

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	1
		ILLINOIS	CONTRACT NO. 70B05	

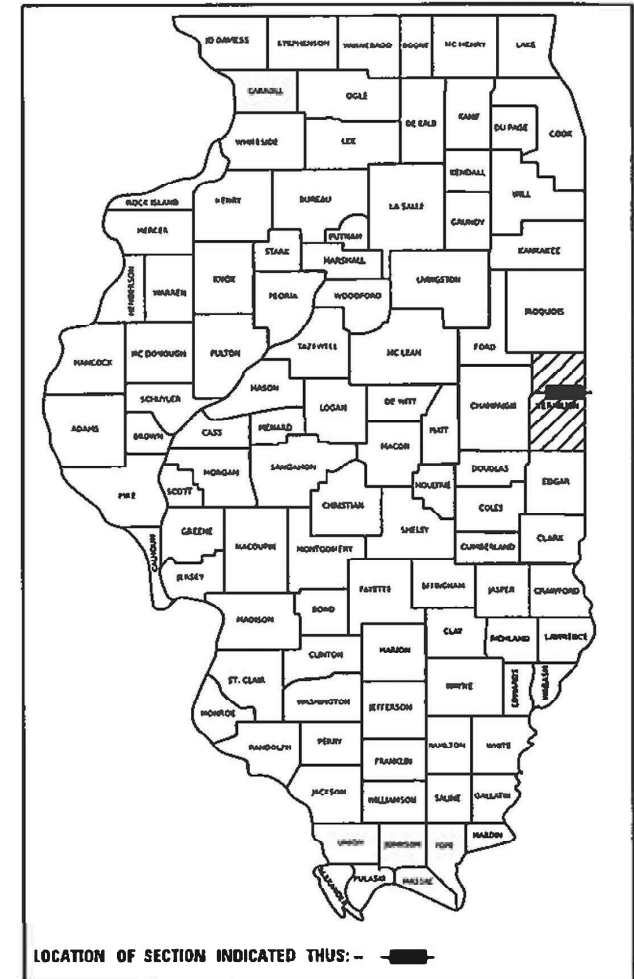
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PROPOSED  
HIGHWAY PLANS

FAS ROUTE 497A (BISMARCK ROAD)  
SECTION K(RS-2)  
PROJECT STP-IN38(517)  
3P RESURFACING - STANDARD OVERLAY  
VERMILION COUNTY

P-95-024-20



FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

C-95-040-20

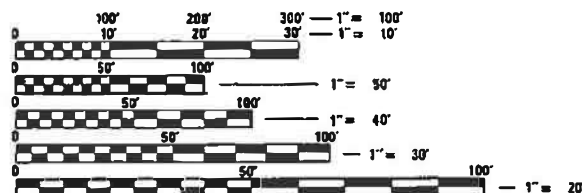
IL 1 TO BOWMAN AVENUE

TRAFFIC DATA

2021 ADT = 1500  
2041 ADT = 1650  
PV% = 92.0%  
SU% = 4.7%  
MU% = 3.3%

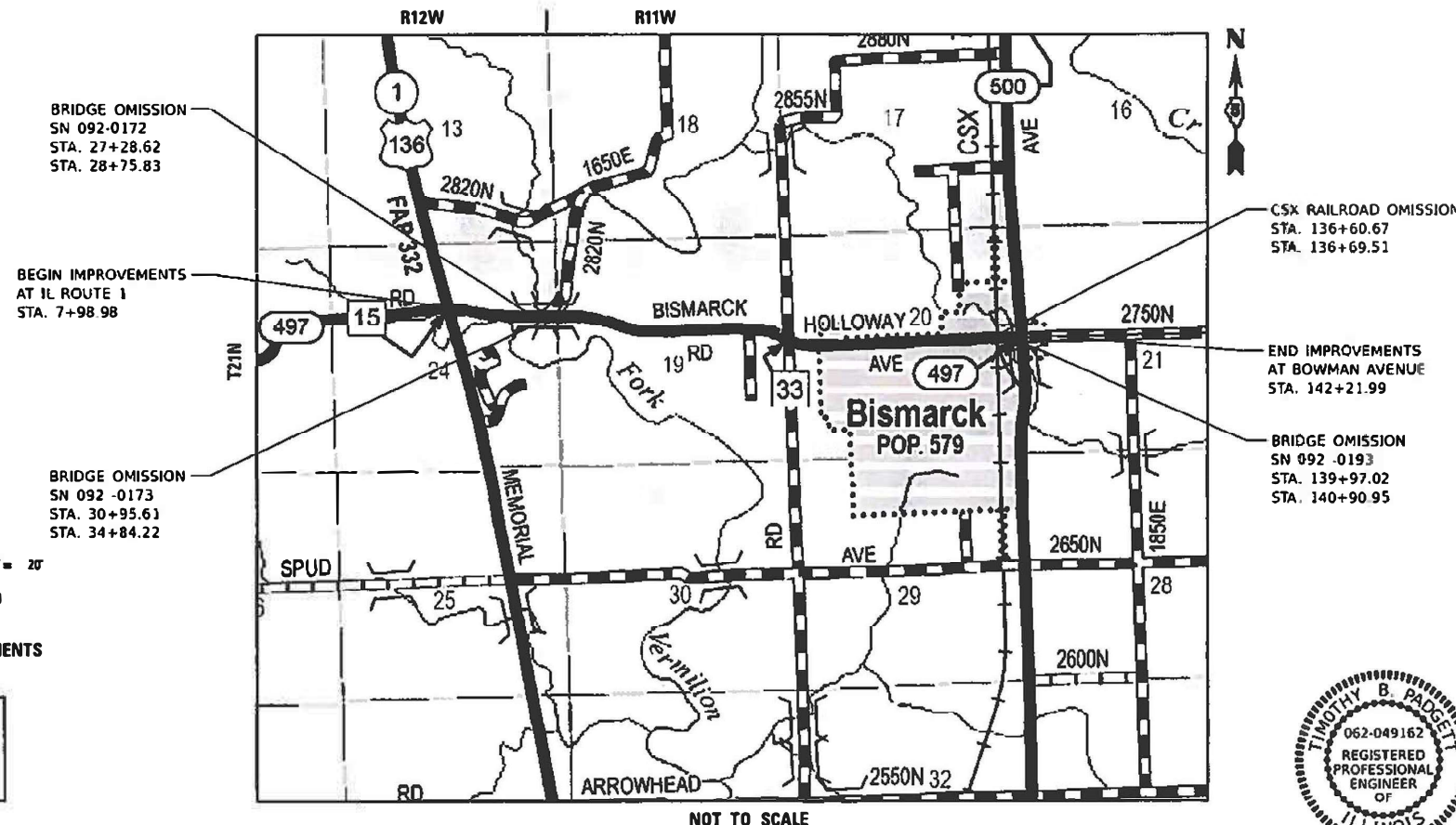
FUNCTIONAL CLASSIFICATION

MAJOR COLLECTOR



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 EXCAVATION  
1-800-892-0123  
OR 811 TOWNSHIPS: BLOUNT, NEWELL



NOT TO SCALE

GROSS LENGTH = 13,423.01 FT. = 2.542 MILE  
NET LENGTH = 12,784.42 FT. = 2.421 MILE

PHONE NUMBER: (217)465-4181  
PROJECT ENGINEER: JASON W. STULTS  
PROJECT MANAGER: JASON R. GOBLE  
CONTRACT NO. 70B05



TIMOTHY B. PADGETT, PE  
EXPIRATION DATE  
LICENSE NO. 062-049162 11-30-2023



PLANS PREPARED BY:

4940 Old Collinsville Road  
Swansea, Illinois 62226  
Tel: 618.624.4488  
www.twm-inc.com  
Illinois Professional Design Firm  
No. 184-001220  
License Expires: 04/30/2023  
ILLINOIS - MISSOURI - TENNESSEE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 12/15/2022  
*Kensil A. Barnett*  
Kensil A. Barnett  
REGIONAL ENGINEER

February 3, 2023  
*Steph M. Smith*  
Steph M. Smith  
ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 2023  
*Steph M. Smith*  
Steph M. Smith  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

## GENERAL NOTES

G.N. - 100B  
 MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER AWARD. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

G.N. - 105.09A  
 ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N. - 107.12  
 THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE LOCAL RAILROAD CONTACT IS:

MR. BRAD ARMSTRONG  
 CSX PROJECT MANAGER  
 CSX TRANSPORTATION  
 4802 DECOURSEY PIKE  
 TAYLOR MILL, KY 41015  
 (513) 853-1221

SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12 REGARDING RAILROAD FLAGGERS. THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE RAILROAD CONTACT PERSON FOR FLAGGERS IS:

MR. DARRYN BUCKLER  
 TRACK SUPERVISOR  
 CSX TRANSPORTATION  
 564 CSX LANE  
 DANVILLE, IL 61834  
 (217) 508-3418

G.N. - 403A  
 BITUMINOUS SURFACE TREATMENTS: GRADATION CA-14 (MID SPEC.) IS ASSUMED FOR COVERCOATS AND GRADATION CA-16 (MID SPEC.) IS ASSUMED FOR SEAL COATS. THE AGGREGATE SHALL BE EITHER CRUSHED GRAVEL OR CARBONATE CRUSHED STONE AND SHAL BE CLASS C QUALITY OR BETTER. THE RESULTING TARGET APPLICATION RATES AREA AS FOLLOWS:

TYPE OF CONSTRUCTION	BITUMINOUS MATERIAL	APPLICATION RATE	AGGREGATE	APPLICATION RATE
TACK COAT (HARD SURFACE) *	ART. 406.02	0.1 GAL/SQ YD	FA-1 OR FA-2	3 LB/SQ YD
PRIME COAT (AGGREGATE SURFACE) *	MC-30 OR PEP	0.25 GAL/SQ YD	FA-1 OR FA-2	4 LB/SQ YD
A-1	HFP/CRSP	0.35 GAL/SQ YD	CA-16	19 LB/SQ YD
A-2 (COVER COAT)	HFP/CRSP	0.32 GAL/SQ YD	CA-14	25 LB/SQ YD
A-2 (SEAL COAT)	HFP/CRSP	0.4 GAL/SQ YD	CA-16	19 LB/SQ YD
A-3 (1ST COVER COAT)	HFP/CRSP	0.32 GAL/SQ YD	CA-14	25 LB/SQ YD
A-3 (2ND COVER COAT)	HFP/CRSP	0.45 GAL/SQ YD	CA-14	25 LB/SQ YD
A-3 (SEAL COAT)	HFP/CRSP	0.35 GAL/SQ YD	CA-16	19 LB/SQ YD

\* TO BE USED WITH A1, A2, AND A3 SEAL COATS

NOTE: THE ENGINEER RESERVES THE RIGHT TO ADJUST THE TARGET APPLICATION RATES AND THE QUANTITIES.

## GENERAL NOTES (CONTINUED)

G.N. - 406H  
 MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THE PROJECT:

LOCATION	MIXTURE USE	POLYMER SURFACE (MAINLINE & PARKING)	POLYMER BINDER	SURFACE (TOP 1 1/2" ON ALL SHLD AND 2 3/4" ON TYPE "E" SHLD & INCIDENTAL)	BINDER (PATCHES & BOTTOM OF SHLD BELOW 1 1/2" SURFACE)
AC/PG		SBS PG 70-22	SBS PG 70-22	PG 64-22	PG-64-22
DESIGN AIR VOIDS		4.0% @ NDES=50	4.0% @ NDES=50	4.0% @ NDES=50	4.0% @ NDES=50
MIX COMP (GRADATION)		IL 9.5	IL 9.5 FG	IL 9.5	IL 19.0
FRICTION AGGREGATE		MIX C	N.A.	MIX C	MIX C
MIXTURE WEIGHT		112	112	112	112
QUALITY MANAGEMENT PROGRAM		QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE		3000	3000	3000	3000
MATERIAL TRANSFER DEVICE (REQUIRED?)		NO	NO	NO	NO

OPEN GRADED COLD MIXTURE SHALL BE PRODUCED ACCORDING TO SPECIAL PROVISION REQUIREMENTS.

G.N. - 406S  
 THE FOLLOWING TABLE IS A LISTING OF POSTED SPEED LIMITS WITHIN THE PROJECT LIMITS. THE ENGINEER SHALL FIELD VERIFY THESE LIMITS:

STATION	TO	STATION	POSTED SPEED LIMIT (MPH)
7+98.98	TO	86+70.00	55 MPH
86+70.00	TO	116+00.00	40 MPH
116+40.00	TO	142+21.99	30 MPH

G.N. - 408B  
 THE INCIDENTAL HOT-MIX ASPHALT SURFACING SHALL BE COMPACTED AS REQUIRED BY THE SPECIFICATIONS FOR DESIGN NUMBER OF GYRATIONS BEING USED.

AT THE FOLLOWING LOCATIONS:  
 1700 RD E (SHAKE RAG ROAD)

G.N. - 440B  
 THE EXISTING TIE BARS BETWEEN THE EXISTING PAVEMENT AND EXISTING MEDIANS, GUTTERS AND/OR COMBINATION CURB AND GUTTERS THAT ARE FOUND SUITABLE FOR REUSE SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY EXISTING TIE BARS THAT ARE FOUND UNSUITABLE TO BE INCORPORATED INTO THE PROPOSED CONSTRUCTION DUE TO EXCESSIVE RUSTING OR DISTRESS SHALL BE REMOVED FLUSH WITH THE FACE OF THE EXISTING CONCRETE AND DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS REMOVAL PAY ITMES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N. - 542B  
 ALL ENTRANCE CULVERT LENGTHS SHOWN IN THE PLANS WERE CALCULATED WITH THE ASSUMPTION THAT METAL PIPES AND METAL END SECTIONS WOULD BE USED.

G.N. - 703A  
 SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING:  
 COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (TACK COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES.

SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING.

SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS.

USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N. - 781  
 THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS.

## LIST OF HIGHWAY STANDARDS

000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS  
 001001-02 AREAS OF REINFORCEMENT BARS  
 001006 DECIMAL OF AN INCH AND OF A FOOT  
 280001-07 TEMPORARY EROSION CONTROL SYSTEMS  
 420701-03 PAVEMENT WELDED WIRE REINFORCEMENT  
 424001-11 PERPENDICULAR CURB RAMPS FOR SIDEWALKS  
 424016-05 MID-BLOCK CURB RAMPS FOR SIDEWALKS  
 442201-03 CLASS C AND D PATCHES  
 482006-03 HMA SHOULDER ADJACENT TO RIGID PAVEMENT  
 542401-04 METAL FLARED END SECTION FOR PIPE CULVERTS  
 602301-04 INLET - TYPE A  
 602306-03 INLET - TYPE B  
 602406-11 PRECAST MANHOLE TYPE A 6' (1.83 M) DIAMETER  
 604001-05 FRAME AND LIDS TYPE 1  
 604006-05 FRAME AND GRATE TYPE 3  
 604106-01 MEDIAN INLET FOR 36" (900 MM) REINFORCED CONCRETE PIPE  
 606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER  
 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY  
 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600mm) FROM PAVEMENT EDGE  
 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY  
 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH  
 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS  
 701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH  
 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS DAY ONLY  
 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING,, FOR SPEEDS ≥ 45 MPH  
 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED  
 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION  
 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE  
 701901-08 TRAFFIC CONTROL DEVICES  
 728001-01 TELESOPING STEEL SIGN SUPPORT  
 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)  
 780001-05 TYPICAL PAVEMENT MARKINGS  
 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

## STRUCTURE INFORMATION

BASED ON STRUCTURAL ANALYSIS, THE FOLLOWING STRUCTURES CAN BE CROSSED WITH AN EMPTY MATERIAL TRANSFER DEVICE WITH THE FOLLOWING MAXIMUM GROSS WEIGHT RESTRICTIONS:

SN 092-0172 (40 TONS)  
 SN 092-0173 (40 TONS)  
 SN 092-0193 (40 TONS)  
 SN 092-8048 (40 TONS)

## COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS CONTRACT.

MODEL: D:\p\11\110577E-Benchmark\_Road (P56E)X.CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rlc-gennotes.dgn  
 FILE NAME: P:\2010\110577E-Benchmark\_Road (P56E)X.CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rlc-gennotes.dgn



**TWM, INC.**  
 www.twm-inc.com  
 IL DESIGN FIRM  
 LICENSE NO:  
 184-001220

USER NAME = bbillhartz  
 DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LIST OF HIGHWAY STANDARDS & COMMITMENTS & GENERAL NOTES

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	2
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	

FAS 497A (BISMARCK ROAD)  
 MAJOR COLLECTOR  
 STA. 7+98.98 TO STA.142+21.99  
 VERMILION COUNTY  
 80% FEDERAL / 20% STATE  
 0005  
 RURAL

	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	
	20200100	EARTH EXCAVATION	CU YD	690	690
	25000210	SEEDING, CLASS 2A	ACRE	1.5	1.5
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	130	130
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	130	130
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	130	130
	25100115	MULCH, METHOD 2	ACRE	0.5	0.5
	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	4173	4173
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300	300
	28000305	TEMPORARY DITCH CHECKS	FOOT	284	284
	28000500	INLET AND PIPE PROTECTION	EACH	18	18
	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	1529	1529
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	11	11
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	12774	12774

\* DENOTES SPECIALTY ITEM

MODEL: D:\p\h\l...  
 FILE NAME: P:\2018\180577E-Bismarck\_Road (P556)\V\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rhs-500.dgn



USER NAME =	bbillhartz
PLOT SCALE =	2,000 */ in.
PLOT DATE =	12/12/2022

DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	REVISED -	
CHECKED -	TBP	REVISED -	
DATE -	12/2022	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 1 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	3
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	

FAS 497A (BISMARCK ROAD)  
 MAJOR COLLECTOR  
 STA. 7+98.98 TO STA.142+21.99  
 VERMILION COUNTY  
 80% FEDERAL / 20% STATE  
 0005  
 RURAL

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	4487	4487
40600370	LONGITUDINAL JOINT SEALANT	FOOT	1544	1544
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	12	12
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	802	802
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	1072	1072
40600990	TEMPORARY RAMP	SQ YD	588	588
40603215	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, 1L-9.5FG, N50	TON	335	335
40604150	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "C", N50	TON	695	695
40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	9913	9913
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	585	585
42000060	WELDED WIRE REINFORCEMENT	SQ YD	38	38
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1635	1635
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	114	114

\* DENOTES SPECIALTY ITEM

MODEL: D:\p\h\...  
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**TWM, INC.**  
 WWW.TWM-INC.COM  
 IL DESIGN FIRM  
 LICENSE NO: 184-001220  
 USER NAME = bbillhartz  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 2 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	4
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	

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	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	
*	42400800	DETECTABLE WARNINGS	SQ FT	104	104
	44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	344	344
	44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	489	489
	44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	2011	2011
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	243	243
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	203	203
	44000600	SIDEWALK REMOVAL	SQ FT	849	849
	44201298	DOWEL BARS 1 1/4"	EACH	24	24
	44201329	CLASS C PATCHES, TYPE II, 8 INCH	SQ YD	21	21
	44201333	CLASS C PATCHES, TYPE III, 8 INCH	SQ YD	45	45
	44201335	CLASS C PATCHES, TYPE IV, 8 INCH	SQ YD	41	41
	44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	24	24
	44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	92	92

\* DENOTES SPECIALTY ITEM

MODEL: D:\p\h\l  
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STATE OF ILLINOIS  
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SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 3 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	43	43
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	159	159
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SQ YD	12	12
44213200	SAW CUTS	FOOT	90	90
45200100	JOINT OR CRACK ROUTING (PC CONCRETE PAVEMENT AND SHOULDER)	FOOT	6000	6000
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	777	777
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	685	685
48203003	HOT-MIX ASPHALT SHOULDERS, 1 1/2"	SQ YD	365	365
48203008	HOT-MIX ASPHALT SHOULDERS, 2 3/4"	SQ YD	571	571
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	96	96
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1613	1613
50105220	PIPE CULVERT REMOVAL	FOOT	99	99
54248510	CONCRETE COLLAR	CU YD	3.4	3.4

\* DENOTES SPECIALTY ITEM

MODEL: D:\p\h\l...  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 4 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	6
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	

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 STA. 7+98.98 TO STA.142+21.99  
 VERMILION COUNTY  
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CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	
54261724	STEEL FLARED END SECTIONS 24"	EACH	4	4
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	100	100
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	99	99
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	26	26
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	14	14
55100300	STORM SEWER REMOVAL 8"	FOOT	8	8
55100500	STORM SEWER REMOVAL 12"	FOOT	138	138
55101200	STORM SEWER REMOVAL 24"	FOOT	8	8
55101400	STORM SEWER REMOVAL 30"	FOOT	16	16
55101600	STORM SEWER REMOVAL 36"	FOOT	18	18
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
60223810	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1
60224005	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE	EACH	1	1

\* DENOTES SPECIALTY ITEM

MODEL: D:\p\h\...  
 FILE NAME: P:\2018\180577E-Bismarck\_Road (P55E)\V\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rhs-500.dgn



**TWM, INC.**  
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 IL DESIGN FIRM  
 LICENSE NO: 184-001220  
 USER NAME = bbillhartz  
 PLOT SCALE = 2,000' / in.  
 PLOT DATE = 12/12/2022

DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

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

**SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 5 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	7
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	

FAS 497A (BISMARCK ROAD)  
 MAJOR COLLECTOR  
 STA. 7+98.98 TO STA.142+21.99  
 VERMILION COUNTY  
 80% FEDERAL / 20% STATE  
 0005  
 RURAL

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	
60235300	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	EACH	1	1
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	4	4
60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	2	2
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	2	2
60255500	MANHOLES TO BE ADJUSTED	EACH	7	7
60260500	INLETS TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE	EACH	1	1
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	3	3
60500040	REMOVING MANHOLES	EACH	2	2
60500060	REMOVING INLETS	EACH	8	8
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	203	203
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	85	85
61100605	MISCELLANEOUS CONCRETE	CU YD	3.1	3.1
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	5	5

\* DENOTES SPECIALTY ITEM

MODEL: D:\p\h\...  
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USER NAME = bbillhartz  
 PLOT SCALE = 2,000' = 1" in.  
 PLOT DATE = 12/12/2022

DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 6 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	8
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	



FAS 497A (BISMARCK ROAD)  
 MAJOR COLLECTOR  
 STA. 7+98.98 TO STA.142+21.99  
 VERMILION COUNTY  
 80% FEDERAL / 20% STATE  
 0005  
 RURAL

	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	
	61140000	STORM SEWERS (SPECIAL), 8"	FOOT	127	127
	61141100	STORM SEWERS (SPECIAL), 30"	FOOT	9	9
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	70	70
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	15	15
	67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6	6
	67100100	MOBILIZATION	L SUM	1	1
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1

\* DENOTES SPECIALTY ITEM

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 LICENSE NO: 184-001220  
 USER NAME = bbillhartz  
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 PLOT DATE = 12/12/2022

DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 7 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	9
			CONTRACT NO. 70B05	
		ILLINOIS	FED. AID PROJECT	

FAS 497A (BISMARCK ROAD)  
 MAJOR COLLECTOR  
 STA. 7+98.98 TO STA.142+21.99  
 VERMILION COUNTY  
 80% FEDERAL / 20% STATE  
 0005  
 RURAL

	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	524	524
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	61	61
	70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	122	122
	70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	33726	33726
	70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	209	209
	70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	160	160
	70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	126	126
*	72000100	SIGN PANEL - TYPE 1	SQ FT	54	54
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	106	106
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	76	76
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	72	72

\* DENOTES SPECIALTY ITEM

MODEL: D:\p\h\l...  
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 IL DESIGN FIRM  
 LICENSE NO: 184-001220

USER NAME = bbillhartz  
 DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

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 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
 SCALE: N.T.S. SHEET 8 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	10
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	

FAS 497A (BISMARCK ROAD)  
 MAJOR COLLECTOR  
 STA. 7+98.98 TO STA.142+21.99  
 VERMILION COUNTY  
 80% FEDERAL / 20% STATE  
 0005  
 RURAL

	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	
*	78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	122	122
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	33726	33726
*	78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	133	133
*	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	306	306
*	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	126	126
*	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	76	76
*	78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	72	72
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	16	16
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	18	18
	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	11881	11881
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	286	286
	X0300010	BITUMINOUS MATERIALS (FOG SEAL)	POUND	12358	12358
	X6110073	EXISTING FIELD TILE REMOVAL	FOOT	85	85

\* DENOTES SPECIALTY ITEM

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USER NAME = bbillhartz  
 TWM, INC.  
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 IL DESIGN FIRM  
 LICENSE NO:  
 184-001220  
 PLOT SCALE = 2.000' / in.  
 PLOT DATE = 12/12/2022

DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 9 OF 11 SHEETS STA. TO STA.

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 11
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	

FAS 497A (BISMARCK ROAD)  
 MAJOR COLLECTOR  
 STA. 7+98.98 TO STA.142+21.99  
 VERMILION COUNTY  
 80% FEDERAL / 20% STATE  
 0005  
 RURAL

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	
X0326440	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)	SQ YD	1936	1936
X1500002	BLOTTER AGGREGATE	TON	206	206
X1500005	BITUMINOUS SURFACE TREATMENT, A2	SQ YD	27462	27462
X4060205	COLD MIX ASPHALT MIXTURE	TON	2781	2781
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	66	66
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	134	134
X4404700	SIDEWALK REMOVAL (SPECIAL)	SQ FT	729	729
X4406030	PARTIAL DEPTH REMOVAL, TYPE I, 3"	SQ YD	100	100
X4406230	PARTIAL DEPTH REMOVAL, TYPE II, 3"	SQ YD	300	300
X4421000	PARTIAL DEPTH PATCHING	TON	67	67
X6024207	MEDIAN INLET (604106), SPECIAL	EACH	2	2
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	33	33
X6061460	PAVED DITCH (SPECIAL)	FOOT	33	33

\* DENOTES SPECIALTY ITEM

MODEL: D:\p\h\...  
 FILE NAME: P:\2018\180577E-Bismarck\_Road (P556)\X\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rhs-500.dgn



**TWM, INC.**  
 WWW.TWM-INC.COM  
 IL DESIGN FIRM  
 LICENSE NO: 184-001220  
 USER NAME = bbillhartz  
 PLOT SCALE = 2,000' = 1" in.  
 PLOT DATE = 12/12/2022

DESIGNED - EKF  
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 CHECKED - TBP  
 DATE - 12/2022  
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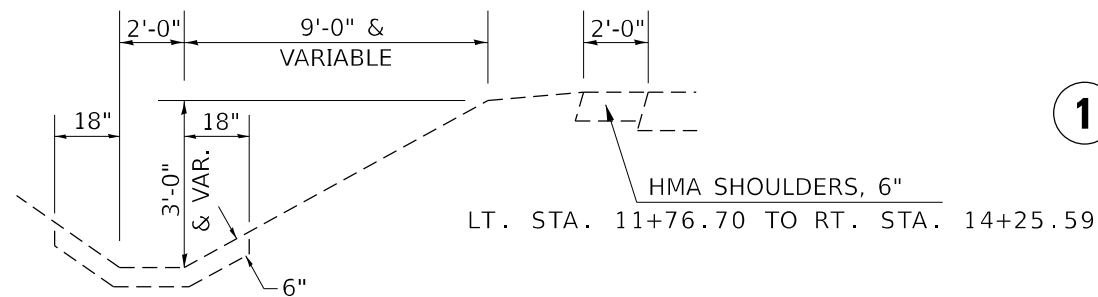
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 10 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	12
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	

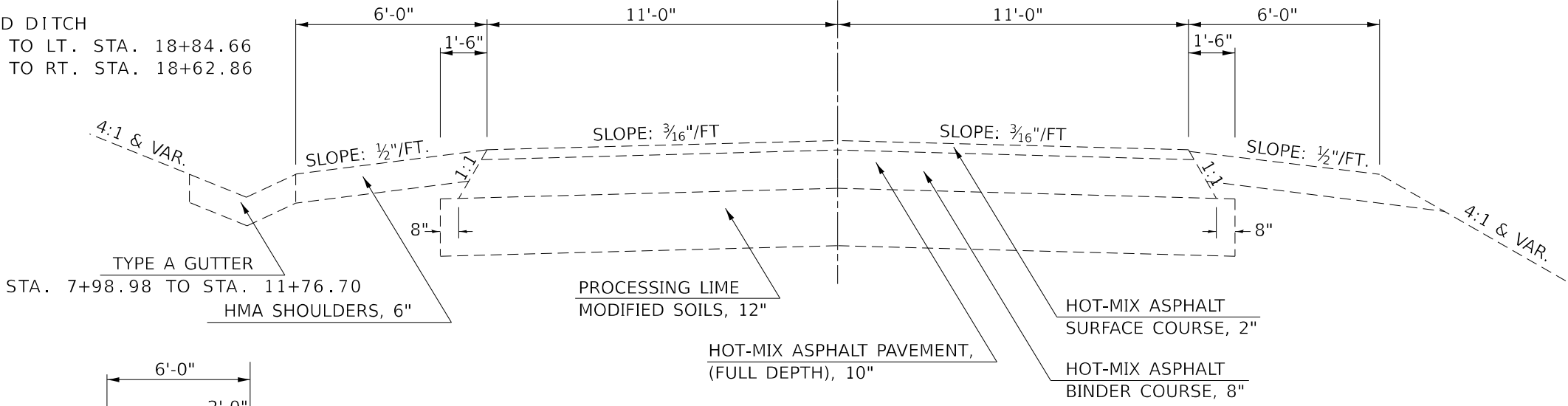




**1 EXISTING TYPICAL CROSS SECTION**

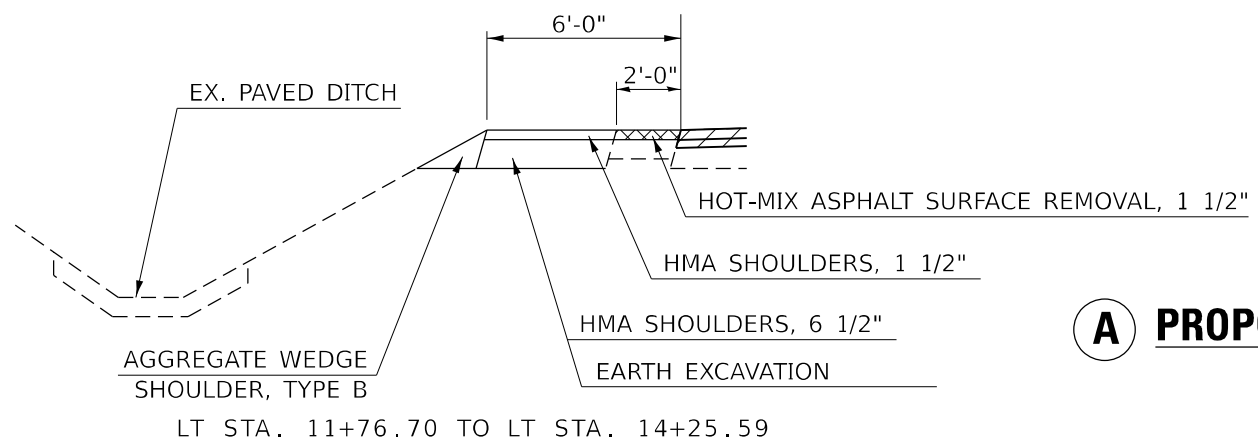
STATION TO STATION  
7+98.98 TO 14+25.59

PAVED DITCH  
LT. STA. 11+91.27 TO LT. STA. 18+84.66  
RT. STA. 10+12.70 TO RT. STA. 18+62.86



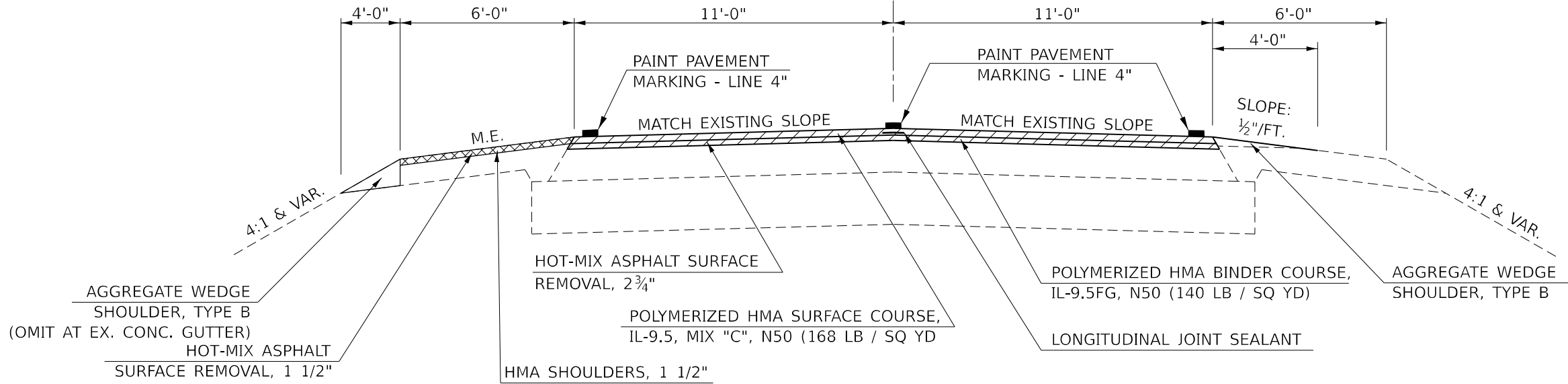
TYPE A GUTTER  
STA. 7+98.98 TO STA. 11+76.70  
HMA SHOULDERS, 6"

PROCESSING LIME MODIFIED SOILS, 12"  
HOT-MIX ASPHALT PAVEMENT, (FULL DEPTH), 10"  
HOT-MIX ASPHALT SURFACE COURSE, 2"  
HOT-MIX ASPHALT BINDER COURSE, 8"



**A PROPOSED TYPICAL CROSS SECTION**

STATION TO STATION  
7+98.98 TO 14+25.59



AGGREGATE WEDGE SHOULDER, TYPE B (OMIT AT EX. CONC. GUTTER)  
HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"

HMA SHOULDERS, 1 1/2"  
HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"  
POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "C", N50 (168 LB / SQ YD)  
LONGITUDINAL JOINT SEALANT  
POLYMERIZED HMA BINDER COURSE, IL-9.5FG, N50 (140 LB / SQ YD)  
AGGREGATE WEDGE SHOULDER, TYPE B

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 PLOT SCALE = 40,000' / in.  
 PLOT DATE = 12/12/2022

DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

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 REVISED -

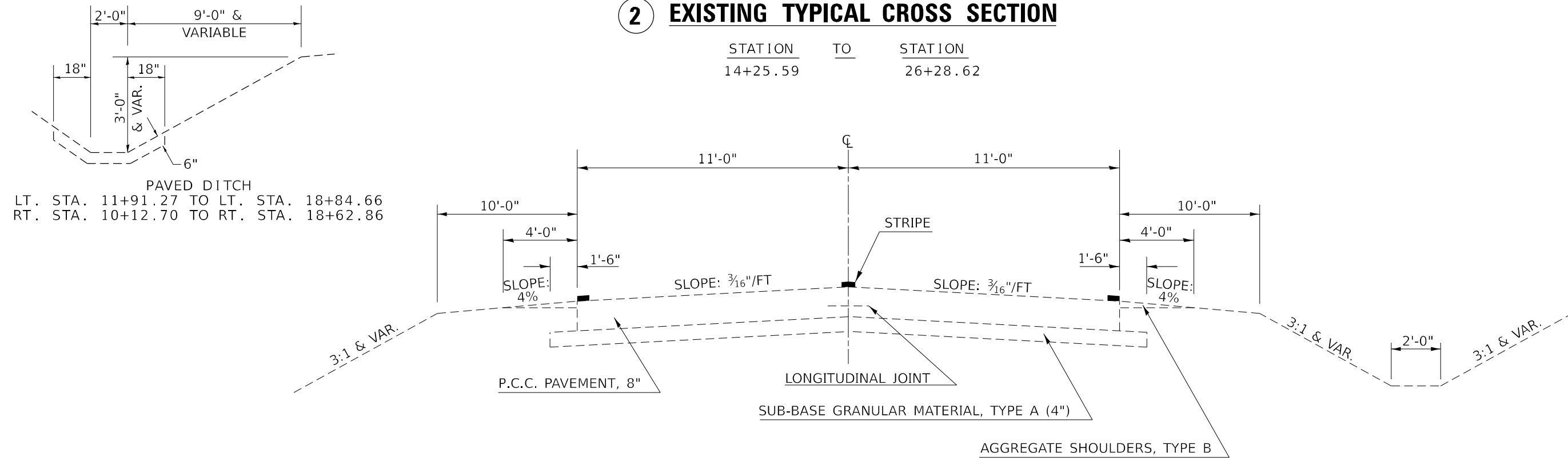
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
 SCALE: N.T.S. SHEET 1 OF 13 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	14
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

## 2 EXISTING TYPICAL CROSS SECTION

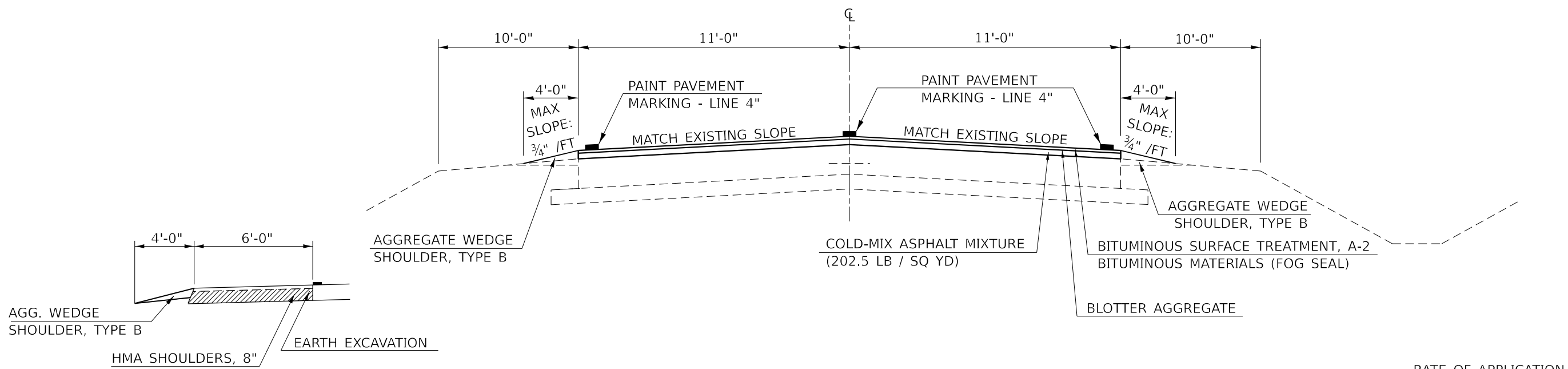
STATION TO STATION  
14+25.59 26+28.62



PAVED DITCH  
LT. STA. 11+91.27 TO LT. STA. 18+84.66  
RT. STA. 10+12.70 TO RT. STA. 18+62.86

## B PROPOSED TYPICAL CROSS SECTION

STATION TO STATION  
14+25.59 26+28.62



LT. STA. 14+25.59 TO LT. STA. 21+62.64

RATE OF APPLICATION FOR CMA MIXTURE:  
90 LBS / SQ YD PER INCH

MODEL: D:\p\11\110577E-Benchmark\_Road (P556)X.CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-shc-Typical.dgn



**TWM, INC.**  
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IL DESIGN FIRM  
LICENSE NO: 184-001220

USER NAME = bbillhartz  
DESIGNED - EKF  
DRAWN - BAB  
CHECKED - TBP  
DATE - 12/2022  
PLOT SCALE = 40,000' / in.  
PLOT DATE = 12/12/2022

REVISOR  
REVISION  
REVISION  
REVISION  
REVISION

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

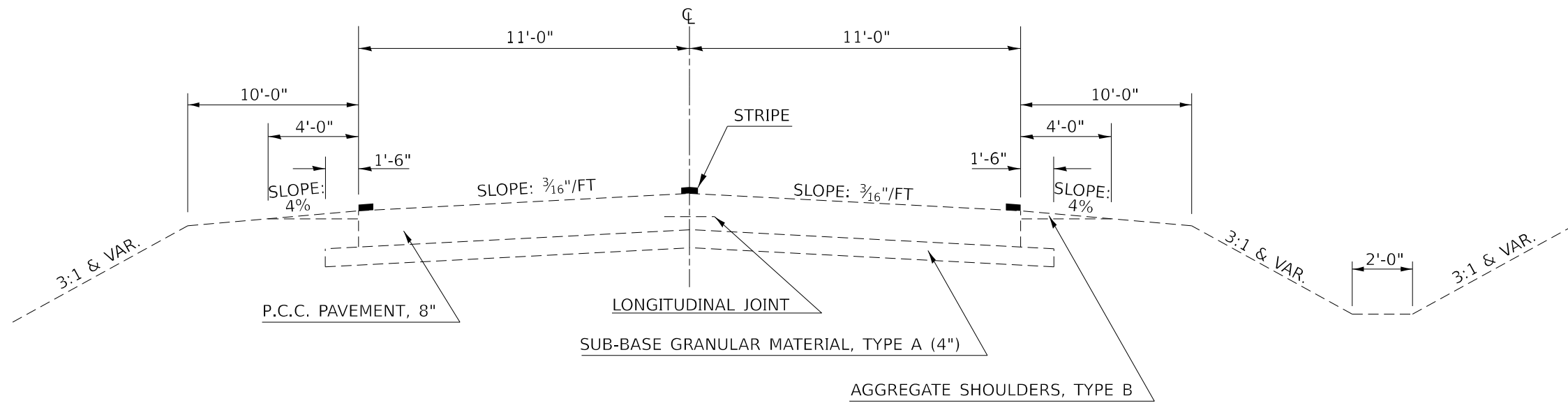
**TYPICAL SECTIONS**

SCALE: N.T.S. SHEET 2 OF 13 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	15
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

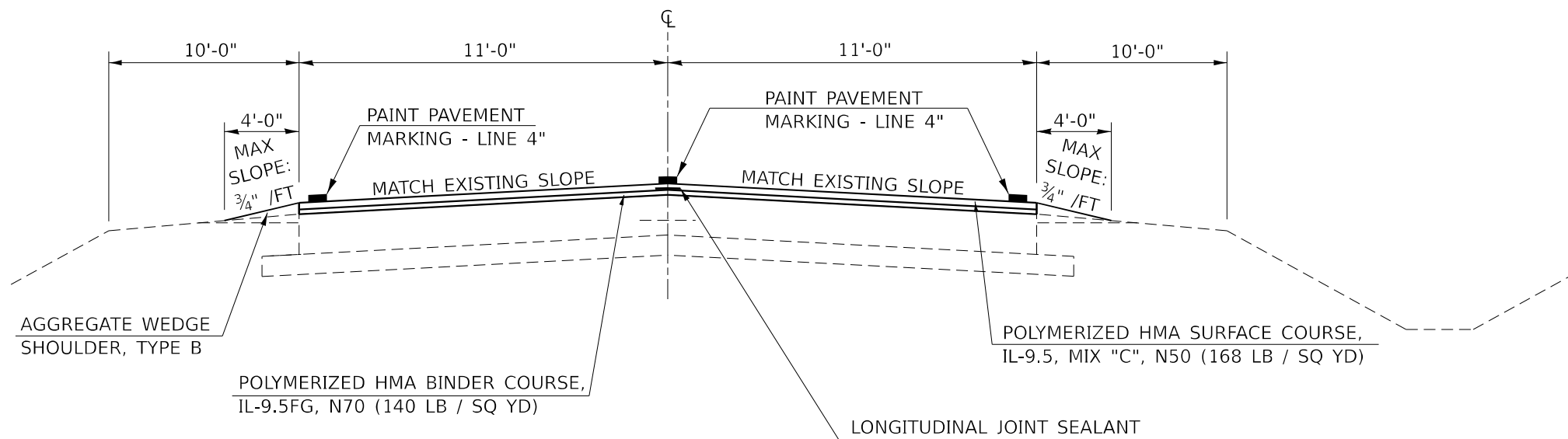
### 3 EXISTING TYPICAL CROSS SECTION

STATION	TO	STATION	
26+28.62		27+28.62	OMISSION: STA. 27+28.62 TO STA. 28+75.83
28+75.83		30+95.61	OMISSION: STA. 30+95.61 TO STA. 34+84.22
34+84.22		35+84.22	



### C PROPOSED TYPICAL CROSS SECTION

STATION	TO	STATION	
26+28.62		27+28.62	OMISSION: STA. 27+28.62 TO STA. 28+75.83
28+75.83		30+95.61	OMISSION: STA. 30+95.61 TO STA. 34+84.22
34+84.22		35+84.22	



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USER NAME =	bbillhartz	DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	CHECKED -	TBP	REVISED -	
DATE -	12/2022	REVISIONS -			

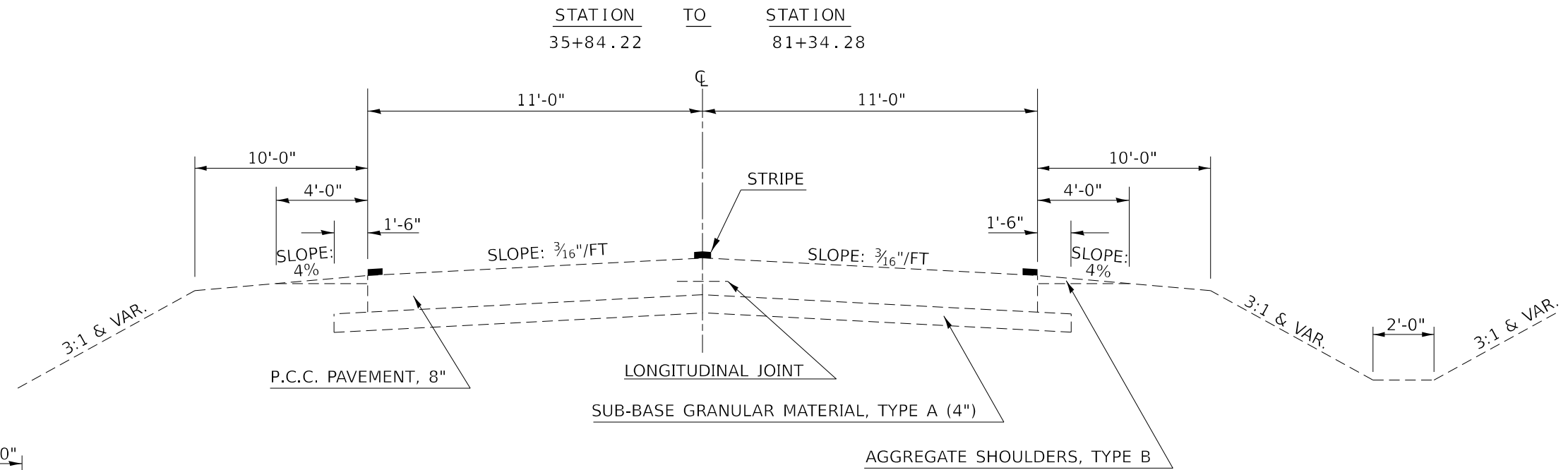
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE: N.T.S.	SHEET 3	OF 13 SHEETS	STA.	TO STA.
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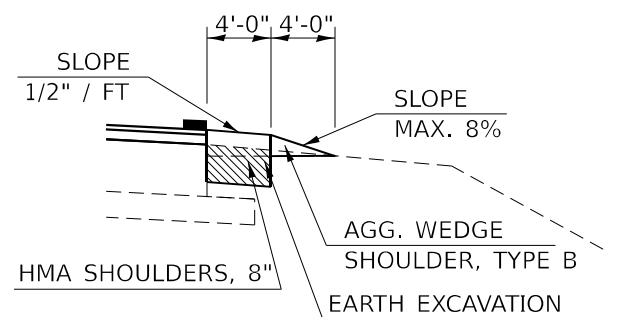
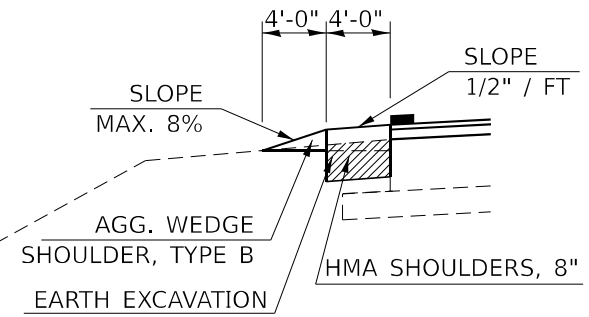
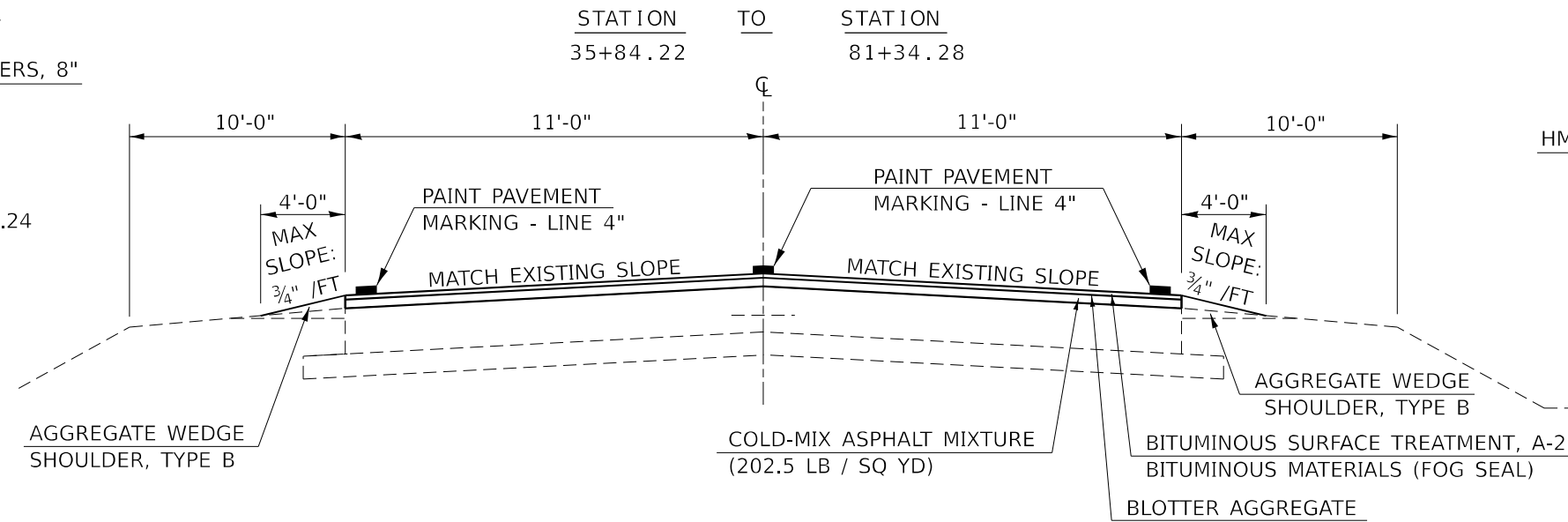
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	16
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



### 4 EXISTING TYPICAL CROSS SECTION

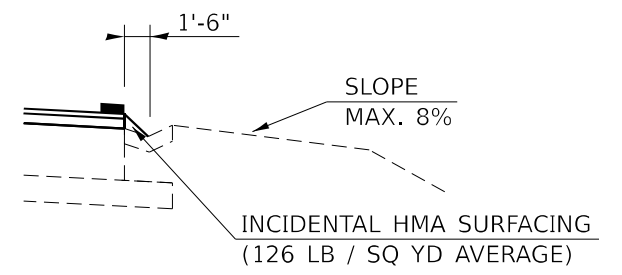
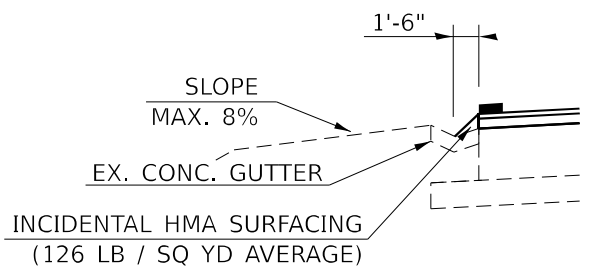


### D PROPOSED TYPICAL CROSS SECTION



**PROPOSED SHOULDER**  
LT. STA. 49+00.00 TO LT. STA. 57+06.24

**PROPOSED SHOULDER**  
RT. STA. 37+00.00 TO RT. STA. 41+25.45  
RT. STA. 73+00.00 TO RT. STA. 74+28.20



**PROPOSED SHOULDER**  
LT. STA. 44+64.17 TO LT. STA. 46+23.85  
LT. STA. 69+14.24 TO LT. STA. 70+50.57

**PROPOSED SHOULDER**  
RT. STA. 70+22.42 TO RT. STA. 72+37.82

RATE OF APPLICATION FOR CMA MIXTURE:  
90 LBS / SQ YD PER INCH

MODEL: D:\p\11\110577E-Benchmark\_Road (P55E)\X\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-shc-Typical.dgn



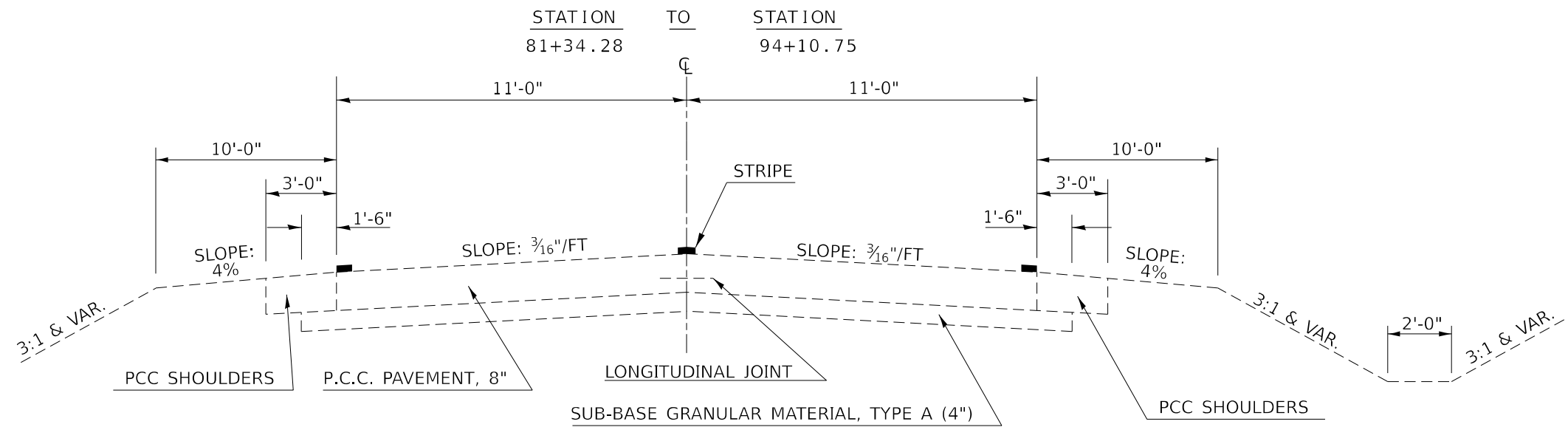
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

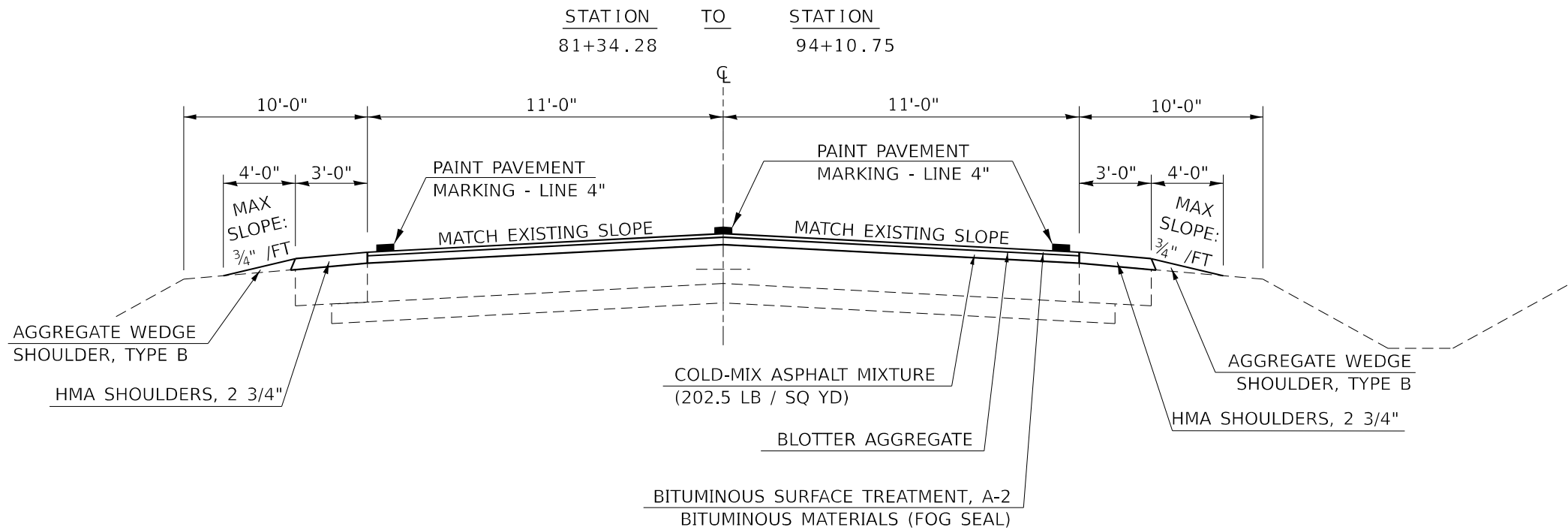
SCALE: N.T.S.		SHEET 4 OF 13 SHEETS		STA.	TO STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	17
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

### 5 EXISTING TYPICAL CROSS SECTION



### E PROPOSED TYPICAL CROSS SECTION



RATE OF APPLICATION FOR CMA MIXTURE:  
90 LBS / SQ YD PER INCH

MODEL: D:\p\11\110577E-Benchmark\_Road (P556)X.CADD - DWG\4.7\_Tran\CAD\_Sheets\0570B05-shc-Typical.dgn  
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USER NAME =	bbillhartz	DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	CHECKED -	TBP	REVISED -	
DATE -	12/2022				

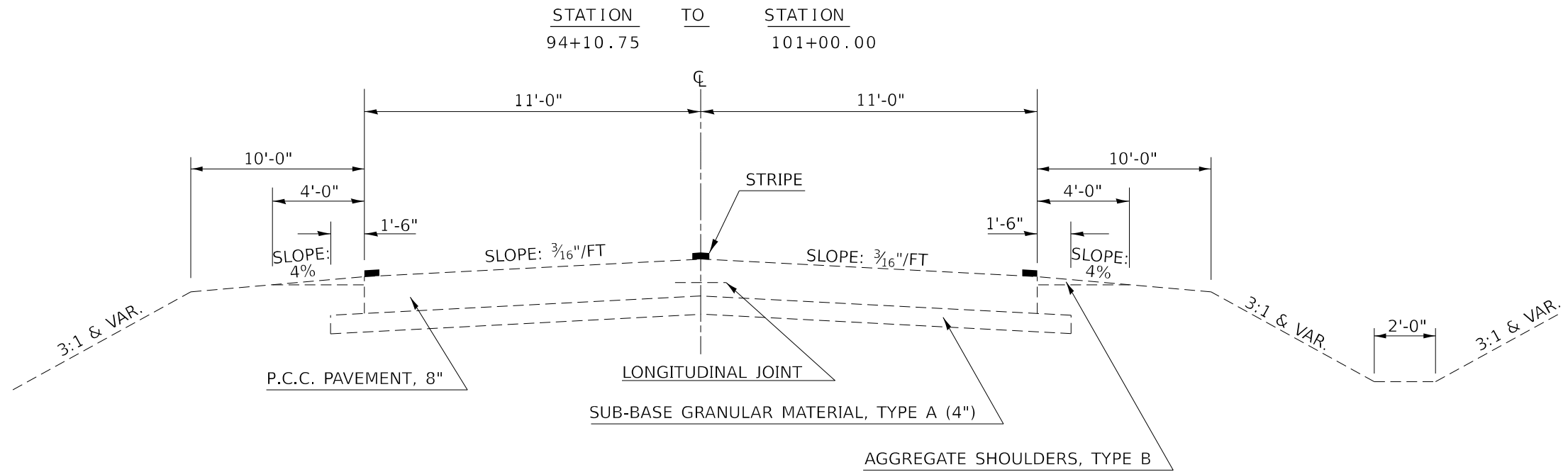
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DATE -	12/2022	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

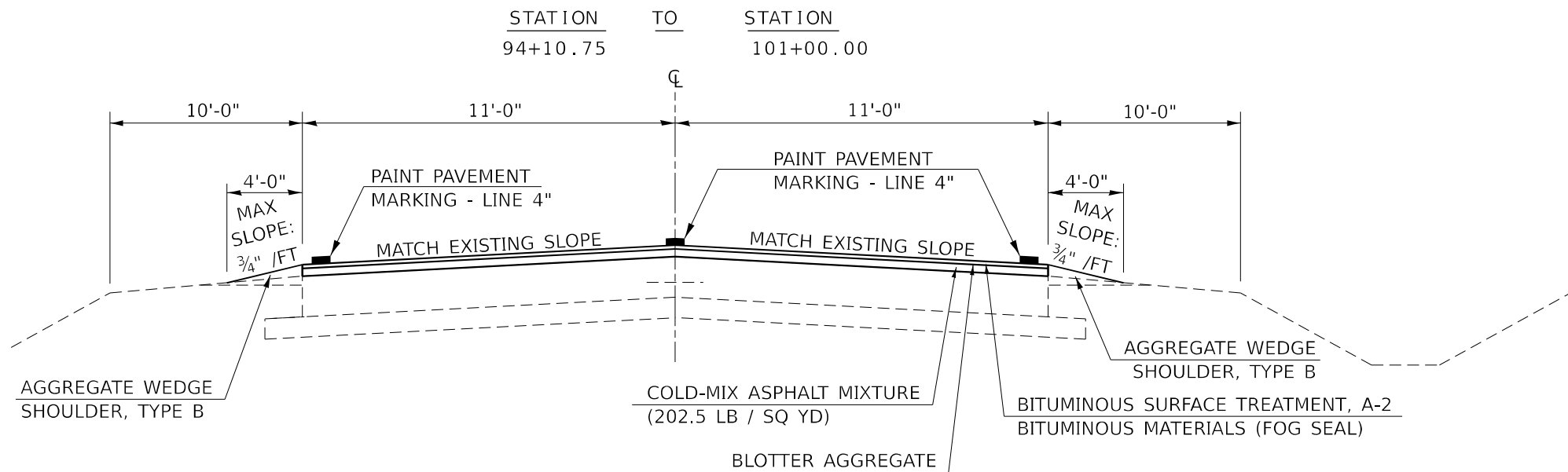
<b>TYPICAL SECTIONS</b>			
SCALE: N.T.S.	SHEET 5	OF 13 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	18
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

### 6 EXISTING TYPICAL CROSS SECTION



### F PROPOSED TYPICAL CROSS SECTION



RATE OF APPLICATION FOR CMA MIXTURE:  
90 LBS / SQ YD PER INCH

MODEL: D:\p\11\110577E-Benchmark\_Road (P55E)\V\_CADD - DWG\4.7\_Tran\CAD\_Sheets\0570B05-shc-Typical-f.dgn



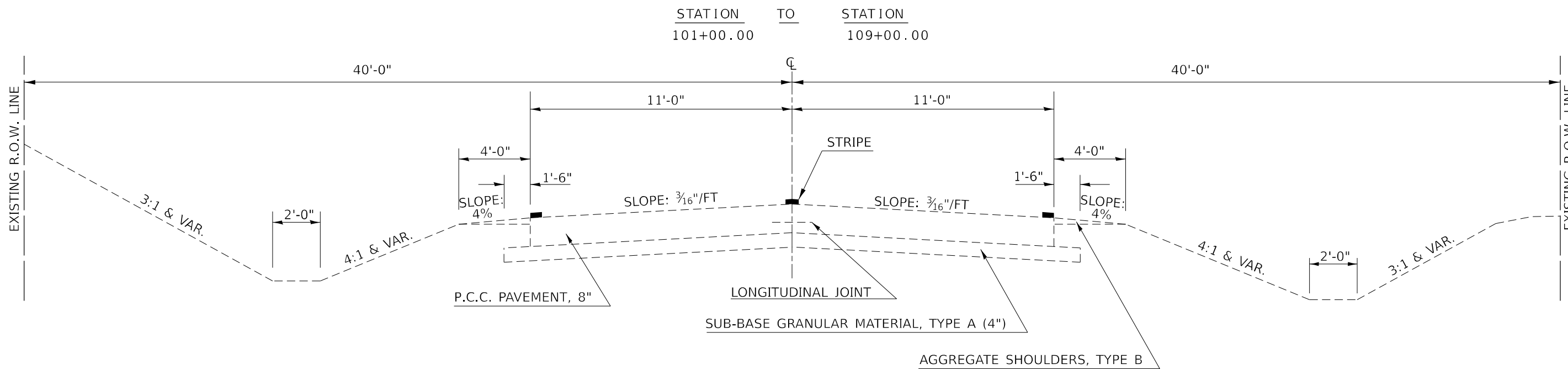
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PLOT DATE = 12/12/2022	CHECKED - TBP	REVISED -
	DATE - 12/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

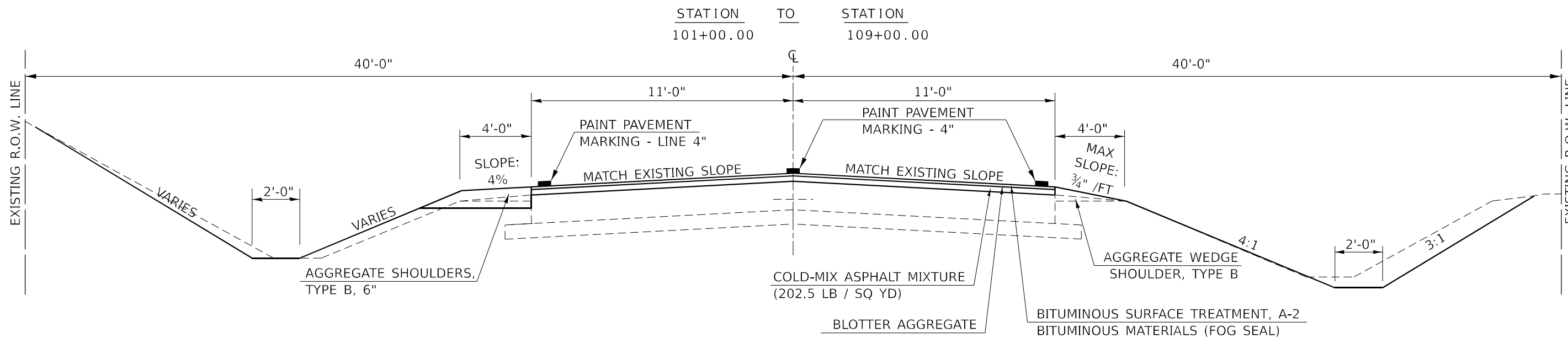
TYPICAL SECTIONS			
SCALE: N.T.S.	SHEET 6	OF 13 SHEETS	STA. TO STA.

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 19
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

### 7 EXISTING TYPICAL CROSS SECTION



### G PROPOSED TYPICAL CROSS SECTION



RATE OF APPLICATION FOR CMA MIXTURE:  
90 LBS / SQ YD PER INCH

MODEL: D:\p\11\110577E\Bentley\Road (P556)1\110577E\Typical.dgn  
 FILE NAME: P:\2011\110577E\Bentley\Road (P556)1\110577E\Typical.dgn



USER NAME = bbillhartz	DESIGNED - EKF	REVISED -
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PLOT DATE = 12/12/2022	CHECKED - TBP	REVISED -
	DATE - 12/2022	REVISED -

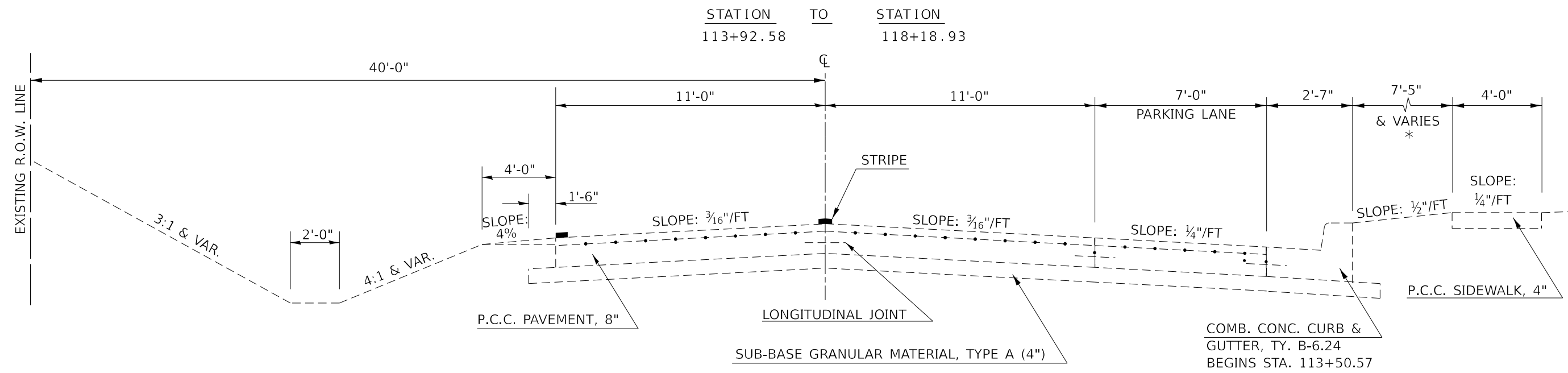
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>			
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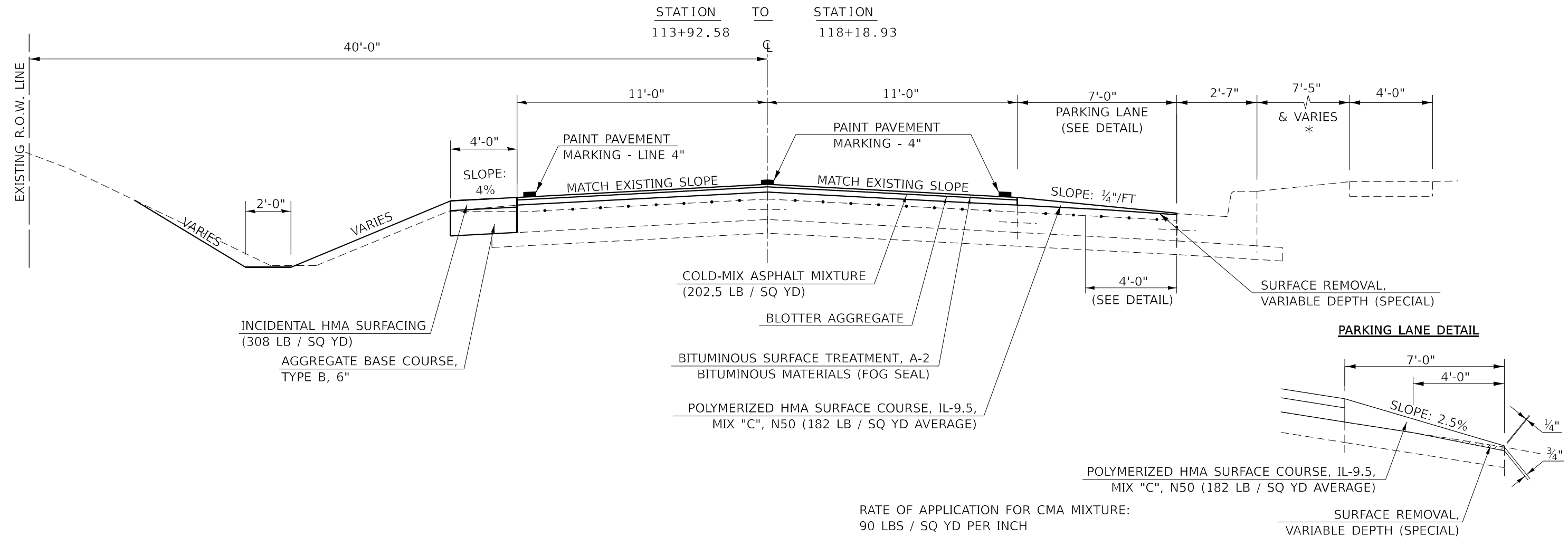
F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 20
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



### 9 EXISTING TYPICAL CROSS SECTION



### 1 PROPOSED TYPICAL CROSS SECTION



RATE OF APPLICATION FOR CMA MIXTURE:  
90 LBS / SQ YD PER INCH

MODEL: D:\p\11\110577E-Blmarch\_Road (P556)X.CADD - DWG04.7\_Tpm\CAD\_Sheets\0570B05-shc-Typical.dgn  
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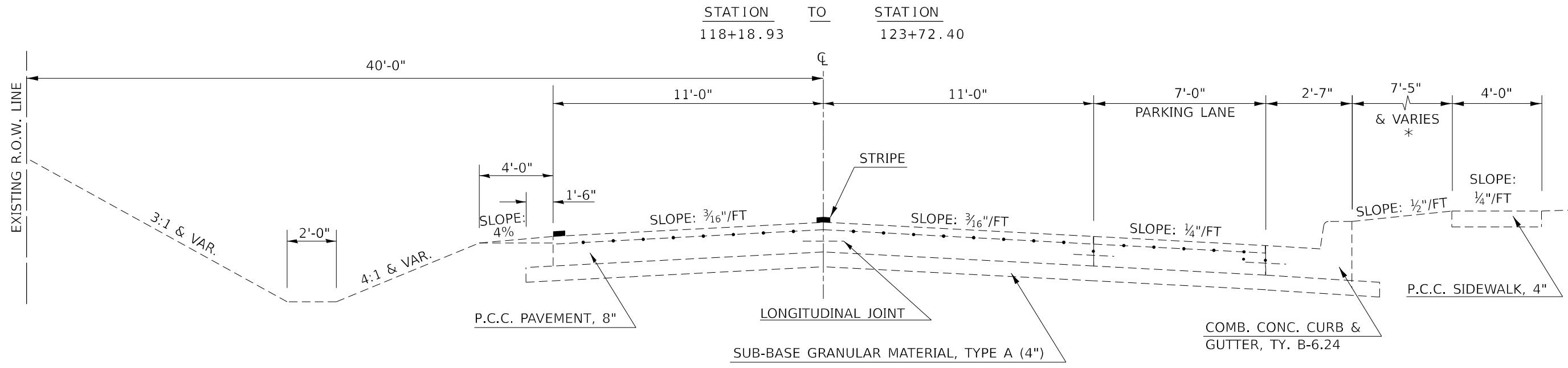
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DRAWN -	BAB	REVISOR -		REVISOR -	
CHECKED -	TBP	DATE -	12/2022	REVISOR -	
PLOT SCALE =	40,000' / in.				
PLOT DATE =	12/12/2022				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

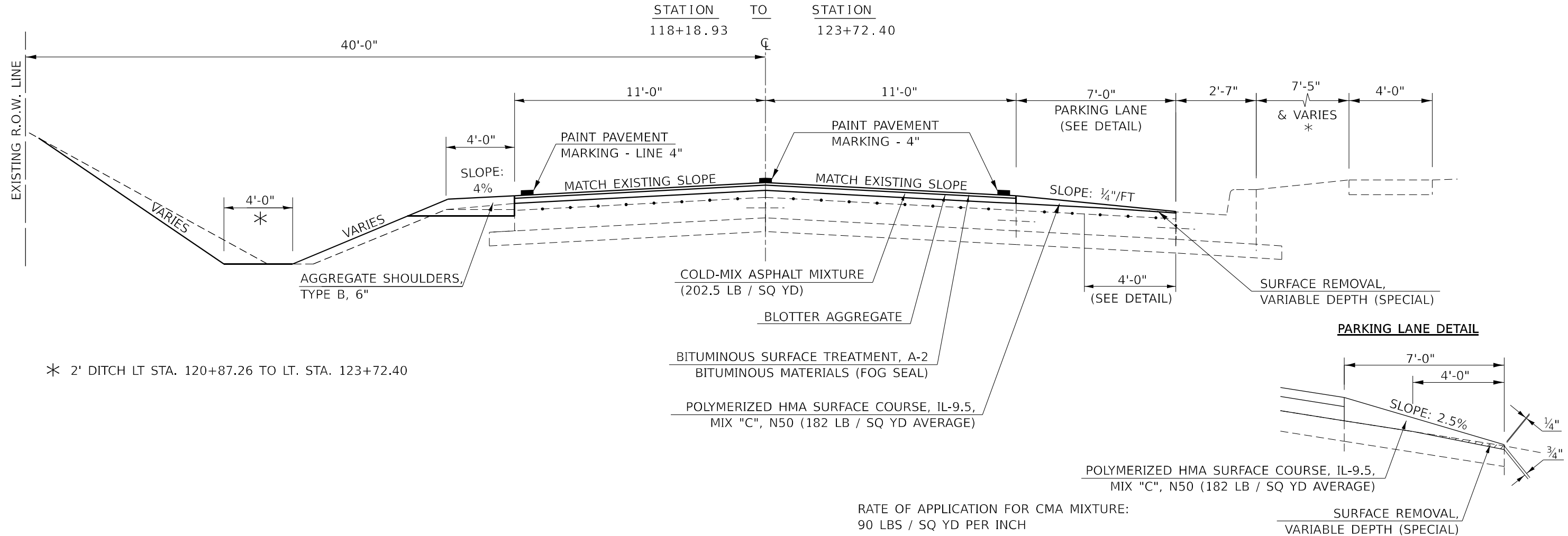
TYPICAL SECTIONS	
SCALE: N.T.S.	SHEET 9 OF 13 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	KRS-2	VERMILION	111	22
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

# 10 EXISTING TYPICAL CROSS SECTION



# J PROPOSED TYPICAL CROSS SECTION



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USER NAME = bbillhartz	DESIGNED - EKF	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - BAB	REVISED -
PLOT DATE = 12/12/2022	CHECKED - TBP	REVISED -
	DATE - 12/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>			
SCALE: N.T.S.	SHEET 10	OF 13 SHEETS	STA. TO STA.

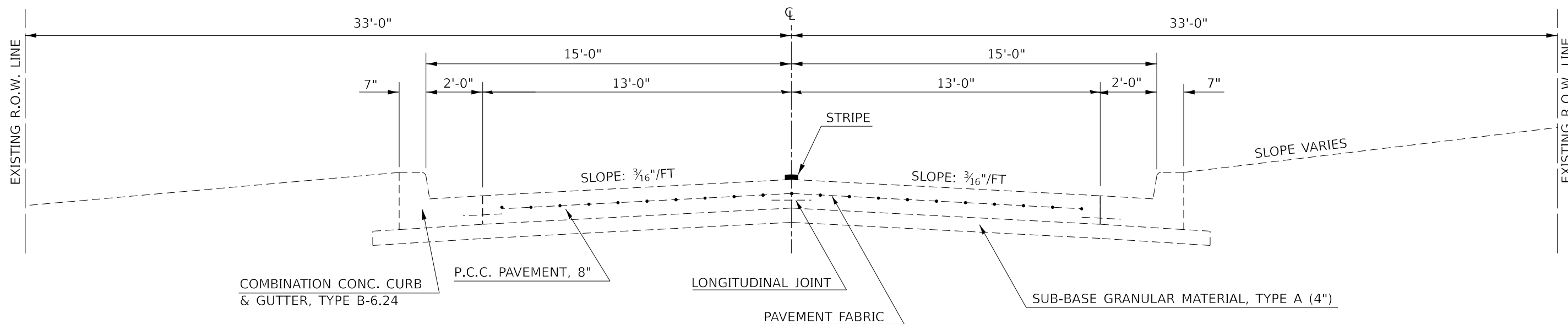
F.A.S. RTE. 497A	SECTION KRS-2	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 23
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				





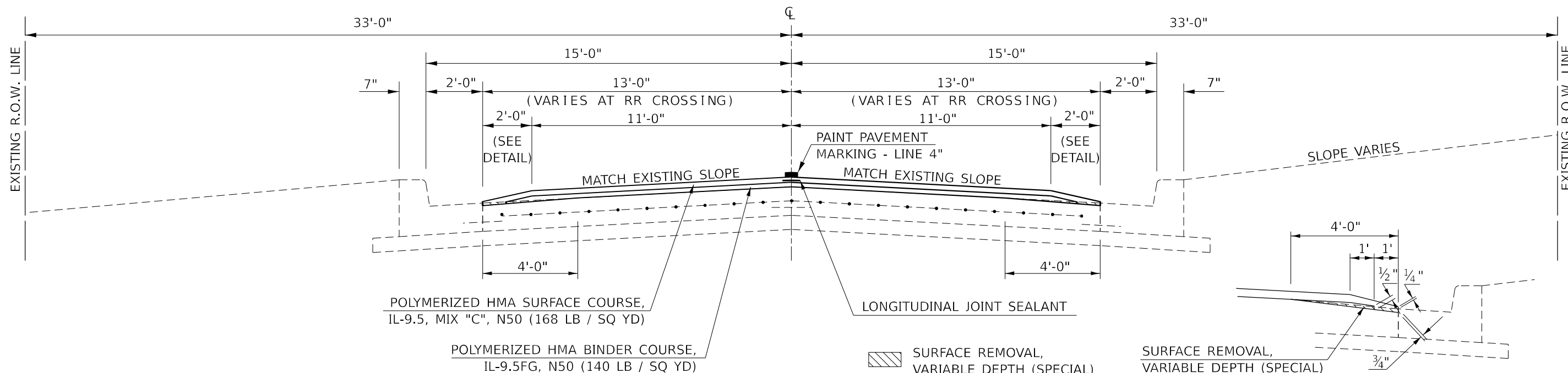
## 12 EXISTING TYPICAL CROSS SECTION

STATION	TO	STATION	
135+60.67		136+60.67	OMISSION: STA. 136+60.67 TO STA. 136+69.51
136+69.51		139+97.02	OMISSION: STA. 139+97.02 TO STA. 140+90.95



## L PROPOSED TYPICAL CROSS SECTION

STATION	TO	STATION	
135+60.67		136+60.67	OMISSION: STA. 136+60.67 TO STA. 136+69.51
136+69.51		139+97.02	OMISSION: STA. 139+97.02 TO STA. 140+90.95



MODEL: D:\p\11\110577E-Benchmark\_Road (P565)X\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-shc-Typical.dgn  
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**TWM, INC.**  
 ENGINEERING  
 GEOSPATIAL SERVICES  
 IL DESIGN FIRM  
 LICENSE NO: 184-001220

USER NAME = bbillhartz	DESIGNED - EKF	REVISED -	
	DRAWN - BAB	REVISED -	
PLOT SCALE = 40,000' / in.	CHECKED - TBP	REVISED -	
PLOT DATE = 12/12/2022	DATE - 12/2022	REVISED -	

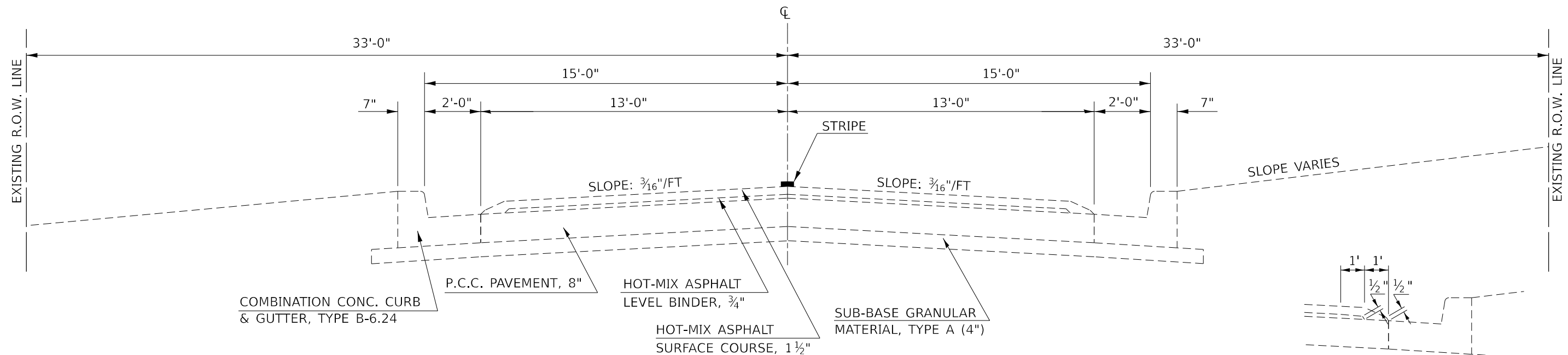
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
SCALE: N.T.S.	SHEET 12 OF 13 SHEETS STA. TO STA.

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 25
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

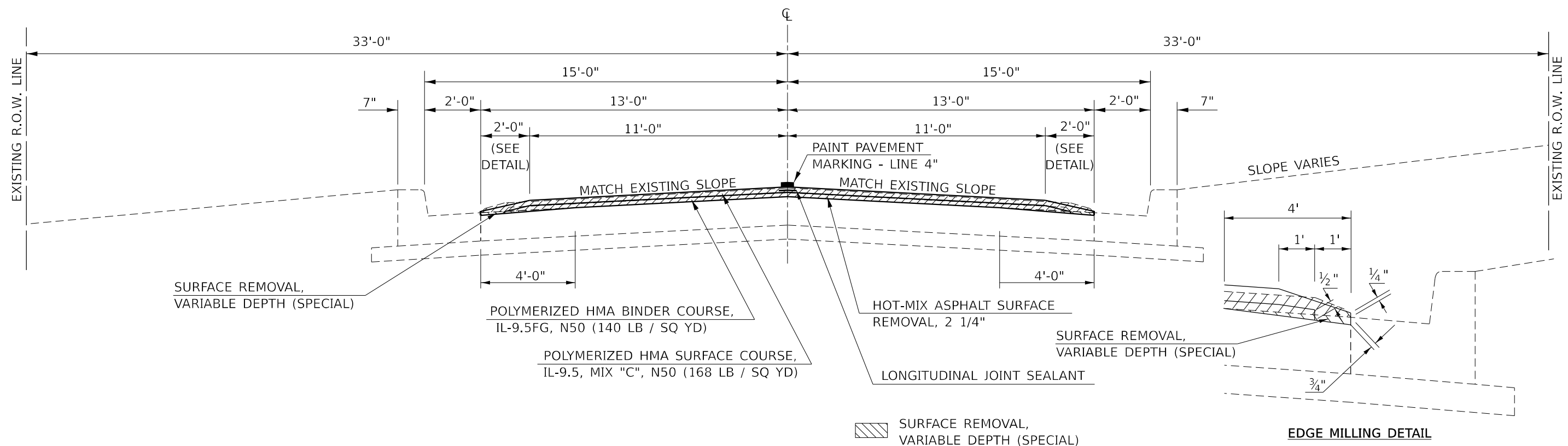
### 13 EXISTING TYPICAL CROSS SECTION

STATION TO STATION  
140+90.95 142+21.99



### M PROPOSED TYPICAL CROSS SECTION

STATION TO STATION  
140+90.95 142+21.99



MODEL: D:\p\11\110577E\Bennett\_Road\PS&E\1\1\110577E\Typical.dgn  
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USER NAME =	bbillhartz	DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	REVISOR -		REVISOR -	
PLOT SCALE =	40,000' / in.	CHECKED -	TBP	REVISOR -	
PLOT DATE =	12/12/2022	DATE -	12/2022	REVISOR -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: N.T.S. SHEET 13 OF 13 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	26
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	

DRAINAGE STRUCTURES REMOVAL SCHEDULE										
LOCATION	44000500	55100300	55100500	55101200	55101400	55101600	60500040	60500060	61100500	X0324079
	COMBINATION CURB AND GUTTER REMOVAL *	STORM SEWER REMOVAL, 8"	STORM SEWER REMOVAL, 12"	STORM SEWER REMOVAL, 24"	STORM SEWER REMOVAL, 30"	STORM SEWER REMOVAL, 36"	REMOVING MANHOLES	REMOVING INLETS	EXPLORATION TRENCH 52" DEPTH **	EXISTING FIELD TILE REMOVAL **
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	FOOT	FOOT
<b>ILLINOIS STREET</b>										
SE QUAD	7.9		9.5					1		
<b>CENTER STREET</b>										
SW QUAD	5.8		26.3					1		
SE QUAD	6.9		10.6					1		
<b>STA. 120+42.00</b>										
LEFT SIDE			33.9		16.0	4.2	1	2	15	15
<b>MYERS AVENUE</b>										
SW QUAD			7.5							
SE QUAD	7.1		39.3					1		
<b>CHICAGO AVENUE</b>										
NE QUAD	10.0		3.1					1		
SE QUAD	7.1		8.1					1		
<b>BOWMANN AVENUE</b>										
SW QUAD	34.9	8.0		7.6		14	1			
<b>PAY TOTAL:</b>	<b>80</b>	<b>8</b>	<b>138</b>	<b>8</b>	<b>16</b>	<b>18</b>	<b>2</b>	<b>8</b>	<b>15</b>	<b>15</b>

\* SEE SIDEWALK SCHEDULE AND EXPANSION JOINT SPECIAL SCHEDULE FOR ADDITIONAL QUANTITIES

\*\* SEE FIELD TILE REPAIR SCHEDULE FOR ADDITIONAL QUANTITIES

FIELD TILE REPAIR							
LOCATION	4200060	61100500	61100605	61133100	61140000	X0324079	Z0018700
	WELDED WIRE REINFORCEMENT **	EXPLORATION TRENCH 52" DEPTH *	MISCELLANEOUS CONCRETE	FIELD TILE JUNCTION VAULTS, 2' DIAMETER **	STORM SEWERS (SPECIAL), 8" **	EXISTING FIELD TILE REMOVAL *	DRAINAGE STRUCTURE TO BE REMOVED
	SQ YD	FOOT	CU YD	EACH	FOOT	FOOT	EACH
FIELD TILE REPAIR - STA. 109+10.00		20	0.4		20	20	
FIELD TILE REPAIR - STA. 111+90.00	12	10	2.0	4	50	10	1
FIELD TILE REPAIR - STA. 117+50.00		20	0.4		20	20	
FIELD TILE REPAIR - STA. 118+80.00		20	0.4		20	20	
<b>PAY TOTAL:</b>	<b>12</b>	<b>70</b>	<b>3.1</b>	<b>4</b>	<b>110</b>	<b>70</b>	<b>1</b>

\* SEE DRAINAGE STRUCTURES REMOVAL SCHEDULE FOR ADDITIONAL QUANTITIES

\*\* SEE DRAINAGE STRUCTURES SCHEDULE FOR ADDITIONAL QUANTITIES

SEEDING SCHEDULE										
LOCATION				25000210	25000400	25000500	25000600	25100115	25100635	28000250
				SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH METHOD 2	HEAVY DUTY EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING
STATION	TO	STATION	LT/RT	ACRE	POUND	POUND	POUND	ACRE	SQ YD	POUND
<b>BISMARCK ROAD</b>										
101+00.00	TO	123+72.40	LT	0.862	77.6	77.6	77.6		4173.4	172.4
101+00.00	TO	113+92.58	RT	0.365	32.9	32.9	32.9	0.365		73.0
<b>MISCELLANEOUS AREAS</b>				<b>LT/RT</b>	<b>0.250</b>	<b>22.5</b>	<b>22.5</b>	<b>22.5</b>	<b>0.250</b>	<b>50.0</b>
<b>TOTAL:</b>				<b>1.477</b>	<b>132.9</b>	<b>132.9</b>	<b>132.9</b>	<b>0.615</b>	<b>4173.4</b>	<b>295.4</b>
<b>PAY TOTAL:</b>				<b>1.5</b>	<b>130</b>	<b>130</b>	<b>130</b>	<b>0.5</b>	<b>4173</b>	<b>300</b>

EARTHWORK SCHEDULE						
LOCATION			20200100	FOR INFORMATION ONLY		
			EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)
STATION	TO	STATION	CU YD	CU YD	CU YD	CU YD
<b>BISMARCK ROAD</b>						
11+76.70	TO	74+28.20	271			
101+00.00	TO	123+00.00	421	316	287	29
<b>SUB-TOTAL:</b>			<b>692</b>	<b>316</b>	<b>287</b>	<b>29</b>
<b>PAY TOTAL:</b>			<b>690</b>			

MODEL: D:\default\TWM\11180577E-Bismarck\_Road\PS&E\1\4\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rhs-Schedule.dgn  
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**TWM, INC.**  
 www.twm-inc.com  
 IL DESIGN FIRM LICENSE NO: 184-001220  
 USER NAME = bbillhartz  
 PLOT SCALE = 2,000 \* 1/4" in.  
 PLOT DATE = 12/12/2022

DESIGNED - EKF	REVISED -
DRAWN - BAB	REVISED -
CHECKED - TBP	REVISED -
DATE - 12/2022	REVISED -

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

**SCHEDULE OF QUANTITIES**  
 SCALE: SHEET 1 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	27
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

**DRAINAGE STRUCTURE SCHEDULE**

LOCATION	54248510	550A0050	550A0120	550A0160	60223800	60223810	60224005	60235300	60235700	60240215	60240220	60605000	61133100	61140000	61141100	X6024207	42000060	X6061460
	CONCRETE COLLAR	STORM SEWERS, CLASS A, TYPE 1, 12"	STORM SEWERS, CLASS A, TYPE 1, 24"	STORM SEWERS, CLASS A, TYPE 1, 36"	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 3 FRAME AND GRATE	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 *	FIELD TILE JUNCTION VAULTS, 2' DIAMETER **	STORM SEWERS (SPECIAL), 8" **	STORM SEWERS (SPECIAL) 30"	MEDIAN INLET (604106), SPECIAL	WELDED WIRE REINFORCEMENT **	PAVED DITCH (SPECIAL)
	CU YD	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	EACH	FOOT	FOOT	EACH	SQ YD	FOOT
<b>ILLINOIS STREET</b>																		
SE QUAD	0.25	10.5							1			7.9						
<b>CENTER STREET</b>																		
SW QUAD		24.2								1	1	5.8						
SE QUAD	0.25	7.6							1	1		6.9						
<b>STA. 120+44.50</b>																		
LEFT SIDE	0.57		18.4		1		1						1	9.5	8.5	2	25.9	33.3
<b>MYERS AVENUE</b>																		
SW QUAD	0.50	32.3								1								
SE QUAD		10.2						1			1	7.1						
<b>CHICAGO AVENUE</b>																		
NE QUAD	0.25	3.8							1			10.0						
SE QUAD	0.25	10							1			7.1						
<b>BOWMANN AVENUE</b>																		
SW QUAD	1.33		7.6	14.0		1						34.9		8				
<b>PAY TOTAL :</b>	<b>3.4</b>	<b>99</b>	<b>26</b>	<b>14</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>80</b>	<b>1</b>	<b>17</b>	<b>9</b>	<b>2</b>	<b>26</b>	<b>33</b>

\* SEE SIDEWALK AND EXPANSION JOINT SPECIAL SCHEDULES FOR ADDITIONAL QUANTITY

\*\* SEE FIELD TILE REPAIR SCHEDULE FOR ADDITIONAL QUANTITY

**SIDEWALK SCHEDULE**

LOCATION	QUADRANT	LT/RT	42400200	42400300	42400800	44000500	44000600	60605000	X4404700	X6061005	X7800200
			PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	PORTLAND CEMENT CONCRETE SIDEWALK, 6 INCH	DETECTABLE WARNINGS	COMBINATION CURB AND GUTTER REMOVAL *	SIDEWALK REMOVAL	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 **	SIDEWALK REMOVAL (SPECIAL)	CONCRETE CURB, TYPE B (SPECIAL)	PAINT PAVEMENT MARKING CURB
			SQ FT	SQ FT	SQ FT	FOOT	SQ FT	FOOT	SQ FT	FOOT	FOOT
STA. 100+26.38 TO 100+29.38		LT					18.1				
<b>MYERS AVENUE</b>											
SW QUAD		RT					27.5				
<b>SCHOOL DROP OFF</b>											
NW QUAD		LT	264.8		10.0	27.1	230.7	27.1			83.4
NE QUAD		LT	263.2		10.0	22.1	227.3	22.1			
<b>CHICAGO AVENUE</b>											
NW QUAD		LT	189.0		22.0	35.3	172.9	35.3		32.5	
SW QUAD		RT	210.2		22.0	26.7	172.6	26.7			
<b>RAILROAD CROSSING</b>											
NW QUAD		LT	204.0		10.0				191.7		
SW QUAD		RT	209.1		10.0				178.6		
NE QUAD		LT	149.6	59.7	10.0				191.2		
SE QUAD		RT	145.3	54.7	10.0				167.9		
<b>PAY TOTAL :</b>			<b>1635</b>	<b>114</b>	<b>104</b>	<b>111</b>	<b>849</b>	<b>111</b>	<b>729</b>	<b>33</b>	<b>83</b>

\* SEE DRAINAGE STRUCTURES REMOVAL AND EXPANSION JOINT SPECIAL SCHEDULES FOR ADDITIONAL QUANTITIES

\*\* SEE DRAINAGE STRUCTURES AND EXPANSION JOINT SPECIAL SCHEDULES FOR ADDITIONAL QUANTITIES

**DRAINAGE STRUCTURE PATCHING SCHEDULE**

LOCATION	44201329	44201333	44201335
	CLASS C PATCHES, TYPE II, 8"	CLASS C PATCHES, TYPE III, 8"	CLASS C PATCHES, TYPE IV, 8"
	SQ YD	SQ YD	SQ YD
<b>ILLINOIS STREET</b>			
SE QUAD	7.6		
<b>CENTER STREET</b>			
SW QUAD		24.2	
SE QUAD			
<b>STA. 120+44.50</b>			
LEFT SIDE			
<b>MYERS AVENUE</b>			
SW QUAD			41.2
SE QUAD			
<b>CHICAGO AVENUE</b>			
NE QUAD	6.0		
SE QUAD	7.0		
<b>BOWMANN AVENUE</b>			
SW QUAD		20.8	
<b>PAY TOTAL :</b>	<b>21</b>	<b>45</b>	<b>41</b>

MODEL: D:\p\11\110577E-Benchmark\_Road (P55E)\X\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rhs-Schedule.dgn



USER NAME = bbillhartz  
 DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

REVISD -  
 REVISD -  
 REVISD -  
 REVISD -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 2 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	28
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

MAINLINE REMOVAL SCHEDULE									
LOCATION				40600982	40600985	44000158	44000160	X0326440	X4401198
				HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT *	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT **	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
STATION	TO	STATION	LT/RT	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
<b>BISMARCK ROAD</b>									
7+98.98	TO	13+70.59	LT/RT	194.4			2011.3		
13+70.59	TO	14+25.29	LT/RT						134.3
26+98.62	TO	27+28.62	LT/RT		73.3				
28+75.83	TO	29+05.83	LT/RT		73.3				
30+65.61	TO	30+95.61	LT/RT		73.3				
34+84.22	TO	30+95.61	LT/RT		73.3				
113+14.81	TO	136+00.67	RT				1005.8		
122+75.34	TO	136+00.67	LT				562.4		
136+00.67	TO	136+60.67	LT/RT	202.0					
136+69.51	TO	137+17.51	LT/RT	173.3					
137+17.51	TO	139+91.02	LT/RT				241.1		
139+61.02	TO	139+91.02	LT/RT		73.3				
140+90.95	TO	142+21.99	LT/RT	139.5		489.5		126.9	
<b>PAY TOTAL:</b>				<b>709</b>	<b>367</b>	<b>489</b>	<b>2011</b>	<b>1936</b>	<b>134</b>

\* SEE SIDEROADS SCHEDULE FOR ADDITIONAL QUANTITY

\*\* SEE ENTRANCE SCHEDULE FOR ADDITIONAL QUANTITY

ADJUSTMENT SCHEDULE				
LOCATION			60255500	60300305
			MANHOLES TO BE ADJUSTED	FRAMES AND LIDS TO BE ADJUSTED
STATION	OFFSET	LT/RT	EACH	EACH
<b>BISMARCK ROAD</b>				
116+88.42	4.66	LT	1	
120+53.09	6.92	LT	1	
123+77.44	5.56	RT	1	
125+83.81	6.03	RT	1	
127+39.26	30.6	RT		1
127+55.21	6.82	RT	1	
130+80.57	6.56	RT	1	
133+84.07	15.7	RT		1
134+20.23	6.64	RT	1	
134+40.96	15.9	RT		1
139+93.70	15.1	RT		
<b>PAY TOTAL:</b>			<b>7</b>	<b>3</b>

SIDEROADS SCHEDULE					
LOCATION		40600982	40600990	40800025	40800050
		HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT *	TEMPORARY RAMP **	BITUMINOUS MATERIALS (PRIME COAT) ***	INCIDENTAL HOT-MIX ASPHALT SURFACING ****
		SQ YD	SQ YD	POUND	TON
<b>1600 E ROAD</b>				365.3	25.0
<b>VIRGINIA DRIVE</b>				324.5	22.2
<b>SHAKE RAG ROAD (NORTH)</b>				332.5	22.8
<b>SHAKE RAG ROAD (SOUTH)</b>		93.0	22.4	457.2	31.3
<b>CRYSTAL LANE</b>				323.2	22.1
<b>PAY TOTAL:</b>		<b>93</b>	<b>22</b>	<b>1803</b>	<b>124</b>

\* SEE MAINLINE REMOVAL SCHEDULE FOR ADDITIONAL QUANTITIES

\*\* SEE MAINLINE PAVING SCHEDULE FOR ADDITIONAL QUANTITIES

\*\*\* SEE ENTRANCE AND MAILBOX TURNOUT SCHEDULES FOR ADDITIONAL QUANTITIES

\*\*\*\* SEE MAILBOX TURNOUT AND ENTRANCE SCHEDULES FOR ADDITIONAL QUANTITIES

EXPANSION JOINT SPECIAL SCHEDULE									
LOCATION				44000500	44201298	44213200	60260500	60605000	Z0021400
				COMBINATION CONCRETE CURB AND GUTTER REMOVAL *	DOWEL BARS 1 1/4"	SAW CUTS	INLETS TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 **	EXPANSION JOINT (SPECIAL)
STATION	TO	STATION	LT/RT	FOOT	EACH	FOOT	EACH	FOOT	FOOT
<b>BISMARCK ROAD</b>									
139+91.02	TO	139+97.02	LT	6.0		45.0		6	
139+91.02	TO	139+97.02	RT	6.0		45.0	1	6	
139+91.02			LT/RT		24.0				
139+97.02			LT/RT						26.0
<b>PAY TOTAL:</b>				<b>12</b>	<b>24</b>	<b>90</b>	<b>1</b>	<b>12</b>	<b>26</b>

\* SEE DRAINAGE STRUCTURE REMOVALS AND SIDEWALK SCHEDULES FOR ADDITIONAL QUANTITIES

\*\* SEE DRAINAGE STRUCTURES AND SIDEWALK SCHEDULES FOR ADDITIONAL QUANTITIES

MODEL: D:\p\11\110577E-Bismarck\_Road (P556)X.CADD - DWG\17\_Trim\CAD\_Sheets\0570B05-rhs-Schedule.dgn  
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 LICENSE NO: 184-001220

USER NAME = bbillhartz  
 DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

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 REVISED -  
 REVISED -

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

**SCHEDULE OF QUANTITIES**  
 SCALE: SHEET 3 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	29
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

PATCHING SCHEDULE													
LOCATION				40600400	44201737	44201741	44201745	44201747	44201777	45200100	X4406030	X4406230	X4421000
				MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	CLASS D PATCHES, TYPE I, 8 INCH	CLASS D PATCHES, TYPE II, 8 INCH	CLASS D PATCHES, TYPE III, 8 INCH	CLASS D PATCHES, TYPE IV, 8 INCH	CLASS D PATCHES, TYPE II, 11 INCH	JOINT OR CRACK ROUTING (PCC CONCRETE PAVEMENT AND SHOULDER)	PARTIAL DEPTH REMOVAL, TYPE I, 3"	PARTIAL DEPTH REMOVAL, TYPE II, 3"	PARTIAL DEPTH PATCHING
STATION	LANE	LENGTH	WIDTH	TON	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	FEET	SQ YD	SQ YD	TON
<b>BISMARCK ROAD - EB</b>													
14+34.00	DL	100	11					122.2					
63+44.00	DL	6	11			7.3							
76+11.00	DL	30	11					36.7					
81+92.00	DL	12	11			14.7							
84+03.00	DL	4	11		4.9								
85+09.00	DL	6	11			7.3							
94+59.00	DL EDGE	10	5			6.1							
96+18.00	DL	4	11		4.9								
104+62.00	DL	6	11			7.3							
113+06.00	DL	4	11		4.9								
119+94.00	DL	6	11			7.3							
<b>BISMARCK ROAD - WB</b>													
20+14.00	DL EDGE	40	6					24.4					
30+18.00	DL EDGE	30	6					18.3					
54+46.00	DL	10	11			12.2							
63+44.00	DL	6	11			7.3							
85+09.00	DL	6	11			7.3							
96+18.00	DL	4	11		4.9								
104+62.00	DL	6	11			7.3							
113+06.00	DL	4	11		4.9								
119+94.00	DL	6	11			7.3							
<b>SN 092-0193 EAST APPROACH</b>													
140+90.95	LT	4	13						5.8				
140+90.95	RT	4	13						5.8				
<b>ALLOWANCES:</b>				12						6000	100	300	67
<b>PAY TOTAL:</b>				12	24	92	43	159	12	6000	100	300	67

SIGNAGE SCHEDULE					
LOCATION	DESCRIPTION	72000100		72800100	
		SIGN PANEL - TYPE 1		TELESCOPING STEEL SIGN SUPPORT	
		SIGN	SIZE	SQ FT	FOOT
<b>BISMARCK ROAD</b>					
RAILROAD CROSSING	GRADE CROSSING ADVANCE WARNING	36" DIA.		9.00	14.0
	GRADE CROSSING ADVANCE WARNING	36" DIA.		9.00	14.0
	LOOK	36	X 18	4.50	12.5
	LOOK	36	X 18	4.50	12.0
	LOOK	36	X 18	4.50	12.5
	LOOK	36	X 18	4.50	12.5
	GRADE CROSSING ADVANCE WARNING	36" DIA.		9.00	14.0
	GRADE CROSSING ADVANCE WARNING	36" DIA.		9.00	14.0
<b>PAY TOTAL:</b>				54	106

EROSION CONTROL SCHEDULE						
LOCATION				28000305		28000500
				TEMPORARY DITCH CHECKS		INLET AND PIPE PROTECTION
STATION	TO	STATION	LT/RT	EA	FOOT	EACH
<b>BISMARCK ROAD</b>						
101+00.00	TO	123+72.40	LT	22	212.0	5
101+00.00	TO	113+92.58	RT	8	72.0	6
<b>ILLINOIS STREET</b>						1
<b>CENTER STREET</b>						2
<b>MYERS AVENUE</b>						1
<b>CHICAGO AVENUE</b>						2
<b>BOWMAN AVENUE</b>						1
<b>PAY TOTAL:</b>					284	18

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USER NAME = bbillhartz  
 DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022  
 PLOT SCALE = 2,000 \* 1/4" = 1/2" = 12/12/2022

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**  
 SCALE: SHEET 4 OF 11 SHEETS STA. TO STA.

F.A.S. RTE. 497A	SECTION KIRS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 30
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

**TEMPORARY PAVEMENT MARKING SCHEDULE**

STATION	TO	STATION	LOCATION	TYPE	70300100	70300150	70300211	70300221		70300241	70300261	70300281	78300201
					SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT		TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	TEMPORARY PAVEMENT MARKING - LINE 12" - PAINT	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	PAVEMENT MARKING REMOVAL - GRINDING
								YELLOW	WHITE				
FOOT	SQ FT	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT		
<b>BISMARCK ROAD</b>													
7+98.98 TO 27+28.62	CENTERLINE	DOUBLE	SKIP - DASH	204.0	22.7			1267.6					422.5
								320.9				107.0	
								49.5				16.5	
	EDGE LINE RT	SOLID						1942.6					647.5
	EDGE LINE LT	SOLID						1969.9					656.6
	ISLAND MARKING	SOLID							133.0	74.5			141.0
STOP BARS	SOLID										30.0	60.0	
SHOULDERS LT	SOLID DIAGONALS	56.0	9.3										
28+75.83 TO 30+95.61	CENTERLINE	DOUBLE	SKIP-DASH	60.0	6.7			219.8					73.3
								54.9	219.8			91.6	
	EDGE LINE RT	SOLID						141.2					47.1
EDGE LINE LT	SOLID												
34+84.22 TO 136+60.67	CENTERLINE	DOUBLE	SKIP-DASH	72.0	8.0			3155.5					1051.8
								2149.7				716.6	
								2194.8				731.6	
	EDGE LINE RT	SOLID						9540.7				3180.2	
	EDGE LINE LT	SOLID						9917.5				3305.8	
	SCHOOL DROP OFF	SOLID								*			
	CROSSWALK	SOLID							76.0	72.0			110.0
	STOP BAR	SOLID								13.0			13.0
RAILROAD CROSSING					61.2						33.0	127.2	
136+69.51 TO 139+97.02	CENTERLINE	DOUBLE	SKIP-DASH	96.0	10.7			538.0					179.3
								14.5				4.8	
	EDGE LINE RT	SOLID											
	EDGE LINE LT	SOLID				61.2						61.2	
RAILROAD CROSSING											39.0	78.0	
140+90.95 TO 142+21.99	CENTERLINE	SKIP-DASH	36.0	4.0				28.8					9.6
	EDGE LINE RT	SOLID											
	EDGE LINE LT	SOLID											
	STOP BAR	SOLID									24.0	48.0	
<b>PAY TOTAL :</b>					<b>524</b>	<b>61</b>	<b>122</b>	<b>9994</b>	<b>23732</b>	<b>209</b>	<b>160</b>	<b>126</b>	<b>11881</b>
								<b>33726</b>					

\* NO TEMPORARY PAVEMENT MARKING PROVIDED FOR SCHOOL DROPOFF AREA. FINAL CONDITIONS ONLY.

**PIPE CULVERT SCHEDULE**

STATION	TO	STATION	LT/RT	50105220	54261724	542D0229
				PIPE CULVERT REMOVAL	STEEL FLARED END SECTIONS, 24 INCH	PIPE CULVERTS CLASS D, TYPE 1, 24 INCH
				FOOT	EACH	FOOT
<b>BISMARCK ROAD</b>						
101+51.83	TO	101+86.50	LT	34.1	2	34.7
120+86.88	TO	121+53.92	LT	65.0	2	65.7
<b>PAY TOTAL :</b>				<b>99</b>	<b>4</b>	<b>100</b>

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USER NAME = bbillhartz  
DESIGNED - EKF  
DRAWN - BAB  
CHECKED - TBP  
DATE - 12/2022

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REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 5 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	31
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

ENTRANCE SCHEDULE									
LOCATION		35101800	40200800	40600985	40800025	40800050	44000155	44000200	X4400196
		AGGREGATE BASE COURSE, TYPE B, 6"	AGGREGATE SURFACE COURSE, TYPE B	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT **	BITUMINOUS MATERIALS (PRIME COAT) ***	INCIDENTAL HOT-MIX ASPHALT SURFACING ****	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" *****	DRIVEWAY PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL
STATION	LT/RT	SQ YD	TON	SQ YD	POUND	TON	SQ YD	SQ YD	SQ YD
BISMARCK ROAD									
9+93.49	RT				42.5	1.6	18.9		
20+61.65	LT	47.7			107.2	7.2			
21+93.54	LT	69.5			156.4	12.1			
35+25.05	RT				16.8	0.9			
36+95.41	LT				73.3	3.9			
40+51.60	LT				73.2	3.9			
41+38.70	RT			32.4	72.9	3.9			
42+25.77	RT	12.3		20.9	74.4	3.9		12.3	
43+44.22	LT	50.4			113.4	7.8			
43+65.22	RT				52.9			7.4	
44+92.42	LT				12.8	0.9			
45+84.93	LT				12.1	0.8			
48+31.00	RT				109.0	5.8			
48+35.45	LT				21.6	1.1			
51+79.47	LT				21.7	1.5			
52+58.70	LT				93.1	4.4			
57+17.64	LT				22.3	1.5			
57+51.50	LT				90.3	1.2			
59+77.99	LT				91.3	4.8			
60+30.59	RT	15.2			88.7	4.7		15.2	
60+96.84	LT				99.7	5.3			
61+02.33	RT	15.3		25.6	92.1	4.9		15.3	
62+33.11	RT	15.4			92.4	4.9		15.4	
63+71.13	RT	15.3			91.1	4.8		15.3	
63+97.43	LT	15.3			92.7	4.9		15.3	
64+37.32	RT	15.2			92.0	4.9		15.2	
64+90.45	RT			40.2	90.4	4.8			
65+44.29	LT	23.3			52.5	3.6			
67+17.19	RT	14.3			90.4	4.8		14.3	
68+38.79	LT				84.6	4.5			
68+49.60	RT	15.1			92.4	4.9		15.1	
69+42.16	LT				15.1	1.0			
70+38.66	RT				13.1	0.9			
71+61.50	RT				12.6	0.9			
74+35.48	LT				90.7	4.8			
74+71.95	LT			41.1	92.5	4.9			
74+76.98	RT	14.9			92.0	4.9		14.9	
76+19.74	RT				78.8	4.2			35.0
76+33.27	LT				91.2	4.8			
76+90.86	LT				66.6	3.5			
77+03.75	RT	14.8			94.2	5.0		14.8	
79+98.92	RT	15.3			93.0	4.9		15.3	
81+17.18	RT				93.4	4.9			
82+96.52	LT			58.9	132.6	7.0			
83+11.69	RT	11.3			105.6	7.2			
84+41.96	LT				90.5	4.8			
87+04.14	RT				69.2	3.7			30.8
91+10.81	RT				96.1	5.1			
92+64.52	RT				93.9	5.0			
SUBTOTAL :		380	0	219	3,737	201	19	186	66

(CONTINUED ON NEXT SHEET)

SURVEY MARKER SCHEDULE				
LOCATION		XZ193400	Z0070100	Z0070202
		SURVEY MARKER, TYPE 2 (SPECIAL)	SURVEY MONUMENT COVER ASSEMBLY	SURVEY MARKER VAULT
STATION	OFFSET	EACH	EACH	EACH
BISMARCK ROAD				
4+60.99	2.25 LT	1.0		
7+79.86	0.00	1.0		
10+13.99	7.2 LT	1.0		
11+33.61	0.00	1.0		
12+62.11	0.00	1.0		
13+44.23	1.71 RT	1.0		
19+27.69	9.25 RT	1.0		
21+93.54	0.00	1.0		
37+72.82	0.00	1.0		
43+23.73	0.00	1.0		
49+95.26	0.00	1.0		
56+55.83	0.00	1.0		
75+79.51	5.3 LT	1.0		
81+49.62	0.00	1.0		
85+37.81	0.00	1.0		
88+11.30	0.00	1.0		
92+90.21	0.00	1.0		
99+15.89	1.3 RT	1.0		
114+70.88	0.00	1.0		
127+78.01	0.00	1.0		
140+83.65	0.17 RT		1.0	1.0
142+32.65	0.00		1.0	1.0
PAY TOTAL :		20	2	2

MODEL: D:\p\11\110577E-Bismarck\_Road (P56E)\X\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rhs-Schedule.dgn  
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USER NAME = bbillhartz  
 PLOT SCALE = 2,000' = 1" in.  
 PLOT DATE = 12/12/2022

DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 6 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	32
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



**ENTRANCE SCHEDULE (CONTINUED)**

LOCATION		35101800	40200800	40600985	40800025	40800050	44000155	44000200	X4400196
		AGGREGATE BASE COURSE, TYPE B, 6" *	AGGREGATE SURFACE COURSE, TYPE B	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT **	BITUMINOUS MATERIALS (PRIME COAT) ***	INCIDENTAL HOT-MIX ASPHALT SURFACING ****	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" *****	DRIVEWAY PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL
STATION	LT/RT	SQ YD	TON	SQ YD	POUND	TON	SQ YD	SQ YD	SQ YD
<b>BISMARCK ROAD</b>									
93+29.18	LT	12.1			61.1	4.2			
94+88.44	RT	16.3		31.8	108.3	5.7		16.3	
95+09.59	RT	10.4			76.7	4.1		10.4	
95+32.72	LT			57.3	128.9	6.8			
96+87.42	LT			60.6	136.4	7.2			
96+90.65	RT				94.0	5.0			
99+68.47	LT	15.3			92.5	4.9		15.3	
100+62.67	RT				93.5	4.9			
101+70.53	LT		6.7		22.2	1.2			
102+09.68	RT			94.6	212.9	11.3			
104+38.36	RT			46.9	105.6	5.6			
107+79.79	RT			78.6	176.8	9.4			
110+81.01	RT			89.8	202.0	10.7			
112+80.00	RT	15.2		26.8	94.3	5.0		15.2	
121+06.60	LT		2.3		85.7	4.5			
121+33.42	LT		2.2		85.0	4.5			
136+01.84	LT				45.7	3.1			
136+03.68	RT				51.5	3.5			
136+96.76	LT				49.9	3.4			
137+00.03	RT				53.7	3.7			
<b>PAY TOTAL THIS SHEET:</b>		<b>69</b>	<b>11</b>	<b>486</b>	<b>1,977</b>	<b>109</b>	<b>0</b>	<b>57</b>	<b>0</b>
<b>PAY TOTAL PREV SHEET:</b>		<b>380</b>	<b>0</b>	<b>219</b>	<b>3,737</b>	<b>201</b>	<b>19</b>	<b>186</b>	<b>66</b>
<b>PAY TOTAL:</b>		<b>450</b>	<b>11</b>	<b>705</b>	<b>5713</b>	<b>310</b>	<b>19</b>	<b>243</b>	<b>66</b>

\* SEE MAILBOX TURNOUT SCHEDULE FOR ADDITIONAL QUANTITIES  
 \*\* SEE MAINLINE REMOVAL SCHEDULE FOR ADDITIONAL QUANTITIES  
 \*\*\* SEE SIDEROADS AND MAILBOX TURNOUT SCHEDULES FOR ADDITIONAL QUANTITIES  
 \*\*\*\* SEE SIDEROAD AND MAILBOX TURNOUT SCHEDULES FOR ADDITIONAL QUANTITIES  
 \*\*\*\*\* SEE SHOULDERS AND MAILBOX TURNOUT SCHEDULE FOR ADDITIONAL QUANTITIES

MODEL: D:\p\h\...  
 FILE NAME: P:\2018\180577E-Bismarck\_Road (P55E)\V\_CADD - DWG\4.7\_TurnCAD\_Sheets\0570B05-Ent-Schedule.dgn



USER NAME = bbillhartz	DESIGNED - EKF	REVISED -
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PLOT SCALE = 2,000' = 1"	CHECKED - TBP	REVISED -
PLOT DATE = 12/12/2022	DATE - 12/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 7 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	33
CONTRACT NO. 70B05				
		ILLINOIS	FED. AID PROJECT	

**SHOULDER SCHEDULE**

LOCATION					40600290	44000155	48101500	48102100	48203003	48203008	48203023	48203029
					BITUMINOUS MATERIALS (TACK COAT) **	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" *	AGGREGATE SHOULDERS, TYPE B, 6"	AGGREGATE WEDGE SHOULDER, TYPE B	HOT-MIX ASPHALT SHOULDERS, 1 1/2"	HOT-MIX ASPHALT SHOULDERS, 2 3/4"	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	HOT-MIX ASPHALT SHOULDERS, 8"
STATION	TO	STATION	LT/RT	DESCRIPTION	POUND	SQ YD	SQ YD	TON	SQ YD	SQ YD	SQ YD	SQ YD
<b>BISMARCK ROAD</b>												
8+65.72	TO	11+76.70	LT		90.2	200.5			200.5			
9+28.17	TO	27+28.62	RT					70.2				
11+76.70	TO	14+25.59	LT		74.2	69.3			164.9		95.6	
11+76.70	TO	27+28.62	LT					62.1				
14+25.59	TO	20+41.08	LT									407.6
20+82.24	TO	21+62.64	LT									49.5
28+75.83	TO	30+95.61	RT					8.6				
28+75.83	TO	31+06.44	LT					8.0				
34+84.22	TO	44+68.09	LT					39.8				
34+73.77	TO	70+23.11	RT					139.7				
37+00.00	TO	41+25.45	RT									187.4
41+49.83	TO	42+17.55	RT	MAILBOX TYPE III								43.9
42+47.13	TO	45+56.36	RT	MAILBOX TYPE III								201.9
46+23.85	TO	69+14.24	LT					93.1				
49+00.00	TO	52+38.76	LT									139.4
52+70.78	TO	57+06.24	LT									191.9
70+50.57	TO	74+56.97	LT					16.3				
71+71.88	TO	78+06.11	RT					24.0				
73+00.00	TO	74+28.20	RT									52.2
74+28.20	TO	74+59.30	RT									25.0
74+89.02	TO	82+76.53	LT					31.6				
74+95.41	TO	76+01.02	RT									72.9
76+35.57	TO	76+87.64	RT									36.7
77+22.90	TO	77+90.89	RT									40.9
78+28.05	TO	88+36.45	RT					38.8				
81+34.28	TO	84+24.23	LT		44.0					97.9		
83+18.95	TO	87+80.37	LT					18.3				
83+55.37	TO	87+97.58	LT		64.1					142.4		
84+59.95	TO	87+67.08	LT		46.3					102.8		
88+00.07	TO	95+17.60	LT					27.1				
88+42.08	TO	90+75.52	LT		33.8					75.1		
88+54.93	TO	98+46.79	RT					38.9				
88+87.83	TO	90+99.51	RT		27.1					71.2		
91+33.81	TO	92+47.81	RT		17.5					38.9		
92+83.60	TO	94+10.75	RT		19.2					42.6		
95+48.09	TO	96+70.87	LT					4.7				
94+10.75	TO	95+14.80	LT	MAILBOX TYPE III								65.4
95+51.46	TO	96+67.17	LT	MAILBOX TYPE III								69.8
97+03.66	TO	101+00.00	LT					16.0				
97+07.30	TO	97+70.86	LT	MAILBOX TYPE III								28.4
98+66.11	TO	113+15.16	RT					48.1				
101+00.00	TO	123+72.40	LT				776.6					
<b>PAY TOTAL :</b>					<b>416</b>	<b>270</b>	<b>777</b>	<b>685</b>	<b>365</b>	<b>571</b>	<b>96</b>	<b>1613</b>

\* SEE ENTRANCE AND MAILBOX TURNOUT SCHEDULES FOR ADDITIONAL QUANTITIES

\*\* SEE MAINLINE PAVING SCHEDULE FOR ADDITIONAL QUANTITIES

MODEL: D:\p\11\110577E-Bismarck\_Road\PS&E\11\_CADD - DWG\11\_CADD\_Sheets\0570B05-rls-Schedule.dgn



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 8 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	34
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

**MAILBOX TURNOUT SCHEDULE**

					35101800	40800025	40800050	44000155
LOCATION					AGGREGATE BASE COURSE, TYPE B, 6" *	BITUMINOUS MATERIALS (PRIME COAT) **	INCIDENTAL HOT-MIX ASPHALT SURFACING ***	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" ****
STATION	TO	STATION	LT/RT	DESCRIPTION	SQ YD	POUND	TON	SQ YD
<b>BISMARCK ROAD</b>								
9+28.17	TO	9+79.05	RT	MAILBOX TYPE IV	29.7	53.7	2.0	23.9
10+62.01	TO	11+34.82	RT	MAILBOX TYPE IV	39.7	69.9	2.6	31.1
20+27.26	TO	20+98.41	RT	MAILBOX TYPE I	38.9	87.4	4.7	
48+57.94	TO	48+97.95	RT	MAILBOX TYPE I	24.9	56.0	3.1	
52+08.94	TO	52+80.46	RT	MAILBOX TYPE I	38.8	87.3	4.7	
59+62.73	TO	60+13.15	RT	MAILBOX TYPE I	23.6	53.1	3.6	
60+48.17	TO	60+84.00	RT	MAILBOX TYPE I	30.9	69.6	4.0	
61+20.36	TO	61+70.36	RT	MAILBOX TYPE I	33.8	76.1	4.3	
63+90.37	TO	64+16.64	RT	MAILBOX TYPE I	23.3	52.5	3.0	
64+52.55	TO	64+70.48	RT	MAILBOX TYPE I	17.4	39.0	2.2	
67+31.99	TO	68+31.13	RT	MAILBOX TYPE I	80.5	181.2	10.4	
68+67.19	TO	69+92.64	RT	MAILBOX TYPE I	94.4	212.4	12.1	
71+78.98	TO	72+19.02	RT	MAILBOX TYPE IV	26.5	59.8	4.1	
80+17.05	TO	80+99.62	RT	MAILBOX TYPE II	66.5	149.7	8.7	
81+34.11	TO	83+55.63	RT	MAILBOX TYPE II	170.5	383.7	22.5	
90+75.52	TO	94+10.75	LT	MAILBOX TYPE II	143.5	322.8	30.0	
100+05.27	TO	100+77.56	LT	MAILBOX TYPE I	39.4	88.6	4.7	
113+73.17	TO	118+50.60	LT	MAILBOX TYPE VI	120.8	271.8	18.6	
121+50.57	TO	122+48.85	LT	MAILBOX TYPE VI	36.5	82.4	5.6	
<b>PAY TOTAL:</b>					<b>1079</b>	<b>2397</b>	<b>151</b>	<b>55</b>

- \* SEE ENTRANCE SCHEDULES FOR ADDITIONAL QUANTITIES
- \*\* SEE ENTRANCE AND SIDEROADS SCHEDULES FOR ADDITIONAL QUANTITIES
- \*\*\* SEE ENTRANCE AND SIDEROAD SCHEDULES FOR ADDITIONAL QUANTITIES
- \*\*\*\* SEE SHOULDERS AND ENTRANCES SCHEDULES FOR ADDITIONAL QUANTITIES

MODEL: D:\p\h\11\2023\11\180577E-Bismarck\_Road (P55E)\V\_CADD - DWG\4.7\_TurnOutCAD\_Sheets\0570B05-rhs-Schedule.dgn  
 FILE NAME: P:\2023\11\180577E-Bismarck\_Road (P55E)\V\_CADD - DWG\4.7\_TurnOutCAD\_Sheets\0570B05-rhs-Schedule.dgn



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 LICENSE NO: 184-001220

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PLOT DATE = 12/12/2022	DATE - 12/2022	REVISED -

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

<b>SCHEDULE OF QUANTITIES</b>			
SCALE:	SHEET 9	OF 11 SHEETS	STA. TO STA.

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 35
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

**MAINLINE PAVING SCHEDULE**

LOCATION				40600290	40600295	40600370	40600990	40603215	40604150	X0300010	X1500002	X1500005	X4060205	Z0055300
				BITUMINOUS MATERIALS (TACK COAT) **	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	TEMPORARY RAMP *	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C" N50	BITUMINOUS MATERIALS (FOG SEAL)	BLOTTER AGGREGATE	BITUMINOUS SURFACE TREATMENT, A-2	COLD MIX ASPHALT MIXTURE	RUMBLE STRIP
STATION	TO	STATION	LT/RT	POUND	POUND	FOOT	SQ YD	TON	TON	POUND	TON	SQ YD	TON	EACH
<b>BISMARCK ROAD</b>														
7+98.98	TO	8+08.15	LT/RT				275.5							
7+98.98	TO	13+70.59	LT/RT		1357.7	571.6		140.8	169.0					
10+75.00	TO	11+00.00	LT											1
12+75.00	TO	13+00.00	LT											1
14+00.00	TO	14+25.00	LT											1
13+70.59	TO	26+28.62	LT/RT	1383.8						1383.8	23.1	3075.2	311.4	
26+28.62	TO	27+28.62	LT/RT		165.0	100.0		17.11	20.5					
27+23.62	TO	27+28.62	LT/RT				12.2							
28+75.83	TO	28+80.83	LT/RT				12.2							
28+75.83	TO	30+95.61	LT/RT		362.6	219.8		37.61	45.1					
30+90.61	TO	30+95.61	LT/RT				12.2							
34+84.22	TO	35+84.22	LT/RT		165.0	100.0		17.11	20.5					
35+84.22	TO	135+60.67	LT/RT	10974.1						10974.1	182.9	24386.9	2469.2	
112+98.03	TO	136+00.67	RT		797.2				186.0					
122+24.78	TO	136+00.67	LT		456.8				106.6					
135+60.67	TO	136+60.67	LT/RT		202.4	100.0		21.0	25.2					
136+51.50	TO	136+60.67	LT/RT				40.9							
136+69.51	TO	136+78.68	LT/RT				40.9							
136+69.51	TO	139+91.02	LT/RT		650.2	321.5		67.4	80.9					
139+86.02	TO	139+91.02	LT/RT				14.4							
140+90.95	TO	141+00.12	LT/RT				40.9							
140+90.95	TO	142+21.99	LT/RT		330.4	131.0		34.3	41.1					
142+12.82	TO	142+21.99	LT/RT				116.3							
<b>PAY TOTAL :</b>				<b>12358</b>	<b>4487</b>	<b>1544</b>	<b>566</b>	<b>335</b>	<b>695</b>	<b>12358</b>	<b>206</b>	<b>27462</b>	<b>2781</b>	<b>3</b>

\* SEE SIDEROAD SCHEDULE FOR ADDITIONAL QUANTITY  
 \*\* SEE ENTRANCE SCHEDULE FOR ADDITIONAL QUANTITY

MODEL: D:\p\1\2013\11\0577E-Bismarck\_Road (P55E)\1\CADD - DWG\4.7\_Trim\CAD\_Sheets\05770B05-rls-Schedule.dgn  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE OF QUANTITIES</b>			
SCALE:	SHEET 10	OF 11 SHEETS	STA. TO STA.

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 36
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

**PAVEMENT MARKING SCHEDULE**

LOCATION					78000400	78000600	78001100	78001110		78001130	78001150	78001180	78011035	78011065	78300202
					THERMOPLASTIC PAVEMENT MARKING - LINE 6"	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	PAINT PAVEMENT MARKING LETTERS & SYMBOLS	PAINT PAVEMENT MARKING - LINE 4"		PAINT PAVEMENT MARKING - LINE 6"	PAINT PAVEMENT MARKING - LINE 12"	PAINT PAVEMENT MARKING - LINE 24"	GROOVING FOR RECESSED PAVEMENT MARKING 7"	GROOVING FOR RECESSED PAVEMENT MARKING 13"	PAVEMENT MARKING REMOVAL - WATER BLASTING
					WHITE	WHITE	WHITE	YELLOW	WHITE	WHITE	WHITE	WHITE			
STATION	TO	STATION	LOCATION	TYPE	FOOT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT
<b>BISMARCK ROAD</b>															
7+98.98 TO 27+28.62	CENTERLINE			DOUBLE				1267.6							
				SKIP - DASH				320.9							
				SOLID				49.5							
	EDGE LINE RT			SOLID					1942.6						
	EDGE LINE LT			SOLID					1969.9						
ISLAND MARKING			SOLID						133.1	74.5					
STOP BARS			SOLID								30.0				
28+75.83 TO 30+95.61	CENTERLINE			SOLID				219.8							
				SKIP - DASH				54.9							
	EDGE LINE RT			SOLID					219.8						
EDGE LINE LT			SOLID					141.2							
34+84.22 TO 136+60.67	CENTERLINE			DOUBLE				3155.5							
				SKIP - DASH				2149.7							
				SINGLE				2194.8							
	EDGE LINE RT			SOLID					9540.7						
	EDGE LINE LT			SOLID					9917.5						
	SCHOOL DROP OFF			SOLID							218.7				286
	CROSSWALK			SOLID	76.0	72.0							76.0	72.0	
STOP BAR			SOLID							13.0					
RAILROAD CROSSING						61.2					36.0				
136+69.51 TO 139+97.02	CENTERLINE			DOUBLE				538.0							
				SKIP - DASH				14.5							
	EDGE LINE RT			SOLID											
	EDGE LINE LT			SOLID											
RAILROAD CROSSING						61.2					36.0				
140+90.95 TO 142+06.00	CENTERLINE			SKIP - DASH				28.8							
	STOP BAR			SOLID							24.0				
<b>PAY TOTAL :</b>					<b>76</b>	<b>72</b>	<b>122</b>	<b>9994</b>	<b>23732</b>	<b>133</b>	<b>306</b>	<b>126</b>	<b>76</b>	<b>72</b>	<b>286</b>
								<b>33726</b>							

**RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE**

LOCATION				78100100	78300200
				RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
STATION	TO	STATION	LT / RT	EACH	EACH
<b>BISMARCK ROAD</b>					
7+98.98	TO	14+25.29	LT / RT	16	16
140+90.95	TO	142+21.99	LT / RT		2
<b>PAY TOTAL :</b>				<b>16</b>	<b>18</b>

MODEL: D:\p\1\180577E-Bismarck\_Road (P556)X.CADD - DWG\04.7\_Trim\CAD\_Sheets\0570B05-rhs-Schedule.dgn  
 FILE NAME: P:\2018\180577E-Bismarck\_Road (P556)X.CADD - DWG\04.7\_Trim\CAD\_Sheets\0570B05-rhs-Schedule.dgn



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 DATE - 12/2022  
 PLOT SCALE = 2,000' = 1" in.  
 PLOT DATE = 12/12/2022  
 LICENSE NO: 184-001220

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 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 11 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	37
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

CENTERLINE CONTROL POINTS							
PT#	NORTHING	EASTING	STATION	OFFSET	CODE	DESC.	TYPE TO SET
2	1311633.842	1174170.335	4+60.99	-2.25	PI	DISK	TYPE II
78	1311636.176	1174489.294	7+79.86	0	PI	MAG NAIL	TYPE II
4	1311637.893	1174723.996	10+13.99	-7.2	PI	DISK	TYPE II
100	1311610.256	1174840.970	11+33.61	0	PT	DISK	TYPE II
101	1311580.708	1174966.027	12+62.11	0	PC	DISK	TYPE II
7	1311561.816	1175045.987	13+44.23	1.71	PI	DISK	TYPE II
20	1311475.320	1175623.484	19+27.69	9.25	PI	IRON PIN	TYPE II
104	1311472.717	1175889.753	21+93.54	0	PT	MAG NAIL	TYPE II
105	1311457.276	1177468.955	37+72.82	0	PC	DRILL HOLE	TYPE II
106	1311373.510	1178011.546	43+23.73	0	PT	DRILL HOLE	TYPE II
107	1311177.260	1178653.764	49+95.26	0	PC	MAG NAIL	TYPE II
108	1311094.253	1179305.893	56+55.83	0	PT	MAG NAIL	TYPE II
81	1311177.645	1181228.001	75+79.51	-5.3	PI	MAG NAIL	TYPE II
123	1311128.147	1181796.181	81+49.62	0	PC	MAG NAIL	TYPE II
124	1311017.851	1182165.597	85+37.81	0	PT	MAG NAIL	TYPE II
125	1310888.323	1182406.469	88+11.30	0	PC	MAG NAIL	TYPE II
126	1310774.684	1182866.526	92+90.21	0	PT	MAG NAIL	TYPE II
84	1310780.353	1183492.197	99+15.89	1.3	PI	MAG NAIL	TYPE II
45	1310848.408	1185045.714	114+70.88	0	PI	DISK	TYPE II
49	1310905.829	1186351.575	127+78.01	0	PI	DISK	TYPE II
66	1310968.695	1187804.861	142+32.65	0	PI	VAULT	VAULT

SECTION CORNERS							
POINT	TYPE	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	SURVEY MARKER TYPE
60	QUARTER CORNER	1310961.638	1187656.021	140+83.65	0.17	MAG SPIKE	VAULT

BENCHMARKS						
POINT	NORTHING	EASTING	STATION	OFFSET	ELEVATION	DESCRIPTION
5094-01	1311663.116	1174512.444	8+03.21	-26.77	663.312	CHISELED SQUARE
5094-02	1311443.352	1177143.206	34+47.23	17.108	625.576	CHISELED SQUARE
5094-03	1311089.938	1179904.286	62+53.47	30.249	654.479	CHISELED SQUARE
5094-04	1310815.048	1184781.918	112+05.88	21.783	662.74	CHISELED SQUARE
5094-05	1310941.490	1187591.050	140+17.81	17.291	660.783	DISK IN WINGWALL

MODEL: D:\p\h\...  
 FILE NAME: P:\2018\11\05\77E-Benchmark\_Road (P556)X.CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-shc-ATR.dgn

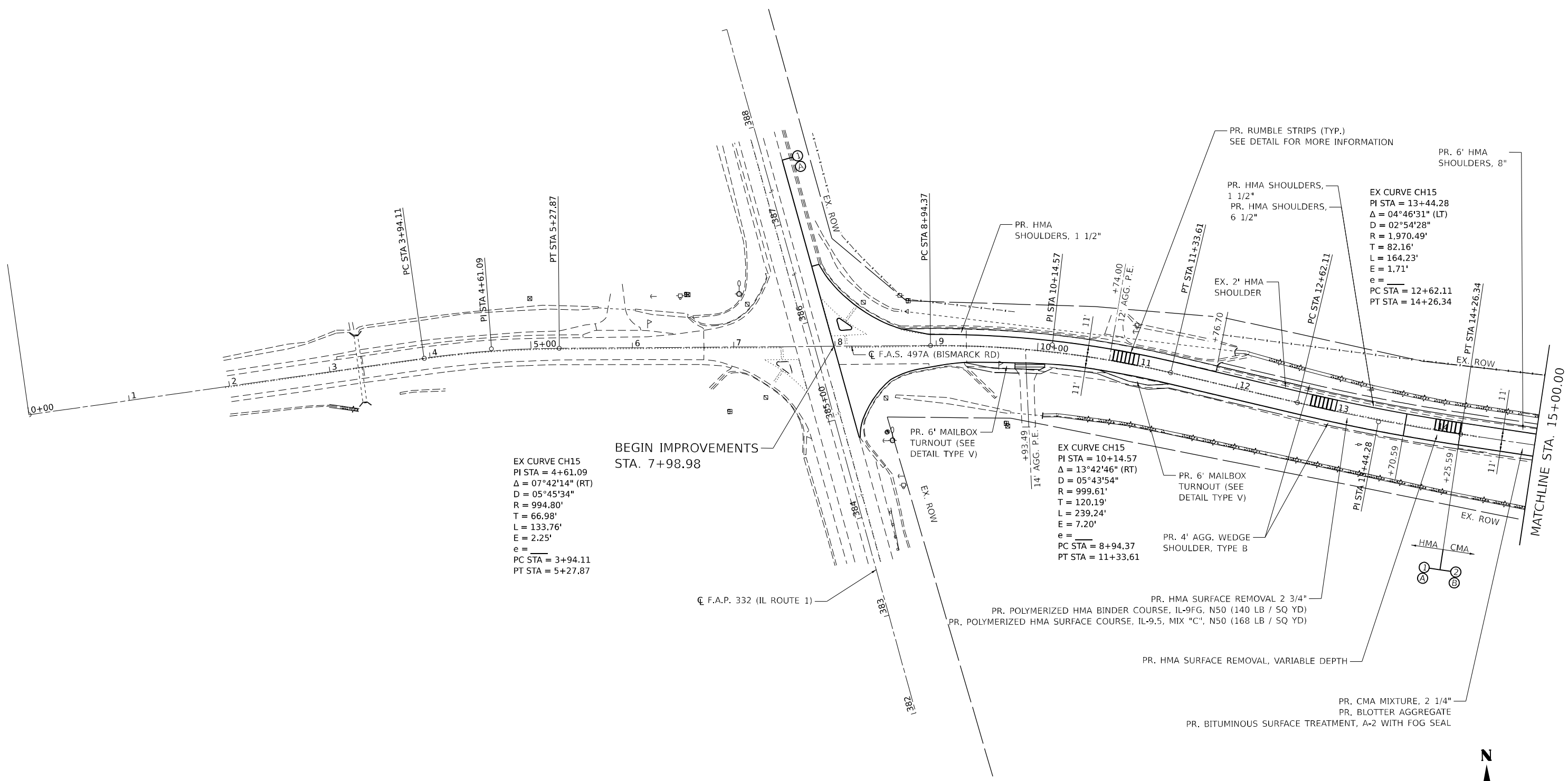


USER NAME = bbillhartz	DESIGNED - EKF	REVISED -
PLOT SCALE = 2,000' = 1 in.	DRAWN - BAB	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ALIGNMENT, TIES AND BENCHMARKS</b>			
SCALE: N.T.S.	SHEET 1	OF 1	SHEETS
STA.		TO STA.	

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 38
CONTRACT NO. 70B05				ILLINOIS FED. AID PROJECT



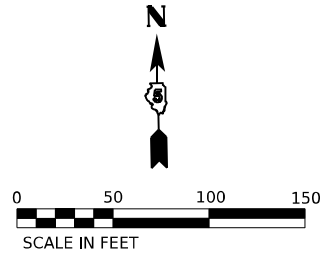
EX CURVE CH15  
PI STA = 4+61.09  
Δ = 07°42'14" (RT)  
D = 05°45'34"  
R = 994.80'  
T = 66.98'  
L = 133.76'  
E = 2.25'  
e =  
PC STA = 3+94.11  
PT STA = 5+27.87

BEGIN IMPROVEMENTS  
STA. 7+98.98

EX CURVE CH15  
PI STA = 10+14.57  
Δ = 13°42'46" (RT)  
D = 05°43'54"  
R = 999.61'  
T = 120.19'  
L = 239.24'  
E = 7.20'  
e =  
PC STA = 8+94.37  
PT STA = 11+33.61

EX CURVE CH15  
PI STA = 13+44.28  
Δ = 04°46'31" (LT)  
D = 02°54'28"  
R = 1,970.49'  
T = 82.16'  
L = 164.23'  
E = 1.71'  
e =  
PC STA = 12+62.11  
PT STA = 14+26.34

- PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT & INCIDENTAL HMA SURFACING
- DRIVEWAY PAVEMENT REMOVAL, AGGREGATE BASE COURSE, TYPE B 6", & INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL - SPECIAL & INCIDENTAL HMA SURFACING
- SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
- INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL, 1 1/2" & INCIDENTAL HMA SURFACING



MODEL: Plan 1  
FILE NAME: P:\2023\11\Bismarck\_Road (P556)\11\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-hic-plan\_50scale.dgn

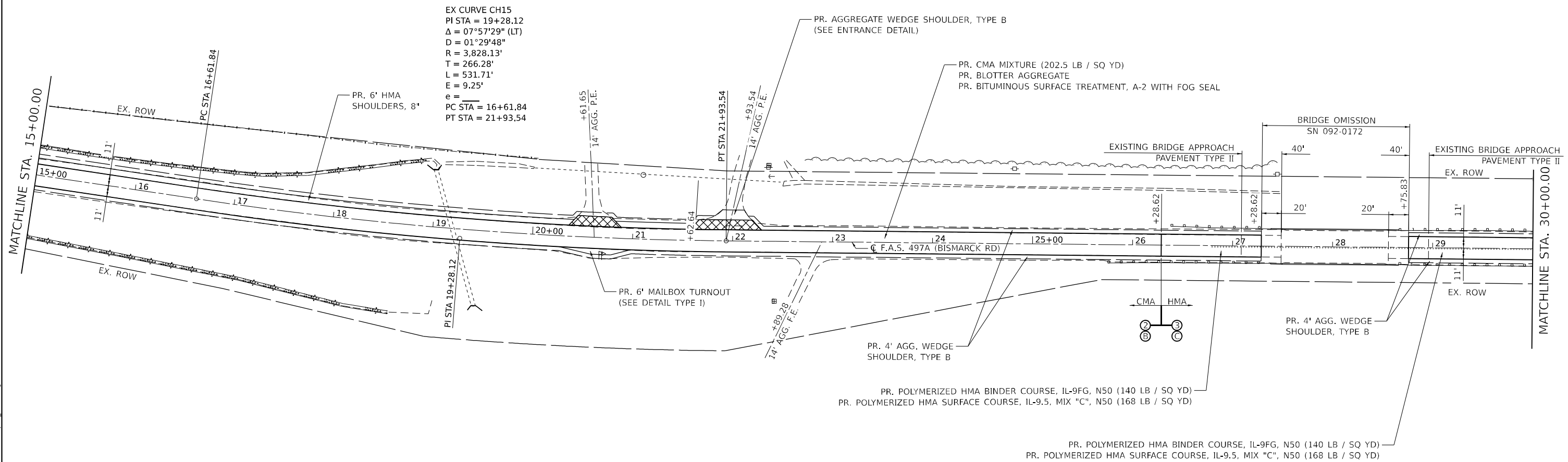


USER NAME = bbillhartz	DESIGNED - EKF	REVISED -
PLOT SCALE = 100.00000001' / in.	DRAWN - BAB	REVISED -
PLOT DATE = 12/12/2022	CHECKED - TBP	REVISED -
	DATE - 12/2022	REVISED -

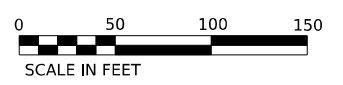
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PLAN BISMARCK ROAD</b>	
SCALE: 1"=50'	SHEET 1 OF 15 SHEETS
STA. 7+98.98	TO STA. 15+00.00

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 39
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	



- PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT & INCIDENTAL HMA SURFACING
- SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
- DRIVEWAY PAVEMENT REMOVAL, AGGREGATE BASE COURSE, TYPE B 6", & INCIDENTAL HMA SURFACING
- INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL - SPECIAL & INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL, 1 1/2" & INCIDENTAL HMA SURFACING



MODEL: Plan 2  
 FILE NAME: P:\2023\11\05\775-Bismarck\_Road\PS&E\1\4\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-shc-plan\_50xscale.dgn



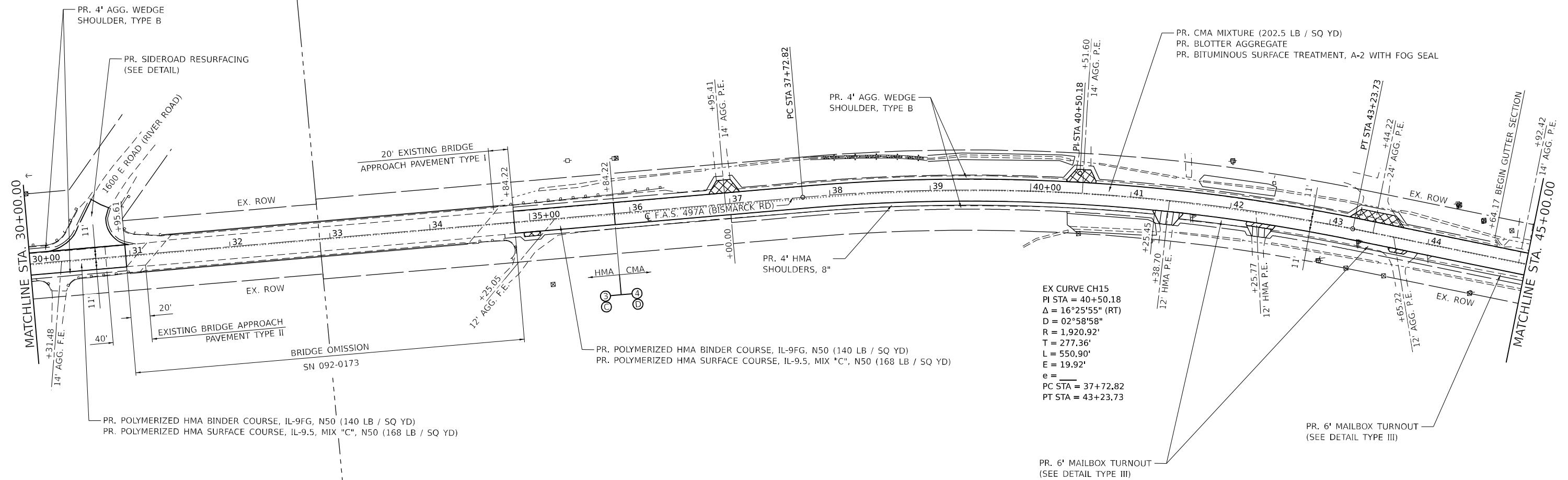
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DRAWN -	BAB	REVISOR -		REVISION -	
CHECKED -	TBP	DATE -	12/2022	REVISION -	
PLOT SCALE =	100.00000001' / in.				
PLOT DATE =	12/12/2022				

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PLAN BISMARCK ROAD</b>			
SCALE: 1"=50'	SHEET 2	OF 15 SHEETS	STA. 15+00.00 TO STA. 30+00.00

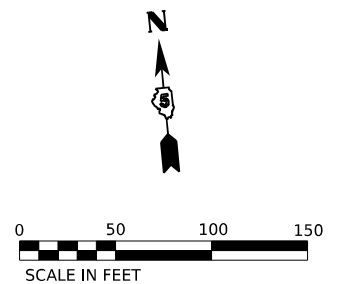
F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 40
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				





- PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT & INCIDENTAL HMA SURFACING
- DRIVEWAY PAVEMENT REMOVAL, AGGREGATE BASE COURSE, TYPE B 6", & INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL - SPECIAL & INCIDENTAL HMA SURFACING
- SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
- INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL, 1 1/2" & INCIDENTAL HMA SURFACING

FOR SIDEROAD IMPROVEMENTS - SEE DETAIL 408000AA MODIFIED



MODEL: Plan 3  
FILE NAME: P:\2023\11\180577\Bismarck\_Road\PS&E\1\4\_CADD - DWG\4.7\_Tran\CAD\_Sheets\02\70B05-shc.dwg\_50xscale.dgn



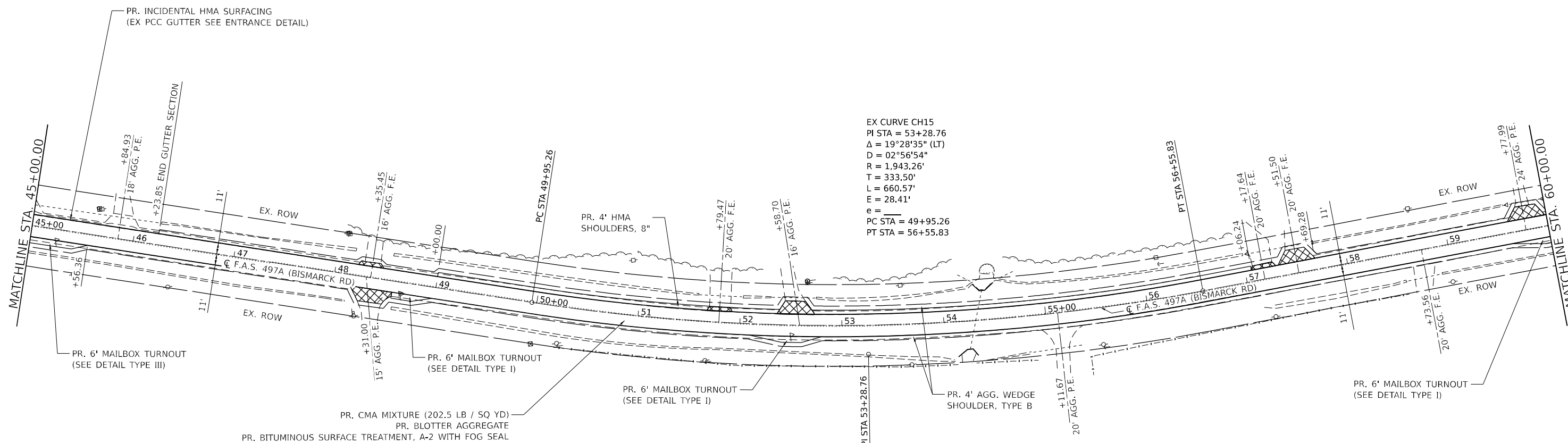
**TWM, INC.**  
www.twm-inc.com  
IL DESIGN FIRM  
LICENSE NO: 184-001220

USER NAME =	bbillhartz	DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	CHECKED -	TBP	REVISED -	
PLOT SCALE =	99.999980000" / in.	DATE -	12/2022	REVISED -	
PLOT DATE =	12/12/2022				

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PLAN BISMARCK ROAD</b>	
SCALE: 1"=50'	SHEET 3 OF 15 SHEETS
STA. 30+00.00	TO STA. 45+00.00

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 41
			CONTRACT NO. 70B05	
ILLINOIS FED. AID PROJECT				



EX CURVE CH15  
 PI STA = 53+28.76  
 $\Delta = 19^\circ 28' 35''$  (LT)  
 $D = 02^\circ 56' 54''$   
 $R = 1,943.26'$   
 $T = 333.50'$   
 $L = 660.57'$   
 $E = 28.41'$   
 $e =$   
 PC STA = 49+95.26  
 PT STA = 56+55.83

- PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT & INCIDENTAL HMA SURFACING
- DRIVEWAY PAVEMENT REMOVAL, AGGREGATE BASE COURSE, TYPE B 6", & INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL - SPECIAL & INCIDENTAL HMA SURFACING
- SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
- INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL, 1 1/2" & INCIDENTAL HMA SURFACING



MODEL: Plan 4  
 FILE NAME: P:\2018\180577E-Bismarck\_Road (P55E)1\4\_CADD - DWG\4.7\_Tran\CAD\_Sheets\02\70B05-shc.dwg\_50xscale.dgn



**TWM, INC.**  
 WWW.TWM-INC.COM  
 IL DESIGN FIRM  
 LICENSE NO: 184-001220

USER NAME = bbillhartz  
 DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

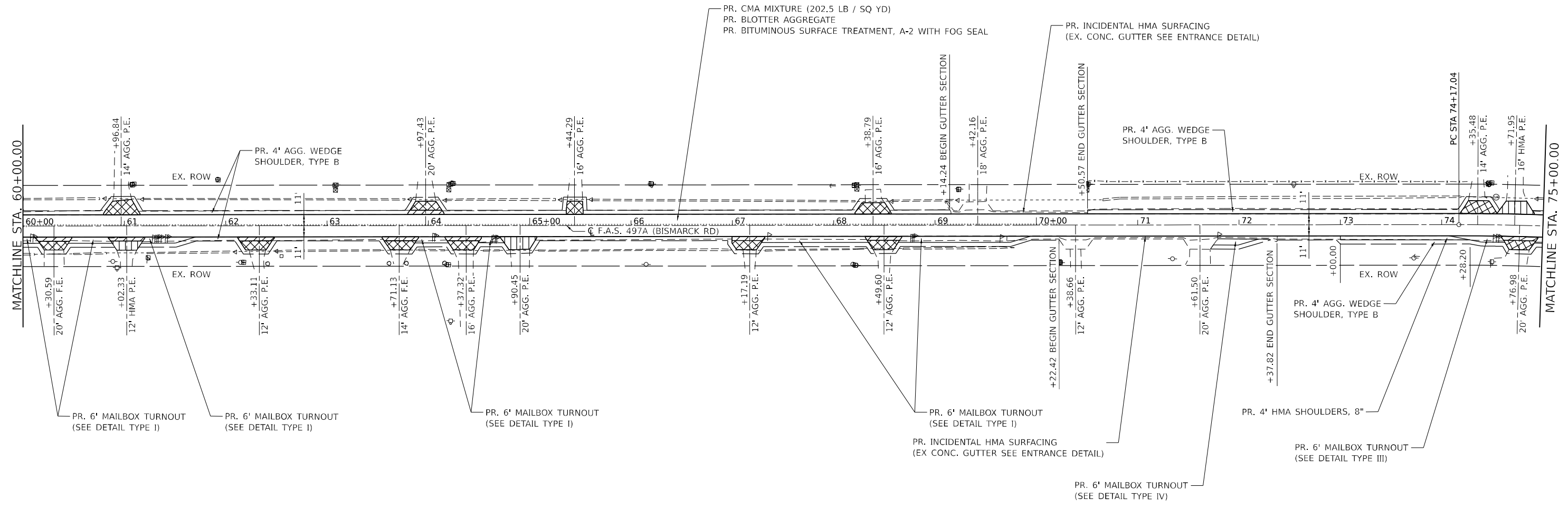
REVISED -  
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 REVISED -  
 REVISED -







**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

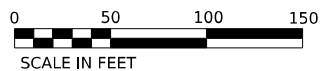
**PLAN  
 BISMARCK ROAD**

SCALE: 1"=50' SHEET 4 OF 15 SHEETS STA. 45+00.00 TO STA. 60+00.00

F.A.S. RTE. 497A	SECTION KRS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 42
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



-  PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT & INCIDENTAL HMA SURFACING
-  DRIVEWAY PAVEMENT REMOVAL, AGGREGATE BASE COURSE, TYPE B 6", & INCIDENTAL HMA SURFACING
-  HMA SURFACE REMOVAL - SPECIAL & INCIDENTAL HMA SURFACING
-  SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
-  INCIDENTAL HMA SURFACING
-  HMA SURFACE REMOVAL, 1 1/2" & INCIDENTAL HMA SURFACING



MODEL: Plan 5  
FILE NAME: P:\2023\11\05\77E-Bismarck\_Road (P55E)1\4\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-shd-bm\_50ps.dwg



USER NAME	= bblithartz	DESIGNED	- EKF	REVISED	-
DRAWN	- BAB	REVISIONS	-		
PLOT SCALE	= 99.999800000 ' / in.	CHECKED	- TBP	REVISED	-
PLOT DATE	= 12/12/2022	DATE	- 12/2022	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN  
BISMARCK ROAD

SCALE: 1"=50' SHEET 5 OF 15 SHEETS STA. 60+00.00 TO STA. 75+00.00

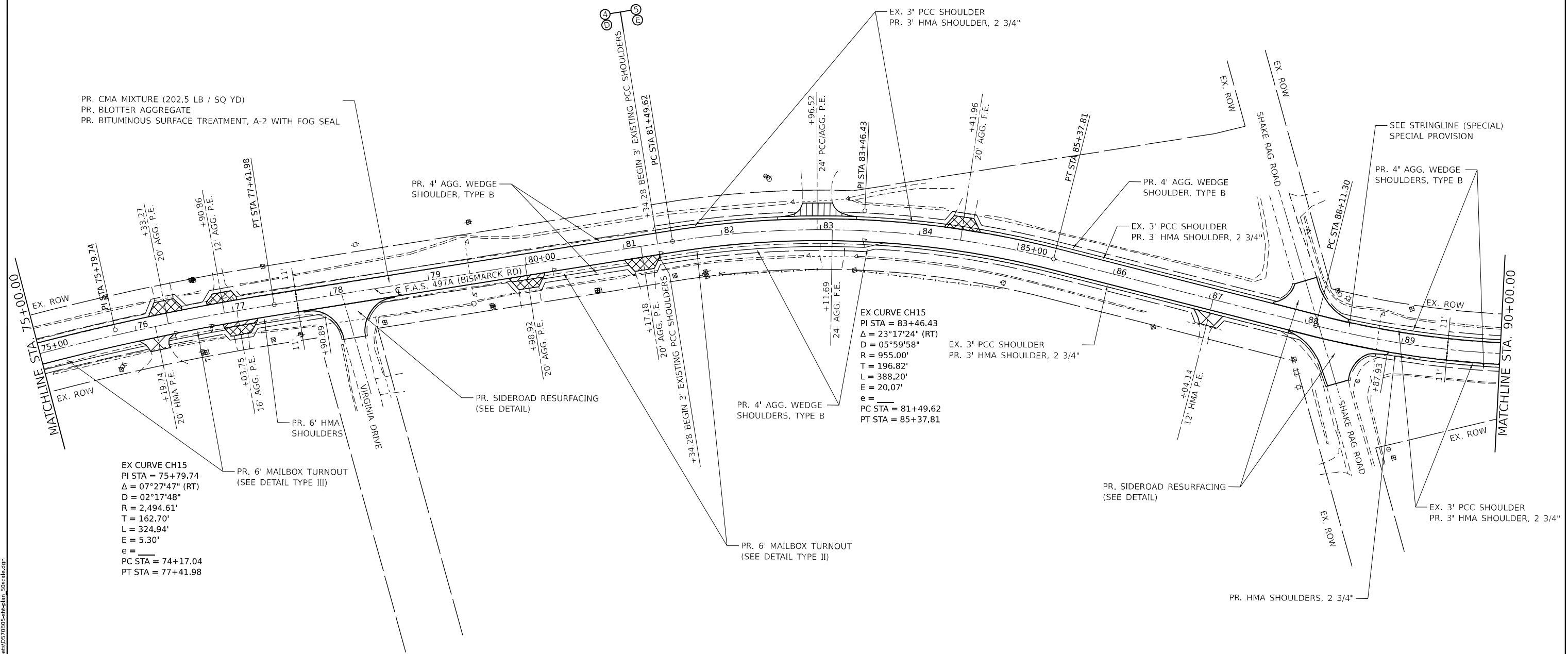
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	43
CONTRACT NO. 70B05				

ILLINOIS FED. AID PROJECT

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.

SEC 19, T 21N, R 11W, 2ND PM

SEC 20, T 21N, R 11W, 2ND PM



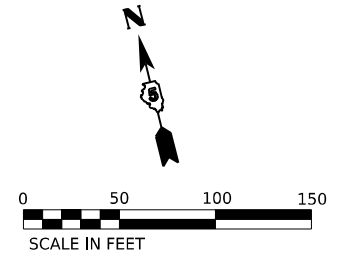
PR. CMA MIXTURE (202.5 LB / SQ YD)  
PR. BLOTTER AGGREGATE  
PR. BITUMINOUS SURFACE TREATMENT, A-2 WITH FOG SEAL

EX CURVE CH15  
 PI STA = 75+79.74  
 $\Delta = 07^{\circ}27'47''$  (RT)  
 D = 02°17'48"  
 R = 2,494.61'  
 T = 162.70'  
 L = 324.94'  
 E = 5.30'  
 e =  
 PC STA = 74+17.04  
 PT STA = 77+41.98

EX CURVE CH15  
 PI STA = 83+46.43  
 $\Delta = 23^{\circ}17'24''$  (RT)  
 D = 05°59'58"  
 R = 955.00'  
 T = 196.82'  
 L = 388.20'  
 E = 20.07'  
 e =  
 PC STA = 81+49.62  
 PT STA = 85+37.81

- PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT & INCIDENTAL HMA SURFACING
- SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
- DRIVEWAY PAVEMENT REMOVAL, AGGREGATE BASE COURSE, TYPE B 6", & INCIDENTAL HMA SURFACING
- INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL - SPECIAL & INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL, 1 1/2" & INCIDENTAL HMA SURFACING

FOR SIDEROAD IMPROVEMENTS - SEE DETAIL 408000AA MODIFIED



MODEL: Plan 6  
FILE NAME: P:\2023\180577\Bismarck\_Road\PS&E\1\4\_CADD-DWG\4.7\_Trim\CAD\_Sheets\0570B05-shc.dwg\_50xscale.dgn



**TWM, INC.**  
 www.twm-inc.com  
 ILL. DESIGN FIRM  
 LICENSE NO: 184-001220

USER NAME = bbillhartz  
 DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

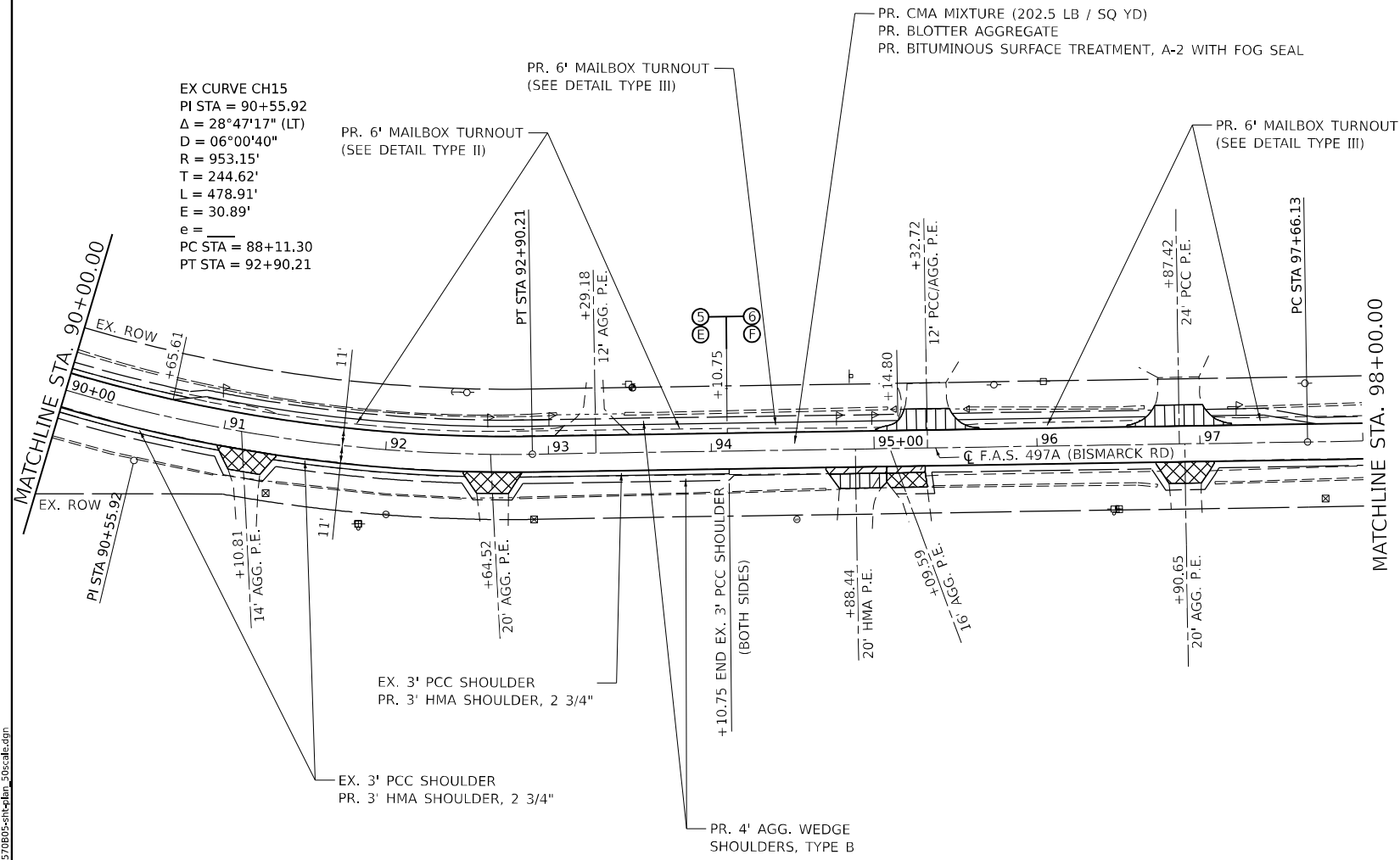
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN  
BISMARCK ROAD

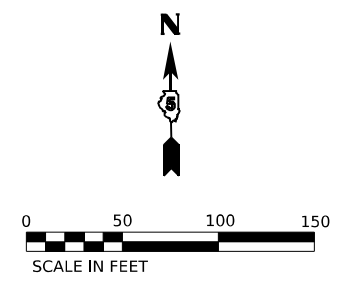
SCALE: 1"=50' SHEET 6 OF 15 SHEETS STA. 75+00.00 TO STA. 90+00.00

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 44
			CONTRACT NO. 70B05	
ILLINOIS FED. AID PROJECT				



EX CURVE CH15  
 PI STA = 90+55.92  
 $\Delta = 28^{\circ}47'17''$  (LT)  
 $D = 06^{\circ}00'40''$   
 $R = 953.15'$   
 $T = 244.62'$   
 $L = 478.91'$   
 $E = 30.89'$   
 $e =$   
 PC STA = 88+11.30  
 PT STA = 92+90.21

- PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT & INCIDENTAL HMA SURFACING
- DRIVEWAY PAVEMENT REMOVAL, AGGREGATE BASE COURSE, TYPE B 6", & INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL - SPECIAL & INCIDENTAL HMA SURFACING
- SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
- INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL, 1 1/2" & INCIDENTAL HMA SURFACING



MODEL: Plan 7  
 FILE NAME: P:\2018\180577E-Bismarck\_Road (P55E)14.CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-shd-bm\_50xscale.dgn

**TWM**  
 ENGINEERING  
 GEOSPATIAL SERVICES

**TWM, INC.**  
 www.twm-inc.com  
 IL DESIGN FIRM  
 LICENSE NO:  
 184-001220

USER NAME =	bbillhartz	DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	REVISOR -		REVISOR -	
PLOT SCALE =	99.999800000 ' / in.	CHECKED -	TBP	REVISOR -	
PLOT DATE =	12/12/2022	DATE -	12/2022	REVISOR -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PLAN BISMARCK ROAD</b>	
SCALE: 1"=50'	SHEET 7 OF 15 SHEETS
STA. 90+00.00	TO STA. 98+00.00

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 45
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

SEC 20, T 21N, R 11W, 2ND PM

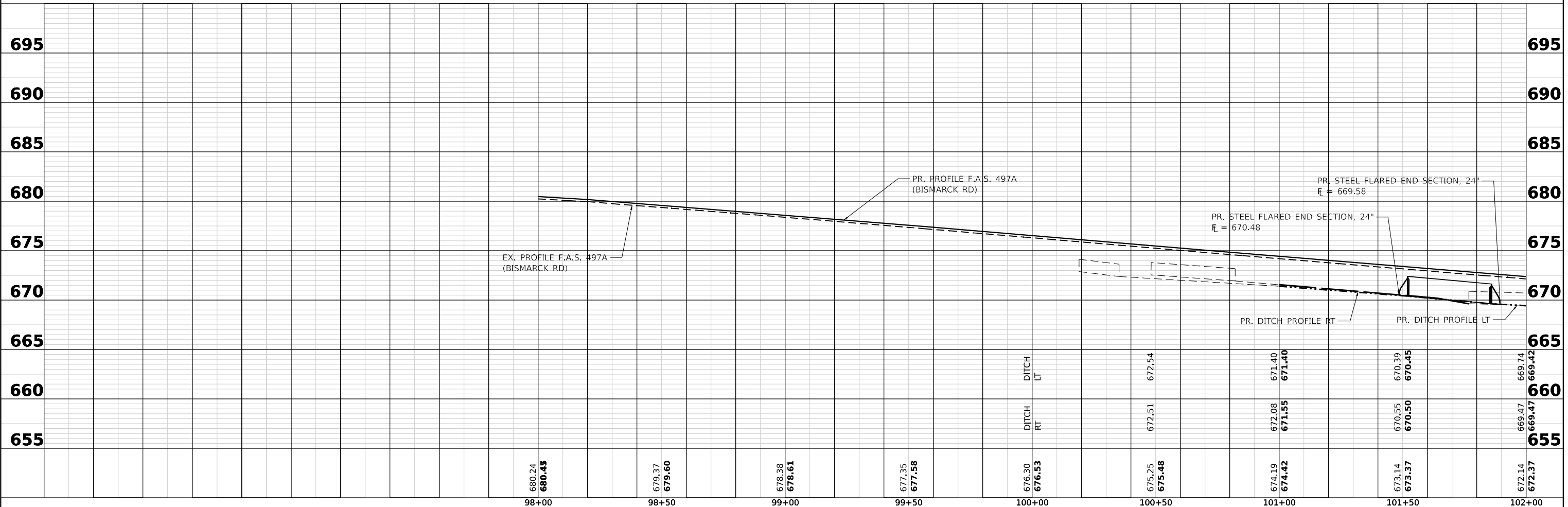
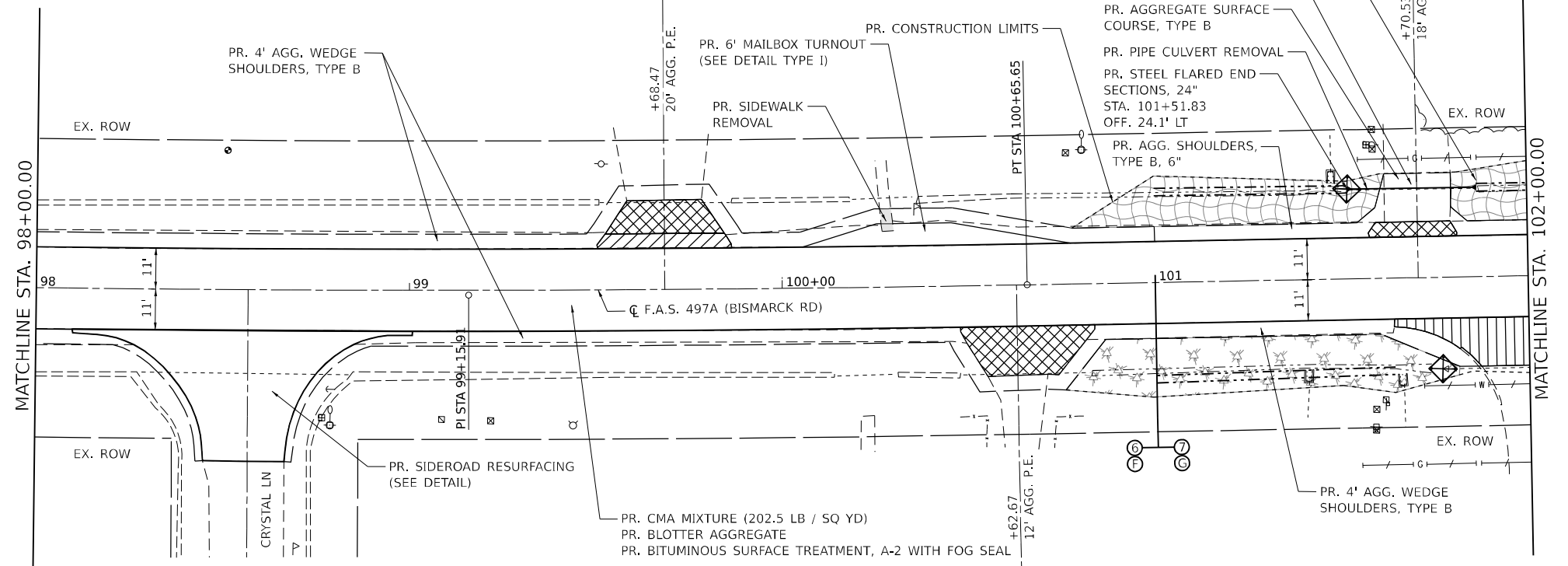
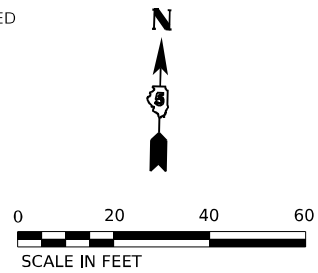
RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.

**EROSION CONTROL LEGEND**

- SEEDING, CLASS 2A & MULCH, METHOD 2
- SEEDING, CLASS 2A & HEAVY DUTY EROSION CONTROL BLANKET
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION

- PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT & INCIDENTAL HMA SURFACING
- DRIVEWAY PAVEMENT REMOVAL, AGGREGATE BASE COURSE, TYPE B 6", & INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL - SPECIAL & INCIDENTAL HMA SURFACING
- SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
- INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL, 1 1/2" & INCIDENTAL HMA SURFACING

FOR SIDEROAD IMPROVEMENTS - SEE DETAIL 408000AA MODIFIED



DATE	
BY	
PLAN	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
PROFILE	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

MODEL: CH15 - Plan 17 (Sheet)  
FILE NAME: P:\2023\11805771\Bismarck\_Road (P565) (4 CAD) - DWG\4.7 Tam\CAD\_Sheets\070B05-shp-cad\prf\_23s-cad.dgn

**TWM, INC.**  
ENGINEERING  
GEOSPATIAL SERVICES  
WWW.TWM-INC.COM  
IL DESIGN FIRM LICENSE NO: 184-001220

USER NAME =	bbillhartz
PLOT SCALE =	39.99992000" / in.
PLOT DATE =	12/12/2022

DESIGNED -	EKF
DRAWN -	BAB
CHECKED -	TBP
DATE -	12/2022

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
BISMARCK ROAD

SCALE: 1"=20' SHEET 8 OF 15 SHEETS STA. 98+00.00 TO STA. 102+00.00

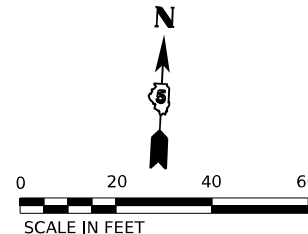
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	KRS-2)	VERMILION	111	46
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

SEC 20, T 21N, R 11W, 2ND PM

**EROSION CONTROL LEGEND**

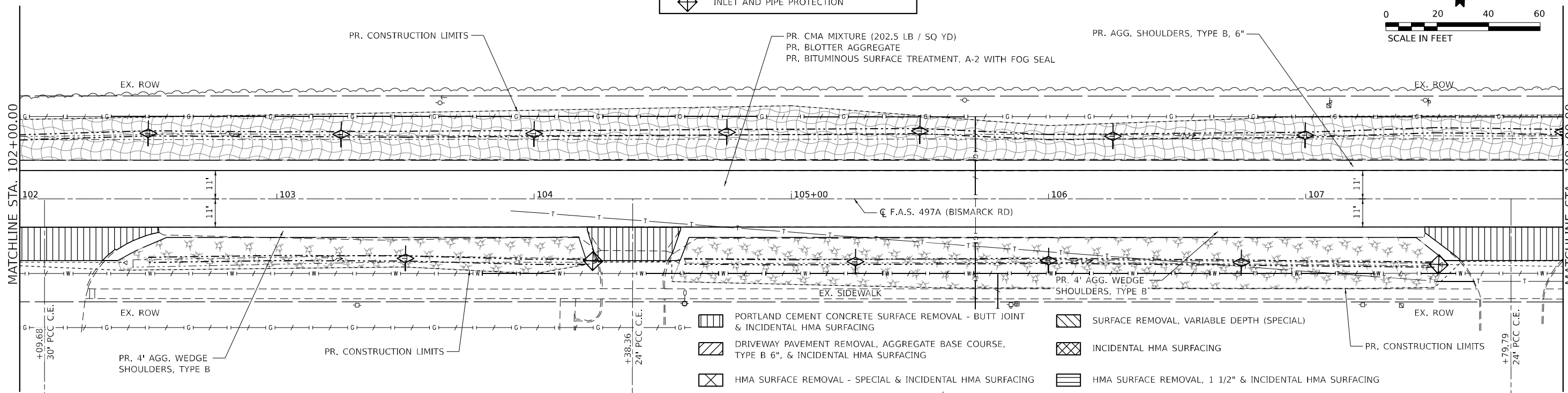
- SEEDING, CLASS 2A & MULCH, METHOD 2
- SEEDING, CLASS 2A & HEAVY DUTY EROSION CONTROL BLANKET
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.

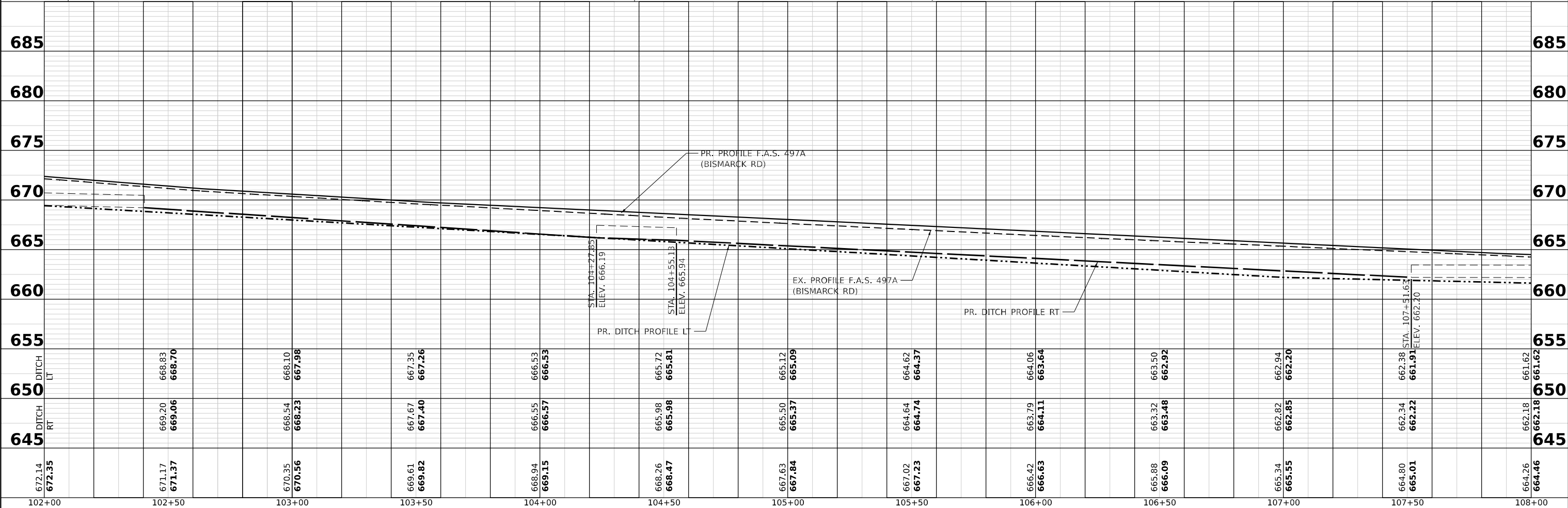


PLAN	DATE
SURVEYED PLOTTED ALIGNMENT CHECKED STRUCTURE NOTATIONS CHKD NO.	BY
NOTE BOOK	DATE
NO.	BY

PROFILE	DATE
SURVEYED PLOTTED GRADES CHECKED STRUCTURE NOTATIONS CHKD NO.	BY
NOTE BOOK	DATE
NO.	BY



- PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT & INCIDENTAL HMA SURFACING
- DRIVEWAY PAVEMENT REMOVAL, AGGREGATE BASE COURSE, TYPE B 6", & INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL - SPECIAL & INCIDENTAL HMA SURFACING
- SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
- INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL, 1 1/2" & INCIDENTAL HMA SURFACING



MODEL: CH15 - Min: 18 (Sheet)  
FILE NAME: P:\2021\1805718-Bismarck\_Road\PS&B\A\_CADD - DWG\A-7\_TamCAD\_Sheets\070B05-sht-9.dwg 2/25/2022

	<b>TWM, INC.</b> www.twm-inc.com	USER NAME = bbilthartz	DESIGNED - EKF
<b>ENGINEERING</b>	IL DESIGN FIRM LICENSE NO: 184-001220	PLOT SCALE = 39.99992000' / in.	DRAWN - BAB
<b>GEOSPATIAL SERVICES</b>		PLOT DATE = 12/12/2022	CHECKED - TBP
			DATE - 12/2022

REVISED -	REVISED -
REVISED -	REVISED -
REVISED -	REVISED -
REVISED -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE  
BISMARCK ROAD**

SCALE: 1"=20'      SHEET 9      OF 15 SHEETS      STA. 102+00.00      TO STA. 108+00.00

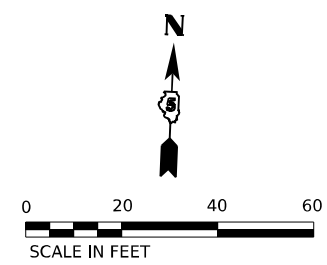
F.A.S. RTE. 497A	SECTION KRS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 47
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

SEC 20, T 21N, R 11W, 2ND PM

- PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT & INCIDENTAL HMA SURFACING
- DRIVEWAY PAVEMENT REMOVAL, AGGREGATE BASE COURSE, TYPE B 6", & INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL - SPECIAL & INCIDENTAL HMA SURFACING
- SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
- INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL, 1 1/2" & INCIDENTAL HMA SURFACING

- EROSION CONTROL LEGEND**
- SEEDING, CLASS 2A & MULCH, METHOD 2
  - SEEDING, CLASS 2A & HEAVY DUTY EROSION CONTROL BLANKET
  - TEMPORARY DITCH CHECKS
  - INLET AND PIPE PROTECTION

RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.

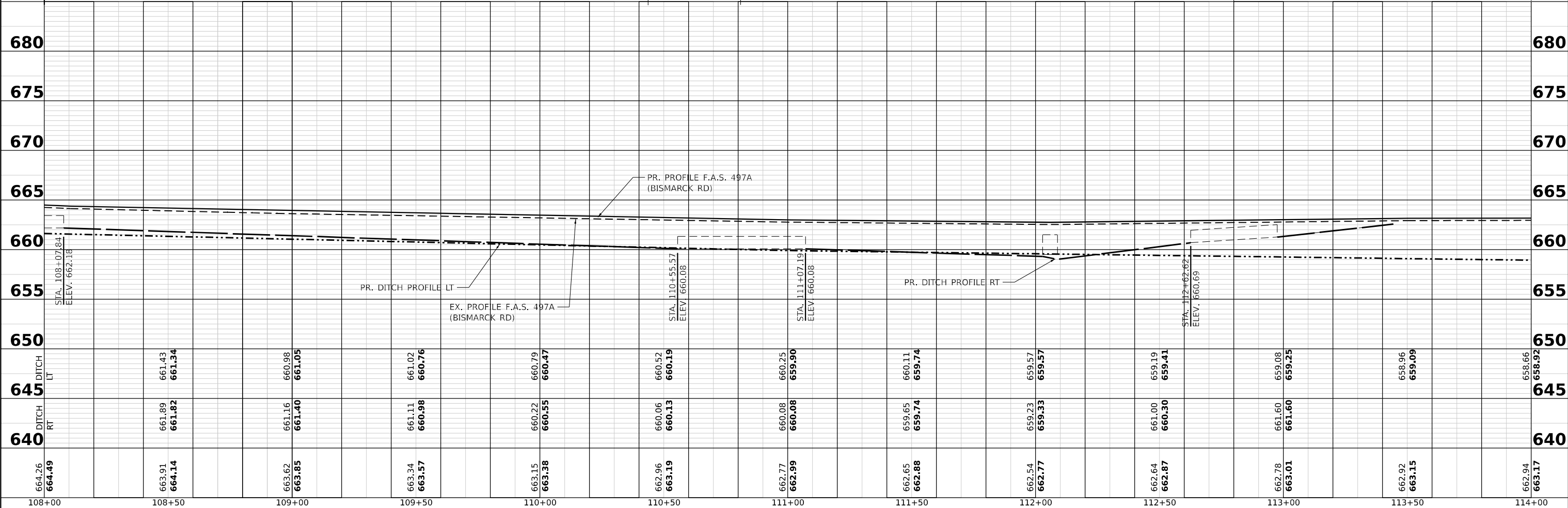
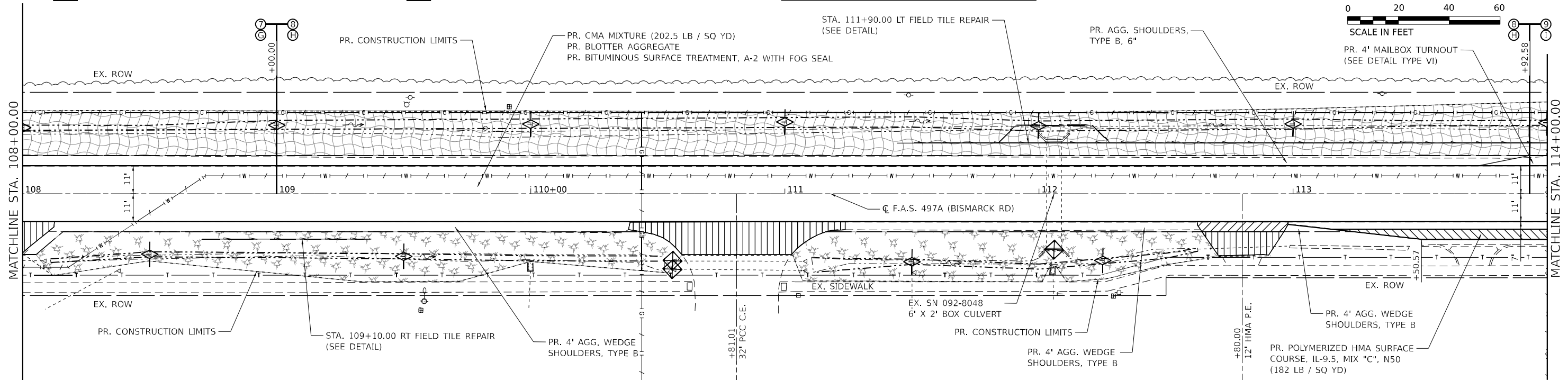


**PLAN**

SURVEYED	DATE
PLOTTED	BY
GRADES CHECKED	
ALIGNMENT CHECKED	
STRUCTURE NOTATIONS CHKD	
CADD FILE NAME	
NO.	
NOTE BOOK	

**PROFILE**

SURVEYED	DATE
PLOTTED	BY
GRADES CHECKED	
ALIGNMENT CHECKED	
STRUCTURE NOTATIONS CHKD	
CADD FILE NAME	
NO.	
NOTE BOOK	



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108+00	108+50	109+00	109+50	110+00	110+50	111+00	111+50	112+00	112+50	113+00	113+50	114+00

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ENGINEERING  
GEOSPATIAL SERVICES

TWM, INC.  
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ILLINOIS DESIGN FIRM  
LICENSE NO.: 184-001220

USER NAME = bbillhartz	DESIGNED - EKF	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 39.99992000" / in.	CHECKED - TBP	REVISED -
PLOT DATE = 12/12/2022	DATE - 12/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE  
BISMARCK ROAD**

SCALE: SHEET 10 OF 15 SHEETS STA. 108+00.00 TO STA. 114+00.00

F.A.S. RTE. 497A	SECTION KRS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 48
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

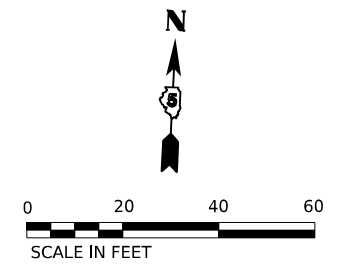


SEC 20, T 21N, R 11W, 2ND PM

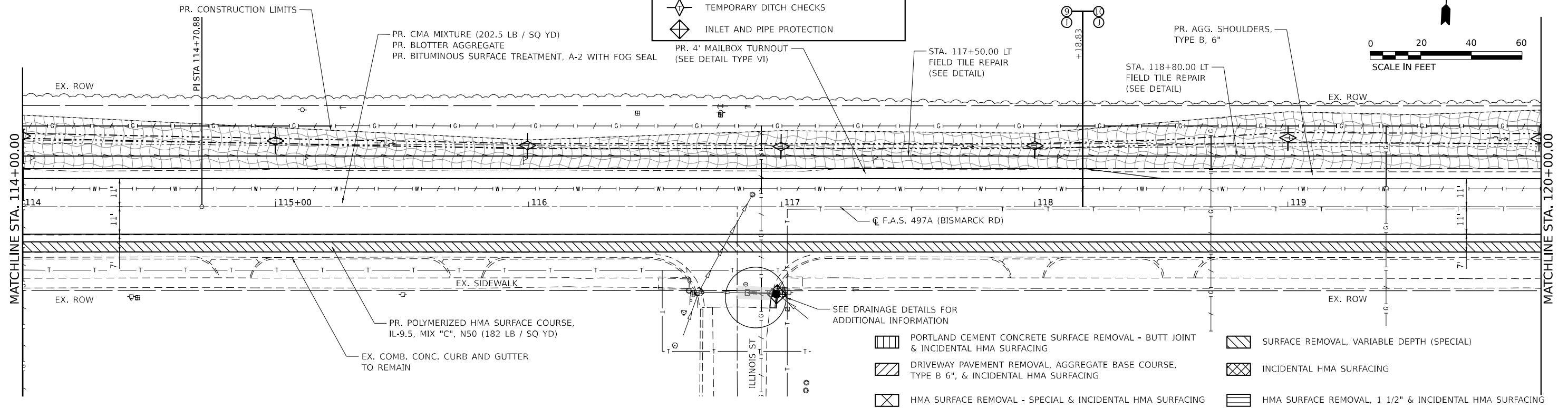
EROSION CONTROL LEGEND

- SEEDING, CLASS 2A & MULCH, METHOD 2
- SEEDING, CLASS 2A & HEAVY DUTY EROSION CONTROL BLANKET
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION

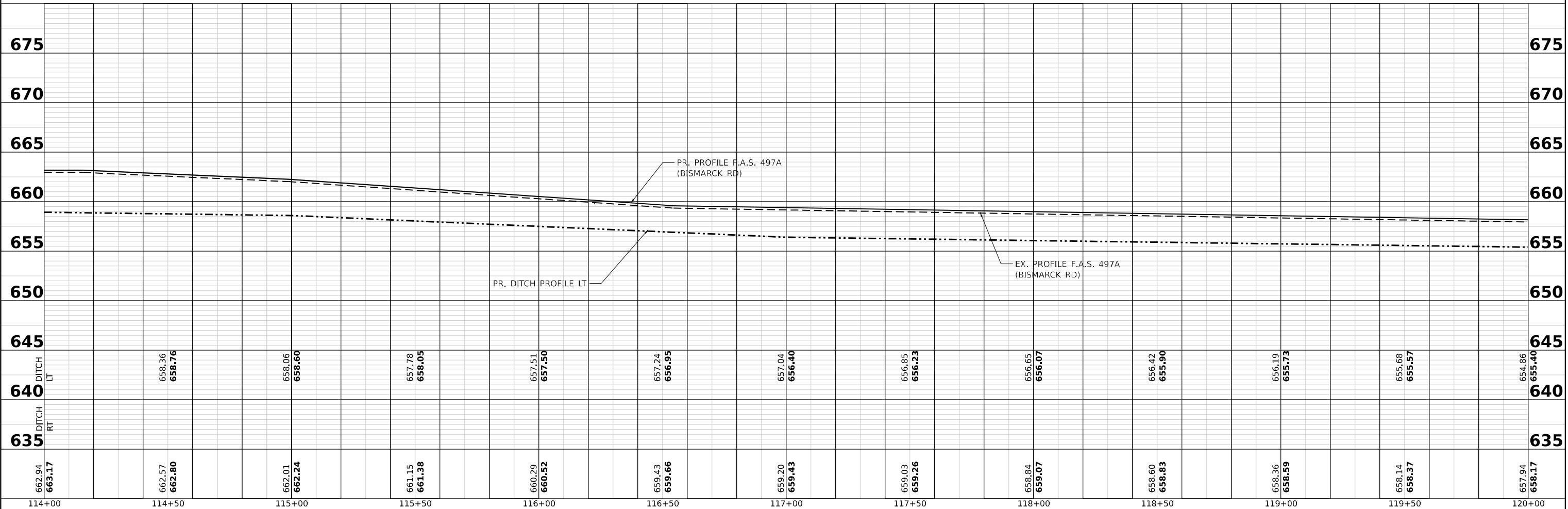
RIGHT OF WAY BASED OFF AS-BUILTS.  
ACTUAL LIMITS MAY VARY.



DATE	
BY	
PLAN	
NO.	
NO.	
NO.	
NO.	
NO.	



DATE	
BY	
PROFILE	
NO.	
NO.	
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NO.	
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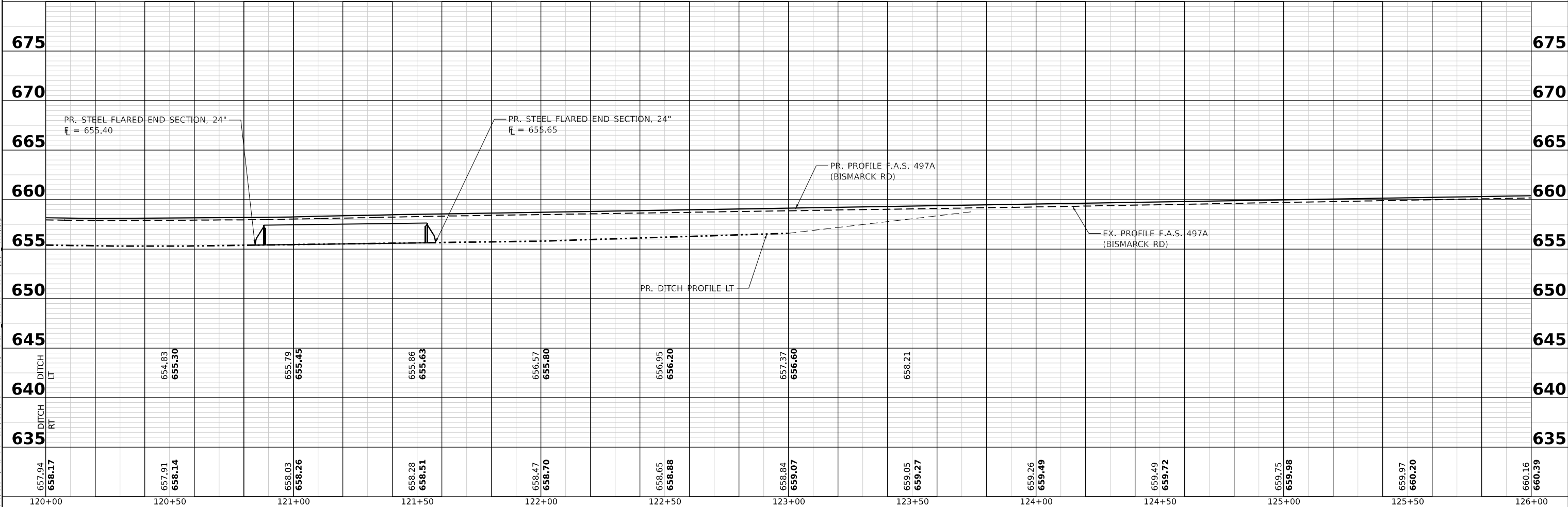
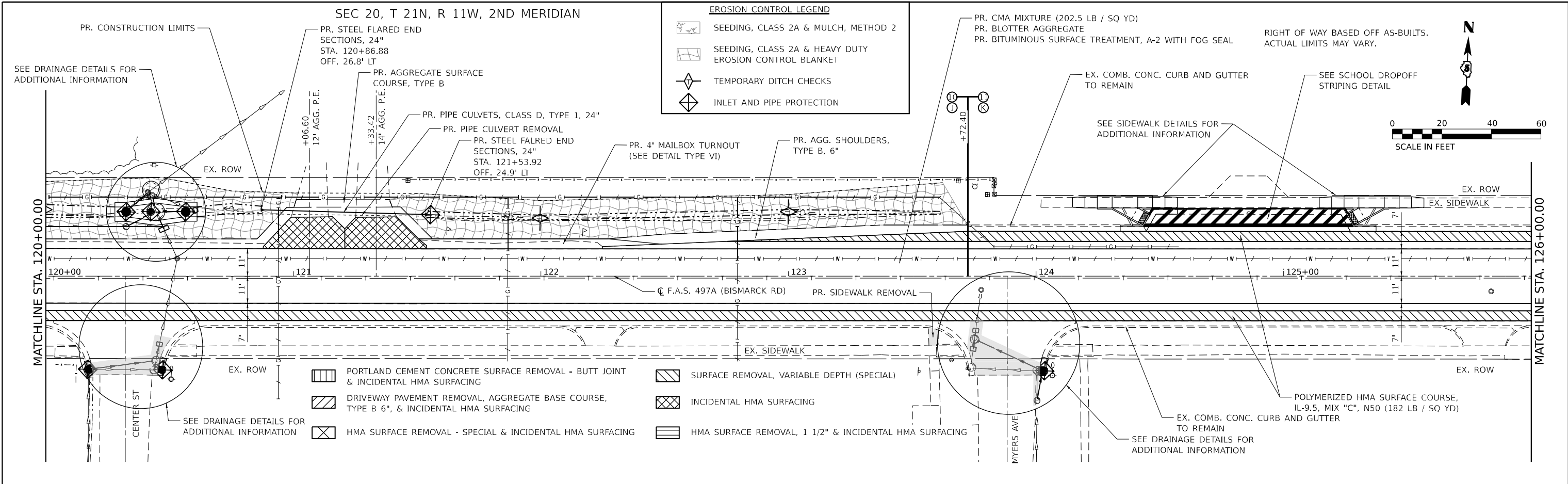
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	USER NAME = bbillhartz DESIGNED - EKF DRAWN - BAB CHECKED - TBP DATE - 12/2022	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE BISMARCK ROAD	SCALE: 1"=20' SHEET 11 OF 15 SHEETS STA. 114+00.00 TO STA. 120+00.00	F.A.S. RTE. 497A SECTION KRS-2 COUNTY VERMILION CONTRACT NO. 70B05	TOTAL SHEETS 111 SHEET NO. 49
	ILLINOIS FED. AID PROJECT						

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NO. _____	
	NO. _____	
	NO. _____	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO. _____	
	NO. _____	
	NO. _____	

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120+00	120+50	121+00	121+50	122+00	122+50	123+00	123+50	124+00	124+50	125+00	125+50	126+00

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PLOT SCALE = 39.99992000' / in.	DRAWN - BAB	REVISED -
PLOT DATE = 12/12/2022	CHECKED - TBP	REVISED -
	DATE - 12/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

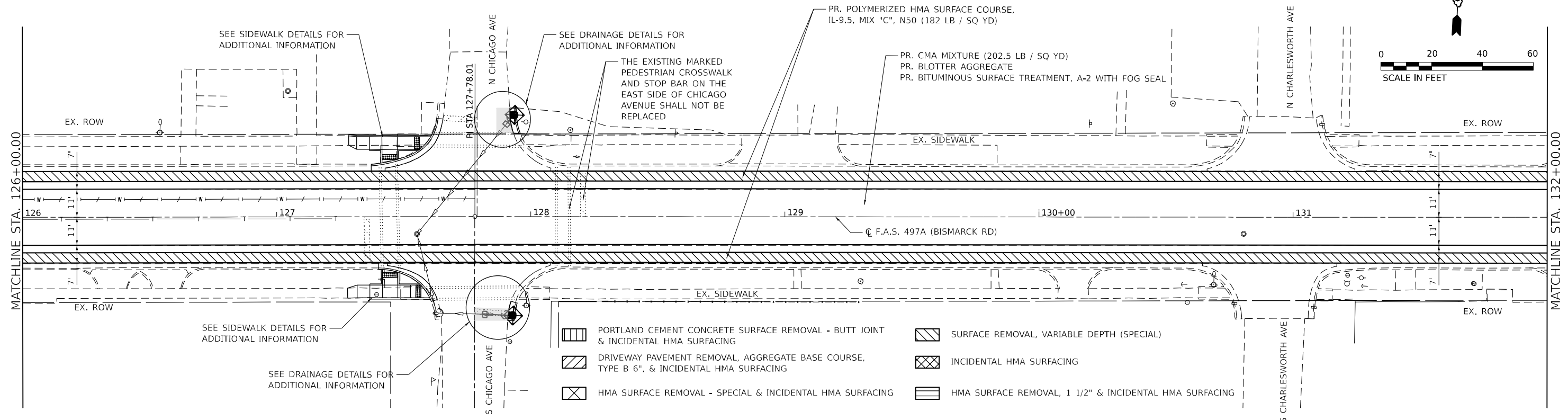
**PLAN AND PROFILE  
 BISMARCK ROAD**

SCALE: 1"=20'    SHEET 12 OF 15 SHEETS    STA. 120+00.00 TO STA. 126+00.00

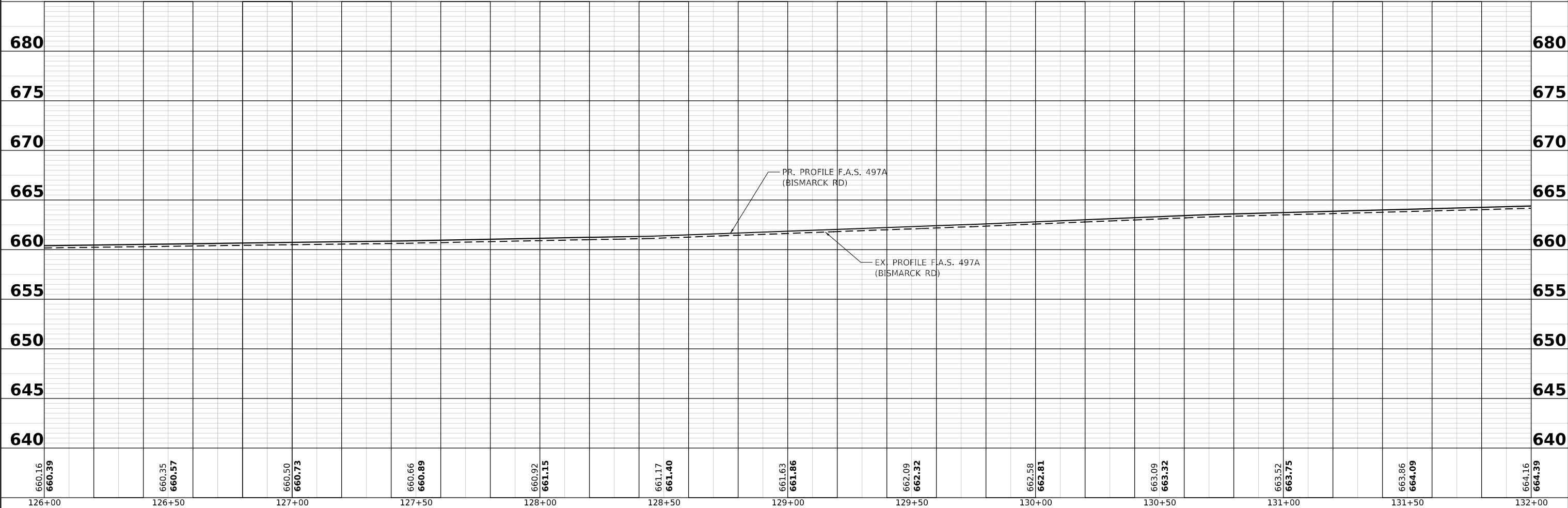
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CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	



PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHKD	
	CADD FILE NAME	
	NO.	



PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
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126+00	126+50	127+00	127+50	128+00	128+50	129+00	129+50	130+00	130+50	131+00	131+50	132+00

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USER NAME =	bbillthartz	DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	REVISOR -		REVISION -	
CHECKED -	TBP	DATE -	12/2022	REVISION -	
PLOT SCALE =	39.99992000" / in.				
PLOT DATE =	12/12/2022				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

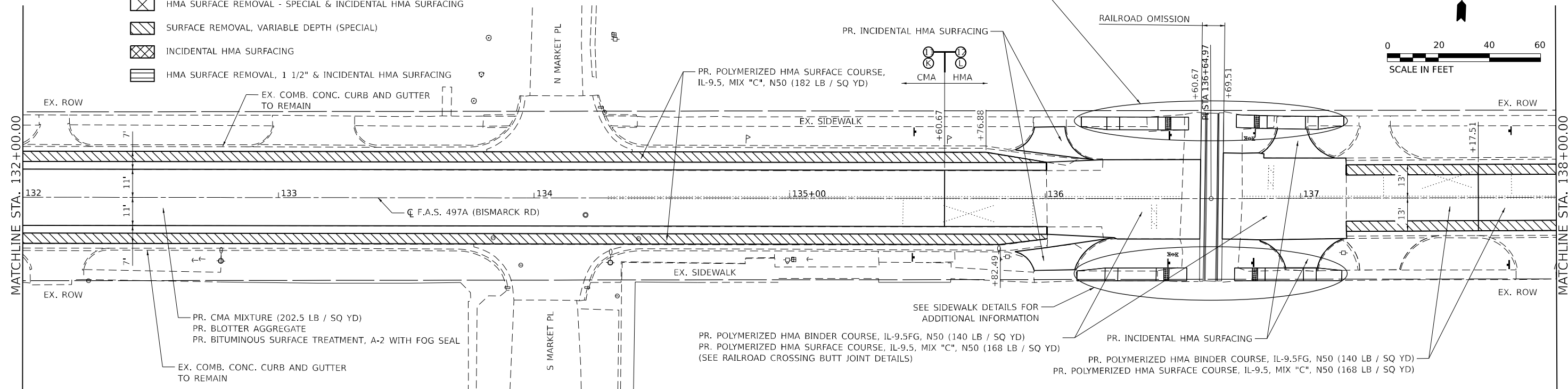
PLAN AND PROFILE  
BISMARCK ROAD

SCALE: 1"=20' SHEET 13 OF 15 SHEETS STA. 126+00.00 TO STA. 132+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	KRS-2)	VERMILION	111	51
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

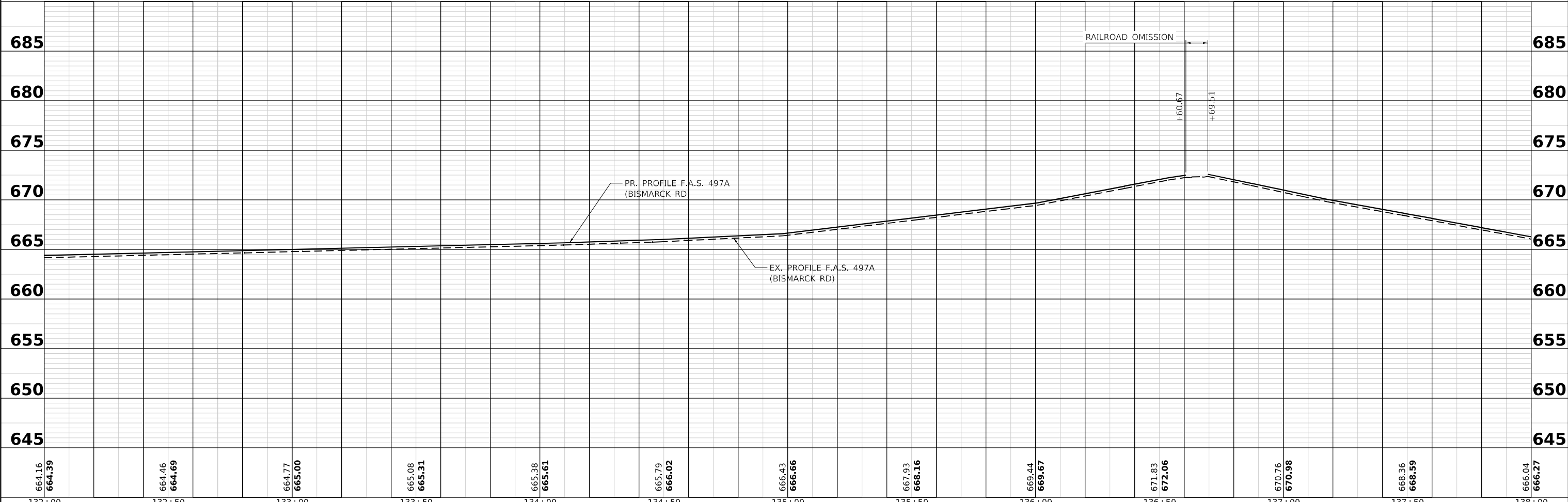


- PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT & INCIDENTAL HMA SURFACING
- DRIVEWAY PAVEMENT REMOVAL, AGGREGATE BASE COURSE, TYPE B 6", & INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL - SPECIAL & INCIDENTAL HMA SURFACING
- SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
- INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL, 1 1/2" & INCIDENTAL HMA SURFACING



DATE	
BY	
PLAN	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
PROFILE	
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NO.	



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132+00	132+50	133+00	133+50	134+00	134+50	135+00	135+50	136+00	136+50	137+00	137+50	138+00														

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USER NAME =	bbillthartz	DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	REVISOR -		REVISOR -	
CHECKED -	TBP	DATE -	12/2022	REVISOR -	
DATE -	12/2022				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20'	SHEET 14	OF 15 SHEETS	STA. 132+00.00	TO STA. 138+00.00
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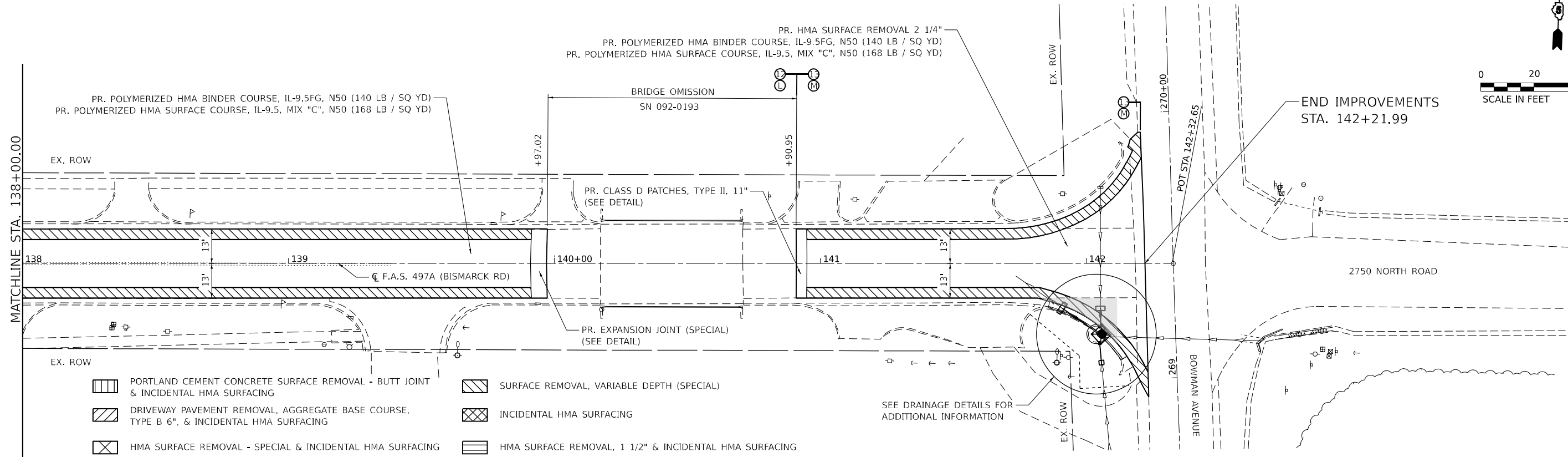
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	52
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

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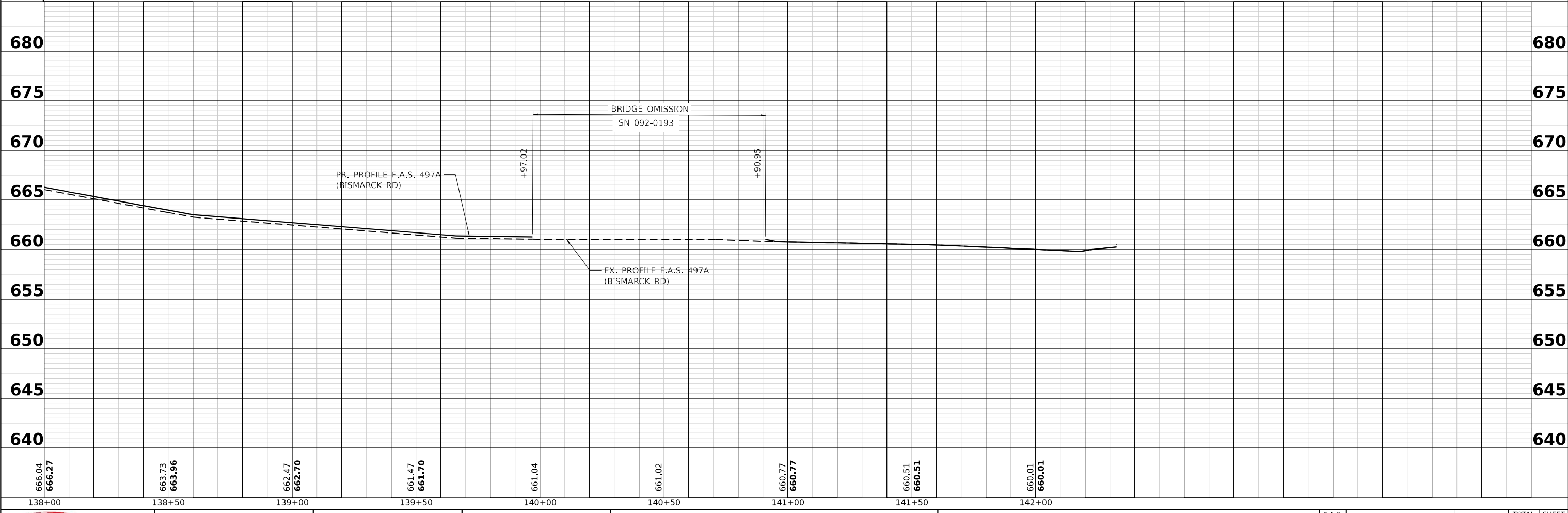


DATE	
BY	
PLANNING	
CHECKED	
APPROVED	
NO. _____	
NO. _____	

DATE	
BY	
PROFILE	
CHECKED	
APPROVED	
NO. _____	
NO. _____	



- PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT & INCIDENTAL HMA SURFACING
- DRIVEWAY PAVEMENT REMOVAL, AGGREGATE BASE COURSE, TYPE B 6", & INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL - SPECIAL & INCIDENTAL HMA SURFACING
- SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)
- INCIDENTAL HMA SURFACING
- HMA SURFACE REMOVAL, 1 1/2" & INCIDENTAL HMA SURFACING



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LICENSE NO: 184-001220

USER NAME = bbillhartz  
DESIGNED - EKF  
DRAWN - BAB  
CHECKED - TBP  
DATE - 12/2022

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REVISED -  
REVISED -  
REVISED -

PLOT SCALE = 39.99992000 ' / in.  
PLOT DATE = 12/12/2022

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PLAN AND PROFILE**  
**BISMARCK ROAD**

SCALE: 1"=20'      SHEET 15 OF 15 SHEETS      STA. 138+00.00 TO STA. 142+21.99

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	53
			CONTRACT NO. 70B05	
		ILLINOIS	FED. AID PROJECT	



ABBREVIATIONS

F.S.T. - FLAT SLAB TOP  
INF. - INFLOW  
INV. - INVERT

PR. MANHOLES, TYPE A, 6'-  
DIAMETER, TYPE 1 FRAME,  
CLOSED LID WITH F.S.T.,  
CENTER OF STRUCTURE  
STA. 120+42.61  
OFF. 34.77 LT  
TOP OF F.S.T. = 656.17  
INF. (S) = 651.90  
INF. (SW) = 652.06  
EX. INV. (NE) = 651.90

CONNECT EX 36" STORM SEWER  
TO NEW MANHOLE

STORM SEWER REMOVAL 36", 4.2'

PR. STORM SEWERS (SPECIAL), 30"  
3.6' @ 0.0%

EX. ROW

EX. ROW

REMOVING MANHOLES, 1 EACH

PR. MEDIAN INLET (604106), SPECIAL  
CENTER OF STRUCTURE/GRATE  
STA. 120+56.54  
OFF. 26.02' LT  
BOTTOM OF FRAME = 654.90  
INV. (W) = 652.37

PR. STORM SEWERS, CLASS A, TYPE 1 24"  
9.9' @ 3.1%

STORM SEWER REMOVAL 12", 20.4'  
REMOVING INLETS, 1 EACH

PAVED DITCH (SPECIAL), 33.25'  
STA. 120+27.88 TO STA. 120+61.13  
(SEE "DRAINAGE" DETAILS "PAVED DITCH" (SPECIAL))

STORM SEWER REMOVAL 12", 13.5'

REMOVING INLETS, 1 EACH

PR. STORM SEWERS, CLASS A, TYPE 1 24"  
8.5' @ 2.8%

STORM SEWER REMOVAL 30", 16.0'

PR. STORM SEWERS (SPECIAL), 30"  
4.9' @ 15.0%

PR. MEDIAN INLET (604106), SPECIAL  
CENTER OF STRUCTURE/GRATE  
STA. 120+32.46  
OFF. 25.97 LT  
BOTTOM OF FRAME = 654.90  
INV. (NE) = 652.37

PR. FIELD TILE JUNCTION BOX, 2' DIA.  
(SEE NOTE 3)

PR. STORM SEWERS (SPECIAL), 8"

PR. EXPLORATION TRENCH 52" DEPTH  
EX. FIELD TILE REMOVAL

PR. CONCRETE COLLAR

EX. 30" STORM SEWER

EX. MANHOLE

120+00

121

F.A.S. 497A (BISMARCK RD)

PR. MANHOLES, TYPE A, 6'-  
DIAMETER, TYPE 8 GRATE,  
WITH F.S.T.  
CENTER OF STRUCTURE  
STA. 120+44.50  
OFF. 25.98 LT  
TOP OF F.S.T. = 655.30  
INF. (SE) = 651.90  
INF. (E) = 652.13  
INV. (N) = 651.90

NOTES:

1. PIPE ELEVATIONS BASED ON AS-BUILT INFORMATION.
2. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION.
3. THE CONTRACTOR SHALL CONNECT THE EXISTING FIELD TILE JUNCTION BOX ACCORDING TO SECTION 611.
4. IF A DROP-OFF ALONG BISMARCK ROAD EXCEEDS 12" WITHIN 8 FT FROM EDGE OF PAVEMENT, THE CONTRACTOR SHALL PLACE AGGREGATE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER TO CORRECT DROP-OFF. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
5. WHEN WORK CONDITIONS PRODUCE A LOCATION OF NO MEANS OF ESCAPE FOR WORKERS FROM OMTORIZED TRAFFIC, THE ADJACENT TRAFFIC LANE SHALL BE CLOSED WHILE WORKERS ARE PRESENT. LANE CLOSURES SHALL BE BY THE APPROPRIATE TRAFFIC CONTROL HIGHWAY STANDARD.
6. ALL EARTH AREAS DISTURBED BY THE CONTRACTOR FOR THIS WORK SHALL BE SEEDED WITH TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 2A, FERTILIZER, AND MULCH METHOD 2.

MODEL: D:\p\11\110577E-Bismarck\_Road (P565) \A\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rhdetails\_inlets\_01.dgn



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DESIGNED - EKF  
DRAWN - BAB  
CHECKED - TBP  
DATE - 12/2022

PLOT SCALE = 10,000' / in.  
PLOT DATE = 12/12/2022

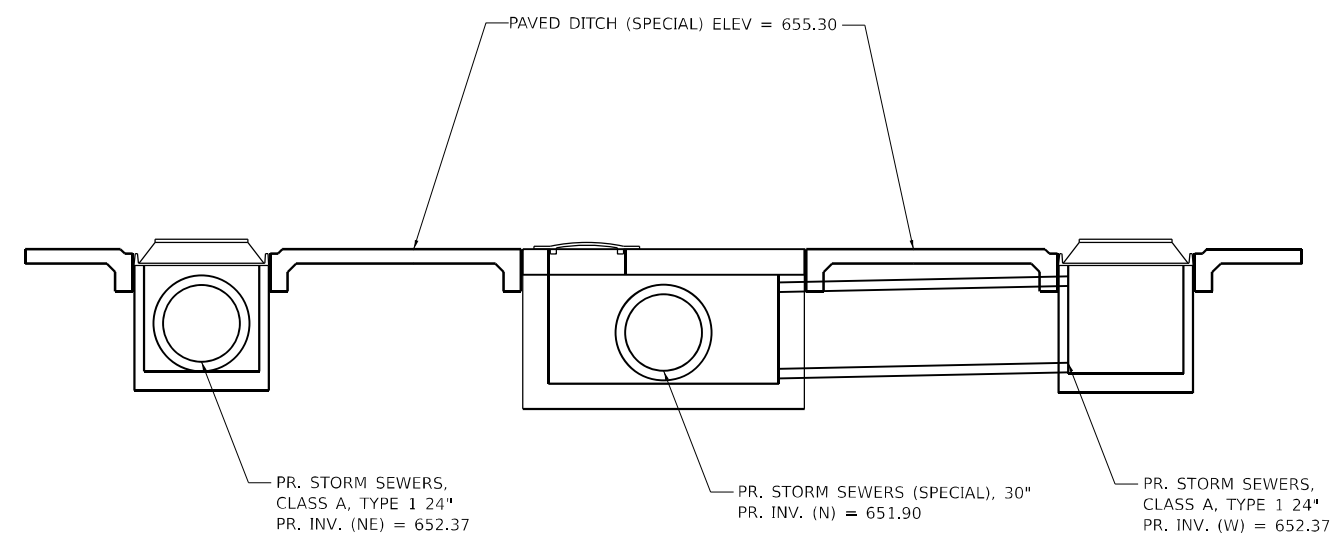
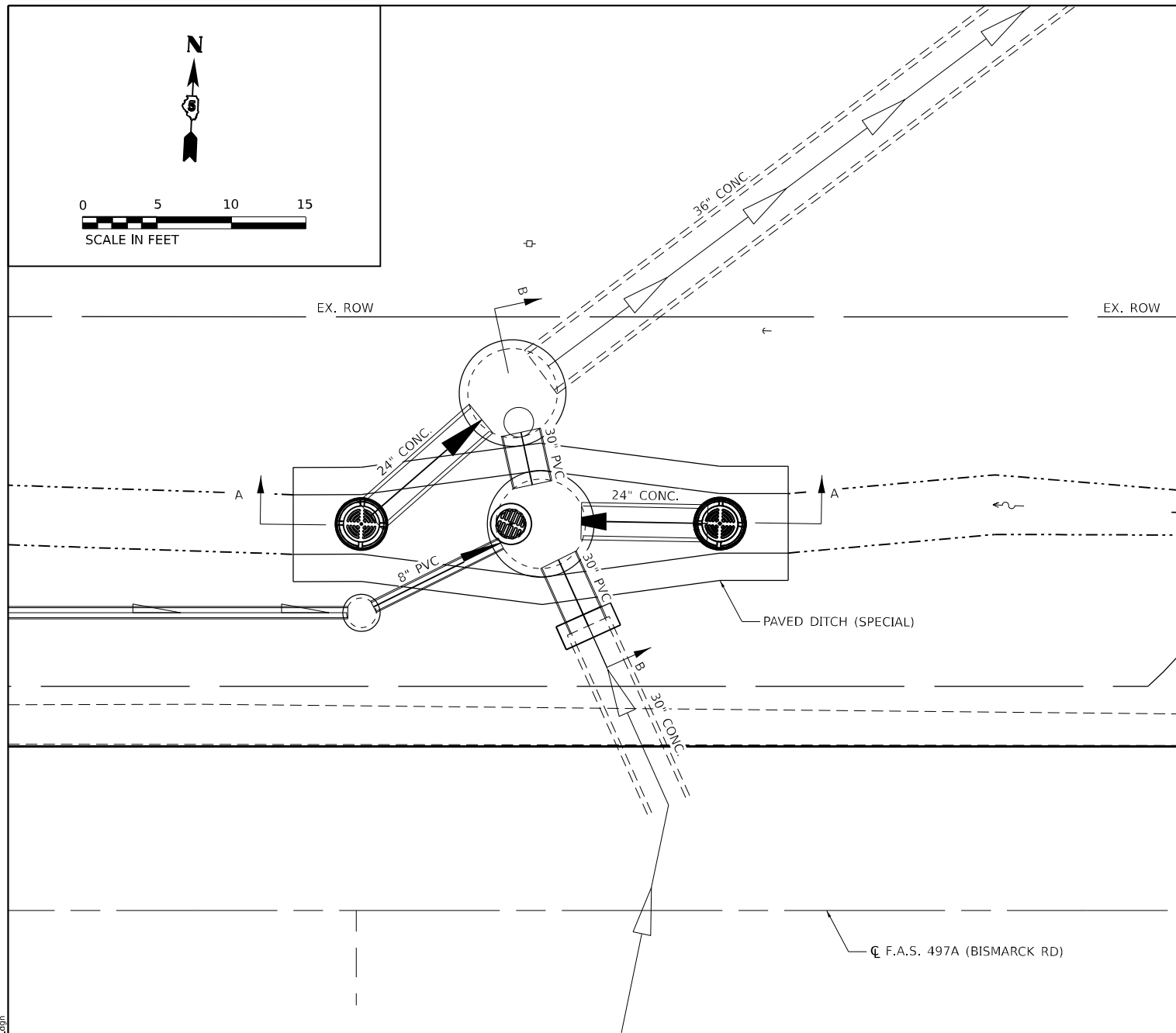
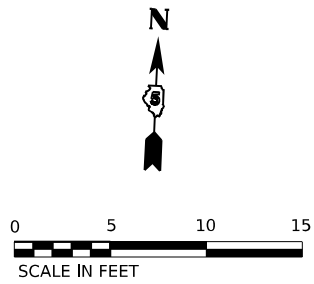
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

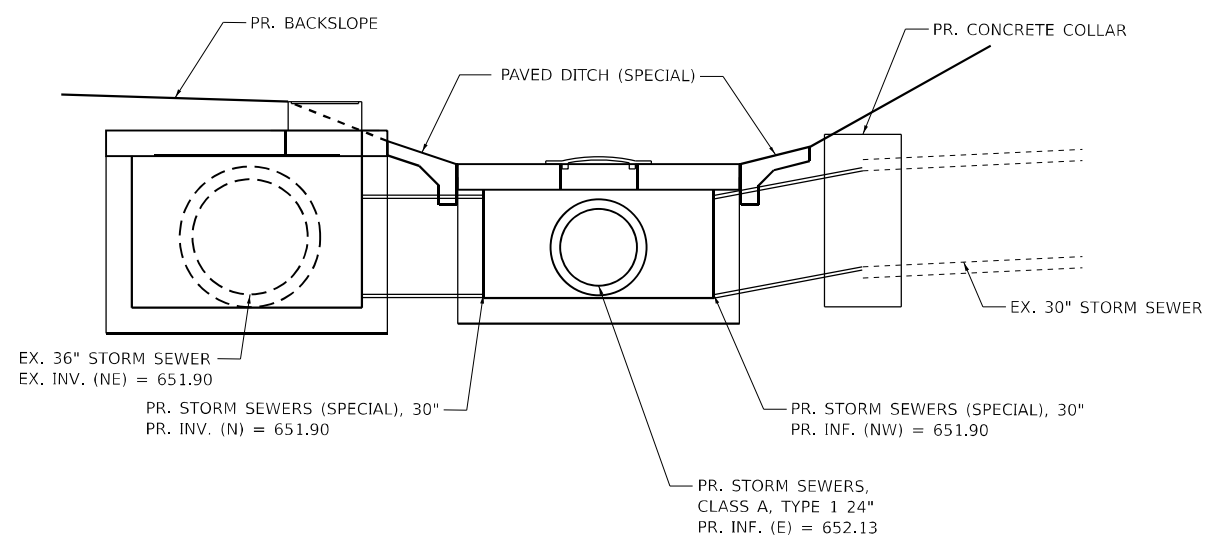
DRAINAGE DETAILS  
INLET REPAIR - STA. 120 + 44.50

SCALE: 1"=5' SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	54
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	



SECTION A-A



SECTION B-B

NOTE:  
SEE DRAINAGE DETAILS PAVED DITCH (SPECIAL) FOR ADDITIONAL DETAILS.

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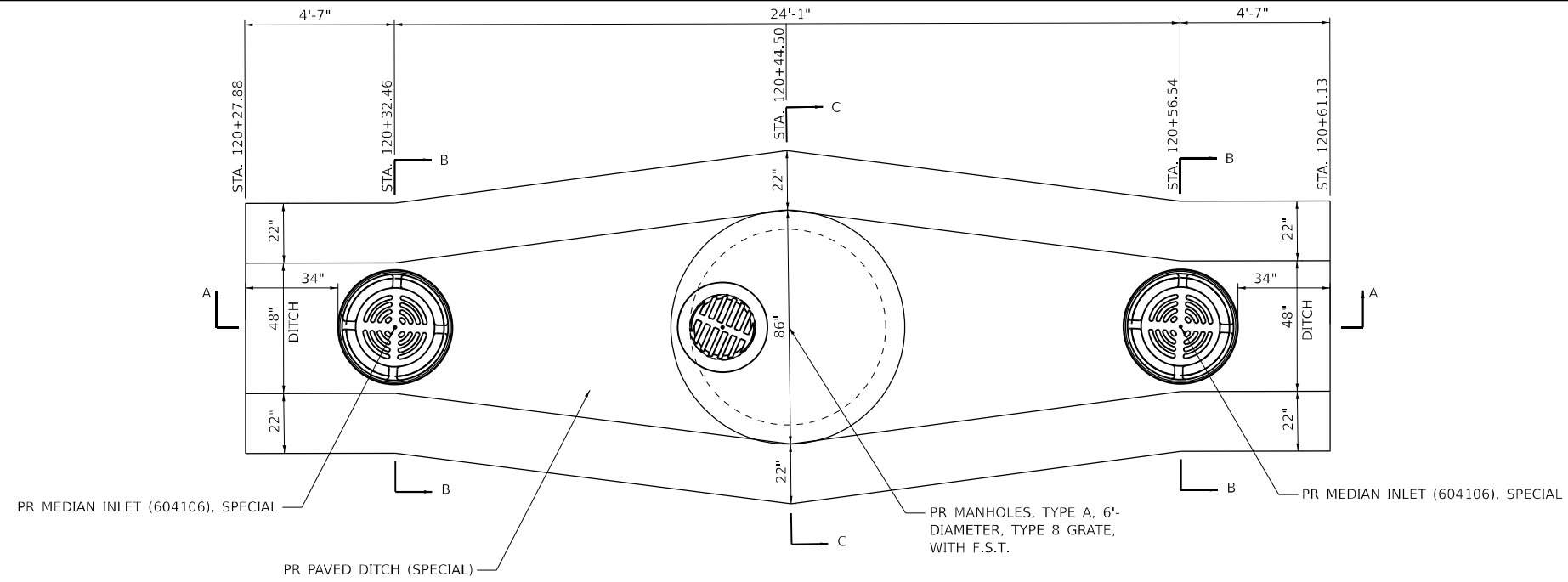


USER NAME =	bbillhartz	DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	REVISIED -		REVISIED -	
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PLOT DATE =	12/12/2022	DATE -	12/2022	REVISIED -	

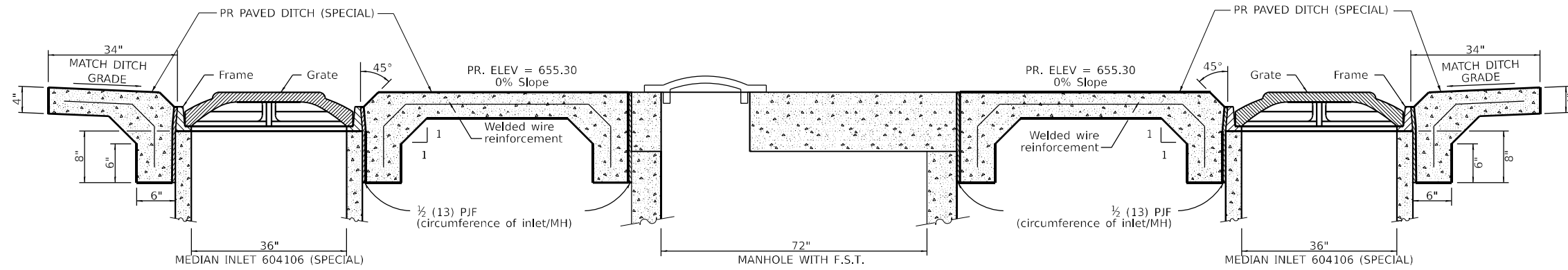
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>DRAINAGE DETAILS</b> <b>INLET REPAIR - STA. 120 + 44.50</b>			
SCALE: 1"=5'	SHEET 2	OF 7 SHEETS	STA. TO STA.

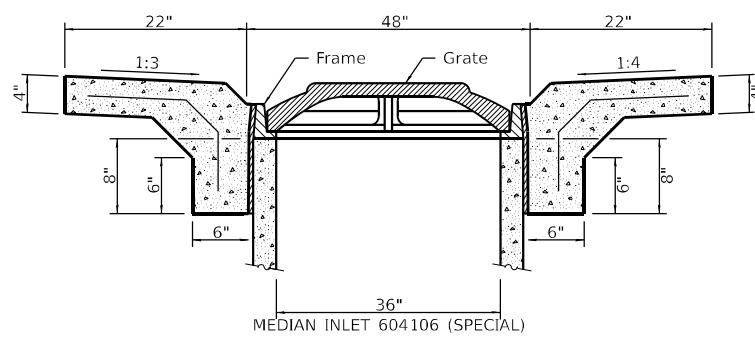
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	55
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



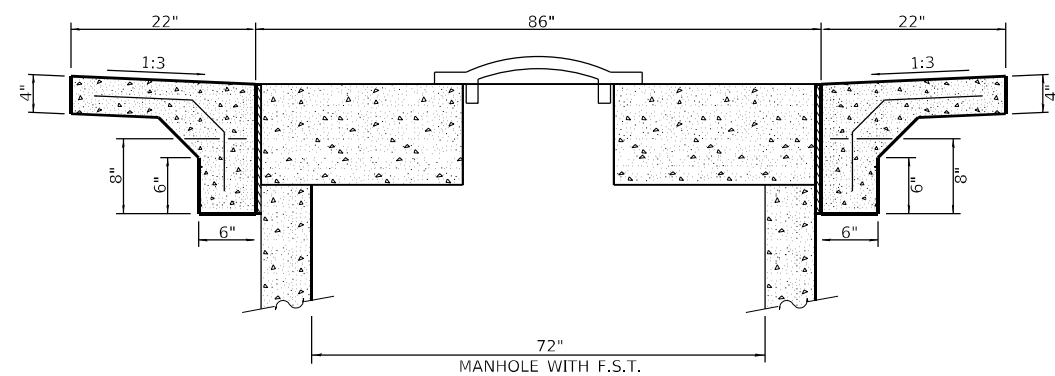
LOCATION SKETCH - PLAN



SECTION A-A



SECTION B-B



SECTION C-C

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USER NAME =	bbillhartz	DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	REVISOR -		REVISION -	
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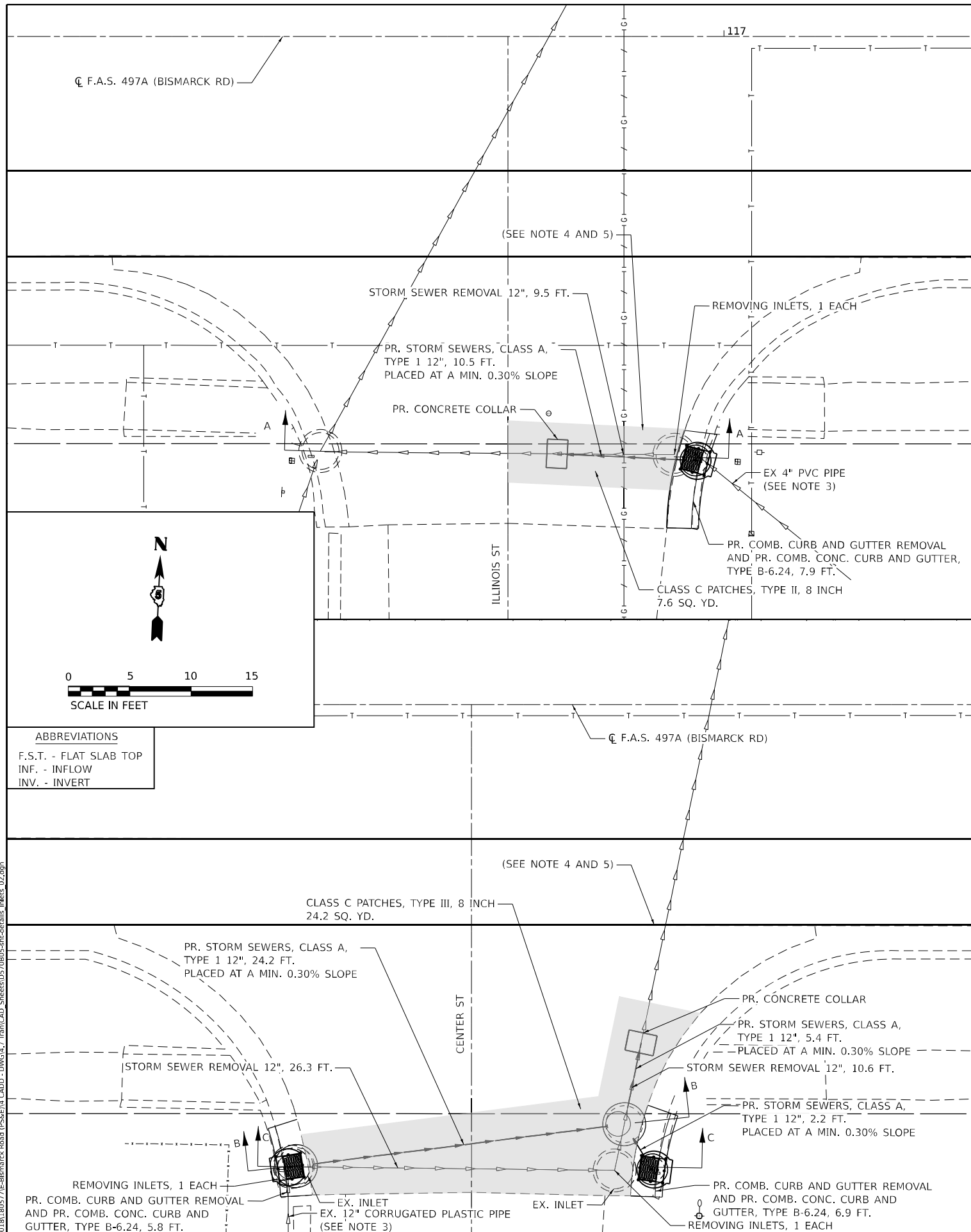
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS  
PAVED DITCH (SPECIAL)

SCALE: N.T.S. SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	56
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

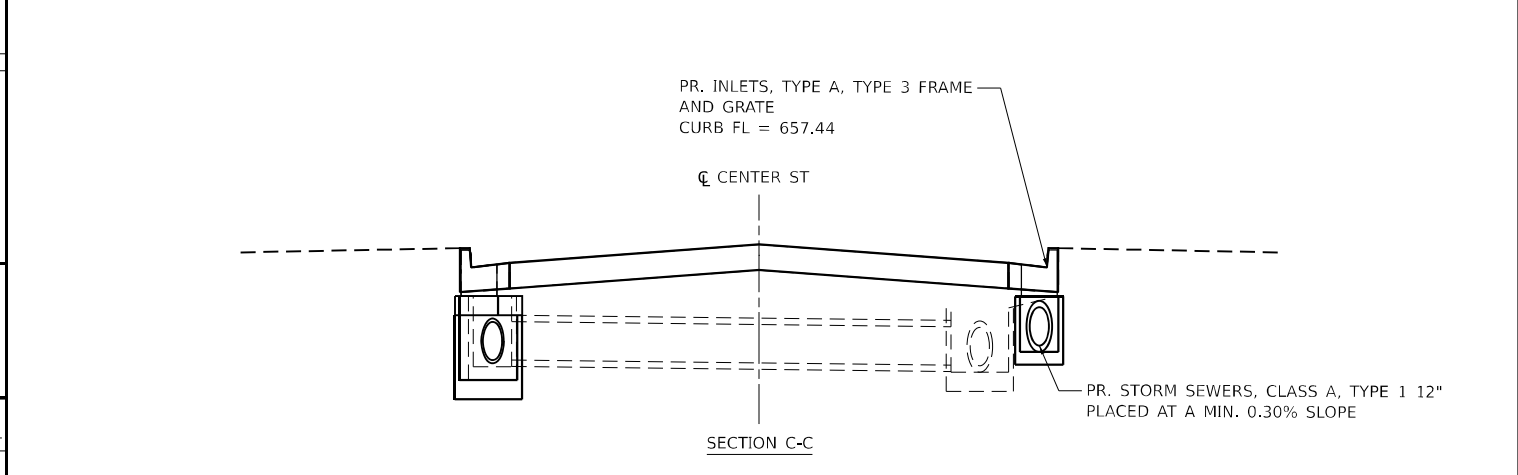
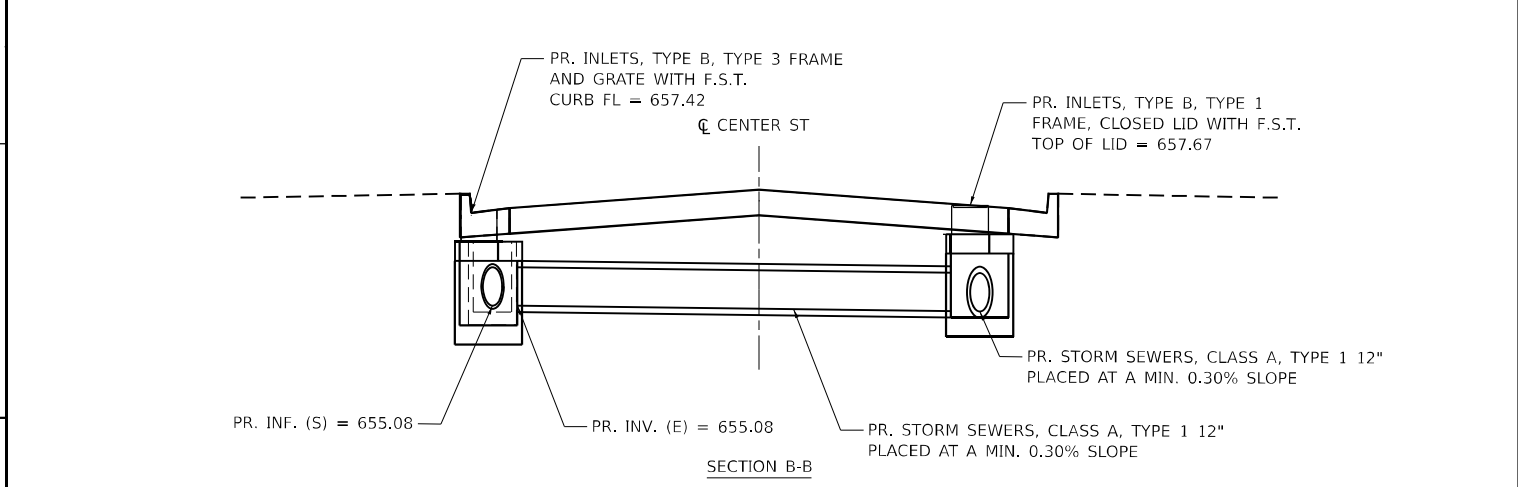
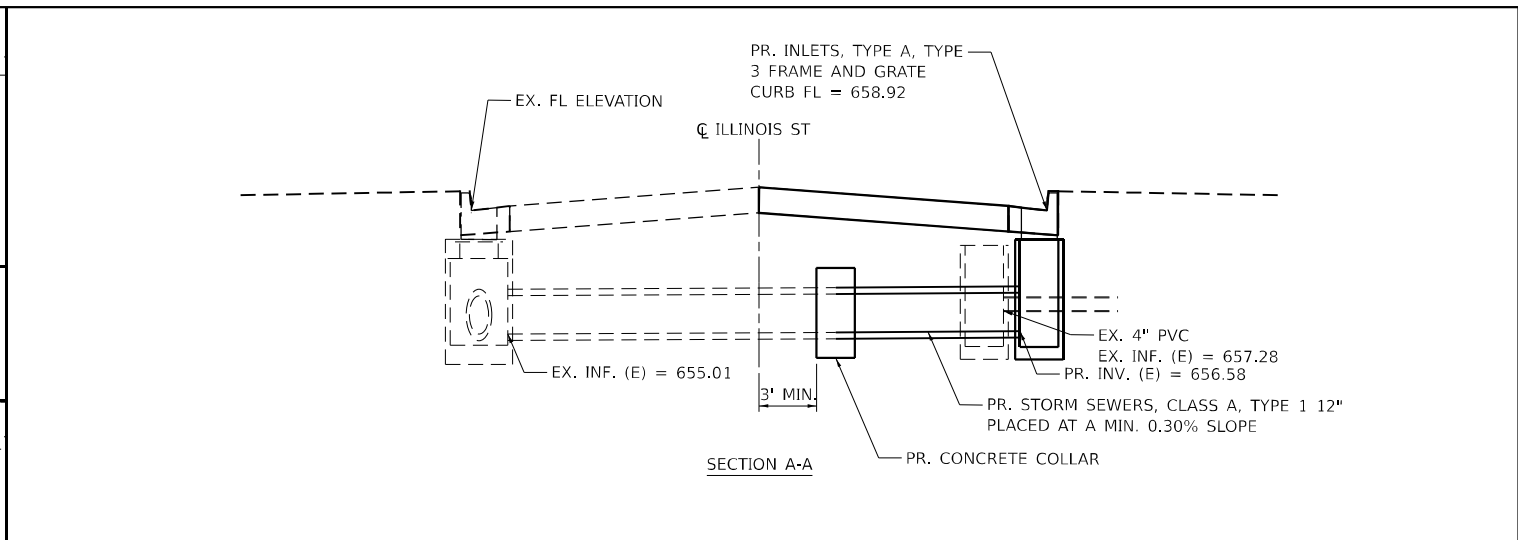




ABBREVIATIONS

F.S.T. - FLAT SLAB TOP  
 INF. - INFLOW  
 INV. - INVERT

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 PROJECT: 117-01-01  
 SHEET: 4 OF 7  
 DATE: 12/12/2022



- NOTES:
1. ALL ELEVATIONS, IF KNOWN, ARE APPROXIMATE. ENGINEER TO DETERMINE EXACT ELEVATIONS IN THE FIELD TO FIT EXISTING FIELD CONDITIONS.
  2. ALL EXCAVATED AREAS UNDER PAVEMENT AND WITHIN 2 FEET OF THE PAVEMENT EDGE SHALL BE BACKFILLED ACCORDING TO THE SECTIONS OF THE STANDARD SPECIFICATIONS RELATED TO THAT PAY ITEM. THIS WORK WILL NOT BE PAID FOR AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE RELATED TO THAT PAY ITEM.
  3. THE CONTRACTOR SHALL CONNECT THE EXISTING PIPE TO THE PROPOSED INLET ACCORDING TO SECTION 602.
  4. IF A DROP-OFF ALONG BISMARCK ROAD EXCEEDS 12" WITHIN 8 FT FROM EDGE OF PAVEMENT, THE CONTRACTOR SHALL PLACE AGGREGATE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER TO CORRECT DROP-OFF. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
  5. WHEN WORK CONDITIONS PRODUCE A LOCATION OF NO MEANS OF ESCAPE FOR WORKERS FROM MOTORIZED TRAFFIC, THE ADJACENT TRAFFIC LANE SHALL BE CLOSED WHILE WORKERS ARE PRESENT. LANE CLOSURES SHALL BE BY THE APPROPRIATE TRAFFIC CONTROL HIGHWAY STANDARD.
  6. ALL EARTH AREAS DISTURBED BY THE CONTRACTOR FOR THIS WORK SHALL BE SEEDING WITH TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 2A, FERTILIZER, AND MULCH METHOD 2.

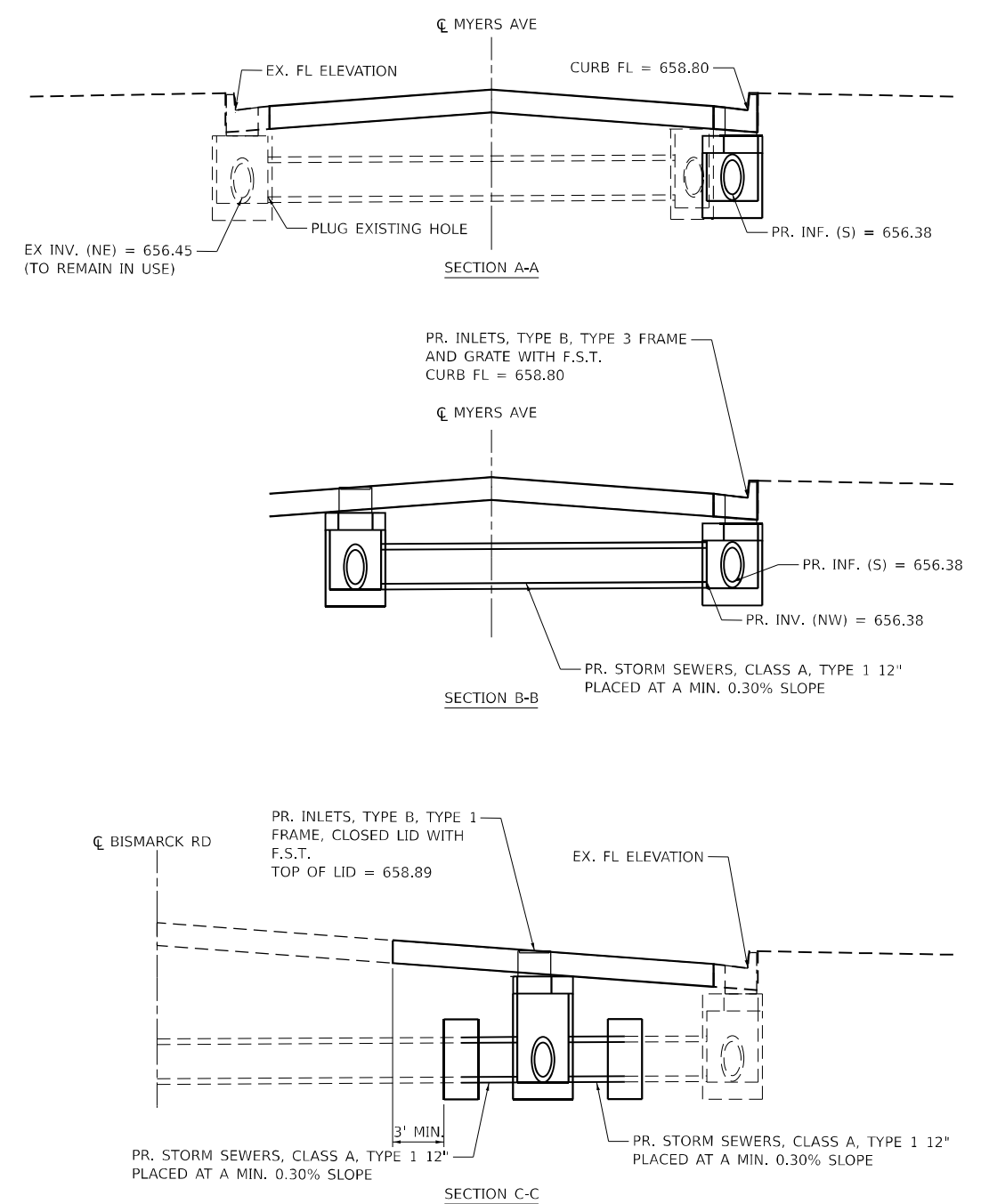
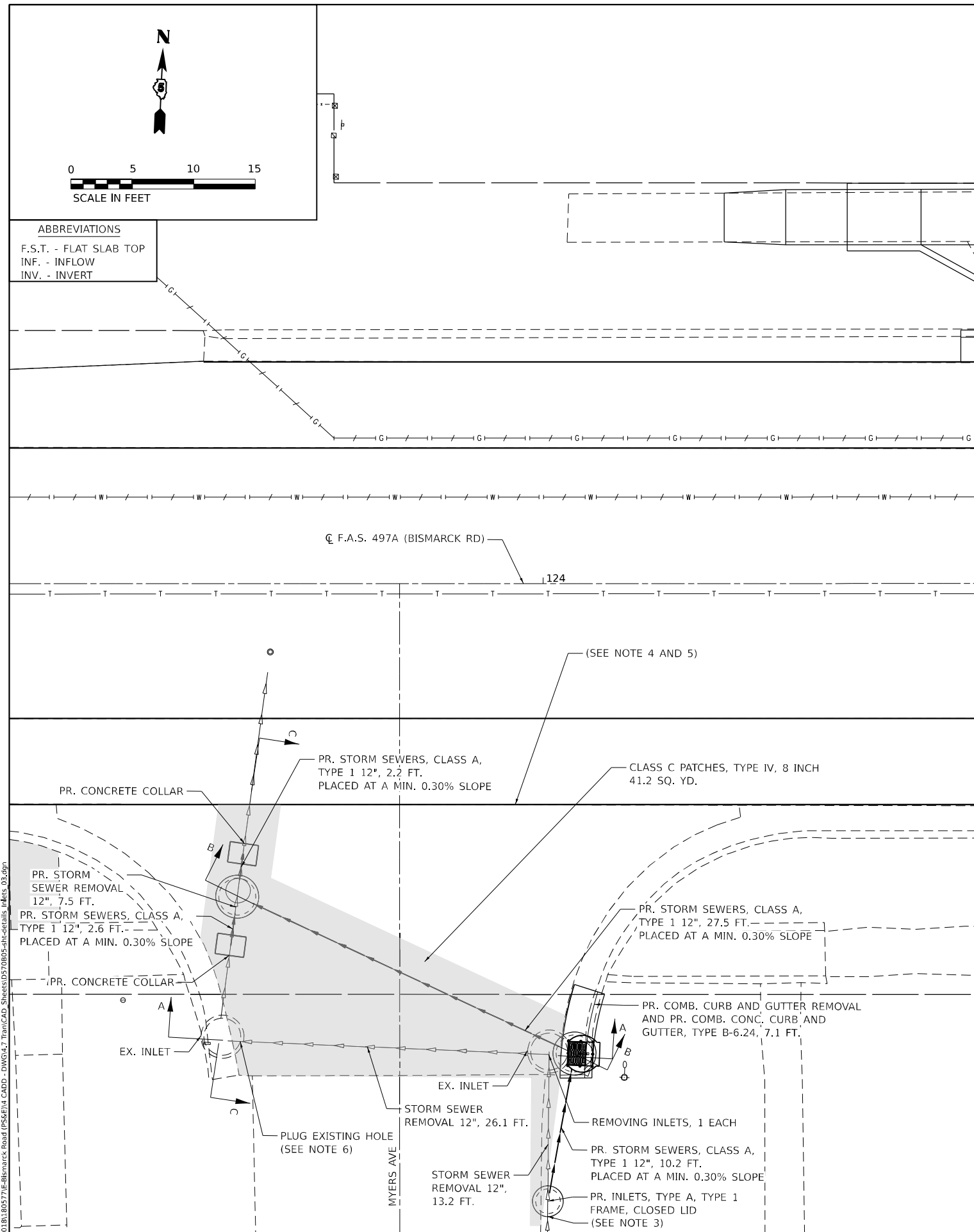
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		DATE - 12/2022	REVISED -

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

**DRAINAGE DETAILS**  
**INLET REPAIR SHEETS - ILLINOIS STREET AND CENTER STREET**

SCALE: 1"=5'    SHEET 4 OF 7 SHEETS    STA.    TO STA.

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 57
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



- NOTES:
1. ALL ELEVATIONS, IF KNOWN, ARE APPROXIMATE. ENGINEER TO DETERMINE EXACT ELEVATIONS IN THE FIELD TO FIT EXISTING FIELD CONDITIONS.
  2. ALL EXCAVATED AREAS UNDER PAVEMENT AND WITHIN 2 FEET OF THE PAVEMENT EDGE SHALL BE BACKFILLED ACCORDING TO THE SECTIONS OF THE STANDARD SPECIFICATIONS RELATED TO THAT PAY ITEM. THIS WORK WILL NOT BE PAID FOR AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE RELATED TO THAT PAY ITEM.
  3. THE CONTRACTOR SHALL CONNECT THE EXISTING PIPE TO THE PROPOSED INLET ACCORDING TO SECTION 611.
  4. IF A DROP-OFF ALONG BISMARCK ROAD EXCEEDS 12" WITHIN 8 FT FROM EDGE OF PAVEMENT, THE CONTRACTOR SHALL PLACE AGGREGATE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER TO CORRECT DROP-OFF. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
  5. WHEN WORK CONDITIONS PRODUCE A LOCATION OF NO MEANS OF ESCAPE FOR WORKERS FROM MOTORIZED TRAFFIC, THE ADJACENT TRAFFIC LANE SHALL BE CLOSED WHILE WORKERS ARE PRESENT. LANE CLOSURES SHALL BE BY THE APPROPRIATE TRAFFIC CONTROL HIGHWAY STANDARD.
  6. AFTER THE EXISTING STORM SEWER HAS BEEN REMOVED, THE CONTRACTOR SHALL PLUG THE EXISTING PIPE/INLET HOLE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR STORM SEWER REMOVAL 12\"/>

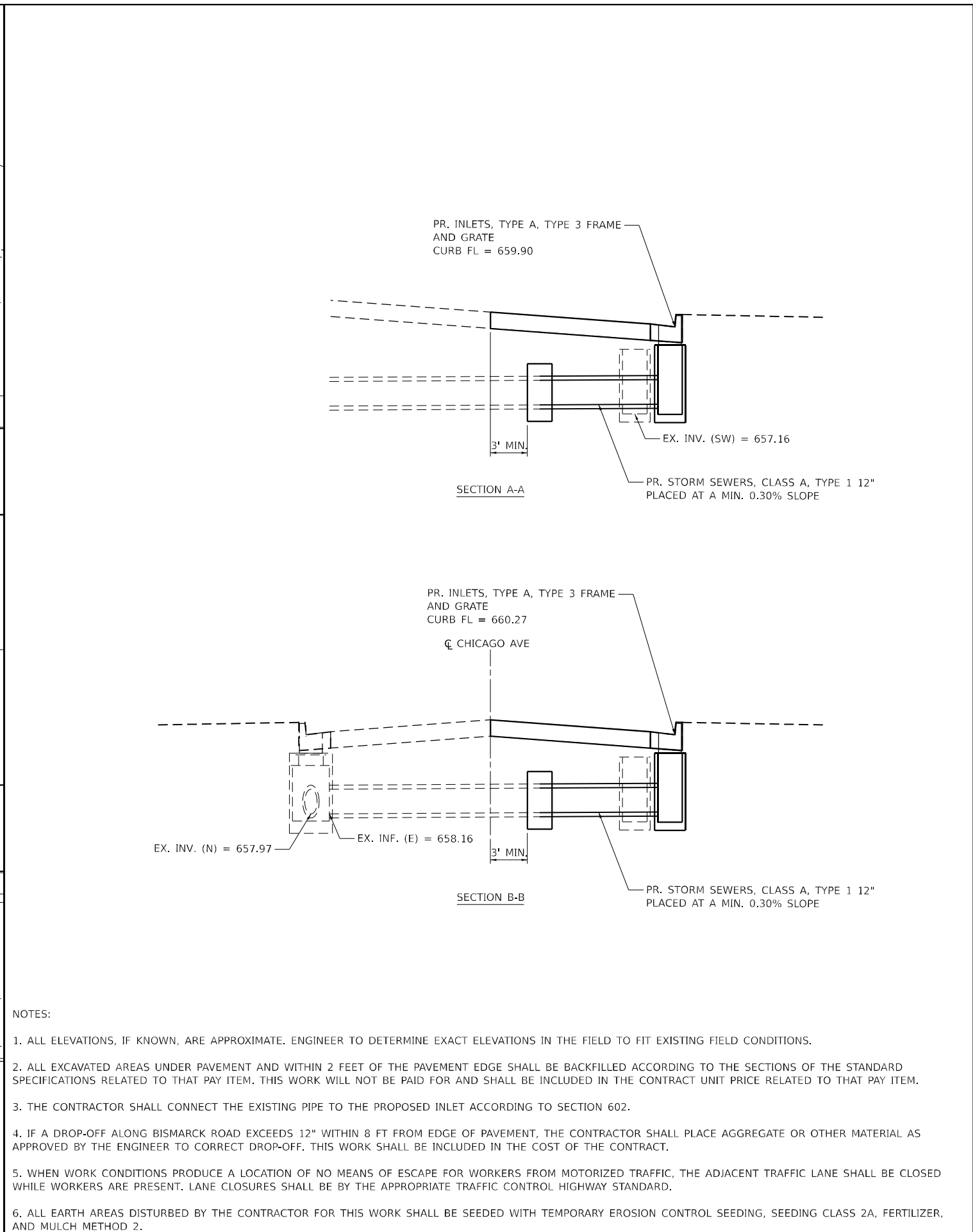
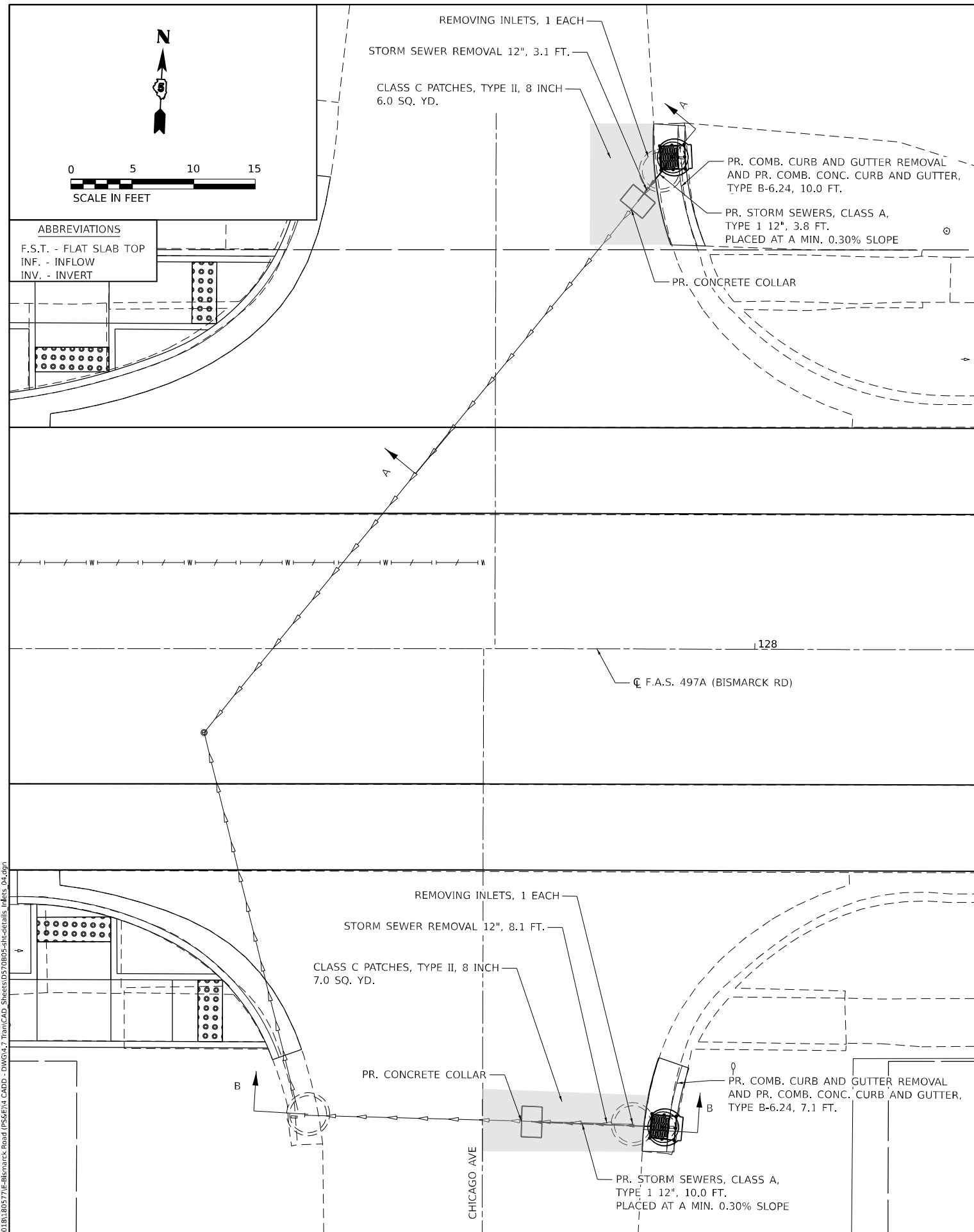
	<b>TWM, INC.</b> WWW.TWM-INC.COM IL DESIGN FIRM LICENSE NO: 184-001220	USER NAME = bbillhartz PLOT SCALE = 10,000' / in. PLOT DATE = 12/12/2022	DESIGNED - EKF DRAWN - BAB CHECKED - TBP DATE - 12/2022	REVISED - REVISED - REVISED - REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DRAINAGE DETAILS**  
**INLET REPAIR - MYERS AVENUE**

SCALE: 1"=5'      SHEET 5 OF 7 SHEETS      STA.      TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	58
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



- NOTES:
1. ALL ELEVATIONS, IF KNOWN, ARE APPROXIMATE. ENGINEER TO DETERMINE EXACT ELEVATIONS IN THE FIELD TO FIT EXISTING FIELD CONDITIONS.
  2. ALL EXCAVATED AREAS UNDER PAVEMENT AND WITHIN 2 FEET OF THE PAVEMENT EDGE SHALL BE BACKFILLED ACCORDING TO THE SECTIONS OF THE STANDARD SPECIFICATIONS RELATED TO THAT PAY ITEM. THIS WORK WILL NOT BE PAID FOR AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE RELATED TO THAT PAY ITEM.
  3. THE CONTRACTOR SHALL CONNECT THE EXISTING PIPE TO THE PROPOSED INLET ACCORDING TO SECTION 602.
  4. IF A DROP-OFF ALONG BISMARCK ROAD EXCEEDS 12" WITHIN 8 FT FROM EDGE OF PAVEMENT, THE CONTRACTOR SHALL PLACE AGGREGATE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER TO CORRECT DROP-OFF. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
  5. WHEN WORK CONDITIONS PRODUCE A LOCATION OF NO MEANS OF ESCAPE FOR WORKERS FROM MOTORIZED TRAFFIC, THE ADJACENT TRAFFIC LANE SHALL BE CLOSED WHILE WORKERS ARE PRESENT. LANE CLOSURES SHALL BE BY THE APPROPRIATE TRAFFIC CONTROL HIGHWAY STANDARD.
  6. ALL EARTH AREAS DISTURBED BY THE CONTRACTOR FOR THIS WORK SHALL BE SEEDED WITH TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 2A, FERTILIZER, AND MULCH METHOD 2.

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**TWM, INC.**  
 WWW.TWM-INC.COM  
 ILL. DESIGN FIRM  
 LICENSE NO: 184-001220

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

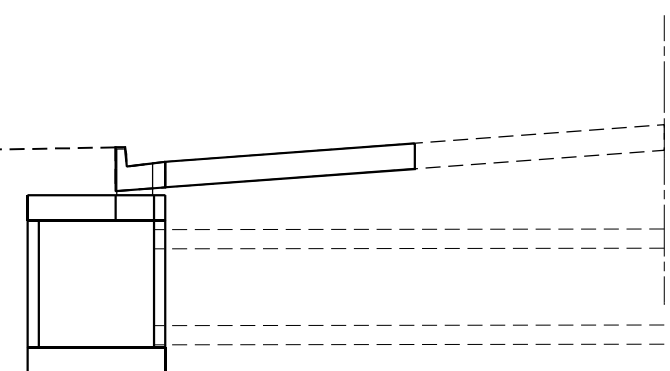
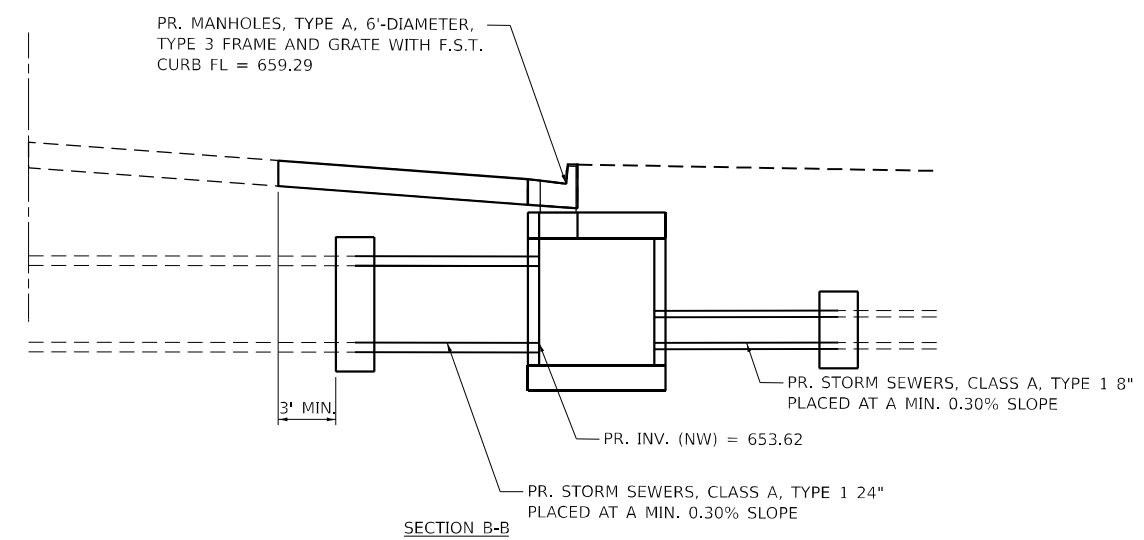
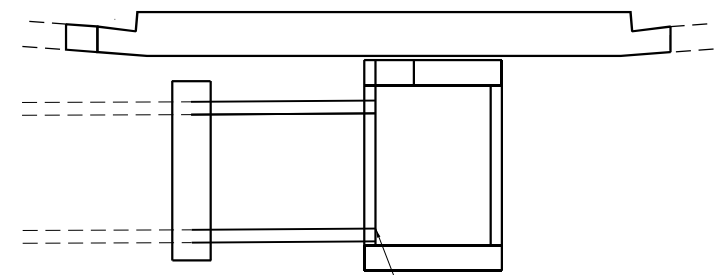
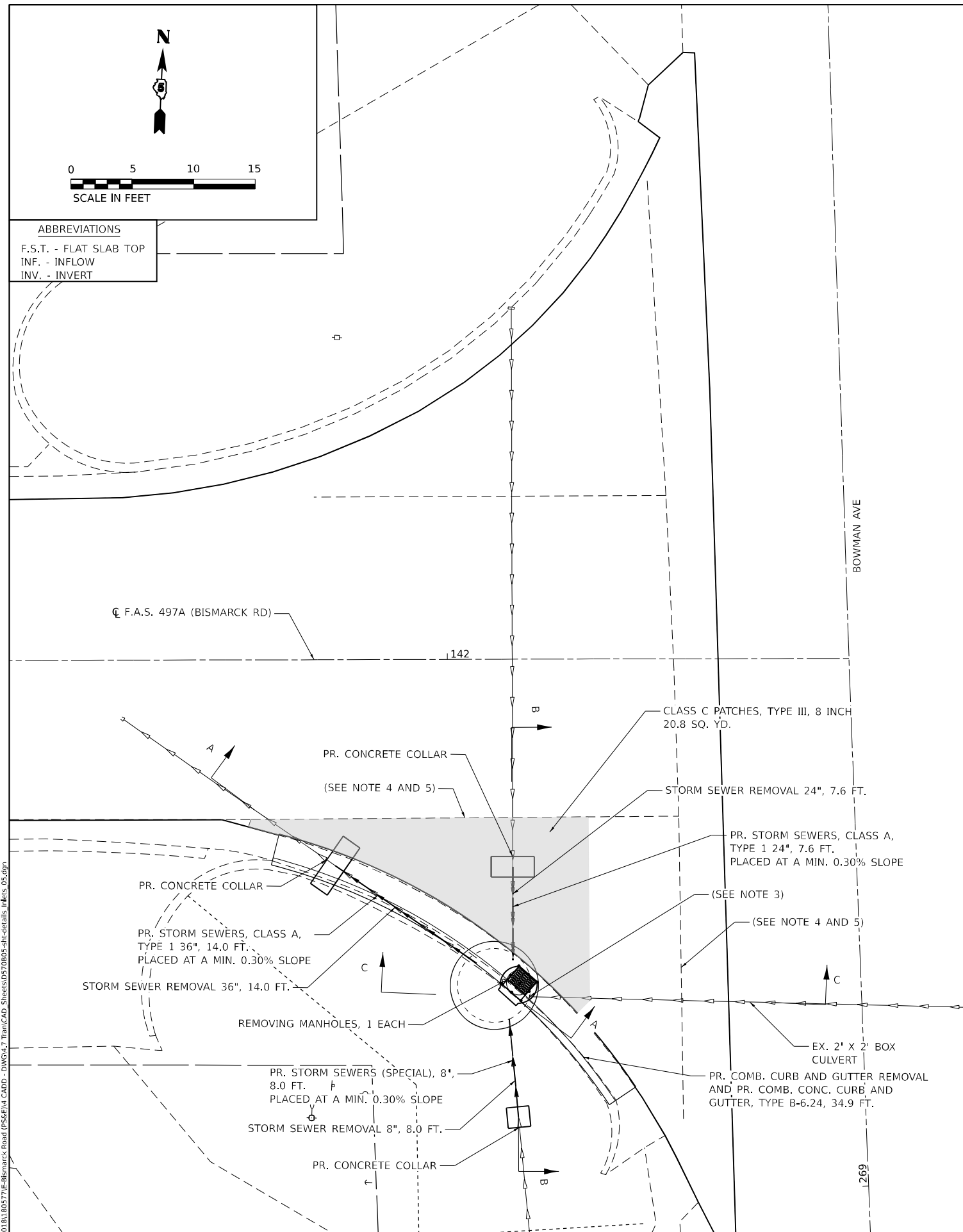
**DRAINAGE DETAILS**  
**INLET REPAIR - CHICAGO AVENUE**

SCALE: 1"=5'      SHEET 6 OF 7 SHEETS      STA.      TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	59
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



**ABBREVIATIONS**  
 F.S.T. - FLAT SLAB TOP  
 INF. - INFLOW  
 INV. - INVERT



**NOTES:**

1. ALL ELEVATIONS, IF KNOWN, ARE APPROXIMATE. ENGINEER TO DETERMINE EXACT ELEVATIONS IN THE FIELD TO FIT EXISTING FIELD CONDITIONS.
2. ALL EXCAVATED AREAS UNDER PAVEMENT AND WITHIN 2 FEET OF THE PAVEMENT EDGE SHALL BE BACKFILLED ACCORDING TO THE SECTIONS OF THE STANDARD SPECIFICATIONS RELATED TO THAT PAY ITEM. THIS WORK WILL NOT BE PAID FOR AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE RELATED TO THAT PAY ITEM.
3. THE CONTRACTOR SHALL CONNECT THE EXISTING BOX CULVERT TO THE PROPOSED INLET ACCORDING TO SECTION 602.
4. IF A DROP-OFF ALONG BISMARCK ROAD EXCEEDS 12" WITHIN 8 FT FROM EDGE OF PAVEMENT, THE CONTRACTOR SHALL PLACE AGGREGATE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER TO CORRECT DROP-OFF. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
5. WHEN WORK CONDITIONS PRODUCE A LOCATION OF NO MEANS OF ESCAPE FOR WORKERS FROM MOTORIZED TRAFFIC, THE ADJACENT TRAFFIC LANE SHALL BE CLOSED WHILE WORKERS ARE PRESENT. LANE CLOSURES SHALL BE BY THE APPROPRIATE TRAFFIC CONTROL HIGHWAY STANDARD.
6. ALL EARTH AREAS DISTURBED BY THE CONTRACTOR FOR THIS WORK SHALL BE SEEDED WITH TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 2A, FERTILIZER, AND MULCH METHOD 2.

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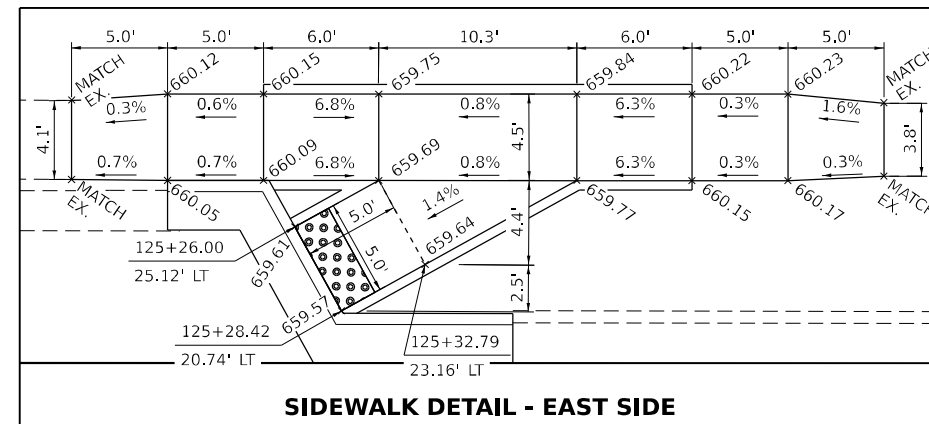
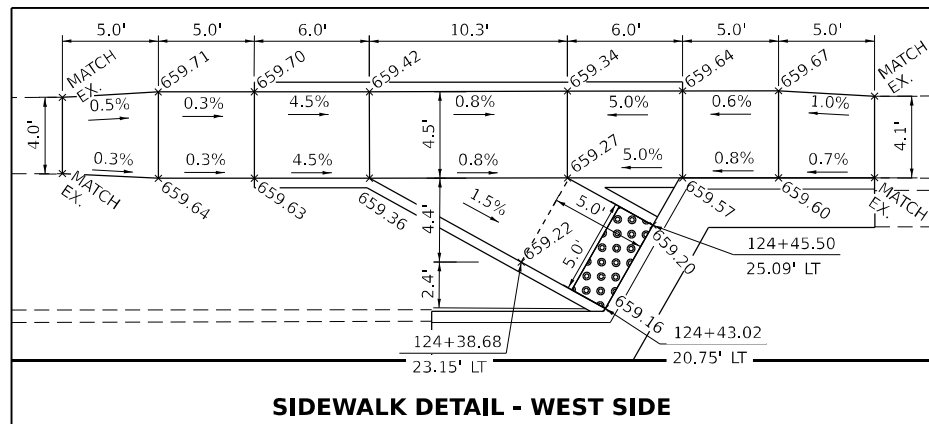
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

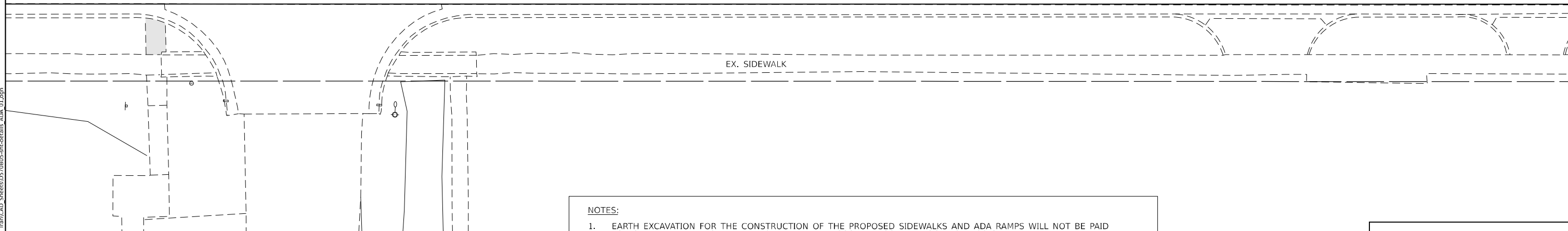
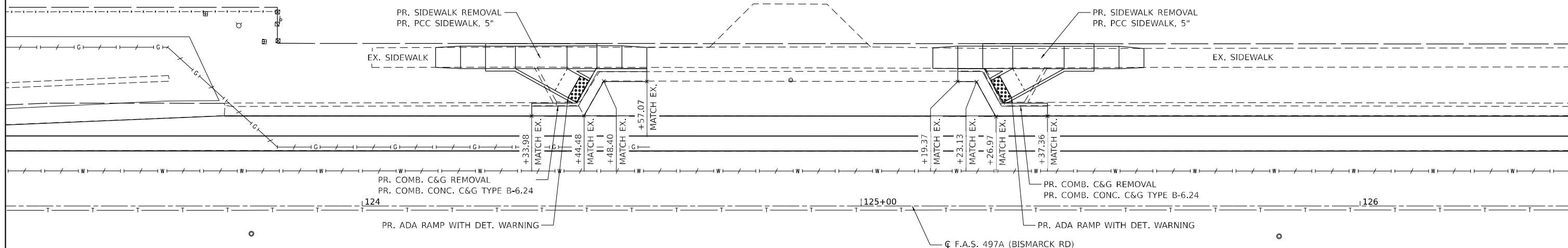
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**INLET REPAIR - BOWMAN AVENUE**

SCALE: 1"=5'    SHEET 7 OF 7 SHEETS    STA.    TO STA.

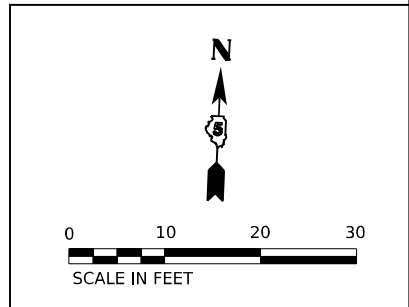
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497A	K(RS-2)	VERMILION	111	60
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



ELEMENTARY SCHOOL DROP-OFF



- NOTES:**
1. EARTH EXCAVATION FOR THE CONSTRUCTION OF THE PROPOSED SIDEWALKS AND ADA RAMP WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST PER SQUARE FOOT FOR PCC SIDEWALK, 5".
  2. ALL BARRIER CURBS FOR ADA RAMP AND SIDEWALKS ARE 6" UNLESS OTHERWISE NOTED.
  3. ALL EARTH AREAS DISTURBED BY THE CONTRACTOR FOR THIS WORK SHALL BE SEEDED WITH TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 2A, FERTILIZER, AND MULCH METHOD 2.
  4. EXISTING CONDITIONS MAY VARY SLIGHTLY IN THE FIELD. THE ENGINEER CAN ADJUST GRADES AND TIE LOCATIONS AS NECESSARY TO CONSTRUCT RAMP. ANY ADJUSTMENTS MADE BY THE ENGINEER SHALL MEET ADA REQUIREMENTS FOR CURB RAMP.
  5. MAX. ALLOWABLE RUNNING SLOPE OF RAMP = 1:12 (8.3%), SLOPE < 7% PREFERRED.
  6. MAX. ALLOWABLE RUNNING SLOPE OF TURNING SPACE = 1:50 (2%), SLOPE < 1.5% PREFERRED.
  7. MIN. ALLOWABLE WIDTH OF RAMP = 4'
  8. MAX. ALLOWABLE CROSS SLOPE OF SIDEWALK OR LANDING = 1:50 (2%), SLOPE < 1.5% PREFERRED.



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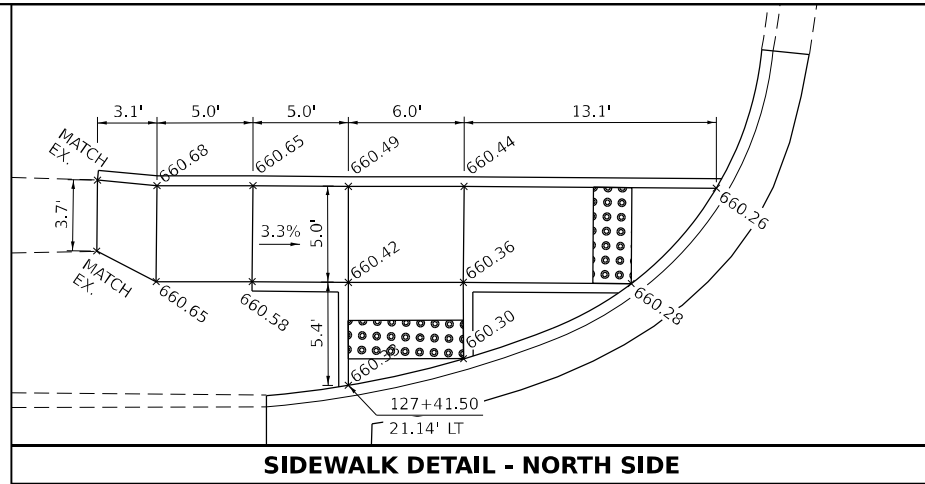
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

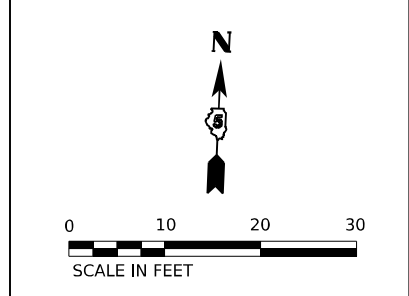
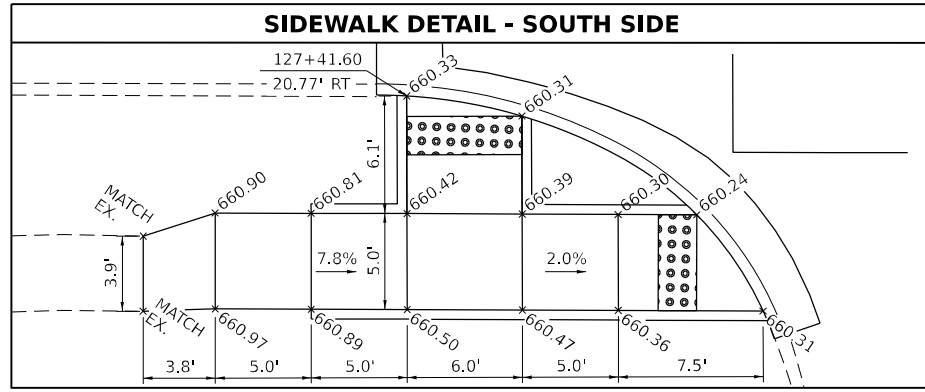
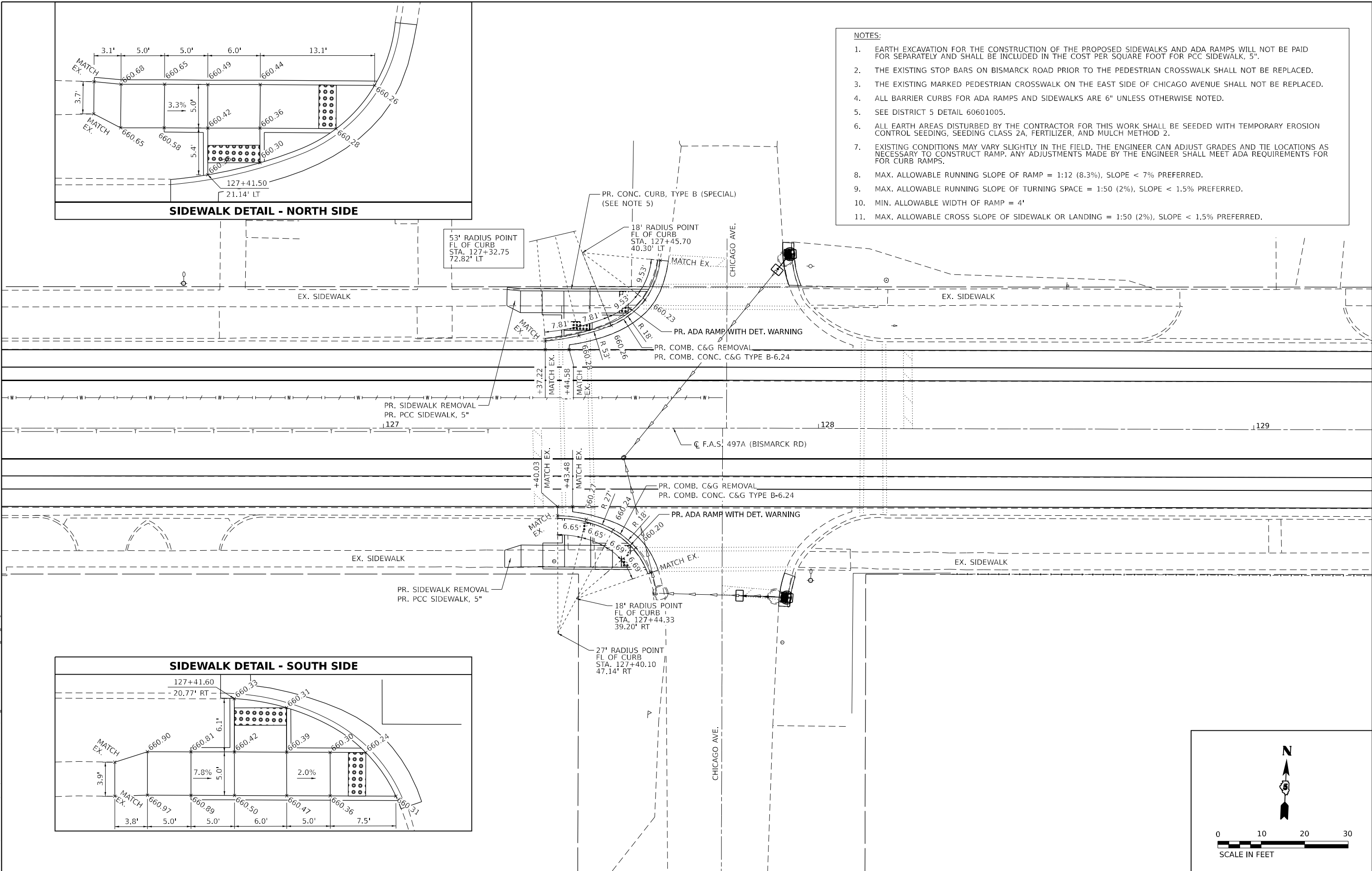
**SIDEWALK DETAILS**  
**ELEMENTARY SCHOOL**

SCALE: 1"=10'    SHEET 1 OF 3 SHEETS    STA.    TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	61
			CONTRACT NO. 70B05	
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. EARTH EXCAVATION FOR THE CONSTRUCTION OF THE PROPOSED SIDEWALKS AND ADA RAMP WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST PER SQUARE FOOT FOR PCC SIDEWALK, 5".
  2. THE EXISTING STOP BARS ON BISMARCK ROAD PRIOR TO THE PEDESTRIAN CROSSWALK SHALL NOT BE REPLACED.
  3. THE EXISTING MARKED PEDESTRIAN CROSSWALK ON THE EAST SIDE OF CHICAGO AVENUE SHALL NOT BE REPLACED.
  4. ALL BARRIER CURBS FOR ADA RAMP AND SIDEWALKS ARE 6" UNLESS OTHERWISE NOTED.
  5. SEE DISTRICT 5 DETAIL 60601005.
  6. ALL EARTH AREAS DISTURBED BY THE CONTRACTOR FOR THIS WORK SHALL BE SEEDED WITH TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 2A, FERTILIZER, AND MULCH METHOD 2.
  7. EXISTING CONDITIONS MAY VARY SLIGHTLY IN THE FIELD. THE ENGINEER CAN ADJUST GRADES AND TIE LOCATIONS AS NECESSARY TO CONSTRUCT RAMP. ANY ADJUSTMENTS MADE BY THE ENGINEER SHALL MEET ADA REQUIREMENTS FOR CURB RAMP.
  8. MAX. ALLOWABLE RUNNING SLOPE OF RAMP = 1:12 (8.3%), SLOPE < 7% PREFERRED.
  9. MAX. ALLOWABLE RUNNING SLOPE OF TURNING SPACE = 1:50 (2%), SLOPE < 1.5% PREFERRED.
  10. MIN. ALLOWABLE WIDTH OF RAMP = 4'
  11. MAX. ALLOWABLE CROSS SLOPE OF SIDEWALK OR LANDING = 1:50 (2%), SLOPE < 1.5% PREFERRED.



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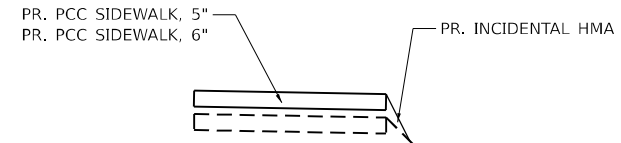
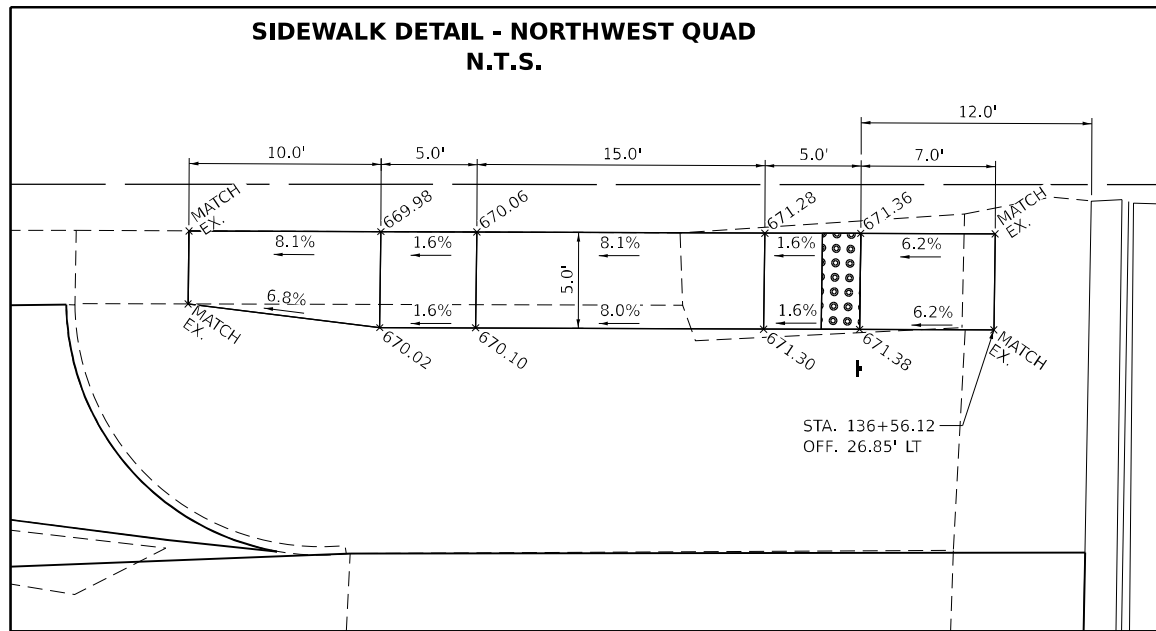
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

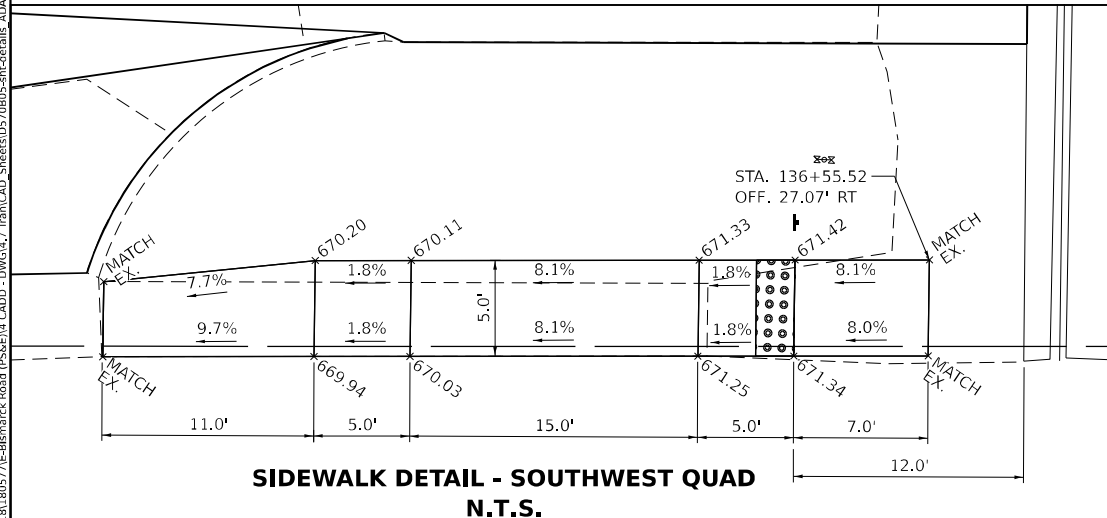
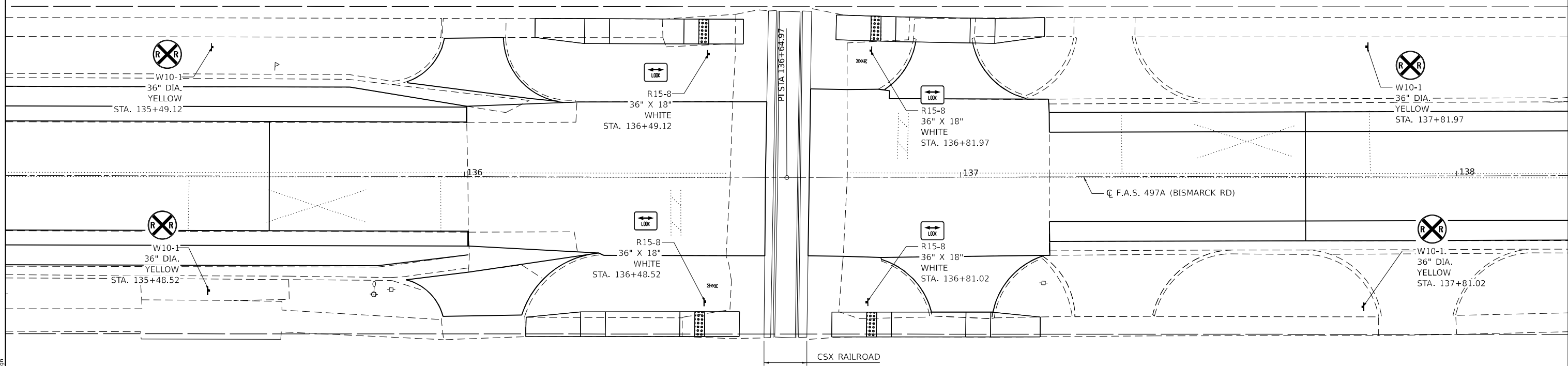
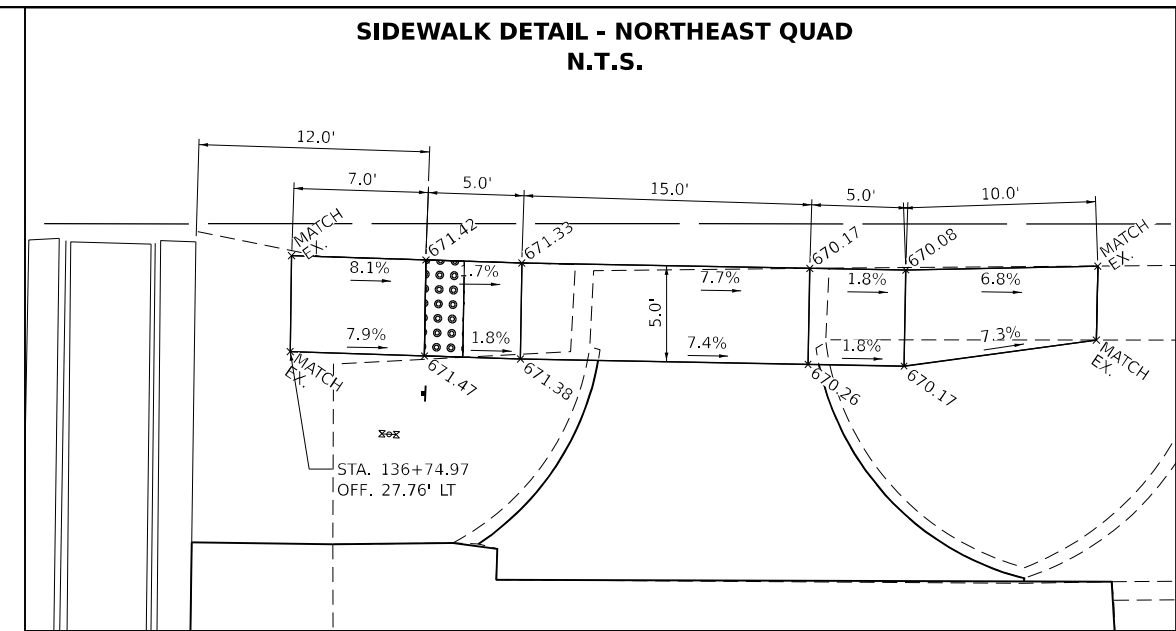
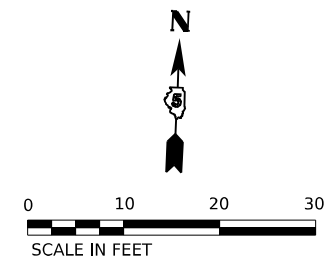
**SIDEWALK DETAILS**  
**CHICAGO AVENUE**

SCALE: 1"=10'    SHEET 2    OF 3    SHEETS    STA.    TO STA.

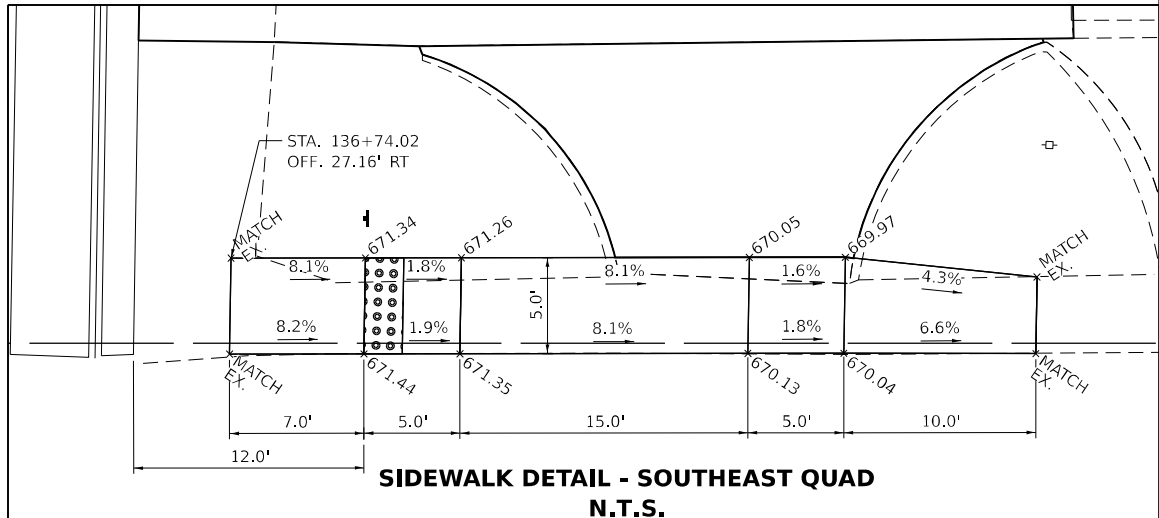
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	62
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



**SIDEWALK SECTION VIEW  
TYPICAL ALL QUADRANTS**



- NOTES:**
1. THE COST OF EARTH EXCAVATION AND EMBANKMENT REQUIRED TO CONSTRUCT THE PROPOSED SIDEWALKS AND ADA RAMP WILL NOT BE PAID FOR SEPARATELY. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PORTLAND CEMENT SIDEWALK 5 INCH.
  2. ELEVATIONS FOR THE PROPOSED SIDEWALKS AND ADA RAMP ARE BASED ON EXISTING SURVEY. IT IS ANTICIPATED THAT THE RAILROAD CROSSING WILL BE RECONSTRUCTED PRIOR TO THIS PROJECT AND THE GRADES AND ELEVATIONS WILL NEED TO BE RECALCULATED.
  3. ALL EARTH AREAS DISTURBED BY THE CONTRACTOR FOR THIS WORK SHALL BE SEEDED WITH TEMPORARY EROSION CONTROL SEEDING, SEEDING CLASS 2A, FERTILIZER, AND MULCH METHOD 2.
  4. EXISTING CONDITIONS MAY VARY SLIGHTLY IN THE FIELD. THE ENGINEER CAN ADJUST GRADES AND TIE LOCATIONS AS NECESSARY TO CONSTRUCT RAMP. ANY ADJUSTMENTS MADE BY THE ENGINEER SHALL MEET ADA REQUIREMENTS FOR FOR CURB RAMPS.
  5. MAX. ALLOWABLE RUNNING SLOPE OF RAMP = 1:12 (8.3%), SLOPE < 7% PREFERRED.
  6. MAX. ALLOWABLE RUNNING SLOPE OF TURNING SPACE = 1:50 (2%), SLOPE < 1.5% PREFERRED.
  7. MIN. ALLOWABLE WIDTH OF RAMP = 4'
  8. MAX. ALLOWABLE CROSS SLOPE OF SIDEWALK OR LANDING = 1:50 (2%), SLOPE < 1.5% PREFERRED.



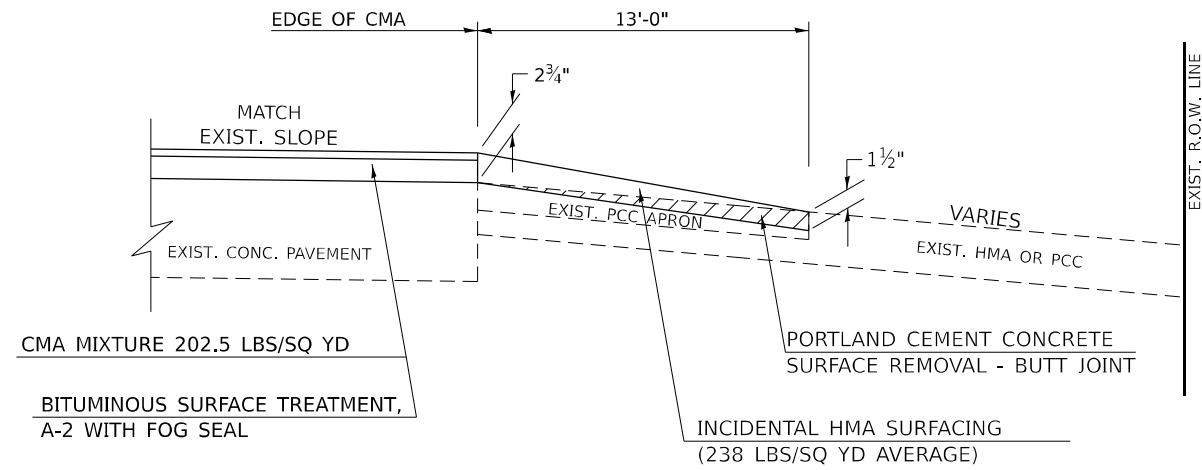
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DATE -	12/2022	DATE -	12/2022	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAILS  
AT RAILROAD CROSSING**

SCALE: 1"=10'    SHEET 3 OF 3 SHEETS    STA.    TO STA.

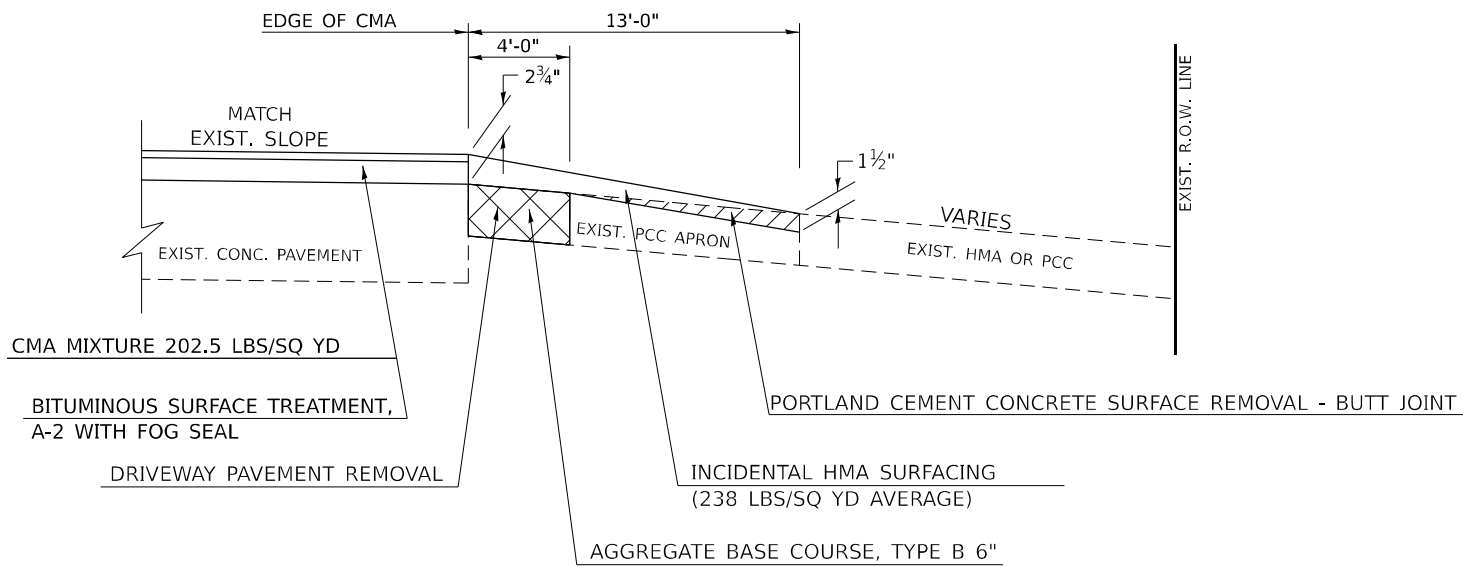
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497A	KRS-2)	VERMILION	111	63
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	



**EXISTING HMA OR PCC ENTRANCE WITH PCC APRON**

ENTRANCE STATIONS

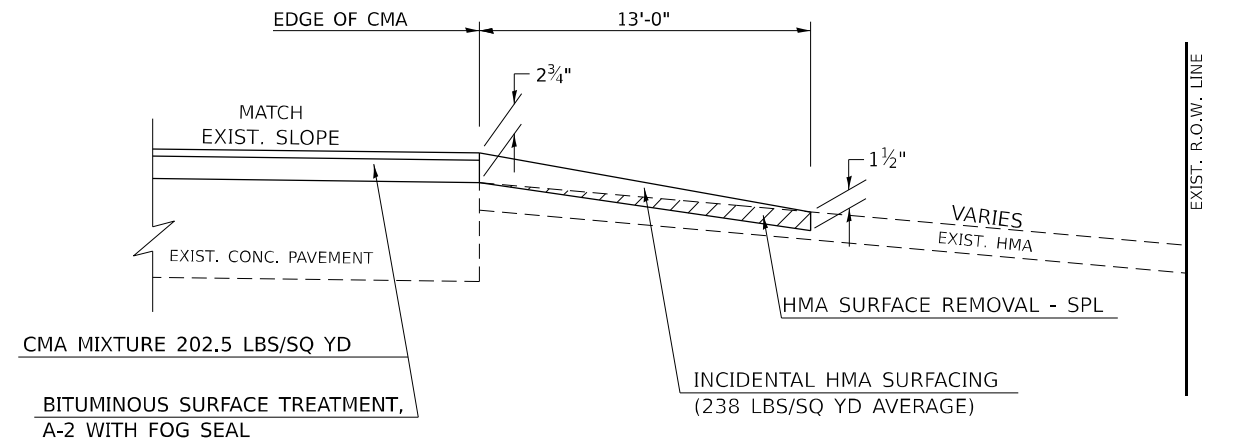
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| STA. 41+38.70 RT | STA. 102+09.68 RT |
| STA. 64+90.45 RT | STA. 104+38.36 RT |
| STA. 74+71.95 LT | STA. 107+79.79 RT |
| STA. 95+32.72 LT | STA. 110+81.01 RT |
| STA. 96+87.42 LT |                   |



**EXISTING HMA OR PCC ENTRANCE PCC APRON AND ENTRANCE REMOVAL**

ENTRANCE STATIONS

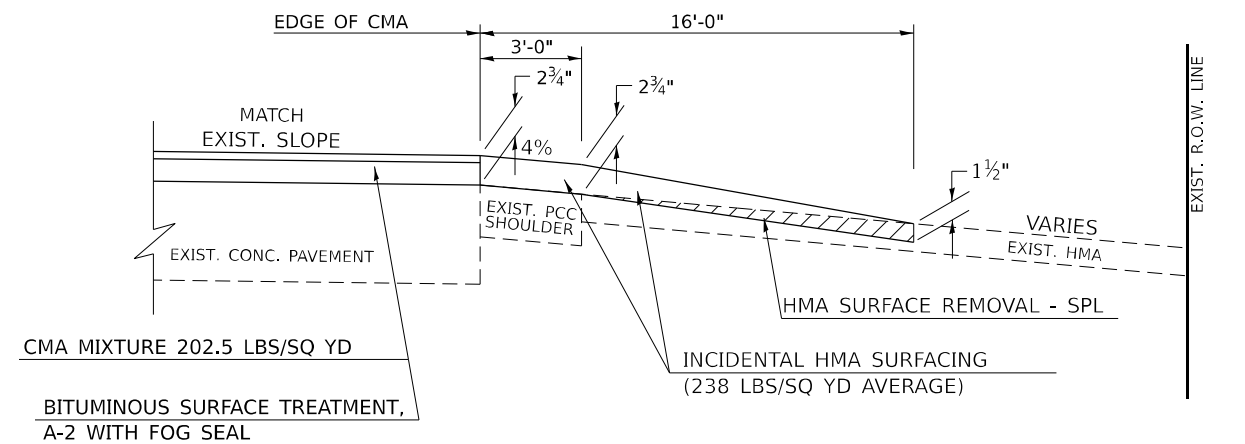
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|------------------|-------------------|
| STA. 42+25.77 RT | STA. 94+88.44 RT  |
| STA. 61+02.33 RT | STA. 112+80.00 RT |



**EXISTING HMA ENTRANCE**

ENTRANCE STATIONS

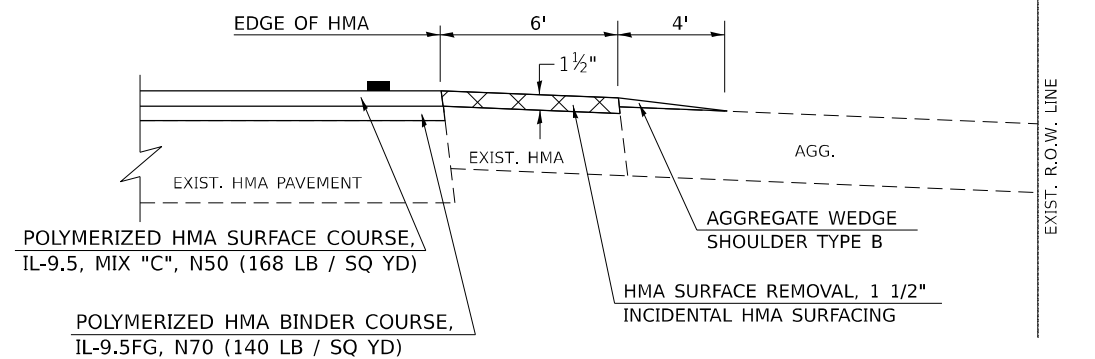
- STA. 76+19.74 RT



**EXISTING HMA ENTRANCE WITH EXISTING PCC SHOULDER**

ENTRANCE STATIONS

- STA. 87+04.14 RT



**EXISTING HMA ENTRANCE**

ENTRANCE STATIONS

- STA. 9+93.49 RT

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DRAWN - BAB	REVISED -	
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

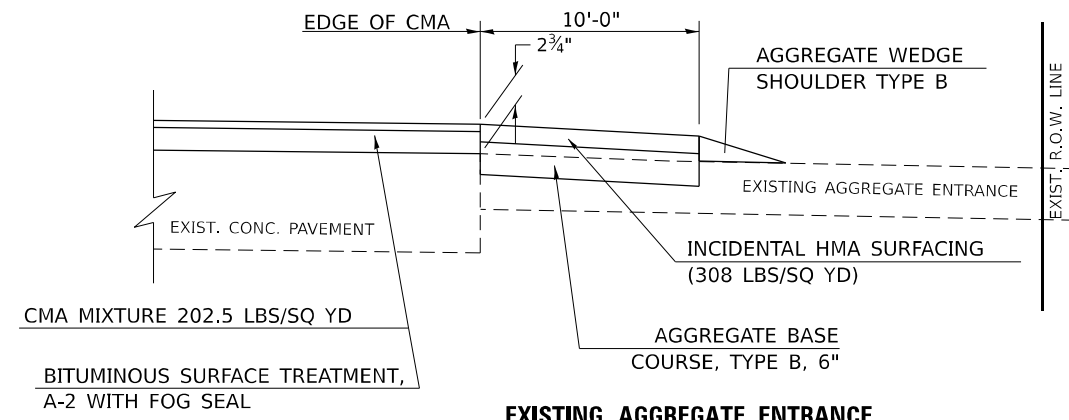
**PRIVATE / COMMERCIAL / FIELD ENTRANCES**

SCALE: N.T.S. SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 64
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	



**"3P" OR "3R" IMPROVEMENTS**  
(POLICY RESURFACING; BDE 53-4.02; 2¼" OR 2½" ON BARE CONCRETE)

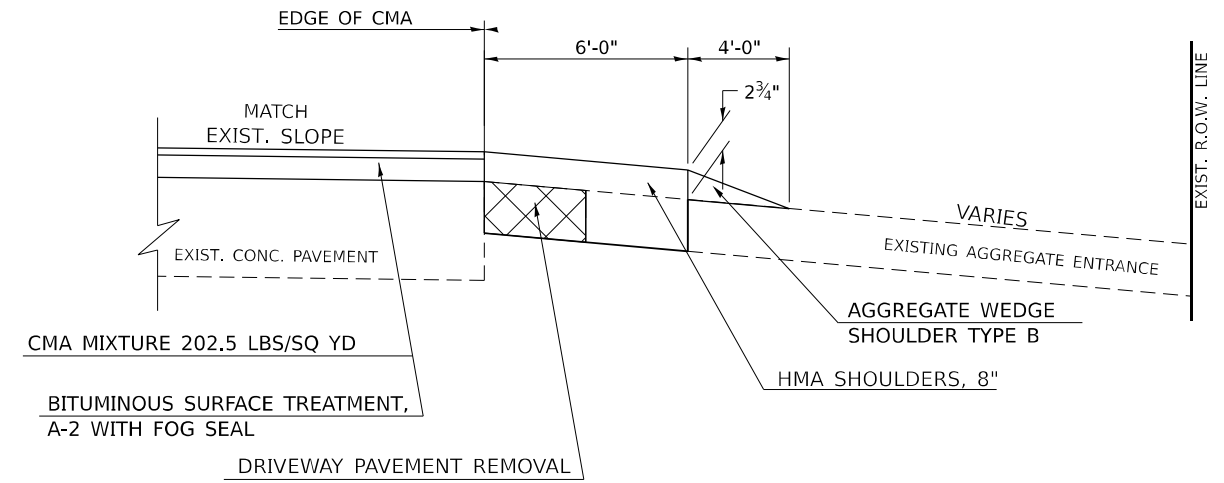


**EXISTING AGGREGATE ENTRANCE**

ENTRANCE STATIONS

- STA. 20+61.65 LT
- \* STA. 21+93.54 LT
- STA. 43+44.22 LT
- STA. 65+44.29 LT

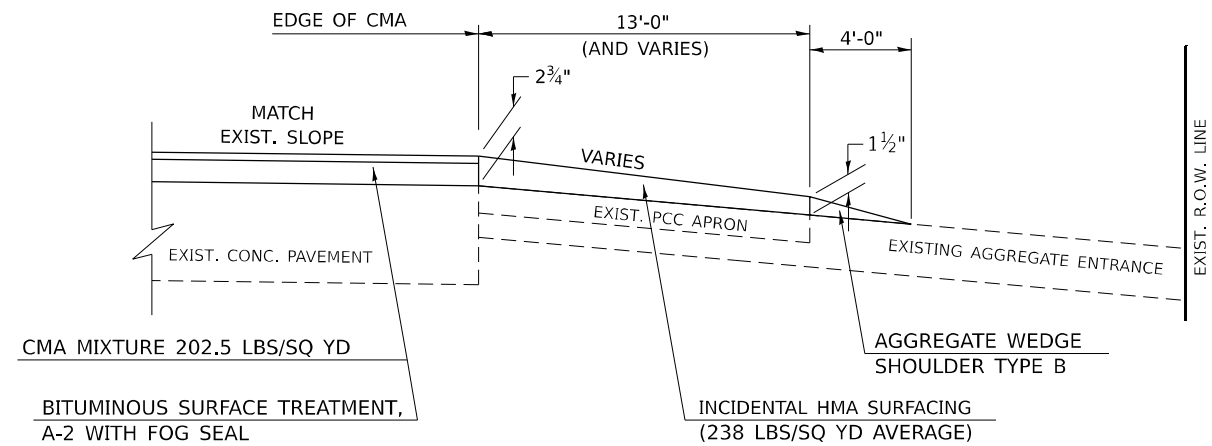
\* AGGREGATE WEDGE SHOULDER, TYPE B IS 10 FT WIDE



**EXISTING AGGREGATE ENTRANCE WITH ENTRANCE REMOVAL**

ENTRANCE STATIONS

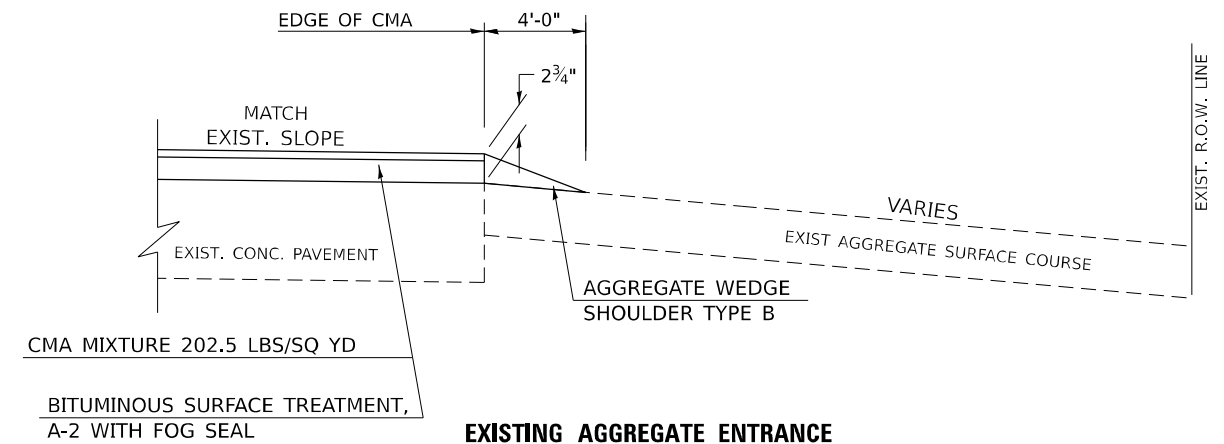
- STA. 43+65.22 RT



**EXISTING AGGREGATE ENTRANCE WITH PCC APRON**

ENTRANCE STATIONS

- |                  |                  |                   |
|------------------|------------------|-------------------|
| STA. 36+95.41 LT | STA. 68+38.79 LT | STA. 91+10.81 RT  |
| STA. 40+51.60 LT | STA. 74+35.48 LT | STA. 92+64.52 RT  |
| STA. 48+31.00 RT | STA. 76+33.27 LT | STA. 96+90.65 RT  |
| STA. 52+58.70 LT | STA. 76+90.86 LT | STA. 100+62.67 RT |
| STA. 59+77.79 LT | STA. 81+17.18 RT | STA. 121+06.60 LT |
| STA. 60+96.84 LT |                  | STA. 121+33.42 LT |



**EXISTING AGGREGATE ENTRANCE**

ENTRANCE STATIONS

- STA. 55+11.67 RT

MODEL: D:\default\FILE NAME: P:\2023\11\180577E-Benchmark\_Road (P556)\X\_CADD - DWG\04.7\_Trim\CAD\_Sheets\0570B05-rhd-detailed-Entrances.dgn



USER NAME = bbillhartz	DESIGNED - EKF	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - BAB	REVISED -
PLOT DATE = 12/12/2022	CHECKED - TBP	REVISED -
	DATE - 12/2022	REVISED -

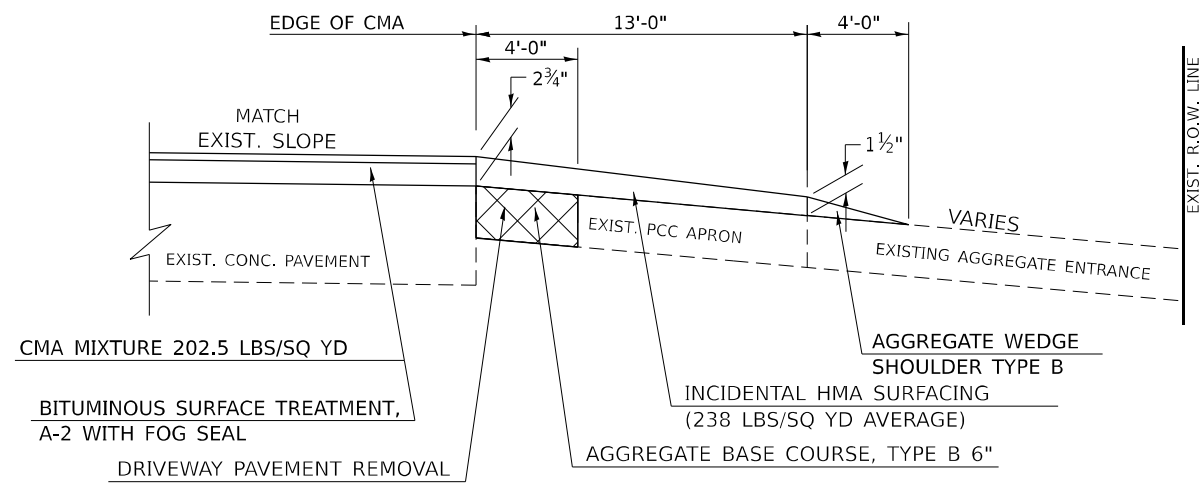
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRIVATE / COMMERCIAL / FIELD ENTRANCES**

SCALE: N.T.S. SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 65
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	

**"3P" OR "3R" IMPROVEMENTS**  
(POLICY RESURFACING; BDE 53-4.02; 2¼" OR 2½" ON BARE CONCRETE)

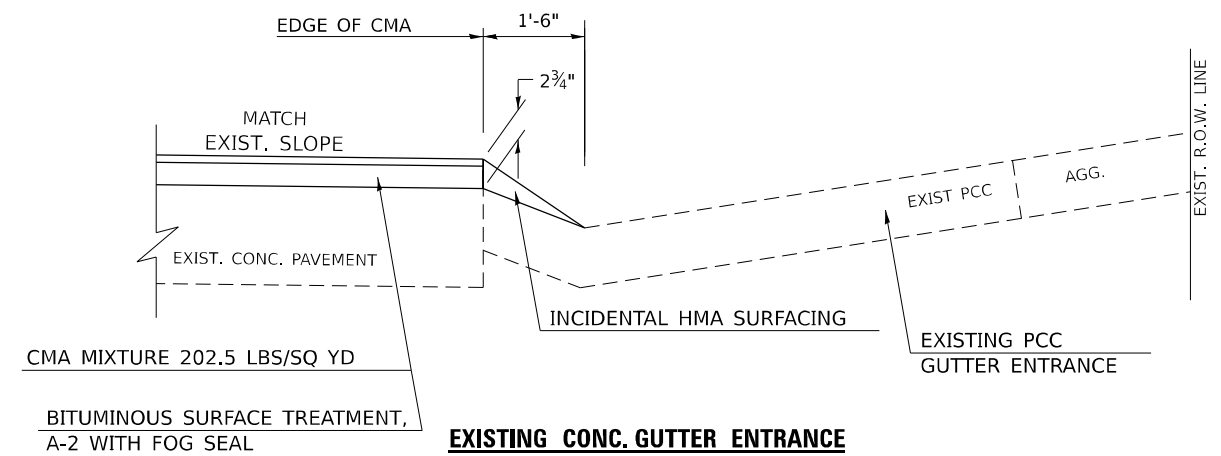


**EXISTING AGGREGATE ENTRANCE WITH PCC APRON AND ENTRANCE REMOVAL**

ENTRANCE STATIONS

- \* STA. 60+30.59 RT                  STA. 68+49.60 RT
- STA. 62+33.11 RT                  STA. 74+76.98 RT
- \* STA. 63+71.13 RT                  STA. 77+03.75 RT
- STA. 63+97.43 LT                  STA. 79+98.82 RT
- STA. 64+37.32 RT                  STA. 95+09.59 RT
- STA. 67+17.19 RT                  STA. 99+68.47 LT

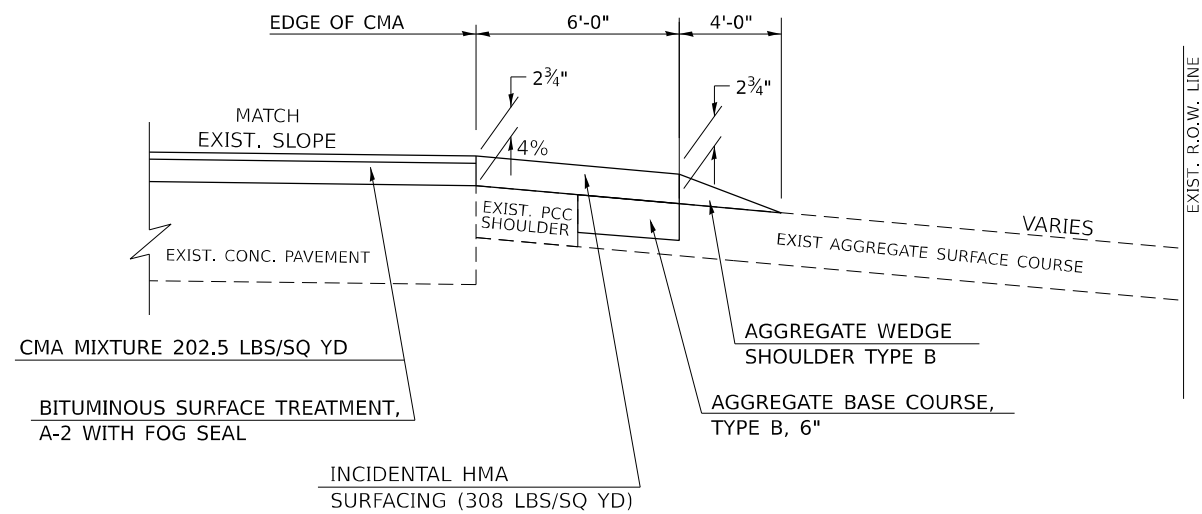
\* FIELD ENTRANCE



**EXISTING CONC. GUTTER ENTRANCE**

ENTRANCE STATIONS

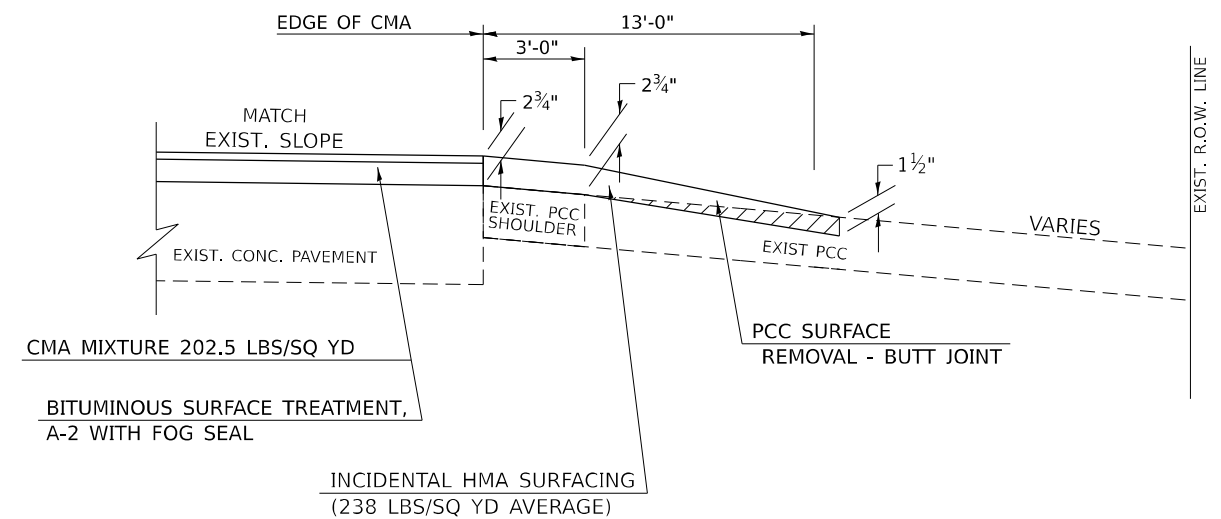
- STA. 44+92.42 LT
- STA. 45+84.93 LT
- STA. 69+42.16 LT
- STA. 70+38.66 RT
- STA. 71+61.50 RT



**EXISTING AGGREGATE ENTRANCE WITH EXISTING PCC SHOULDER**

ENTRANCE STATIONS

- STA. 93+29.18 LT



**EXISTING AGGREGATE ENTRANCE WITH EXISTING PCC SHOULDER**

ENTRANCE STATIONS

- STA. 82+96.52 LT

MODEL: D:\a\h\1\180577E-Benchmark\_Road (P555E)A.CADD - DWG\14.CADD - PLOT\30181180577E-Benchmark\_Road (P555E)A.CADD - SHEETS\0570B05-RHC-Detail-Entrances.dgn



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USER NAME = bbillhartz  
 DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022  
 PLOT SCALE = 40,000' / in.  
 PLOT DATE = 12/12/2022

REVISIONS:  
 REVISED -  
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 REVISED -

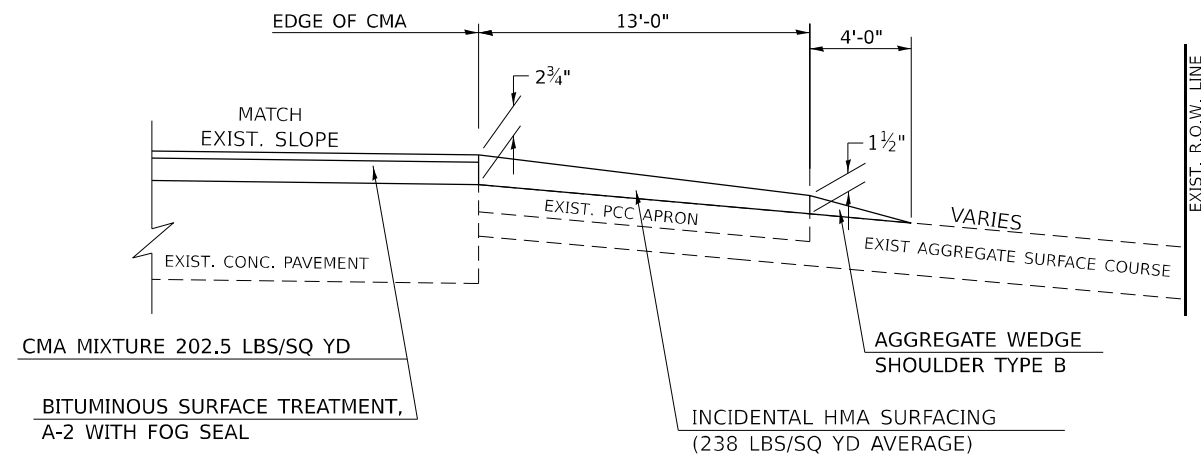
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRIVATE / COMMERCIAL / FIELD ENTRANCES**

SCALE: N.T.S.    SHEET 3 OF 5 SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

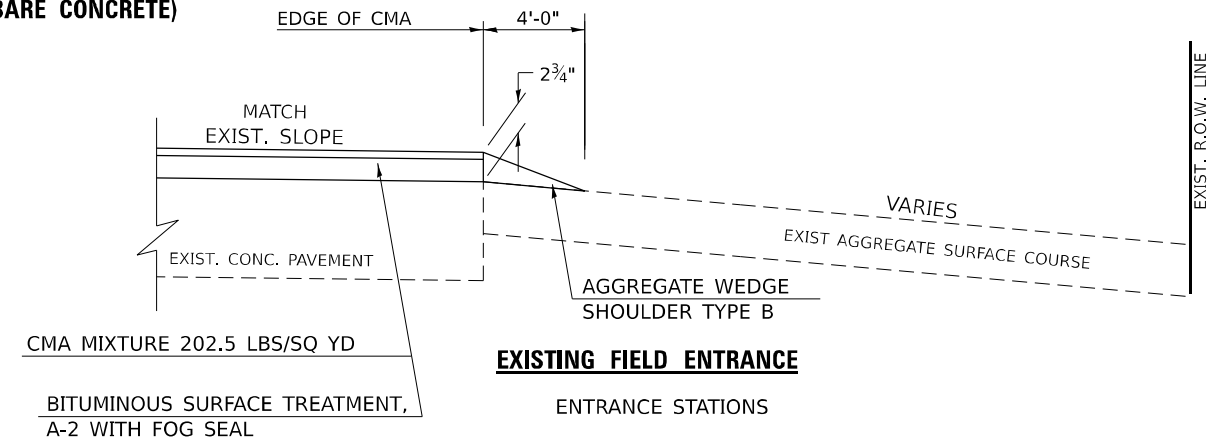
F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 66
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

**"3P" OR "3R" IMPROVEMENTS**  
**(POLICY RESURFACING; BDE 53-4.02; 2 1/4" OR 2 1/2" ON BARE CONCRETE)**



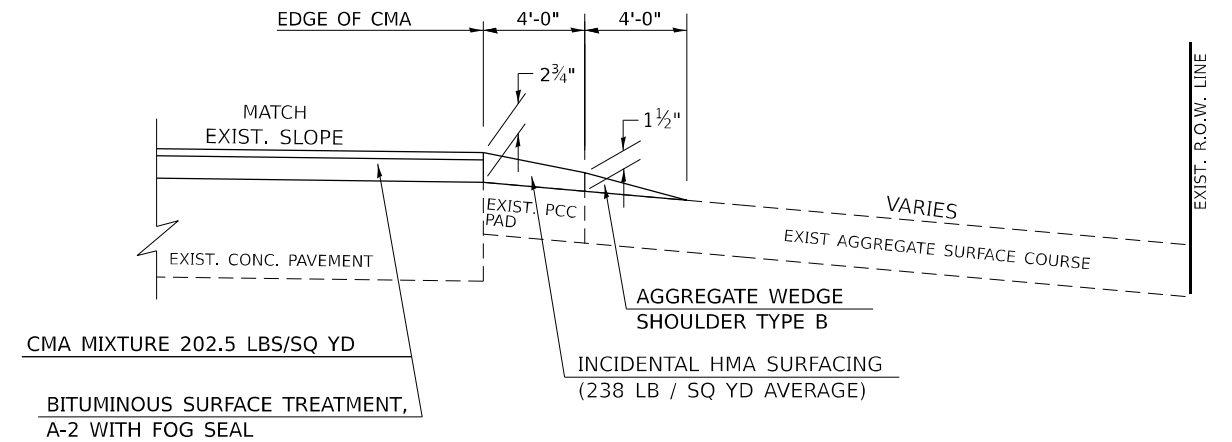
**EXISTING FIELD ENTRANCE WITH PCC APRON**

ENTRANCE STATIONS  
 STA. 57+51.50 LT  
 STA. 84+41.96 LT



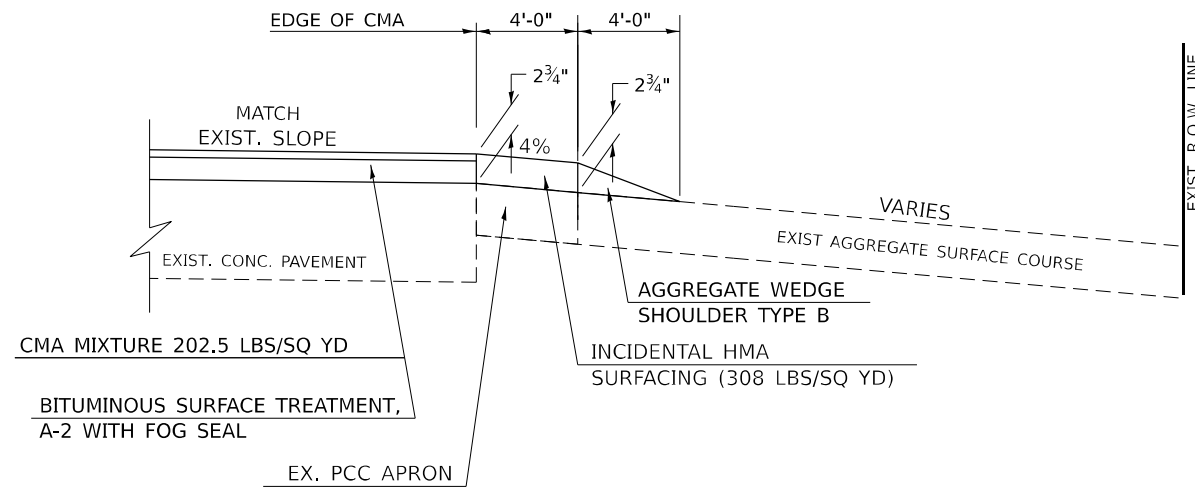
**EXISTING FIELD ENTRANCE**

ENTRANCE STATIONS  
 STA. 22+89.28 RT      STA. 58+73.56 RT  
 \* STA. 30+31.48 RT  
 \* WITH HMA SECTION



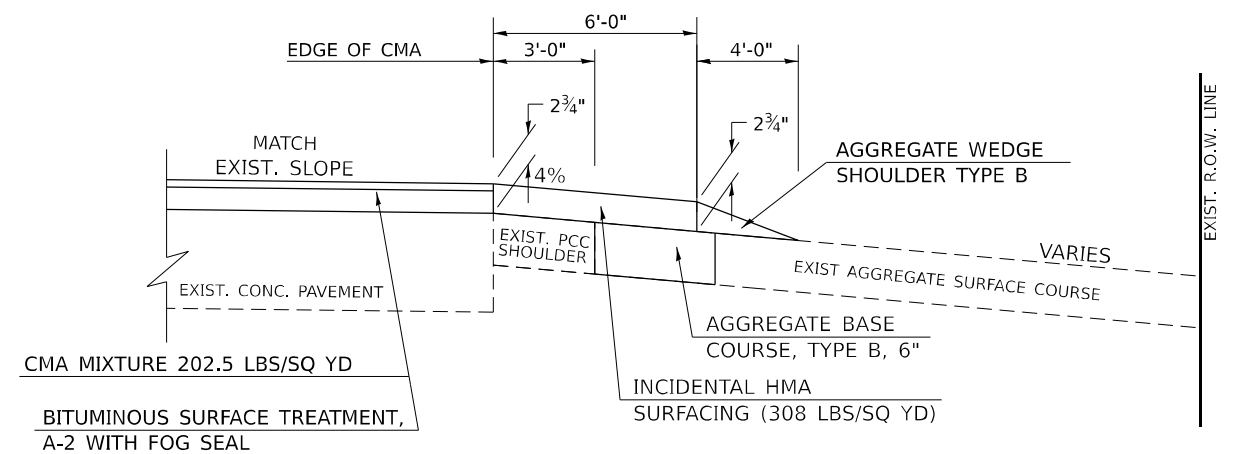
**EXISTING FIELD ENTRANCE WITH ENTRANCE REMOVAL**

ENTRANCE STATIONS  
 \* STA. 35+25.05 RT      STA. 101+70.53 LT  
 STA. 48+35.45 LT  
 \* WITH HMA SECTION



**EXISTING FIELD ENTRANCE WITH ENTRANCE REMOVAL AND PROPOSED HMA SHOULDER**

ENTRANCE STATIONS  
 STA. 51+79.47 LT  
 STA. 57+17.64 LT



**EXISTING FIELD ENTRANCE WITH EXISTING PCC SHOULDER**

ENTRANCE STATIONS  
 STA. 83+11.69 RT

MODEL: D:\default\FILE NAME: P:\2023\11\180577E-Bemarrack\_Road (P556) \V\_CADD - DWG\3.7\_Trim\CAD\_Sheets\DS70B05-rhc-detailed-FldEntrances.dgn



USER NAME = bbillhartz	DESIGNED - EKF	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - BAB	REVISED -
PLOT DATE = 12/12/2022	CHECKED - TBP	REVISED -
	DATE - 12/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PRIVATE / COMMERCIAL / FIELD ENTRANCES**

SCALE: N.T.S.      SHEET 4 OF 5 SHEETS      STA. TO STA.

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 67
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. ANY NECESSARY WORK BEHIND THE HMA SHOULDER OR THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.
4. AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.
5. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 12" (300 mm) WIDER THAN THE SURFACE DIMENSIONS AS SHOWN ABOVE.
6. EXISTING FIELD ENTRANCES OF AGGREGATE OR EARTH WITH NO HMA APRON SHALL NOT RECEIVE A NEW HMA APRON WITHOUT PROPER APPROVAL THROUGH THE BUREAU OF OPERATIONS "POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS".
7. TO ASSURE APPROPRIATE ACCESS POLICIES ARE FOLLOWED ALL NEW ACCESS SHALL BE APPLIED FOR THROUGH THE BUREAU OF OPERATIONS PERMIT APPLICATION PROCESS. PLAN PREPARATION MEMORANDUMS 40-09 ALONG WITH DISTRICT PROJECT IMPLEMENTATION MEMORANDUM 104/01 DISCUSS THIS PROCEDURE.
8. EARTH EXCAVATION FOR THE CONSTRUCTION OF THE AGGREGATE BASE COURSE SHALL BE INCLUDED IN COST PER SQUARE-YARD FOR AGGREGATE BASE COURSE, TYPE B, 6".

RURAL ENTRANCE DESIGN STANDARDS (PPM 40-09)															
DESIGN ELEMENT	NEW CONSTRUCTION & 3R with CONSTRUCTION						3R w/out RECONSTRUCTION, 3P, SMART & CM								
	NONCOMMERCIAL			FIELD W/FARM IMPLEMENTS			COMMERCIAL			NONCOMMERCIAL			COMMERCIAL		
	PRIVATE & FIELD			FIELD W/FARM IMPLEMENTS			COMMERCIAL			PRIVATE & FIELD			COMMERCIAL		
	min.	des.	max.	min.	max.	min.	des.	max.	min.	des.	max.	min.	des.	max.	
SURFACE WIDTH (FT)	12	16	24	24	30	1 LANE, 1 WAY			1 LANE, 1 WAY			1 LANE, 1 WAY			
						14	16	24							
						2 LANE, 2 WAY			2 LANE, 2 WAY			2 LANE, 2 WAY			
						24	30	35	resurface existing configuration; existing aggregate or earth entrances shall have the continuation of aggregate shoulders placed behind them						
RADIUS (FT)	15	25	40	30		20	30	50							
SHOULDER WIDTH (FT)	2	2		2		1	3								
SHOULDER SLOPE (%)	2	4	6	4		2	4	6							
ENTRANCE GRADE (%)	0	2 to 5	10 or 12	2 to 5	10 or 12	0	2 to 5	8 or 10							
SIDE SLOPE (FT)	1:4	1:6	1:10	1:4	1:6	1:4	1:6	1:10							
<b>SURFACE TYPE</b>															
INCIDENTAL HMA SURFACING (INCH)		2		2		3 or 4			taper from hma resurfacing thickness (2 1/2", 2 1/4" or 1 1/2") to 1 1/2" to minimize aggregate shoulder						
AGGREGATE SURFACE COURSE, TYPE B (INCH)		6		6		8			if applicable, use items: Preparation of Base & Aggregate Base Repair; see PPM 30-02						
PCC DRIVEWAY PAVEMENT (INCH)		6						6 or 8							

MODEL: D:\p\h\...  
 FILE NAME: P:\2018\180577E-Benchmark, Road (P556) \V\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rhd-detailed-FldEntrances.dgn

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USER NAME = bbillhartz	DESIGNED - EKF	REVISED -
	DRAWN - BAB	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - TBP	REVISED -
PLOT DATE = 12/12/2022	DATE - 12/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

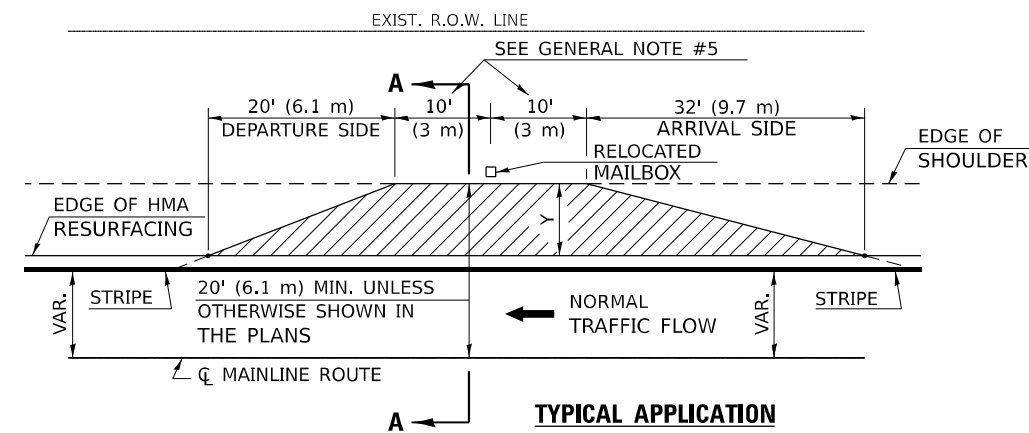
**PRIVATE / COMMERCIAL / FIELD ENTRANCES**

SCALE: N.T.S. SHEET 5 OF 5 SHEETS STA. TO STA.

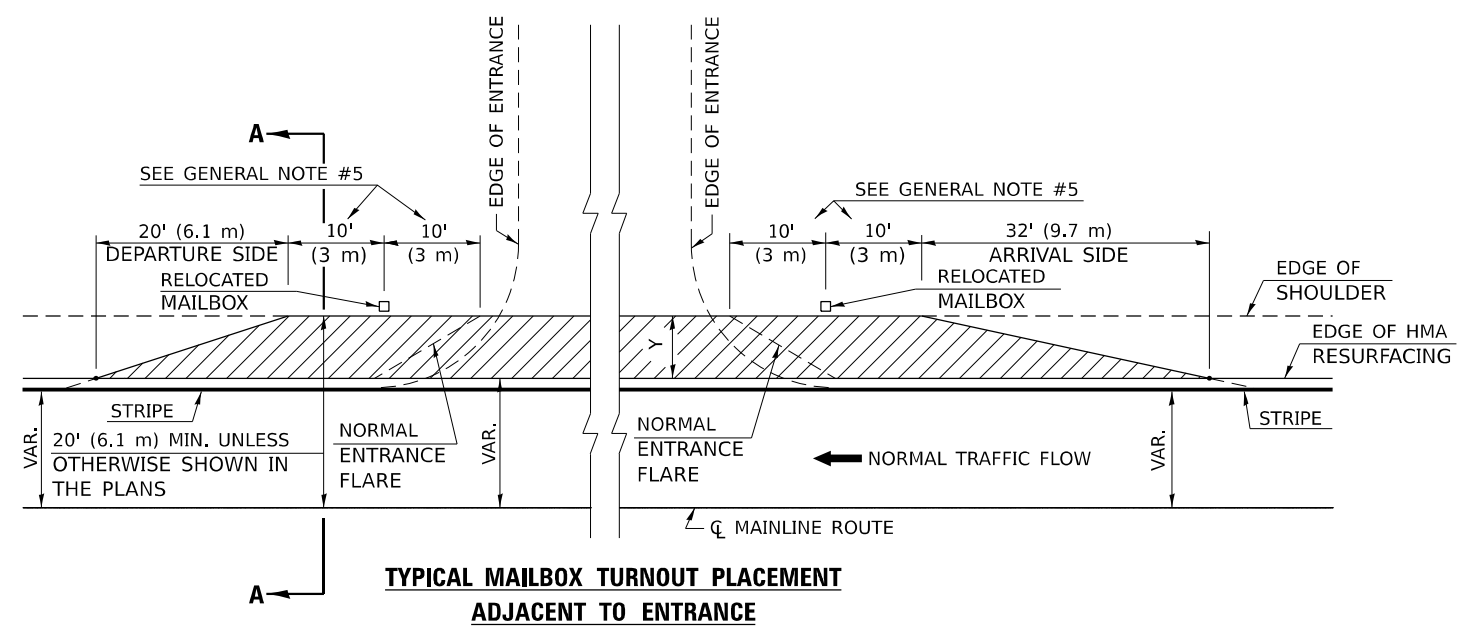
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	68
			CONTRACT NO. 70B05	
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. AGGREGATE BASE COURSE, TYPE B, 6" (150) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED MAILBOX TURNOUTS. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ALL EXISTING MAILBOX TURNOUTS OR TO CONSTRUCT NEW MAILBOX TURNOUTS WHERE NONE NOW EXISTS.
3. ANY NECESSARY WORK BEHIND THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
4. THE TEMPORARY RELOCATION OF EXISTING MAILBOXES SHALL BE IN ACCORDANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS.
5. WHEN MORE THAN ONE RELOCATED MAILBOX IS INCLUDED IN A PARTICULAR LOCATION THE TWO 10' (3 m) DIMENSIONS AS SHOWN ABOVE SHALL BE FROM THE END MAILBOX.
6. CROSS SLOPE SHALL BE AS SHOWN ON THE STATION CROSS SECTIONS AND/OR AS DIRECTED BY THE ENGINEER.  
MINIMUM 4% (1/2"/') DESIRABLE; MAXIMUM 8% (1"/')
7. WHEN MAILBOX TURNOUTS ARE CONSTRUCTED ADJACENT TO FIELD ENTRANCES, THE WIDTH OF THE INCIDENTAL HMA SURFACING CONSTRUCTED FOR THE FIELD ENTRANCE SHALL MATCH THE WIDTH OF THE PROPOSED MAILBOX TURNOUT SURFACING.
8. THE TOTAL SHOULDER WIDTH, 2.4 m (8') MINIMUM, SHALL BE PAVED BETWEEN SIDEROADS ENTRANCES AND/OR MAILBOX TURNOUTS AT LOCATIONS WHERE THE DISTANCE BETWEEN RADIUS OR TAPER CONTROL POINTS IS LESS THAN 15.0 m (50').
9. MAILBOXES SHALL BE MOUNTED SUCH THAT THE FACE OF THE MAILBOX IS 6" (150 mm) TO 12" (300 mm) AND THE POST A MINIMUM OF 24" (600 mm) FROM THE EDGE OF THE TURNOUT SURFACING.
10. EARTH EXCAVATION FOR THE CONSTRUCTION OF THE AGGREGATE BASE COURSE SHALL BE INCLUDED IN COST PER SQUARE-YARD FOR AGGREGATE BASE COURSE, TYPE B, 6".
11. IF THE PROPOSED IMPROVEMENTS FOR THE MAILBOX TURNOUTS IMPEDE THE EXISTING DITCH DRAINAGE AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL BE REQUIRED TO PERFORM MINOR DITCH GRADING TO RE-ESTABLISH THE DRAINAGE TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE CONTRACT.



WIDTH OF SHOULDER	4'-0" - 8'-0" (1.2 m - 2.4 m)
WIDTH OF TURNOUT "Y"	6'-0" (2.4 m)



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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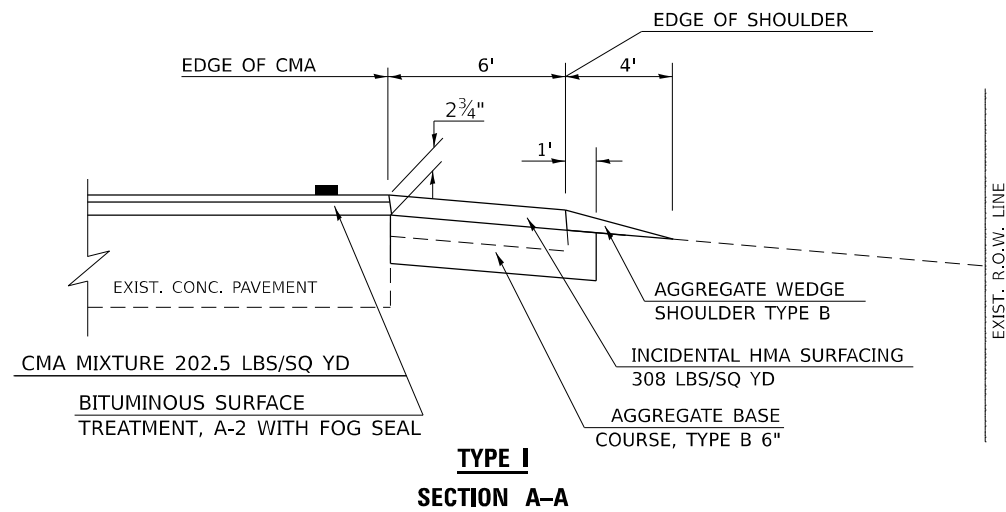
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 DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

REVISED -  
 REVISED -  
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 REVISED -

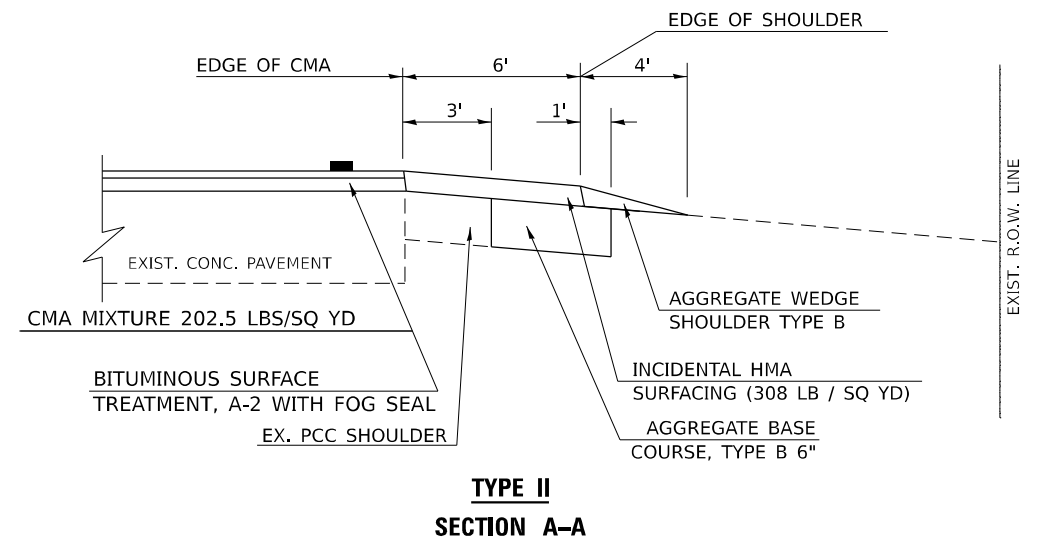
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MAILBOX TURNOUT (RURAL)  
 SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

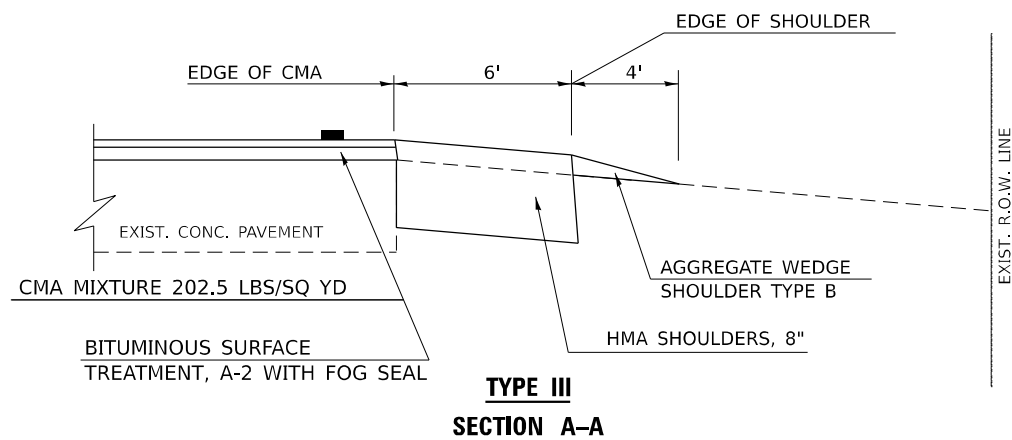
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	KRS-2)	VERMILION	111	69
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



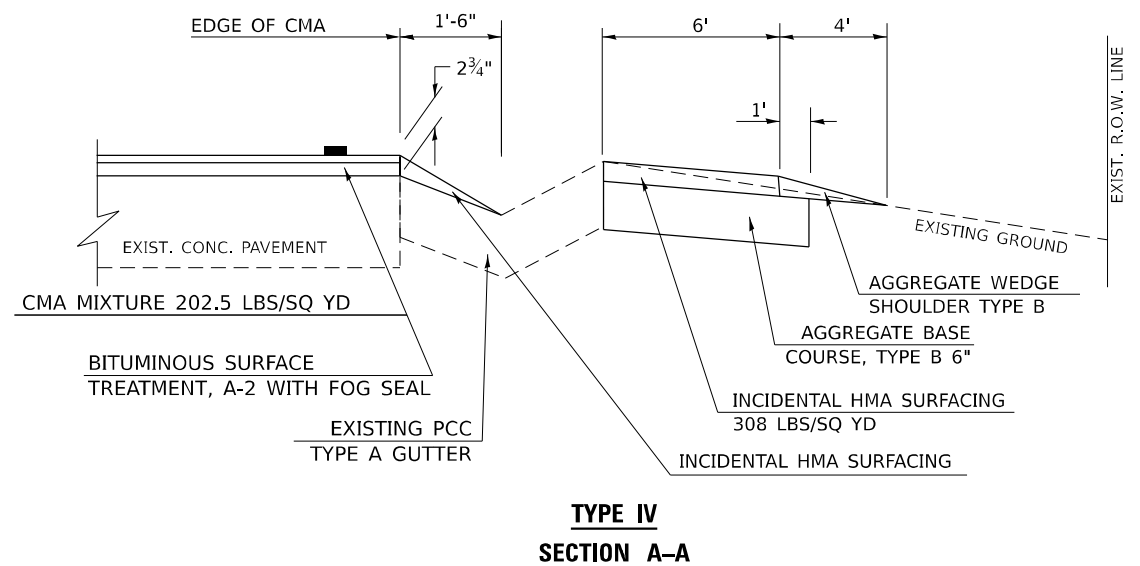
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SECTION A-A**



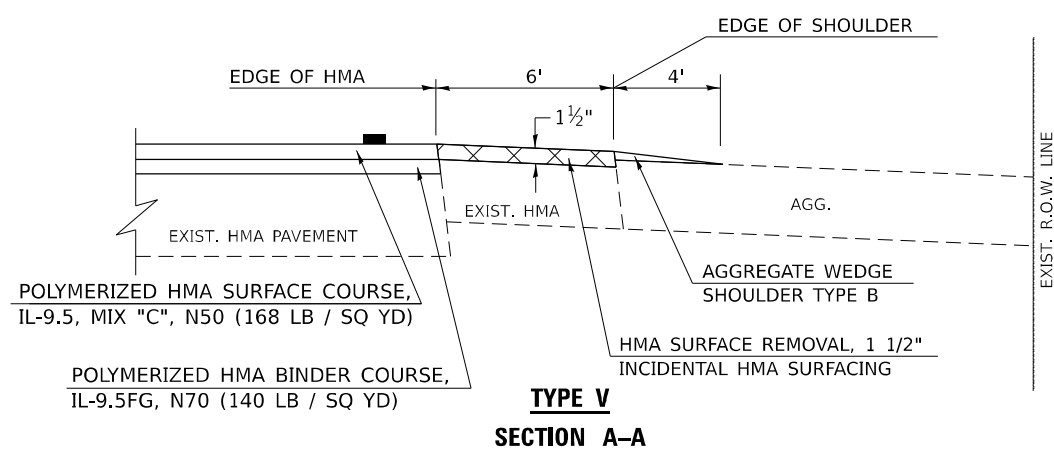
**TYPE II  
SECTION A-A**



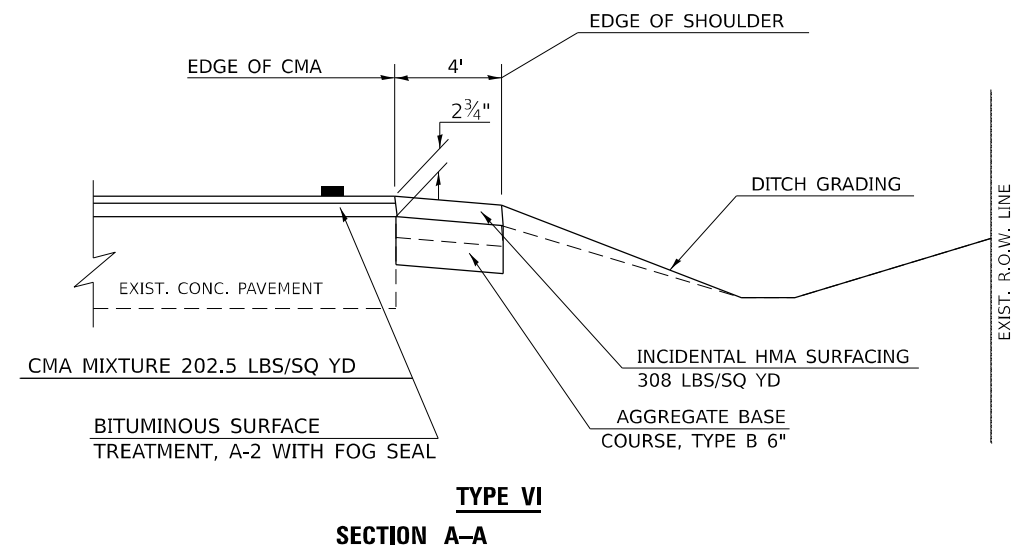
**TYPE III  
SECTION A-A**



**TYPE IV  
SECTION A-A**



**TYPE V  
SECTION A-A**



**TYPE VI  
SECTION A-A**

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 LICENSE NO: 184-001220  
 USER NAME = bbillhartz  
 PLOT SCALE = 40,000' / in.  
 PLOT DATE = 12/12/2022

DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAILBOX TURNOUT (RURAL)**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

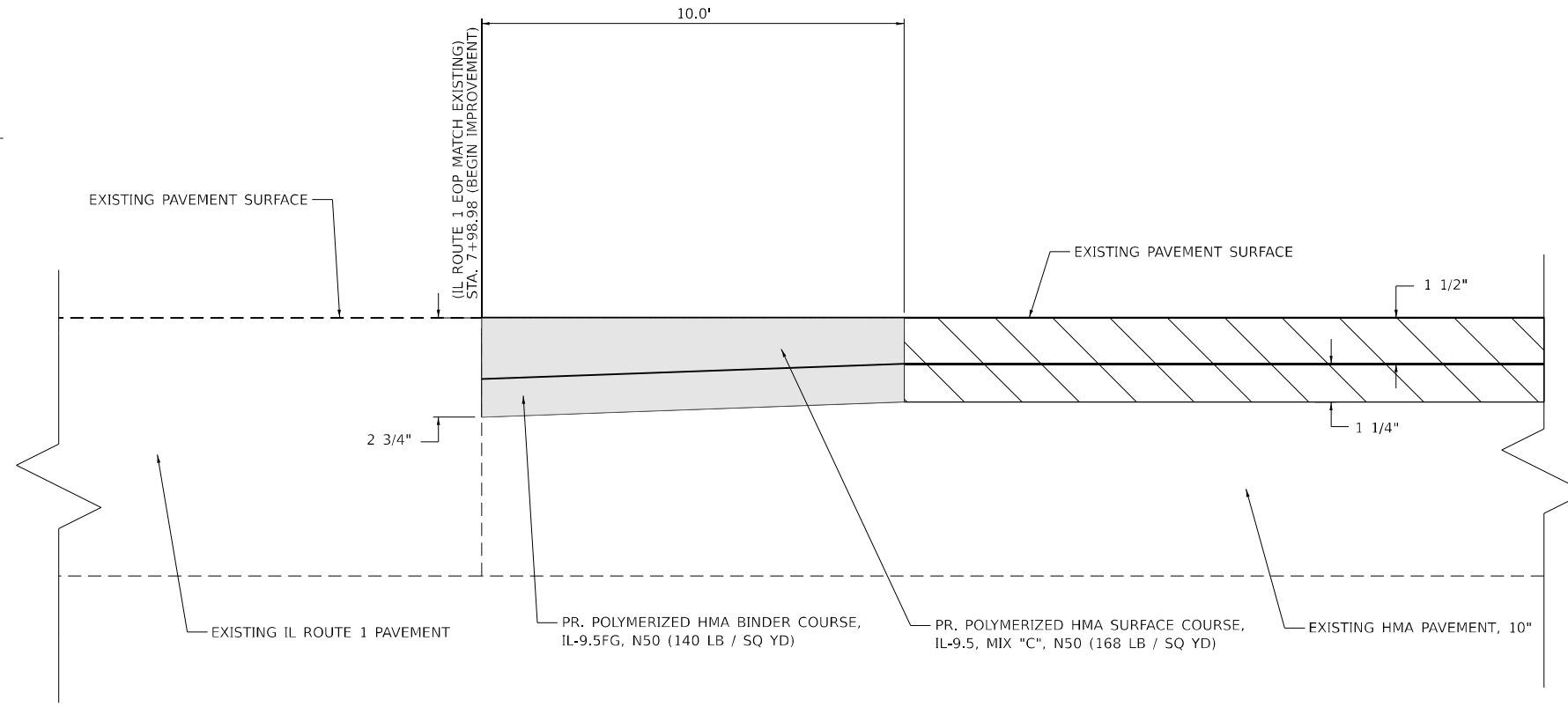
F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 70
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	

HMA SURFACE REMOVAL, 2 3/4"

HMA SURFACE REMOVAL - BUTT JOINT

SCALE

N.T.S.



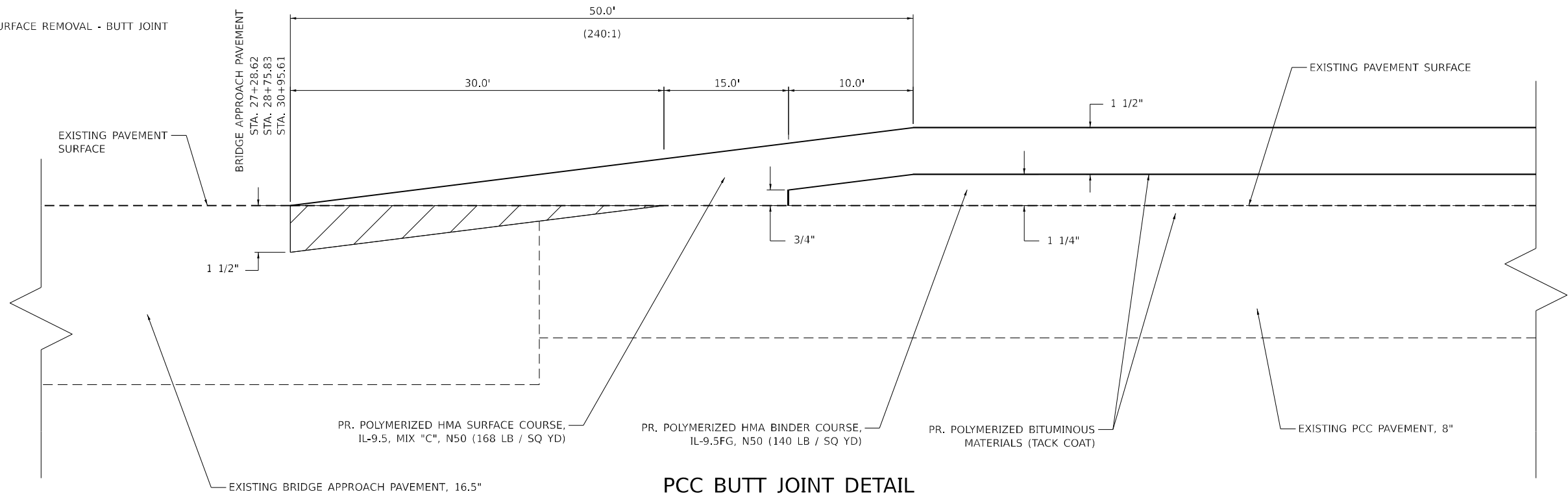
HMA BUTT JOINT DETAIL

STA. 7+98.98

PCC SURFACE REMOVAL - BUTT JOINT

SCALE

N.T.S.



PCC BUTT JOINT DETAIL  
 SN 092-0172 (E. / W. SIDE)  
 SN 092-0173 (W. SIDE)

MODEL: D:\p\1\2023\11\180577E-BIenmark\_Road (P55E)\V\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-hic-Butt Joint Detail\_01.dgn  
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USER NAME	= bbillhartz	DESIGNED -	EKF	REVISED -	
DRAWN	= BAB	REVISIONS		REVISED -	
CHECKED	= TBP	REVISIONS		REVISED -	
DATE	= 12/2022	REVISIONS		REVISED -	

PLOT SCALE	= 40,000' / in.
PLOT DATE	= 12/12/2022

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BUTT JOINT DETAILS

SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

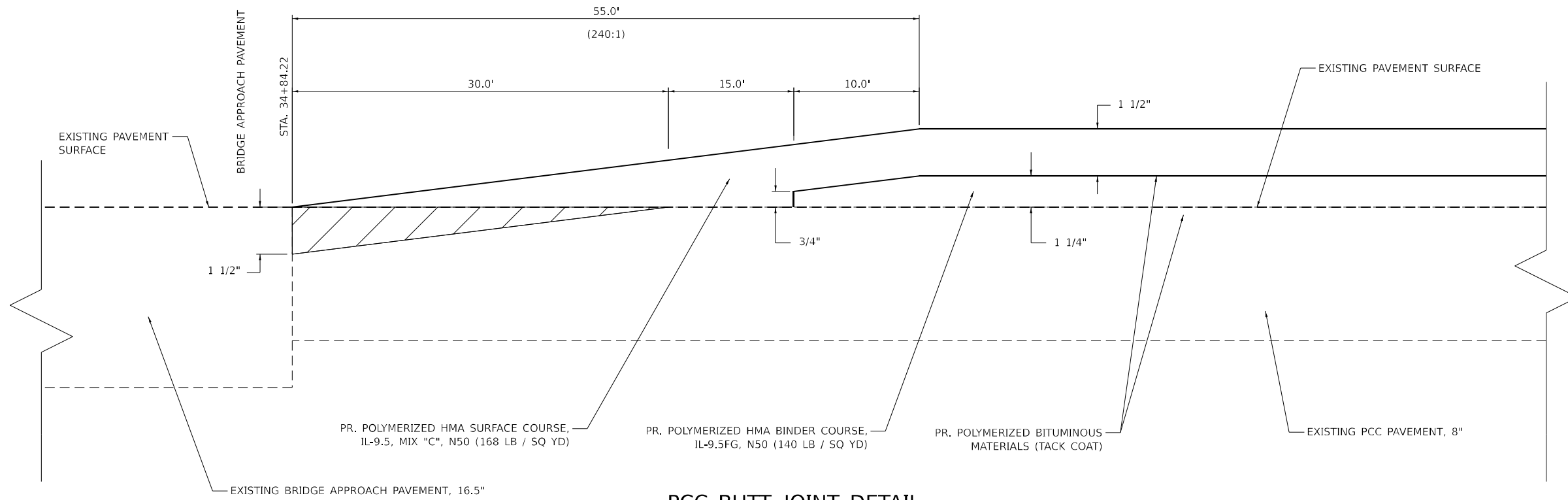
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	71
CONTRACT NO. 70B05				

ILLINOIS FED. AID PROJECT

 PCC SURFACE REMOVAL - BUTT JOINT

**SCALE**

N.T.S.



**PCC BUTT JOINT DETAIL  
SN 092-0173 (E. SIDE)**

MODEL: P:\default...  
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 LICENSE NO: 184-001220

USER NAME = bbillhartz	DESIGNED - EKF	REVISED -
DRAWN - BAB	REVISED -	
PLOT SCALE = 40,000' / in.	CHECKED - TBP	REVISED -
PLOT DATE = 12/12/2022	DATE - 12/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT DETAILS**

SCALE: N.T.S. SHEET 2 OF 4 SHEETS STA. TO STA.

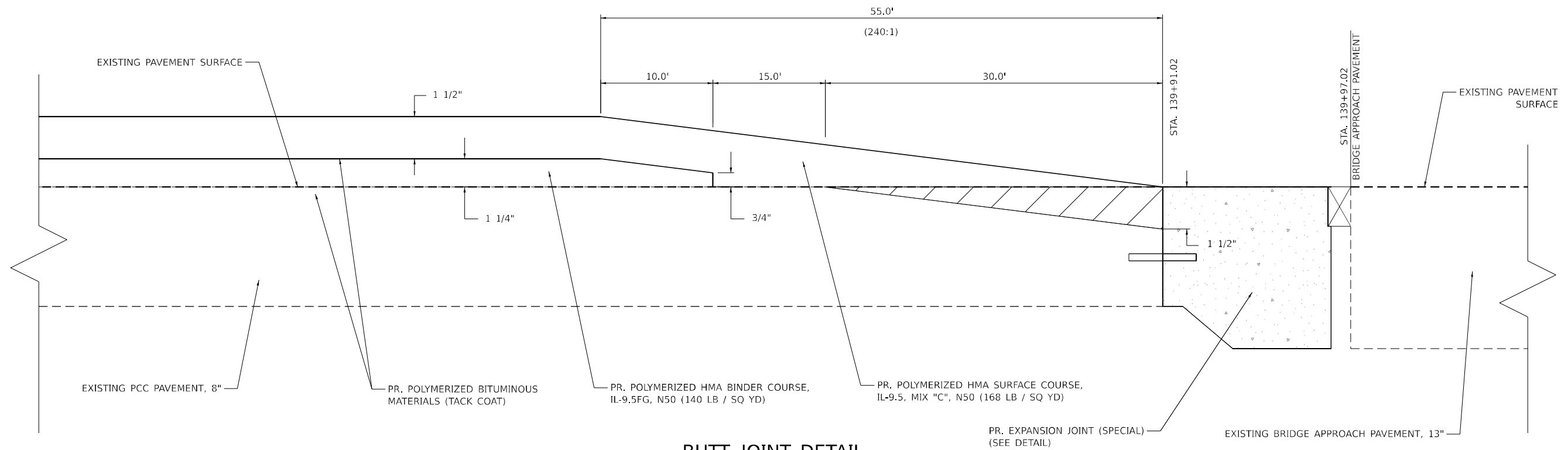
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	72
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



 PCC SURFACE REMOVAL - BUTT JOINT

**SCALE**

N.T.S.



**BUTT JOINT DETAIL**  
SN 092-0193 (W. APPROACH)

MODEL: D:\p\11\110577E-Benchmark\_Road (P556)14.CADD - DWG\1.7\_Trim\CAD\_Sheets\0570B05-shc-Butt Joint Detail\_03.dgn  
 FILE NAME: P:\2018\110577E-Benchmark\_Road (P556)14.CADD - DWG\1.7\_Trim\CAD\_Sheets\0570B05-shc-Butt Joint Detail\_03.dgn



**TWM, INC.**  
 WWW.TWM-INC.COM  
 IL DESIGN FIRM  
 LICENSE NO: 184-001220

USER NAME =	bbillhartz
DESIGNED -	EKF
DRAWN -	BAB
CHECKED -	TBP
DATE -	12/2022

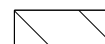

REVISED -	
REVISED -	
REVISED -	
REVISED -	

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

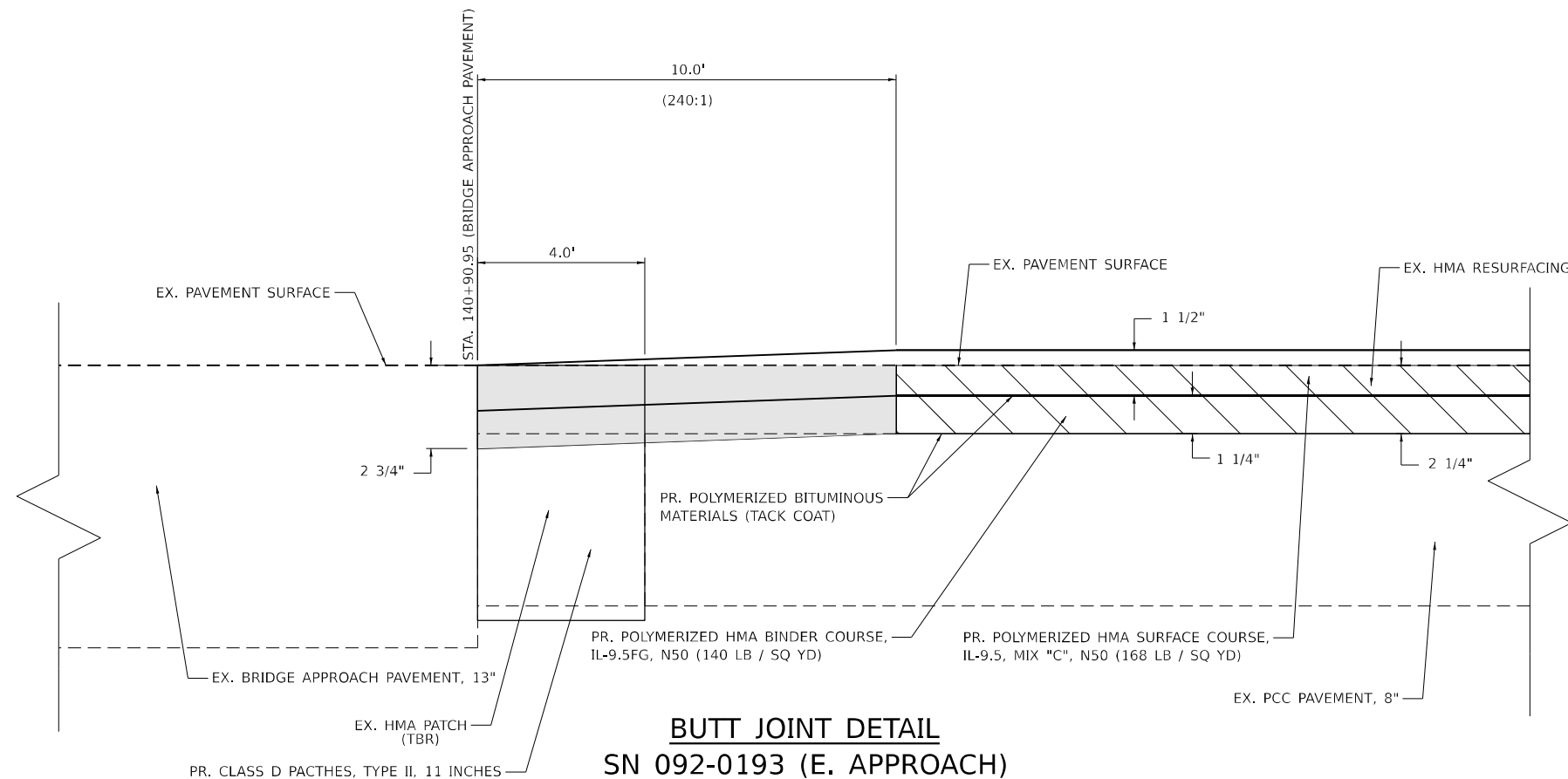
**BUTT JOINT DETAILS**

SCALE: N.T.S.    SHEET 3    OF 4    SHEETS    STA.    TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	73
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

-  HMA SURFACE REMOVAL, 2 1/4"
-  HMA SURFACE REMOVAL - BUTT JOINT \*

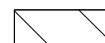

\* INCLUDES REMOVAL OF EXISTING PCC PAVEMENT AS SHOWN IN THE DETAIL.



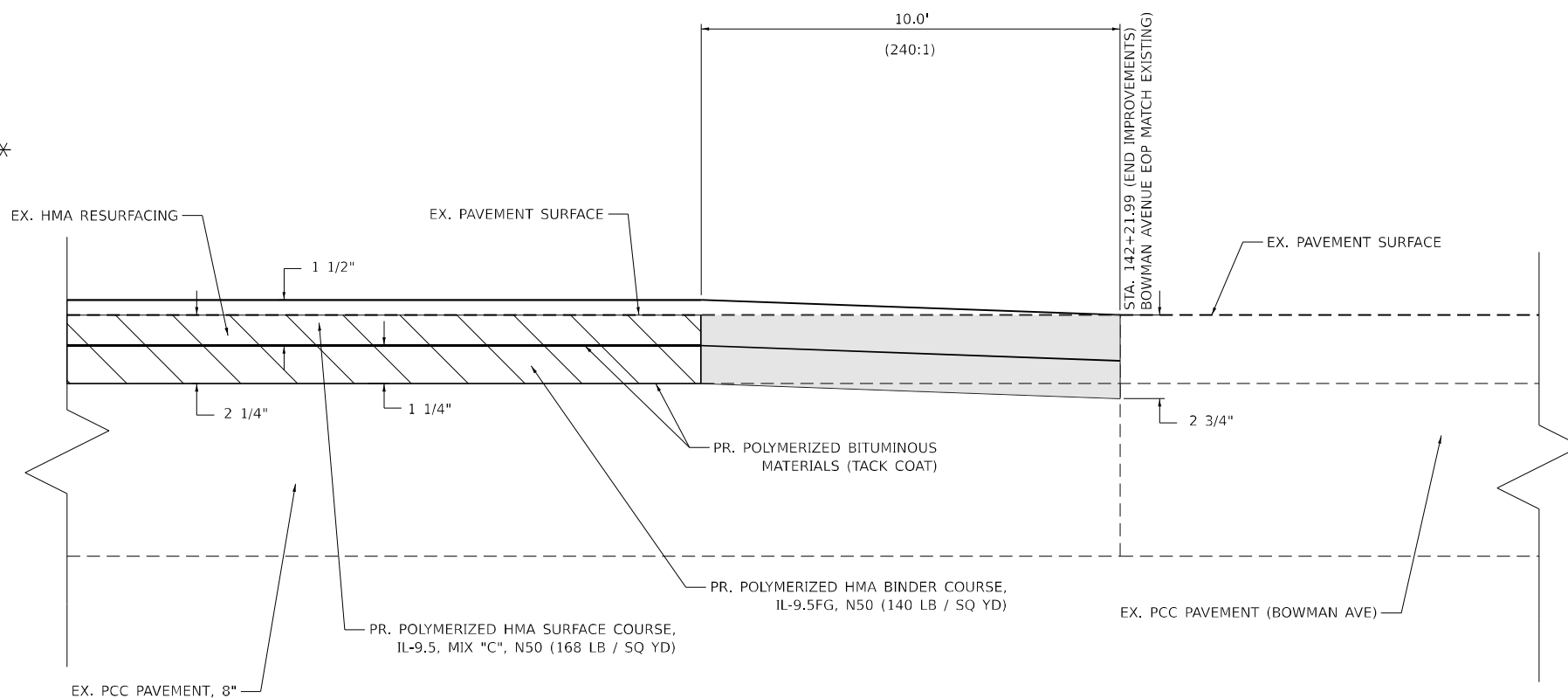
**BUTT JOINT DETAIL**  
SN 092-0193 (E. APPROACH)

**SCALE**

N.T.S.

-  HMA SURFACE REMOVAL, 2 1/4"
-  HMA SURFACE REMOVAL - BUTT JOINT \*

\* INCLUDES REMOVAL OF EXISTING PCC PAVEMENT AS SHOWN IN THE DETAIL.



**BUTT JOINT DETAIL**

STA. 142+21.99

**SCALE**

N.T.S.

MODEL: D:\p\11\110577E-Bismarck\_Road (P55E)\V\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-hic-Butt Joint Details\_04.dgn  
 FILE NAME: P:\2018\110577E-Bismarck\_Road (P55E)\V\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-hic-Butt Joint Details\_04.dgn



**TWM, INC.**  
 WWW.TWM-INC.COM  
 IL DESIGN FIRM  
 LICENSE NO: 184-001220

USER NAME = bbillhartz  
 DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

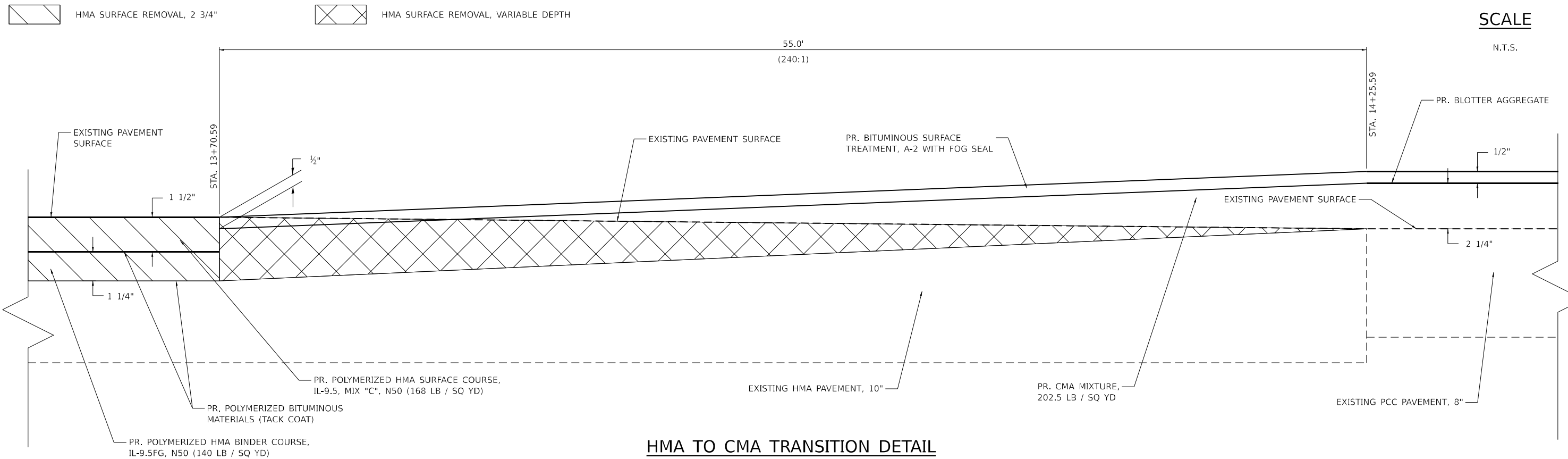
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

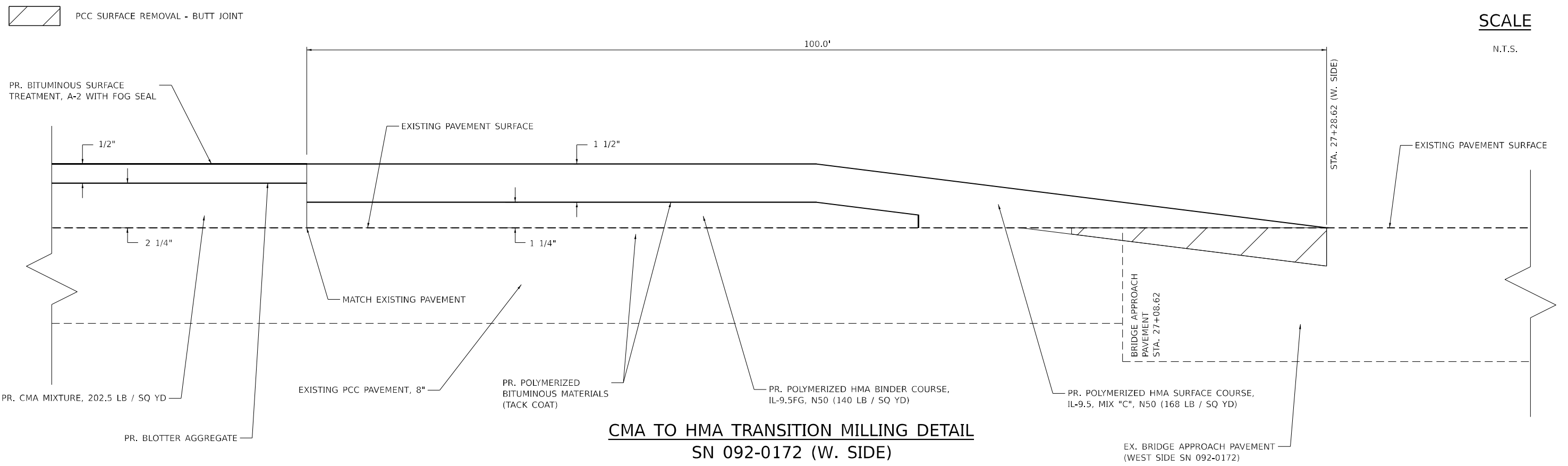
**BUTT JOINT DETAILS**

SCALE: N.T.S. SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	74
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



**HMA TO CMA TRANSITION DETAIL**



**CMA TO HMA TRANSITION MILLING DETAIL**  
**SN 092-0172 (W. SIDE)**  
 (SEE PCC BUTT JOINT DETAIL FOR MORE INFORMATION)

MODEL: D:\default\TWM\Projects\70B05\70B05-HMA-Milling Transition Details\_01.dgn  
 FILE NAME: P:\2018\180577E-Benchmark\_Road\PS&E\1\4\CADD-DWG\4.7\_Trim\CAD\_Sheets\0570B05-HMA-Milling Transition Details\_01.dgn



**TWM, INC.**  
 WWW.TWM-INC.COM  
 IL DESIGN FIRM  
 LICENSE NO: 184-001220

USER NAME = bbillhartz  
 PLOT SCALE = 40,000' / in.  
 PLOT DATE = 12/12/2022

DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

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

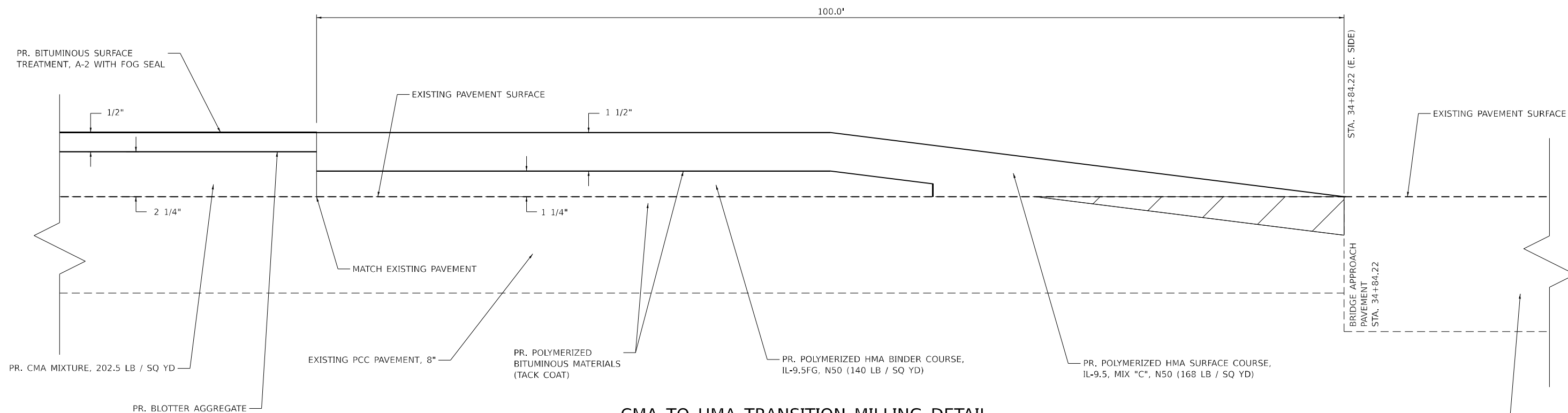
**MILLING TRANSITION DETAILS**  
 SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 75
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

 PCC SURFACE REMOVAL - BUTT JOINT

**SCALE**

N.T.S.



**CMA TO HMA TRANSITION MILLING DETAIL**  
**SN 092-0173 (E. SIDE)**

(SEE PCC BUTT JOINT DETAIL FOR MORE INFORMATION)

MODEL: D:\p\11\110577E-Benchmark\_Road (P556)14.CADD - DWG\1.7 Tran\CAD\_Sheets\0570B05-hic-Milling Transition Details\_02.dgn  
 FILE NAME: P:\2018\110577E-Benchmark\_Road (P556)14.CADD - DWG\1.7 Tran\CAD\_Sheets\0570B05-hic-Milling Transition Details\_02.dgn



**TWM, INC.**  
 www.twm-inc.com  
 IL DESIGN FIRM  
 LICENSE NO: 184-001220

USER NAME = bbillhartz  
 DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

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

**MILLING TRANSITION DETAILS**  
 SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	76
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

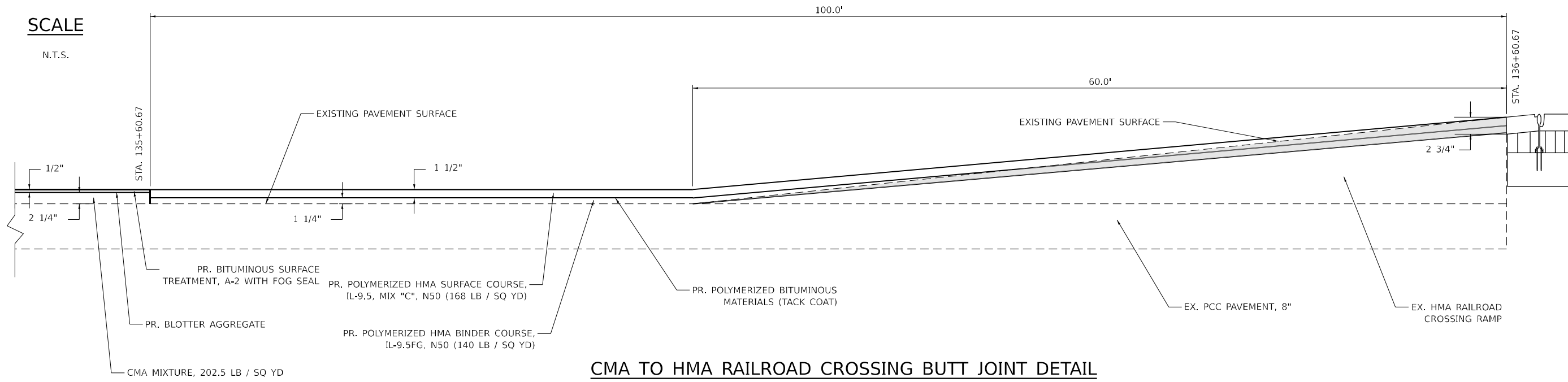
HMA SURFACE REMOVAL - BUTT JOINT

☒ RAILROAD TRACKS

STA. 136+65.19

SCALE

N.T.S.



**CMA TO HMA RAILROAD CROSSING BUTT JOINT DETAIL**

(WEST SIDE)

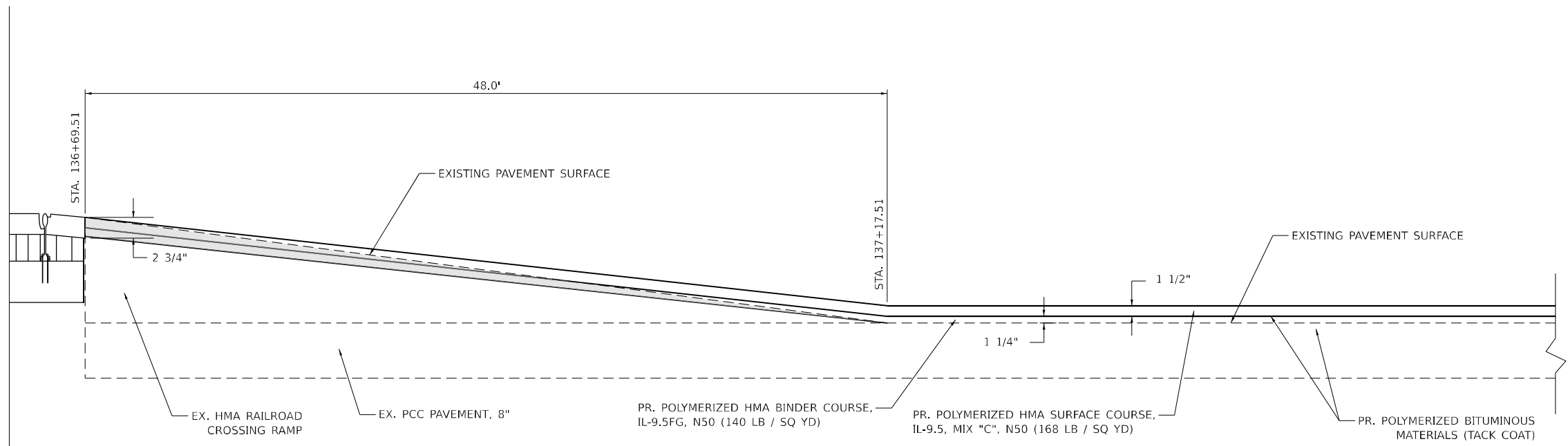
HMA SURFACE REMOVAL - BUTT JOINT

☒ RAILROAD TRACKS

STA. 136+65.19

SCALE

N.T.S.



**RAILROAD CROSSING BUTT JOINT DETAIL**

(EAST SIDE)

MODEL: D:\p\11\110577E-Benchmark\_Road (P56E)\V\_CADD - DWG\4.7\_Tran\CAD\_Sheets\0570B05-hic-Railroad\_Crossing\_Butt Joint\_Detail.dgn  
 FILE NAME: P:\2018\110577E-Benchmark\_Road (P56E)\V\_CADD - DWG\4.7\_Tran\CAD\_Sheets\0570B05-hic-Railroad\_Crossing\_Butt Joint\_Detail.dgn

**TWM, INC.**  
www.twm-inc.com  
IL DESIGN FIRM  
LICENSE NO: 184-001220

USER NAME	= bbillhartz
PLOT SCALE	= 160,000' / in.
PLOT DATE	= 12/12/2022

DESIGNED	- EKF
DRAWN	- BAB
CHECKED	- TBP
DATE	- 12/2022

REVISED	-
REVISED	-
REVISED	-
REVISED	-

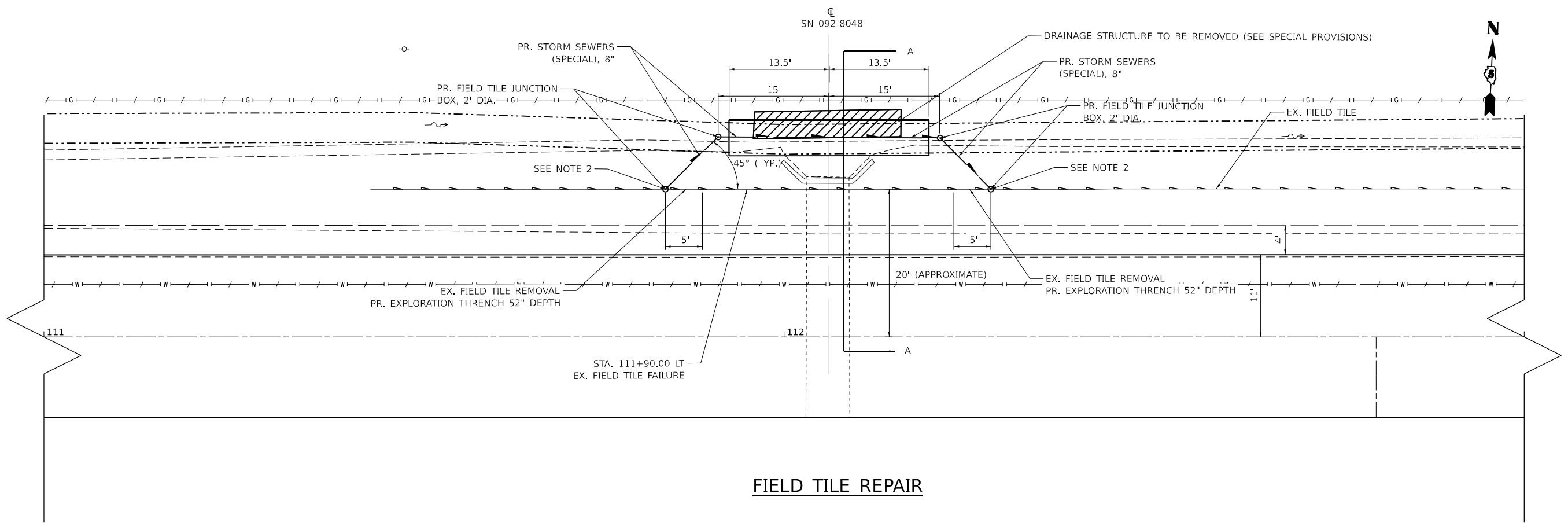
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>RAILROAD CROSSING BUTT JOINT DETAILS</b>			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	77
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

SCALE

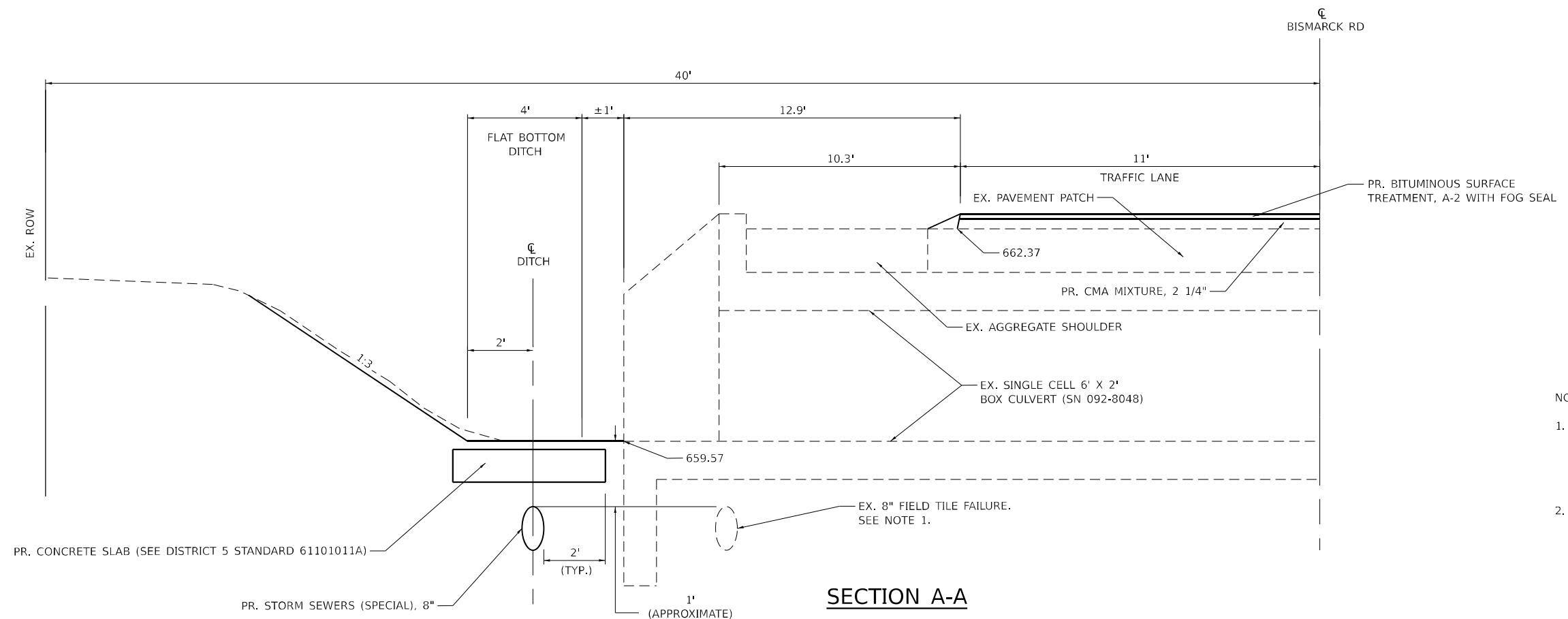
N.T.S.



**FIELD TILE REPAIR**

SCALE

N.T.S.



**SECTION A-A**

- NOTES:
- ABANDONED EXISTING FIELD TILE SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
  - THE CONTRACTOR SHALL CONNECT THE EXISTING FIELD TILE TO THE PROPOSED FIELD TILE JUNCTION BOX ACCORDING TO SECTION 611.

MODEL: D:\default...  
 FILE NAME: P:\2023\11\0577E-Bismarck\_Road (P556)\V\_CADD - DWG\4.7\_Trim\CAD\_Sheets\05770B05-shc-Field Tile Repair\_01.dgn



USER NAME = bbillhartz	DESIGNED - EKF	REVISED -
DRAWN - BAB	DRAWN - BAB	REVISED -
PLOT SCALE = 15,000' / in.	CHECKED - TBP	REVISED -
PLOT DATE = 12/12/2022	DATE - 12/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIELD TILE REPAIR DETAILS**

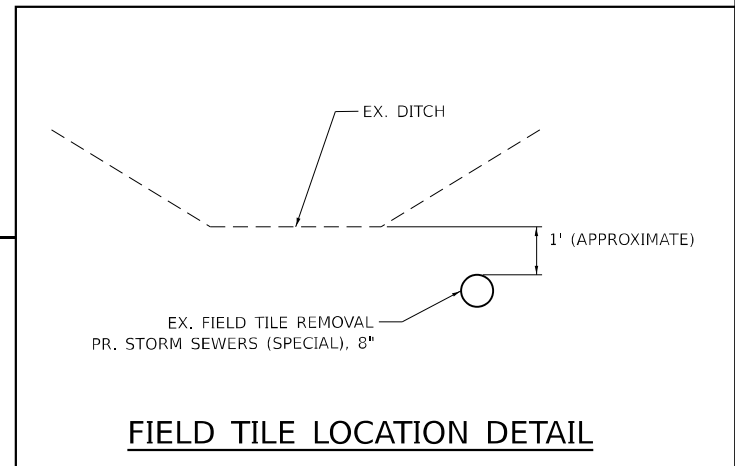
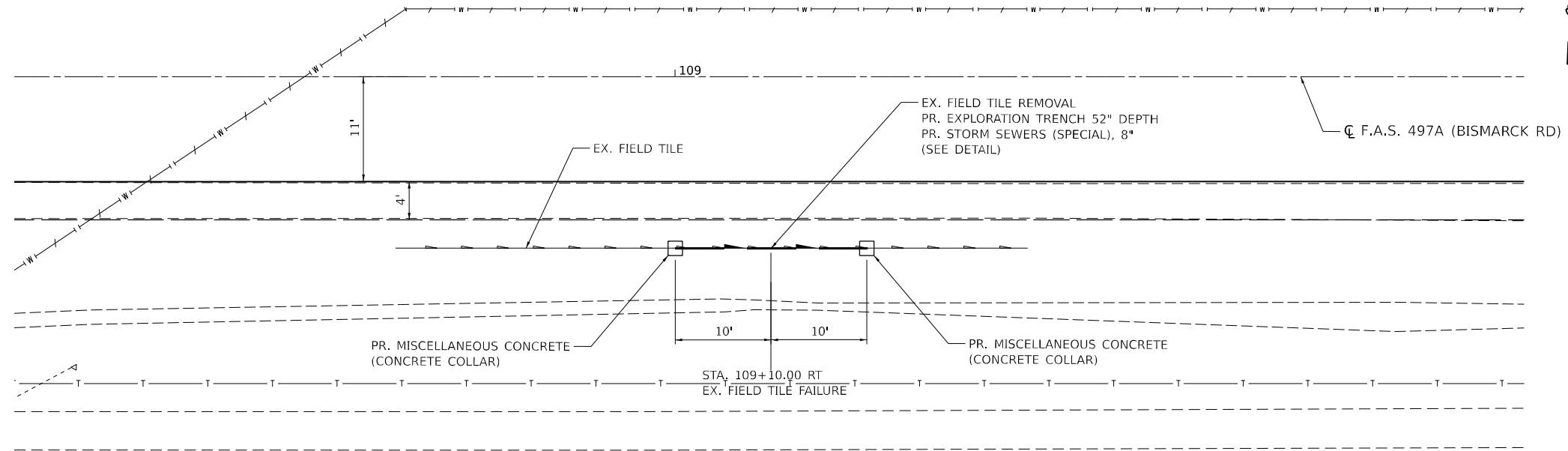
SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 78
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



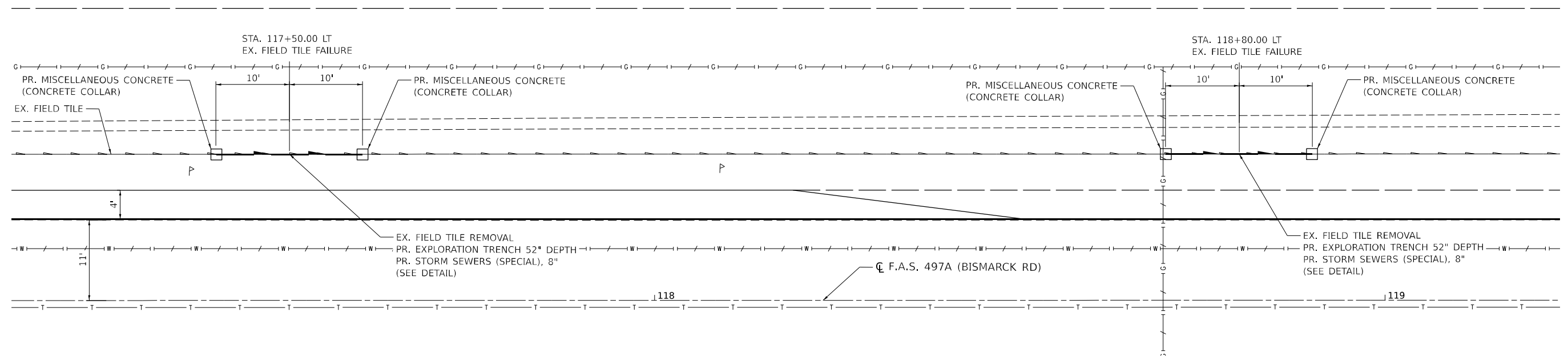
SCALE

N.T.S.



SCALE

N.T.S.



Model: D:\proj\1180577E-Bismarck\_Road (P556)X\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-shc-Field Tile Repair\_02.dwg  
FILE NAME: P:\2023\1180577E-Bismarck\_Road (P556)X\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-shc-Field Tile Repair\_02.dwg



**TWM, INC.**  
www.twm-inc.com  
IL DESIGN FIRM  
LICENSE NO:  
184-001220

USER NAME	= bbillhartz
PLOT SCALE	= 15,000' / in.
PLOT DATE	= 12/12/2022

DESIGNED	- EKF
DRAWN	- BAB
CHECKED	- TBP
DATE	- 12/2022

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FIELD TILE REPAIR DETAILS

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	79
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

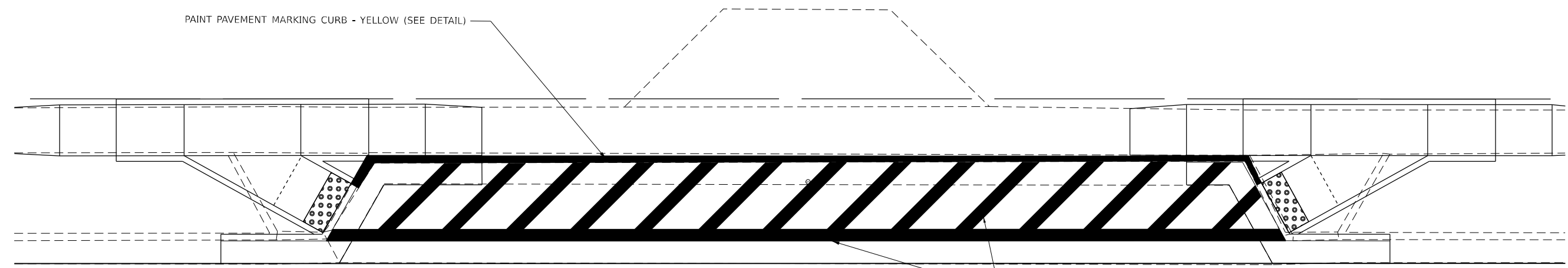
**SCALE**

N.T.S.



BISMARCK ELEMENTARY SCHOOL

PAINT PAVEMENT MARKING CURB - YELLOW (SEE DETAIL)



PR. PAVEMENT MARKING REMOVAL - WATER BLASTING  
 PR. PAVEMENT MARKING - LINE 12" SOLID WHITE DIAGONALS AT 5' CTRS.

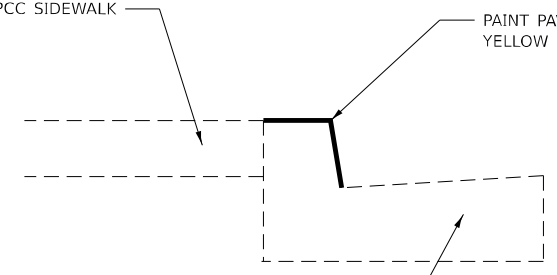
i125+00

☉ F.A.S. 497A (BISMARCK RD)

EX PCC SIDEWALK

PAINT PAVEMENT MARKING CURB - YELLOW

EX. PCC CURB AND GUTTER, TYPE B-6.24



**CURB PAINTING DETAIL**

MODEL: D:\default\FILE NAME: P:\2018\1180577E-Bismarck\_Road (P556)1\4\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-shc-details\_school\_dropoff\_stripping.dgn



**TWM, INC.**  
 WWW.TWM-INC.COM  
 IL DESIGN FIRM  
 LICENSE NO: 184-001220

USER NAME =	bbillhartz
DESIGNED -	EKF
DRAWN -	BAB
CHECKED -	TBP
DATE -	12/2022
PLOT SCALE =	10,000' / in.
PLOT DATE =	12/12/2022

DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	REVISED -	
CHECKED -	TBP	REVISED -	
DATE -	12/2022	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHOOL DROPOFF STRIPING DETAIL**

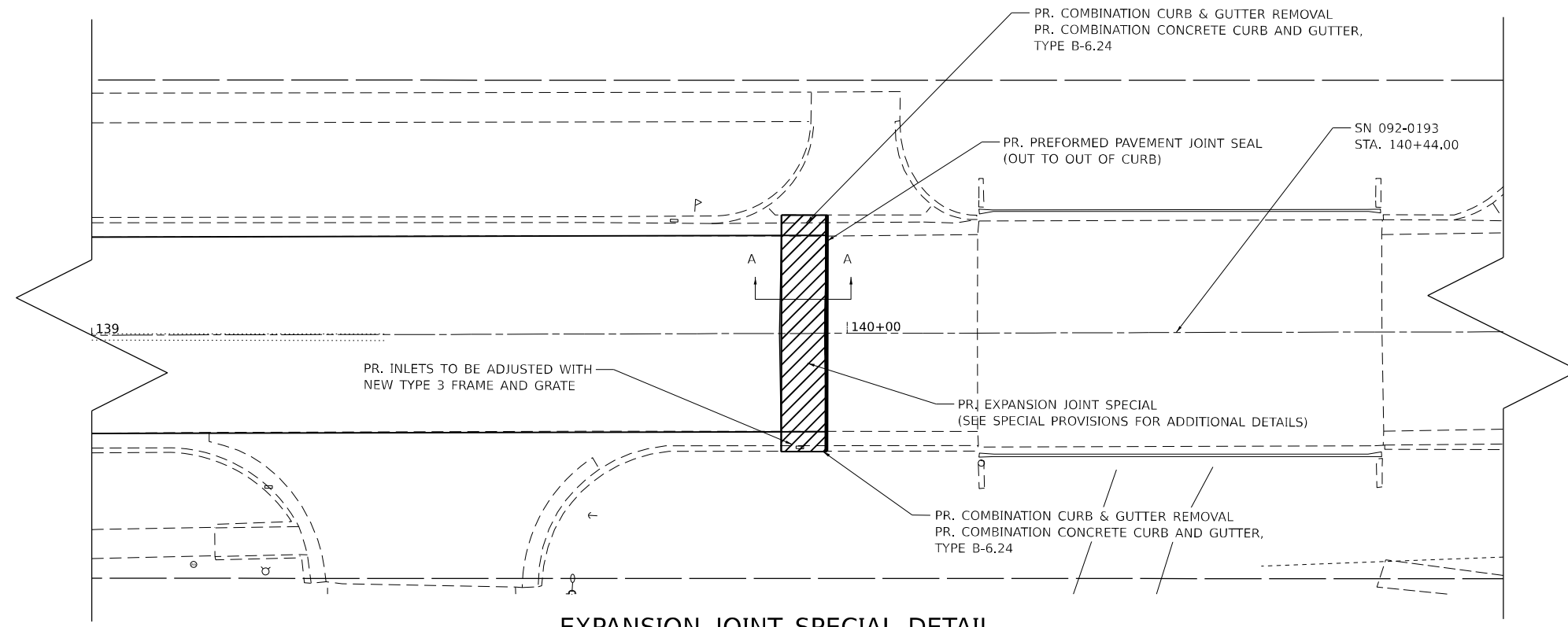
SCALE: N.T.S.    SHEET 1    OF 1    SHEETS    STA.    TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	80
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



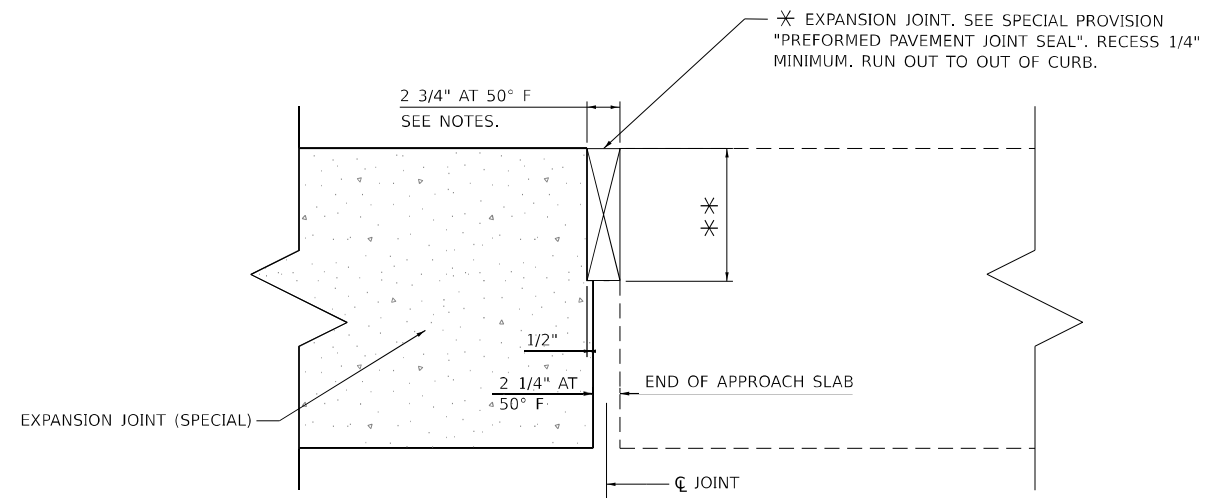
SCALE

N.T.S.



**EXPANSION JOINT SPECIAL DETAIL**

SN 092-0193

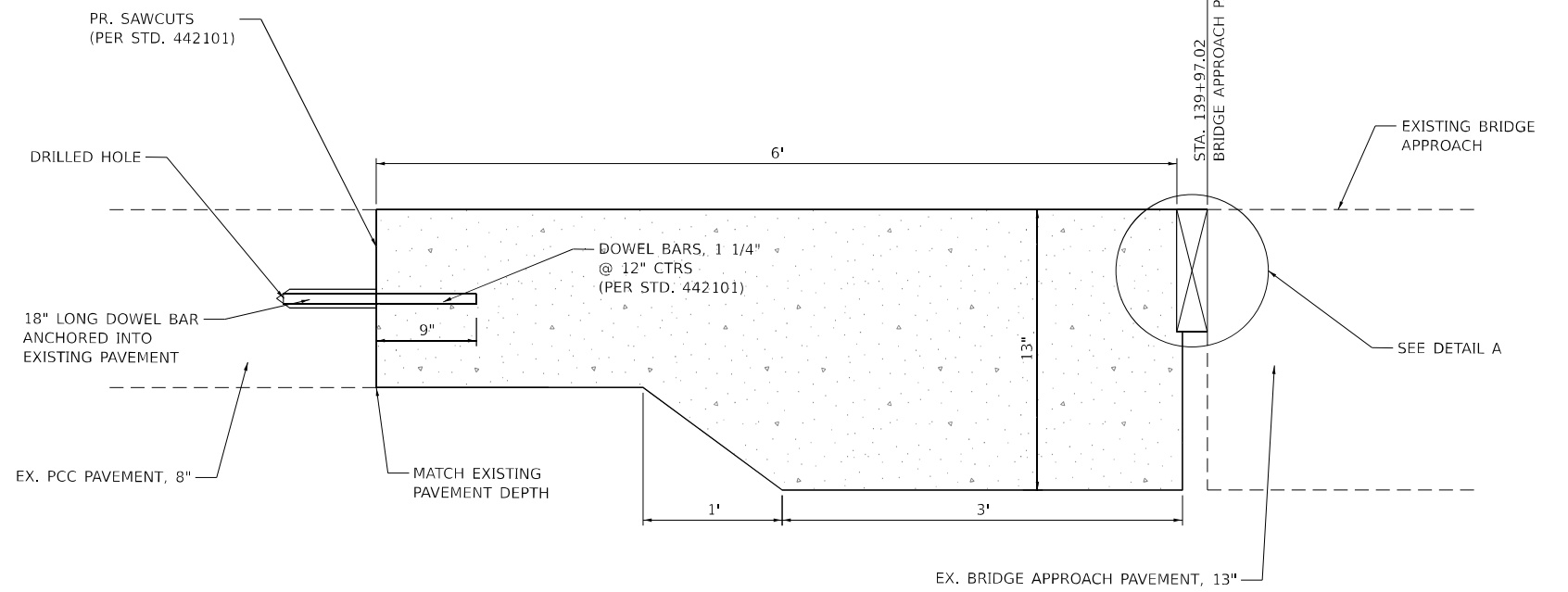


\* COST INCLUDED WITH EXPANSION JOINT (SPECIAL).  
 \*\* PER MANUFACTURER RECOMMENDATIONS.

**DETAIL A**

NOTES:

1. THE JOINT SHALL BE ADJUSTED FOR TEMPERATURE PER ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS.



**SECTION A-A**

MODEL: D:\default...  
 FILE NAME: P:\2018\11\05\775-Benchmark\_Road (P556)1\4\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rlc-Expansion Joint Special Detail.dgn



**TWM, INC.**  
 WWW.TWM-INC.COM  
 IL DESIGN FIRM  
 LICENSE NO: 184-001220

USER NAME = bbillhartz  
 DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

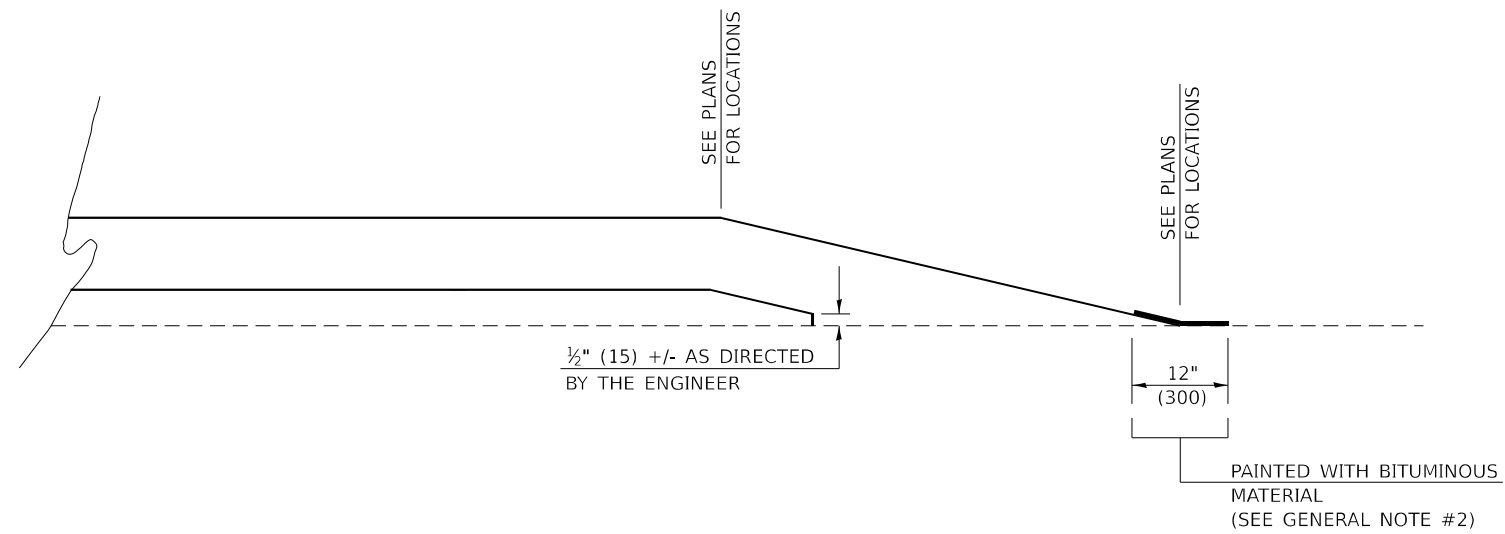
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT (SPECIAL) DETAIL  
 SN 092-0193**

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 81
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.



### GENERAL NOTES

1. ALL PROPOSED RUNDOWNS SHALL BE UNIFORMLY CONSTRUCTED AS FOLLOWS:  
 1:240 (20 FEET PER INCH) OF THICKNESS FOR NON-INTERSTATE IMPROVEMENTS (SEE ARTICLE 406.09)  
 1:360 (30 FEET PER INCH) OF THICKNESS FOR INTERSTATE IMPROVEMENTS
2. ON RESURFACING RUNDOWNS THAT ARE TO REMAIN IN PLACE AFTER COMPLETION OF THE SECTION, THE END OF THE FEATHEREDGE SHALL BE PAINTED WITH A UNIFORM COATING OF AC OR HFE BITUMINOUS MATERIAL APPROVED BY THE ENGINEER AFTER THE RUNDOWN IS COMPLETED. THE BITUMINOUS MATERIAL SHALL BE PAINTED ACROSS THE END OF THE RUNDOWN APPROXIMATELY 12 INCHES (300 mm) WIDE, 6 INCHES (150 mm) ON THE RUNDOWN AND 6 INCHES (150 mm) ON THE PAVEMENT. THE PAINTED STRIP SHALL BE COVERED WITH SAND. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

#### DISTRICT 5 DETAIL NO. 406AAAAA

MODEL: D:\p\h\...  
 FILE NAME: P:\2018\1180577E-Benchmark\_Road (P556)1\4\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rhc-D5-detailed\_406AAAAA.dwg



USER NAME =	bbillhartz	DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	REVISIED -			
PLOT SCALE =	40,000' / in.	CHECKED -	TBP	REVISED -	
PLOT DATE =	12/12/2022	DATE -	12/2022	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FETHEREDGE RUNDOWN

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

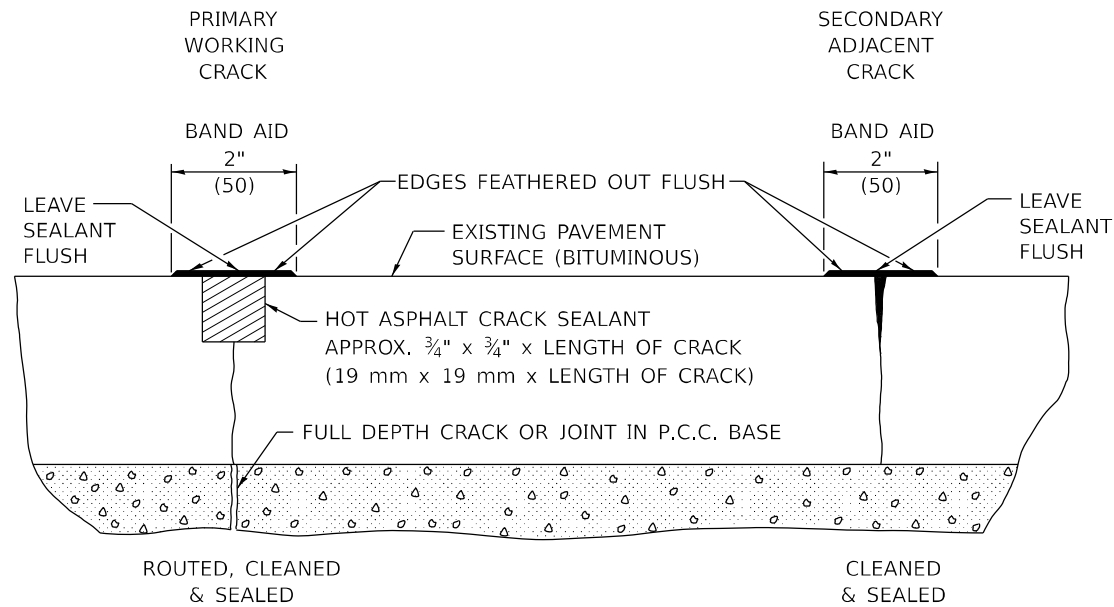
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	82
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				





# HMA PAVEMENT

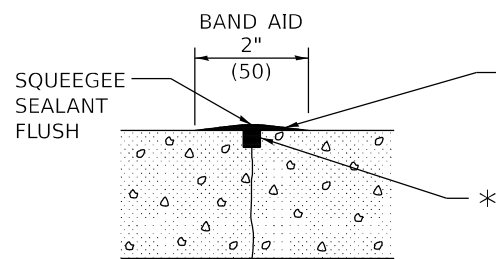
(USE PAY ITEMS : 40600400 MIXTURES FOR CRACKS, JOINTS, AND FLANGWAYS)



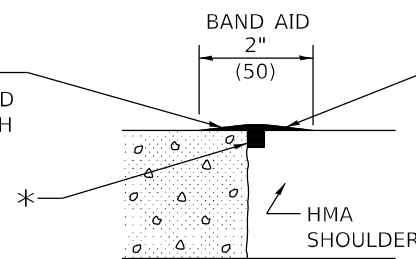
# PCC PAVEMENT

(USE PAY ITEMS : 45200100 JOINT OR CRACK ROUTING (P.C.C. PAVEMENT & SHOULDER) AND 40600400 MIXTURES FOR CRACKS, JOINTS, AND FLANGWAYS)

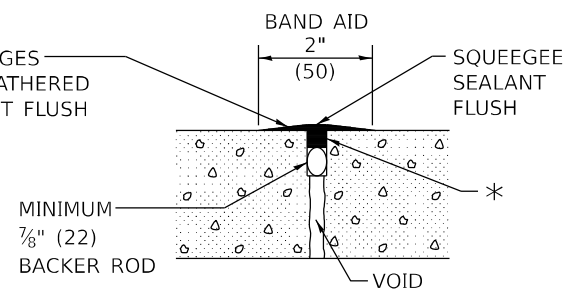
## TRANSVERSE CRACKS AND JOINTS AND CENTERLINE JOINT



## LONGITUDINAL SHOULDER JOINT

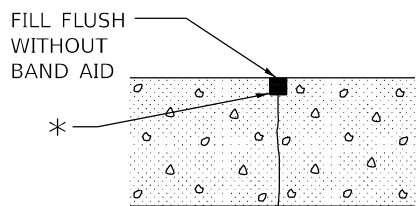


## ANY WIDE LONGITUDINAL JOINT OR CRACK

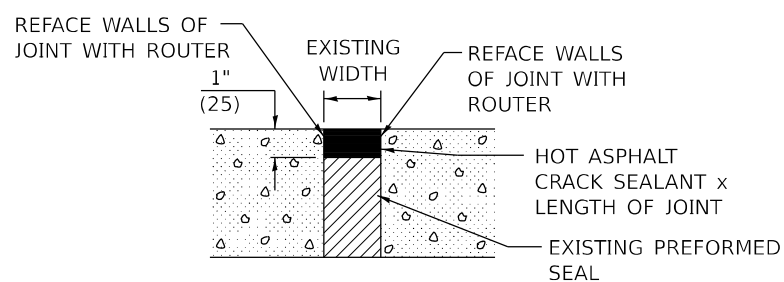


\* HOT ASPHALT CRACK SEALANT APPROX. 3/4 " x 3/4 " x LENGTH OF CRACK. ACTUAL QUANTITY WILL VARY AS NEEDED FOR PRIMARY OR SECONDARY WORKING CRACK.

## LONGITUDINAL RANDOM CRACK



## TRANSVERSE EXPANSION JOINT



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 45AAAAA MODIFIED

MODEL: D:\p\11\110577E-Bernard, Road (P55E)N.CADD - DWG\4.7.Tpm\CAD\_Sheets\0570B05-rht-D5-detailed\_45AAAAA.dgn  
 FILE NAME: P:\2018\110577E-Bernard, Road (P55E)N.CADD - DWG\4.7.Tpm\CAD\_Sheets\0570B05-rht-D5-detailed\_45AAAAA.dgn



USER NAME =	bbillhartz	DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	REVISIONS			
CHECKED -	TBP				
DATE -	12/2022				

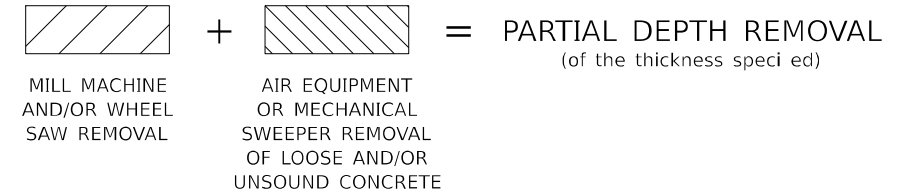
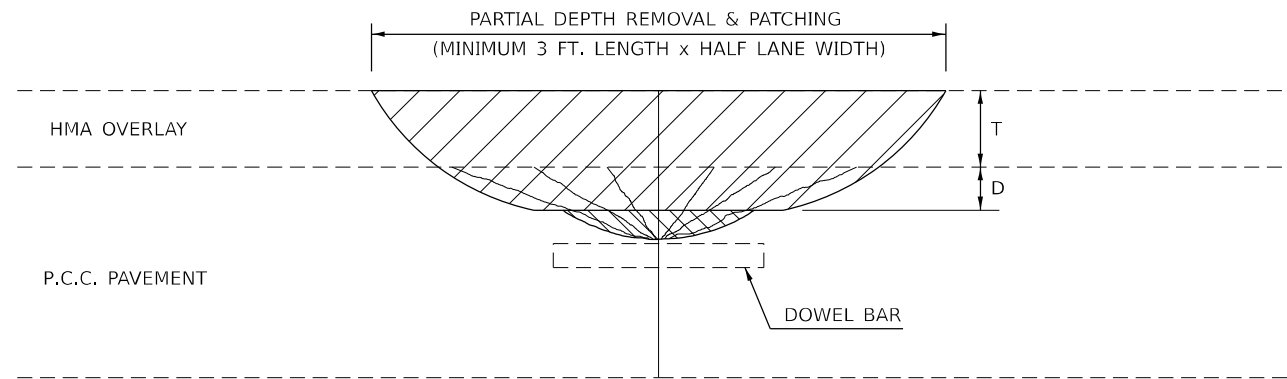
DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	REVISIONS	
CHECKED -	TBP		
DATE -	12/2022		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CRACK AND JOINT SEALING			
SCALE:	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	85
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

**RESURFACED PCC PAVEMENT**



**DESIGN NOTES**

PARTIAL DEPTH HMA PATCHING SHALL NOT BE USED WHEN HMA OVERLAY THICKNESS (T) ON PCC PAVEMENT EXCEEDS 4¾ INCHES (121 mm) OR ON CRC PAVEMENT.

**GENERAL NOTES**

ALL VOLUME OF PARTIAL DEPTH REMOVAL SHALL BE REPLACED WITH HOT-MIX ASPHALT (HMA) AND PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR PARTIAL DEPTH PATCHING.

T = THICKNESS OF HMA OVERLAY(S). SEE EXISTING TYPICAL CROSS SECTION.

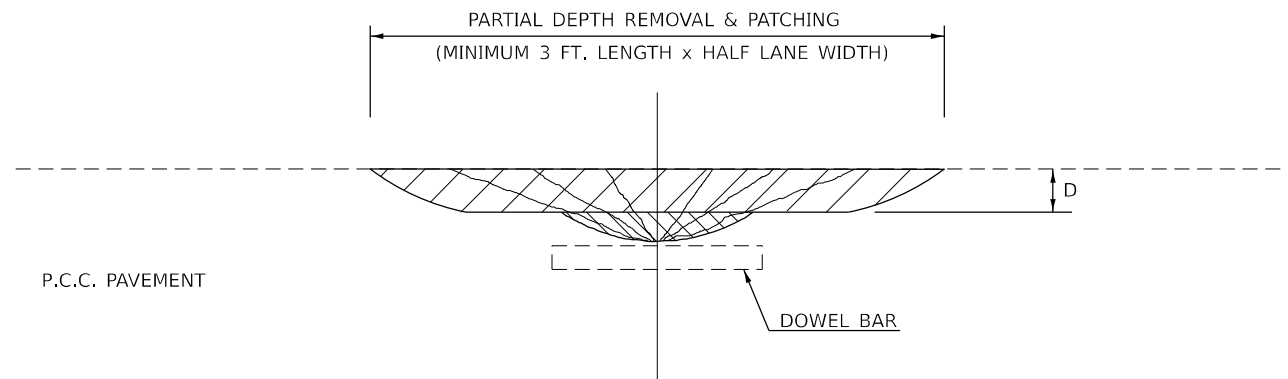
GENERAL NOTE 406H SHALL INCLUDE MIXTURE REQUIREMENTS FOR PARTIAL DEPTH PATCHING.

HMA REPLACEMENT IN RESURFACED PCC PAVEMENT LOCATIONS SHALL BE ACCORDING TO SECTION 406 OF THE STANDARD SPECIFICATIONS.

D = DEPTH OF PARTIAL DEPTH REMOVAL INTO EXISTING PCC PAVEMENT. (3" (75 mm)± OR TO SOUND CONCRETE)

TRANSVERSE CONTRACTION JOINT SHOWN - OTHER LOCATIONS SIMILAR.

**BARE PCC PAVEMENT**



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. XX442100 MODIFIED**

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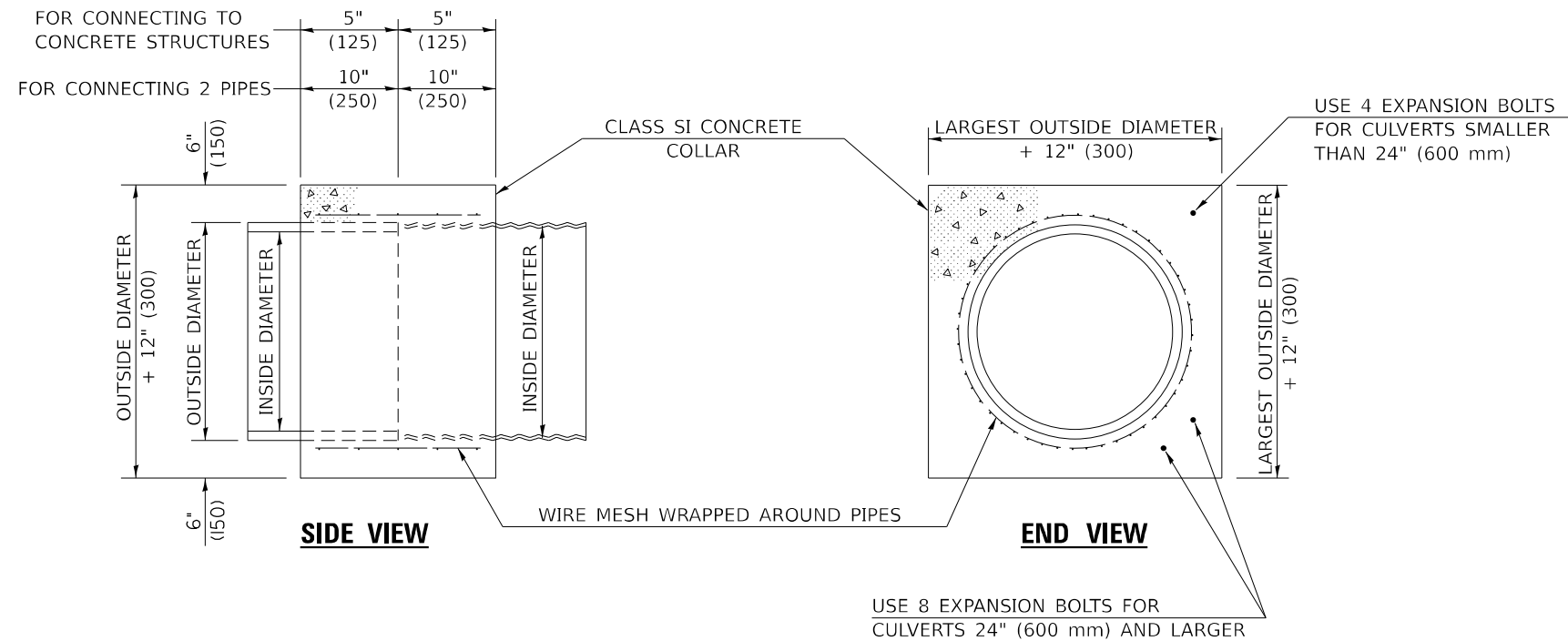
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CHECKED - TBP	CHECKED - TBP	REVISED -
DATE - 12/2022	DATE - 12/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PCC PARTIAL DEPTH HOT-MIX ASPHALT PATCHING**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	86
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



**GENERAL NOTES**

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIAMETERS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIAMETER (SEE END VIEW).
3. THE WIRE MESH SHALL WEIGH NOT LESS THAN 54#/100 SQ. FT. (2.63 kg/m<sup>2</sup>).
4. WHEN CONCRETE COLLARS ARE CONSTRUCTED ADJACENT TO AN EXISTING CONCRETE STRUCTURE (HEADWALLS, ETC.) EXPANSION BOLTS, SHALL BE USED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, FOR EXPANSION BOLTS OF THE SIZE SPECIFIED IN THE PLANS.
5. CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, PER CUBIC YARD (CUBIC METER), FOR CONCRETE COLLARS INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.

QUANTITIES FOR CONCRETE PIPES	
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED
INCH (mm)	20" (500 mm) WIDTH CU.YD. (m <sup>3</sup> )
4" (100)	0.14 (0.11)
6" (150)	0.16 (0.12)
8" (200)	0.19 (0.14)
10" (250)	0.22 (0.17)
12" (300)	0.25 (0.19)
15" (375)	0.30 (0.23)
18" (450)	0.35 (0.27)
24" (600)	0.45 (0.35)
30" (750)	0.57 (0.43)
36" (900)	0.69 (0.53)
42" (1050)	0.83 (0.63)
48" (1200)	0.97 (0.74)
54" (1350)	1.12 (0.86)
60" (1500)	1.28 (0.98)

QUANTITIES FOR METAL PIPES	
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED
INCH (mm)	20" (500 mm) WIDTH CU.YD. (m <sup>3</sup> )
4" (100)	0.12 (0.09)
6" (150)	0.14 (0.11)
8" (200)	0.16 (0.12)
10" (250)	0.19 (0.14)
12" (300)	0.21 (0.16)
15" (375)	0.25 (0.19)
18" (450)	0.29 (0.22)
24" (600)	0.38 (0.29)
30" (750)	0.47 (0.36)
36" (900)	0.59 (0.45)
42" (1050)	0.69 (0.53)
48" (1200)	0.81 (0.62)
54" (1350)	0.93 (0.71)
60" (1500)	1.05 (0.81)

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

MODEL: D:\p\11\110577E-Benchmark, Road (P56E) \V\_CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rhc-D5-detailed\_54248510.dgn  
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USER NAME = bbillhartz  
 PLOT SCALE = 40,000' / in.  
 PLOT DATE = 12/12/2022

DESIGNED - EKF  
 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONCRETE COLLAR

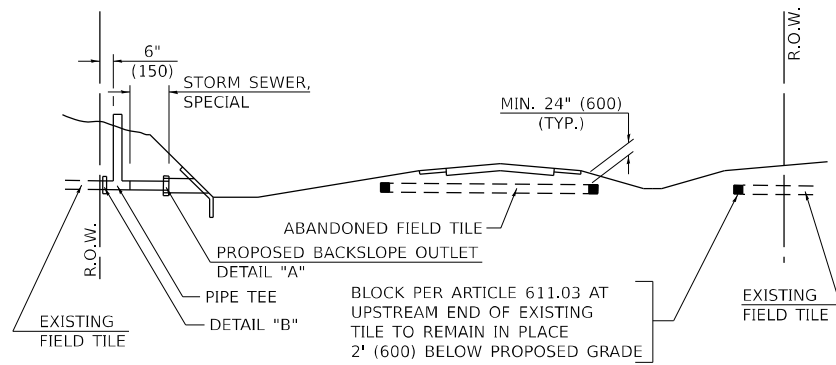
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. 54248510**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	87
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

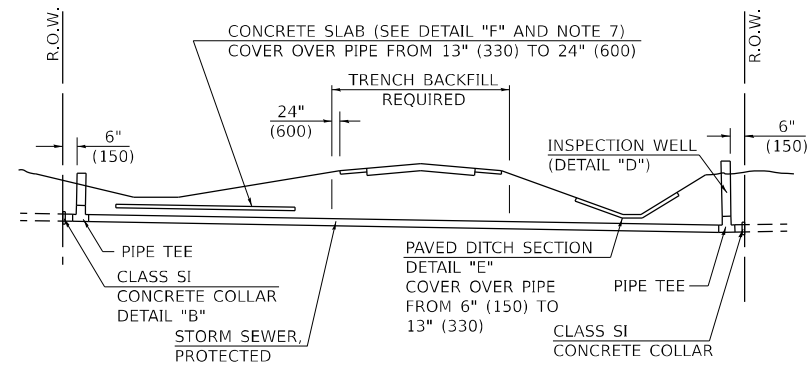






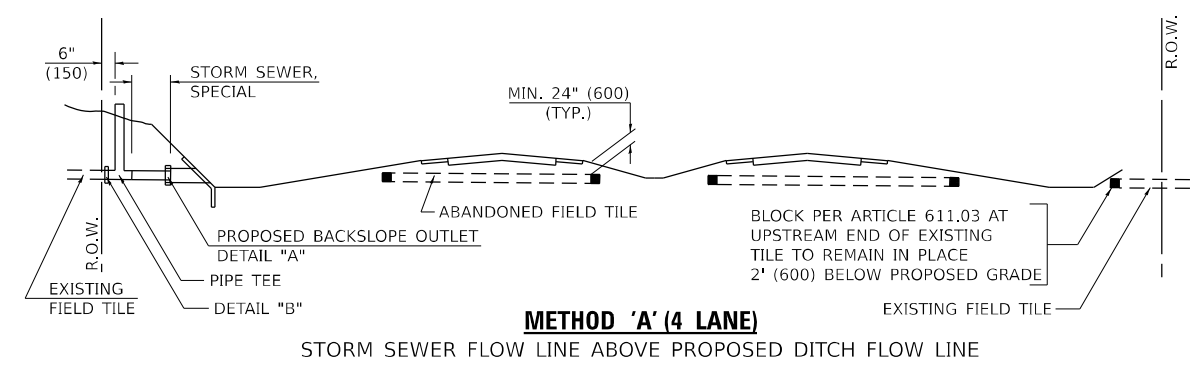
**METHOD 'A' (2 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



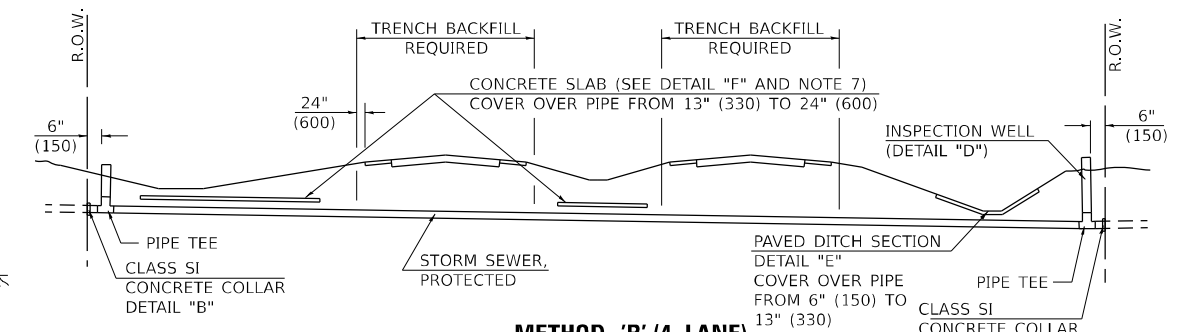
**METHOD 'B' (2 LANE)**

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



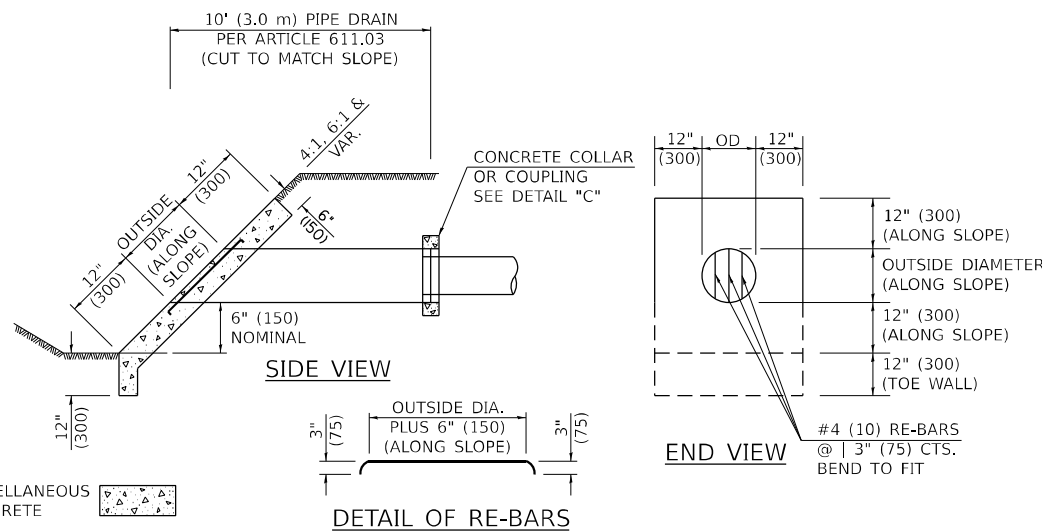
**METHOD 'A' (4 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

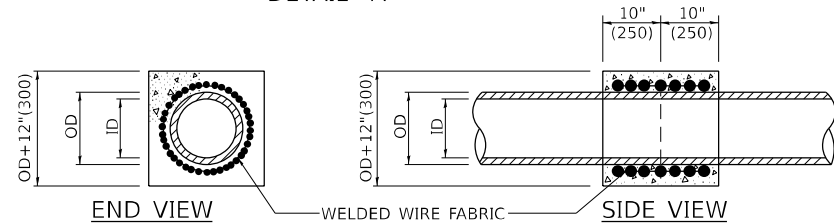


**METHOD 'B' (4 LANE)**

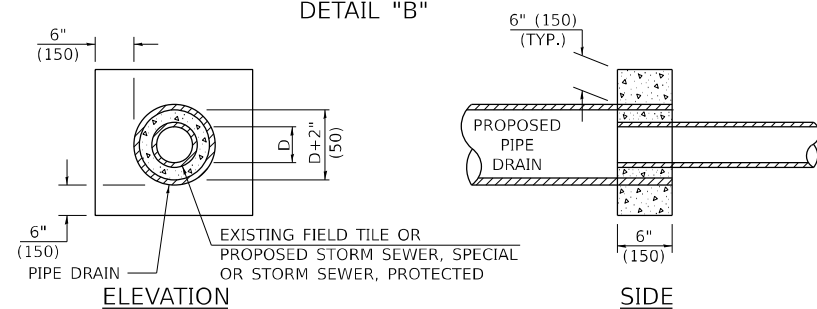
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



**HEADWALL FOR BACKSLOPE OUTLET**  
DETAIL "A"



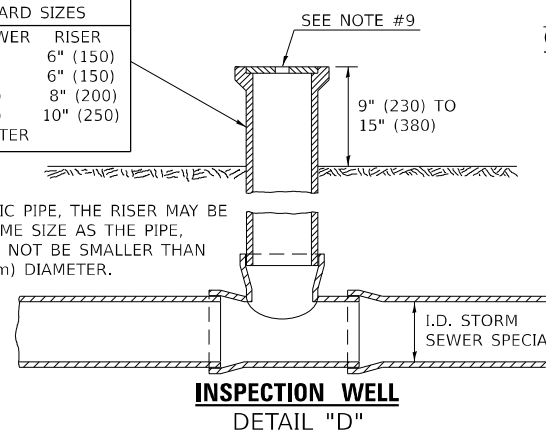
**CONCRETE COLLAR**  
DETAIL "B"



**CLASS SI COLLAR**  
DETAIL "C"

CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	

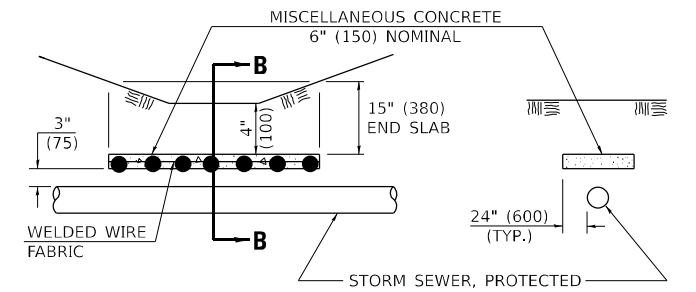
FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.



**INSPECTION WELL**  
DETAIL "D"

**GENERAL NOTES**

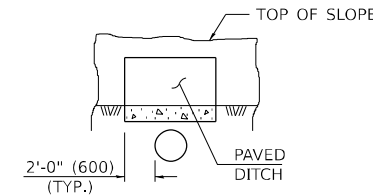
- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



**SLAB ELEVATION**

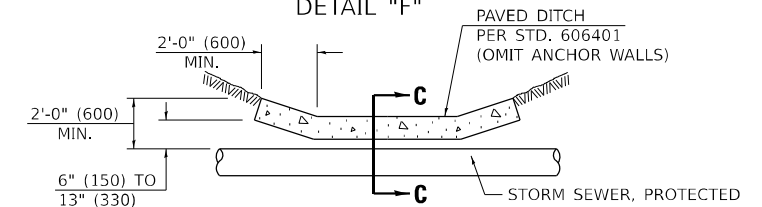
**CONCRETE SLAB**  
DETAIL "F"

**SECTION B-B**



**SECTION C-C**

**PAVED DITCH**  
DETAIL "E"



**PAVED DITCH ELEVATION**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 61101011A**

MODEL: D:\default\... FILE NAME: P:\2023\01\805775-Bismarck\_Road (P556) V4.CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rhc-05-detailed 61101011A.dwg



**TWM, INC.**  
www.twm-inc.com  
ILL. DESIGN FIRM LICENSE NO: 184-001220

USER NAME = bbillhartz	DESIGNED - EKF	REVISED -
PILOT SCALE = 40,000' / in.	DRAWN - BAB	REVISED -
PILOT DATE = 12/12/2022	CHECKED - TBP	REVISED -
	DATE - 12/2022	REVISED -

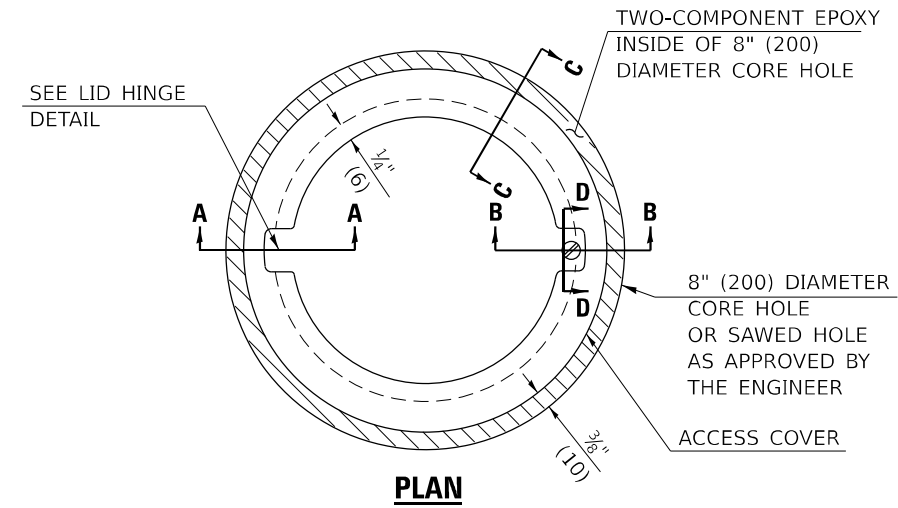
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FIELD TILE SYSTEMS (TREATMENT OF EXISTING)**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	89
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

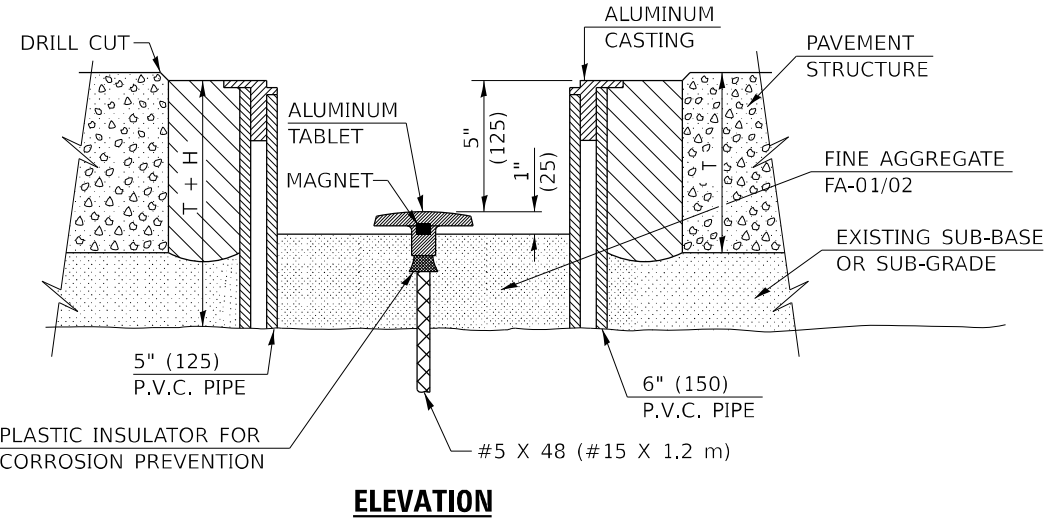
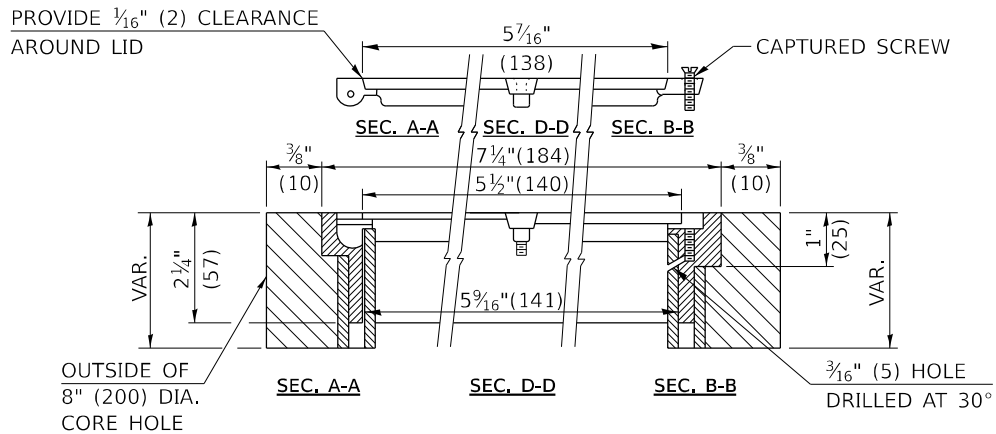
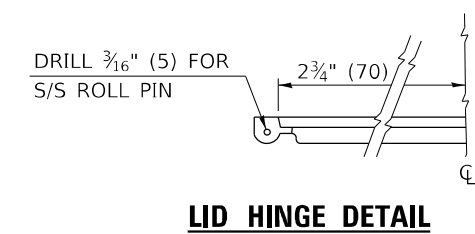
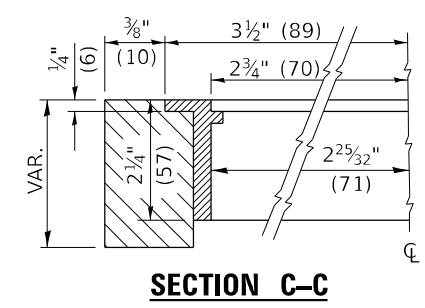
TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)



**LEGEND**

- ALUMINUM CASTING
- 5" (125) OR 6" (150) P.V.C. PIPE
- TWO-COMPONENT EPOXY

T = THICKNESS OF PAVEMENT STRUCTURE  
H = THE THICKNESS OF THE SUB-BASE GRANULAR + 1" (25)



SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; QQ-A-601Es. NO EXCEPTIONS.

RE-BAR-SURVEY MARKER, TYPE I, (SPECIAL) TO BE FURNISHED BY THE CONTRACTOR AND SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR (SEE SPECIAL DETAIL SHEET FOR ALUMINUM TABLET AND RE-BAR SPECIFICATIONS).

BILL OF MATERIAL	
ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS,	
5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40,	
ALUMINUM TABLET, STAMPED IN ACCORDANCE WITH STANDARD 667101.	
5/8" X 48" (#15 X 1.2 m ) RE-BAR, EPOXY AND FA-01/02 AGGREGATE.	

**GENERAL NOTES**

- ALUMINUM CASTING SHALL BE EITHER PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE.
- BACKFILL WITH FINE AGGREGATE - FA-01/02.
- WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
- THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MARKER VAULT WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING, EPOXY AND FA-01/02 AGGREGATE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
- ALL SURVEY MARKER (VAULTS) SHALL BE PLACED 1/4" (6 mm) | BELOW THE FINAL SURFACE.
- THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. X0301232**

MODEL: D:\default\... TWM, INC. ENGINEERING GEOSPATIAL SERVICES



USER NAME = bbillhartz  
DESIGNED - EKF  
DRAWN - BAB  
CHECKED - TBP  
DATE - 12/2022

DESIGNED - EKF  
DRAWN - BAB  
CHECKED - TBP  
DATE - 12/2022

REVISIONS  
REVISOR  
DATE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

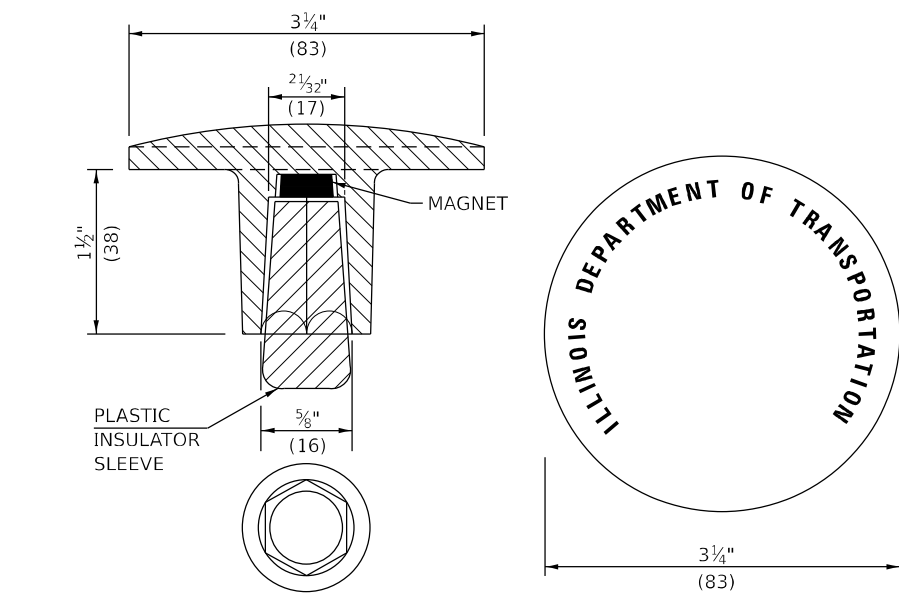
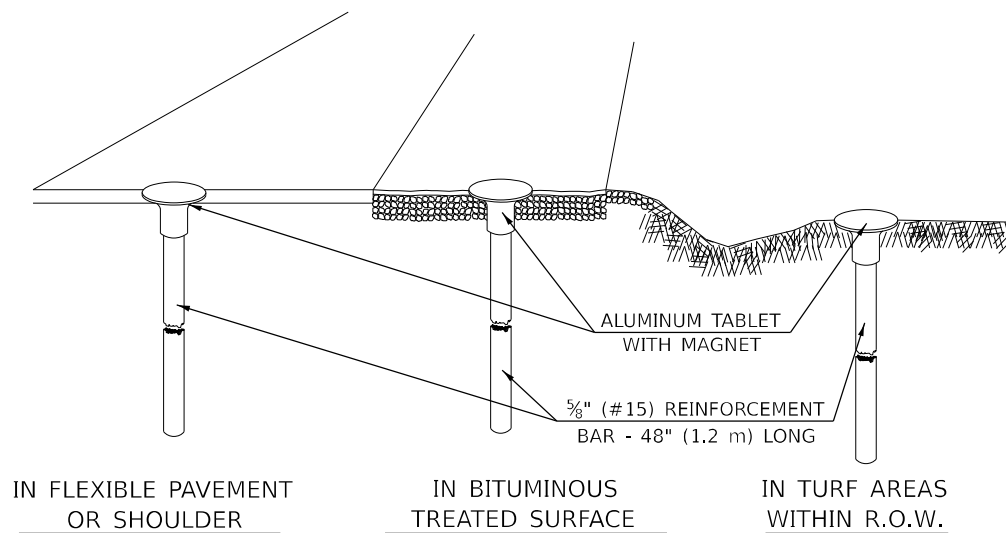
SURVEY MARKER VAULT

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	90
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

**XZ193300 – SURVEY MARKER, TYPE 1 (SPECIAL)**

TO BE INSTALLED IN FLEXIBLE PAVEMENT OR SHOULDER, BITUMINOUS TREATED SURFACE AND TURF AREAS WITHIN THE RIGHT-OF-WAY FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



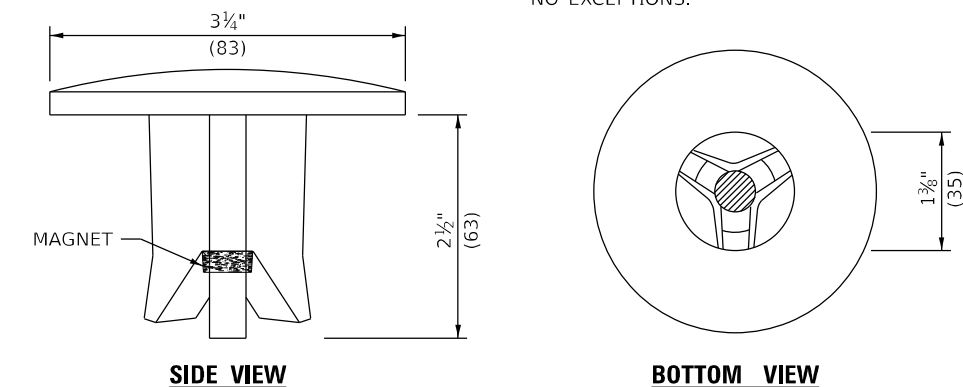
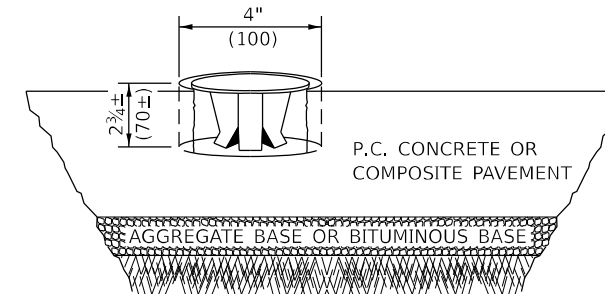
THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

**GENERAL NOTES**

1. THE CONTRACT UNIT PRICE, EACH, FOR SURVEY MARKER, TYPE 1 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE REINFORCEMENT BAR AND ALUMINUM TABLET AND FOR ALL LABOR AND MATERIAL REQUIRED TO SET THE MARKER IN PLACE.
2. ALL SURVEY MARKERS, TYPE 1 (SPECIAL) SHALL BE PLACED ±1/4" (6 mm) BELOW THE FINAL SURFACE.
3. WHEN THE TABLET AND REBAR ARE PLACED AS PART OF A SURVEY MARKER VAULT, THEY SHALL BE CONSIDERED AS INCLUDED IN THAT PAY ITEM AND THERE WILL BE NO PAYMENT FOR THE SURVEY MARKER, TYPE 1 (SPECIAL).

**XZ193400 – SURVEY MARKER, TYPE 2 (SPECIAL)**

TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

**GENERAL NOTES**

1. WORK ON THIS ITEM SHALL NOT START UNTIL THE FINAL SURFACE IS COMPLETED.
2. THE ALUMINUM TABLET (FORKED) SHALL REST UPON THE BOTTOM OF THE 4" (100 mm) CORE HOLE. IF THE HOLE IS TOO DEEP, EPOXY GROUT MUST BE USED TO DECREASE THE DEPTH AND ALLOWED TO HARDEN BEFORE PROCEEDING.
3. THE ALUMINUM TABLET SHALL BE ANCHORED IN THE 4" (100 mm) DIAMETER HOLE IN THE NEW PAVEMENT WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
4. THE 4" (100 mm) CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. THE CONTRACT PRICE, EACH, FOR SURVEY MARKER, TYPE 2 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE ALUMINUM TABLET AND FOR ALL LABOR AND MATERIAL REQUIRED TO SET THE MARKER IN PLACE, AS SPECIFIED, INCLUDING CORING THE NEW PAVEMENT.
6. ALL SURVEY MARKERS, TYPE 2 (SPECIAL) SHALL BE PLACED ± 1/4" (6 mm) BELOW THE FINAL SURFACE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**SPECIFICATIONS FOR ALUMINUM TABLET**

SURVEY CAP FOR REBAR. 3 1/4" (83 mm) CONVEX SURVEY CAP FOR 5/8" (15 mm) REBAR WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 1/32" (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM CAP FOR REBAR SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM CAP FOR REBAR SHALL BE TAPERED FOR A PERFECT COMPRESSION FIT. A SPECIAL PLASTIC INSULATOR SHALL BE INSTALLED TO PREVENT DISSIMILAR METAL CONTACT AND CORROSION. THE PLASTIC INSULATOR SHALL FORM READILY TO THE OUTER SHAPE OF THE REBAR AND TO THE INNER SHAPE OF THE ALUMINUM CAP SOCKET. THE PLASTIC INSULATOR SHALL BE LOW DENSITY POLYETHYLENE, A MINIMUM 1 1/2" (38 mm) LONG AND CONFORM TO FEDERAL SPECIFICATION L-P 390.

COMPOSITION: ALUMINUM 98.3-98.7%; OTHER 1.3-1.7%; STRENGTH: YIELD 28 KSI (193 MPa), ULTIMATE 32 KSI (221 MPa), ELONGATION 15% [IN 2" (50 mm)]. SPECIFICATIONS: ALUMINUM ALLOY 6101-0; ASTM B317-83 (EXCEPT TEMPER) AS FORGED. NO EXCEPTIONS.

**SPECIFICATIONS FOR REBAR**

REBAR FOR ALUMINUM TABLET. REINFORCEMENT BAR SHALL BE 5/8" (#15) X 48" (1.2 m) (DEFORMED).

INSPECTION OF REINFORCEMENT BAR 5/8" (#15) SHALL BE DONE BY DISTRICT PERSONNEL OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SURVEY MARKERS TYPE 1 & 2 (SPECIAL)

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. XZ193AAA**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	91
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

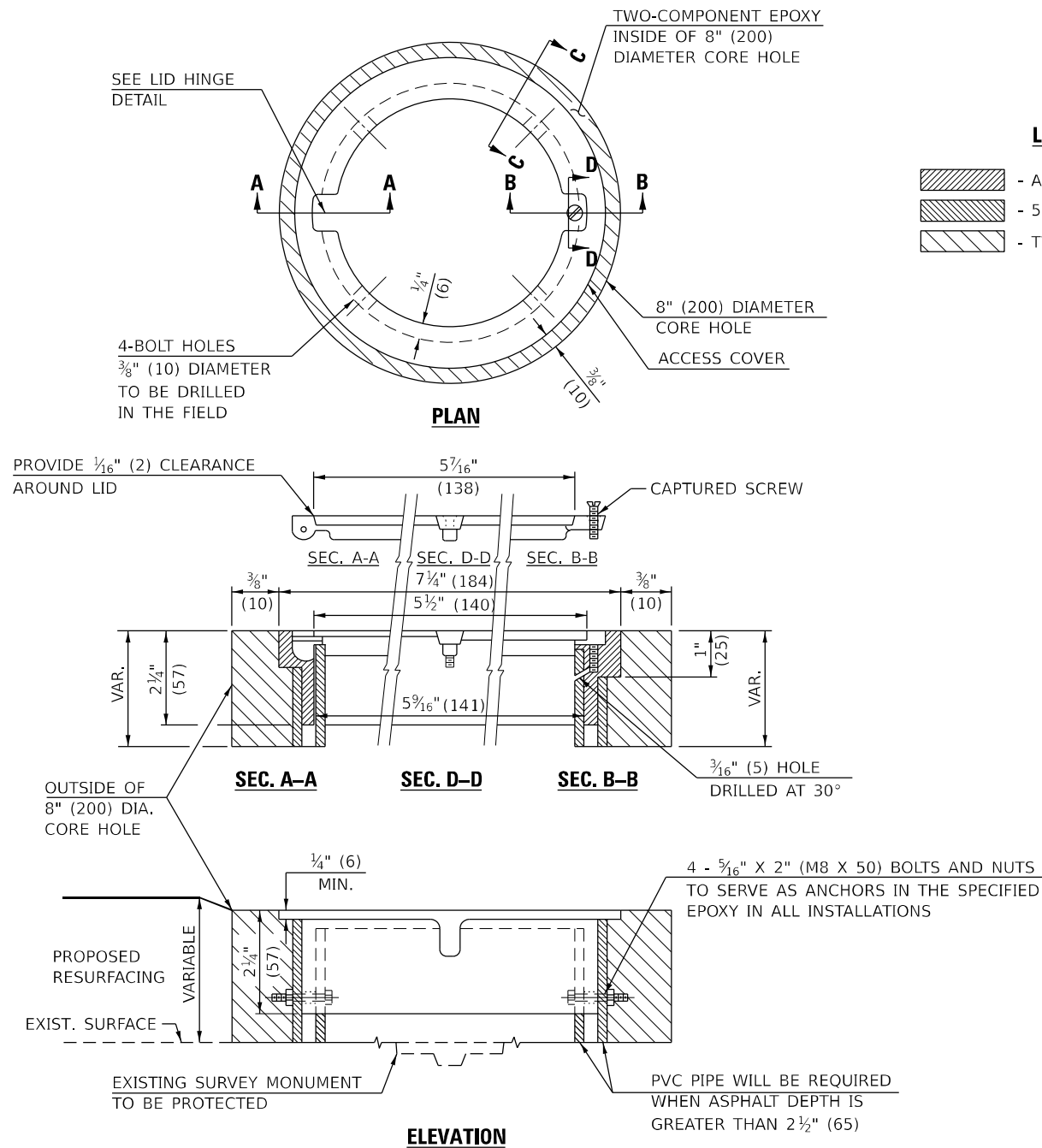
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	DATE - 12/2022	REVISED -

TO BE INSTALLED IN ALL PAVEMENT TYPES FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S) AND LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)



**LEGEND**

- ALUMINUM CASTING
- 5" (125) OR 6" (150) P.V.C. PIPE
- TWO-COMPONENT EPOXY

SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; QQ-A-601es. NO EXCEPTIONS.

BILL OF MATERIAL	
ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS.	
4 EACH - 5/16" X 2" (M8 X 50) BOLTS WITH NUTS, EPOXY,	
5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40 (WHEN REQUIRED).	

**GENERAL NOTES**

1. WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
2. THE SURVEY MONUMENT COVER ASSEMBLY SHALL BE CENTERED ABOVE THE SURVEY MONUMENT TO BE PROTECTED.
3. MODIFICATION OF THE ALUMINUM CASTING SHALL BE DONE BY GRINDING OR SAWING WHEN HEIGHT REDUCTION IS REQUIRED.
4. ALL SURVEY MONUMENT COVER ASSEMBLIES SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
5. ALUMINUM CASTING SHALL BE PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE WHEN AN INCREASE IN HEIGHT IS REQUIRED.
6. THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
7. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MONUMENT COVER ASSEMBLY WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING THE NEW PAVEMENT SURFACE AND EPOXY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
8. THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

MODEL: D:\default\FILE NAME: P:\2023\11\180577E-Benchmark\_Road (P556)14.CADD - DWG\4.7\_Trim\CAD\_Sheets\0570B05-rhc-D5-detailed\_20070100.dwg



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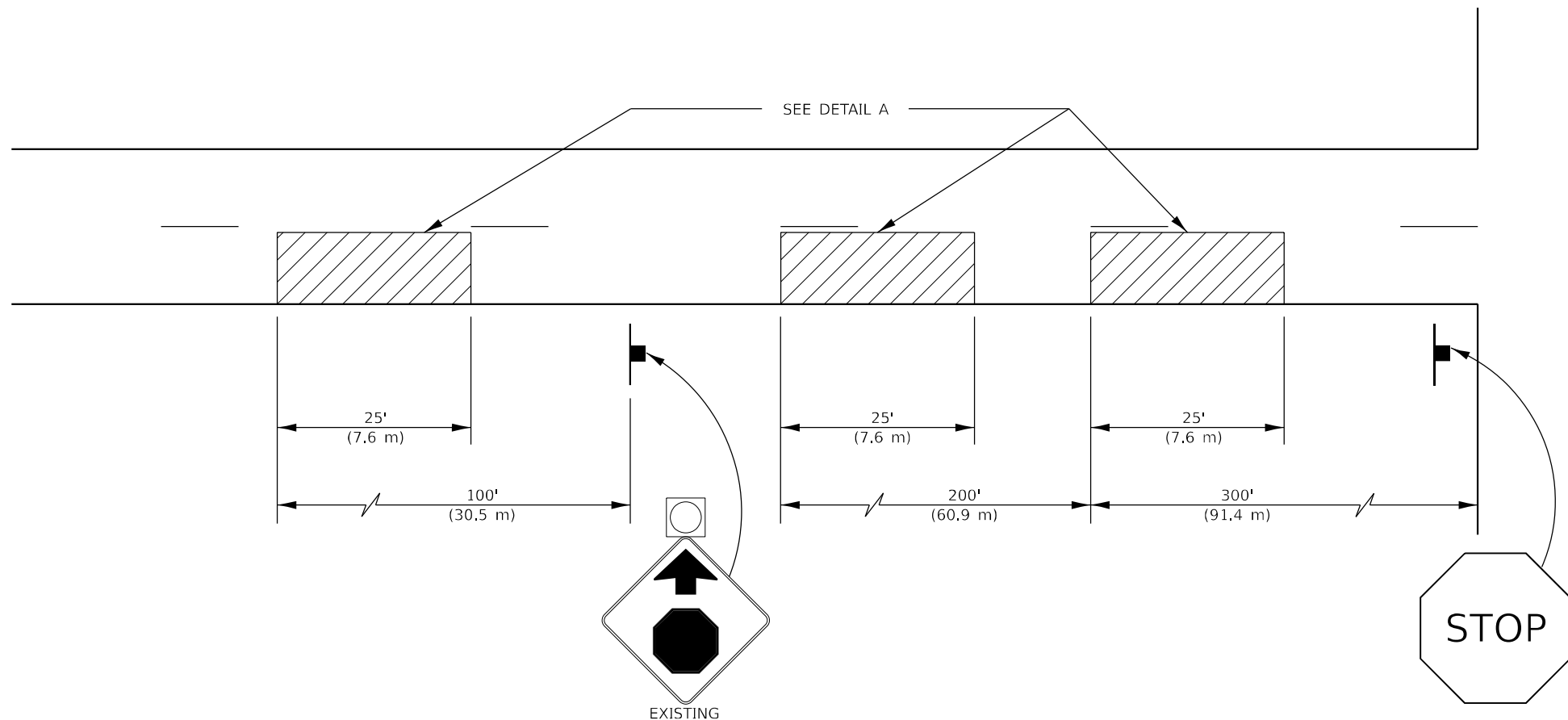
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	DRAWN - BAB	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - TBP	REVISED -
PLOT DATE = 12/12/2022	DATE - 12/2022	REVISED -

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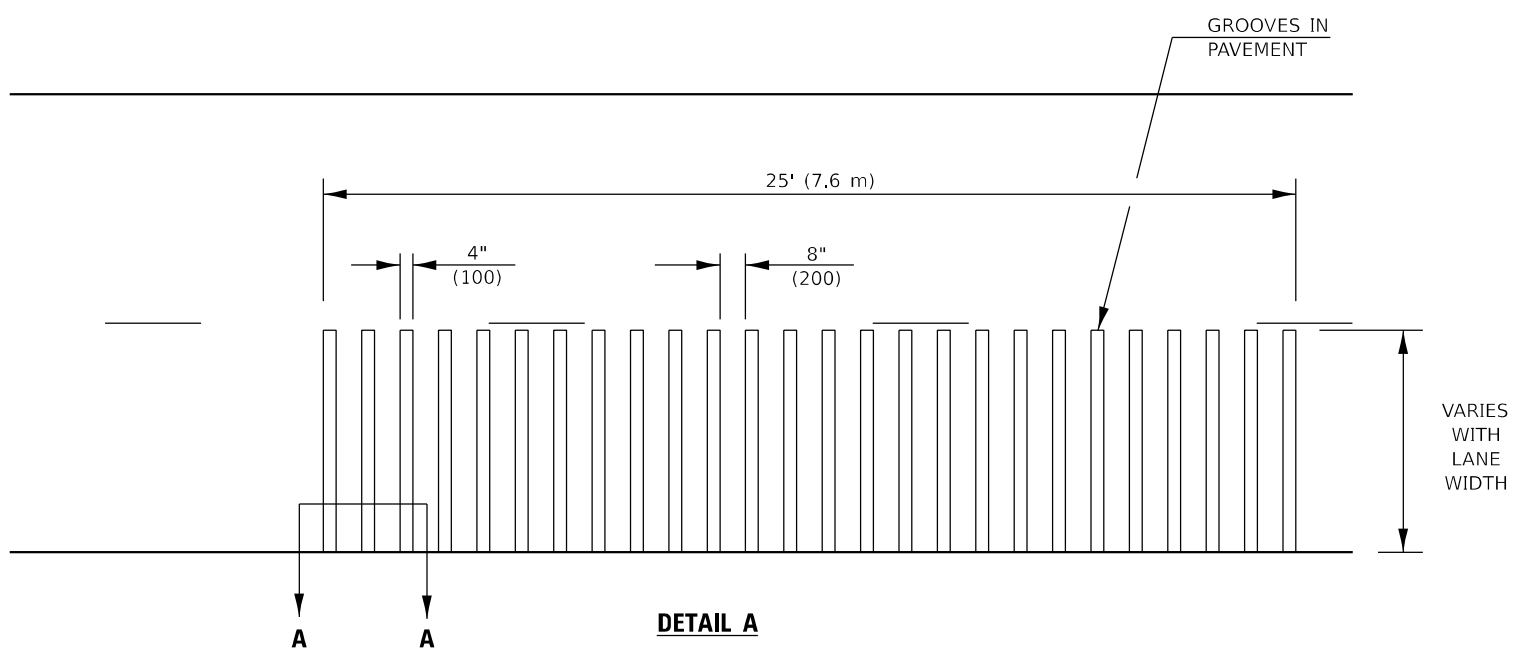
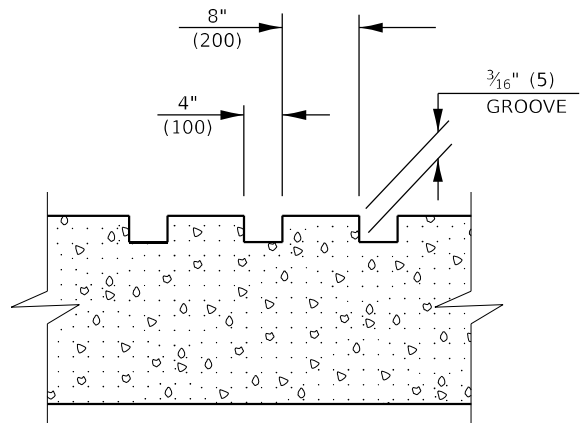
**SURVEY MONUMENT COVER ASSEMBLY**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. Z0070100				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	92
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



- GENERAL NOTES**
1. ALL GROOVES SHALL BE CONSTRUCTED USING A 4" (100 mm) MILLING HEAD OR SERIES OF 4" (100 mm) MILLING HEADS CAPABLE OF CUTTING TO THE SPECIFIED DEPTH OR ANY VARIABLE DEPTH.
  2. THIS WORK WILL BE MEASURED FOR PAYMENT PER EACH 25' (7.6 m) INDIVIDUAL RUMBLE STRIP APPLIED AND PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR RUMBLE STRIP, WHICH PRICE SHALL INCLUDE ALL EQUIPMENT, MATERIAL, LABOR AND OTHER ITEMS REQUIRED TO INSTALL EACH INDIVIDUAL RUMBLE STRIP.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. Z0055300 MODIFIED**

MODEL: D:\default...  
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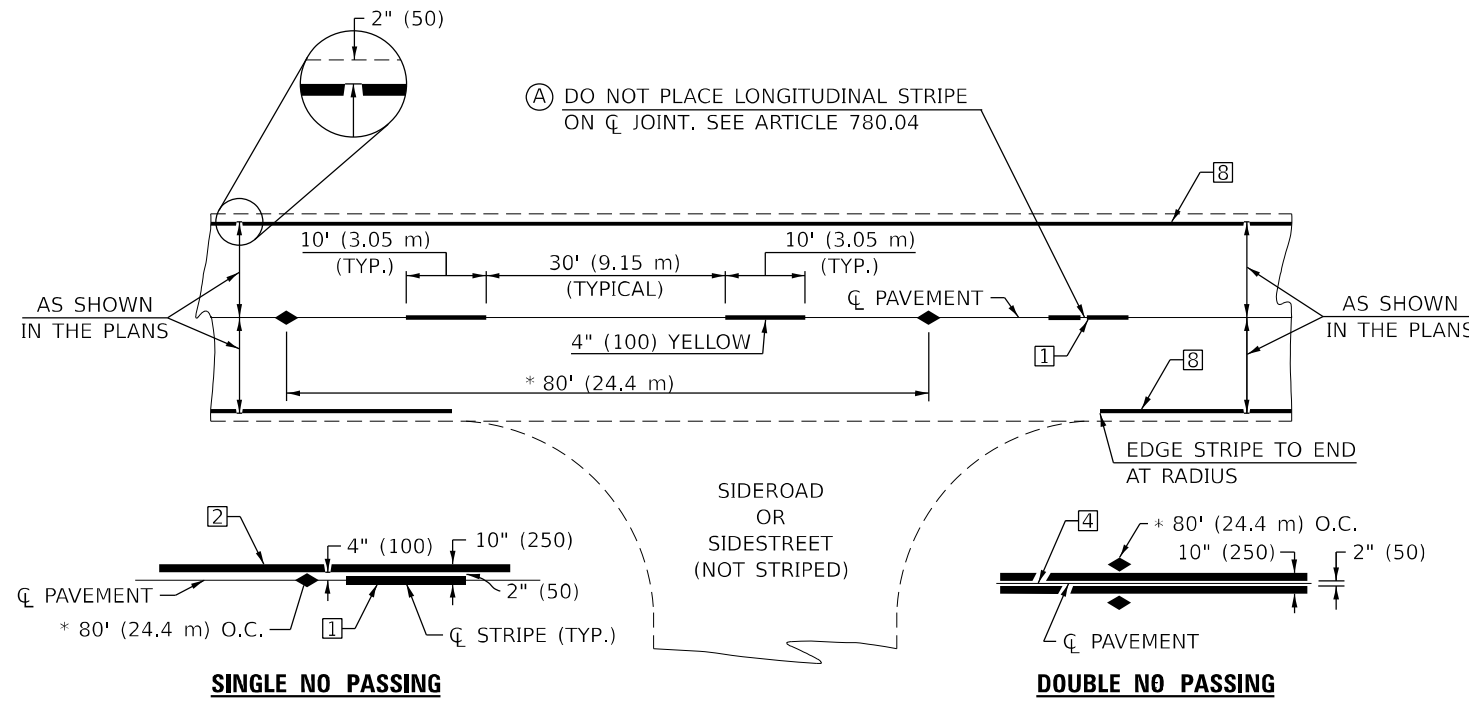


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	DATE - 12/2022	REVISED -

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**RUMBLE STRIP (ADVANCE OF INTERSECTIONS)**  
 SCALE: N.T.S.    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	93
CONTRACT NO. 70B05				
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\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

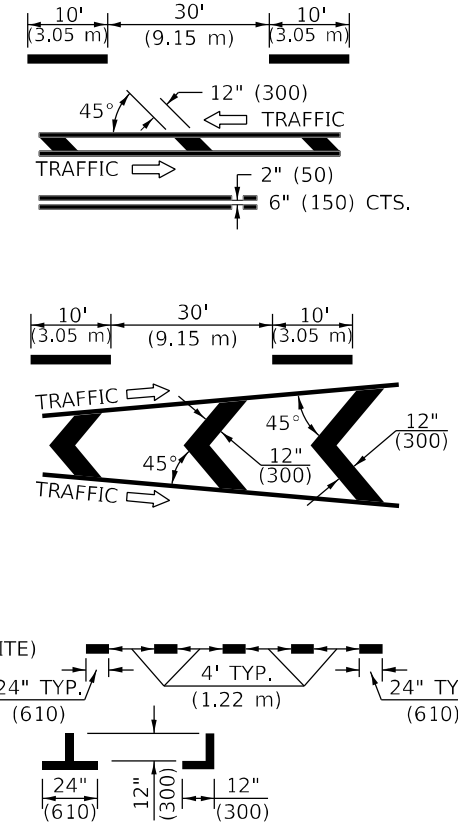
**TWO LANE/TWO WAY**

**TYPICAL PAVEMENT MARKING LEGEND**

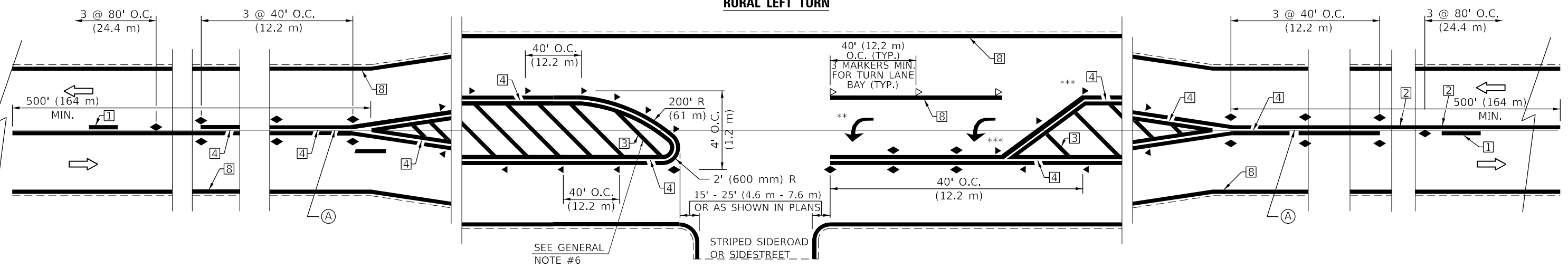
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

**TYPICAL PAVEMENT MARKERS LEGEND**

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



**RURAL LEFT TURN**



\*\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.  
 \*\* TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

MODEL: D:\p\11\110577E-Bernmark\_Road (P55E)\V\_CADD - DWG\4.7\_Tpm\CAD\_Sheets\DS70B05-rht-DS-detailed\_7800AAA.dgn  
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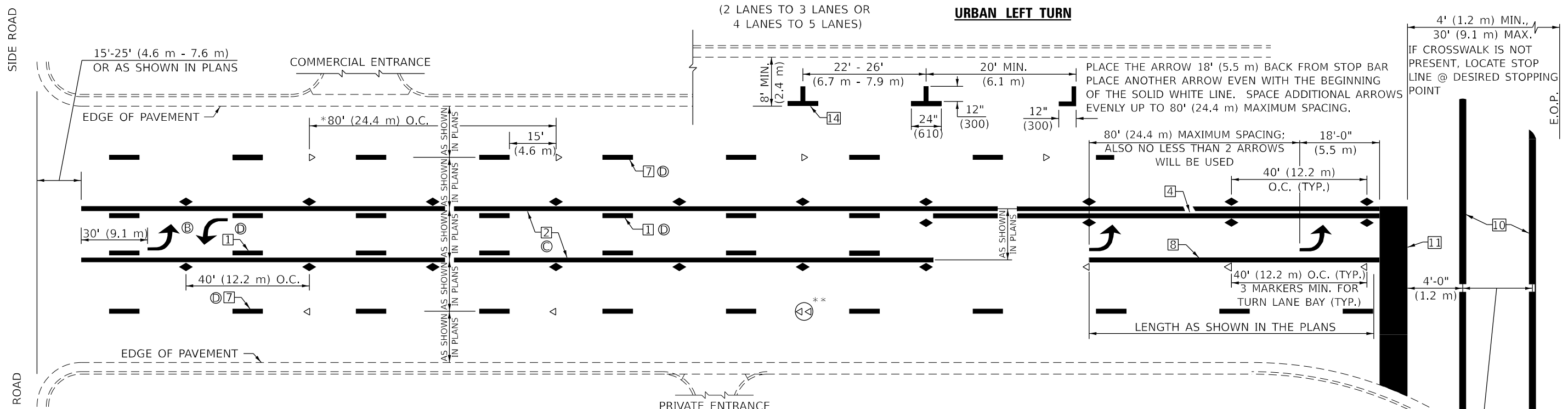
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**PAVEMENT MARKING AND MARKERS  
 (RURAL & URBAN APPLICATIONS)**

SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. 7800AAA**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	94
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

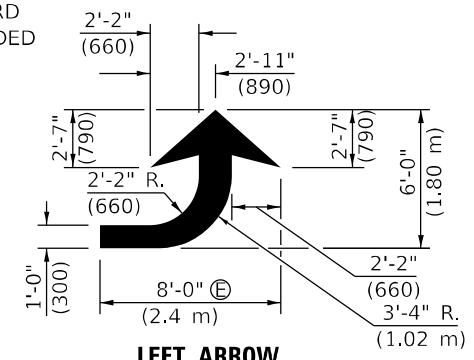


\* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

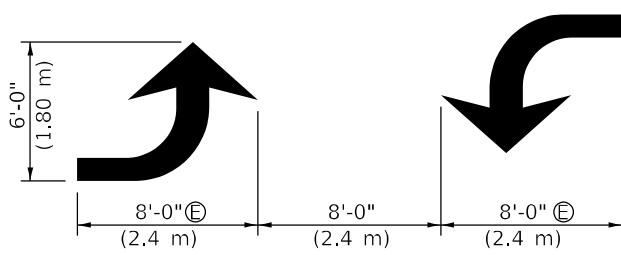
\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

**GENERAL NOTES:**

- Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- Ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)

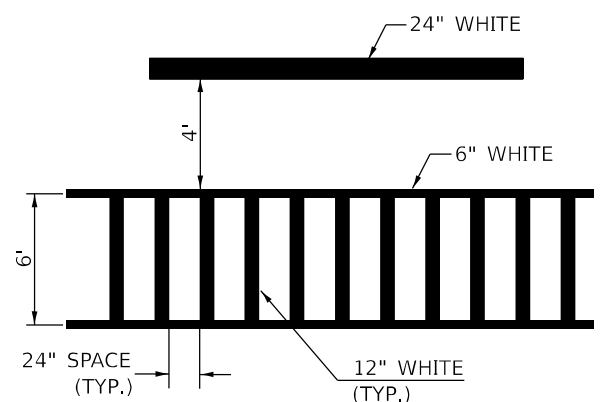


**LEFT ARROW**  
REVERSE FOR RIGHT ARROW  
AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
(WHITE)

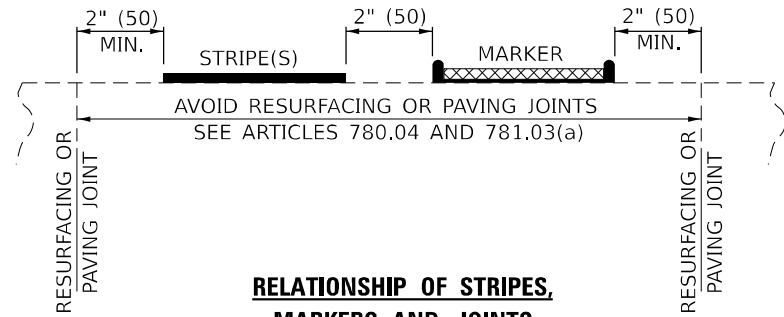


**TYPICAL DOUBLE TURN ARROWS (WHITE)**

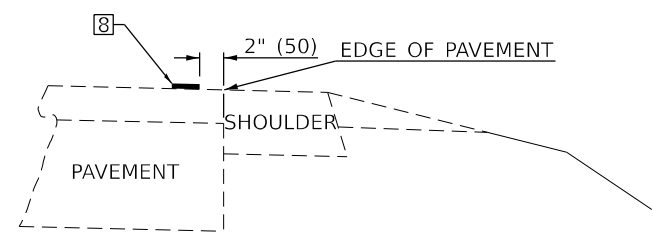
**BLOOMINGTON-NORMAL CITY LIMITS ONLY**



**TYPICAL SPACING FOR CROSSWALKS & STOP BARS**



**RELATIONSHIP OF STRIPES, MARKERS AND JOINTS**



**RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT**  
(SAFETY SHOULDER OR PAVED SURFACE)  
SEE ARTICLE 780.04

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

MODEL: D:\p\11\110577E-Bernmark\_Road\_P55E\1\4\_CADD-DWG\04.7\_Trim\CAD\_Sheets\0570B05-rhc-D5-detailed\_7800AAA.dgn



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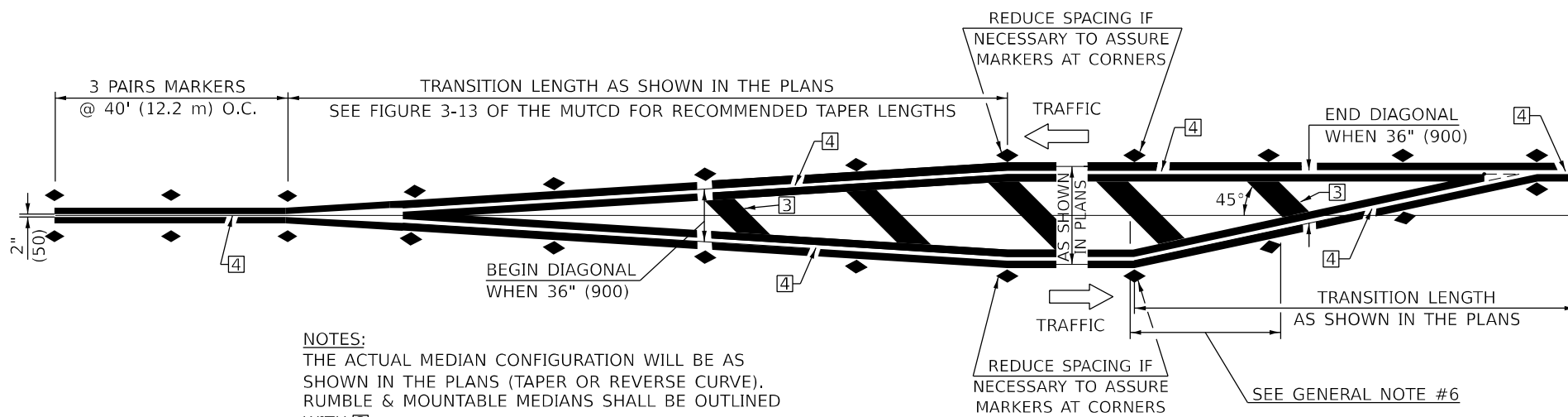
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**PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)**

SCALE: N.T.S. SHEET 2 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	95
			CONTRACT NO. 70B05	
ILLINOIS FED. AID PROJECT				

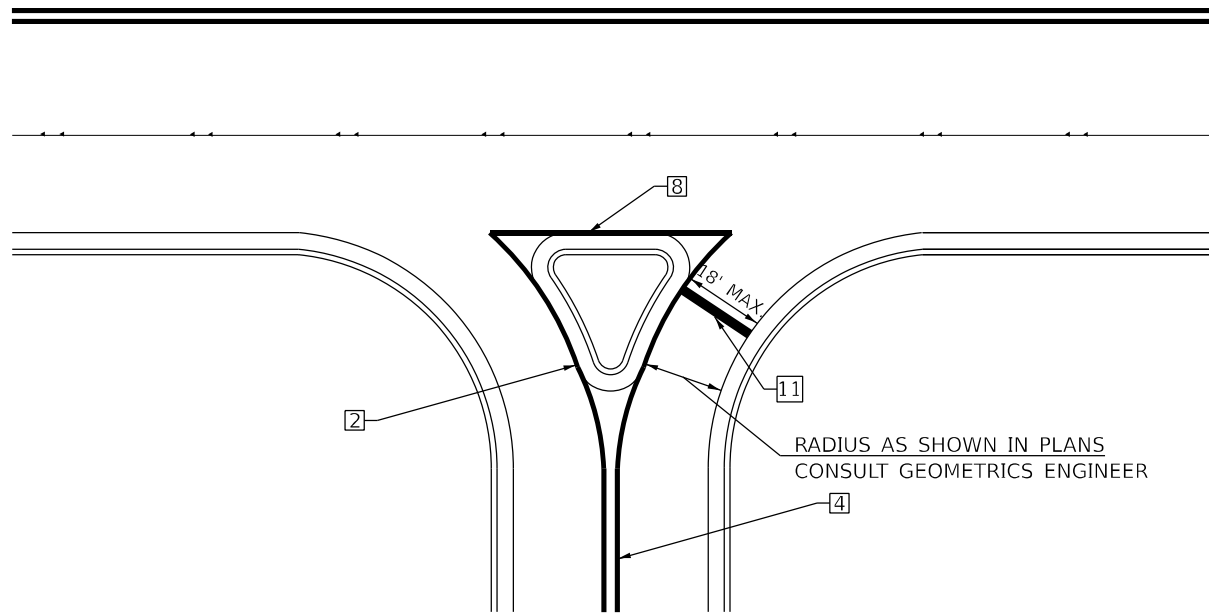


NOTES:  
THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE). RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

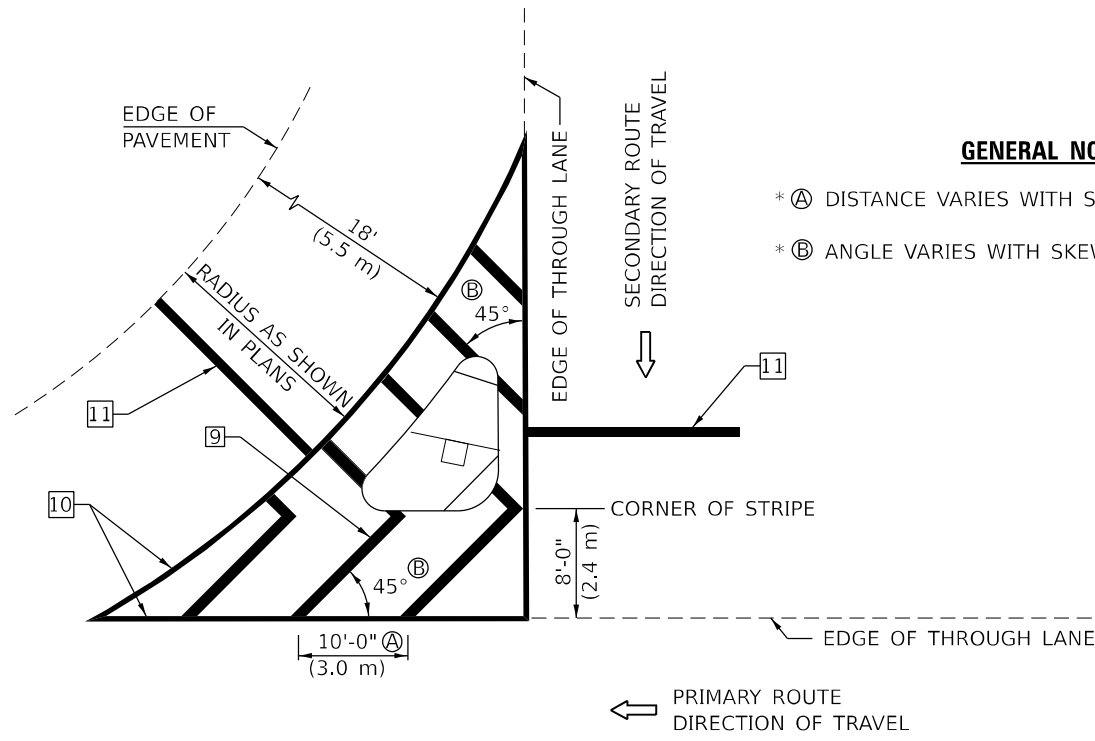
**TYPICAL MEDIAN TRANSITIONS**

**GENERAL NOTES**

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,  
<30 MPH USE 15' (<50 km/h USE 4.5 m)  
30-45 MPH USE 20' (50-75 km/h USE 6.0 m)  
>45 MPH USE 30' (>75 km/h USE 9.0 m)



**RIGHT IN - RIGHT OUT ACCESS**



**GENERAL NOTES**

- \* A DISTANCE VARIES WITH SKEW OF INTERSECTION.
- \* B ANGLE VARIES WITH SKEW OF INTERSECTION.

**ISLAND**

\* FOR RIGHT TURN LANE AND ISLAND STRIPING CONSULT GEOMETRICS ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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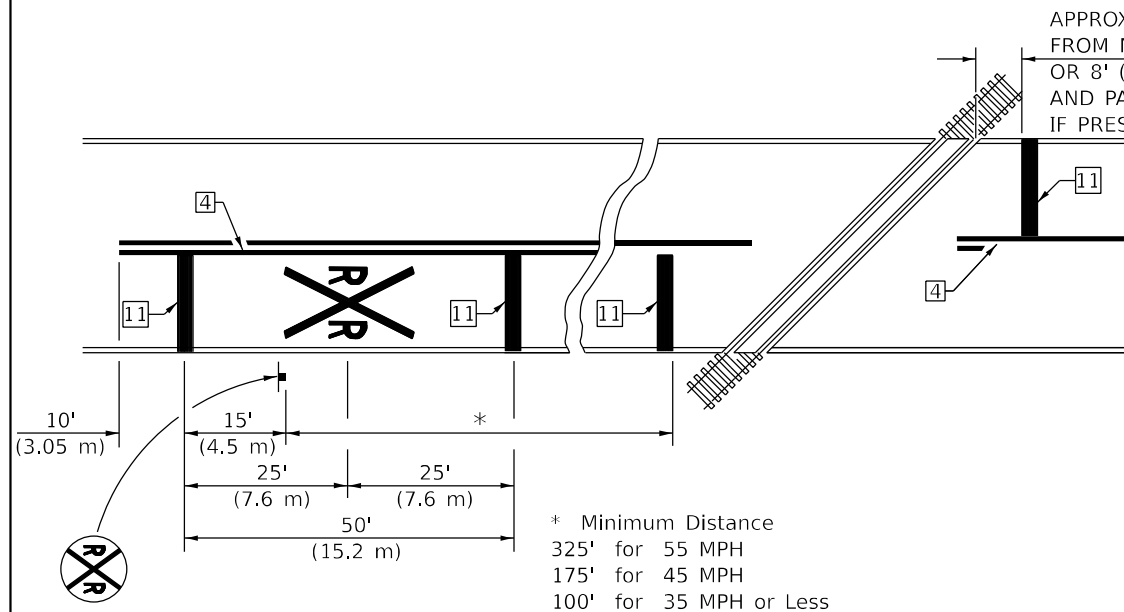
**STATE OF ILLINOIS  
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**PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)**

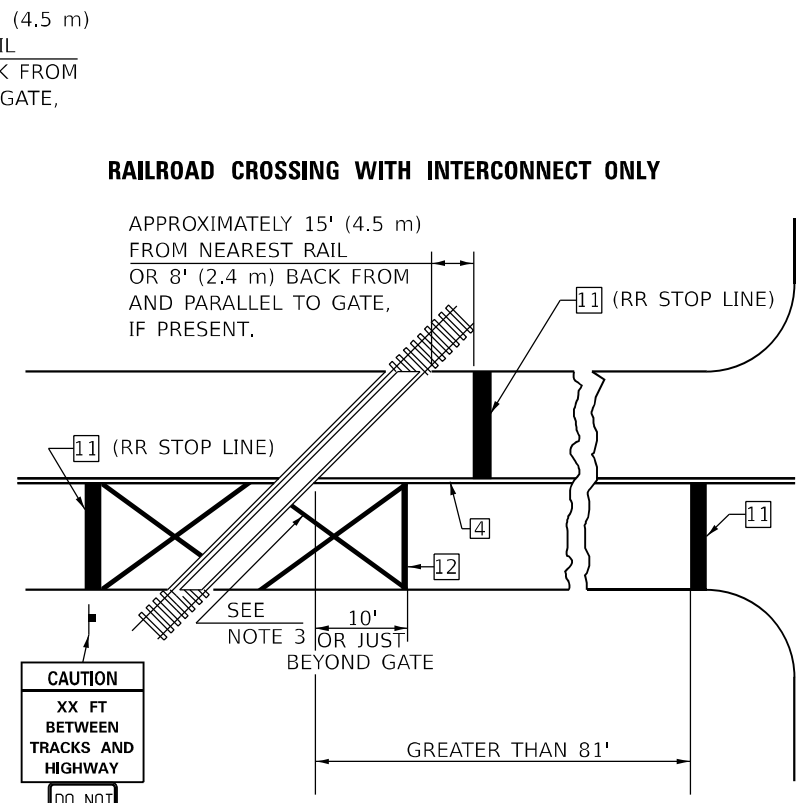
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DISTRICT 5 DETAIL NO. 7800AAA				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	96
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

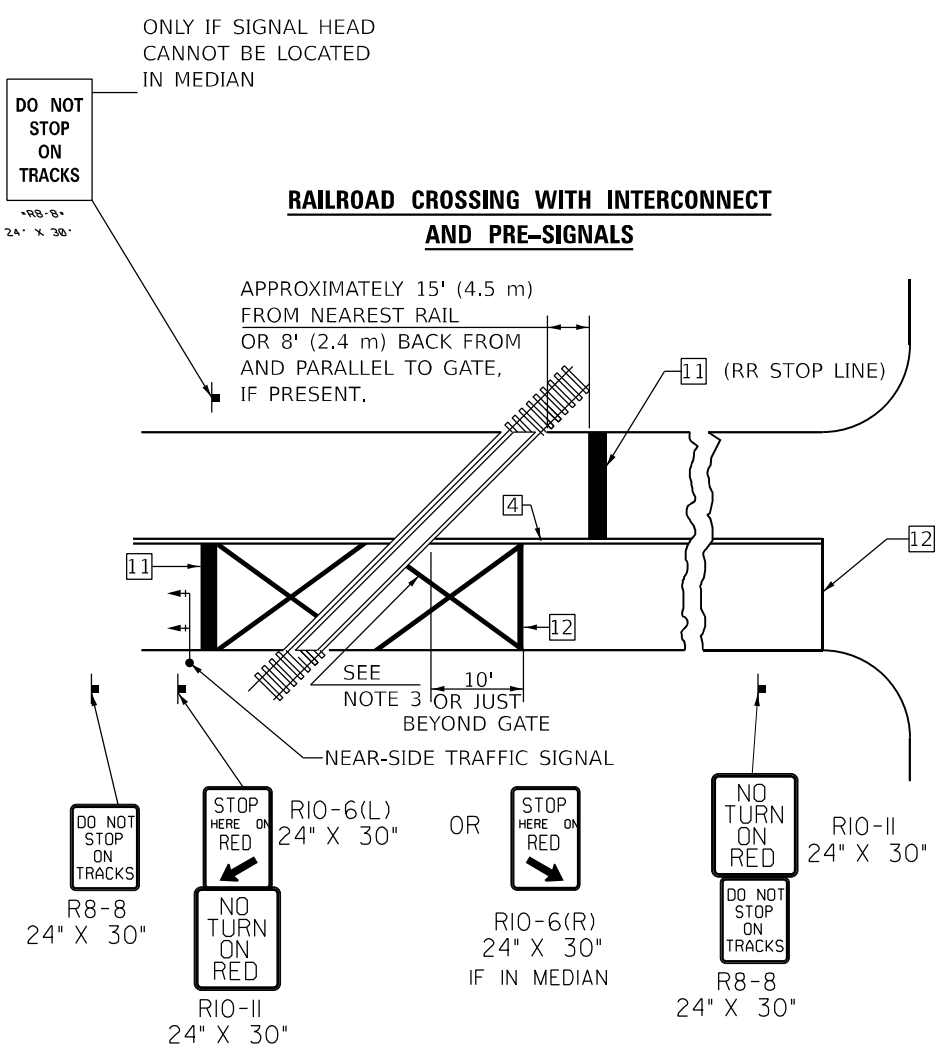




**PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING**



**RAILROAD CROSSING WITH INTERCONNECT ONLY**



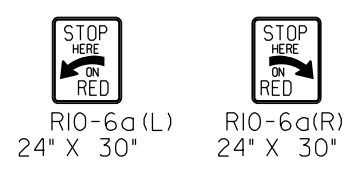
**RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS**

**GENERAL NOTES**

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
3. 6" WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8' CENTER TO CENTER.
4. XX DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICH EVER IS CLOSEST, ROUNDED DOWN TO NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
5. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.

**SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING**

**ALTERNATE SIGNS**



**NOTES**

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 7800AAAA**

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DATE -	12/2022	REVISION	

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)**

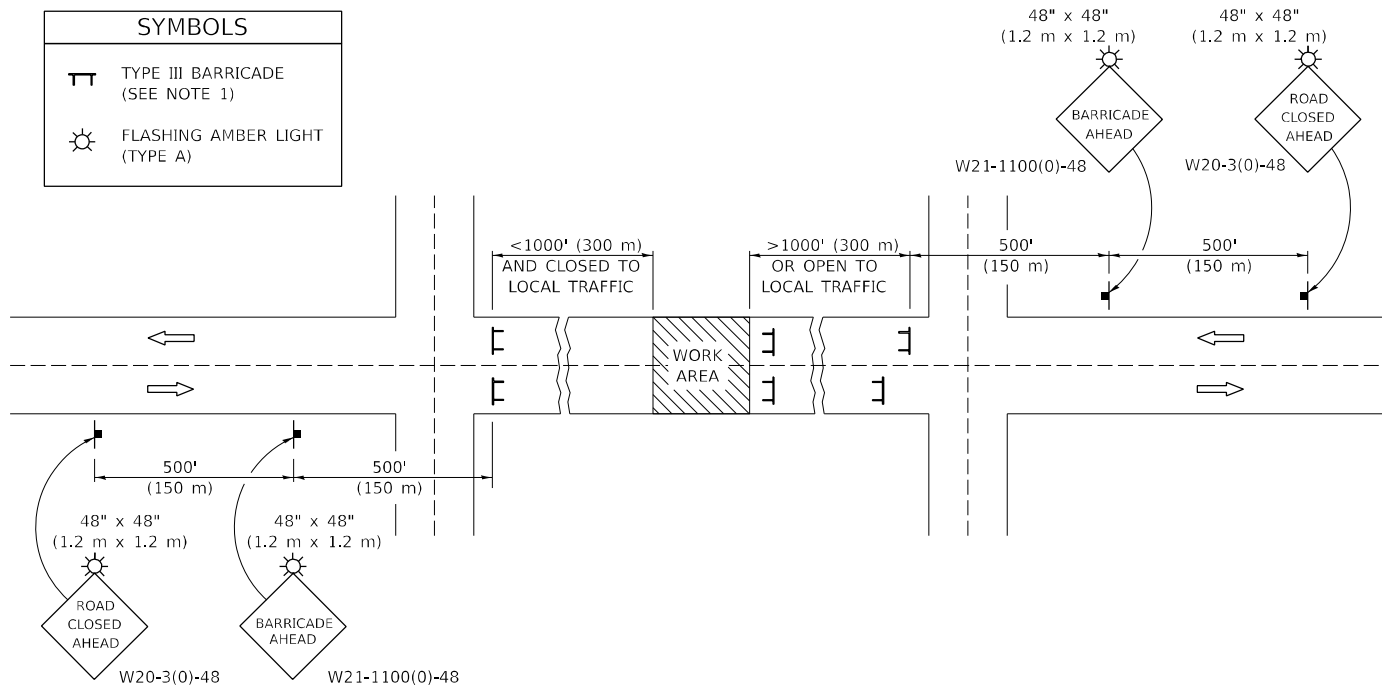
SCALE: N.T.S. SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	97
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

# ROAD CLOSURE

# SIDEROAD / STREET CLOSURE

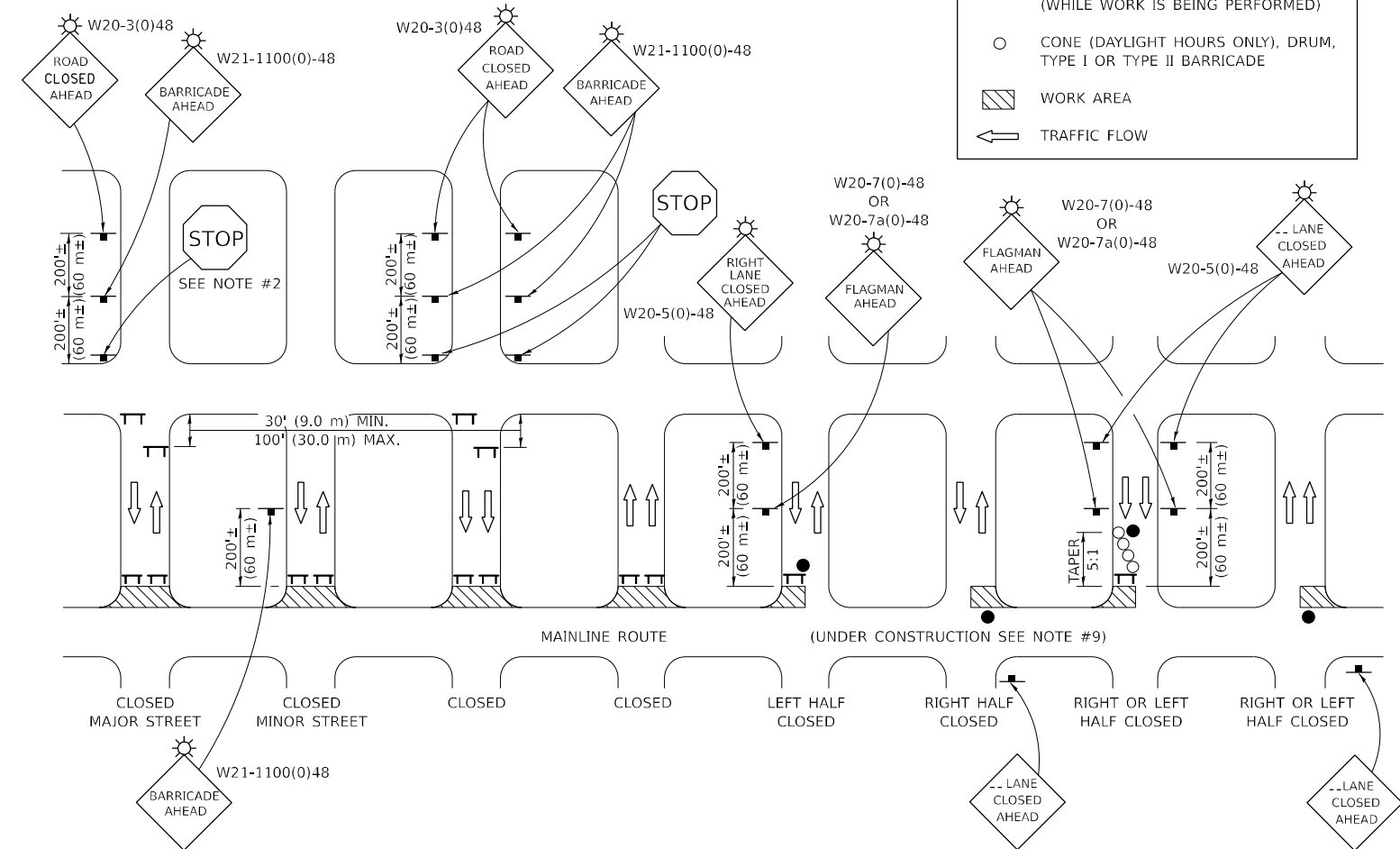
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



## GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



## GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

## DISTRICT 5 DETAIL NO. 7020000

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 DRAWN - BAB  
 CHECKED - TBP  
 DATE - 12/2022

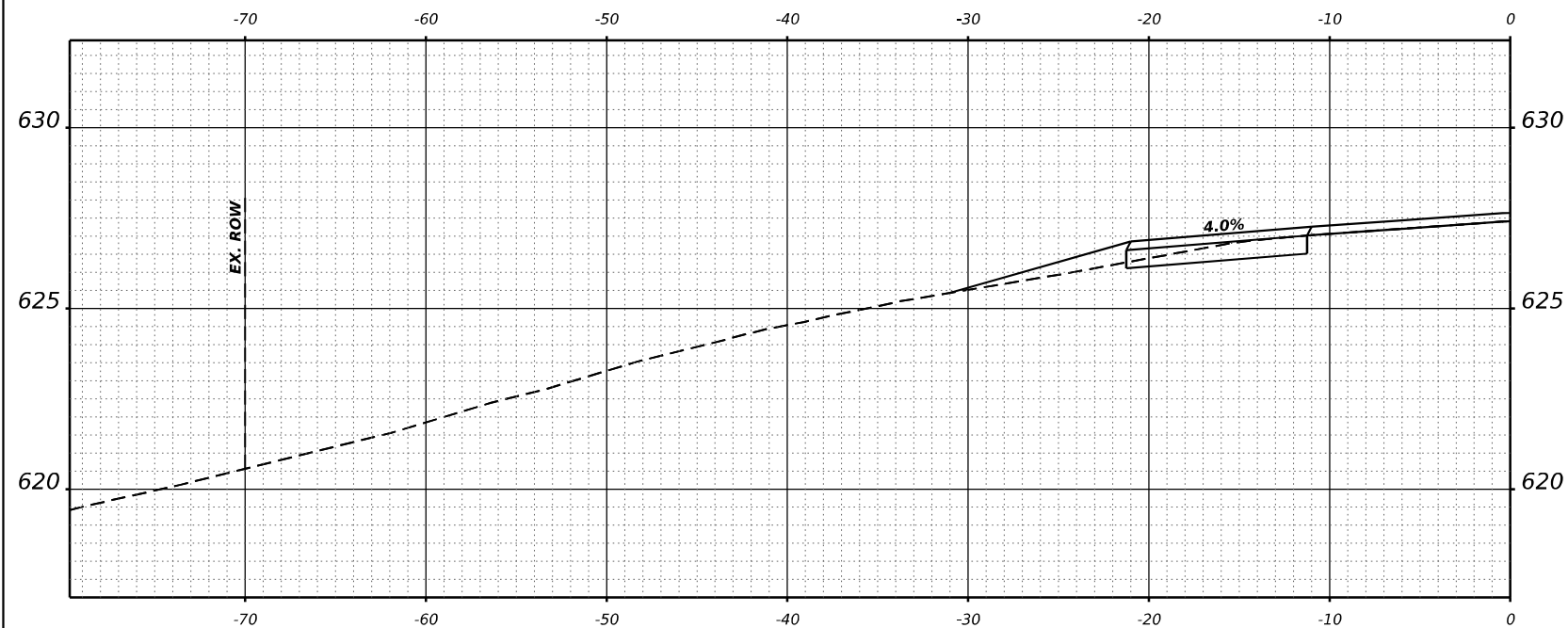
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

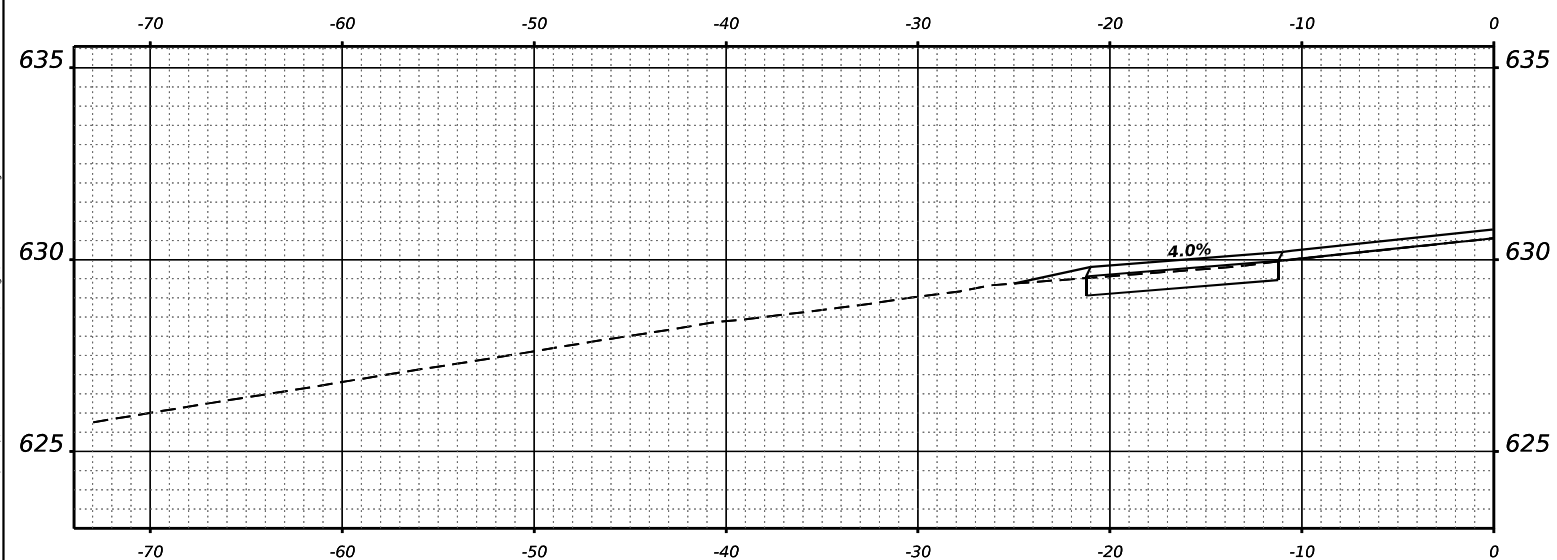
TRAFFIC CONTROL & PROTECTION DEVICES  
 (ROAD & SIDEROAD /STREET CLOSURES)

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	98
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



**STA 21+93.54  
AGG P.E. LT**



**STA 20+61.65  
AGG P.E. LT**

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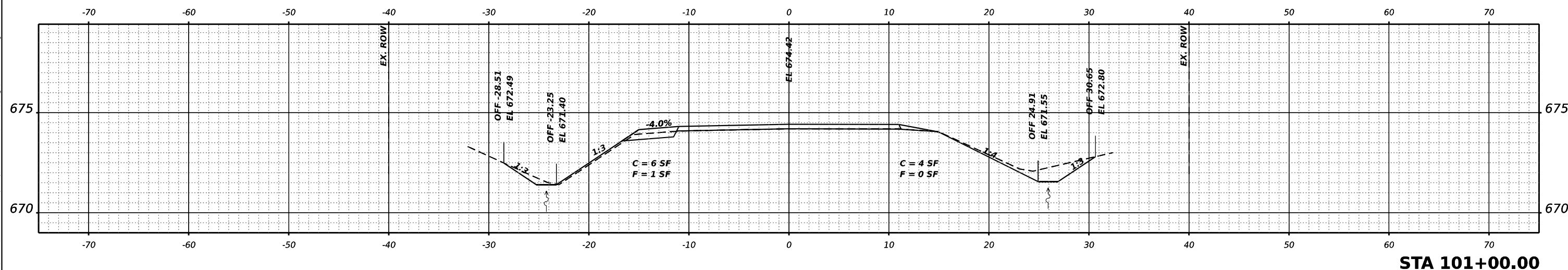
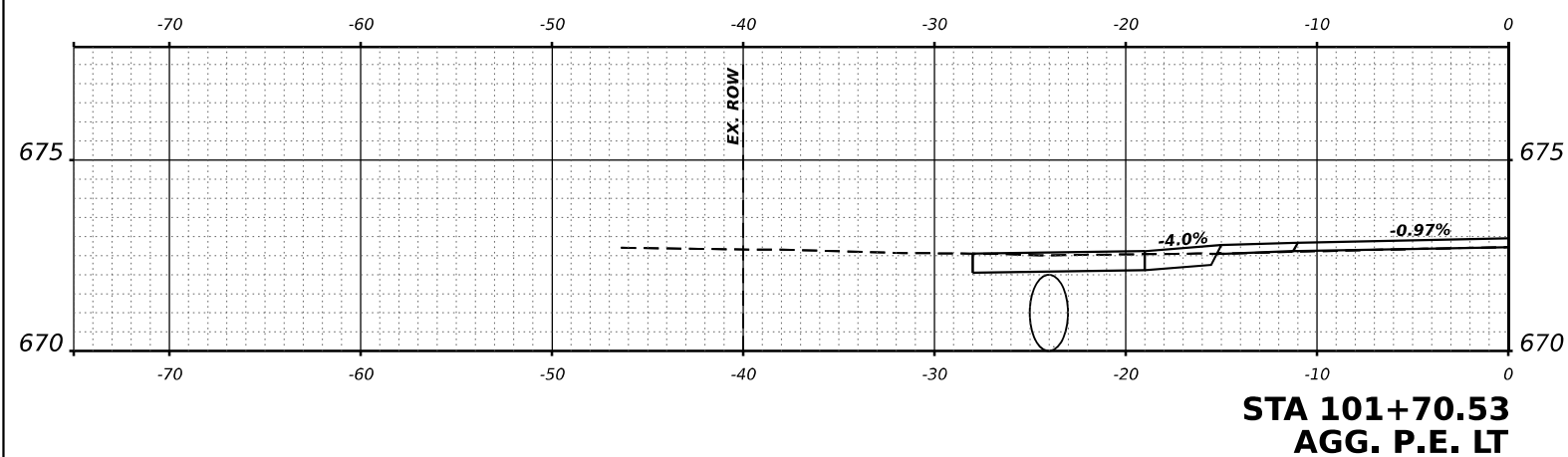
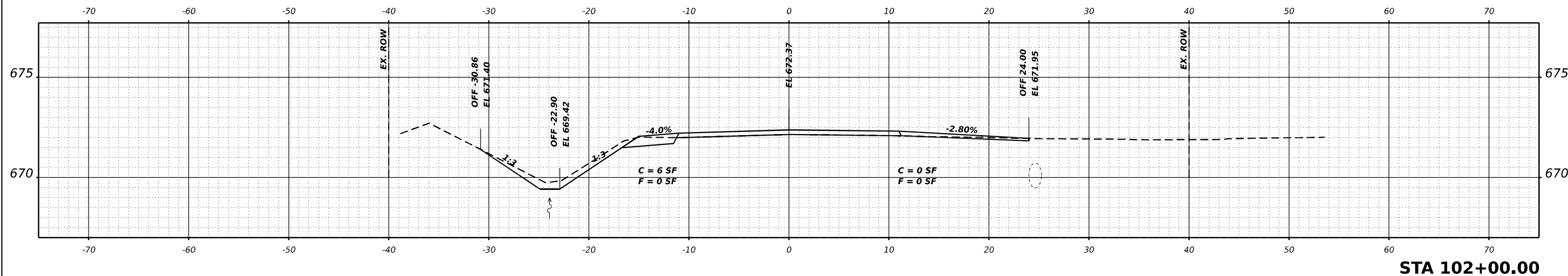
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 LICENSE NO: 184-001220

USER NAME =	bbillhartz	DESIGNED -	EKF	REVISED -	
DRAWN -	BAB	CHECKED -	TBP	REVISED -	
DATE -	12/2022	REVISIONS			

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<b>CROSS SECTIONS</b>			
SCALE:	SHEET 1	OF 13 SHEETS	STA. 20+61.65 TO STA. 21+93.54

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	99
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



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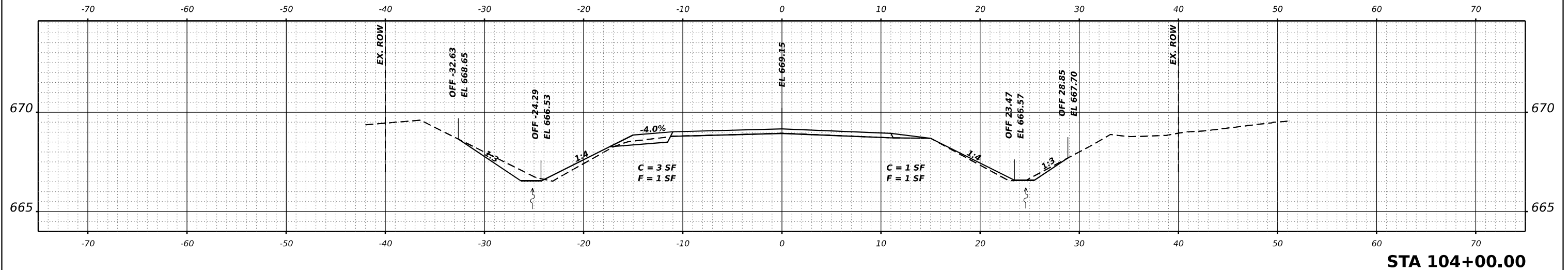
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**CROSS SECTIONS**

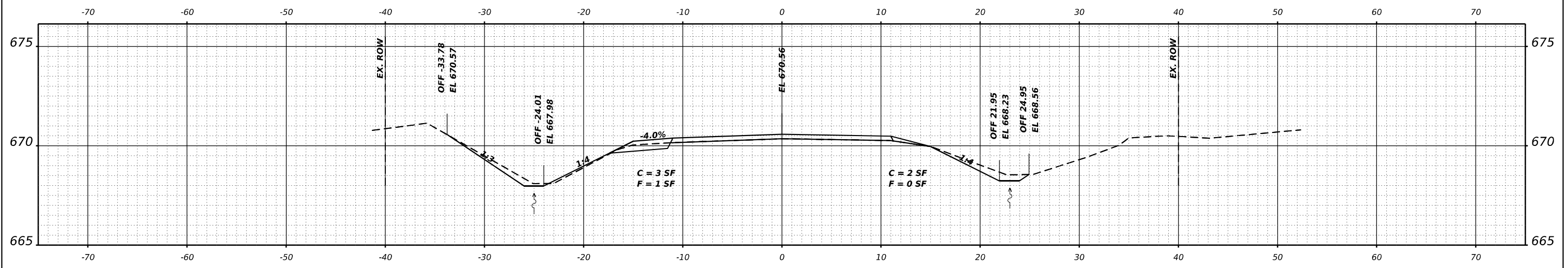
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CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

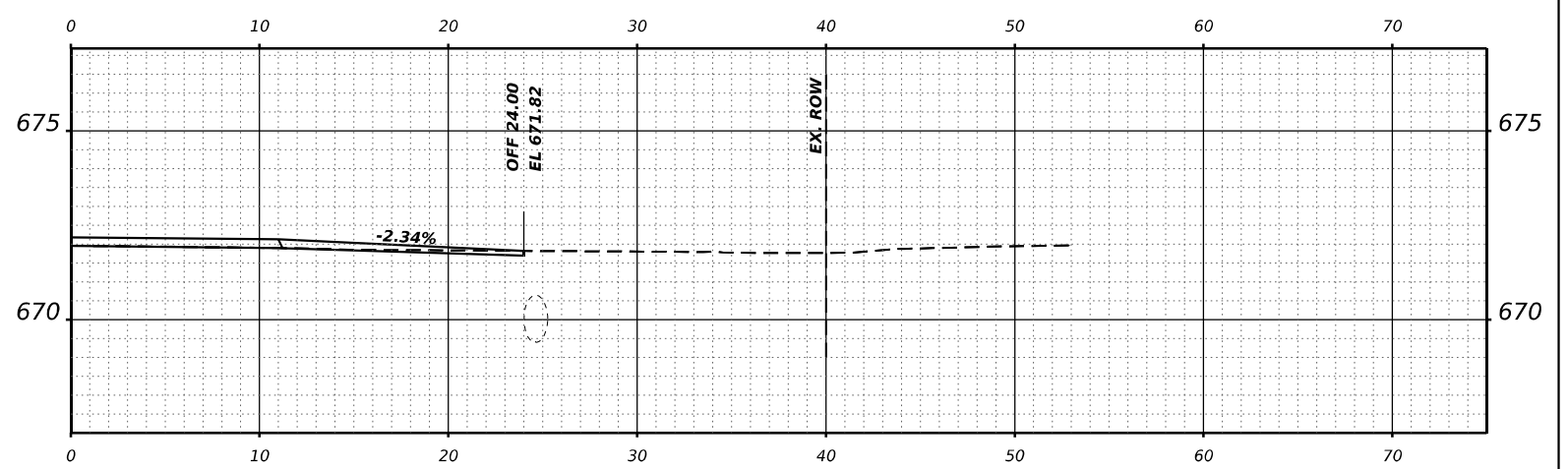
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**STA 104+00.00**



**STA 103+00.00**



**STA 102+09.68  
PCC C.E. RT**



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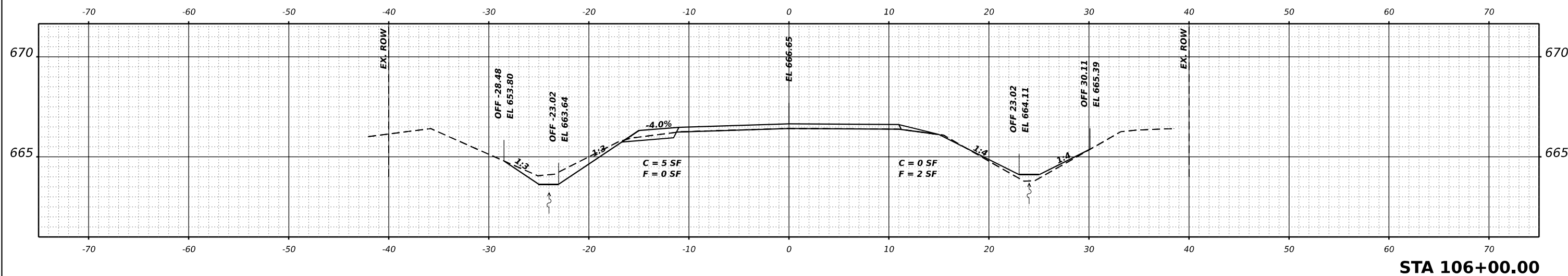
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**CROSS SECTIONS**

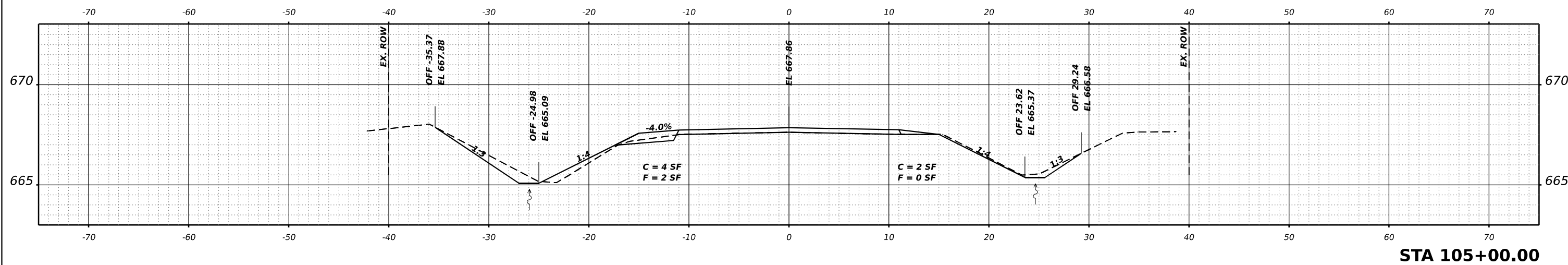
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70B05				
ILLINOIS		FED. AID PROJECT		

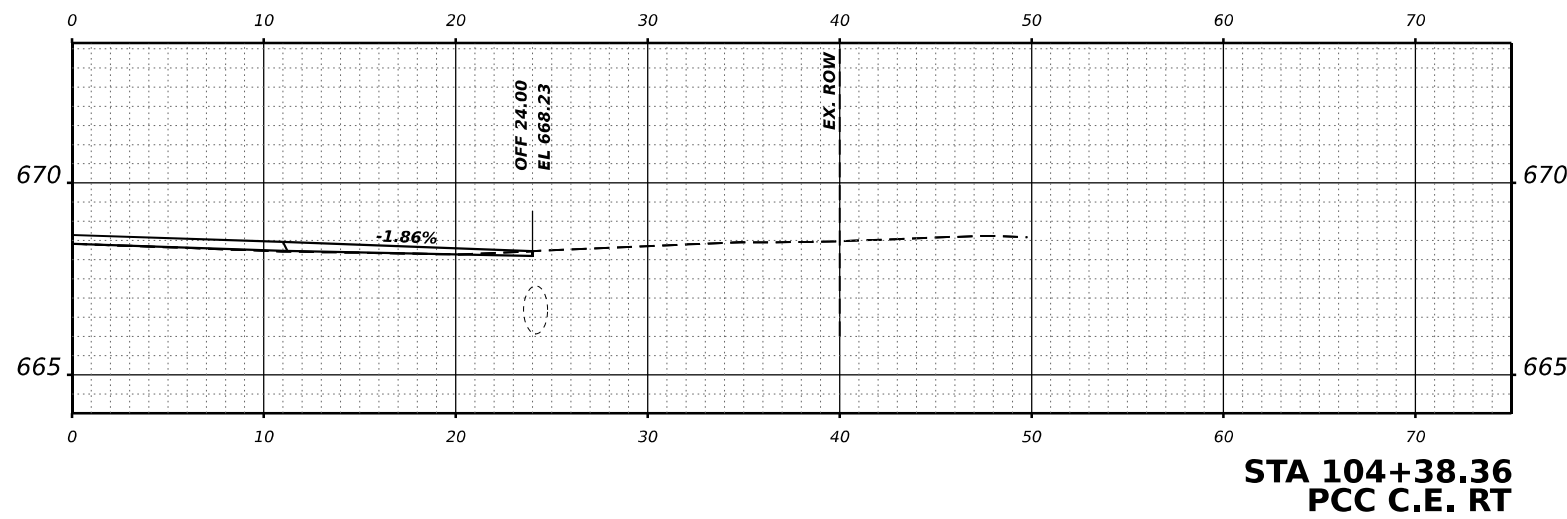
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**STA 106+00.00**



**STA 105+00.00**



**STA 104+38.36  
PCC C.E. RT**



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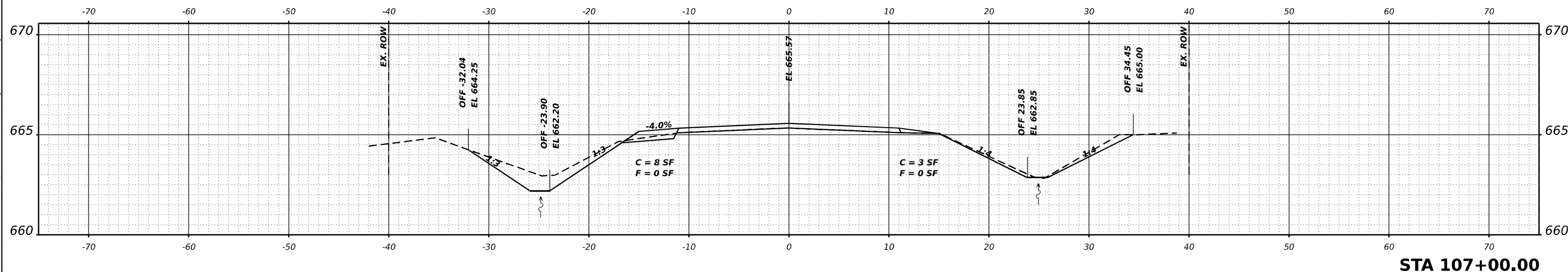
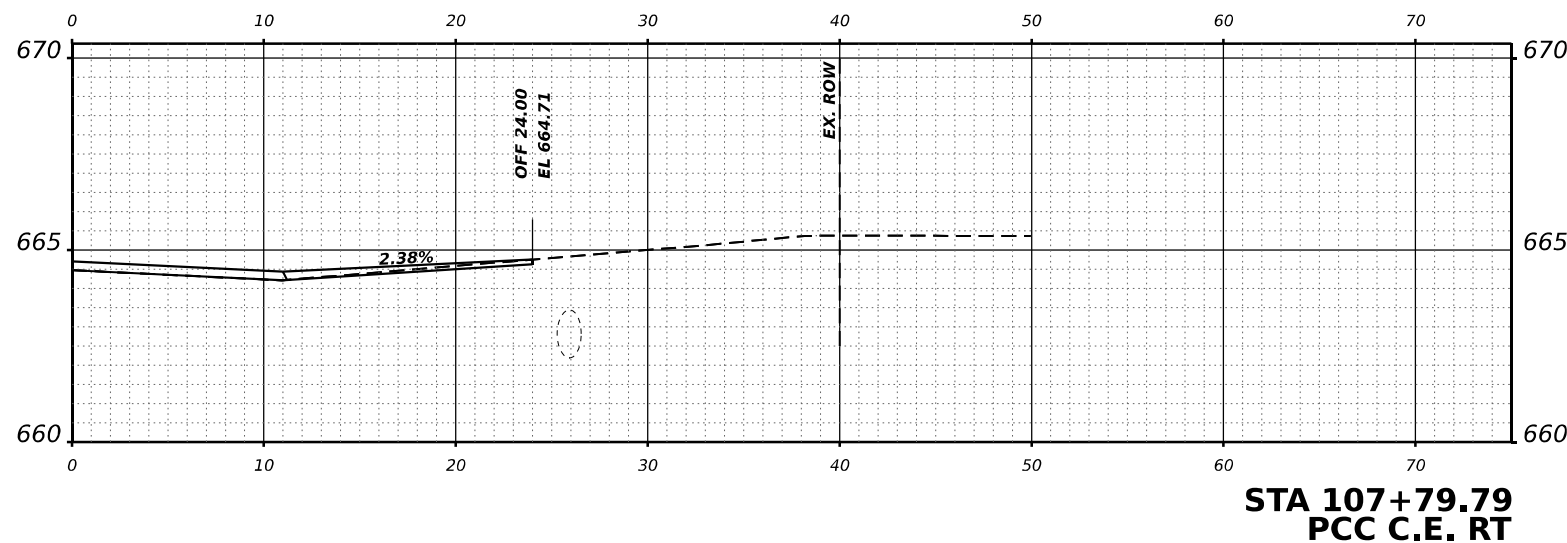
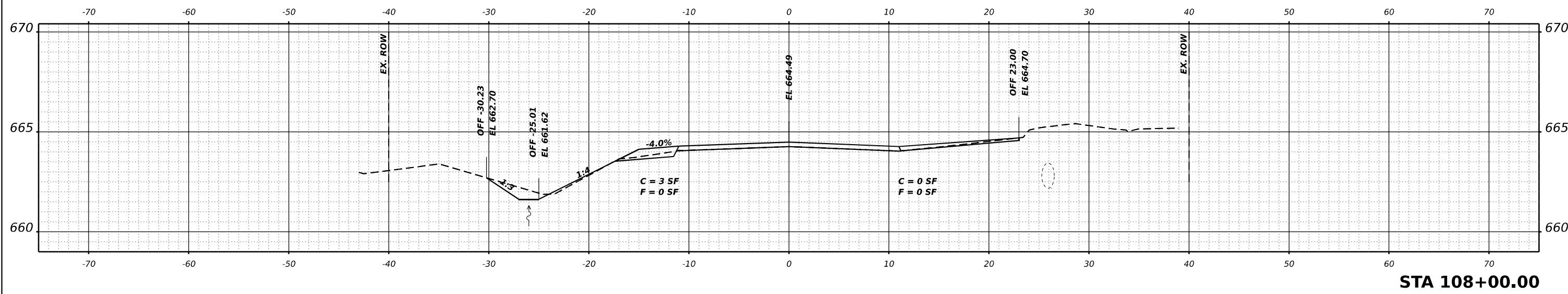
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DRAWN -	BAB	REVISIONS			
CHECKED -	TBP				
DATE -	12/2022				

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**CROSS SECTIONS**

SCALE: SHEET 4 OF 13 SHEETS STA. 104+38.36 TO STA. 106+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	102
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



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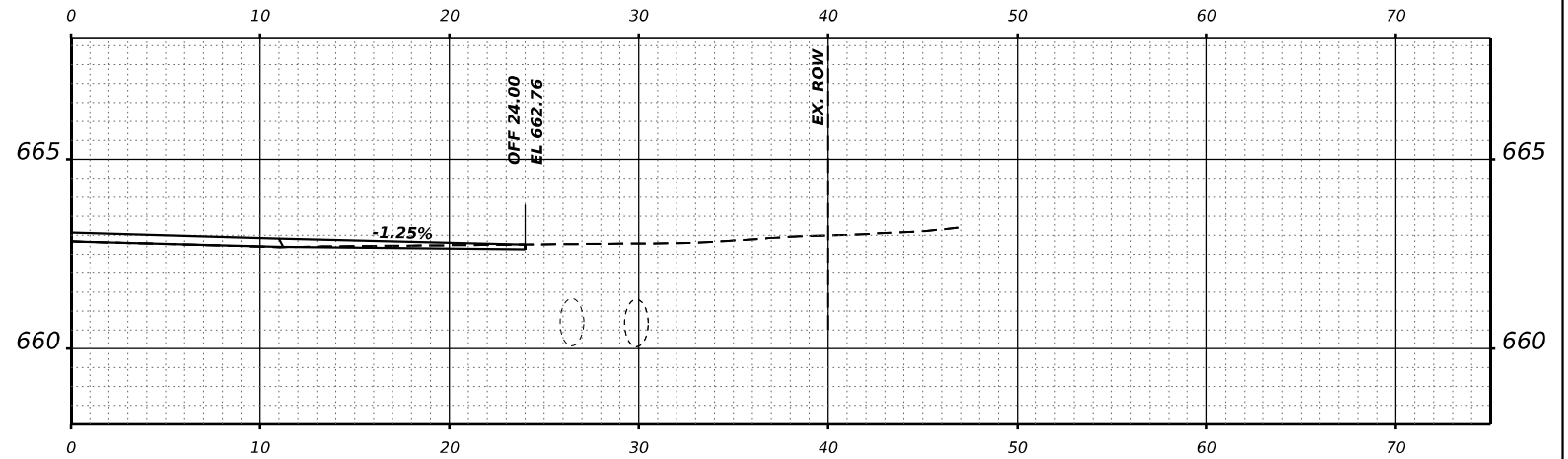
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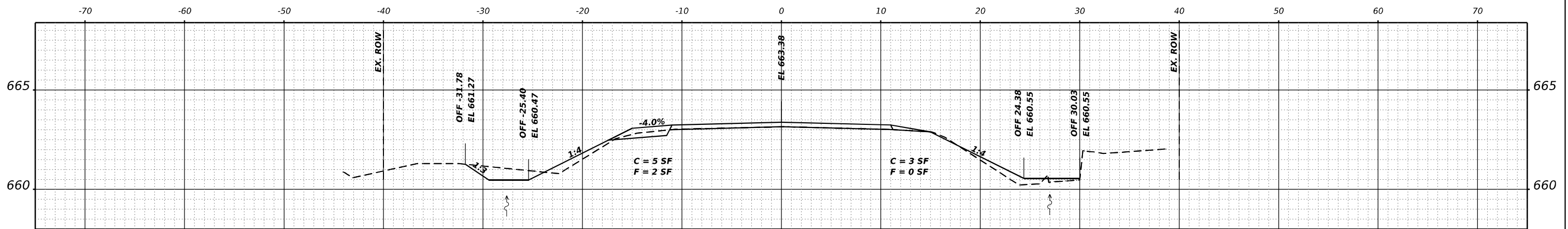
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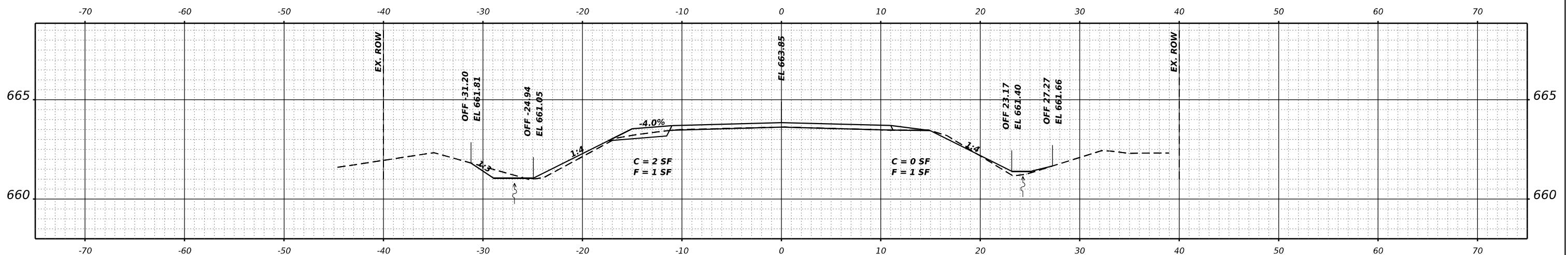
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497A	K(RS-2)	VERMILION	111	103
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



**STA 110+81.01  
PCC C.E. RT**



**STA 110+00.00**



**STA 109+00.00**

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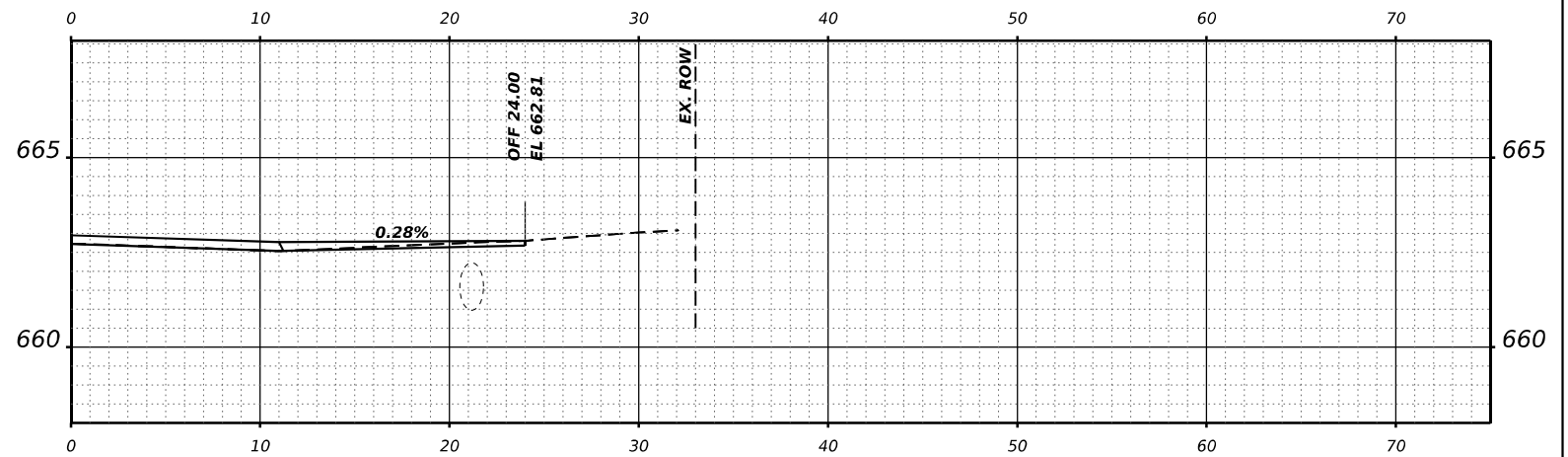
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**CROSS SECTIONS**

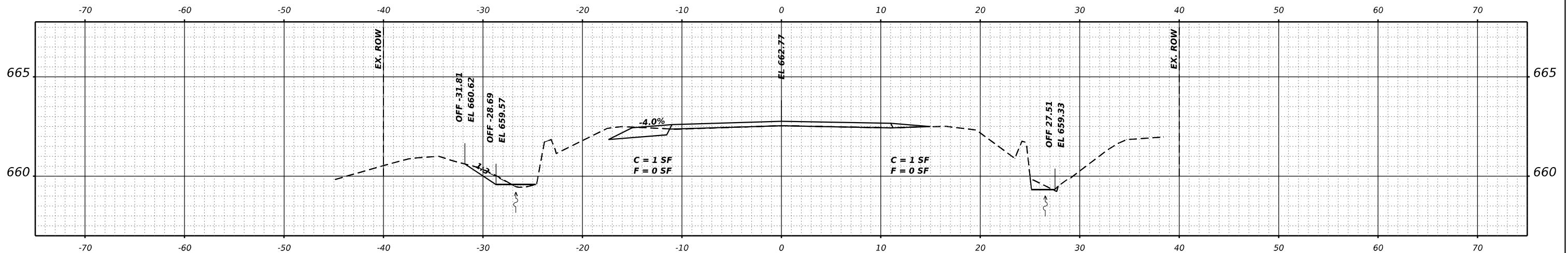
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

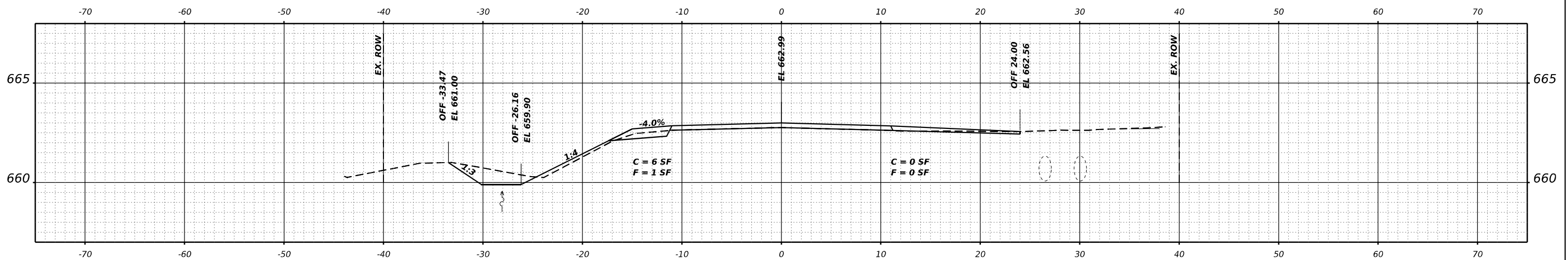




**STA 112+80.00  
HMA P.E. RT**



**STA 112+00.00**



**STA 111+00.00**

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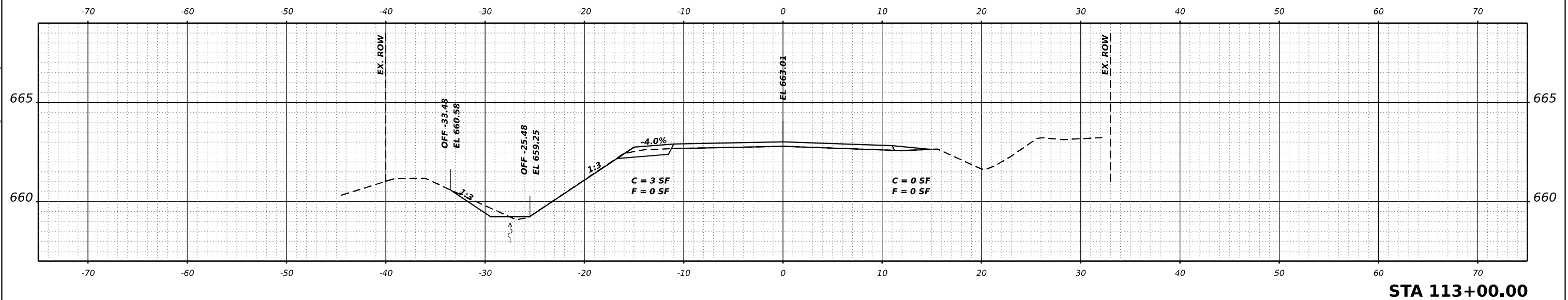
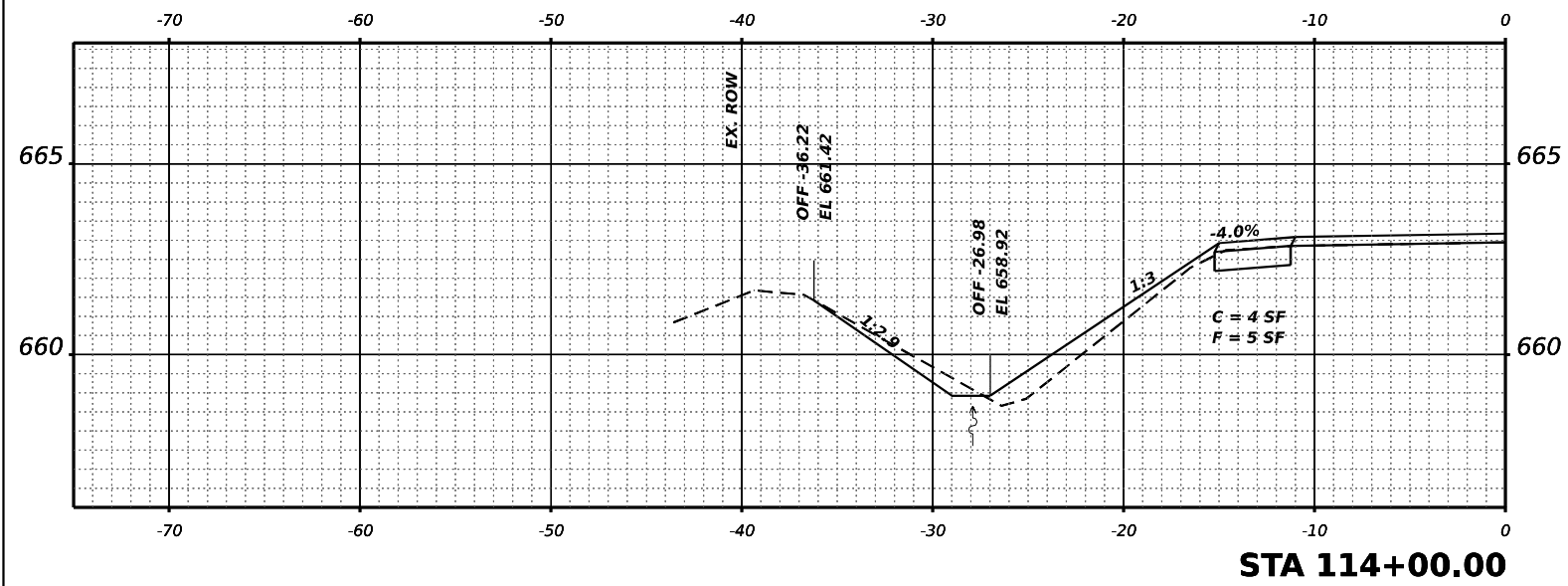
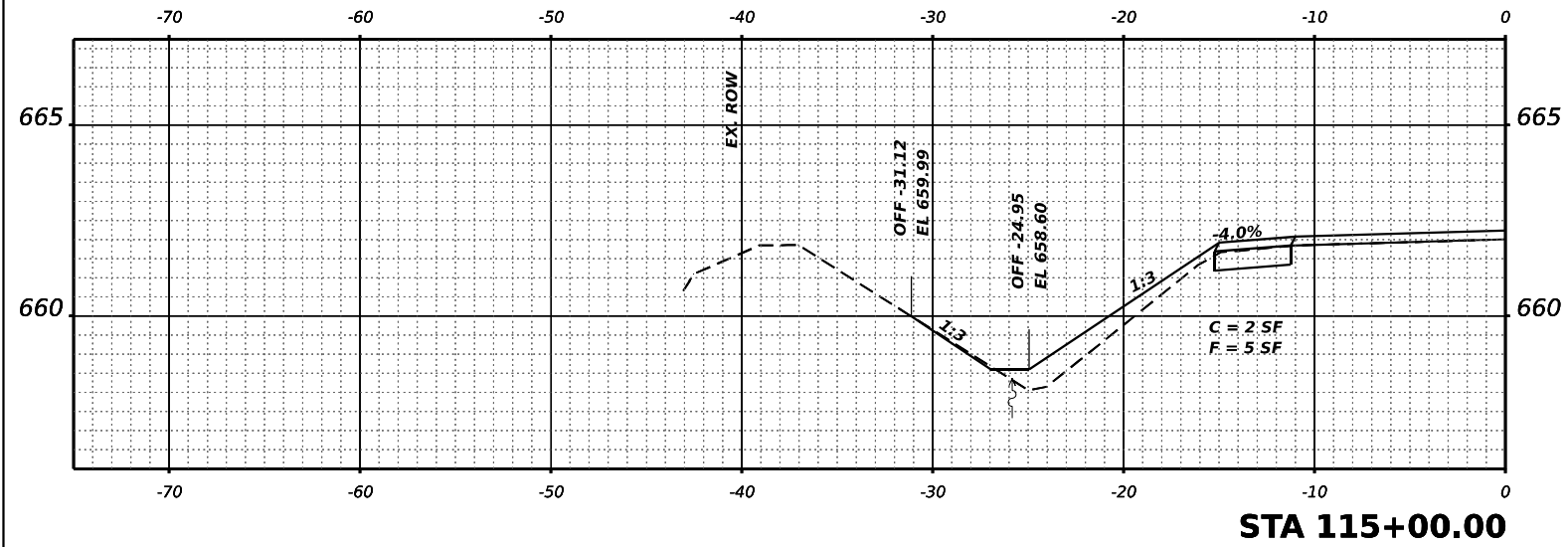
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DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: SHEET 7 OF 13 SHEETS STA. 111+00.00 TO STA. 112+80.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	105
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



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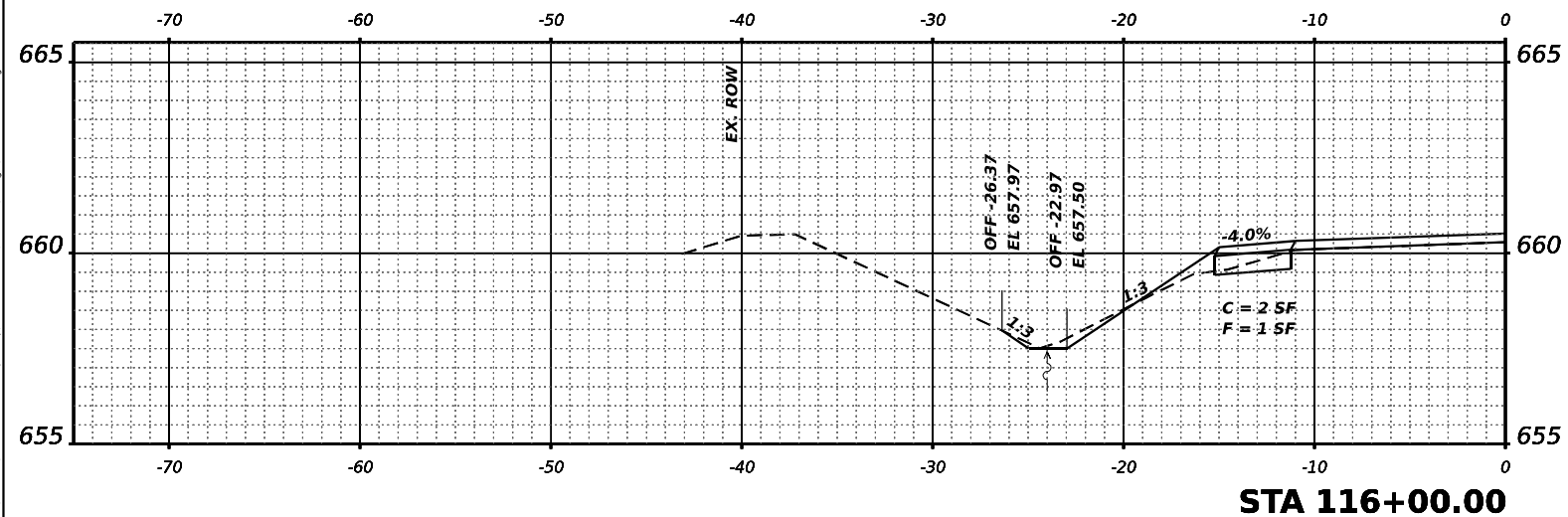
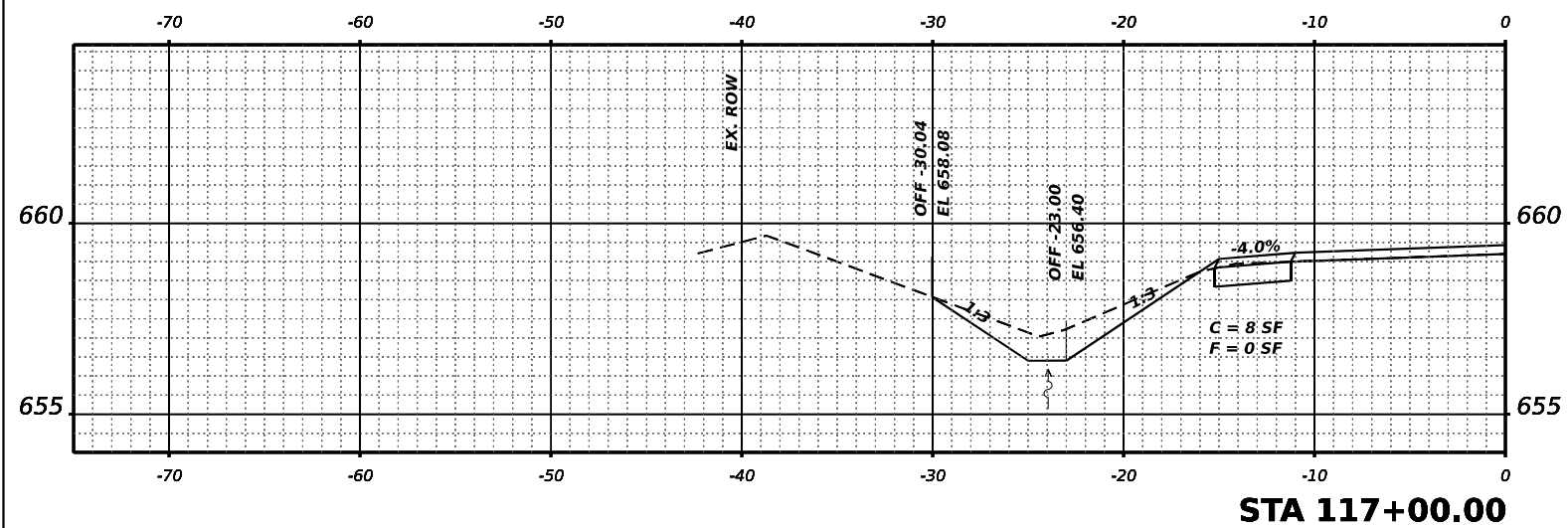
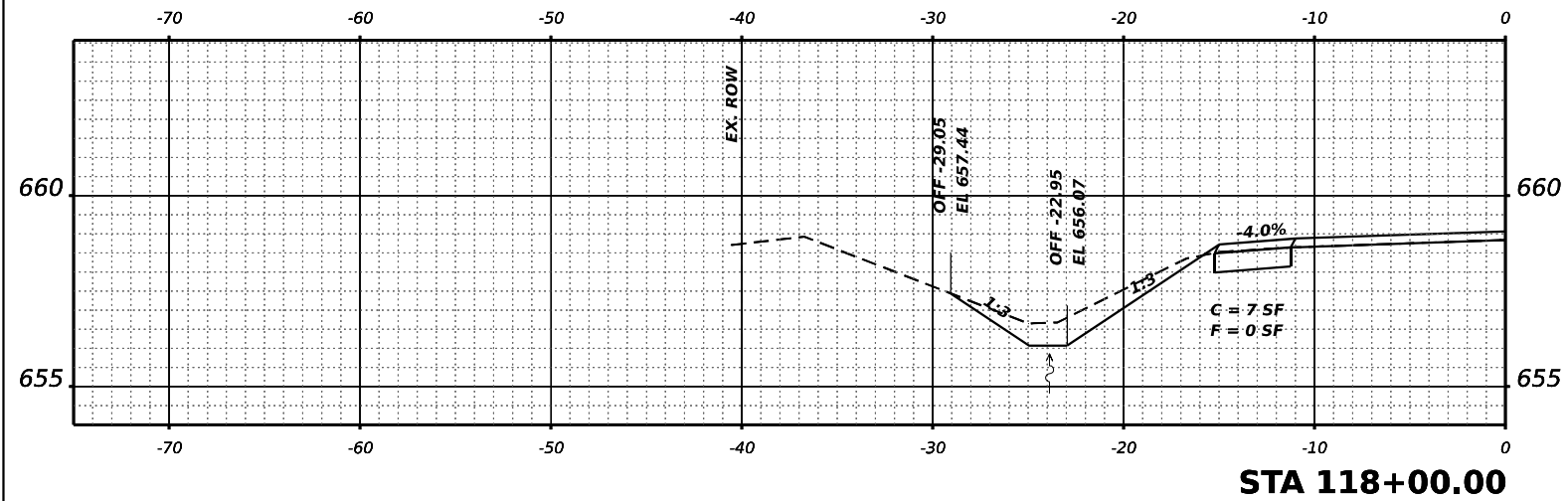
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**CROSS SECTIONS**

SCALE: SHEET 8 OF 13 SHEETS STA. 113+00.00 TO STA. 115+00.00

F.A.S. RTE. 497A	SECTION K(RS-2)	COUNTY VERMILION	TOTAL SHEETS 111	SHEET NO. 106
CONTRACT NO. 70B05			ILLINOIS FED. AID PROJECT	



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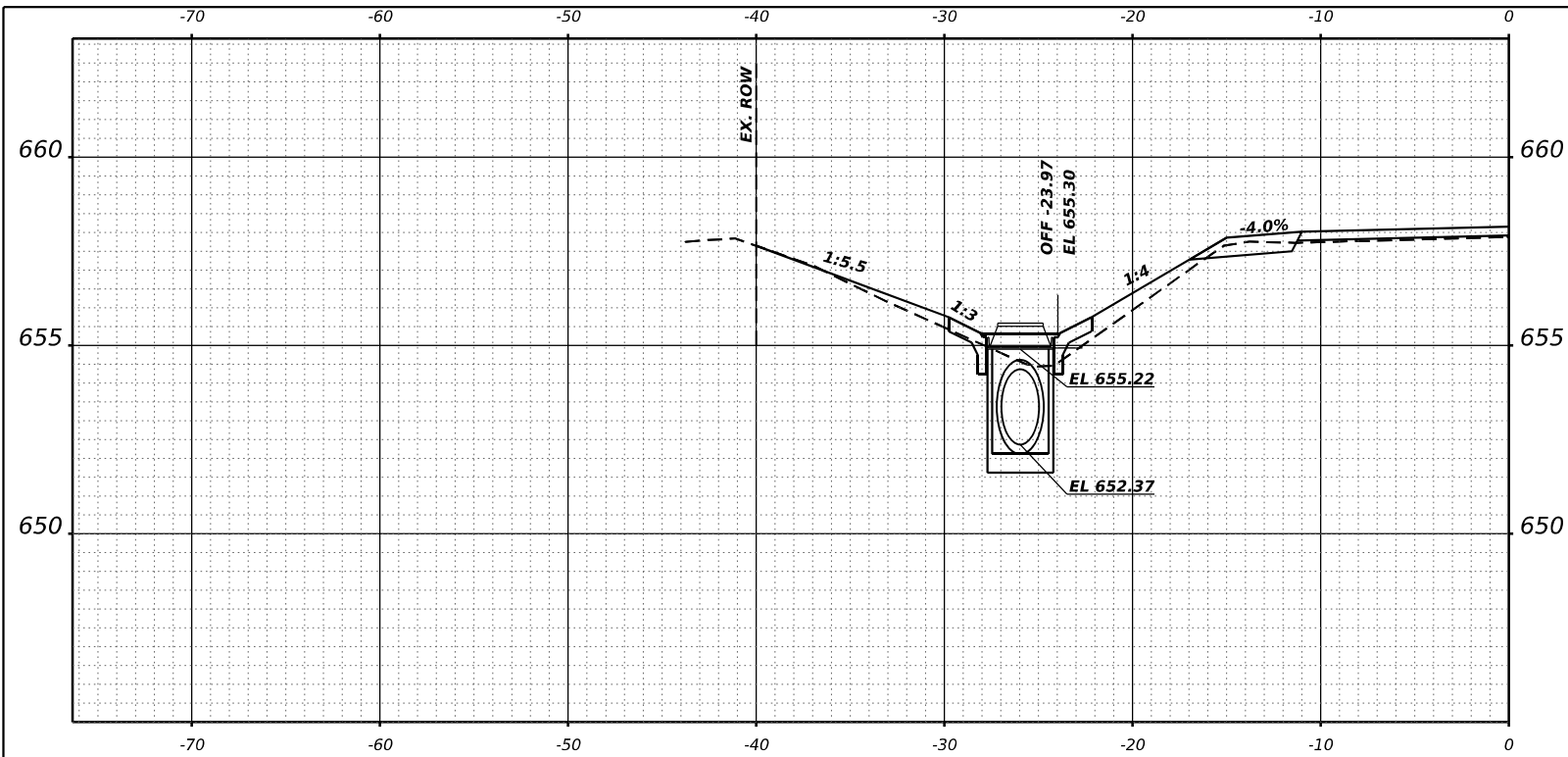
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

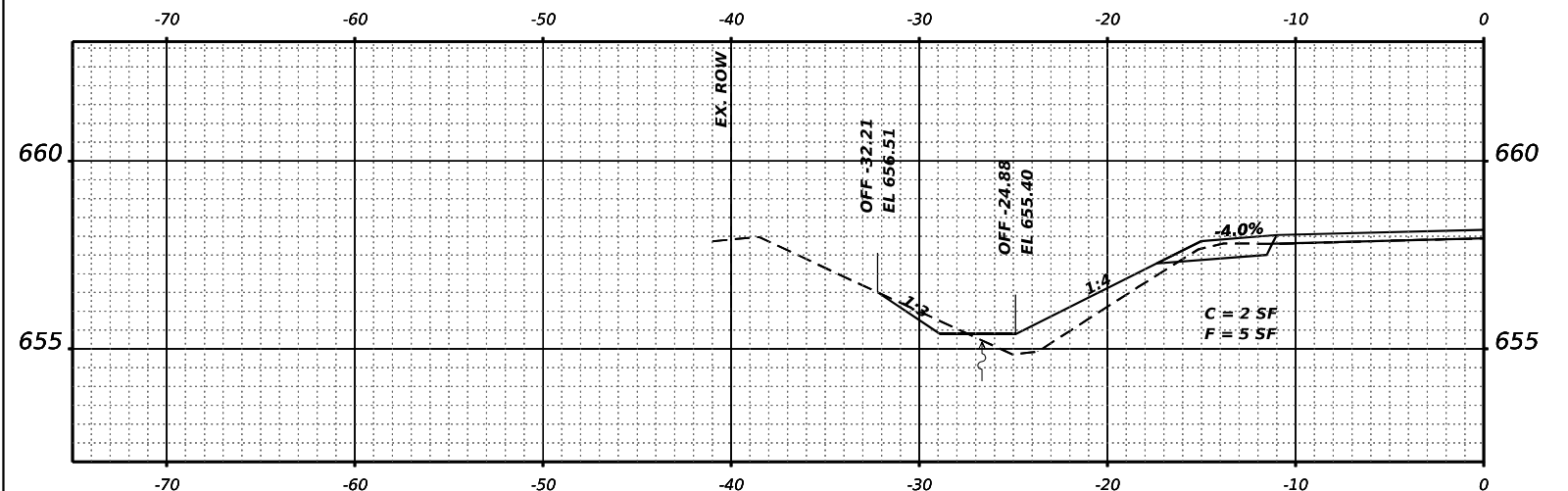
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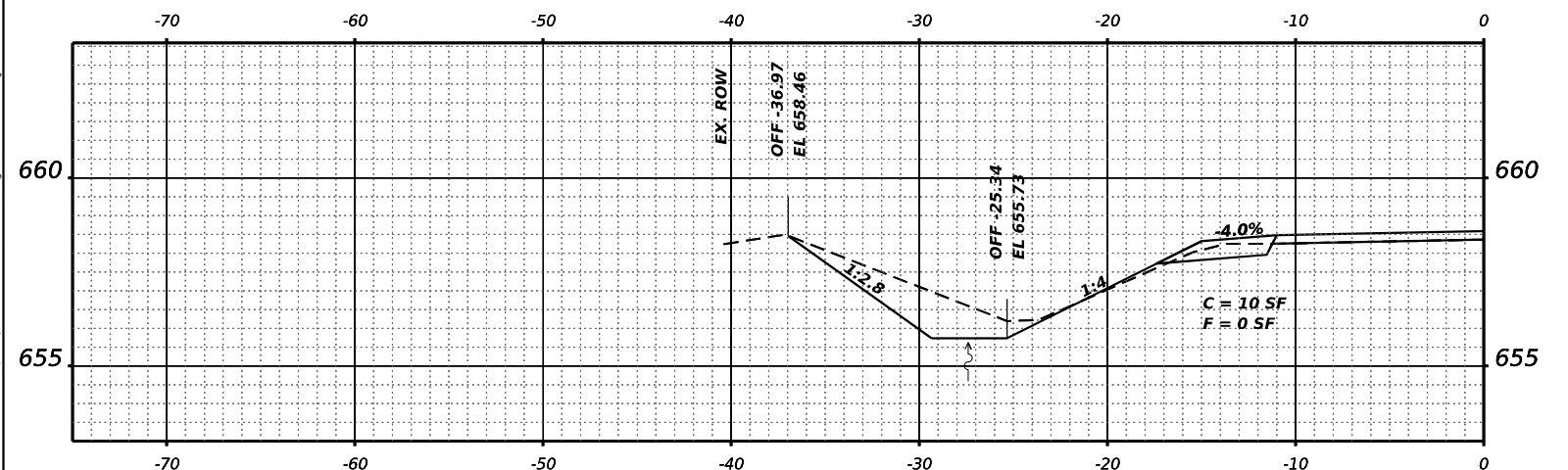
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497A	K(RS-2)	VERMILION	111	107
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



STA 120+32.46



STA 120+00.00



STA 119+00.00

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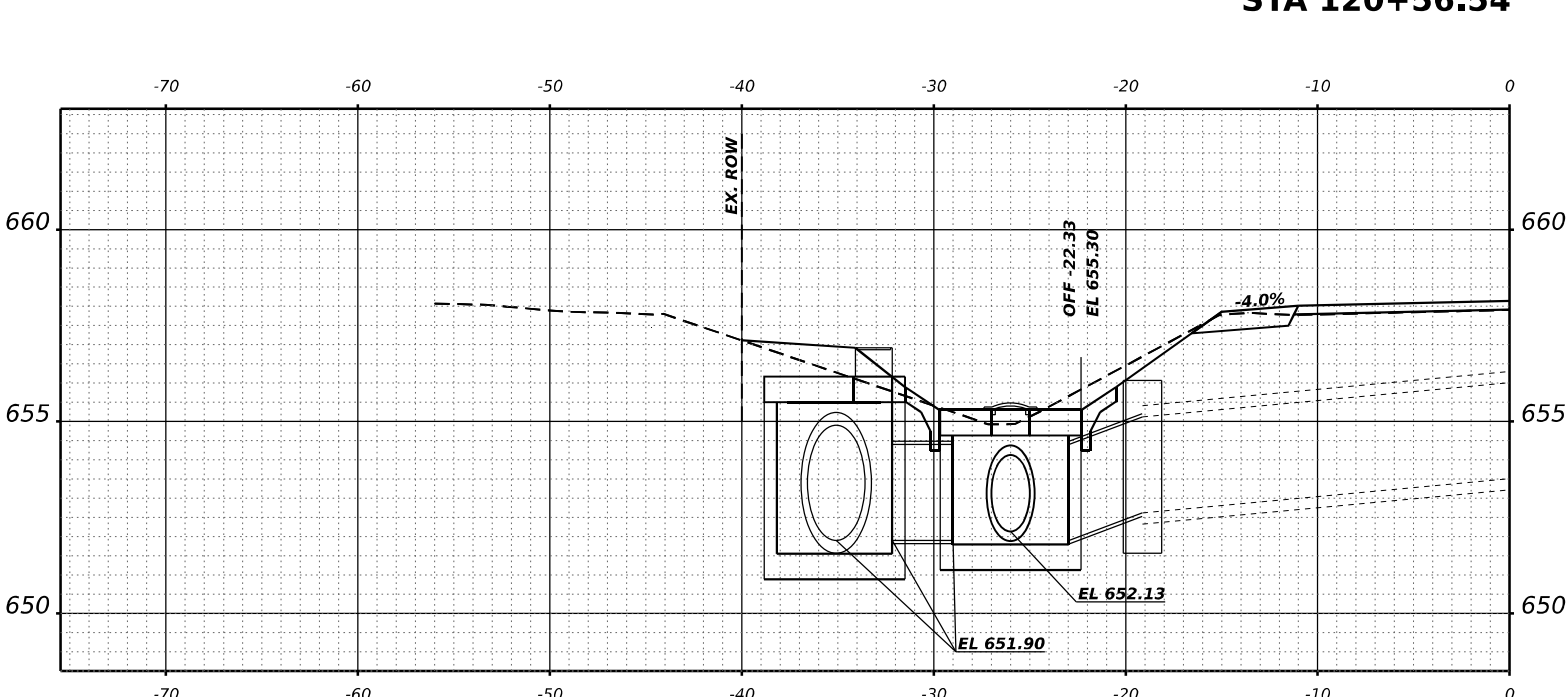
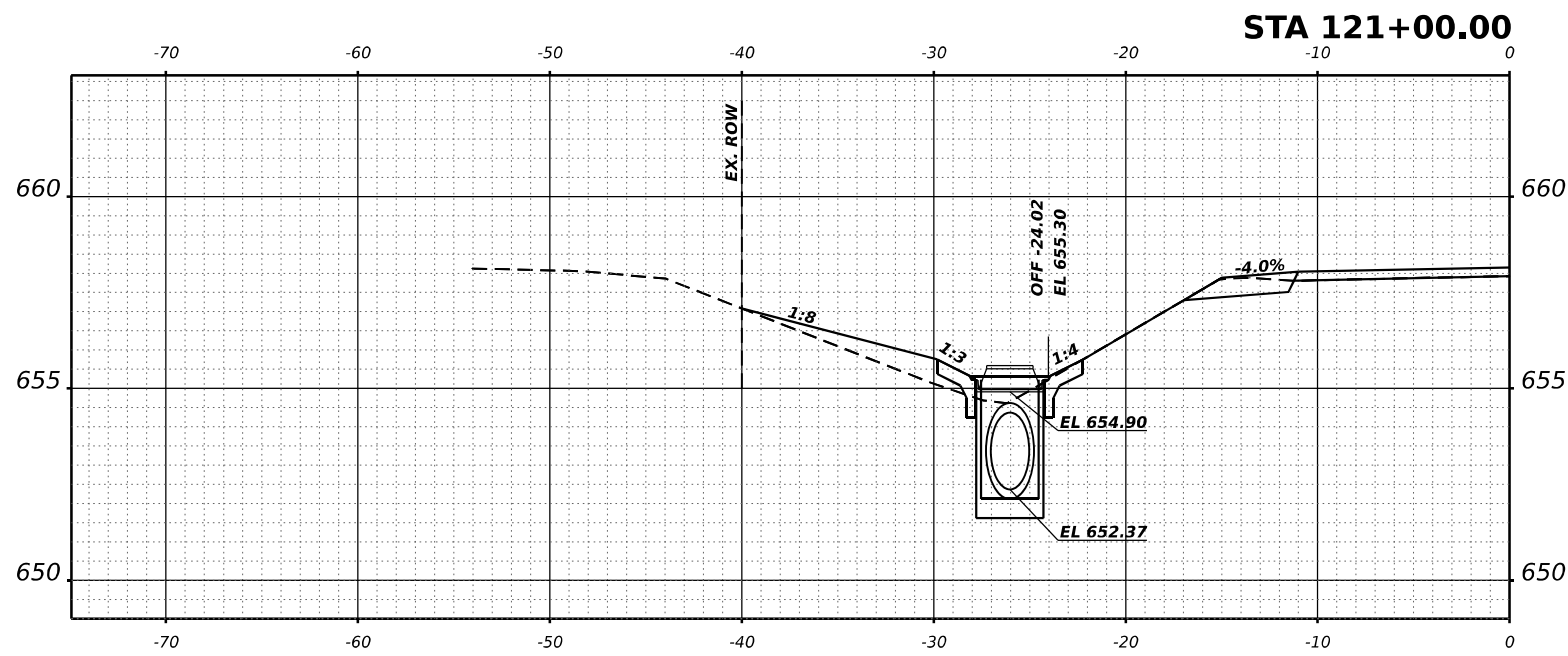
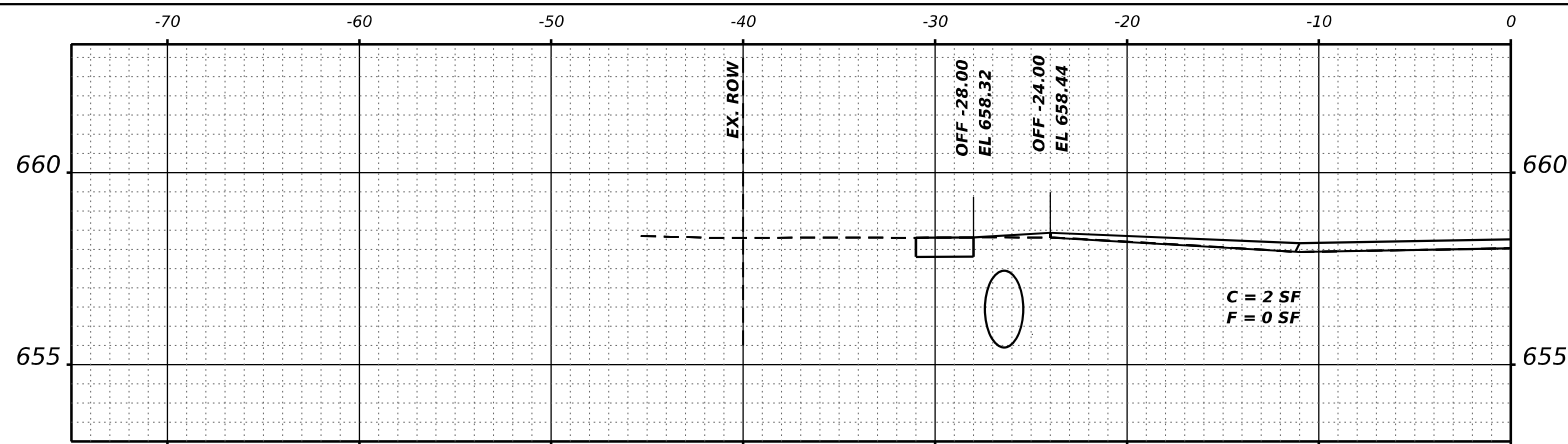
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CROSS SECTIONS

SCALE: SHEET 10 OF 13 SHEETS STA. 119+00.00 TO STA. 120+32.46

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	108
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



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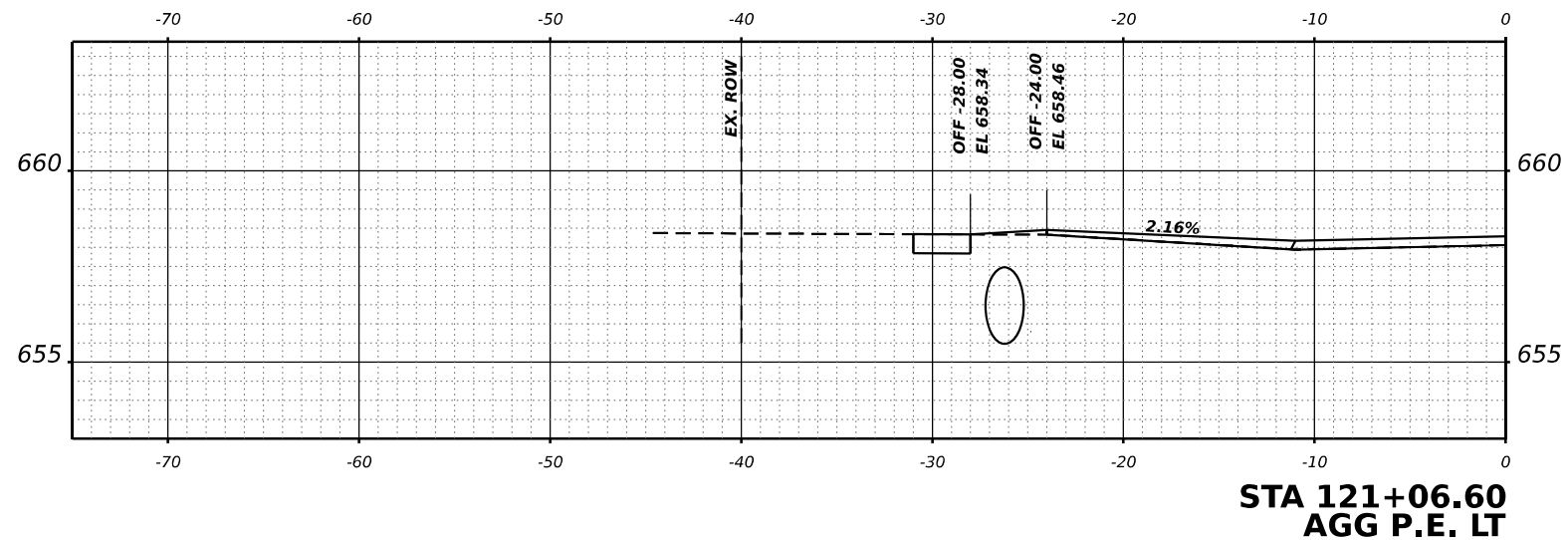
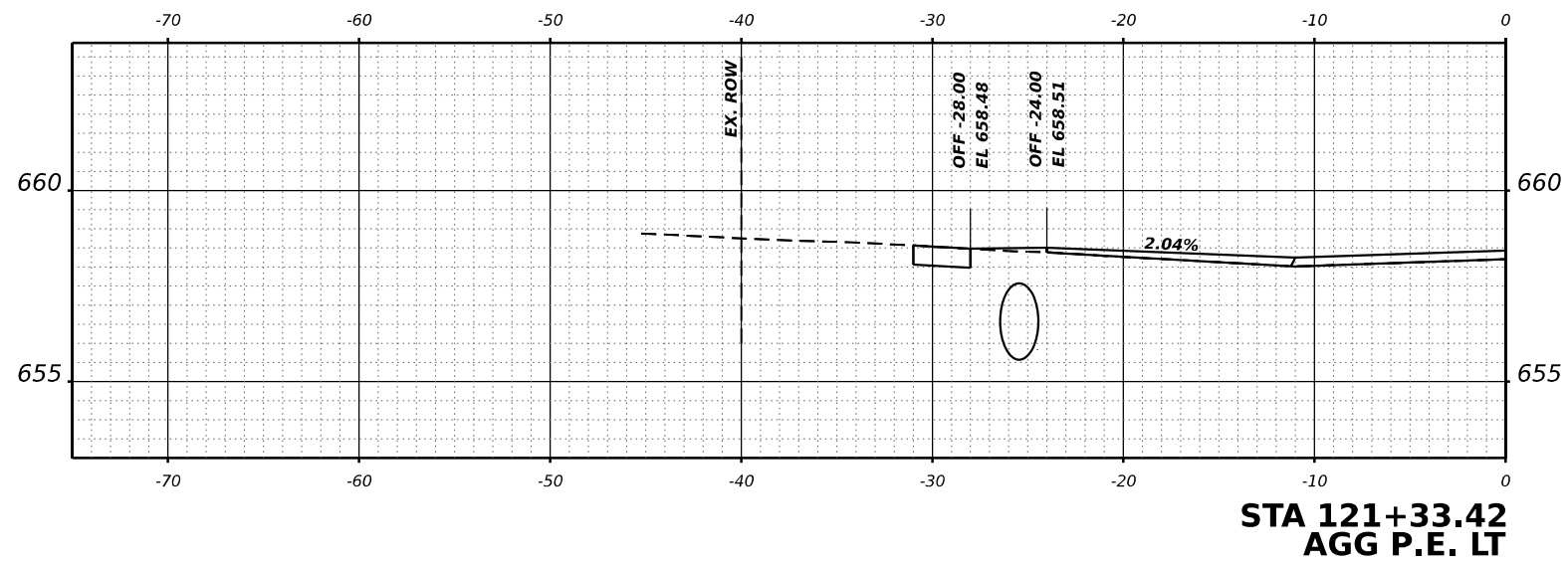
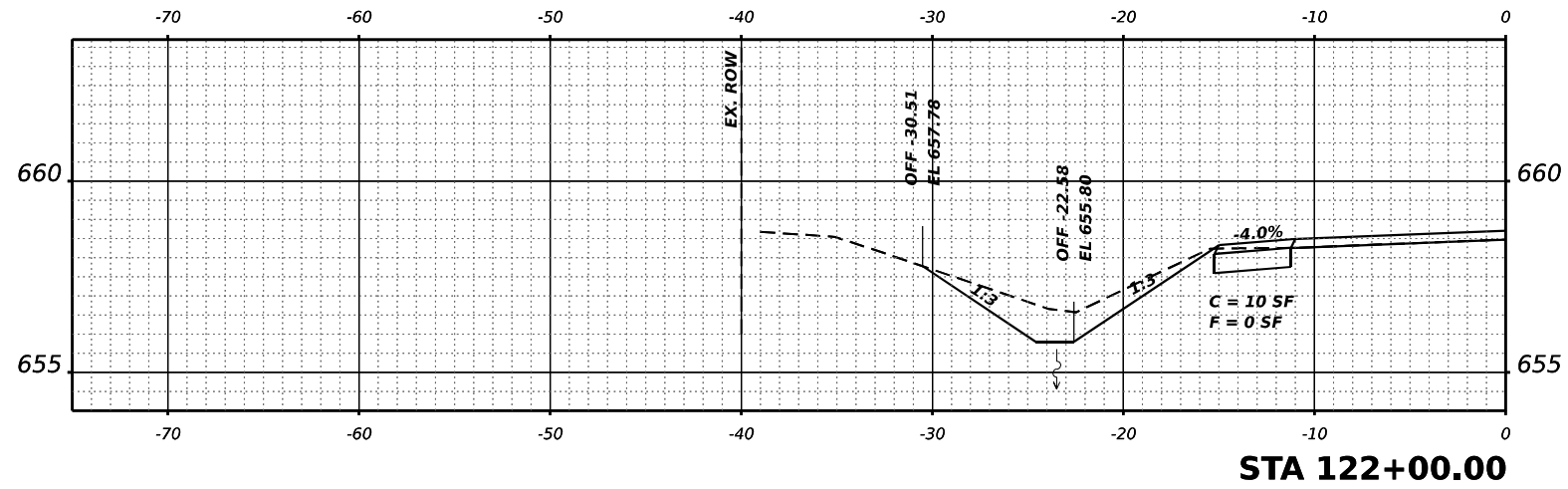
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CROSS SECTIONS

SCALE: SHEET 11 OF 13 SHEETS STA. 120+44.50 TO STA. 121+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	109
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				



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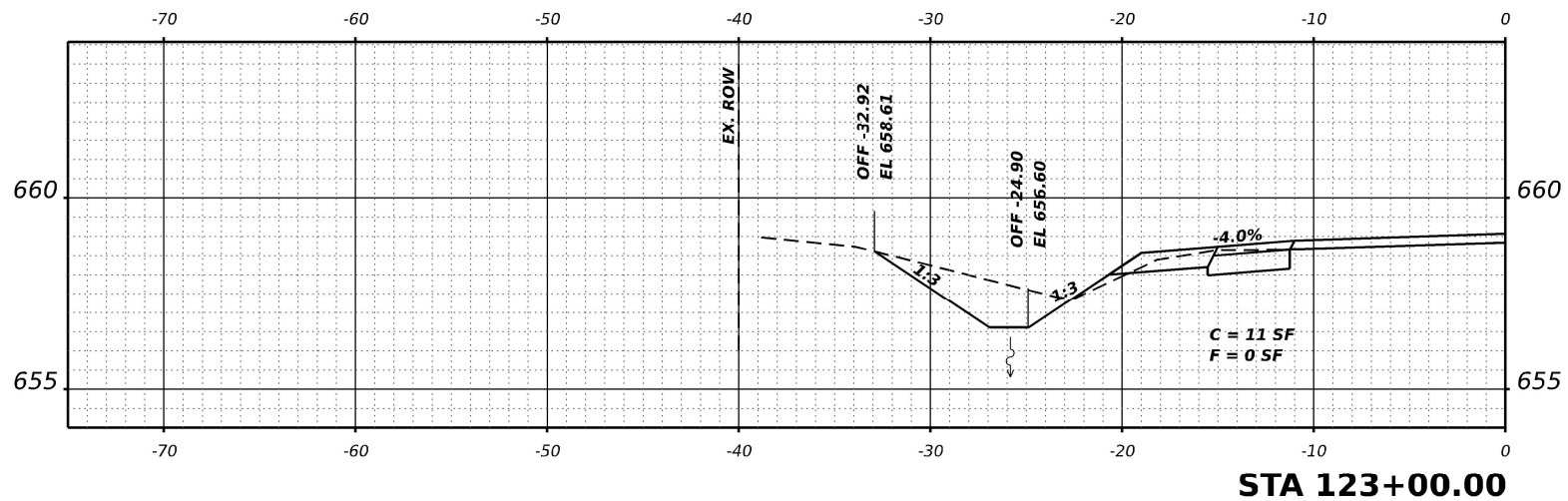
STATE OF ILLINOIS  
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CROSS SECTIONS

SCALE: SHEET 12 OF 13 SHEETS STA. 121+06.60 TO STA. 122+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	110
CONTRACT NO. 70B05				
ILLINOIS FED. AID PROJECT				

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**STA 123+00.00**



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

**CROSS SECTIONS**

SCALE: SHEET 13 OF 13 SHEETS STA. 123+00.00 TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
497A	K(RS-2)	VERMILION	111	111
			CONTRACT NO. 70B05	
		ILLINOIS	FED. AID PROJECT	