

REVIEWER NOTES

1. RIGHT OF WAY SHOULD NOT BE REQUIRED
2. TWO STAGE CONSTRUCTION WITH INTERSTATE CROSS OVERS TO THE ALTERNATE DIRECTION BRIDGE AS THE DETOUR FOR EACH STAGE.
3. PLANS SHOW STAGE 1 AS SOUTH BOUND BRIDGE CLOSURE WITH DETOUR ON NORTH BOUND BRIDGE AND STAGE 2 AS THE NORTH BOUND CLOSURE WITH DETOUR ON SOUTH BOUND BRIDGE. THE STAGE 1 STAGE 2 CLOSURE SEQUENCE MAY BE ALTERED TO FACILITATE FINAL DESIGN OR DETOUR LOGISTICAL CONSTRUCTION MEANS AND METHODS. FINAL DESIGN ENGINEERING TO INVESTIGATE STAGE SEQUENCING ISSUES.
4. THERE IS NO ROADWAY WORK OR IMPROVEMENTS ANTICIPATED FOR THIS PROJECT.
5. PROJECT DESCRIPTION IS COPIED VERBATIM FROM THE VPINS DATA BASE PER STANDARD PROCEDURE.
6. FOR ADDITIONAL PROJECT INFORMATION, STUDIES AND REPORTS GO TO THE AGENCY PROJECT SHARE POINT SITE, LINK -> 13a130

STATE OF VERMONT

AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

BRIDGE PROJECT

TOWN OF ROCKINGHAM

COUNTY OF WINDHAM

ROUTE NO : INTERSTATE 91, BRIDGE 24N AND 24S

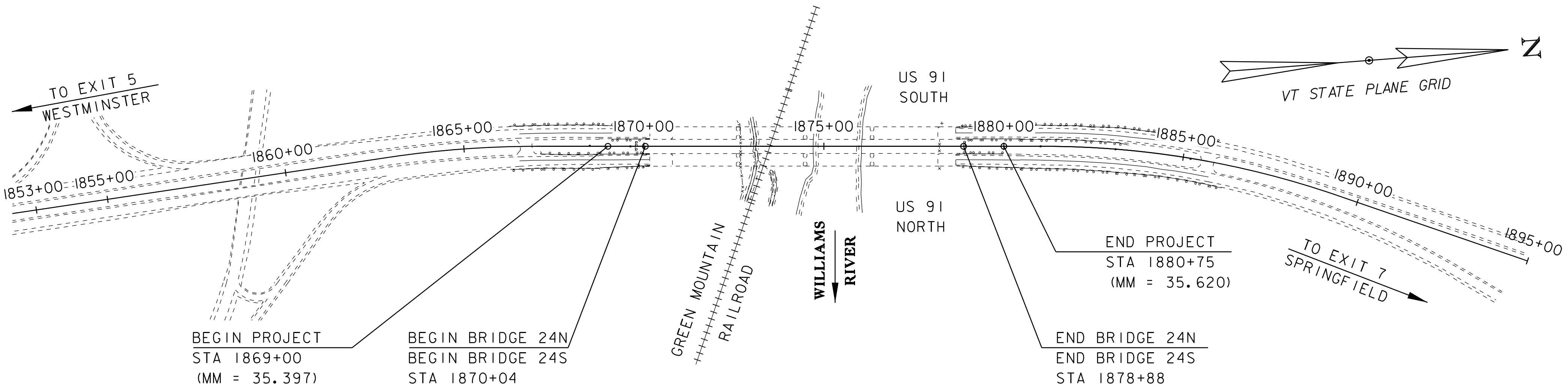
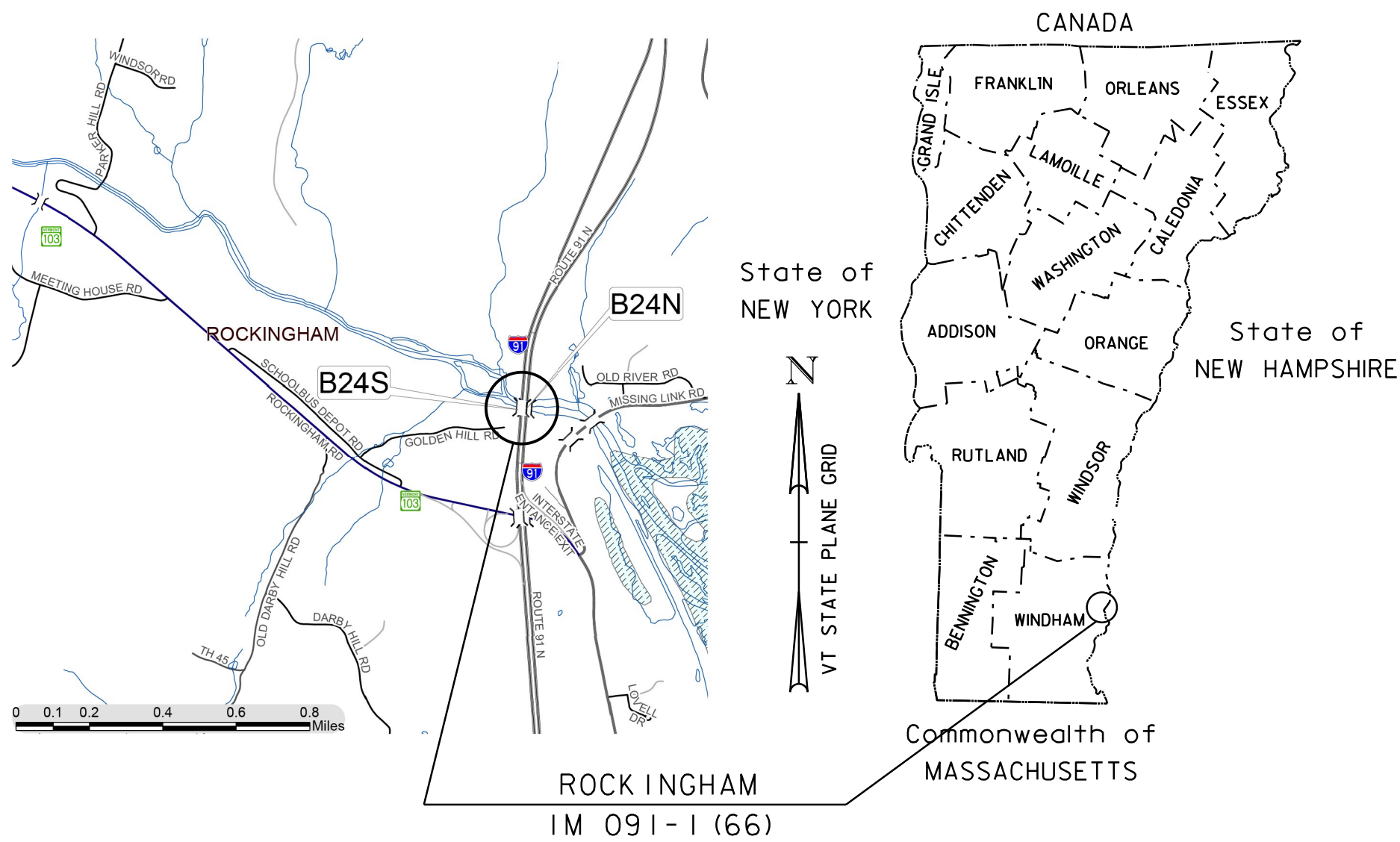
PROJECT LOCATION: APPROXIMATELY 0.313 MILES NORTH OF INTERSTATE 91 EXIT 6 ROCKINGHAM

PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NUMBER(S) 24 N&S ON I-91 IN ROCKINGHAM, OVER THE GREEN MOUNTAIN RAILROAD AND THE WILLIAMS RIVER.

LENGTH OF STRUCTURE: 884.0 FEET

LENGTH OF ROADWAY: 291.0 FEET

LENGTH OF PROJECT: 1175.0 FEET



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 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 1	
SURVEYED BY :	R. GILMAN
SURVEYED DATE :	04-22-2013
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (2011)

CONCEPTUAL PLANS

02-SEP-2015

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATOR	
APPROVED _____	DATE _____
DIRECTOR OF PROJECT DELIVERY	
APPROVED _____	DATE _____
PROJECT MANAGER : DOUGLAS BONNEAU, P. E.	
PROJECT NAME : ROCK INGHAM	
PROJECT NUMBER : IM 091-1 (66)	
SHEET 1	OF 33 SHEETS

PLAN SHEET INDEX	
1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET
3	ROADWAY TYPICAL
4	BRIDGE TYPICALS
5	BRIDGE DETOUR TYPICALS
6 - 8	LAYOUT SHEET 1-3
9	SB & NB PROPOSED PROFILES
10	BRIDGE PLAN
11	BORING LAYOUT
12 - 19	STAGE 1 SB CROSS OVER LAYOUT 1-8
20	STAGE 2 NB RAMP CLOSURE LAYOUT
21 - 27	STAGE 2 NB CROSS OVER LAYOUT 1-7
28	SB COSS OVER PROFILES
29	NB COSS OVER PROFILES
30 - 31	I91 NB CROSS SECTIONS 1-2
32 - 33	I91 SB CROSS SECTIONS 1-2

BRIDGE 24N TRAFFIC DATA						
YEAR	ADT	DHV	% D	% T	ADTT	20 year ESAL for flexible pavement from 2017 to 2027 : 3159000
2017	6900	1200	100	11.7	900	40 year ESAL for flexible pavement from 2017 to 2037 : 9460000
2027	7000	1200	100	14.5	1100	Design Speed : 65 mph

BRIDGE 24S TRAFFIC DATA						
YEAR	ADT	DHV	% D	% T	ADTT	20 year ESAL for flexible pavement from 2017 to 2027 : 4189000
2017	6900	1500	100	9.8	1100	40 year ESAL for flexible pavement from 2017 to 2037 : 9460000
2027	7000	1500	100	11.8	1400	Design Speed : 65 mph

PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 09I-I(66)	
FILE NAME: sl2al30p1	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
PRELIMINARY INFORMATION SHEET	SHEET 2 OF 33



SCALE: $\frac{1}{4}'' = 1' - 0''$

NOTES:

1. PAVEMENT DESIGN SHOWN IS THE MINIMUM DESIGN FOR FULL DEPTH CONSTRUCTION OF APPROACHES. DESIGN-BUILDER MAY DESIGN AN ALTERNATIVE PAVEMENT SECTION PROVIDED IT IS REVIEWED AND APPROVED BY VERMONT AGENCY OF TRANSPORTATION.
2. TYPICAL SECTION PROVIDED DOES NOT ADDRESS ALL POTENTIAL SCENARIOS. DESIGN BUILD ENTITY SHALL CONSIDER ALL POTENTIAL SCENARIOS IN THEIR PROPOSED DESIGN.
3. ROADSIDE BARRIER SHOWN FOR GRAPHICAL REPRESENTATION ONLY. ACTUAL ROADSIDE BARRIER SYSTEM TO BE DETERMINED BY CONTRACTOR WITH OPENINGS FOR DRAINAGE PROVIDED AND MEETING NCHRP REPORT 350 CRASH TEST LEVEL 4 (TL-4) RATING.

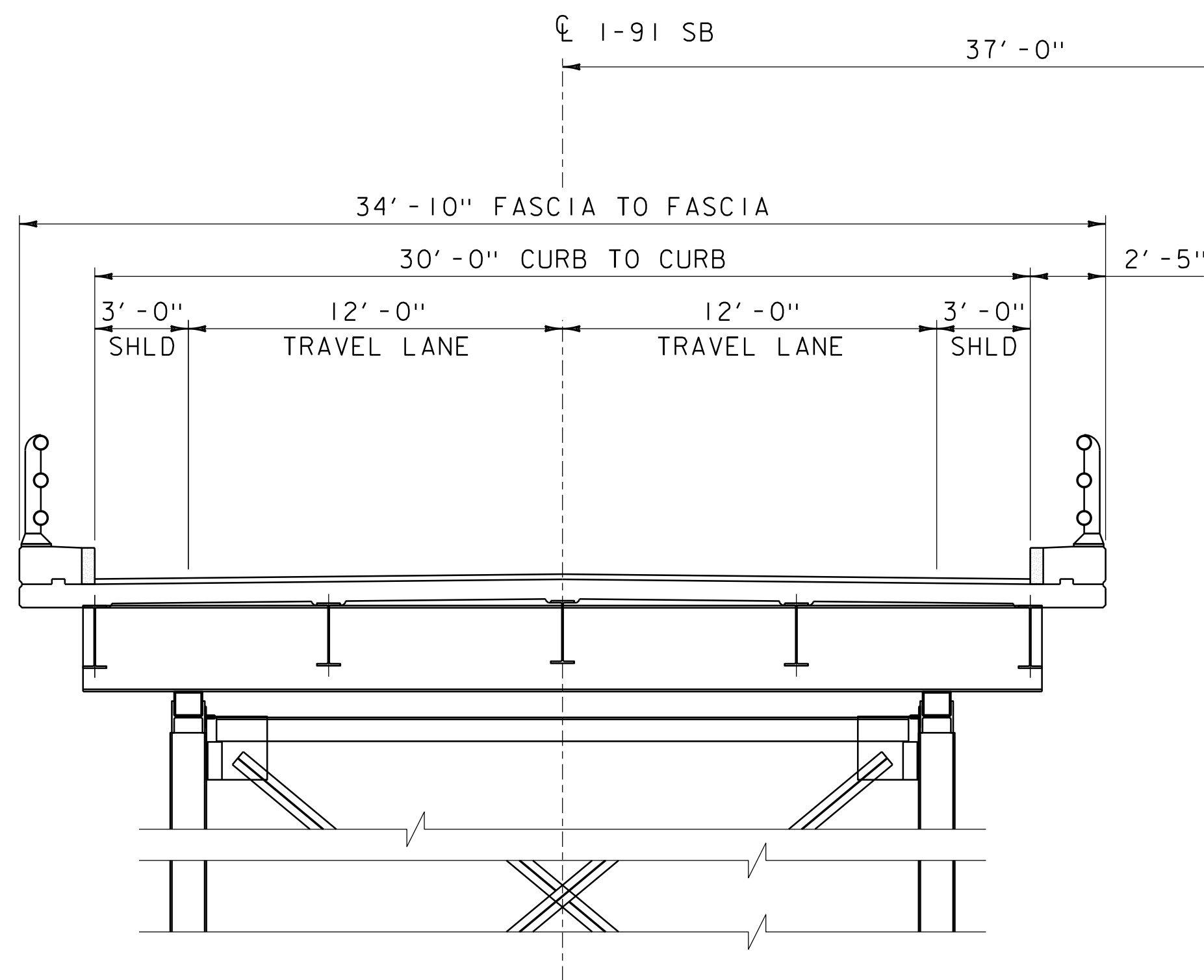
- 1.75" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS WEARING COURSE) (SEE NOTE 1)
- 3.5" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS INTERMEDIATE LAYER) (SEE NOTE 1)
- 3.5" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS BASE COURSE) (SEE NOTE 1)
- 3.5" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS BASE COURSE) (SEE NOTE 1)
- 24" SUBBASE OF DENSE GRADED CRUSHED STONE (SEE NOTE 1)
- 18" SAND BORROW OR SUBBASE OF DENSE GRADED CRUSHED STONE (SEE NOTE 1)
- * TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.025 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.
- ** FOR PG GRADE SEE SECTION 490 OF THE GENERAL SPECIAL PROVISIONS.

MATERIAL TOLERANCES

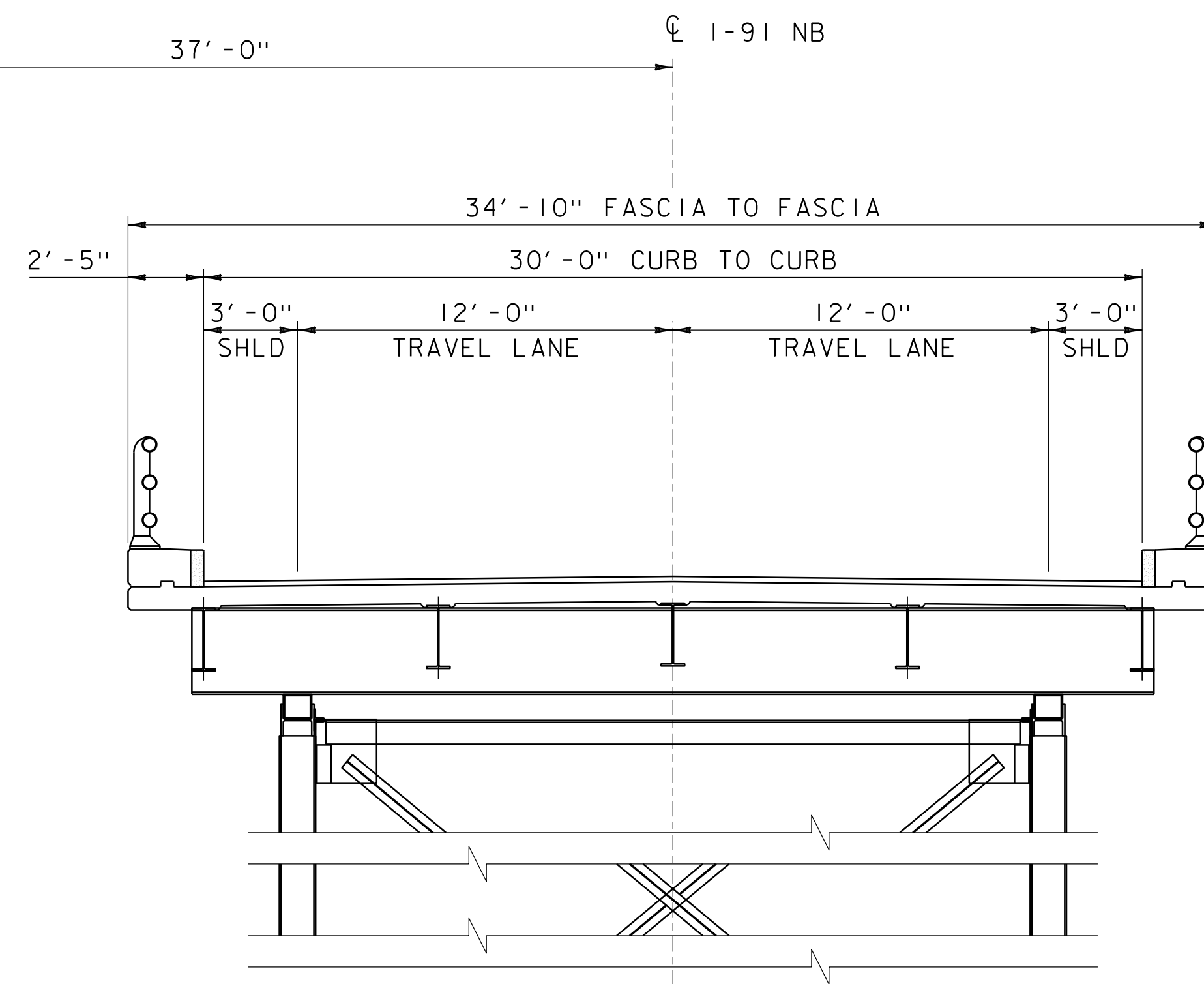
(IF USED ON PROJECT)

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

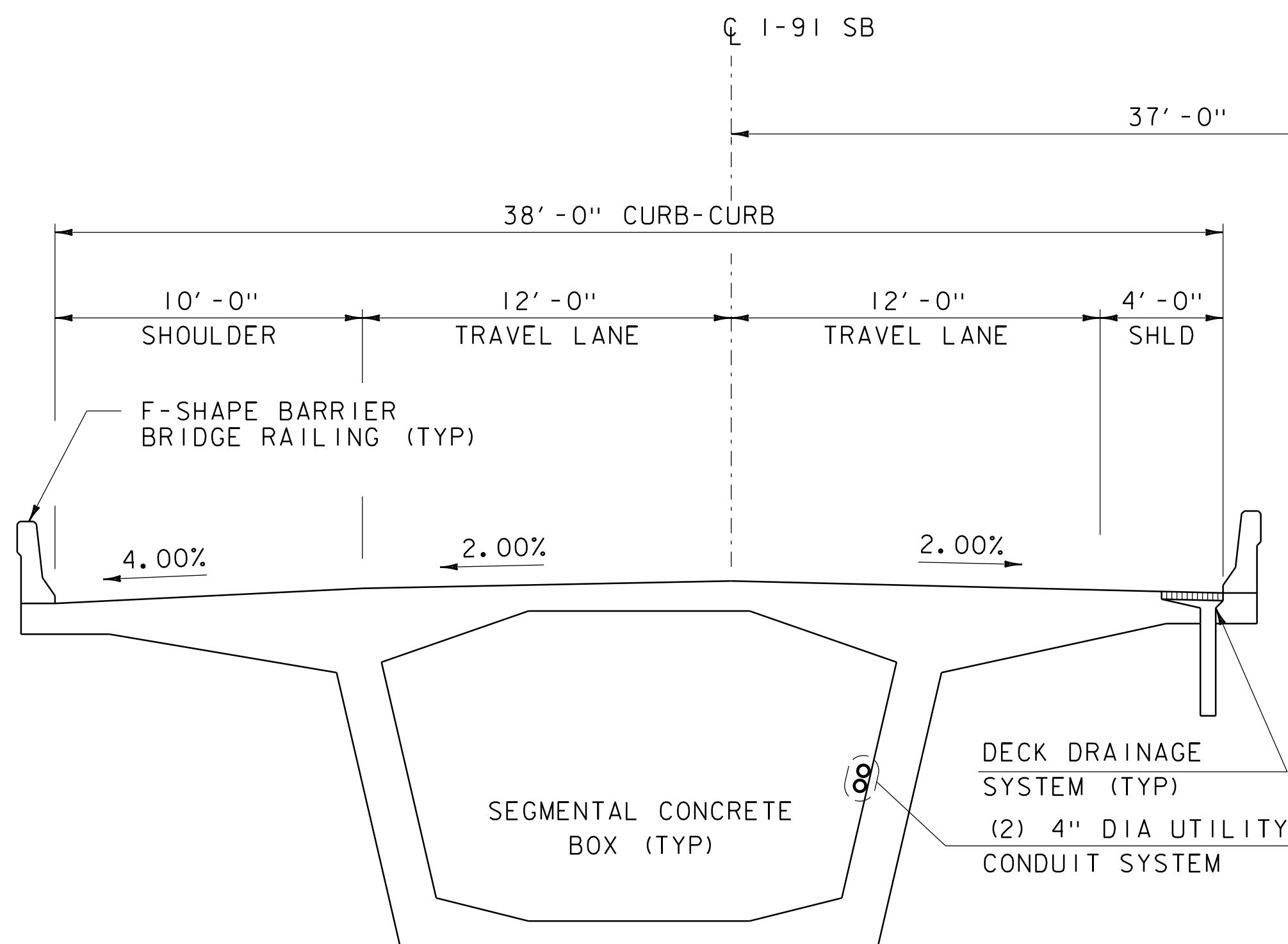
PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-1(66)	
FILE NAME: si2a130+yp.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
ROADWAY TYPICAL	SHEET \$S•\$ OF \$T•\$



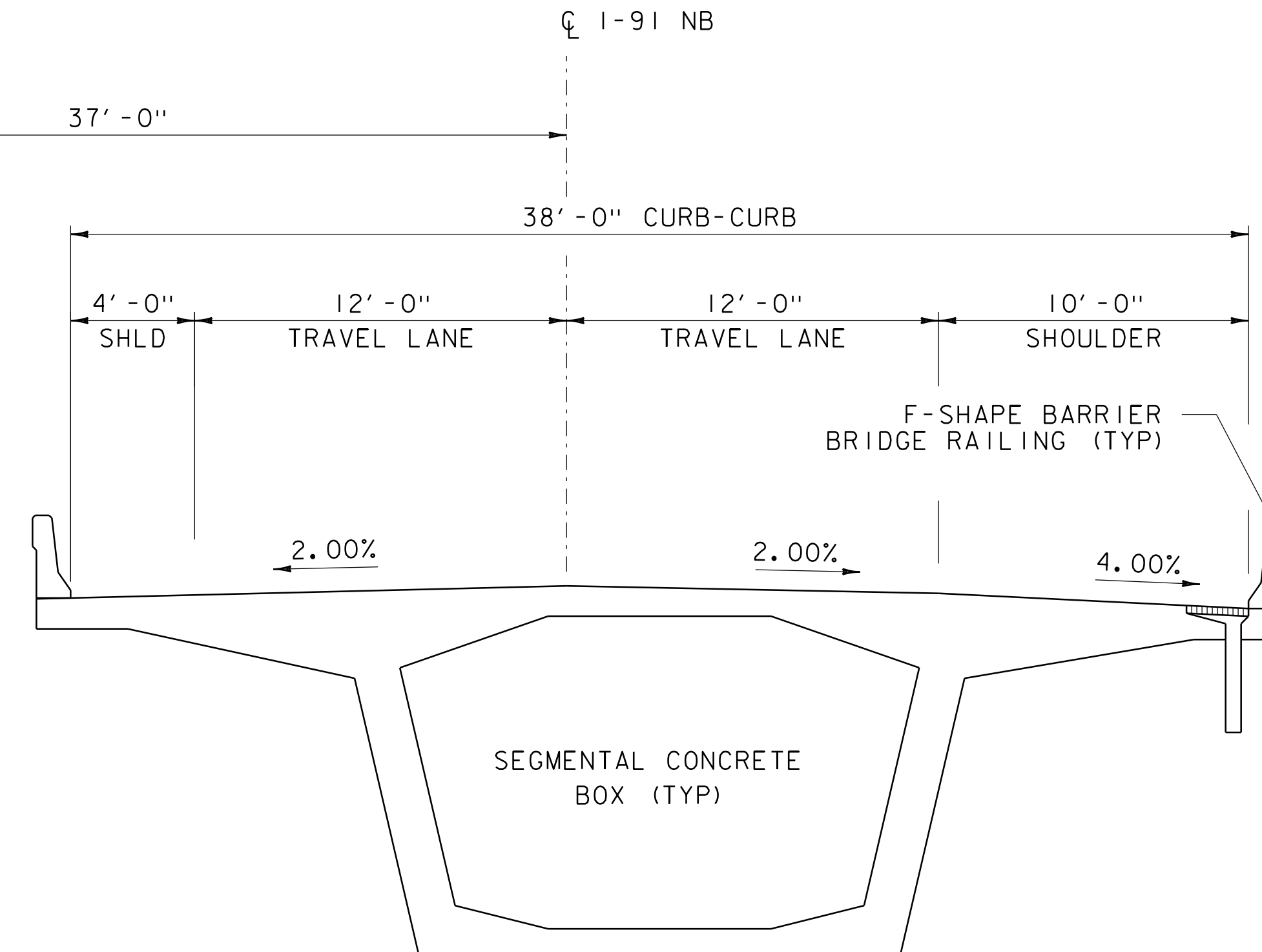
EXISTING I-91 SB BRIDGE TYPICAL
SCALE: 1/4" = 1'-0"



EXISTING I-91 NB BRIDGE TYPICAL
SCALE: 1/4" = 1'-0"

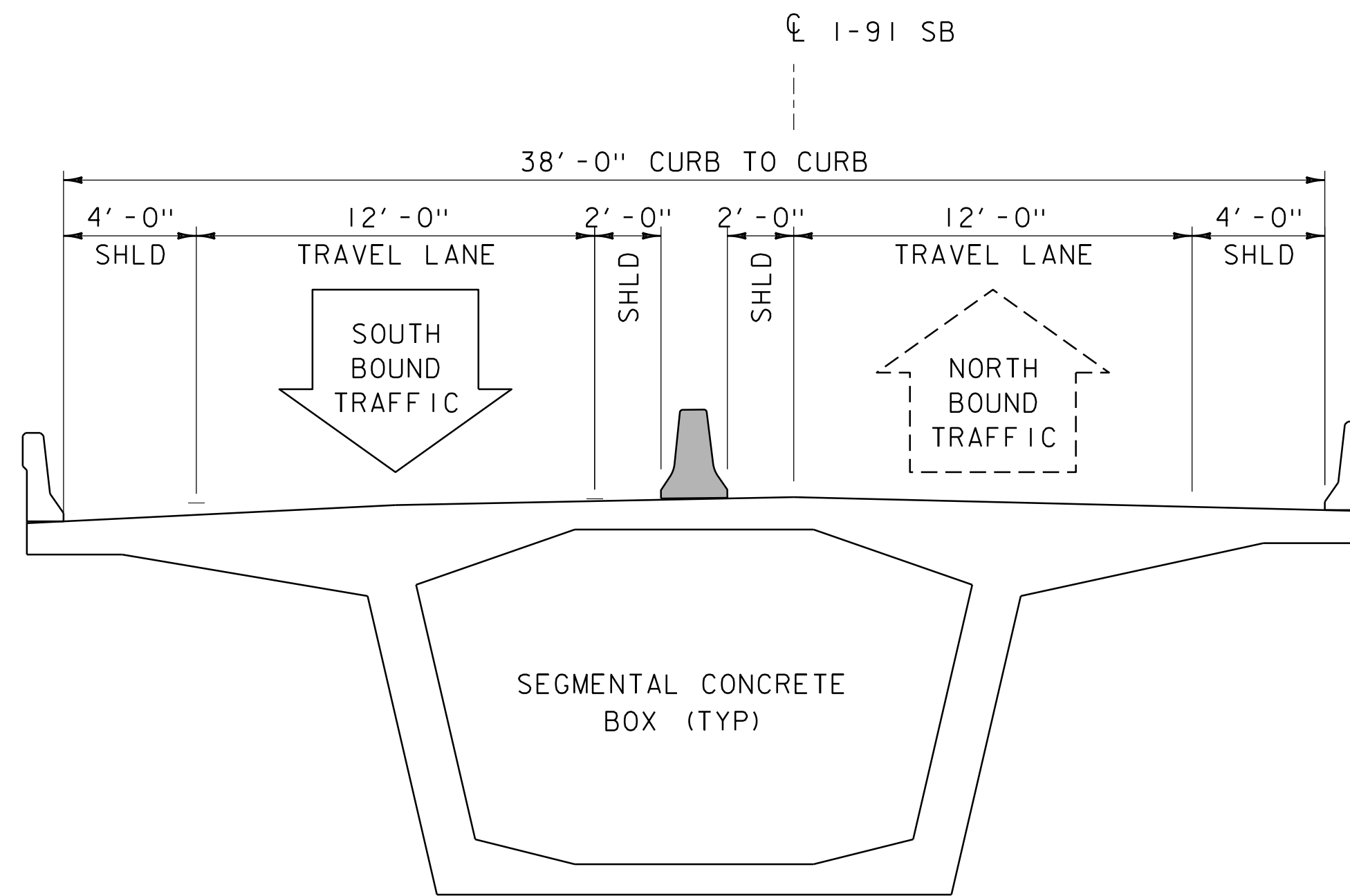


PROPOSED I-91 SB BRIDGE TYPICAL
SCALE: 1/4" = 1'-0"



PROPOSED I-91 NB BRIDGE TYPICAL
SCALE: 1/4" = 1'-0"

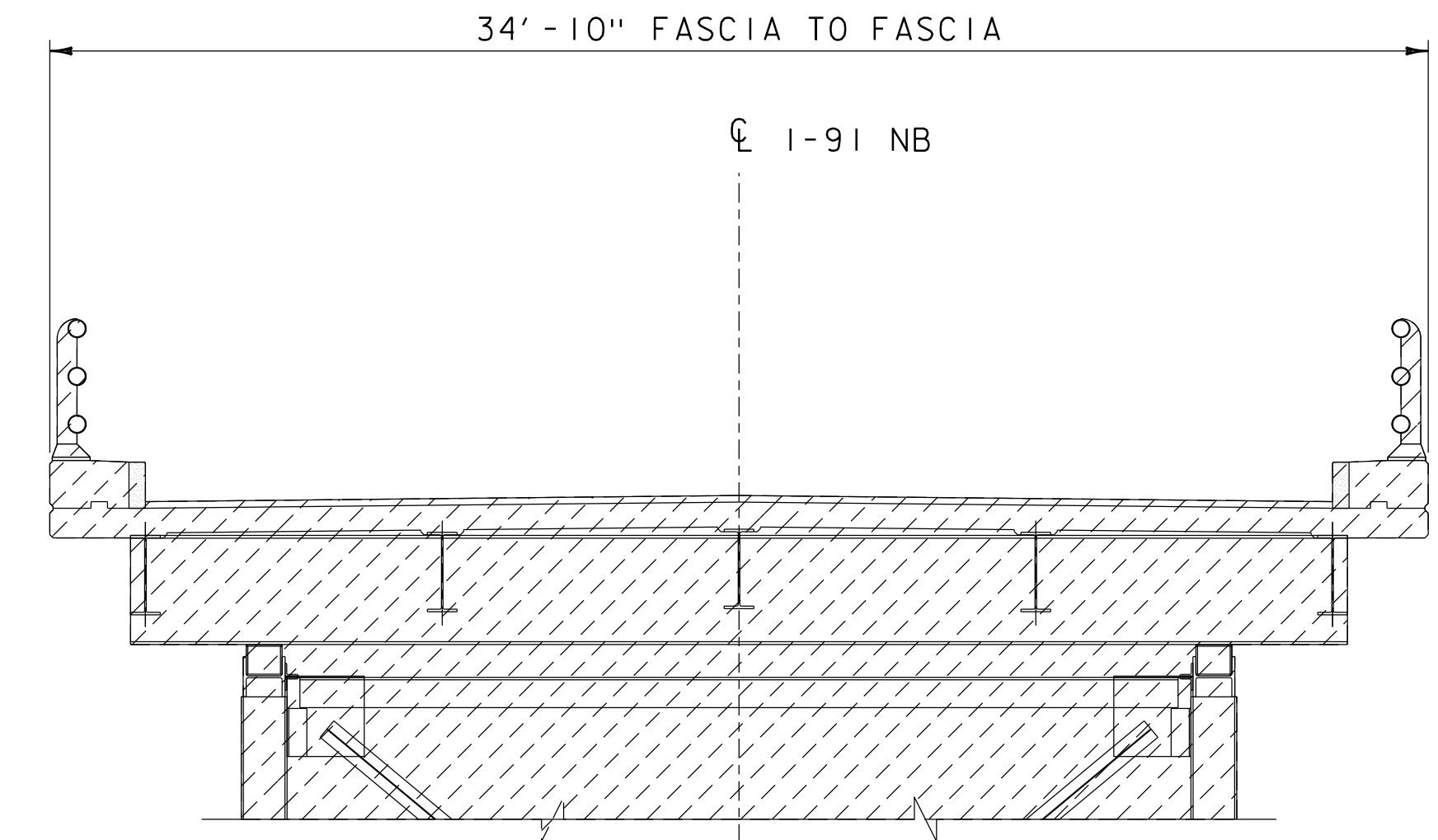
PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-I(66)	
FILE NAME: sl2al30+yp.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
BRIDGE TYPICALS	SHEET 4 OF 33



STAGE 2 NB DETOUR ON PROPOSED I-91 SB BRIDGE

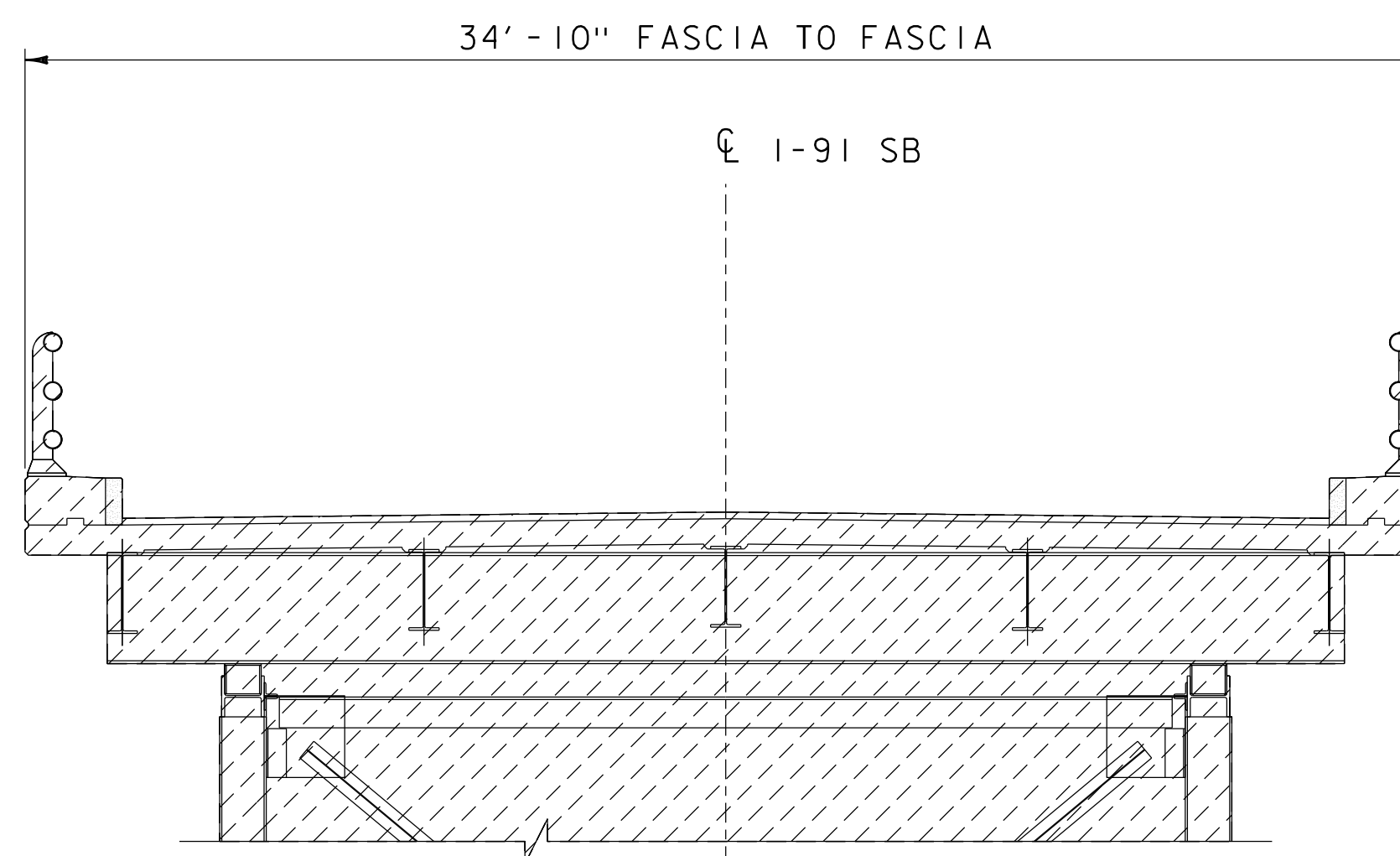
SCALE: 1/4" = 1'-0"

APPROXIMATE HISTORIC
BASELINE GEOMETRY



STAGE 2 NB BRIDGE CONSTRUCTION

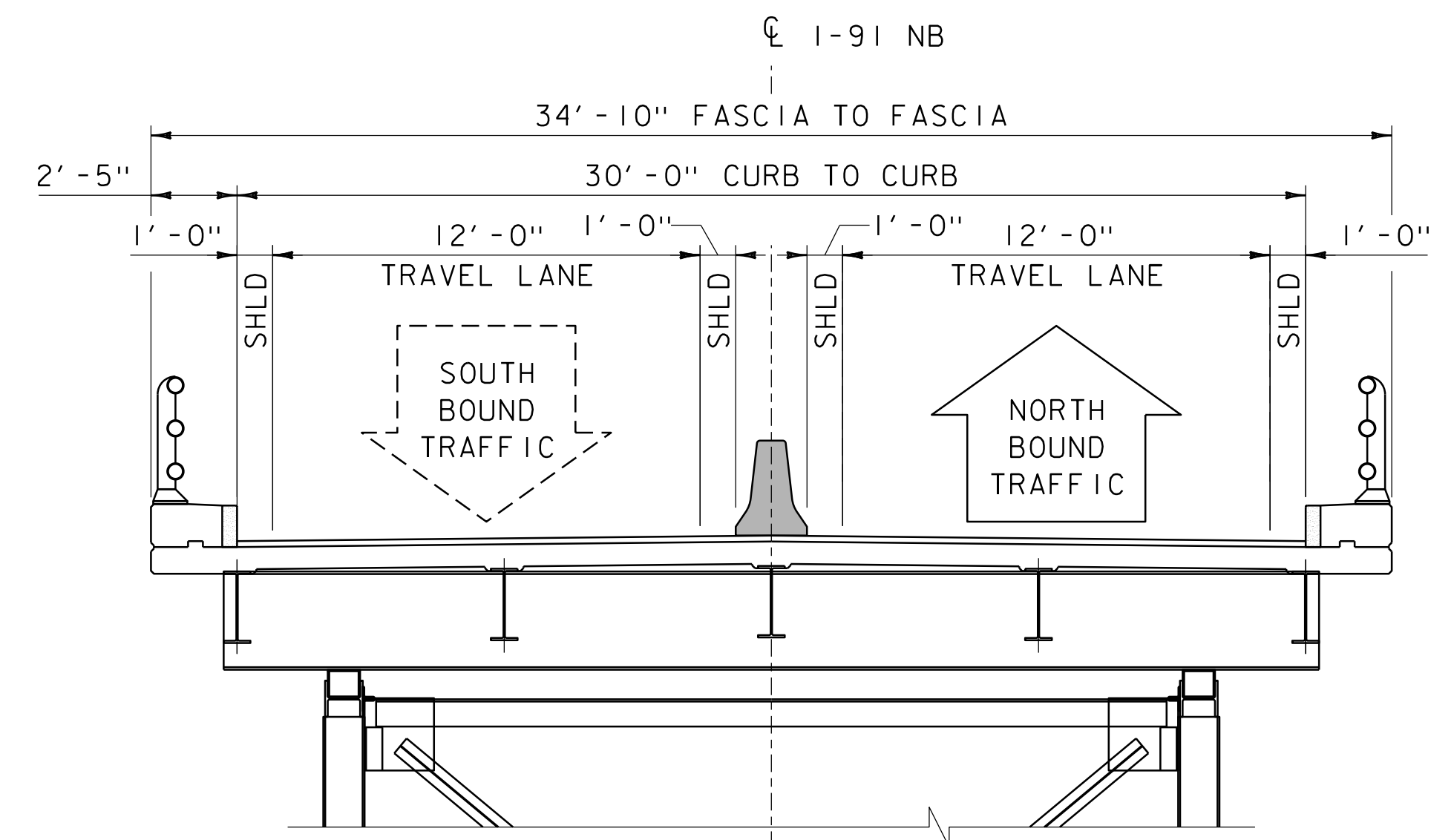
SCALE: 1/4" = 1'-0"



STAGE 1 SB BRIDGE CONSTRUCTION

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

APPROXIMATE HISTORIC
BASELINE GEOMETRY



STAGE 1 SB DETOUR ON EXISTING NB BRIDGE

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

PROJECT NAME: ROCKINGHAM
PROJECT NUMBER: IM 091-I(66)

FILE NAME: sl2al30+yp.dgn
PROJECT LEADER: D. BONNEAU
DESIGNED BY: D. PETERSON
BRIDGE DETOUR TYPICALS

PLOT DATE: 02-SEP-2015
DRAWN BY: M. LONGSTREET
CHECKED BY: D. PETERSON
SHEET 5 OF 33

BEGIN BRIDGE	
BASELINE STA	1870+04
BRIDGE 24N STA	270+04.00
BRIDGE 24S STA	170+04.00

MATCH INTO EXISTING
ROADSIDE BARRIER

ROADSIDE	BARRIER
TERMINAL	END

UTILITY
JUNCTION
BOX

(2) 4" DIA UTILITY
CONDUIT

SIGN HAZARD

100 HVCTRL

SIGN
BRIDGE 242

CONCEPTUAL
CONSTRUCTION
LIMITS (TYP)

MATCH INTO EXISTING
ROADSIDE BARRIER

POB
STA 1867+00.00

TEMPORARY
CONSTRUCTION
LIMITS (TYP)

US 91 SOUTH

US 91 NORTH

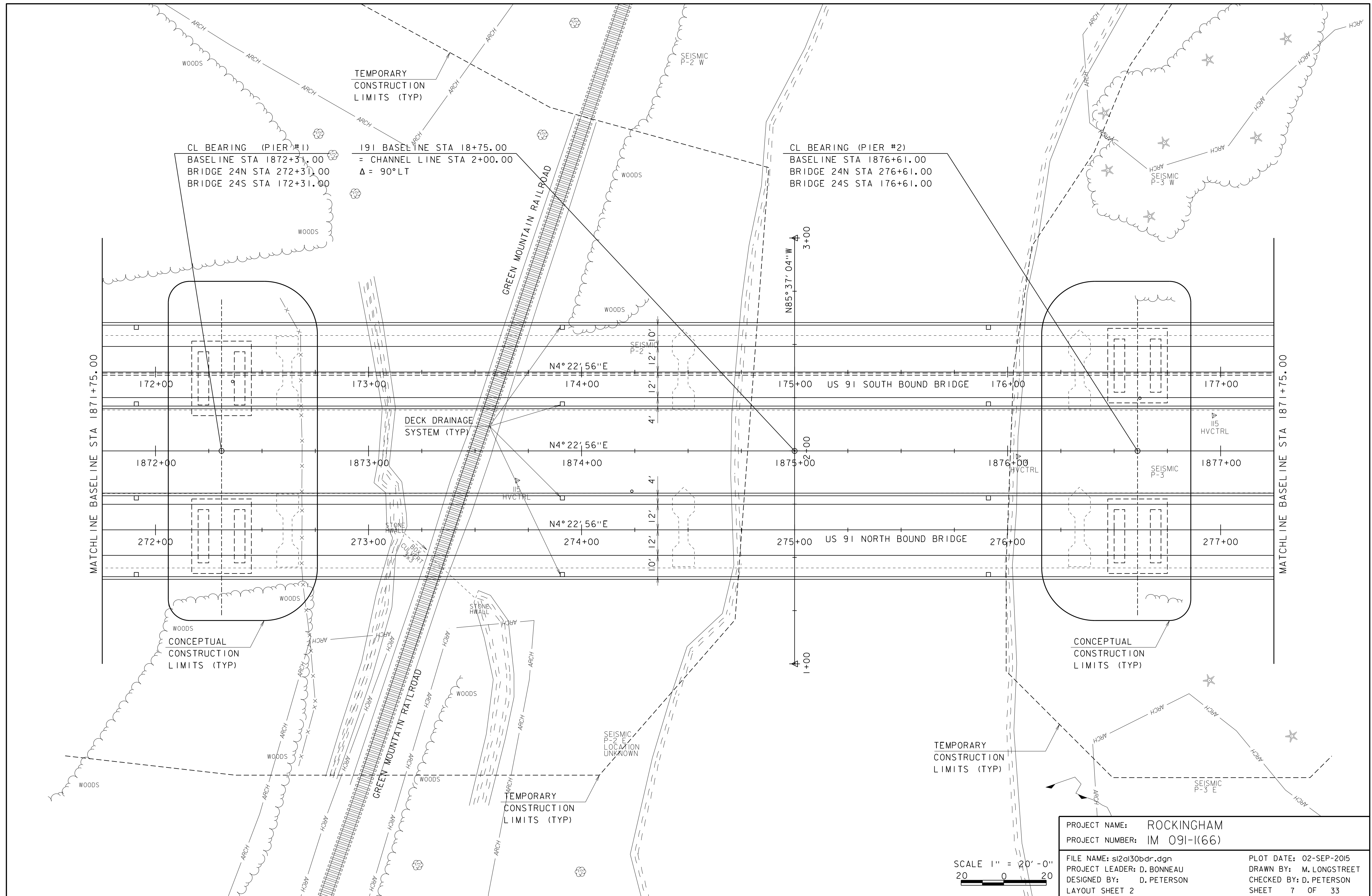
MATCHLINE BASELINE STA 1871+75.00

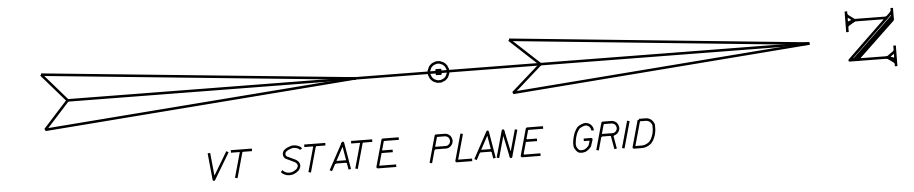
PROJECT NAME:	ROCKINGHAM
PROJECT NUMBER:	IM 091-1(66)

FILE NAME: sl2al30bdr.dgn
PROJECT LEADER: D. BONNEAU
DESIGNED BY: D. PETERSON
LAYOUT SHEET I

PLOT DATE: 02-SEP-2015
DRAWN BY: M. LONGSTREET
CHECKED BY: D. PETERSON
SHEET 6 OF 33

SCALE 1" = 20' - 0'



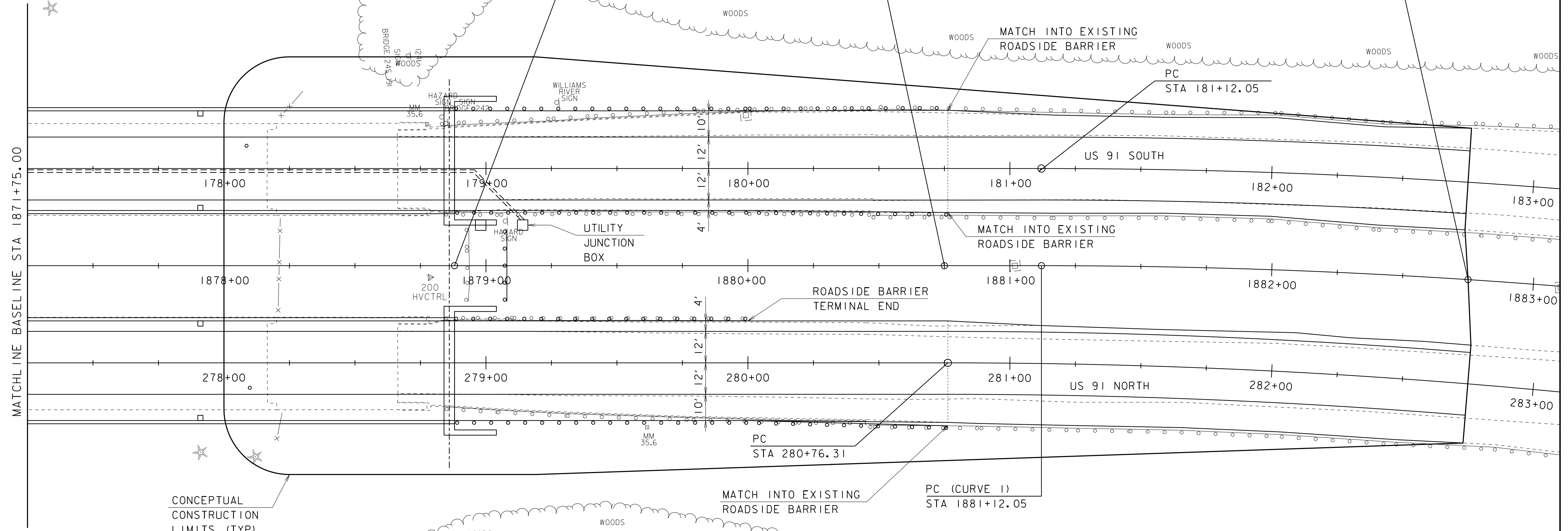


END BRIDGE
BASELINE STA 1878+88.00
BRIDGE 24N STA 278+88.00
BRIDGE 24S STA 178+88.00

END PROJECT
BASELINE STA 1880+75.00
BRIDGE 24N STA 280+75.00
BRIDGE 24S STA 180+75.00

END APPROACH
BASELINE STA 1882+75.00
BRIDGE 24N STA 282+75.00
BRIDGE 24S STA 182+75.00

MATCHLINE BASELINE STA 1871+75.00



MATCH INTO EXISTING
ROADSIDE BARRIER

MATCH INTO EXISTING
ROADSIDE BARRIER

ROADSIDE BARRIER
TERMINAL END

MATCH INTO EXISTING
ROADSIDE BARRIER

PC (CURVE 1)
STA 1881+12.05

PC
STA 280+76.31

UTILITY
JUNCTION
BOX

HAZARD
SIGN

WILLIAMS
RIVER
SIGN

200
HVCTRL

CONCEPTUAL
CONSTRUCTION
LIMITS (TYP)

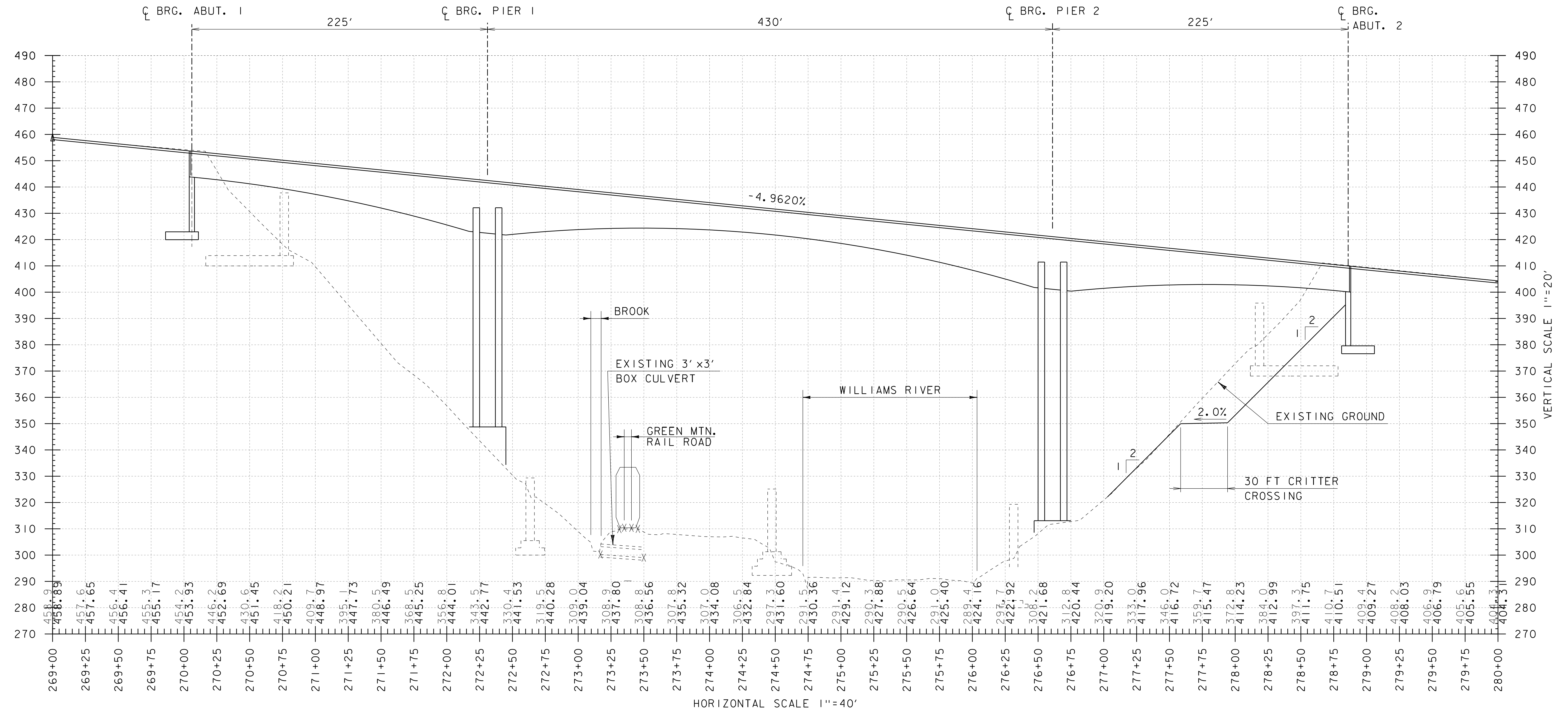
TEMPORARY
CONSTRUCTION
LIMITS (TYP)

CURVE (1) BASELINE
PI STA 1889+40.08
DELTA = 18°58'37"
D = 2°17'31"
R = 2500.00'
T = 417.84'
L = 828.03'
E = 34.68'

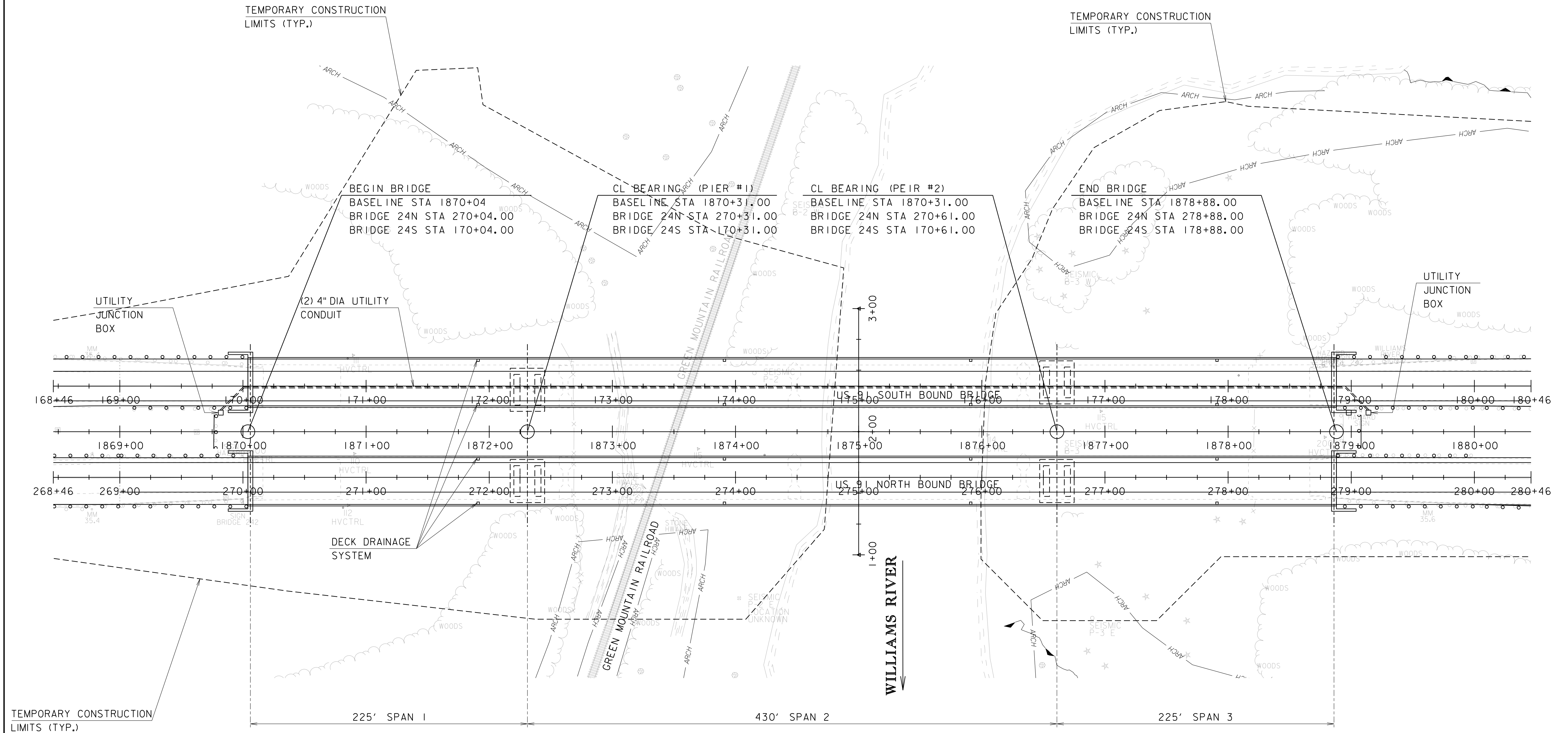
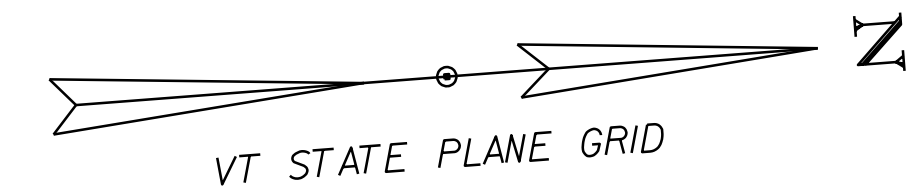
SCALE 1" = 20' - 0"
20 0 20

PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-I(66)	
FILE NAME: sl3al30bdr.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
LAYOUT SHEET 3	SHEET 8 OF 33

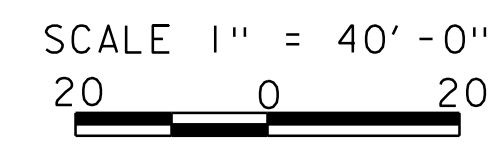
NB 191 PROPOSED PROFILE / ELEVATION SB 191 (SIMILAR)

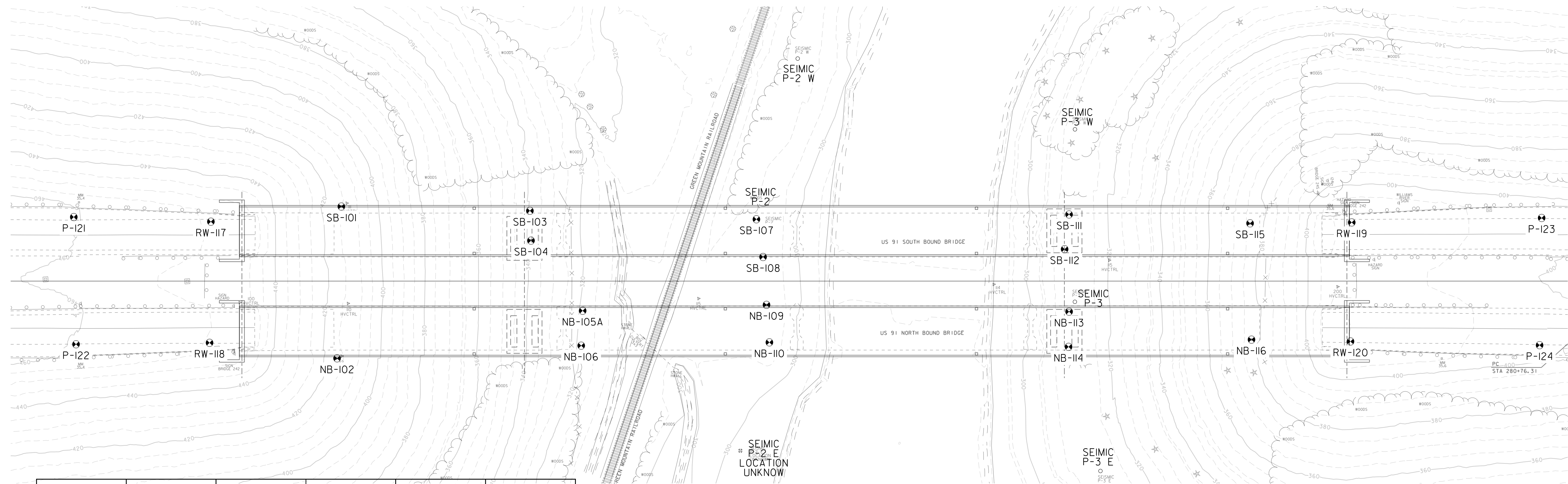


PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-I(66)	
FILE NAME: sl2al30pro.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
SB & NB PROPOSED PROFILES	SHEET 9 OF 33



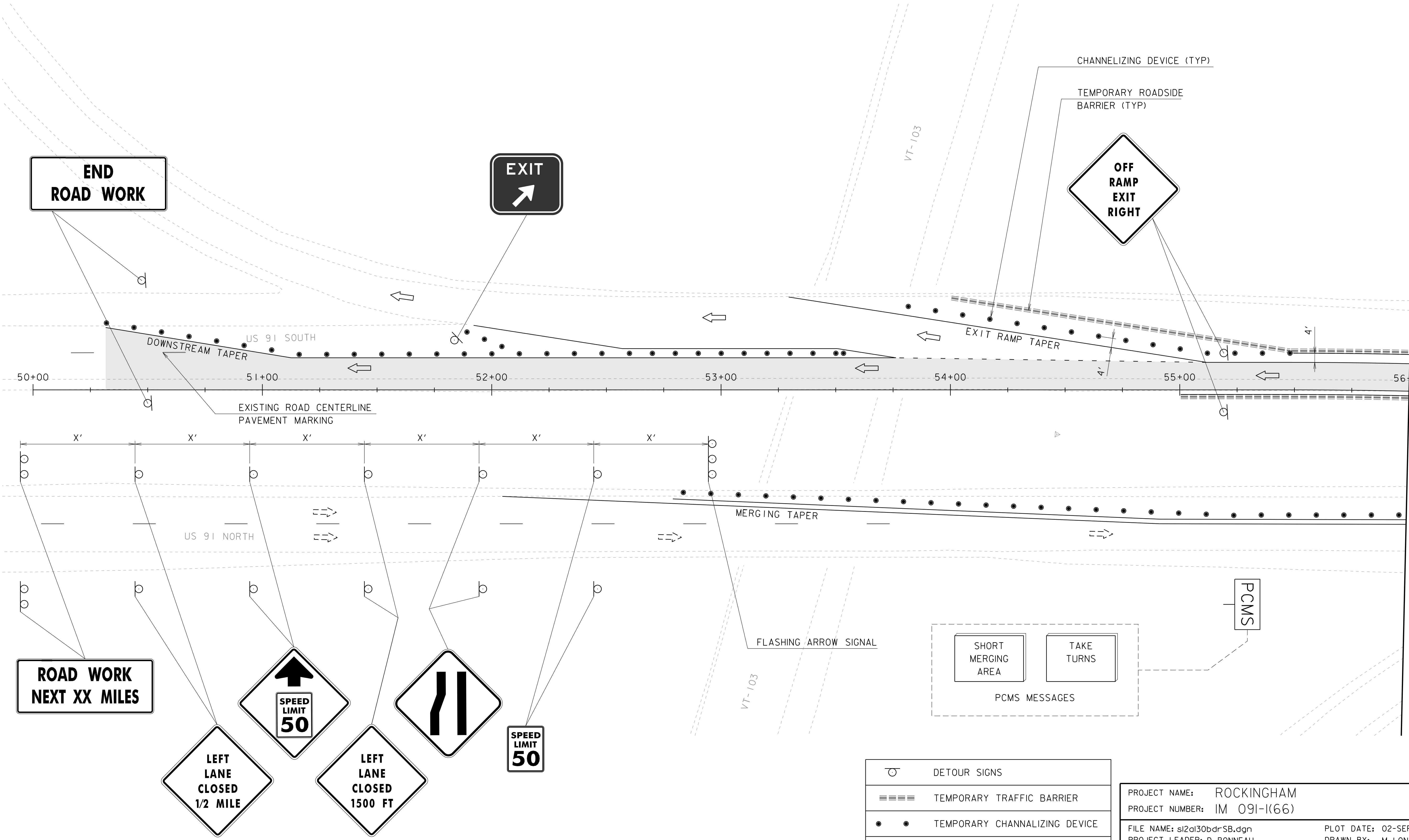
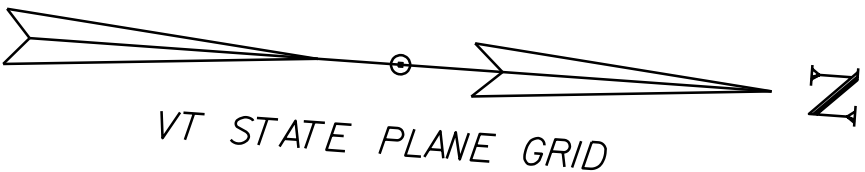
PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-I(66)	
FILE NAME: sl2al30bdr.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
BRIDGE PLAN	SHEET 10 OF 33





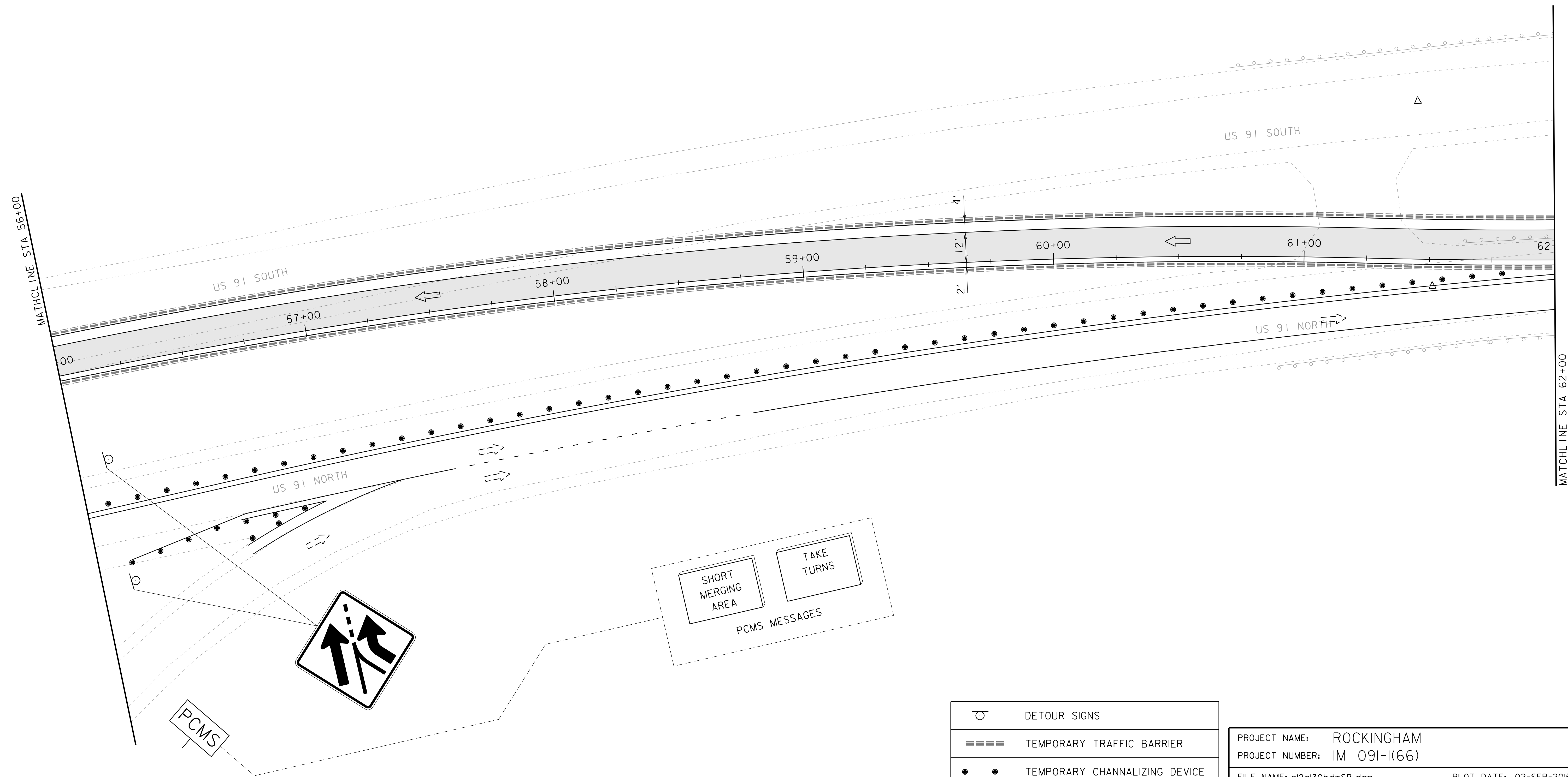
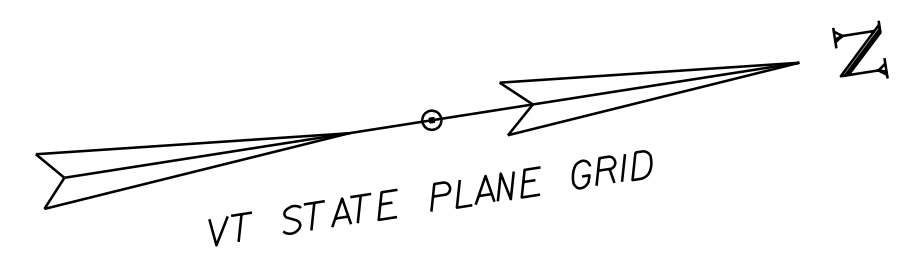
BORING POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
NB-102	1870+81.78	61.54	248535.65	1650310.81	415.80
NB-106	1872+76.21	51.44	248730.28	1650315.60	318.11
NB-109	1874+23.78	18.92	248879.91	1650294.45	308.00
NB-110	1874+26.08	48.83	248879.92	1650324.45	306.42
NB-113	1876+64.74	24.34	249119.76	1650318.26	312.09
NB-114	1876+64.33	52.38	249117.20	1650346.19	311.85
NB-116	1878+10.01	46.63	249262.89	1650351.59	377.69
NB-105A	1872+77.36	23.61	248733.57	1650287.94	318.56
P-121	1868+72.10	-51.03	248335.19	1650182.55	460.26
P-122	1868+73.89	50.35	248329.22	1650283.77	459.73
P-123	1880+41.08	-50.31	249500.70	1650272.59	402.44
P-124	1880+39.45	51.08	249491.33	1650373.56	401.68
RW-117	1869+81.29	-47.36	248443.78	1650194.55	454.52
RW-118	1869+80.22	49.16	248435.34	1650290.71	454.77
RW-119	1878+89.86	-46.75	249349.64	1650264.58	409.35
RW-120	1878+88.86	48.09	249341.40	1650359.07	409.91
SB-101	1870+85.19	-59.42	248548.30	1650190.46	415.04
SB-103	1872+35.34	-56.04	248697.75	1650205.31	339.20
SB-104	1872+36.22	-32.27	248696.82	1650229.08	339.12
SB-107	1874+15.74	-49.26	248877.10	1650225.86	309.67
SB-108	1874+21.04	-19.22	248880.10	1650256.21	308.78
SB-111	1876+64.72	-53.09	249125.65	1650241.06	311.88
SB-112	1876+61.20	-25.41	249120.02	1650268.39	311.69
SB-115	1878+08.88	-46.02	249268.85	1650259.13	375.89

PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 09I-I(66)	
FILE NAME: sl2al30bor.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
BORING LAYOUT	SHEET II OF 33



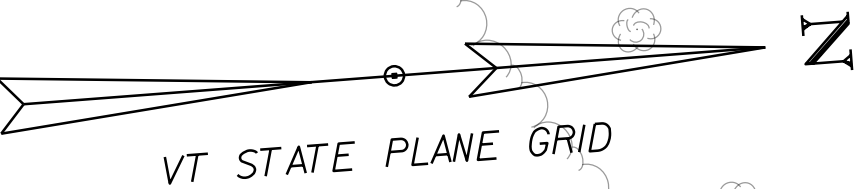
	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNALIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 09I-I(66)	
FILE NAME: sl2al30bdrSB.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
STAGE I SB CROSS OVER LAYOUT I	SHEET 12 OF 33



	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNALIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-I(66)	
FILE NAME: sl2al30bdrSB.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
STAGE 1 SB CROSS OVER LAYOUT 2	SHEET 13 OF 33



BRIDGE CLOSED FOR STAGE I
WORK ZONE APPROXIMATE AREA

CONNECT ROADSIDE BARRIER
TO EXISTING BRIDGE BARRIER

11' LANE
ON BRIDGE

1' SHOULDER
ON BRIDGE

1' SHOULDER
ON BRIDGE

ROADSIDE BARRIER (TYP)

TEMPORARY PAVEMENT MARKINGS



DETOUR SIGNS



TEMPORARY TRAFFIC BARRIER



TEMPORARY CHANNALIZING DEVICE



DETOUR DIRECTION OF TRAVEL

PROJECT NAME: ROCKINGHAM

PROJECT NUMBER: IM 09I-I(66)

FILE NAME: sl2al30bdrSB.dgn

PROJECT LEADER: D. BONNEAU

DESIGNED BY: D. PETERSON

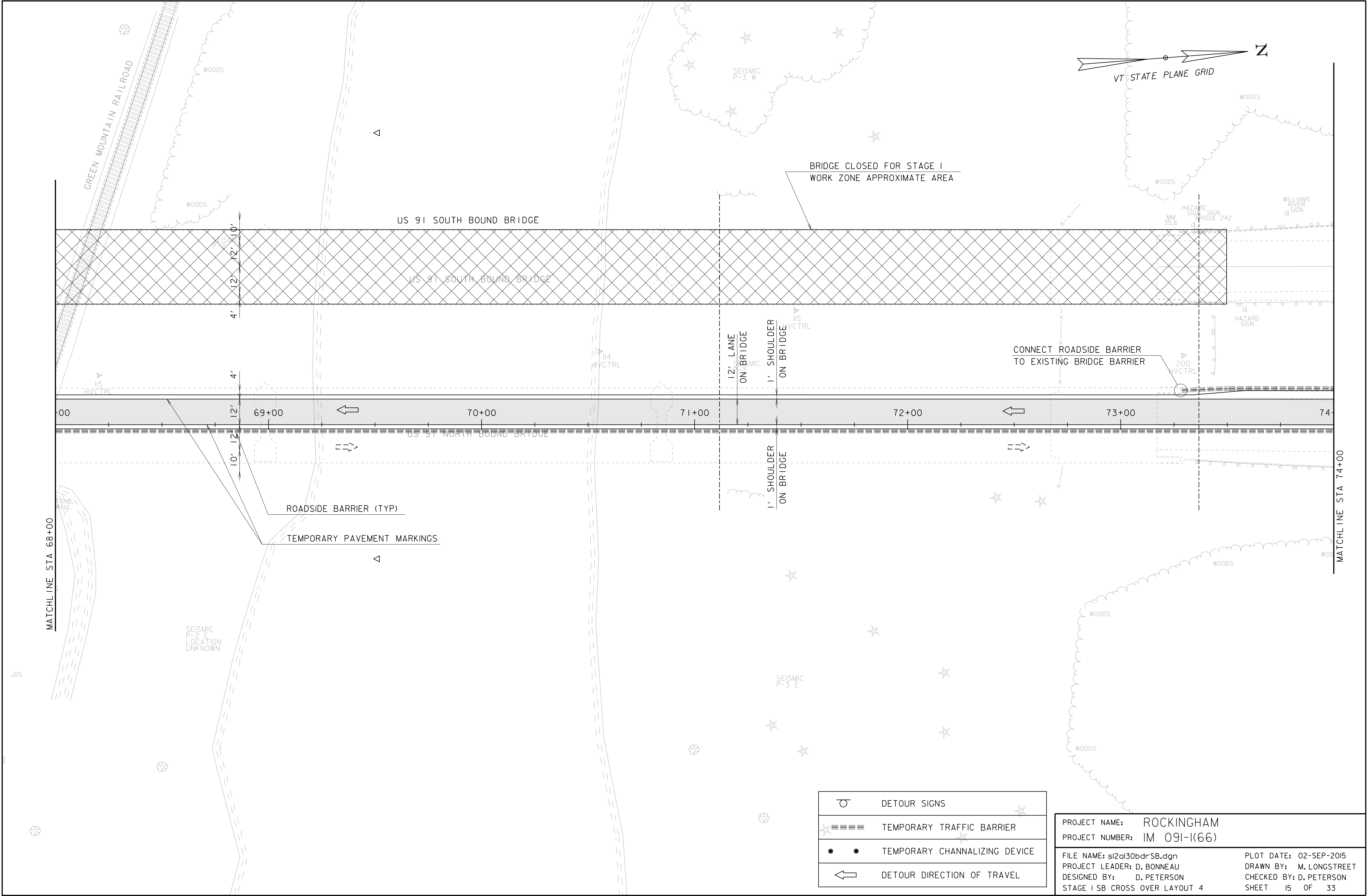
STAGE I SB CROSS OVER LAYOUT 3

PLOT DATE: 02-SEP-2015

DRAWN BY: M. LONGSTREET

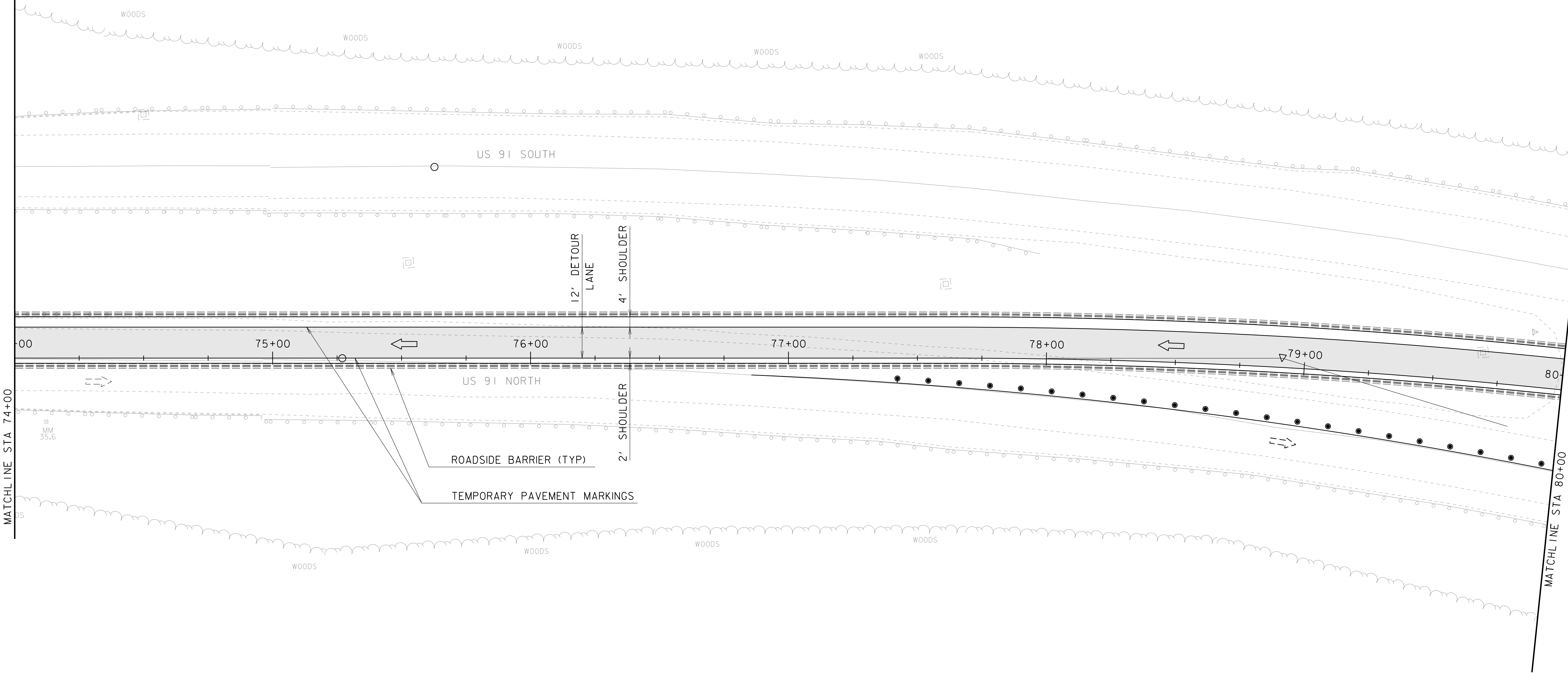
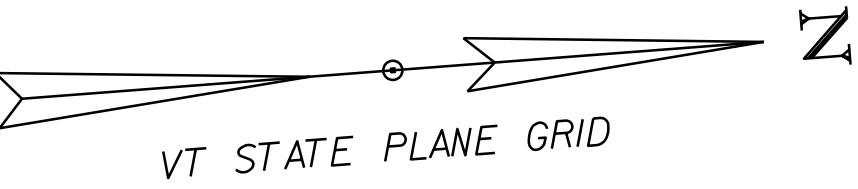
CHECKED BY: D. PETERSON

SHEET 14 OF 33



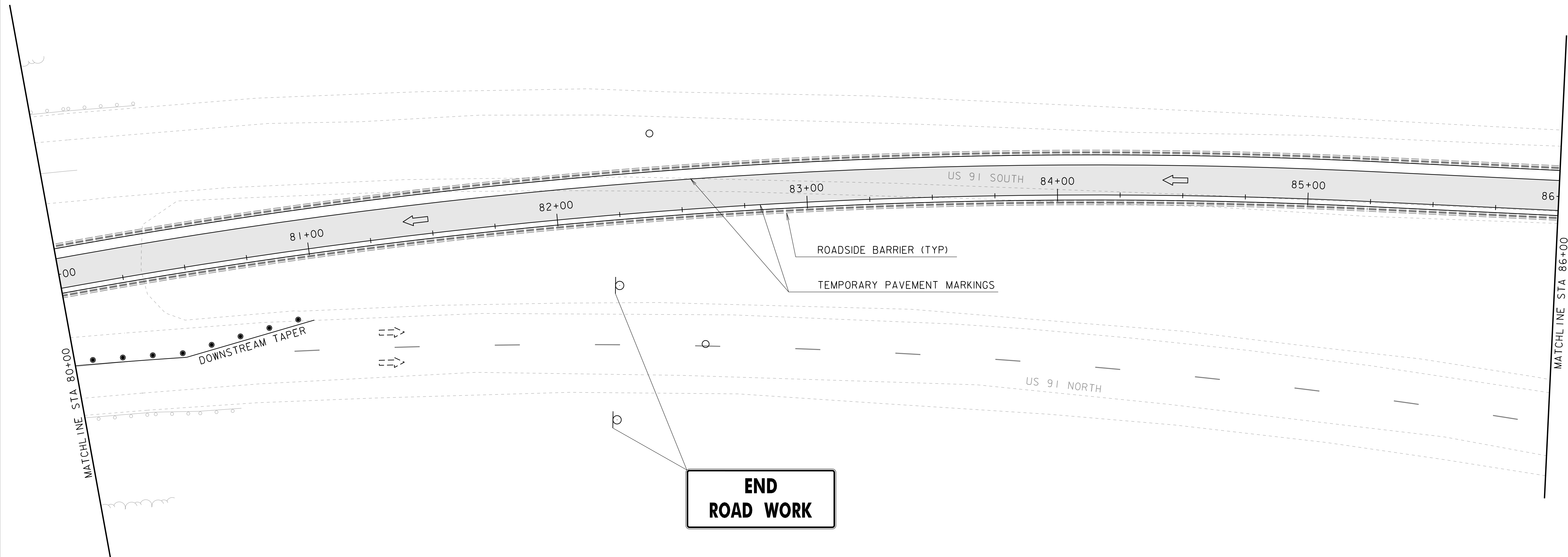
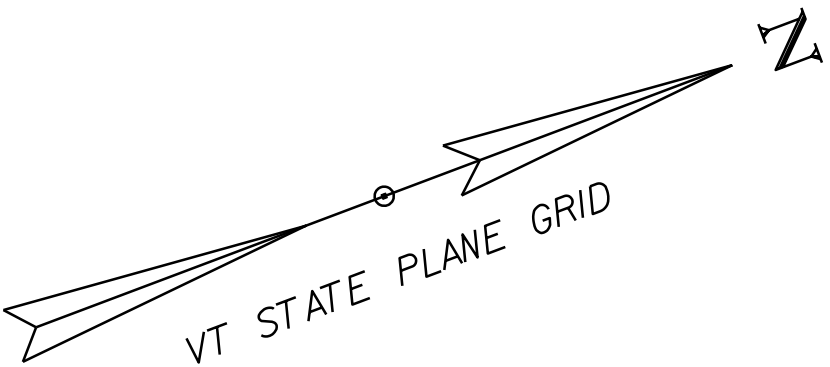
	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNELIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-I(66)	
FILE NAME: sl2al30bdrSB.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
STAGE I SB CROSS OVER LAYOUT 4	SHEET 15 OF 33



	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNALIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

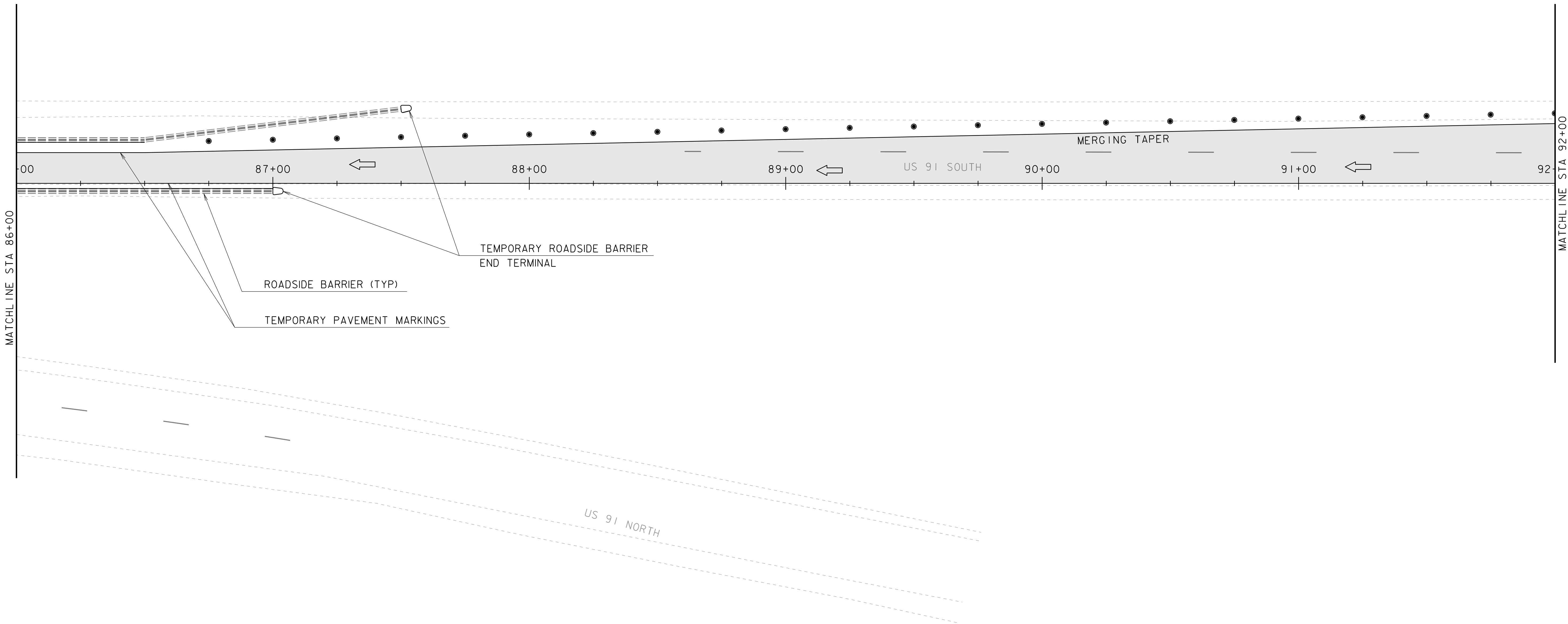
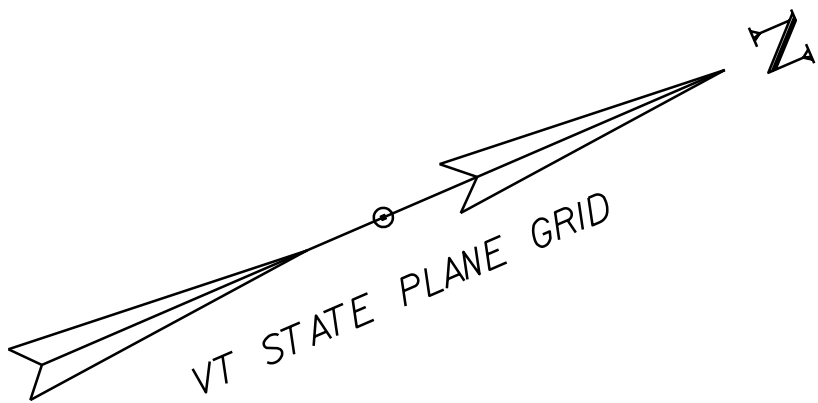
PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-I(66)	
FILE NAME: sl2al30bdrSB.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
STAGE I SB CROSS OVER LAYOUT 5	SHEET 16 OF 33



	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNALIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

PROJECT NAME: ROCKINGHAM
PROJECT NUMBER: IM 09I-I(66)

FILE NAME: sl2al30bdrSB.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
STAGE I SB CROSS OVER LAYOUT 6	SHEET 17 OF 33

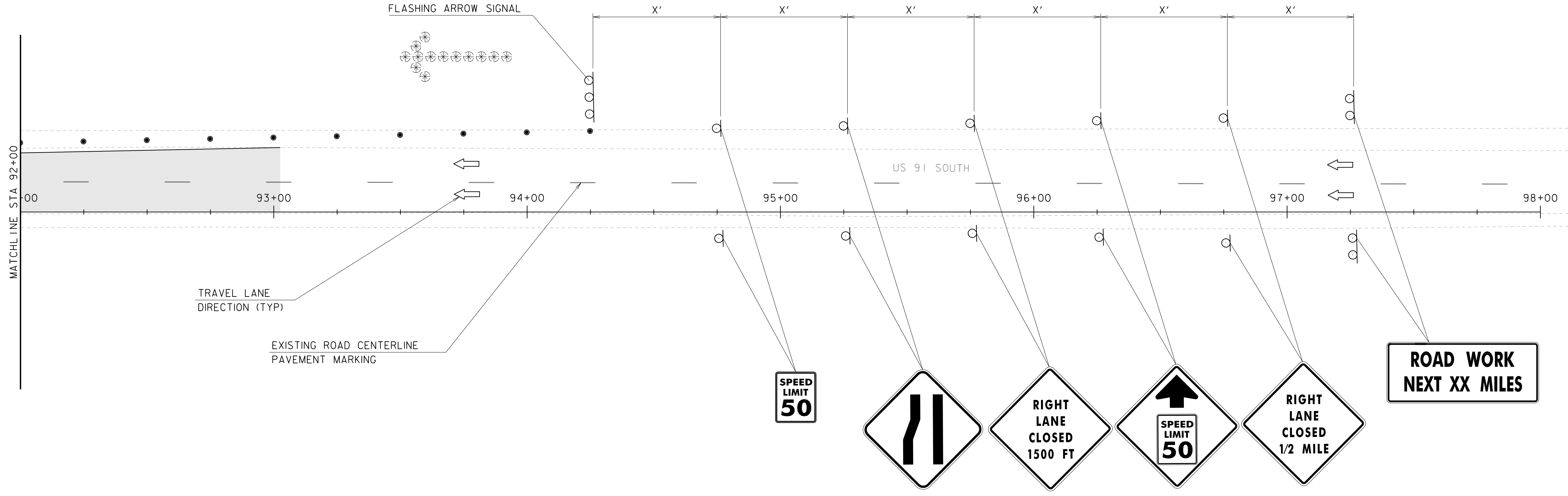
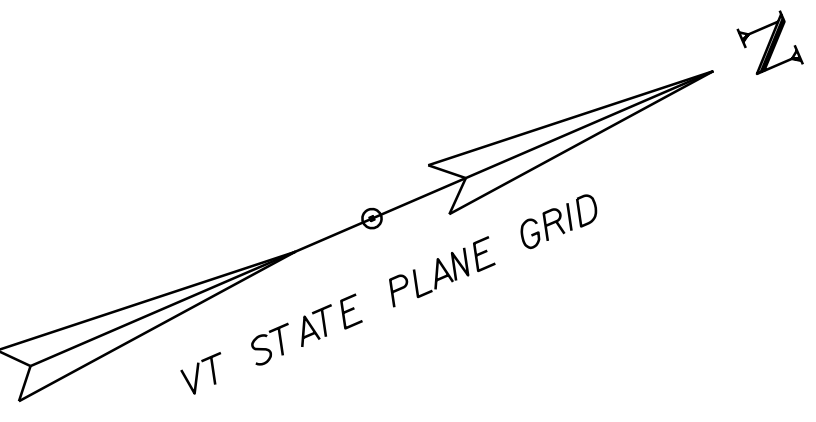


	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNALIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

PROJECT NAME: ROCKINGHAM
PROJECT NUMBER: IM 09I-I(66)

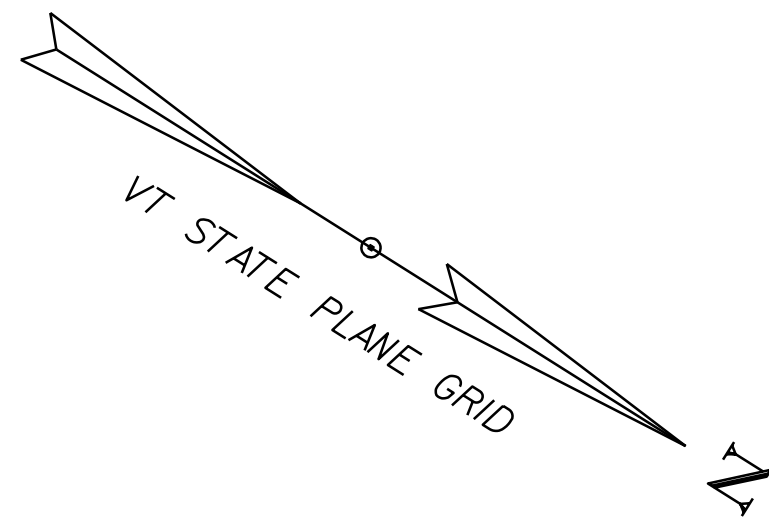
FILE NAME: sl2al30bdrSB.dgn
PROJECT LEADER: D. BONNEAU
DESIGNED BY: D. PETERSON
STAGE I SB CROSS OVER LAYOUT 7

PLOT DATE: 02-SEP-2015
DRAWN BY: M. LONGSTREET
CHECKED BY: D. PETERSON
SHEET 18 OF 33



	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNALIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-I(66)	
FILE NAME: sl2al30bdrSB.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
STAGE I SB CROSS OVER LAYOUT 8	SHEET 19 OF 33



189 ON RAMP
CLOSED
DETOUR AHEAD

191 NORTH
OVERPASS

VT-103

189 ON RAMP
CLOSED
DETOUR AHEAD

TO ON RAMP
US-91 NORTH

ON RAMP
US-91 NORTH



d

← US ROUTE 5 (SOUTH)
US ROUTE 5 (NORTH) →

VT-103

TO ON RAMP
US-91 NORTH

189 ON RAMP
CLOSED
DETOUR AHEAD

189 ON RAMP
CLOSED
DETOUR AHEAD



TO ON RAMP
US-91 NORTH

← US ROUTE 5 (SOUTH)
US ROUTE 5 (NORTH) →

p

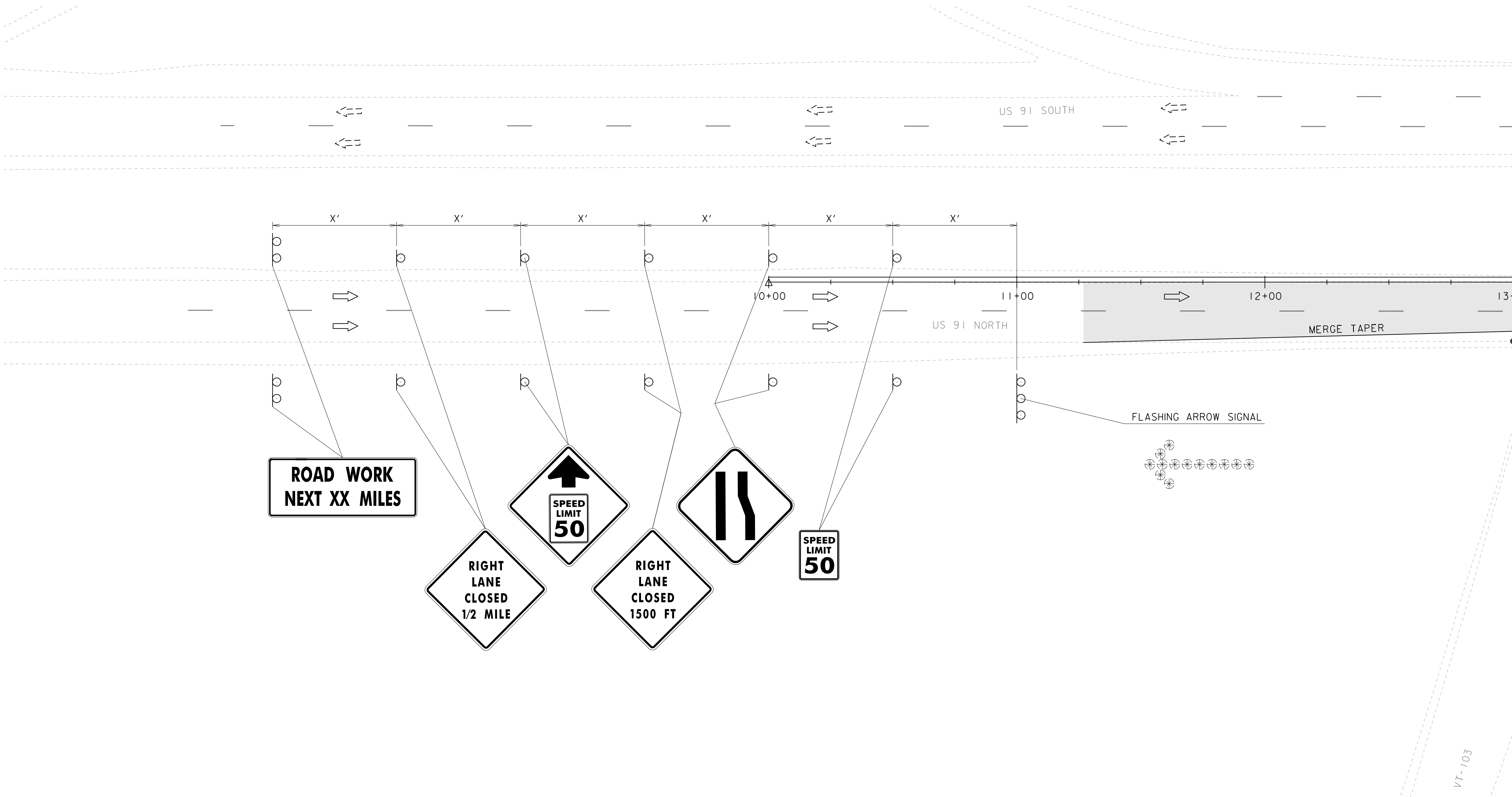
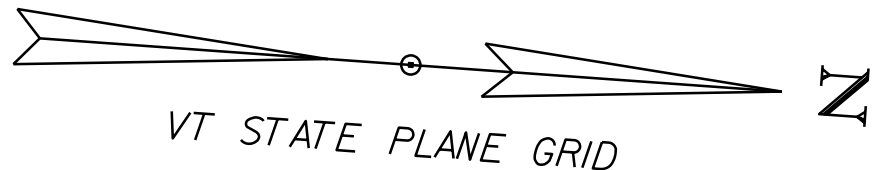


DRIVE

PROJECT NAME: ROCKINGHAM
PROJECT NUMBER: IM 091-I(66)

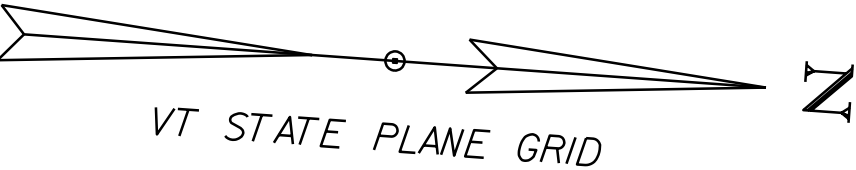
FILE NAME: sl2al30bdrNB.dgn
PROJECT LEADER: D. BONNEAU
DESIGNED BY: D. PETERSON
STAGE 2 NB RAMP CLOSURE LAYOUT

PLOT DATE: 02-SEP-2015
DRAWN BY: M. LONGSTREET
CHECKED BY: D. PETERSON
SHEET 20 OF 33

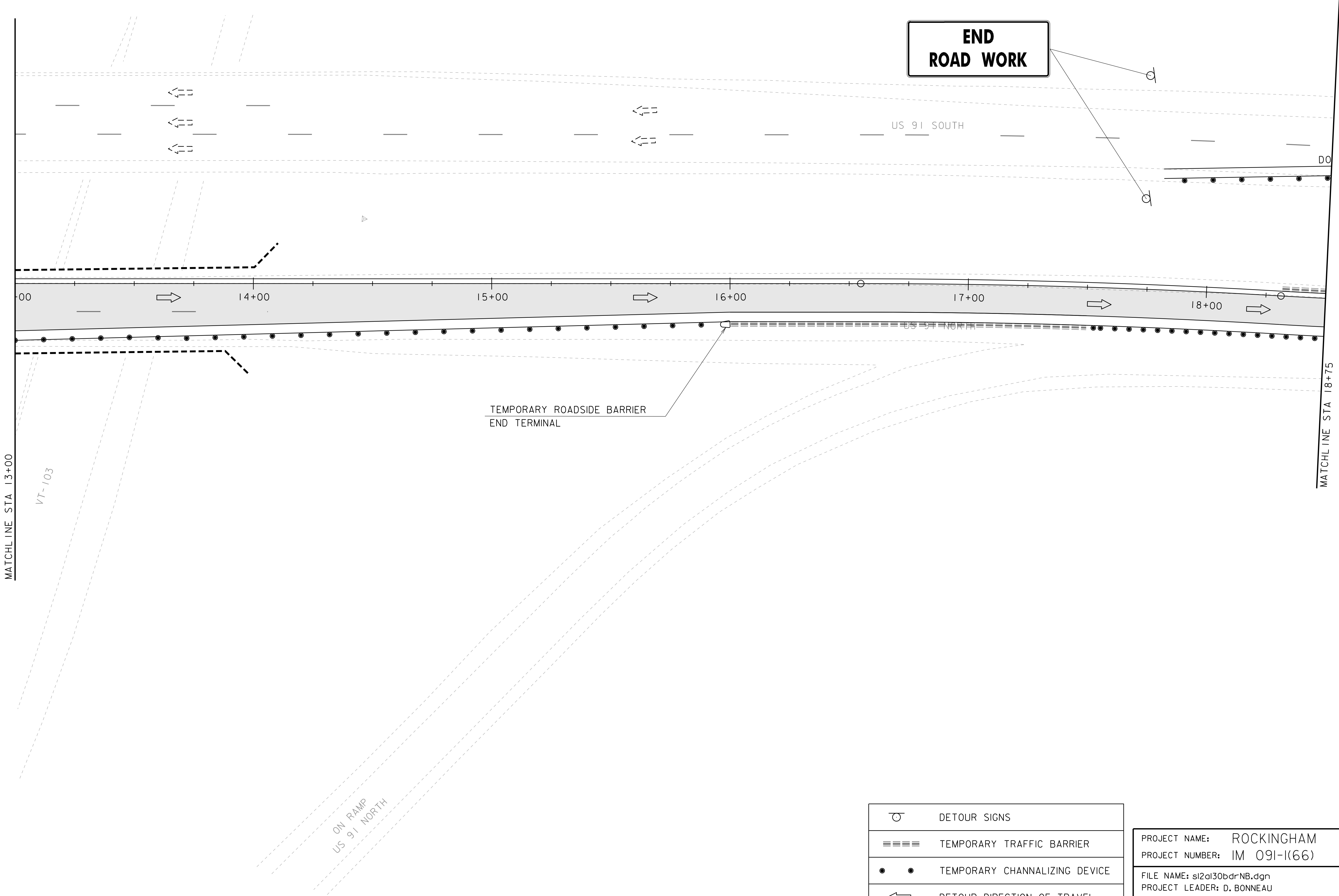


	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNALIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-1(66)	
FILE NAME: sl2al30bdrNB.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
STAGE 2 NB CROSS OVER LAYOUT 1	SHEET 21 OF 33



**END
ROAD WORK**

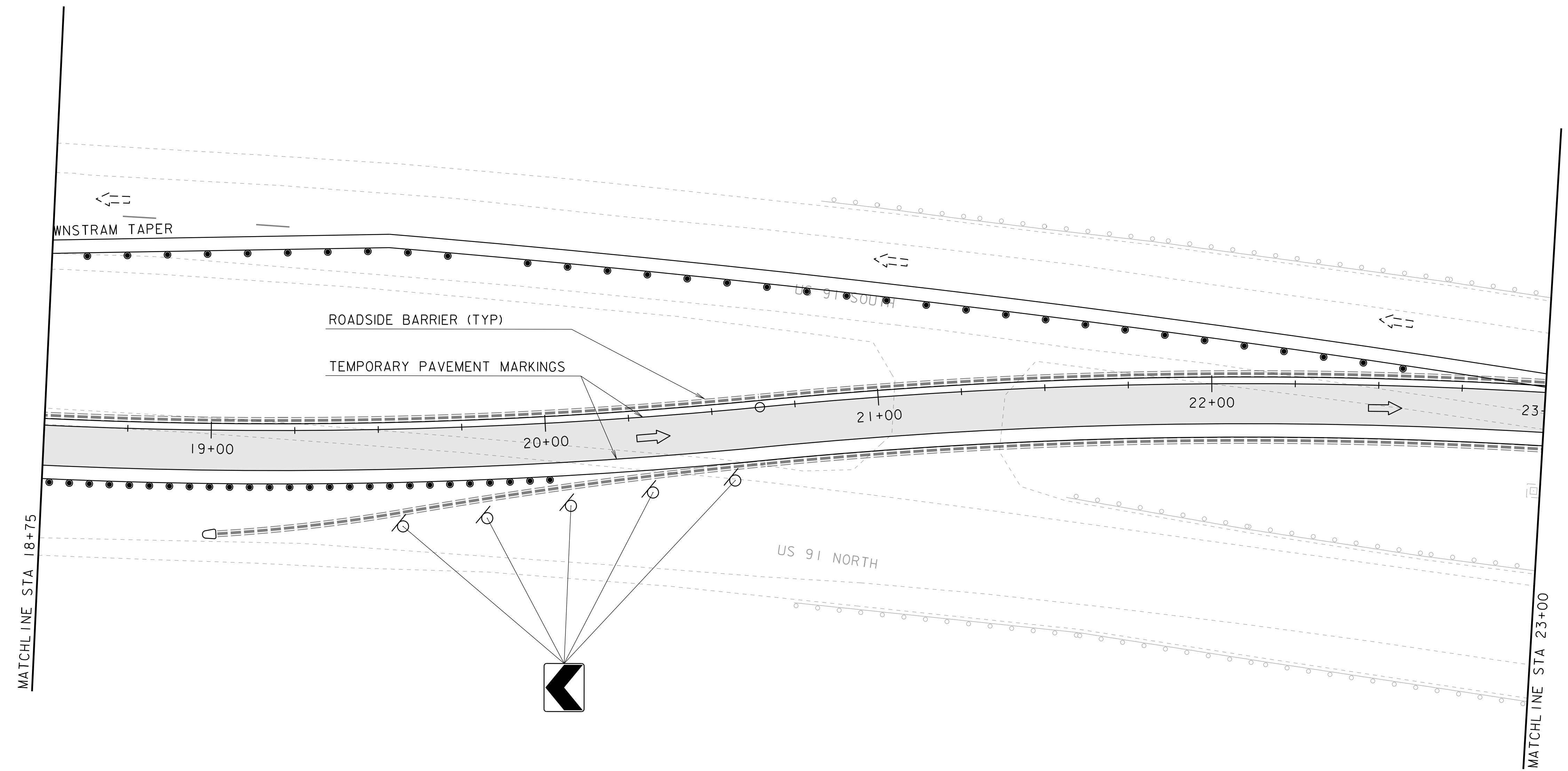
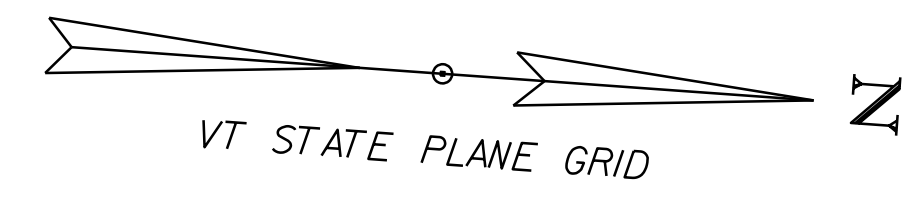


	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNALIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

PROJECT NAME: ROCKINGHAM
PROJECT NUMBER: IM 091-I(66)

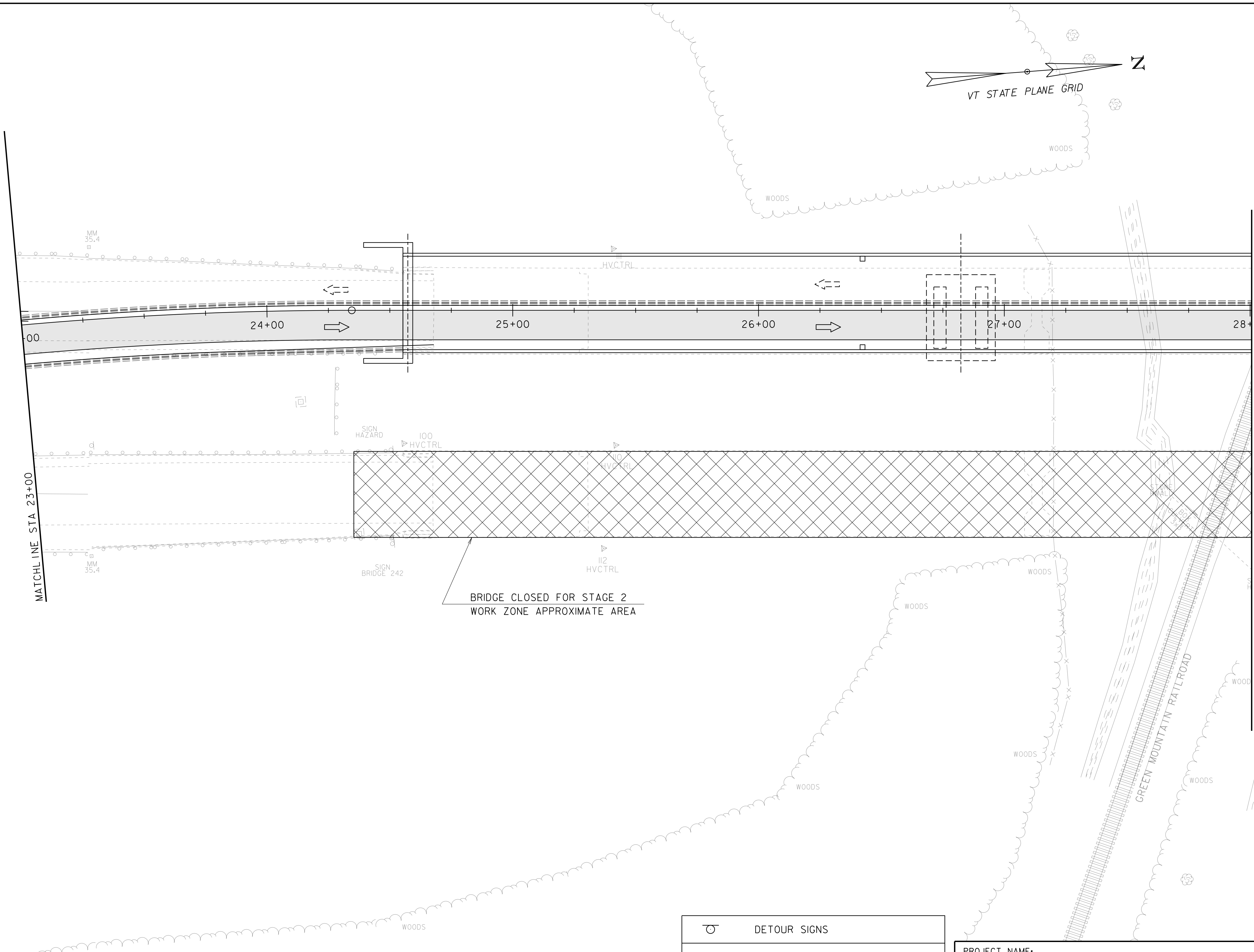
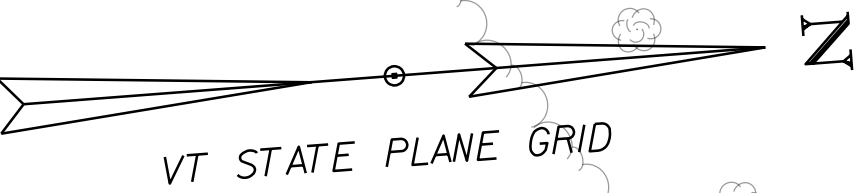
FILE NAME: sl2al30bdrNB.dgn
PROJECT LEADER: D. BONNEAU
DESIGNED BY: D. PETERSON
STAGE 2 NB CROSS OVER LAYOUT 2

PLOT DATE: 02-SEP-2015
DRAWN BY: M. LONGSTREET
CHECKED BY: D. PETERSON
SHEET 22 OF 33



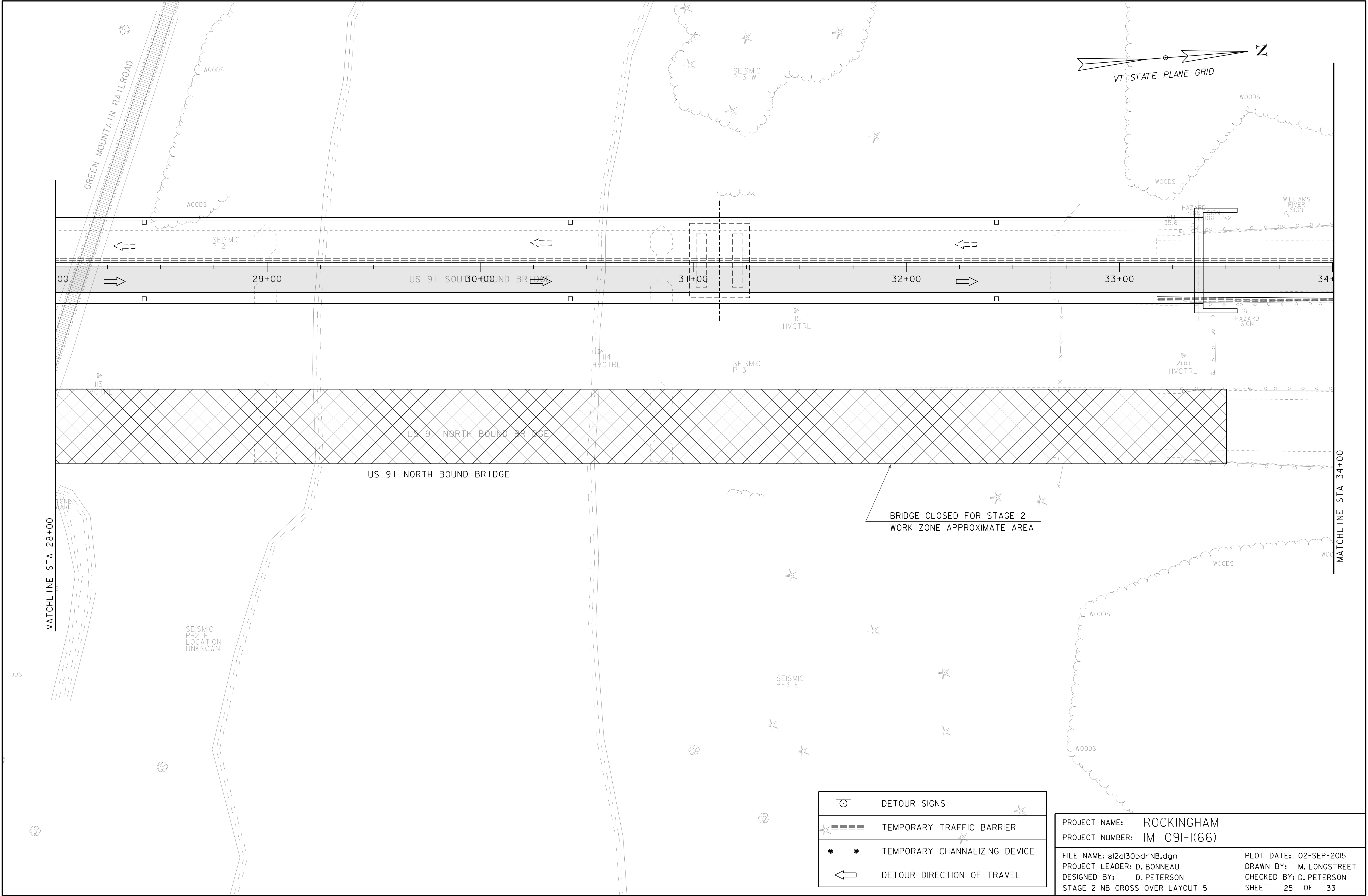
	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNALIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-I(66)	
FILE NAME: sl2al30bdrNB.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
STAGE 2 NB CROSS OVER LAYOUT 3	SHEET 23 OF 33



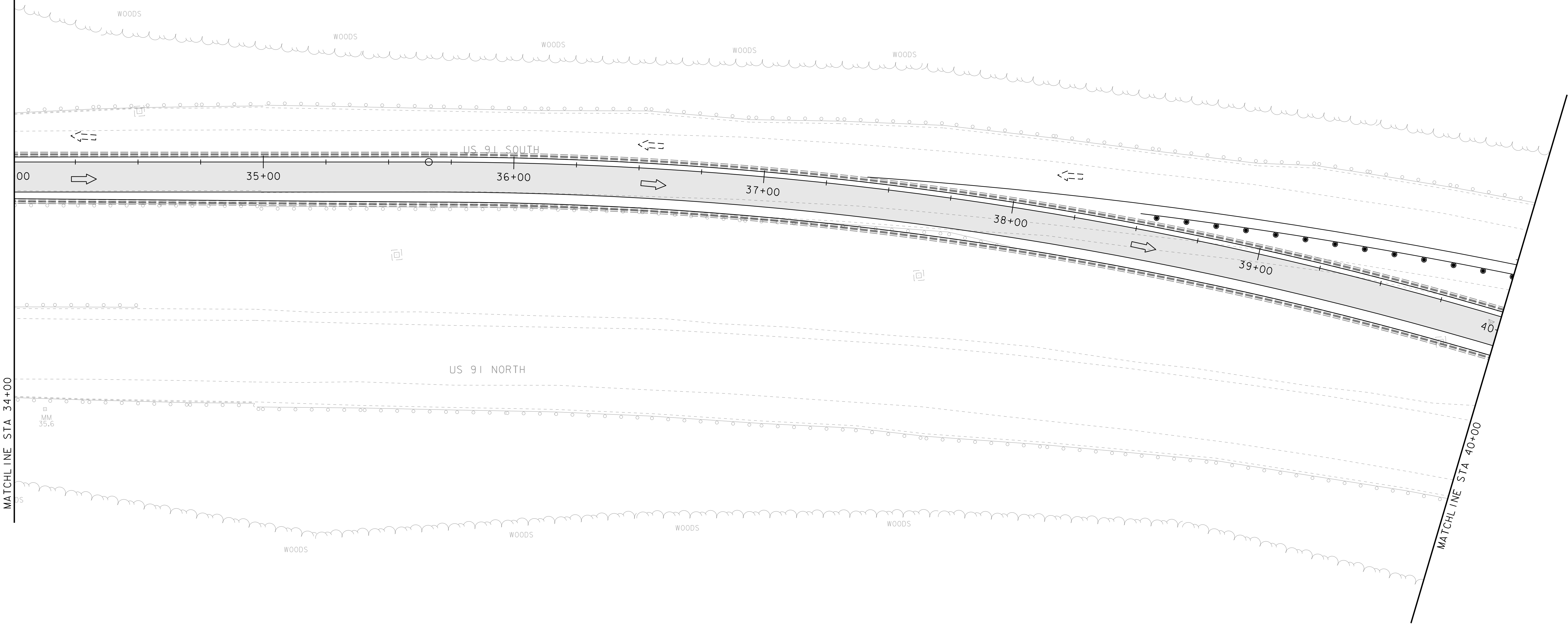
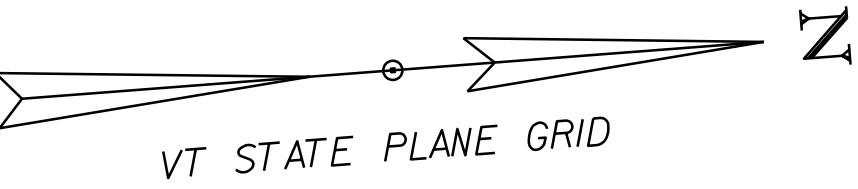
	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNALIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

PROJECT NAME:	
PROJECT NUMBER: IM 09I-I(66)	
FILE NAME: sl2al30bdrNB.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
STAGE 2 NB CROSS OVER LAYOUT 4	SHEET 24 OF 33



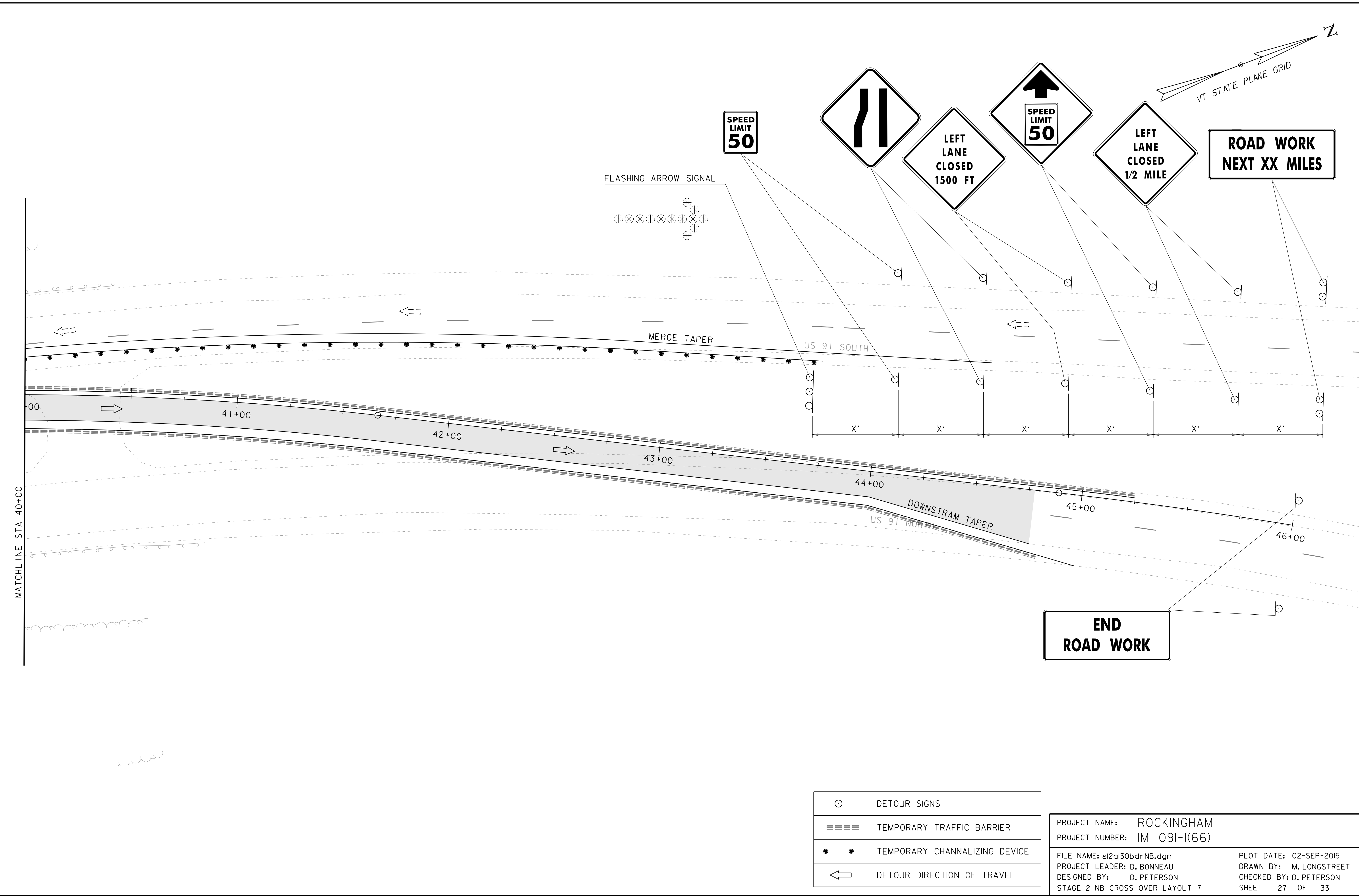
	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNELIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-I(66)	
FILE NAME: sl2al30bdrNB.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
STAGE 2 NB CROSS OVER LAYOUT 5	SHEET 25 OF 33

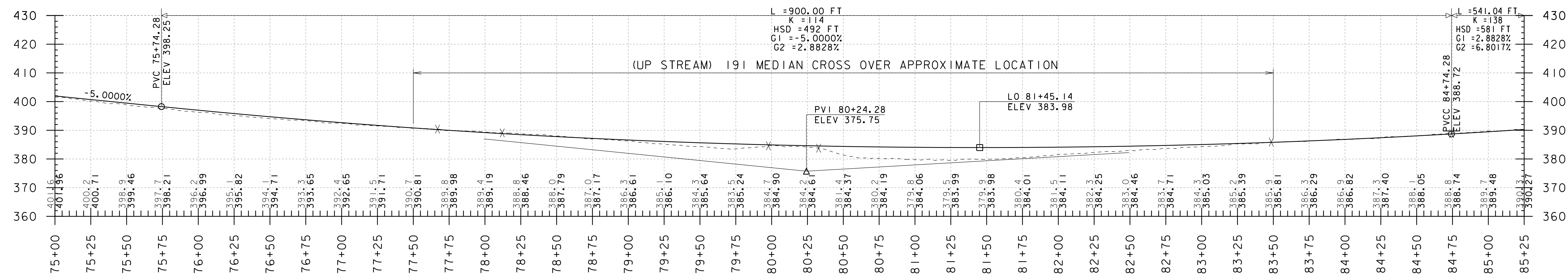


	DETOUR SIGNS
	TEMPORARY TRAFFIC BARRIER
	TEMPORARY CHANNALIZING DEVICE
	DETOUR DIRECTION OF TRAVEL

PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 09I-I(66)	
FILE NAME: sl2al30bdrNB.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
STAGE 2 NB CROSS OVER LAYOUT 6	SHEET 26 OF 33

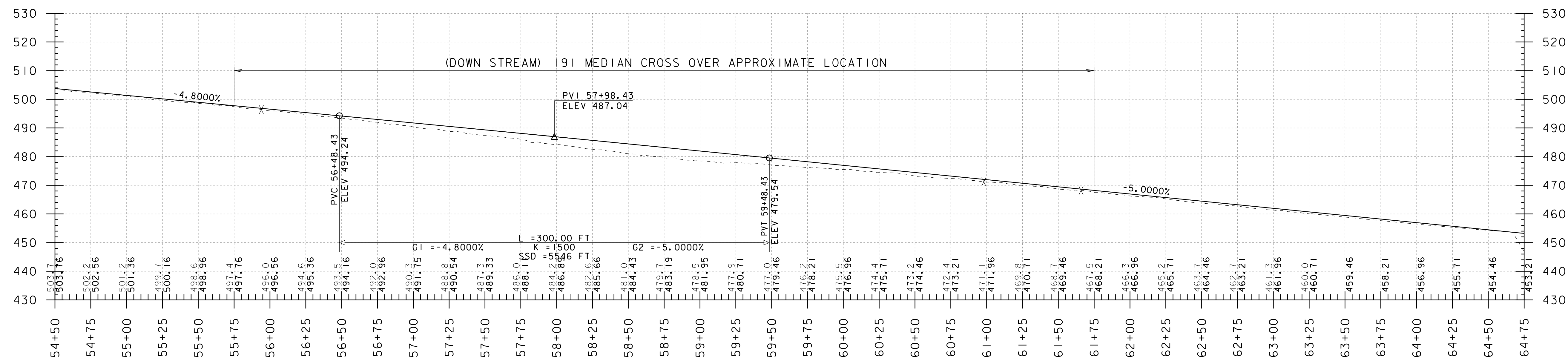


SB 191 CROSS OVER PROFILE (SEGMENT 3 OF 3)



(SEGMENT 2 OF 3, NOT SHOWN, -5% TANGENT GRADE)

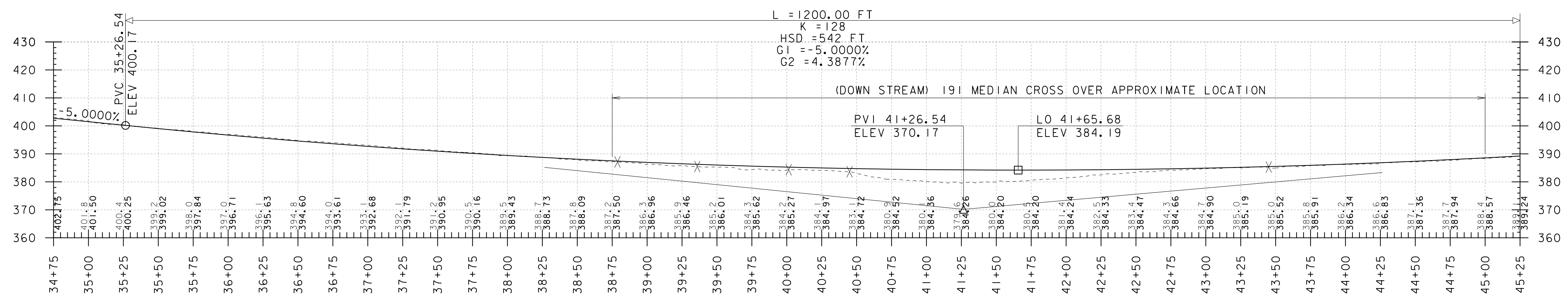
SB 191 CROSS OVER PROFILE (SEGMENT 1 OF 3)



SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 20'

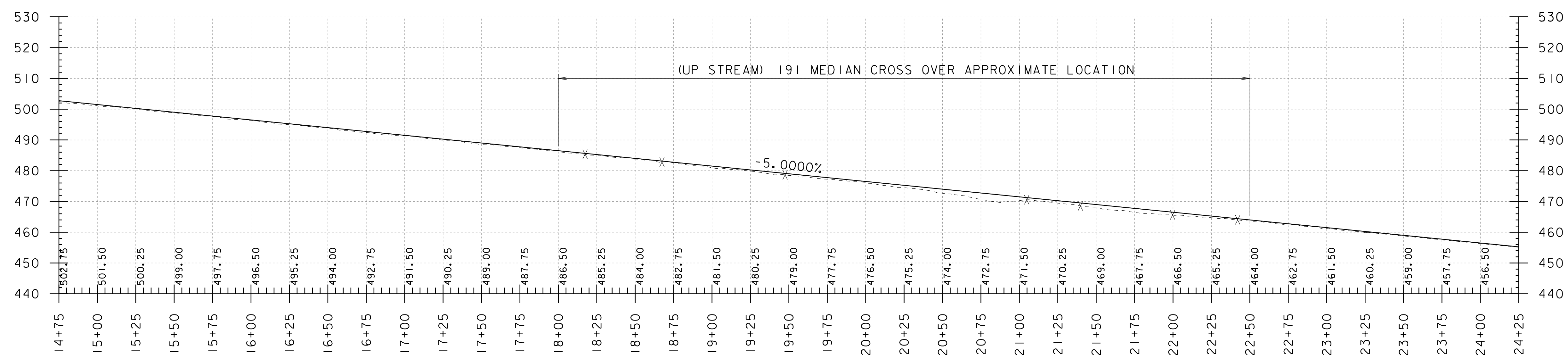
PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-I(66)	
FILE NAME: sl2al30pro.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
SB CROSS OVER PROFILES	SHEET 28 OF 33

NB 191 CROSS OVER PROFILE (SEGMENT 3 OF 3)



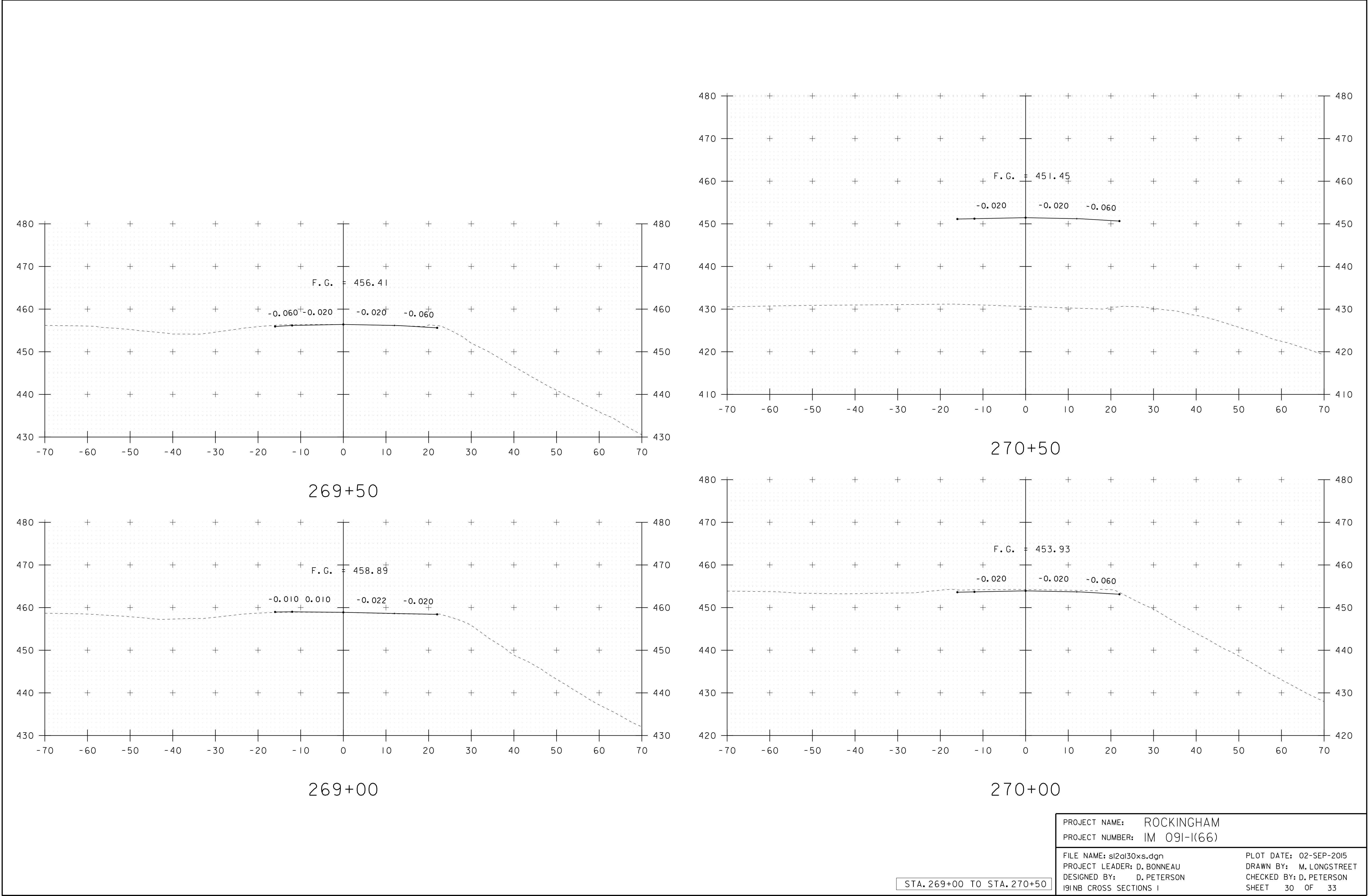
(SEGMENT 2 OF 3, NOT SHOWN, -5% TANGENT GRADE)

NB 191 CROSS OVER PROFILE (SEGMENT 1 OF 3)

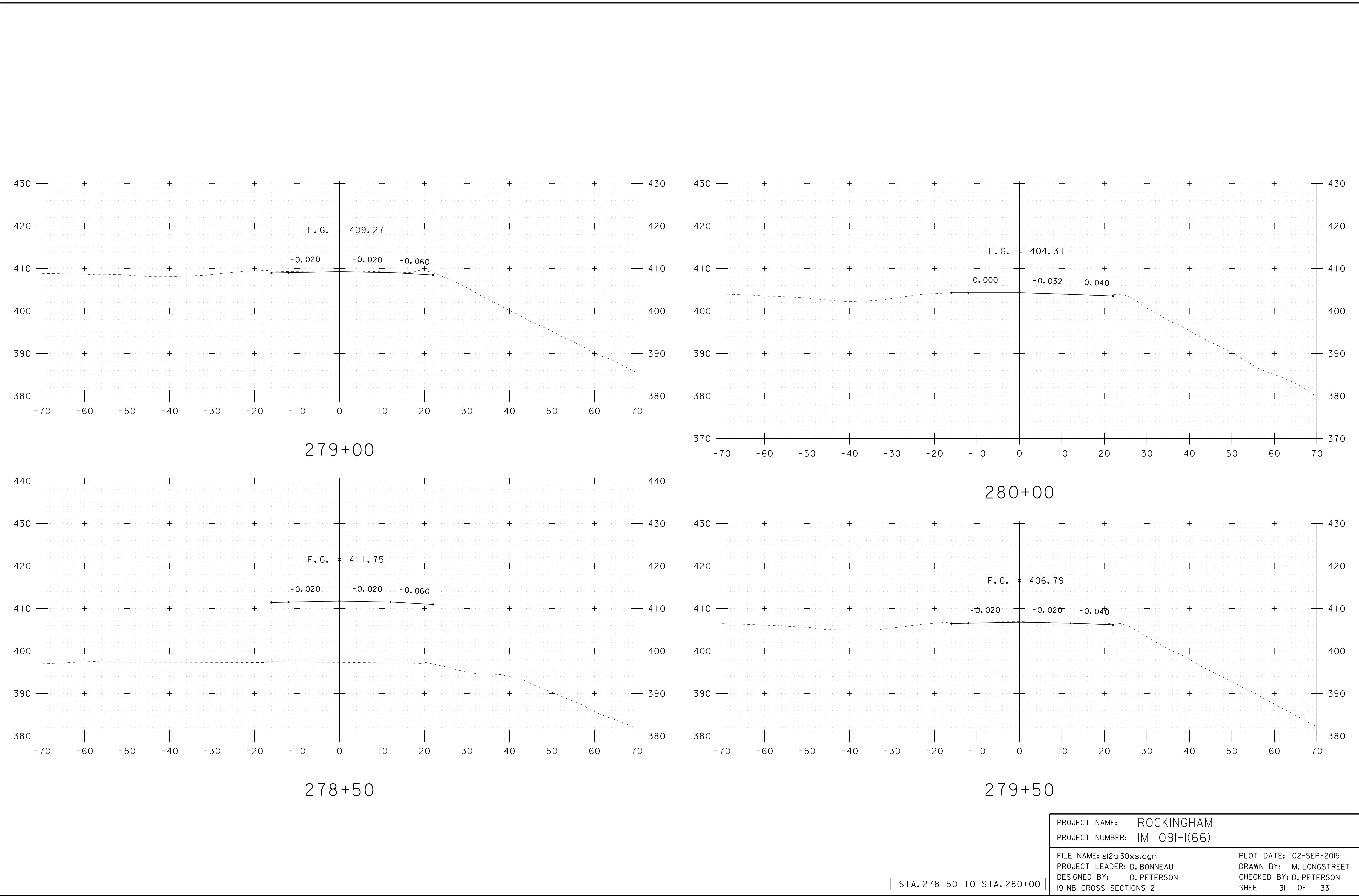


SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 20'

PROJECT NAME: ROCKINGHAM	
PROJECT NUMBER: IM 091-I(66)	
FILE NAME: sl2al30pro.dgn	PLOT DATE: 02-SEP-2015
PROJECT LEADER: D. BONNEAU	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
NB CROSS OVER PROFILES	SHEET 29 OF 33



STA. 269+00 TO STA. 270+50



STA. 278+50 TO STA. 280+00

PROJECT NAME: ROCKINGHAM

PROJECT NUMBER: IM 09I-I(66)

FILE NAME: sl2al30xs.dgn

PROJECT LEADER: D. BONNEAU

DESIGNED BY: D. PETERSON

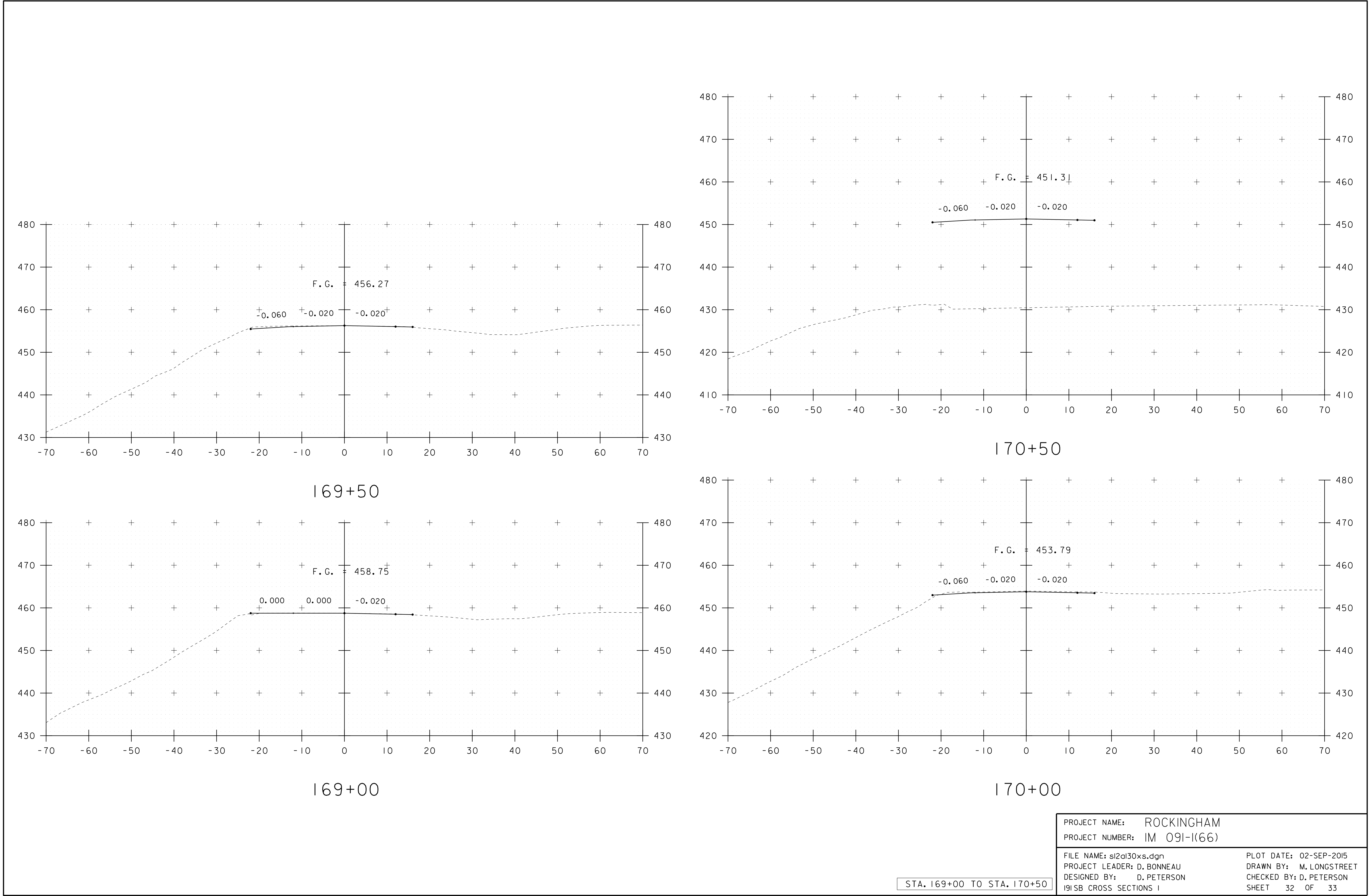
I91NB CROSS SECTIONS 2

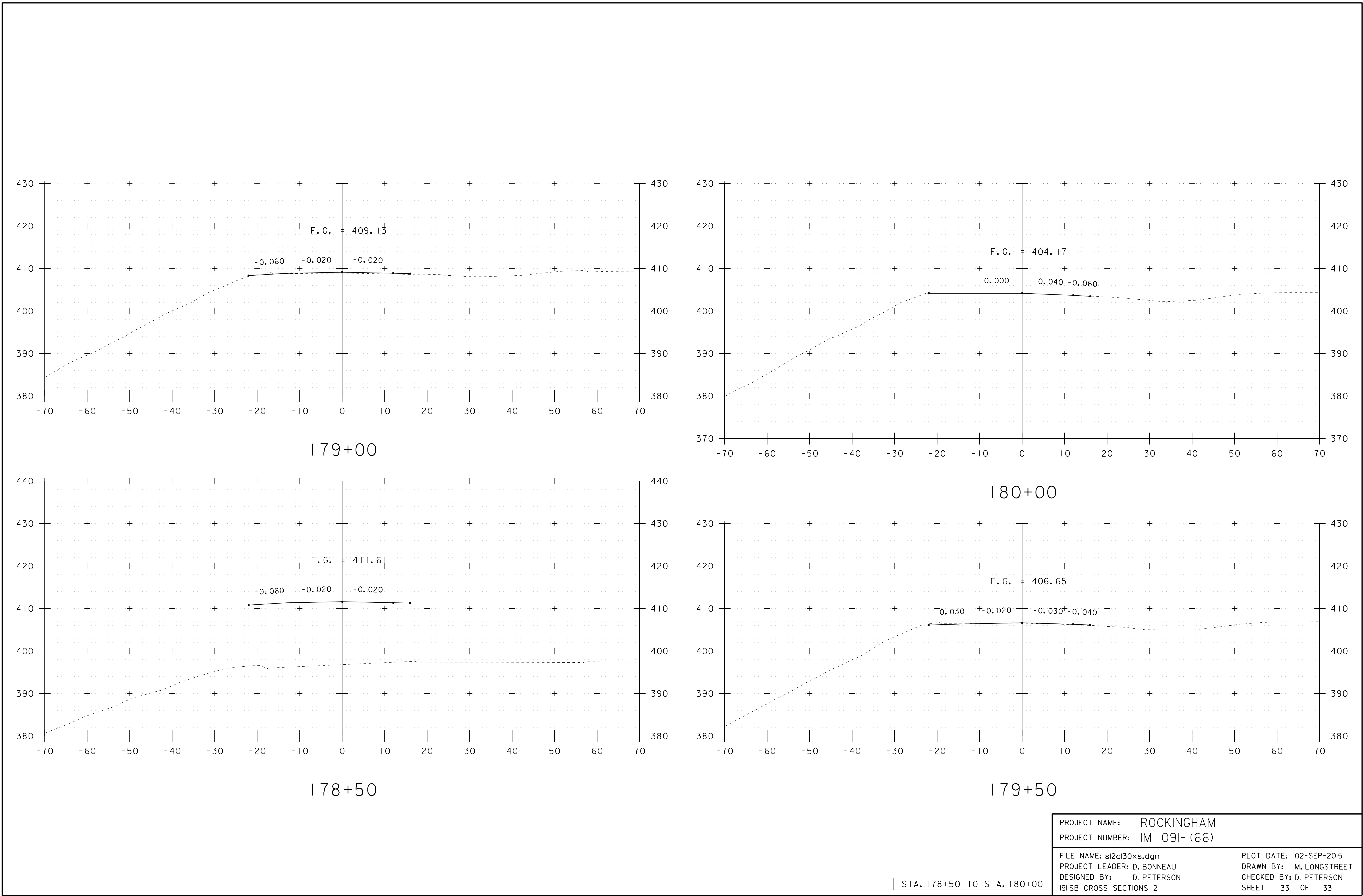
PLOT DATE: 02-SEP-2015

DRAWN BY: M. LONGSTREET

CHECKED BY: D. PETERSON

SHEET 31 OF 33





STA. 178+50 TO STA. 180+00

PROJECT NAME: ROCKINGHAM

PROJECT NUMBER: IM 091-I(66)

FILE NAME: sl2al30xs.dgn

PROJECT LEADER: D. BONNEAU

DESIGNED BY: D. PETERSON

I91SB CROSS SECTIONS 2

PLOT DATE: 02-SEP-2015

DRAWN BY: M. LONGSTREET

CHECKED BY: D. PETERSON

SHEET 33 OF 33