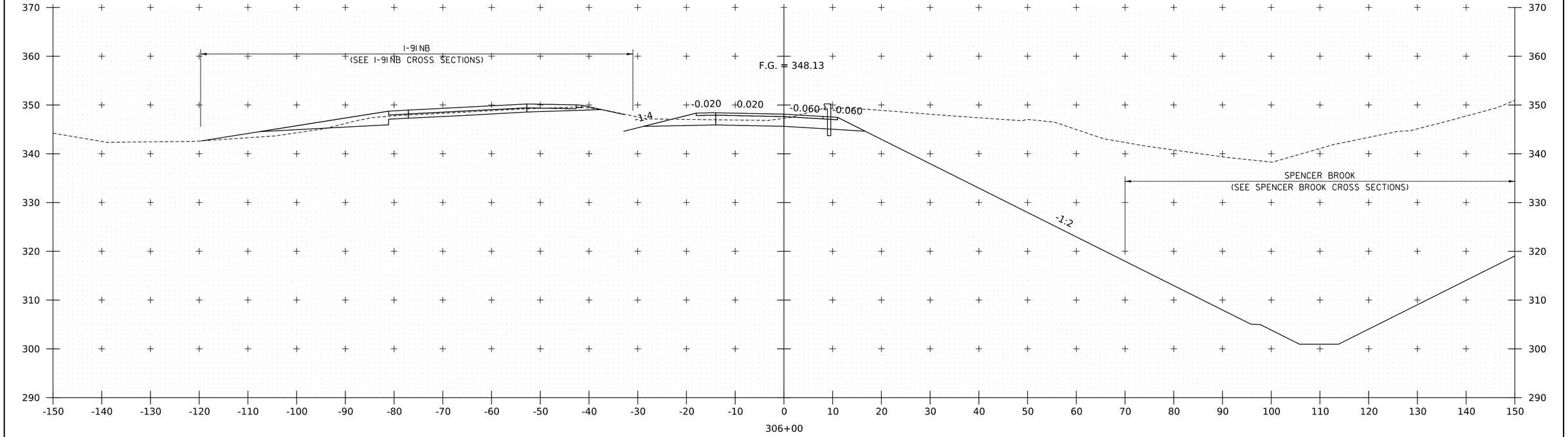
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS II	SHEET 307 OF 395

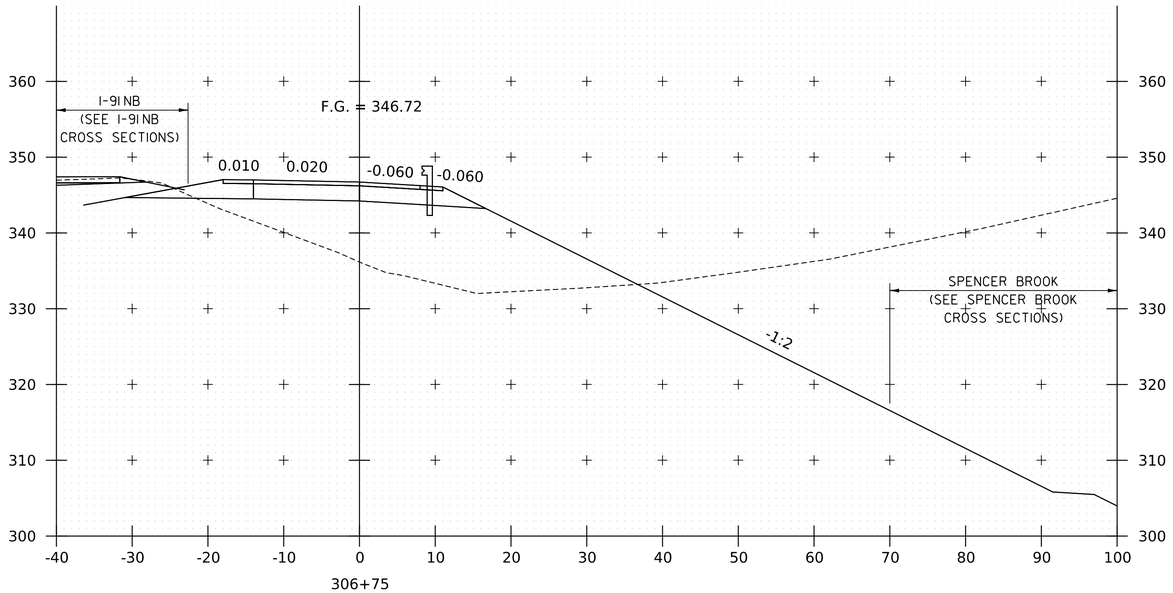


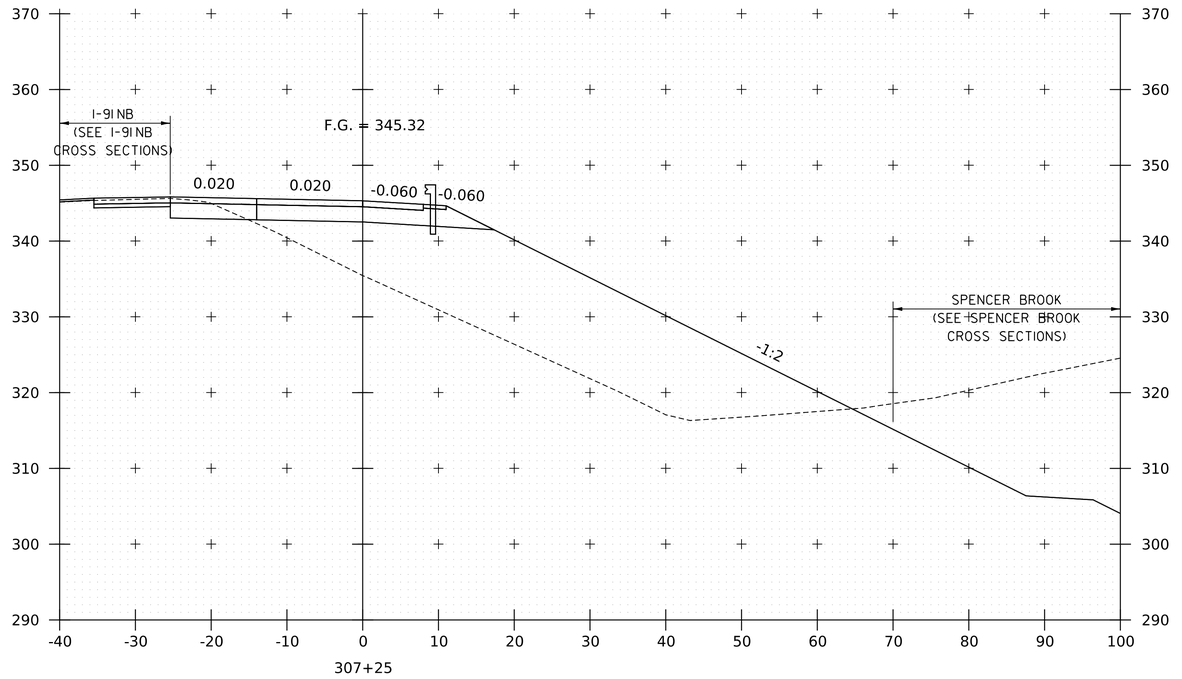


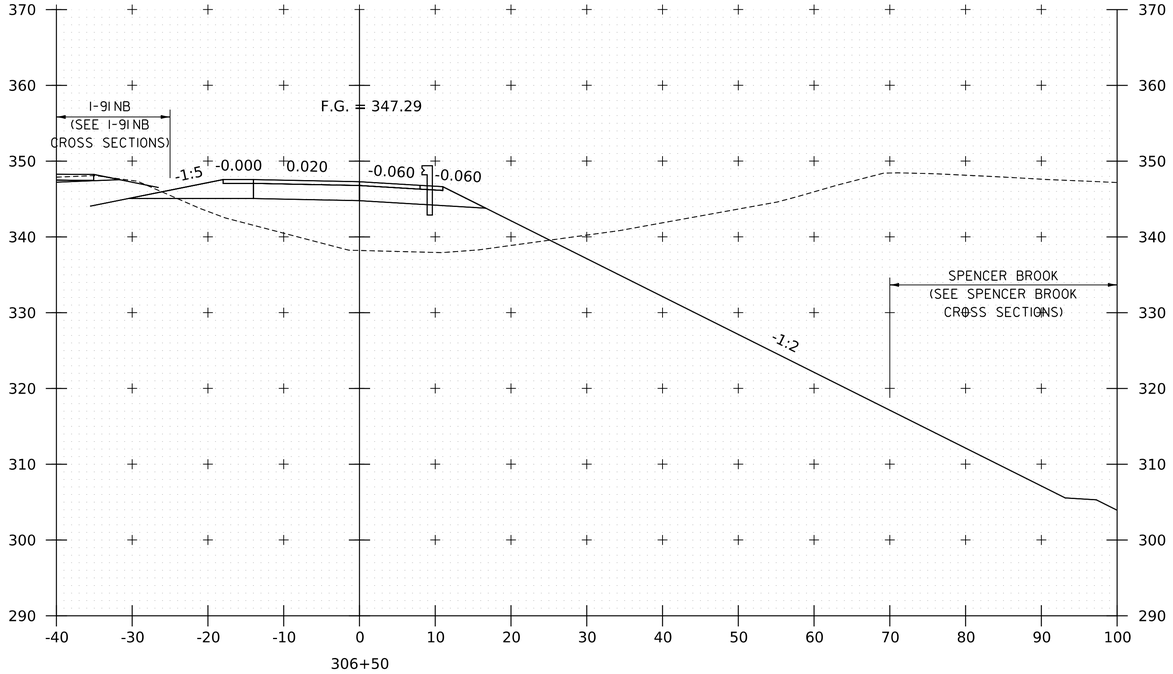
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

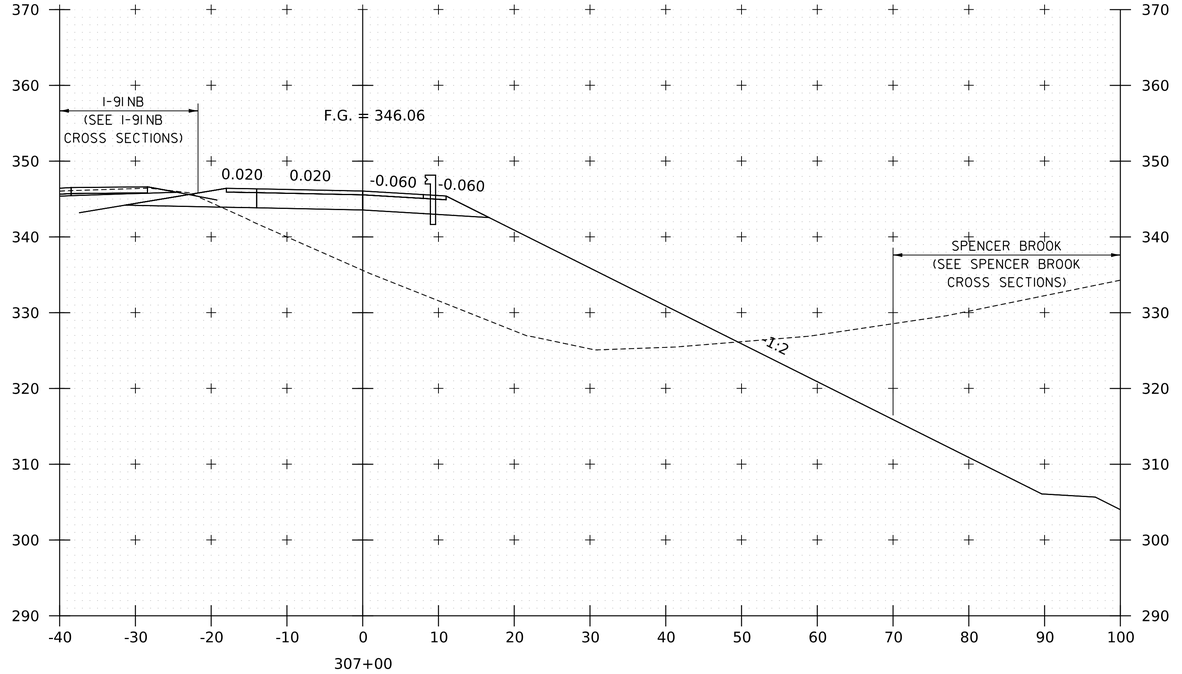
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 12	SHEET 308 OF 395

HNTB



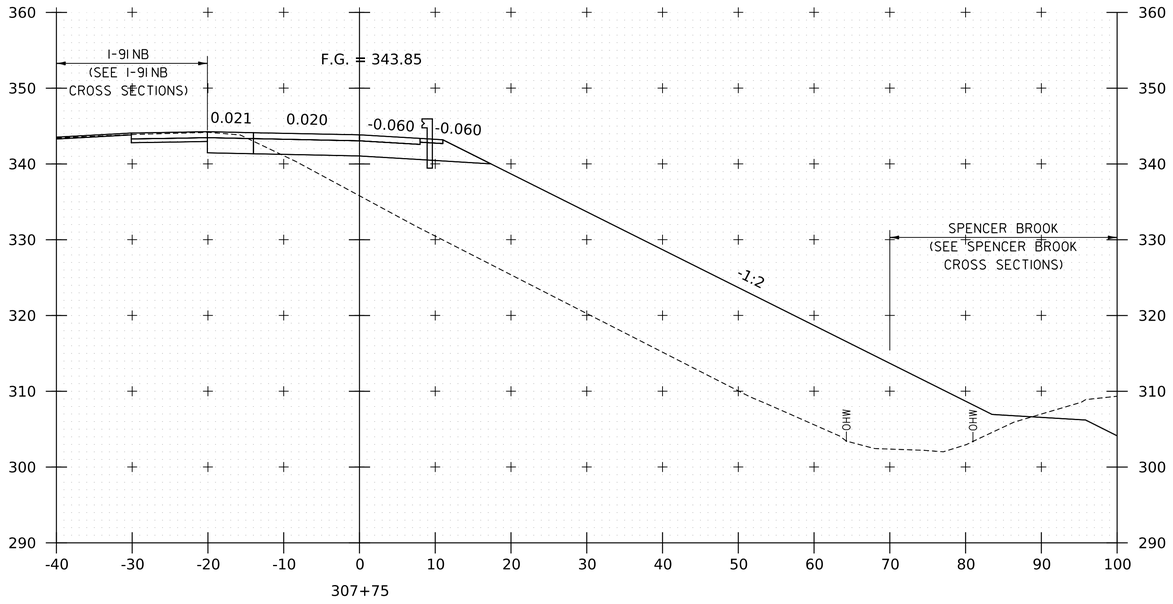


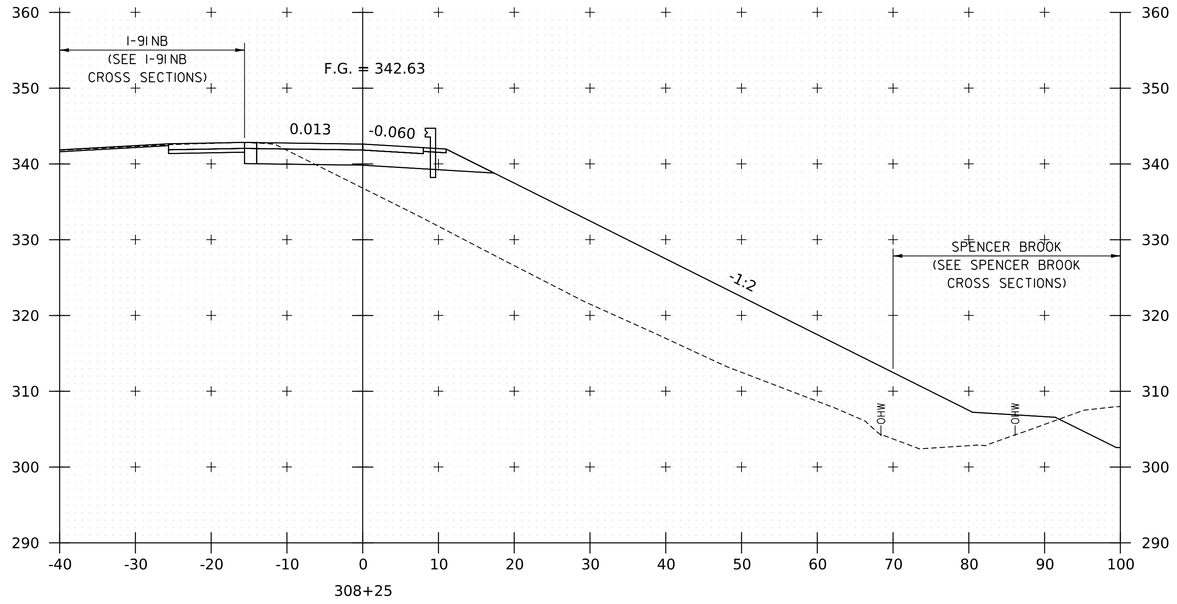


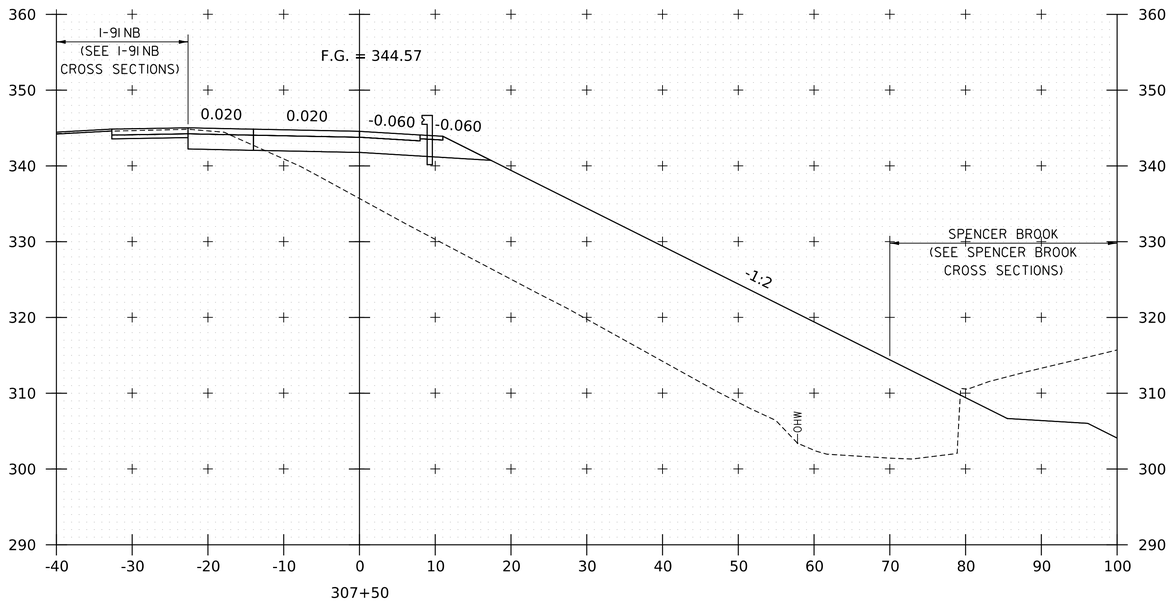


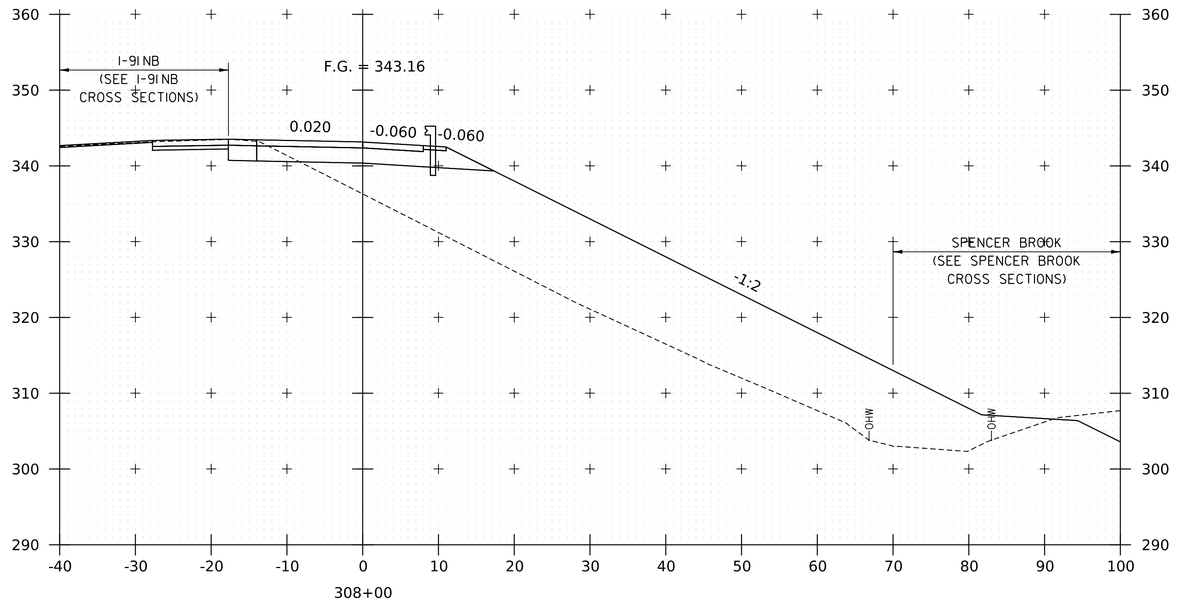
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 13	SHEET 309 OF 395







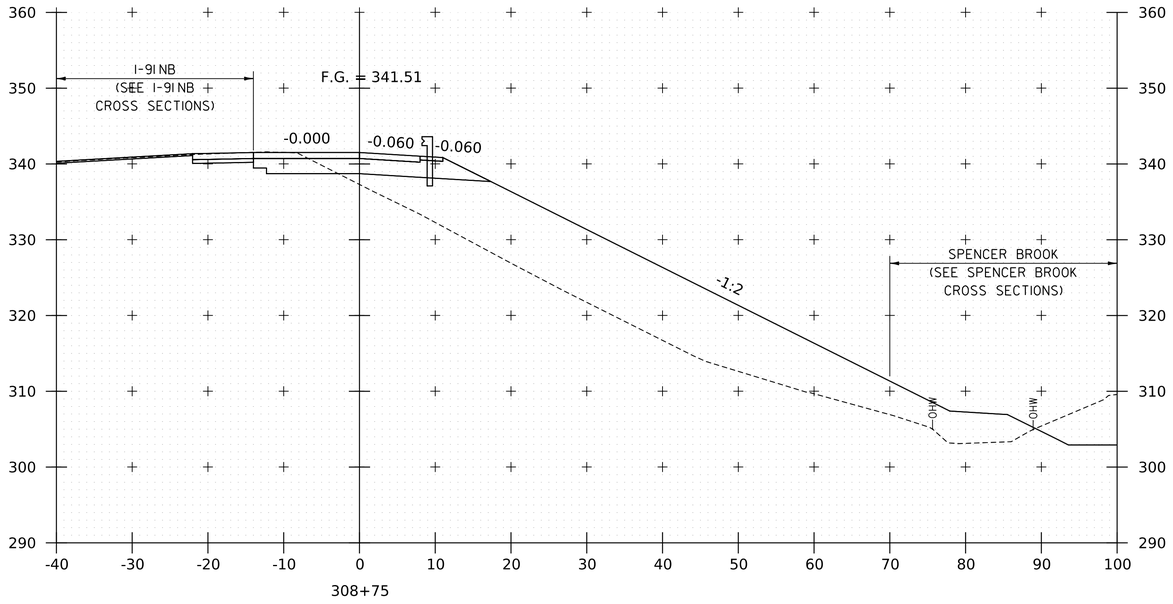


HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_I_91_NB_On_Ramp.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB ON RAMP CROSS SECTIONS 14

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 310 OF 395



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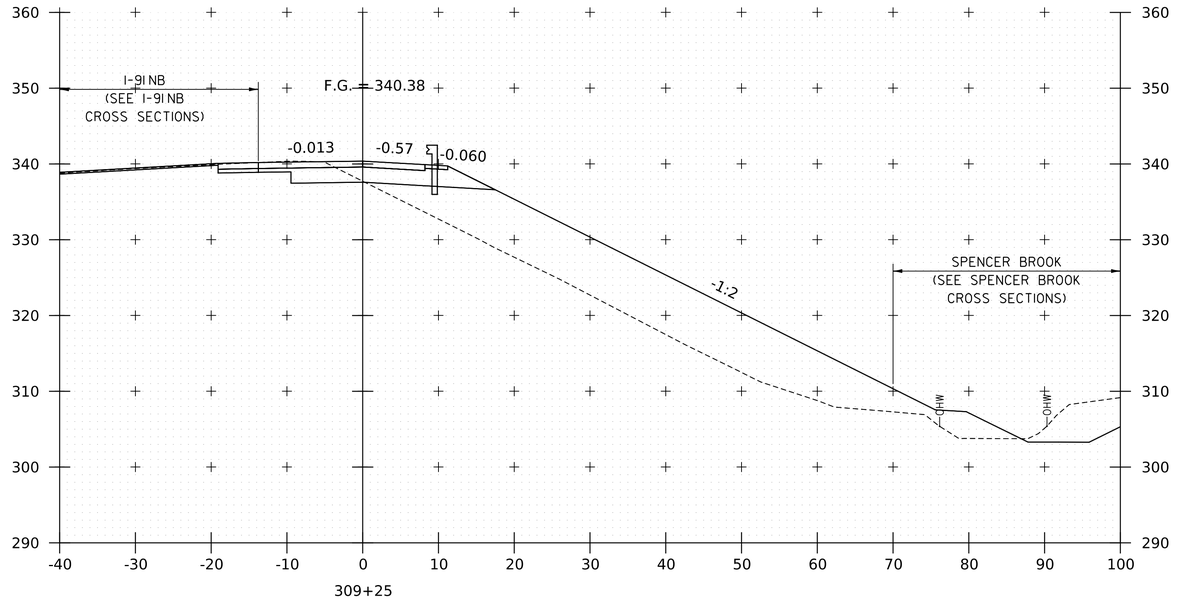

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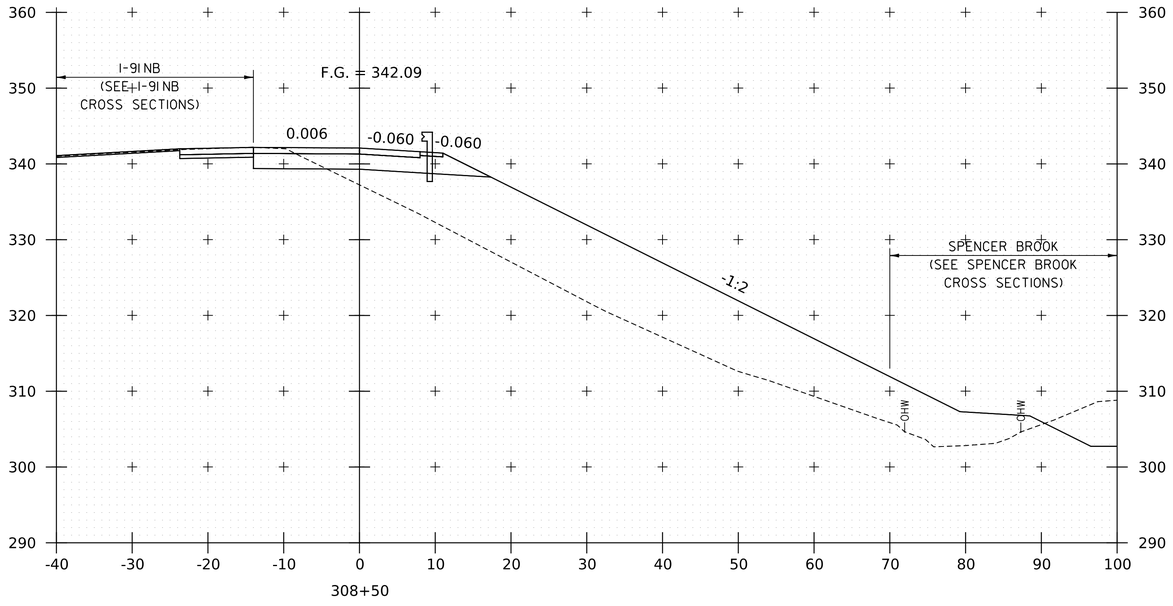

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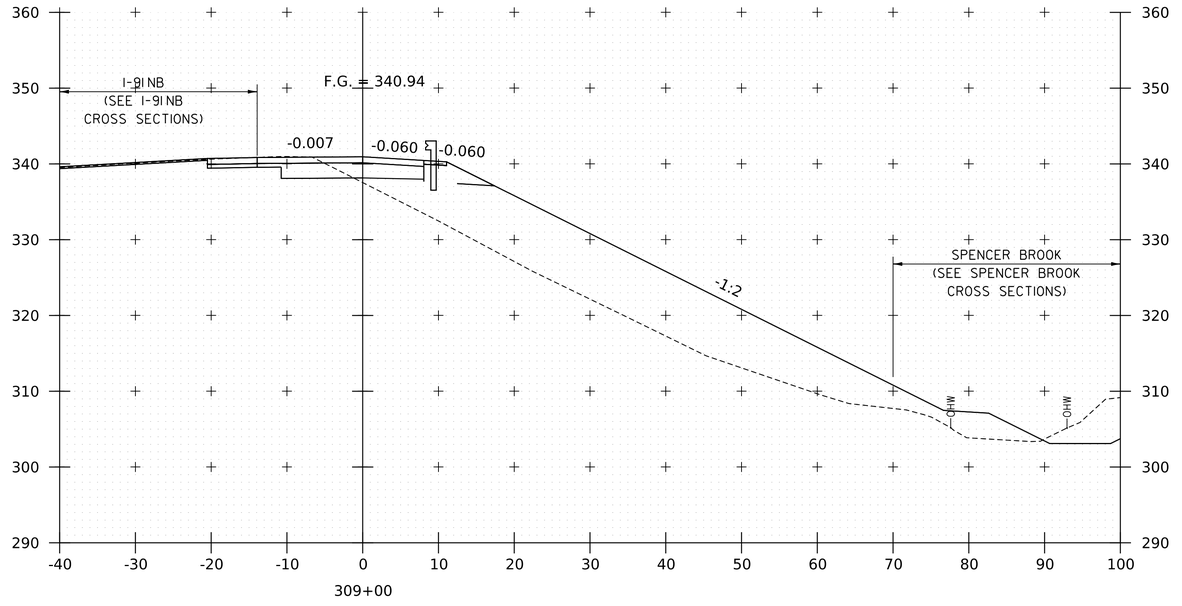
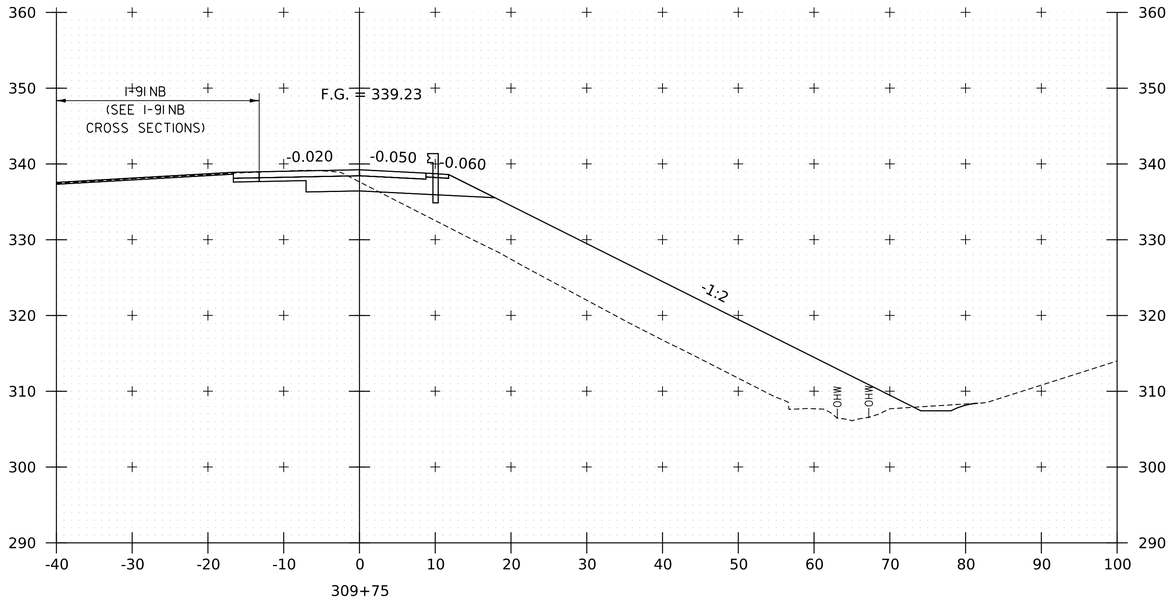


309+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 15	SHEET 311 OF 395

HNTB



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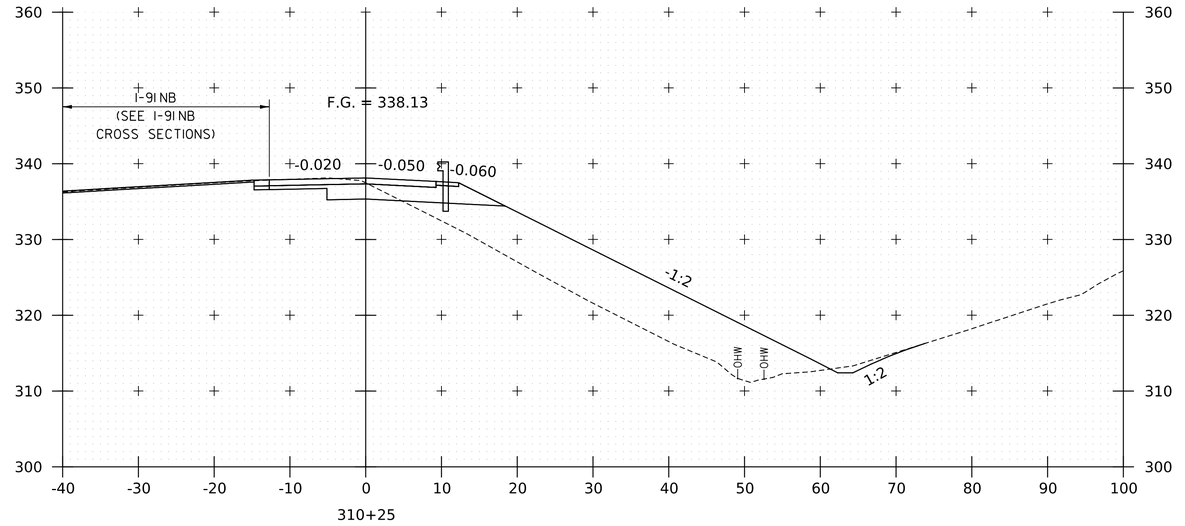

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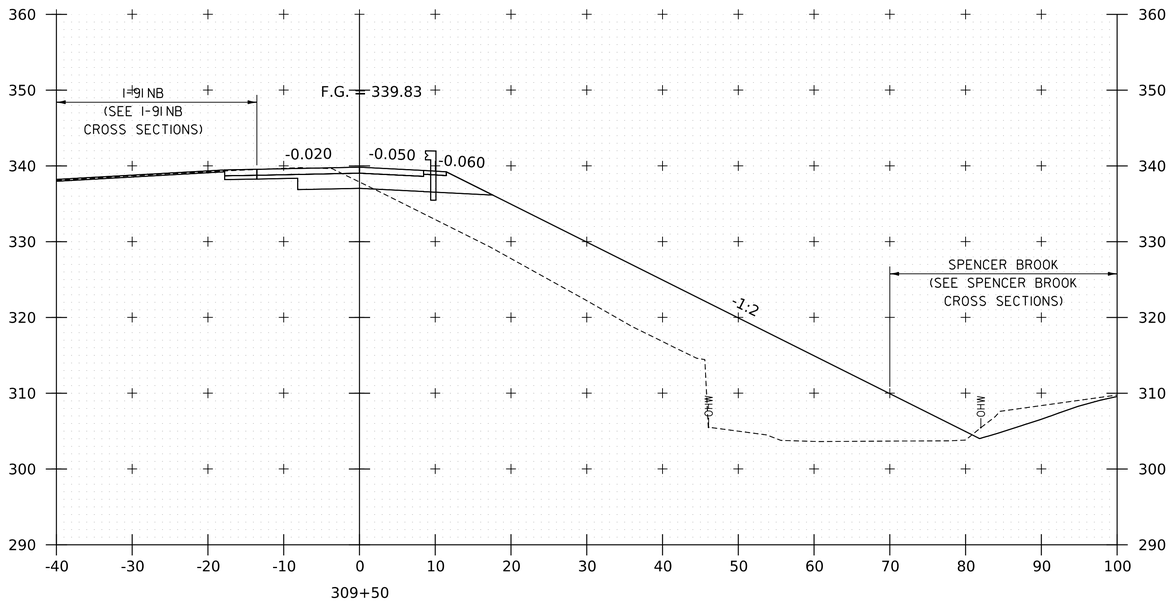

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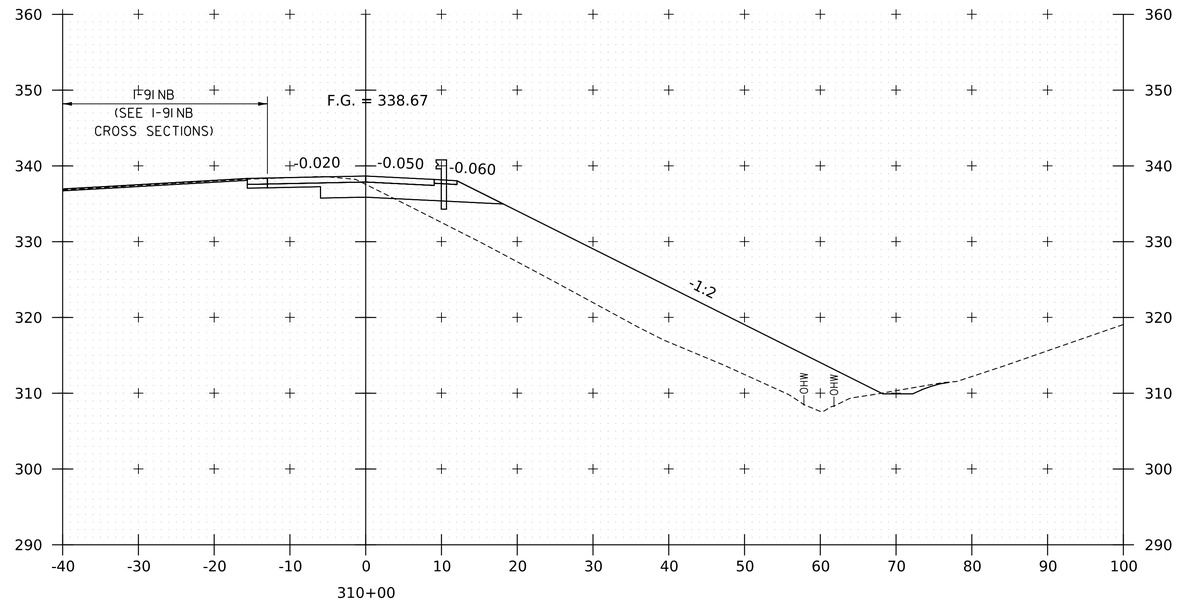


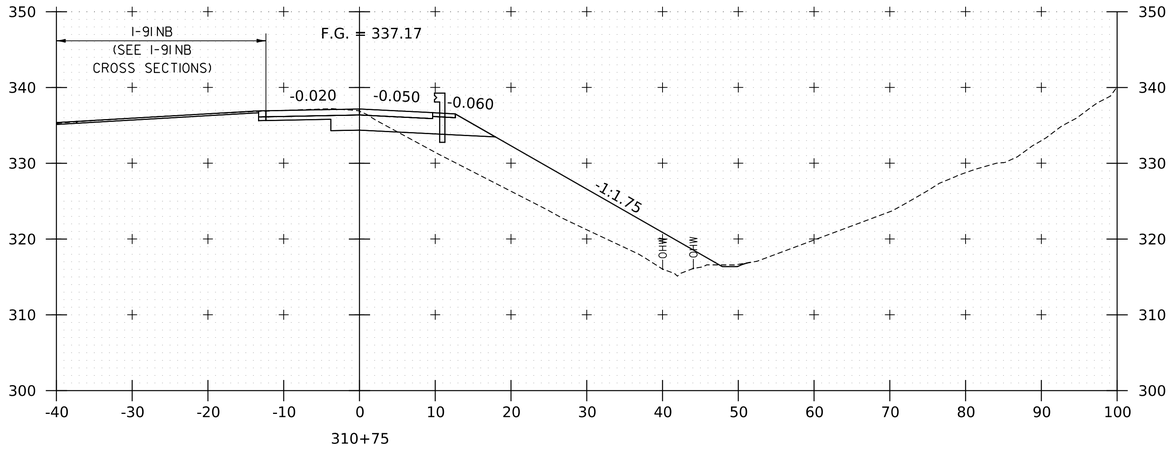
310+00

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_I_91_NB_On_Ramp.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB ON RAMP CROSS SECTIONS 16

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 312 OF 395

HNTB



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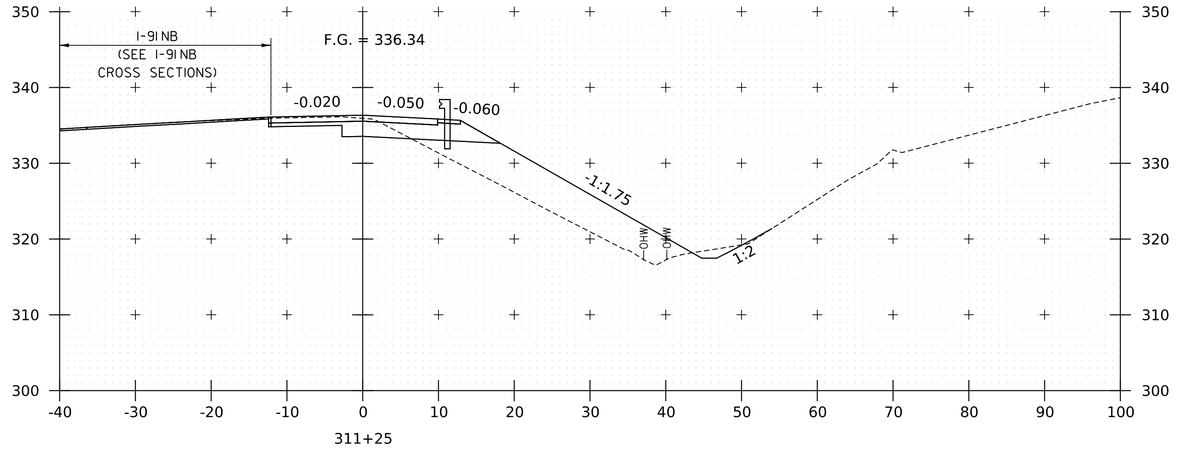

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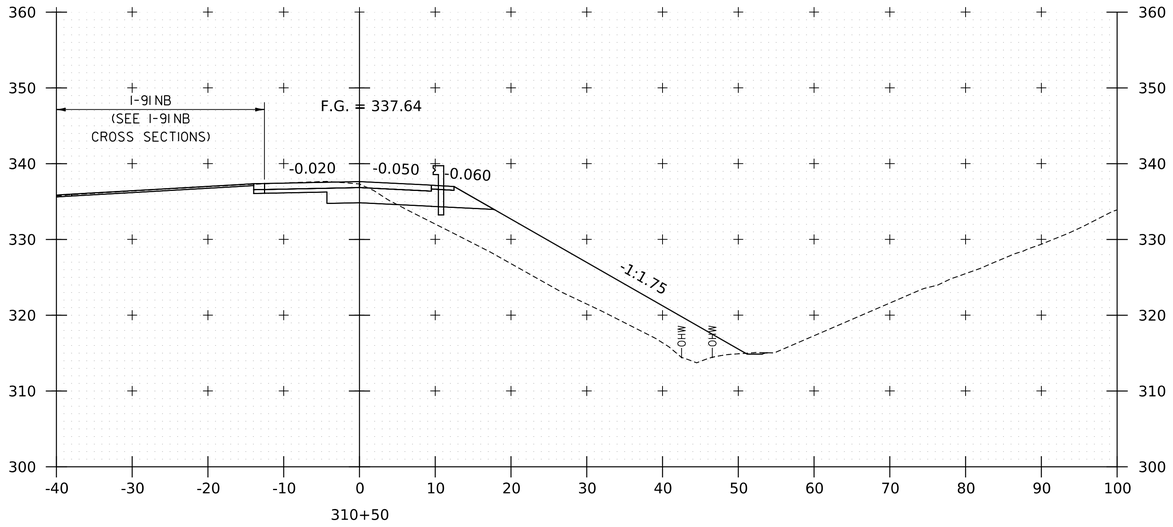

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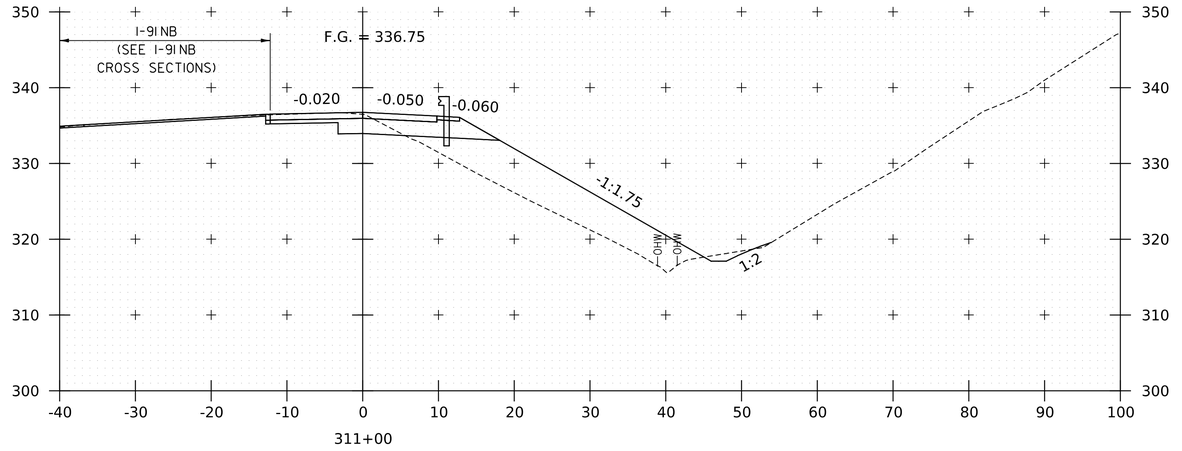

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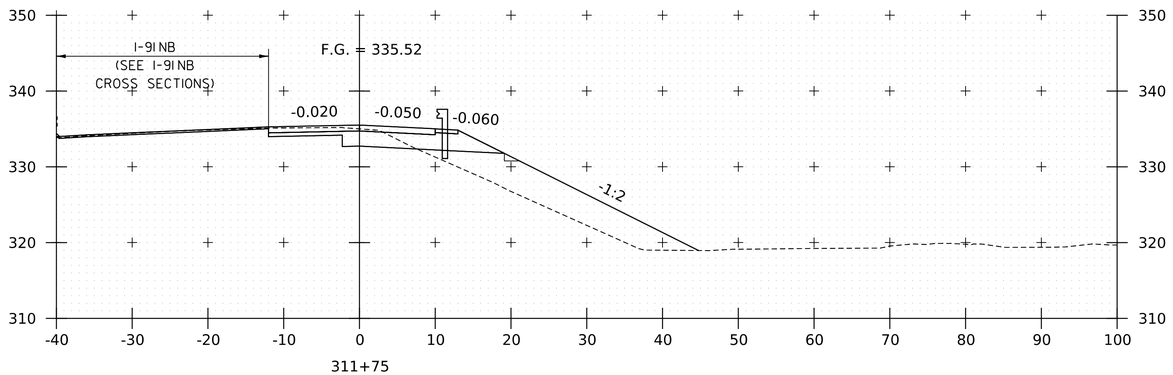
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_I_91_NB_On_Ramp.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 NB ON RAMP CROSS SECTIONS 17

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 313 OF 395



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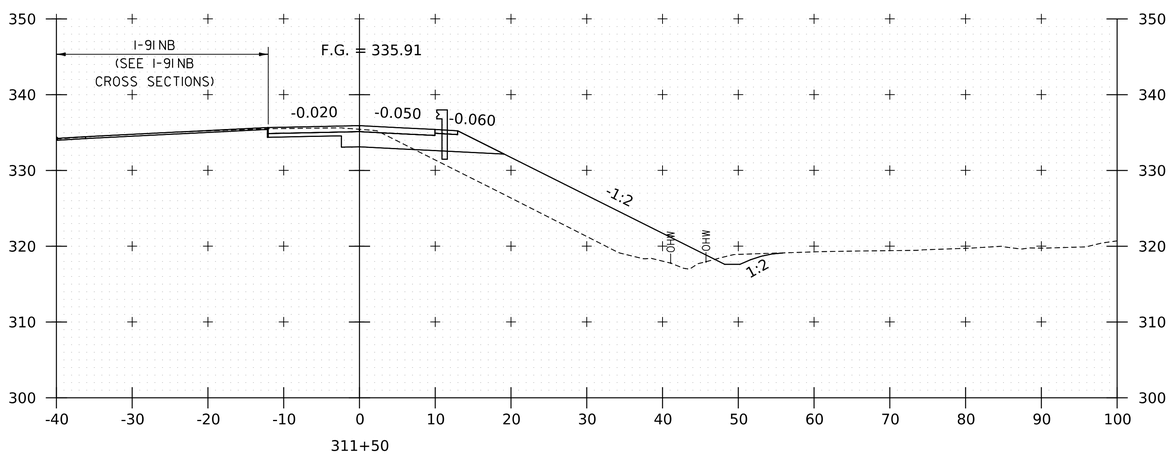
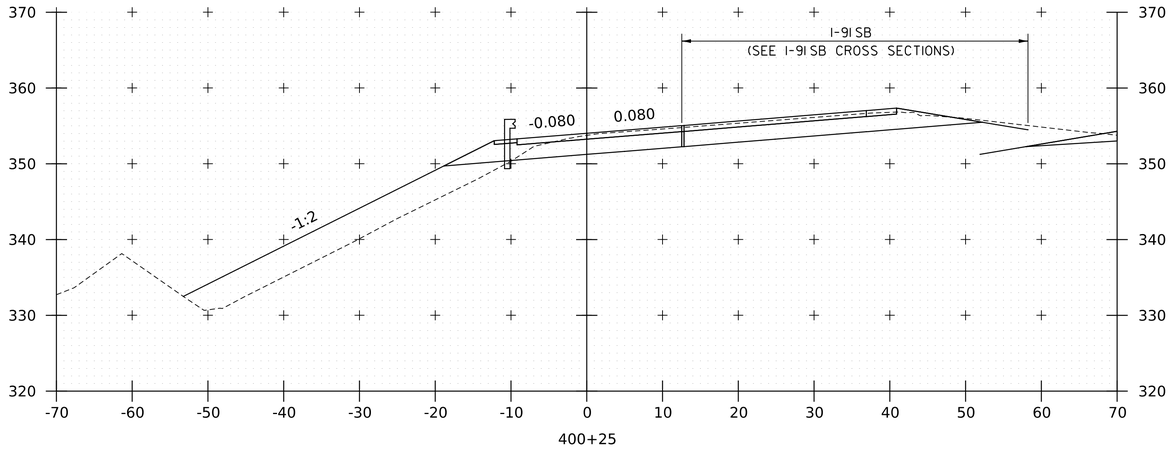


311+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 18	SHEET 314 OF 395

HNTB



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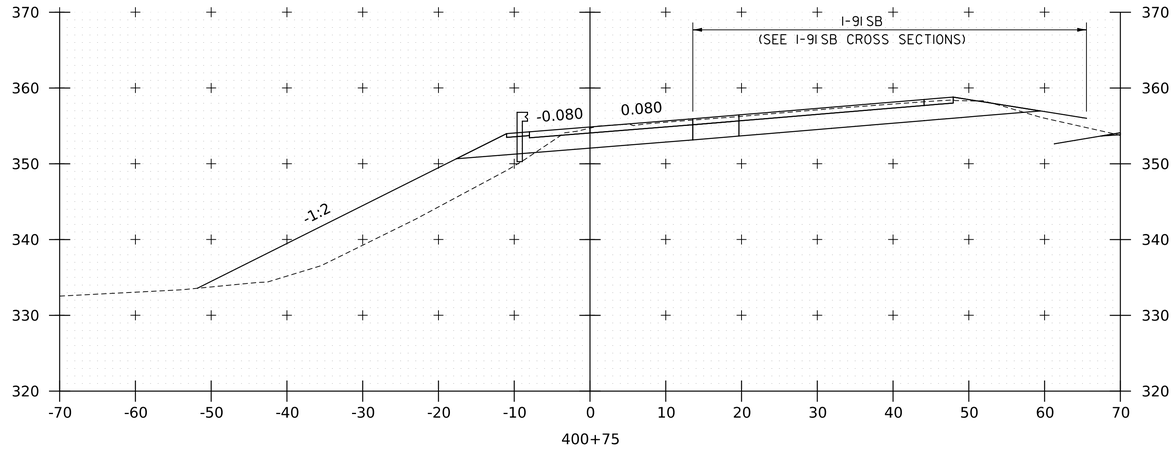

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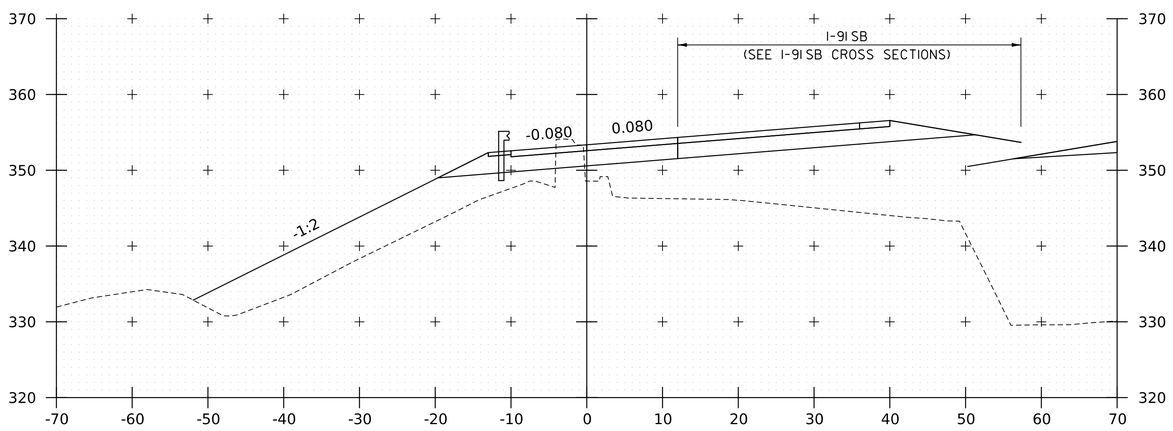

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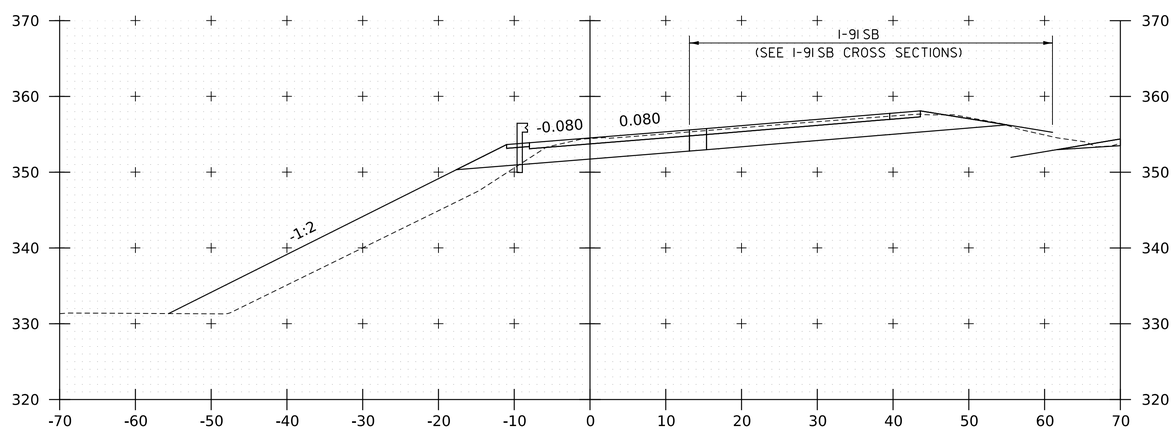
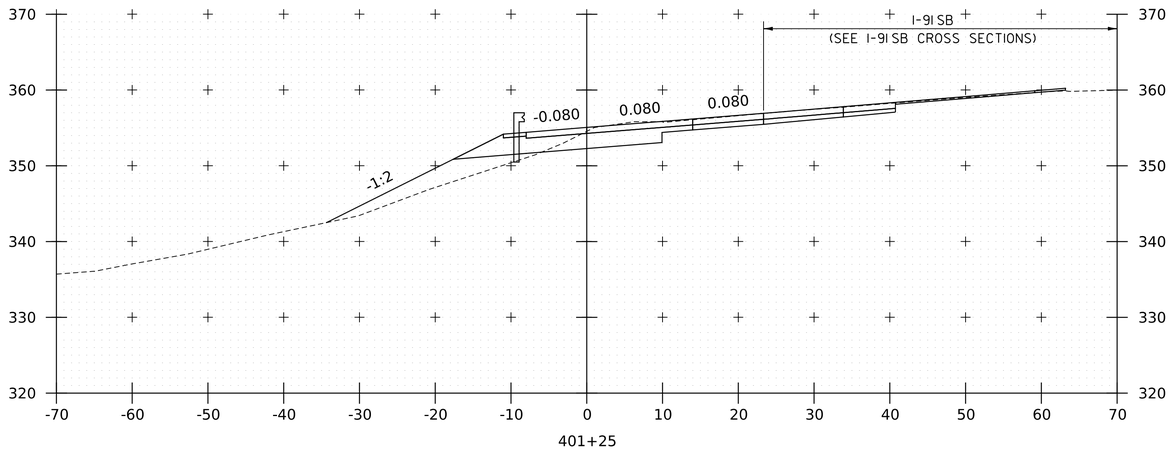


400+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_SB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB ON RAMP CROSS SECTIONS 1	SHEET 315 OF 395

HNTB



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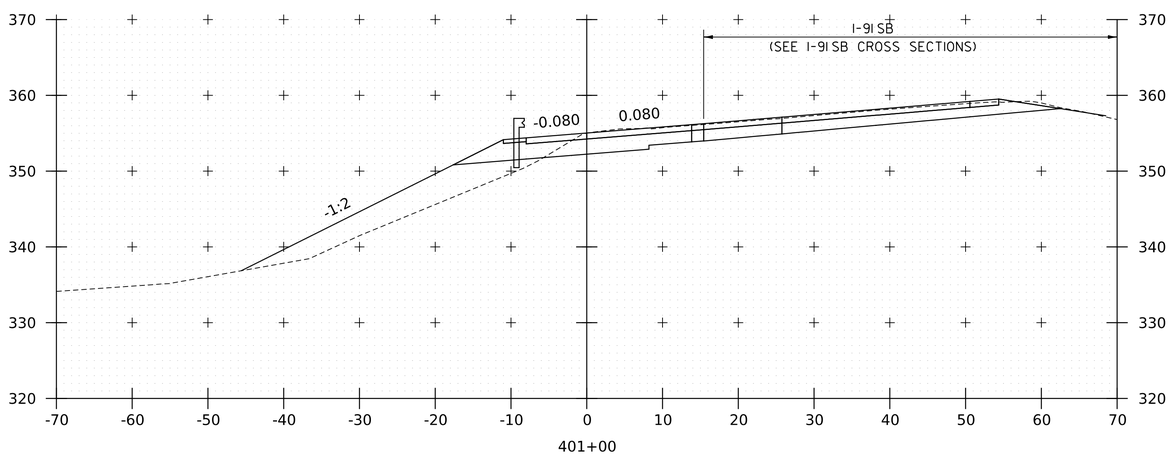

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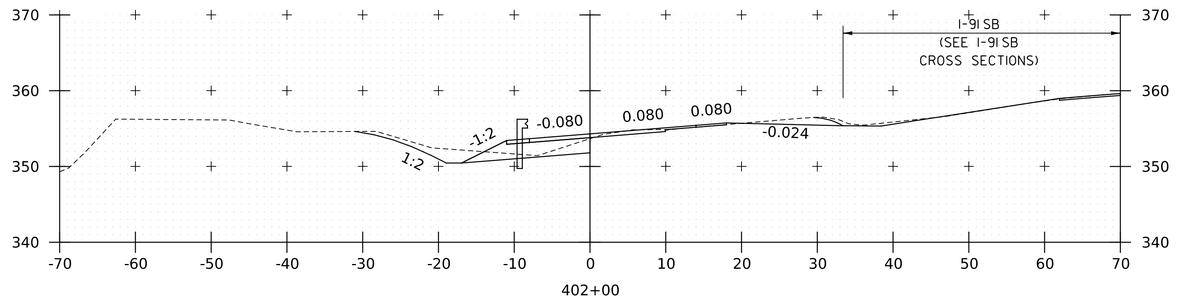

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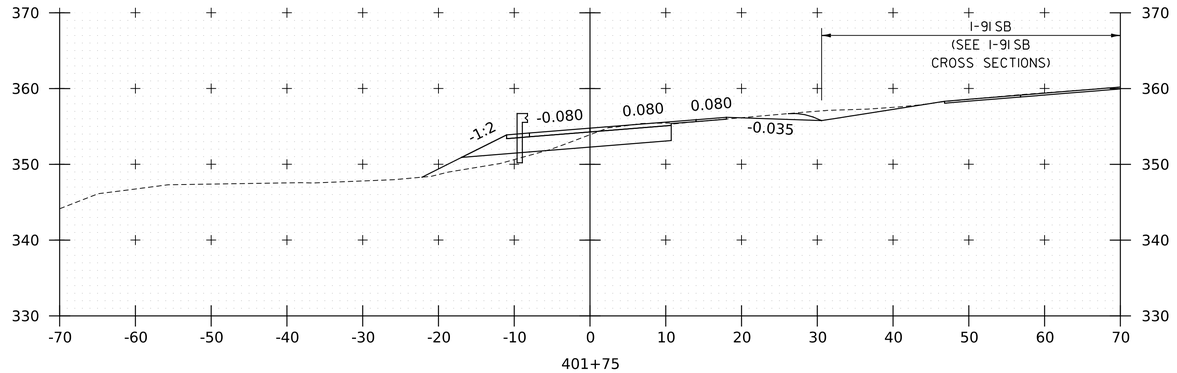

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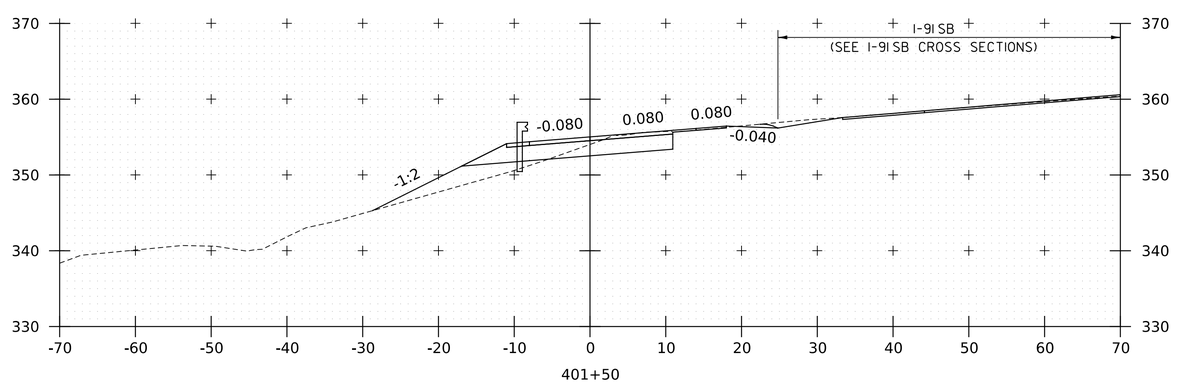


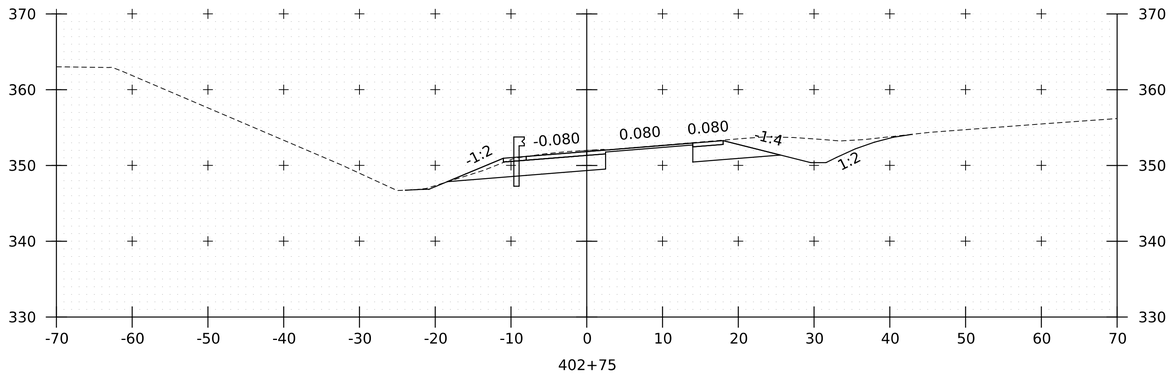
401+50

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I_91_SB_On_Ramp.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
I-91 SB ON RAMP CROSS SECTIONS 2

PLOT DATE: 28-SEP-2022
DRAWN BY: P. MCKECHNIE
CHECKED BY: C. HELMICK
SHEET 316 OF 395

HNTB



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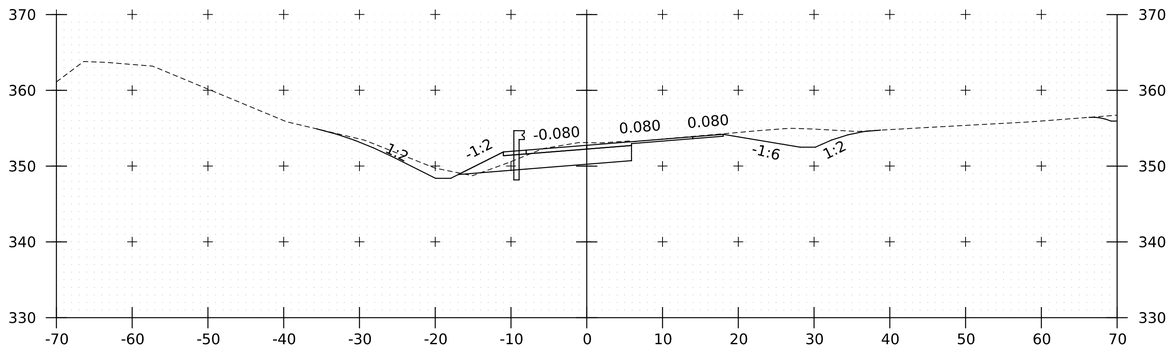

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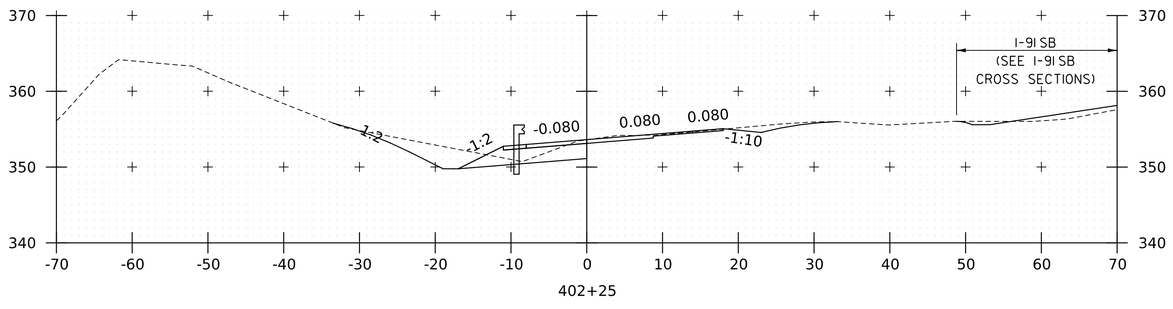

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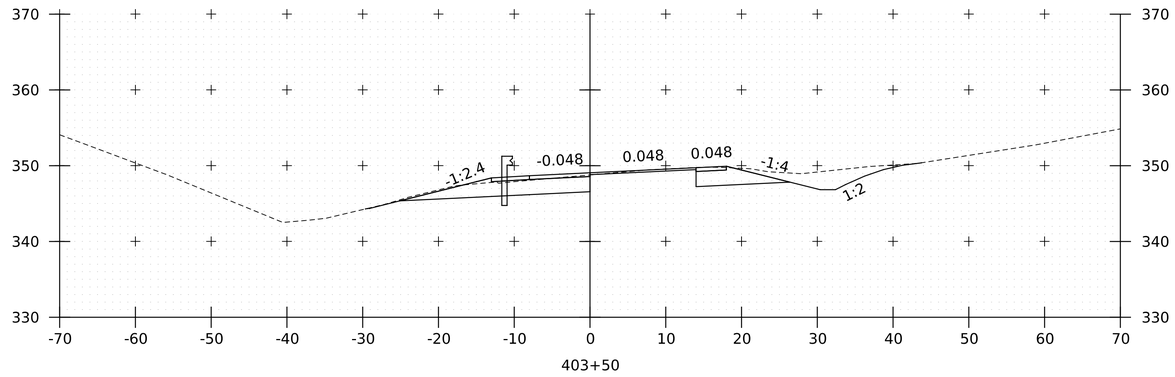

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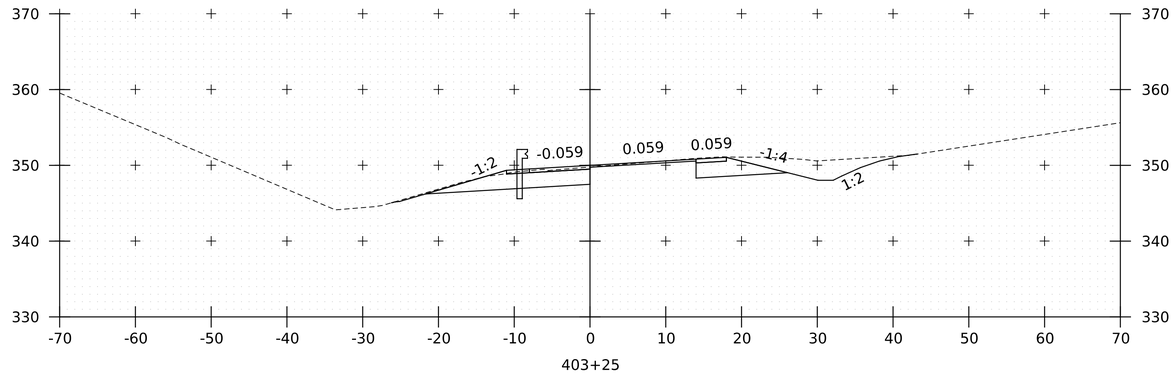

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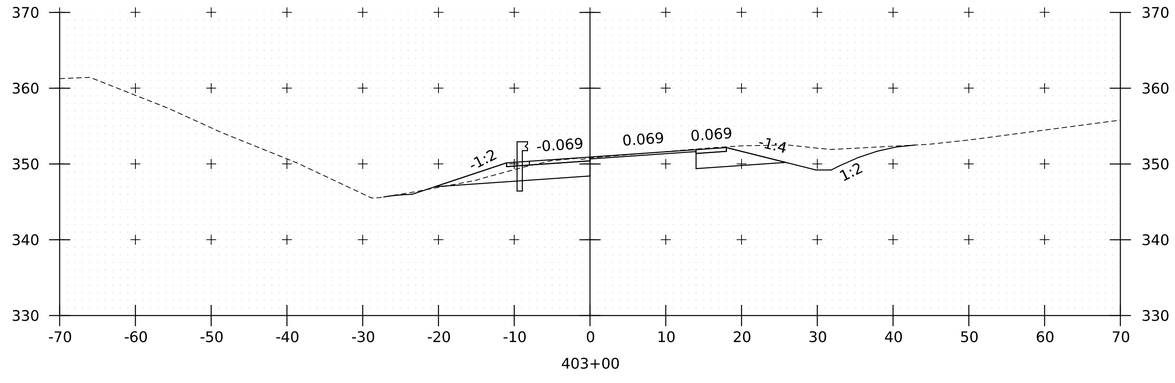
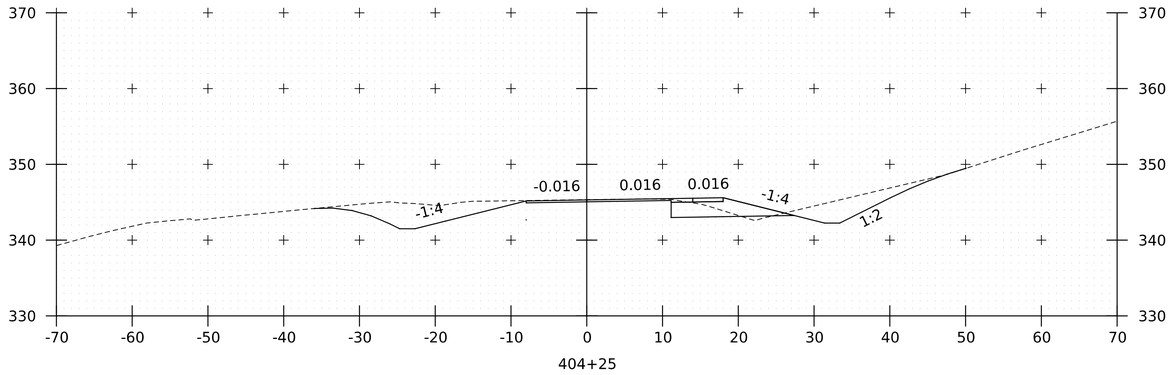


403+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_SB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB ON RAMP CROSS SECTIONS 3	SHEET 317 OF 395

HNTB



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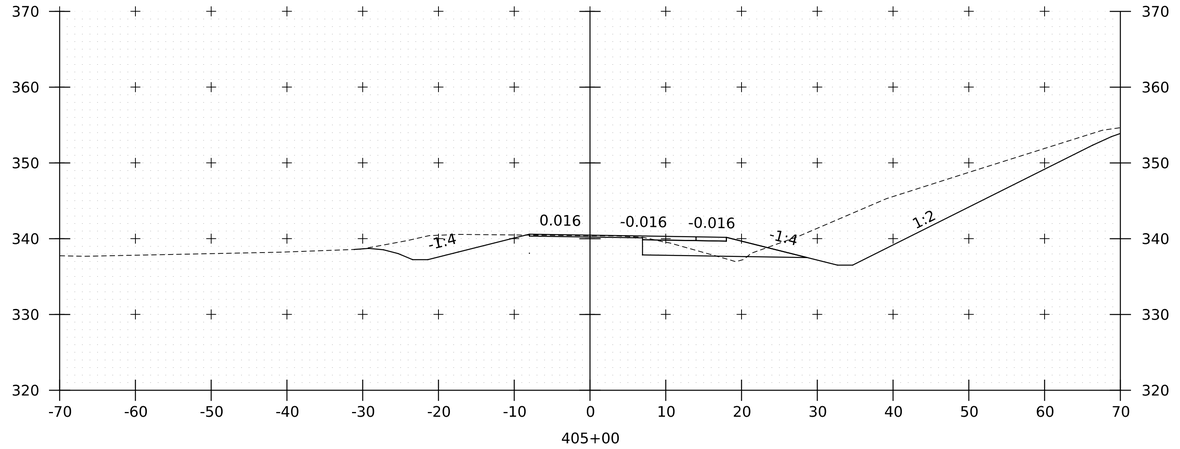

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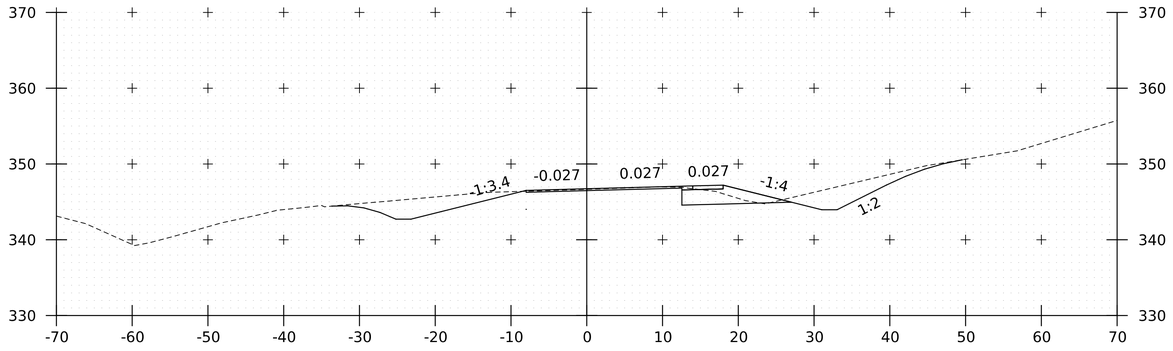

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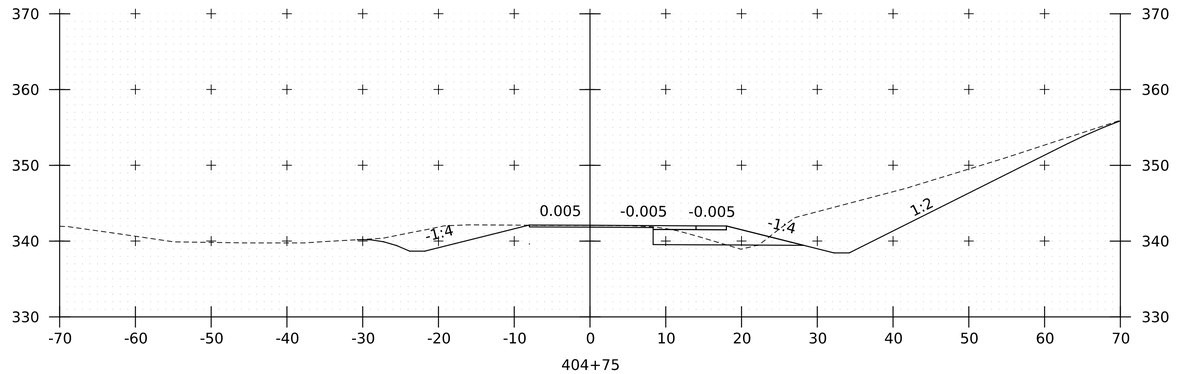

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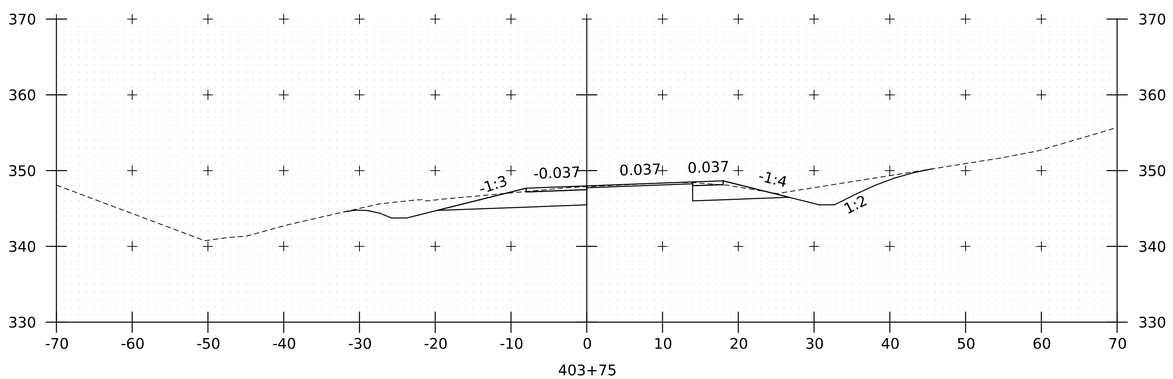

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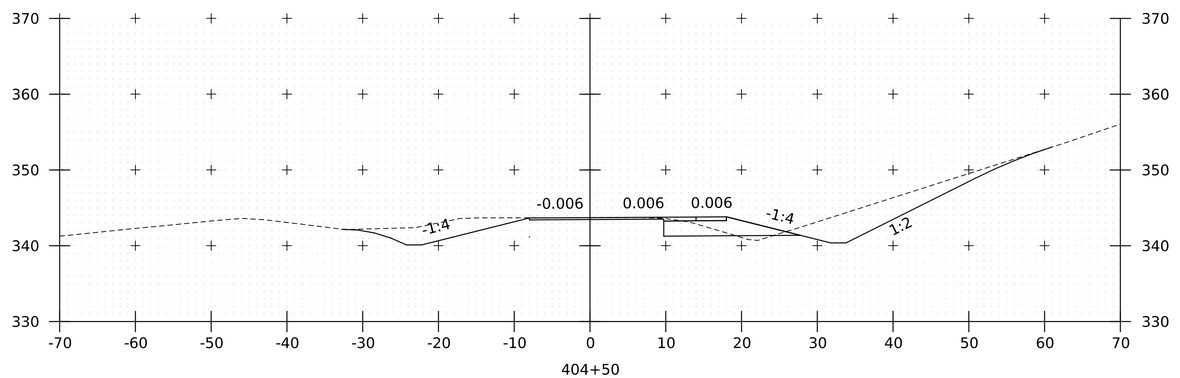
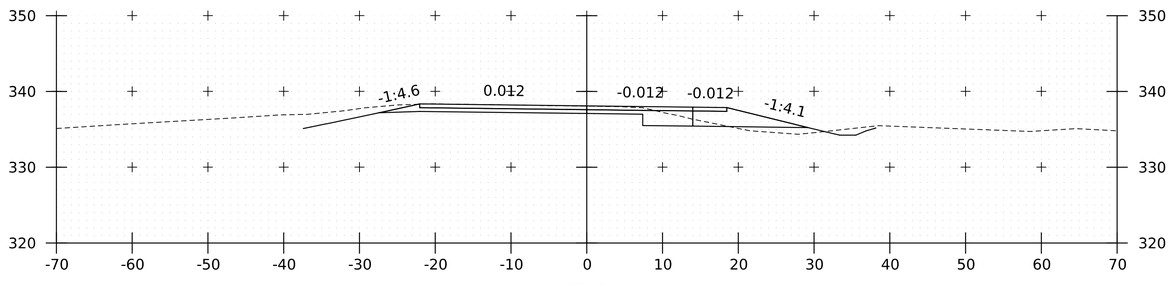


404+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_SB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB ON RAMP CROSS SECTIONS 4	SHEET 318 OF 395

HNTB



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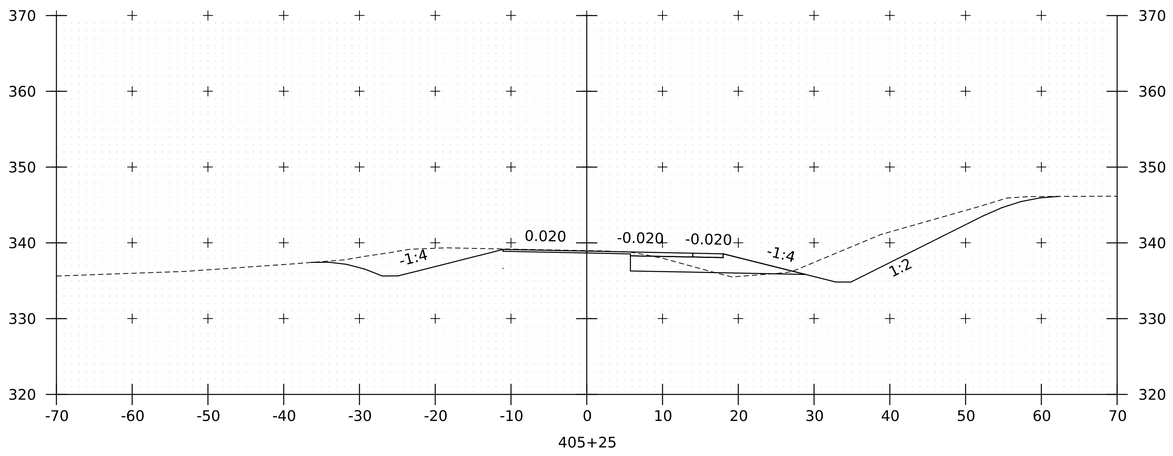
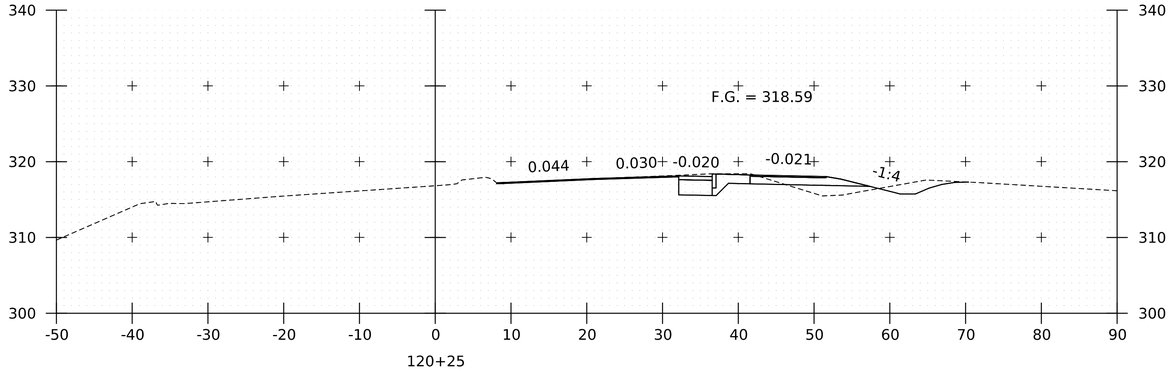


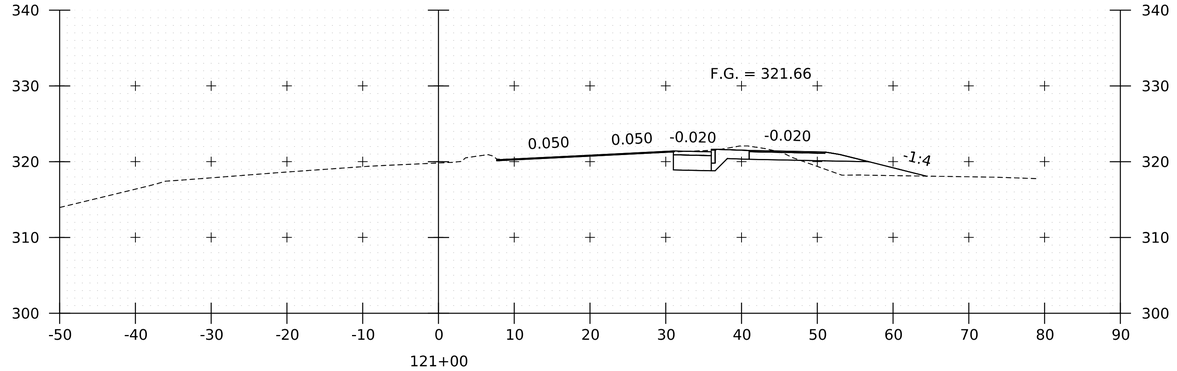
405+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_I_91_SB_On_Ramp.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB ON RAMP CROSS SECTIONS 5	SHEET 319 OF 395

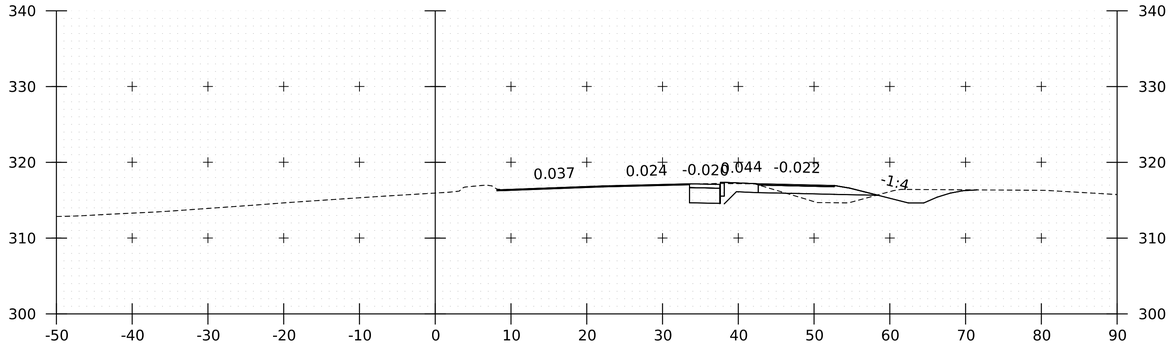
HNTB



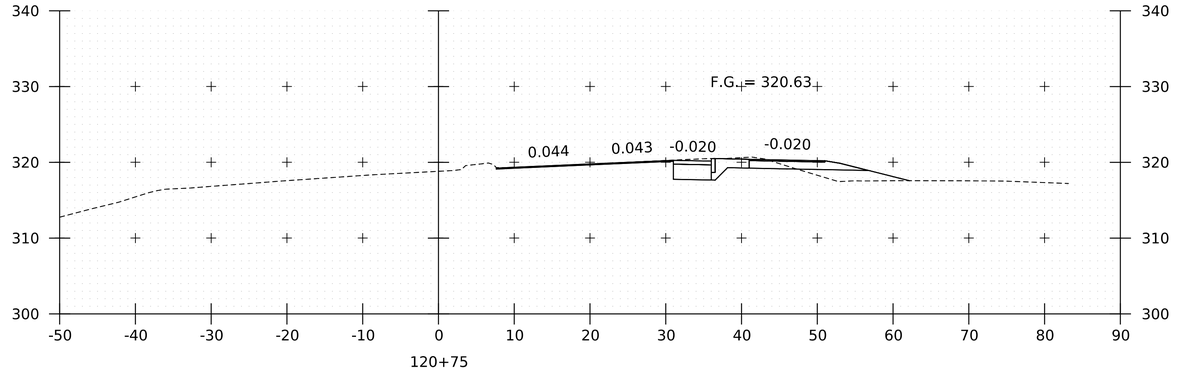
120+25



121+00



120+00
BEGIN ROUTE 5 NB APPROACH
MATCH EXISTING



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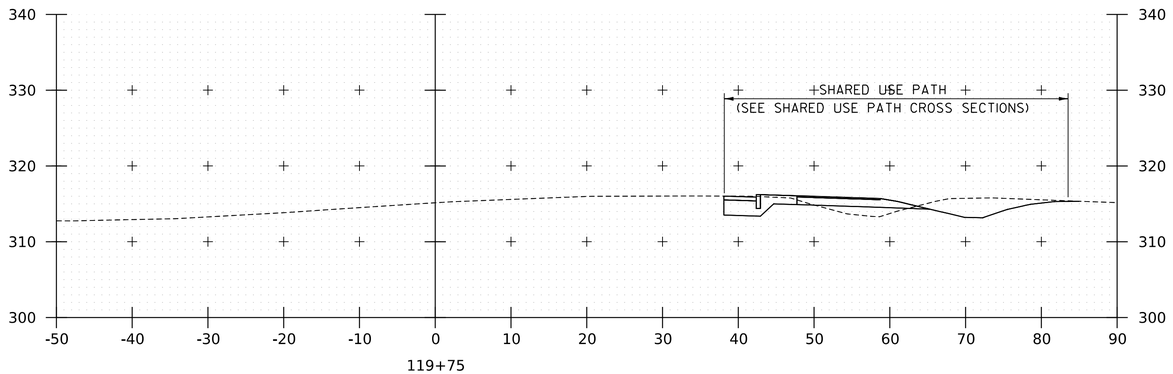

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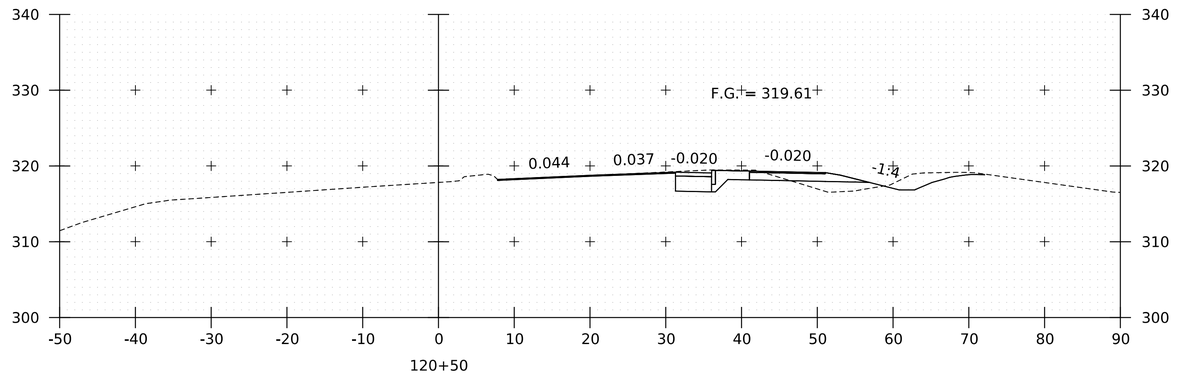
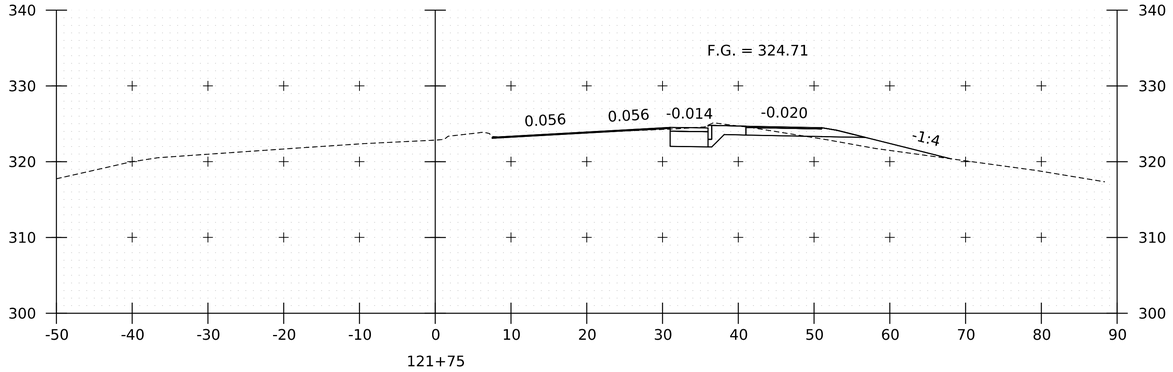


120+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS I	SHEET 320 OF 395

HNTB



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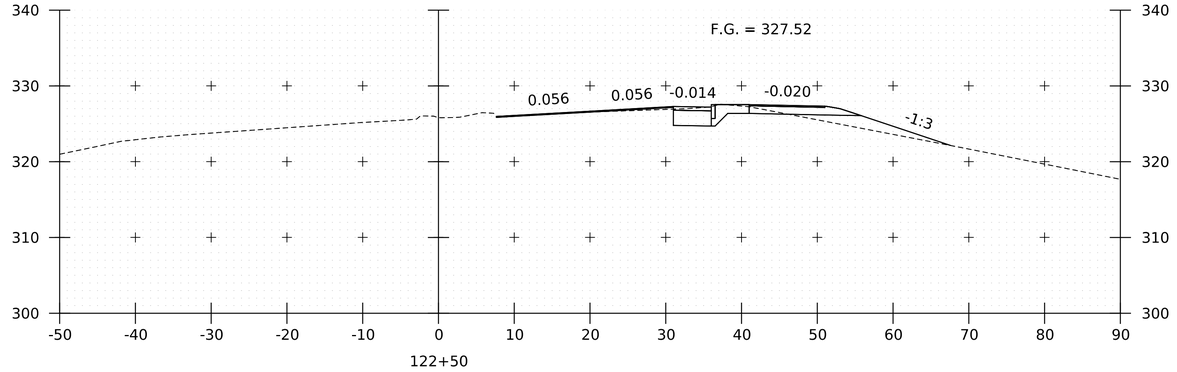

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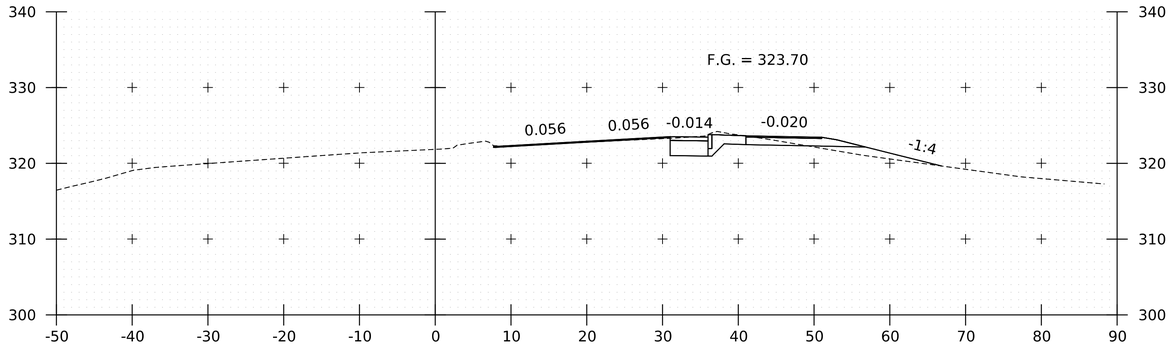

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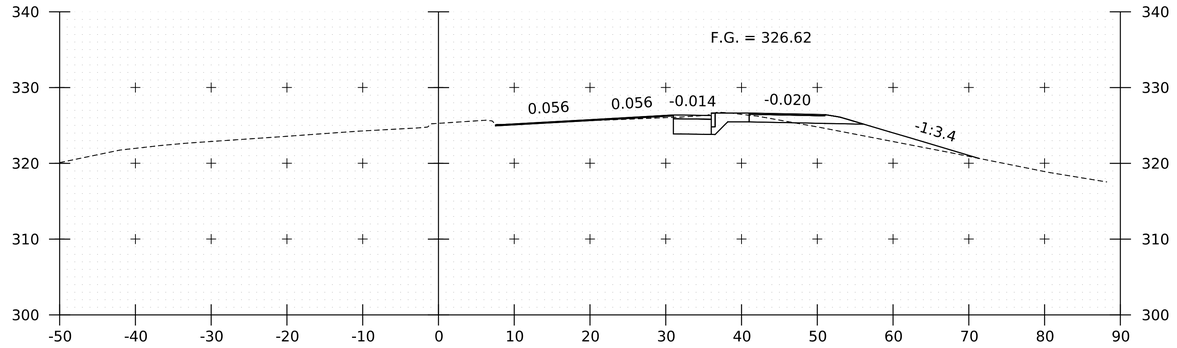

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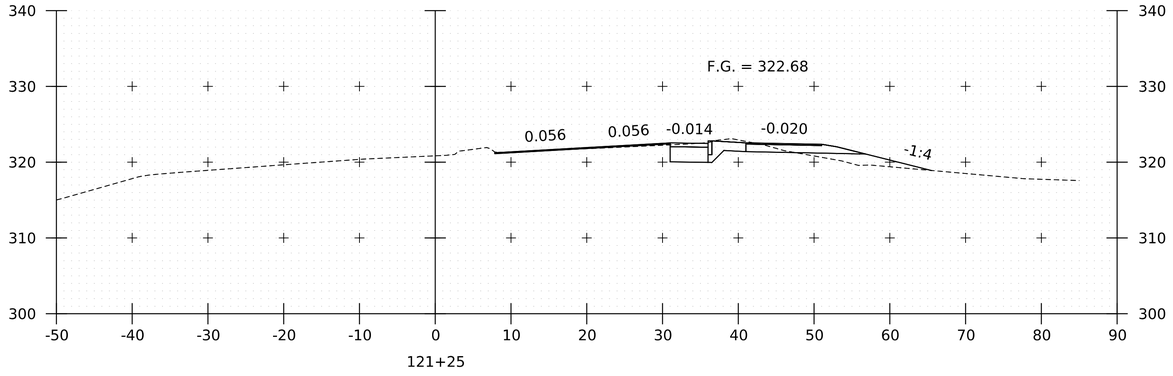

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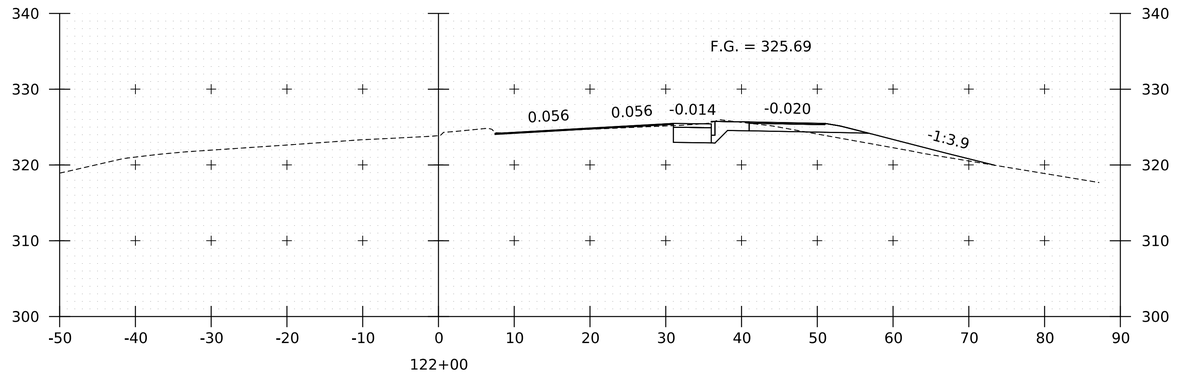


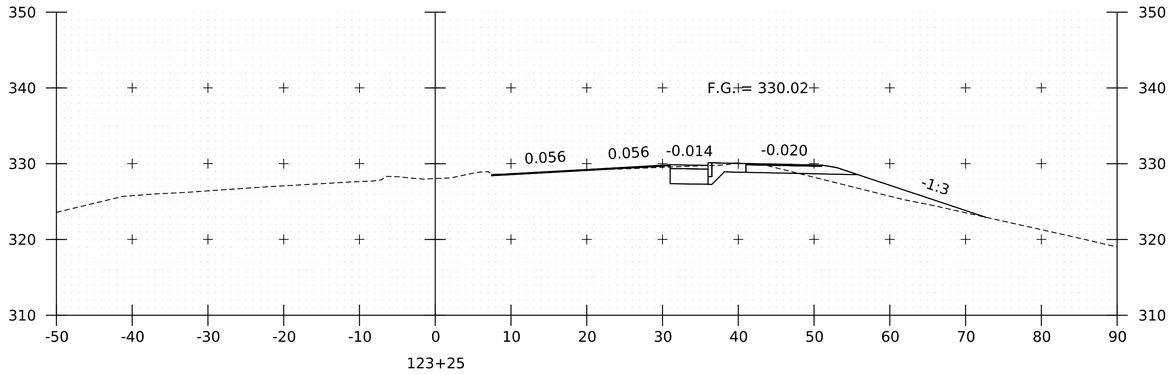
122+00

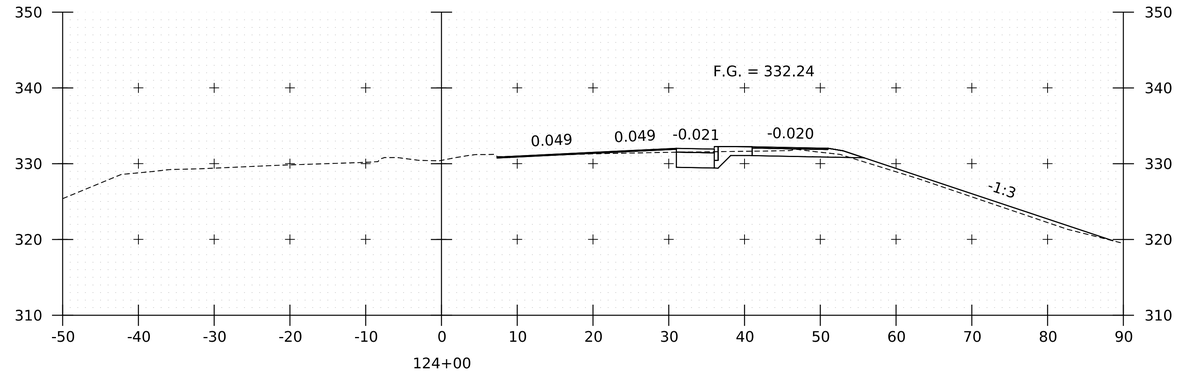
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

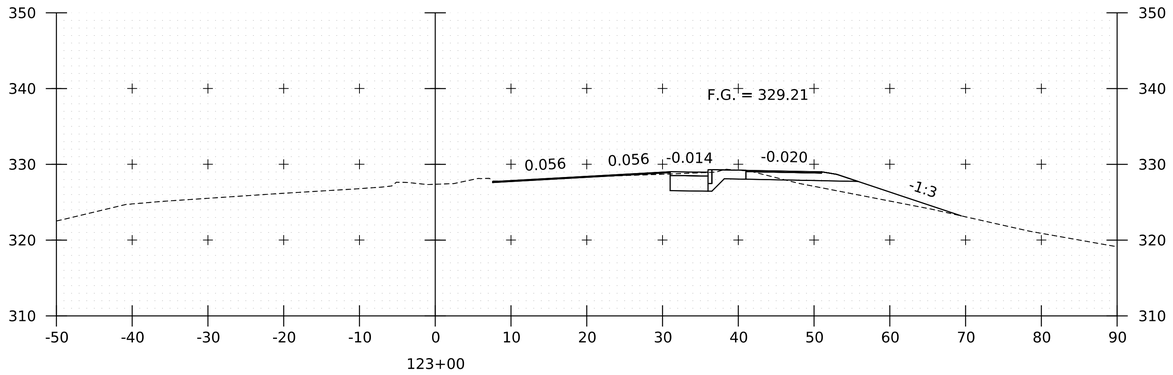
FILE NAME: zl2a574xs_CharlestownRd.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
CHARLESTOWN RD CROSS SECTIONS 2

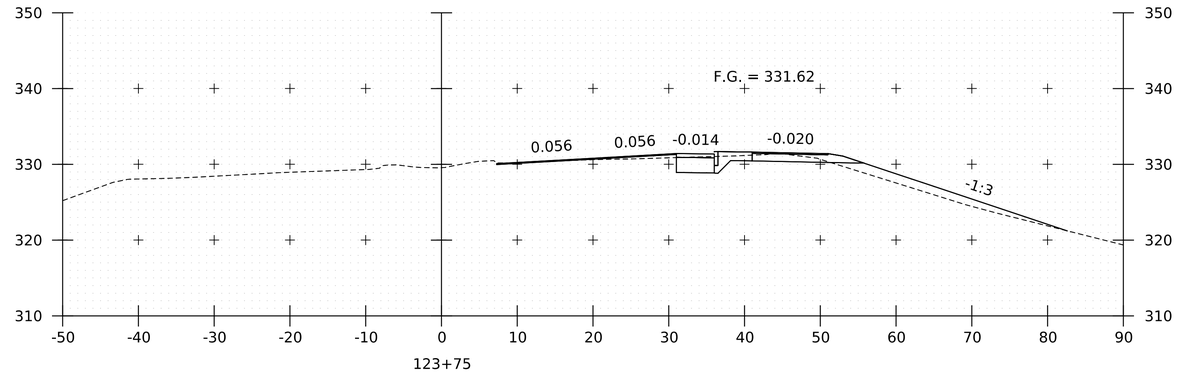
PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 321 OF 395

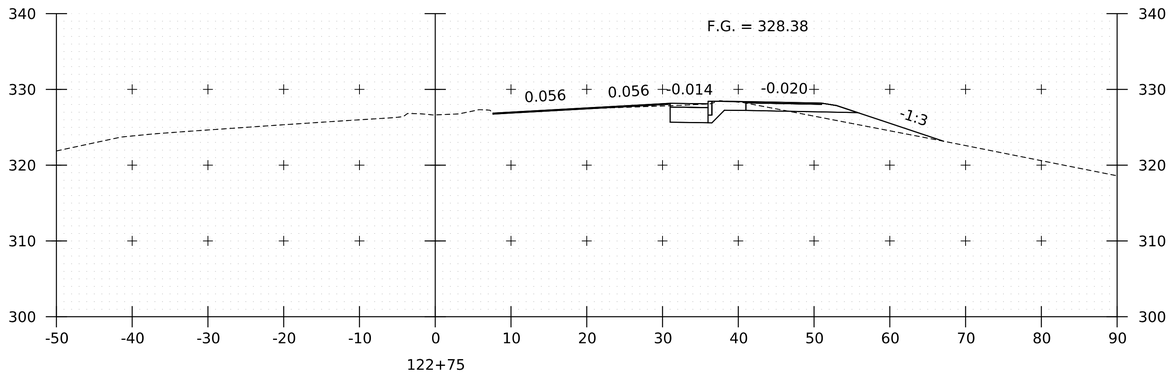
HNTB

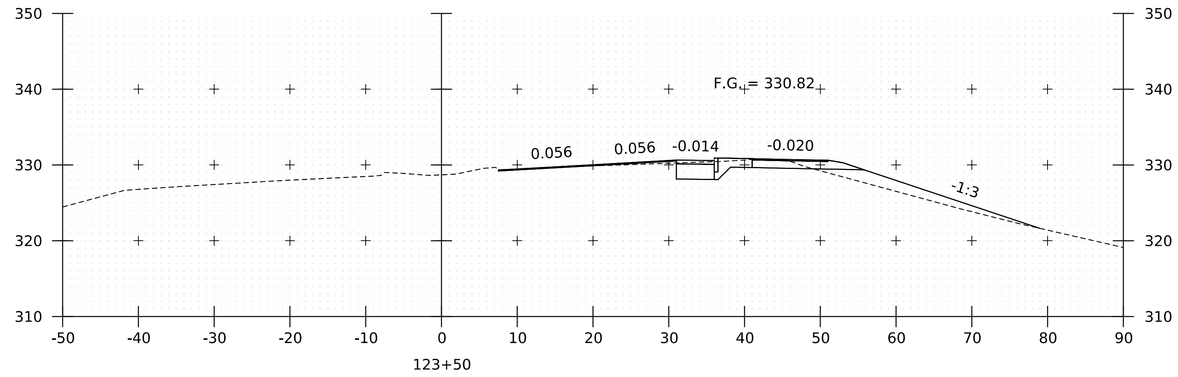






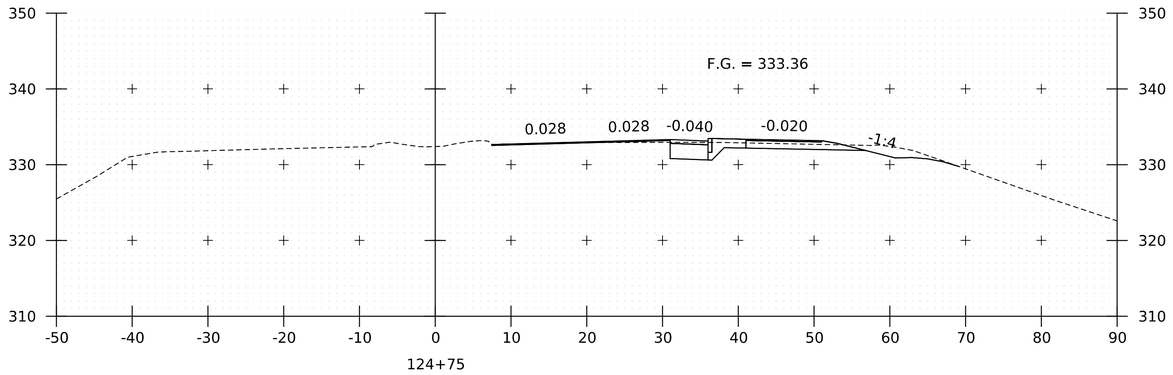


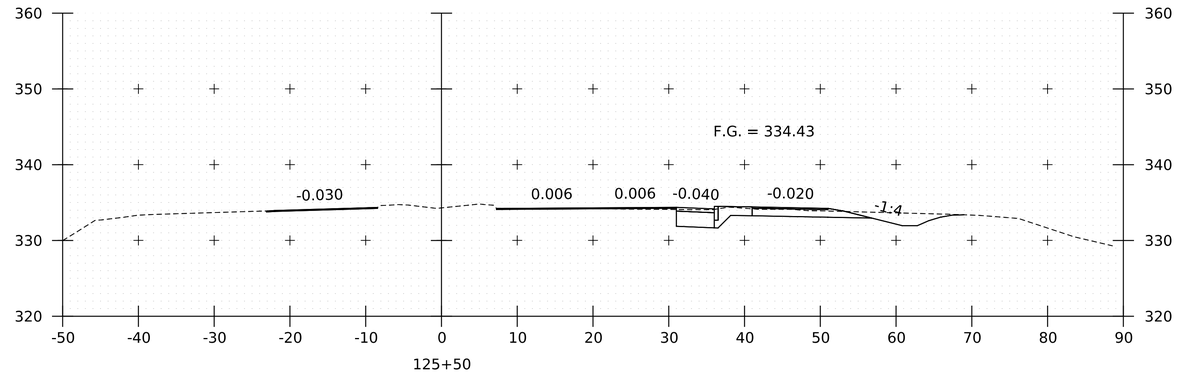


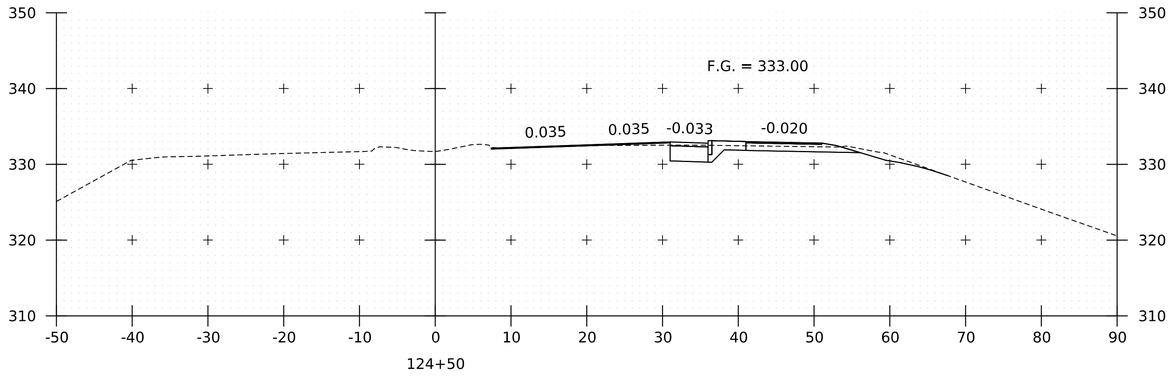


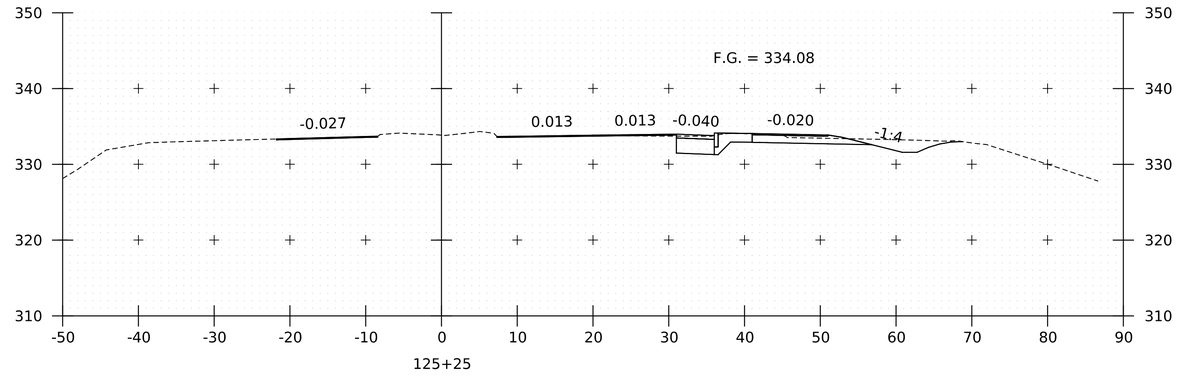
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 3	SHEET 322 OF 395

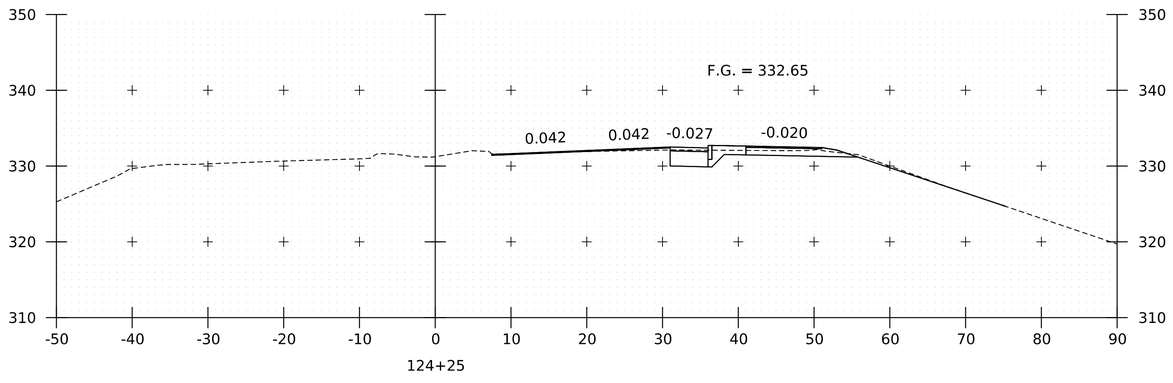
HNTB

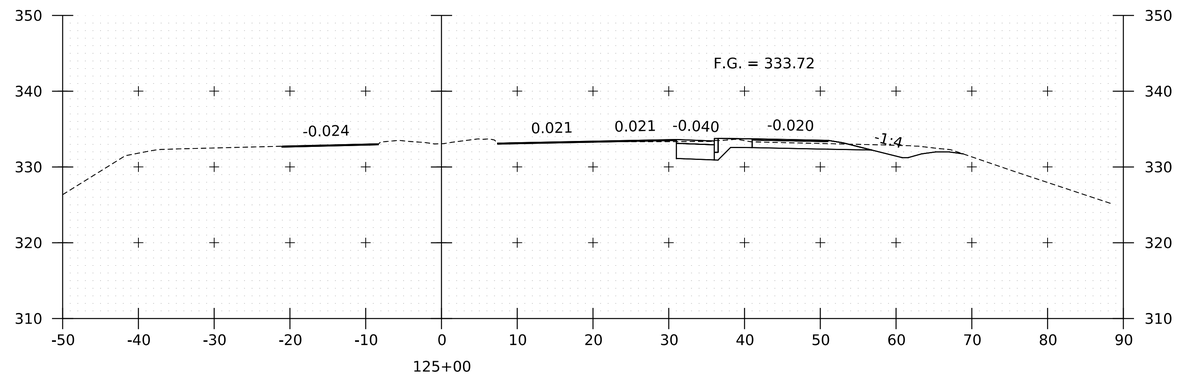








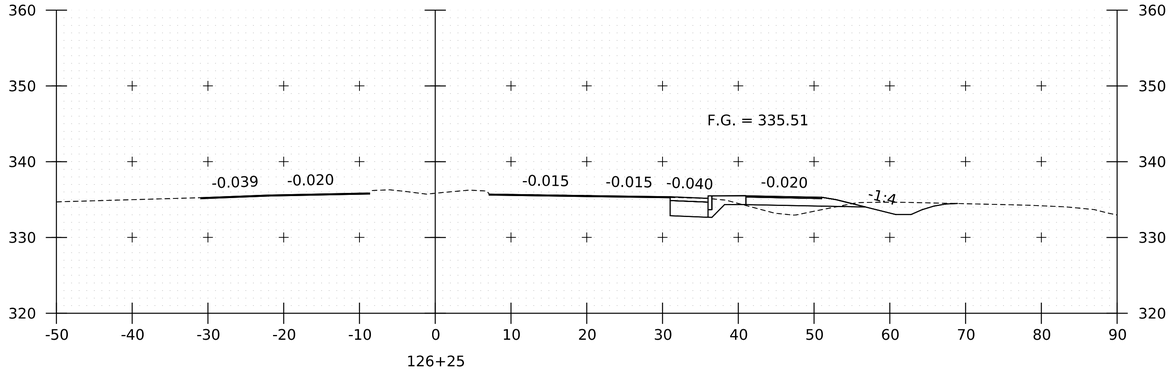


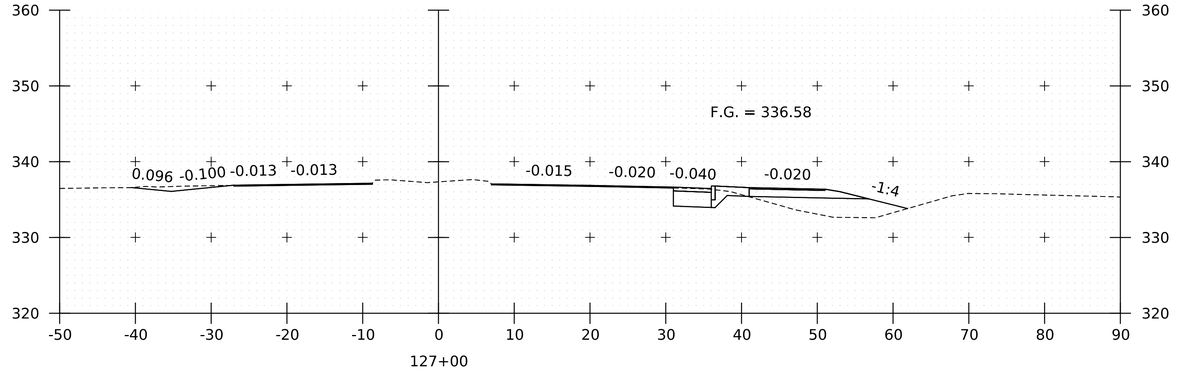


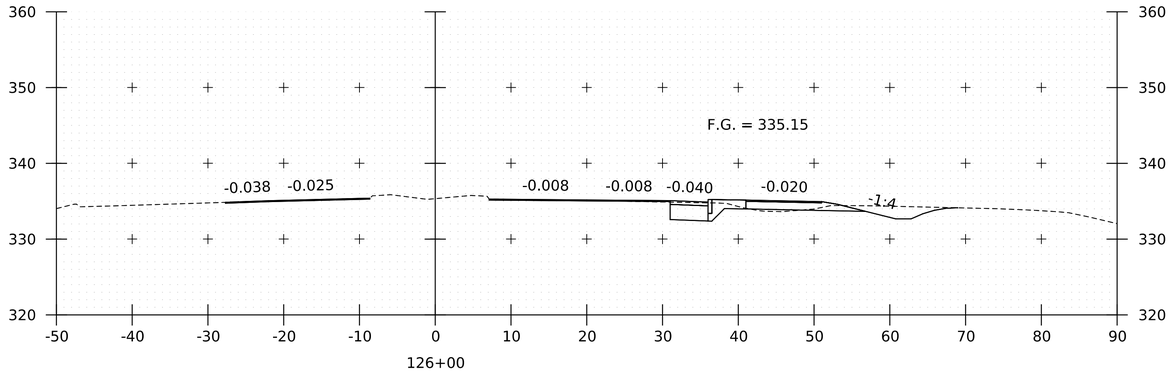
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

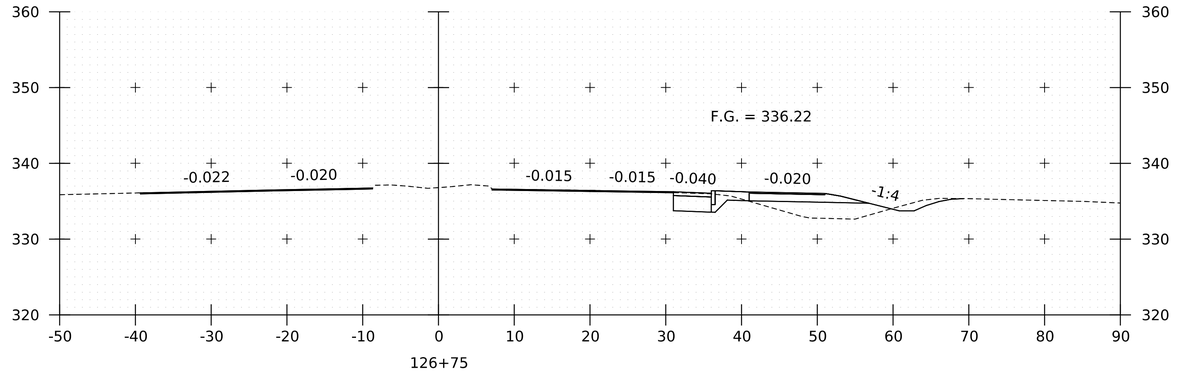
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 4	SHEET 323 OF 395

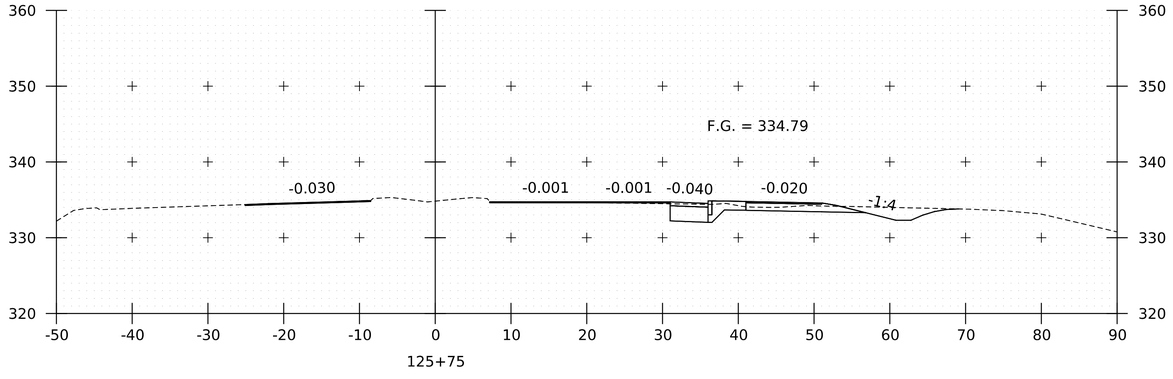
HNTB

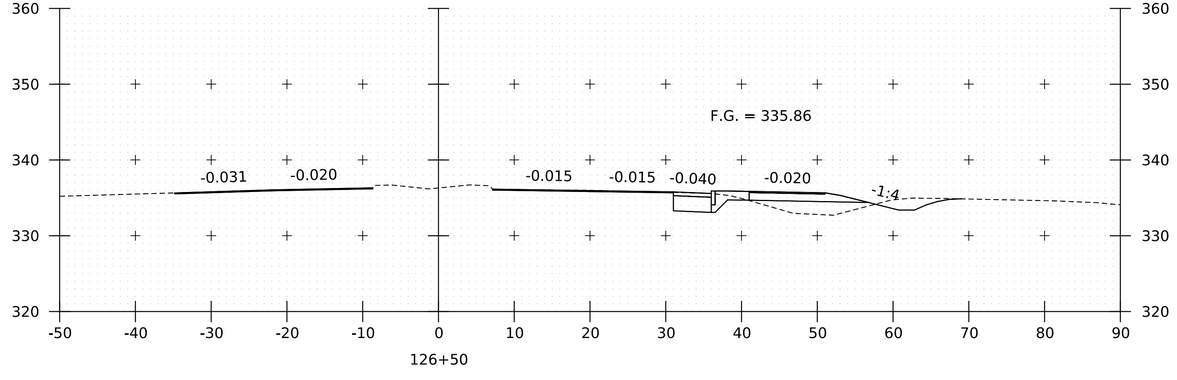








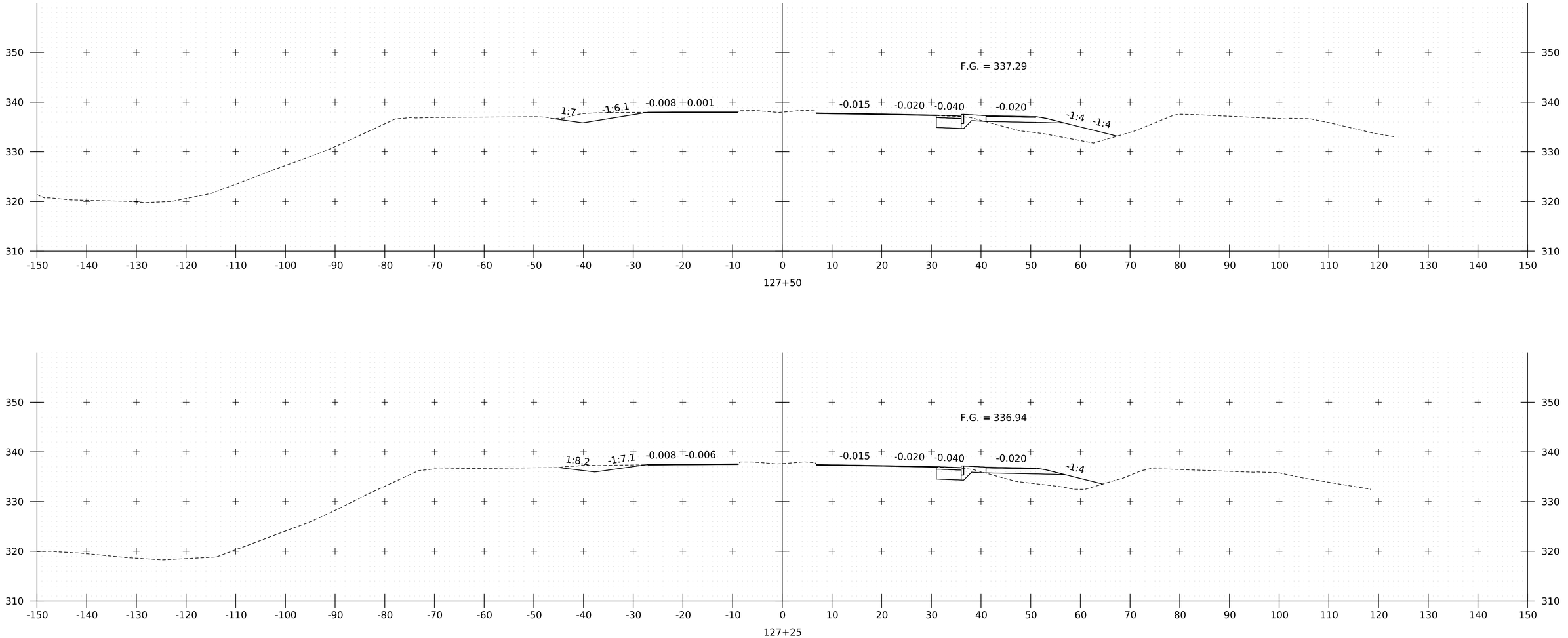




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

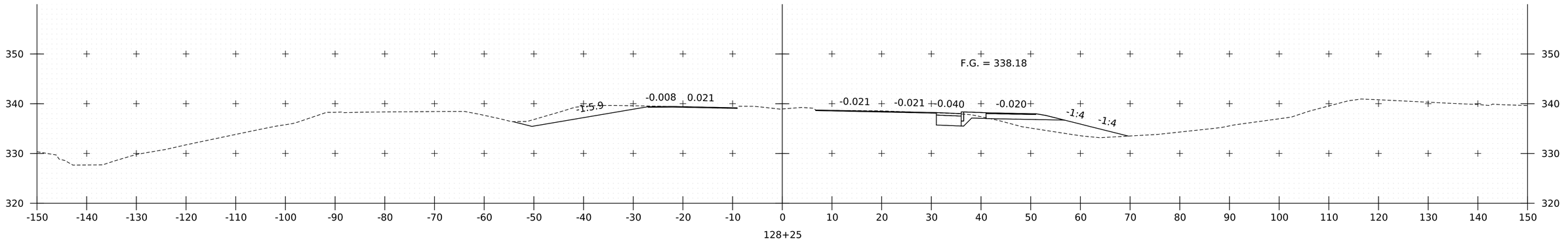
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 5	SHEET 324 OF 395

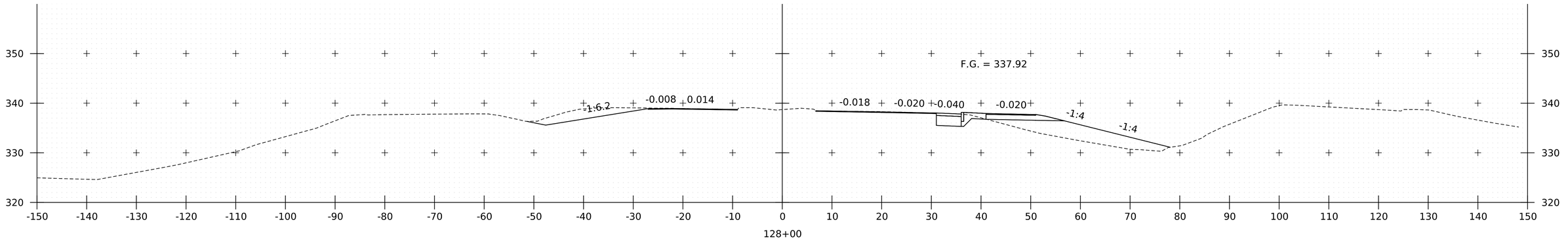
HNTB

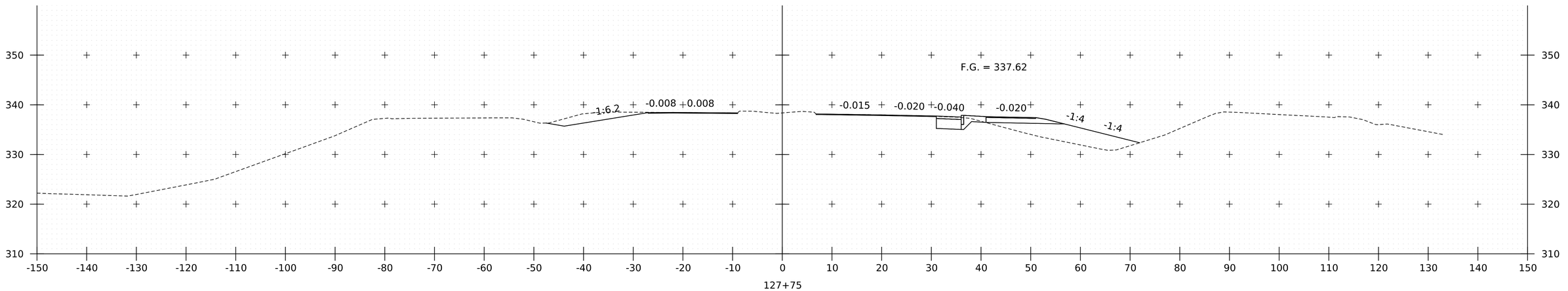


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 6	SHEET 325 OF 395

HNTB



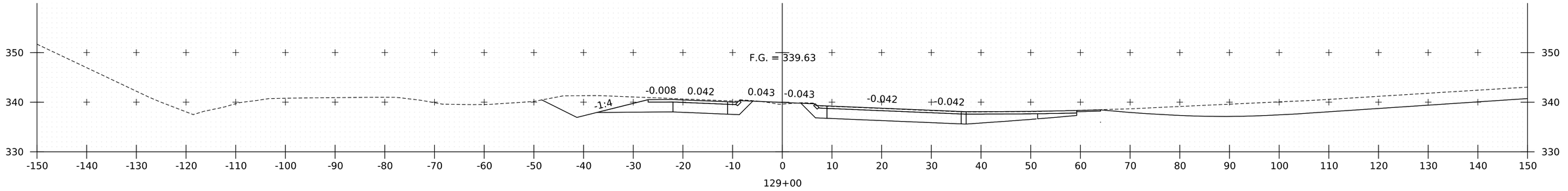




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_CharlestownRd.dgn		PLOT DATE:	28-SEP-2022
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 7		SHEET	326 OF 395

HNTB



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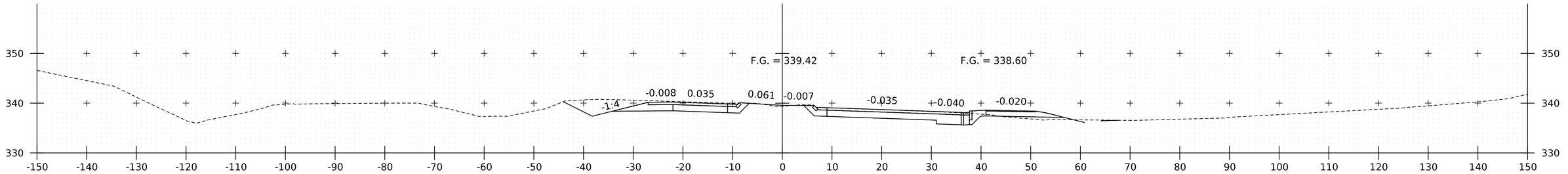
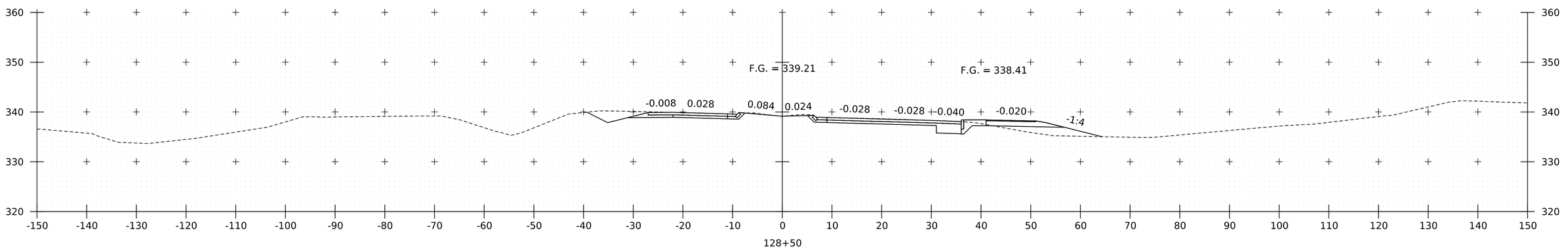
BEGIN PROJECT



128+75

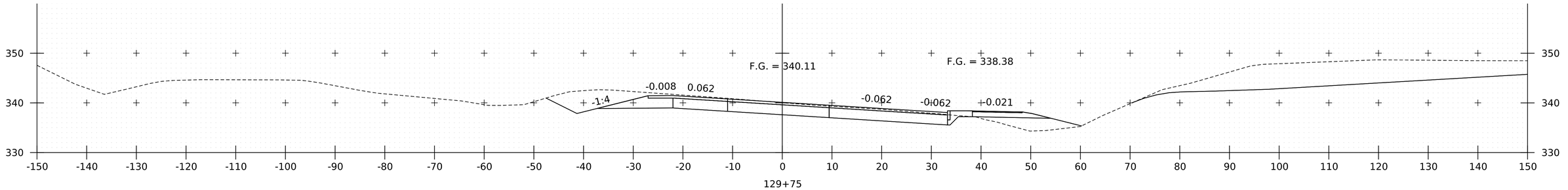


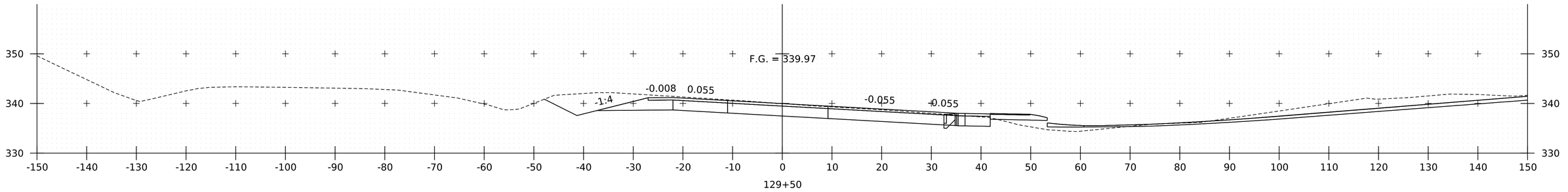
128+50

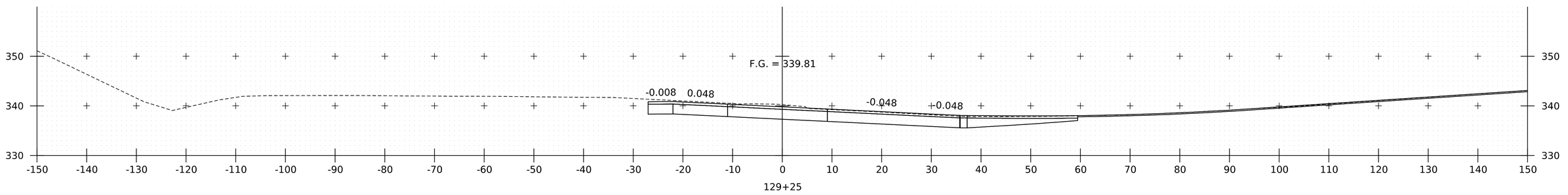
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 8	SHEET 327 OF 395



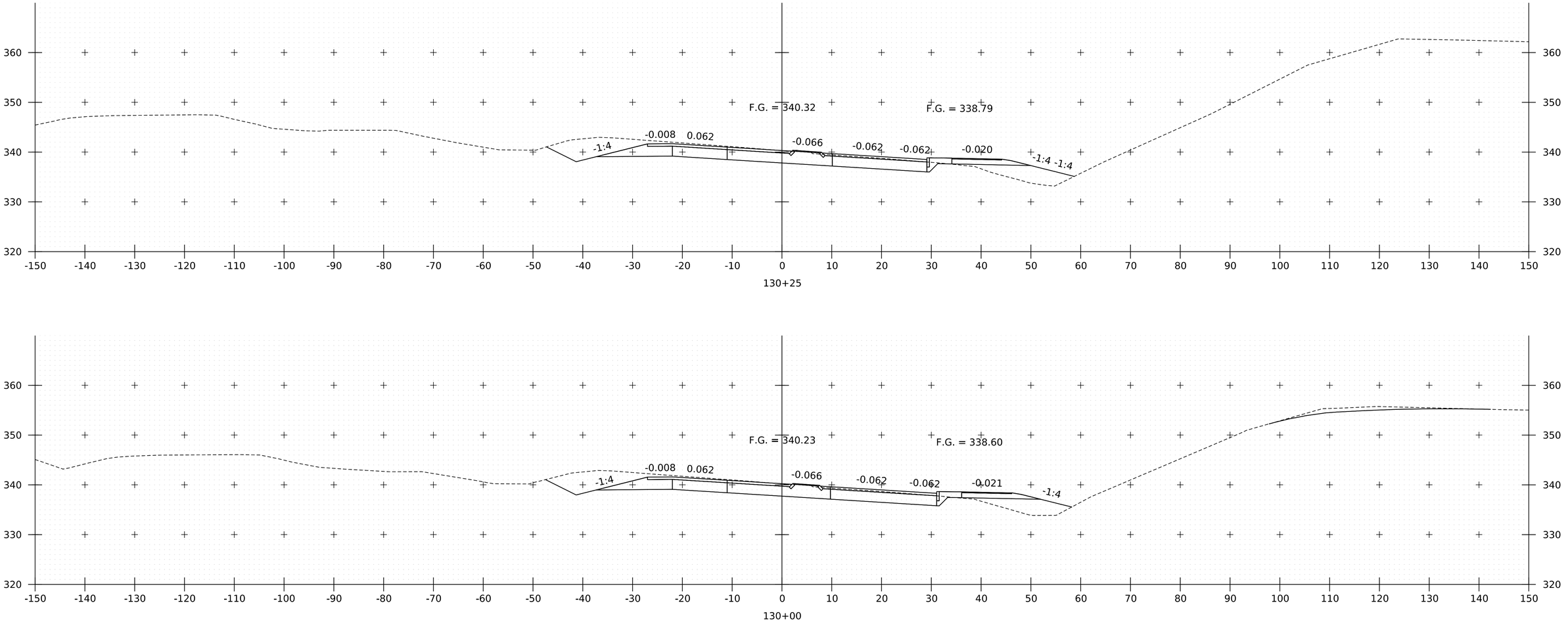




HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

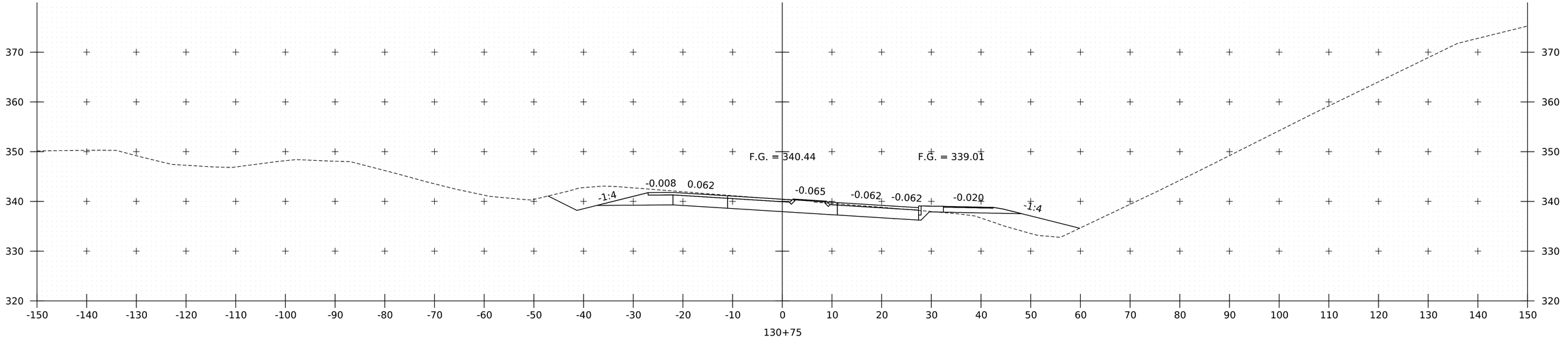
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 9	SHEET 328 OF 395



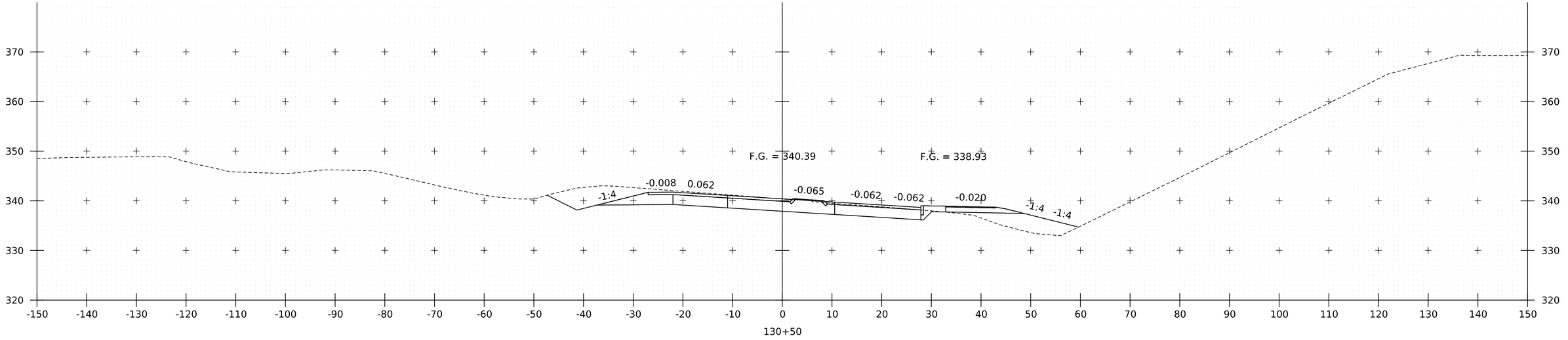
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 10	SHEET 329 OF 395

HNTB



130+75



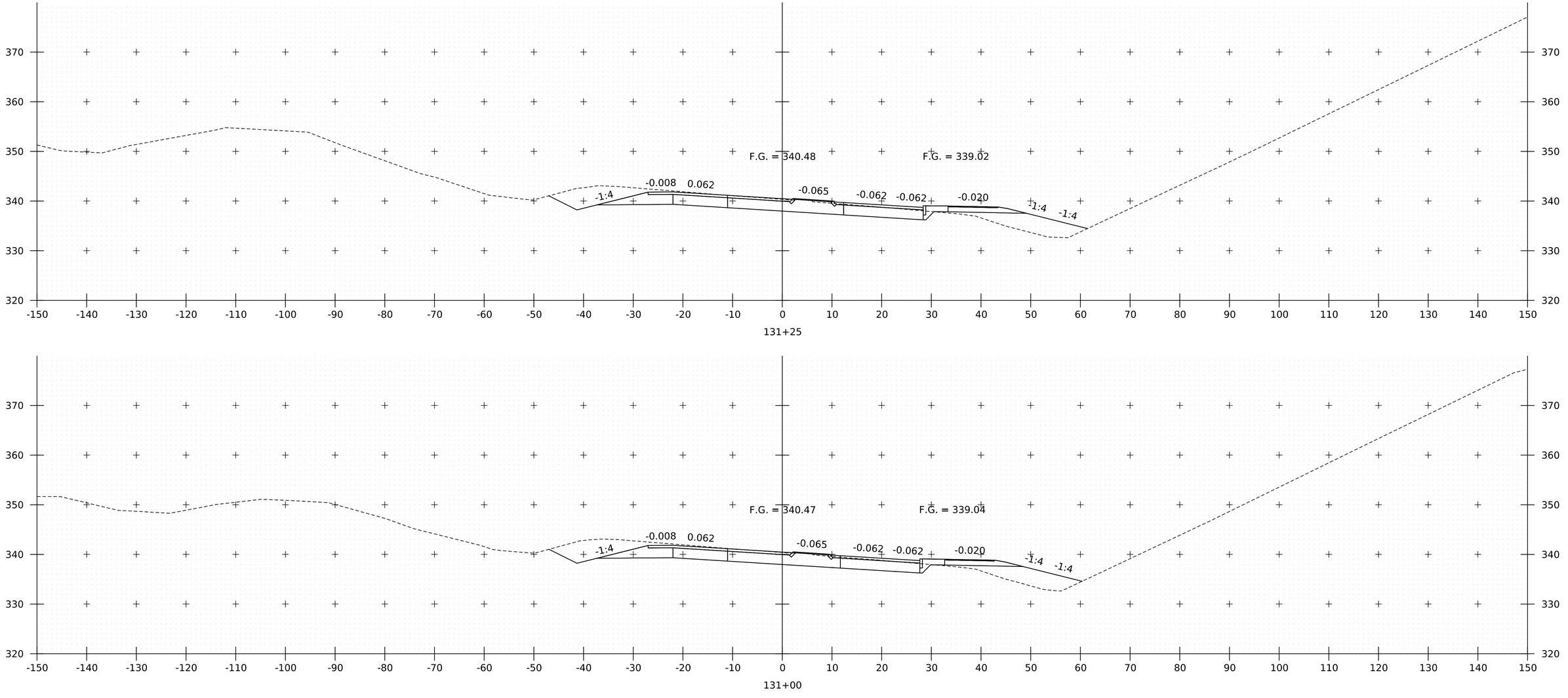
130+50

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_CharlestownRd.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
CHARLESTOWN RD CROSS SECTIONS II

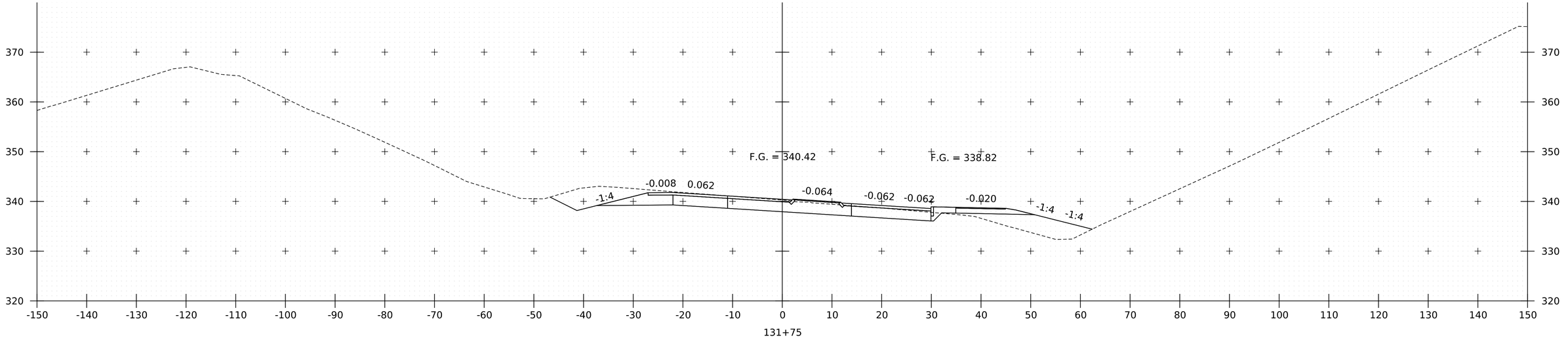
PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 330 OF 395

HNTB

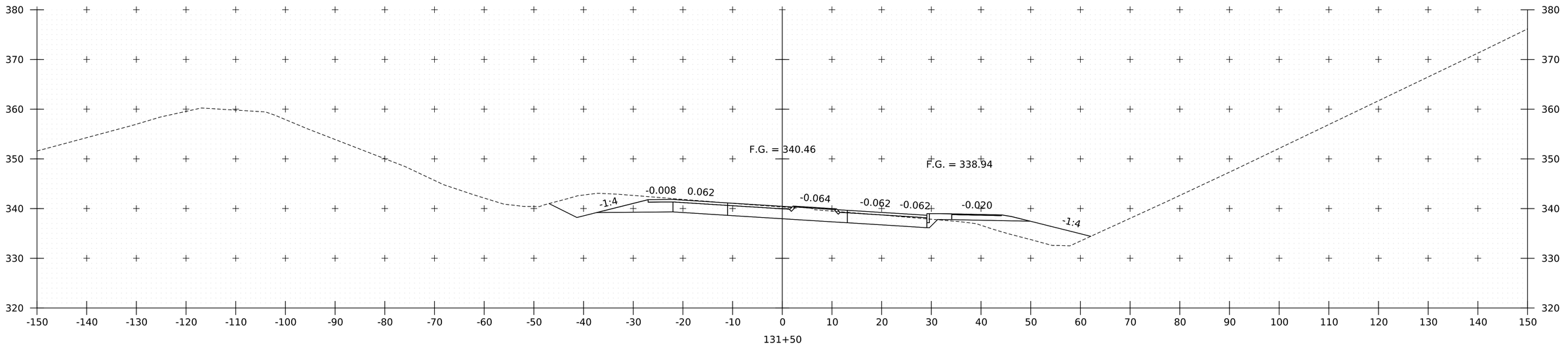


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 12	SHEET 331 OF 395

HNTB



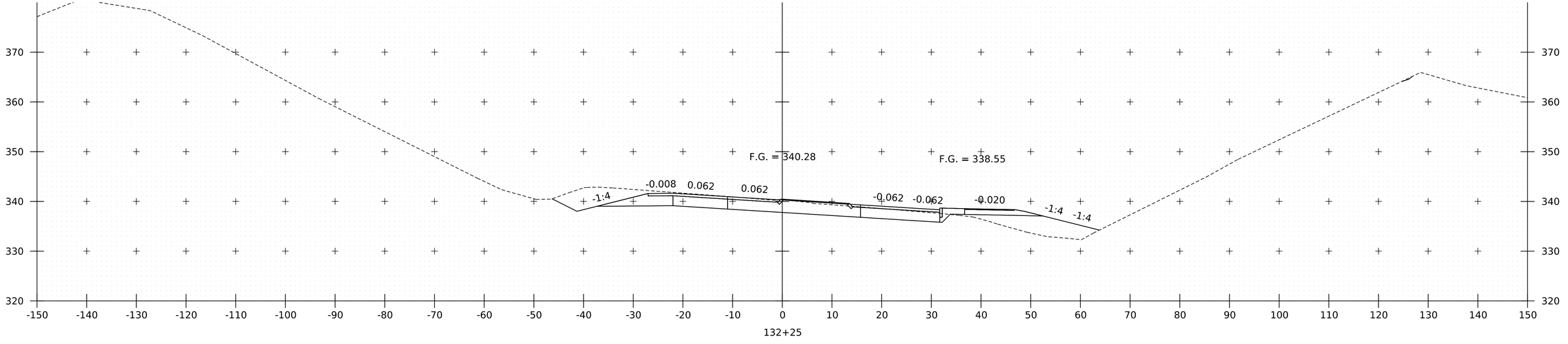
131+75

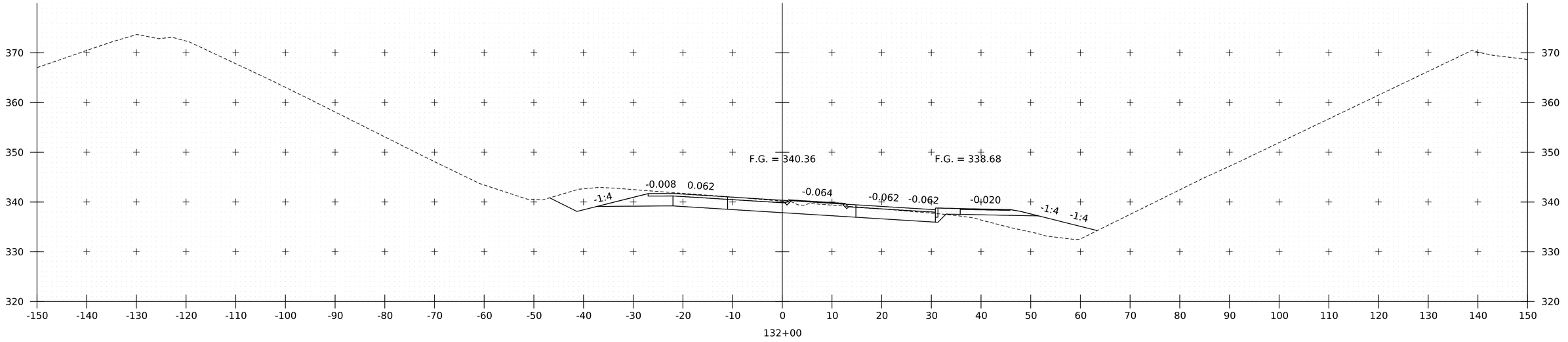


131+50

HNTB

PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 13	SHEET 332 OF 395

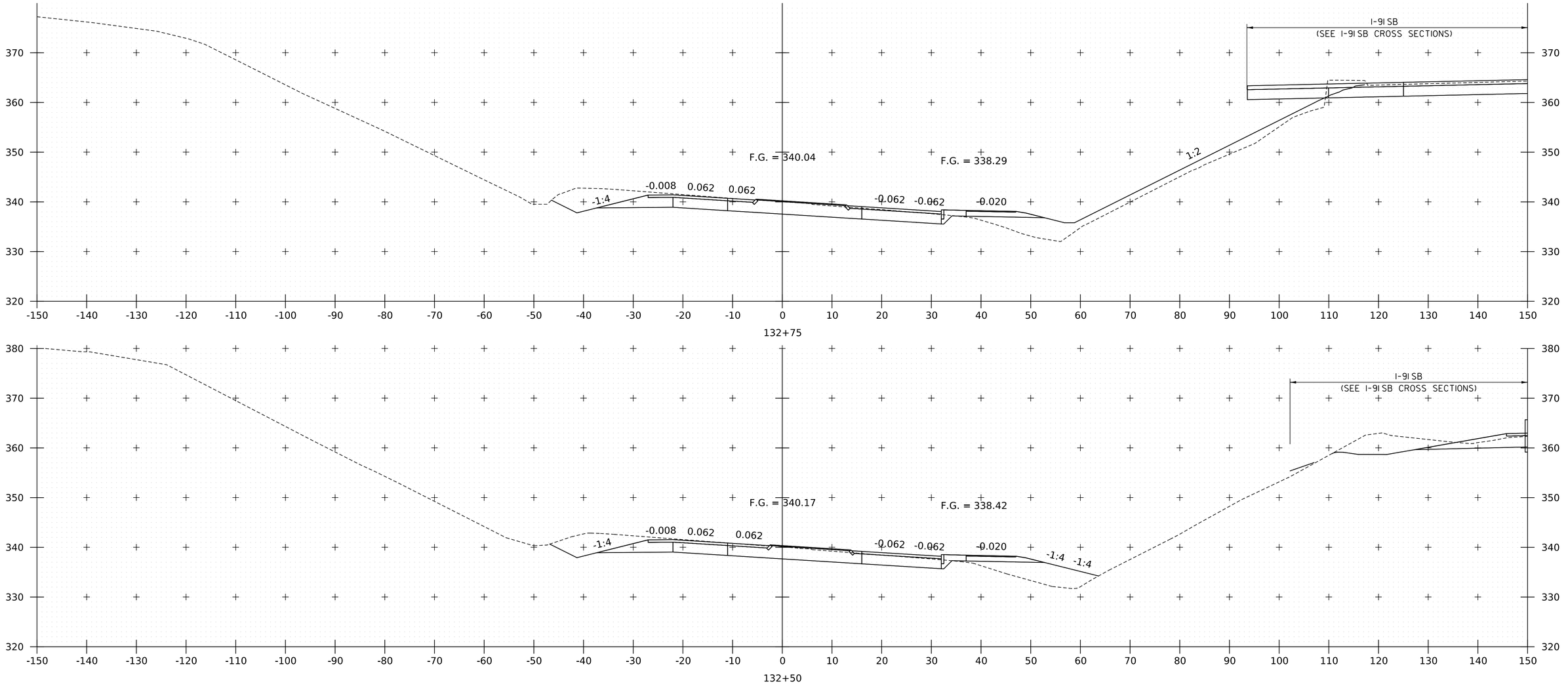




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

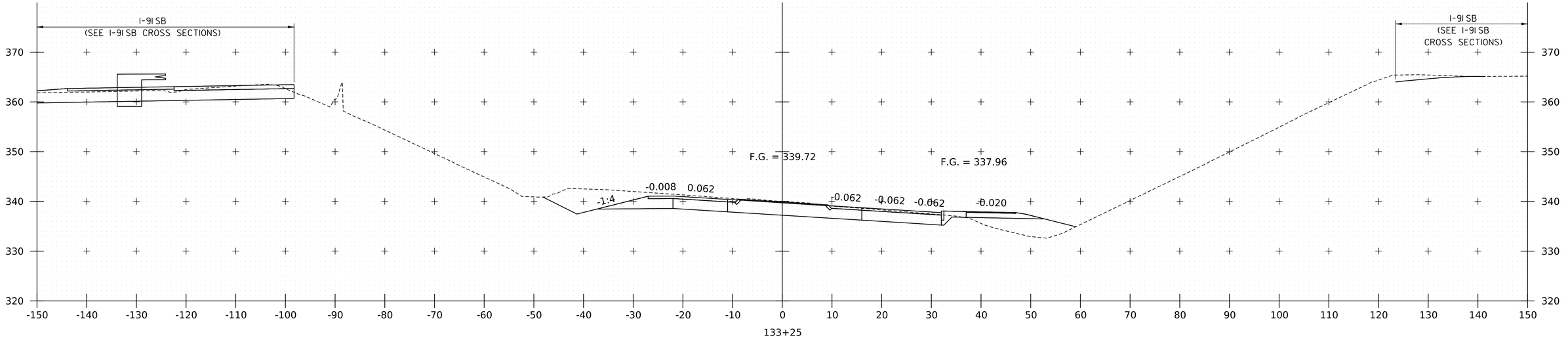
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 14	SHEET 333 OF 395

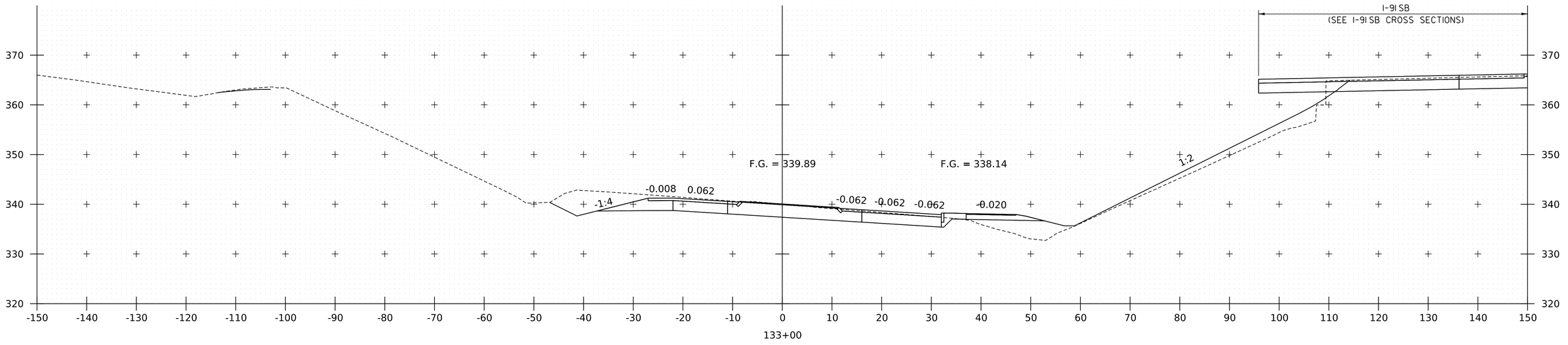
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS I5	SHEET 334 OF 395

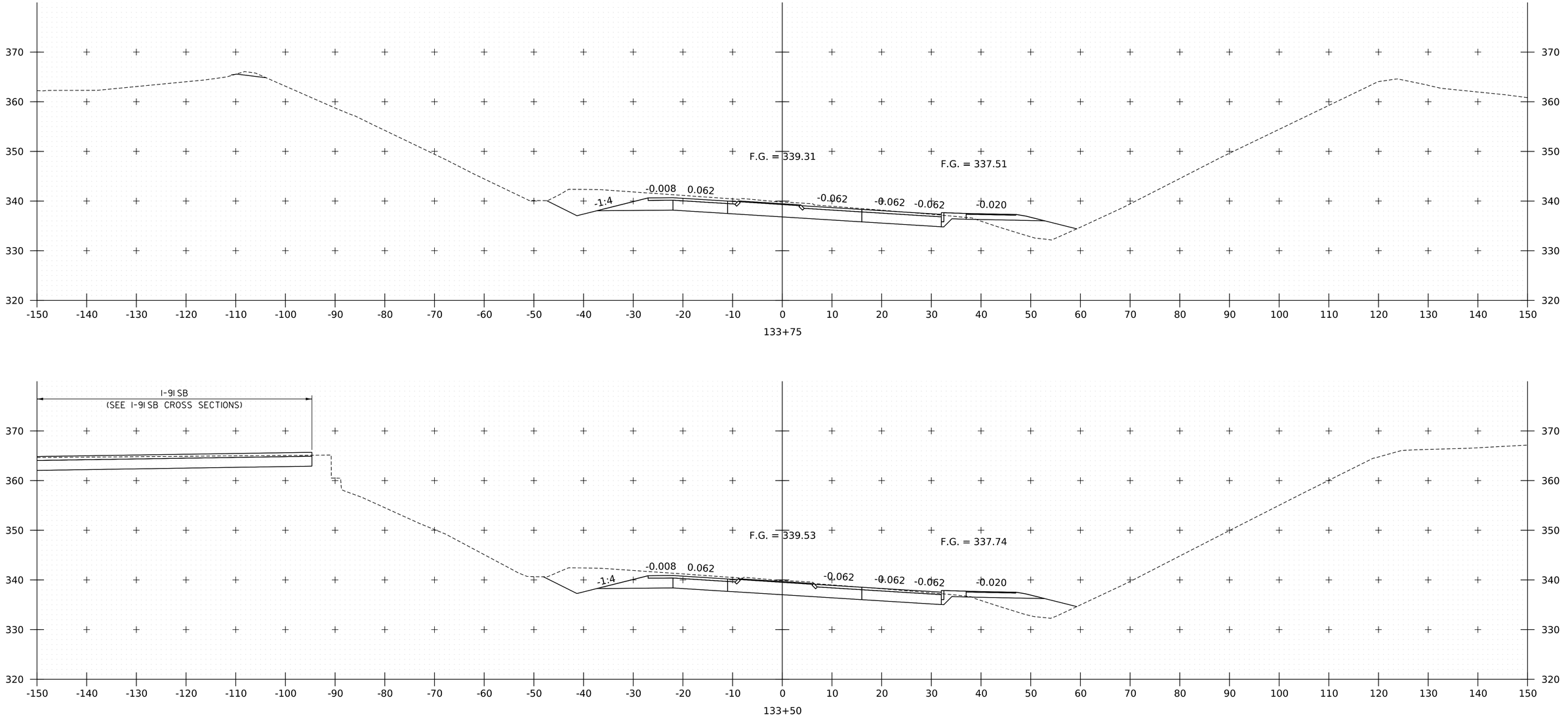
HNTB





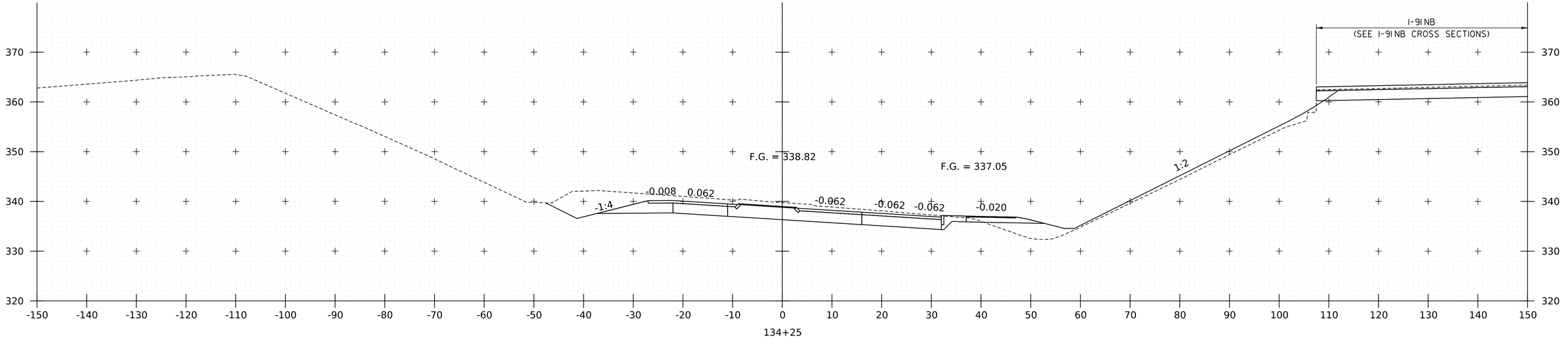
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 16	SHEET 335 OF 395

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 17	SHEET 336 OF 395

HNTB



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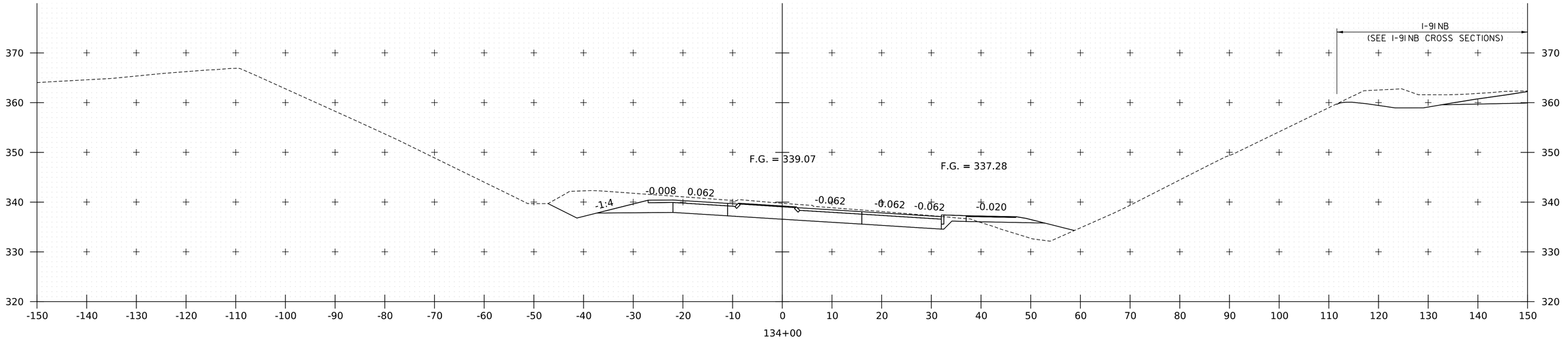
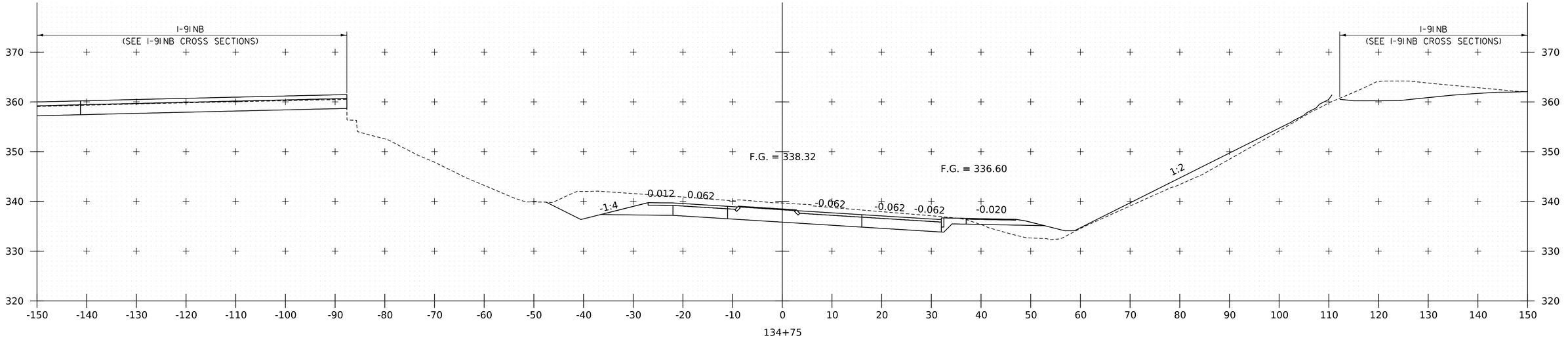


134+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 18	SHEET 337 OF 395

HNTB



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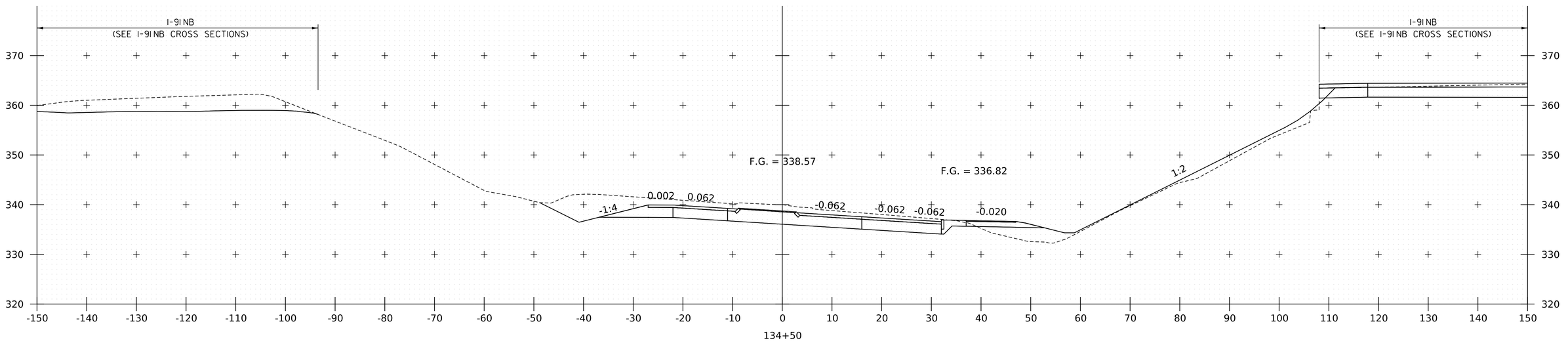
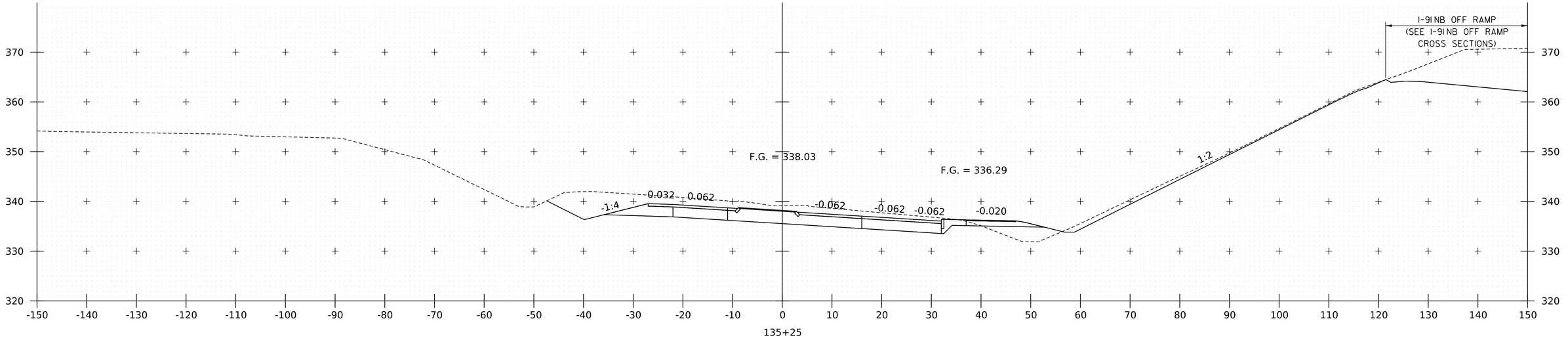
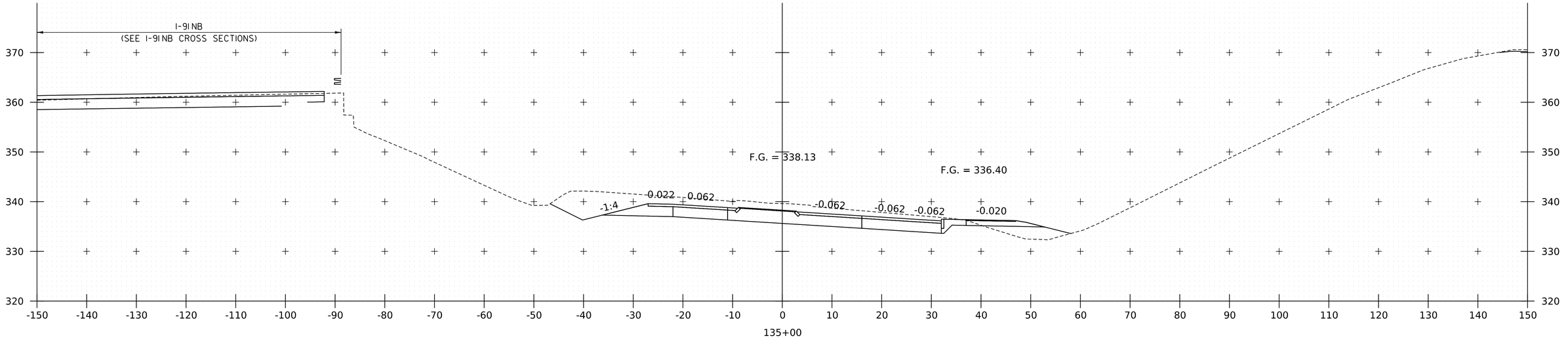


134+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 19	SHEET 338 OF 395

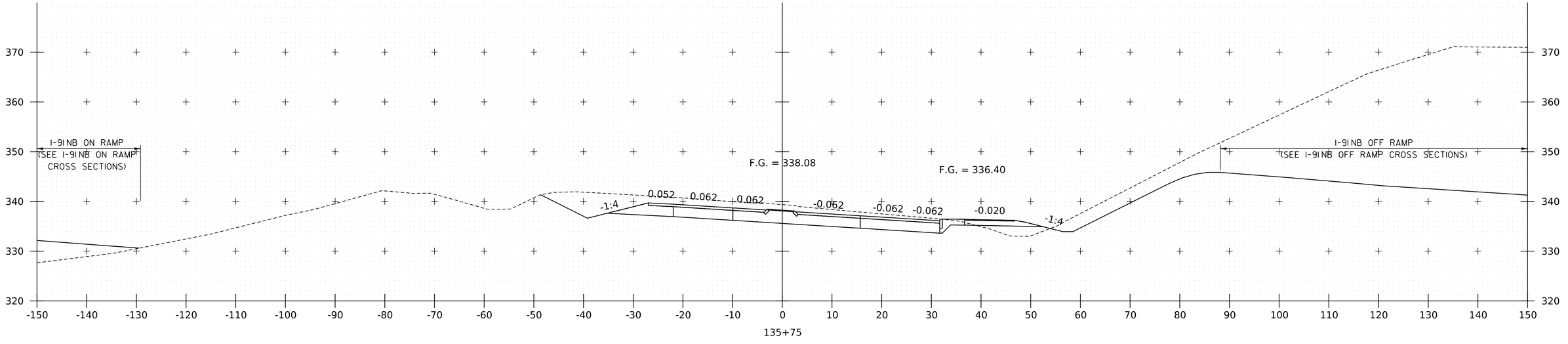
HNTB

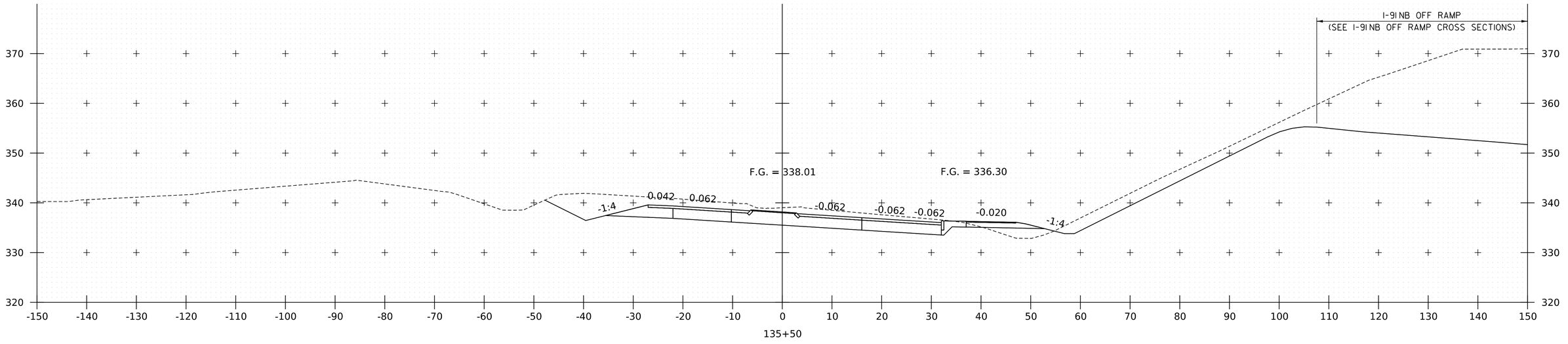




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 20	SHEET 339 OF 395

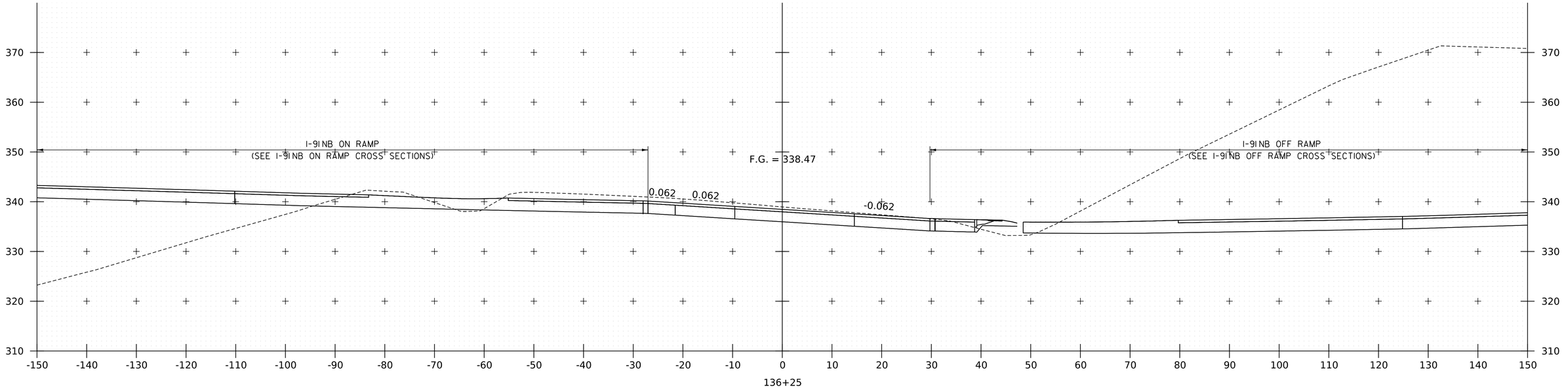
HNTB

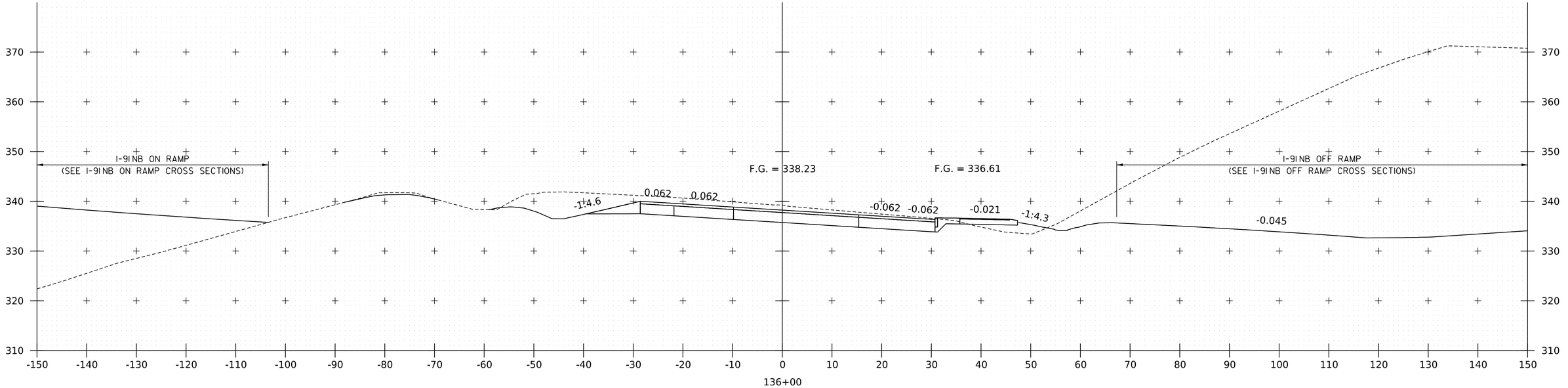




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 21	SHEET 340 OF 395

HNTB





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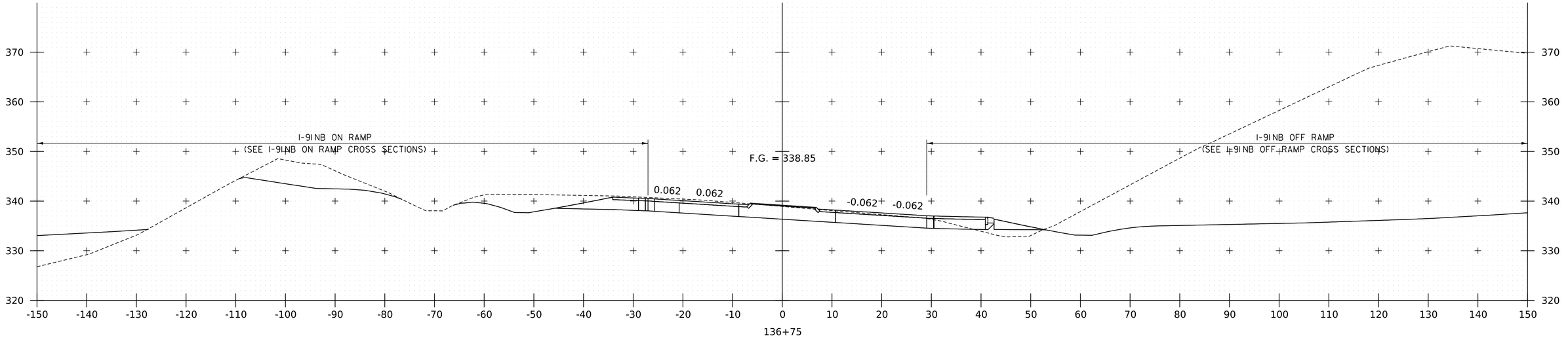
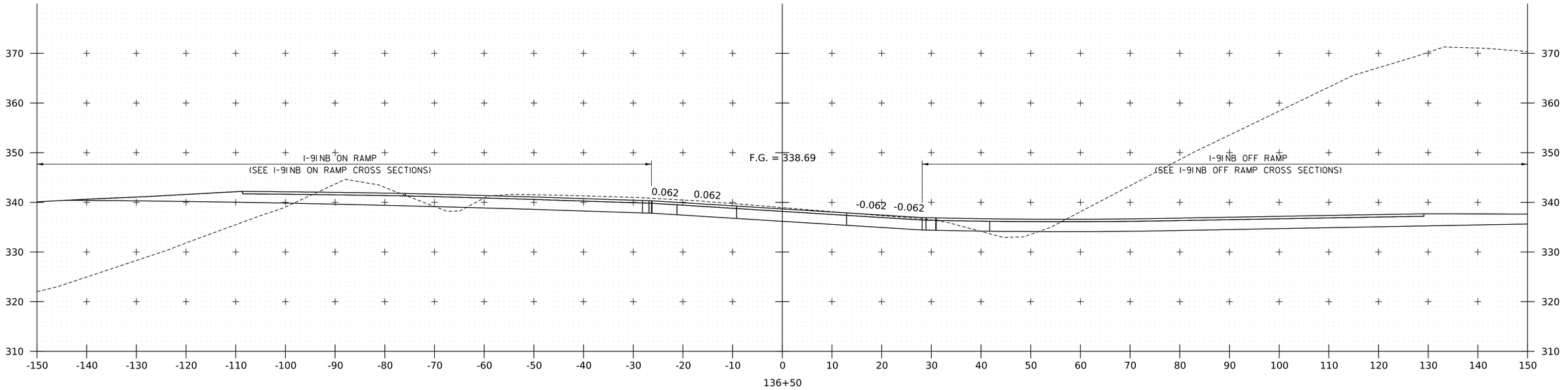
PROJECT NAME: SPRINGFIELD	
PROJECT NUMBER: IM 091-1(83)	
FILE NAME: z12a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 22	SHEET 341 OF 395

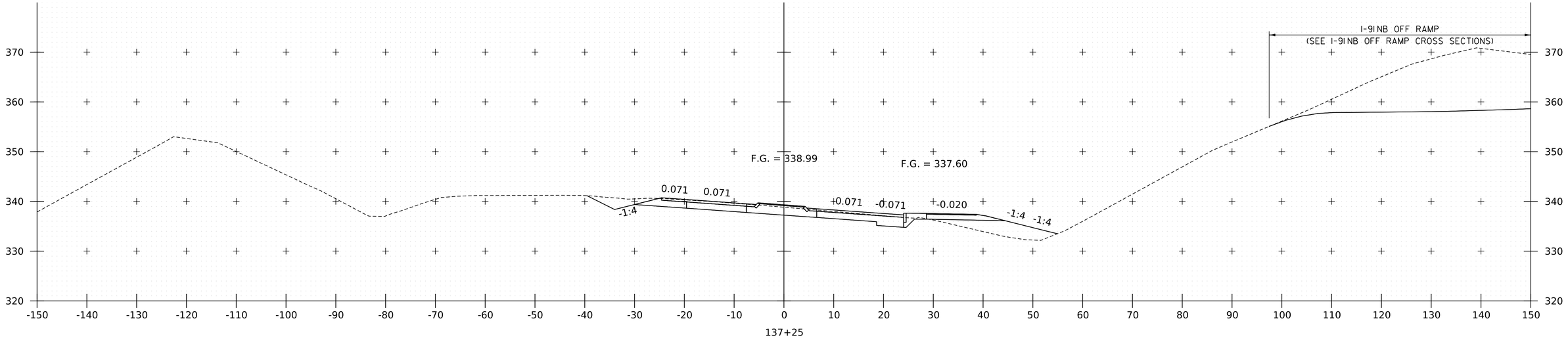


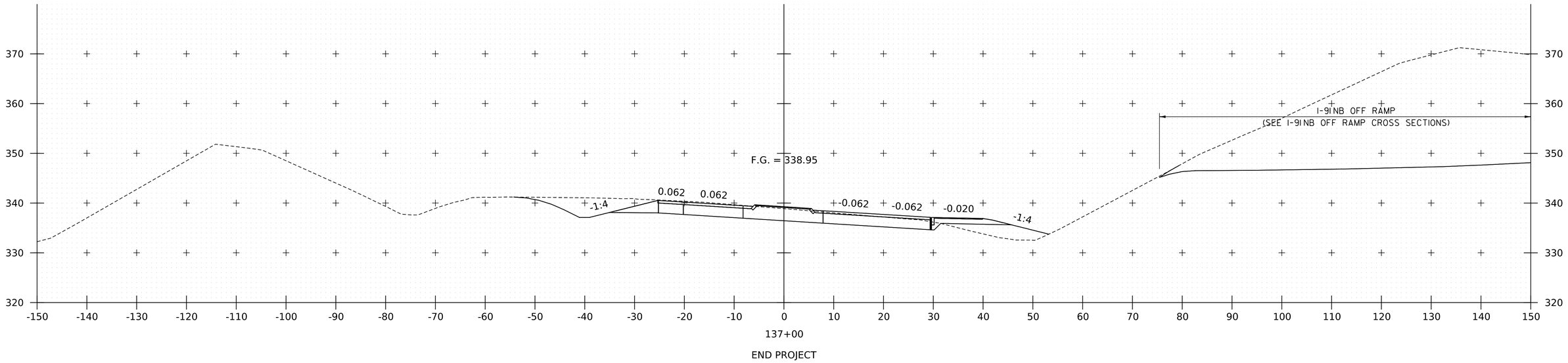


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 23	SHEET 342 OF 395

HNTB

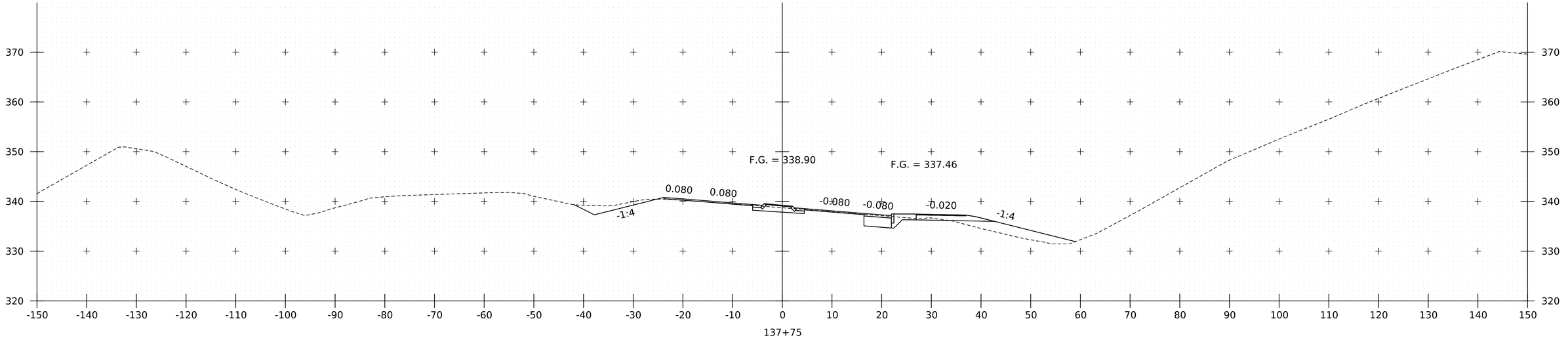




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 24	SHEET 343 OF 395

HNTB



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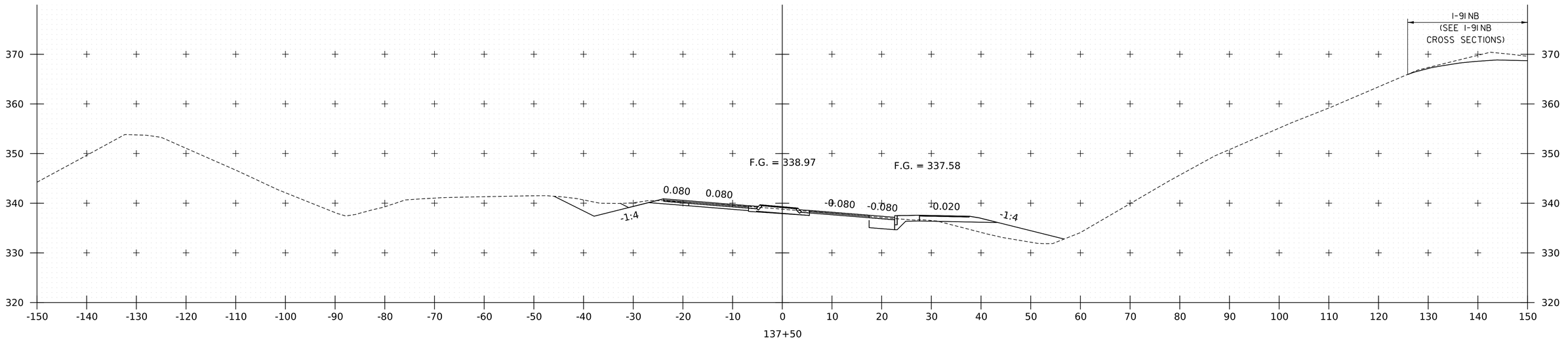
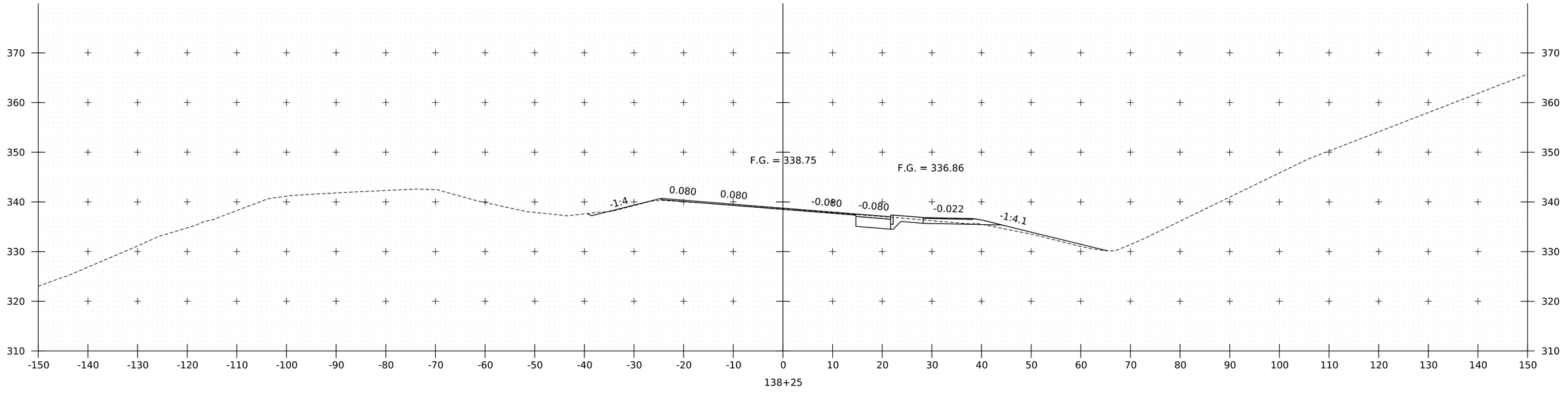
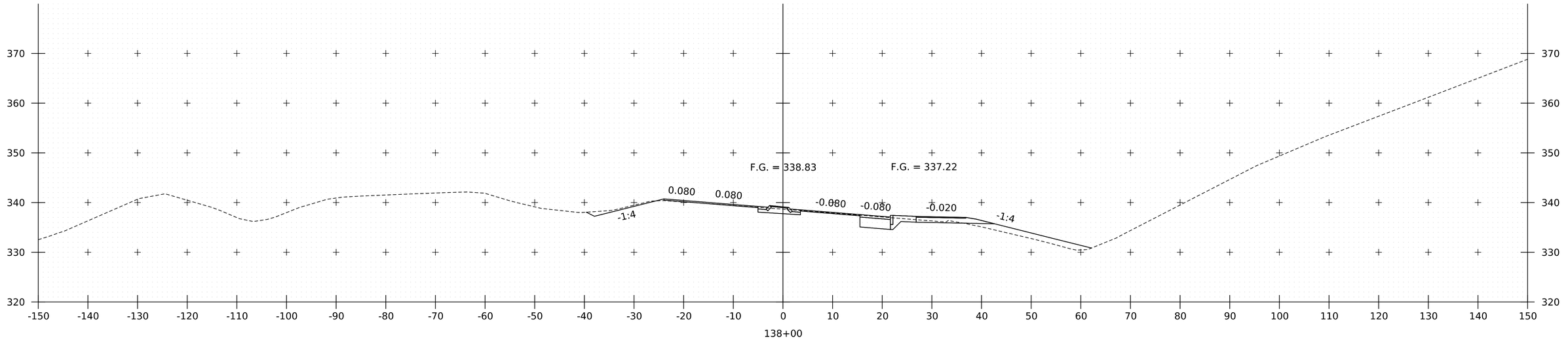


137+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 25	SHEET 344 OF 395

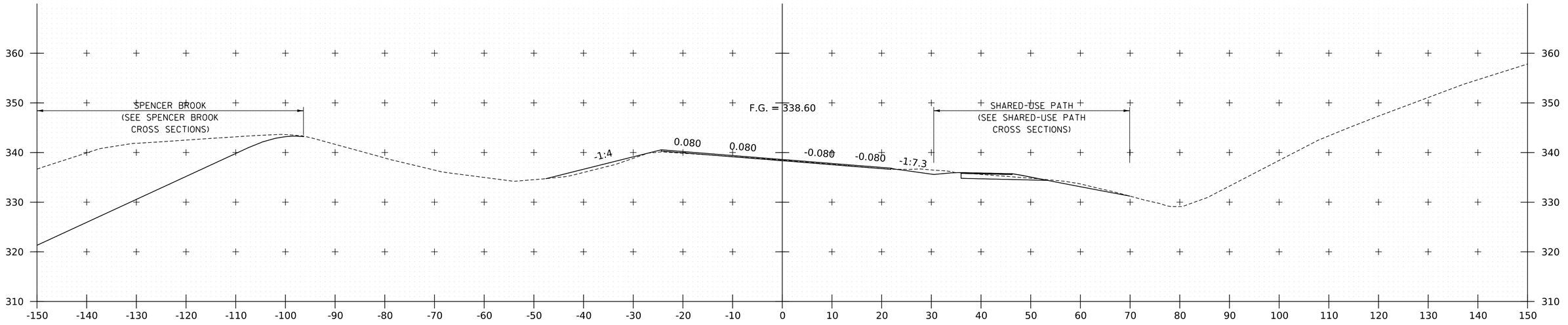
HNTB



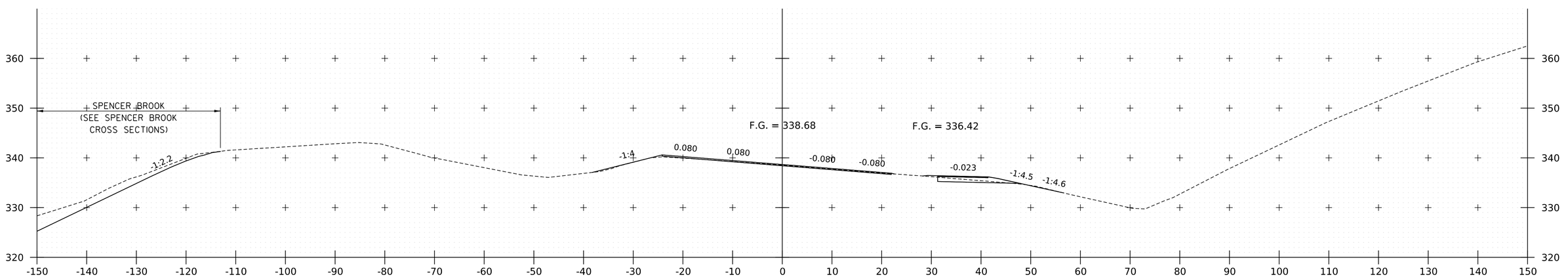


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 26	SHEET 345 OF 395

HNTB



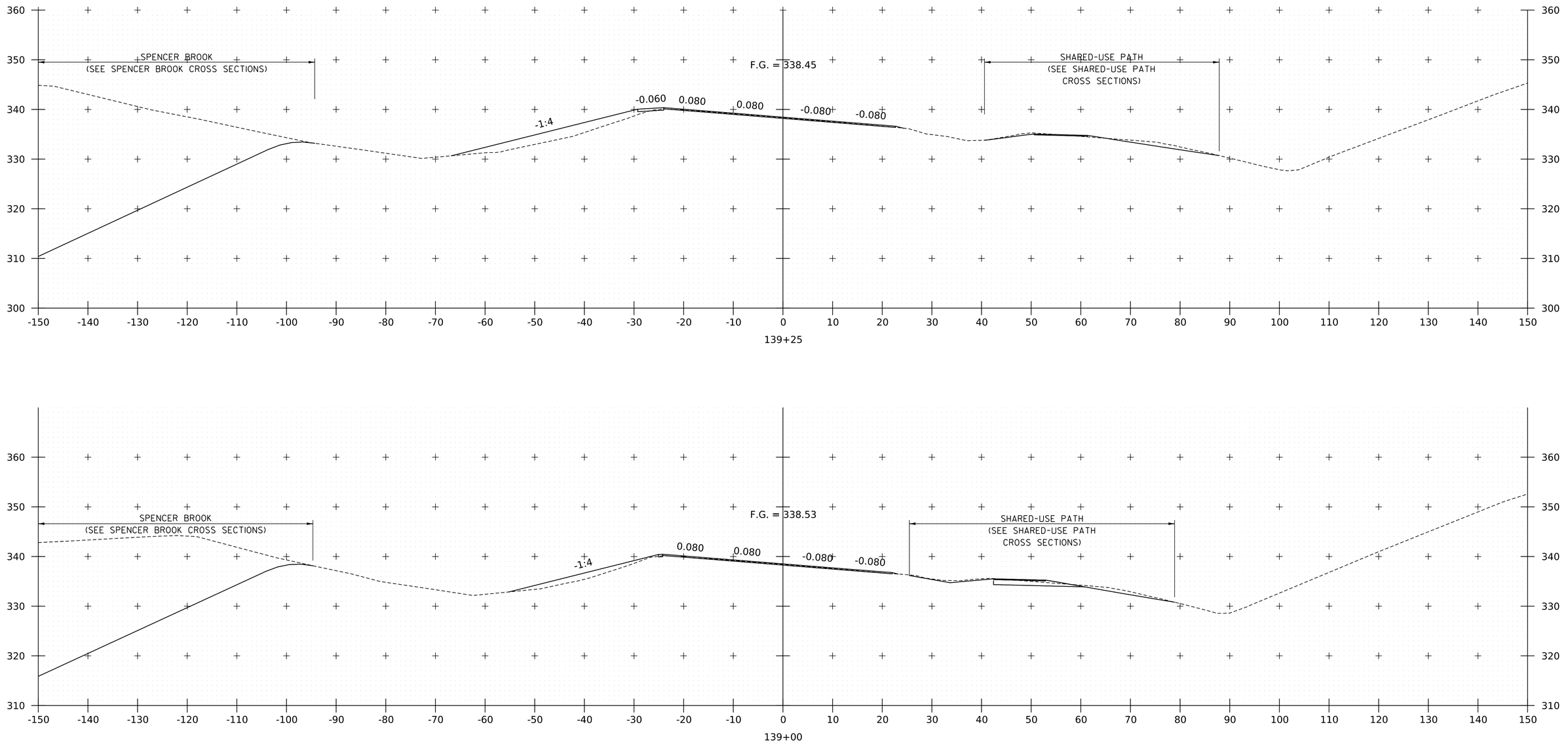
138+75



138+50

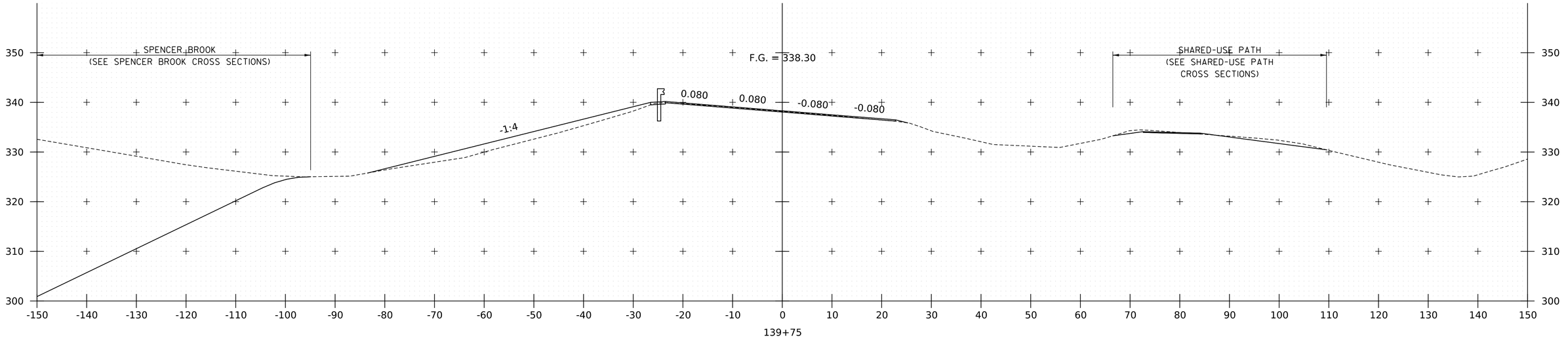
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 27	SHEET 346 OF 395

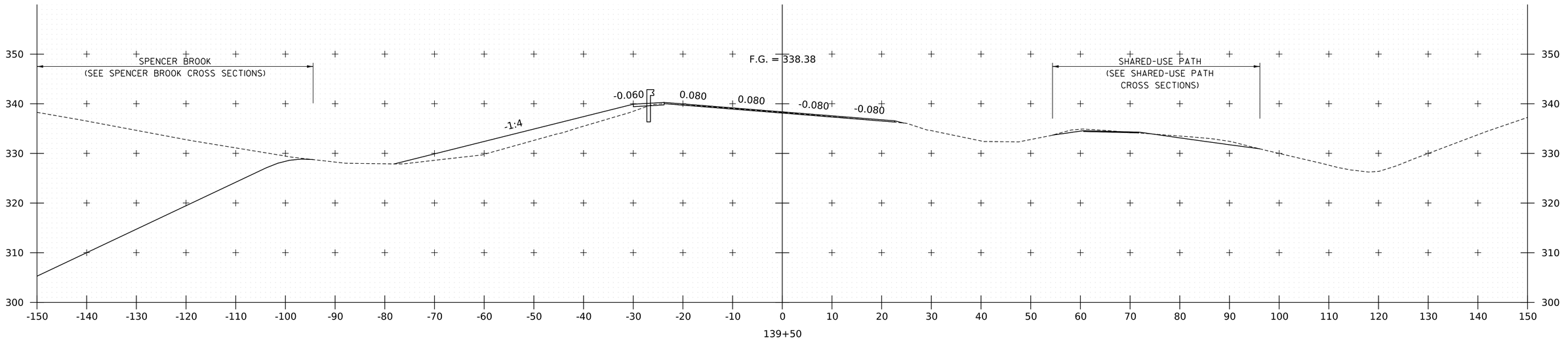
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 28	SHEET 347 OF 395

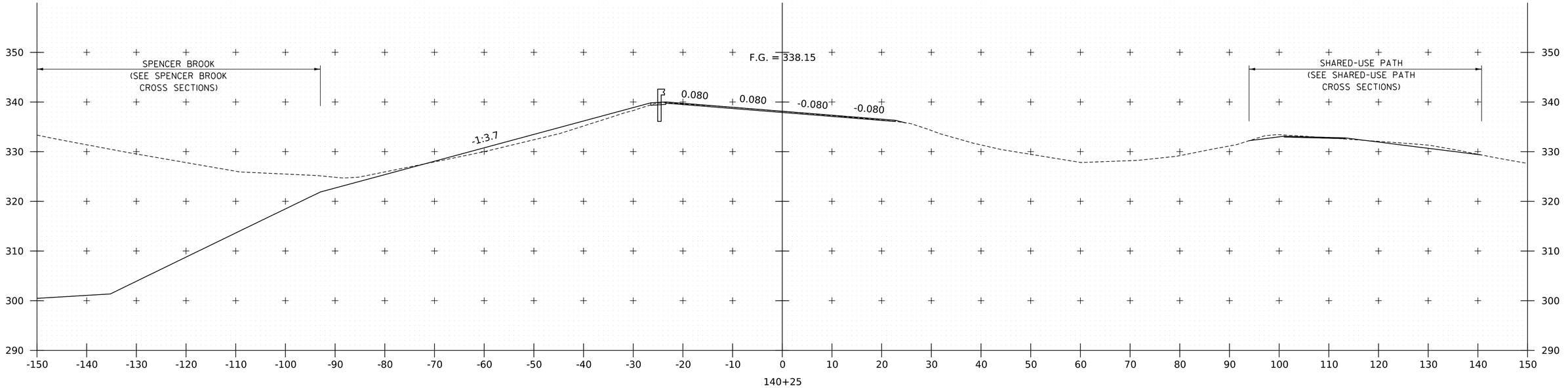
HNTB

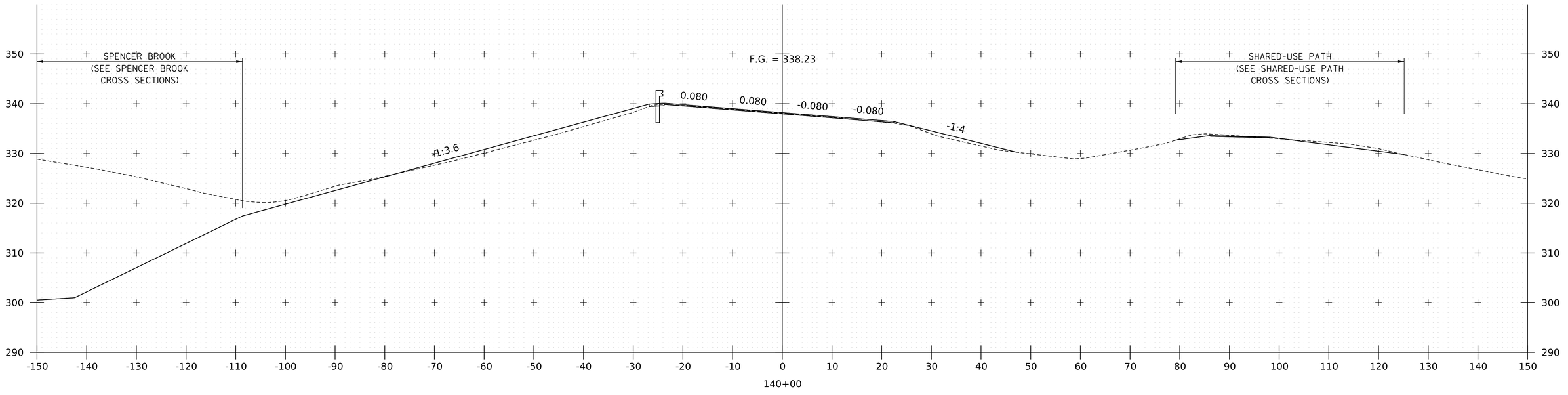




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 29	SHEET 348 OF 395

HNTB



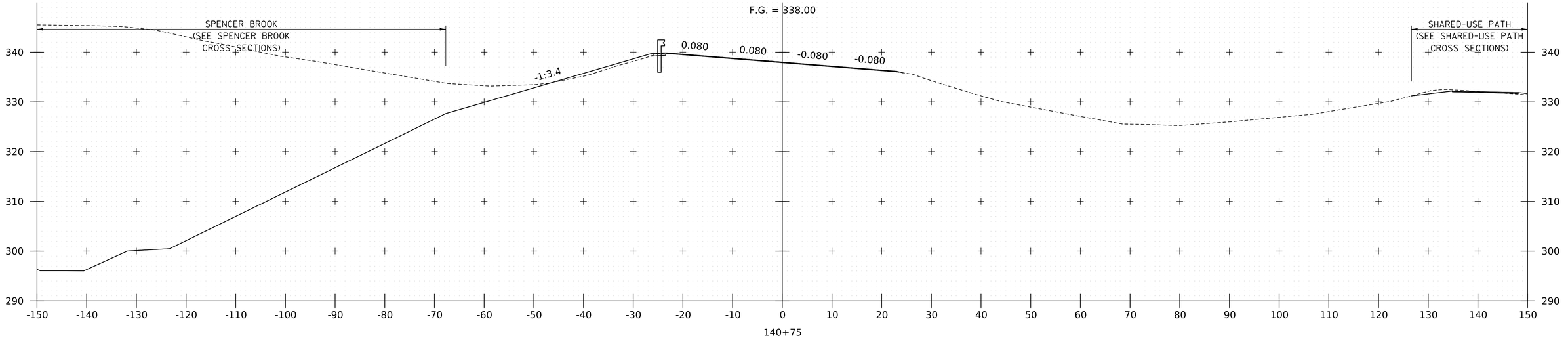


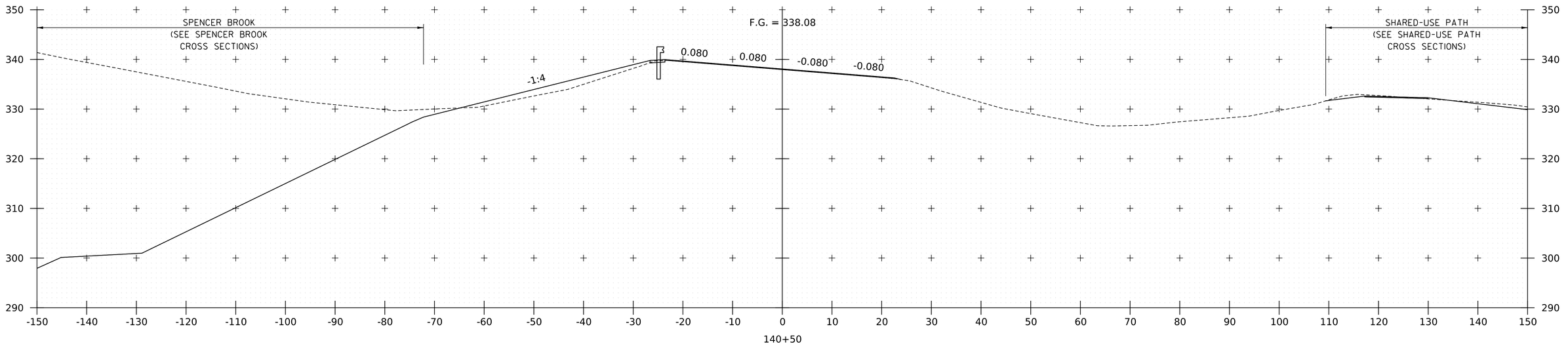
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_CharlestownRd.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
CHARLESTOWN RD CROSS SECTIONS 30

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 349 OF 395

HNTB



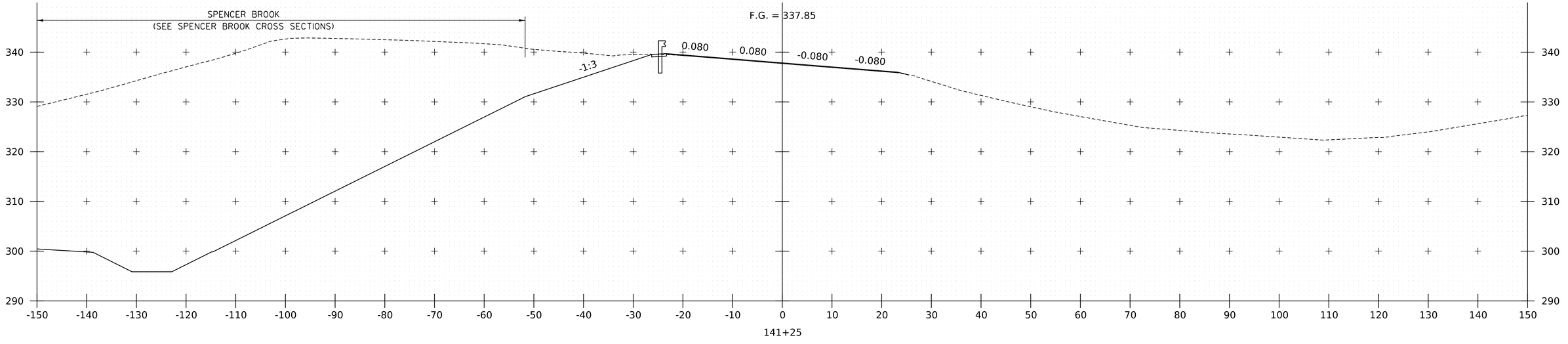


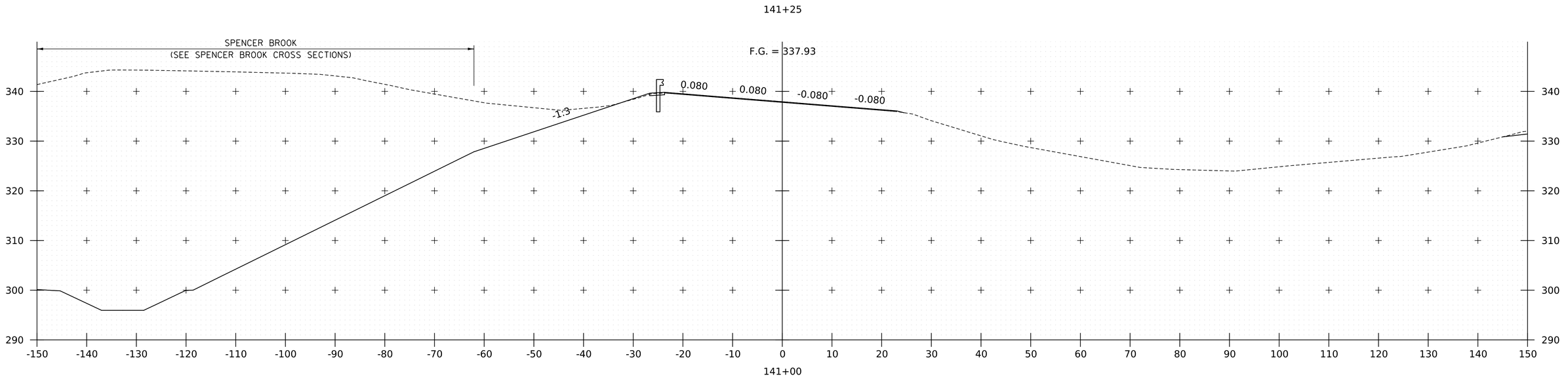
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_CharlestownRd.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
CHARLESTOWN RD CROSS SECTIONS 31

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 350 OF 395

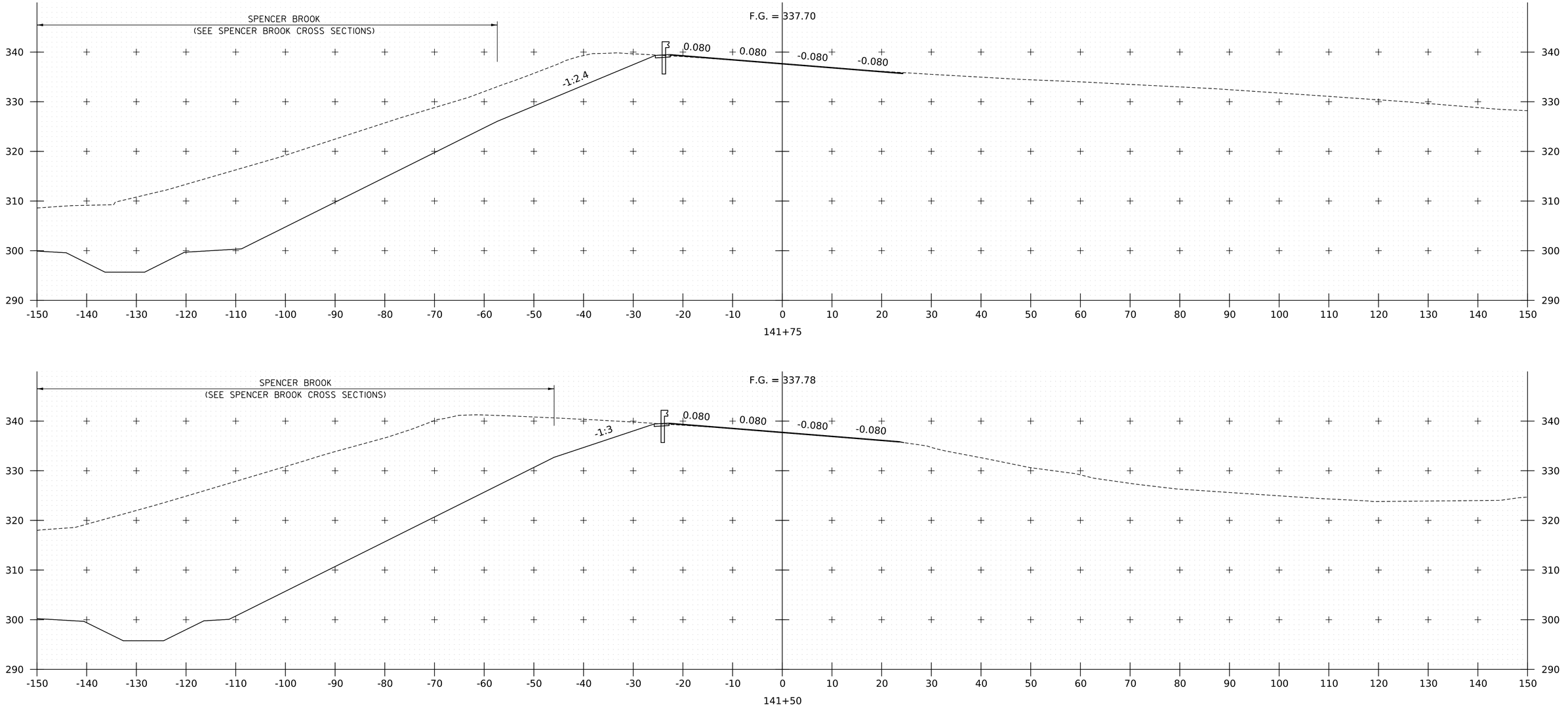
HNTB





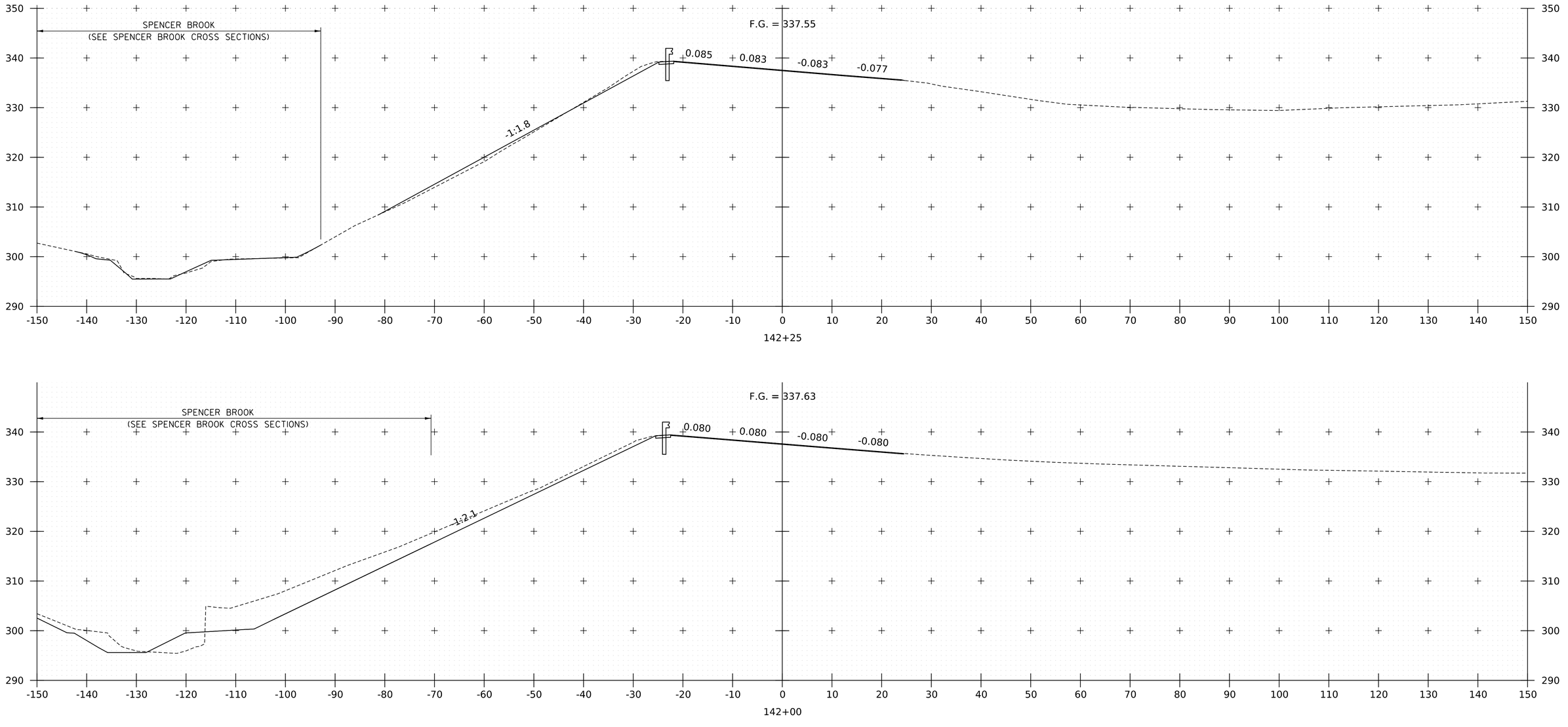
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 32	SHEET 351 OF 395

HNTB



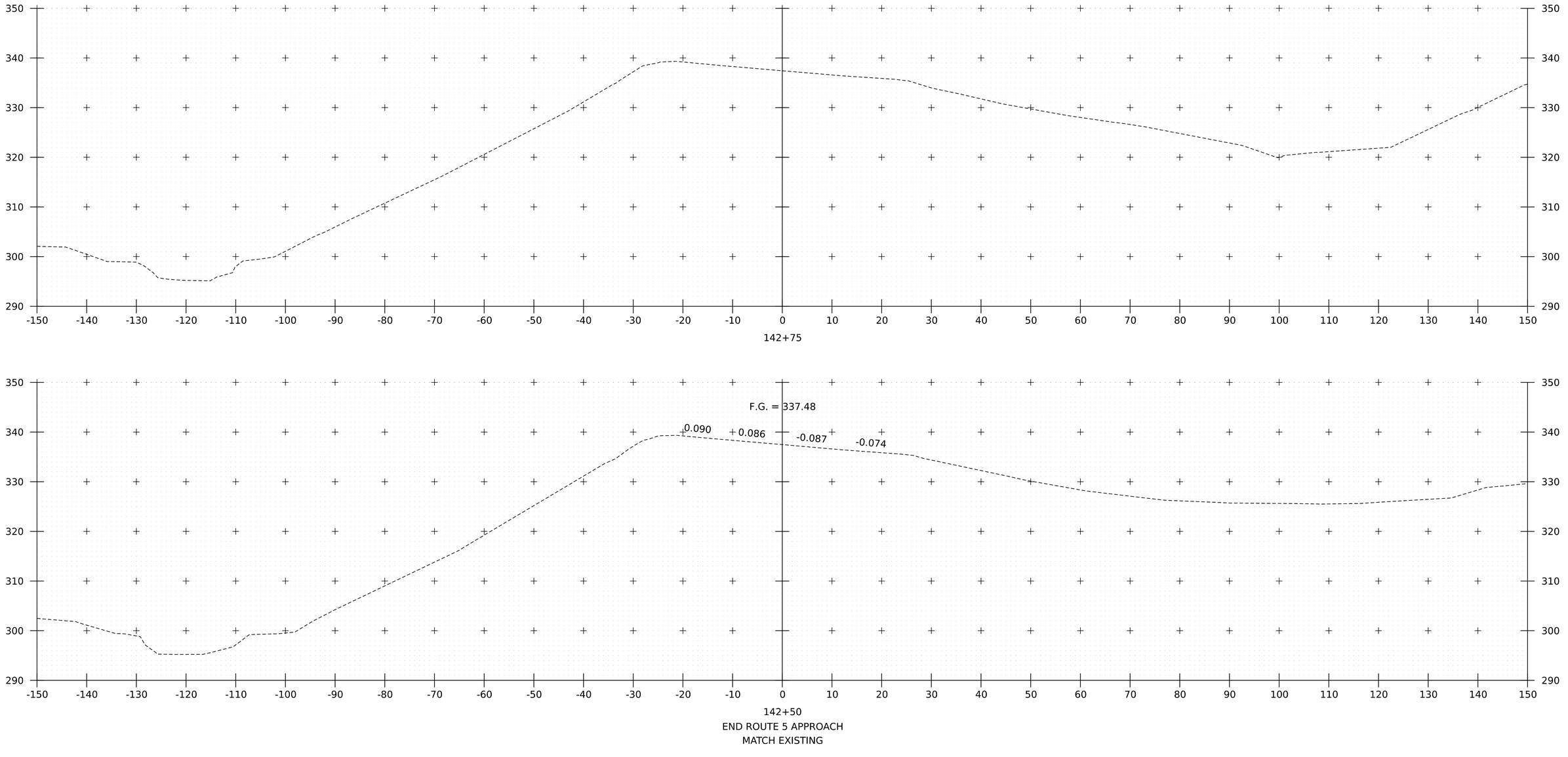
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 33	SHEET 352 OF 395

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_CharlestownRd.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD CROSS SECTIONS 34	SHEET 353 OF 395

HNTB

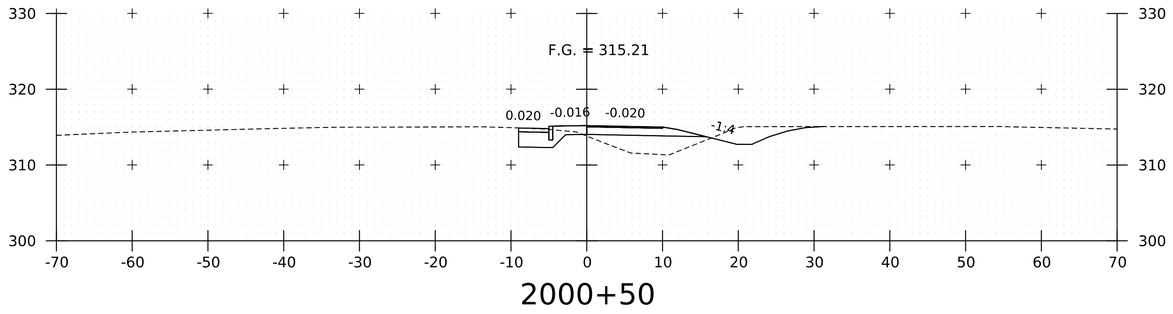


PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_CharlestownRd.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
CHARLESTOWN RD CROSS SECTIONS 35

PLOT DATE: 28-SEP-2022
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 354 OF 395

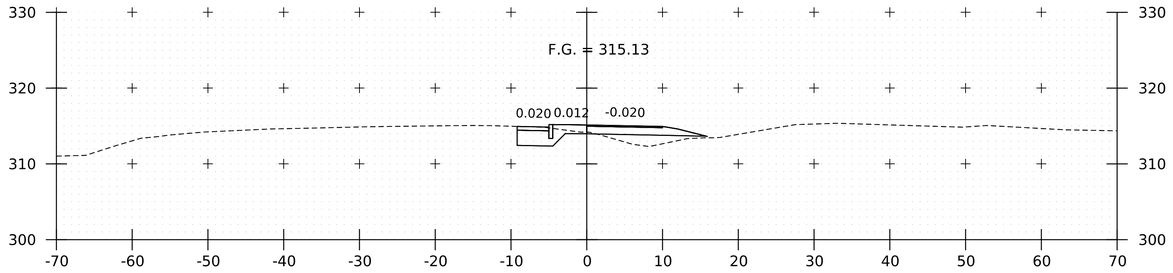
HNTB



2000+50

SEE CHARLESTOWN RD. CROSS SECTIONS

FOR SHARED USE PATH DESIGN BETWEEN STA. 2001+25 AND 2019+50



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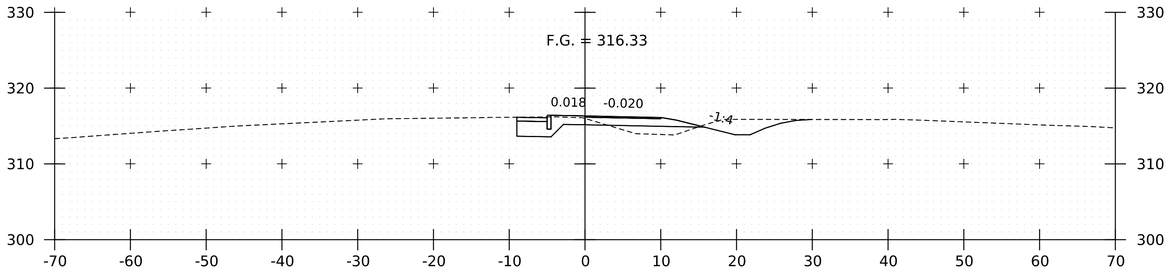
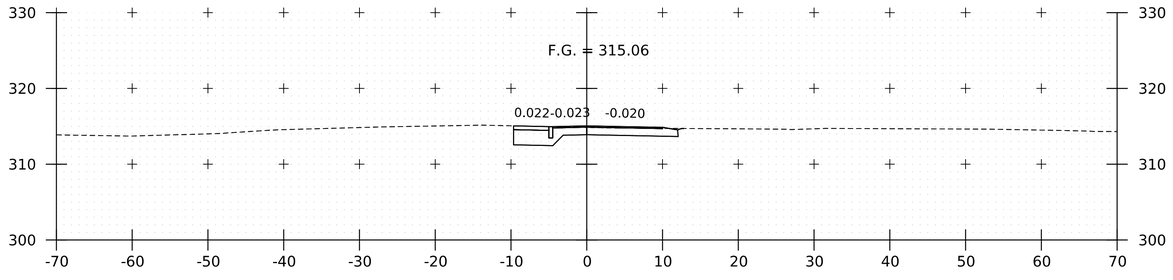
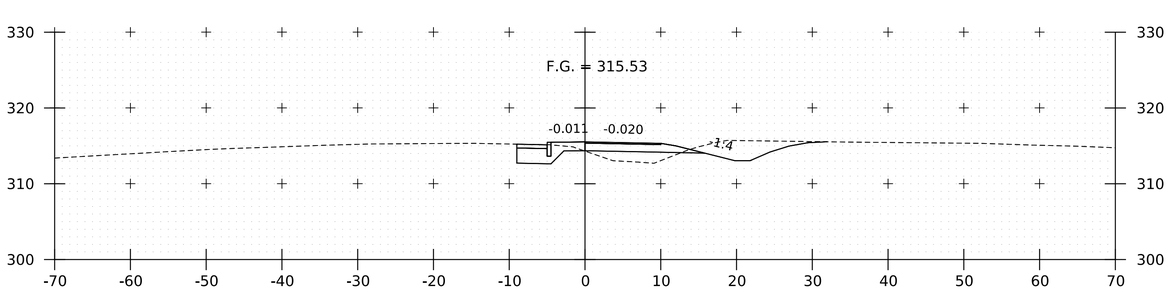


2001+00



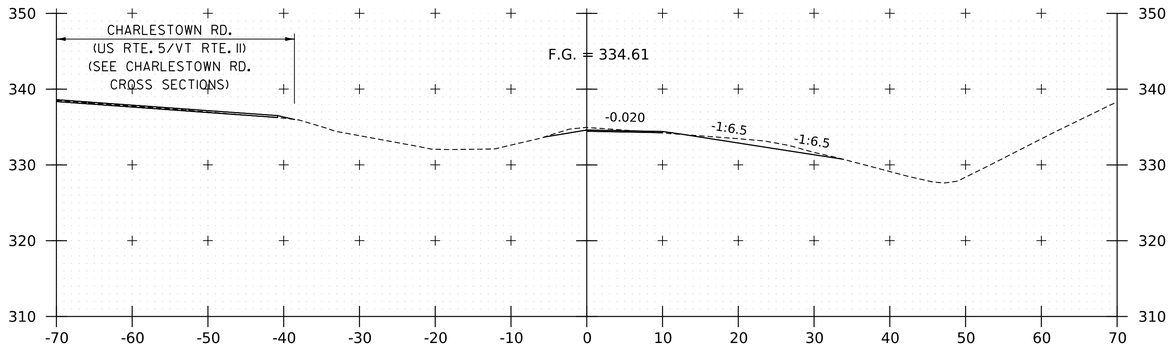
2000+00



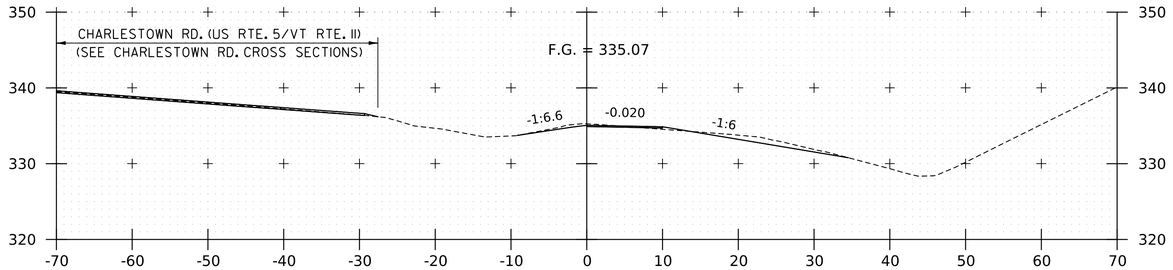
2000+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Rte5_Path	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
SHARED USE PATH CROSS SECTIONS I	SHEET 355 OF 395

HNTB



2020+50



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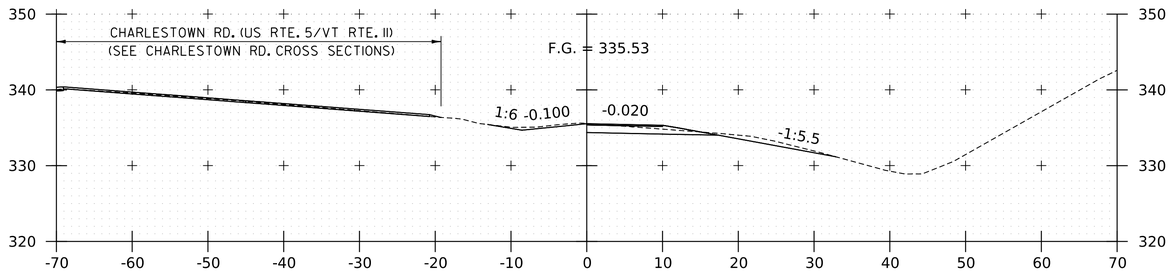

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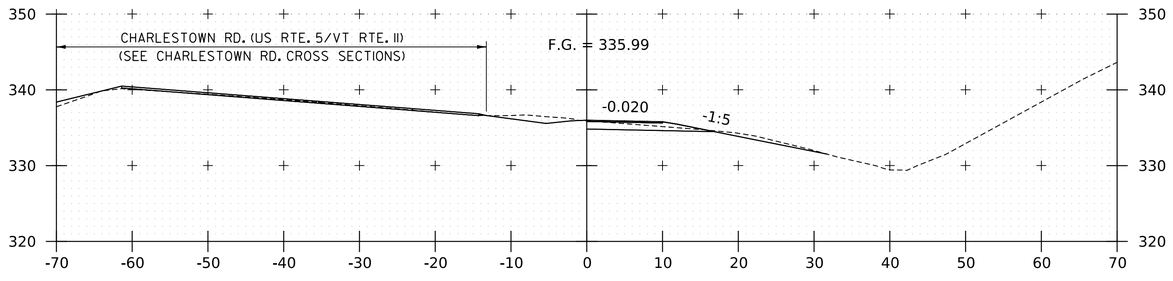

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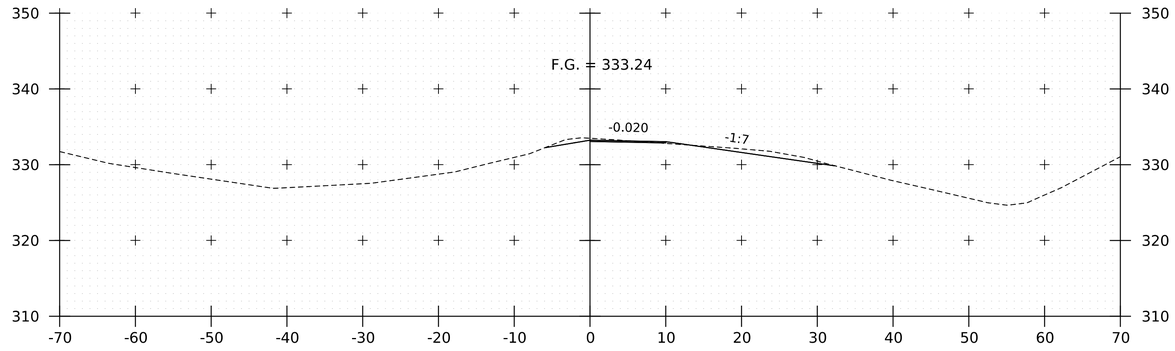

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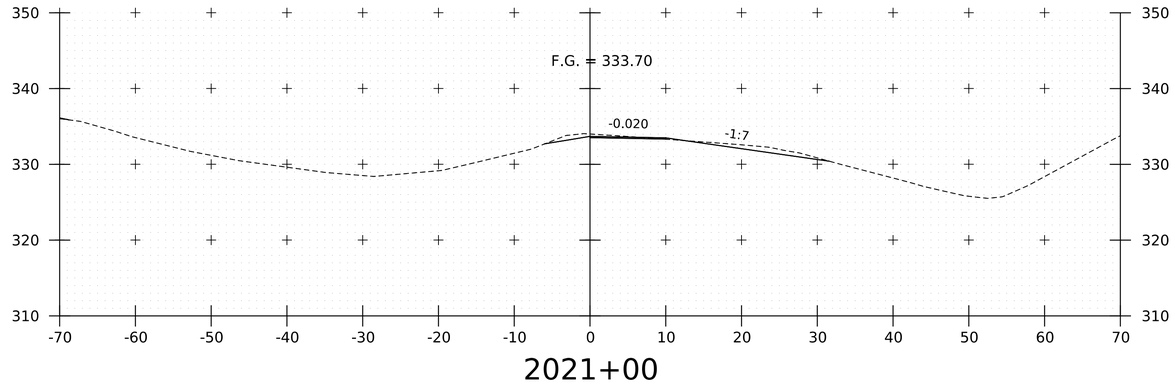

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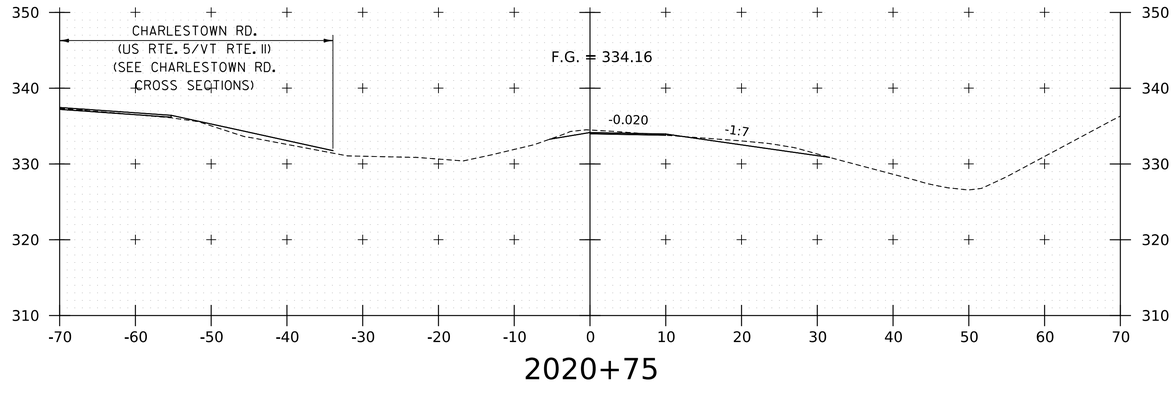
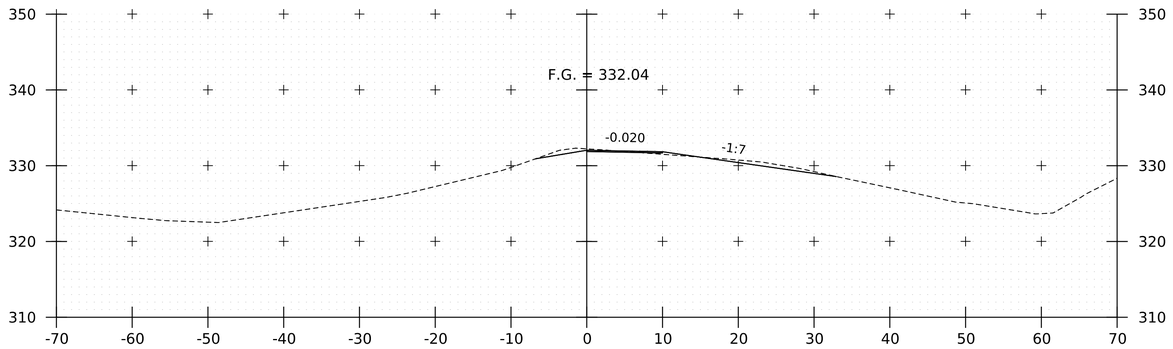


2020+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Rte5_Path	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
SHARED USE PATH CROSS SECTIONS 2	SHEET 356 OF 395

HNTB



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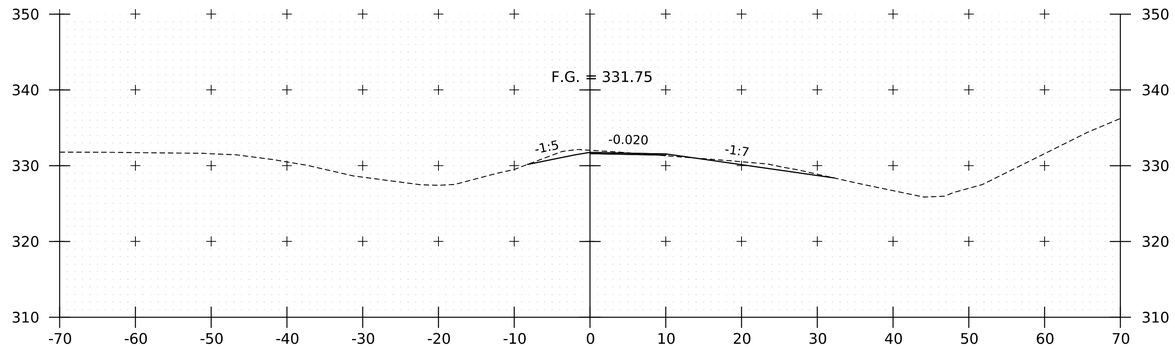

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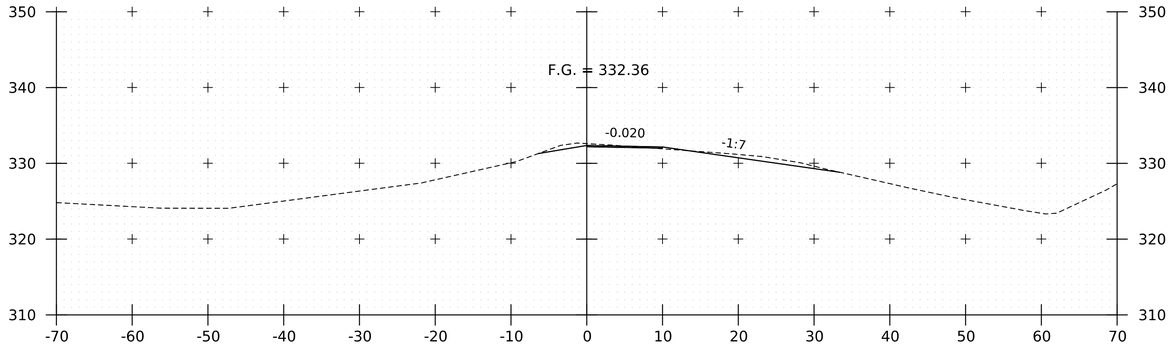

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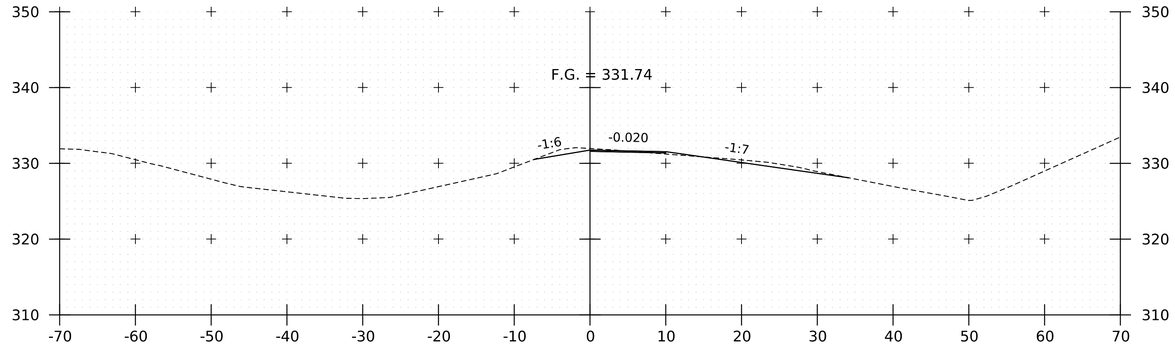

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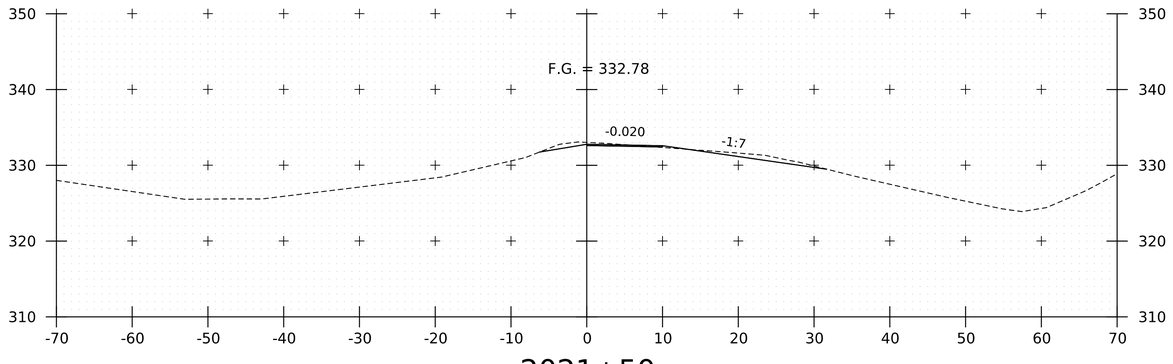

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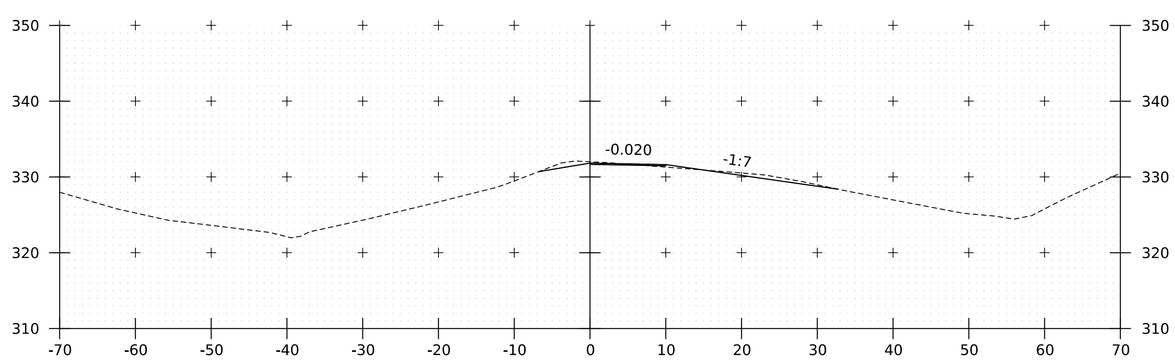


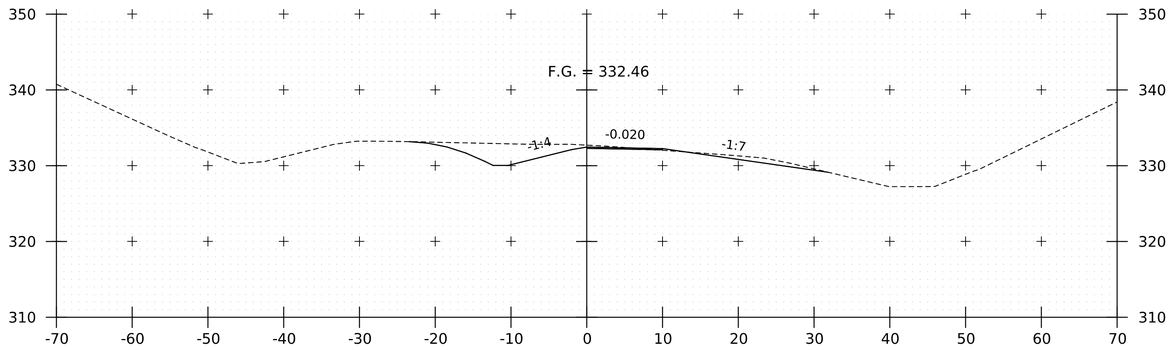
2022+25

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: zl2a574xs_Rte5_Path
PROJECT LEADER: J. OLUND
DESIGNED BY: E. RAYMOND
SHARED USE PATH CROSS SECTIONS 3

PLOT DATE: 28-SEP-2022
DRAWN BY: E. RAYMOND
CHECKED BY: C. HELMICK
SHEET 357 OF 395

HNTB



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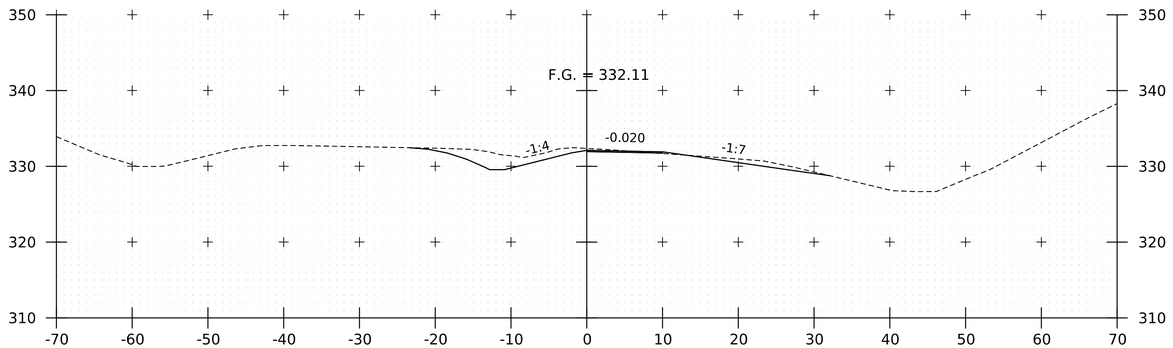

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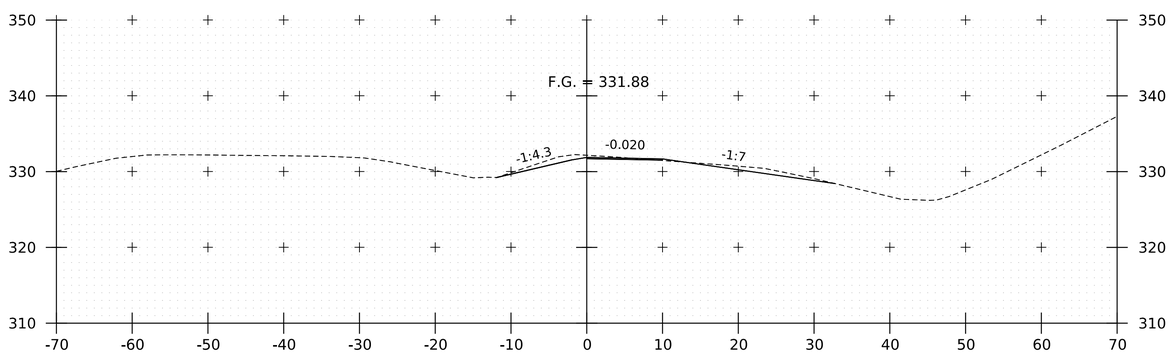

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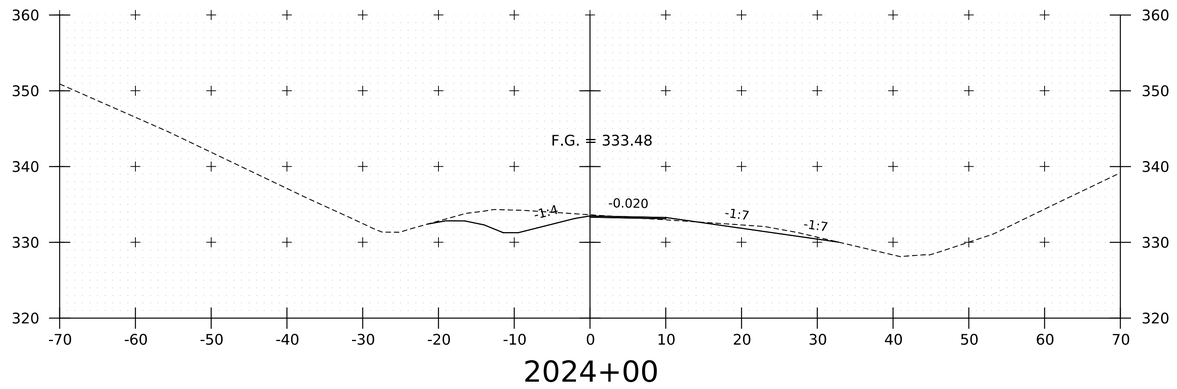

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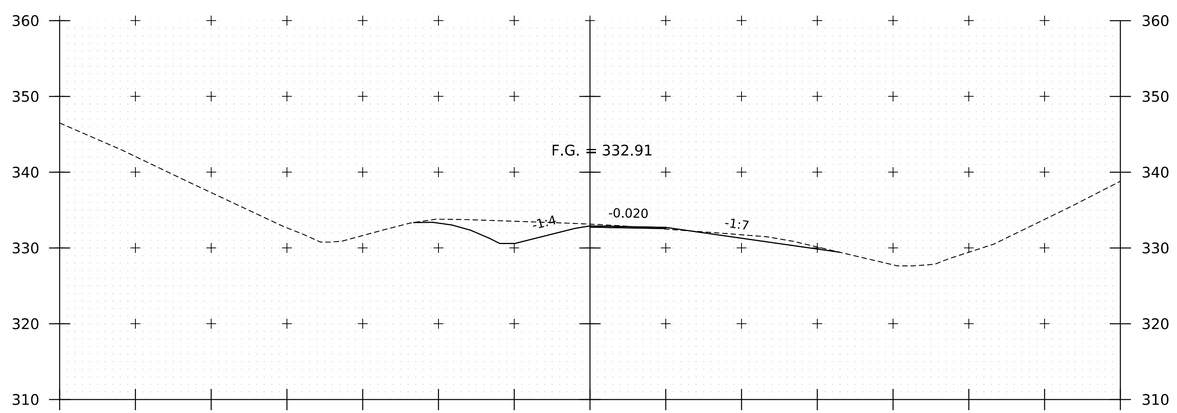
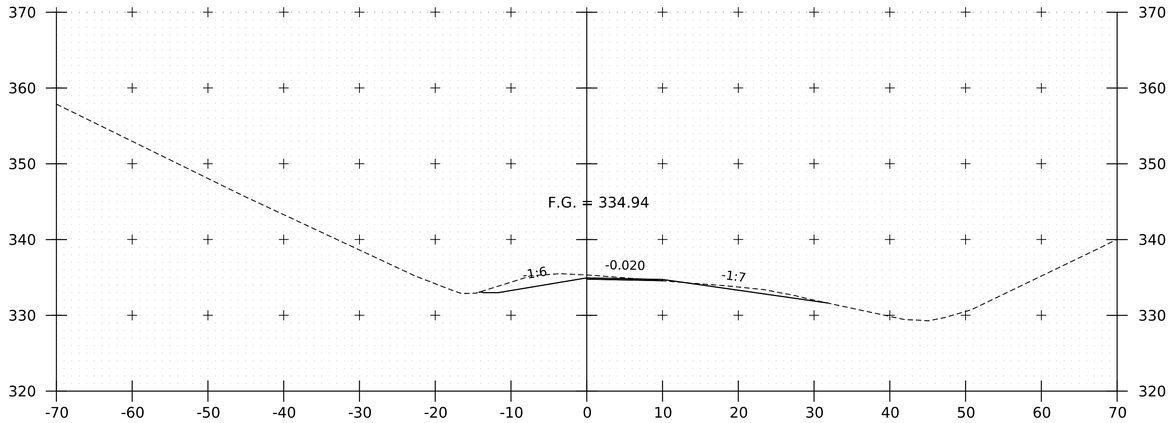


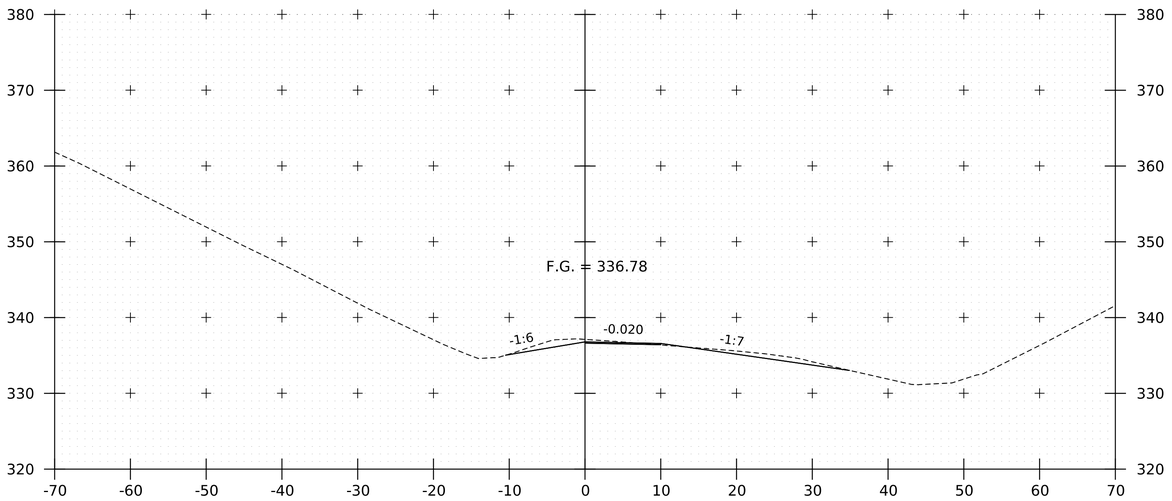
2023+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Rte5_Path	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
SHARED USE PATH CROSS SECTIONS 4	SHEET 358 OF 395

HNTB



2024+50



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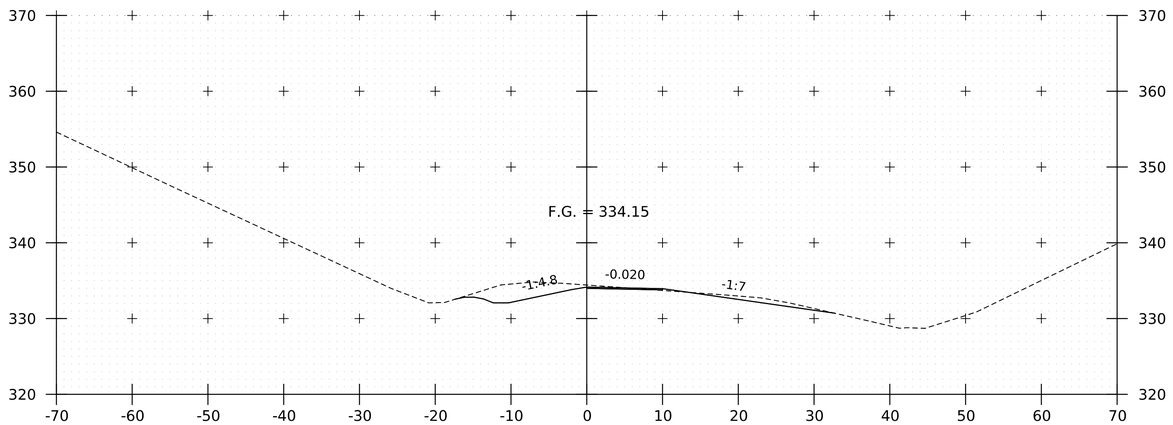

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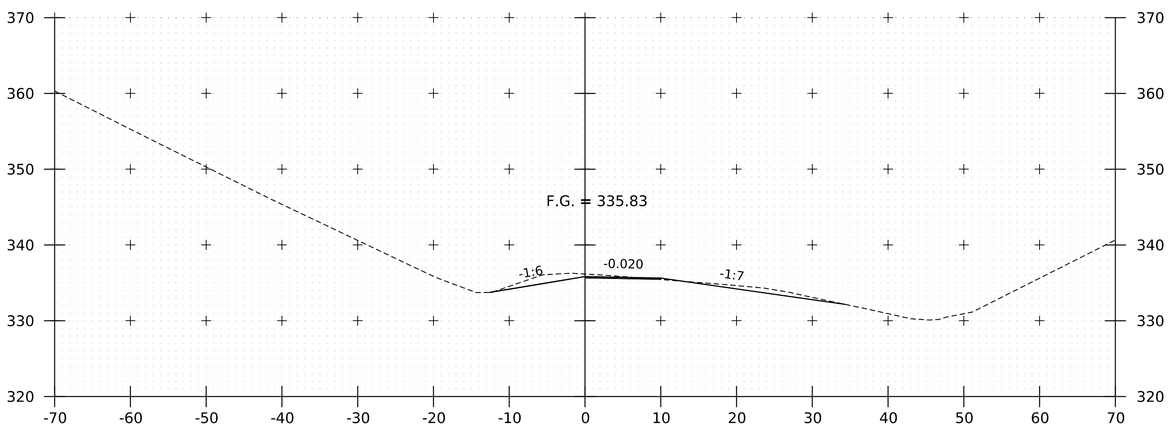
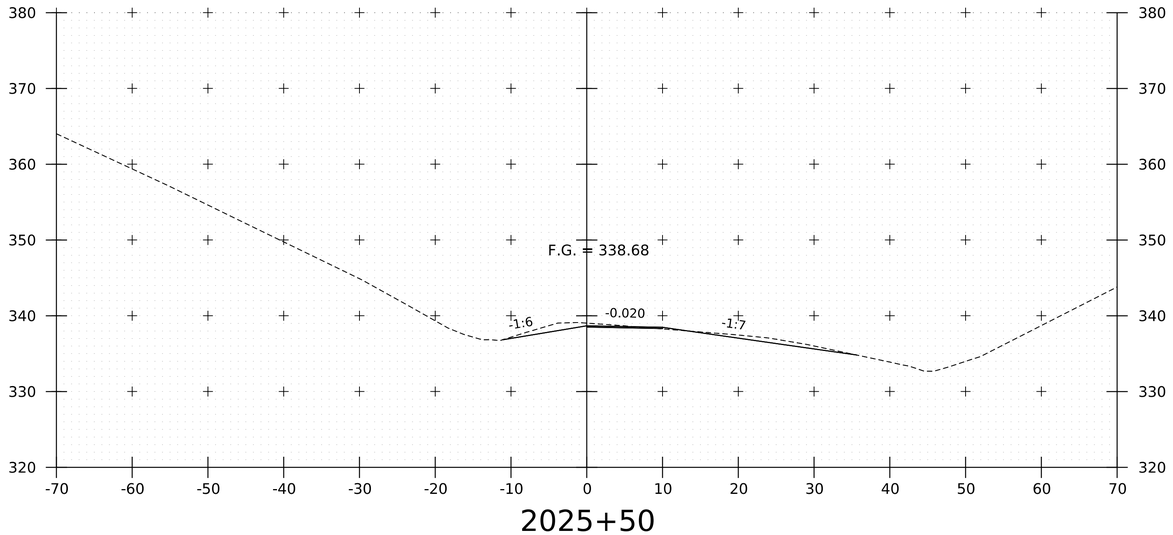


2024+75

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_Rte5_Path
PROJECT LEADER: J. OLUND
DESIGNED BY: E. RAYMOND
SHARED USE PATH CROSS SECTIONS 5

PLOT DATE: 28-SEP-2022
DRAWN BY: E. RAYMOND
CHECKED BY: C. HELMICK
SHEET 359 OF 395



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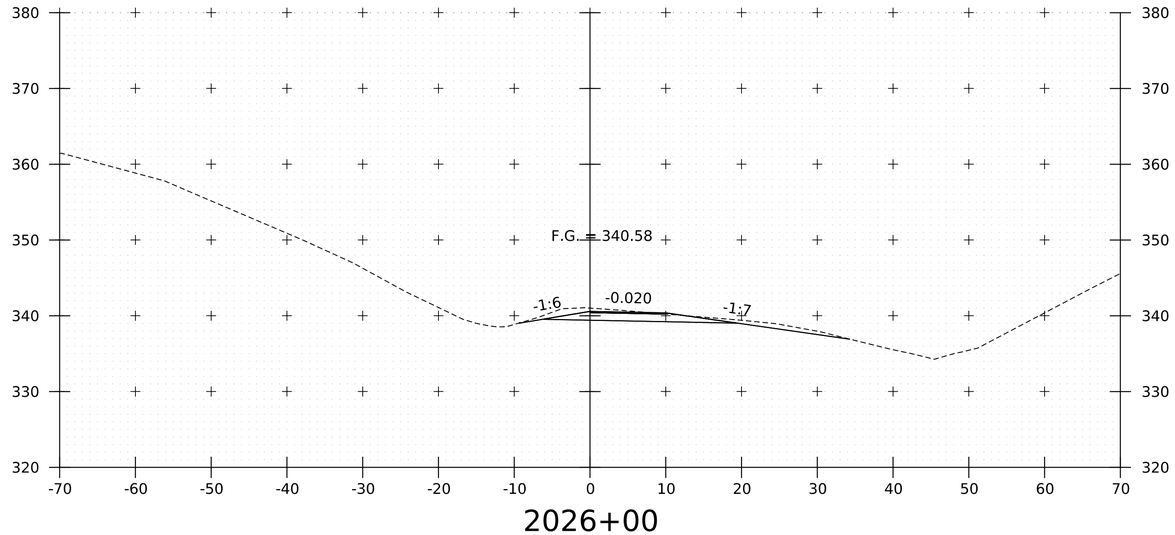

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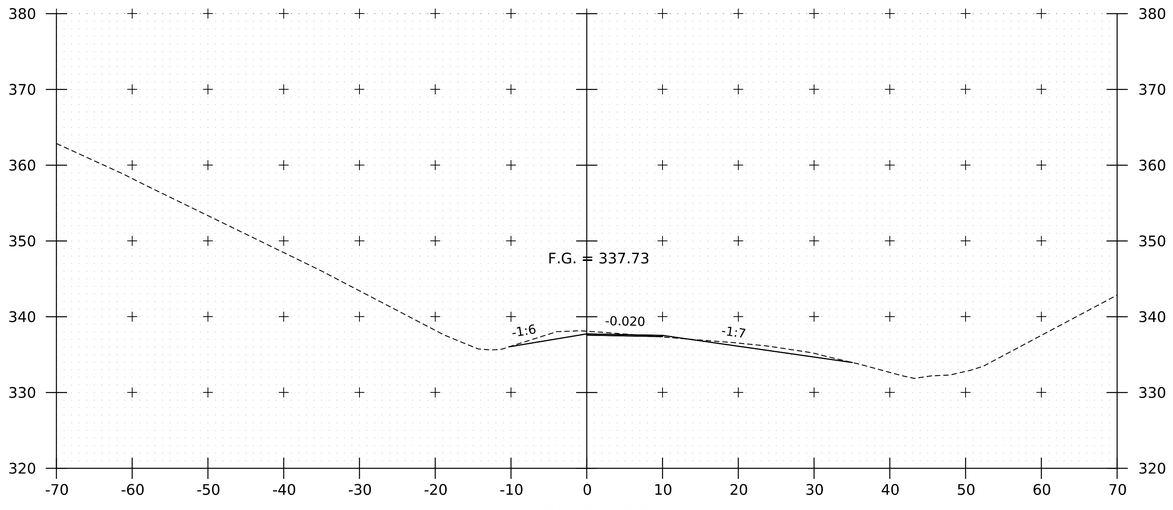

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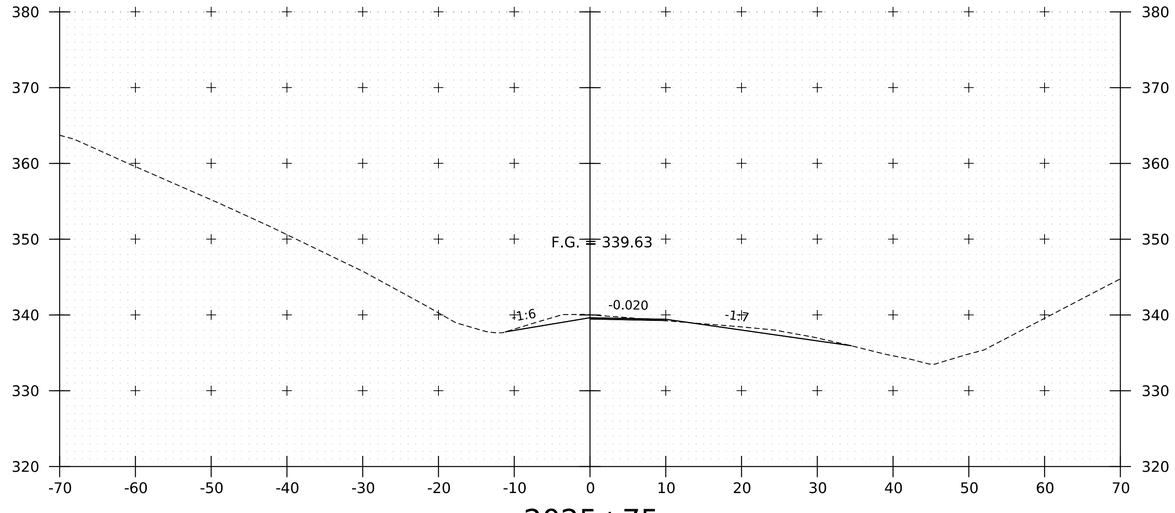
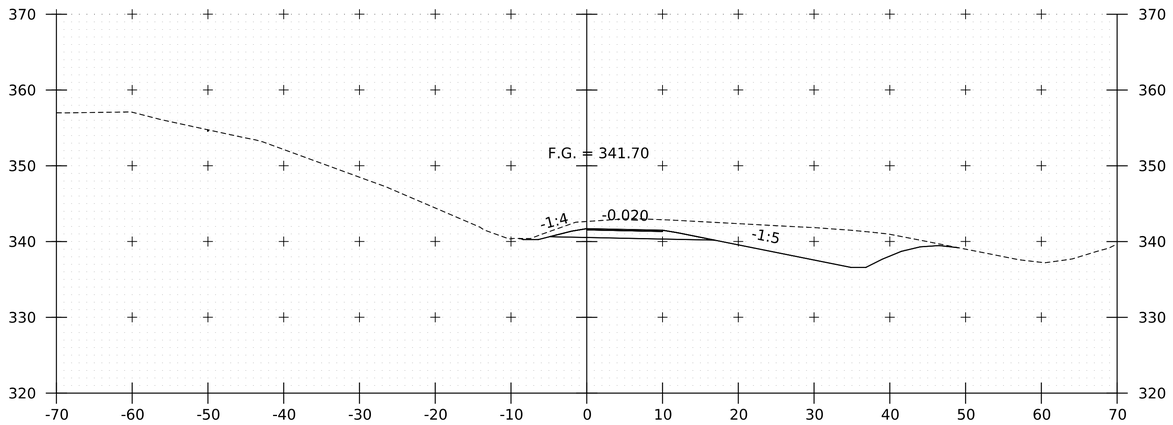


2025+75

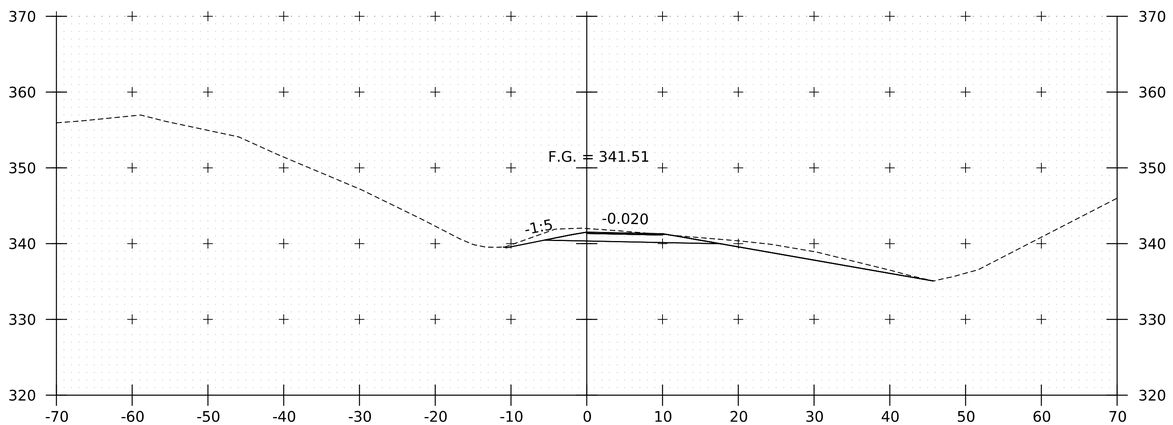
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_Rte5_Path	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
SHARED USE PATH CROSS SECTIONS 6	SHEET 360 OF 395

HNTB



2026+50



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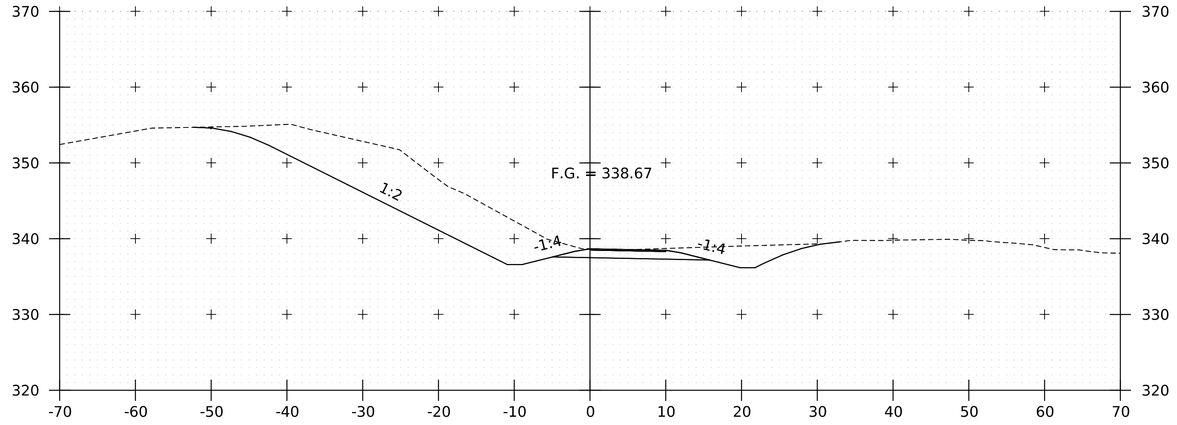

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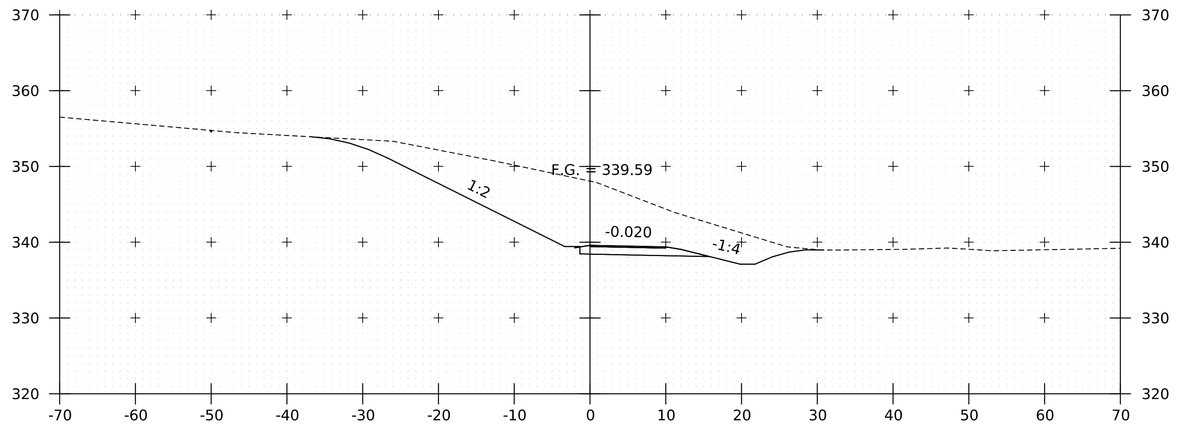
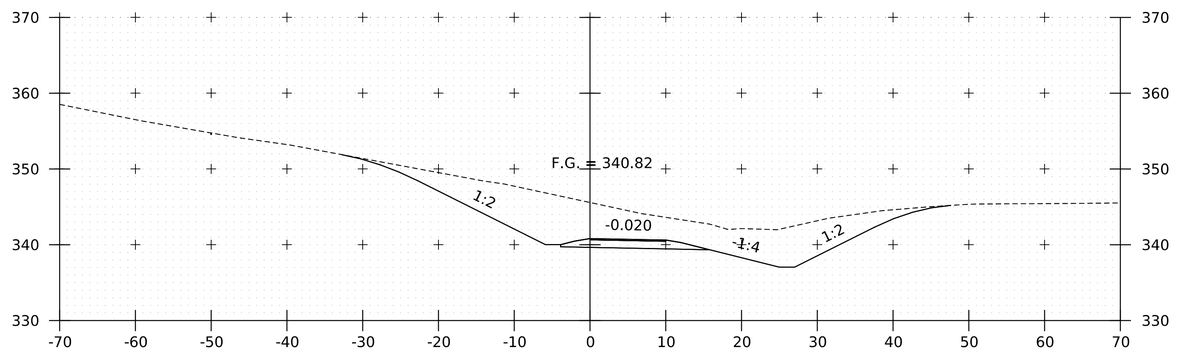


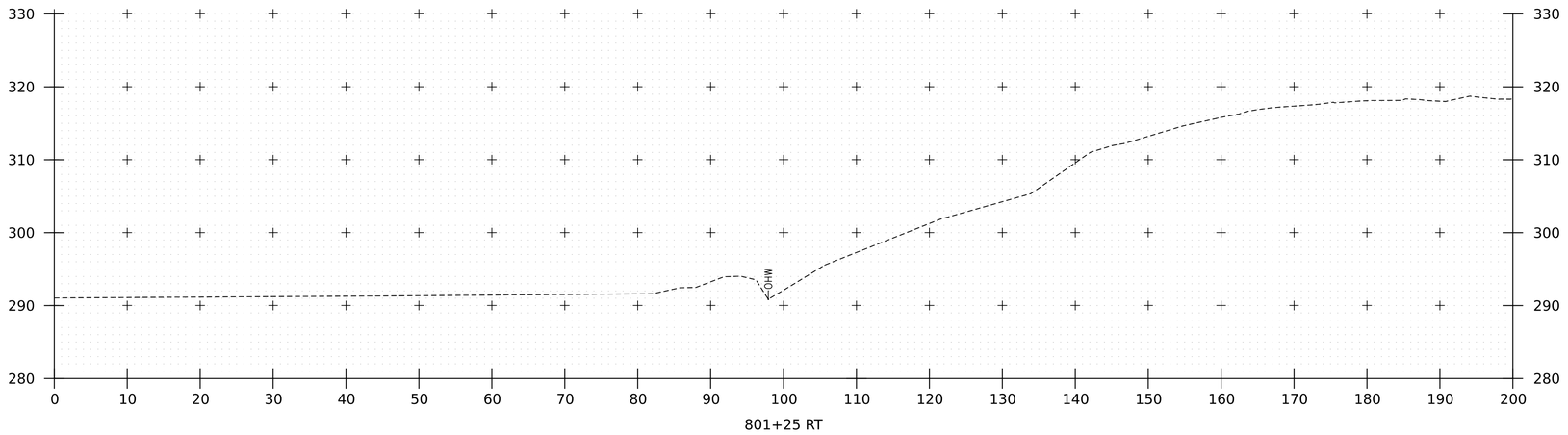
2027+00



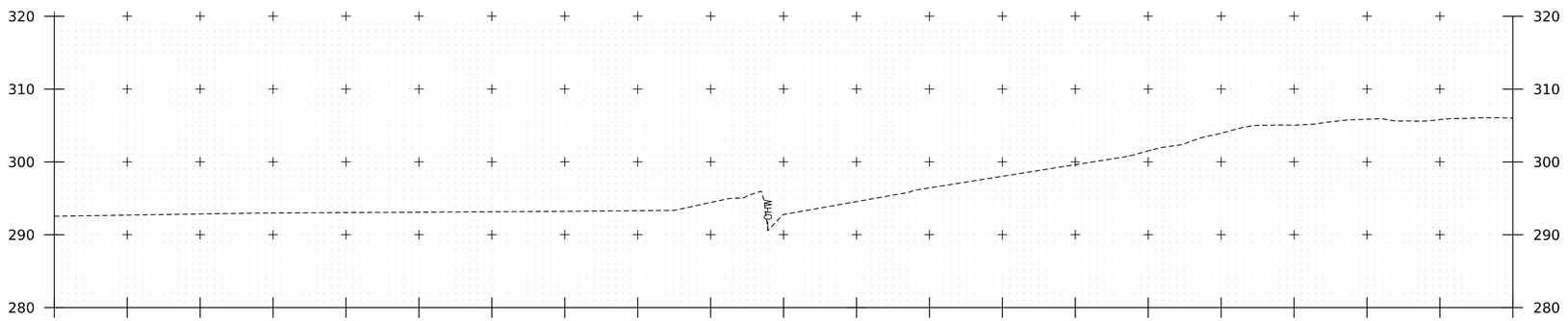
2026+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Rte5_Path	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
SHARED USE PATH CROSS SECTIONS 7	SHEET 361 OF 395

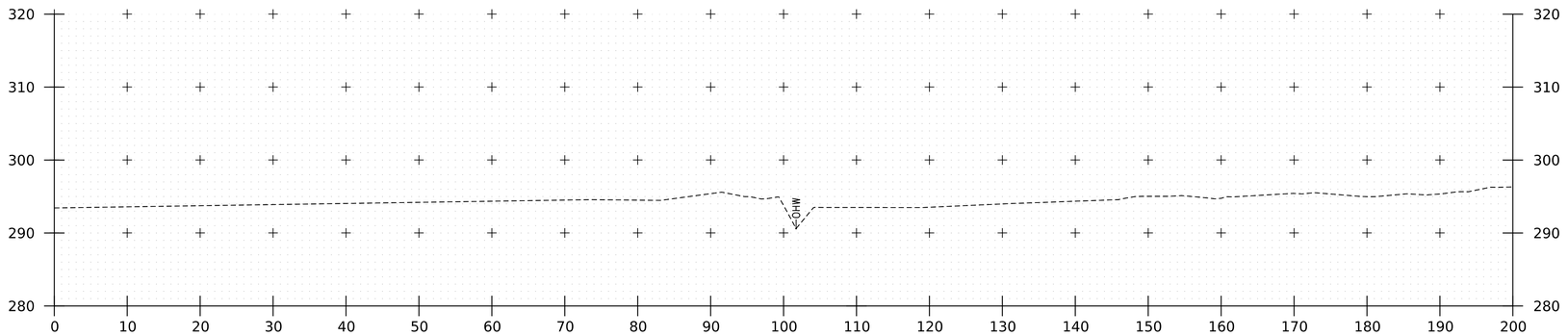
HNTB



801+25 RT



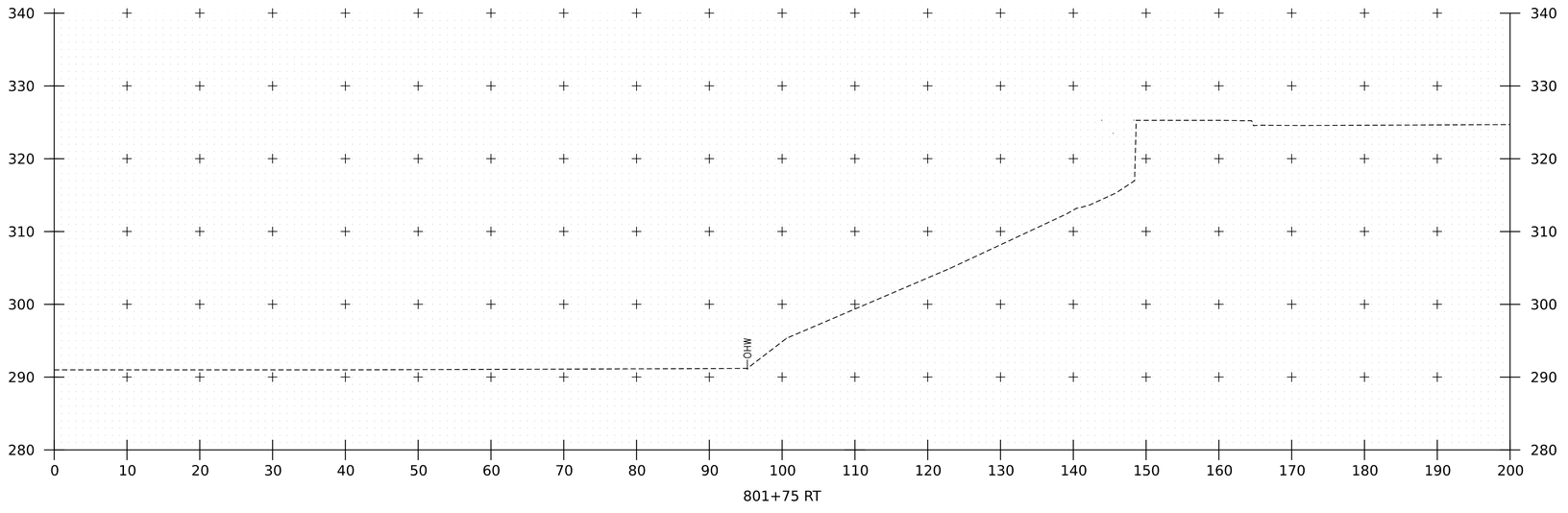
801+00 RT



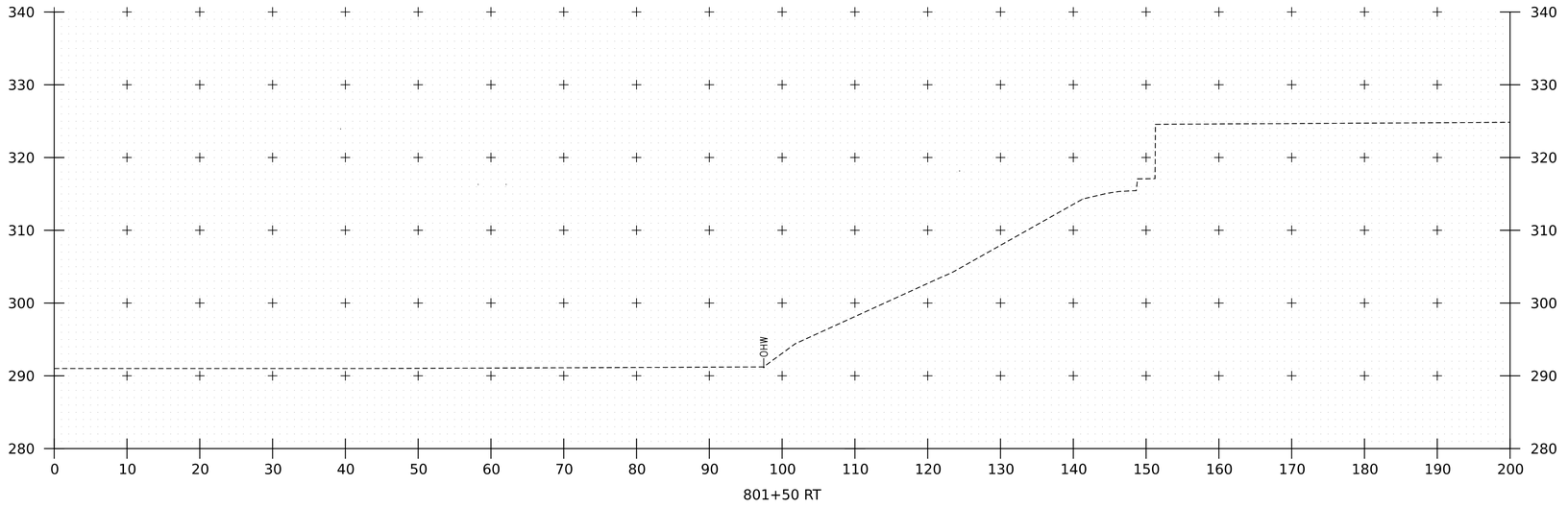
800+75 RT

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Black_River.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - RIGHT I	SHEET 362 OF 395

HNTB



801+75 RT

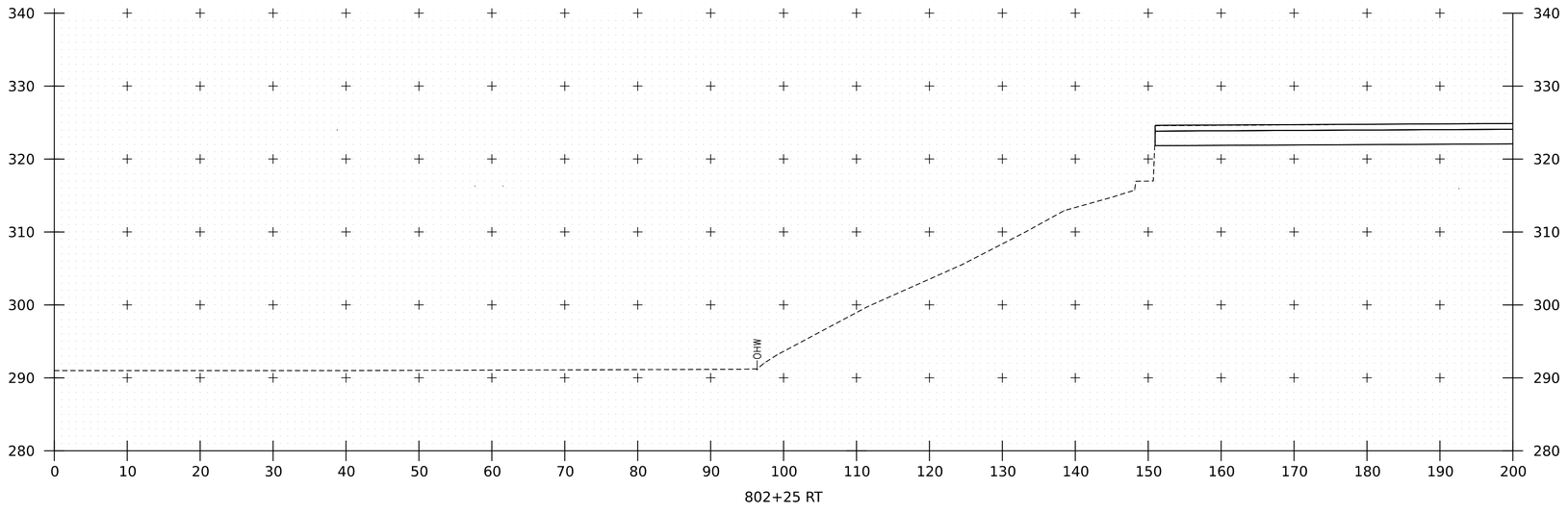


801+50 RT

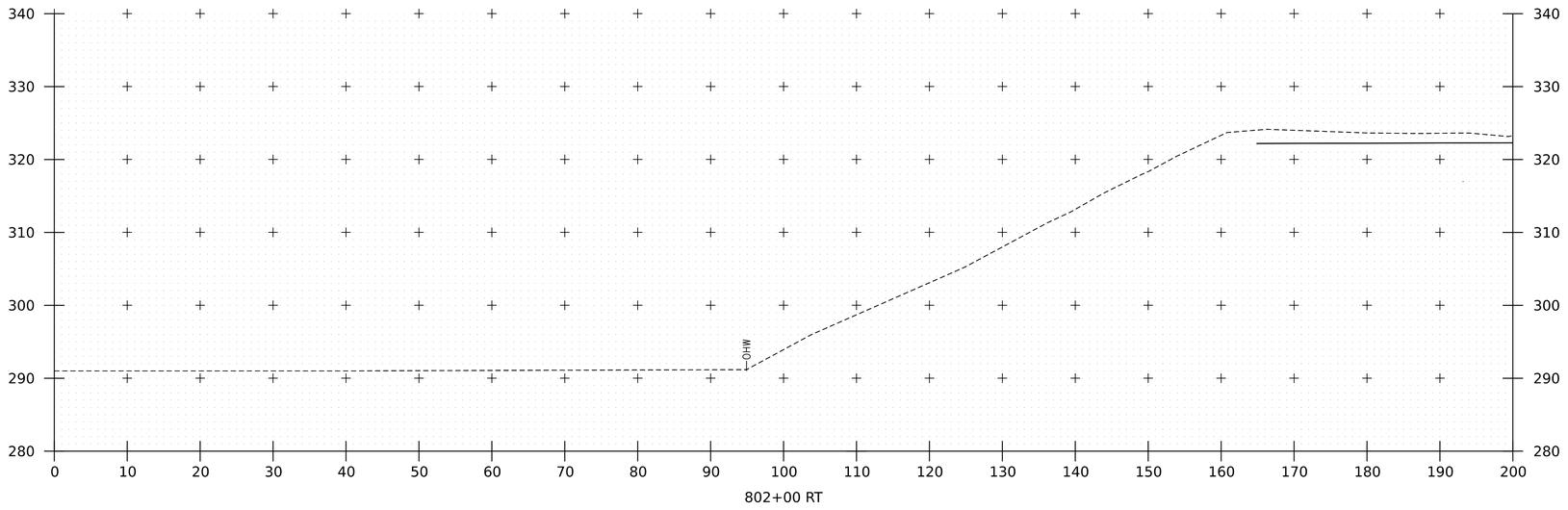
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_Black_River.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - RIGHT 2	SHEET 363 OF 395

HNTB



802+25 RT

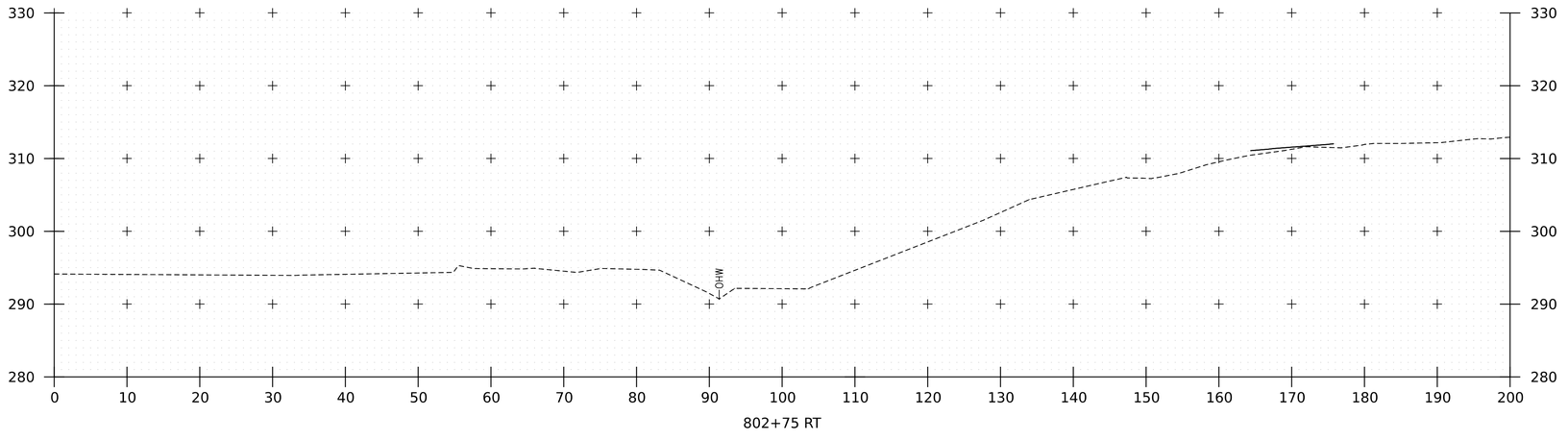


802+00 RT

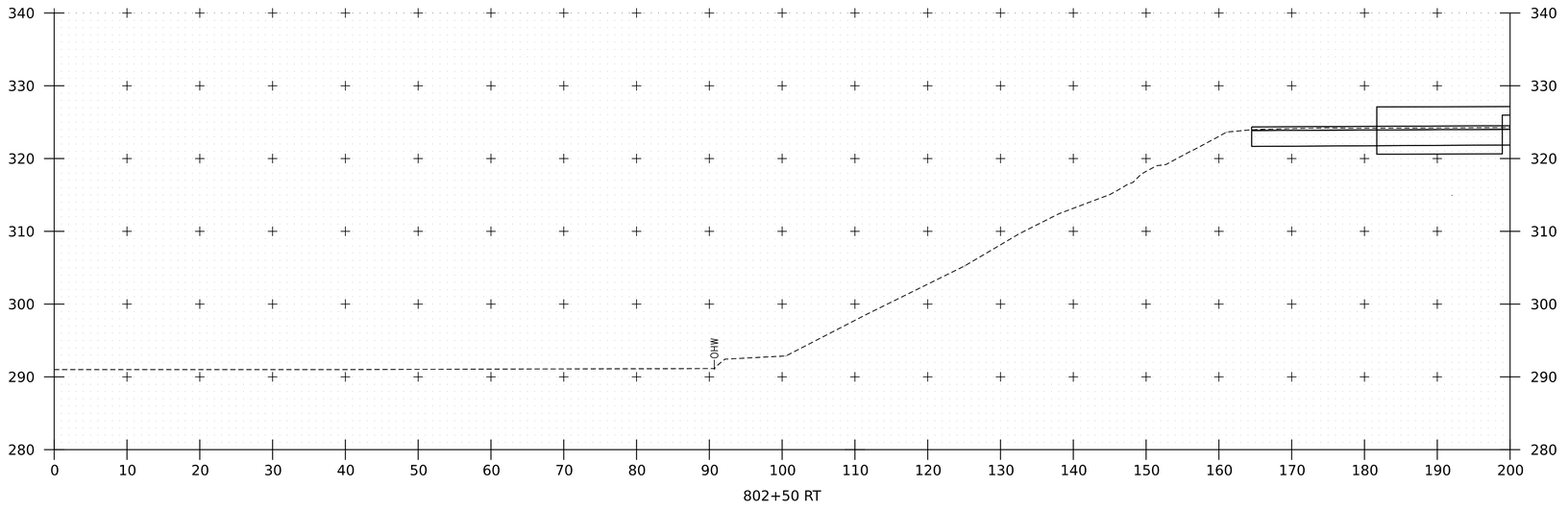
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_Black_River.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - RIGHT 3	SHEET 364 OF 395

HNTB



802+75 RT

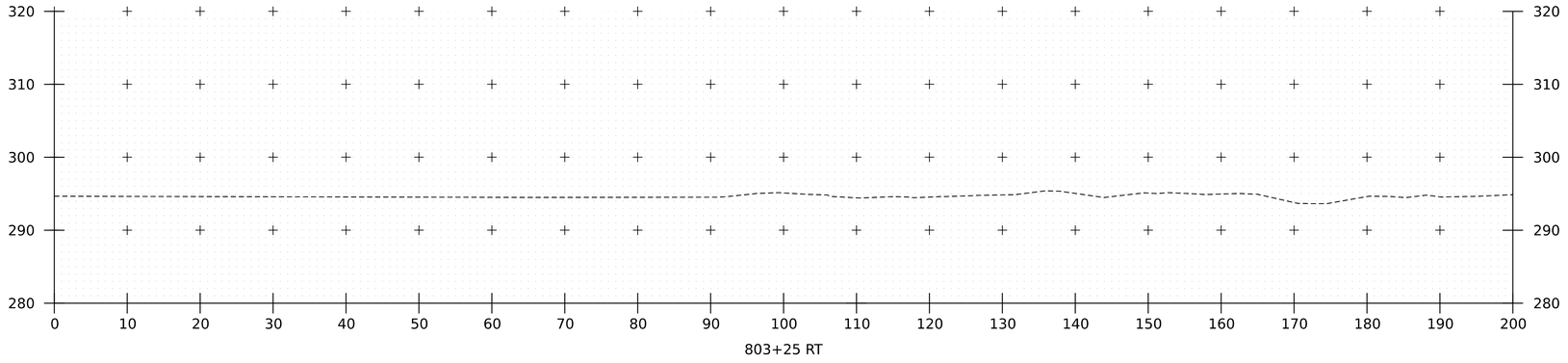


802+50 RT

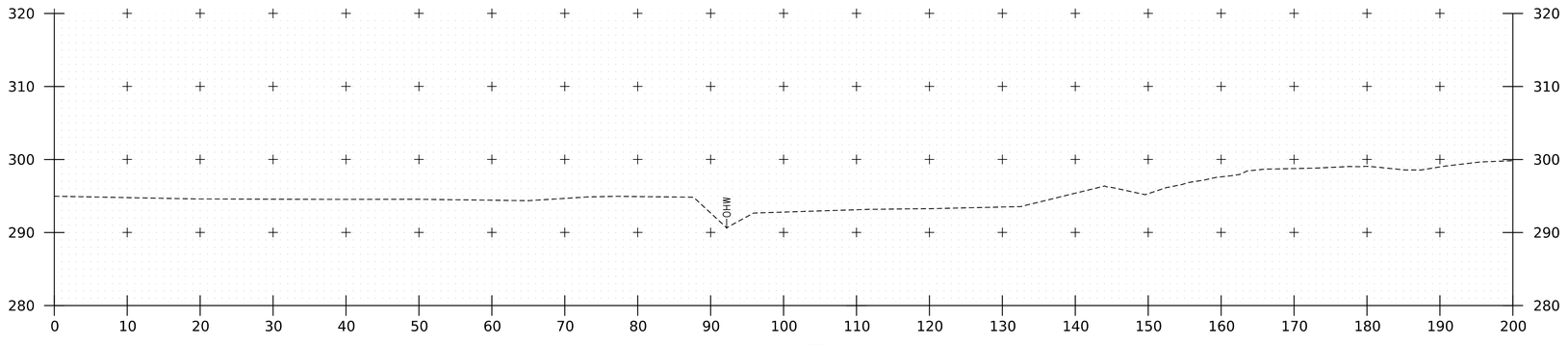
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_Black_River.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - RIGHT 4	SHEET 365 OF 395

HNTB



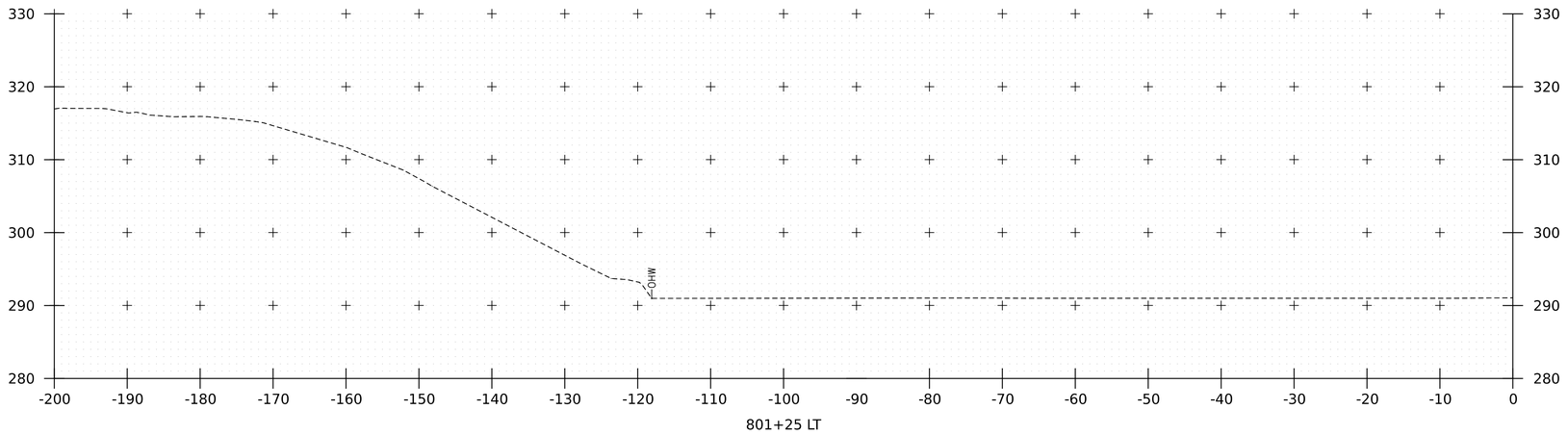
803+25 RT



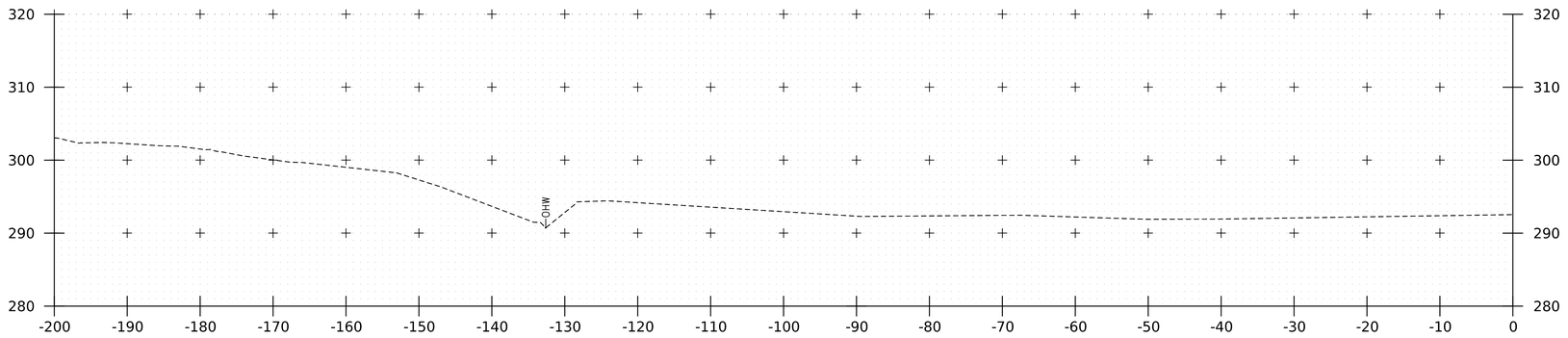
803+00 RT

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Black_River.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - RIGHT 5	SHEET 366 OF 395

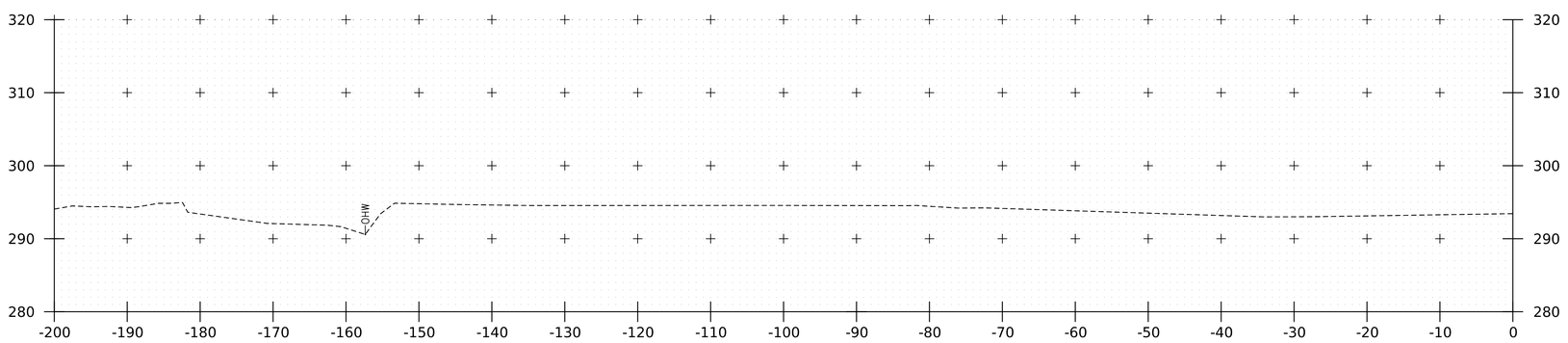
HNTB



801+25 LT



801+00 LT

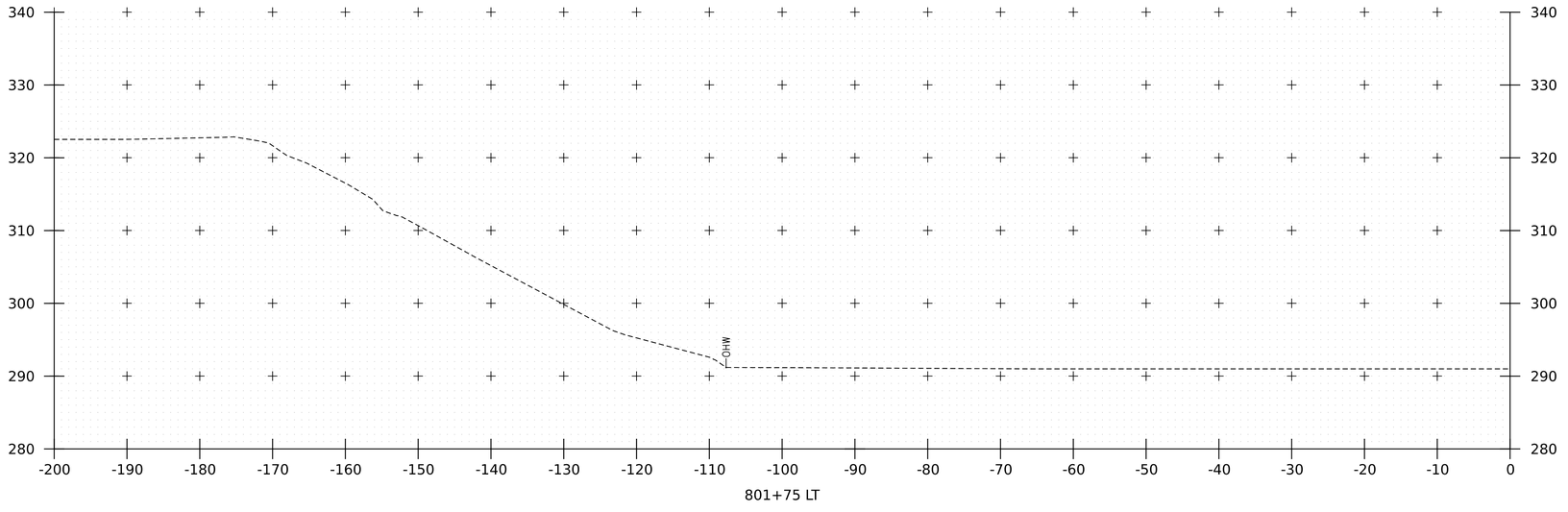


800+75 LT

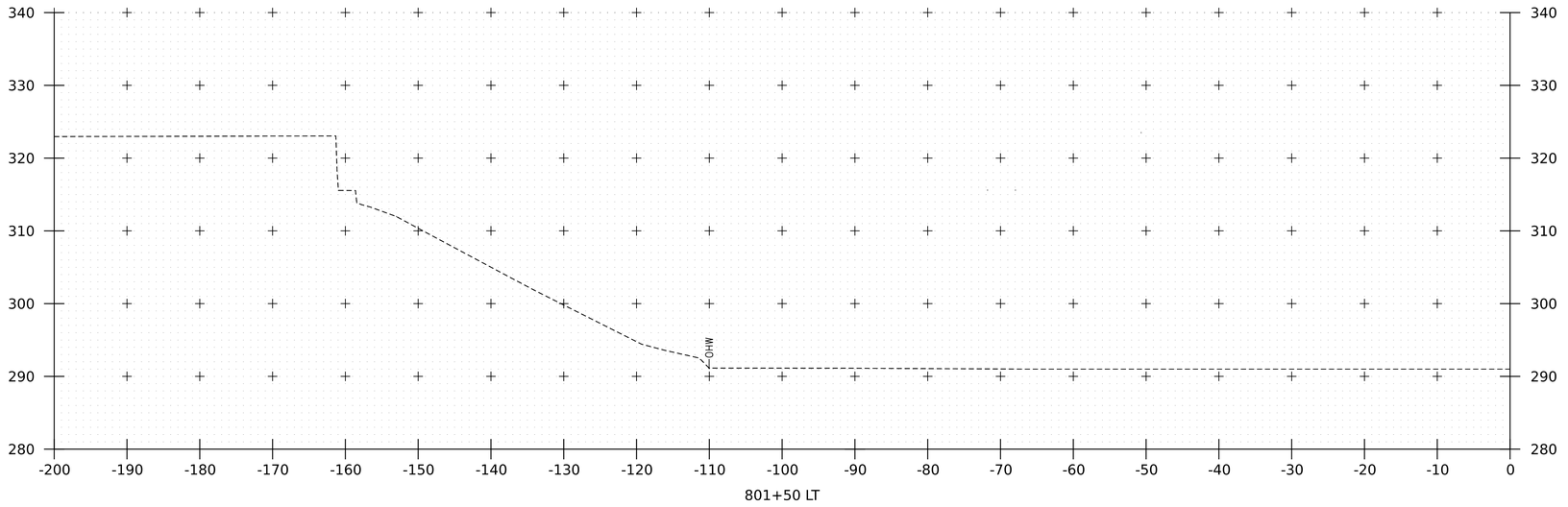
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_Black_River.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - LEFT 1	SHEET 367 OF 395

HNTB



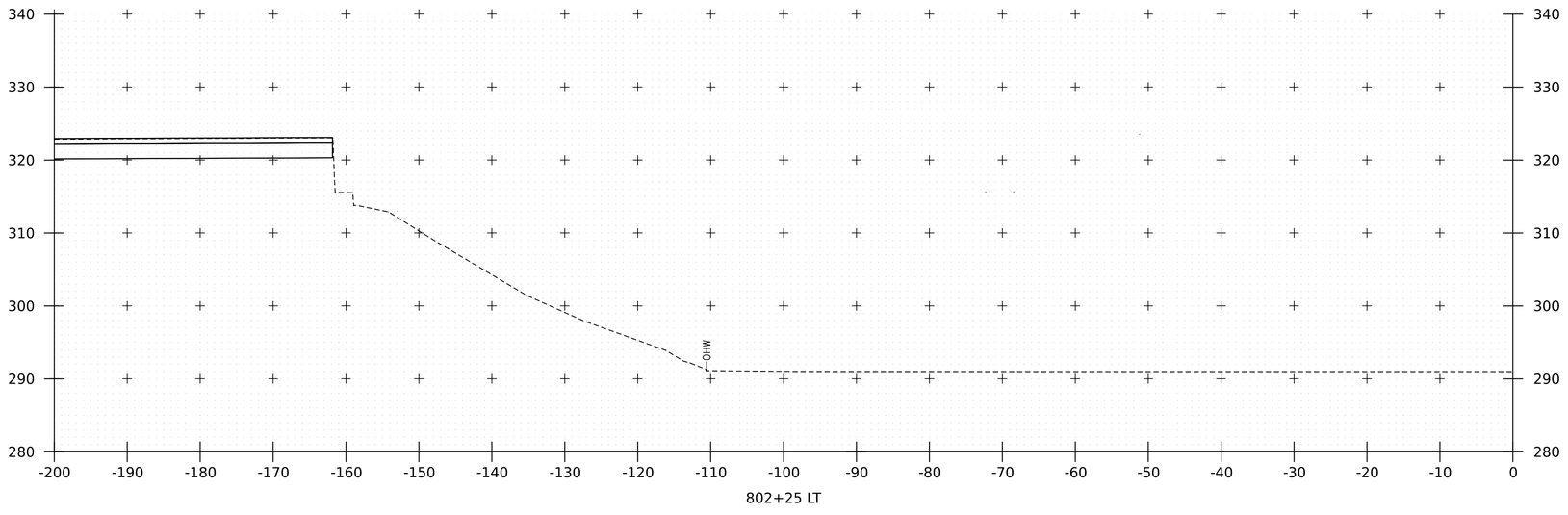
801+75 LT



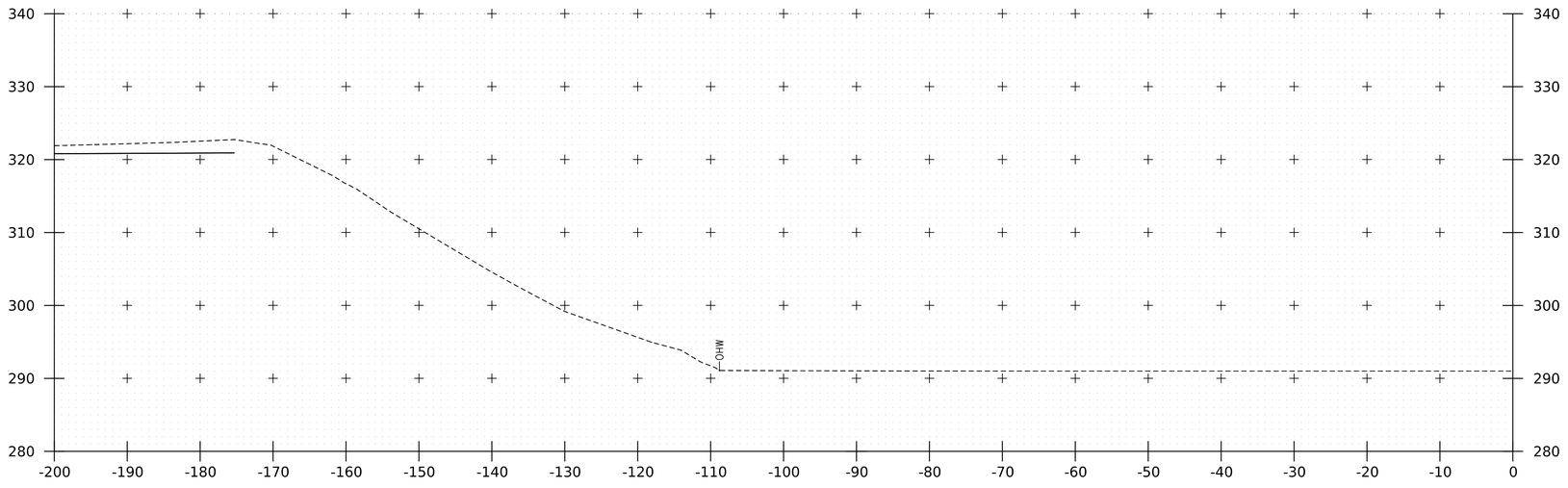
801+50 LT

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Black_River.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - LEFT 2	SHEET 368 OF 395

HNTB



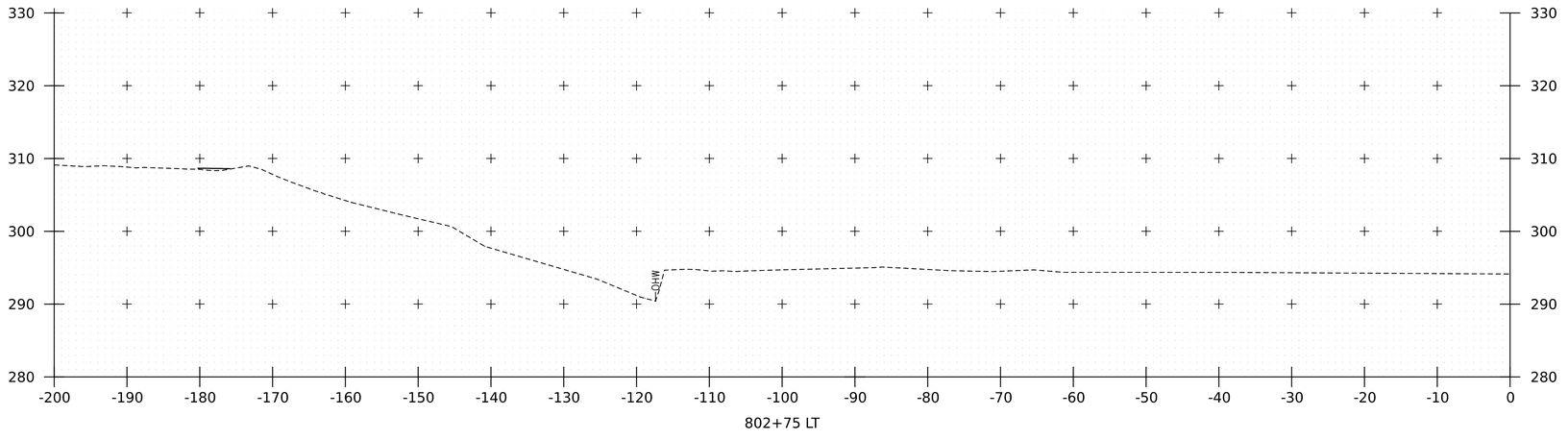
802+25 LT



802+00 LT

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Black_River.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - LEFT 3	SHEET 369 OF 395

HNTB



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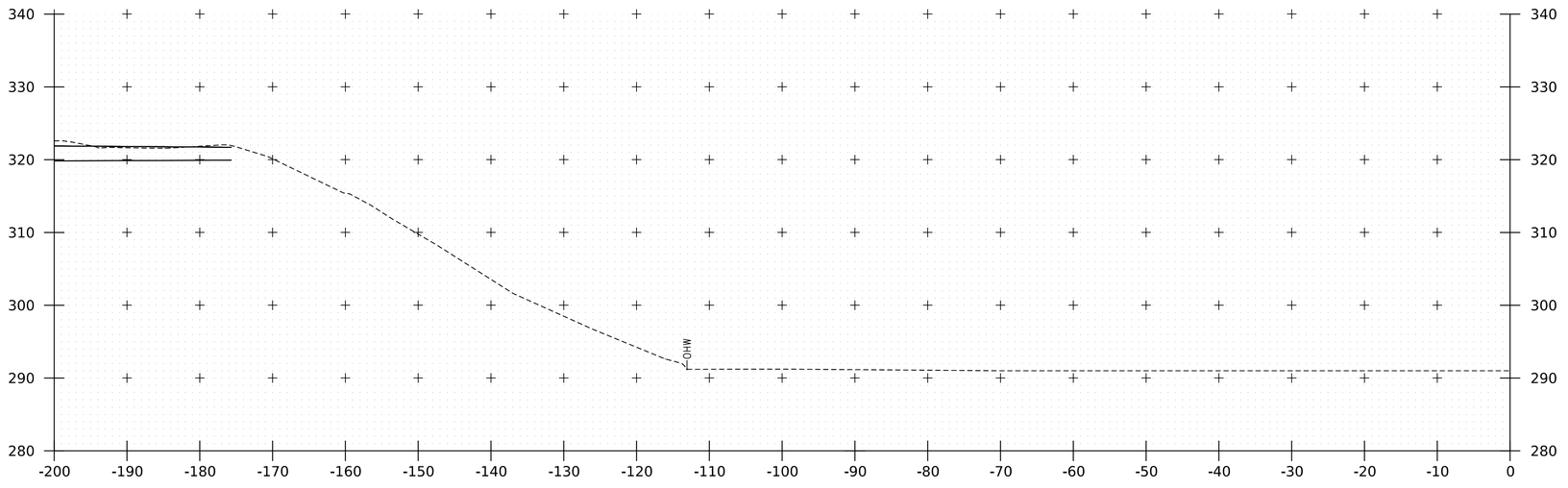
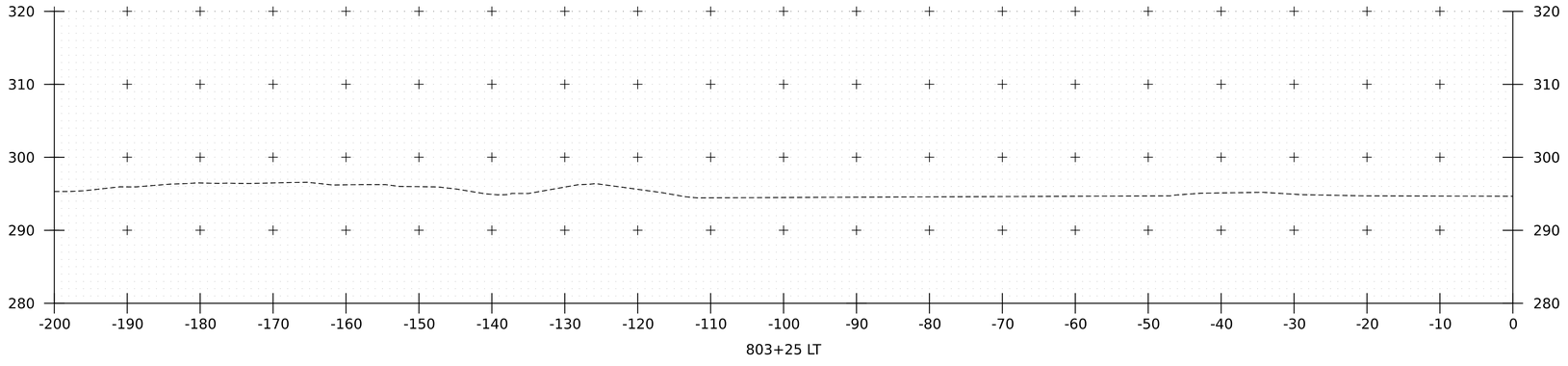


802+50 LT

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Black_River.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - LEFT 4	SHEET 370 OF 395

HNTB



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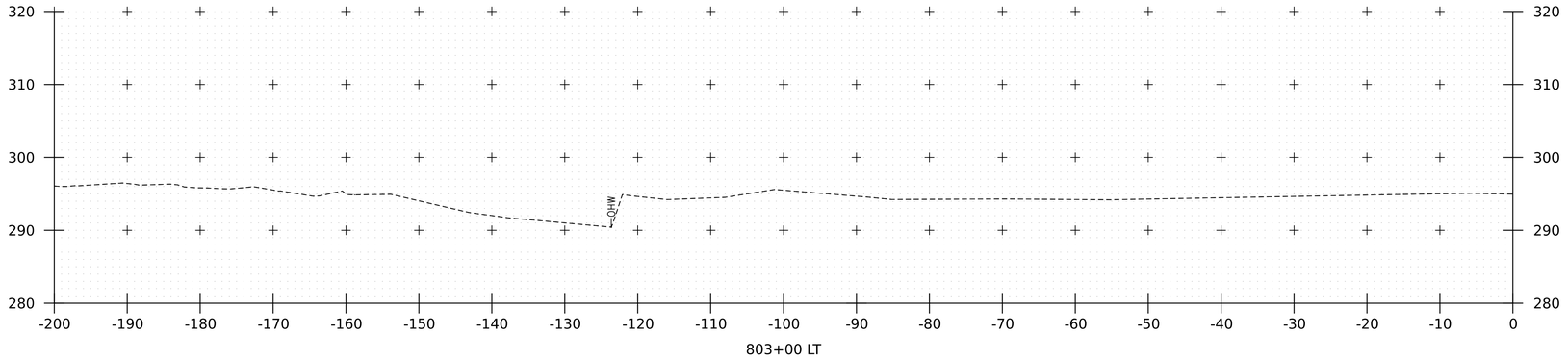
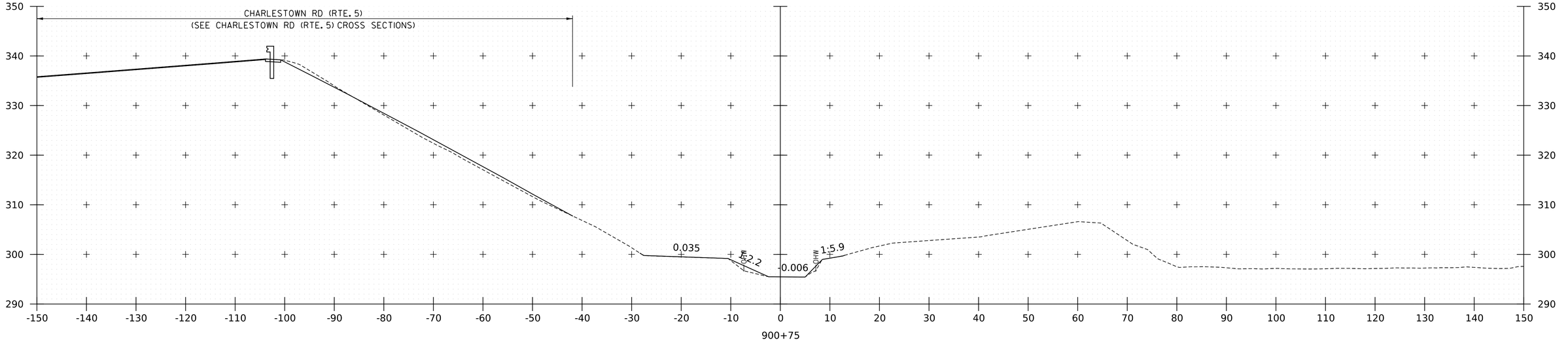


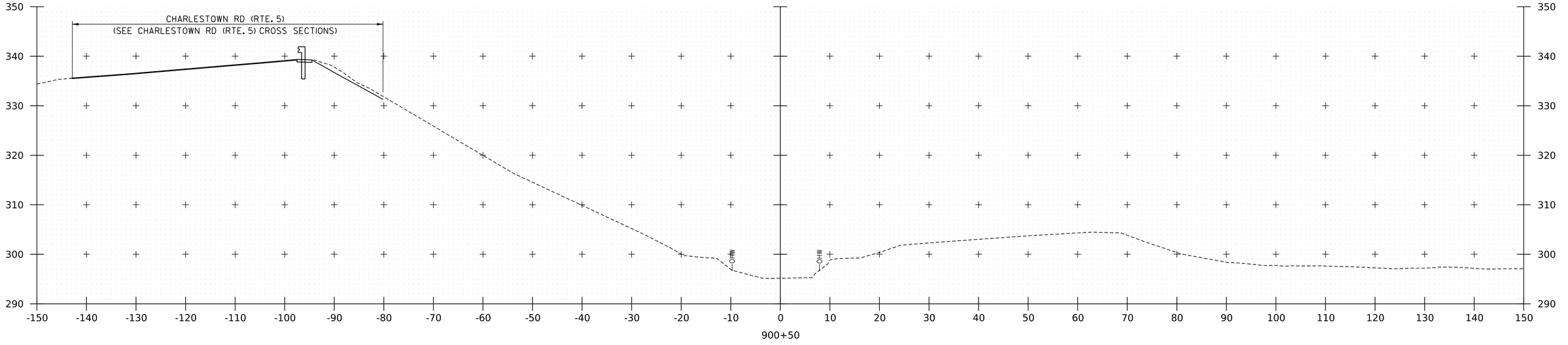
803+00 LT

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Black_River.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - LEFT 5	SHEET 371 OF 395

HNTB



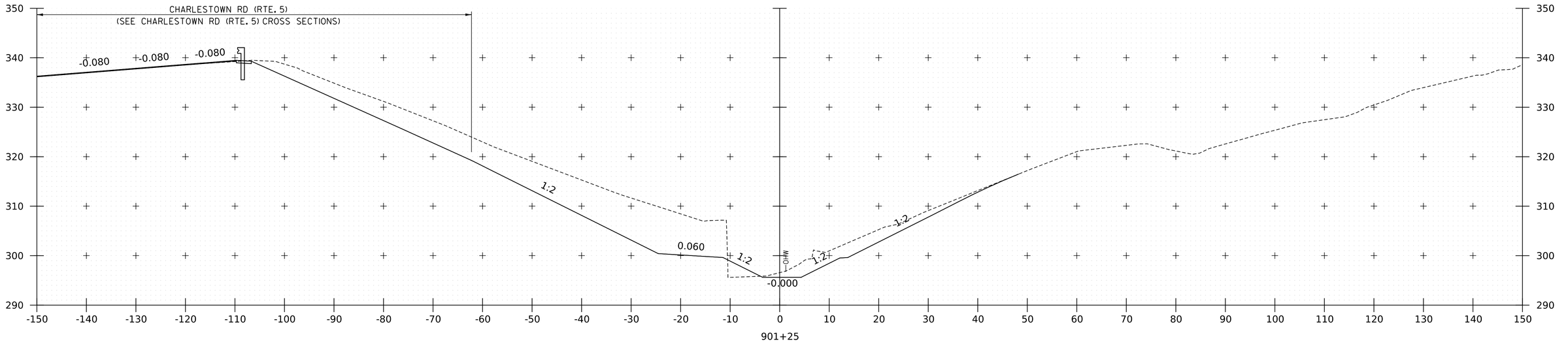
900+75

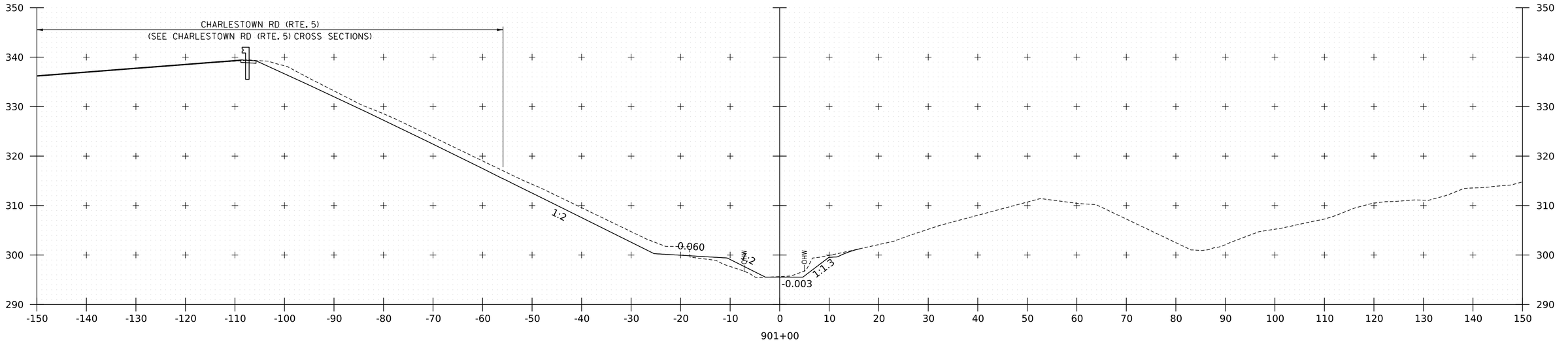


900+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 1	SHEET 372 OF 395

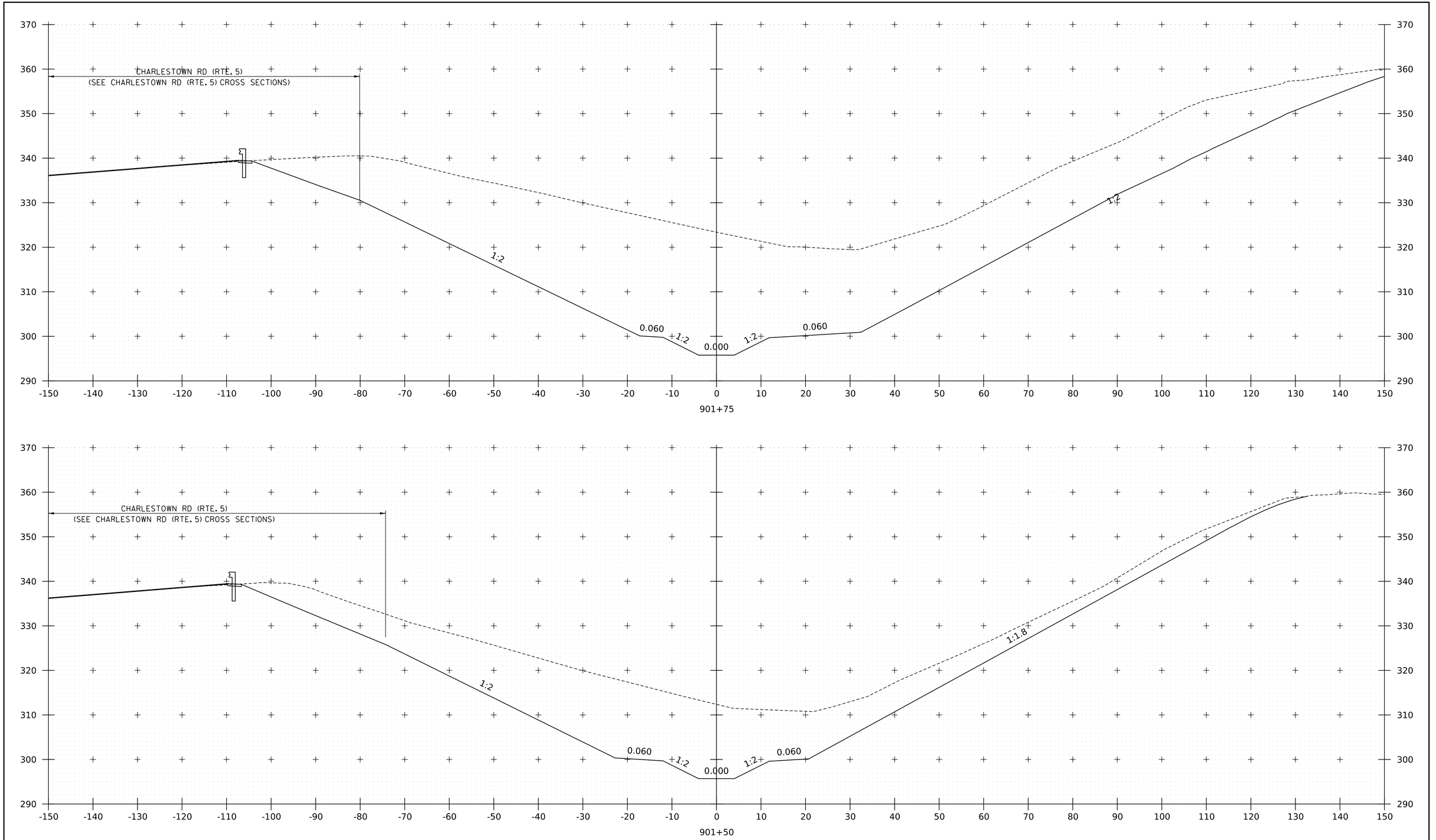
HNTB





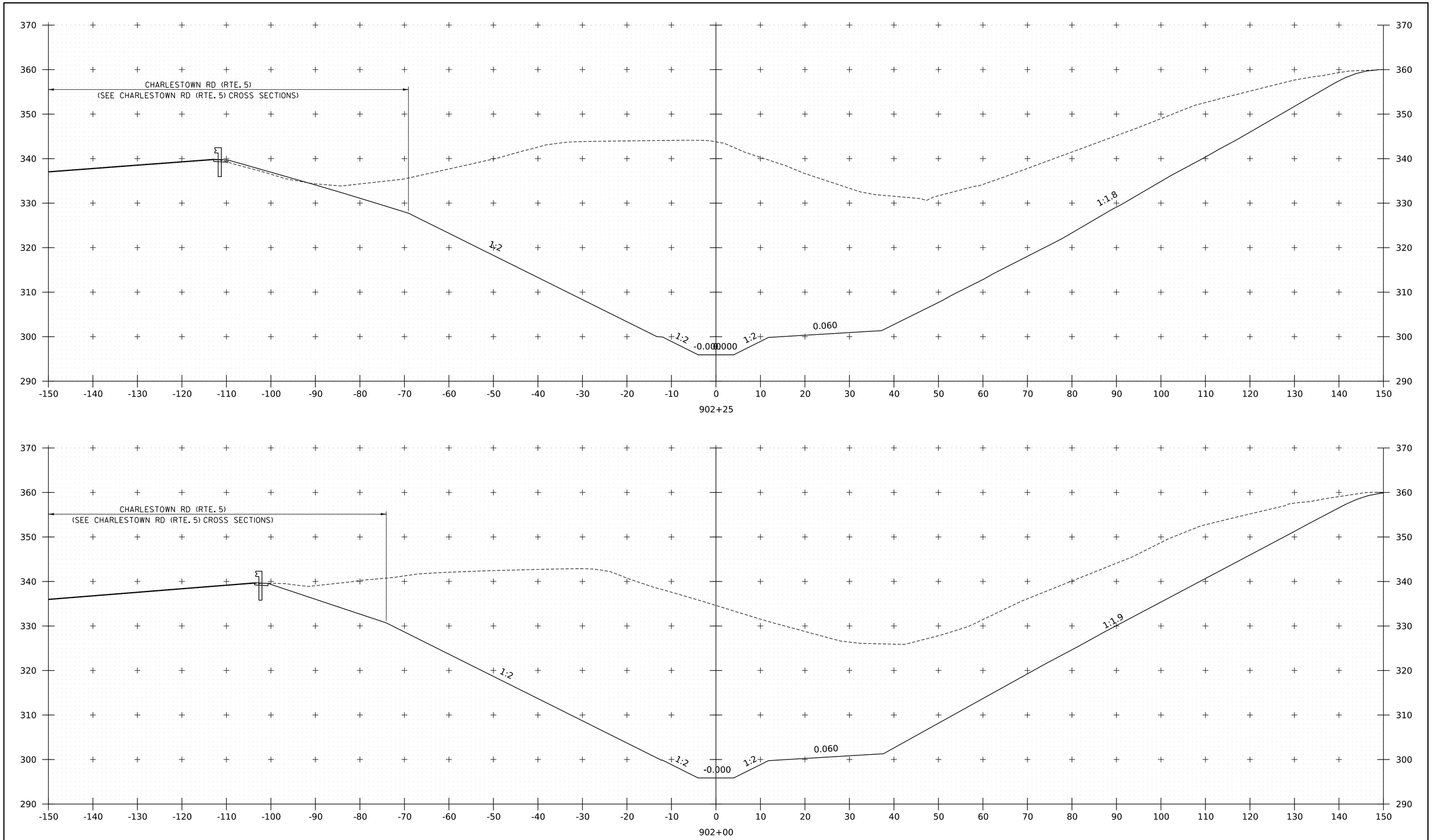
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 2	SHEET 373 OF 395

HNTB



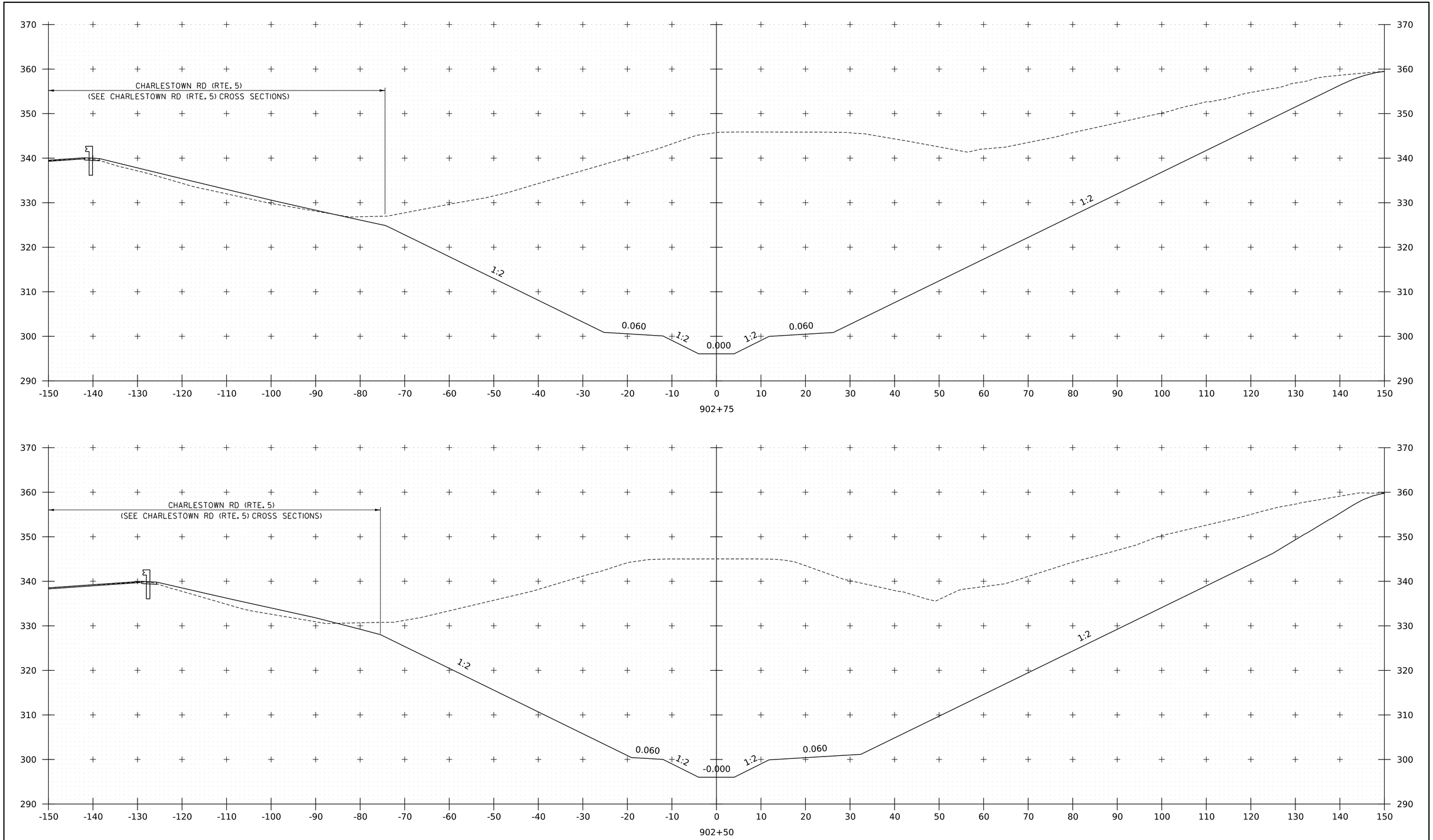
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 3	SHEET 374 OF 395

HNTB



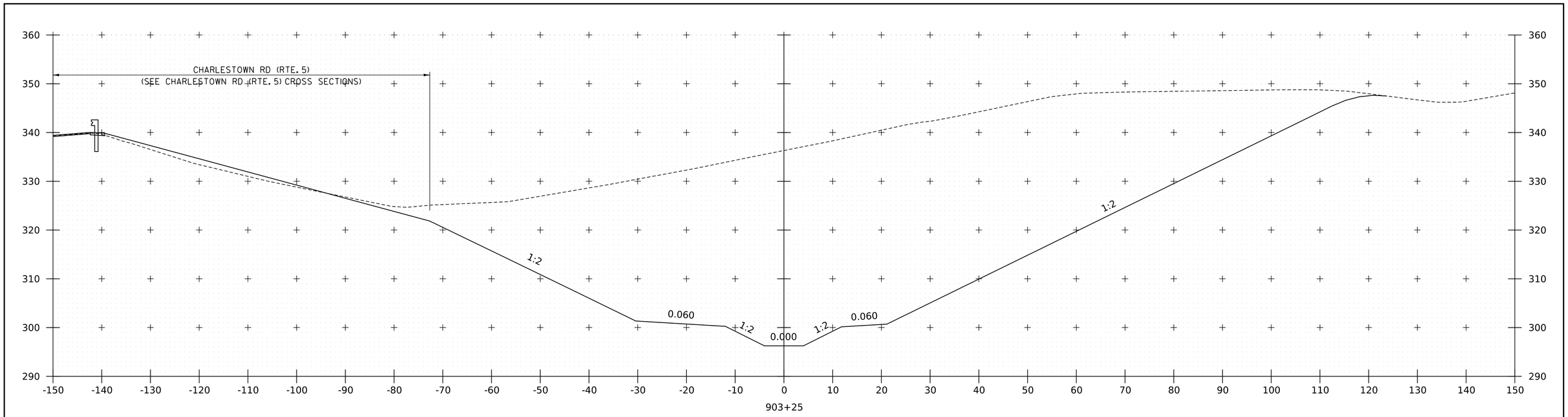
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 4	SHEET 375 OF 395

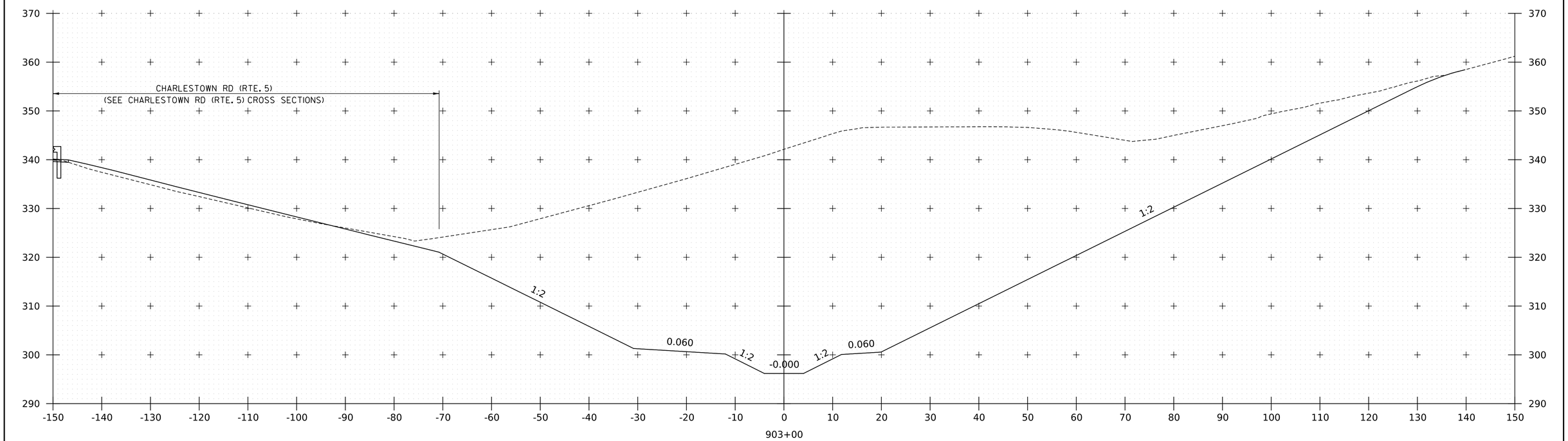
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 5	SHEET 376 OF 395

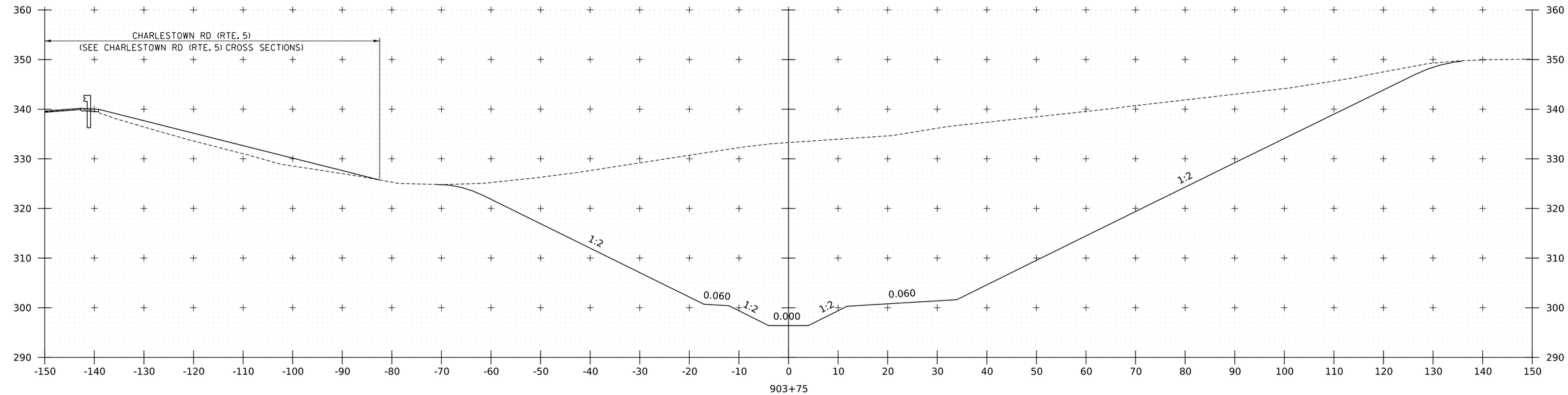
HNTB

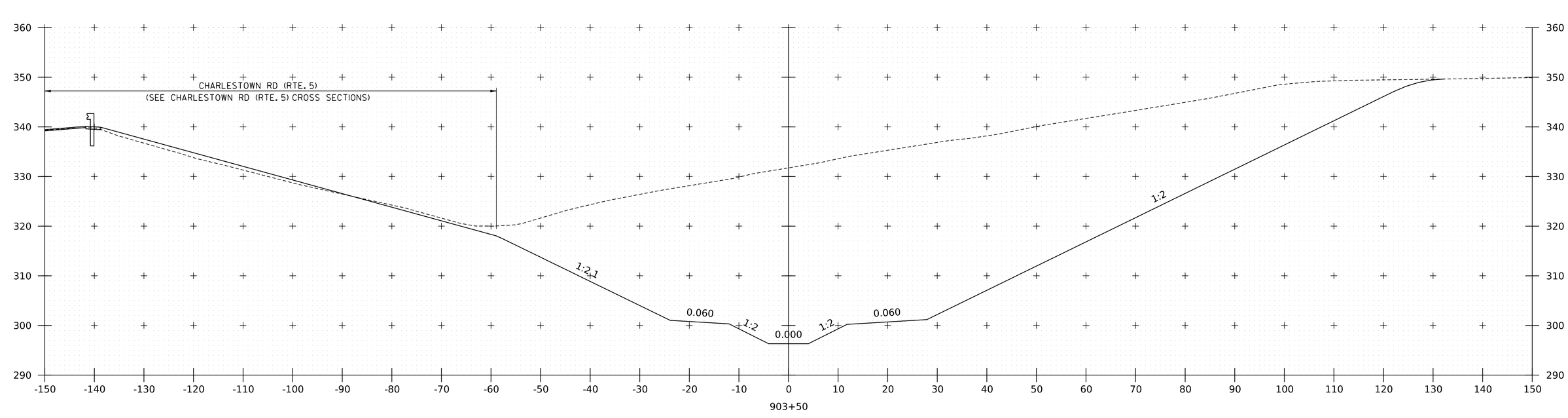




PROJECT NAME:	VAOT PROJECT NAME
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 6	SHEET 377 OF 395

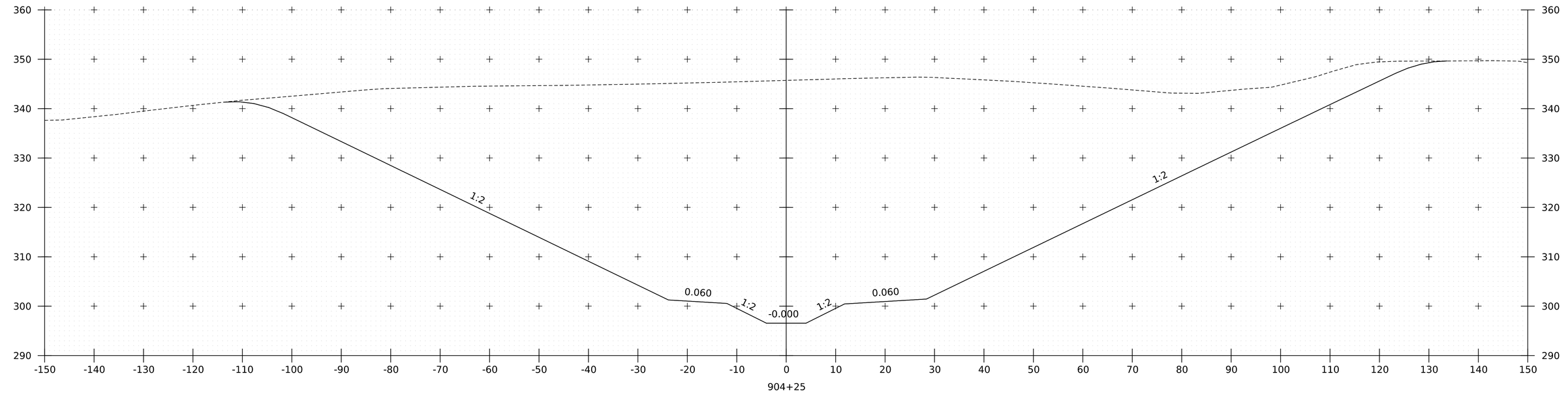
HNTB

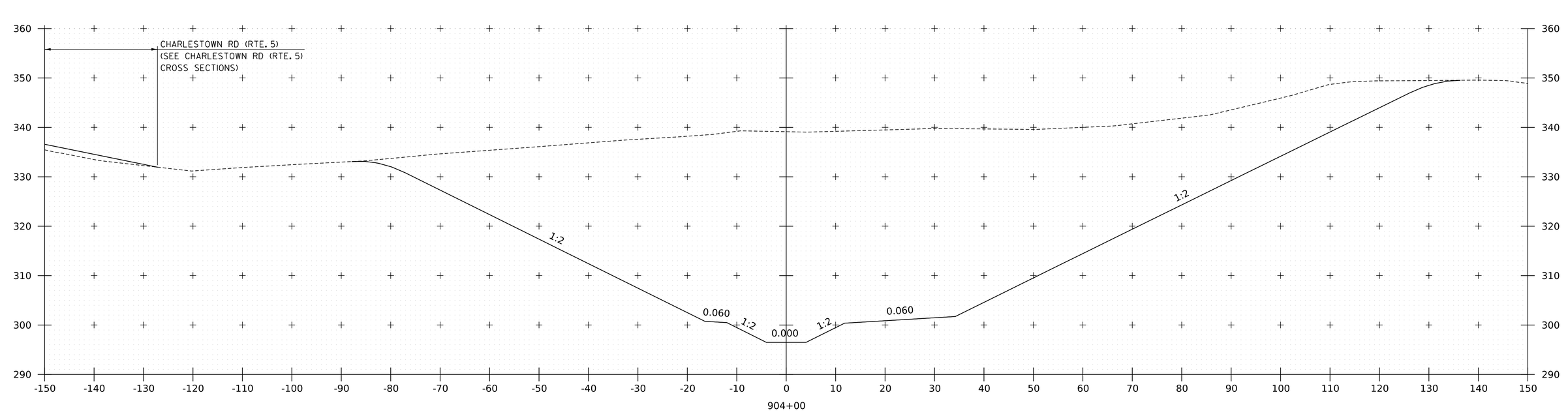




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 7	SHEET 378 OF 395

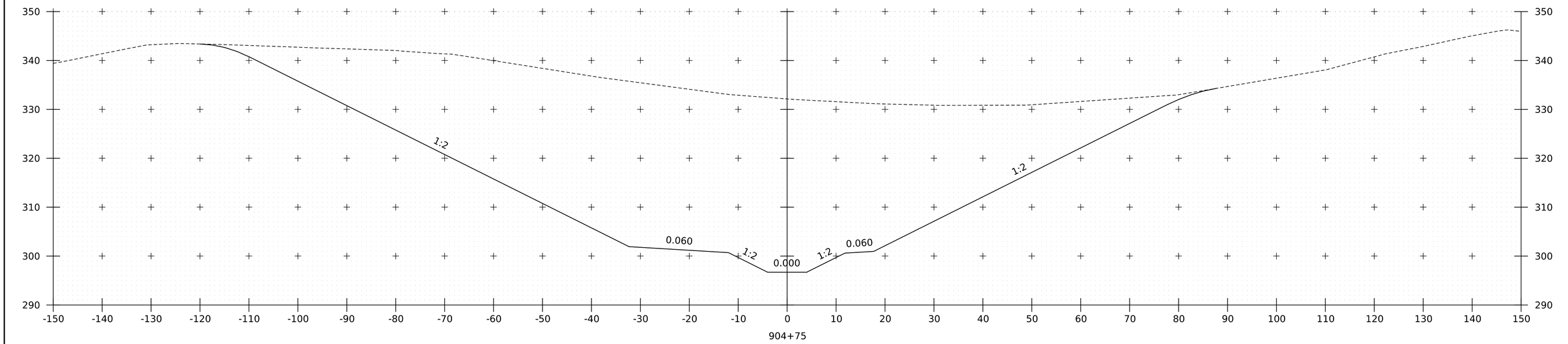
HNTB

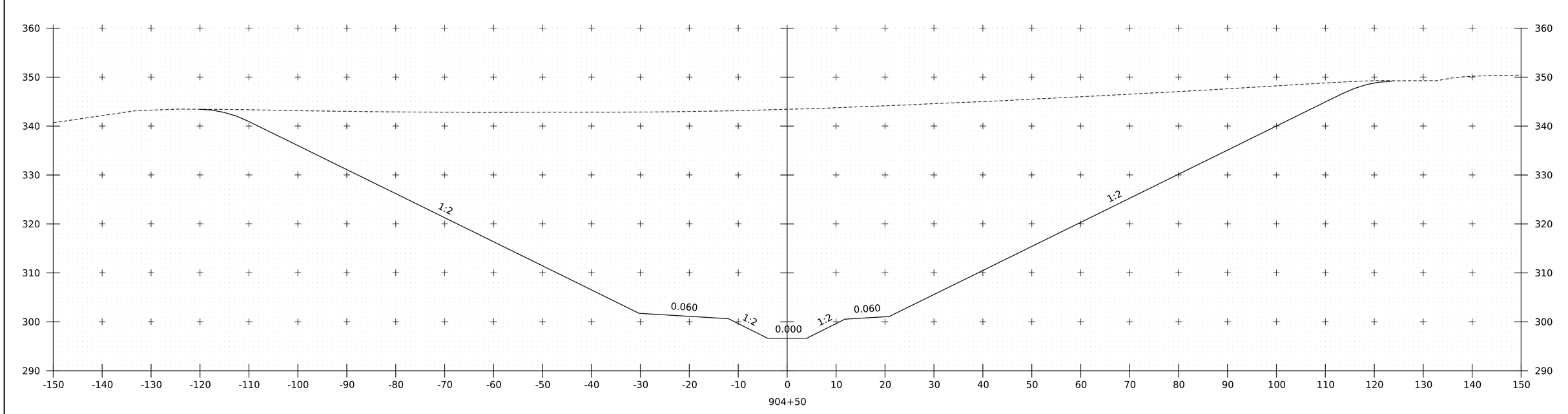




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 8	SHEET 379 OF 395

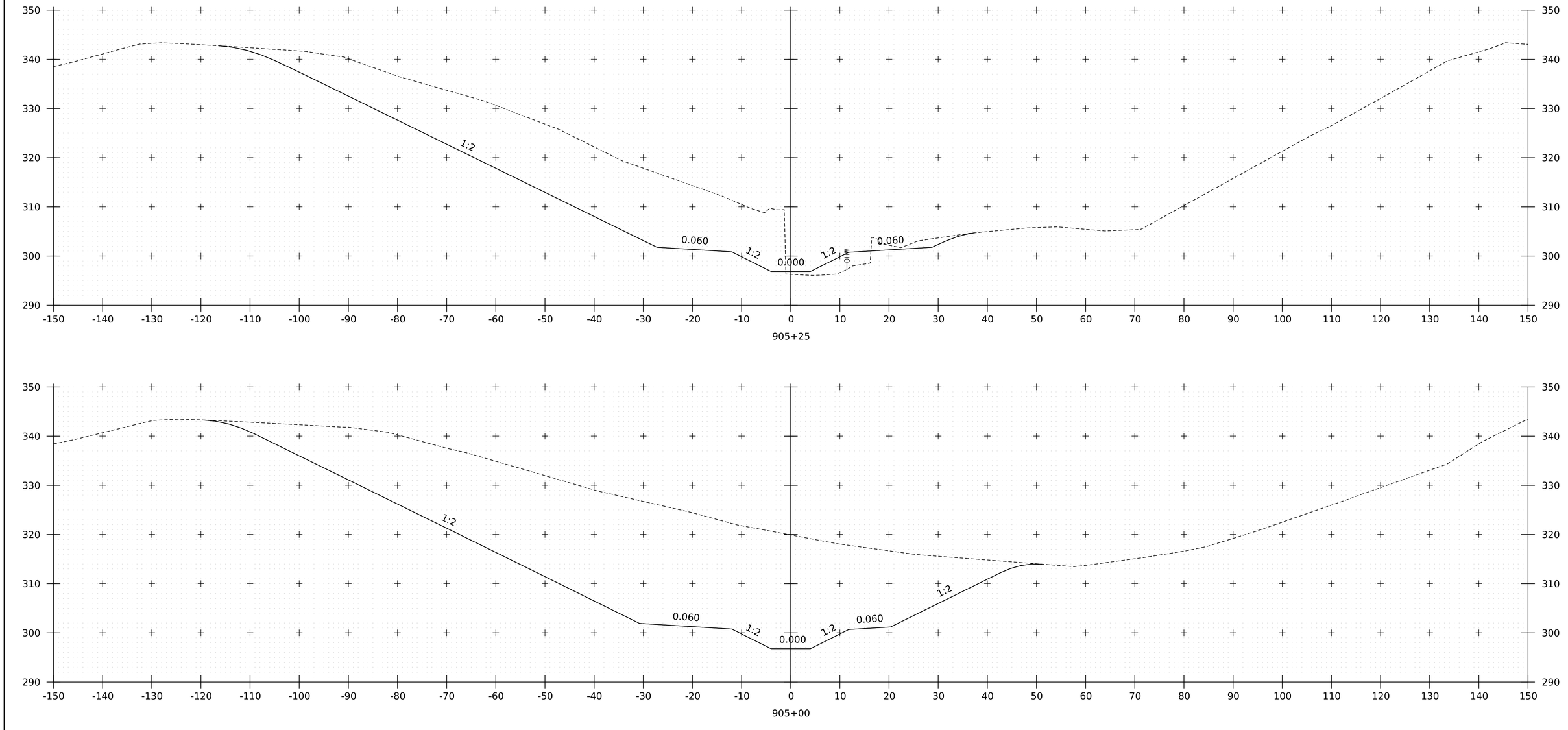
HNTB





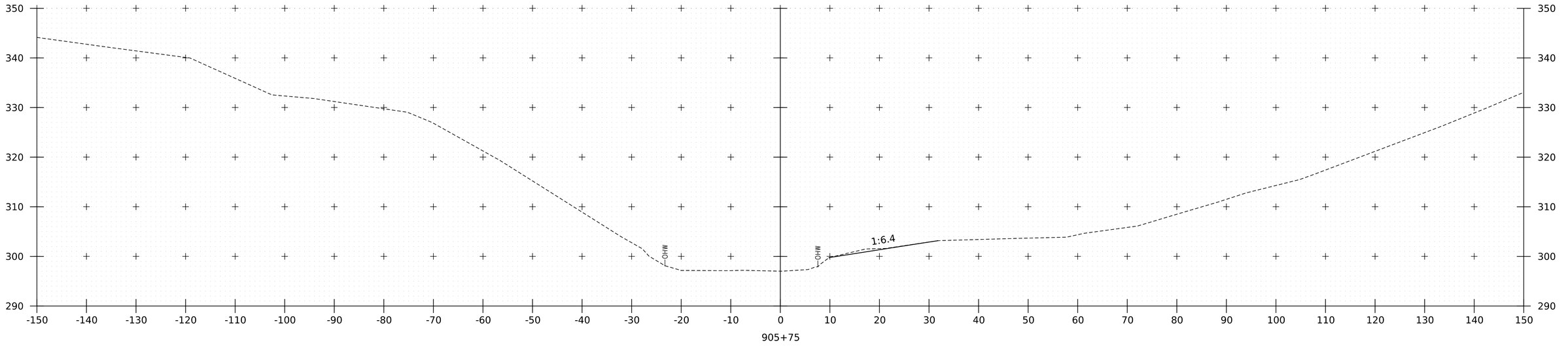
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 9	SHEET 380 OF 395

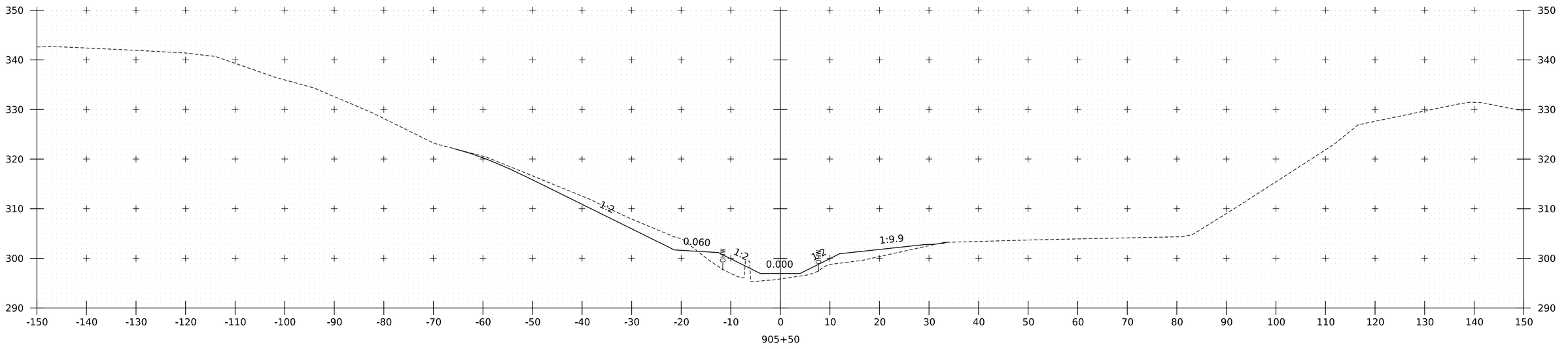
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 10	SHEET 381 OF 395

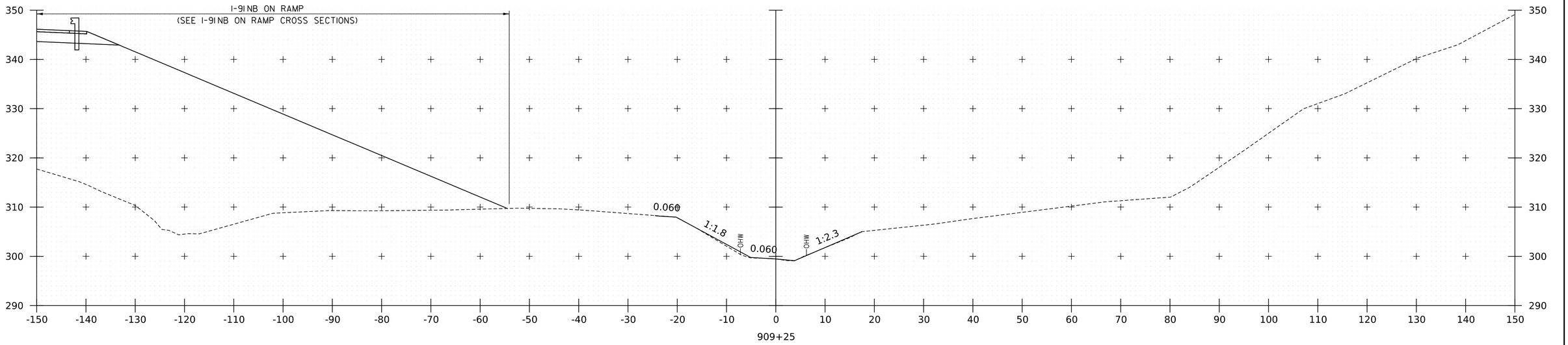
HNTB

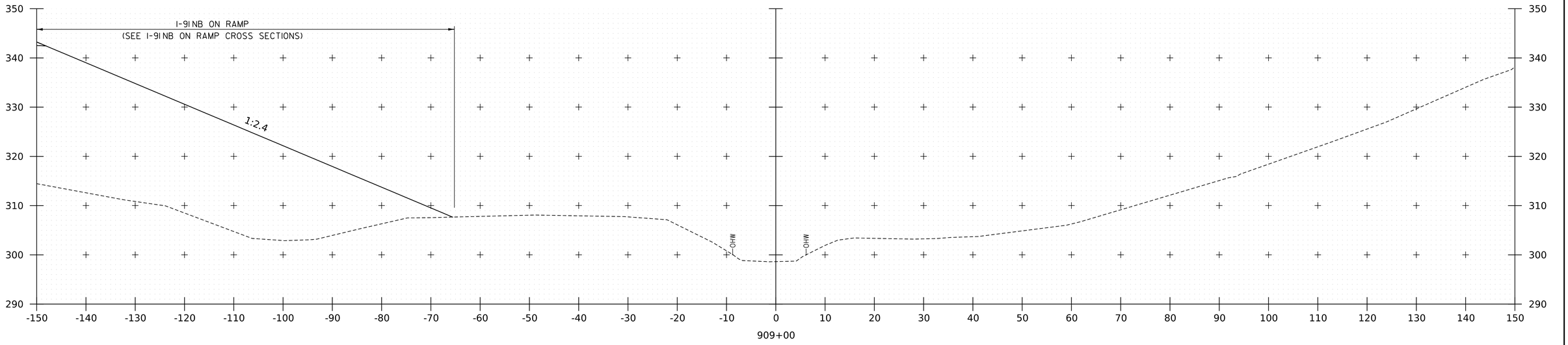




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS II	SHEET 382 OF 395

HNTB

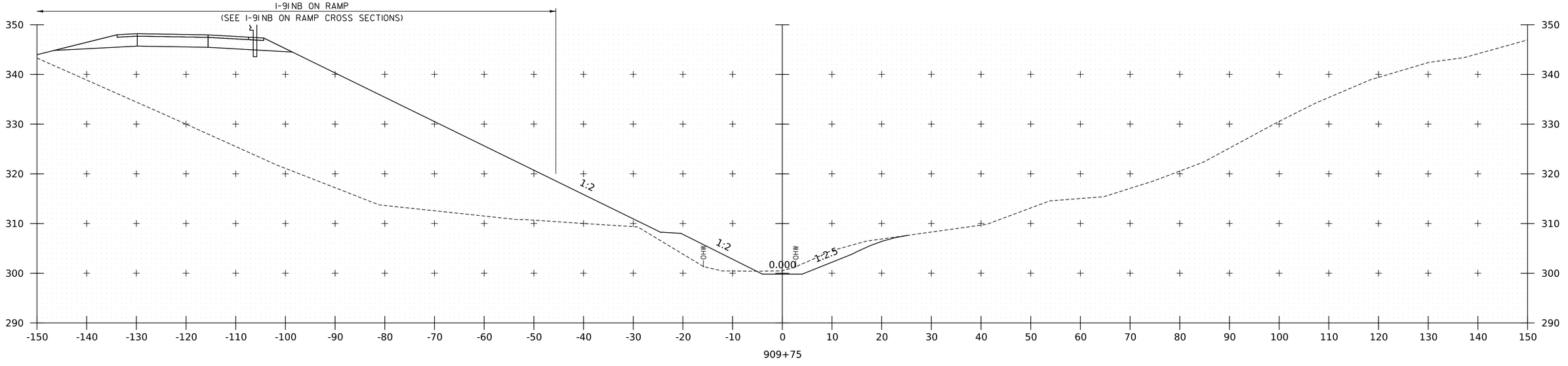




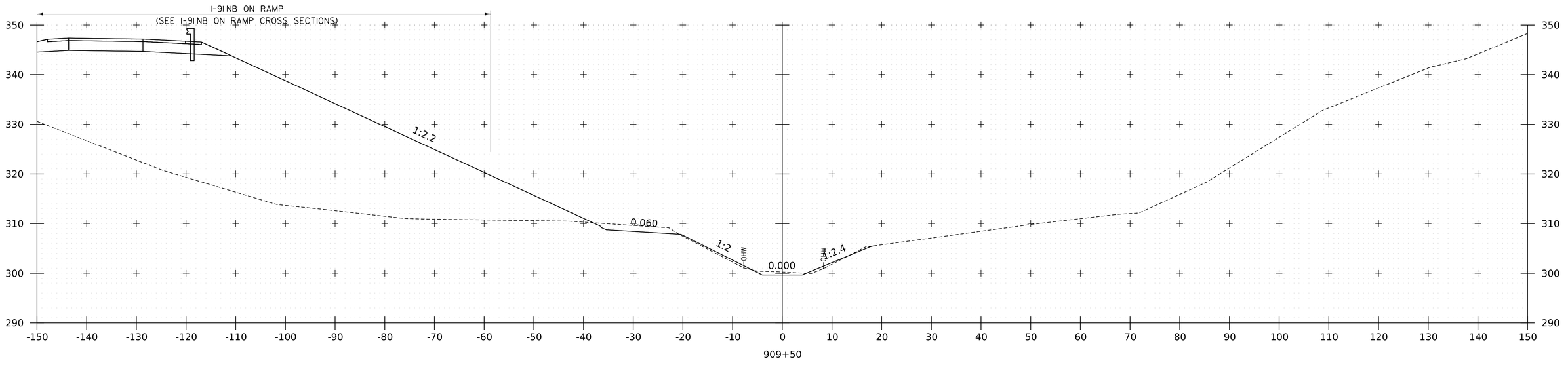
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_Spencer_Brook.dgn		PLOT DATE:	28-SEP-2022
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 12		SHEET	383 OF 395

HNTB



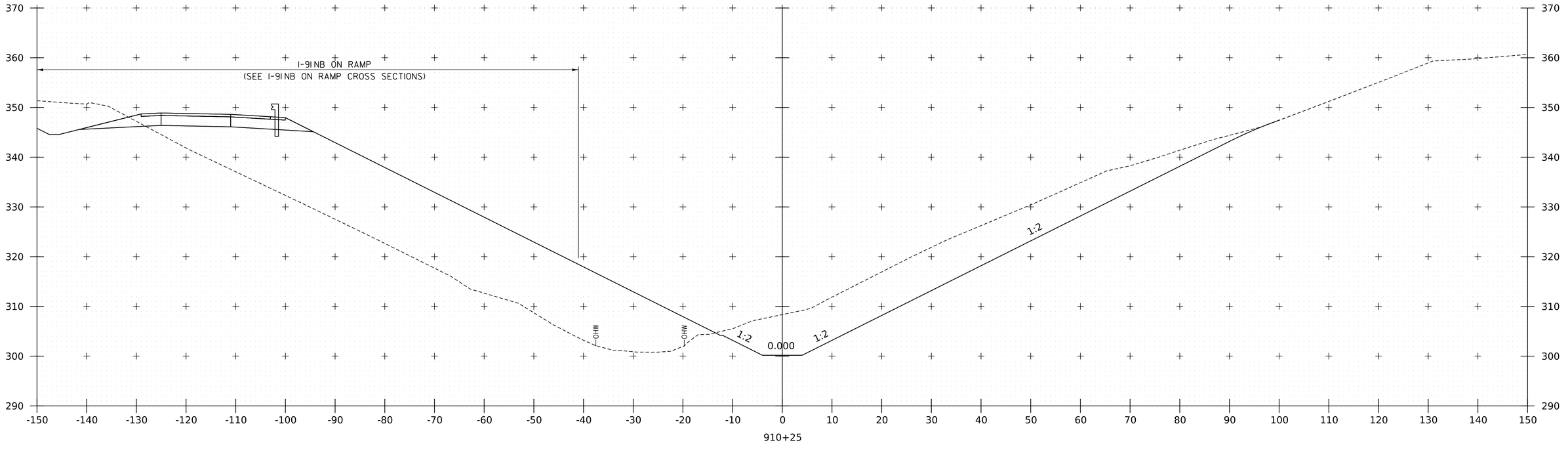
909+75

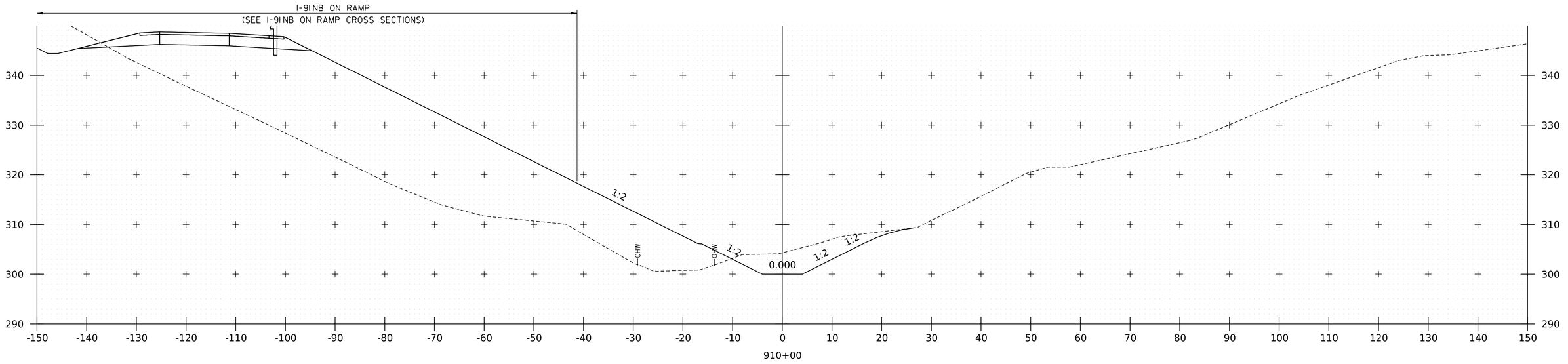


909+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 13	SHEET 384 OF 395

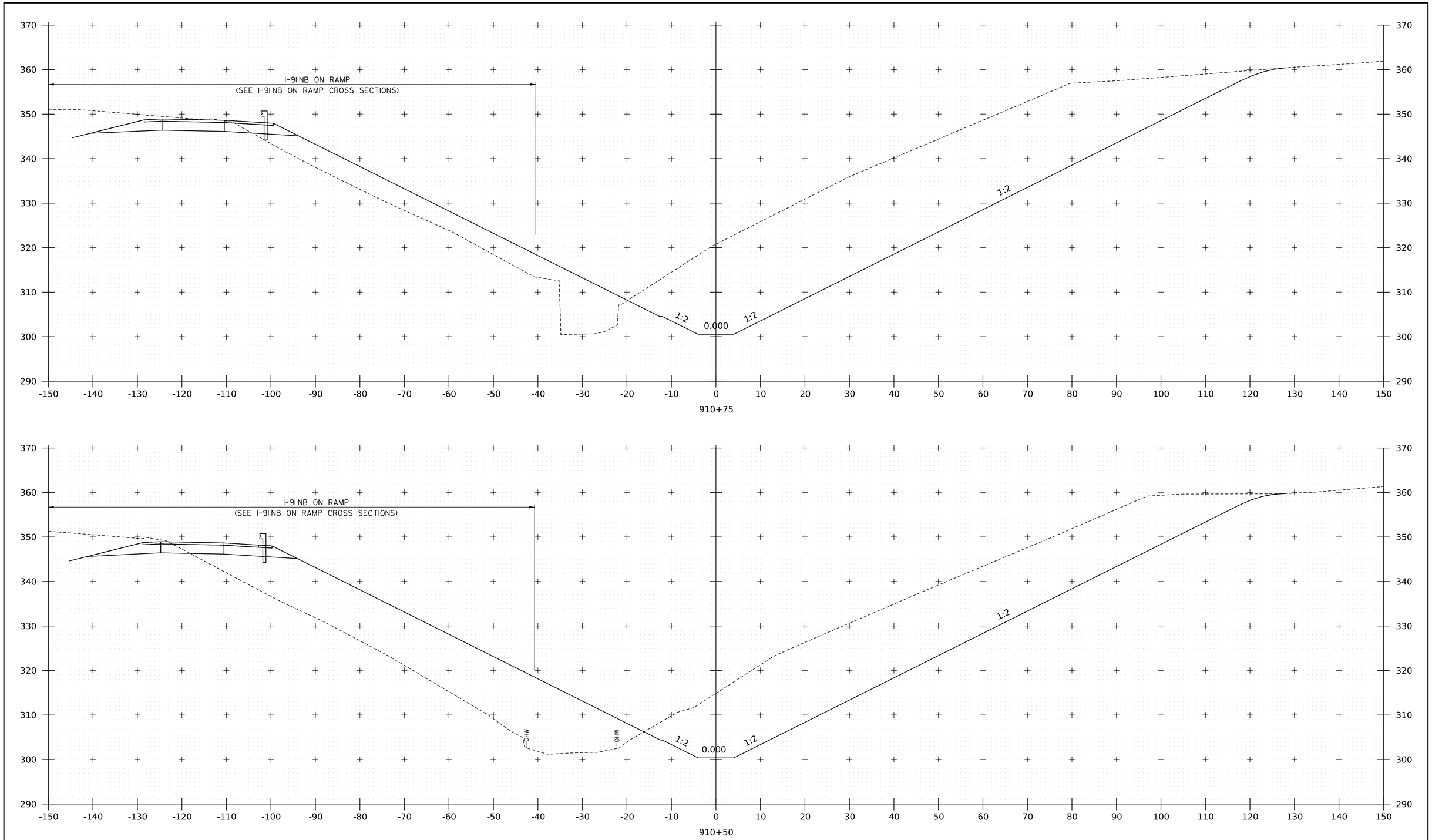
HNTB





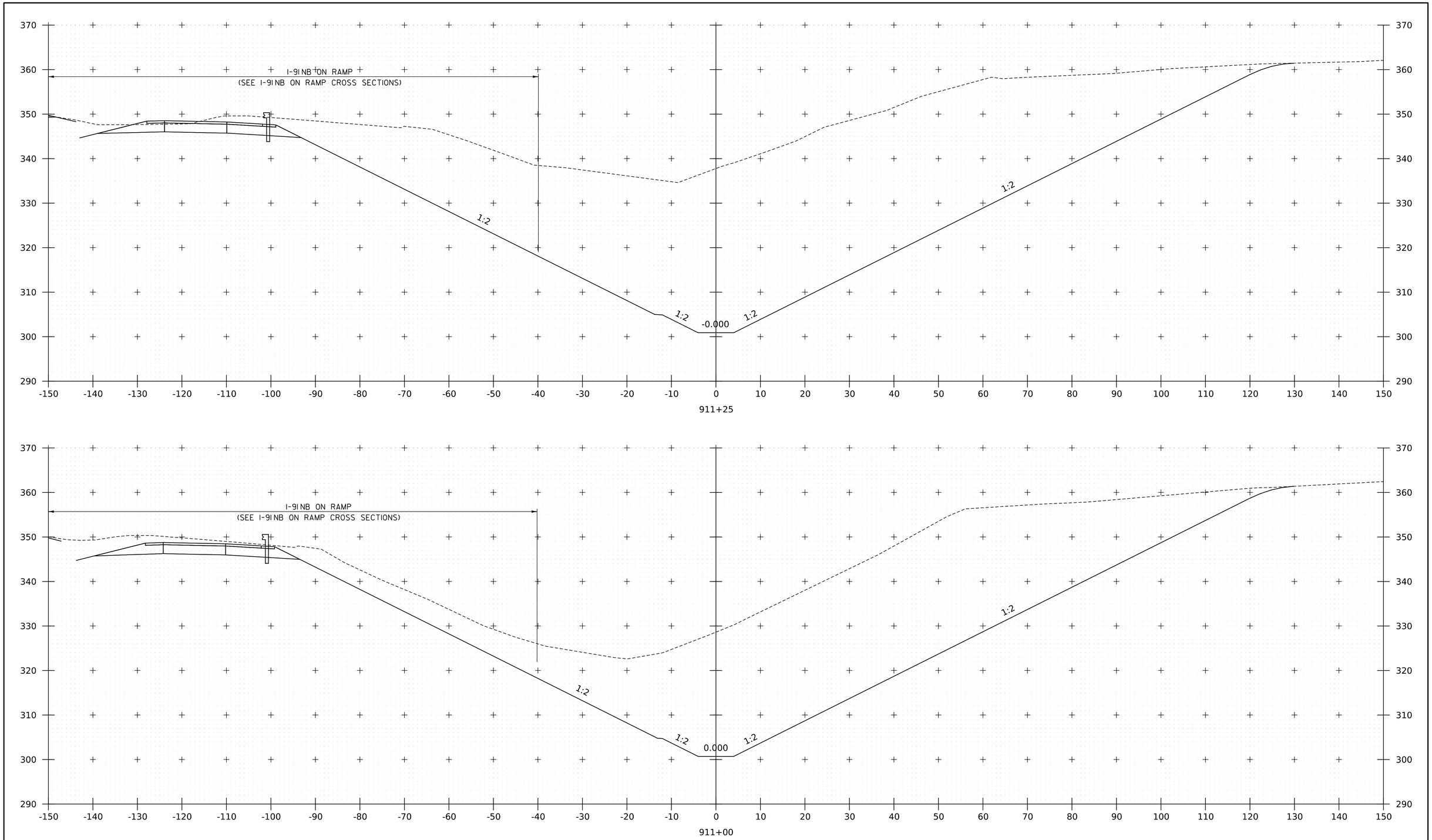
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 14	SHEET 385 OF 395

HNTB



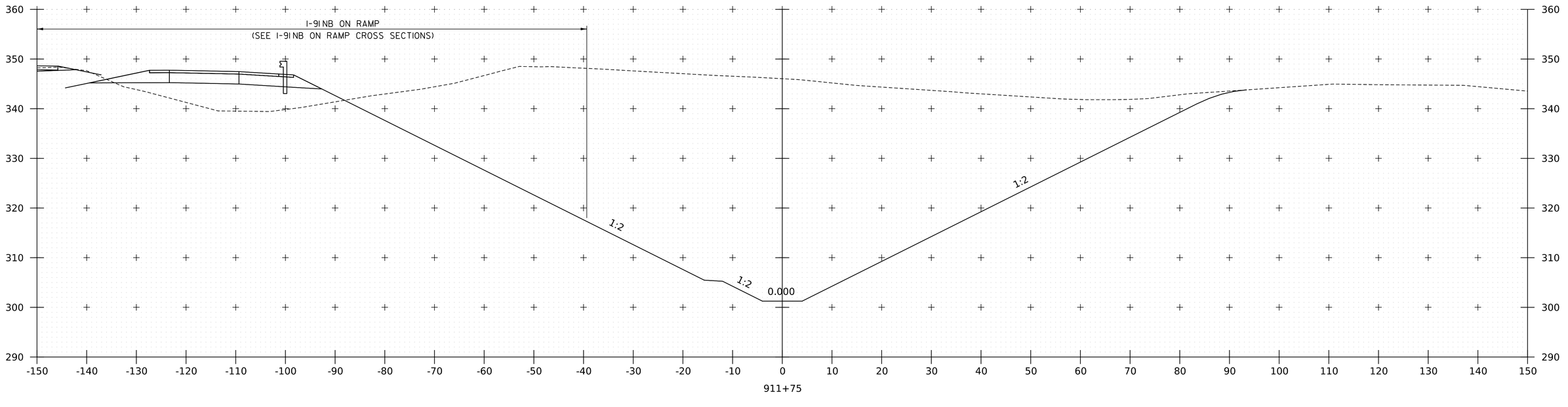
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 15	SHEET 386 OF 395

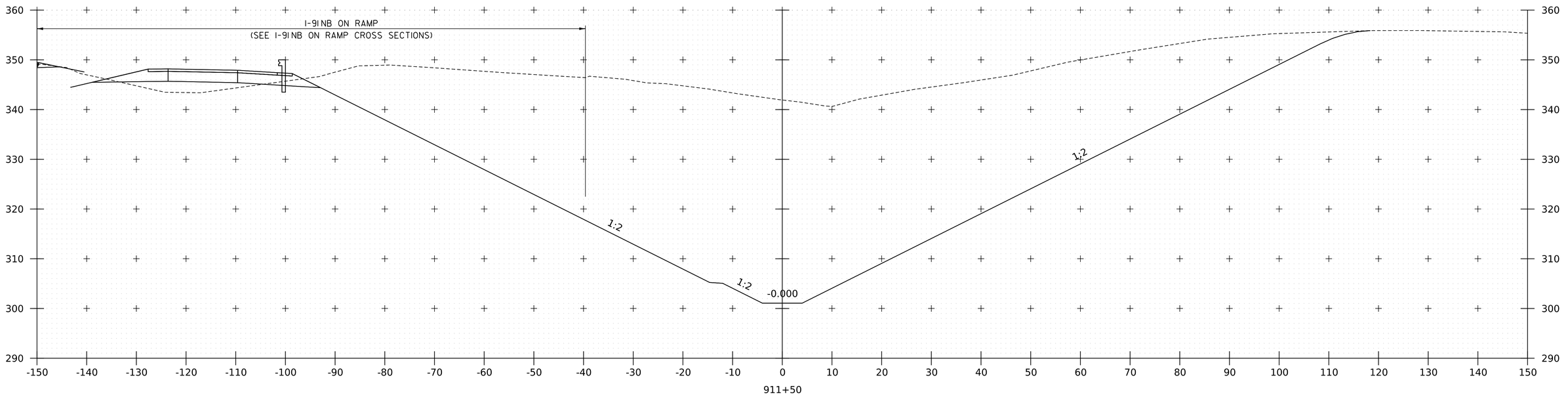
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 16	SHEET 387 OF 395

HNTB

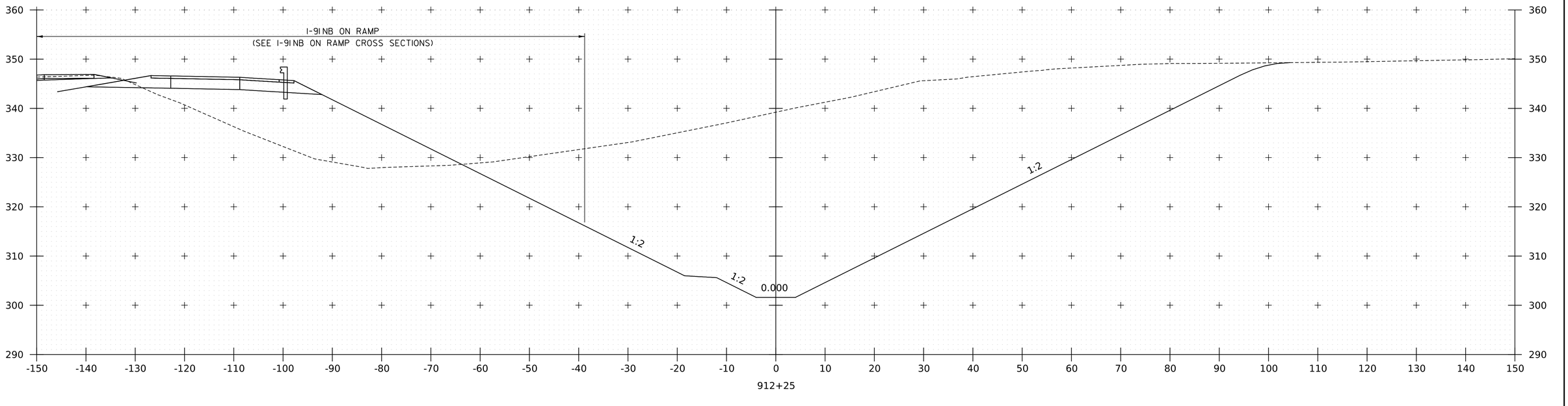


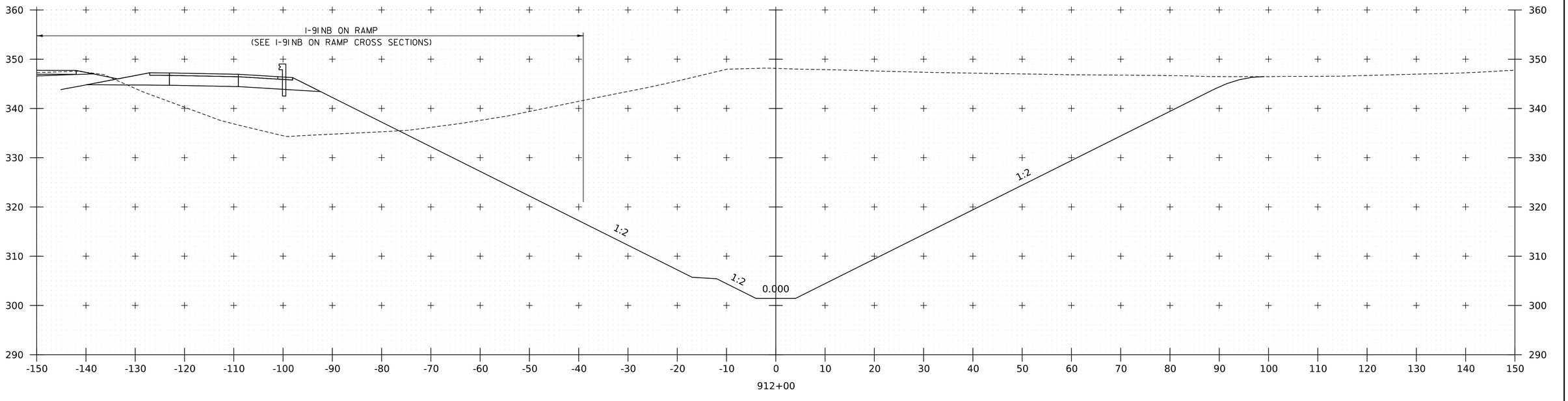


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: zl2a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 17	SHEET 388 OF 395

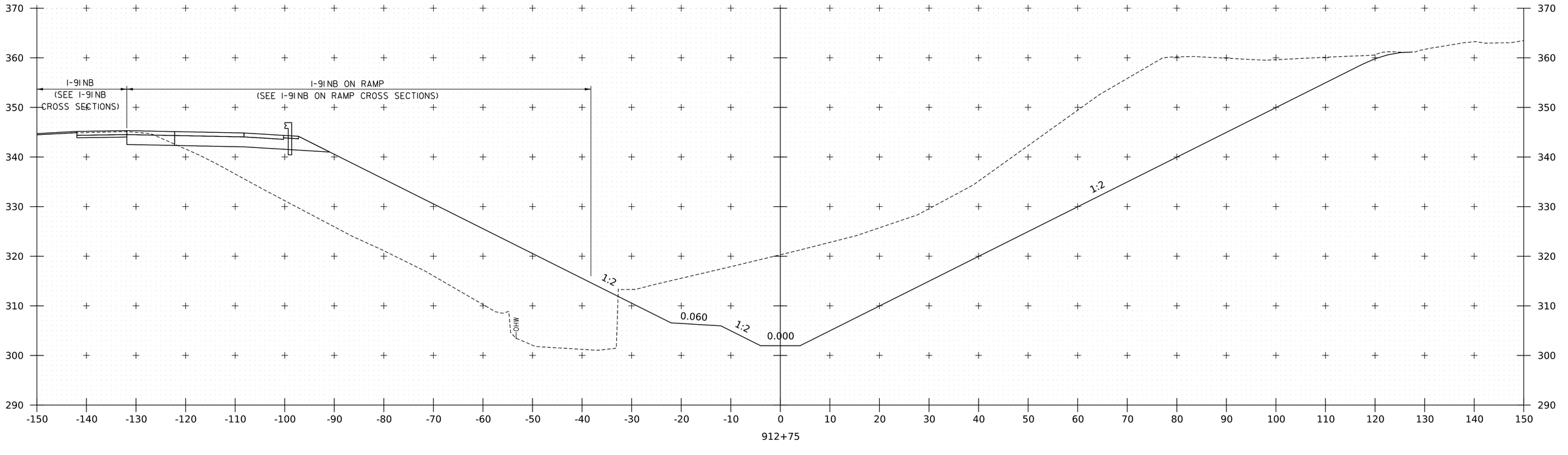
HNTB

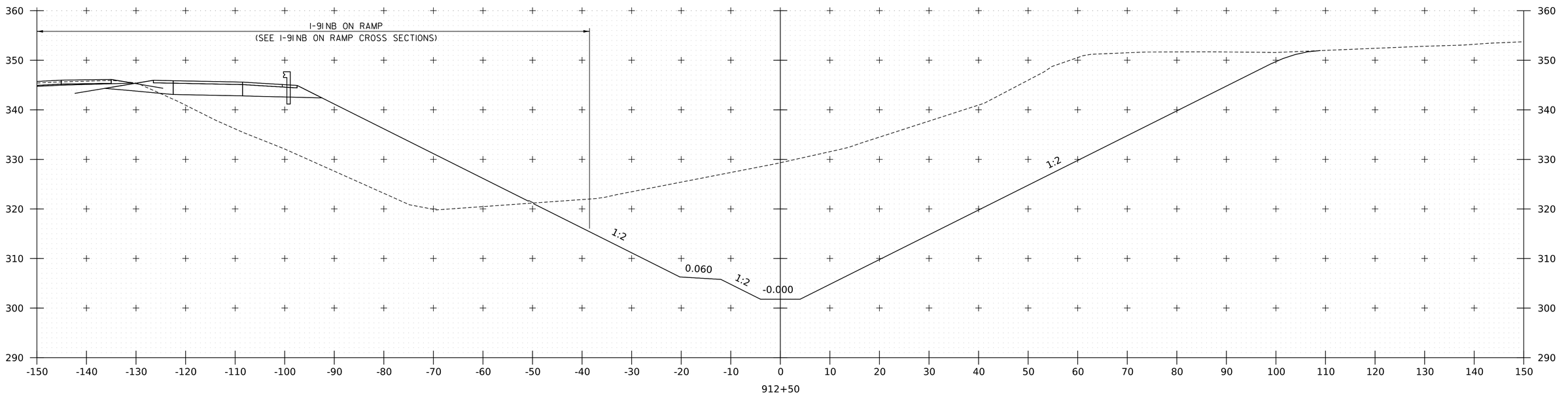




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: zl2a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 18	SHEET 389 OF 395

HNTB





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SPENCER BROOK CHANNEL SECTIONS 19	SHEET 390 OF 395

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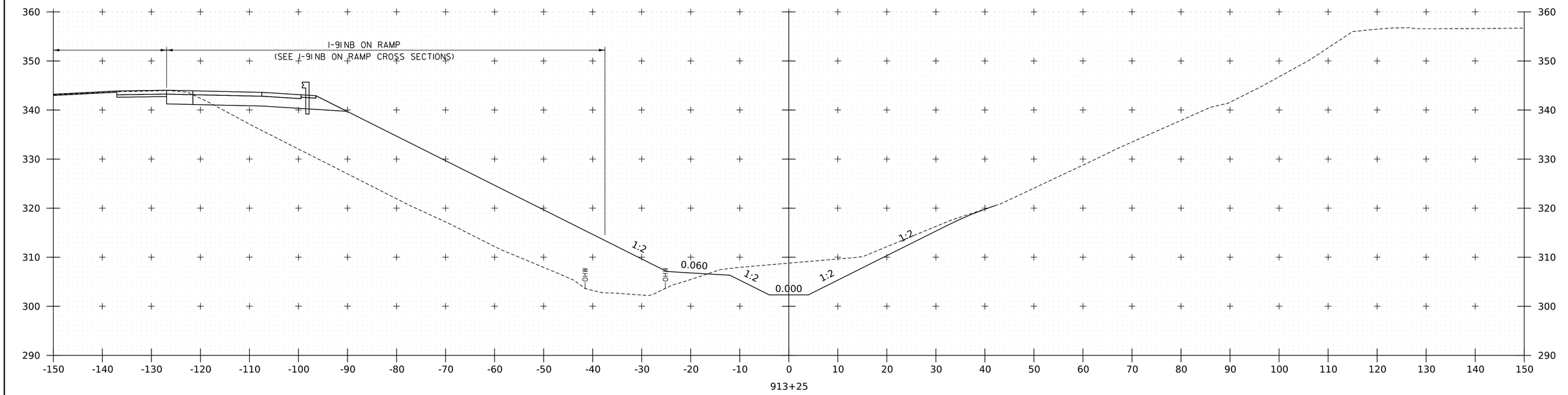

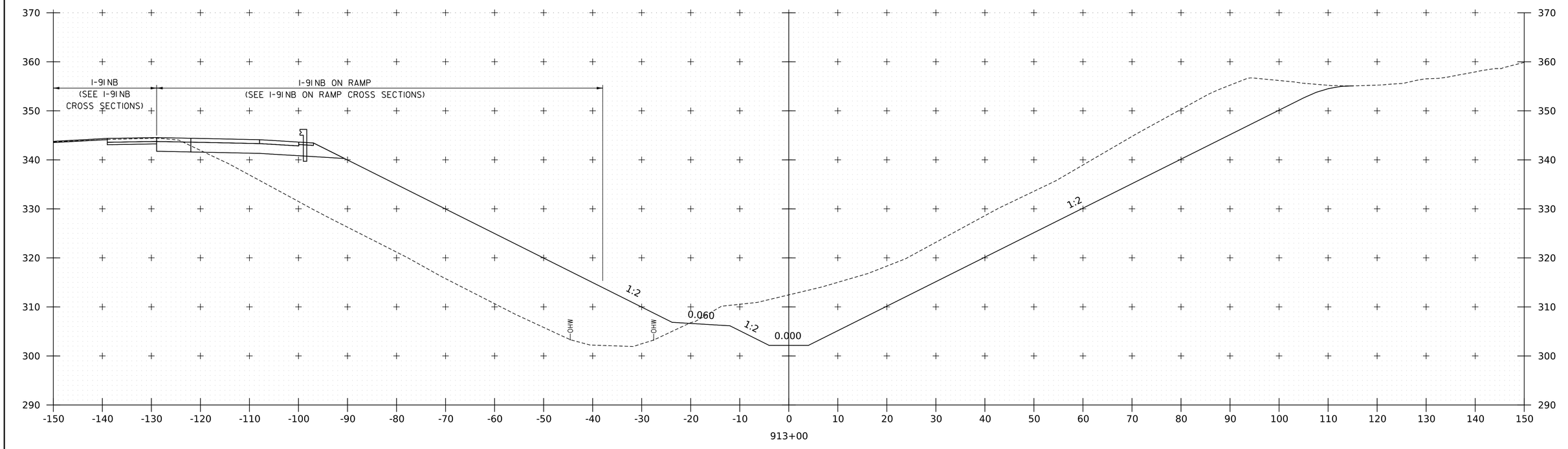

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SPENCER BROOK CHANNEL SECTIONS 20	SHEET 391 OF 395

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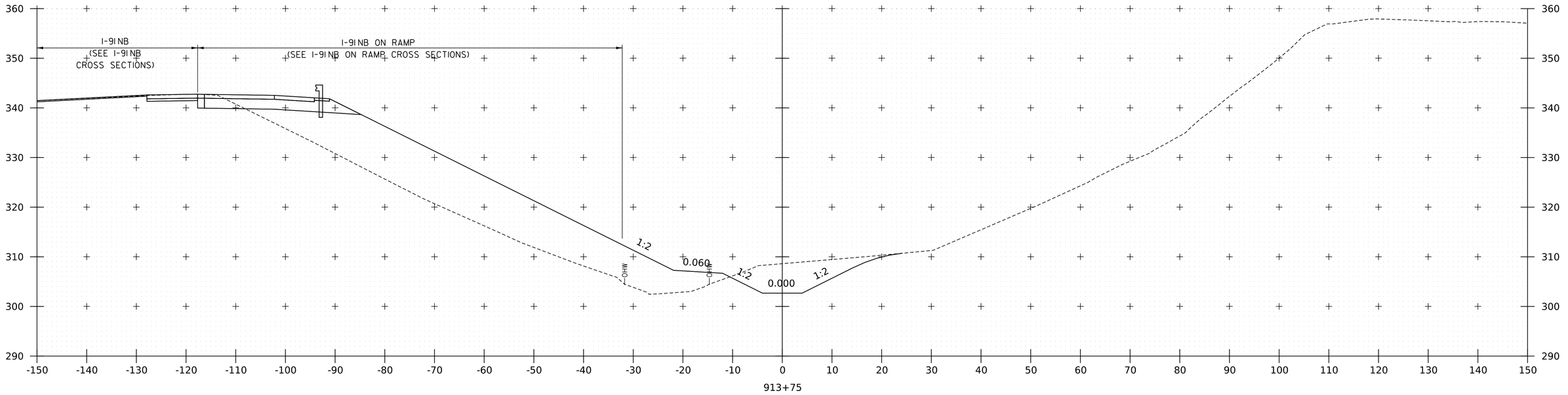

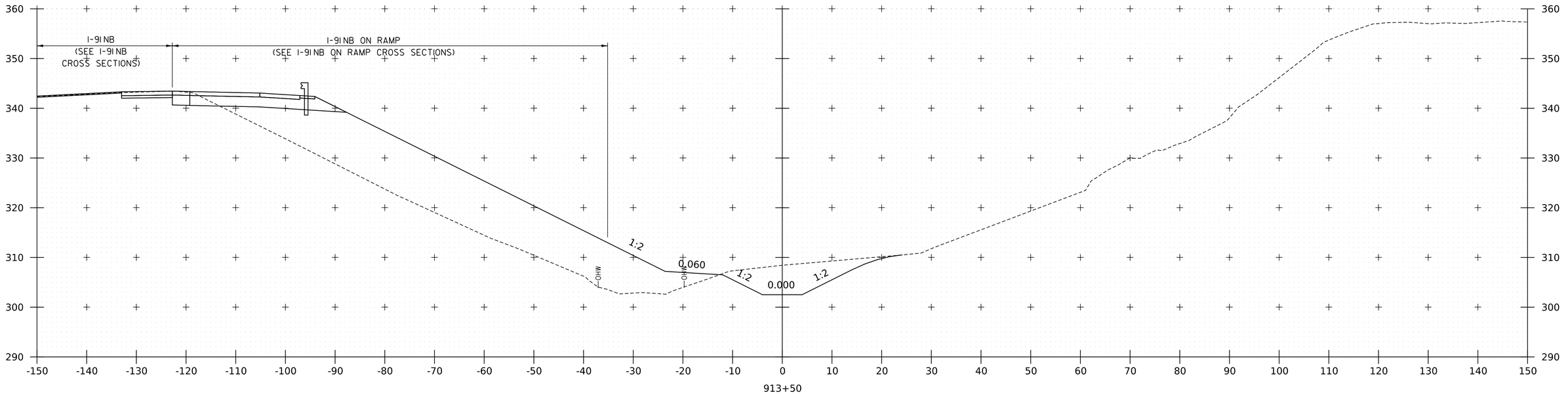

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SPENCER BROOK CHANNEL SECTIONS 21	SHEET 392 OF 395

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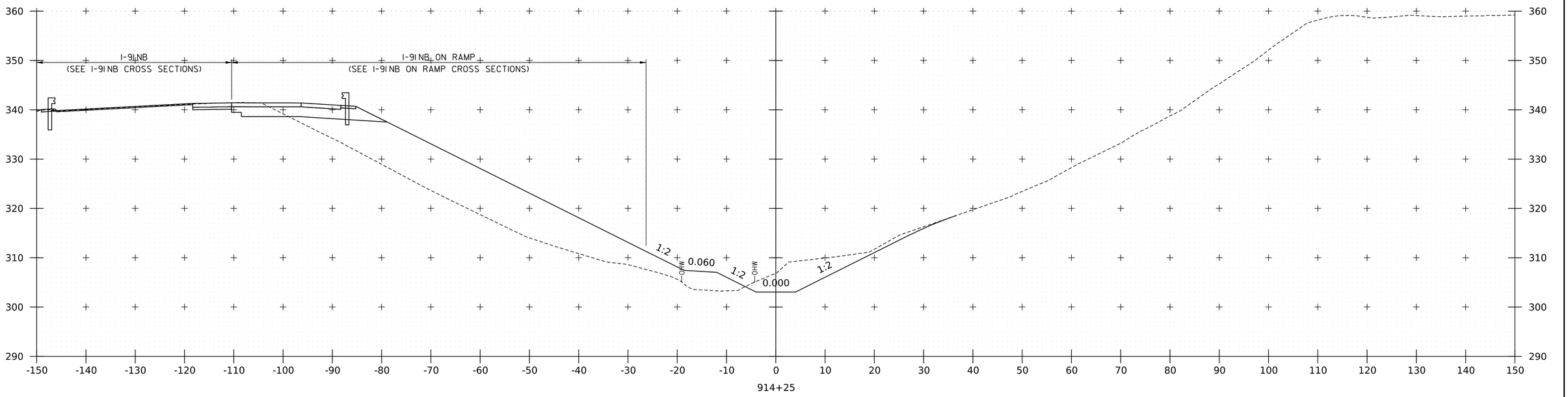

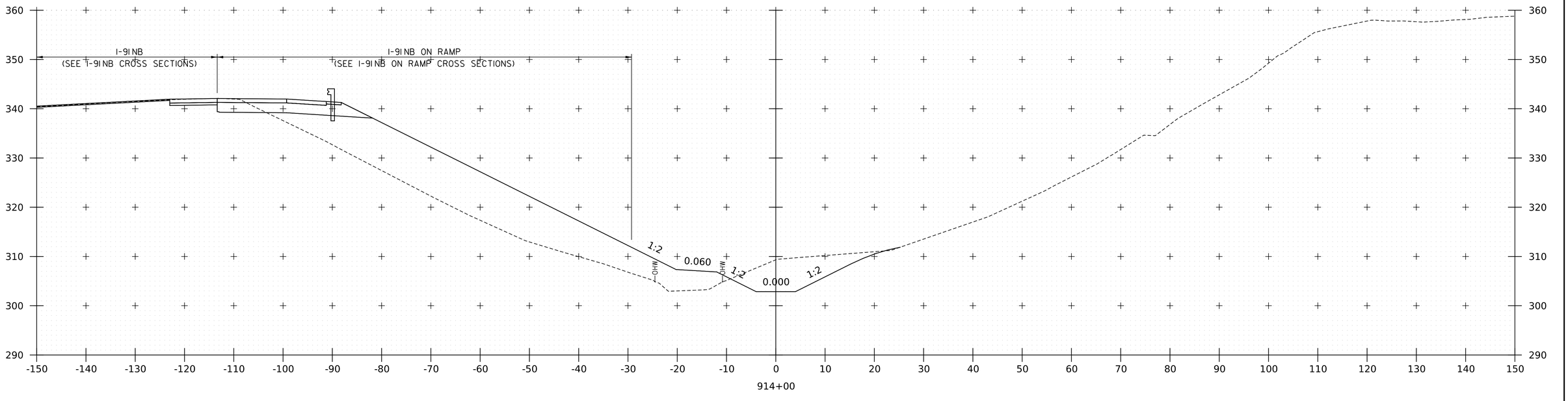

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Spencer_Brook.dgn	PLOT DATE: 28-SEP-2022
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 22	SHEET 393 OF 395

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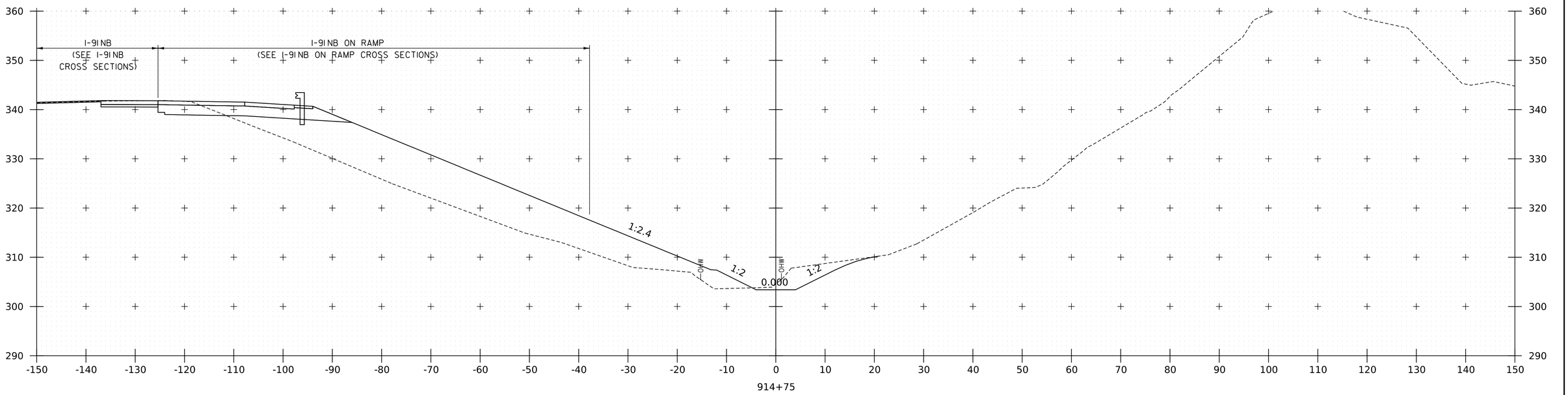

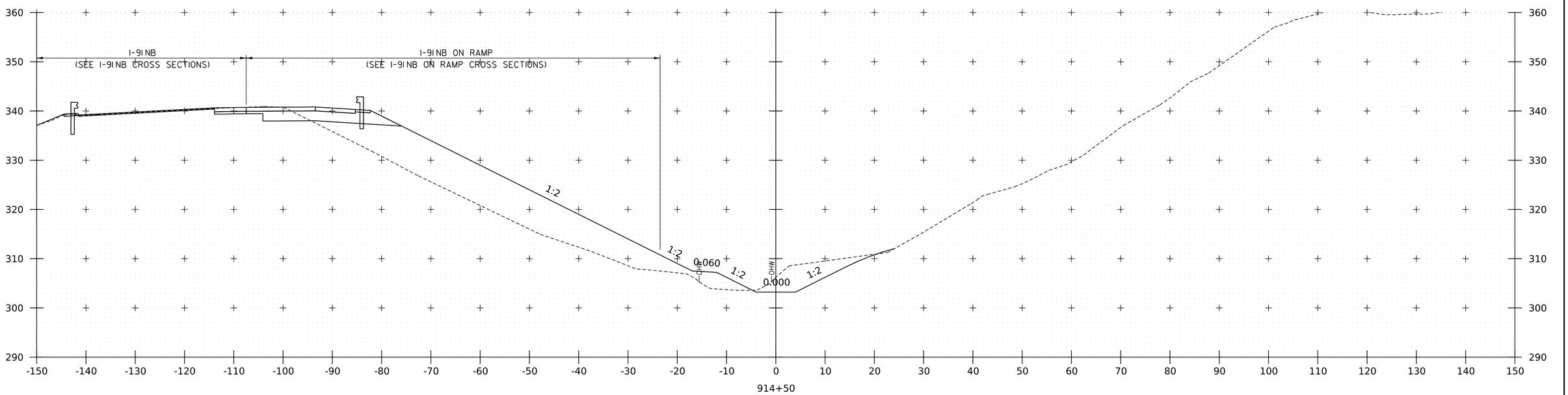

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SPENCER BROOK CHANNEL SECTIONS 23	SHEET 394 OF 395

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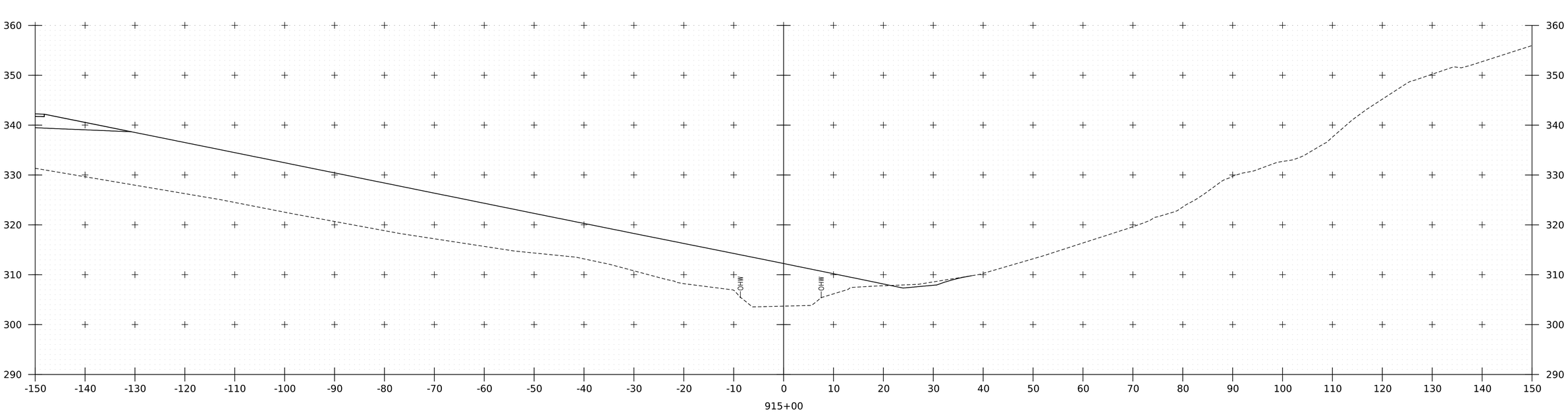

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SPENCER BROOK CHANNEL SECTIONS 24	SHEET 395 OF 395

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