

124

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	65B-R-2	MADISON	12	1
		ILLINOIS	CONTRACT NO. 76M23	

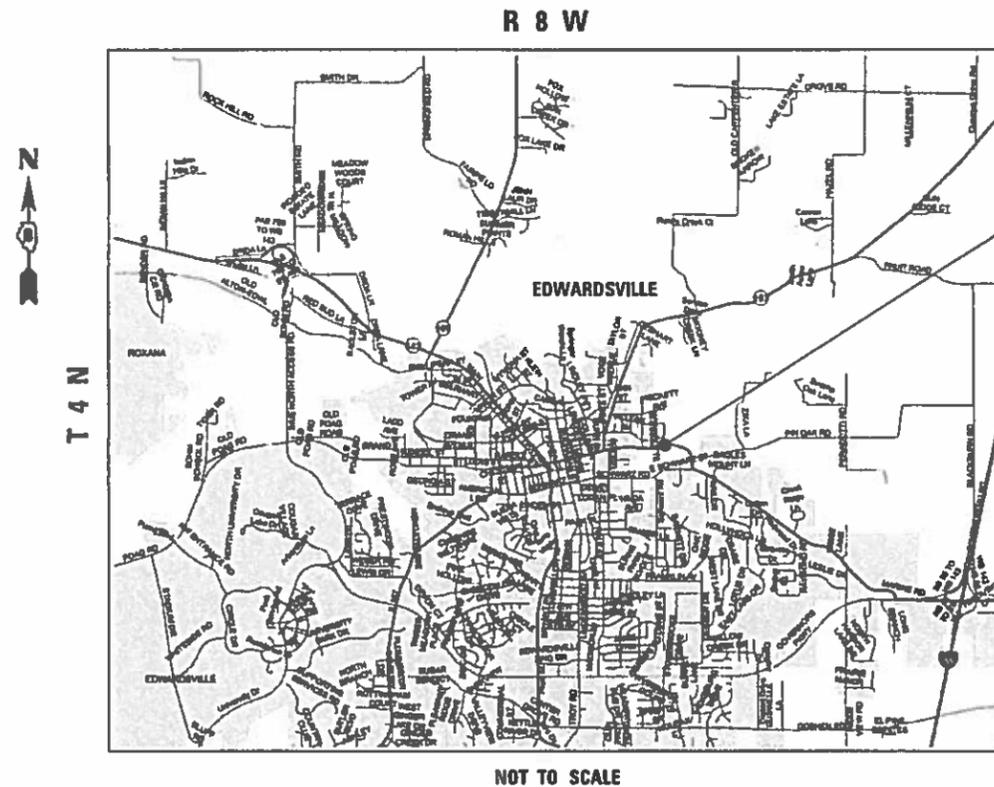
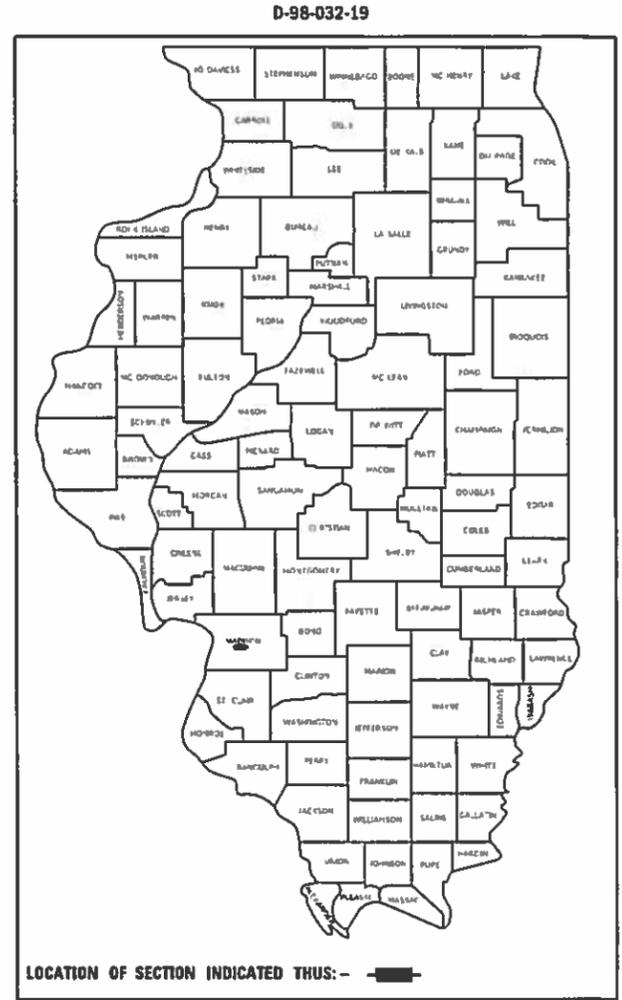
FOR INDEX OF SHEETS, SEE SHEET NO. 2

2017 ADT = 4450 (ACTUAL)
2019 ADT = 4500 (ESTIMATED)
2039 ADT = 5000 (ESTIMATED)
SU = 6.2% MU = 2.2%
DIRECTIONAL DIST = 50 / 50

PROPOSED
HIGHWAY PLANS

FAP ROUTE 789 (IL 143)
SECTION 65B-R-2
GUARDRAIL & BRIDGE REPAIR
MADISON COUNTY

C-98-044-19



PROJECT LOCATION:
IL 143 OVER MOONEY CREEK
0.5 MILES EAST OF IL 157
IN EDWARDSVILLE
SN 060-0188
STA. 25 + 78.87
LATITUDE: 38.81335
LONGITUDE: -89.93843



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

PROJECT ENGINEER HERVE GELIN 618-346-3179
PROJECT MANAGER BILLIE OWEN 618-346-3209

GROSS LENGTH = 105.00 FT. = 0.020 MILE
NET LENGTH = 105.00 FT. = 0.020 MILE

CONTRACT NO. 76M23

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 25, 2019
Keith Roberts
REGIONAL ENGINEER

May 10, 2019
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 20, 2019
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS
- 3-4 SUMMARY OF QUANTITIES
- 5 TYPICAL SECTION
- 6 SCHEDULE OF QUANTITIES
- 7 REMOVAL & REPLACEMENT DETAILS
- 8 STEEL RAILING & GUARDRAIL
- 9 TRAFFIC CONTROL PLAN
- 10-12 EXISTING PLANS

HIGHWAY STANDARDS

- 000001-07
- 001006
- 701321-17
- 701501-06
- 701901-08
- 704001-08
- 780001-05
- 781001-04

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

UTILITY	ABOVE GROUND	BELOW GROUND
*ADB COMPANIES	X	X
*AMEREN ILLINOIS	X	X
*AT&T ILLINOIS	X	X
*CHARTER COMMUNICATIONS, INC.	X	X
*CITY OF EDWARDSVILLE		X
*VERIZON BUSINESS	X	X
*NORTHEAST CENTRAL COUNTY PUBLIC WATER DISTRICT		X

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *. NON- J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

2. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING SHOWN IN THE PLAN SHEETS WAS CREATED USING MICROFILM. IT SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
3. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
4. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
5. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SURFACE
AC/PG	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70
MIX COMPOSITION (Gradation)	IL 9.5
FRICTION AGG	MIXTURE "D"
QUALITY MGMT PROGRAM	QC/QA

PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN.

6. WHERE PERMANENT RRPM ARE PRESENT AND CONFLICT WITH THE REVISED TRAFFIC PATTERNS ONLY THE REFLECTORS SHALL BE REMOVED AND PAID FOR AS RAISED REFLECTIVE PAVEMENT MARKER REMOVAL (7 TOTAL).
7. THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER SHALL BE PAINTED WITH TEMPORARY PAVEMENT MARKING CONSISTENT WITH TRAFFIC CONTROL. THIS WILL BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER AND NO OTHER COMPENSATION SHALL BE ALLOWED.

COMMITMENTS

PASTOR JACK TOWNSEND OF CHURCH OF GOD IN CHRIST CONGREGATIONAL MUST BE NOTIFIED BY THE RESIDENT ENGINEER TWO WEEKS PRIOR TO THE PLACEMENT OF THE TEMPORARY TRAFFIC SIGNALS FOR THE CHURCH PARKING LOT AT THE ENTRANCE ON IL 143.

- 618-656-1860

PERTINENT INFORMATION

THE FOLLOWING SHALL BE NOTIFIED OF THE ROAD CLOSURES TWO WEEKS PRIOR TO CLOSURE:

- FIRE DEPARTMENT AND AMBULANCE - 618-692-7540

- EDWARDSVILLE SCHOOL DISTRICT: DR. LYNDA ANDRE - 618-656-1182

- FIRST STUDENT - 618-692-4290

MODEL: Default
FILE: \\nas01c.psu.edu\B\EBID\NTEC\Illinois.gov\PI\DOT\Documents\DOT_Offices\District 8\Projects\0876M23\CADD\DATA\CAD\Sheet\0876M23-ct-genote.dgn

	USER NAME = leej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			789	65B-R-2	MADISON	12	2	
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 76M23					
	PLOT DATE = 1/28/2019	DATE -	REVISED -			SCALE:		SHEET 1 OF 1 SHEETS		STA. TO STA.	
ILLINOIS FED. AID PROJECT											

MODEL: Default
 FILE: \\nas01c.psu.edu\B&E\BID\NTEC\Illinois.gov\RW\DOT\Documents\DOT_Offices\Director\B\Projects\076M23\CADD\DATA\CAD\Sheet\076M23-shc-500.dwg

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN 100% MCHD	CONSTR. CODE
					BRIDGE 0013 060-0188
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	6		6
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2		2
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	4		4
44000100	PAVEMENT REMOVAL	SQ YD	4		4
44000157	HOT-MIX ASPHALT SURFACE REMOVAL,2"	SQ YD	3		3
50400105	PRECAST CONCRETE BRIDGE SLAB	SQ FT	61		61
50900205	STEEL RAILING, TYPE S1	FOOT	30.5		30.5
54002020	EXPANSION BOLTS 3/4 INCH	EACH	22		22
* 63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	50		50
* 63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE1	EACH	1		1
67100100	MOBILIZATION	L SUM	1		1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1		1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1		1
70106700	TEMPORARY RUMBLE STRIPS	EACH	3		3

* SPECIALTY ITEM

USER NAME = leej	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/5/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	65B-R-2	MADISON	12	3
			CONTRACT NO. 76M23	
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
 FILE NAME: P:\11108\B&E\BIDD\ITEC\Illinois\gov\PI\DOT\Documents\DOT_Offices\Director\B\Projects\076M23\CADD\DATA\CAD\Sheet\076M23-111-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN 100% MCHD	CONSTR. CODE
					BRIDGE 0013 060-0188
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	975		975
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	40		40
70300100	SHORT TERM PAVEMENT MARKING	FOOT	17		17
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	412		412
70400100	TEMPORARY CONCRETE BARRIER	FOOT	175		175
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2		2
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE4"	FOOT	17		17
78100300	REPLACEMENT REFLECTOR	EACH	7		7
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	7		7
X0324744	REMOVAL OF EXISTING PRECAST CONCRETE UNITS	SQ FT	61		61
X0326519	STEEL RAILING REMOVAL	FOOT	30.5		30.5
X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1		1

* SPECIALTY ITEM

USER NAME = leej	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/5/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	65B-R-2	MADISON	12	4
CONTRACT NO. 76M23			ILLINOIS FED. AID PROJECT	

RESURFACING SCHEDULE					
LOCATION		BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
STATION	STATION	POUND	SQ YD	SQ YD	TON
25+93.00	TO 26+09.31	6	3	4	2
TOTAL		6	3	4	2

CONCRETE SCHEDULE									
LOCATION		LENGTH 1	LENGTH 2	WIDTH	DEPTH	PORTLAND CEMENT CONCRETE PAVEMENT 10"	PRECAST CONCRETE BRIDGE SLAB	EXPANSION BOLTS 3/4 INCH	REMOVAL OF EXISTING PRECAST CONCRETE UNITS
STATION	STATION	FEET	FEET	FEET	FEET	SQ YD	SQ FT	EACH	SQ FT
25+93.00	TO 26+09.31	15.9167	16.3125	3.75	-		60.43		60.43
		16.3125	-	2.00	0.83	3.63		22.00	
TOTAL						4	61	22	61

RAILING SCHEDULE							
LOCATION		LENGTH	STEEL RAILING REMOVAL	STEEL RAILING, TYPE S1	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE1	
STATION	STATION	FOOT	FOOT	FOOT	FOOT	EACH	
25+78.42	TO 26+08.92	30.50	30.5	30.5			
26+08.92	TO 26+83.92	75.00			50.0	1.0	
TOTAL			30.5	30.5	50.0	1.0	

PAVEMENT MARKING SCHEDULE							
LOCATION		PAVEMENT MARKING BLACKOUT TAPE, 5"	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	THERMOPLASTIC PAVEMENT MARKING - LINE4"	REPLACEMENT REFLECTOR	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
STATION	STATION	FOOT	FOOT	SQ FT	FOOT SOLID WHITE	EACH	EACH
23+88.33	TO 29+04.74	975	17	412	17	7	7
TOTAL		975	17	412	17	7	7

MODEL: Default
 FILE: \\nas0101\B&E\BID\NTEC\Illinois\gov\PIWDOT\Documents\10DOT_Offices\Director\Projects\0876M23\CADD\DATA\CAD\Sheet\0876M23-sht-schedule.dgn

USER NAME = leej	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/5/2019	DATE -	REVISED -

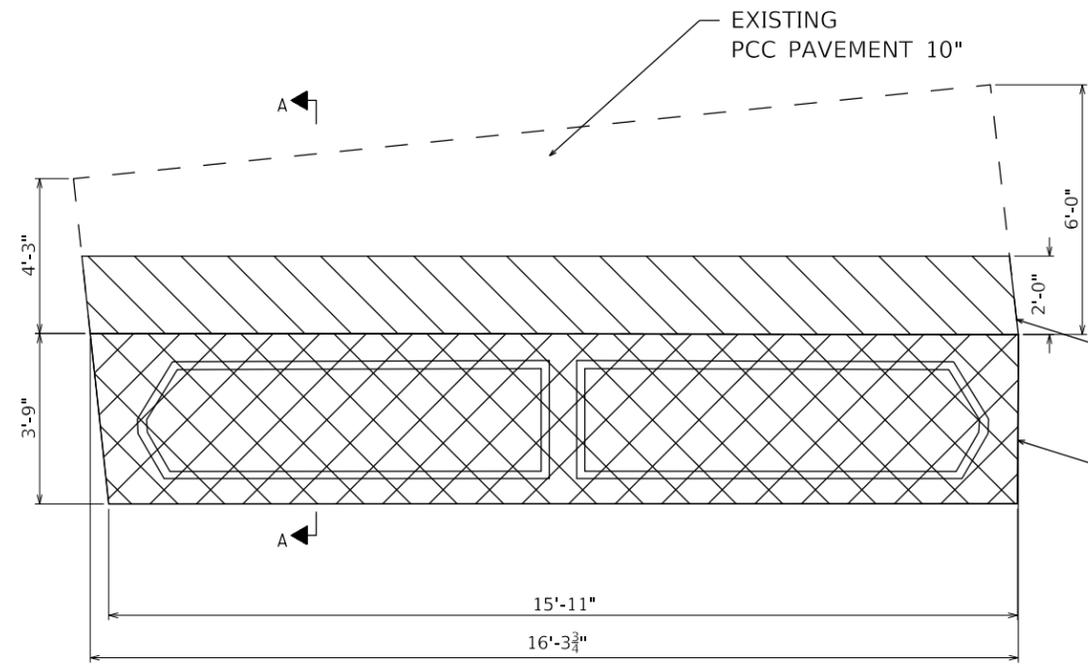
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	65B-R-2	MADISON	12	6
CONTRACT NO. 76M23				
ILLINOIS FED. AID PROJECT				

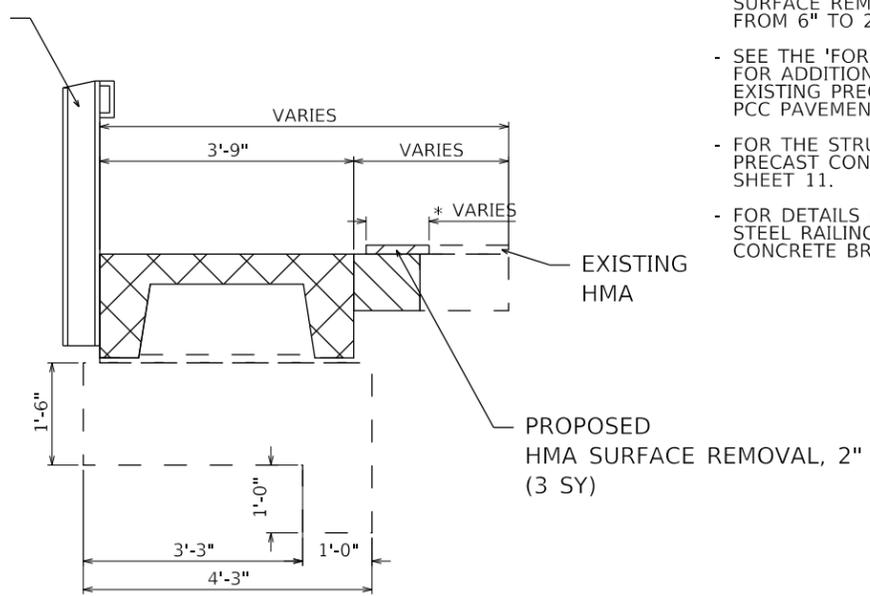
NOTES

- THE PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2" VARIES IN WIDTH FROM 6" TO 2'-3".
- SEE THE 'FOR YOUR INFORMATION' SHEETS FOR ADDITIONAL INFORMATION ON THE EXISTING PRECAST UNIT AND EXISTING PCC PAVEMENT 10".
- FOR THE STRUCTURAL DETAILS OF THE PRECAST CONCRETE BRIDGE SLAB, SEE SHEET 11.
- FOR DETAILS ON THE ANCHORING OF THE STEEL RAILING TO THE PRECAST CONCRETE BRIDGE SLAB, SEE SHEET 12.



SEE STEEL RAILING & GUARDRAIL SHEET FOR REMOVAL AND REPLACEMENT INFORMATION

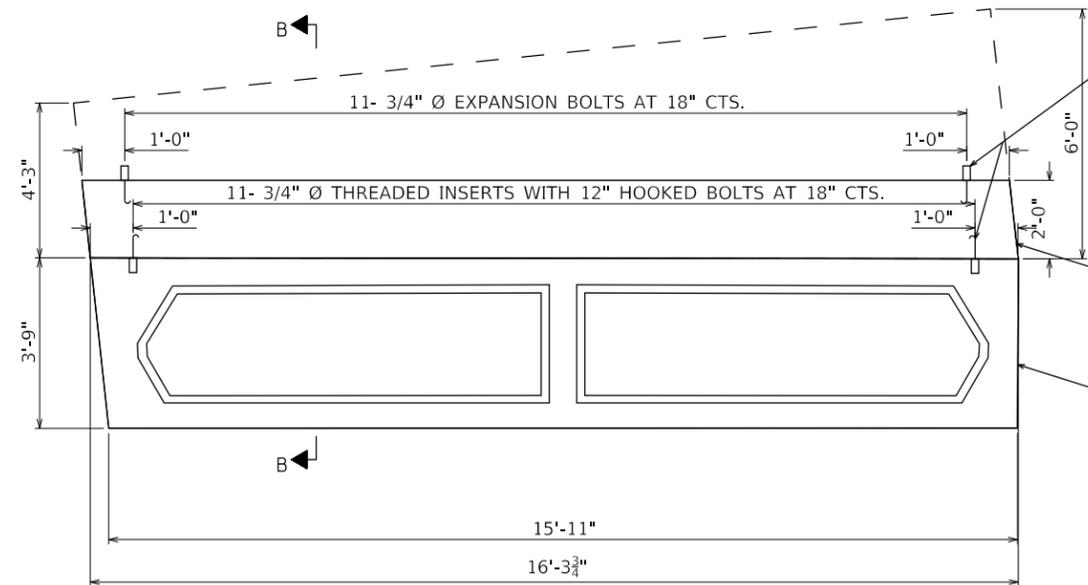
- EXISTING PCC PAVEMENT 10"
- PROPOSED PAVEMENT REMOVAL (4 SY)
- PROPOSED REMOVAL OF EXISTING PRECAST CONCRETE UNITS (61 SQ FT)



SECTION A-A

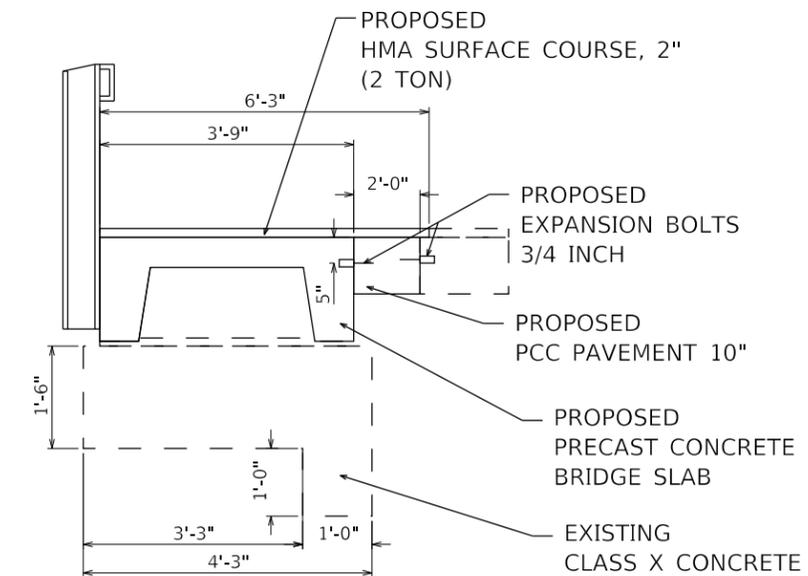
- HMA SURFACE REMOVAL
- CONCRETE REMOVAL
- PRECAST CONCRETE UNIT REMOVAL

REMOVAL DETAILS



- PROPOSED EXPANSION BOLTS 3/4 INCH (22 EACH)
- 11- 3/4" Ø EXPANSION BOLTS AT 18" CTS.
- 11- 3/4" Ø THREADED INSERTS WITH 12" HOOKED BOLTS AT 18" CTS.

- PROPOSED PCC PAVEMENT 10" (4 SY)
- PROPOSED PRECAST CONCRETE BRIDGE SLAB (61 SQ FT)



SECTION B-B

REPLACEMENT DETAILS

NOT TO SCALE

MODEL: Default
FILE: \\nas01c.psu.edu\B&E\BID\ITEC\Illinois\gov\PIWDOT\Documents\13\DOT_Offices\IDirect\B\Projects\076M23\CADD\B&E\CAD\Sheet\076M23-11c-rmf.dgn

USER NAME = leej	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/5/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

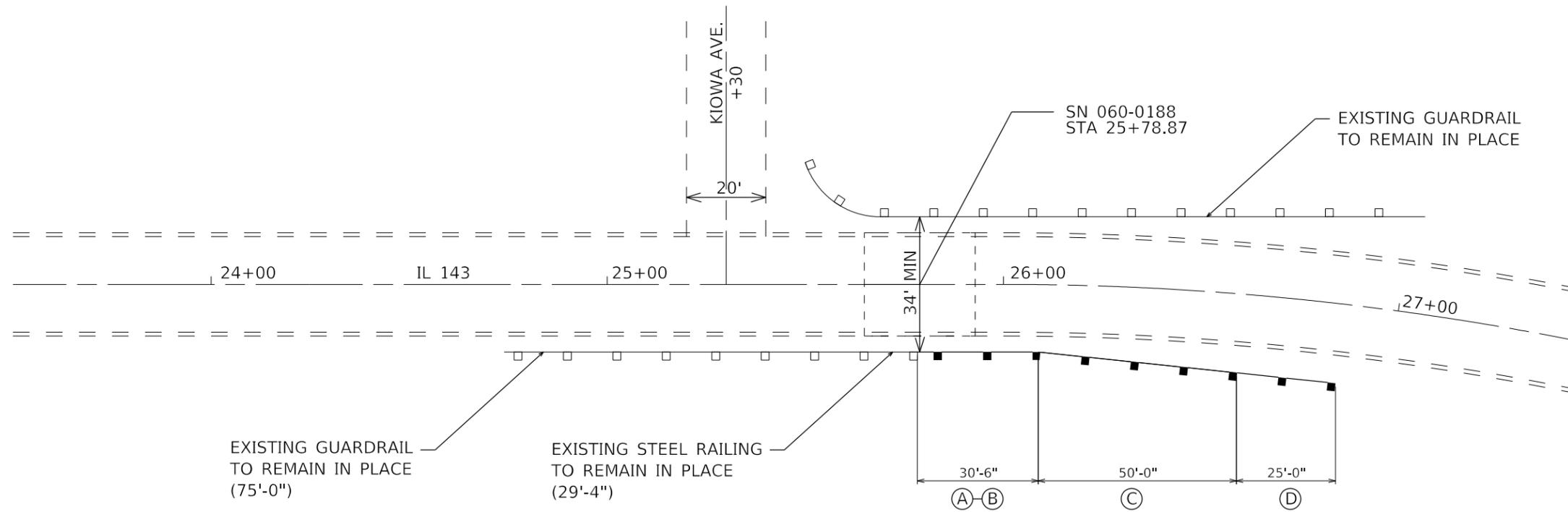
REMOVAL & REPLACEMENT DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	65B-R-2	MADISON	12	7
CONTRACT NO. 76M23				
ILLINOIS FED. AID PROJECT				

NOTES

- FOR DETAILS ON THE STEEL RAILING INCLUDING THE ANCHORING OF THE STEEL RAILING TO THE PRECAST CONCRETE BRIDGE SLAB, SEE SHEET 12.



- (A) STEEL RAILING REMOVAL
- (B) STEEL RAILING, TYPE S1
- (C) REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A
- (D) REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE1

NOT TO SCALE

MODEL: Default
 FILE: \\mhc-pw\ulb\BEBID\NTEC\Illinois\gov\PIW\DOT\Documents\1\DOT - Offices\District 8\Projects\0876M23\CADD\staCAD\sheet10876M23-rt-cmb.cad

USER NAME = leej	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

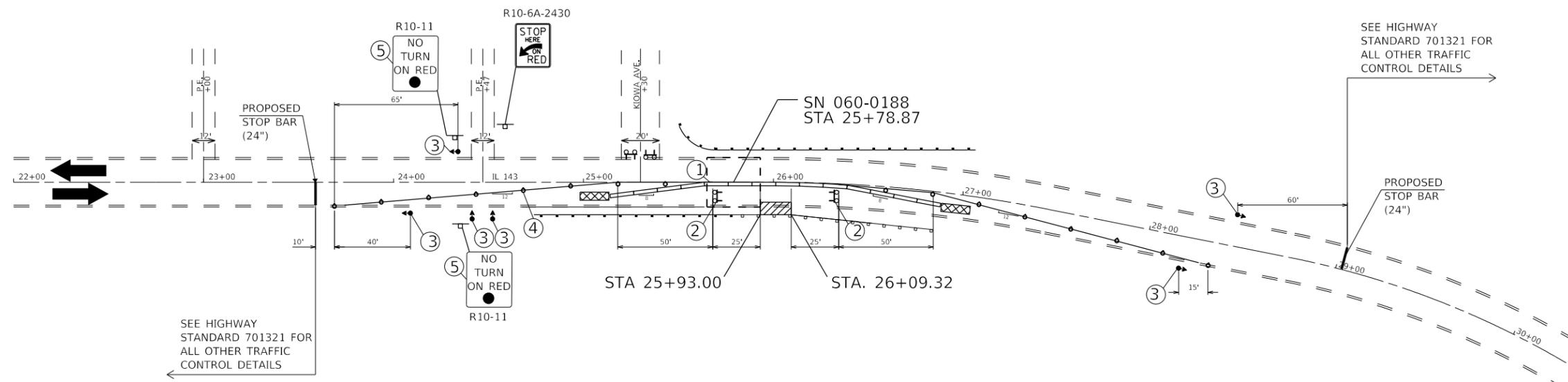
STEEL RAILING & GUARDRAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	65B-R-2	MADISON	12	8
CONTRACT NO. 76M23				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- ① THE TEMPORARY CONCRETE BARRIER SHALL BE PLACED SLIGHTLY BACK FROM THE LANE LINE TO ENSURE FULL VISIBILITY OF THE LANE LINE.
- ② TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ③ THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24" AND 6' FROM EDGE OF SHOULDER.
- ④ DRUMS SHALL BE PLACED AT 25' CENTERS.
- ⑤ ALL 'NO TURN ON RED' AND 'STOP HERE ON RED' SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL).
- ⑥ TEMPORARY RUMBLE STRIPS (NOT SHOWN) SHALL BE PLACED ACCORDING TO HIGHWAY STANDARD 701321 ONLY ALONG THE EAST END OF THE ROADWAY DUE TO THE ENTRANCES ON THE WEST END.



LEGEND

- | | | | |
|--|--|--|---|
| | DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT | | IMPACT ATTENUATOR (2 EACH) |
| | WORK AREA | | TRAFFIC SIGNAL |
| | DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT | | SIGN |
| | TRAFFIC DIRECTION ARROW | | TYPE III BARRICADE WITH FLASHING LIGHTS |
| | TEMPORARY CONCRETE BARRIER (175 FT) | | |

NOT TO SCALE

MODEL: Default
 FILE: \\nas01c.pva\illinois\B&E\BID\ITEC\Illinois\gov\PIWD\DOT\Documents\1\DOT_Offices\Director\B\Projects\0876M23\CADD\BstaCAD\chres\0876M23-stc-mbf.dgn

USER NAME = leej	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	65B-R-2	MADISON	12	9
CONTRACT NO. 76M23			ILLINOIS FED. AID PROJECT	

