

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

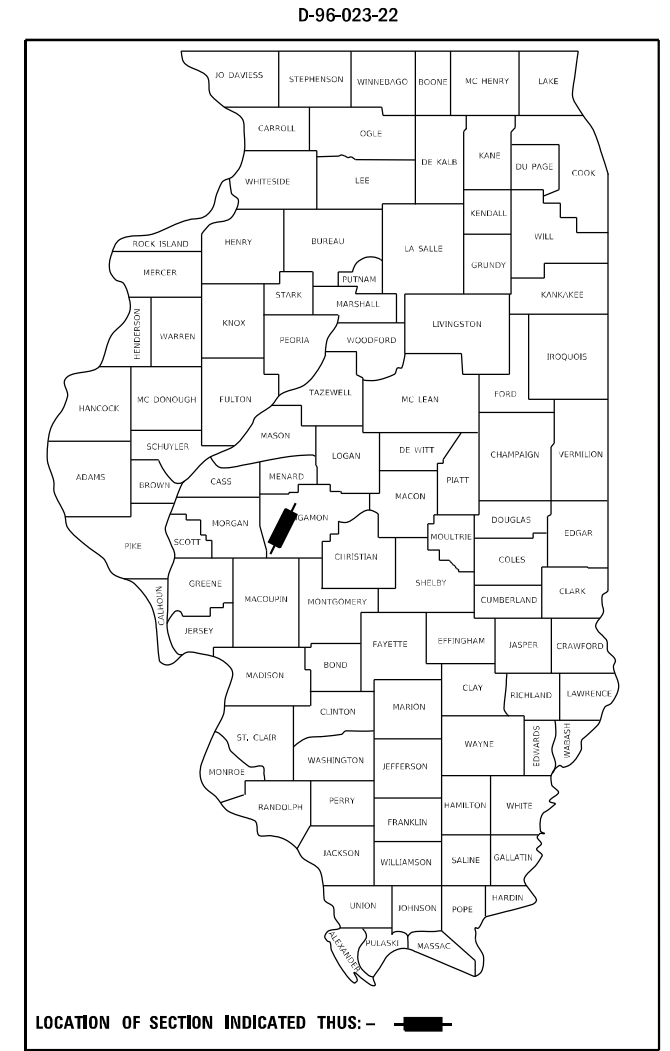
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	1
		ILLINOIS	CONTRACT NO. 72N46	

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, COMMITMENTS & STANDARDS
- 3-4 SUMMARY OF QUANTITIES
- 5 SCHEDULE OF QUANTITIES
- 6 HORIZONTAL ALIGNMENT
- 7 TYPICAL SECTIONS
- 8 ROADWAY PLAN
- 9 PAVEMENT MARKING PLAN
- 10 GUARDRAIL PLAN
- 11-12 STAGING PLAN
- 13-14 TRAFFIC CONTROL STANDARD 701316 (SPECIAL)
- 15-16 BRIDGE PLANS
- 17-21 DETAILS

PROPOSED  
HIGHWAY PLANS

FAP 662 (IL 4)  
SECTION P(B-2)-BDR  
BRIDGE DECK OVERLAY  
PROJECT NHPP-350Q(353)  
SANGAMON COUNTY



FUNCT. CLASS.: OTHER PRINCIPAL ARTERIAL  
ADT: 6100 (2019)  
PV: 90.7%  
SU: 5.74%  
MU: 3.52%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 26 20 22

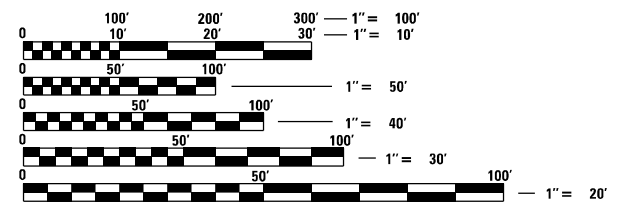
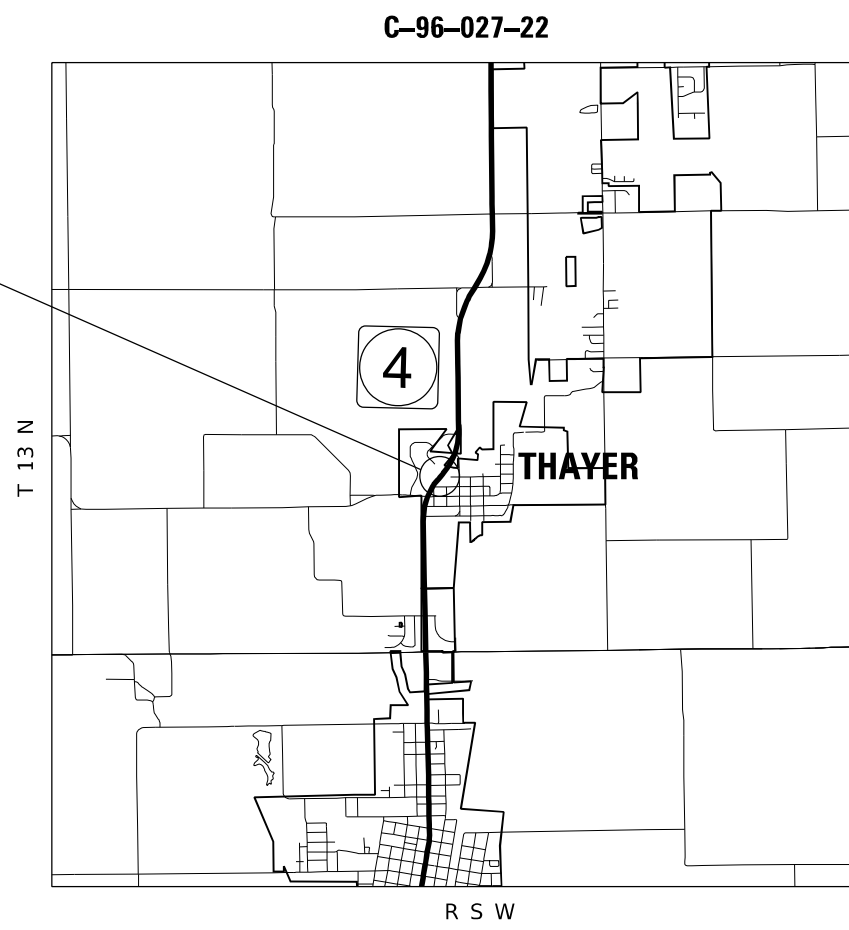
*Jeffrey P. Myers* REGIONAL ENGINEER  
October 14, 2022

*Scott A. Etk*  
ENGINEER OF DESIGN AND ENVIRONMENT  
October 14, 2022

*Stephen M. Smith*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

SN 084-0508  
IL-4 OVER SUGAR CREEK  
STA 181+85.18



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS  
1-800-892-0123  
OR 811

PROJECT ENGINEER: JON KELLEY (217) 785-2739  
PROJECT MANAGER: CLOYD JACK (217) 524-0064  
DESIGNER: FRANK CARABALLO (217) 524-7697  
CONTRACT NO. 72N46

GROSS LENGTH = 375.00 FT. = 0.071 MILE  
NET LENGTH = 175.00 FT. = 0.033 MILE

**GENERAL NOTES**

1. AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.
2. SYNTHETIC FIBERS ARE NOT REQUIRED IN THE BRIDGE DECK MICROSILICA CONCRETE OVERLAY.

**STANDARDS**

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031-17 TRAFFIC BARRIER TERMINAL, TYPE 6
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600 MM) FROM PAVEMENT EDGE
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
- 701316-13 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR FOR SPEEDS > 45 MPH
- 701901-08 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**COMMITMENTS**

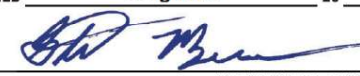
**APPLICATION RATES**

BITUMINOUS MATERIALS (TACK COAT)	0.05 LBS/SQ FT (MILLED SURFACE)
HOT-MIX ASPHALT MATERIAL	0.056 TON/SQ YD PER 1"
AGGREGATE WEDGE SHOULDER	1.60 TONS/CU YD


Mixture Use:	HMA Surface Course	HMA Shoulders
PG Grade:	PG 64-22	PG 64-23
Design Air Voids:	4.0% @ N50	4.0% @ N51
Mixture Composition:	IL-9.5	IL-9.6
Friction Aggregate:	Mix "D"	Mix "D"
Quality Management:	QC/QA	QC/QA
Sublot Size:	N/A	N/A

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
DISTRICT 6**


---

EXAMINED August 9 2022  
  
 ENGINEER OF OPERATIONS

---

EXAMINED August 3 2022  
  
 ENGINEER OF PROJECT IMPLEMENTATION

---

EXAMINED August 16 2022  
  
 ENGINEER OF PROGRAM DEVELOPMENT

REV. - MS

MODEL: D:\default  
 FILE: M:\mhc\p\illdot\paw\hendery.com\PROJECTS\DISTRICT 6\PROJECTS\DISTRICT 6\72N46\8-23-2022\8-23-2022.dgn

USER NAME = Frank.Caraballo	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES  
& COMMITMENTS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	2
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72N46	

CODE	ITEM	UNIT	TOTAL RURAL	6-01506-0000
				80% FEDERAL 20% STATE BRIDGE 0059 SN 084-0508
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1063	1063
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	347	347
40600990	TEMPORARY RAMP	SQ YD	92	92
40604060	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N50	TON	143	143
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	23	23
48203100	HOT-MIX ASPHALT SHOULDERS	TON	93	93
50300300	PROTECTIVE COAT	SQ YD	780	780
50300260	BRIDGE DECK GROOVING	SQ YD	740	740
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	608	608
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	958	958
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1

\* SPECIALTY ITEM

REV. - MS

MODEL: D:\default  
 FILE: M:\mhc\pww\illdot\pw\henderley.com\pww\illdot\Documents\DOT\_Offices\District\_8\Project\3057246\ICAD\3057246-01-500.dgn

USER NAME = Frank.Caraballo DESIGNED - DRAWN - PLOT SCALE = 100.0000' / in. CHECKED - PLOT DATE = 8/25/2022 DATE -	REVISED - REVISIONS - REVISIONS - REVISIONS -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE. 662 SECTION P(B-2)-BDR COUNTY SANGAMON TOTAL SHEETS 21 SHEET NO. 3 CONTRACT NO. 72N46 ILLINOIS FED. AID PROJECT
SCALE:			SHEET OF SHEETS	STA. TO STA.

CODE	ITEM	UNIT	TOTAL RURAL	6-01506-0000	
				80% FEDERAL 20% STATE BRIDGE 0059 SN 084-0508	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	30	30	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	76	76	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	26	26	
72501000	TERMINAL MARKER = DIRECT APPLIED	EACH	4	4	
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	3028	3028	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	30	30	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6	
78300201	PAVEMENT MARKING REMOVAL, GRINDING	SQ FT	973	973	
X6024503	INLETS TO BE ADJUSTED WITH NEW FRAME AND GRATE (SPECIAL)	EACH	2	2	
X7010200	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316 (SPECIAL)	EACH	1	1	
X7200201	WIDTH RESTRICTION SIGNING	LSUM	1	1	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	780	780	
Z0012164	BRIDGE DECK MICROSILICA OVERLAY 2 1/2"	SQ YD	780	780	
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE 1)	SQ YD	5	5	
Z0041895	POLYMER CONCRETE	CU FT	5	5	

\* SPECIALTY ITEM

MODEL: D:\default  
 FILE: M:\mhc\p\illinois\p\illinois\p\illinois\DOT\_Offices\District\_8\Project\0672N46\0672N46-18-500.dgn

USER NAME = Frank.Caraballo	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -						662	P(B-2)-BDR	SANGAMON	21	4
PLOT DATE = 8/25/2022	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 72N46		
DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT								

PAVING SCHEDULE										
LOCATION				40600290	40600982	40604060	48102100	48203100		
STATION	TO	STATION	WIDTH	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURF. REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	AGGREGATE WEDGE SHOULDER - TYPE B	HOT-MIX ASPHALT SHOULDERS		
				FOOT	POUND	SQ YD	TON	TON	TON	
<b>MAINLINE</b>										
178+00	-	178+50	22	56	169	13				
178+50	-	180+98	22	273		60				
<b>BRIDGE OMISSION</b>										
182+71	-	185+07	22	259		57				
185+07	-	185+57	22	56	178	13				
<b>SHOULDERS</b>										
178+00	LT	-	180+98	LT	VARIABLES	90		7	20	
178+00	RT	-	180+98	RT	VARIABLES	122		7	27	
182+71	LT	-	185+57	LT	VARIABLES	119		6	26	
182+71	RT	-	185+57	RT	VARIABLES	88		3	20	
				<b>TOTALS</b>		<b>1,063</b>	<b>347</b>	<b>143</b>	<b>23</b>	<b>93</b>

PAVEMENT MARKING SCHEDULE										
LOCATION			DESCRIPTION	70300100	70300150	78001120	78300200	78300201		
STATION	TO	STATION		SHORT-TERM PAVEMENT MARKING	SHORT-TERM PAVEMENT MARKING REMOVAL	PAINT PAVEMENT MARKING - LINE 5"	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	PAVEMENT MARKING REMOVAL	GRINDING	
				TYPE	COLOR	FOOT	SQ FT	FOOT	EACH	SQ FT
178+00	CL	-	185+57	CL	SKIP DASH	YELLOW	75.7	26		
178+00	LT	-	185+57	LT	SOLID EDGE LINE	WHITE			757	
178+00	CL	-	185+57	CL	DOUBLE SOLID CENTERLINE	YELLOW			1514	
178+00	RT	-	185+57	RT	SOLID EDGE LINE	WHITE			757	
178+00		-	180+98						3	
182+71		-	185+57						3	
178+00	LT	-	180+98	LT	EDGE LINE REMOVAL				124	
178+00	CL	-	180+98	CL	DBL CENTERLINE REMOVAL				248	
178+00	RT	-	180+98	RT	EDGE LINE REMOVAL				124	
<b>BRIDGE OMISSION</b>										
182+71	LT	-	185+57	LT	EDGE LINE REMOVAL				119	
182+71	CL	-	185+57	CL	DBL CENTERLINE REMOVAL				238	
182+71	RT	-	185+57	RT	EDGE LINE REMOVAL				119	
				<b>TOTALS</b>		<b>76</b>	<b>26</b>	<b>3,028</b>	<b>6</b>	<b>973</b>

GUARDRAIL SCHEDULE									
LOCATION			63000001	63100085	63100167	63200310	78200005		
STATION	TO	STATION	STEEL PLATE BEAM GUARDRAIL, TYPE A 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL TANGENT)	GUARDRAIL REMOVAL	GUARDRAIL REFLECTORS TYPE A		
			FOOT	EACH	EACH	FOOT	EACH		
179+45.0	LT	-	179+95.0	LT			1	50.0	
179+95.0	LT	-	180+91.0	LT	96.0			96.0	
180+91.0	LT	-	181+28.5	LT		1		37.5	
182+40.0	LT	-	182+77.5	LT		1		37.5	
182+77.5	LT	-	184+85.5	LT	208.0			208.0	
184+85.5	LT	-	185+35.5	LT			1	50.0	
178+33.0	RT	-	178+83.0	RT			1	50.0	
178+83.0	RT	-	180+91.0	RT	208.0			208.0	
180+91.0	RT	-	181+28.5	RT		1		37.5	
182+40.0	RT	-	182+77.5	RT		1		37.5	
182+77.5	RT	-	183+73.5	RT	96.0			96.0	
183+73.5	RT	-	184+23.5	RT			1	50.0	
179+45.0	LT	-	181+28.5	LT					6
182+40.0	LT	-	185+35.5	LT					9
178+33.0	RT	-	181+28.5	RT					9
182+40.0	RT	-	184+23.5	RT					6
			<b>TOTALS</b>		<b>608</b>	<b>4</b>	<b>4</b>	<b>958</b>	<b>30</b>

TEMPORARY RAMPS						
LOCATION		DESCRIPTION	LENGTH	WIDTH	40600990 TEMPORARY RAMP	
STATION TO STATION						FOOT
			<i>1:40 Taper Rate</i>			
178+00.0	-	178+06.0	MAINLINE & SHOULDERS	6	28.00	19.0
180+98.6	-	180+92.6	MAINLINE & SHOULDERS	6	39.50	27.0
<b>BRIDGE OMISSION</b>						
182+71.8	-	182+77.8	MAINLINE & SHOULDERS	6	39.50	27.0
185+57.0	-	185+51.0	MAINLINE & SHOULDERS	6	28.00	19.0
<b>TOTAL</b>					<b>92</b>	

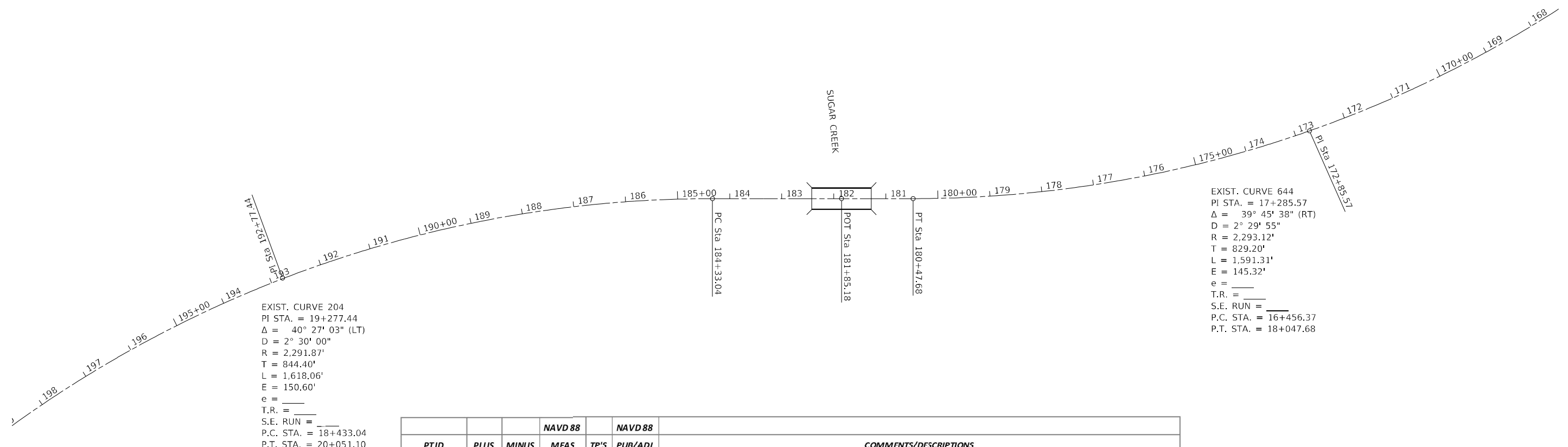
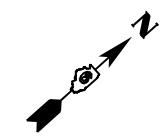
MODEL: D:\draft  
 FILE NAME: P:\bldg\work\Bentley.com\PWIDOT\summe\ndot\office\Dir\cctc\_@Proje\3D\27246\CAD\data\_5510\Cl\bushect\0527246\glt-schedule.dgn

USER NAME = Frank.Caraballo	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/23/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
--------	-------	----	--------	------	---------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	5
CONTRACT NO. 72N46				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE 204  
 PI STA. = 19+277.44  
 $\Delta = 40^\circ 27' 03''$  (LT)  
 D =  $2^\circ 30' 00''$   
 R = 2,291.87'  
 T = 844.40'  
 L = 1,618.06'  
 E = 150.60'  
 e = \_\_\_\_\_  
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 18+433.04  
 P.T. STA. = 20+051.10

EXIST. CURVE 644  
 PI STA. = 17+285.57  
 $\Delta = 39^\circ 45' 38''$  (RT)  
 D =  $2^\circ 29' 55''$   
 R = 2,293.12'  
 T = 829.20'  
 L = 1,591.31'  
 E = 145.32'  
 e = \_\_\_\_\_  
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 16+456.37  
 P.T. STA. = 18+047.68

PTID	PLUS	MINUS	NAVD 88 MEAS	TP'S	NAVD 88 PUB/ADJ	COMMENTS/DESCRIPTIONS
BM 101				0	<b>642.244</b>	found railroad spike in powerpole NW quad IL4 & Sugar Creek Subdivision N of Thayer, 3.0 mile S of Jct with IL104 in Auburn
BM IL4-4A		14.455		2	<b>627.789</b>	chslid [] center W hdwl culvert under IL4 approx 150 ft N of Harrison Ave
BM 084-0503		4.923		3	<b>622.866</b>	chslid [] NW wingwall/abutment bridge str #084-0503 on Old Rt4 spur (Harrison Ave) in Thayer
BM 084-0508B	5.811			6	<b>628.677</b>	chslid [] NE wingwall/abutment bridge over Sugar Creek str #084-0508
BM 084-0508A	0.146			7	<b>628.823</b>	chslid [] SE wingwall/abutment bridge over Sugar Creek str #084-0508
BM 084-3431		0.903		10	<b>629.726</b>	found alum disc stamped SCHED SW wingwall/abutment bridge str #084-3431 on Thayer Rd
BM IL4-5A		26.505		15	<b>656.231</b>	60 d spike nail in backside powerpole #202 W side IL4 & just N of a field ent
BM IL4-6A		4.840		18	<b>651.391</b>	60 d spike nail in powerpole W side IL4, 0.4 mile S of Sycamore St
BMCH-12	2.476			21	<b>653.868</b>	set chslid [] NW corner Prairie Temple Assembly of God Church sign foundation, 4.3 mile S along IL4 from jct with IL104
						err -- -0.001 w/21 tp's -- no adj made

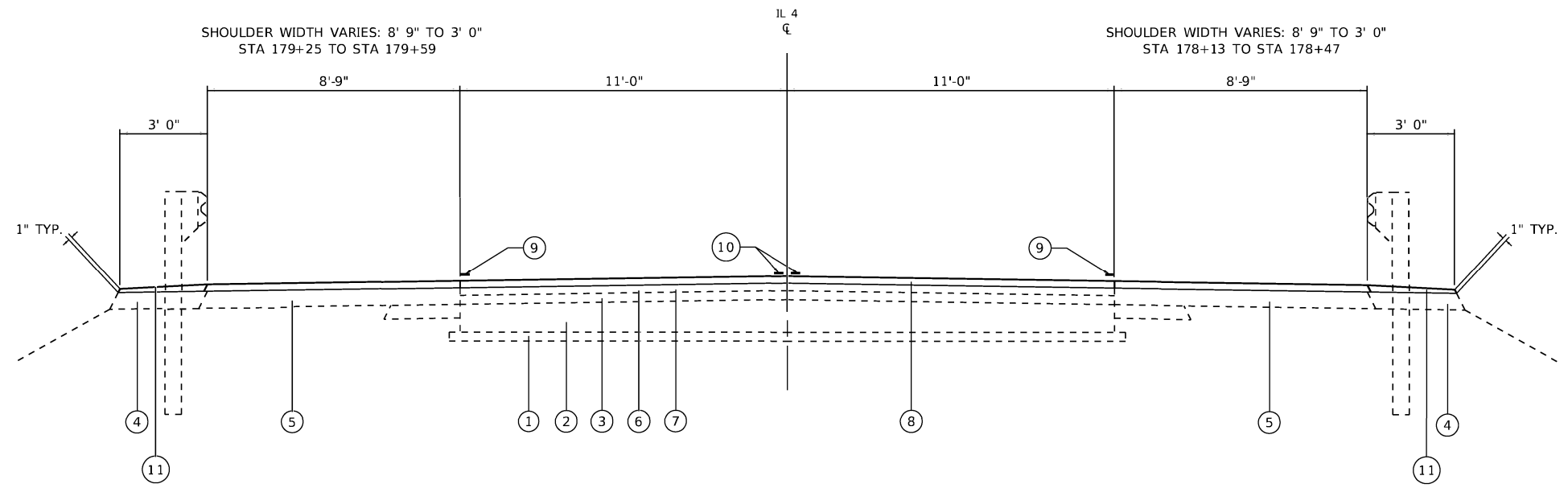
MODEL: Default  
 FILE: N:\M\F\_2022\Subcontract\Bentley.com\PIV\DOT\Documents\DOT\offices\Dirtrdr. El\Project\10672\N46\CAD\Draw\_5510\CAD\Sheet\0672\N46-sh-ATR.dgn

USER NAME = Frank,Caraballo	DESIGNED -	REVISED -
PLOT SCALE = 200,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 8/23/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

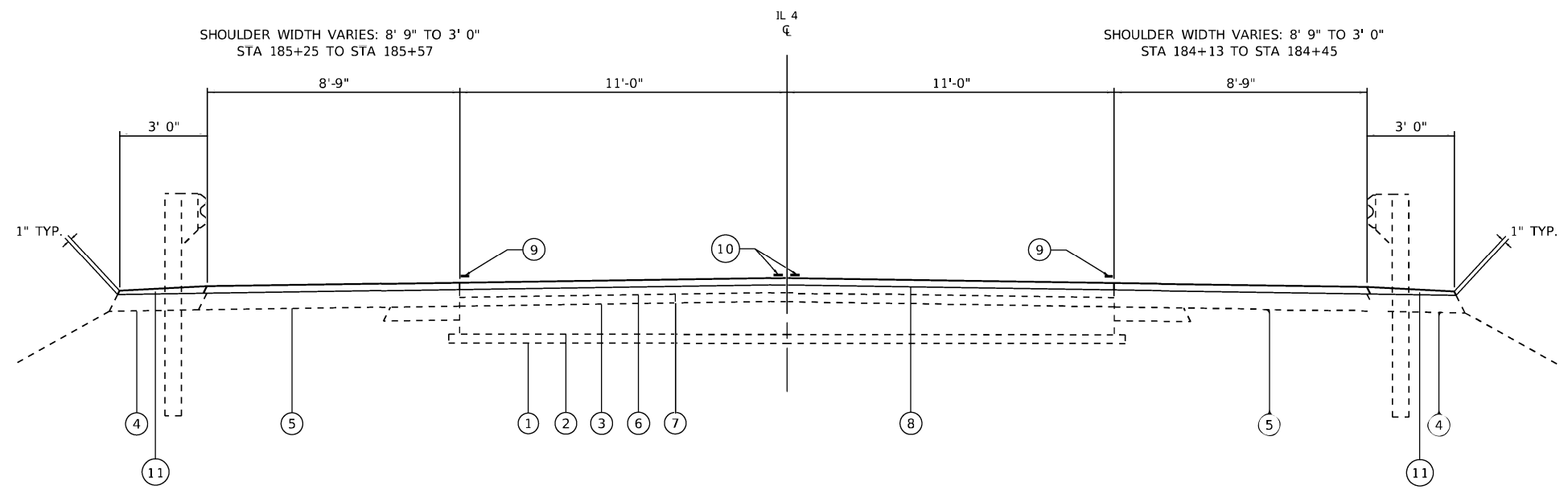
<b>HORIZONTAL ALIGNMENT &amp; BENCHMARKS</b>				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72N46	



GRADE TRANSITION FROM BRIDGE OVERLAY INTO EXISTING ROADWAY

TYPICAL SECTION - NORTH  
STA 178+50 TO STA 180+98



GRADE TRANSITION FROM BRIDGE OVERLAY INTO EXISTING ROADWAY

TYPICAL SECTION - SOUTH  
STA 182+71 TO STA 185+07

**LEGEND**

- ① EXIST. GRANULAR SUB-BASE
- ② EXIST. P.C.C. PAVEMENT (8")
- ③ EXIST. BIT. CONC. (3")
- ④ EXIST. AGG. SHOULDER
- ⑤ EXIST. BIT. SHOULDER (8")
- ⑥ EXIST. BIT. LEVEL BINDER (3/4")
- ⑦ EXIST. BIT. CONC. SURFACE CSE (1 1/2")
- ⑧ PROP. HOT-MIX ASPHALT SURFACE CSE, MIX D, N50 (1 3/4")
- ⑨ PR. PAINT PAVEMENT MARKING, LINE 5" (WHITE SOLID EDGE)
- ⑩ PR. PAINT PAVEMENT MARKING, LINE 5" (DOUBLE YELLOW SOLID CENTER)
- ⑪ PR. AGGREGATE WEDGE SHOULDER, TYPE B

MODEL: Default  
 FILE NAME: \\p1\dot-pw-bentley.com\p1\dot\Documents\DOT\_Offices\District 6\Projects\0672\46\CAD\Drawings\0672\46-sht-typical.dgn

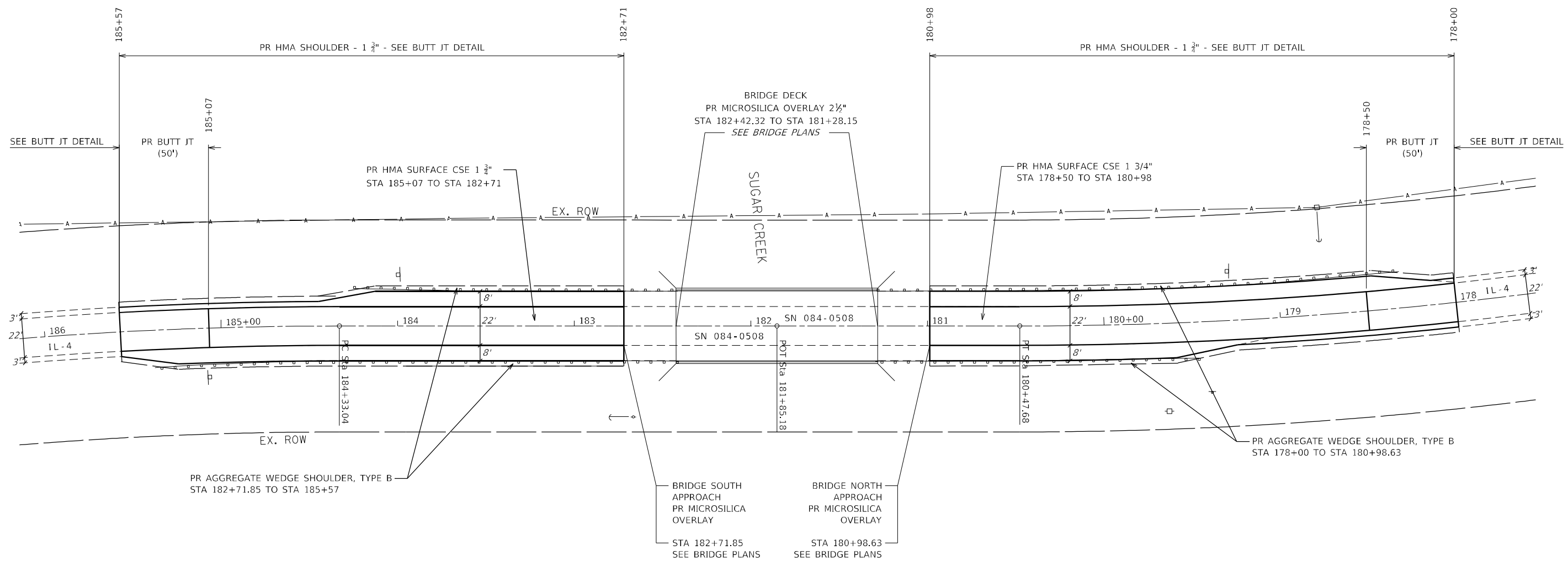
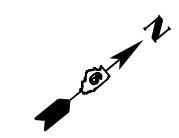
USER NAME = Frank.Caraballo	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/23/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	7
CONTRACT NO. 72N46				
ILLINOIS FED. AID PROJECT				



MODEL: Default  
 FILE NAME: p:\project\paw\_bentley.com\P\I\DOT\Documents\DOT Office\Dir\dir\_6\Project\0672\N46\CAD\Draw\_551\0672\Sheet\0672N46-8.tbl  
 PROJECT: 0672\N46\CAD\Draw\_551\0672\Sheet\0672N46-8.tbl

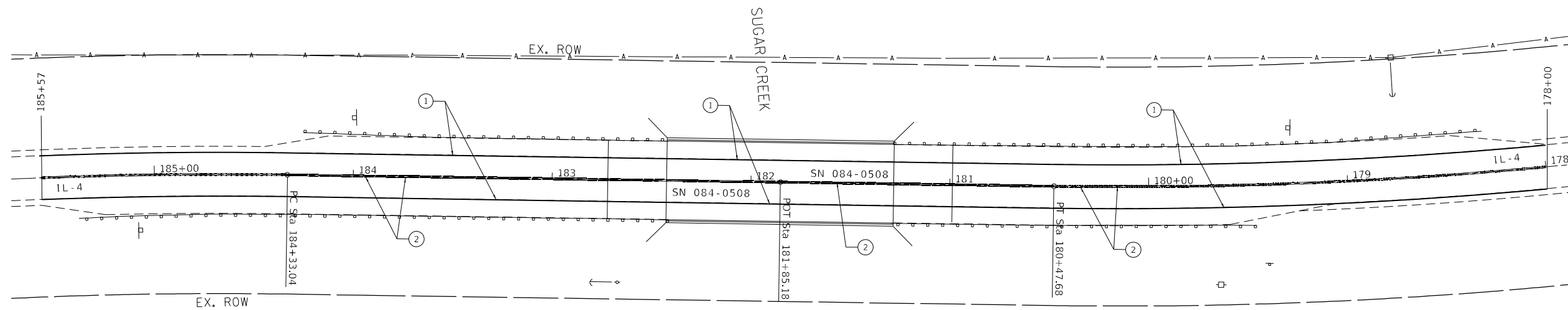
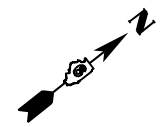
USER NAME = Frank,Caraballo	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = 60,0000 * / in.	CHECKED -	REVISOR -
PLOT DATE = 8/23/2022	DATE -	REVISOR -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE:		PLAN	
		IL 4	
SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	8
CONTRACT NO. 72N46				
ILLINOIS FED. AID PROJECT				





PAVEMENT MARKING LEGEND	
①	PAINT PAVEMENT MARKING - LINE 5" (SOLID WHITE)
②	PAINT PAVEMENT MARKING - DOUBLE CENTER LINE 5" (SOLID YELLOW)

MODEL: Default  
 FILE: Mainfile.pxl  
 SUBJECT: pav\_bentley.com:PIV\DOT\Documents\DOT\_offices\Dir\dir\_6\Project\0672N46\CAD\Draw\_55\DOT\0672N46\0672N46-01-01.dwg

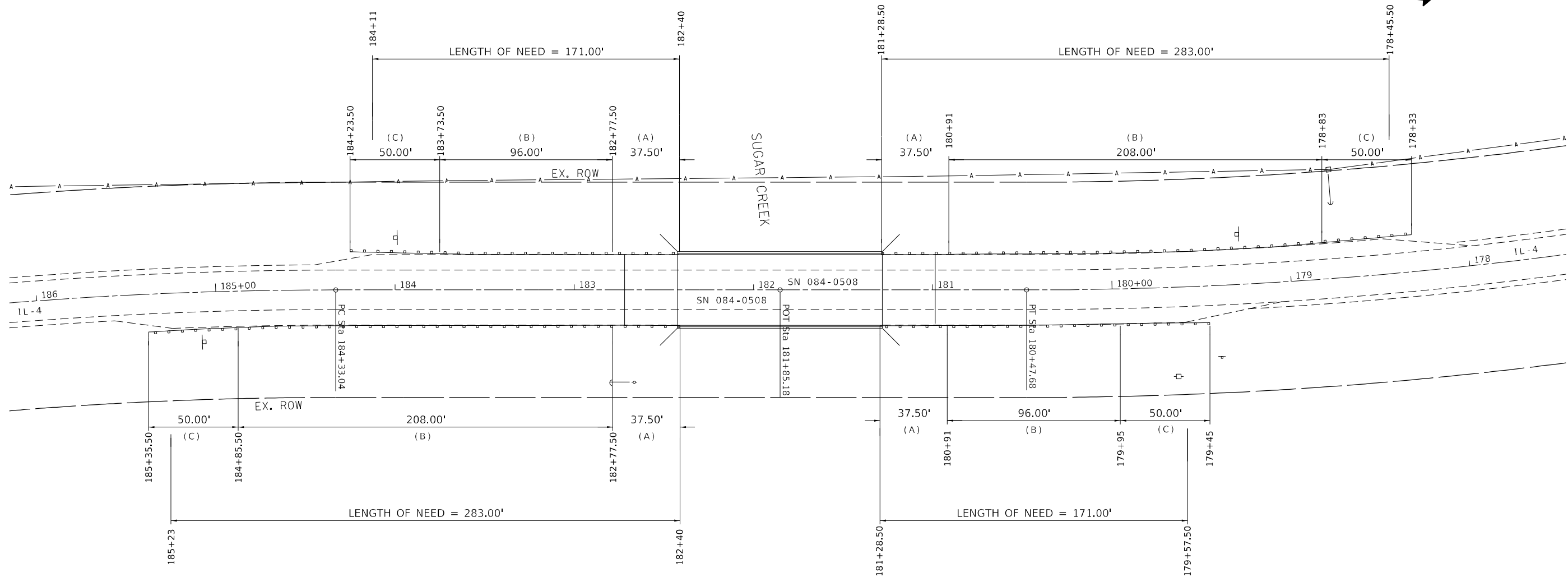
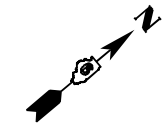
USER NAME = Frank.Caraballo	DESIGNED -	REVISED -
PLOT SCALE = 60,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 8/23/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN**  
**IL 4**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	9
CONTRACT NO. 72N46				
ILLINOIS FED. AID PROJECT				



- (A) = PAY LIMITS FOR PROPOSED TRAFFIC BARRIER TERMINAL, TYPE 6
- (B) = PAY LIMITS FOR STEEL PLATE BEAM GUARDRAIL, TYPE A, 6-FOOT POSTS
- (C) = PAY LIMITS FOR PROPOSED TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

NOTE: SEE STANDARD 782006-01 FOR GUARDRAIL REFLECTOR SPACING AND MOUNTING

MODEL: Default  
 FILE NAME: p:\project\paw\beefay.com\p\il\dot\Documents\DOT\Office\Dir\dir\_6\Project\0672\N46\CAD\Draw\_55\0\CD\Sheet\0672\N46-sh-guadrail.dgn

USER NAME = Frank,Caraballo	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 60,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

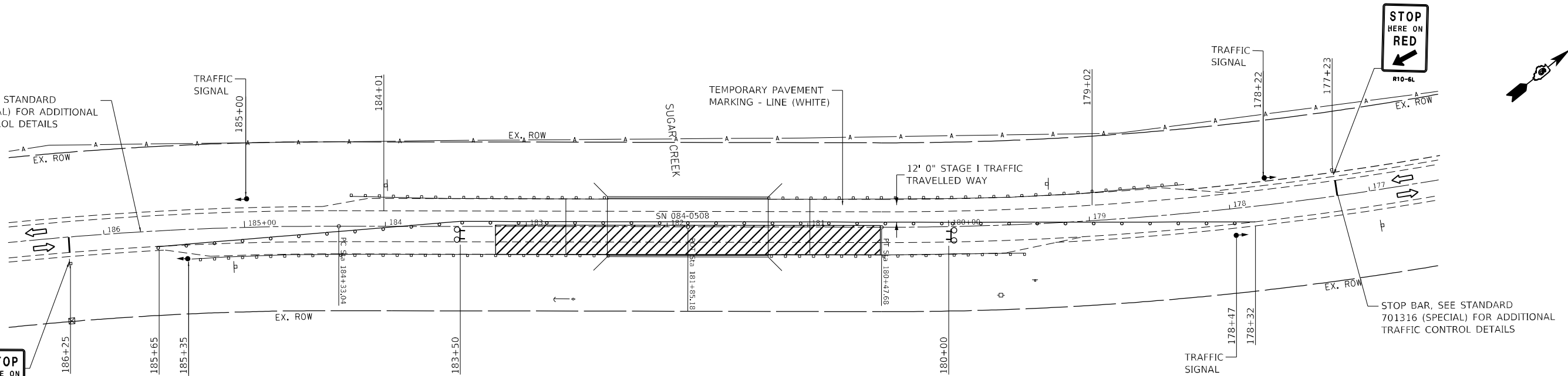
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL PLAN**  
**IL 4**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

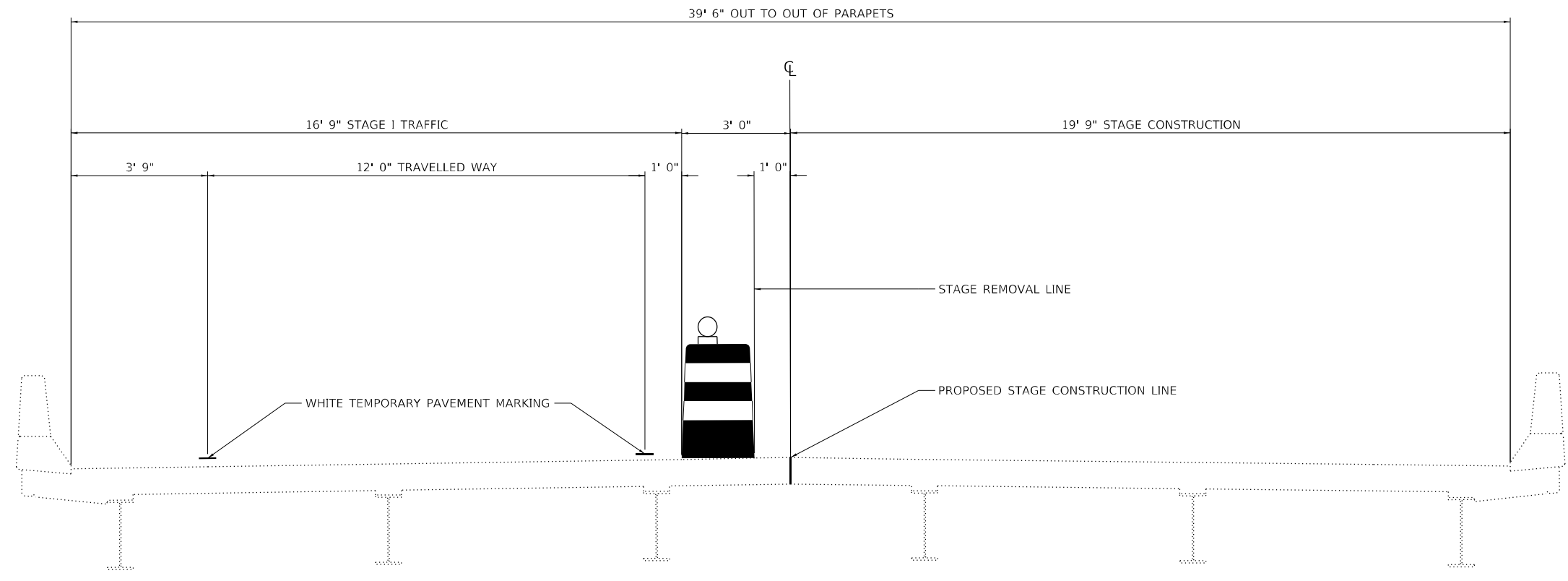
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	10
CONTRACT NO. 72N46				
ILLINOIS FED. AID PROJECT				

STOP BAR, SEE STANDARD 701316 (SPECIAL) FOR ADDITIONAL TRAFFIC CONTROL DETAILS



**LEGEND:**

- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC SIGNAL
- DRUM (25' SPACING)
- WORK AREA



STAGE I TRAFFIC CONTROL CROSS SECTION TYPICAL - LOOKING NORTH

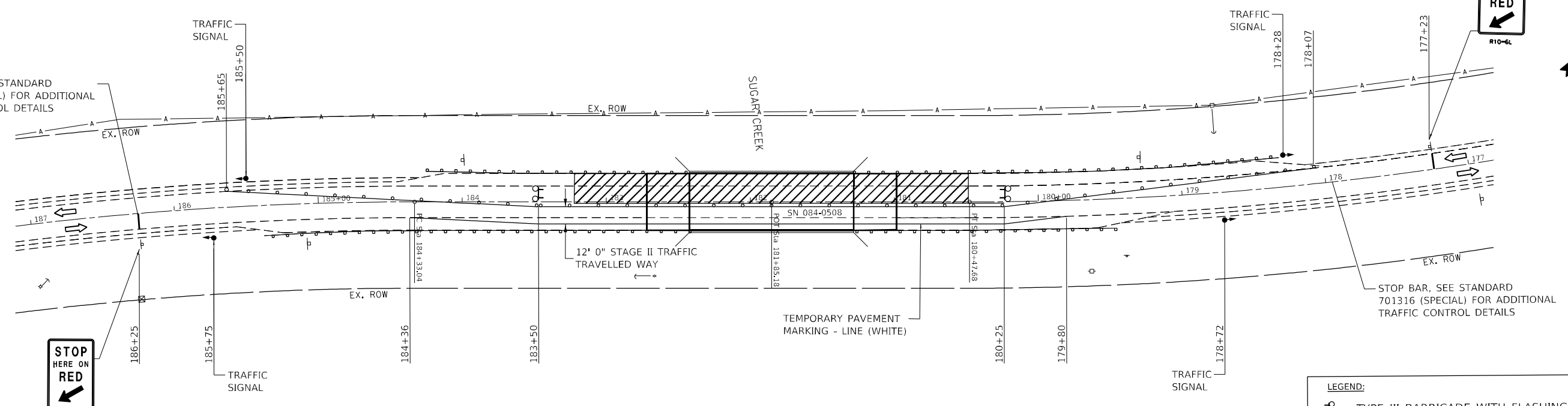
MODEL: Default  
 FILE NAME: p:\project\paw\beefay.com\p\DOT\Documents\DOT Office\Dir\Dir\Project\0672N46\CAD\Draw\_S5\DOT\0672N46\ch-Stage\_1.dgn  
 PROJECT: 0672N46

USER NAME = Frank.Caraballo	DESIGNED -	REVISED -
DRAWN -	REVISIONS -	
PLOT SCALE = 80,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

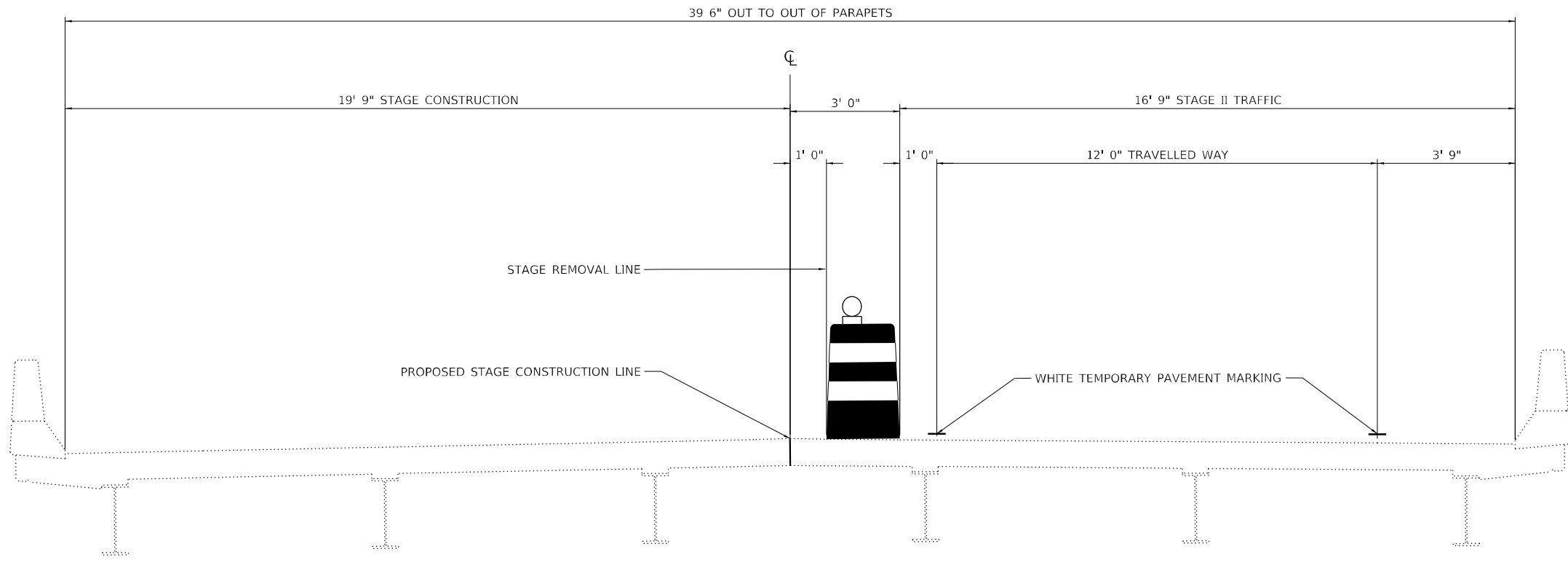
TRAFFIC CONTROL STAGE CONSTRUCTION PLAN				
STAGE I - NB LANE				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	11
CONTRACT NO. 72N46				
ILLINOIS FED. AID PROJECT				



**LEGEND:**

	TYPE III BARRICADE WITH FLASHING LIGHTS
	TRAFFIC SIGNAL
	DRUM (25' SPACING)
	WORK AREA



STAGE II TRAFFIC CONTROL CROSS SECTION TYPICAL - LOOKING NORTH

MODEL: Default  
 FILE NAME: p:\projects\dot\Documents\DOT Office\Dir\Dir: E:\Project\0672\68\CADD\DATA\_S5\DOT\CD\Sheet\0672\NUS-ht-Stage 2.dgn

USER NAME = Frank.Caraballo	DESIGNED -	REVISED -
DRAWN -	REVISIONS -	
PLOT SCALE = 80,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

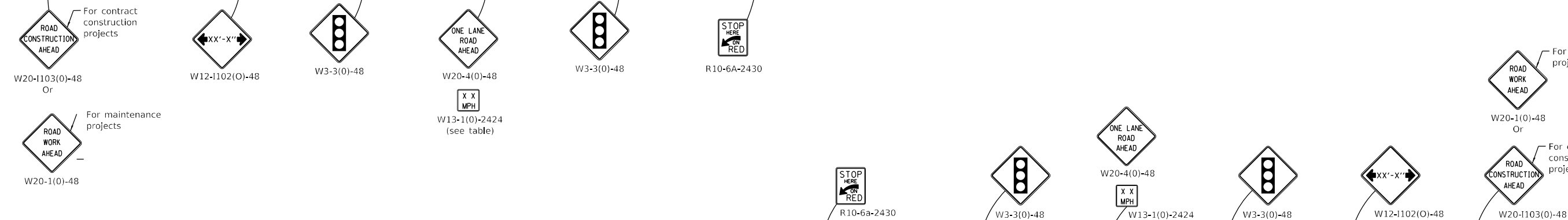
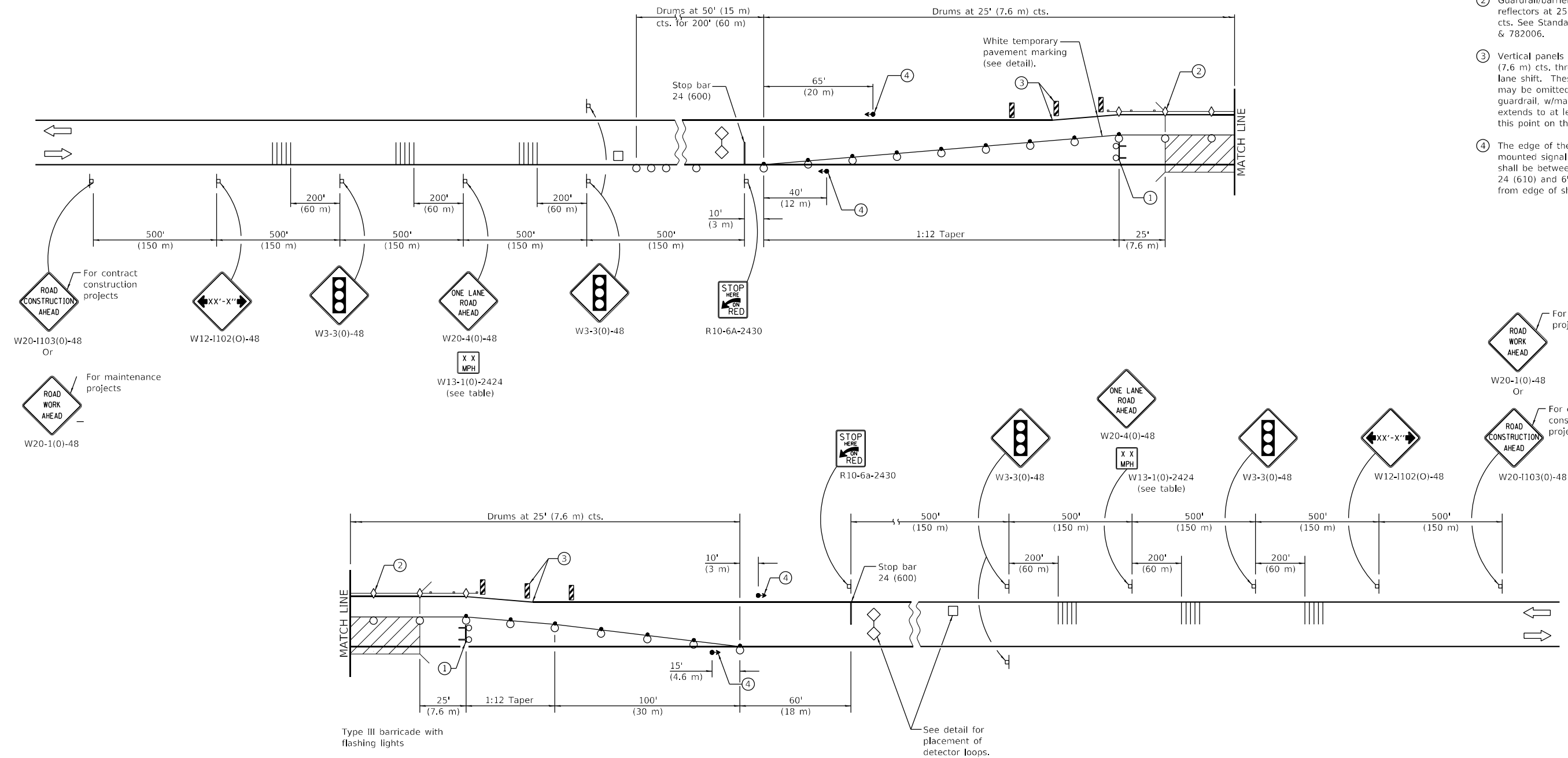
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL STAGE CONSTRUCTION PLAN**  
**STAGE II - SB LANE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	12
CONTRACT NO. 72N46				
ILLINOIS FED. AID PROJECT				

- ① Type III barricade to be placed when no work is being performed.
- ② Guardrail/barrier wall reflectors at 25' (7.6 m) cts. See Standards 704001 & 782006.
- ③ Vertical panels at 25' (7.6 m) cts. throughout lane shift. These devices may be omitted when the guardrail, w/markers, extends to at least this point on the taper.
- ④ The edge of the post mounted signal head shall be between 24 (610) and 6' (1.8 m) from edge of shoulder.



**SYMBOLS**

- Work area
- Sign
- Traffic signal
- Detector loops
- Type III barricade with flashing lights
- Drum with steady burn bi-directional light
- Temporary rumble strip (when specified)
- Crystal, bidirectional guardrail/barrier wall reflector
- Double vertical panel (see detail)
- Drum

See Sheet 2 for GENERAL NOTES.

MODEL: Default  
 FILE: \\nafile.pw.usdnet-pw.bea-defs.com\P\INDOT\Documents\DOT Office\Director\_E\Projects\0672\N46\CAD\Draw\_S\1\0\CD\Sheet\0672\N46\Sheet-Stage\_1.dgn

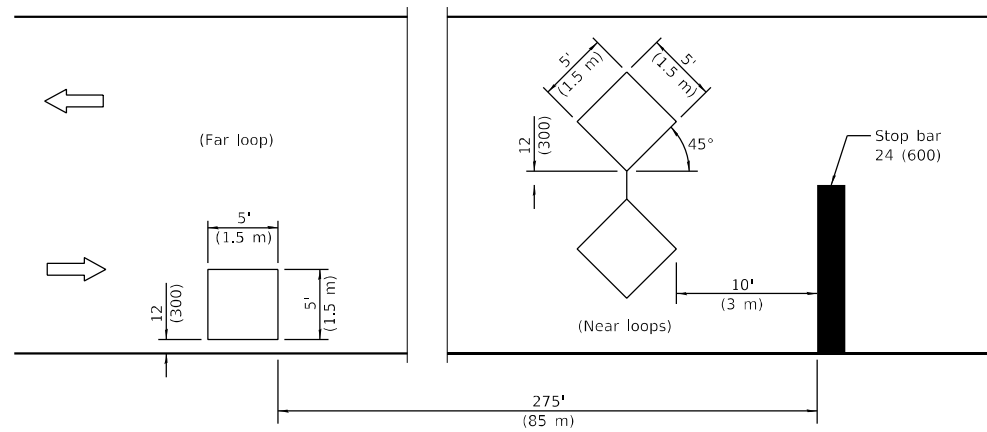
USER NAME = Frank.Caraballo	DESIGNED -	REVISD -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISD -
PLOT DATE = 8/23/2022	CHECKED -	REVISD -
	DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

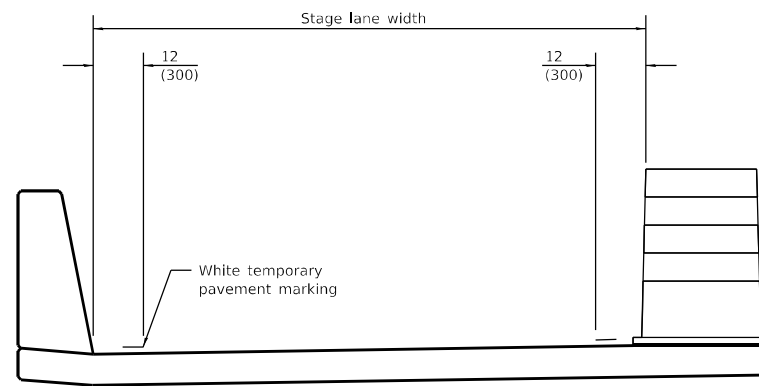
**TRAFFIC CONTROL AND PROTECTION  
STANDARD 701316 (SPECIAL)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	13
CONTRACT NO. 72N46				
ILLINOIS FED. AID PROJECT				



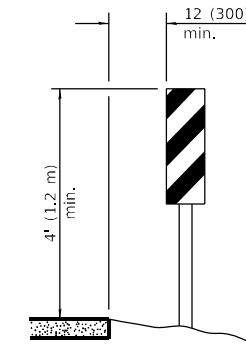
**DETECTOR LOOPS**



**TEMPORARY PAVEMENT MARKING**

TRAFFIC SIGNAL SEQUENCE						
PHASE	A			B		
INTERVAL	1	2	3	4	5	6
NORTHBOUND OR EASTBOUND	G	Y	R	R	R	R
SOUTHBOUND OR WESTBOUND	R	R	R	G	Y	R

ADVISORY SPEED LIMIT	
NORMAL POSTED SPEED	ADVISORY SPEED
55 - 45 mph	40 mph
40 mph	35 mph
35 - 30 mph	30 mph



**VERTICAL PANELS**

(Post mounted, one each side)

**GENERAL NOTES**

This Standard is used where, at any time any vehicle, equipment, workers or their activities will encroach on one lane of a bridge and traffic signals are required.

When traffic signals are not in operation, flaggers shall be used and traffic control devices shall conform to Standard 701201 or 701206.

Existing or temporary pavement markings shall be on both sides of open lane from stop bar to stop bar.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: Default  
FILE NAME: p:\ultra\paw.bentley.com\PIV\DOT\Documents\DOT Office\Dir\dir: E:\Project\10672\N46\CAD\Draw: S51\10672\N46\Sheet\Stage 1.dgn

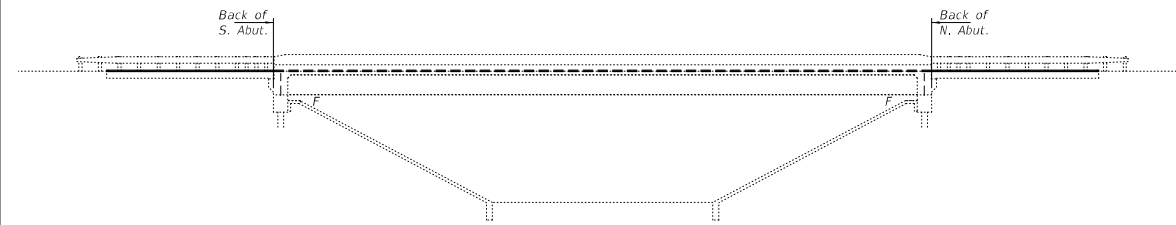
USER NAME = Frank.Caraballo	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION  
STANDARD 701316 (SPECIAL)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	14
			CONTRACT NO. 72N46	
ILLINOIS FED. AID PROJECT				

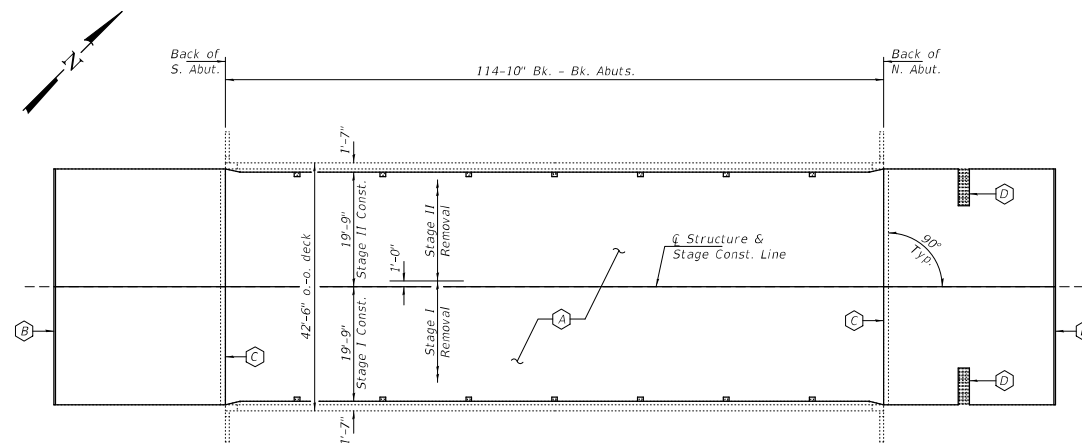


ELEVATION

**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

For treatment of inlets on approaches see Special Provision "Inlets to be Adjusted with Frame and Grate (Special)". For details of existing approach inlets, see sheet 3 of 3.



PLAN

- (A) - 2 1/2" Microsilica Concrete Overlay & 3/8" Bridge Deck Scarification
- (B) - Polymer Concrete Nosing - See sheet 2 of 3 for details.
- (C) - 1/2" x 3/8" Formed Joint - See sheet 2 of 3 for details.
- (D) - Inlets to be reconstructed with New Frame and Grates.



EXPIRES 11-30-2022

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Bridge Deck Microsilica Concrete Overlay, 2 1/2"	Sq. Yd.	780
Bridge Deck Scarification, 3/8"	Sq. Yd.	780
Polymer Concrete	Cu. Ft.	5
Bridge Deck Grooving	Sq. Yd.	740
Inlets to be Adjusted with New Frame and Grate (Special)	Each	2
Protective Coat	Sq. Yd.	780
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	5

\* Quantity is estimated, size of patches and location to be determined by the Engineer in the field.

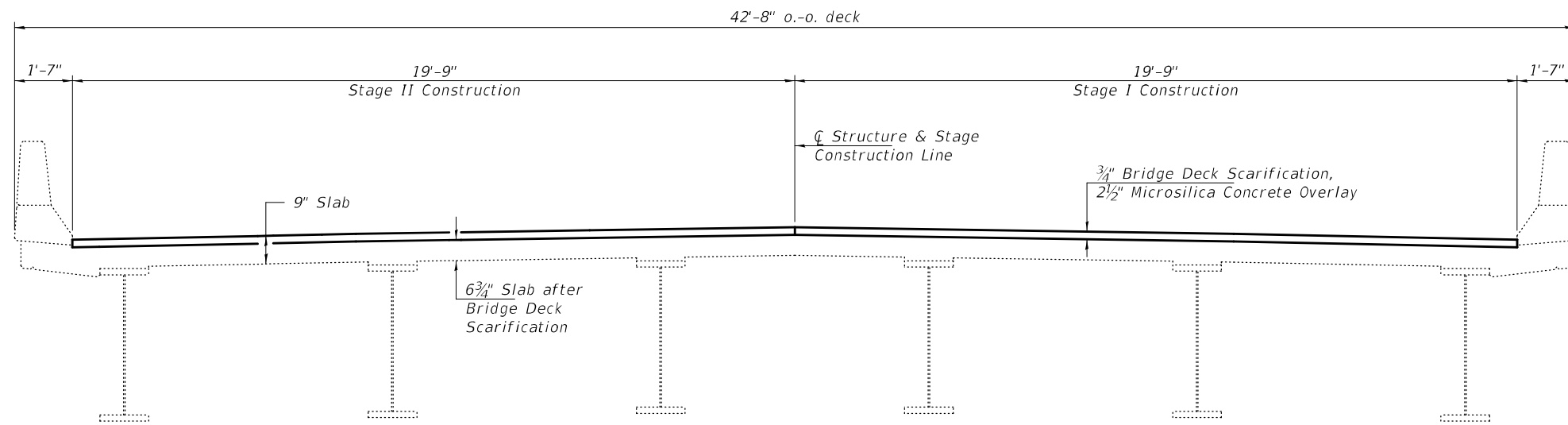
DESIGNED - Stephen M. Ryan	PASSED		DATE - SEPTEMBER 26, 2022
CHECKED - Adrian T. Halloway			REVISED -
DRAWN - dburdell			REVISED -
CHECKED - SMR ATH			REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET NO. 1 OF 3 SHEETS	

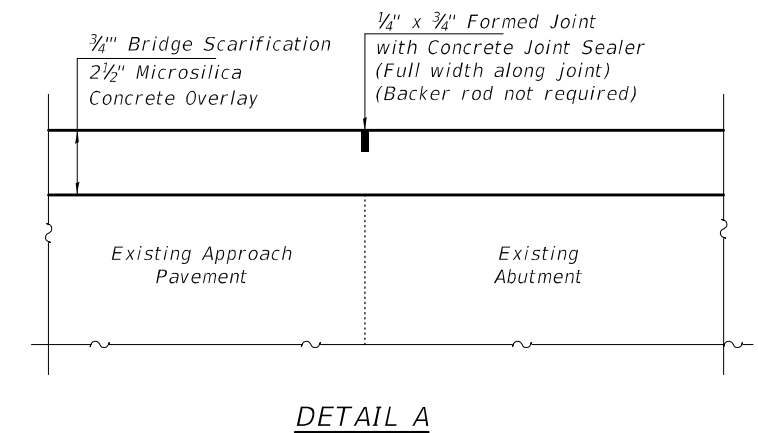
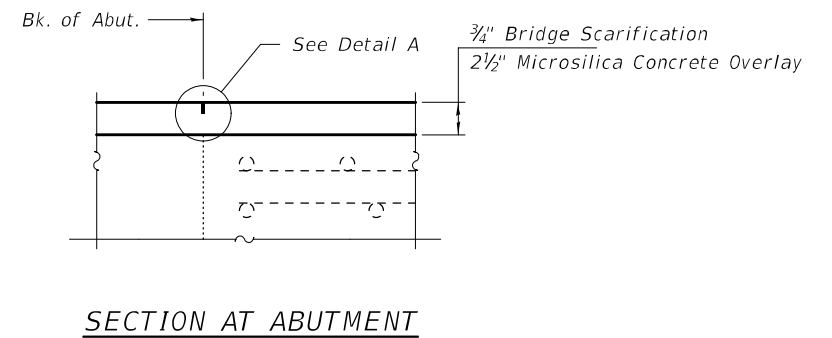
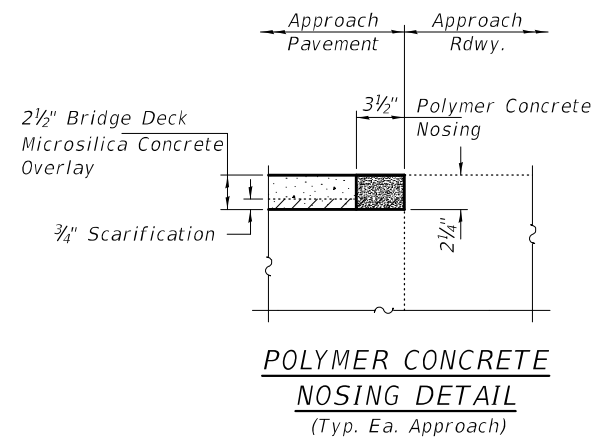
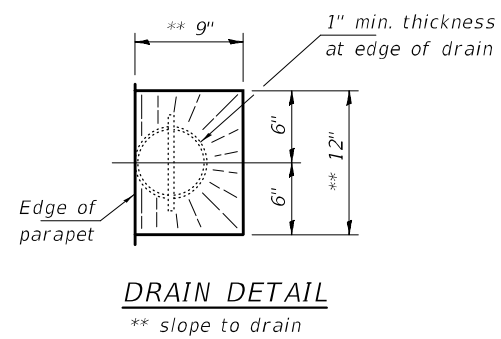
GENERAL PLAN AND ELEVATION FAP 662 (IL 4) OVER SUGAR CREEK SN 084-0508	
SHEET NO. 1 OF 3 SHEETS	

F.A.P. DIST. 662	SECTION PIB-2-BDR	COUNTY SANGAMON	TOTAL SHEETS 21	SHEET NO. 15
ILLINOIS			CONTRACT NO. 72N46	

ILLINOIS		CONTRACT NO. 72N46	
----------	--	--------------------	--



**CROSS SECTION THRU BRIDGE DECK**  
(Looking North)



DESIGNED - SMR
CHECKED - ATH
DRAWN - daburdell
CHECKED - SMR ATH

PASSED	<i>Joanna F. J. [Signature]</i>
ENGINEER OF BRIDGES AND STRUCTURES	

DATE - SEPTEMBER 26, 2022
REVISED -
REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

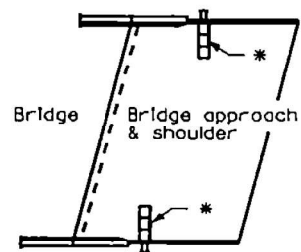
**STAGING CROSS SECTION**  
**SN 084-0508**

SHEET NO. 2 OF 3 SHEETS

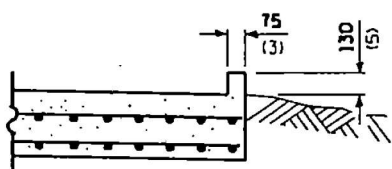
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	16
CONTRACT NO. 72N46				
ILLINOIS FED. AID PROJECT				



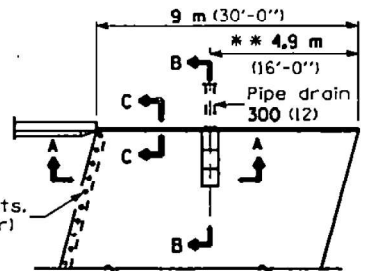
\* Type B, C, or D Inlet box as required.



**GENERAL PLAN**

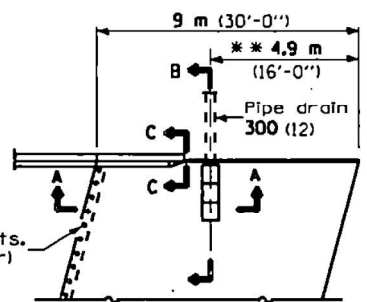


**SECTION C-C**



Tie bars at 300 (12) cts. (by Bridge Contractor)

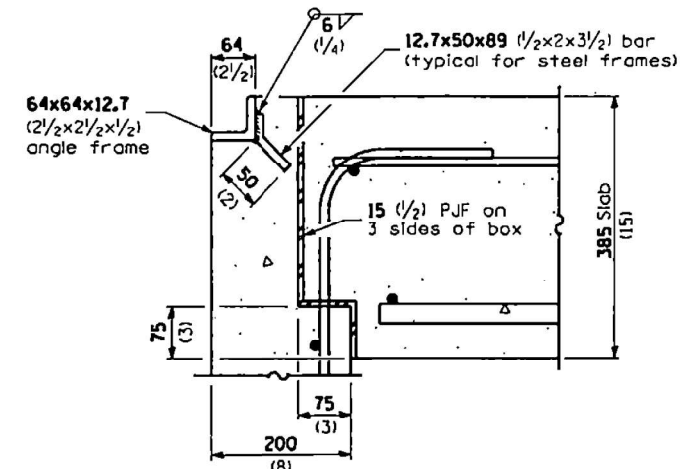
**TYPICAL DETAIL PLAN**  
(W/O Wingwall)



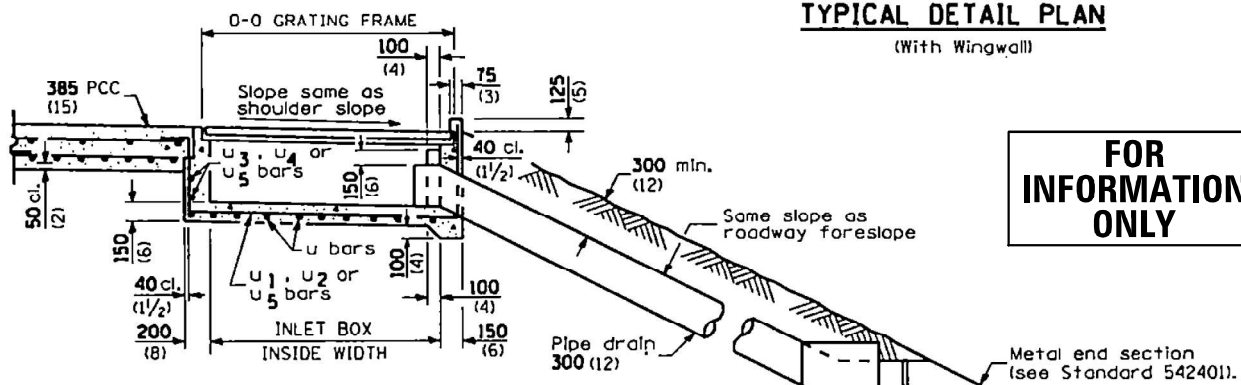
Tie bars at 300 (12) cts. (by Bridge Contractor)

**TYPICAL DETAIL PLAN**  
(With Wingwall)

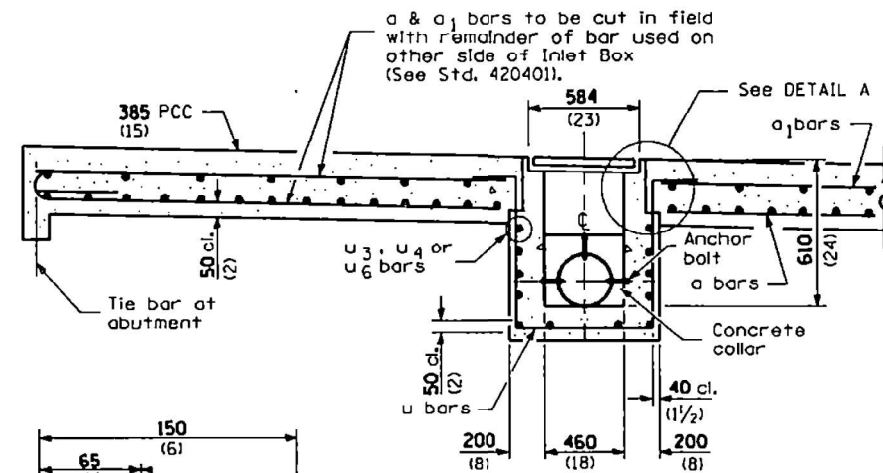
\*\* Vary this dimension as needed to position the Inlet Box and Pipe Drain between the proposed approach guardrail posts.



**DETAIL A**



**FOR INFORMATION ONLY**



**SECTION A-A**

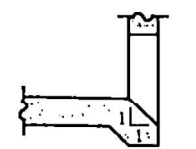
**ANCHOR BOLT**

(Used to tie pipe to concrete collar)

**GENERAL NOTES**

All exposed edges of the inlet, except the upper perimeter, shall be beveled 20 mm (3/4 inch).

All dimensions are in millimeters (inches) unless otherwise shown.



**BOX OUTLET WHEN PRECAST**

**SEC. B-B**

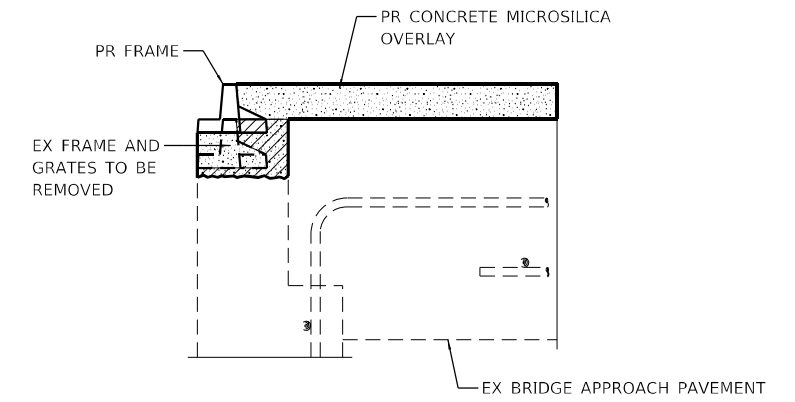
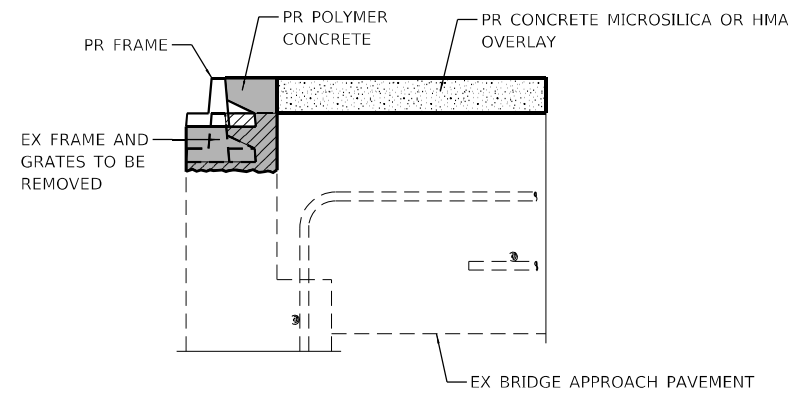
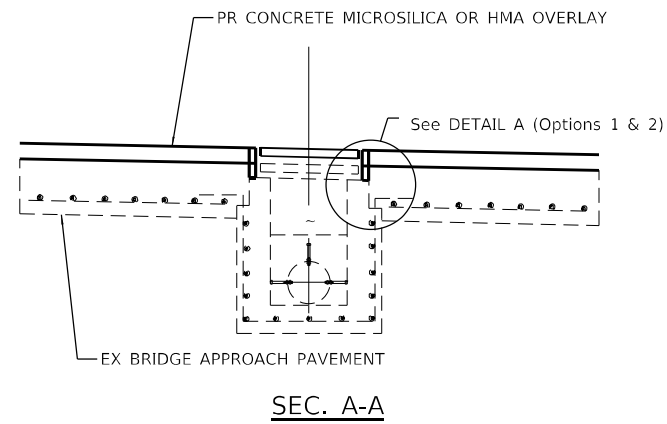
INLET TYPE	SHOULDER WIDTH	O-O GRATING FRAME	INLET BOX INSIDE WIDTH	INLET BOX INSIDE LENGTH
Type B	Less than 1.5 m (5')	0.690 m (2'-3")	0.560 m (1'-10")	460 (18)
Type C	1.5 - 1.8 m (5' - 6')	1.325 m (4'-4")	1.195 m (3'-11")	460 (18)
Type D	Greater than 1.8 m (6')	1.960 m (6'-5")	1.830 m (6'-0")	460 (18)

Illinois Department of Transportation  
 PASSED January 1, 1998  
 ENGINEER OF POLICE AND PROCEDURES  
 APPROVED January 1, 1998  
 ENGINEER OF DESIGN AND ENVIRONMENT

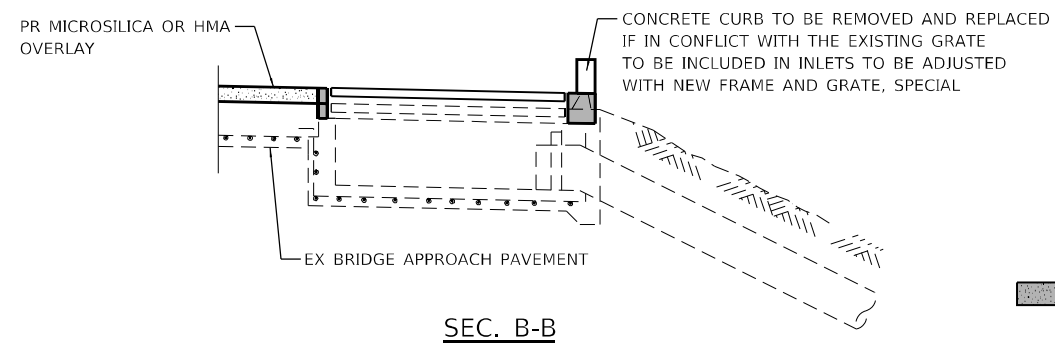
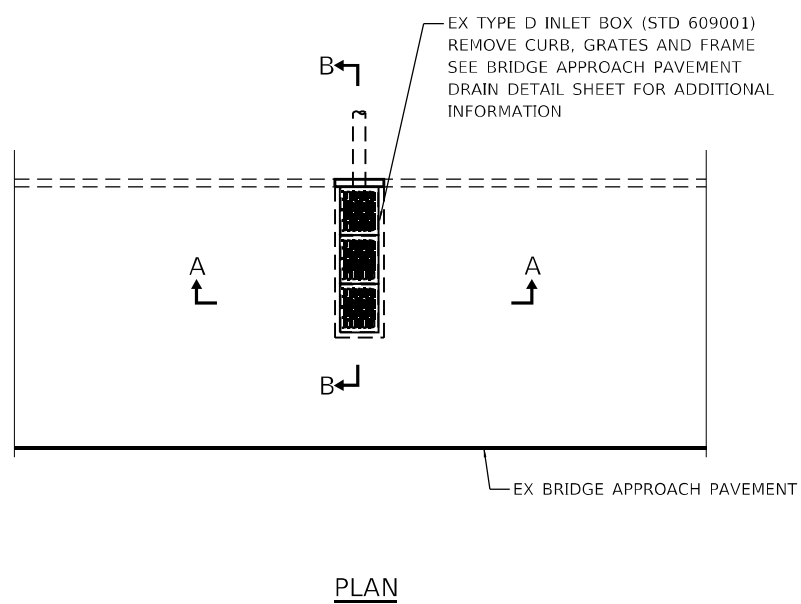
**BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)**  
 (Sheet 1 of 2)  
**STANDARD 609006-01**

DATE	REVISIONS
1-1-98	Rev. ref. to "542101" to read "542401".
1-1-97	Renum. Standard 2443-3.

DETAIL: INLET BOXES TO BE ADJUSTED



- POLYMER CONCRETE
- CONCRETE REMOVAL
- CONCRETE MICROSILICA OR HMA OVERLAY



- CONCRETE MICROSILICA OR POLYMER CONCRETE  
SEE OPTIONS 1 & 2 ABOVE

MODEL: Default  
 FILE: \\nafe\p\build\paw\benefy.com\PIV\DOT\Documents\DOT\_Civil\es\District\_6\Project\10672\46\CAD\Draw\_5510\CAD\Sheet\0672N46-sh1-draw.rvt

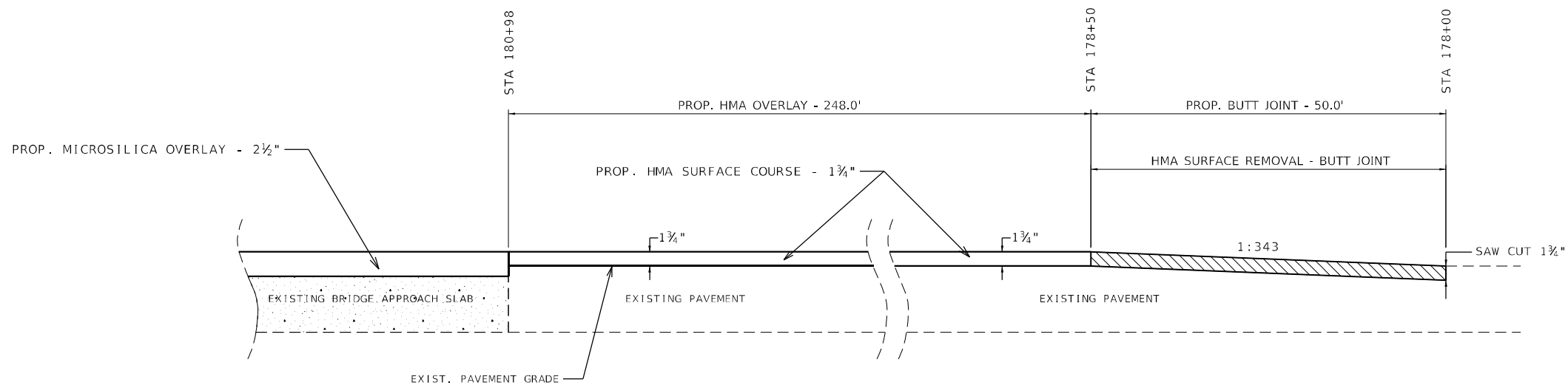
USER NAME = Frank.Caraballo	DESIGNED -	REVISED -
DRAWN -	REVISIONS -	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISIONS -
PLOT DATE = 8/24/2022	DATE -	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

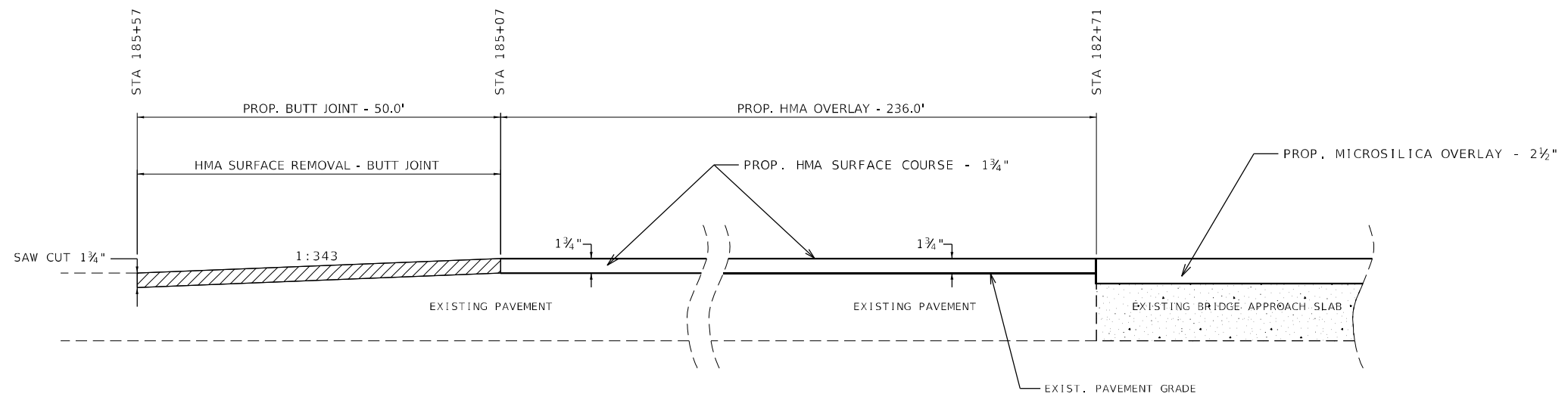
**INLET BOXES TO BE ADJUSTED - DETAIL**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	18
CONTRACT NO. 72N46			ILLINOIS FED. AID PROJECT	



MAINLINE & SHOULDER TRANSITION  
(NORTH)



MAINLINE & SHOULDER TRANSITION  
(SOUTH)

MODEL: Default  
 FILE: Mainline\_Plan\_Subsurface.bentley.com:PIV\DOT\Documents\DOT Office\Director: E:\Project\0672\N46\CAD\Draw: S51\0\0\0\Sheet\0672N46-sh-draw.rvt.dwg

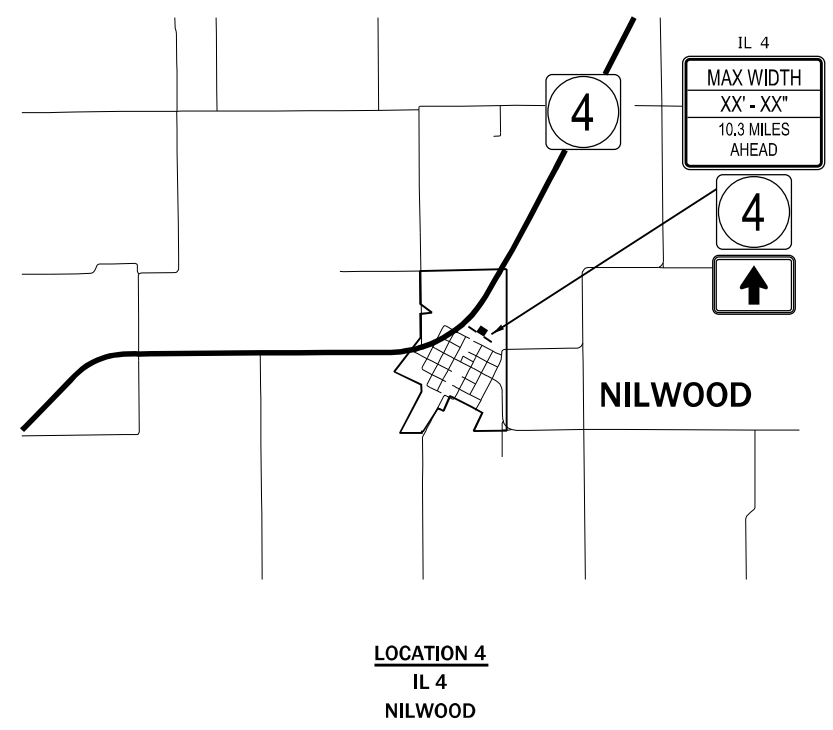
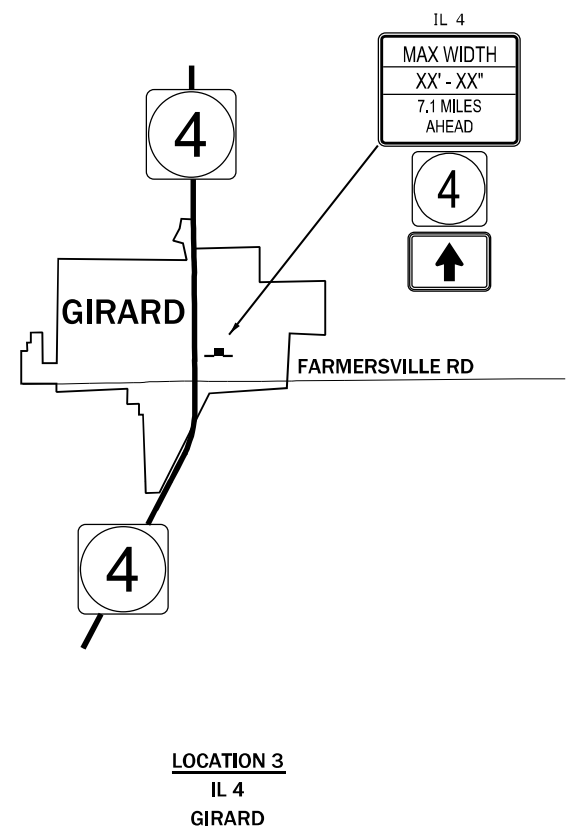
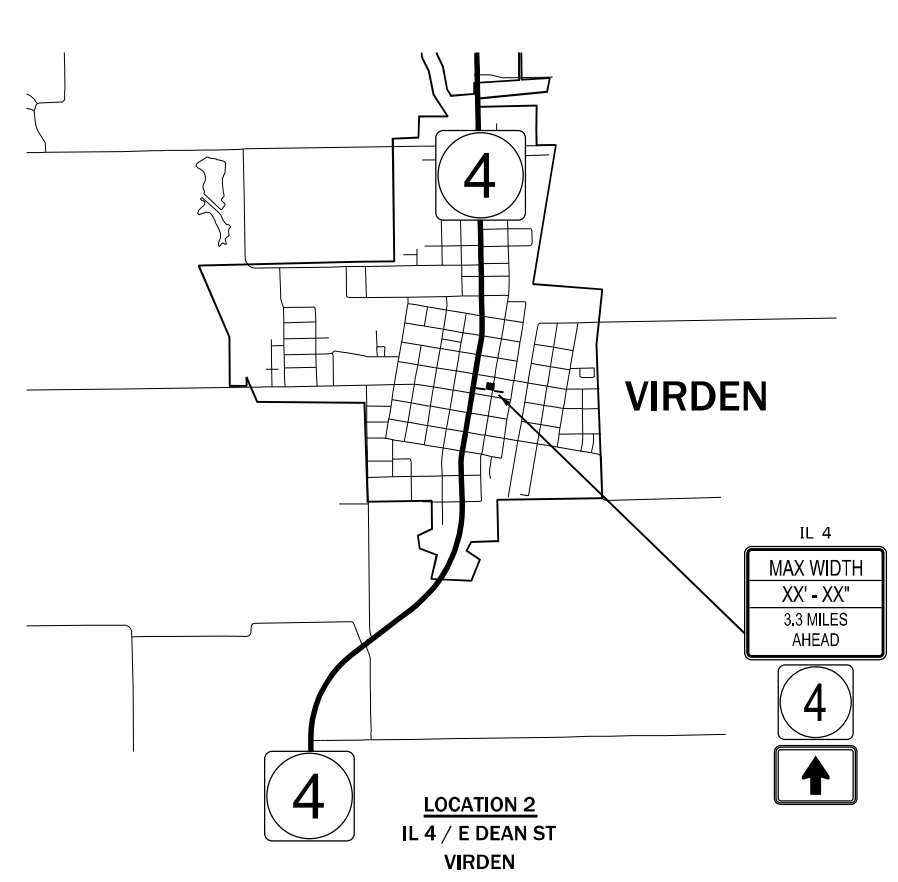
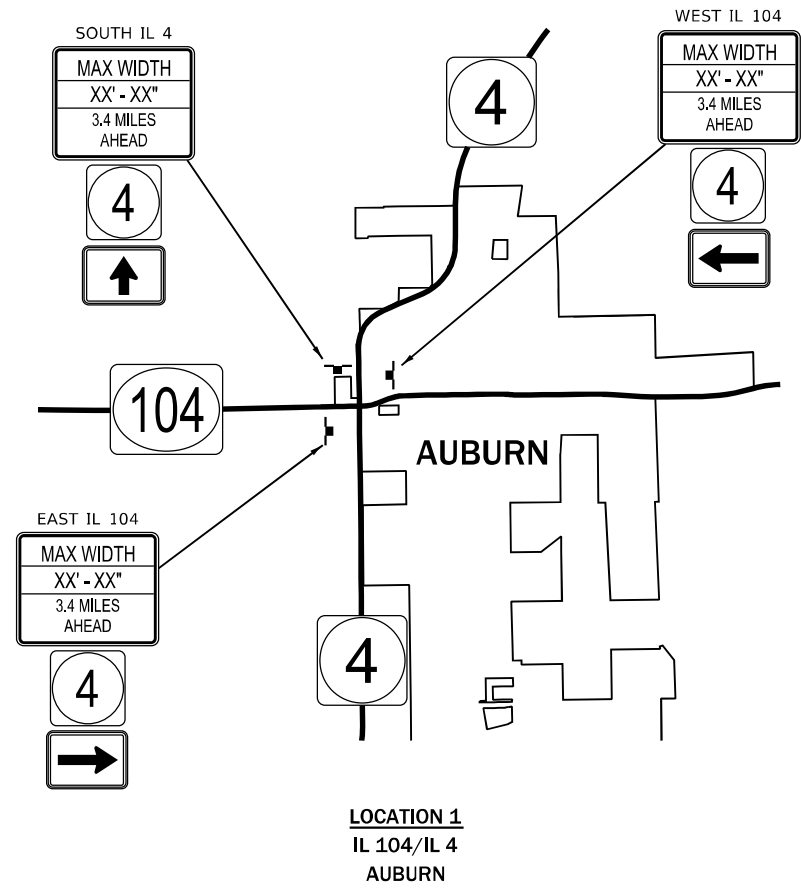
USER NAME = Frank.Caraballo	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/23/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	19
CONTRACT NO. 72N46				
ILLINOIS FED. AID PROJECT				



MODEL: Default  
 FILE: Mainfile.pxl  
 SUBJECT: new\_bendray.com:PIV:DOT:Documents:1:DOT:Office:Director: E:\Project:1067246:CAD:Data: SS1\DCAD:Sheet:067246:Sheet-sign.dgn

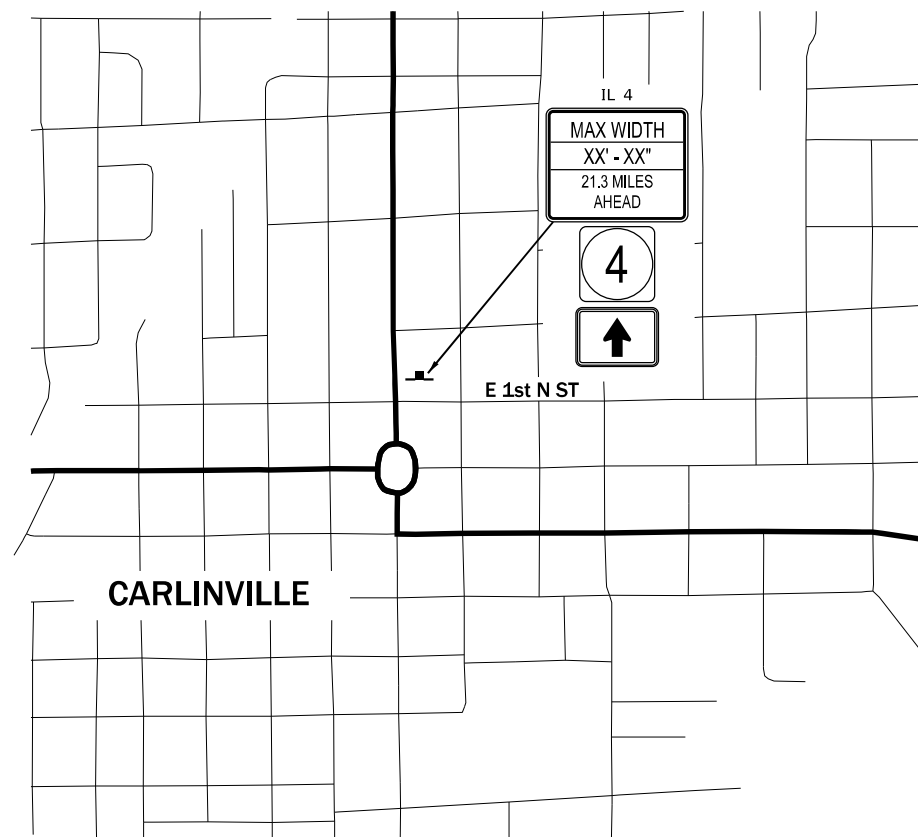
USER NAME = Frank,Caraballo	DESIGNED -	REVISED -
DRAWN -	REVISIONS -	
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/23/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

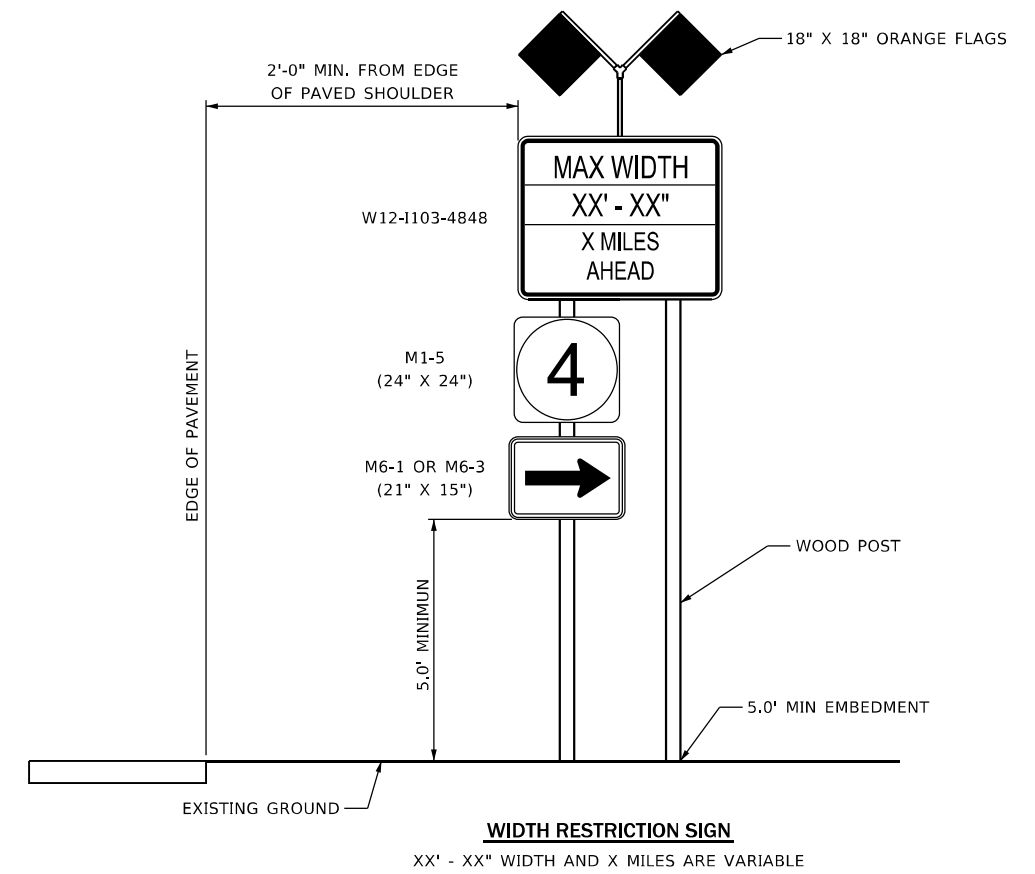
**WIDTH RESTRICTION SIGNING  
DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	P(B-2)-BDR	SANGAMON	21	20
CONTRACT NO. 72N46				
ILLINOIS FED. AID PROJECT				



**LOCATION 5**  
IL 4 / E 1ST N ST  
CARLINVILLE



MODEL: Default  
FILE: 144146.dwg  
PLOT DATE: 8/23/2022

USER NAME = Frank.Caraballo	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 8/23/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING  
DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 662	SECTION P(B-2)-BDR	COUNTY SANGAMON	TOTAL SHEETS 21	SHEET NO. 21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72N46	