




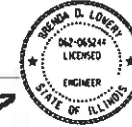
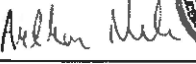



**SUBSURFACE UTILITY ENGINEERING (S.U.E)  
UTILIZED ON THIS PROJECT**

**FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2**

**FUNCTIONAL CLASSIFICATION:  
OTHER PRINCIPAL ARTERIAL  
130TH ST 2019 ADT = 18,200  
130TH ST POSTED SPEED LIMIT: 35 MPH  
I-94 2019 ADT = 148,900  
I-94 POSTED SPEED LIMIT: 55 MPH**

APPLIES TO SHEETS 1-29, 31-34  LICENSED CIVIL ENGINEER, STATE OF ILLINOIS EXPIRES: 11/30/2021 	APPLIES TO SHEET 30  LICENSED CIVIL ENGINEER, STATE OF ILLINOIS EXPIRES: 11/30/2021 
APPLIES TO SHEETS 66-70  LICENSED CIVIL ENGINEER, STATE OF ILLINOIS EXPIRES: 11/30/2021 	APPLIES TO SHEETS 35-65  LICENSED STRUCTURAL ENGINEER, STATE OF ILLINOIS EXPIRES: 11/30/2022 

**MUNICIPALITIES:  
CITY OF CHICAGO**



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: PRAVEEN KAINI, PE (847)-705-4237  
PROJECT MANAGER: J. ALAIN MIDY, PE (847)-221-3056**

**CONTRACT NO. 62M41**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

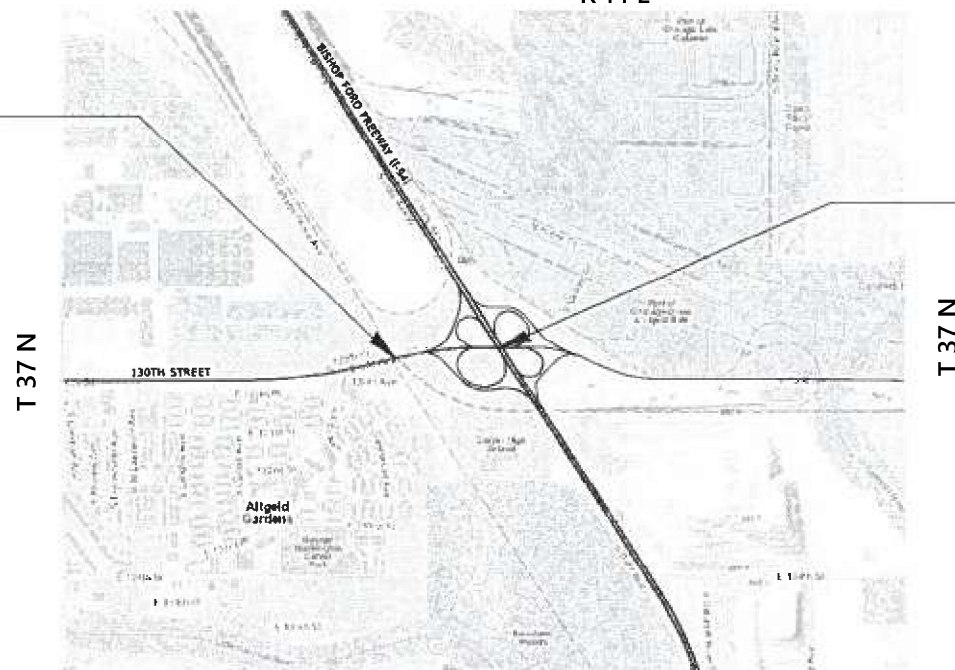
**PROPOSED  
HIGHWAY PLANS**

**FAP ROUTE 0344 (130TH ST)  
AT I-94 (BISHOP FORD EXPRESSWAY) & CSSS & IHB RR  
SECTION 2020-153-BR  
PROJECT NHPP-KJ9T(288)  
BRIDGE DECK OVERLAY AND JOINT REPAIRS  
COOK COUNTY**

C-91-361-20 R 14 E

**BRIDGE REPAIRS  
SN 016-2434  
STA 24 + 37.61**

**BRIDGE REPAIRS  
SN 016-2600  
STA 38 + 91.98**



**LOCATION MAP R 14 E  
NOT TO SCALE**



F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	1

\* 85 + 2 = 87 TOTAL SHEETS



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 16, 2021  
Paul Ryan KAS  
REGIONAL ENGINEER

May 7, 2021  
Joe A. Elk  
ENGINEER OF DESIGN AND ENVIRONMENT

May 7, 2021  
James J. Gu...  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

SN 016-2434	SN 016-2600
GROSS LENGTH = 409.54 FT. = 0.078 MILE	GROSS LENGTH = 375.28 FT. = 0.071 MILE
NET LENGTH = 409.54 FT. = 0.078 MILE	NET LENGTH = 375.28 FT. = 0.071 MILE

**Bowman**  
CONSULTING

311 S. Wacker Drive, Suite 1850  
Chicago, Illinois 60606  
312-614-0360  
www.bowmanconsulting.com

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

REV-SEP

## INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS AND HIGHWAY STANDARDS
3	GENERAL NOTES AND COMMITMENTS
4-9	SUMMARY OF QUANTITIES
10	SCHEDULE OF QUANTITIES
11	MAINTENANCE OF TRAFFIC NOTES
12-14	MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
15-16	DETOUR PLAN
17	MAINTENANCE OF TRAFFIC SIGNS
18-19	MAINTENANCE OF TRAFFIC STAGE 1 - 130TH STREET
20-21	MAINTENANCE OF TRAFFIC STAGE 2 - 130TH STREET
22-23	MAINTENANCE OF TRAFFIC STAGE 3 - 130TH STREET
24	MAINTENANCE OF TRAFFIC STAGE 1 - I-94
25	PROPOSED MEDIAN PLAN - I-94
26-27	REMOVAL PLAN - 130TH STREET
28-29	PROPOSED MEDIAN AND PAVEMENT MARKING PLAN - 130TH STREET
30	PROPOSED GUARDRAIL PLAN - I-94
31-34	TEMPORARY TRAFFIC SIGNAL
35	GENERAL PLAN AND ELEVATION - SN 016-2434
36	GENERAL NOTES AND BILL OF MATERIALS - SN 016-2434
37	MAINTENANCE OF TRAFFIC DETAILS - SN 016-2434
38	DECK & APPROACH SLABS REPAIRS AND OVERLAY PLANS - SN 016-2434
39	ADJUSTING DRAINAGE SCUPPER DETAILS - SN 016-2434
40	JOINT REPAIR LIMITS - SN 016-2434
41	EXPANSION JOINT DETAILS - SN 016-2434
42	PREFORMED JOINT STRIP SEAL - SN 016-2434
43	JOINTS AND BRIDGE DRAINAGE AS-BUILT PLANS - SN 016-2434
44	PIER 1 REPAIRS - SN 016-2434
45	PIER 2 REPAIRS - SN 016-2434
46	PIER 3 REPAIRS - SN 016-2434
47	EAST AND WEST ABUTMENT REPAIRS - SN 016-2434
48	BAR SPLICER ASSEMBLY - SN 016-2434
49	GENERAL PLAN AND ELEVATION - SN 016-2600
50	GENERAL NOTES AND BILL OF MATERIALS - SN 016-2600
51	MAINTENANCE OF TRAFFIC DETAILS - SN 016-2600
52	DECK & APPROACH SLABS REPAIRS AND OVERLAY PLANS - SN 016-2600
53	JOINT REPAIR LIMITS - SN 016-2600
54	EXPANSION JOINT DETAILS - SN 016-2600
55	PREFORMED JOINT STRIP SEAL - SN 016-2600
56	JOINTS AND BRIDGE DRAINAGE AS-BUILT PLANS - SN 016-2600
57	BEARING REPLACEMENT LOCATIONS - SN 016-2600
58	NEW BEARING DETAILS - SN 016-2600
59	BEARING DETAILS - AS-BUILT PLANS - SN 016-2600
60	PARAPET AND HANDRAIL REPAIR - SN 016-2600
61	FENCE RAIL REPAIR - AS-BUILT PLANS - SN 016-2600
62	EAST ABUTMENT REPAIR - SN 016-2600
63	WEST ABUTMENT REPAIR - SN 016-2600
63A	VAULTED ABUTMENT DOOR DETAIL
64	PIER REPAIR - SN 016-2600
65	BAR SPLICER ASSEMBLY - SN 016-2600
66	GENERAL NOTES, BILL OF MATERIALS AND LEGEND - 130TH ST. OVER I-94
67	UNDERPASS LIGHTING REMOVAL PLAN - 130TH ST. OVER I-94
68	UNDERPASS LIGHTING PROPOSED PLAN - 130TH ST. OVER I-94
69	SINGLE LINE WIRING DIAGRAM - 130TH ST. OVER I-94
70	MISC. ELECTRICAL DETAILS SHEET A - 130TH ST. OVER I-94
71-71A	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS - 130TH ST. OVER I-94
72	BD-49 DETAIL FOR CENTERLINE SAW CUT 16' AND VARIABLE JOINTED PCC PAVEMENT FOR RAMPS
73-76	BM-21 REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL
77	TC-08 ENTRANCE AND EXIT RAMP CLOSURE DETAILS
78	TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
79	TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
80	TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
81	TC-16 SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
82	TC-17 TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
83	TC-18 FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS
84	TC-21 DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
85	TC-22 ARTERIAL ROAD INFORMATION SIGN

## IDOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-09	PAVEMENT JOINTS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
643001-02	SAND MODULE IMPACT ATTENUATORS
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701400-10	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ? 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ? 40 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE, INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

MODEL: D:\c4\h...  
 FILE NAME: P:\C\00039 - IDOT\040058\01-002 (ENG) - PTB 1954-016 Phase II Vpr Vpr\Engineering\WG 2 - 130th at I94-RR\500 Drawings\502\_CADD\_Sheets\0162M41-Index.dgn



311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-454-0580  
 www.bowmanconsulting.com

USER NAME = apatel	DESIGNED - KH	REVISED -
	DRAWN - KM	REVISED -
PLOT SCALE = 2,0000 ' / in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

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

### INDEX OF SHEETS AND HIGHWAY STANDARDS

SCALE: NONE    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	2
CONTRACT NO.			62M41	
ILLINOIS		FED. AID PROJECT		

**GENERAL NOTES**

1. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.
2. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
3. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
5. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
6. THE CONTRACTOR SHALL CONTACT THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 AND THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
7. THE RESIDENT ENGINEER SHALL CONTACT THE EXPRESSWAY TRAFFIC FIELD ENGINEER REGINA COOPER AT (847) 705-4153, AND ARTERIAL FIELD ENGINEER AND AREA TRAFFIC FIELD TECHNICIAN PATRICE HARRIS AT (847) 705-4413 AND PATRICE.HARRIS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
8. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED THEIR LOCATION.
9. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
10. THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.
11. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A A SEPARATE PAY ITEM HAS BEEN PROVIDED.
12. FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN THE PLANS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
14. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
15. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
16. SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
17. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.
19. THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWER, WATER MAIN, SANITARY SEWER, AND OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE, AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE PER ARTICLES 105.07 AND 107.31 OF THE STANDARD SPECIFICATIONS. WHEN REQUIRED, LOCATING UTILITIES SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EXPLORATION TRENCH, SPECIAL.
20. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: COMMONWEALTH EDISON CO. AND AT&T
21. THE CONTRACTORS SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA
22. THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR GUARDRAIL REMOVAL.
23. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS, IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
24. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
25. THE CONTRACTOR SHALL CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 AT LEAST TWO WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK.
26. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE PROVIDED TO PROTECT ROADWAY, ADJACENT PROPERTIES, AND WATER COURSES AS PER SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
27. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THE ADVANCE NOTIFICATION IS CALCULATED BASED ON MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.
28. ALL STAGE CHANGES REQUIRING THE STOPPING AND/OR THE PACING OF TRAFFIC SHALL TAKE PLACE DURING THE ALLOWABLE HOURS FOR FULL EXPRESSWAY CLOSURES AND SHALL BE APPROVED BY THE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT LEAST 3 WORKING DAYS (WEEKENDS AND HOLIDAYS DO NOT COUNT INTO THIS 72 HOURS NOTIFICATION) IN ADVANCE OF ANY PROPOSED STAGE CHANGE.
29. USE EXTREME CAUTION NEAR GAS FACILITIES DURING CONSTRUCTION AND RELATED EXCAVATION ACTIVITIES. HAND DIG OR NON-INVASIVE EXCAVATION IS REQUIRED TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF GAS FACILITIES PRIOR TO CROSSING AND WORKING WITHIN 3 FEET OF ALL GAS FACILITIES. A MINIMUM OF 3' HORIZONTAL EDGE TO EDGE CLEARANCE IS REQUIRED FOR GAS FACILITIES WITH DIAMETERS OF 16" OR SMALLER, AND 5FT EDGE TO EDGE CLEARANCE FOR GAS FACILITIES WITH DIAMETERS 18" AND LARGER. MAINTAIN A MINIMUM OF 18"EDGE TO EDGE VERTICAL CLEARANCE WHEN CROSSING GAS FACILITIES 16" OR LESS IN DIAMETER, AND 24" EDGE TO EDGE VERTICAL CLEARANCE WHEN CROSSING 18" AND LARGER DIAMETER GAS FACILITIES. CONTACT 811 CHICAGO/DIGGER 312-744-7000 FOR LOCATES 48 HOURS PRIOR TO START OF CONSTRUCTION.
30. THE USE OF CONCRETE, FLOW FILL, OR THE LIKE IS PROHIBITED WITHIN 24 INCHES OF ALL GAS FACILITIES, NOR SHALL IT ENCASE ANY GAS FACILITY. A BUFFER OF 24" SAND IS TO BE USED BETWEEN FLOW FILL AND ALL GAS FACILITIES. A MINIMUM OF 6" FA-02 OR FM-02 SAND SHALL BE USED WHEN BACKFILLING OTHER MATERIALS AROUND ANY EXPOSED GAS FACILITY. CONTRACTOR EXPOSING GAS FACILITY IS RESPONSIBLE FOR PROVIDING THE SAND. ANY DAMAGES TO PEOPLES GAS FACILITIES SHALL BE THE RESPONSIBILITY OF THE INSTALLING UTILITY AND THEIR CONTRACTOR(S). CALL 866-556-6002 IMMEDIATELY FOR ANY DAMAGES TO THE GAS FACILITIES. VERTICAL ADJUSTMENTS REQUIRED FOR VALVE BASIN FRAMES, COVERS, GAS SHUT-OFF VALVES, ROADWAY BOXES SHALL BE COMMUNICATED TO JACIE SPUDIC, PLANNING-PERMIT GROUP, JACIE.SPUDIC@PEOPLES GASDELIVERY.COM, 4 WEEKS PRIOR TO THE START OF RESTORATION FOR PLANNING & SCHEDULING. ALL GAS FACILITIES ARE TO BE MAINTAINED.

31. PLEASE CONTACT QUENTIN SHIPLEY-MELLON AT MINIMUM TWO (2) WEEKS BEFORE CONSTRUCTION TO COORDINATE IMPACTS TO BUS SERVICE. QSHIPLEY-MELLON@TRANSITCHICAGO.COM OR (312) 681-4119

**COMMITMENTS**

NONE

MODEL: D:\cfd\h... FILE NAME: P:\C\0039... IDOT\040058\01\002 (ENG)... PTB 1954\16 Phase II Vpr Vpr\Engineering\WO 02... 13\th at 104-RR\500 Drawings\502\_CADD\_Sheets\162M41.rvt\c:\contracts.dgn



311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-414-0560  
 www.bowmanconsulting.com

USER NAME = kmaus	DESIGNED - KH	REVISED -
	DRAWN - KM	REVISED -
PLOT SCALE = 2,0000 ' / in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

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

**GENERAL NOTES AND COMMITMENTS**

SCALE: NONE    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	3
CONTRACT NO.			62M41	
ILLINOIS		FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE	
				80% FED 20% STATE	
				BRIDGE REHAB 0059 SN 016-2434	BRIDGE REHAB 0059 SN 016-2600
20200100	EARTH EXCAVATION	CU YD	224		224
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	576		576
44000100	PAVEMENT REMOVAL	SQ YD	576		576
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	668		668
44003100	MEDIAN REMOVAL	SQ FT	6,532		6,532
44200573	CLASS A PATCHES, TYPE I, 12 INCH	SQ YD	20		20
50102400	CONCRETE REMOVAL	CU YD	48.3	19.1	29.2
44200577	CLASS A PATCHES, TYPE II, 12 INCH	SQ YD	20		20
50157300	PROTECTIVE SHIELD	SQ YD	2,728	650	2,078
44200581	CLASS A PATCHES, TYPE III, 12 INCH	SQ YD	40		40
50300225	CONCRETE STRUCTURES	CU YD	19.1		19.1
44200583	CLASS A PATCHES, TYPE IV, 12 INCH	SQ YD	720		720
50300255	CONCRETE SUPERSTRUCTURE	CU YD	48.3	19.1	29.2
50300260	BRIDGE DECK GROOVING	SQ YD	6,693	2,761	3,932
50300300	PROTECTIVE COAT	SQ YD	7,053	2,959	4,094
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7,950	2,560	5,390
50800515	BAR SPLICERS	EACH	44	22	22
52000110	PREFORMED JOINT STRIP SEAL	FOOT	378.0	152.0	226.0
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	4		4

MODEL: Default  
 FILE NAME: P:\030558 - IDOT\030558-01-002 (ENG) - PTB 195-016 Phase II Vpr Vpr\Engineering\WO 2 - 130th at 84-RR1500 Drawings\502 CADD Sheets\162M41-Sub-S0001.dgn



USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISIONS -	
PLOT SCALE = 2.0000' / in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET 1	OF 6 SHEETS	STA. TO STA.

F.A.P. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 4
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	

REV-SEP

MODEL: D:\p\p\1 - IDOT\040058-01\02 (ENG) - PTB 195-016 Phase II Ver. Vot\Engineering\WO 2 - 130th at PM-RR1500 Drawing\502 CADD Sheets\162M41-2nt-S0002.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE	
				80% FED 20% STATE	
				BRIDGE REHAB 0059 SN 016-2434	BRIDGE REHAB 0059 SN 016-2600
58700300	CONCRETE SEALER	SQ FT	26,606	16,278	10,328
59000200	EPOXY CRACK INJECTION	FOOT	60.0	20.0	40.0
59200101	BRIDGE WASHING NO. 1	EACH	1	1	
59200102	BRIDGE WASHING NO. 2	EACH	1		1
60609200	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12	FOOT	668		668
60618320	CONCRETE MEDIAN SURFACE, 6 INCH	SQ FT	2,001		2,001
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	6,335		6,335
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	450		450
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2		2
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2		2
63302700	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6	EACH	4		4
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	192		192
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2		2
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1		1
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1		1
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	1		1

\* SPECIALTY ITEM REV-SEP



USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	CHECKED - AP	REVISED -
PLOT SCALE = 2.0000' / in.	DATE - 3/17/2021	REVISED -
PLOT DATE = 3/17/2021		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NONE SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	5
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				

MODEL: D:\p\j\l... IDOT\040058\01\02 (ENG) - 2TB 195-016 Phase II Ver. Vot(Engineering)\WO 2 - 130th at I44-RR1500 Drawing\502 CADD Sheets\161M41-2ht-50003.dgn  
 FILE NAME: PLO10058

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE	
				80% FED 20% STATE	
				BRIDGE REHAB	BRIDGE REHAB
				0059 SN 016-2434	0059 SN 016-2600
67100100	MOBILIZATION	L SUM	1		1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	133		133
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	1088		1088
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	133		133
70107009	PAVEMENT MARKING BLACKOUT TAPE, 9"	FOOT	93		1088
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1		1
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	50		50
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	73		73
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	41,108		41,108
70300906	PAVEMENT MARKING TAPE, TYPE IV 6"	FOOT	350		350
70300908	PAVEMENT MARKING TAPE, TYPE IV 8"	FOOT	1,143		1,143
70400100	TEMPORARY CONCRETE BARRIER	FOOT	6,250		6,250
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,613		1,613
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	4		4
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2		2
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	6		6
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2		2
* 78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	73		73

**\* SPECIALTY ITEM**

REV-SEP



USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	CHECKED - AP	REVISED -
PLOT SCALE = 2.0000' / in.	DATE - 3/17/2021	REVISED -
PLOT DATE = 3/17/2021		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET 3	OF 6 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	6
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				

MODEL: D:\c\j\l... IDOT\040058-01-C02 (ENG) - PTB 195-016 Phase II Ver. Vot\Engineering\WO 2 - 130th at PA-RR1500 Drawing\502 CADD Sheets\162M41-2ht-S0004.dgn  
 FILE NAME: P:\040058 - IDOT\040058-01-C02 (ENG) - PTB 195-016 Phase II Ver. Vot\Engineering\WO 2 - 130th at PA-RR1500 Drawing\502 CADD Sheets\162M41-2ht-S0004.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE	
				80% FED 20% STATE	
				BRIDGE REHAB 0059 SN 016-2434	BRIDGE REHAB 0059 SN 016-2600
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	10,219		10,219
* 78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	5,997		5,997
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	1,242		1,242
* 78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	10		10
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	333		333
* 81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	642		642
* 81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	15		15
* 81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"	EACH	12		12
* 81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"X10"X6"	EACH	6		6
* 81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"X18"X8"	EACH	2		2
* 81603081	UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	200		200
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,136		2,136
* 82110021	LUMINAIRE, LED, UNDERPASS, WALL MOUNTED, OUTPUT DESIGNATION D	EACH	6		6
* 82110026	LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION D	EACH	6		6
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2		2
<input type="checkbox"/> X0322215	CLEANING BRIDGE SCUPPERS AND DOWNSPOUTS	EACH	10	10	
X0323818	CLEANING AND PAINTING EXPOSED REBAR	SQ FT	24		24
X0327773	ACCESS DOOR	EACH	2		2

NON-PART 100% STATE    \* SPECIALTY ITEM    REV-SEP



USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISIONS -	
PLOT SCALE = 2.0000' / in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET 4	OF 6 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	7
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE	
				80% FED 20% STATE	
				BRIDGE REHAB 0059 SN 016-2434	BRIDGE REHAB 0059 SN 016-2600
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	8,356		8,356
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	2,001		2,001
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	12		12
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1		1
X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	180		180
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	44,512		44,512
X8430100	REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE	FOOT	612.5		612.5
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	58.9	38.7	20.2
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	6.4	5.0	1.4
Z0005874	BONDED PREFORMED JOINT SEALER, 3 INCH	FOOT	323.4	133.0	190.4
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	6,875	2,863	4,012
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	5,497	2,257	3,240
Z0012142	BRIDGE DECK SCARIFICATION 2 1/4"	SQ YD	1,378	606	772

\* SPECIALTY ITEM

REV-SEP

MODEL: Default  
FILE NAME: P:\00058 - IDOT\00058\01\02 (ENG) - PTB 195-016 Phase II Ver. Ver\Engineering\WO 2 - 130th at PH-RRIS00 Drawing\502 CADD Sheets\162M41-2ht-S0005.dgn



USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISIONS -	
PLOT SCALE = 2.0000' / in.	CHECKED - AP	REVISIONS -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISIONS -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	8
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				



CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE	
				80% FED 20% STATE	
				BRIDGE REHAB 0059 SN 016-2434	BRIDGE REHAB 0059 SN 016-2600
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	868.3	139	729.3
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	171.5	41	130.5
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	0.9	0.4	0.5
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	11.6	0.7	10.9
Z0018051	DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	10	10	
□ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4		4
Z0021902	SILICONE JOINT SEALER, 1/2"	FOOT	226.0		226.0
Z0029603	HANDRAIL REPAIRS	L SUM	1		1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	43		43
* Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12		12
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
Z0062456	TEMPORARY PAVEMENT	SQ YD	576		576
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	8	4	4
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2		2
∅ Z0076600	TRAINEES	HOURS	500	500	
∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500	

∅ 0042    □ NON-PART 100% STATE    \* SPECIALTY ITEM    REV-SEP

MODEL: D:\c\j\l\...  
 FILE NAME: P:\0\0058 - IDOT\00058\01\02 (ENG) - PTB 195-016 Phase II Ver. Vpr\Engineering\WO 2 - 130th at PA-RR\500 Drawing\502 CADD Sheets\162M41-2ht-50006.dgn



USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISIONS -	
PLOT SCALE = 2.0000' / in.	CHECKED - AP	REVISIONS -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET 6 OF 6 SHEETS	STA.	TO STA.

F.A.P. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 9
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	

**EARTH EXCAVATION (CODE NUMBER 20200100)**

DRAWING #	BEGIN STA	END STA	L/R	AREA (SF)	EX DEPTH(FT)	CU FT	CU YD
Sheet 26	20+27.90	21+69.40	CL	1164.49	1.1667	1358.61	50.32
Bottom View	27+49.29	29+69.85	CL	1047.96	1.1667	1222.65	45.28
Sheet 27	35+37.47	36+09.54	CL	347.12	1.1667	404.98	15.00
Top View	41+69.28	45+00.00	CL	1585.31	1.1667	1849.58	68.50
Sheet 27, Bot.	45+00.00	47+16.51	CL	1036.4	1.1667	1209.17	44.78

**PAVEMENT REMOVAL (CODE NUMBER 44000100)**

DRAWING #	BEGIN STA	END STA	L/R	AREA (SF)	AREA (SY)
Sheet 26	20+27.90	21+69.40	CL	1164.49	129.3877778
Bottom View	27+49.29	29+69.85	CL	1047.96	116.44
Sheet 27	35+37.47	36+09.54	CL	347.12	38.56888889
Top View	41+69.28	45+00.00	CL	1585.31	176.1455556
Sheet 27, Bot.	45+00.00	47+16.51	CL	1036.4	115.1555556

**POLYUREA PAVEMENT MARKING TYPE 1 – LETTERS AND SYMBOLS (CODE NUMBER 78008200)**

DRAWING #	DESCRIPTION	STA	OFFSET	L/R	AREA (SQ FT)
Sheet 28	Right Only Turn Symbol	13+09.98	30.77	R	36.4
Top View	Left Only Turn Symbol	13+14.47	4.91	L	36.4

**POLYUREA PAVEMENT MARKING TYPE I – LINE 4" (CODE NUMBER 78008210)**

DRAWING #	DESCRIPTION	BEGIN STA	END STA	BEGIN OFFSET	END OFFSET	L/R	TOTAL LENGTH	MULTIPLIER*	MARKING LENGTH(FT)
Sheet 28 Bottom View	4" Solid White	17+88.85	27+52.26	31.19	38.70	R	1152.67	1.00	1152.67
	4" Skip Dash White (10' Dash 30' Skip)	17+88.88	30+00.00	18.86	14.70	R	1422.06	0.25	355.52
	4" Solid Yellow	17+89.23	30+00.00	6.52	2.70	R	1422.14	1.00	1422.14
	4" Solid White	19+00.03	2668.11	34.87	45.07	L	774.61	1.00	774.61
Sheet 29 Top View	4" Skip Dash White (10' Dash 30' Skip)	18+59.50	30+00.00	21.19	15.63	L	1140.5	0.25	285.13
	4" Solid Yellow	18+73.31	30+00.00	8.81	3.63	L	1126.68	1.00	1126.68
	4" Skip Dash White (10' Dash 30' Skip)	30+00.00	45+00.00	15.63	15.51	L	1500.00	0.25	375.00
	4" Solid Yellow	30+00.00	45+00.00	3.63	3.58	L	1500.00	1.00	1500.00
	4" Solid Yellow	30+00.00	45+00.00	2.70	2.79	R	1500.00	1.00	1500.00
	4" Skip Dash White (10' Dash 30' Skip)	30+00.00	45+00.00	14.70	14.79	R	1500.00	0.25	375.00
	4" Solid White	30+69.73	31+00.15	59.32	74.17	L	34.29	1.00	34.29
	4" Solid Yellow	30+75.71	31+08.72	44.51	60.71	L	37.16	1.00	37.16
	4" Solid White	33+73.80	33+97.02	105.97	88.79	L	29.33	1.00	29.33
	4" Solid Yellow	41+86.89	42+09.71	42.02	54.64	L	26.10	1.00	26.10
	4" Solid White	43+89.35	44+34.82	55.40	80.94	R	50.98	1.00	50.98
	4" Solid White	45+00.00	46+42.52	27.44	27.18	L	142.5	1.00	142.50
Sheet 29 Bottom View	4" Skip Dash White (10' Dash 30' Skip)	45+00.00	49+69.38	15.51	14.11	L	469.38	0.25	117.35
	4" Solid Yellow	45+00.00	49+85.91	3.58	2.61	L	485.91	1.00	485.91
	4" Solid Yellow	45+00.00	48+44.22	2.79	2.18	R	344.22	1.00	344.22
	4" Skip Dash White (10' Dash 30' Skip)	45+00.00	48+37.05	14.79	13.52	R	337.05	0.25	84.26

\*MULTIPLIER USED TO CONVERT FROM LINEAR FEET MEASURED TO LINEAR FEET OF MARKING

**POLYUREA PAVEMENT MARKING TYPE I – LINE 8" (CODE NUMBER 78008240)**

DRAWING #	DESCRIPTION	BEGIN STA	END STA	BEGIN OFFSET	END OFFSET	L/R	TOTAL LENGTH	MULTIPLIER*	MARKING LENGTH(FT)
Sheet 28 Bottom View	8" Skip Dash White (3' Dash 9' Skip)	23+43.78	28+78.20	27.22	26.70	R	534.42	0.25	133.61
	8" Solid White	27+17.49	30+00.00	63.52	40.77	L	294.94	1.00	294.94
	8" Skip Dash White (3' Dash 9' Skip)	27+51.22	30+00.00	27.63	27.63	L	248.78	0.25	62.20
	8" Solid White	27+52.26	30+00.00	38.70	82.04	R	253.14	1.00	253.14
	8" Solid White	28+78.20	30+00.00	26.70	26.70	R	121.04	1.00	121.04
	8" Solid White	28+78.20	30+00.00	26.70	64.48	R	127.49	1.00	127.49
Sheet 29 Top View	8" Solid White	30+00.00	30+69.73	40.77	59.32	L	73.12	1.00	73.12
	8" Skip Dash White (3' Dash 9' Skip)	30+00.00	30+17.39	27.63	27.63	L	17.50	0.25	4.38
	8" Solid White	30+00.00	34+83.17	26.70	26.69	R	483.17	1.00	483.17
	8" Solid White	30+00.00	30+37.15	64.48	89.60	R	34.29	1.00	34.29
	8" Solid White	30+00.00	30+33.46	82.04	106.07	R	40.64	1.00	40.64
	8" Solid White	30+17.39	30+75.71	27.63	44.51	L	61.29	1.00	61.29
	8" Solid White	30+17.39	35+49.13	27.63	27.61	L	531.74	1.00	531.74
	8" Solid White	33+97.02	41+60.75	88.79	47.63	L	747.83	1.00	747.83
	8" Solid White	33+61.76	34+54.54	70.67	26.71	R	102.85	1.00	102.85
	8" Solid White	34+15.22	35+16.34	60.78	27.61	L	107.83	1.00	107.83
	8" Solid White	33+75.63	43+56.47	78.93	59.87	R	902.68	1.00	902.68
	8" Skip Dash White (3' Dash 9' Skip)	34+83.17	42+35.20	26.69	26.59	R	837.27	0.25	209.32
	8" Skip Dash White (3' Dash 9' Skip)	35+49.13	41+19.16	27.61	27.61	L	570.03	0.25	142.51
	8" Solid White	41+19.16	45+00.00	27.61	27.44	L	380.84	1.00	380.84
	8" Solid White	41+46.70	41+86.89	27.72	42.02	L	44.69	1.00	44.69
	8" Solid White	42+93.43	43+89.35	26.71	55.40	R	98.58	1.00	98.58
	8" Solid White	43+35.20	45+00.00	26.59	26.79	R	164.80	1.00	164.80
	8" Solid White	45+00.00	48+27.18	26.79	25.02	R	327.18	1.00	327.18
	8" Solid White	46+42.52	48+67.81	27.18	26.30	L	225.29	1.00	225.29
	Sheet 29 Bottom View	8" Solid White	189+69.99	191+30.54	54.58	55.81	R	160.55	1.00
Sheet 24 Top View	8" Solid White	190+44.84	192+05.26	56.86	56.58	L	160.42	1.00	160.42

\*MULTIPLIER USED TO CONVERT FROM LINEAR FEET MEASURED TO LINEAR FEET OF MARKING

**POLYUREA PAVEMENT MARKING TYPE I – LINE 12" (CODE NUMBER 78008250)**

DRAWING #	DESCRIPTION	BEGIN STA	END STA	BEGIN OFFSET	END OFFSET	L/R	TOTAL LENGTH	MULTIPLIER*	MARKING LENGTH(FT)
Sheet 28, Bot	12" Diagonal White	29+23.06	30+00.00	Var.	Var.	R	89.21	1.00	89.21
Sheet 29 Top View	12" Diagonal White	30+07.00	34+43.45	Var.	Var.	R	287.88	1.00	287.88
	12" Diagonal White	30+31.94	34+93.49	Var.	Var.	L	353.43	1.00	353.43
	12" Diagonal White	41+57.46	41+75.95	Var.	Var.	L	15.84	1.00	15.84
Sheet 29 Bottom View	12" Diagonal White	43+09.64	45+00.00	Var.	Var.	R	182.71	1.00	182.71
	12" Diagonal White	45+00.00	47+46.50	Var.	Var.	R	128.01	1.00	128.01
Sheet 29 Bottom View	12" Diagonal White	46+47.74	48+20.38	Var.	Var.	L	184.47	1.00	184.47

\*MULTIPLIER USED TO CONVERT FROM LINEAR FEET MEASURED TO LINEAR FEET OF MARKING

MODEL: D:\p\p\p\10000000 - I\DOT\040058501\002 - ENG - PTB - 195-015 Phase II Var. Var. Engineering\WO 2 - 130th at 19th-RB1500 - Drawings\502 - CADD - Sheets\040058501 - substructure\01.dgn



USER NAME = apatel	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
PLOT SCALE = 2,000' / in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE: NONE	SHEET 1	OF 1	SHEETS
STA.	TO STA.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	10
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				

# MAINTENANCE OF TRAFFIC NOTES

## 130TH STREET TRAFFIC CONTROL PLAN & DETOUR

PRE-STAGE: CURB & GUTTER/MEDIAN REMOVAL AND PLACEMENT OF TEMPORARY HMA PAVEMENT

STAGE 1: WESTBOUND VEHICLES WILL OCCUPY THE INSIDE EASTBOUND LANE, AND THE EASTBOUND VEHICLES WILL OCCUPY THE OUTSIDE EASTBOUND LANE. THE I-94 WB TO 130TH STREET WB LOOP RAMP WILL BE CLOSED AND VEHICLES WILL DETOUR AT 115TH STREET.

SEE DISTRICT TRAFFIC CONTROL STANDARD TC-08 FOR RAMP CLOSURE SIGNAGE REQUIREMENTS. ADDITIONALLY, PLEASE NOTIFY THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR 21 DAYS IN ADVANCE OF RAMP CLOSURES 1-847-705-4155.

STAGE 2: THE EASTBOUND VEHICLES WILL OCCUPY THE INSIDE WESTBOUND LANE, AND THE WESTBOUND VEHICLES WILL OCCUPY THE OUTSIDE WESTBOUND LANE. THE I-94 EB TO 130TH STREET EB LOOP RAMP WILL BE CLOSED AND VEHICLES WILL DETOUR AT 137TH STREET. 137TH STREET RAMP SHALL BE REPAIRED WITH CONCRETE PATCHING. DUE TO ADDED TRAFFIC VOLUMES AND EXISTING CONDITION OF THE CONCRETE PAVEMENT.

STAGE 3: TWO LANES IN THE EASTBOUND AND WESTBOUND DIRECTIONS WILL BE MAINTAINED WITH REDUCED WIDTHS. THE TEMPORARY PAVEMENT WILL BE REMOVED AND THE MEDIAN WILL BE REPLACED.

ADVANCED WARNING SIGNS AND TEMPORARY BARRELS WILL BE SET UP PRIOR TO THE START OF THE PROJECT. TEMPORARY CONCRETE BARRIERS WILL BE UTILIZED TO CREATE A SAFER WORK ENVIRONMENT DURING CONSTRUCTION. SIGNS, BARRICADES, AND TEMPORARY STRIPING TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST VERSION.

## I-94 TRAFFIC CONTROL PLAN

THE PROPOSED TRAFFIC CONTROL PLAN (TCP) CONSISTS OF TWO (2) STAGES OF CONSTRUCTION.

STAGE 1: THE EXISTING OUTSIDE SHOULDERS WILL BE CLOSED TO ALLOW WORK TO BE PERFORMED ABOVE. NO LANE CLOSURES OR MODIFICATION OF EXISTING TRAFFIC IS PROPOSED. SIGNAGE TO CONFORM TO DETAIL TC-17.

STAGE 2: THE WORK WILL BE PERFORMED IN THE MEDIAN BETWEEN THE DIRECTIONS OF TRAFFIC. THE INSIDE LANE OF EACH DIRECTION WILL BE CLOSED, REDUCING THE THROUGH LANES IN EACH DIRECTION FROM 3 TO 2. NO ADDITIONAL TRAFFIC MODIFICATION IS PROPOSED. ALL WORK DURING THIS STAGE WILL BE PERFORMED OVERNIGHT PER THE SPECIFICATIONS AS OUTLINED BELOW. PER THE BDE MANUAL, TRAFFIC CONTROL STANDARDS 701400 & 701401 SHOULD BE UTILIZED FOR OVERNIGHT LANE CLOSURES, WHICH INCLUDES GUIDANCE ON ALL TRAFFIC CONTROL DEVICES, SIGNAGE, TAPERS, AND TEMPORARY PAVEMENT MARKINGS. STANDARDS 701400 & 701401 WILL BE UTILIZED WITH A 45 MPH WORK ZONE SPEED LIMIT. PER CHAPTER 13-3.04 OF THE WORK ZONE TMP, NIGHT WORK SHOULD ALSO MEET ALL LIGHTING SPECIFICATIONS OUTLINED IN SECTION 702 OF THE ILLINOIS HIGHWAY STANDARDS FOR TRAFFIC CONTROL AND DISTRICT ONE SPECIAL PROVISION FOR NIGHTTIME WORK LIGHTING. ALL OVERNIGHT WORK INCLUDING ALLOWABLE LANE CLOSURE HOURS TO CONFORM TO THE STANDARDS AS OUTLINED IN THE MEMORANDUM "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC." NIGHTTIME FLAGGING AND SPOTTING SHALL BE PROVIDED PER "TRAFFIC SPOTTERS" SPECIAL PROVISION 80410.

STAGE 2 I-94 MOT PLANS NOT INCLUDED. FOLLOW THE DISTRICT ONE AND BDE STANDARDS IDENTIFIED ABOVE FOR TEMPORARY TRAFFIC CONTROL STAGING.

ALL ON AND OFF RAMP AND AUXILIARY LANES WILL BE OPEN AND MAINTAINED AS EXISTING IN BOTH STAGES.

ADVANCED WARNING SIGNS WILL BE SET UP PRIOR TO THE START OF THE PROJECT. TEMPORARY CONCRETE BARRIERS WITH IMPACT ATTENUATORS WILL BE UTILIZED DURING STAGE 1 TO CREATE A SAFER WORK ENVIRONMENT DURING CONSTRUCTION. SIGNS, BARRICADES, AND TEMPORARY STRIPING TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST VERSION.

## NOTE ON WORK ORDER PRECEDENCE

130TH STREET AND I-94 MOT STAGING SHALL NOT BE ACTIVE SIMULTANEOUSLY. DUE TO THE NORTHEAST AND SOUTHWEST LOOP RAMP CLOSURE REQUIRED AS PART OF 130TH MOT, I-94 MOT STAGING SHALL NOT BE IMPLEMENTED AT THE SAME TIME. ALL RAMP AT 130TH STREET AND I-94 WILL BE OPEN WHILE I-94 SUBSTRUCTURE REPAIR WORK IS BEING CONDUCTED AND STAGING IS IN PLACE. RAMP CLOSURES ARE SHOWN IN THE MOT PLANS FOR 130TH STREET AND RAILROAD SUPERSTRUCTURE WORK ONLY.

## MOT SHEETS LABELING NOTATION

LETTERS WILL BE USED DESIGNATE TEMPORARY PAVEMENT MARKINGS ON MOT LAYOUT (SEE MOT LEGEND AND SYMBOLS).

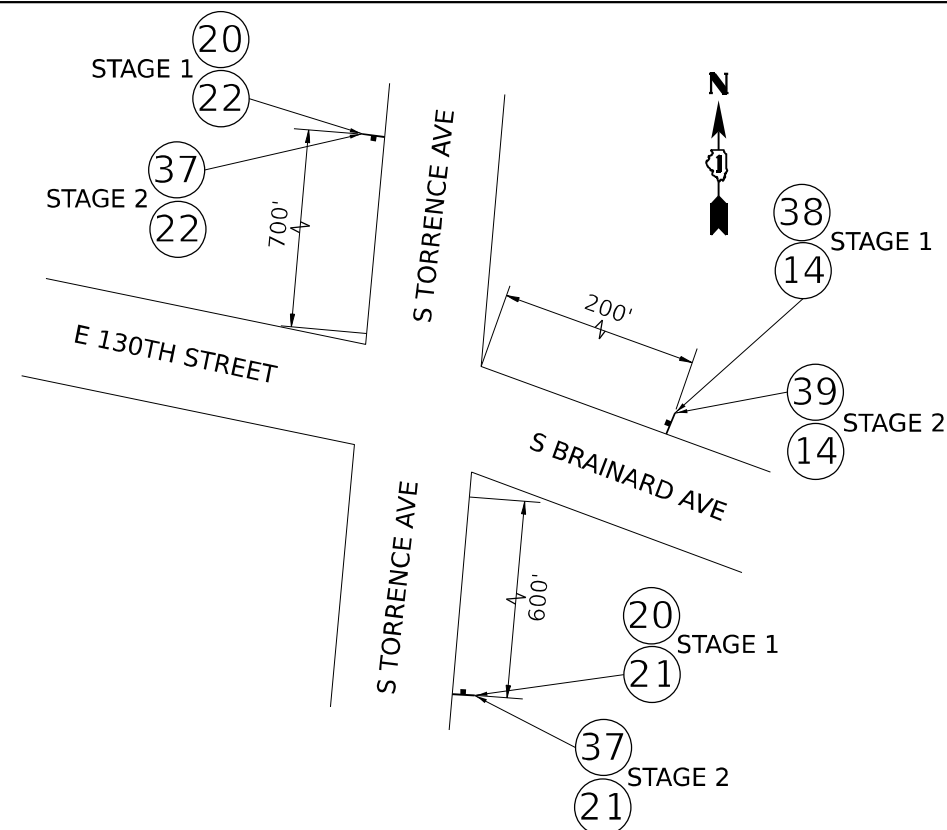
NUMBERS WILL BE USED TO DESIGNATE TEMPORARY SIGNAGE USED IN MOT LAYOUT (SEE SHEET 17).

## 130TH STREET WIDTH RESTRICTION ADVANCED SIGNAGE

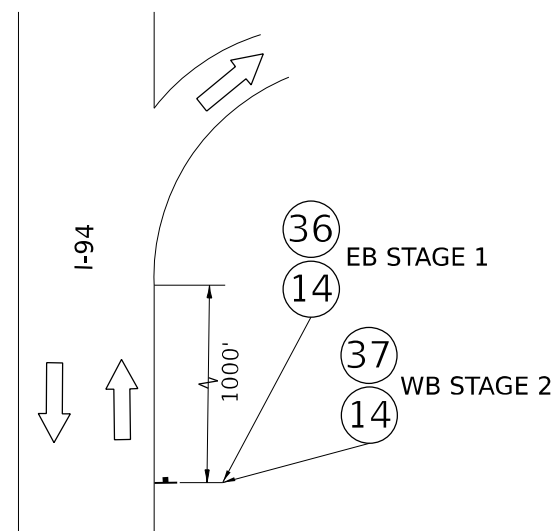
MOT STAGES 1 AND 2 WILL CREATE A WIDTH RESTRICTION ON 130TH STREET. TRAFFIC APPROACHING 130TH STREET FROM THE EAST AND WEST MUST BE INFORMED OF THESE WIDTH RESTRICTIONS WITH ADVANCE SIGNING DESCRIBED BELOW. IN ADDITION, TRAFFIC ENTERING 130TH STREET FROM I-94 MUST BE ADVISED OF THIS WIDTH RESTRICTION FOR RAMP NOT CLOSED DUE TO MAINTENANCE OF TRAFFIC SCHEME.

IN STAGE 1, EB TRAFFIC SHALL BE SHOWN A POSTED 10'-11" WIDTH RESTRICTION, AND WB TRAFFIC SHALL BE SHOWN A POSTED 10'-6" WIDTH RESTRICTION.

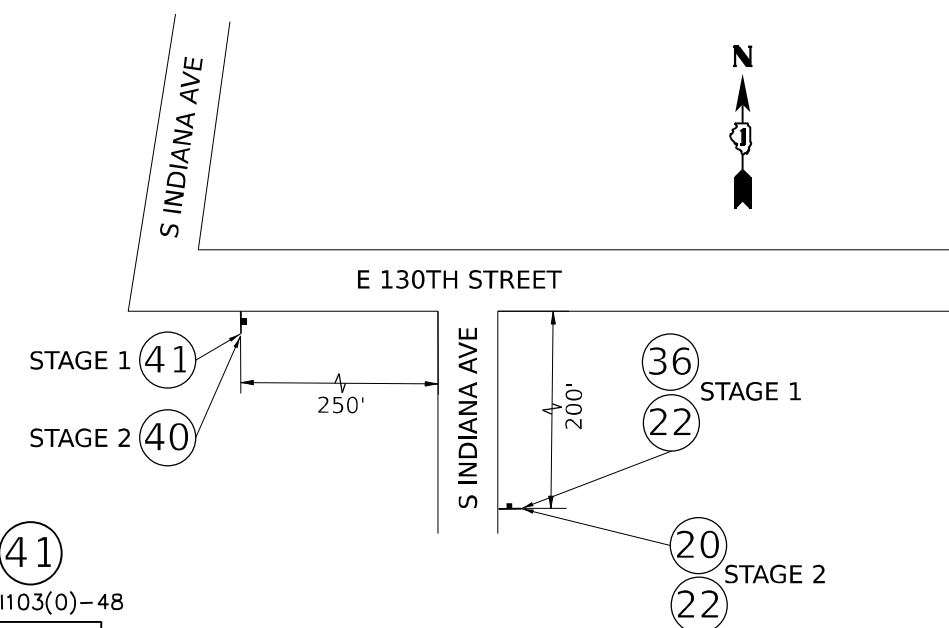
IN STAGE 2, EB TRAFFIC SHALL BE SHOWN A POSTED 10'-6" WIDTH RESTRICTION, AND WB TRAFFIC SHALL BE SHOWN A POSTED 11'-5" WIDTH RESTRICTION.



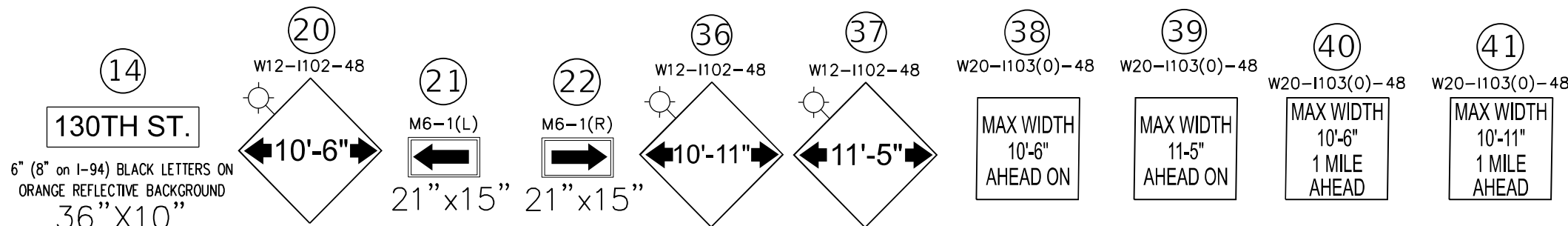
WIDTH RESTRICTION ADVANCE SIGNAGE  
E 130TH ST/S BRAINARD AVE/S TORRENCE AVE



WIDTH RESTRICTION ADVANCE SIGNAGE  
I-94 TO 130TH STREET RAMPS (TYPICAL)



WIDTH RESTRICTION ADVANCE SIGNAGE  
E 130TH ST/S INDIANA AVE



MODEL: D:\p1\11... FILE NAME: P:\C\0089... IDOT\040089\01\002 (ENG) - PTB 1954\16 Phase II Vpr Vpr\Engineering\WO 02 - 130th at I94-R&S-500 Drawings\502\_CADD\_Sheets\12\2M41.rvt-MOTnotes.dgn



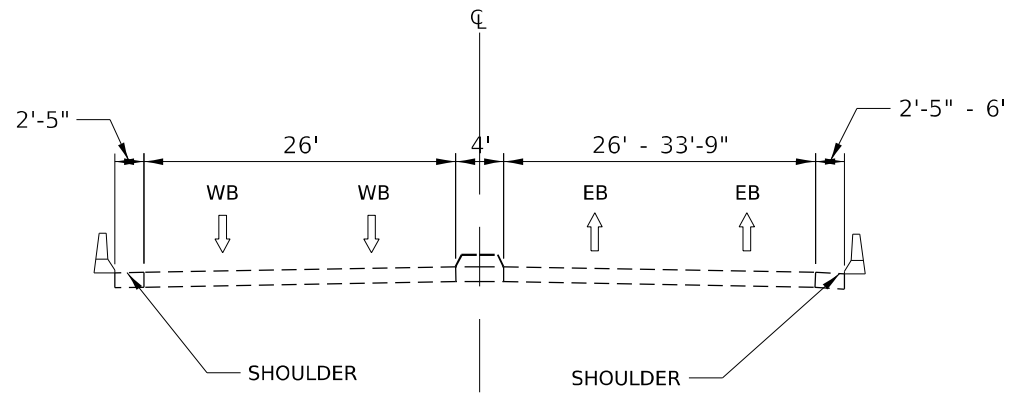
USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
PLOT SCALE = 2,000' / in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

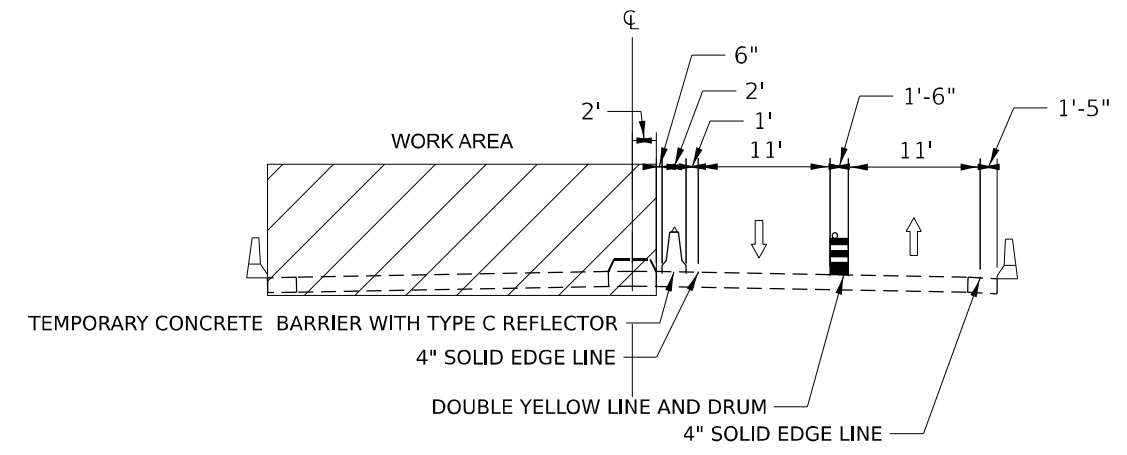
MAINTENANCE OF TRAFFIC NOTES

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

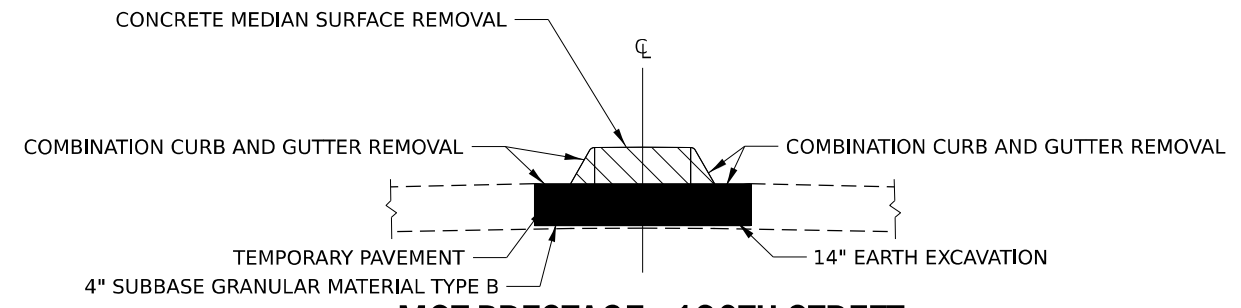
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	11
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				



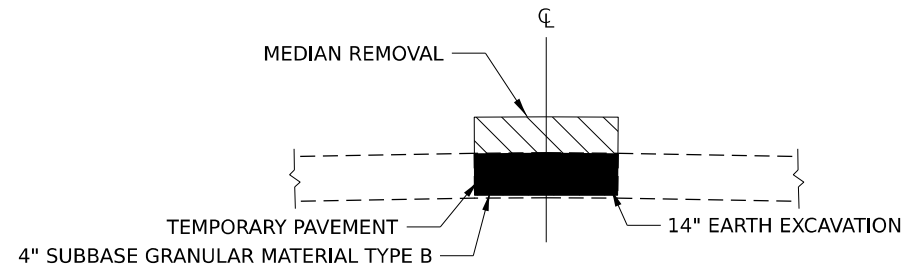
**SN 016-2434 EXISTING TYPICAL SECTION - 130TH STREET**  
 BRIDGE OVER CSSS AND IHB RR  
 STA 22+33.22 TO 26+42.76



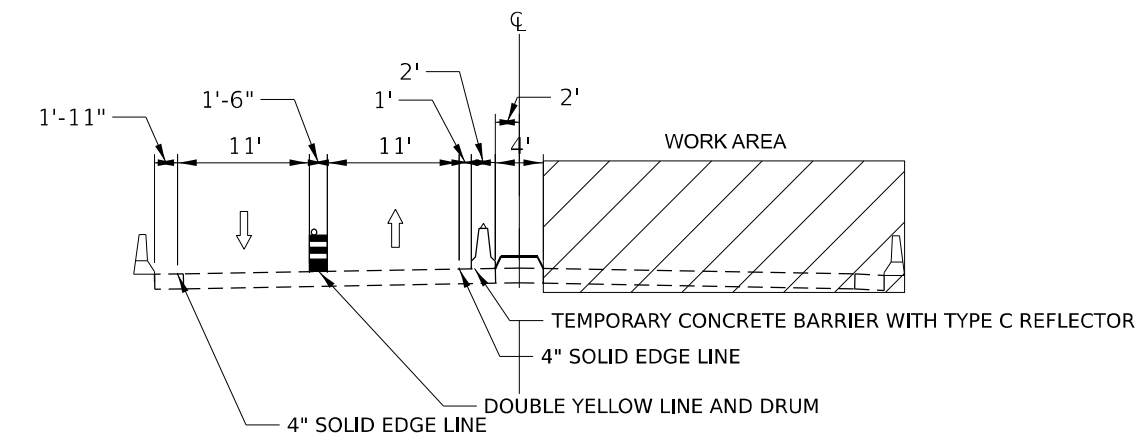
**SN 016-2434 STAGE 1 TYPICAL SECTION - 130TH STREET**  
 BRIDGE OVER CSSS AND IHB RR  
 STA 22+33.22 TO 26+42.76



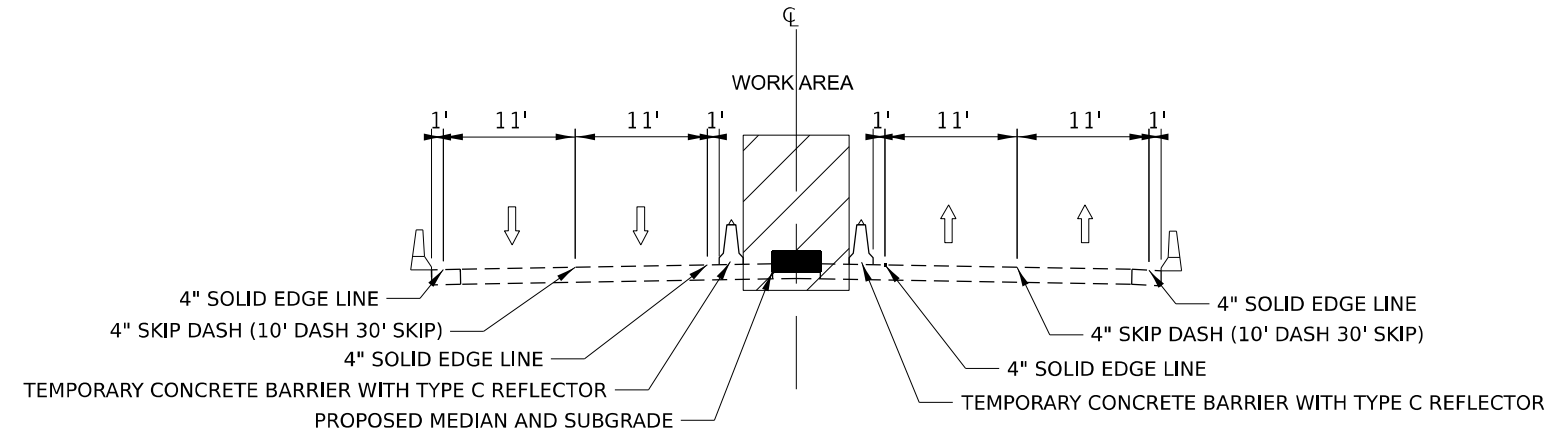
**MOT PRESTAGE - 130TH STREET**  
 STA 20+27.90 TO 21+69.40



**MOT PRESTAGE - 130TH STREET**  
 STA 27+49.29 TO 29+69.85  
 STA 35+37.47 TO 36+09.54  
 STA 41+69.28 TO 47+16.51



**SN 016-2434 STAGE 2 TYPICAL SECTION - 130TH STREET**  
 BRIDGE OVER CSSS AND IHB RR  
 STA 22+33.22 TO 26+42.76



**SN 016-2434 STAGE 3 TYPICAL SECTION - 130TH STREET**  
 BRIDGE OVER CSSS AND IHB RR  
 STA 22+33.22 TO 26+42.76

HMA MIX REQUIREMENTS TABLE		QMP
MIXTURE TYPE	AIR VOIDS @ NDES	
OPTION 1 - FULL DEPTH TEMPORARY HMA PAVEMENT		
10" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	QC/QA

QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)

- NOTES:
1. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG-76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY SPECIAL PROVISIONS.
  2. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
  3. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
  4. TEMPORARY PAVEMENT OPTION 2 IS 8" TEMPORARY PCC. THIS SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART 1020 OF THE STANDARD SPECIFICATIONS. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.
  5. BOTH TEMPORARY PAVEMENT OPTIONS WILL INCLUDE 4" SUBBASE GRANULAR MATERIAL TYPE B (CA-6). THIS ITEM WILL BE PAID PER SQUARE YARD (PAY ITEM NUMBER 31101200).

MODEL: D:\p4\11... FILE NAME: P:\000000... IDOT\04005801\002 (ENG)... 130th at I94-RR1500... DRAWING: 502\_CADD\_Sheets\0162434\1-SubMOTSections\_130th\_RR.dwg



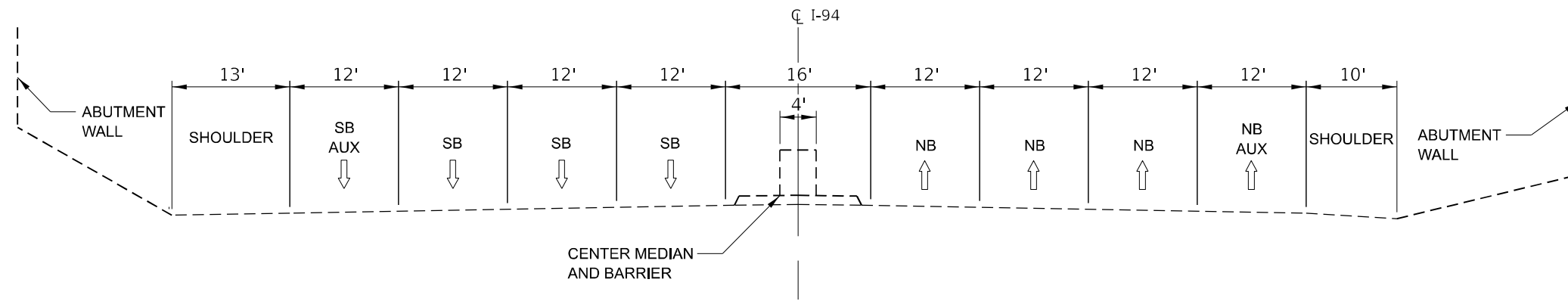
USER NAME = kjejtmanek	DESIGNED - KH	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS</b>			
<b>SN 016-2434</b>			
SCALE:	SHEET 1	OF 3 SHEETS	STA. TO STA.

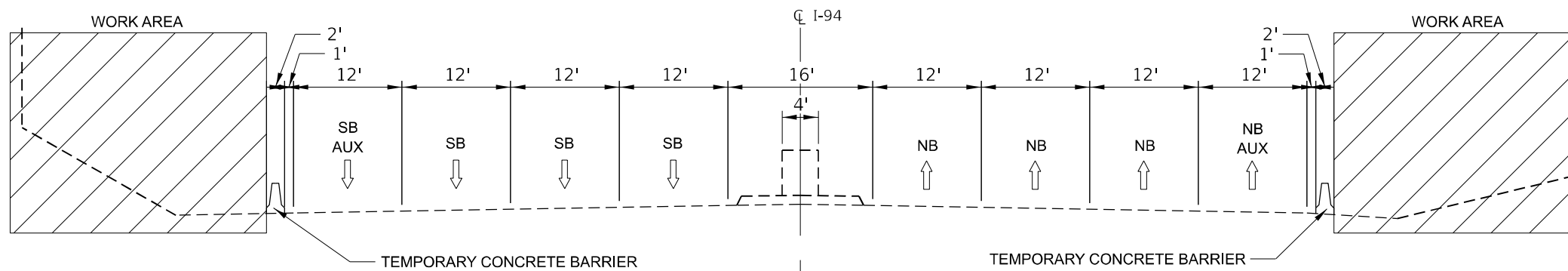
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	12
CONTRACT NO.			62M41	
ILLINOIS		FED. AID PROJECT		





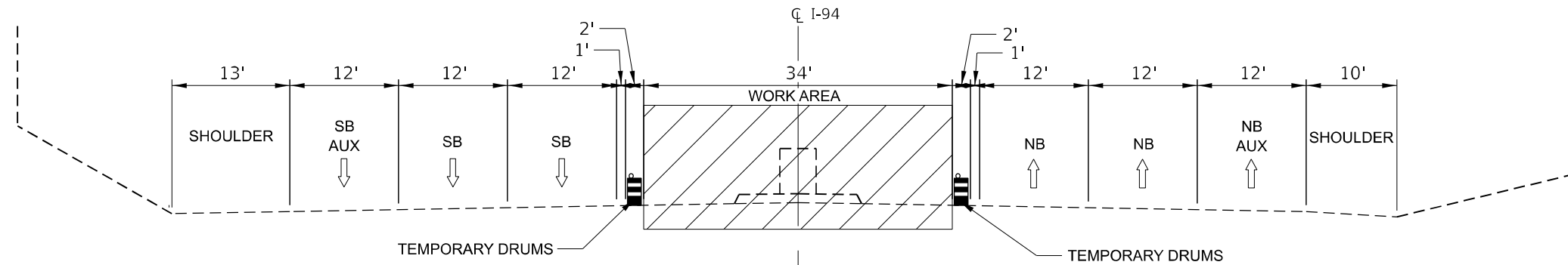
**EXISTING TYPICAL SECTION - INTERSTATE 94**

UNDER 130TH STREET BRIDGE  
STA 189+75 TO 192+00



**STAGE 1 TYPICAL SECTION - INTERSTATE 94**

UNDER 130TH STREET BRIDGE  
STA 189+75 TO 192+00



**STAGE 2 TYPICAL SECTION - INTERSTATE 94**

UNDER 130TH STREET BRIDGE  
STA 189+75 TO 192+00

REFERNECE STANDARDS 701400 AND 701401 FOR ALL STAGE 2 LAYOUTS

**NOTE:**  
SEE KEEPING THE EXPRESSWAY OPEN TO TRAFFIC  
CONTRACT SPECIAL PROVISION FOR ALLOWABLE NIGHT  
TIME LANE CLOSURES HOURS ON I-94.

MODEL: D:\p4\h\...  
 FILE NAME: P:\00000000 - IDOT\04000000\002 (ENG) - PTB 195-016 Phase II Vpr Vpr\Engineering\WO 2 - 130th at I94-RR1900 Drawing\502 CADD Sheets\1-21-2021\1-21-2021\Section\_IB4.dgn  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-464-6900  
 www.bowmanconsulting.com



USER NAME = kjejtmanek	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS  
I-94**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

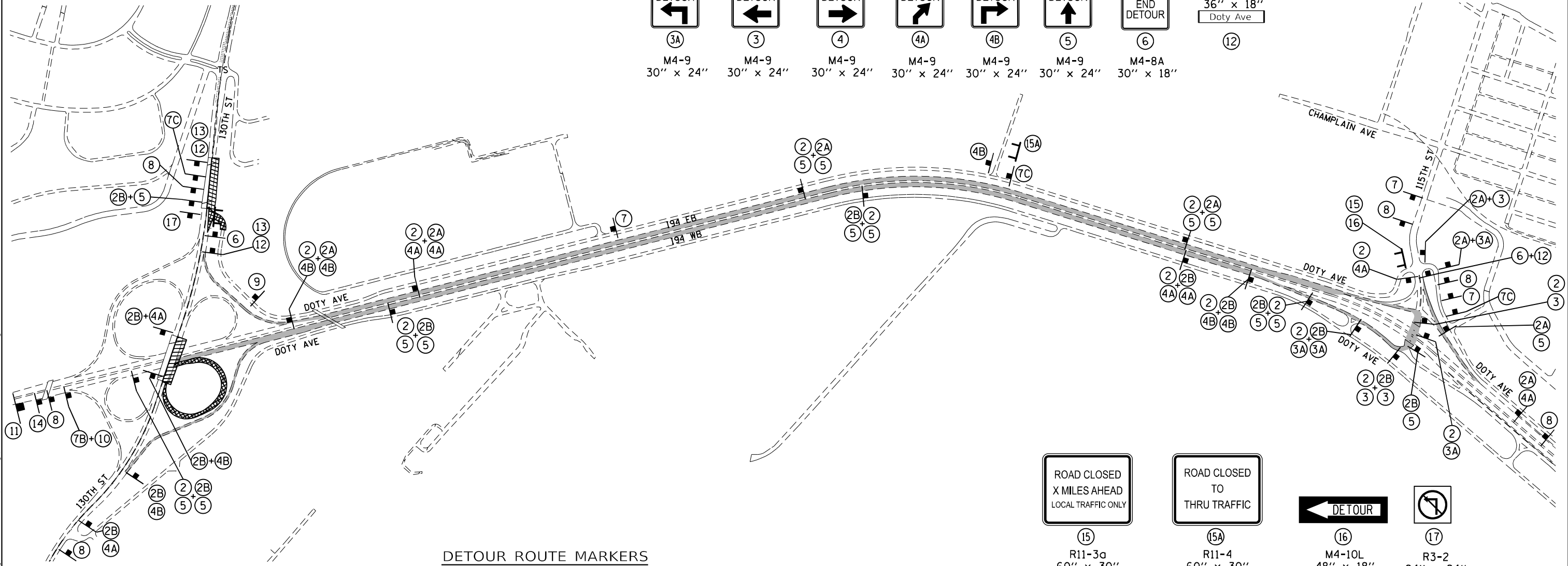
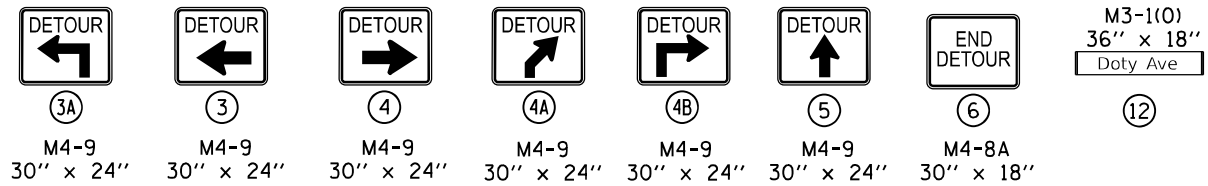
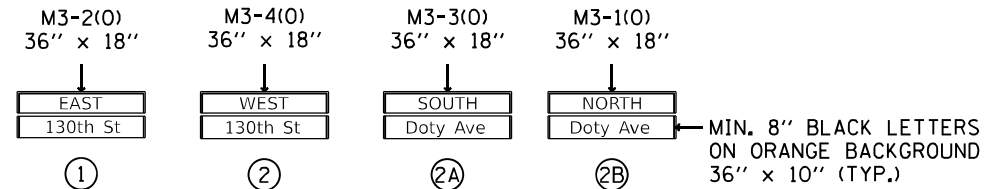
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	14
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				

WESTBOUND I-94 TO WESTBOUND  
130TH STREET DETOUR ROUTE  
(FULL RAMP CLOSURE)  
REFER TO 130TH ST MOT STAGE 1

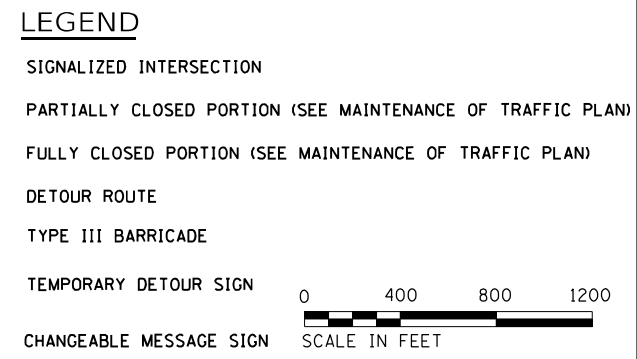
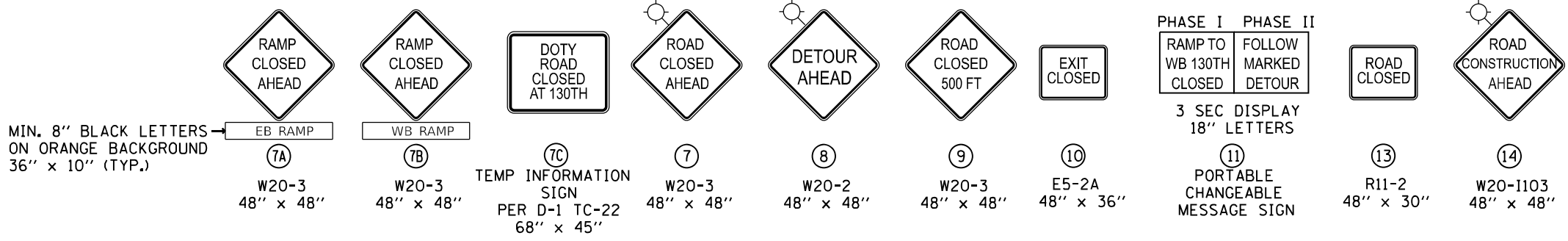
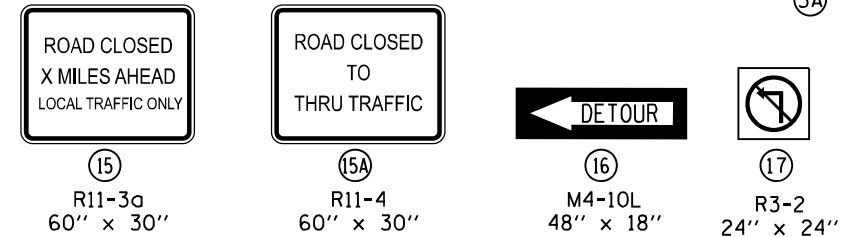
**DETOUR NOTES**

SEE MAINTENANCE OF TRAFFIC PLANS FOR TRAFFIC MODIFICATION DETAILS.  
DETOUR SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST FOR TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.  
THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.  
REFER TO DETAIL TC-08 FOR RAMP CLOSURE ADVANCE WARNING SIGN REQUIRED ON ALL EXIT GUIDE SIGNS  
DETOUR WILL REMAIN IN PLACE FOR DOTY AVE STAGE 1 AND STAGE 2

**DETOUR ROUTE MARKERS**



**DETOUR ROUTE MARKERS**

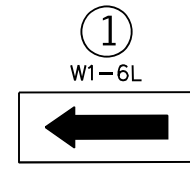


USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
CHECKED - AP	REVISED -	
DATE - 3/17/2021	REVISED -	

F.A.P. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 15
CONTRACT NO. ILLINOIS FED. AID PROJECT			62M41	

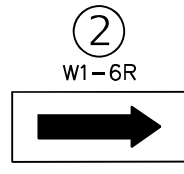




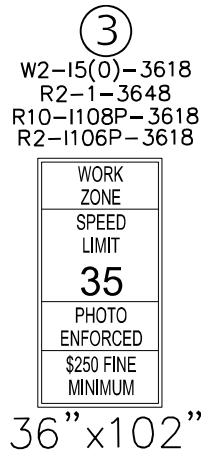


60"x30"

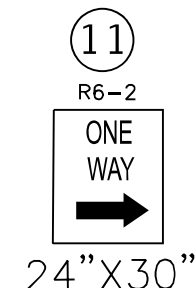
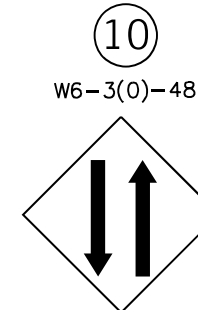
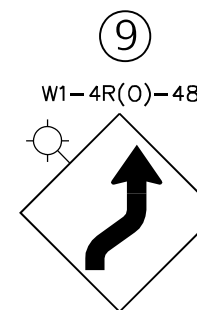
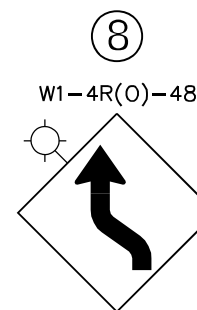
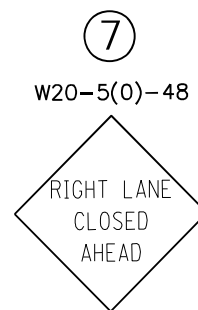
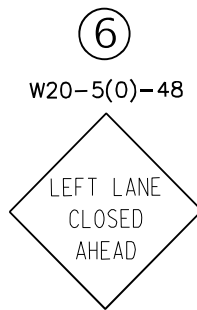
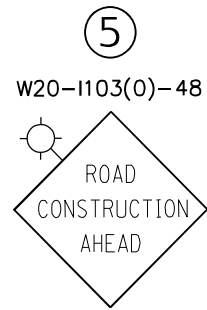
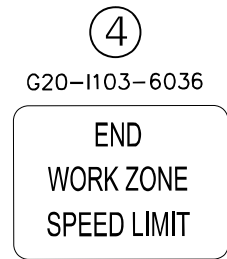
NOTE: SIGNS ① AND ② SHALL BE MOUNTED ABOVE TY III BARRICADES



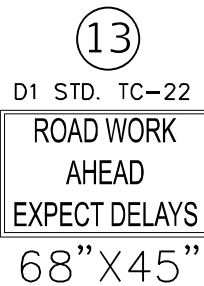
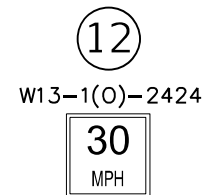
60"x30"



36"x102"



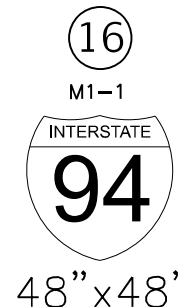
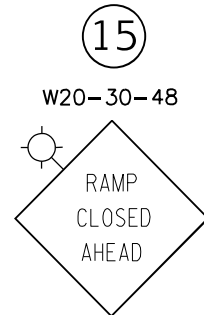
24"x30"



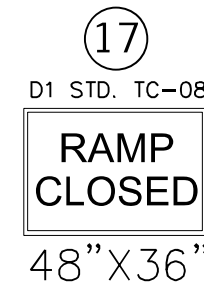
68"x45"



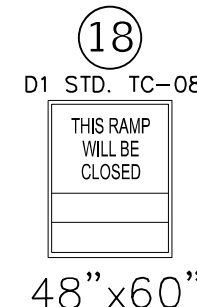
36"x10"



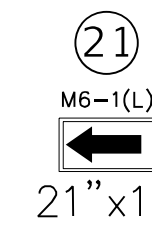
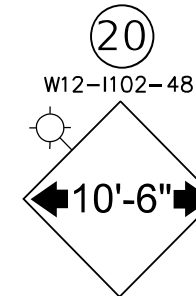
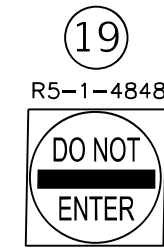
48"x48"



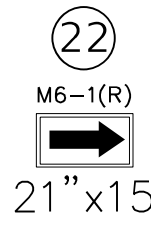
48"x36"



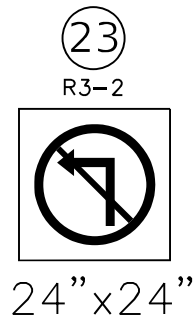
48"x60"



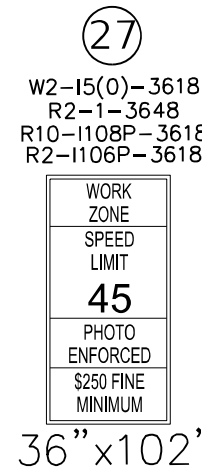
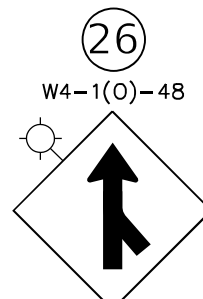
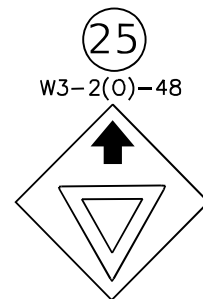
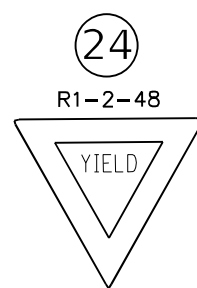
21"x15"



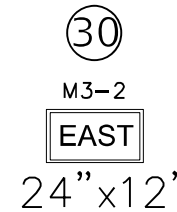
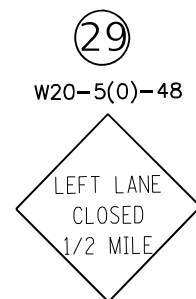
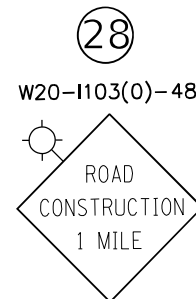
21"x15"



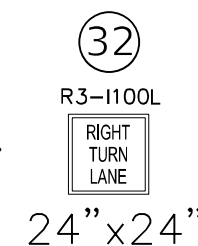
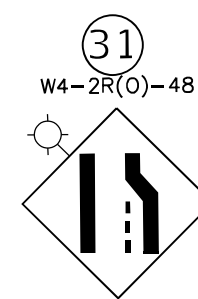
24"x24"



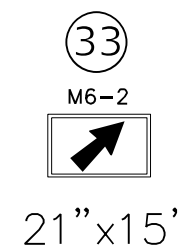
36"x102"



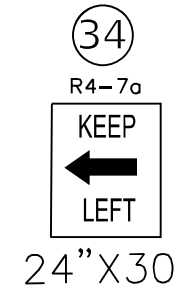
24"x12"



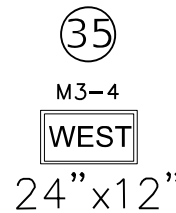
24"x24"



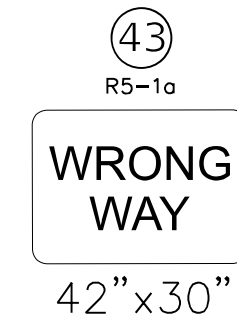
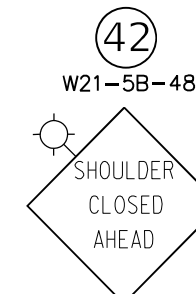
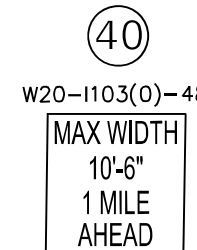
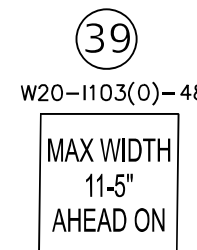
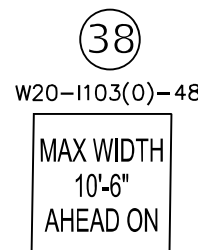
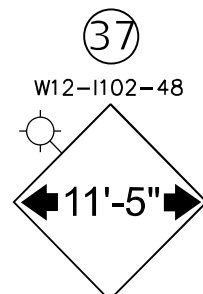
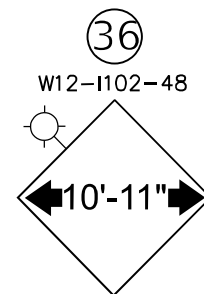
21"x15"



24"x30"



24"x12"



42"x30"

MODEL: D:\c\h\... FILE NAME: P:\C\0039... IDOT\040058\01\002 (ENG) - PTB 1954\16 Phase II Var Var\Engineering\WO 2 - 130th at 194-RR1500 Drawings\502\_CADD\_Sheets\162M41-1-2021\02\02.dgn



USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
PLOT SCALE = 2,0000' / in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

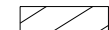

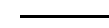
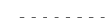





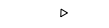

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

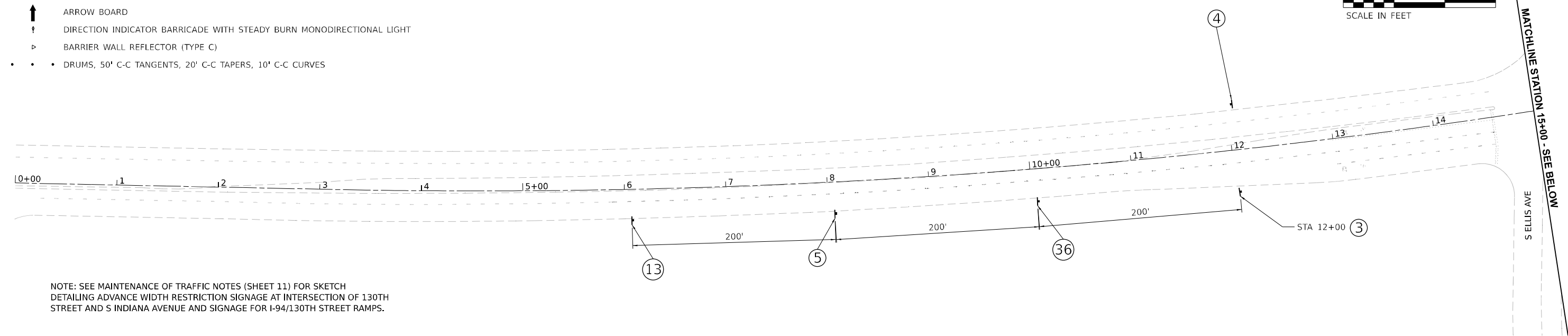
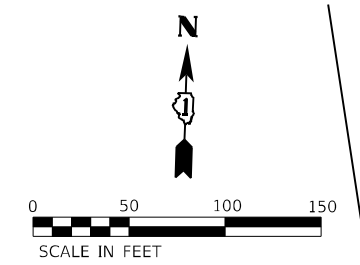
MAINTENANCE OF TRAFFIC SIGNS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

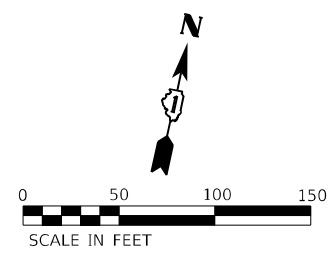
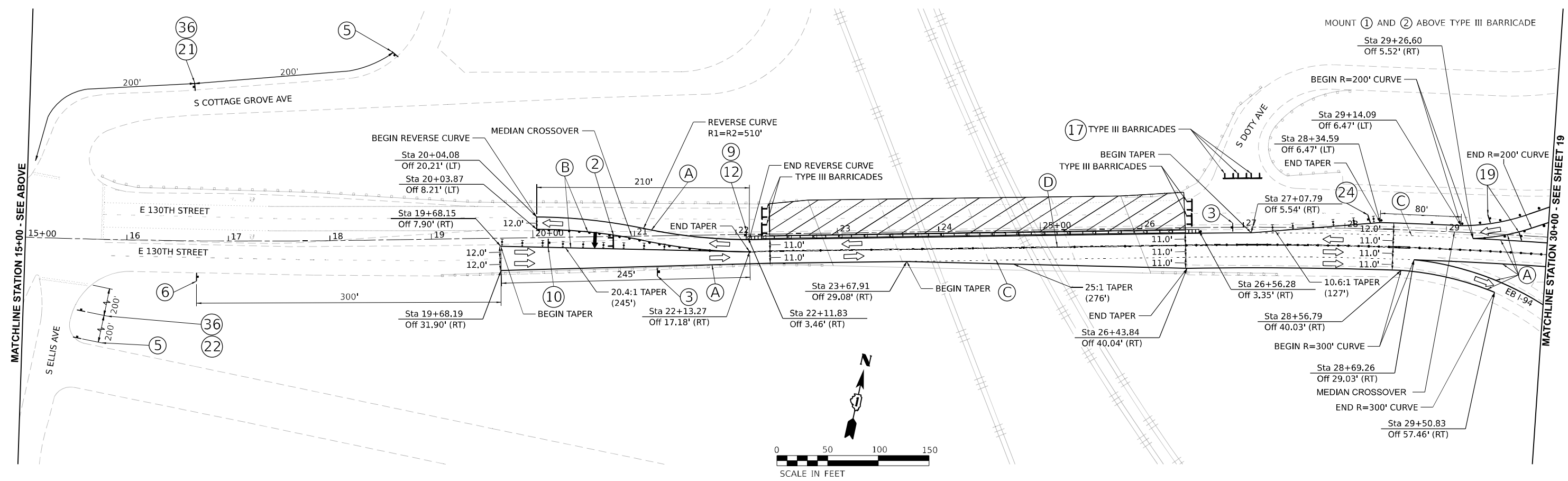
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	17
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				

**MOT LEGEND AND SYMBOLS**

-  WORK AREA
-  SOLID WHITE EDGE LINE, 4" (A)
-  SOLID YELLOW EDGE LINE, 4" (B)
-  SKIP DASH WHITE LINE, 8" (3' DASH, 9' SKIP) (C)
-  YELLOW DOUBLE CENTERLINE (D)
-  SKIP DASH WHITE LINE, 4" (10' DASH, 30' SKIP) (E)
-  TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3)
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  BARRIER WALL REFLECTOR (TYPE C)
-  DRUMS, 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C CURVES



NOTE: SEE MAINTENANCE OF TRAFFIC NOTES (SHEET 11) FOR SKETCH  
 DETAILING ADVANCE WIDTH RESTRICTION SIGNAGE AT INTERSECTION OF 130TH  
 STREET AND S INDIANA AVENUE AND SIGNAGE FOR I-94/130TH STREET RAMPS.



MODEL: 130th\_1 (Sheet) 3/17/2021  
 FILE NAME: P:\03055 - DOT\040058-01-002 (ENG) - P1B-195-016 Phase II For Engineering\102 - 130th at I-94\03055 Drawings\502\_CADD\_Sheet\15+00-MotStage1\_130th.dgn  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-474-0500  
 www.bowmanconsulting.com

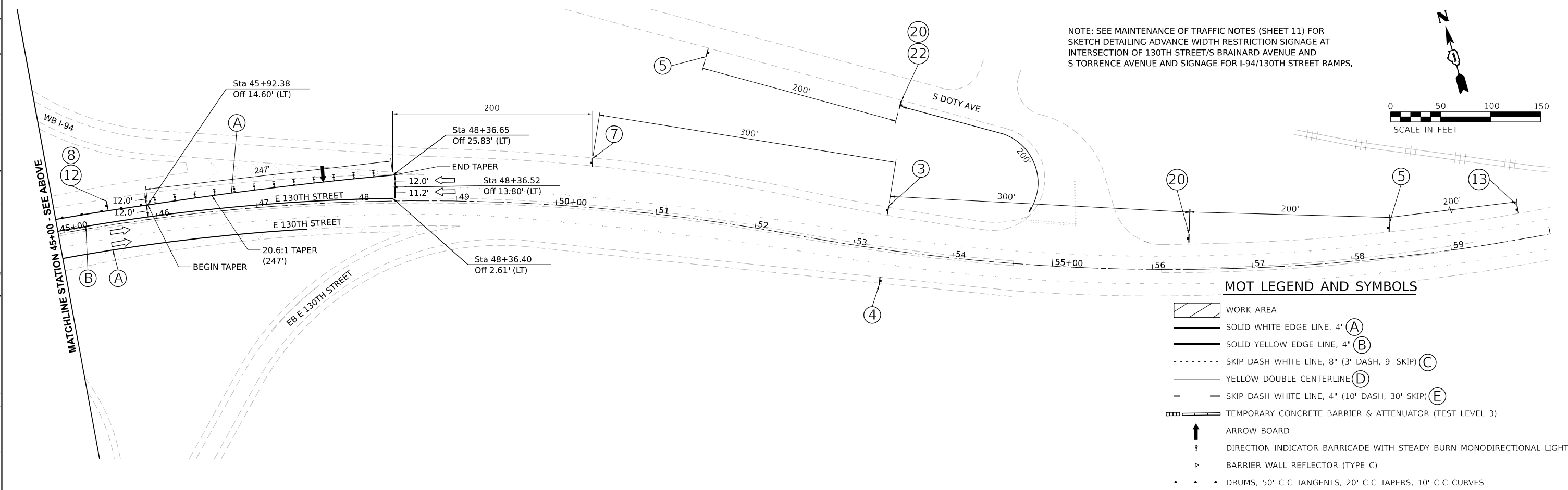
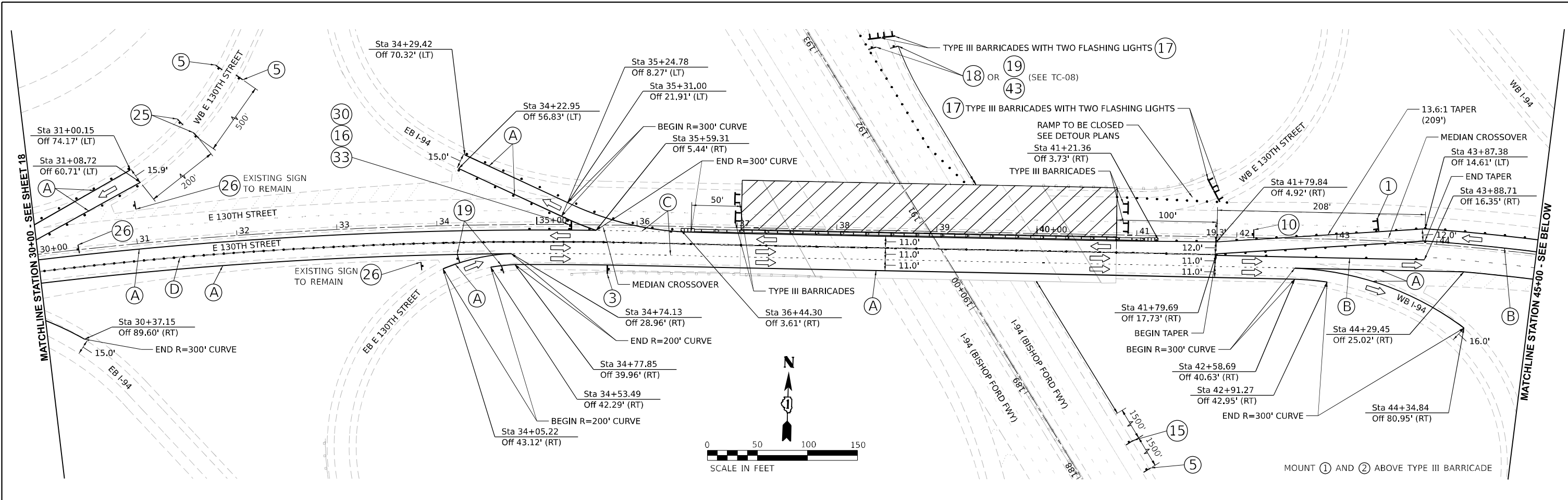


USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
PLOT SCALE = 0.166667"/in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC - STAGE 1</b>			
<b>130TH STREET</b>			
SCALE: 1"=50'	SHEET 1	OF 2 SHEETS	STA. 00+00 TO STA. 30+00

F.A.P. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 18
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	



**MOT LEGEND AND SYMBOLS**

- WORK AREA
- SOLID WHITE EDGE LINE, 4" (A)
- SOLID YELLOW EDGE LINE, 4" (B)
- SKIP DASH WHITE LINE, 8" (3' DASH, 9' SKIP) (C)
- YELLOW DOUBLE CENTERLINE (D)
- SKIP DASH WHITE LINE, 4" (10' DASH, 30' SKIP) (E)
- TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3)
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- BARRIER WALL REFLECTOR (TYPE C)
- DRUMS, 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C CURVES

**Bowman CONSULTING**  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-474-0360  
 www.bowmanconsulting.com

USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
CHECKED - AP	REVISED -	
DATE - 3/17/2021	REVISED -	












**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

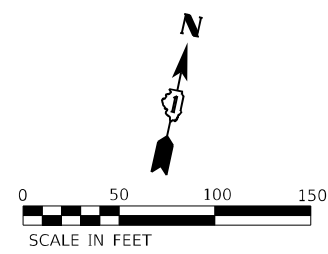
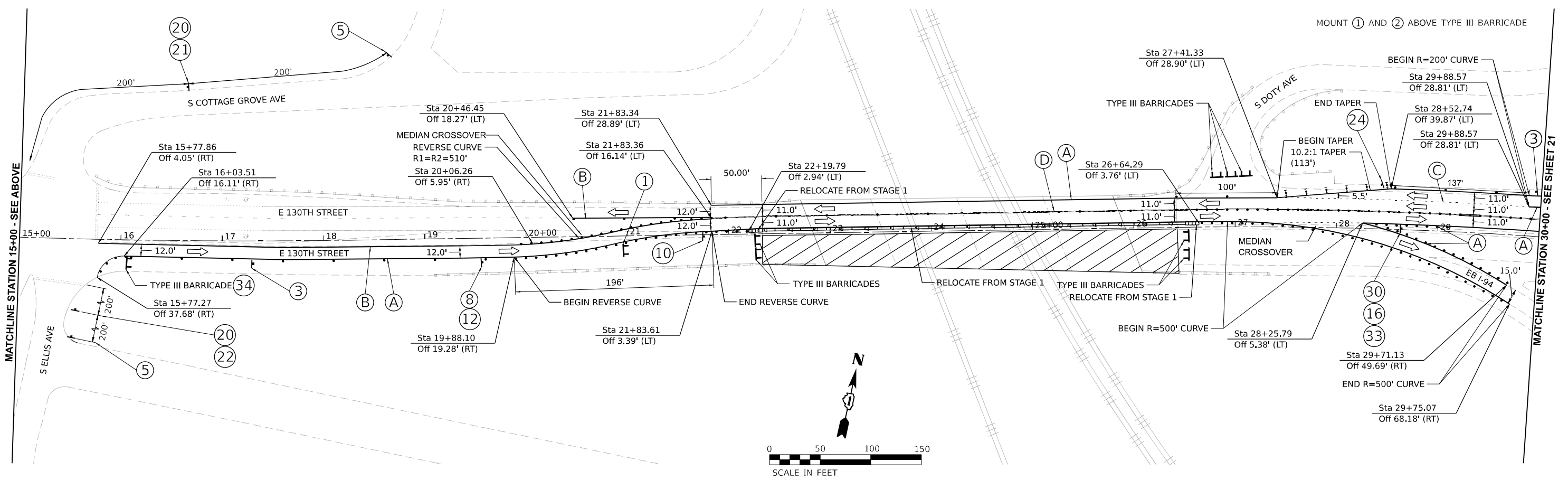
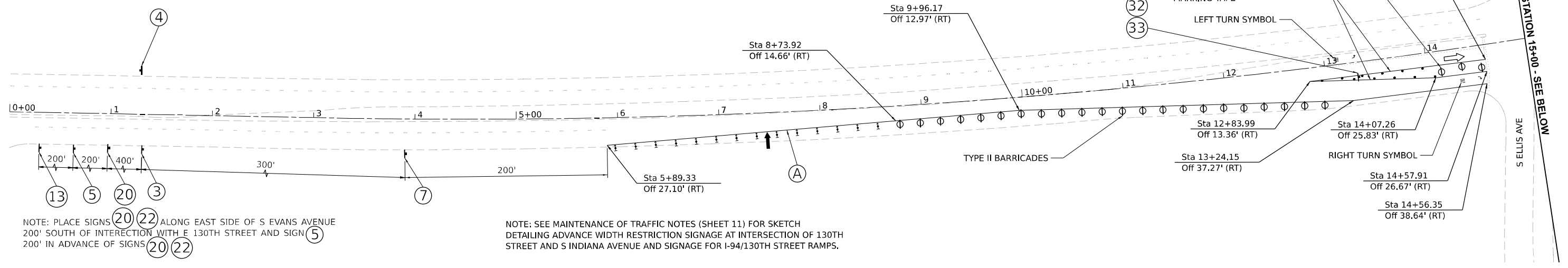
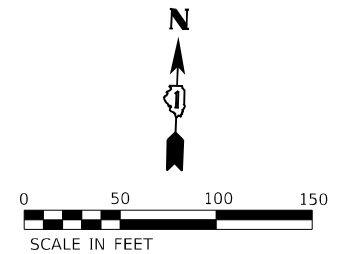
**MAINTENANCE OF TRAFFIC - STAGE 1  
 130TH STREET**

SCALE: 1"=50'    SHEET 2 OF 2 SHEETS    STA. 30+00 TO STA. 60+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	19
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	

**MOT LEGEND AND SYMBOLS**

-  WORK AREA
-  SOLID WHITE EDGE LINE, 4" (A)
-  SOLID YELLOW EDGE LINE, 4" (B)
-  SKIP DASH WHITE LINE, 8" (3' DASH, 9' SKIP) (C)
-  YELLOW DOUBLE CENTERLINE (D)
-  SKIP DASH WHITE LINE, 4" (10' DASH, 30' SKIP) (E)
-  TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3)
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  BARRIER WALL REFLECTOR (TYPE C)
-  DRUMS, 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C CURVES



MODEL: 130th\_1 (Sheet) FILE NAME: P:\03055 - DOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var\ofEngineering\102 - 130th.at\PL-RS\03055 Drawings\02\_CADD\_Sheet\130th\_MOT\130th.dgn  
 311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-474-0360 www.bowmanconsulting.com

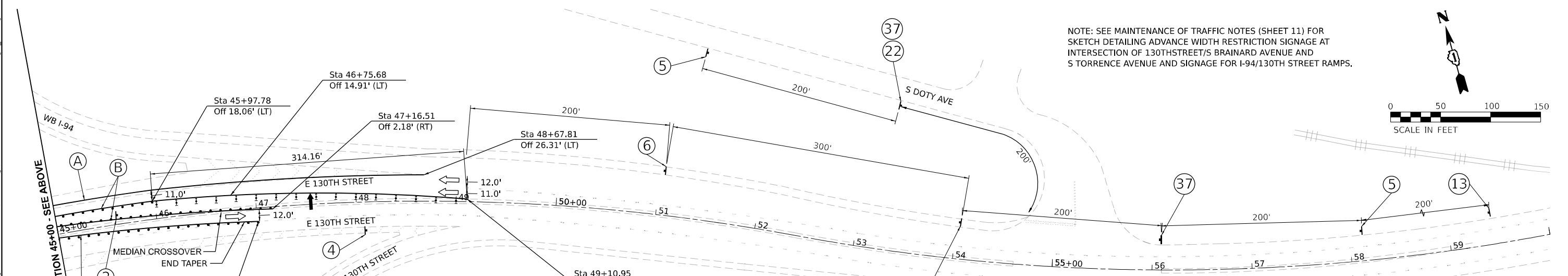
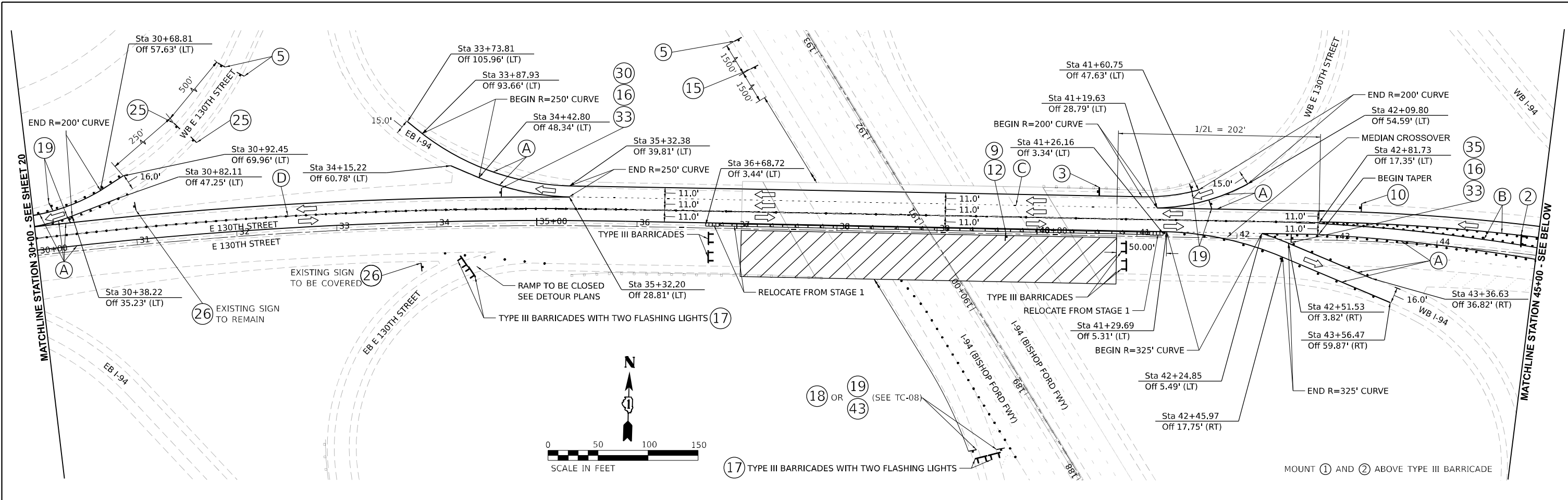


USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
PLOT SCALE = 0.16666633"/in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC - STAGE 2</b>			
<b>130TH STREET</b>			
SCALE: 1"=50'	SHEET 1	OF 2 SHEETS	STA. 00+00 TO STA. 30+00

F.A.P. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 20
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	



NOTE: SEE MAINTENANCE OF TRAFFIC NOTES (SHEET 11) FOR SKETCH DETAILING ADVANCE WIDTH RESTRICTION SIGNAGE AT INTERSECTION OF 130TH STREET/S BRAINARD AVENUE AND S TORRENCE AVENUE AND SIGNAGE FOR I-94/130TH STREET RAMPS.

**MOT LEGEND AND SYMBOLS**

- WORK AREA
- SOLID WHITE EDGE LINE, 4" (A)
- SOLID YELLOW EDGE LINE, 4" (B)
- SKIP DASH WHITE LINE, 8" (3' DASH, 9' SKIP) (C)
- YELLOW DOUBLE CENTERLINE (D)
- SKIP DASH WHITE LINE, 4" (10' DASH, 30' SKIP) (E)
- TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3)
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- BARRIER WALL REFLECTOR (TYPE C)
- DRUMS, 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C CURVES

MODEL: 130th\_2 (Sheet) FILE NAME: P:\GIS\DOT\040058-01-002 (ENG) - PTB 195-016 Phase II For VanEngineering\W02\_130th.dgn at P:\R\0300 Drawings\502\_CADD\_Sheet\040058-01-002\_Sheet\040058-01-002.dgn














USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
CHECKED - AP	REVISED -	
DATE - 3/17/2021	REVISED -	

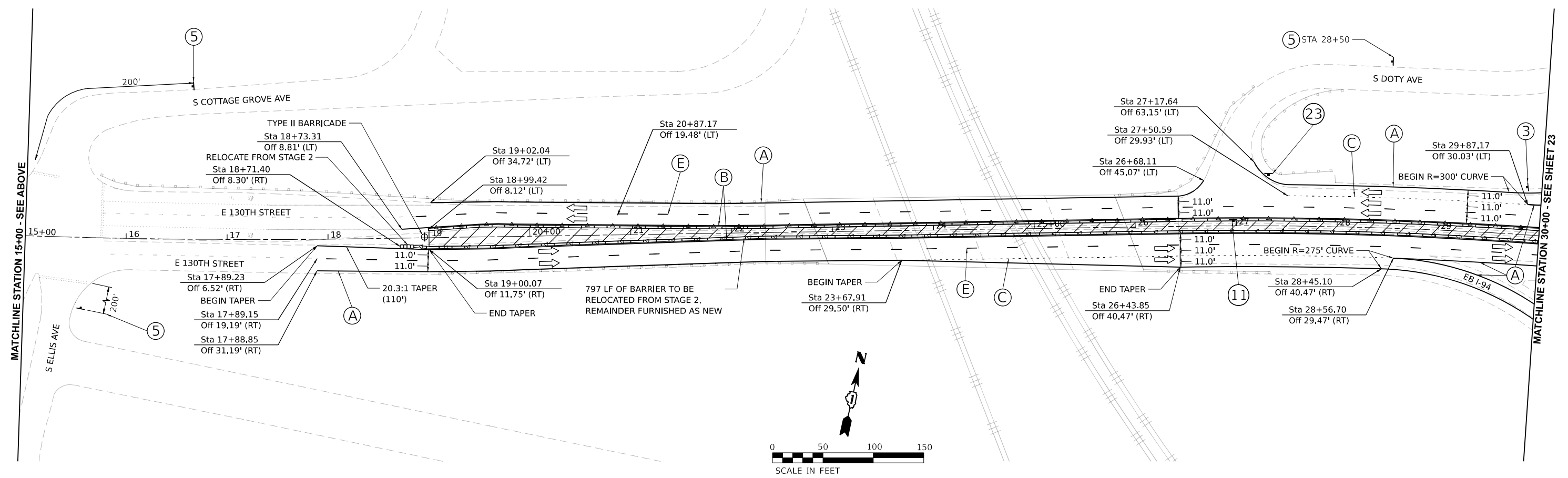
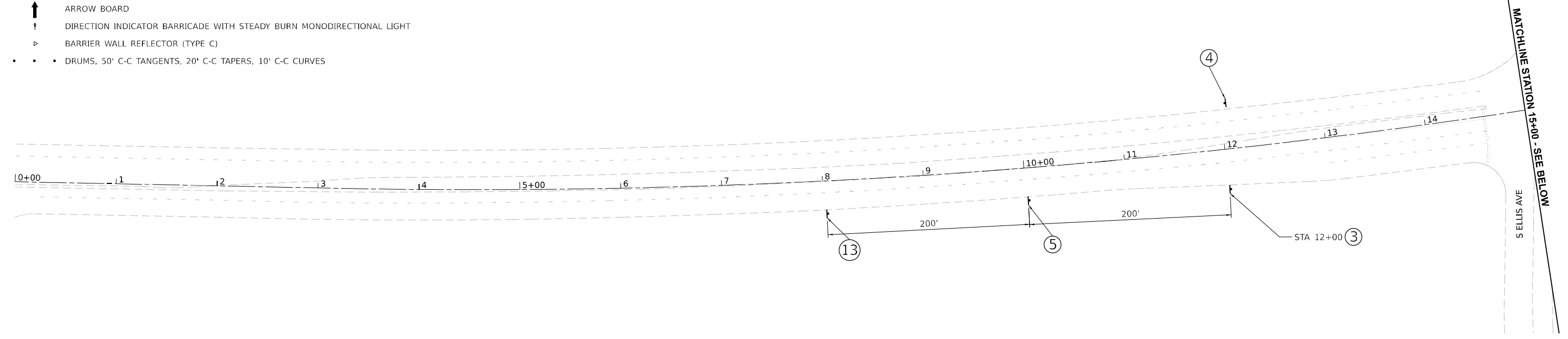
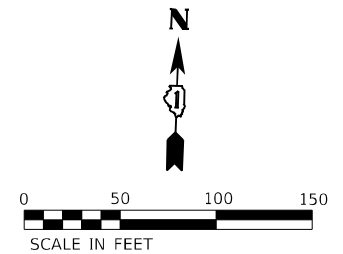
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC - STAGE 2</b>	
<b>130TH STREET</b>	
SCALE: 1"=50'	SHEET 2 OF 2 SHEETS
STA. 30+00	TO STA. 60+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	21
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	

**MOT LEGEND AND SYMBOLS**

-  WORK AREA
-  SOLID WHITE EDGE LINE, 4" (A)
-  SOLID YELLOW EDGE LINE, 4" (B)
-  SKIP DASH WHITE LINE, 8" (3' DASH, 9' SKIP) (C)
-  YELLOW DOUBLE CENTERLINE (D)
-  SKIP DASH WHITE LINE, 4" (10' DASH, 30' SKIP) (E)
-  TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3)
-  ARROW BOARD
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  BARRIER WALL REFLECTOR (TYPE C)
-  DRUMS, 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C CURVES



MODEL: 130th\_1 (Sheet) FILE NAME: P:\03055 - DOT\040058-01-002 (ENG) - P\B-195-016 Phase II Var\forEngineering\W02\_130th.at P\4-R\B\500 Drawings\502\_CADD\_Sheet\012M41-Sht-Mat\Stage3\_130th.dgn

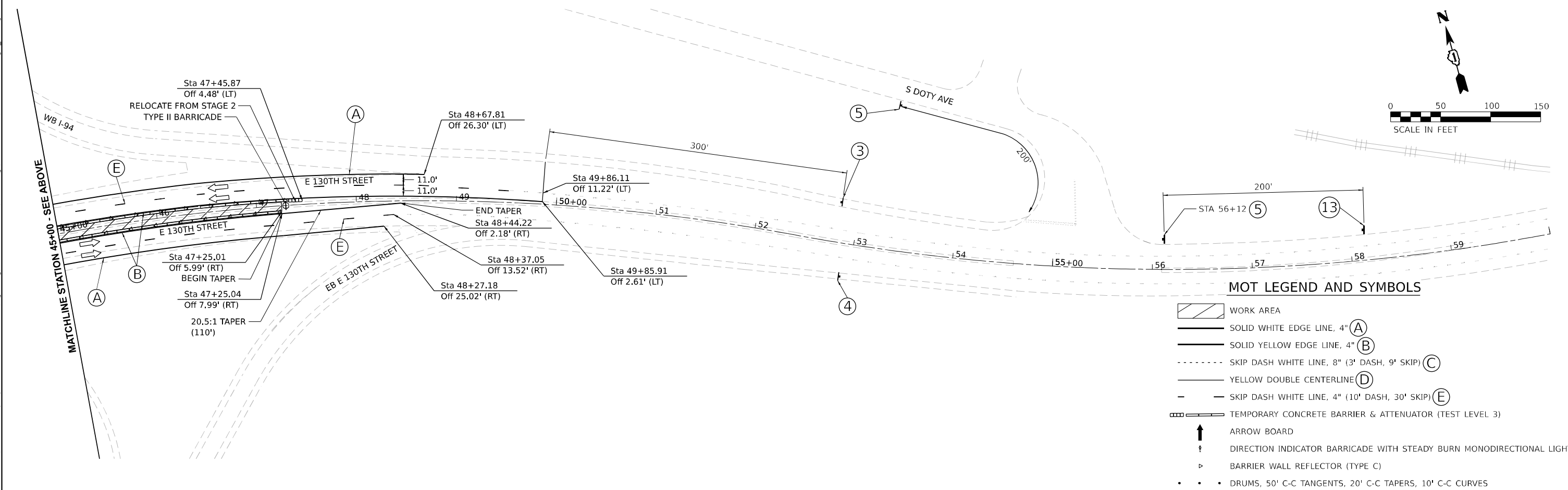
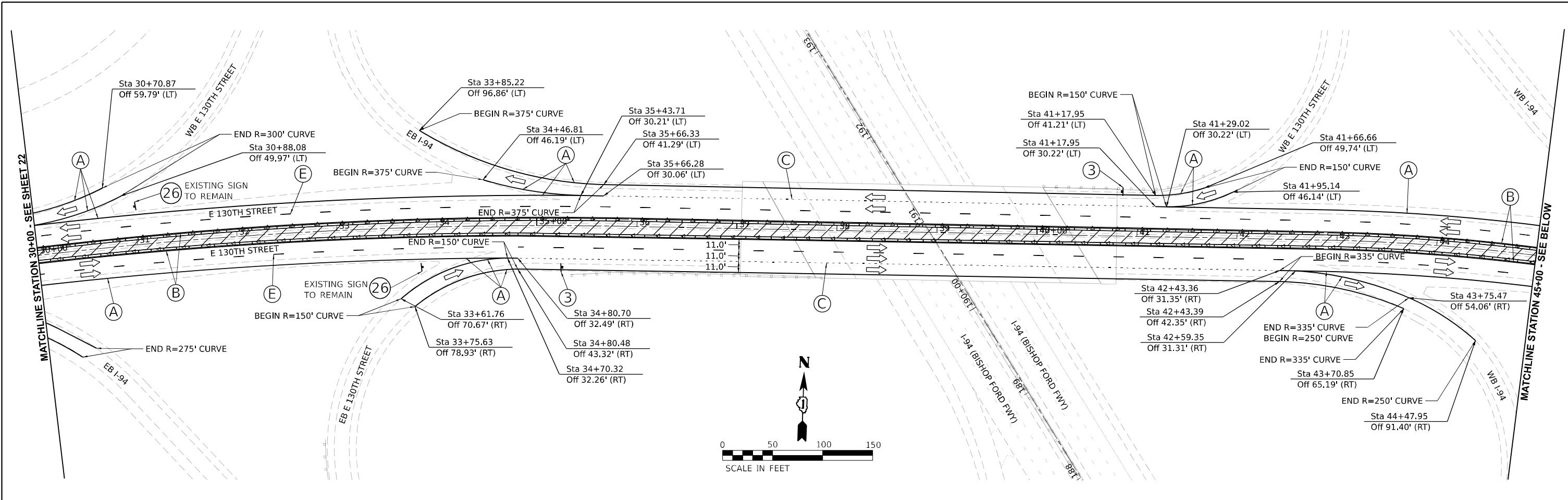
**Bowman CONSULTING**  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-414-0560  
 www.bowmanconsulting.com

USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISOR -	
PLOT SCALE = 0.16666633 1/ in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC - STAGE 3</b>			
<b>130TH STREET</b>			
SCALE: 1"=50'	SHEET 1	OF 2 SHEETS	STA. 00+00 TO STA. 30+00

F.A.P. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 22
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	



**MOT LEGEND AND SYMBOLS**

- WORK AREA
- SOLID WHITE EDGE LINE, 4" (A)
- SOLID YELLOW EDGE LINE, 4" (B)
- SKIP DASH WHITE LINE, 8" (3' DASH, 9' SKIP) (C)
- YELLOW DOUBLE CENTERLINE (D)
- SKIP DASH WHITE LINE, 4" (10' DASH, 30' SKIP) (E)
- TEMPORARY CONCRETE BARRIERS & ATTENUATORS (TEST LEVEL 3)
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- BARRIER WALL REFLECTOR (TYPE C)
- DRUMS, 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C CURVES

MODEL: 130th\_2 (Rev. 04/21) FILE NAME: P:\06055 - DOT\06055-01-002 (ENG) - PTB\_195-016 Phase II For VOT Engineering\102 - 130th - 194-RB-RB-500 Drawings\502\_CADD\_Sheet\06055-01-002-130th.dgn



USER NAME = kmaus	DESIGNED - KH	REVISED -
PLOT SCALE = 0.16666633 1/ in.	DRAWN - KM	REVISED -
PLOT DATE = 3/17/2021	CHECKED - AP	REVISED -
	DATE - 3/17/2021	REVISED -

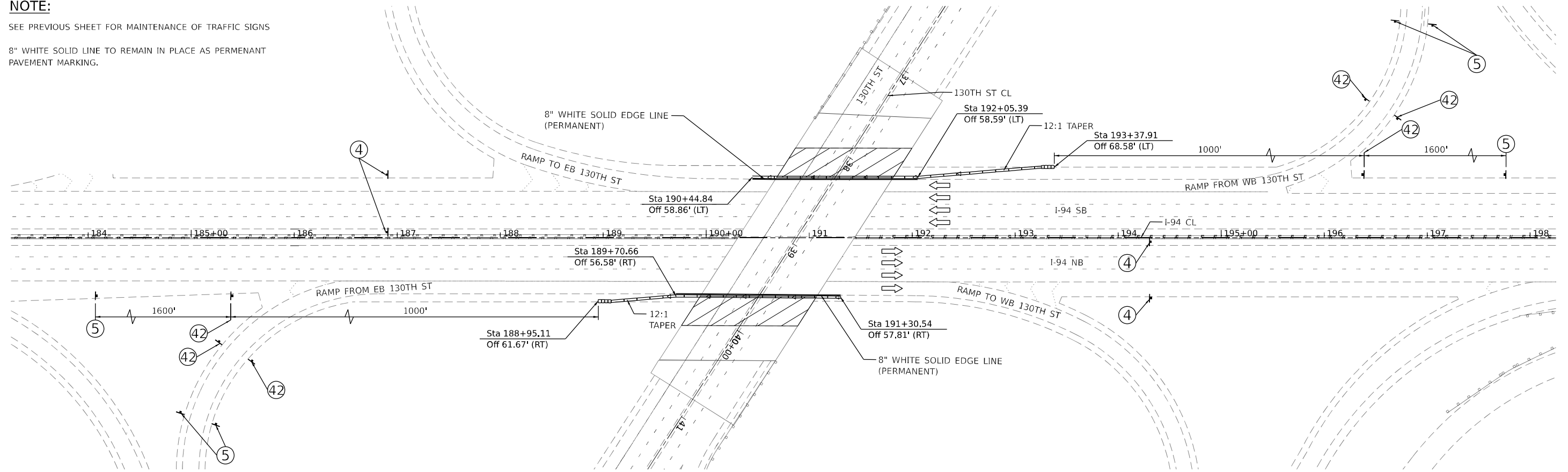
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC - STAGE 3</b>			
<b>130TH STREET</b>			
SCALE: 1"=50'	SHEET 2	OF 2 SHEETS	STA. 00+00 TO STA. 30+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	23
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	

**NOTE:**

- SEE PREVIOUS SHEET FOR MAINTENANCE OF TRAFFIC SIGNS
- 8" WHITE SOLID LINE TO REMAIN IN PLACE AS PERMANENT PAVEMENT MARKING.

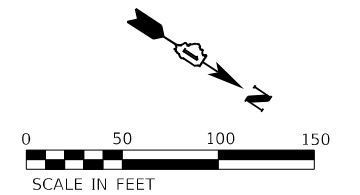


**MOT LEGEND AND SYMBOLS**

- WORK AREA
- SOLID WHITE EDGE LINE, 4" (A)
- SOLID YELLOW EDGE LINE, 4" (B)
- SKIP DASH WHITE LINE, 8" (3' DASH, 9' SKIP) (C)
- YELLOW DOUBLE CENTERLINE (D)
- SKIP DASH WHITE LINE, 4" (10' DASH, 30' SKIP) (E)
- TEMPORARY CONCRETE BARRIER & ATTENUATOR (TEST LEVEL 3)
- ARROW BOARD
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- BARRIER WALL REFLECTOR (TYPE C)
- • • DRUMS, 50' C-C TANGENTS, 20' C-C TAPERS, 10' C-C CURVES

REFER TO MOT GENERAL NOTES SHEET FOR MOT STAGE 2 DETAILS

ALL RAMPS TO REMAIN OPEN DURING I-94 SUBSTRUCTURE WORK.  
REFER TO MOT GENERAL NOTES AND DETAILS.



MODEL: MOT Stage 1 (Sheet) FILE NAME: P:\030358 - DOT\040058-01-002 (ENG) - PTB-195-016 Phase II Var\VarEngineering\W02 - 130th at 134-RRB\500 Drawings\502\_CADD\_Sheets\040058-01-002.dgn  
 311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 312-474-0300 www.bowmanconsulting.com



USER NAME = apatel	DESIGNED - KH	REVISED -
DRAWN - KM	REVISOR -	
PLOT SCALE = 0.16666633 1/ in.	CHECKED - AP	REVISOR -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

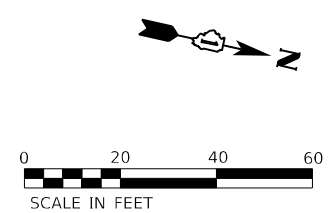
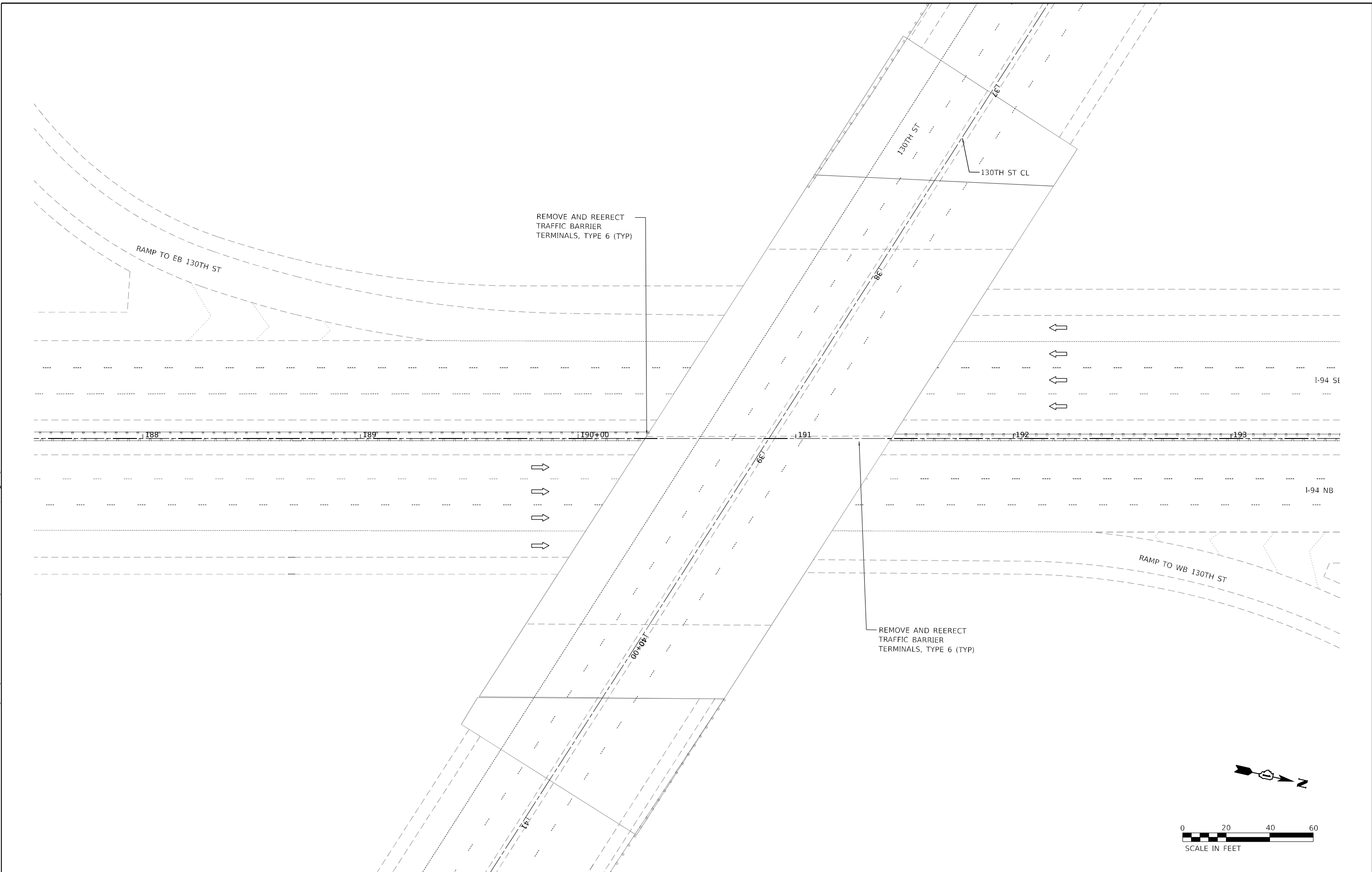
**MAINTENANCE OF TRAFFIC - STAGE 1  
I-94 (BISHOP FORD FREEWAY)**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 183+00 TO STA. 198+00

F.A.P. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 24
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	



MODEL: Plan 1 (Sheet)  
 FILE NAME: P:\020055 - IDOT\040055-01-2021 (ENG) - FTB-194-016 Phase II Var Var\Engineering\WC 2 - 130th at 194-RB\194-016-000 Drawings\502\_CADD\_Sheets\194M41-SH-Proposed\_R4.dgn







**Bowman CONSULTING**  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-450-0300  
 www.bowmanconsulting.com

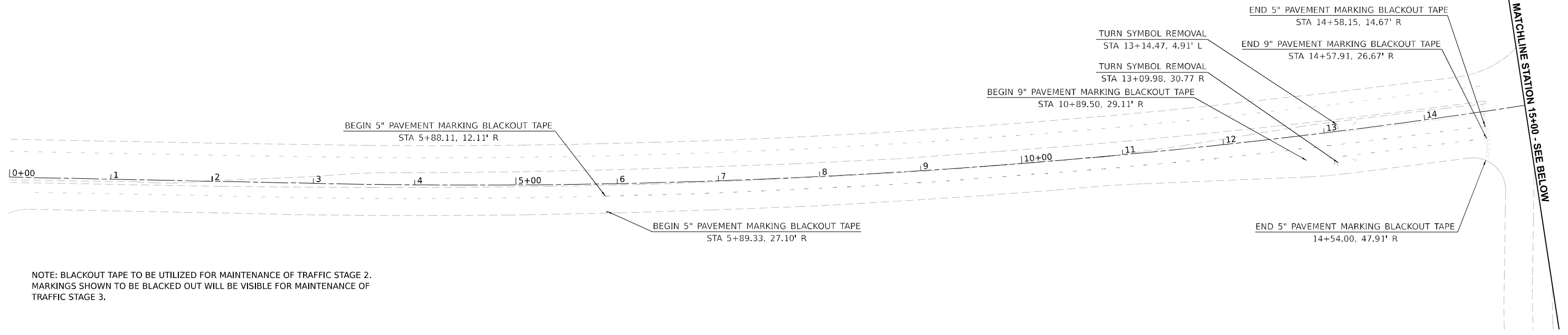
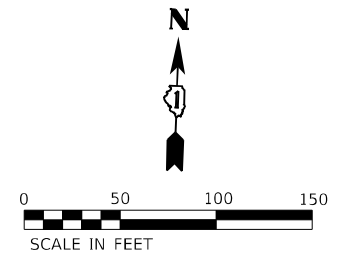
USER NAME = apatel	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
PLOT SCALE = 0.16666633 1/ in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

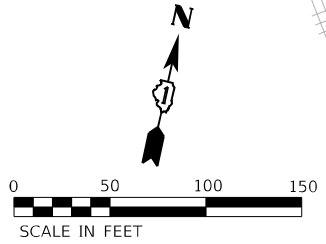
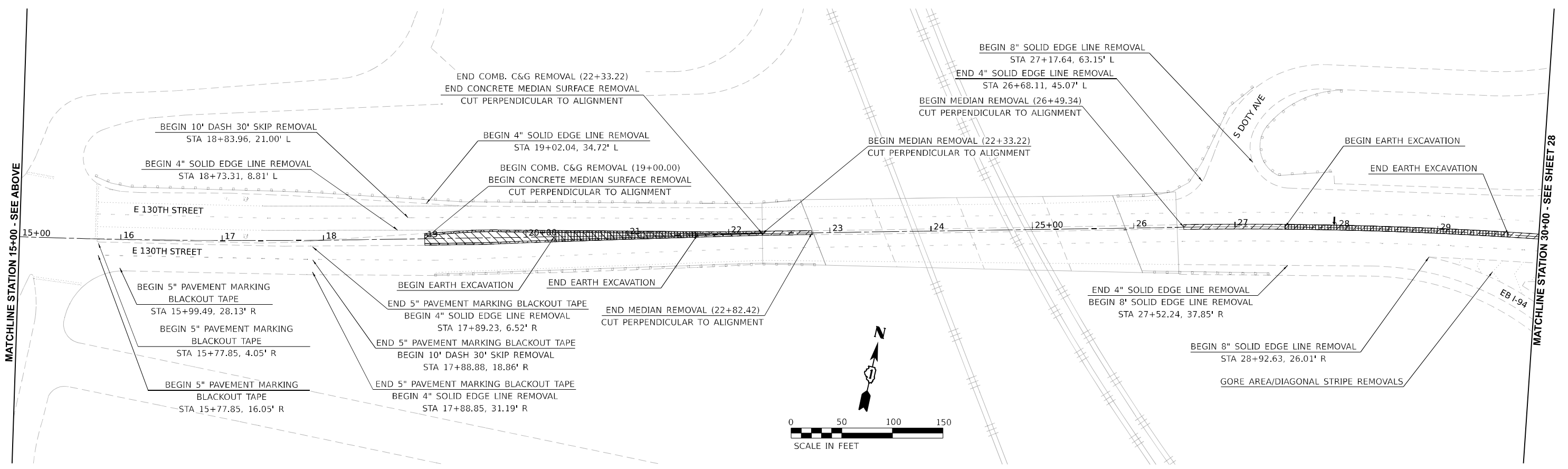
<b>PROPOSED MEDIAN PLAN - 194</b>				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 25
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	

- REMOVAL LEGEND**
-  COMBINATION CURB AND GUTTER REMOVAL
  -  CONCRETE MEDIAN SURFACE REMOVAL
  -  MEDIAN REMOVAL
  -  EARTH EXCAVATION



NOTE: BLACKOUT TAPE TO BE UTILIZED FOR MAINTENANCE OF TRAFFIC STAGE 2. MARKINGS SHOWN TO BE BLACKED OUT WILL BE VISIBLE FOR MAINTENANCE OF TRAFFIC STAGE 3.



MODEL: 13046-1 (Sheet) FILE NAME: P:\040058 - DOT\040058-01-002 (ENG) - PTB 195-016 Phase II For VotEngineering\102 - 130th at P4+R4\500 Drawings\502\_CADD\_Sheet\102M41-Left-Removals\_130th.dgn



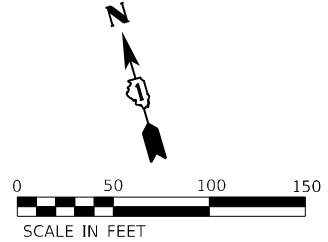
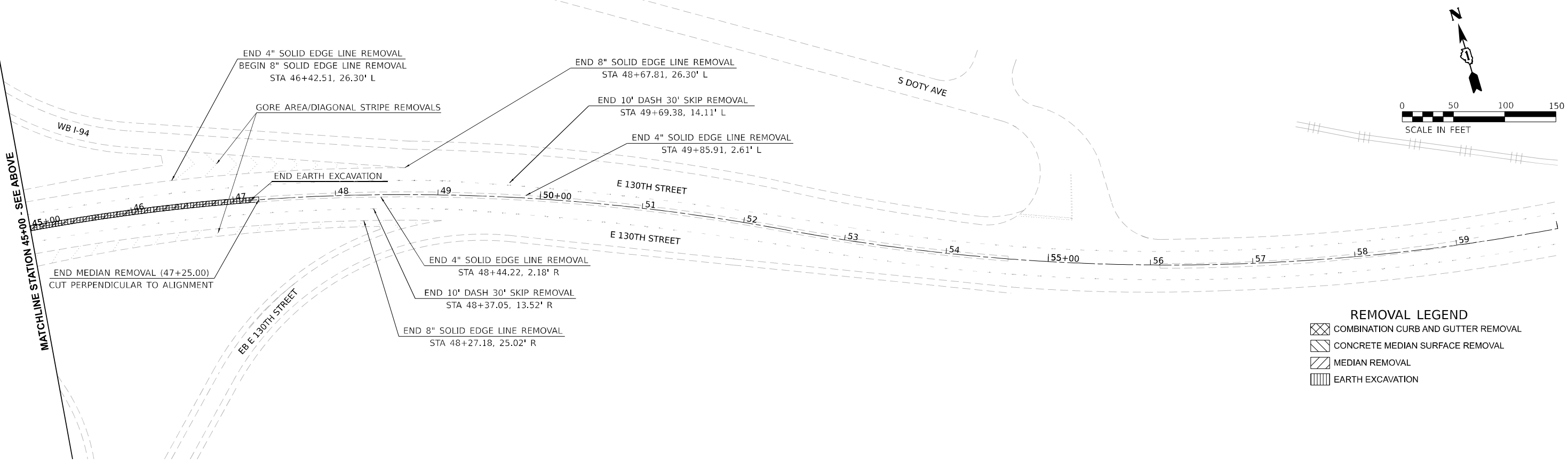
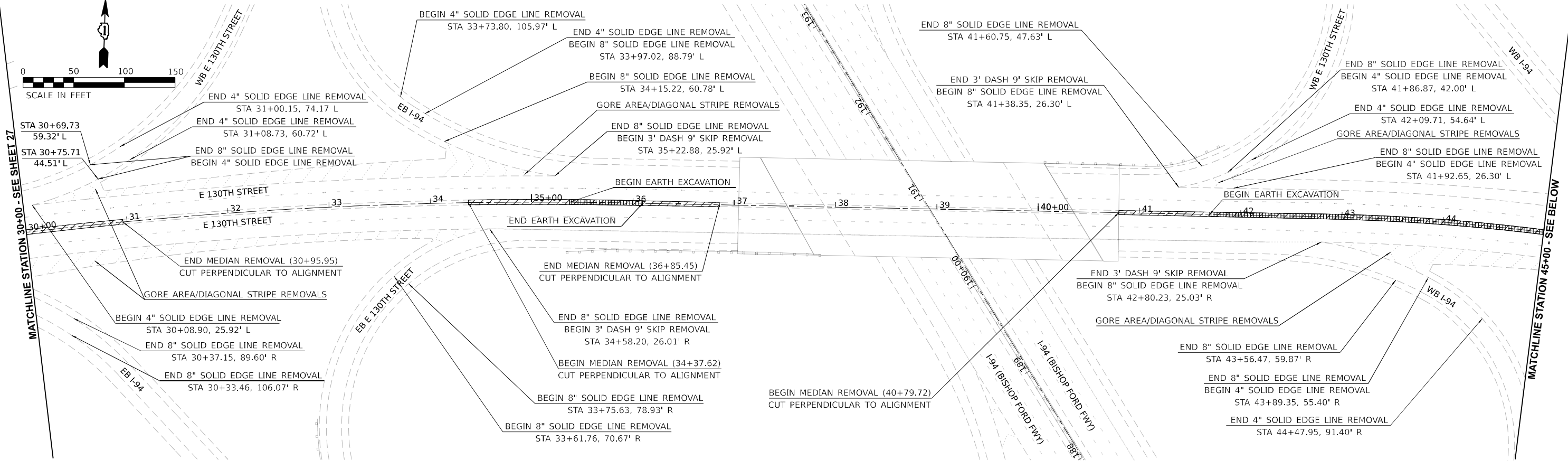
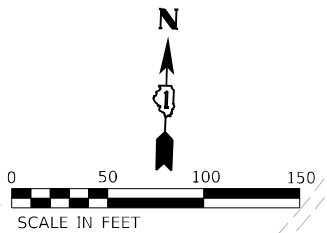
USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
PLOT SCALE = 0.16666667"/in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 00+00 TO STA. 30+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	26
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				



**REMOVAL LEGEND**

- COMBINATION CURB AND GUTTER REMOVAL
- CONCRETE MEDIAN SURFACE REMOVAL
- MEDIAN REMOVAL
- EARTH EXCAVATION

MODEL: 130th\_2 (Sheet) FILE NAME: P:\03055 - DOT\040058-01-002 (ENG) - PTB 195-016 Phase II For VOT Engineering\W02\_130th at I-94\RB\500 Drawings\502\_CADD\_Sheet\040058-01-002-Removals\_130th.dgn

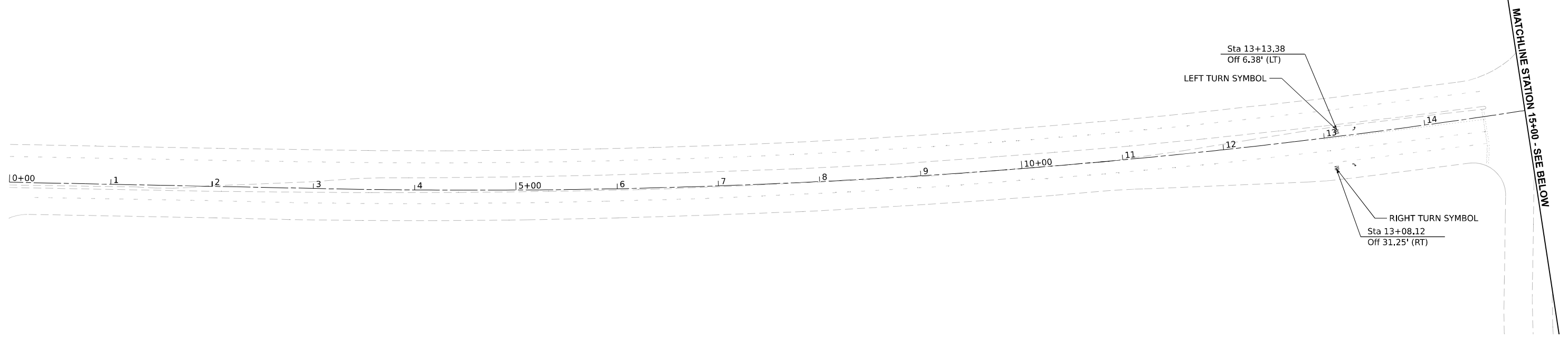
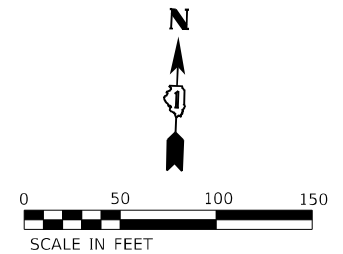


USER NAME = khejtmanek	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
PLOT SCALE = 0.16666667"/in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL PLAN</b>			
SCALE: 1"=50'	SHEET 2	OF 2 SHEETS	STA. 30+00 TO STA. 60+00

F.A.P. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 27
CONTRACT NO. ILLINOIS FED. AID PROJECT			62M41	

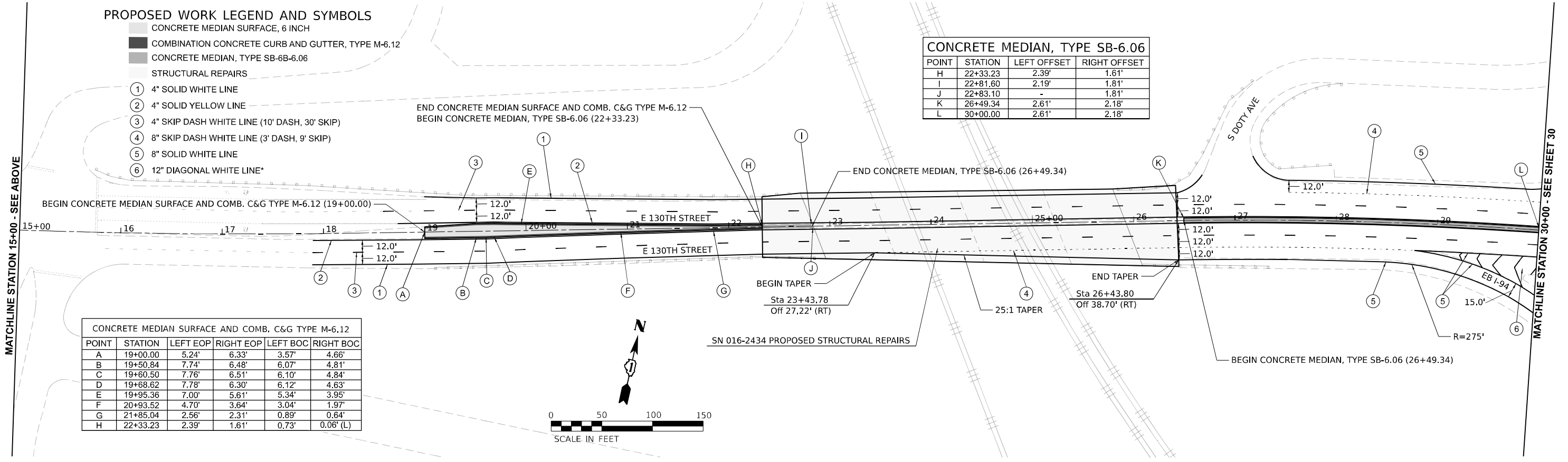


**PROPOSED WORK LEGEND AND SYMBOLS**

- CONCRETE MEDIAN SURFACE, 6 INCH
- COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12
- CONCRETE MEDIAN, TYPE SB-6B-6.06
- STRUCTURAL REPAIRS
- ① 4" SOLID WHITE LINE
- ② 4" SOLID YELLOW LINE
- ③ 4" SKIP DASH WHITE LINE (10' DASH, 30' SKIP)
- ④ 8" SKIP DASH WHITE LINE (3' DASH, 9' SKIP)
- ⑤ 8" SOLID WHITE LINE
- ⑥ 12" DIAGONAL WHITE LINE\*

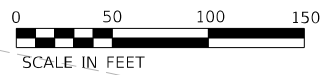
**CONCRETE MEDIAN, TYPE SB-6.06**

POINT	STATION	LEFT OFFSET	RIGHT OFFSET
H	22+33.23	2.39'	1.61'
I	22+81.60	2.19'	1.81'
J	22+83.10	-	1.81'
K	26+49.34	2.61'	2.18'
L	30+00.00	2.61'	2.18'



**CONCRETE MEDIAN SURFACE AND COMB. C&G TYPE M-6.12**

POINT	STATION	LEFT EOP	RIGHT EOP	LEFT BOC	RIGHT BOC
A	19+00.00	5.24'	6.33'	3.57'	4.66'
B	19+50.84	7.74'	6.48'	6.07'	4.81'
C	19+60.50	7.76'	6.51'	6.10'	4.84'
D	19+68.62	7.78'	6.30'	6.12'	4.63'
E	19+95.36	7.00'	5.61'	5.34'	3.95'
F	20+93.52	4.70'	3.64'	3.04'	1.97'
G	21+85.04	2.56'	2.31'	0.89'	0.64'
H	22+33.23	2.39'	1.61'	0.73'	0.08' (L)

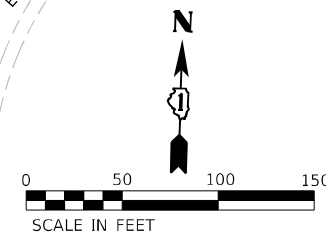
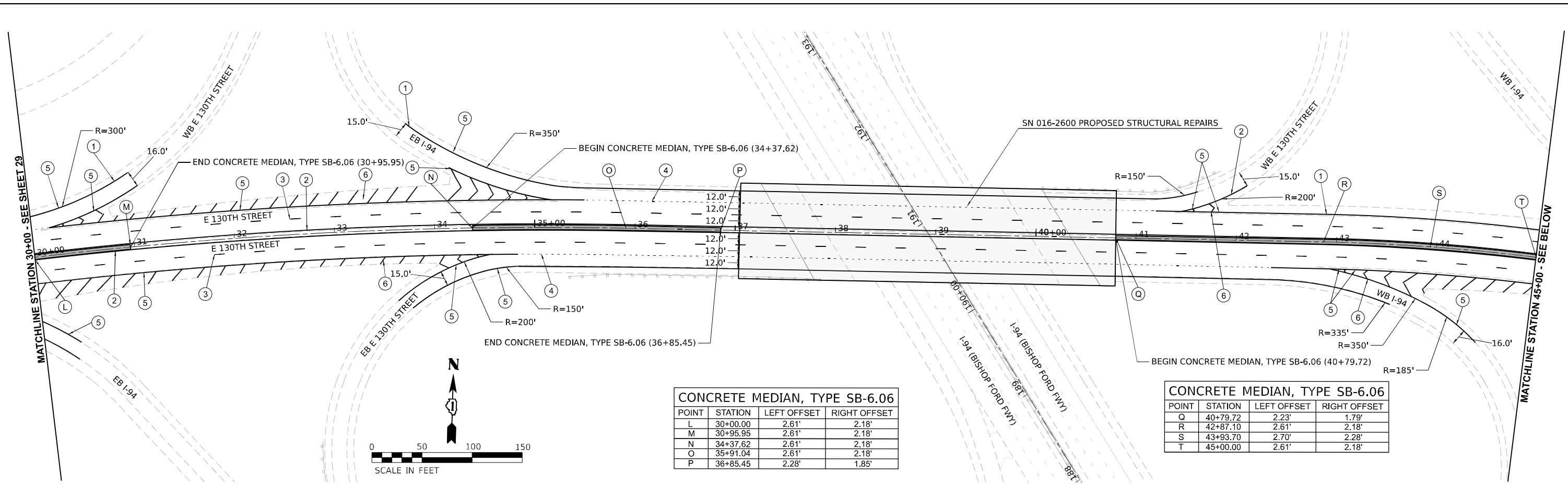


USER NAME = kmaus	DESIGNED - KH	REVISED -
DRAWN - KM	REVISOR -	
PLOT SCALE = 0.16666667"/in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

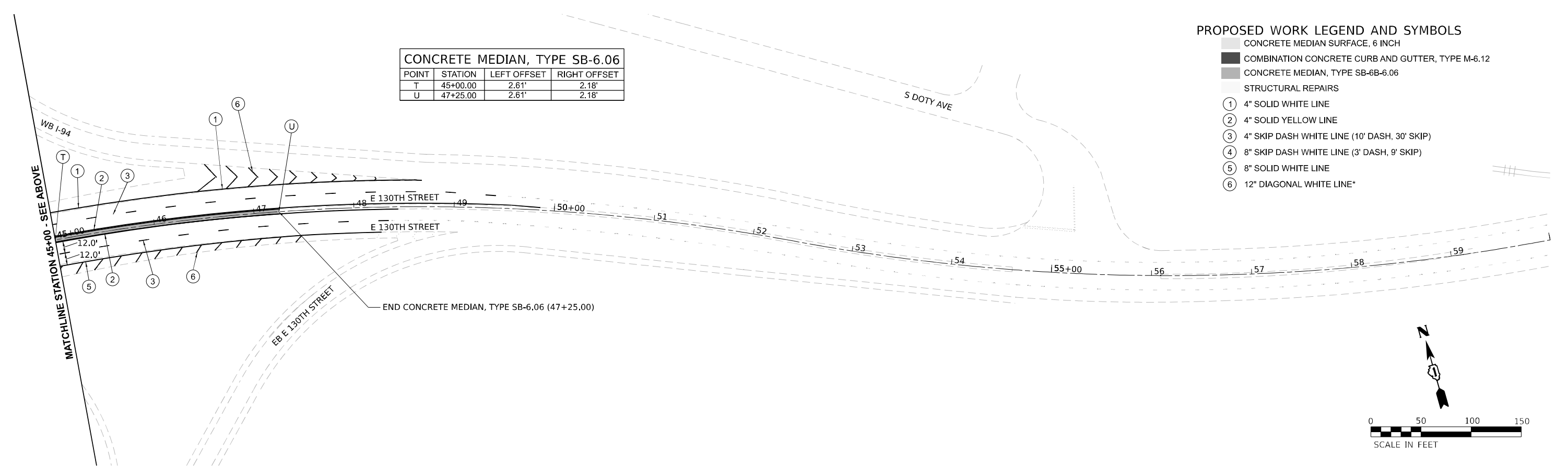
<b>PROPOSED MEDIAN AND PAVEMENT MARKING PLAN</b>	
SCALE: 1"=50'	SHEET 1 OF 2 SHEETS STA. 00+00 TO STA. 30+00

F.A.P. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 28
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	



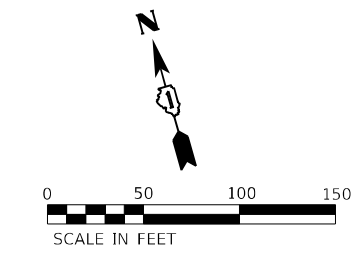
CONCRETE MEDIAN, TYPE SB-6.06			
POINT	STATION	LEFT OFFSET	RIGHT OFFSET
L	30+00.00	2.61'	2.18'
M	30+95.95	2.61'	2.18'
N	34+37.62	2.61'	2.18'
O	35+91.04	2.61'	2.18'
P	36+85.45	2.28'	1.85'

CONCRETE MEDIAN, TYPE SB-6.06			
POINT	STATION	LEFT OFFSET	RIGHT OFFSET
Q	40+79.72	2.23'	1.79'
R	42+87.10	2.61'	2.18'
S	43+93.70	2.70'	2.28'
T	45+00.00	2.61'	2.18'



CONCRETE MEDIAN, TYPE SB-6.06			
POINT	STATION	LEFT OFFSET	RIGHT OFFSET
T	45+00.00	2.61'	2.18'
U	47+25.00	2.61'	2.18'

- PROPOSED WORK LEGEND AND SYMBOLS**
- CONCRETE MEDIAN SURFACE, 6 INCH
  - COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12
  - CONCRETE MEDIAN, TYPE SB-6B-6.06
  - STRUCTURAL REPAIRS
  - ① 4" SOLID WHITE LINE
  - ② 4" SOLID YELLOW LINE
  - ③ 4" SKIP DASH WHITE LINE (10' DASH, 30' SKIP)
  - ④ 8" SKIP DASH WHITE LINE (3' DASH, 9' SKIP)
  - ⑤ 8" SOLID WHITE LINE
  - ⑥ 12" DIAGONAL WHITE LINE\*



MODEL: 130th\_2 (130th.dwg) USER: kjejtmanek DATE: 3/17/2021 TIME: 10:00:00 AM  
 FILE NAME: P:\03055 - DOT\040058-01-002 (ENG) - PTB 195-016 Phase II For VotEngineering\W02\_2\_130th.dwg  
 PROJECT: 0344 - 2020-261-BR - COOK COUNTY - ILLINOIS - FED. AID PROJECT

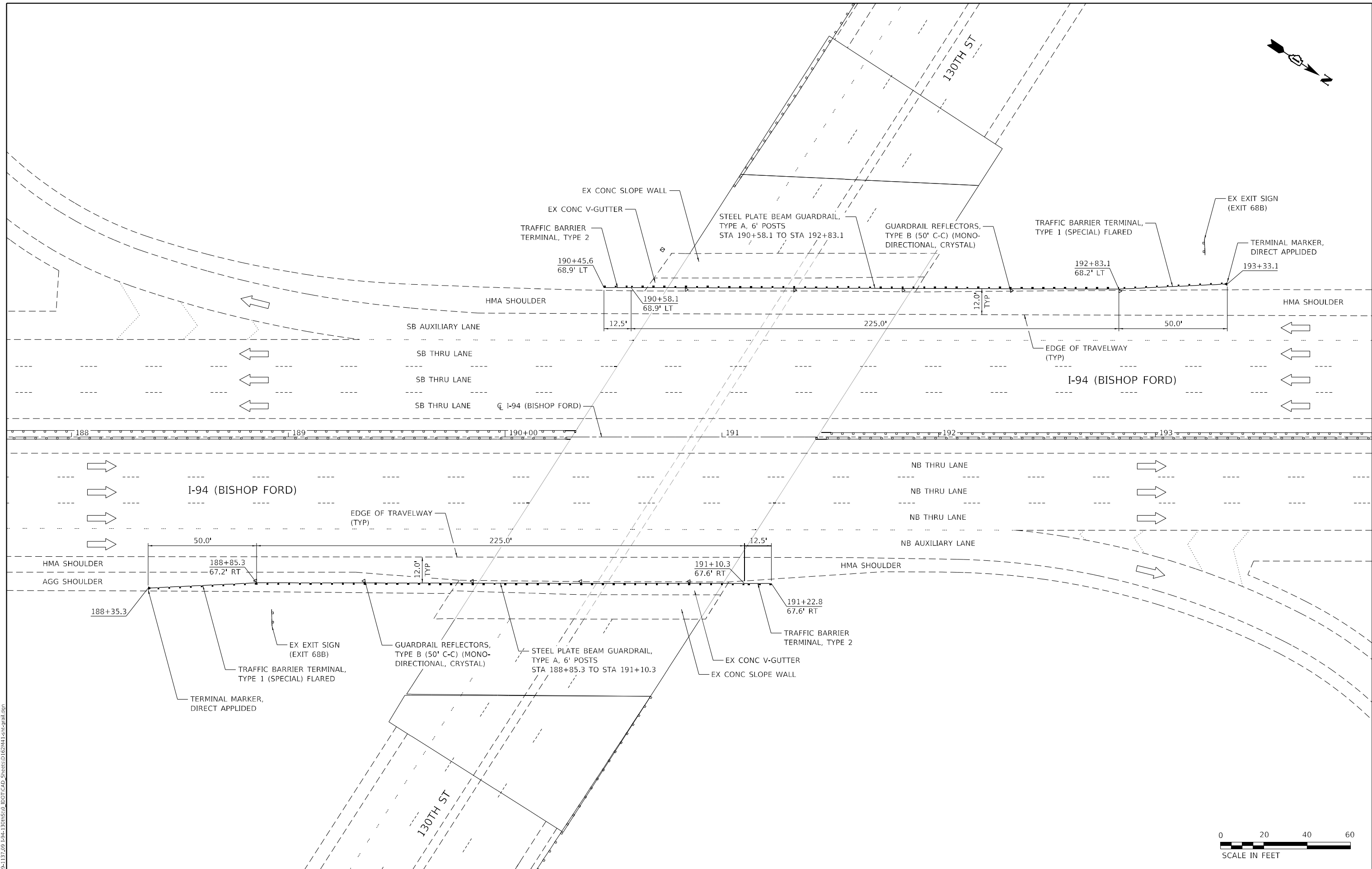
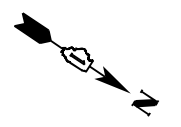


USER NAME = kjejtmanek	DESIGNED - KH	REVISED -
PLOT SCALE = 0.16666667"/in.	DRAWN - KM	REVISED -
PLOT DATE = 3/17/2021	CHECKED - AP	REVISED -
	DATE - 3/17/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED MEDIAN AND PAVEMENT MARKING PLAN</b>	
SCALE: 1"=50'	SHEET 2 OF 2 SHEETS
STA. 30+00	TO STA. 60+00

F.A.P. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 29
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	



MODEL: D:\64\11...  
 FILE: 11\11...  
 477 South Third Street  
 Suite 200  
 Geneva, Illinois 60134  
 630.332.1317 phone  
 www.kaskaskia.com  
 11/11/2021 11:11:11 AM  
 Kaskaskia Engineering Group, LLC  
 Illinois Professional Engineering Firm  
 04/00000000 01-308530

**Kaskaskia**  
Engineering Group, LLC

USER NAME	ndp	DESIGNED	VPR	REVISED	-
DRAWN	NDP	CHECKED	BCD	REVISED	-
PLOT SCALE	40,0000 * / in.	DATE	3/9/21	REVISED	-
PLOT DATE	3/12/2021				

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

**PROPOSED GUARDRAIL PLAN - I-94**  
 SCALE: 1"=20'    SHEET 1 OF 1 SHEETS    STA. 188+35.3 TO STA. 193+33.1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	30
CONTRACT NO. 62M41				
ILLINOIS FED. AID PROJECT				

INTENTIONALLY LEFT BLANK

MODEL: 640DFLNAME\$  
FILE NAME: SELEIS

**Bowman**  
CONSULTING  
311 S. Wacker Drive, Suite 1950  
Chicago, Illinois 60606  
312-455-0360  
www.bowmancons.com

USER NAME =	DESIGNED -	REVISED - _____
	DRAWN -	REVISED - _____
PLOT SCALE =	CHECKED -	REVISED - _____
PLOT DATE =	DATE -	REVISED - _____











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

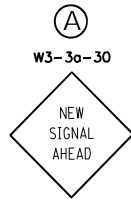
**TEMPORARY TRAFFIC SIGNAL**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	31
CONTRACT NO. 62M41				
ILLINOIS FED. AID PROJECT				

TEMPORARY TRAFFIC SIGNAL LEGEND

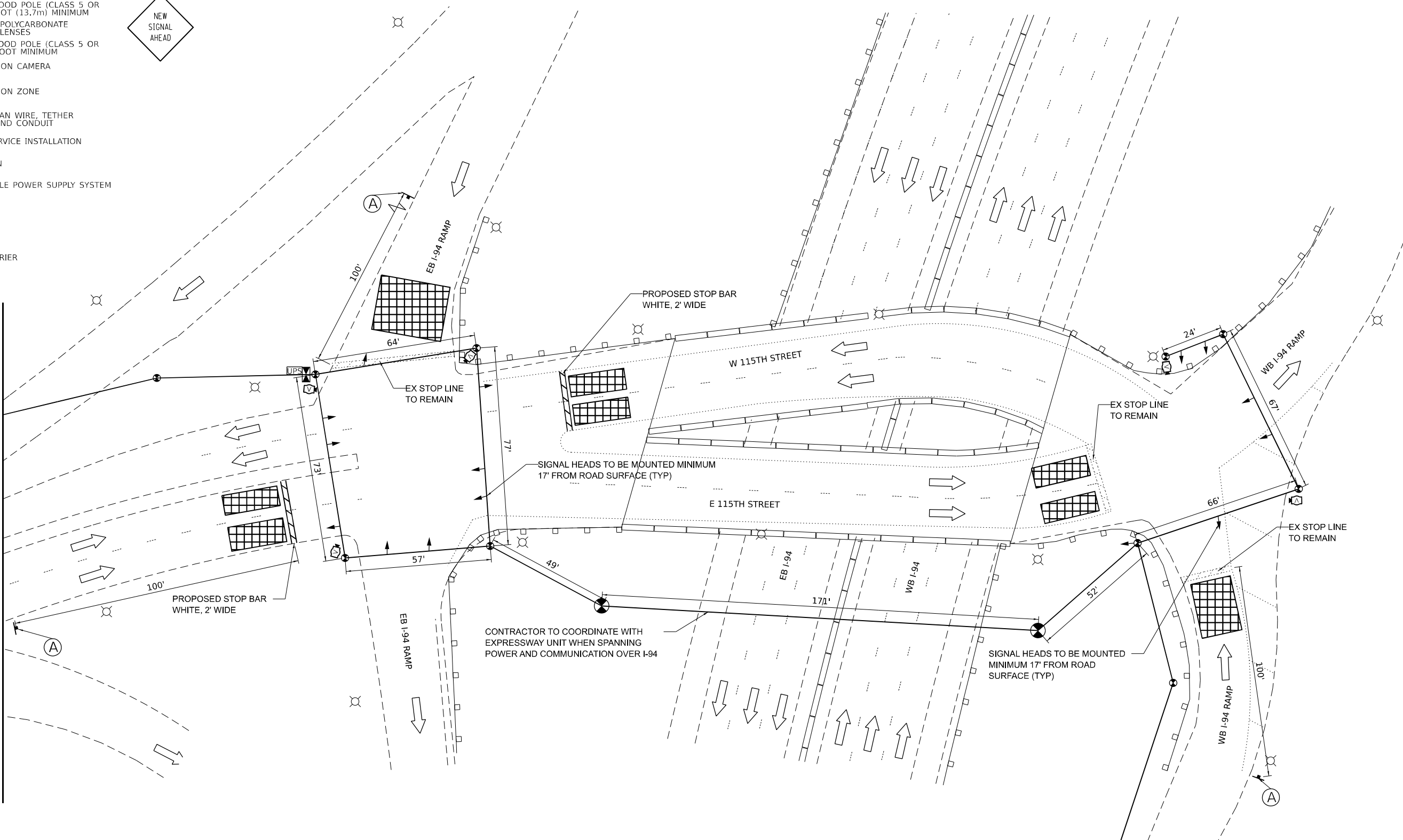
-  CONTROLLER CABINET
-  TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
-  SIGNAL HEAD, POLYCARBONATE WITH 12" LED LENSES
-  TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 100 FOOT MINIMUM
-  VIDEO DETECTION CAMERA
-  VIDEO DETECTION ZONE
-  TEMPORARY SPAN WIRE, TETHER WIRE, CABLE AND CONDUIT
-  TEMPORARY SERVICE INSTALLATION
-  PROPOSED SIGN
-  UNINTERRUPTIBLE POWER SUPPLY SYSTEM



EXISTING LEGEND

-  LIGHT POLE
-  CONCRETE BARRIER
-  GUARDRAIL

MATCHLINE A-A  
SEE NEXT SHEET



BILL OF MATERIALS 115TH STREET AT BISHOP FORD			
CODE	ITEM	UNIT	QUANTITY
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	50
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2
	PROPOSED SIGN	EACH	3

MODEL: D:\p\c\...  
 FILE NAME: P:\00000000 - IDOT\04000000 - ENG - PTB - 1954-016 Phase II Vpr Vpr\Engineering\WO 2 - 130th at I94-RR1900 - Drawings\502\_CADD\_Sheets\162M41-51t-TempSignal.dwg  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-414-0500  
 www.bowmanconsulting.com



USER NAME = apatel	DESIGNED - KH	REVISED -	
	DRAWN - KM	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED - AP	REVISED -	
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**










**TEMPORARY TRAFFIC SIGNAL  
STAGE 1**

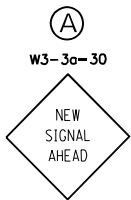
SCALE: NONE    SHEET 2    OF 4    SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	32
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				






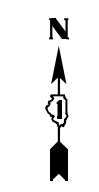
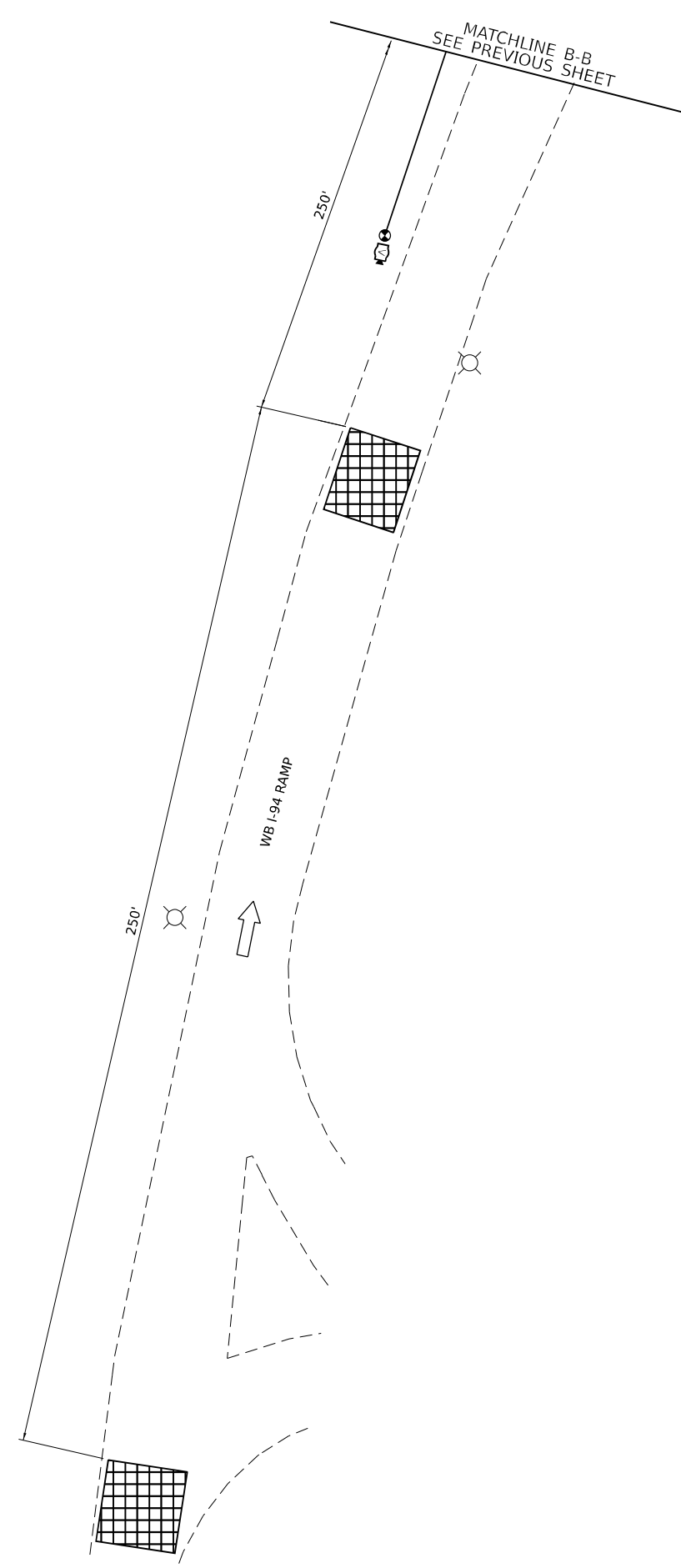
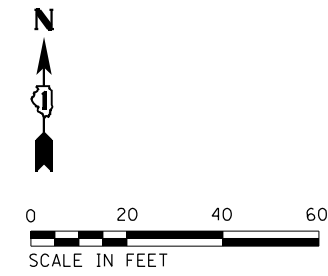
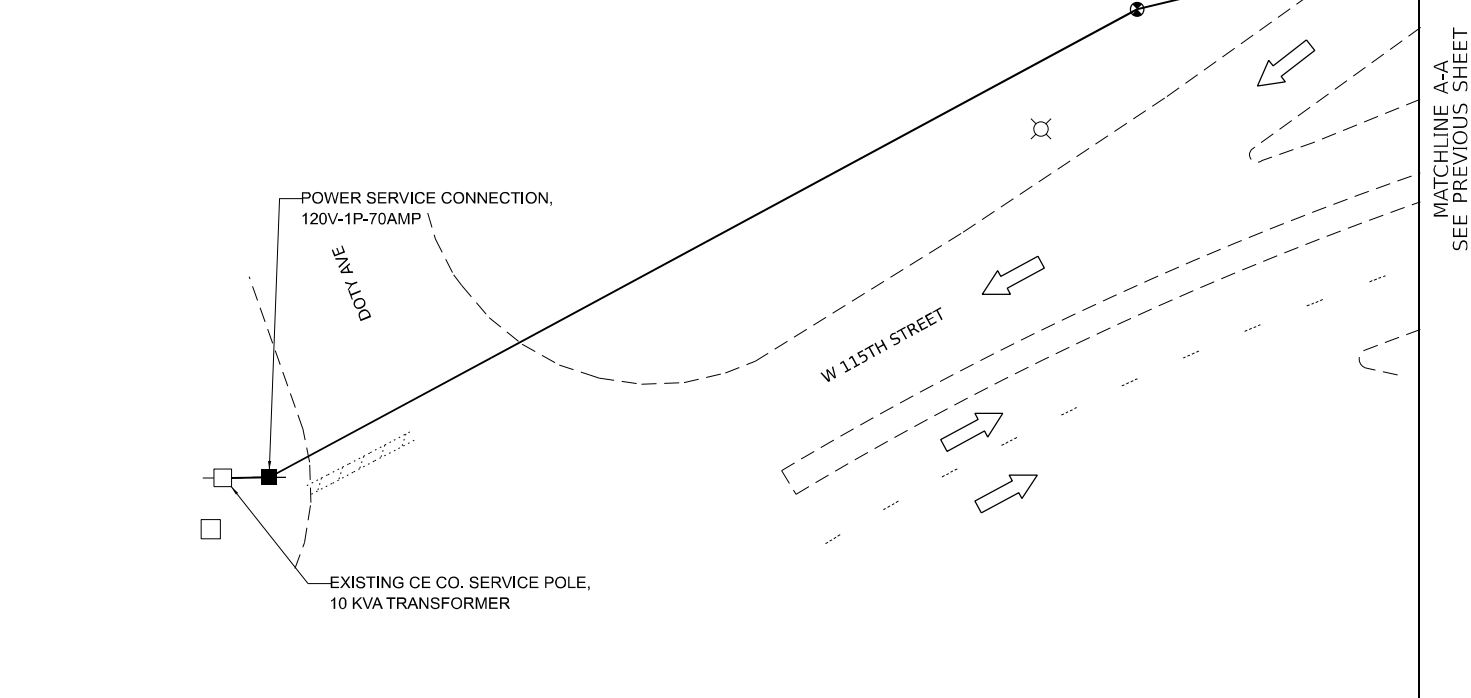
TEMPORARY TRAFFIC SIGNAL LEGEND

-  CONTROLLER CABINET
-  TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
-  SIGNAL HEAD, POLYCARBONATE WITH 12" LED LENSES
-  TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 100 FOOT MINIMUM
-  VIDEO DETECTION CAMERA
-  VIDEO DETECTION ZONE
-  TEMPORARY SPAN WIRE, TETHER WIRE, CABLE AND CONDUIT
-  TEMPORARY SERVICE INSTALLATION
-  PROPOSED SIGN



EXISTING LEGEND

-  LIGHT POLE
-  CONCRETE BARRIER
-  GUARDRAIL



MODEL: D:\p4\h...  
 FILE NAME: P:\C\0039... IDOT\040068\01\002 (ENG) - PTB 1954\16 Phase II Vpr Vpr\Engineering\WO 2 - 130th at I94-RR1900 Drawing\502 CADD Sheets\1632\11-516-TempSignalP.dwg



USER NAME = apatel	DESIGNED - KH	REVISED -
DRAWN - KM	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -






**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL  
STAGE 1**

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	33
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				

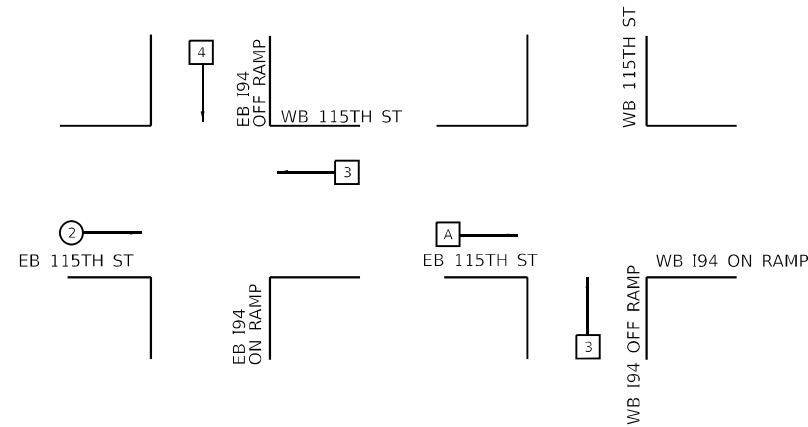
TEMPORARY CABLE DIAGRAM LEGEND

-  CONTROLLER CABINET
-  TEMPORARY TRAFFIC SIGNAL SECTION
-  INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED
-  VIDEO DETECTION CAMERA
-  VIDEO DETECTOR CABLE AS RECOMMENDED BY VIDEO CAMERA MANUFACTURER
-  FIBER OPTIC CABLE - NO. 62.5/125, MM12F
-  UNINTERRUPTIBLE POWER SUPPLY SYSTEM



LEGEND

-  SINGLE ENTRY PHASE
-  DUAL ENTRY PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

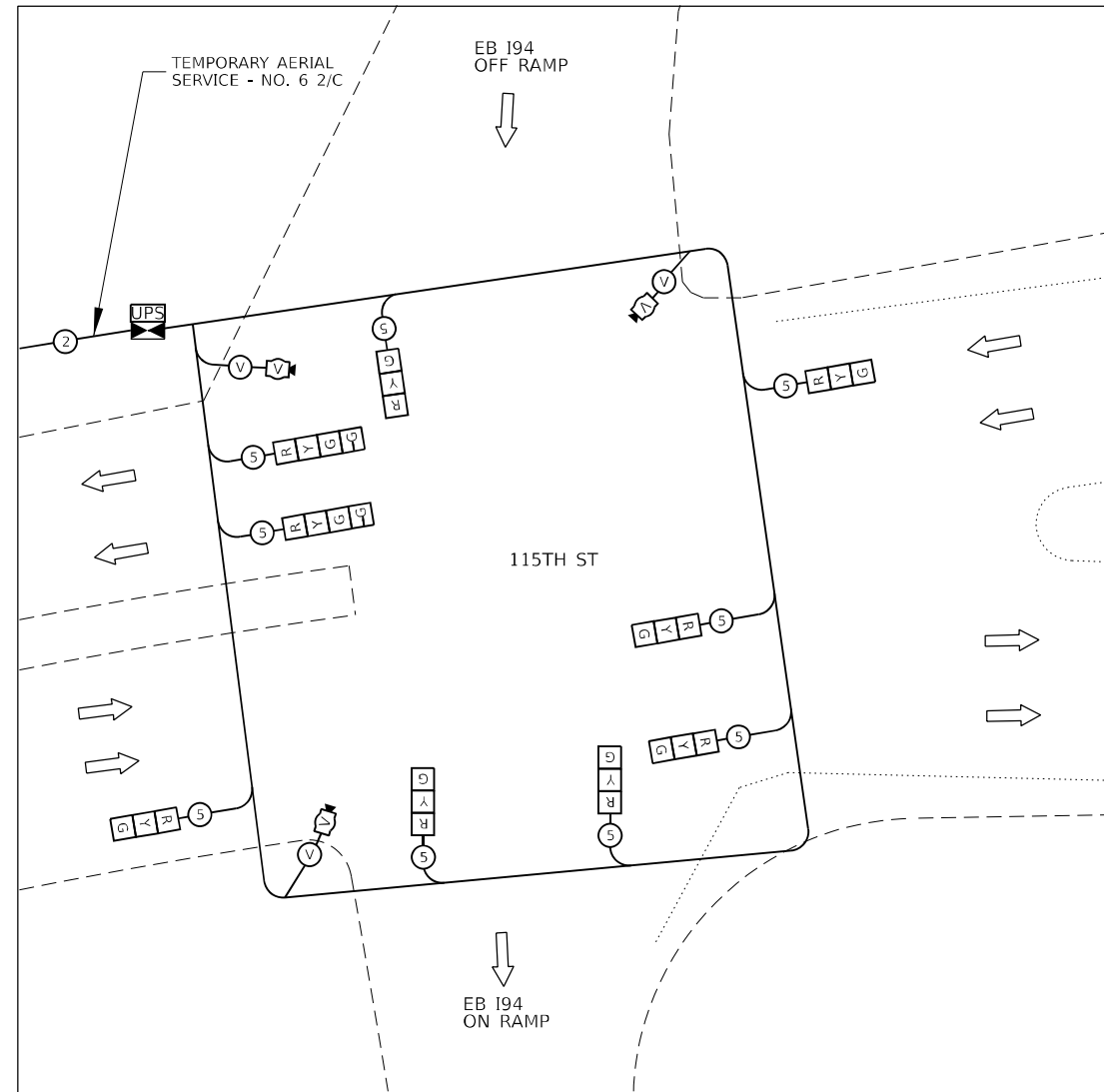


TEMPORARY PHASE DESIGNATION DIAGRAM

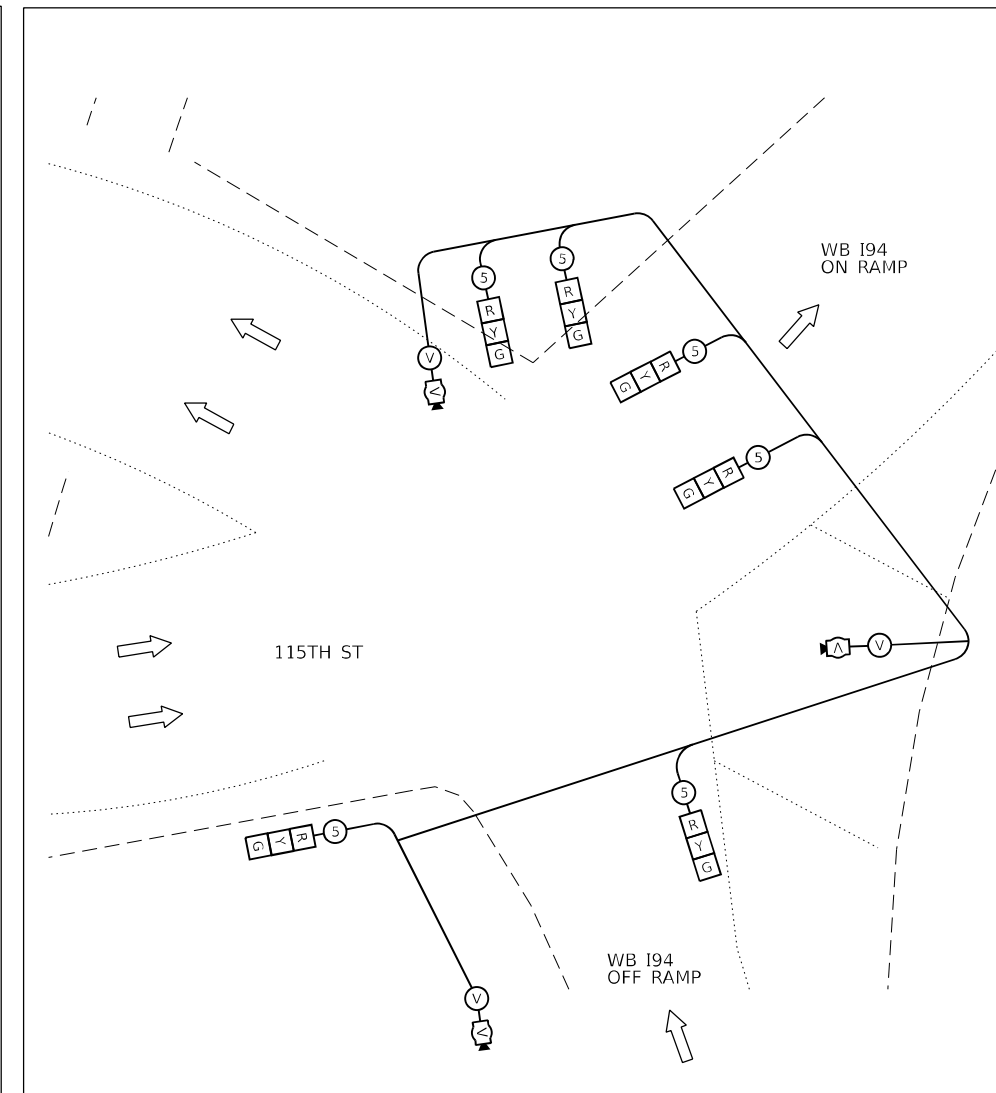
N.T.S.

OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PHASES
A	= 2 + 4



TEMPORARY CABLE PLAN - EASTBOUND 94 AT 115TH STREET



TEMPORARY CABLE PLAN - WESTBOUND 94 AT 115TH STREET

TEMPORARY TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS 115TH STREET AND I-94					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND. -LED.	% OPERATION		
SIGNAL (RED)	15	17	0.50		127.50
SIGNAL (YELLOW)	15	25	0.25		93.75
SIGNAL (GREEN)	15	15	0.25		56.25
ARROW	2	12	0.10		2.40
PED. SIGNAL			1.00		
CONTROLLER	1	100	1.00		100.00
FLASHER					
				TOTAL =	379.90

RESTORATION OF WORK AREA:

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CONSTRUCTION NOTES:

- CONTRACTOR SHALL RESTORE INTERSECTION TO PRE-CONSTRUCTION CONDITIONS AFTER COMPLETION OF DETOUR STAGE
- PROPOSED SERVICE TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SHALL BE FROM TEMPORARY SERVICE 120V-1P-70 AMPS

MODEL: D:\c4\h\... FILE NAME: P:\000089... I:\DOT\040089\01\002 (ENG) - PTB 1954\16 Phase II Vpr Vpr\Engineering\WO 2 - 130th at I94-RR1900 Drawings\502 CADD Sheets\162M41-51b-TemporarySignalDiagram.dwg



USER NAME = apatel	DESIGNED - KH	REVISED -
	DRAWN - KM	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - AP	REVISED -
PLOT DATE = 3/17/2021	DATE - 3/17/2021	REVISED -

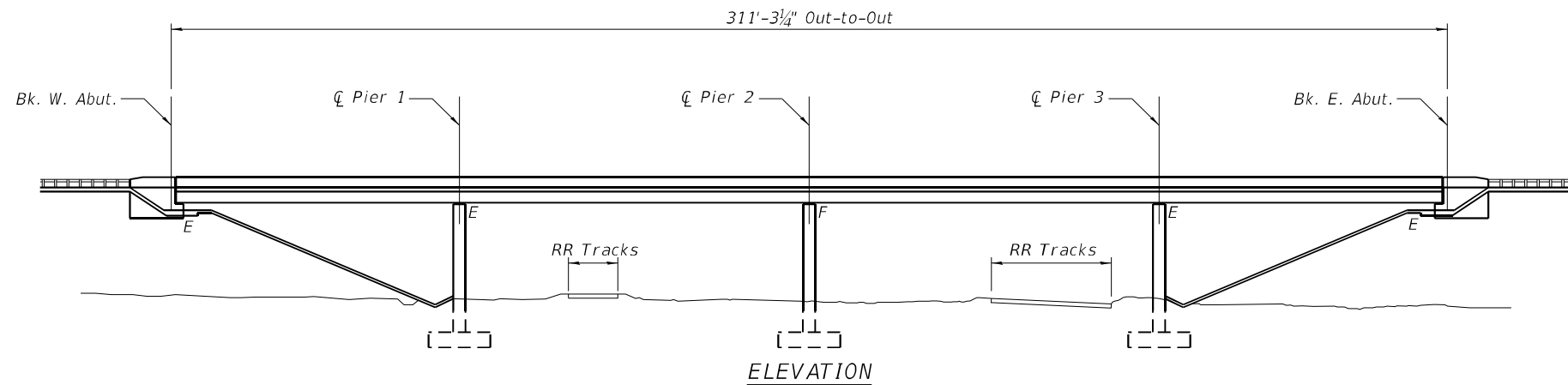
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM  
AND OVERLAP PHASE DESIGNATION - STAGE 1

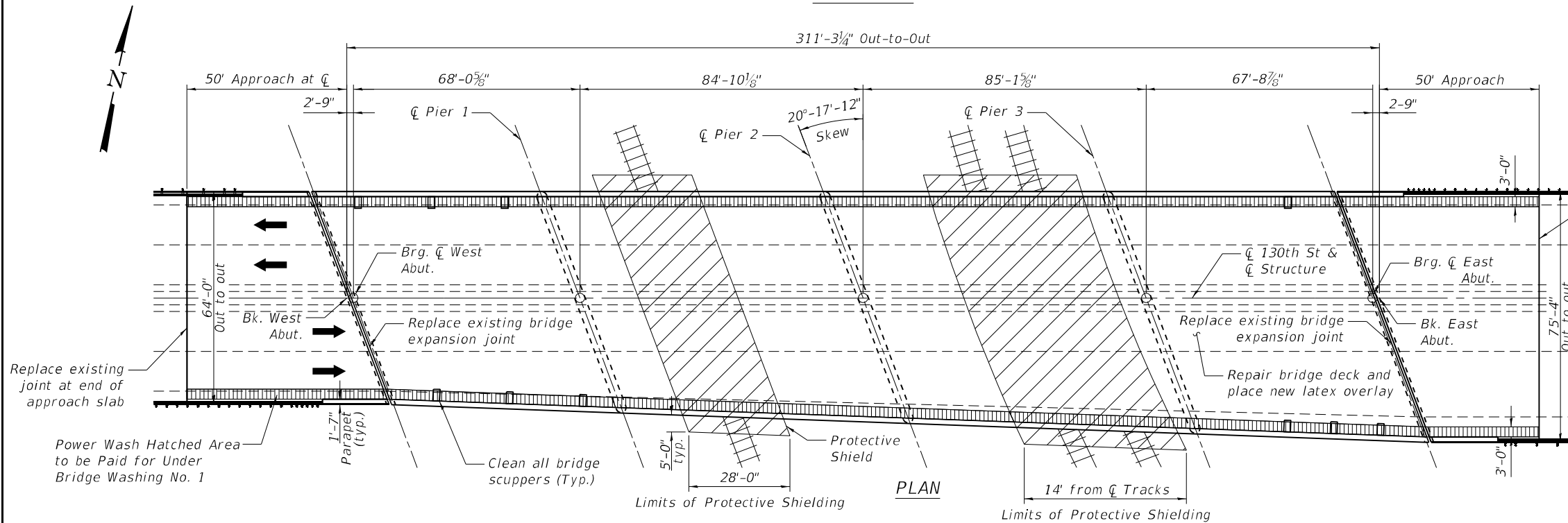
SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 34
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	

Existing Structure:  
 S.N. 016-2434, originally built in 1991 as a two-span continuous steel superstructure with stub abutments and multi-column piers. The back to back length = 311'-3" with a variable width from 64'-0" to 75'-4". Structure is to be repaired as detailed in these plans. The structure will be repaired using staged construction to maintain traffic.



ELEVATION



PLAN

Replace existing bridge expansion joint

Replace existing bridge expansion joint

Repair bridge deck and place new latex overlay

**DESIGN STRESSES**

**FIELD UNITS (EXIST. CONST.)**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi  
 $f_y = 50,000$  psi M223 Gr.50 & M222  
 $f_y = 36,000$  psi M183

**FIELD UNITS (NEW CONST.)**

$f'_c = 4,000$  psi (Superstructure)  
 $f'_c = 3,500$  psi (Substructure)  
 $f_y = 60,000$  psi (Reinforcement)

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges

**LOADING HS20-44**

Existing and Proposed

**LEGEND**

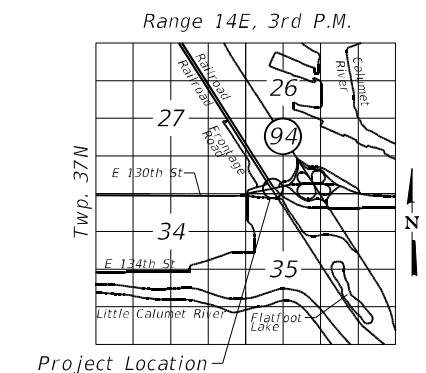
- Protective Shield
- Area to be Power Washed

**INDEX OF SHEETS**

- SA-1 General Plan and Elevation
- SA-2 General Notes & Bill of Materials
- SA-3 Maintenance of Traffic Details
- SA-4 Deck & Approach Slabs Repairs and Overlay Plans
- SA-5 Adjusting Drainage Scupper Details
- SA-6 Joint Repair Limits
- SA-7 Expansion Joint Details
- SA-8 Preformed Joint Strip Seal
- SA-9 Joints and Scuppers As-Built Plans
- SA-10 Pier 1 Repairs
- SA-11 Pier 2 Repairs
- SA-12 Pier 3 Repairs
- SA-13 East and West Abutments Repairs
- SA-14 Bar Splicer Assembly Details

**SCOPE OF WORK**

1. Deck Scarification and Latex Concrete Overlay
2. Deck & approach slab partial and full depth repair
3. Substructure repair
4. Replace existing expansion joints with strip seal joints
5. Replace relief joints
6. Clean bridge and adjust scuppers
7. Apply Concrete Sealer for bridge substructure, parapets and median



Project Location

**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**  
**130TH ST. OVER CSS RR & IHB RR**  
**SECTION 2020-153-BR**  
**COOK COUNTY**  
**STRUCTURE NO. 016-2434**

*Arthur N. Niles*  
 STATE OF ILLINOIS  
 PROFESSIONAL ENGINEER  
 81-5894

SIGNED: 03/18/2021 EXPIRES: 11/30/2022

MODEL: 0162434-D62M41-001  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 2 - 130th at 194-RR\500 Drawings\0162434-D162M41.dgn  
 3/17/2021 11:05:56 AM



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 40:0 ft:in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

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

**GENERAL PLAN AND ELEVATION**  
**130TH ST. BRIDGE OVER RAILROADS - SN 016-2434**

SHEET SA-01 OF SA-14 SHEETS

F.A.P. RTE. 0344	SECTION 2020-153-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

SA-1

**GENERAL NOTES**

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Concrete Sealer shall be applied to all faces of the pier, front face of both abutments, below the bearing seats and above the ground line. Concrete Sealer shall also be applied to front and top face of bridge parapets and entire surface of the median between the ends of the bridge approach slabs.

Protective Coat shall be applied to the top and front face of the new parapet and concrete deck, including new concrete overlay.

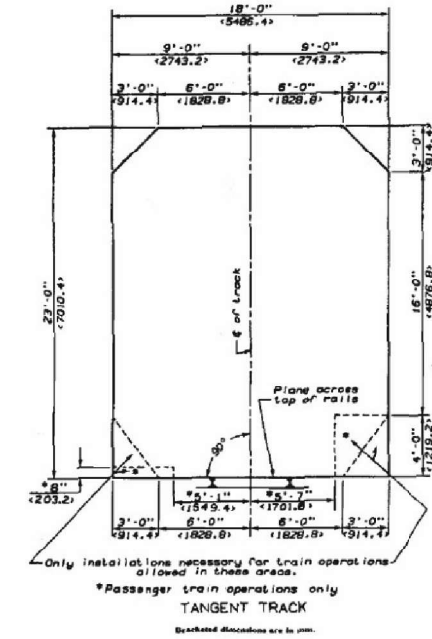
Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

**CONSTRUCTION**

- The contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
- Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustment prior to construction of or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work. However, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- No concrete cutting shall be permitted until the cutting limits have been outlined by the contractor and approved by the engineer.
- The location and extent of repair items are based on visual observation made during field investigations, and are not guaranteed to be accurate or all inclusive. The location, extent of repair, and quantity or repair shall be field verified by the field engineer.
- Whenever any material is deposited into a drainage system or drainage structures, the deposited material shall be removed at the close of each working day. At the conclusion of construction operations, all drainage systems and structures shall be free from dirt and debris deposited during the various construction operations. The work specified above will not be paid for separately, but shall be considered included in the cost of "Cleaning Bridge Scuppers and Downspouts".
- It shall be the contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
- The Contractor shall not store any construction equipment nor stock pile any material within the railroad clearance diagram.
- The end diaphragms shall not be used for jacking purposes during temporary cribbing and shoring operations unless checked and verified by an Illinois Licensed Structural Engineer.

**TOTAL BILL OF MATERIAL**

ITEM NO.	DESCRIPTION	Unit	Super	Sub	Total
50102400	Concrete Removal	Cu. Yd.	19.1	-	19.1
50157300	Protective Shield	Sq. Yd.	650	-	650
50300255	Concrete Superstructure	Cu. Yd.	19.1	-	19.1
50300260	Bridge Deck Grooving	Sq. Yd.	2,761	-	2,761
50300300	Protective Coat	Sq. Yd.	2,959	-	2,959
50800205	Reinforcement Bars, Epoxy Coated	Pound	2,560	-	2,560
50800515	Bar Splicers	Each	22	-	22
52000110	Prefomed Joint Strip Seal	Foot	152.0	-	152.0
58700300	Concrete Sealer	Sq. Ft.	3,775	12,503	16,278
59000200	Epoxy Crack Injection	Foot	10.0	10.0	20.0
59200101	Bridge Washing No. 1	Each	1	-	1
X0322215	Cleaning Bridge Scuppers and Downspouts	Each	10	-	10
Z0001700	Approach Slab Repair (Full Depth)	Sq. Yd.	38.7	-	38.7
Z0005874	Bonded Prefomed Joint Sealer, 3 Inch	Foot	133.0	-	133.0
Z0006012	Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq. Yd.	2,863	-	2,863
Z0012130	Bridge Deck Scarification 3/4"	Sq. Yd.	2,257	-	2,257
Z0012142	Bridge Deck Scarification 2 1/4"	Sq. Yd.	606	-	606
Z0012754	Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	-	139	139
Z0012755	Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	-	41	41
Z0016001	Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.4	-	0.4
Z0016002	Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	0.7	-	0.7
Z0018051	Drainage Scuppers to be Adjusted	Each	10	-	10
Z0048665	Railroad Protective Liability Insurance	L Sum	-	1	1
Z0073200	Temporary Shoring and Cribbing	Each	-	4	4



**RAILROAD CLEARANCE DIAGRAM**

MODEL: 0162434-D62M41-002 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var\_VanEngineering\WO 02 - 130th at 194+RRV500 Drawings\501\_CADD Drawings\0162434-D-162M41.dgn

**Bowman CONSULTING**  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-414-0580  
 www.bowmanconsulting.com

USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 2:0 ft:in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

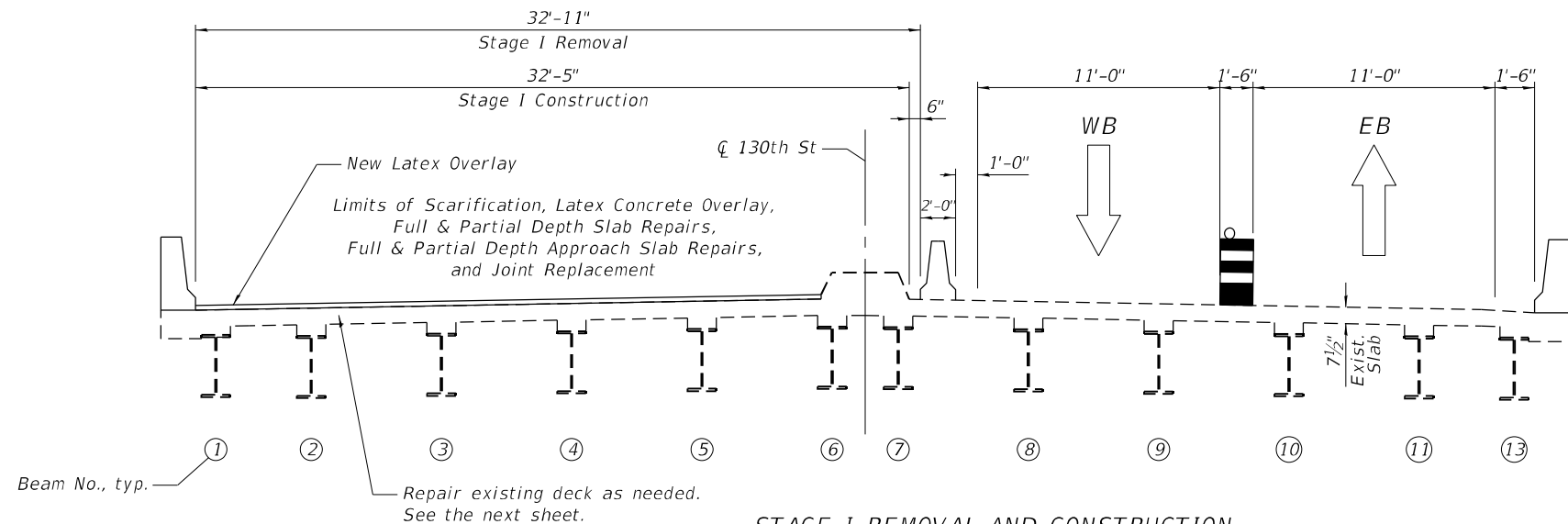
**GENERAL NOTES AND BILL OF MATERIAL  
 130TH ST. BRIDGE OVER RAILROADS - SN 016-2434**

SHEET SA-02 OF SA-14 SHEETS

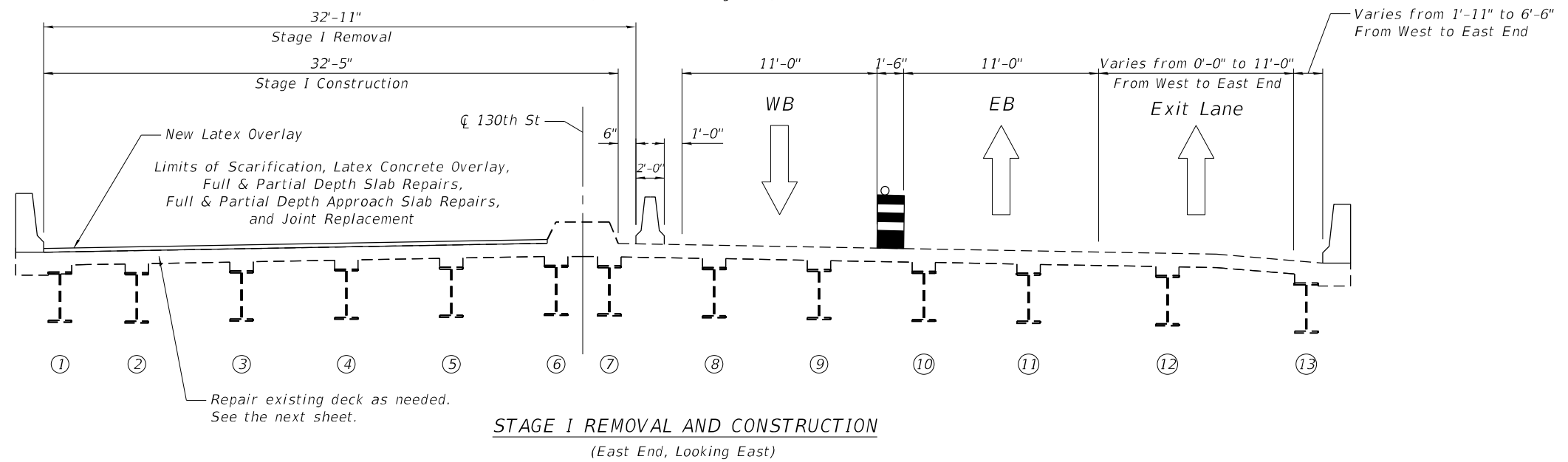
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	36
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				

SA-2

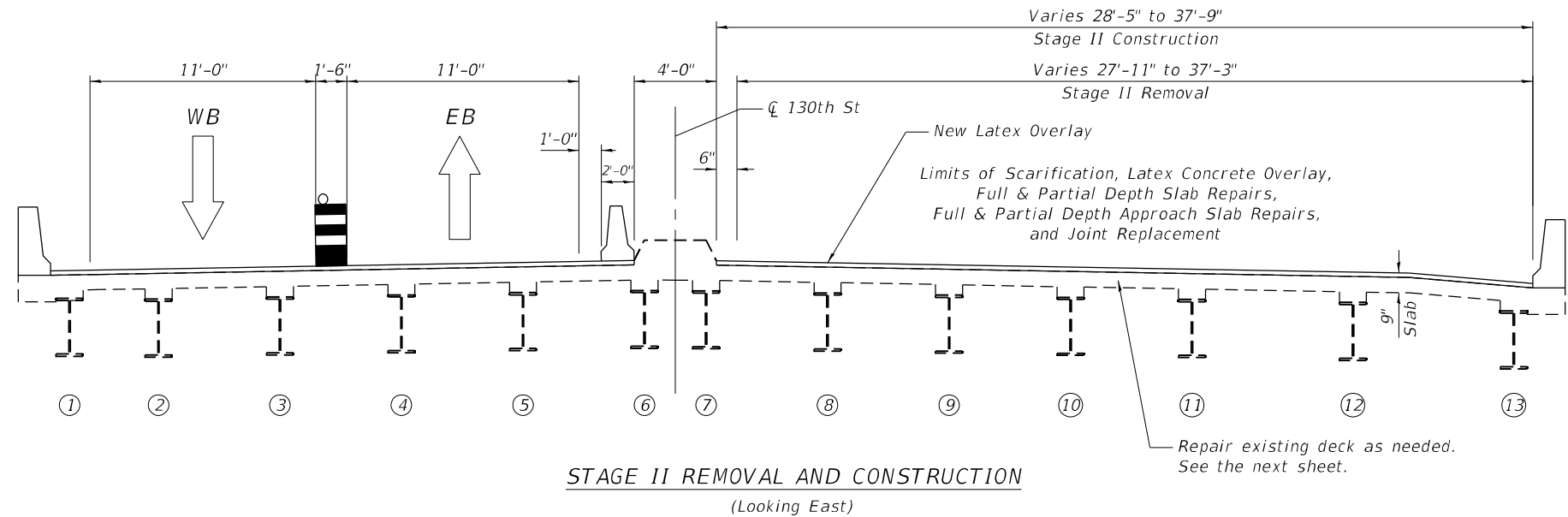
MODEL: 0162434-D62M41-003  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 2 - 130th at 194-RR\1500 Drawings\0162434-D162M41.dgn



**STAGE I REMOVAL AND CONSTRUCTION**  
 (West End, Looking East)



**STAGE I REMOVAL AND CONSTRUCTION**  
 (East End, Looking East)



**STAGE II REMOVAL AND CONSTRUCTION**  
 (Looking East)



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 40:0 ft:in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

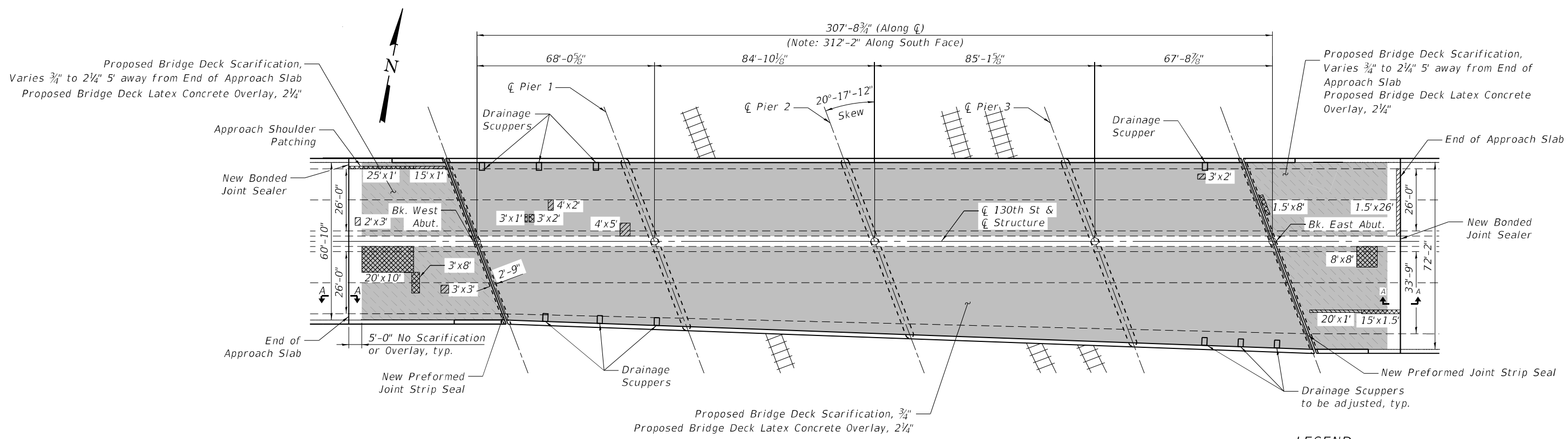
**MAINTENANCE OF TRAFFIC DETAILS  
 130TH ST. BRIDGE OVER RAILROAD - SN 016-2434**

SHEET SA-03 OF SA-14 SHEETS

F.A.P. RTE. 0344	SECTION 2020-153-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

SA-3

MODEL: 0162434-D62M41-004  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var.VanEngineering\WO 02 - 130th at 194+RRV500 Drawings\501 CADD Drawings\0162434-D-162M41.dgn  
 3/17/2021 4:57:49 PM

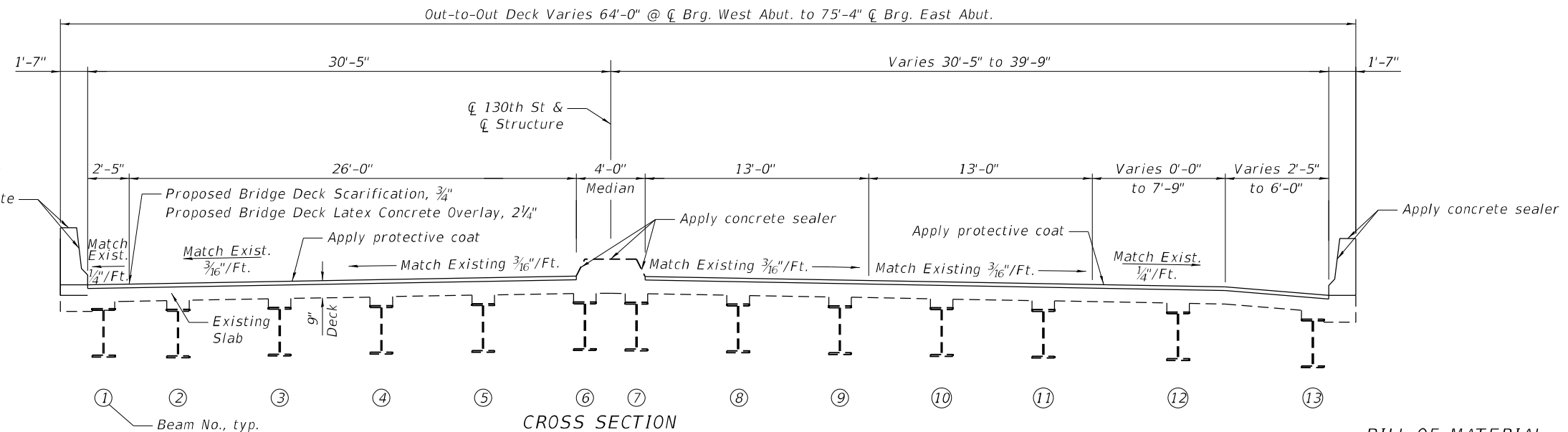


PLAN

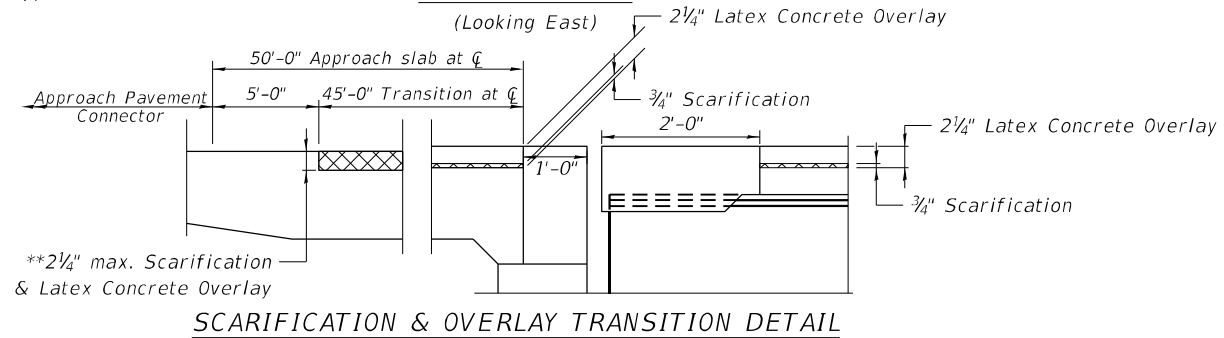
- Notes:
- All drainage scuppers must be protected during concrete scarification and overlay placement operations.
  - Use of hand tools is required while working around the scuppers.
  - Hand finish of overlay material is required around the scuppers. The cost is included in the Bridge Deck Latex Concrete Overlay, 2 1/4".
  - Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

**LEGEND**

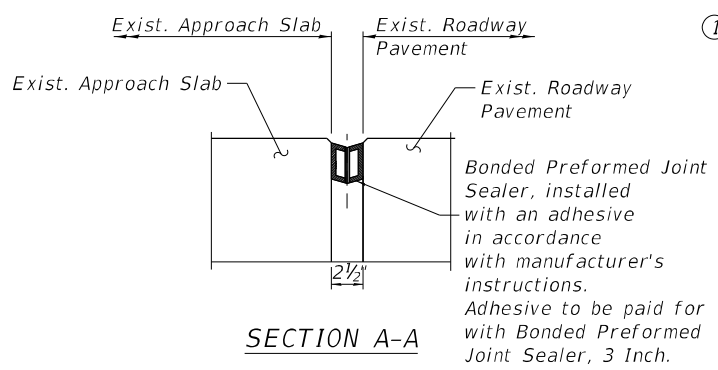
- Deck & Approach Slab Repair, Partial Depth
- Deck & Approach Slab Repair, Full Depth
- Variable Depth Scarification\*\*



CROSS SECTION (Looking East)



SCARIFICATION & OVERLAY TRANSITION DETAIL



SECTION A-A

BILL OF MATERIAL

Item	Unit	Total
Bridge Deck Grooving	Sq. Yd.	2,761
Protective Coat	Sq. Yd.	2,959
Approach Slab Repair (Full Depth)	Sq. Yd.	38.7
Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq. Yd.	2,863
Bridge Deck Scarification, 3/4"	Sq. Yd.	2,257
Bridge Deck Scarification, 2 1/4"	Sq. Yd.	606
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.4
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	0.7
Protective Shield	Sq. Yd.	650
Concrete Sealer	Sq. Ft.	3,811



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 40:0 ft:in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

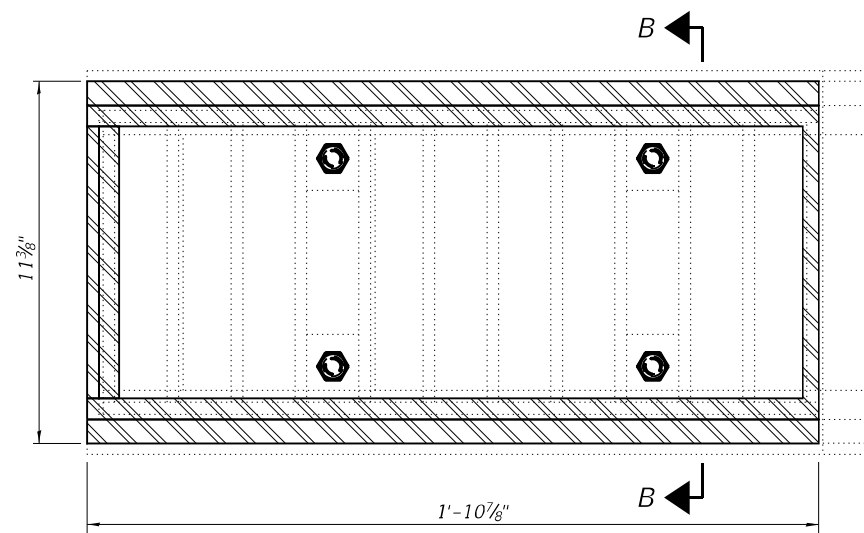
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DECK AND APPROACH SLABS REPAIRS AND OVERLAY PLANS  
130TH ST. BRIDGE OVER RAILROADS - SN 016-2434

F.A.P. RTE. 0344	SECTION 2020-153-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 38
CONTRACT NO. 62M41			ILLINOIS FED. AID PROJECT	

SHEET SA-04 OF SA-14 SHEETS

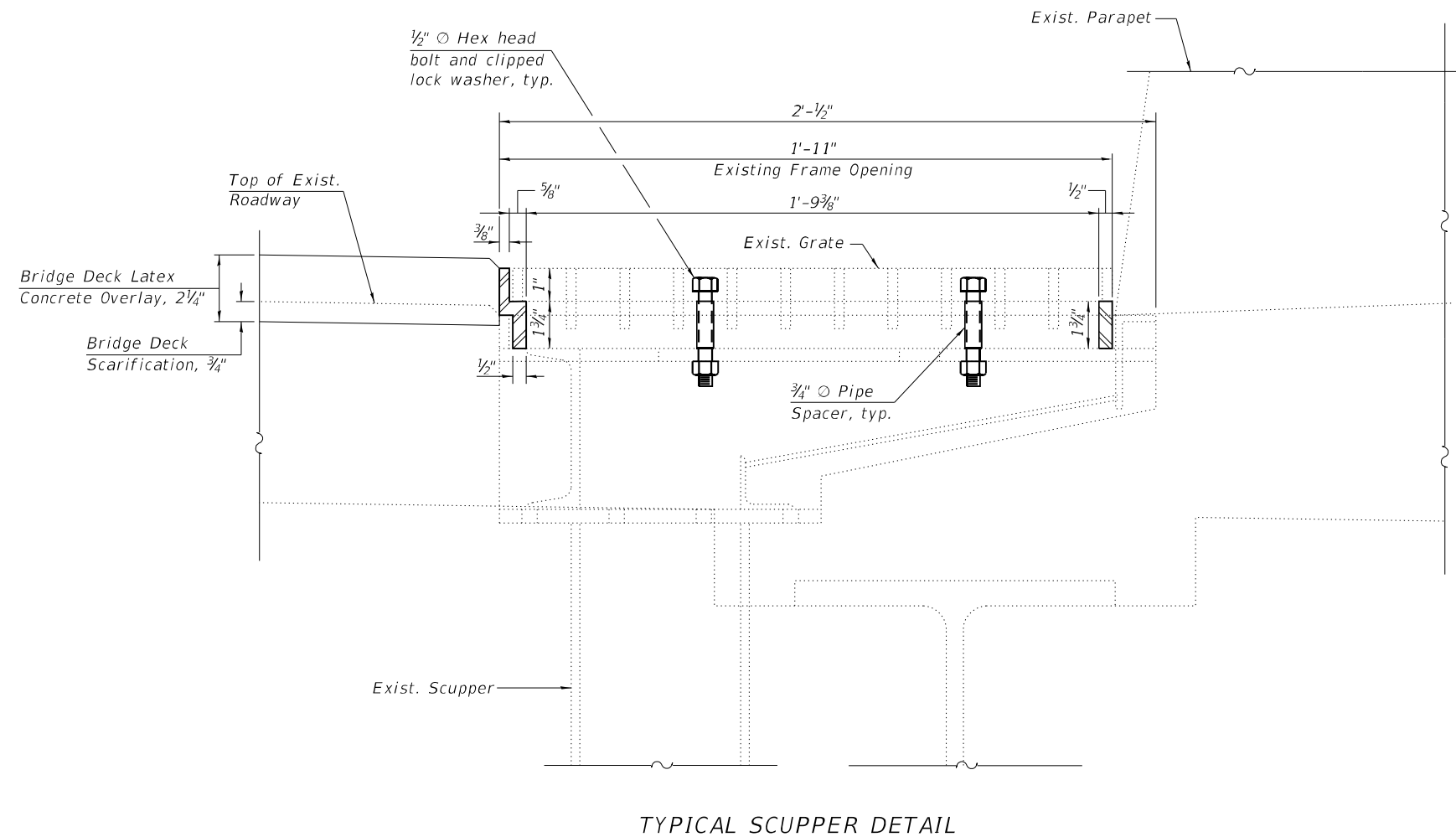
SA-4



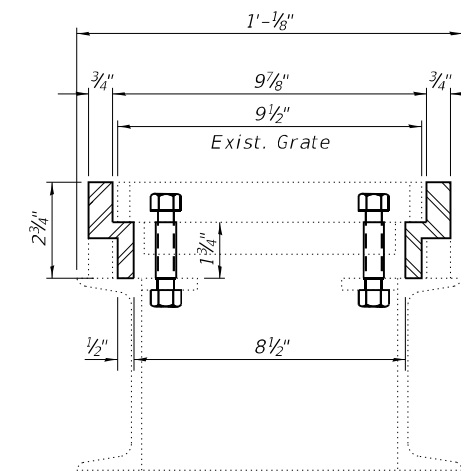
TYPICAL PLAN

NOTES

1. The Contractor shall field verify Existing Dimensions and Details of the Existing Scuppers and make necessary adjustments prior to construction of New Adjusting Ring or ordering of material for Adjusting Drainage Scuppers.
2. All Cast Iron Parts shall be Grey Iron conforming to the requirements of AASHTO M 105, Class 35B.
3. Bolts, Anchor Studs, Washers, and Nuts shall conform to the requirements of AASHTO M 232.
4. Cast Iron Parts shall be unfinished.
5. Adjusting Ring shall be from Neenah and approved equal. Structural Steel weldments or equal sections and of the same configuration may be submitted for Cast Iron. Fillet or full Penetration Welds may be used for weldments. Details shall be submitted to the Engineer for approval.
6. Provide a 1/8" Fillet Weld around perimeter of new Adjusting Ring to secure to existing Scupper. Electrode shall be compatible with Cast Iron.
7. Cost of all labor and materials necessary to clean all existing floor drains and scuppers, install adjusting scupper rings, remove and re-install grates is included in the cost for Drainage Scupper to be Adjusted.



TYPICAL SCUPPER DETAIL



SECTION B-B

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper to be Adjusted	Each	10

MODEL: 0162434-D62M41-005  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 2 - 130th at 194-RR\500 Drawings\501\_CADD Drawings\0162434-D162M41.dgn  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-414-0580  
 www.bowmanconsulting.com

3/17/2021 2:48:56 PM



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 2:0 ft:in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

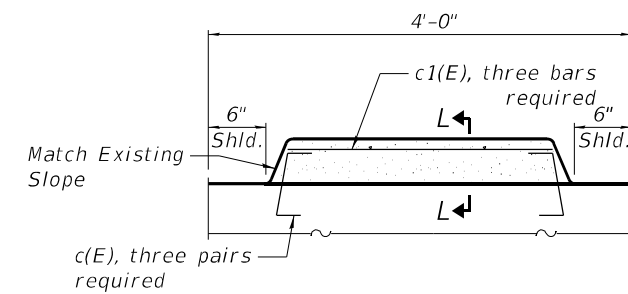
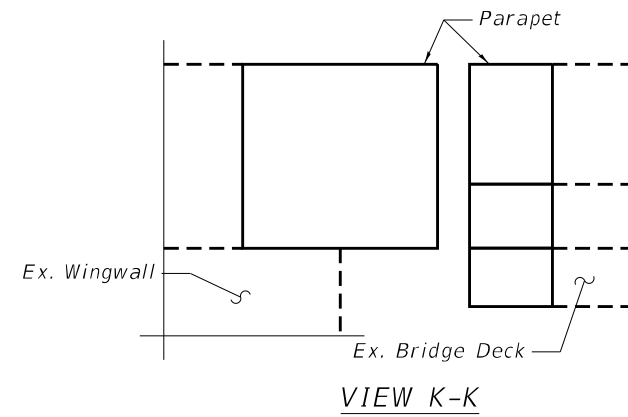
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADJUSTING DRAINAGE SCUPPER DETAILS  
130TH ST. BRIDGE OVER RAILROADS - SN 016-2434

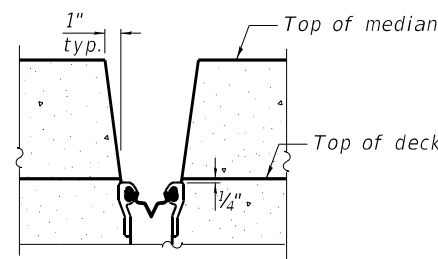
SHEET SA-05 OF SA-14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	39
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

SA-5



MEDIAN REINFORCEMENT DETAIL



SECTION L-L  
(at Rt. L's)

Notes:

Any reinforcement bars that are damaged during concrete removal operation shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.

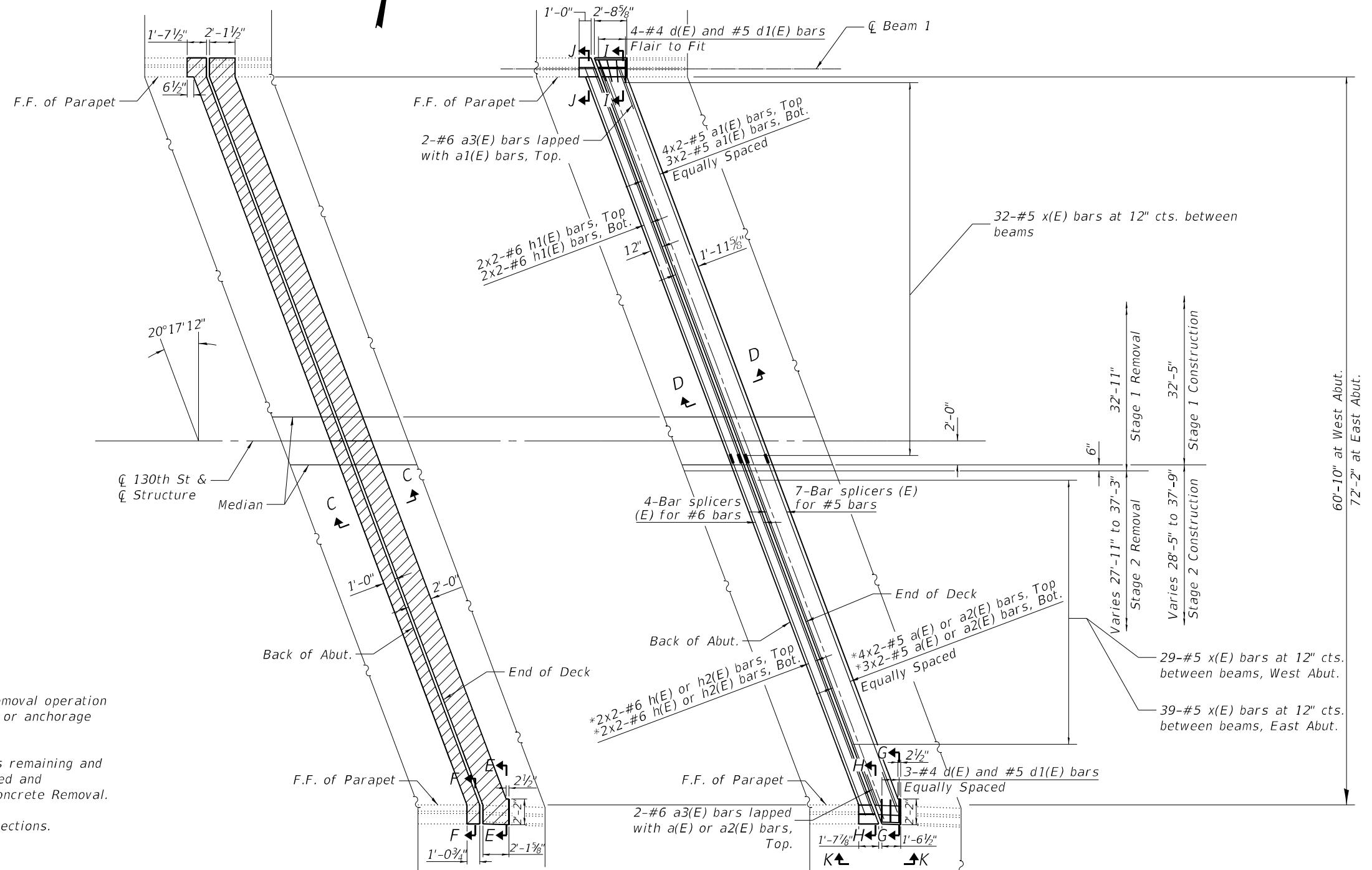
Existing transverse, longitudinal, and vertical reinforcements remaining and extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.

See Sheet SA-7 of 14 for Bill of Material, bar details and sections.

For Overlay details see cross section on sheet SA-4 of 14.

See Sheet SA-8 of 14 for joint seal details.

See Sheet SA-14 of 14 for Bar Splicer details.



CONCRETE REMOVAL PLAN  
(West Abutment Shown, East Abutment Similar)

CONCRETE REPLACEMENT PLAN  
(West Abutment Shown, East Abutment Similar)

\* a(E) and h(E) bars at West Abut.  
\* a2(E) and h2(E) bars at East Abut.

Bars indicated thus 3x2-#5 h1(E) bars indicates 3 lines of bars with 2 lengths per line

Splice Length #6 bar - 4'-0"  
Splice Length #5 bar - 3'-6"

LEGEND  
Concrete Removal

MODEL: 0162434-D62M41-006  
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 02 - 130th at 194+RRV500 Drawings\501\_CADD Drawings\0162434-D-162M41.dgn  
3/17/2021 4:57:50 PM



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 10:0 ft:in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

JOINT REPAIR LIMITS  
130TH ST. BRIDGE OVER RAILROADS - SN 016-2434

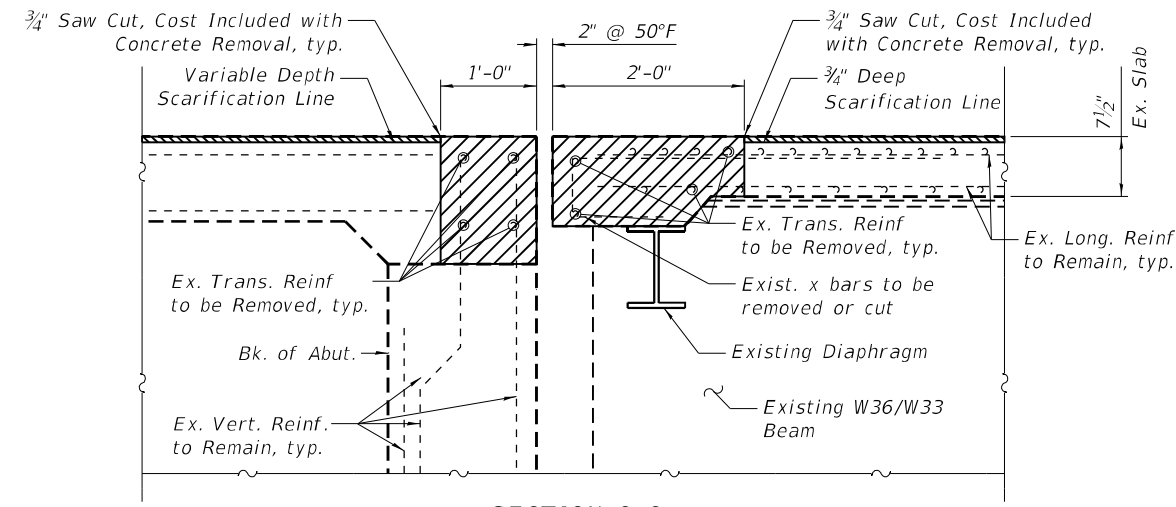
SHEET SA-06 OF SA-14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	40
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

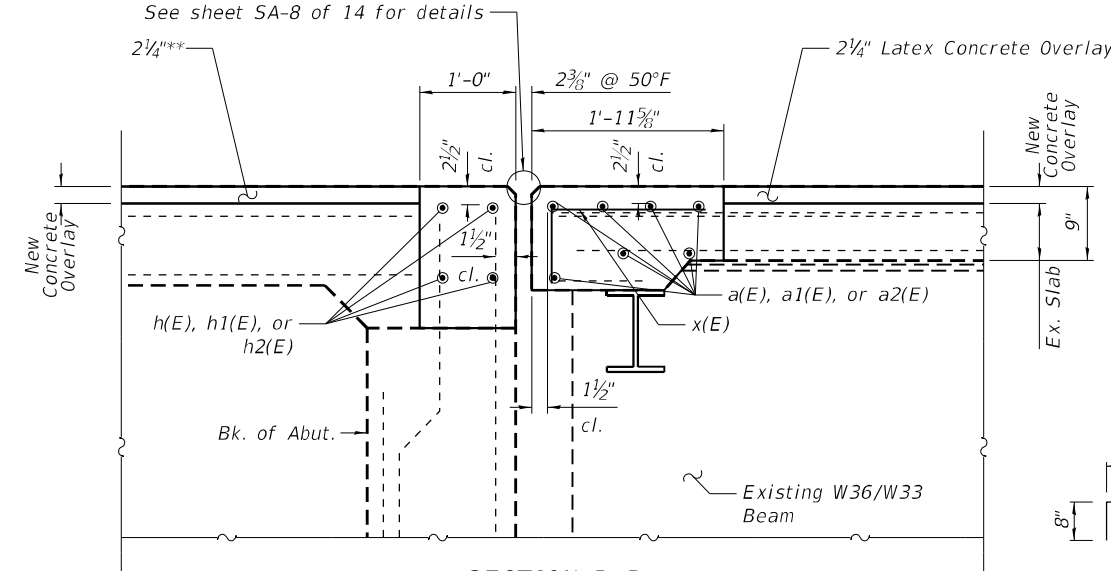
SA-6



MODEL: 0162434-D62M41-007  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var.VanEngineering\VO 02 - 130th at 194+RRV500 Drawings\501\_CADD Drawings\0162434-D-162M41.dgn



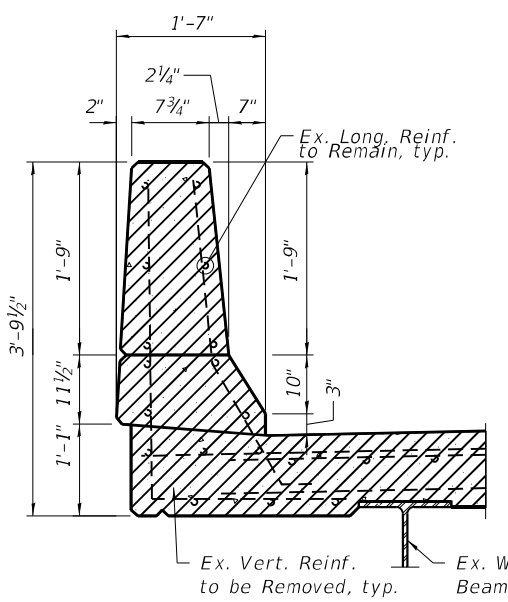
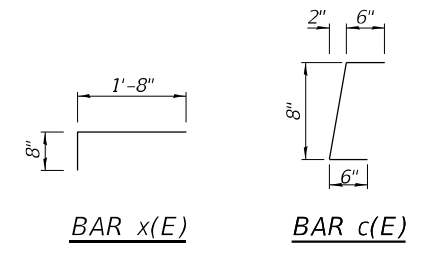
**SECTION C-C**  
(Dim. @ Rt. L's)



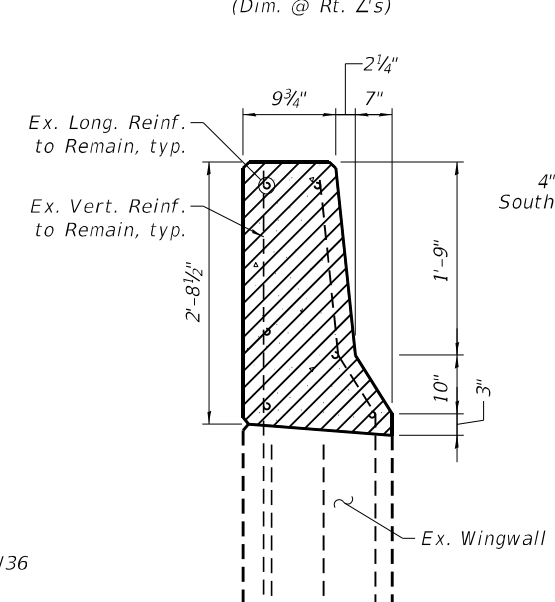
**SECTION D-D**  
(Dim. @ Rt. L's)

**LEGEND**

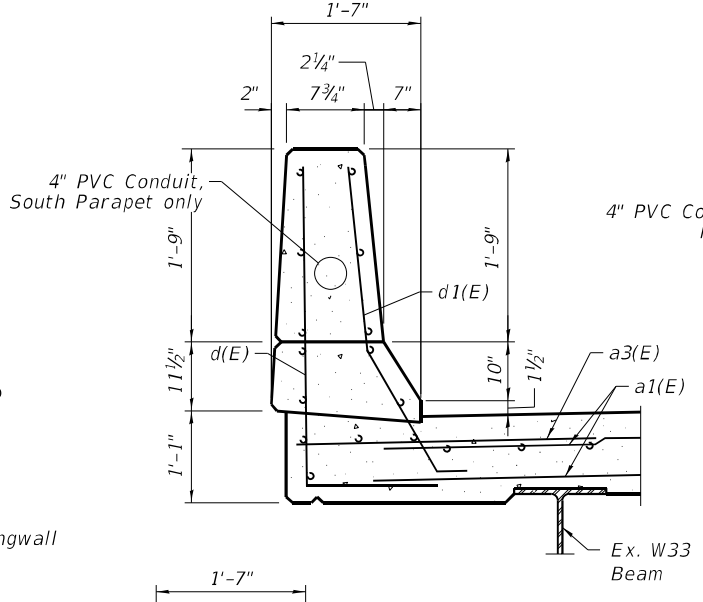
	Concrete Removal
	Scarification



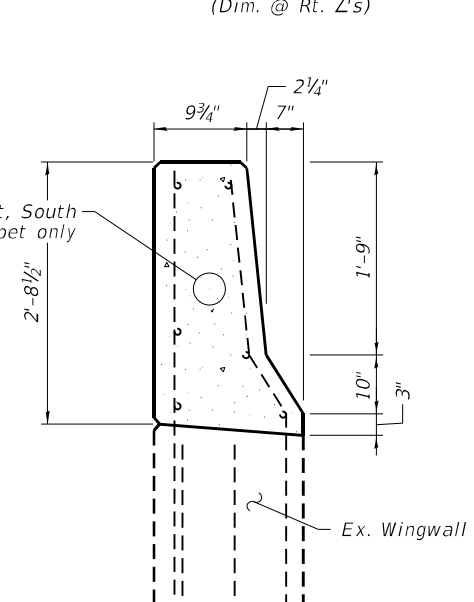
**SECTION E-E**



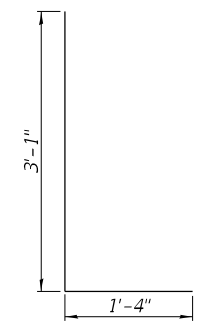
**SECTION F-F**



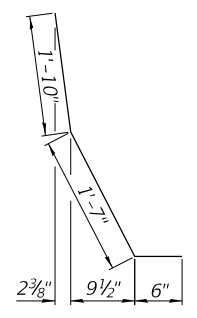
**SECTION G-G**



**SECTION H-H**

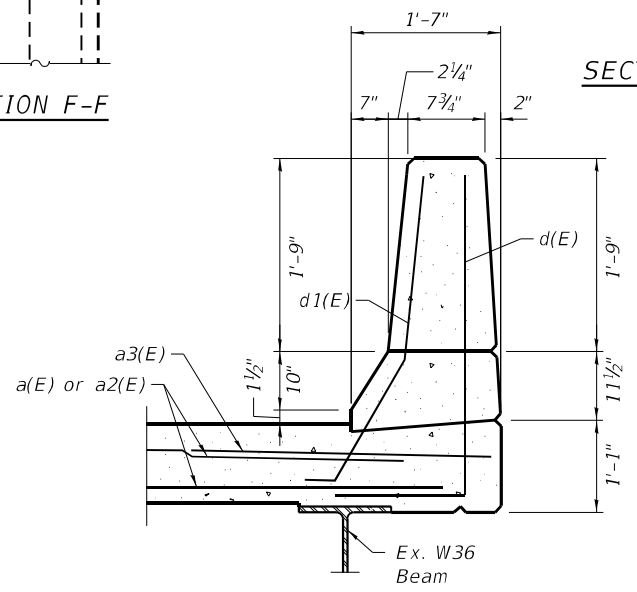


**BAR d(E)**

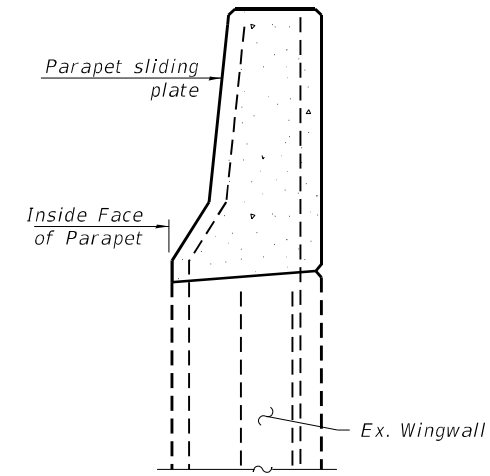


**BAR d1(E)**

\*\*Scarification depth of the bridge approach slabs will vary from 2 1/4 inch near the end of the approach slabs, to 3/4 inch near the abutment. See Scarification and Overlay Transition Detail on sheet SA-4



**SECTION I-I**



**SECTION J-J**

**BILL OF MATERIALS**

Bar	No.	Size	Length	Shape	
a(E)	14	#5	16'-5"	—	
a1(E)	28	#5	18'-3"	—	
a2(E)	14	#5	22'-1"	—	
a3(E)	8	#6	4'-0"	—	
x(E)	132	#5	2'-4"	┌	
c(E)	12	#5	1'-8"	┌	
c1(E)	6	#5	2'-8"	—	
d(E)	14	#5	5'-1"	┌	
d1(E)	14	#5	3'-11"	┌	
h(E)	8	#6	16'-8"	—	
h1(E)	16	#6	18'-6"	—	
h2(E)	8	#6	22'-4"	—	
Item				Unit	Total
Concrete Removal				Cu. Yd.	19.1
Concrete Superstructure				Cu. Yd.	19.1
Reinforcement Bars, Epoxy Coated				Pound	2,560
Bar Splicers				Each	22



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 2:0 ft/in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

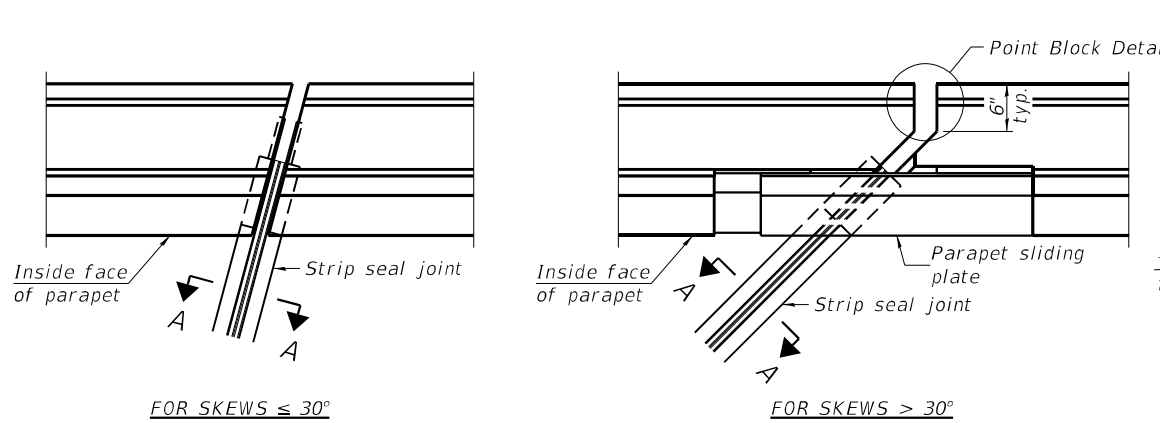
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT DETAILS**  
**130TH ST. BRIDGE OVER RAILROADS - SN 016-2434**

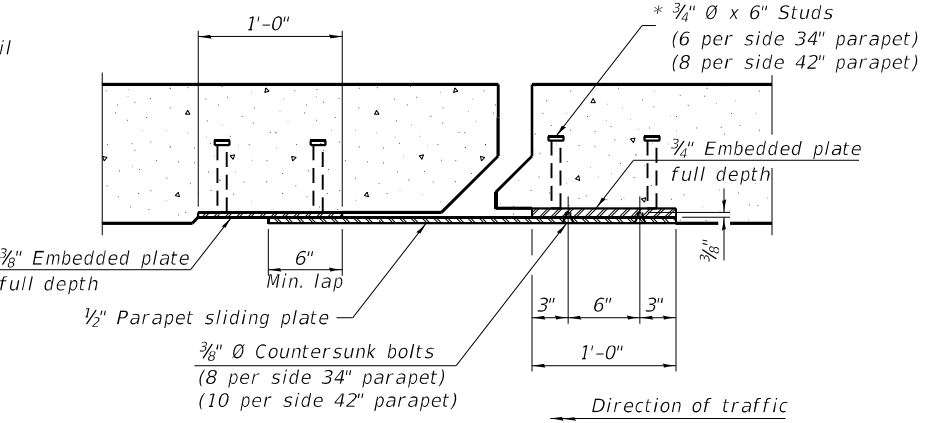
SHEET SA-07 OF SA-14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	41
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

MODEL: 0162434-D62M41-008  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var.VanEngineering\WO 2 - 130th at 194-RR\500 Drawings\0162434-D162M41.dgn  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-414-0580  
 www.bowmanconsulting.com

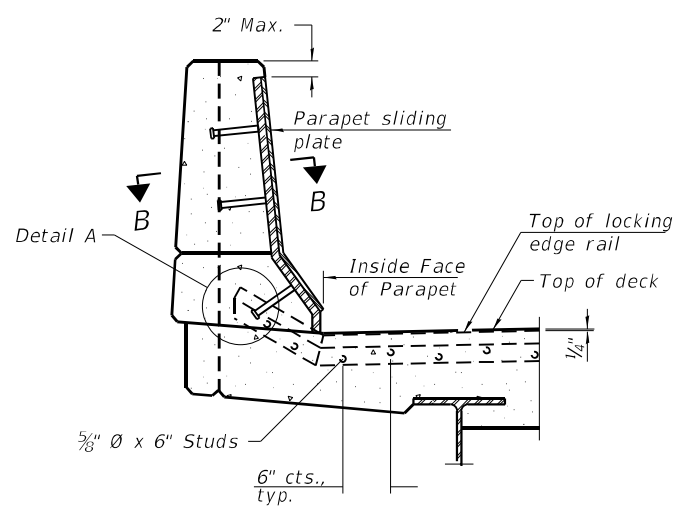


**PLAN AT PARAPET**



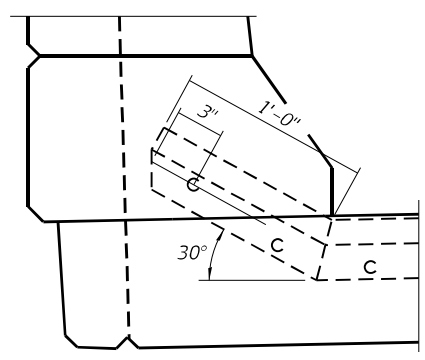
**SECTION B-B**

**Notes:**  
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.  
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.  
 The manufacturer's recommended installation methods shall be followed.  
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.  
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

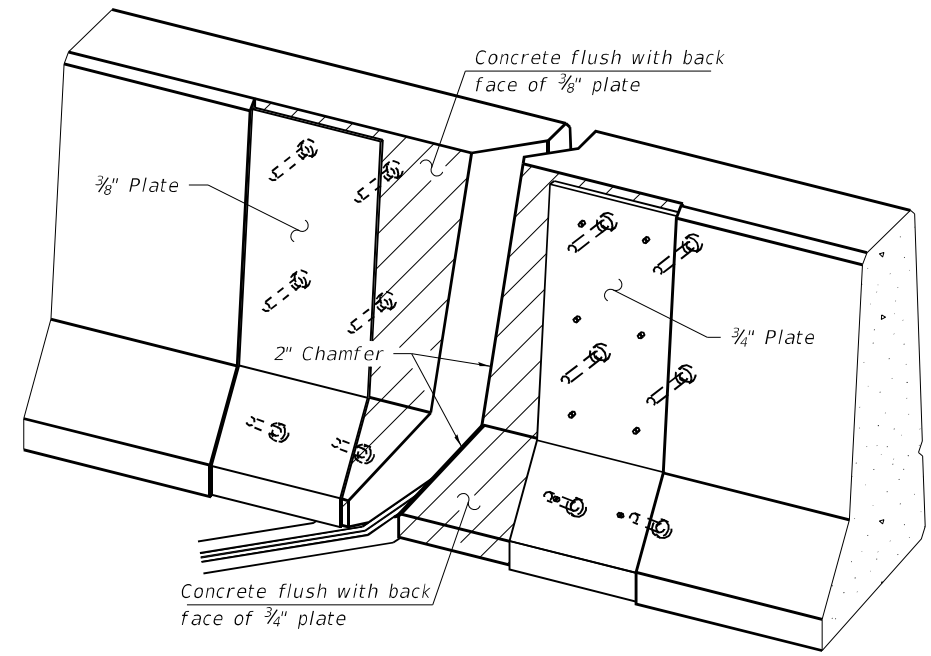


**ELEVATION AT PARAPET**

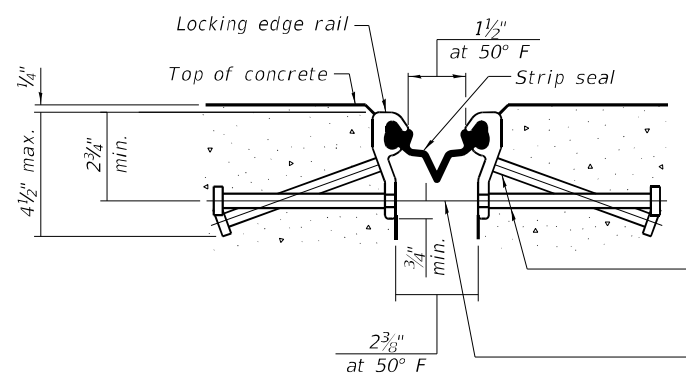
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



**DETAIL A**

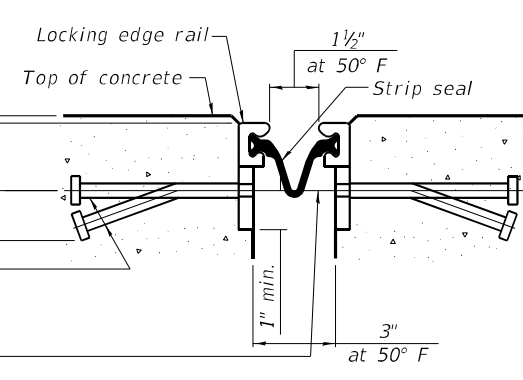


**TRIMETRIC VIEW**  
(Showing embedded plates only)

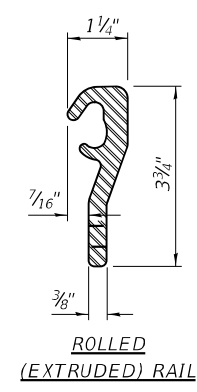


**SHOWING ROLLED RAIL JOINT**

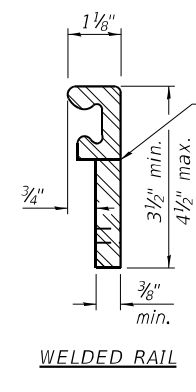
\* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 3/8" Ø threaded rods in 1/16" Ø holes at ±4"-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



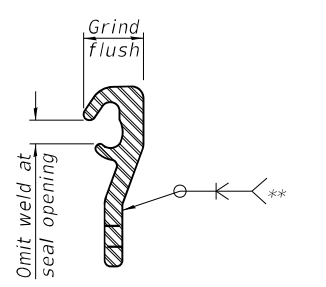
**SHOWING WELDED RAIL JOINT**



**ROLLED (EXTRUDED) RAIL**



**WELDED RAIL**



**LOCKING EDGE RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

**LOCKING EDGE RAILS**  
 \*\* Back gouge not required if complete joint penetration is verified by mock-up.

**SECTION A-A**

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	152

EJ-SS

8-11-17



USER NAME =	atiemann	DESIGNED -	AHT	REVISED -	
		CHECKED -	AJN	REVISED -	
PLOT SCALE =	40:0 ft/in / in.	DRAWN -	AHT	REVISED -	
PLOT DATE =	3/17/2021	CHECKED -	AJN	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

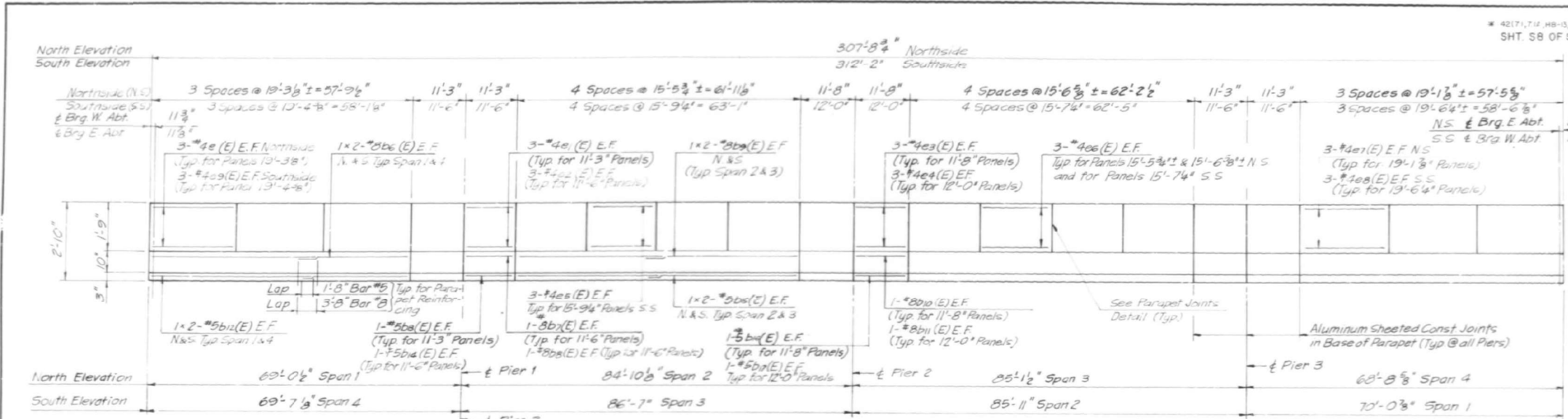
**PREFORMED JOINT STRIP SEAL  
 130TH ST. BRIDGE OVER RAILROADS - SN 016-2434**

SHEET SA-08 OF SA-14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	42
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				

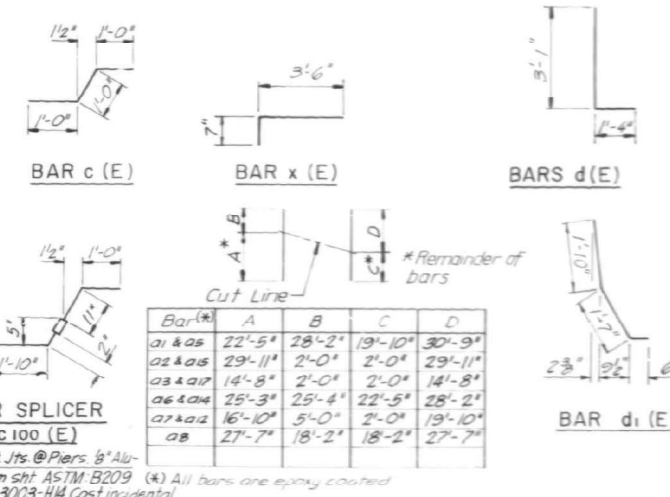
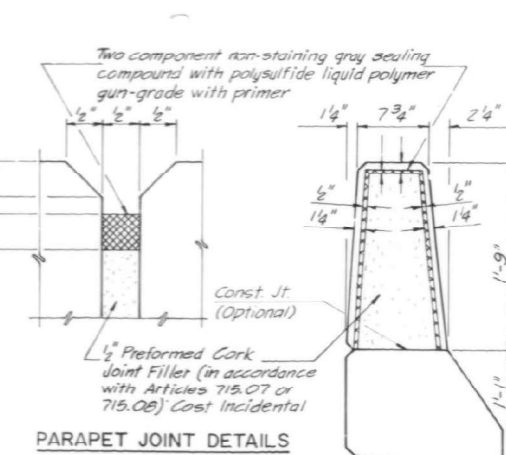
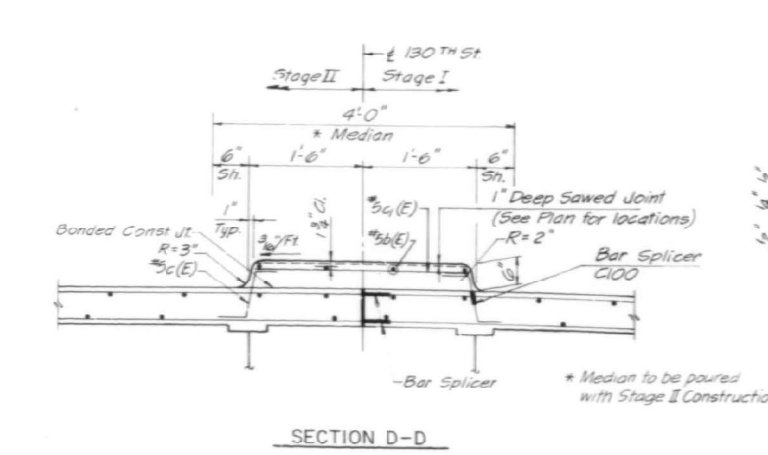
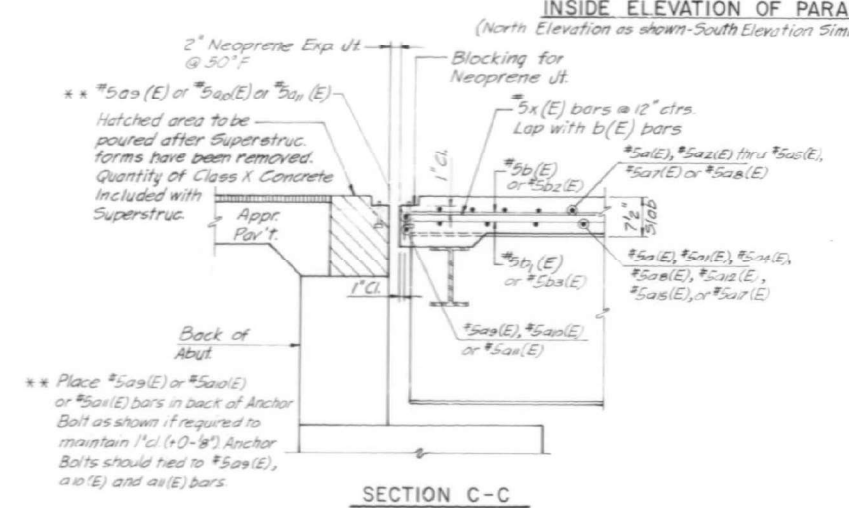
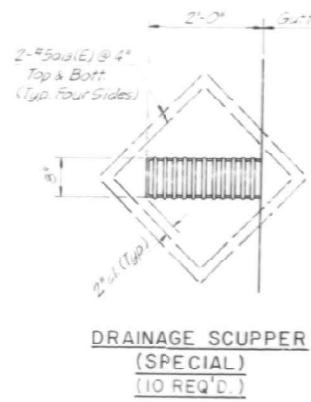
SA-8

DATE	REVISION	BY	REASON
1-94	*	COOK	206 118



**BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	830	#5	31'-6"	
a1(E)	110	#5	50'-7"	
a2(E)	18	#5	31'-11"	
a3(E)	9	#5	16'-8"	
a4(E)	846	#5	14'-8"	
a5(E)	146	#5	20'-7"	
a6(E)	122	#5	50'-7"	
a7(E)	14	#5	21'-10"	
a8(E)	8	#5	45'-9"	
a9(E)	4	#5	36'-6"	
a10(E)	4	#5	33'-7"	
a11(E)	2	#5	15'-8"	
a12(E)	11	#5	21'-10"	
a13(E)	162	#5	21'-0"	
a14(E)	92	#5	50'-7"	
a15(E)	12	#5	31'-11"	
a16(E)	520	#6	4'-0"	
a17(E)	7	#5	16'-8"	
b(E)	693	#5	29'-9"	
b1(E)	468	#5	21'-5"	
b2(E)	190	#5	37'-2"	
b3(E)	156	#5	27'-10"	
b4(E)	138	#6	38'-11"	
b5(E)	69	#5	39'-0"	
b6(E)	16	#8	30'-11"	
b7(E)	8	#8	10'-11"	
b8(E)	8	#8	11'-2"	
b9(E)	16	#8	32'-3"	
b10(E)	4	#8	11'-8"	
b11(E)	4	#8	11'-8"	
b12(E)	16	#5	29'-11"	
b13(E)	8	#5	10'-11"	
b14(E)	8	#5	11'-2"	
b15(E)	16	#5	32'-3"	
b16(E)	4	#5	11'-4"	
b17(E)	4	#5	11'-8"	
c(E)	308	#5	31'-0"	
c1(E)	308	#5	2'-6"	
d(E)	620	#2	4'-5"	L
d1(E)	674	#5	3'-11"	L



Notes: Reinforcement bars designated (e) shall be epoxy coated.  
Cost for Bar Splicers incidental to item Reinforcement Bars Epoxy Coated.  
Work this Sheet with Sht. 57 of S26  
W.P. = Work Point

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DECK PARAPET II  
130TH ST. OVER M.C.R.R. & C.S.S. & S.B.R.R.  
FAI 94 Section 42 (7.1,7.1A, HB-13, SB-9)R-86  
STA. 205 + 45.25  
SCALE: DRAWN BY C.G.R.ESP  
DATE: AUG. 1990 CHECKED BY L.M.

For Information Only

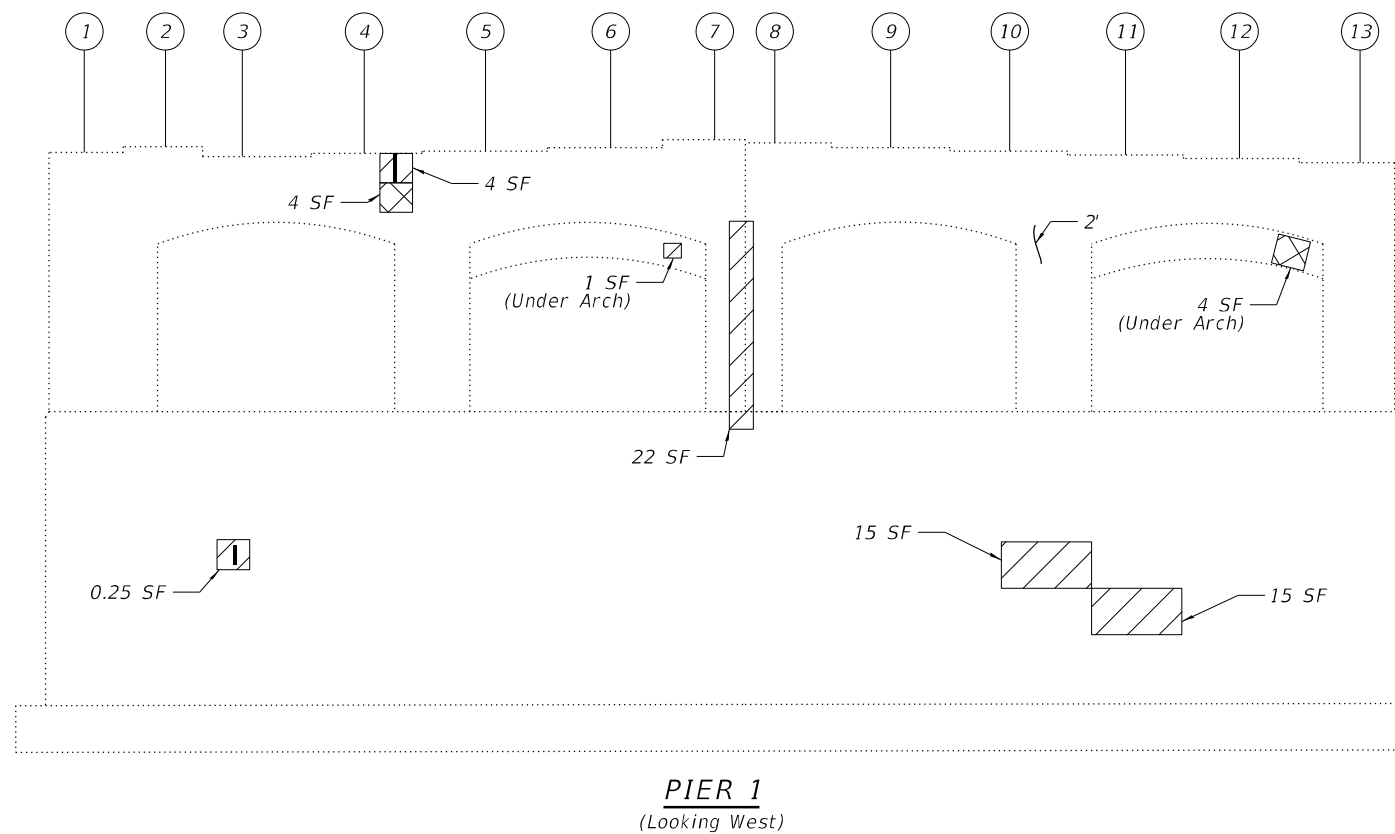
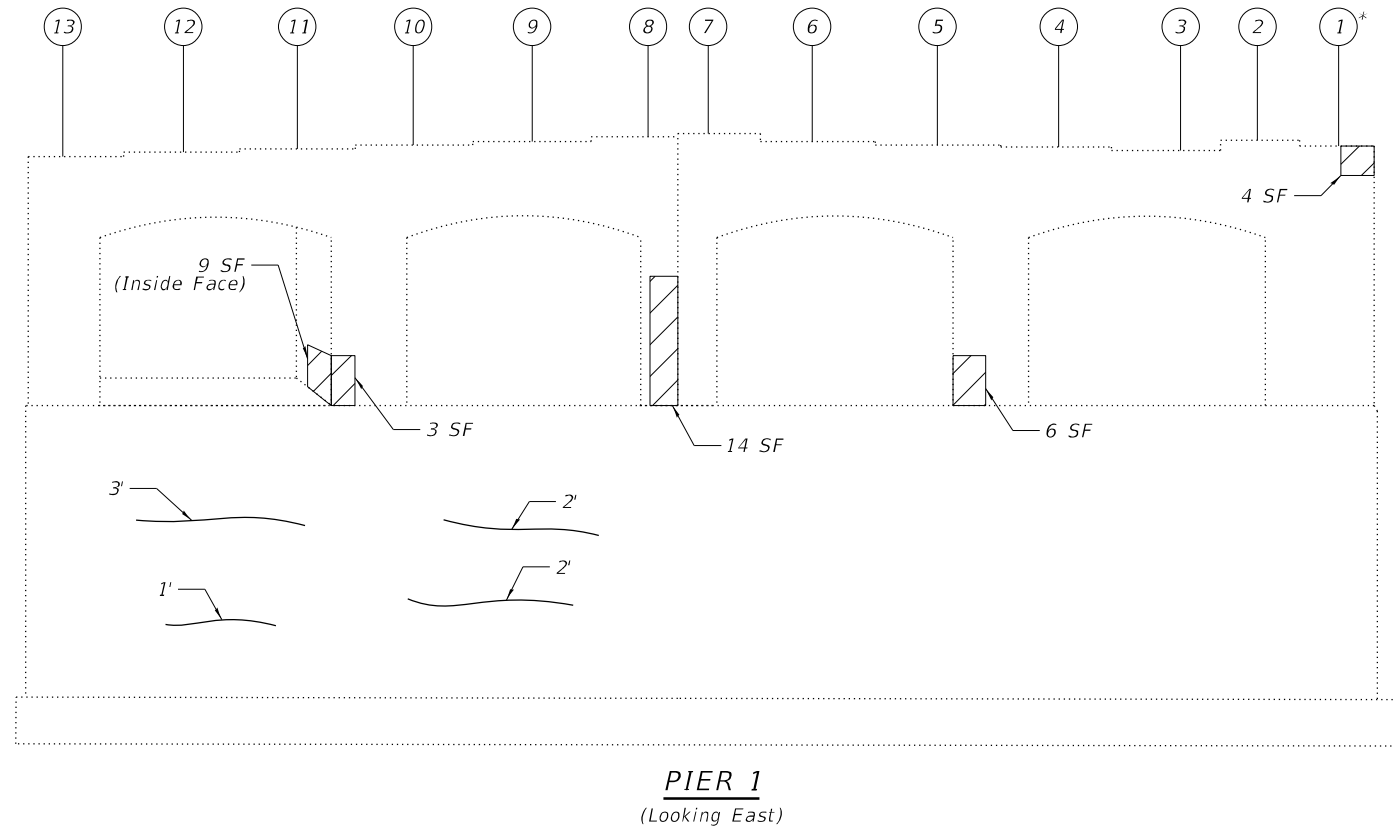
MODEL: 0162434-D62M41-009  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB. 195-016 Phase II Var VanEngineering\WO 2 - 130th at 194-RR1500 Drawings\0162434-D62M41.dgn  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-414-0580  
 www.bowmanconsulting.com

USER NAME =	atiemann	DESIGNED -	AHT	REVISED -	
PLOT SCALE =	2:0 ft/in / in.	CHECKED -	AJN	REVISED -	
PLOT DATE =	3/17/2021	DRAWN -	AHT	REVISED -	
		CHECKED -	AJN	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

JOINTS AND BRIDGE DRAINAGE AS-BUILT PLANS  
130TH ST. BRIDGE OVER RAILROAD - SN 016-2434

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	43
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	



**NOTES:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Prior to removal of concrete, the existing beams over the repair area shall be temporarily supported (See Beam Reaction Table on this sheet and Special Provision for Temporary Shoring and Cribbing).

**BEAM REACTION TABLE**

Pier 1	Load (kips)
DL	70.2
LL	49.3
IM	8.9
<b>Total</b>	<b>128.4</b>

Reactions shown in table are per girder and are Service Loads.

\* Temporary Shoring and Cribbing shall be performed at this bearing location

**LEGEND:**

- Structural Repair of Concrete (Depth Equal to or less than 5")
- Structural Repair of Concrete (Depth Greater than 5")
- Exposed Reinforcement
- Hairline Crack
- SF Square Foot

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq Ft	97.25
Structural Repair of Concrete (Depth Greater Than 5")	Sq Ft	4
Epoxy Crack Injection	Foot	10
Temporary Shoring and Cribbing	Each	1

MODEL: Default  
FILE NAME: C:\Engineering\Live\Projects\2004\_IDOT DUR\_Bowman\WO 2 - 62M41\CADD\CADD\_Sheets\Structure\0162434-62M41-001-Pier\_1.dgn



USER NAME = Imranh	DESIGNED - IH	REVISED -
	CHECKED - SPS	REVISED -
PLOT SCALE =	DRAWN - DM	REVISED -
PLOT DATE = 10/28/2020	CHECKED - JMT	REVISED -

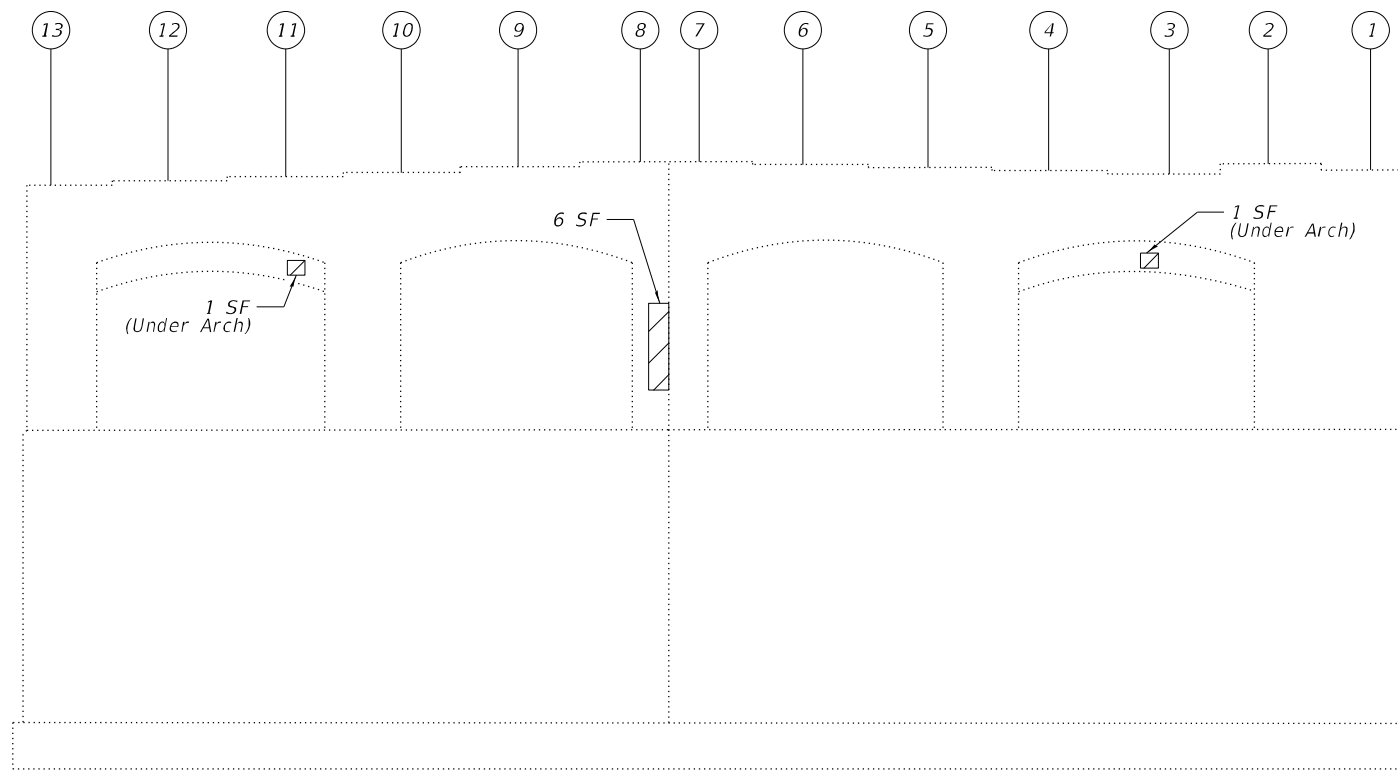
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PIER 1 REPAIRS**  
**STRUCTURE NO. 016-2434**

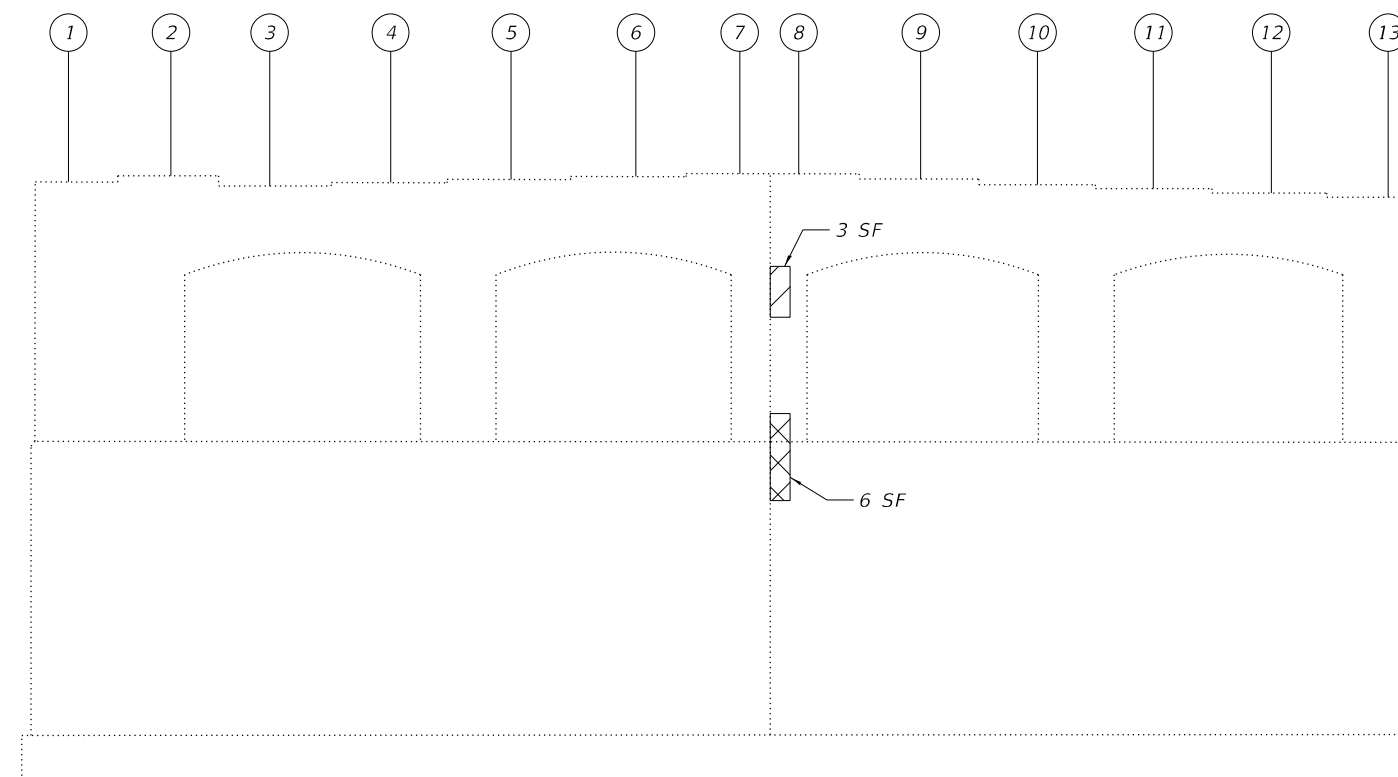
SHEET SA-10 OF SA-14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-135-BR	COOK	83	39
CONTRACT NO. 62M41				
ILLINOIS		FED. AID PROJECT		

SA-10



**PIER 2**  
(Looking East)







**PIER 2**  
(Looking West)

**NOTES:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

**LEGEND:**

-  Structural Repair of Concrete (Depth Equal to or less than 5")
-  Structural Repair of Concrete (Depth Greater than 5")
-  Exposed Reinforcement
-  Hairline Crack
- SF Square Foot

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq Ft	11
Structural Repair of Concrete (Depth Greater Than 5")	Sq Ft	6

MODEL: Default  
FILE NAME: C:\Engineering\Live\Projects\2004\_IDOT DUR\_Bowman\WO 2 - 62M41\CADD\CADD\_Sheets\Structure\0162434-62M41-02-Pier\_2.dgn



USER NAME =	Imranh	DESIGNED -	IH	REVISED -	
		CHECKED -	SPS	REVISED -	
PLOT SCALE =		DRAWN -	DM	REVISED -	
PLOT DATE =	10/28/2020	CHECKED -	JMT	REVISED -	

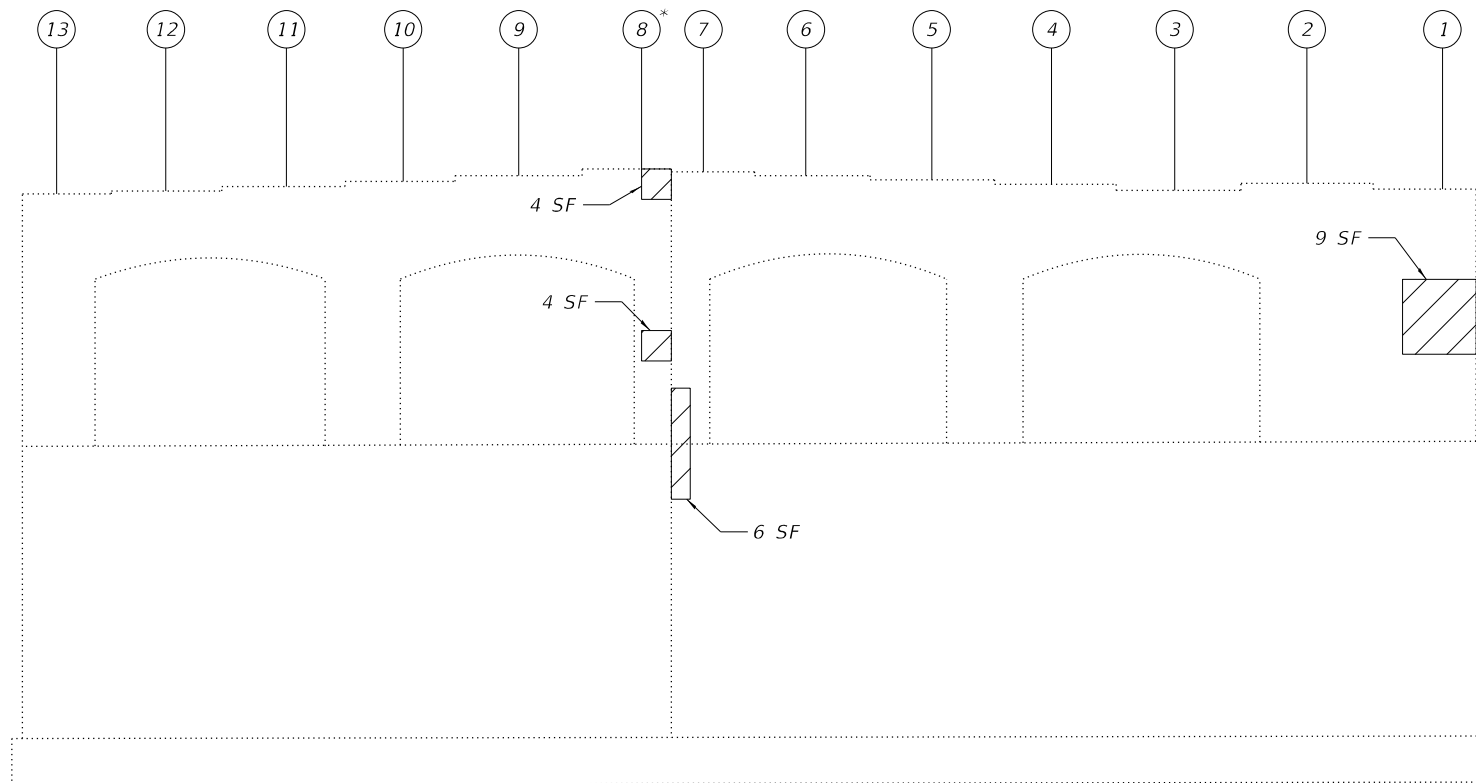
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PIER 2 REPAIRS**  
**STRUCTURE NO. 016-2434**

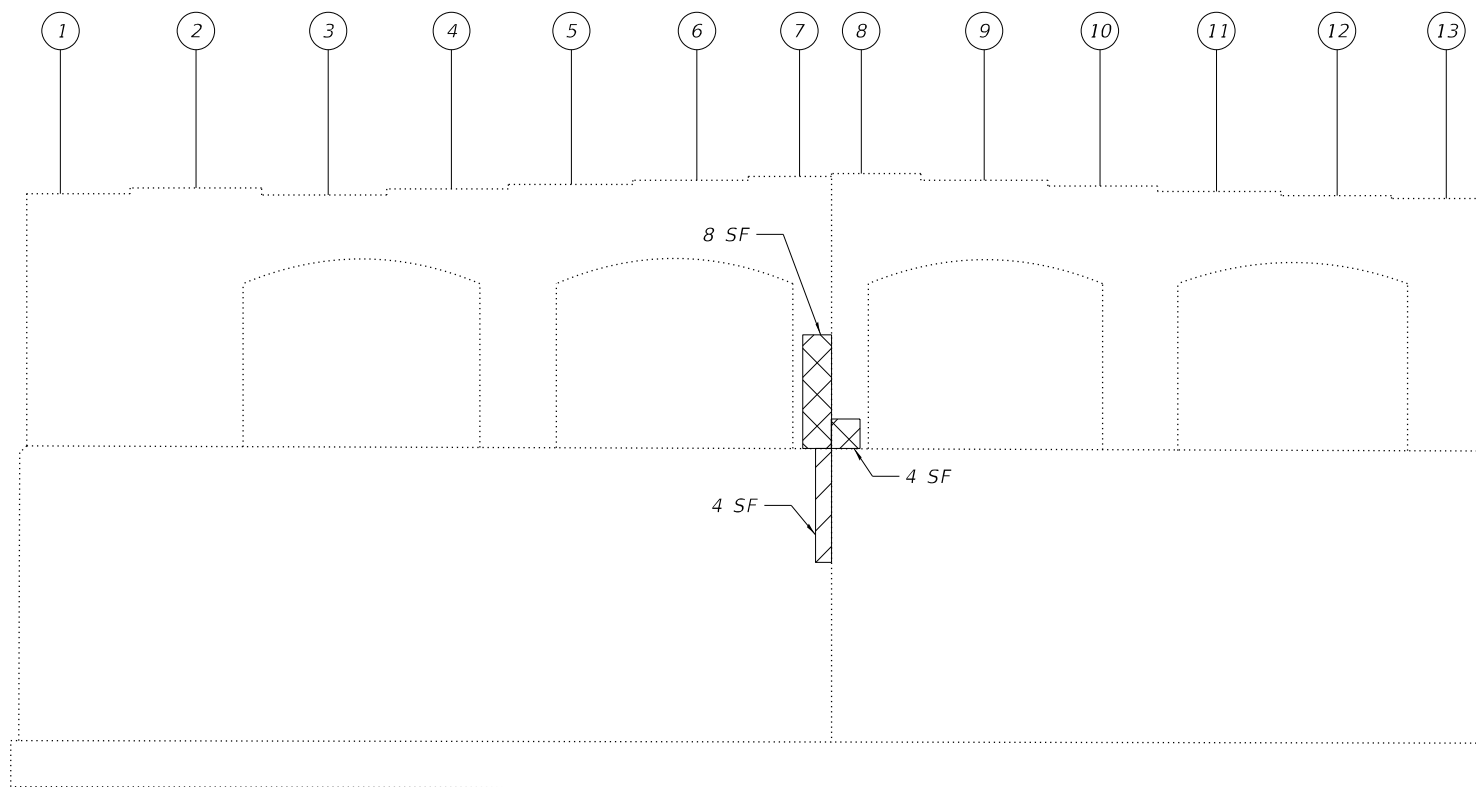
SHEET SA-11 OF SA-14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-135-BR	COOK	83	40
			CONTRACT NO. 62M41	
		ILLINOIS	FED. AID PROJECT	

SA-11



**PIER 3**  
(Looking East)



**PIER 3**  
(Looking West)

**NOTES:**

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Prior to removal of concrete, the existing beams over the repair area shall be temporarily supported (See Beam Reaction Table on this sheet and Special Provision for Temporary Shoring and Cribbing).

**BEAM REACTION TABLE**

Pier 3	Load (kips)
DL	83.3
LL	51.4
IM	9.2
<b>Total</b>	<b>143.9</b>

Reactions shown in table are per girder and are Service Loads.

\* Temporary Shoring and Cribbing shall be performed at this bearing location

**LEGEND:**

- Structural Repair of Concrete (Depth Equal to or less than 5")
- Structural Repair of Concrete (Depth Greater than 5")
- Exposed Reinforcement
- Hairline Crack
- SF Square Foot

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq Ft	27
Structural Repair of Concrete (Depth Greater Than 5")	Sq Ft	12
Temporary Shoring and Cribbing	Each	1

MODEL: Default  
FILE NAME: C:\Engineering\Live\Projects\20004\_DOT DUR\_Bowman\W02 - 62M41\CADD\CADD\_Sheets\Structure\0162434-62M41-003-Pier\_3.dgn



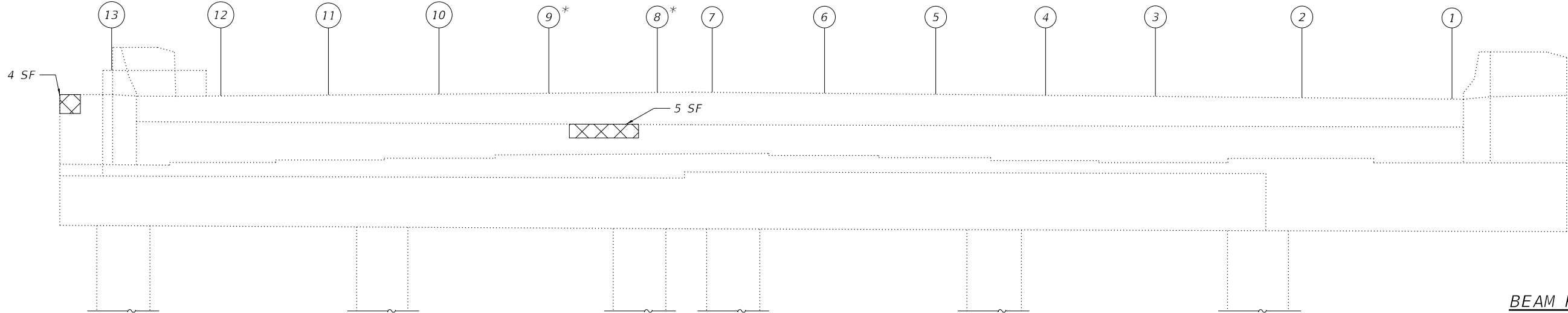
USER NAME =	Imranh	DESIGNED -	IH	REVISED -	
		CHECKED -	SPS	REVISED -	
PLOT SCALE =		DRAWN -	DM	REVISED -	
PLOT DATE =	10/28/2020	CHECKED -	JMT	REVISED -	

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

**PIER 3 REPAIRS**  
**STRUCTURE NO. 016-2434**

SHEET SA-12 OF SA-14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-135-BR	COOK	83	41
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	



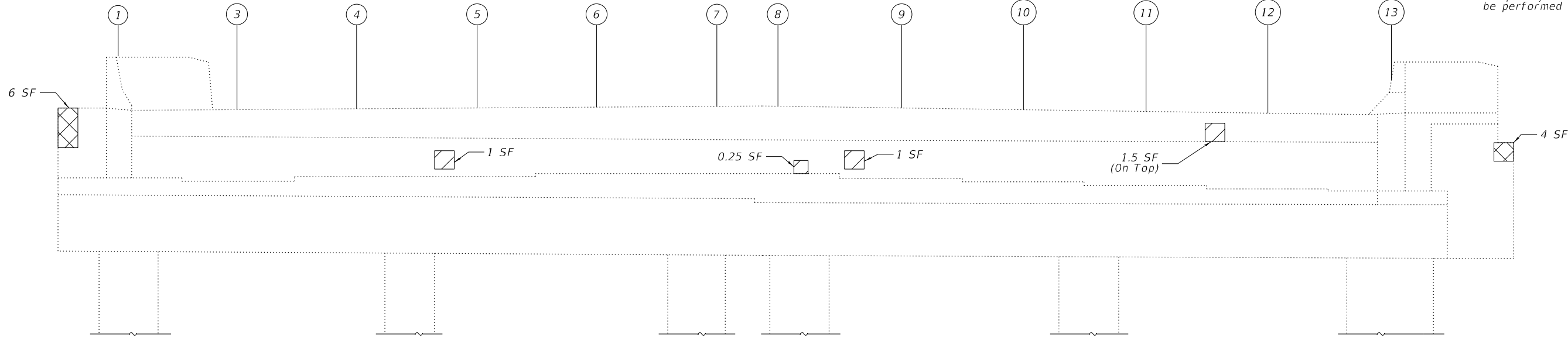
ELEVATION - EAST ABUTMENT

BEAM REACTION TABLE

E. Abut.	Load (kips)
DL	24.7
LL	36.5
IM	9.4
Total	70.6

Reactions shown in table are per girder and are Service Loads.

\* Temporary Shoring and Cribbing shall be performed at this bearing location



ELEVATION - WEST ABUTMENT

NOTES:

- Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
- Prior to removal of concrete, the existing beams over the repair area shall be temporarily supported (See Beam Reaction Table on this sheet and Special Provision for Temporary Shoring and Cribbing).

LEGEND:

- Structural Repair of Concrete (Depth Equal to or less than 5")
- Structural Repair of Concrete (Depth Greater than 5")
- SF Square Foot

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq Ft	3.75
Structural Repair of Concrete (Depth Greater Than 5")	Sq Ft	19
Temporary Shoring and Cribbing	Each	2

MODEL: Default  
FILE NAME: C:\Engineering\Live\Projects\2004\_IDOT DUR\_Bowman\WO 2 - 62M41\CADD\CADD Sheets\Structure\0162434-62M41-004-AbutL.dgn



USER NAME =	Imranh	DESIGNED -	IH	REVISED -	
		CHECKED -	SPS	REVISED -	
PLOT SCALE =		DRAWN -	DM	REVISED -	
PLOT DATE =	10/28/2020	CHECKED -	JMT	REVISED -	

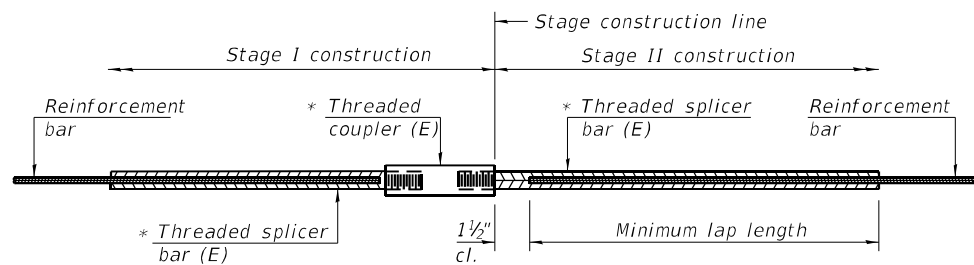
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST AND WEST ABUTMENT REPAIRS  
STRUCTURE NO. 016-2434

SHEET SA-13 OF SA-14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-135-BR	COOK	83	42
CONTRACT NO. 62M41				
ILLINOIS FED. AID PROJECT				

SA-13

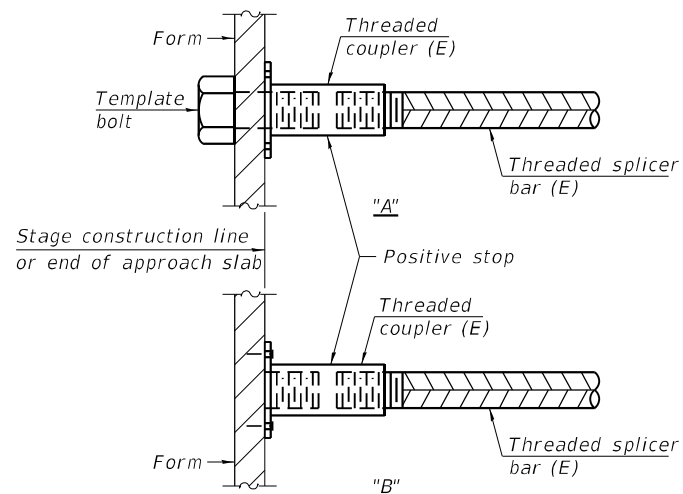


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

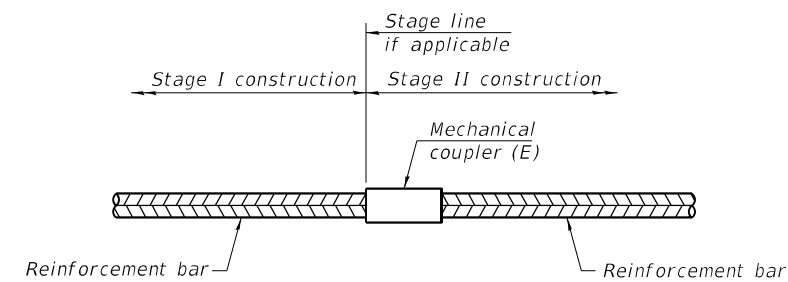
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
W. End of Deck	#5	7	3'-6"
W. Abut. Hatched Block	#6	4	4'-0"
E. End of Deck	#5	7	3'-6"
E. Abut. Hatched Block	#6	4	4'-0"



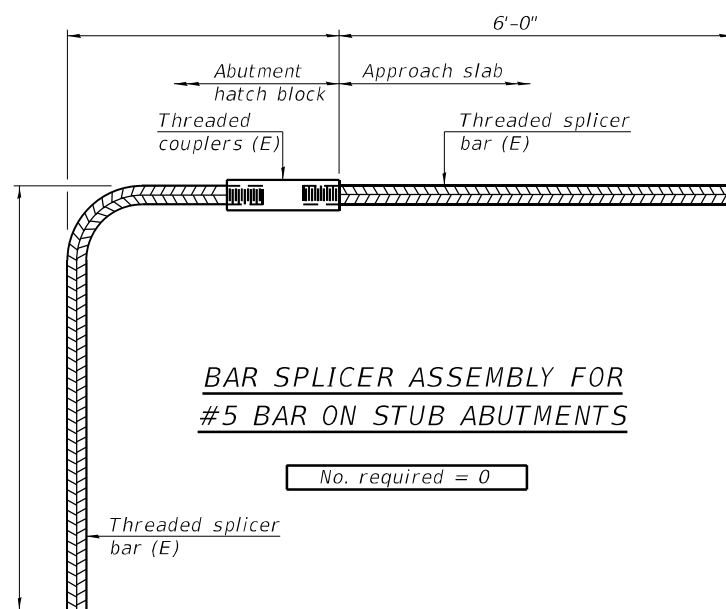
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: 0162434-D62M41-014  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 2 - 130th at 194-RR\1500 Drawings\0162434-D162M41.dgn

BSD-1

2-17-2017



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 2:0 ft:in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

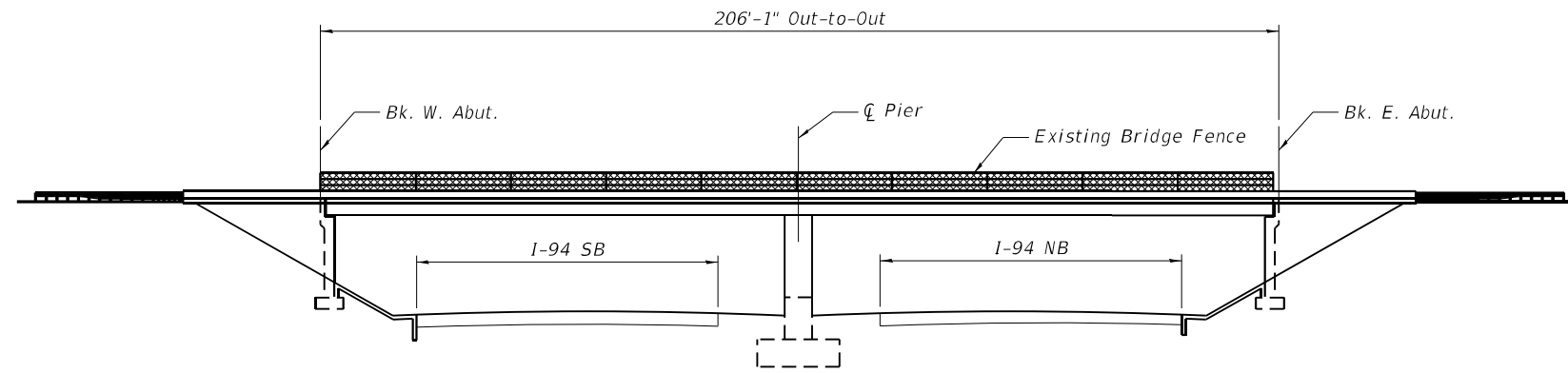
BAR SPLICER ASSEMBLY  
 130TH ST. BRIDGE OVER RAILROAD - SN 016-2434

SHEET SA-14 OF SA-14 SHEETS

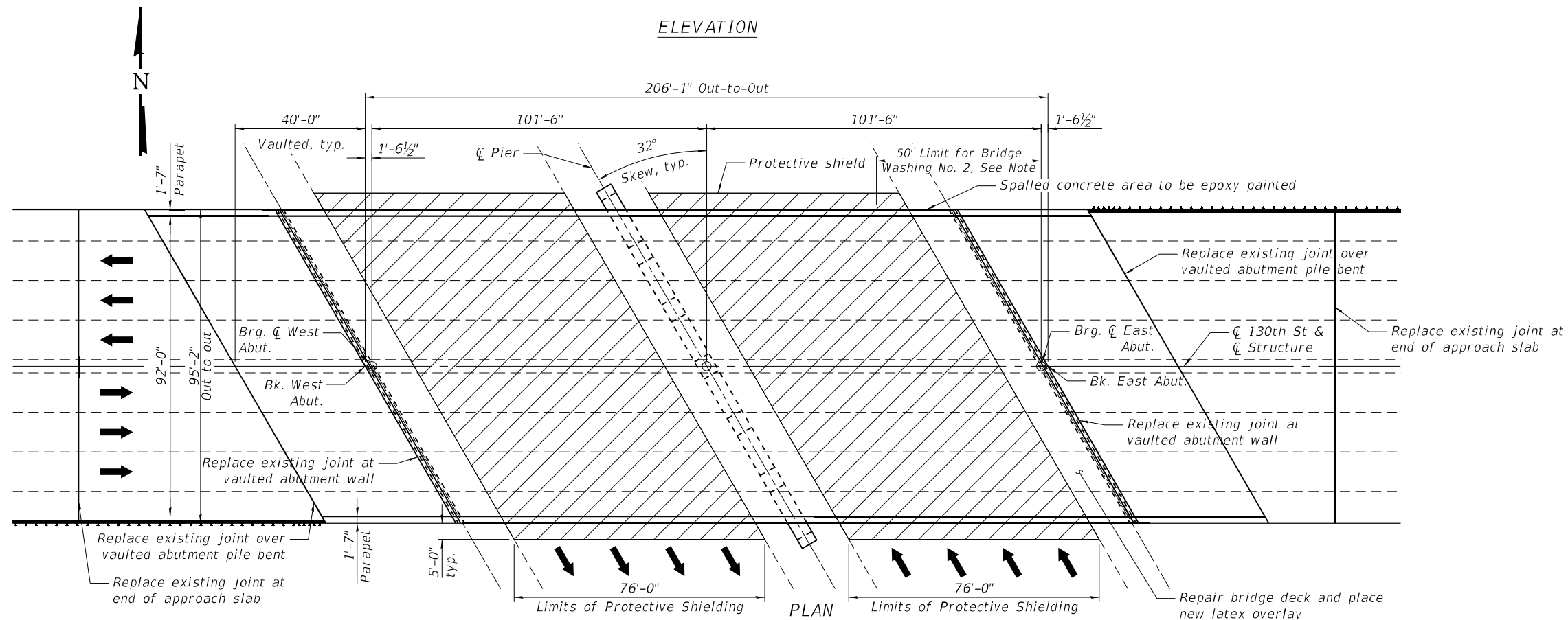
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	48
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	



Existing Structure: S.N. 016-2600, originally built in 1991 as a two-span continuous steel superstructure with vaulted abutments and a multi-column trapezoidal pier. The back to back length = 206'-01" and the out to out width = 95'-2". Structure is to be repaired as detailed in these plans. The structure will be repaired using staged construction to maintain traffic.



ELEVATION



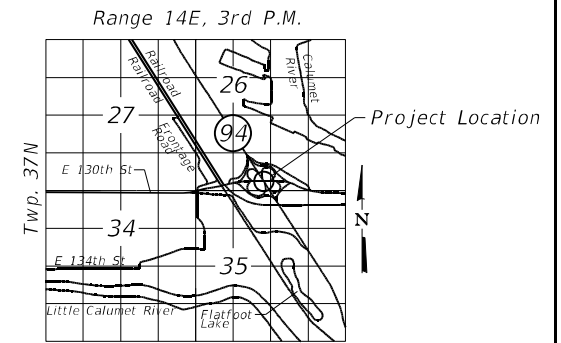
PLAN

INDEX OF SHEETS

- SB-1 General Plan and Elevation
- SB-2 General Notes & Bill of Material
- SB-3 Maintenance of Traffic Details
- SB-4 Deck & Approach Slabs Repairs and Overlay Plans
- SB-5 Joint Repair Limits
- SB-6 Expansion Joint Details
- SB-7 Preformed Joint Strip Seal
- SB-8 Joints and Bridge Drainage As-Built Plans
- SB-9 Bearing Replacement Locations
- SB-10 New Bearing Details
- SB-11 Bearing Details - As-Built Plans
- SB-12 Parapet Repair
- SB-13 Fence Rail Repair - As-Built Plans
- SB-14 East Abutment Repair
- SB-15 West Abutment Repair
- SB-15A Vaulted Abutment Door Detail
- SB-16 Pier Repair and New Crash Wall
- SB-17 Bar Splicer Assembly Details

SCOPE OF WORK

1. Replace expansion joints at locations shown on plans
2. Deck Scarification and Latex Concrete Overlay
3. Deck slab full and partial depth repair
4. Approach slabs full and partial depth repair
5. Pedestrian handrail repair
6. Remove and replace bearings at abutments at locations shown on plans
7. Remove and replace Access Doors at both abutments.
8. Concrete repair of pier and abutments
9. Pier crash wall modifications
10. Replace relief joints
11. Clean bridge scuppers
12. Concrete sealer for bridge substructure, parapets and median
13. Clean fire damaged area
14. Apply Epoxy Paint to fire damaged concrete



LOCATION SKETCH

DESIGN STRESSES

FIELD UNITS (EXIST. CONST.)

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi  
 $f_y = 50,000$  psi M223 Gr.50 & M222  
 $f_y = 36,000$  psi M183

FIELD UNITS (NEW CONST.)

$f'_c = 4,000$  psi (Superstructure)  
 $f'_c = 3,500$  psi (Substructure)  
 $f_y = 60,000$  psi (Reinforcement)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS20-44

Existing and Proposed

Note

Area to be washed under Bridge Washing No. 2 will include beams 1 & 2 and the deck soffit area in bay 1 as well as the outside face of the parapet. This area extends to a point about 50LF West of the East Abutment in span 2 over the NB lanes.



Arthur Nishi

SIGNED: 03/18/2021 EXPIRES: 11/30/2022

GENERAL PLAN AND ELEVATION  
 130TH ST. OVER I-94 BISHOP FORD  
 SECTION 2020-153-BR  
 COOK COUNTY  
 STRUCTURE NO. 016-2600

MODEL: 0162600-D62M41-001  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 2 - 130th at 194-RR1500 Drawings\0162600-D62M41.dgn  
 3/17/2021 9:34:21 AM



USER NAME =	atiemann	DESIGNED -	AHT	REVISED -	
		CHECKED -	AJN	REVISED -	
PLOT SCALE =	40:0 ft/in / in.	DRAWN -	AHT	REVISED -	
PLOT DATE =	3/17/2021	CHECKED -	AJN	REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
 130TH ST. BRIDGE OVER I-94 - SN 016-2600  
 SHEET SB-01 OF SB-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	49
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

SB-1

**GENERAL NOTES**

No field welding is permitted except as specified in the contract documents.

Concrete Sealer shall be applied to all faces of the pier, front face of both abutments, slopewalls, bearing seats, backwalls and above the ground line. Concrete Sealer shall also be applied to front and top face of bridge parapets and entire surface of the median between the ends of the bridge approach slabs.

Protective Coat shall be applied to the new concrete joint headings, including new overlay.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

**CONSTRUCTION**

- The contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
- Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustment prior to construction of or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work. However, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- No concrete cutting shall be permitted until the cutting limits have been outlined by the contractor and approved by the engineer.
- The location and extent of repair items are based on visual observation made during field investigations, and are not guaranteed to be accurate or all inclusive. The location, extent of repair, and quantity or repair shall be field verified by the field engineer.
- Whenever any material is deposited into a drainage system or drainage structures, the deposited material shall be removed at the close of each working day. At the conclusion of construction operations, all drainage systems and structures shall be free from dirt and debris deposited during the various construction operations. The work specified above will not be paid for separately, but shall be considered included in the cost of "Drainage Structures to be Cleaned".
- It shall be the contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
- The end diaphragms shall not be used for jacking purposes during temporary cribbing and shoring operations unless checked and verified by an Illinois Licensed Structural Engineer.

**TOTAL BILL OF MATERIAL**

Item No.	Description	Unit	Super	Sub	Total
50102400	Concrete Removal	Cu. Yd.	29.2	-	29.2
50157300	Protective Shield	Sq. Yd.	2,078	-	2,078
50300225	Concrete Structures	Cu. Yd.	-	19.1	19.1
50300255	Concrete Superstructure	Cu. Yd.	29.2	-	29.2
50300260	Bridge Deck Grooving	Sq. Yd.	3,932	-	3,932
50300300	Protective Coat	Sq. Yd.	4,094	-	4,094
50800205	Reinforcement Bars, Epoxy Coated	Pound	3,480	1,910	5,390
50800515	Bar Splicers	Each	22	-	22
52000110	Preformed Joint Strip Seal	Foot	226.0	-	226.0
52100010	Elastomeric Bearing Assembly, Type 1	Each	4	-	4
58700300	Concrete Sealer	Sq. Ft.	3,403	6,925	10,328
59000200	Epoxy Crack Injection	Foot	40.0	-	40.0
59200102	Bridge Washing No. 2	Each	1	-	1
X0323818	Cleaning and Painting Exposed Rebar	Sq. Ft.	24	-	24
X0327773	Access Door	Each	-	2	2
X8430100	Remove Existing Conduit Attached To Structure	Foot	-	612.5	612.5
Z0001700	Approach Slab Repair (Full Depth)	Sq. Yd.	20.2	-	20.2
Z0001899	Jack and Remove Existing Bearings	Each	4	-	4
Z0005874	Bonded Preformed Joint Sealer, 3 Inch	Foot	190.4	-	190.4
Z0006012	Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq. Yd.	4,012	-	4,012
Z0012130	Bridge Deck Scarification 3/4"	Sq. Yd.	3,240	-	3,240
Z0012142	Bridge Deck Scarification 2 1/4"	Sq. Yd.	772	-	772
Z0012754	Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	17.5	711.8	729.3
Z0012755	Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	33.5	97	130.5
Z0016001	Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.5	-	0.5
Z0016002	Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	10.9	-	10.9
Z0018500	Drainage Structures to be Cleaned	Each	4	-	4
Z0021902	Silicone Joint Sealer, 1/2"	Foot	226.0	-	226.0
Z0029603	Handrail Repairs	L SUM	1	-	1
Z0073200	Temporary Shoring and Cribbing	Each	4	-	4

MODEL: 0162600-D62M41-002  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 02 - 130th at 194+RRV500 Drawings\501\_CADD Drawings\0162600-D-162M41.dgn

**Bowman CONSULTING**  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-414-0580  
 www.bowmanconsulting.com

USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 2:0 ft:in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

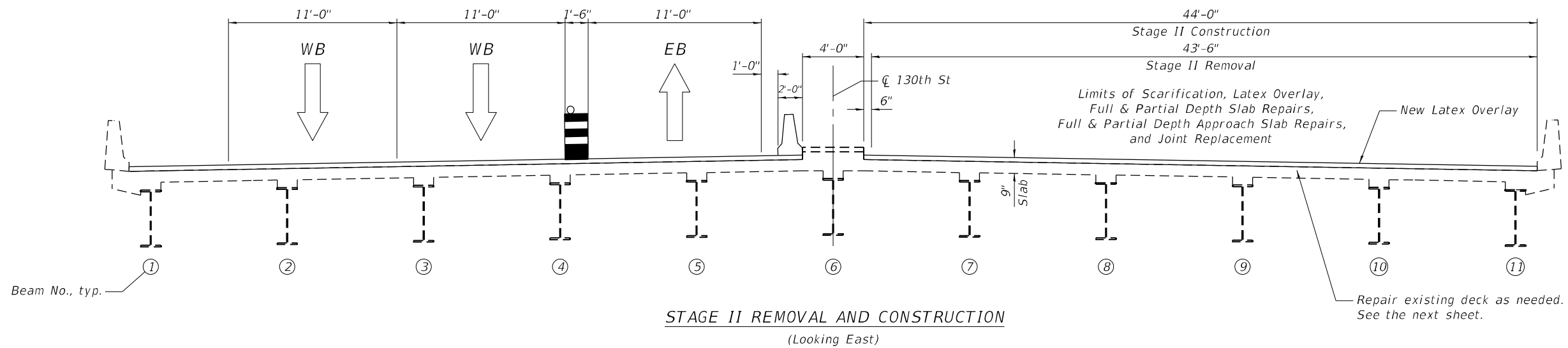
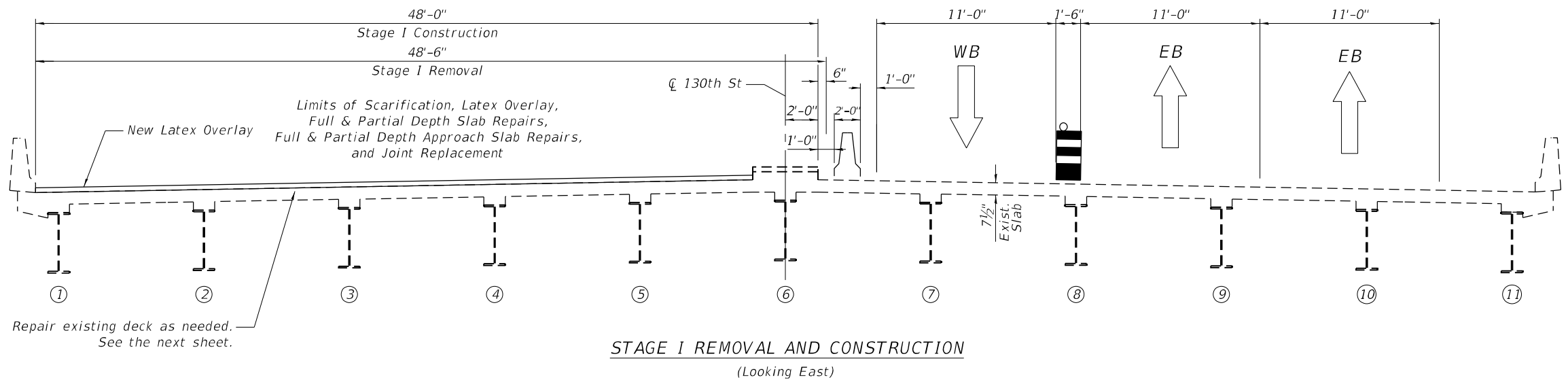
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND BILL OF MATERIAL  
 130TH ST. BRIDGE OVER I-94 - SN 016-2600**

SHEET SB-02 OF SB-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	50
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

SB-2



MODEL: 0162600-D62M41-003  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 2 - 130th at 194-RR\1500 Drawings\501\_CADD Drawings\0162600-D162M41.dgn

**Bowman CONSULTING**  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-414-0580  
 www.bowmanconsulting.com

USER NAME = atiemann	DESIGNED - AHT	REVISED -
CHECKED - AJN	REVISIED -	
PLOT SCALE = 40:0 ft/in / in.	DRAWN - AHT	REVISED -
PLOT DATE = 3/17/2021	CHECKED - AJN	REVISED -

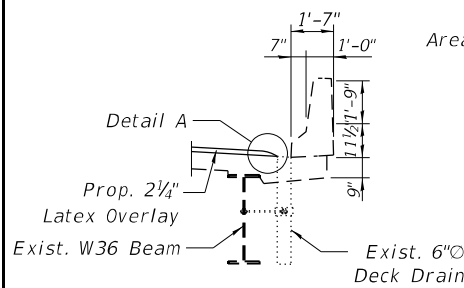
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC DETAILS  
130TH ST. BRIDGE OVER I-94 - SN 016-2600**

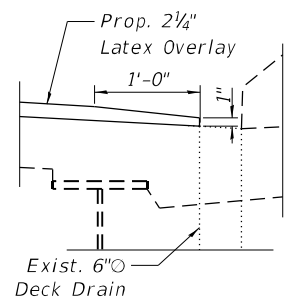
SHEET SB-03 OF SB-17 SHEETS

F.A.P. RTE. 0344	SECTION 2020-153-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

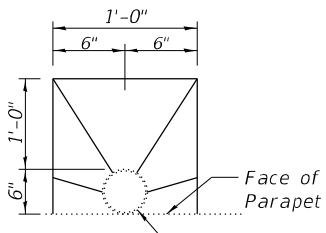
MODEL: 0162600-D62M41-004  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var VanEngineering\WO 02 - 130th at 194+RRV500 Drawings\501 CADD Drawings\0162600-D162M41.dgn  
 3/17/2021 4:54:20 PM



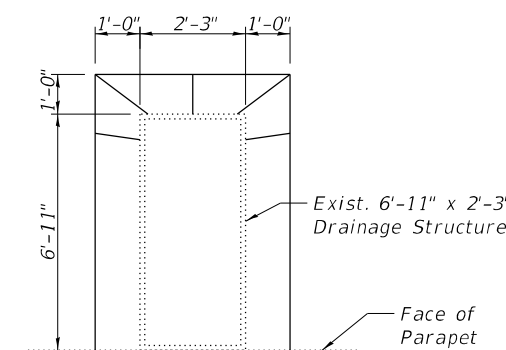
**SECTION AT DECK DRAIN**



**DETAIL A**

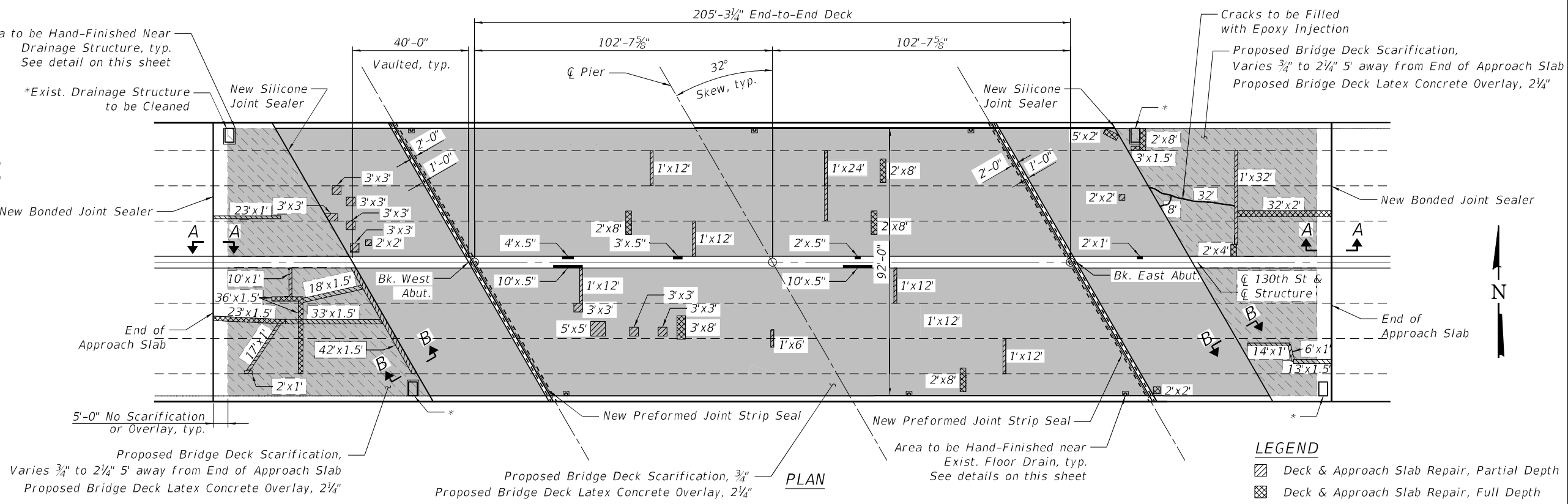


**TOP PLAN AT FLOOR DRAIN**  
(for drainage adjustment)



**TOP PLAN AT DRAINAGE STRUCTURE**  
(for drainage adjustment)

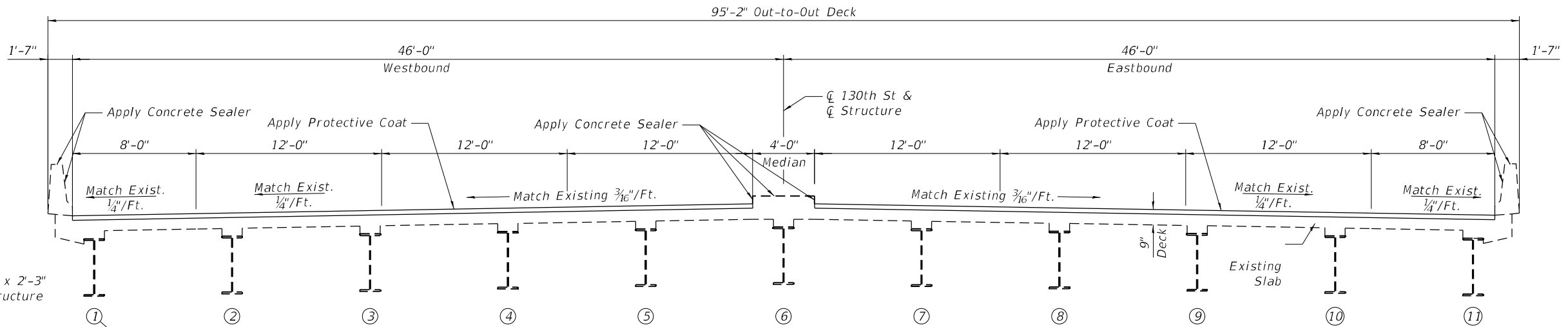
- Notes:**
- All drainage structures and floor drains must be protected during concrete scarification and overlay placement operations.
  - Use of hand tools is required while working around drainage structures and floor drains.
  - Hand finish of overlay material is required around drainage structures and floor drains. The cost is included in the Latex Concrete Overlay, 2 1/4 inch.
  - Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.



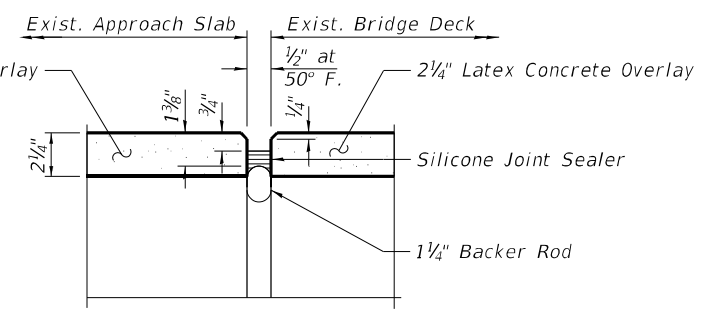
**PLAN**

**LEGEND**

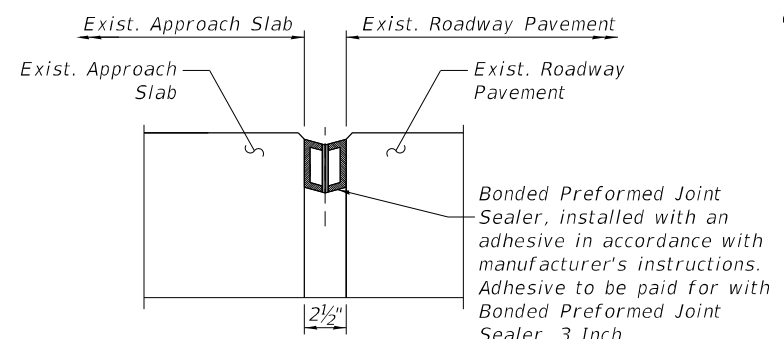
- Deck & Approach Slab Repair, Partial Depth
- Deck & Approach Slab Repair, Full Depth
- SRC >5" (Median)
- Variable Depth Scarification



**CROSS SECTION**  
(Looking East)



**SECTION B-B**



**SECTION A-A**

\*\*Scarification depth of the bridge approach slabs will vary from 2 1/4 inch near the end of the approach slabs, to 3/4 inch near the vaulted abutment pile bent. See Scarification and Overlay Transition Detail on sheet SB-6.

**BILL OF MATERIAL**

Item	Unit	Total
Bridge Deck Grooving	Sq. Yd.	3,932
Protective Coat	Sq. Yd.	4,094
Approach Slab Repair (Full Depth)	Sq. Yd.	20.2
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	Sq. Yd.	4,012
Bridge Deck Scarification, 3/4 inch	Sq. Yd.	3,240
Bridge Deck Scarification, 2 1/4 inch	Sq. Yd.	772
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	0.5
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	10.9
Protective Shield	Sq. Yd.	2,078
Concrete Sealer	Sq. Ft.	10,328



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 40:0 ft/in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

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

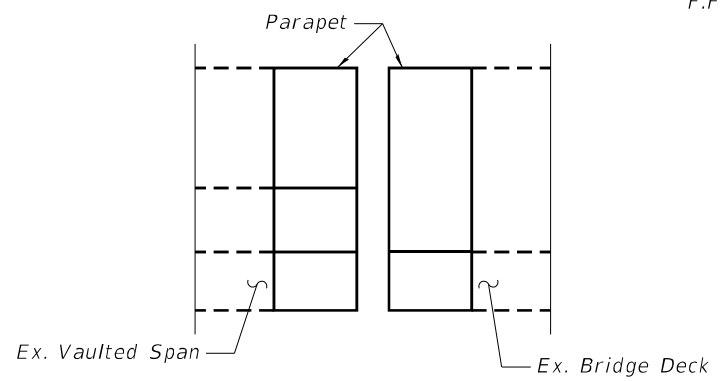
**DECK AND APPROACH SLABS REPAIRS AND OVERLAY PLANS**  
**130TH ST. BRIDGE OVER I-94 - SN 016-2600**

F.A.P. RTE. = 0344	SECTION = 2020-153-BR	COUNTY = COOK	TOTAL SHEETS = 85	SHEET NO. = 52
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

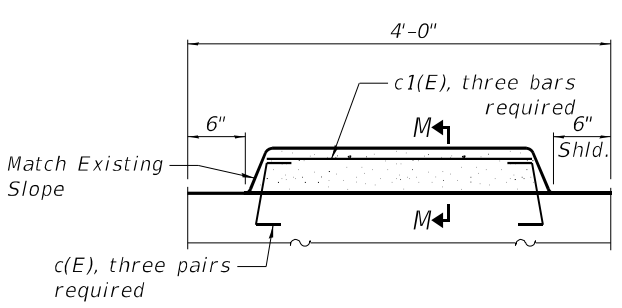
SHEET SB-04 OF SB-17 SHEETS

SB-4

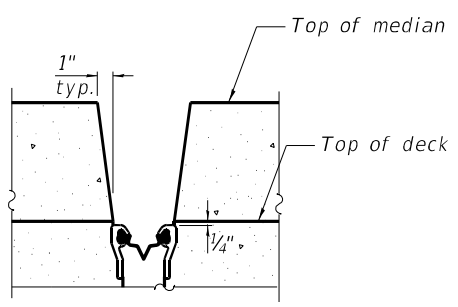
MODEL: 0162600-D62M41-006  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var VanEngineering\WO 02 - 130th at 194+RRV500 Drawings\501 CADD Drawings\0162600-D162M41.dgn  
 3/17/2021 4:54:21 PM



VIEW L-L



MEDIAN REINFORCEMENT DETAIL



SECTION M-M  
(at Rt. L's)

Notes:

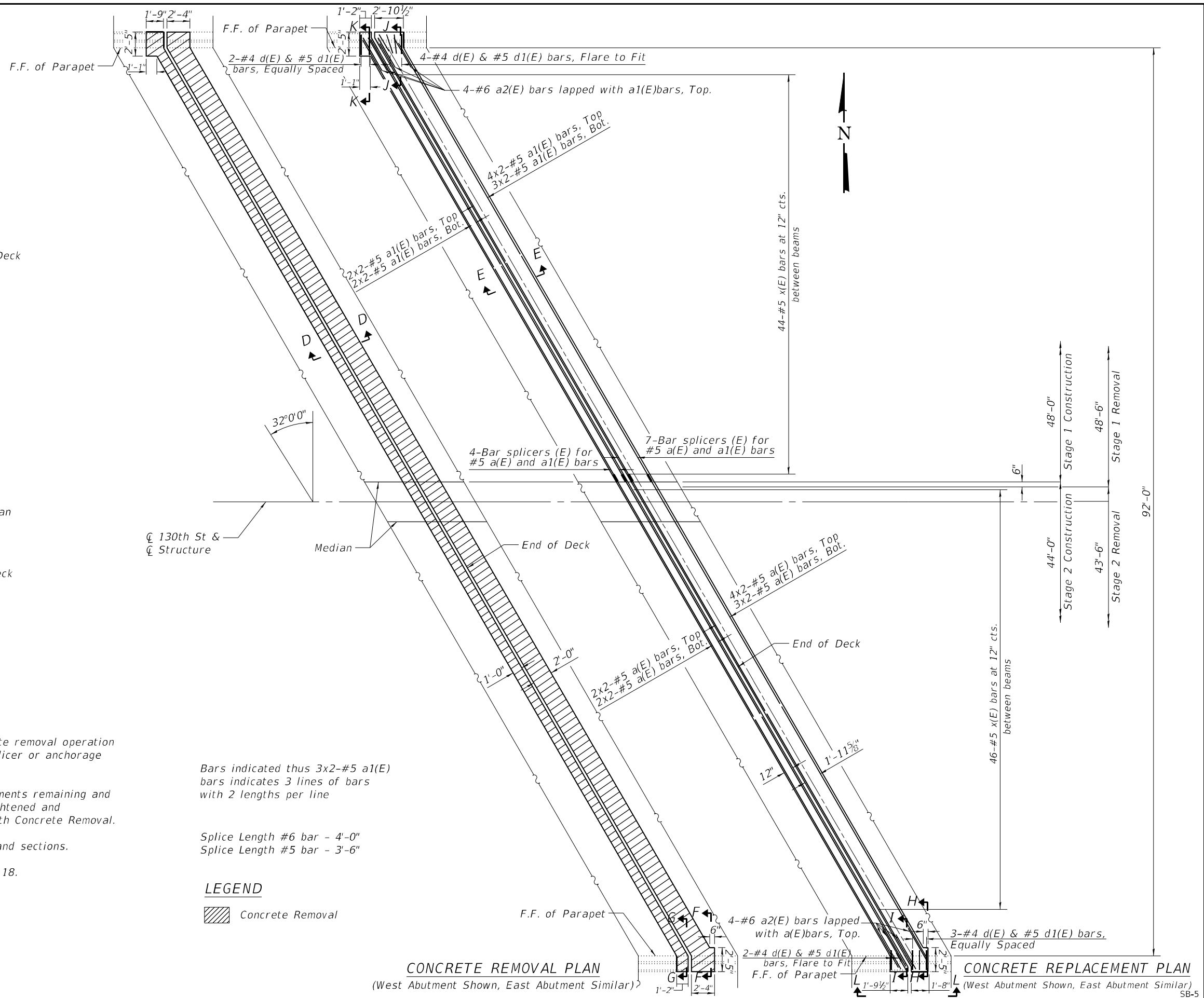
- Any reinforcement bars that are damaged during concrete removal operation shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- Existing transverse, longitudinal, and vertical reinforcements remaining and extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.
- See Sheet SB-6 of 18 for Bill of Material, bar details and sections.
- For Overlay details see cross section on sheet SB-4 of 18.
- See Sheet SB-7 of 18 for joint seal details.
- See Sheet SB-18 of 18 for Bar Splicer details.

Bars indicated thus 3x2-#5 a1(E) bars indicates 3 lines of bars with 2 lengths per line

Splice Length #6 bar - 4'-0"  
 Splice Length #5 bar - 3'-6"

LEGEND

Concrete Removal



CONCRETE REMOVAL PLAN  
(West Abutment Shown, East Abutment Similar)

CONCRETE REPLACEMENT PLAN  
(West Abutment Shown, East Abutment Similar)



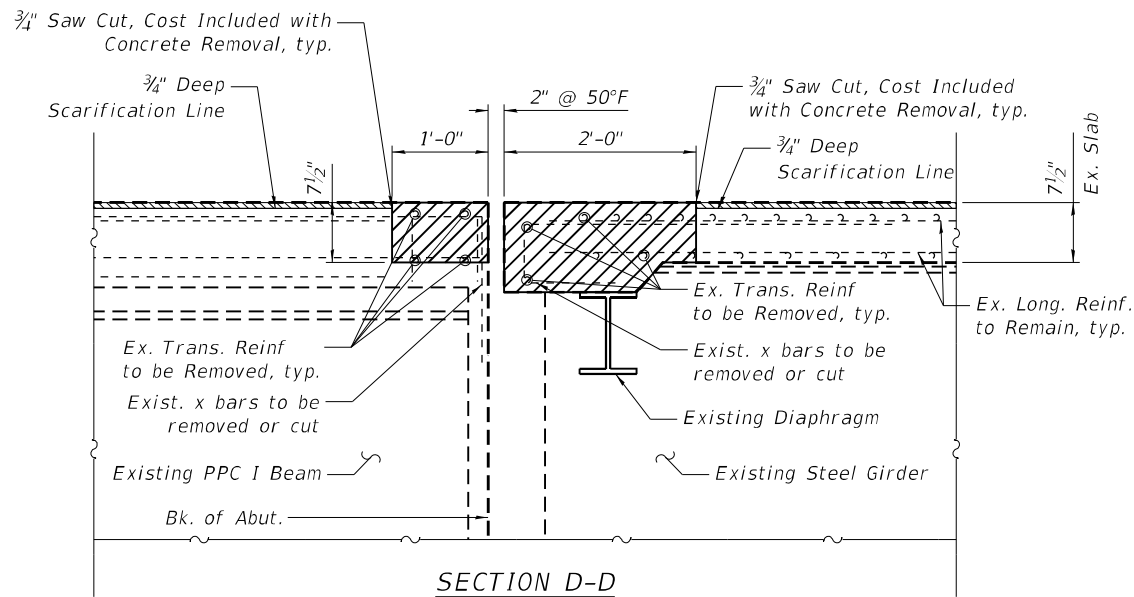
USER NAME = atiemann	DESIGNED - AHT	REVISOR -
CHECKED - AJN	REVISIONS -	
PLOT SCALE = 10:0 ft.in / in.	DRAWN - AHT	REVISIONS -
PLOT DATE = 3/17/2021	CHECKED - AJN	REVISIONS -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

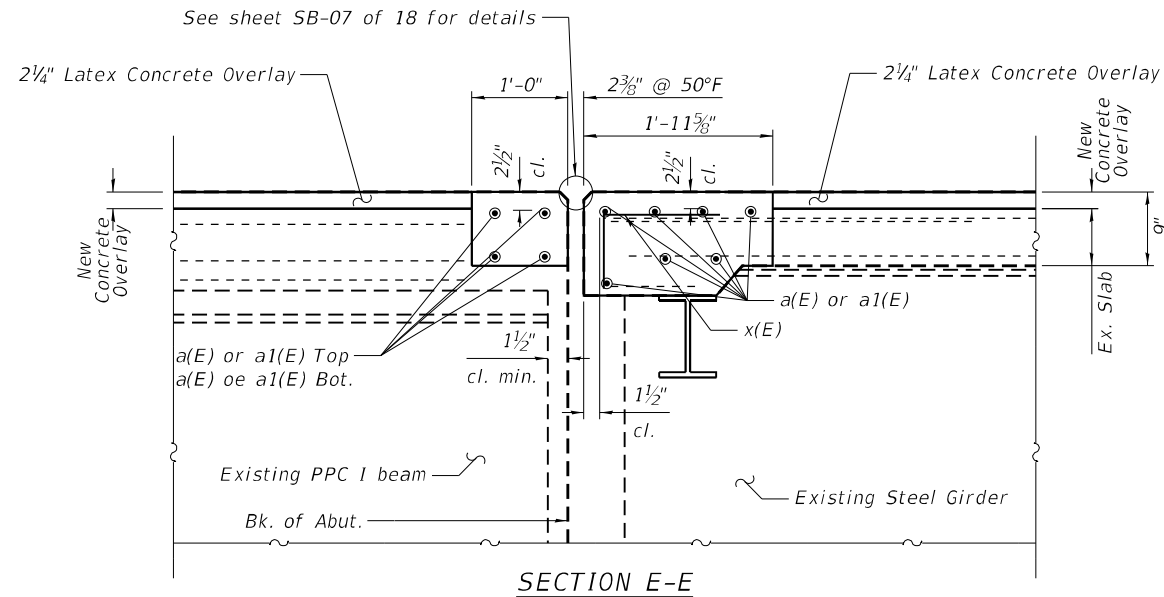
JOINT REPAIR LIMITS  
 130TH ST. BRIDGE OVER I-94 - SN 016-2600

SHEET SB-05 OF SB-17 SHEETS

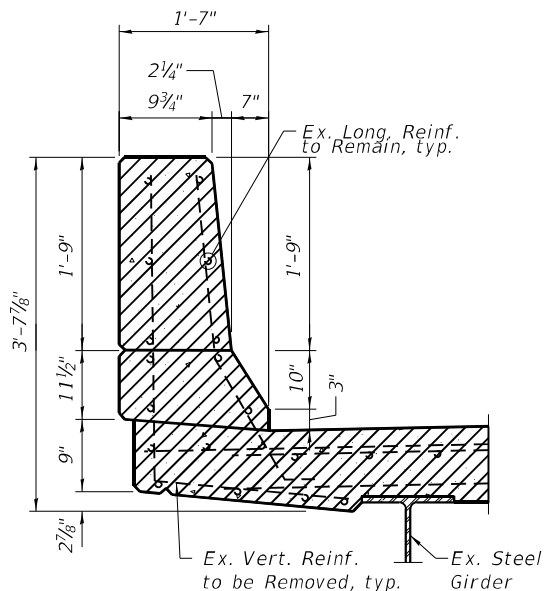
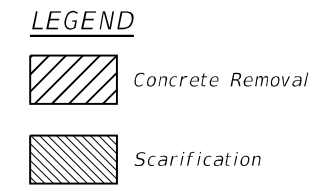
F.A.P. RTE. 0344	SECTION 2020-153-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 53
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	



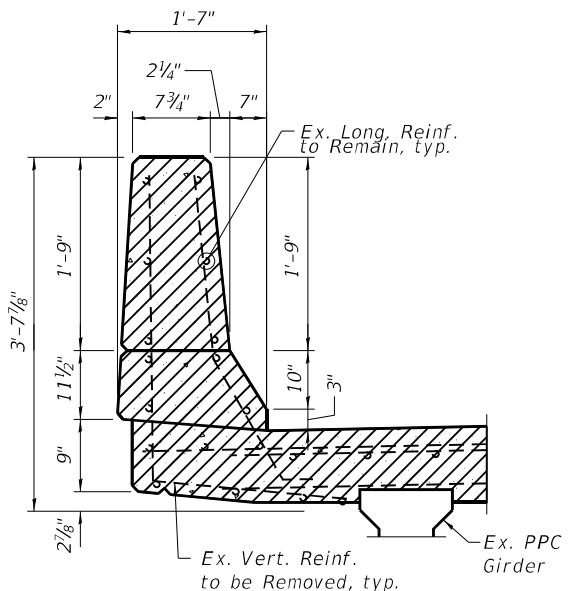
**SECTION D-D**  
(Dim. @ Rt. L's)



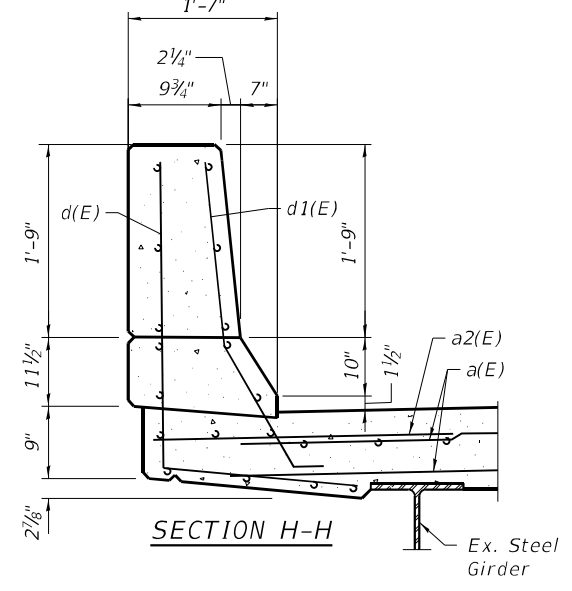
**SECTION E-E**  
(Dim. @ Rt. L's)



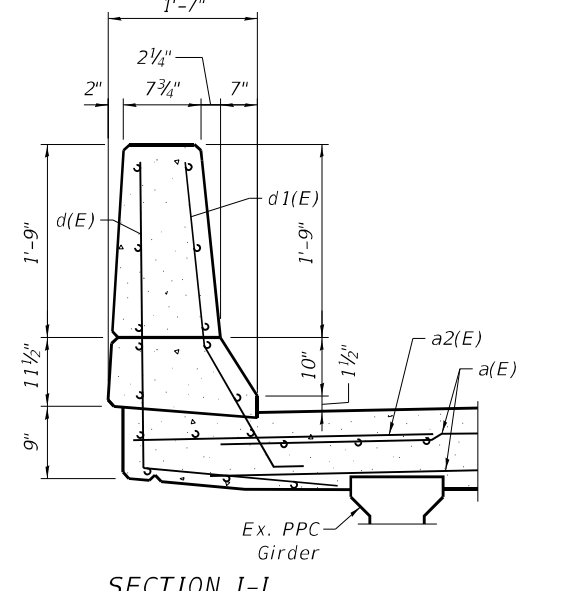
**SECTION F-F**



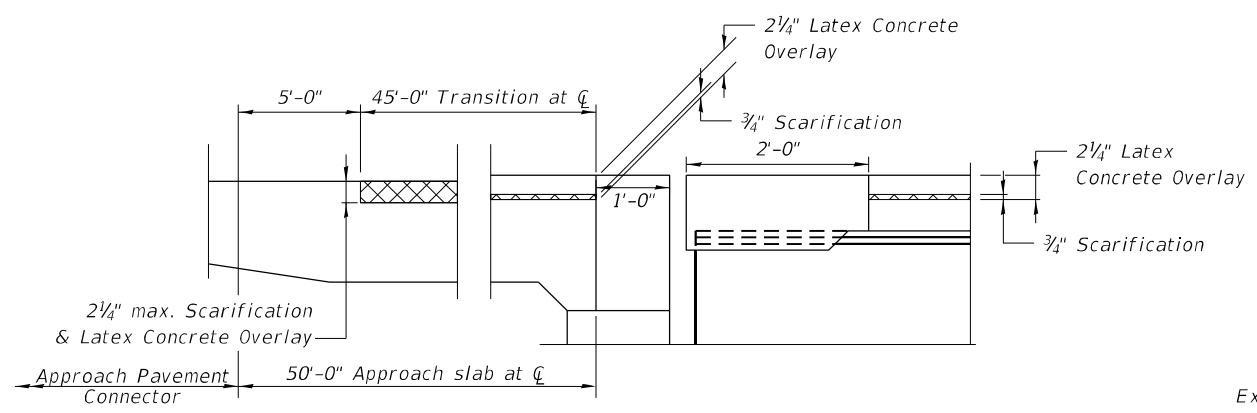
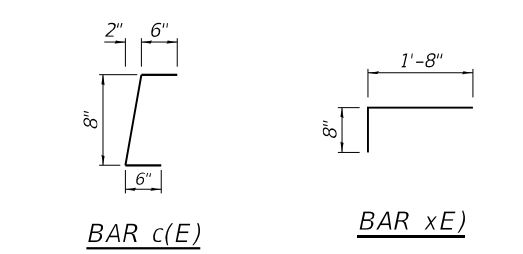
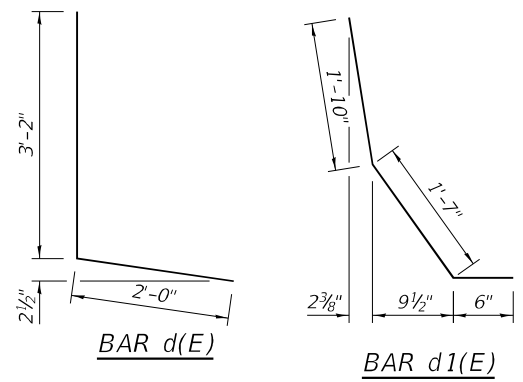
**SECTION G-G**



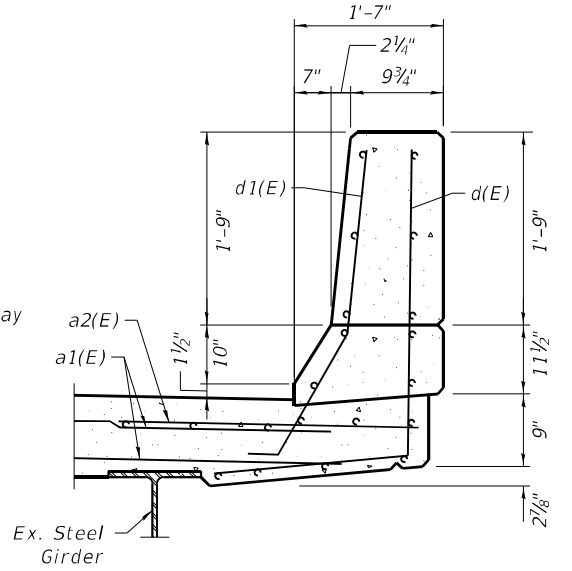
**SECTION H-H**



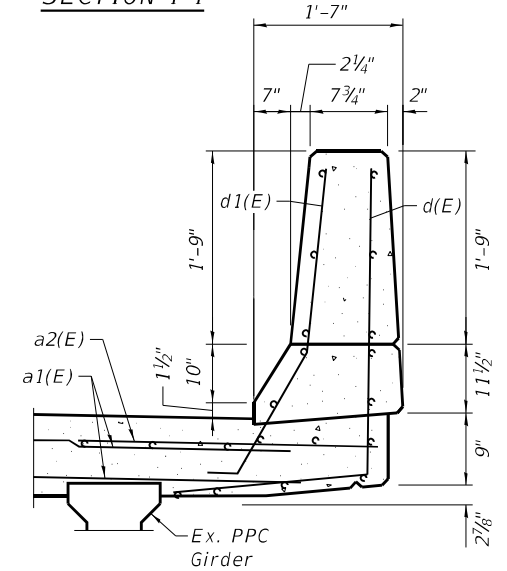
**SECTION I-I**



**SCARIFICATION & OVERLAY TRANSITION DETAIL**



**SECTION J-J**



**SECTION K-K**

**BILL OF MATERIALS**

Bar	No.	Size	Length	Shape
a(E)	44	#5	31'-2"	—
a1(E)	44	#5	29'-0"	—
a2(E)	16	#6	4'-0"	—
c(E)	8	#5	1'-8"	┌
c1(E)	4	#5	2'-8"	—
d(E)	22	#4	5'-2"	┌
d1(E)	22	#5	3'-11"	┌
x(E)	180	#5	2'-4"	┌
<b>Item</b>				
			<b>Unit</b>	<b>Total</b>
Concrete Removal			Cu. Yd.	29.2
Concrete Superstructure			Cu. Yd.	29.2
Reinforcement Bars, Epoxy Coated			Pound	3,480
Bar Splicers			Each	22

MODEL: 0162600-D62M41-007  
 FILE NAME: P:\040058-01-002 (ENG) - PTB\_195-016 Phase II Var.VanEngineering\WO 02 - 130th at I94-RRV500 Drawings\501\_CADD Drawings\0162600-D62M41.dgn  
 317/2021 4:54:22 PM



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 2:0 ft:in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

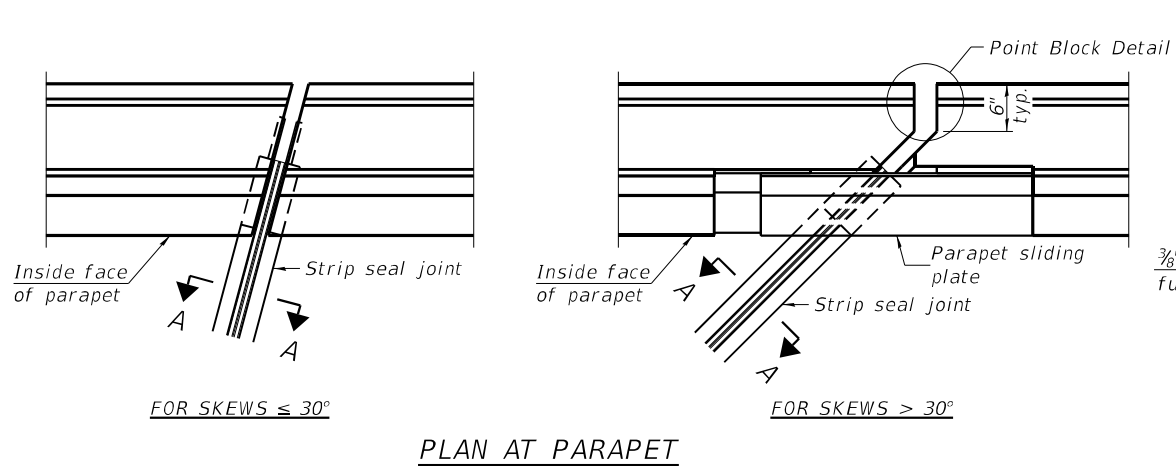
**EXPANSION JOINT DETAILS  
130TH ST. BRIDGE OVER I-94 - SN 016-2600**

SHEET SB-06 OF SB-17 SHEETS

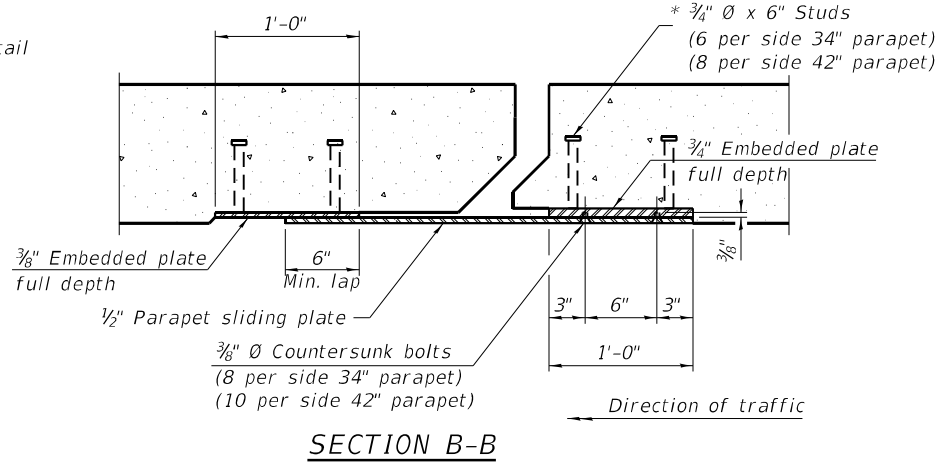
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	54
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

SB-6

MODEL: 0162600-D62M41-008  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var.VanEngineering\WO 2 - 130th at 194-RR\1500 Drawings\0162600-D62M41.dgn  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-414-0580  
 www.bowmanconsulting.com

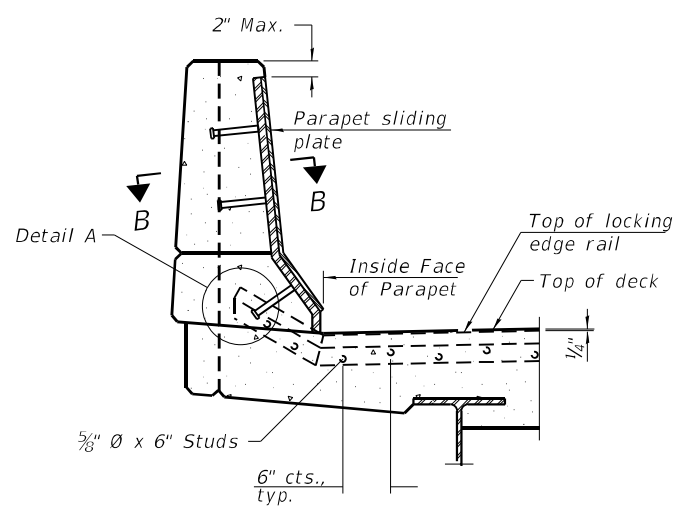


**PLAN AT PARAPET**



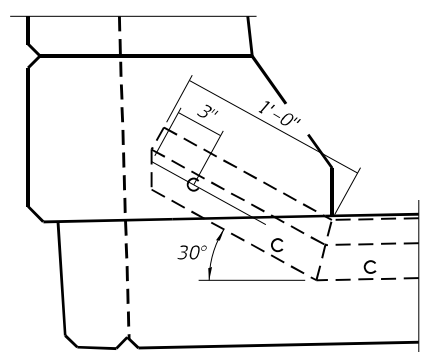
**SECTION B-B**

**Notes:**  
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.  
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.  
 The manufacturer's recommended installation methods shall be followed.  
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.  
 The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

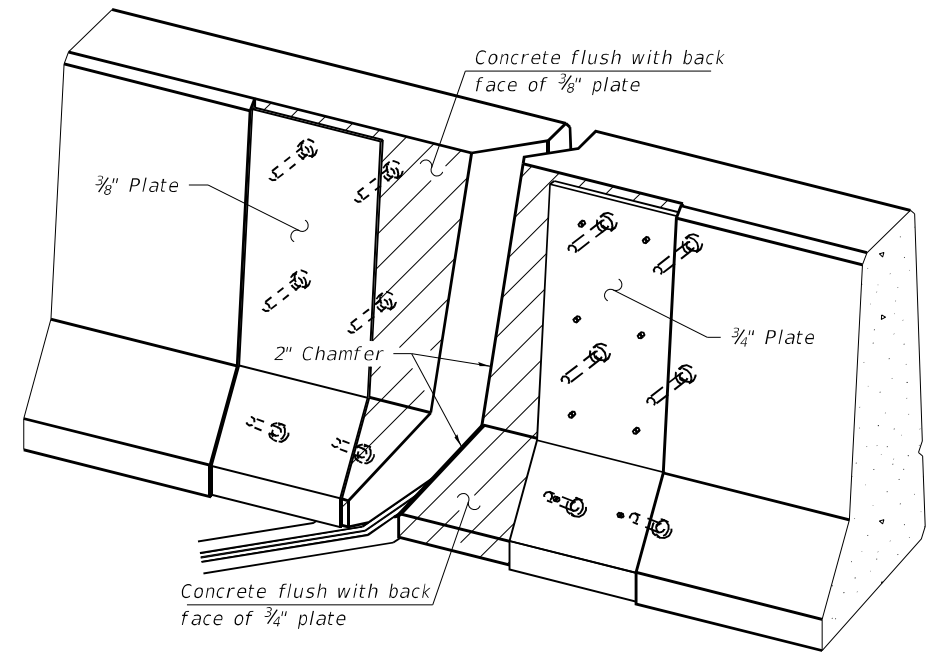


**ELEVATION AT PARAPET**

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)

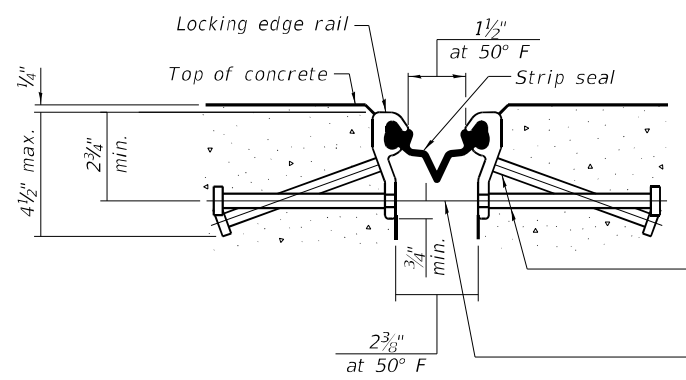


**DETAIL A**



**TRIMETRIC VIEW**  
(Showing embedded plates only)

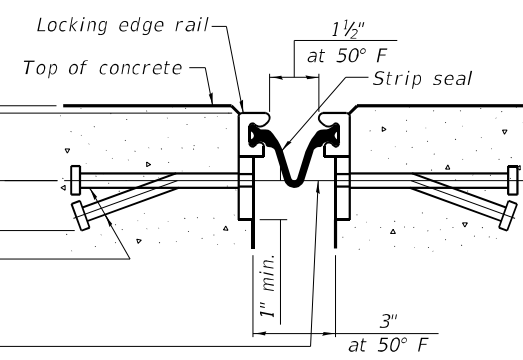
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.  
 34" F-shape barrier shown, 42" F-shape similar as noted.  
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



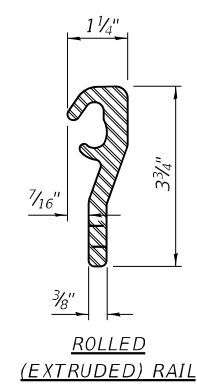
**SHOWING ROLLED RAIL JOINT**

\* 3/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

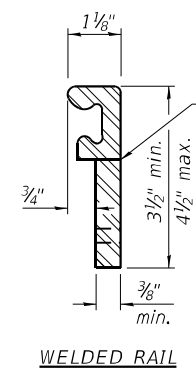
3/8" Ø threaded rods in 1/16" Ø holes at ±4"-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



**SHOWING WELDED RAIL JOINT**



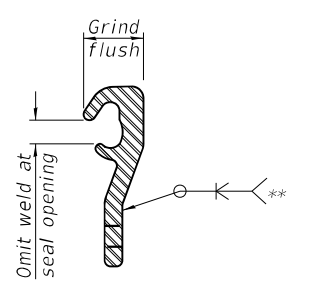
**ROLLED (EXTRUDED) RAIL**



**WELDED RAIL**

**LOCKING EDGE RAILS**

\*\* Back gouge not required if complete joint penetration is verified by mock-up.



**LOCKING EDGE RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	226.0

EJ-SS 8-11-17

USER NAME =	atiemann	DESIGNED -	AHT	REVISED -	
PLOT SCALE =	40:0 ft/in	CHECKED -	AJN	REVISED -	
PLOT DATE =	3/17/2021	DRAWN -	AHT	REVISED -	
		CHECKED -	AJN	REVISED -	

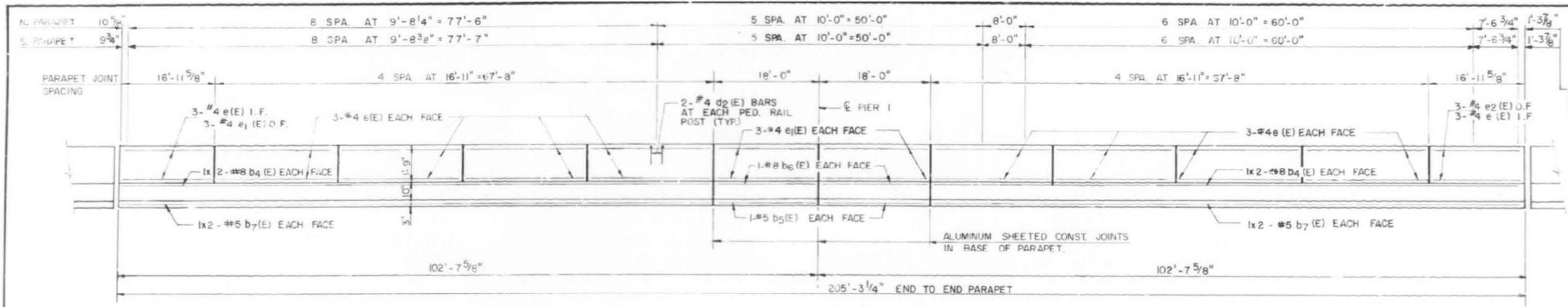
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL  
130TH ST. BRIDGE OVER I-94 - SN 016-2600**

SHEET SB-07 OF SB-17 SHEETS

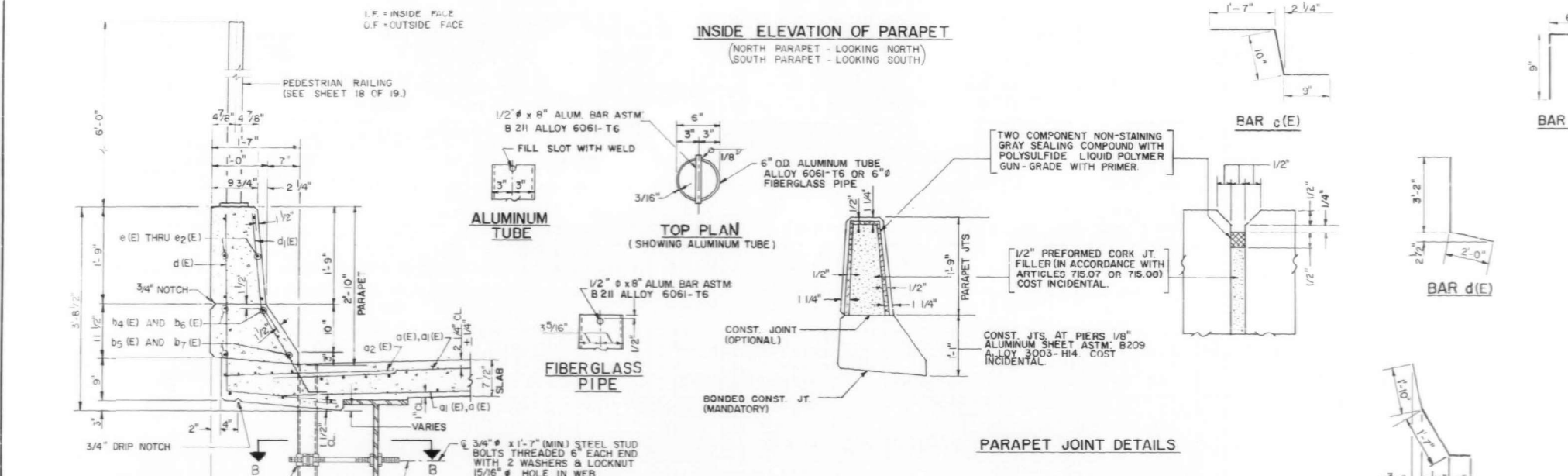
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	55
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

SB-7

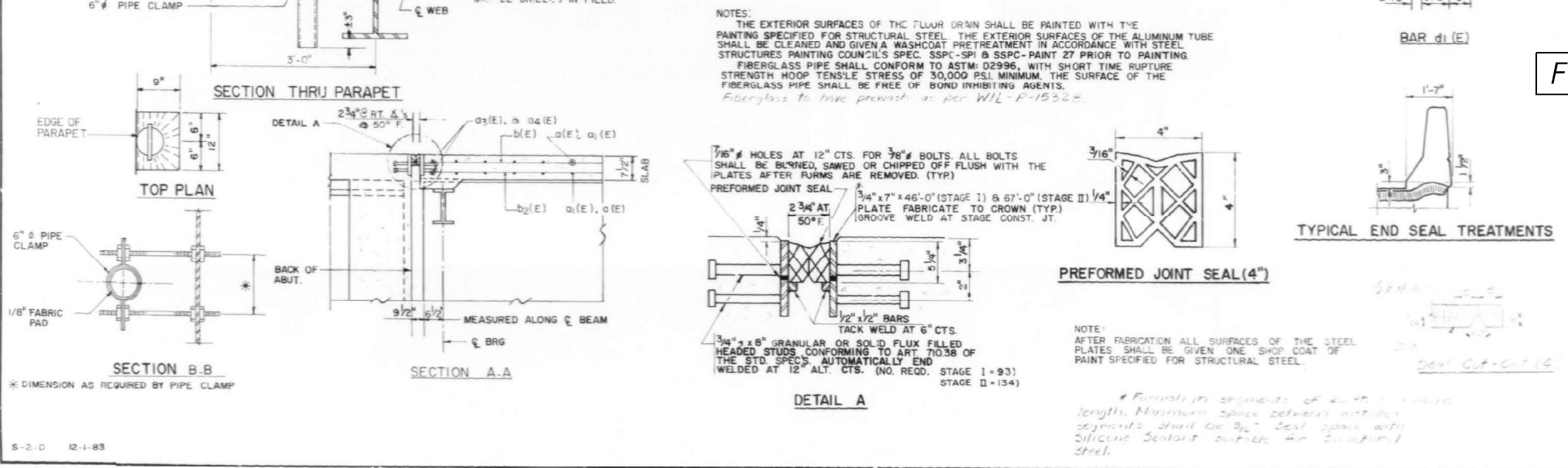


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 94	#	COOK	206	143
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
# 42(7.1, 7.1A, HB-13, SB-9) R-86				

BAR	NO.	SIZE	LENGTH	SHAPE
a (E)	845	# 5	50'-0"	
a1 (E)	833	# 5	45'-6"	
a2 (E)	494	# 6	4'-0"	
a3 (E)	4	# 5	25'-6"	
a4 (E)	4	# 5	32'-9"	
b (E)	816	# 5	27'-7"	
b1 (E)	190	# 6	35'-10"	
b2 (E)	954	# 5	24'-9"	
b4 (E)	15	# 8	45'-0"	
b5 (E)	8	# 8	12'-9"	
b6 (E)	8	# 8	12'-9"	
b7 (E)	16	# 5	43'-10"	
c (E)	405	# 5	3'-2"	
c1 (E)	209	# 5	2'-5"	
d (E)	412	# 4	5'-2"	L
d1 (E)	450	# 5	3'-1"	
d2 (E)	88	# 4	2'-0"	
e (E)	108	# 4	16'-8"	
e1 (E)	30	# 4	17'-9"	
e2 (E)	6	# 4	15'-9"	
REINFORCEMENT BARS (EPOXY COATED)			LBS.	155,055
CLASS X CONC. SUP-STR.			CU. YDS.	510.7



For Information Only



**WELLS ENGINEERS, INC.**  
 PARAPET DETAILS-MAIN SPANS  
 130TH STREET  
 OVER CALUMET EXPY  
 F.A.I. 94 - SEC 42(7.1, 7.1A, HB-13, SB-9) R-86  
 STA. 220+00 (130TH STREET)  
 STA. 94+39.50 (F.A.I. RT. 94)  
 COOK COUNTY  
 STRUCTURE NO. 016-2600  
 DATE: 10-17-86 DRAWN BY: GLH JOB NO. 850571  
 DESIGNED BY: FMB CHECKED BY: PHI SHEET NO. 7

MODEL: 0162600-D62M41-009  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB.195-016 Phase II Var.Van.Engineering\WO 2 - 130th at 194-RR1500 Drawings\0162600-D62M41.dgn  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312-414-0580  
 www.bowmanconsulting.com

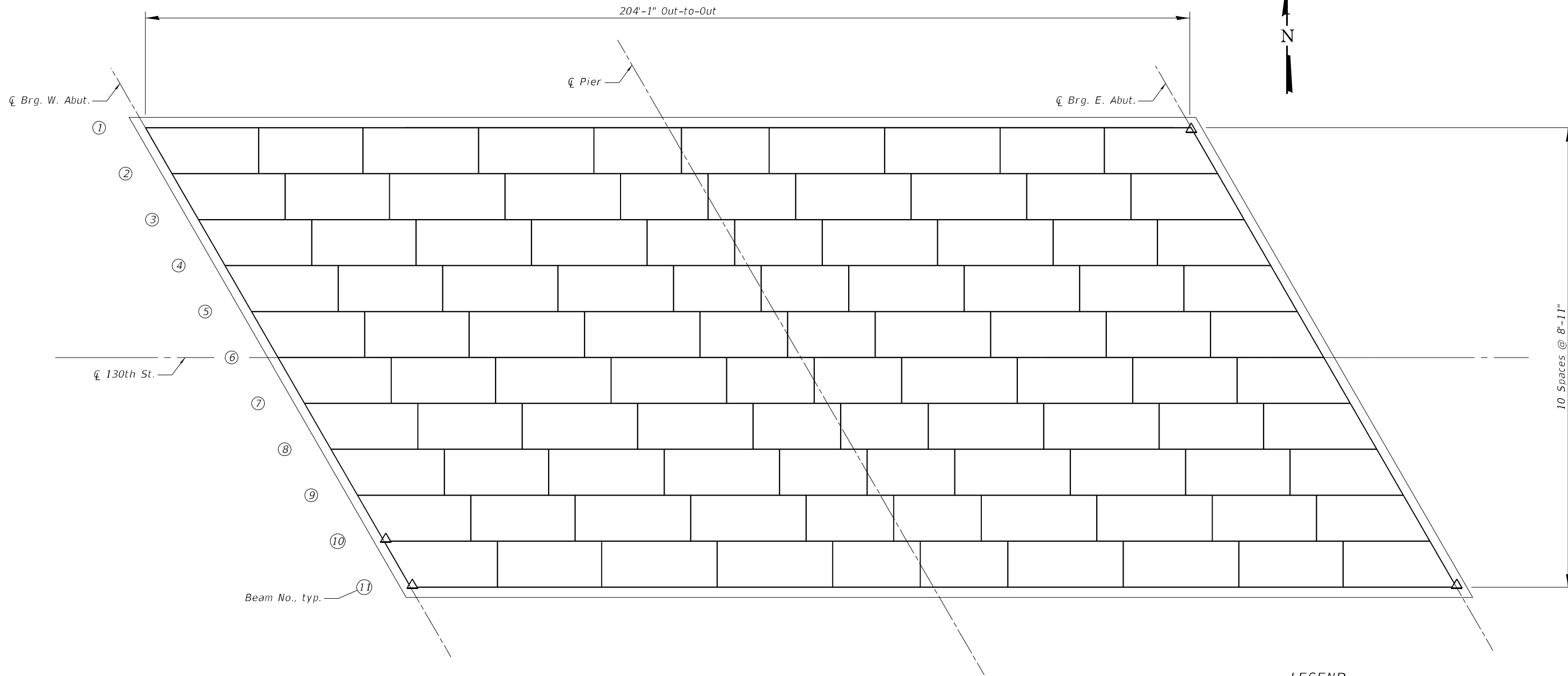
USER NAME =	atiemann	DESIGNED -	AHT	REVISED -	
PLOT SCALE =	2:0 ft/in / in.	CHECKED -	AJN	REVISED -	
PLOT DATE =	3/17/2021	DRAWN -	AHT	REVISED -	
		CHECKED -	AJN	REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

JOINTS AND BRIDGE DRAINAGE AS-BUILT PLANS  
 130TH ST. BRIDGE OVER I-94 - SN 016-2600

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	56
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				





**FRAMING PLAN**

**LEGEND**

△ - Jack & Remove Existing Bearings

**BEAM REACTION TABLE (UNFACTORED) - AT ABUTMENT**

Load Type	Beams 2 & 10 (Interior)
DL	69.4 Kips
LL	51.9 Kips
IMP	11.5 Kips
Tot. Load	132.8 Kips
Min. Req'd. Jack Capacity	151.7 Kips

Notes:  
Prior to ordering any material, the contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 76 tons.

The jack capacity provided should be between 50% and 100% greater than the maximum expected load.

Removal of affected side retainers is included in "Jack and Remove Existing Bearings" pay item.

**BILL OF MATERIAL**

Item	Unit	Total
Jack and Remove Existing Bearings	Each	4

MODEL: 0162600-D62M41-010  
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 02 - 130th at I94-RRV500 Drawings\501\_CADD Drawings\0162600-D-162M41.dgn



USER NAME = atiemann  
DESIGNED - AHT  
CHECKED - AJN  
PLOT SCALE = 20:0 ft:in / in.  
DRAWN - AHT  
PLOT DATE = 3/17/2021  
CHECKED - AJN

REVISER -  
REVISER -  
REVISER -  
REVISER -

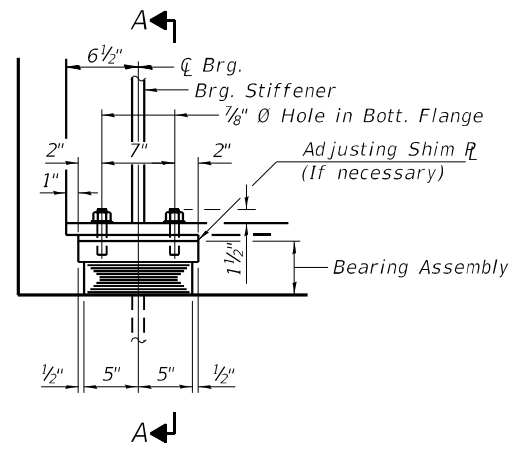
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BEARING REPLACEMENT LOCATIONS  
130TH ST. BRIDGE OVER I-94 - SN 016-2600**

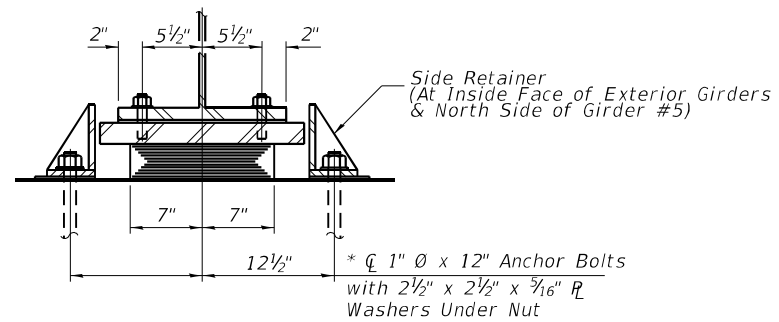
SHEET SB-09 OF SB-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	57
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

SB-09

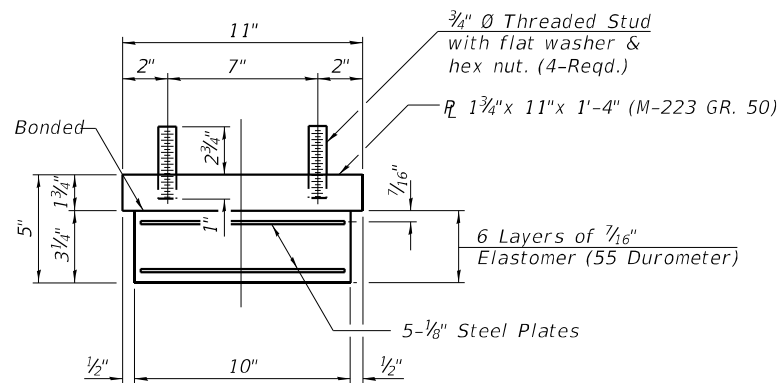


ELEVATION AT ABUT.



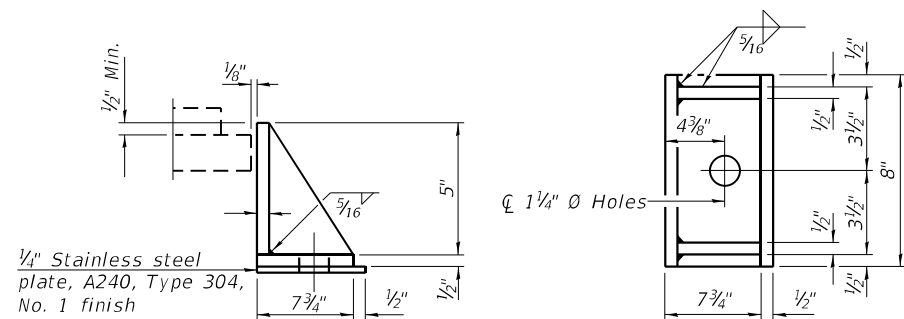
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note:  
Shim Plates Shall Not Be Placed Under Bearing Assembly.



SIDE RETAINER

Equivalent Rolled Angle With Stiffeners Will Be Allowed in Lieu of Welded Plates. (Side Retainers Shall Be M-183)

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	4
Anchor Bolts	Each	8

Note:  
Anchor Bolts for the new side retainers are included in the pay item "Elastomeric Bearing Assembly Type 1".

I-2E-1

8-11-2017

MODEL: 0162600-D62M41-011  
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 2 - 130th at 194-RR\1500 Drawings\501\_CADD Drawings\0162600-D62M41.dgn



USER NAME =	atiemann	DESIGNED -	AHT	REVISED -	
PLOT SCALE =	40:0 ft:in / in.	CHECKED -	AJN	REVISED -	
PLOT DATE =	3/17/2021	DRAWN -	AHT	REVISED -	
		CHECKED -	AJN	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

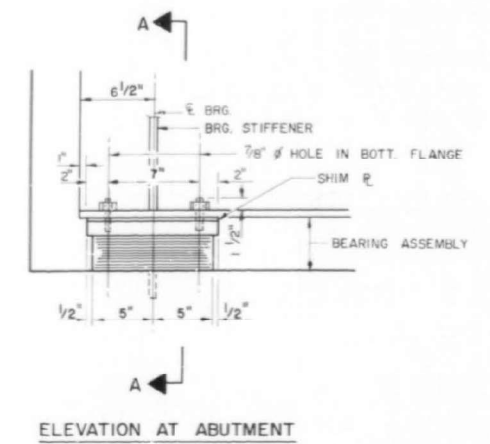
NEW BEARING DETAILS  
130TH ST. BRIDGE OVER I-94 - SN 016-2600

SHEET SB-10 OF SB-17 SHEETS

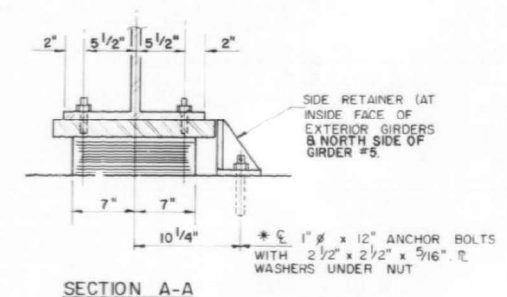
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	58
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

SB-10

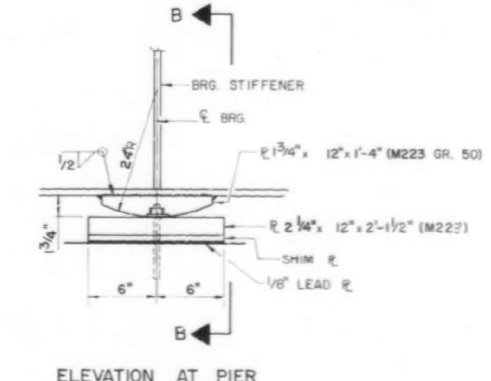
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I.A.1-94	*	COOK	206	148
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
* 42(7.1, 7.1A, HB-13, SB-9)R-86				



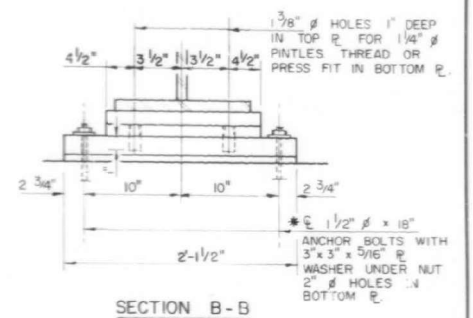
ELEVATION AT ABUTMENT



SECTION A-A



ELEVATION AT PIER

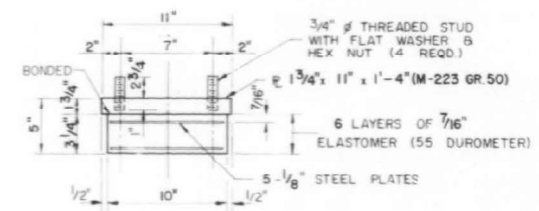


SECTION B-B

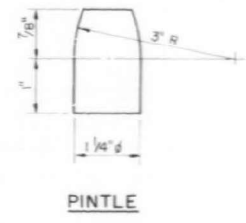
TYPE I ELASTOMERIC EXP. BRG  
NO REQ'D = 22

FIXED BEARING  
NO REQ'D = 11

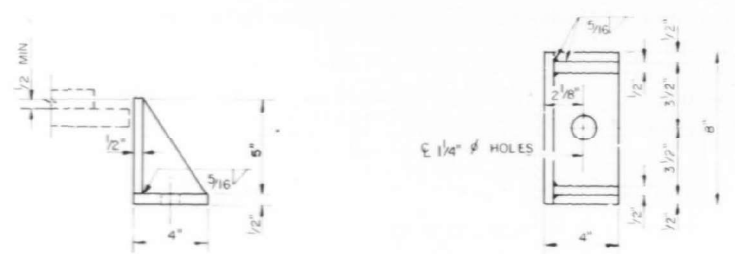
\* NOTES ANCHOR BOLTS AT FIXED BEARINGS MAY BE BUILT INTO THE MASONRY. SEE SHEET 17 OF 19 FOR ANCHOR BOLT INSTALLATION.



BEARING ASSEMBLY  
NOTE: SHIM PLATES SHALL NOT BE PLACED UNDER BRG ASSEMBLY



PINTLE



SIDE RETAINER  
EQUIVALENT ROLLED ANGLE WITH STIFFENERS WILL BE ALLOWED IN LIEU OF WELDED PLATES (SIDE RETAINERS SHALL BE M-183)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
ELASTOMERIC BEARING ASSEMBLY TYPE I	EACH	22

**WELLS ENGINEERS, INC.**  
BEARING DETAILS  
130TH STREET  
OVER CALUMET EXPY  
F.A.I. 94 - SEC. 42(7.1, 7.1A, HB-13, SB-9)R-86  
STA. 220+00 (130TH STREET)  
STA. 94+39.50 (F.A.I. RT. 94)  
COOK COUNTY  
STRUCTURE NO. 016-2600  
DATE: 10-17-86 DRAWN BY: GLH JOB NO. 850571  
DESIGNED BY: FMB CHECKED BY: PHI SHEET NO. 12

For Information Only



MODEL: 0162600-D62M41-012 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 2 - 130th at 194-RR\1500 Drawings\501\_CADD Drawings\0162600-D62M41.dgn

**Bowman CONSULTING**  
311 S. Wacker Drive, Suite 1950  
Chicago, Illinois 60606  
312-464-0580  
www.bowmanconsulting.com

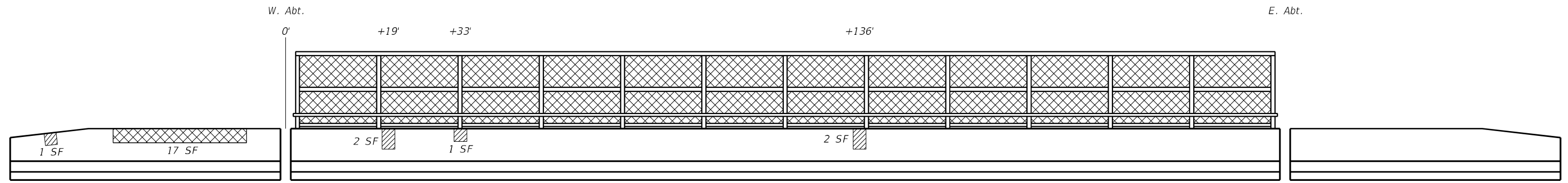
USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 2:0 ft:in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

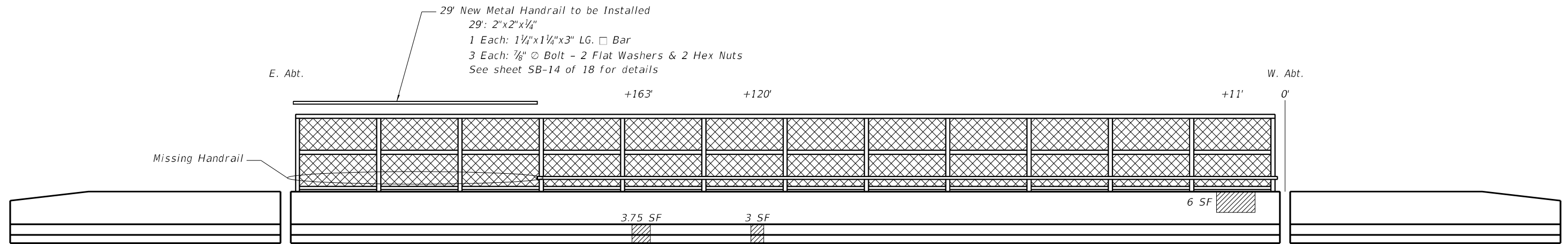
BEARING DETAILS - AS-BUILT PLANS  
130TH ST. BRIDGE OVER I-94 - SN 016-2600

SHEET SB-11 OF SB-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	59
				CONTRACT NO. 62M41
ILLINOIS FED. AID PROJECT				



**PARAPET AND HANDRIAL**  
(North Wall, South Face)



**PARAPET AND HANDRIAL**  
(South Wall, North Face)



**MISSING HANDRAIL**



**HANDRAIL ATTACHMENT DETAIL**

**Note:**  
The work associated with the missing metal handrail reinstallation will be paid for as lump sum under "Handrail Repairs" pay item. See sheet SB-13 of this set for details and material specifications.

**LEGEND**

- Structural Repair of Concrete < 5"
- Structural Repair of Concrete > 5"

MODEL: 0162600-D62M41-013  
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var.VanEngineering\WO 2 - 130th at 194-RR\1500 Drawings\501\_CADD Drawings\0162600-D62M41.dgn

**Bowman CONSULTING**  
311 S. Wacker Drive, Suite 1950  
Chicago, Illinois 60606  
312-454-0580  
www.bowmanconsulting.com

USER NAME = atiemann	DESIGNED - AHT	REVISED -
	CHECKED - AJN	REVISED -
PLOT SCALE = 20:0 ft:in / in.	DRAWN - AHT	REVISED -
PLOT DATE = 3/17/2021	CHECKED - AJN	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PARAPET REPAIR  
130TH ST. BRIDGE OVER I-94 - SN 016-2600**

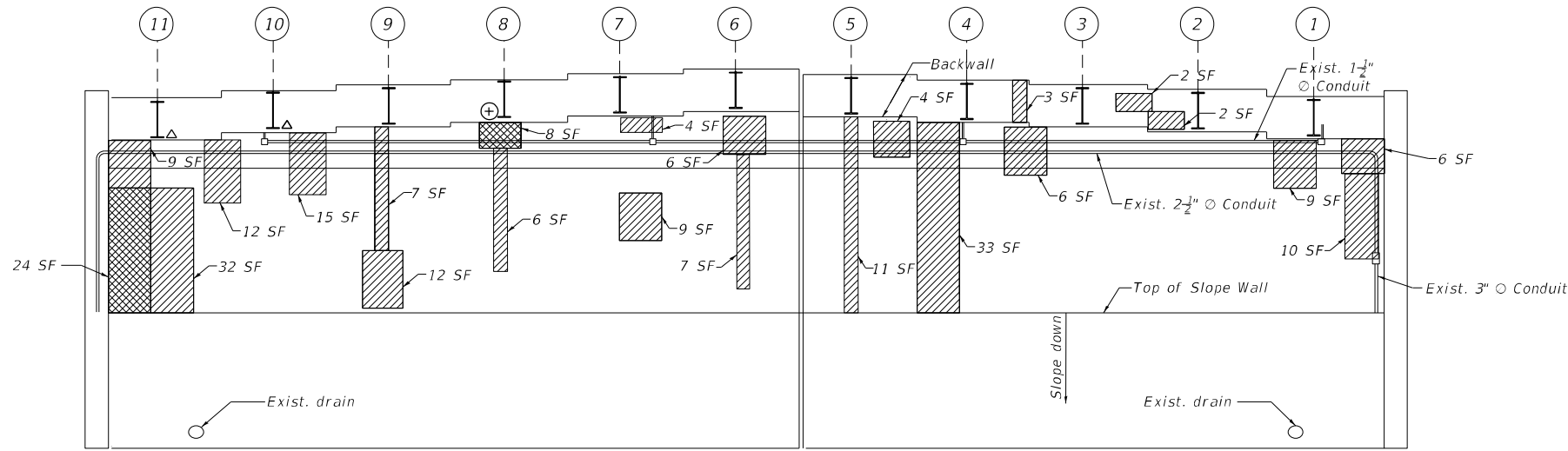
SHEET SB-12 OF SB-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	60
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				

SB-12

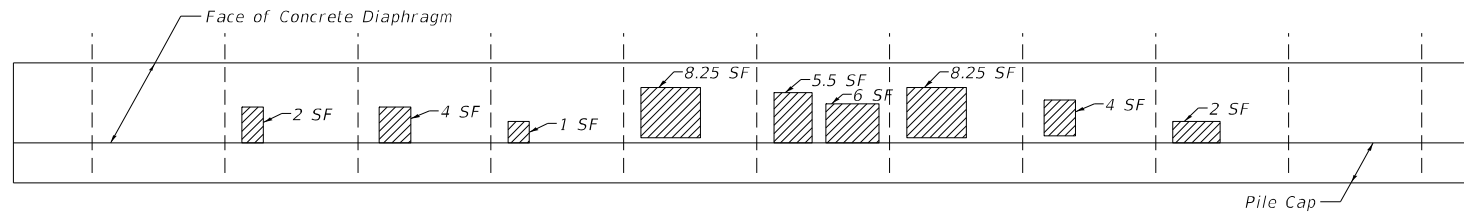






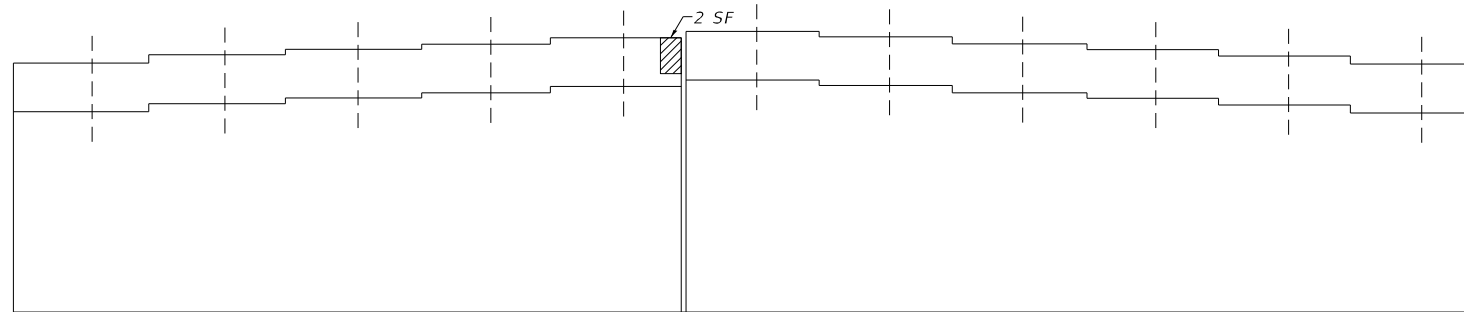
**WEST ABUTMENT ELEVATION**

East Face, Looking West



**WEST PILE BENT ELEVATION**

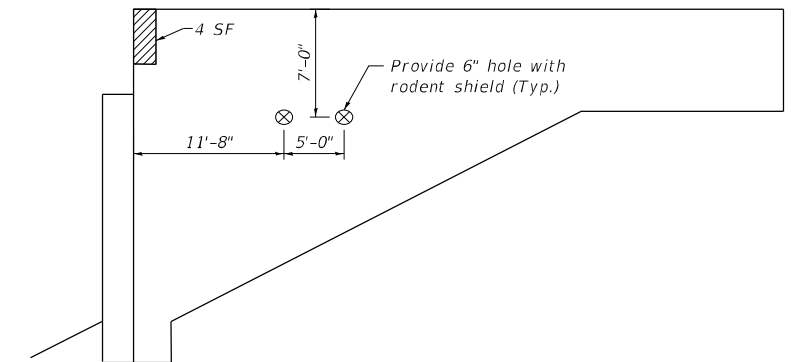
Looking West



**WEST ABUTMENT ELEVATION**

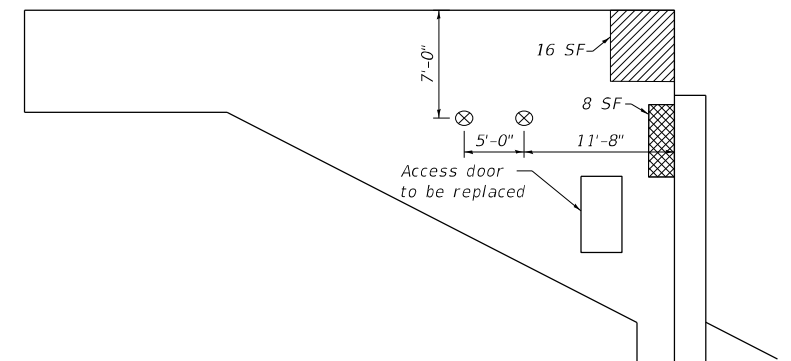
West Face, Looking East

BILL OF MATERIAL		
Description	Unit	Quantity
Remove Existing Conduit attached to Structure	Feet	244.5
Concrete Sealer	Sq. Ft.	3,284
Structural Repair of Concrete, Depth Equal to or Less than 5 In.	Sq. Ft.	268
Structural Repair of Concrete, Depth Greater than 5 In.	Sq. Ft.	40
Temporary Shoring and Cribbing	Each	1



**WEST ABUTMENT - NORTH WALL ELEVATION**

Looking South



**WEST ABUTMENT - SOUTH WALL ELEVATION**

Looking North

Note:  
Installation of two 6" dia. vent holes with rodent screens at each vaulted abutment is included with the "Access Door" pay item.

**Legend**

- △ Jack and remove existing bearings
- ⊕ Temporary Shoring and Cribbing
- ▨ Structural Repair of Concrete Depth less than or equal to 5 In.
- ▩ Structural Repair of Concrete Depth Greater Than 5 In.

**Notes:**

1. Existing Electrical conduits attached to abutment, will need to be removed before commencement of Structural Repair of Concrete at the abutments
2. Apply concrete sealer to all exterior faces of the vaulted abutment walls, beam seats, backwalls and slopewall.
3. Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
4. Prior to removal of concrete, the existing beams over the repair area shall be temporarily supported (See Beam Reaction Table on sheet SB-09 and Special Provision for Temporary Shoring and Cribbing.)

MODEL: Model  
FILE NAME: P:\040058-01-002 (ENG) - PTB\_195-016 Phase II Var.VanEngineering\WO 2 - 130th at 194-RR\500 Drawings\501\_CADD Drawings\162M41-West Abutment Repair.dgn



USER NAME =	atiemann	DESIGNED -	AHT	REVISED -	
PLOT SCALE =	16:0.0000 " / in.	CHECKED -	AJN	REVISED -	
PLOT DATE =	3/17/2021	DRAWN -	JDK	REVISED -	
		CHECKED -	AJN	REVISED -	

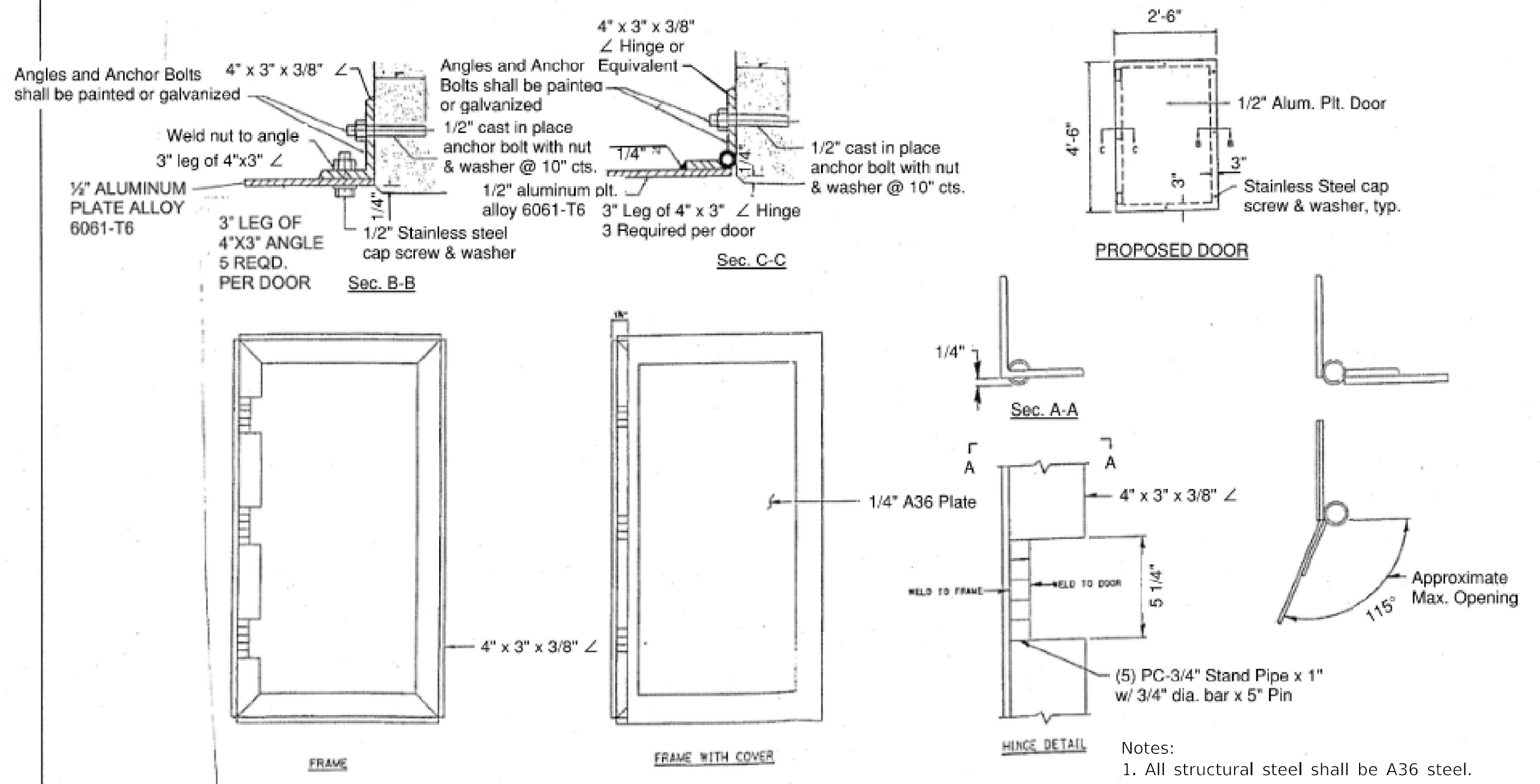
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEST ABUTMENT REPAIR  
130TH ST. BRIDGE OVER I-94 - SN 016-2600**

SHEET SB-15 OF SB-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	63
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

MODEL: Model  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var.VanEngineering\WO 02 - 130th at I94-RRV500 Drawings\501\_CADD Drawings\162M41-Access Door.dgn  
 3/17/2021 1:55:39 PM



- Notes:
1. All structural steel shall be A36 steel.
  2. All the material and labor required to complete the work shown on this sheet is included in the cost of "Access Door" pay item.



USER NAME =	atiemann	DESIGNED -	AHT	REVISED -	
PLOT SCALE =	16:0.0000 " / in.	CHECKED -	AJN	REVISED -	
PLOT DATE =	3/17/2021	DRAWN -	AHT	REVISED -	
		CHECKED -	AJN	REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

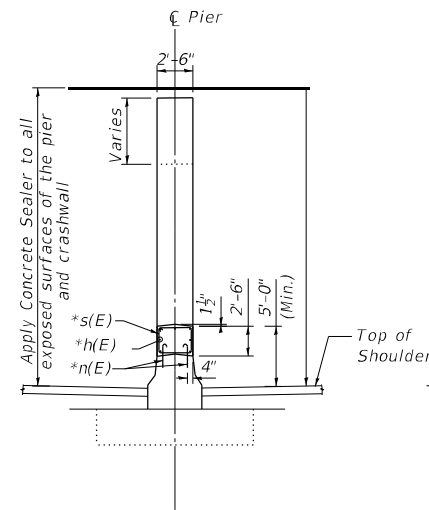
**VAULTED ABUTMENT DOOR DETAIL**  
**130TH ST. BRIDGE OVER I-94 - SN 016-2600**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	63A
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				

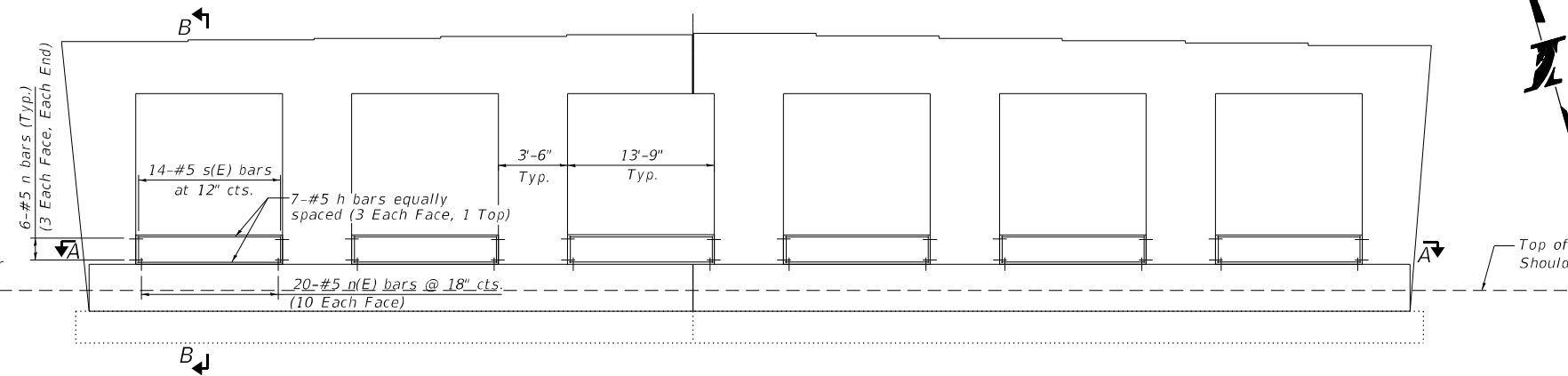
SB-15A

SHEET SB-15A OF SB-17 SHEETS

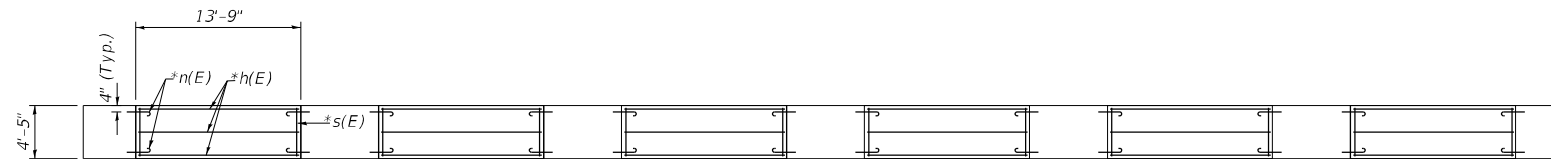




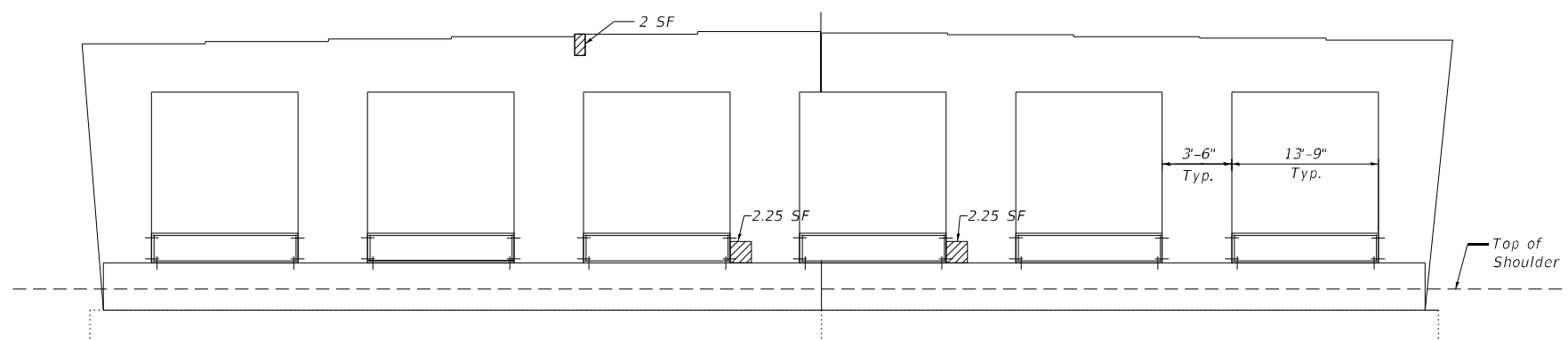
**SECTION B-B**  
Looking North



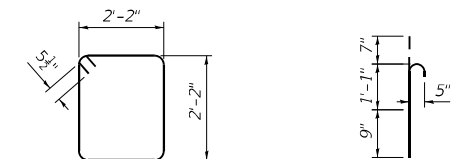
**PIER ELEVATION**  
Looking East



**SECTION A-A**



**PIER ELEVATION**  
Looking West



**Bar s(E)**      **Bar n(E) Dowel Bar**

BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
h(E)	42	#5	13'-6"	—
n(E)	192	#5	2'-5"	⌋
s(E)	84	#5	9'-7"	□
Description		Unit	Quantity	
Concrete Structures		Cu. Yd.	19.10	
Reinforcement Bars, Epoxy Coated		Pound	1,910	
Concrete Sealer		Sq. Ft.	412.5	
Structural Repair of Concrete, Depth Equal to or Less than 5 In.		Sq. Ft.	6	

- Notes:
- Quantities and limits of repairs shown are estimated for bidding purposes only. The actual areas to be repaired, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.
  - Prior to removal of concrete, the existing beams over the repair area shall be temporarily supported (See Beam Reaction Table on sheet SB-09 and Special Provision for Temporary Shoring and Cribbing.)

**Legend**

▨ Structural Repair of Concrete  
Depth less than or equal to 5 In.

MODEL: Model  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 2 - 130th at 194-RR\1500 Drawings\162M41-Pier Repair.dgn  
 3/17/2021 2:52:16 PM

**Bowman CONSULTING**  
 311 S. Wacker Drive, Suite 1950  
 Chicago, Illinois 60606  
 312.464.4100  
 www.bowmanconsulting.com

USER NAME =	atiemann	DESIGNED -	AHT	REVISED -	
		CHECKED -	AJN	REVISED -	
PLOT SCALE =	16:0.0000 " = 1 in.	DRAWN -	JDK	REVISED -	
PLOT DATE =	3/17/2021	CHECKED -	AJN	REVISED -	

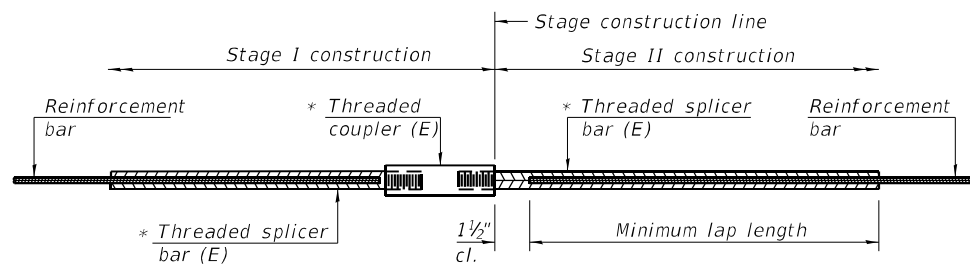
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PIER REPAIR AND NEW CRASH WALL**  
**130TH ST. BRIDGE OVER I-94 - SN 016-2600**

SHEET SB-16 OF SB-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	64
CONTRACT NO.			62M41	
ILLINOIS FED. AID PROJECT				

SB-16

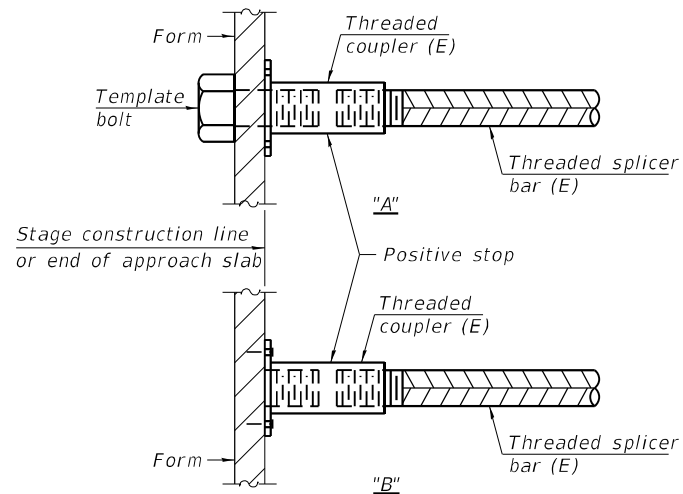


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

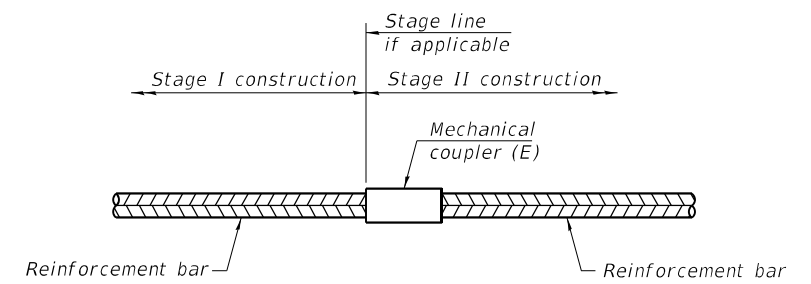
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
W. End of Deck	#5	7	3'-6"
W. Abut. Hatched Block	#5	4	3'-6"
E. End of Deck	#5	7	3'-6"
E. Abut. Hatched Block	#5	4	3'-6"



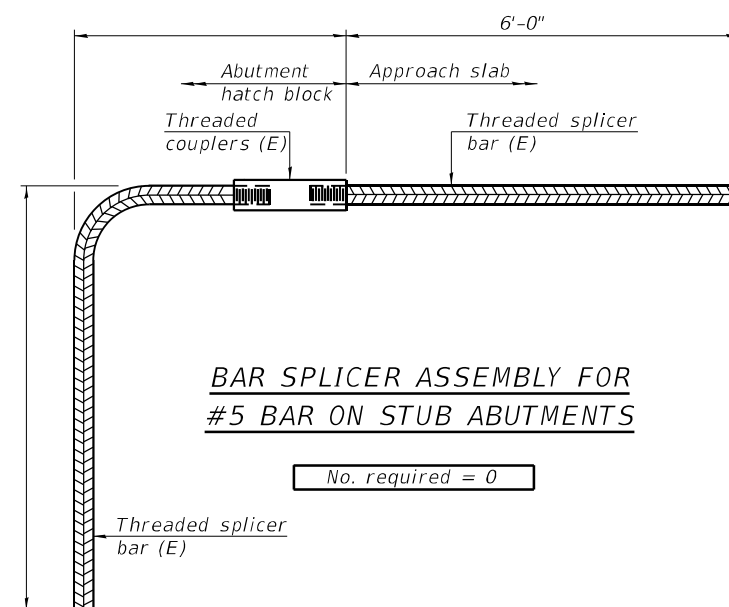
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: 0162600-D62M41-018  
 FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB\_195-016 Phase II Var VanEngineering\WO 2 - 130th at 194-RR\1500 Drawings\501\_CADD Drawings\0162600-D162M41.dgn  
 3/17/2021 2:52:17 PM

BSD-1

2-17-2017



USER NAME = atiemann	DESIGNED - AHT	REVISED -
PLOT SCALE = 2:0 ft:in / in.	CHECKED - AJN	REVISED -
PLOT DATE = 3/17/2021	DRAWN - AHT	REVISED -
	CHECKED - AJN	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY  
130TH ST. BRIDGE OVER I-94 - SN 016-2600**

SHEET SB-17 OF SB-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-153-BR	COOK	85	65
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62M41	

SB-17









**GENERAL NOTES:**

1. THIS PROJECT INCLUDES THE INSTALLATION OF A NEW UNDERPASS LIGHTING SYSTEM IN CONJUNCTION WITH BRIDGE RECONSTRUCTION AT 130TH ST. OVER I-94. THE EXISTING UNDERPASS LIGHTING IS OWNED BY THE STATE OF ILLINOIS.
2. THE EXISTING UNDERPASS LIGHTING IS CONNECTED TO EXISTING LIGHTING CONTROLLERS "V" AND "W".
3. THE EXISTING UNDERPASS LIGHTING SHALL BE MAINTAINED DURING CONSTRUCTION AS TEMPORARY LIGHTING CONSIDERING VARIOUS PHASES OF CONSTRUCTION, UNTIL THE PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL.
4. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
5. THE PROPOSED UNDERPASS LUMINAIRES SHALL BE RECONNECTED TO CIRCUITS "CD" ON BOTH THE "V" CONTROLLER AND THE "W" CONTROLLER.
6. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
7. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST NEC IDOT STANDARDS, AND LOCAL CODES.
8. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE UL LISTED AND LABELED.
9. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREE ROOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.


**BILL OF MATERIALS**

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	642
81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	15
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"	EACH	12
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"X10"X6"	EACH	6
81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"X18"X8"	EACH	2
81603081	UNIT DUCT, 600V, 3-1/C NO. 2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	200
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2136
82110021	LUMINAIRE, LED, UNDERPASS, WALLMOUNTED, OUTPUT DESIGNATION D	EACH	6
82110026	LUMINAIRE, LED, UNDERPASS, SUSPENDE, OUTPUT DESIGNATION D	EACH	6
Z0033024	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12

**LEGEND**

-  EXISTING HIGH MAST LIGHT TOWER TO REMAIN
-  ELECTRIC CABLE IN CONDUIT 1" DIA.
-  UNIT DUCT, 600V, 3-1/C NO. 2, 1/C NO. 4 GROUND (XLP-TYPE USE) 1 1/4" DIA. POLYETHYLENE
-  R EXISTING UNDERPASS LUMINAIRE TO BE REMOVED
-  PROPOSED UNDERPASS LUMINAIRE LED
-  B JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 18"x18"x8"
-  B JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 12"x10"x6"
-  C JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 6"x6"x4"

MODEL: Default  
FILE NAME: F:\Projects\1060-var var -Bowman\W03\Design\Sheet\162M41--shc\light-01.dgn  
4/14/2021 11:38:01 AM

 <b>AMES Engineering, Inc.</b> CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60515	USER NAME =	DESIGNED - BL	REVISED -
		CHECKED - MB	REVISED -
	PLOT SCALE =	DRAWN - SR	REVISED -
	PLOT DATE =	DATE - 04-14-2021	REVISED -

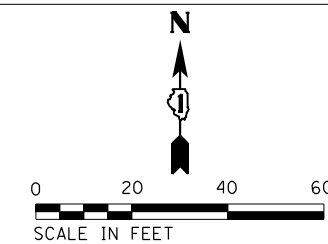
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, BILL OF MATERIALS AND LEGEND  
130TH ST. OVER I-94**

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TBD	2020-153-BR	COOK	85	66
			CONTRACT NO. 62M41	
		ILLINOIS	FED. AID PROJECT	

**LT-01**



**NOTES:**

1. FOR GENERAL NOTES AND LEGEND SEE SHEET LT-01.
2. MAINTENANCE OF THE EXISTING UNDERPASS LIGHTING SYSTEM SHALL BE TRANSFERRED FROM IDOT TO THE CONTRACTOR PRIOR TO THE BEGINNING OF ANY WORK. IT SHALL BE USED AS TEMPORARY LIGHTING DURING CONSTRUCTION PER MOT.
3. EXISTING JUNCTION BOXES, CONDUIT AND ELECTRICAL CABLES SHALL BE REMOVED ALONG WITH THE UNDERPASS LIGHTING UNITS AND DISPOSE OF FROM SITE PER INSTRUCTIONS FROM THE FIELD ENGINEER/IDOT.
4. THE EXISTING UNDERPASS LUMINAIRES SHALL BE MAINTAINED AND REMOVED AS REQUIRED WITH BRIDGE REMOVAL AND COORDINATED WITH THE INSTALLATION OF THE PROPOSED UNDERPASS LUMINAIRES TO PROVIDE UNDERPASS LIGHTING THROUGHOUT CONSTRUCTION WORK AS NEEDED. THIS WORK SHALL BE INCLUDED IN COST OF MAINTENANCE OF LIGHTING SYSTEM.

MODEL: Default  
FILE NAME: F:\Projects\1060-var var -Bowman\W03\Design\Sheet\162M41--shc-light-02.dgn



USER NAME =	DESIGNED - BL	REVISED -
	CHECKED - MB	REVISED -
PLOT SCALE =	DRAWN - SR	REVISED -
PLOT DATE =	DATE - 04-14-2021	REVISED -

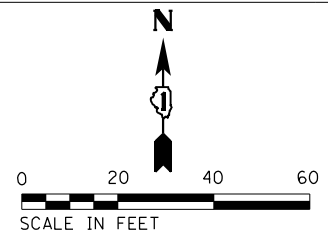
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**UNDERPASS LIGHTING REMOVAL PLAN  
130TH ST. OVER I-94**

SHEET OF SHEETS

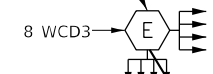
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TBD	2020-153-BR	COOK	85	67
			CONTRACT NO. 62M41	
		ILLINOIS	FED. AID PROJECT	

**LT-02**



PROPOSED JUNCTION BOX, STAINLESS STEEL,  
ATTACHED TO STRUCTURE 18"X18"X8"  
WITH OVER CURRENT PROTECTION (TYP.)

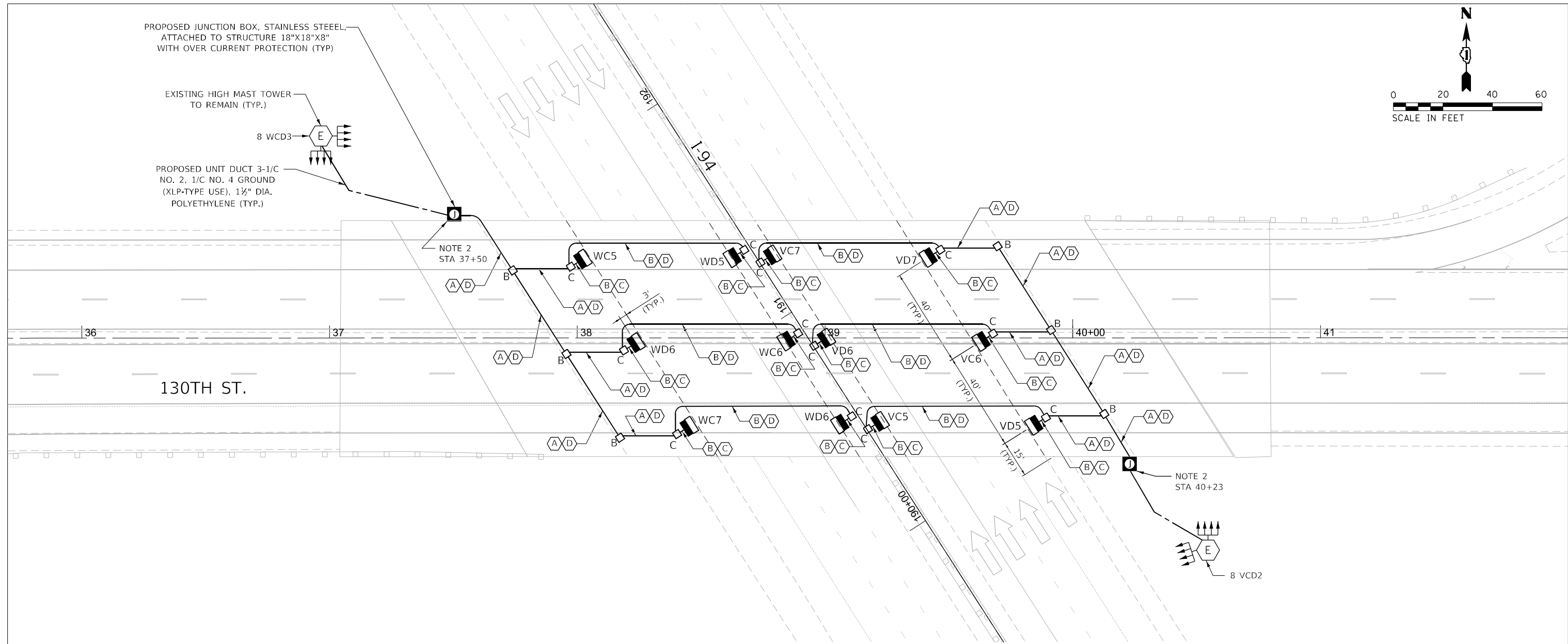
EXISTING HIGH MAST TOWER  
TO REMAIN (TYP.)



PROPOSED UNIT DUCT 3-1/C  
NO. 2, 1/C NO. 4 GROUND  
(XLP-TYPE USE), 1 1/2" DIA.  
POLYETHYLENE (TYP.)

NOTE 2  
STA 37+50

NOTE 2  
STA 40+23



**NOTES:**

1. FOR GENERAL NOTES AND LEGEND SEE SHEET LT-01.
2. INSTALL TWO 30 AMP PROTECTIVE FUSES WITH FUSE HOLDER AND SOLID NEUTRAL SLUG AS OVER CURRENT PROTECTION FOR UNDERPASS LIGHTING.
3. THE PROPOSED UNDERPASS LIGHTING OVER SB I-94 WILL CONTINUE TO BE FED FROM THE HIGH MAST TOWER WCD3. THE EXISTING "W" LIGHTING CONTROLLER IS LOCATED IN THE SW QUADRANT OF THE I-94/130TH ST. INTERCHANGE.
4. THE PROPOSED UNDERPASS LIGHTING NB I-94 WILL CONTINUE TO BE FED FROM THE HIGH MAST TOWER VCD2. THE EXISTING "V" LIGHTING CONTROLLER IS LOCATED IN THE NE QUADRANT OF THE I-94/130TH ST. INTERCHANGE.
5. THE EXISTING FEEDS TO THE UNDERPASS LIGHTING UNITS SHALL BE DISCONNECTED WHEN THE EXISTING UNDERPASS LIGHTING IS REMOVED AS PER PHASES OF CONSTRUCTION.
6. FOR SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS, SEE SHEET LT-06. THESE LUMINAIRES ARE SET BACK 3 FT. FROM THE EDGE OF PAVEMENT.
7. FOR THE SIX CENTER PIER MOUNTED LED UNDERPASS LUMINAIRE INSTALLATION DETAILS, SEE SHEET LT-07. THESE LUMINAIRES ARE SET BACK 6 FT. FROM THE EDGE OF PAVEMENT.

**CABLE AND CONDUIT DESCRIPTION**

- (A) ELECTRIC CABLE IN CONDUIT, 3-1/C NO. 10 AND 1/C NO. 10 GROUND, 600V (XLP-TYPE USE)
- (B) ELECTRIC CABLE IN CONDUIT, 2-1/C NO. 10 AND 1/C NO. 10 GROUND, 600V (XLP-TYPE USE)
- (C) LIQUID-TIGHT FLEXIBLE CONDUIT, 3/4" DIA.
- (D) CONDUIT ATTACHED TO STRUCTURE, PVC COATED GALVANIZED STEEL, 1" DIA.

MODEL: Default  
FILE NAME: F:\Projects\1060-var var -Bowman\W03\Design\Sheet\162M41--shl-light-03.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60515

USER NAME =	DESIGNED - BL	REVISED -
CHECKED - MB	REVISIONS -	
PLOT SCALE =	DRAWN - SR	REVISED -
PLOT DATE =	DATE - 04-14-2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**UNDERPASS LIGHTING PROPOSED PLAN  
130TH ST. OVER I-94**

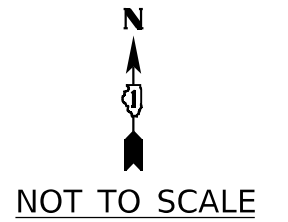
SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TBD	2020-153-BR	COOK	85	68
CONTRACT NO. 62M41				
ILLINOIS		FED. AID PROJECT		

**LT-03**

**LEGEND**

- EXISTING 400W LUMINAIRE ON RED CIRCUIT
- EXISTING 400 LUMINAIRE ON BLACK CIRCUIT
- ↑↑↑↑↑ EXISTING 400W HIGH MAST LUMINAIRES (QUANTITY ON POLE AS SHOWN)
- PROPOSED LED UNDERPASS LUMINAIRE OUTPUT DESIGNATION D ON RED CIRCUIT
- PROPOSED LED UNDERPASS LUMINAIRE OUTPOST DESIGNATION D ON BLACK CIRCUIT
- ⊞ PROPOSED JUNCTION BOX
- ⊞ EXISTING LIGHTING CONTROLLER

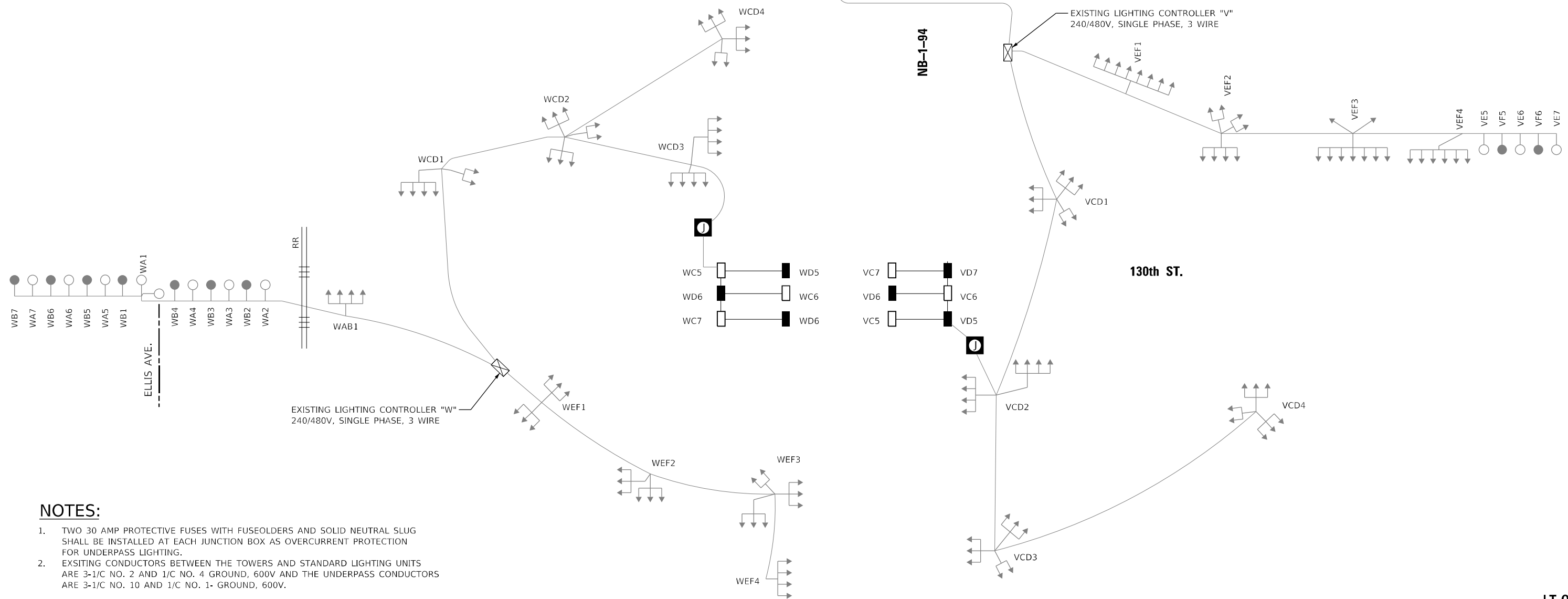


- ● VA15\VB15
- ○ VB14\VA14
- ● VA13\VB13
- ○ VB12\VA12
- ● VA11\VB11
- ○ VB10\VA10
- ● VA9\VB9
- ○ VB8\VA8
- ● VA7\VB7
- ○ VB6\VA6
- ● VA5\VB5
- ○ VB4\VA4

SB-1-94

NB-1-94

130th ST.



**NOTES:**

1. TWO 30 AMP PROTECTIVE FUSES WITH FUSEOLDERS AND SOLID NEUTRAL SLUG SHALL BE INSTALLED AT EACH JUNCTION BOX AS OVERCURRENT PROTECTION FOR UNDERPASS LIGHTING.
2. EXSITING CONDUCTORS BETWEEN THE TOWERS AND STANDARD LIGHTING UNITS ARE 3-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V AND THE UNDERPASS CONDUCTORS ARE 3-1/C NO. 10 AND 1/C NO. 1- GROUND, 600V.

MODEL: Default  
FILE NAME: F:\Projects\1060-var var -Bowman\W03\Design\Sheet\162M41--shc-light-04.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60515

USER NAME =	DESIGNED - BL	REVISED -
CHECKED - MB	REVISIONS -	
PLOT SCALE =	DRAWN - SR	REVISED -
PLOT DATE =	DATE - 04-14-2021	REVISED -

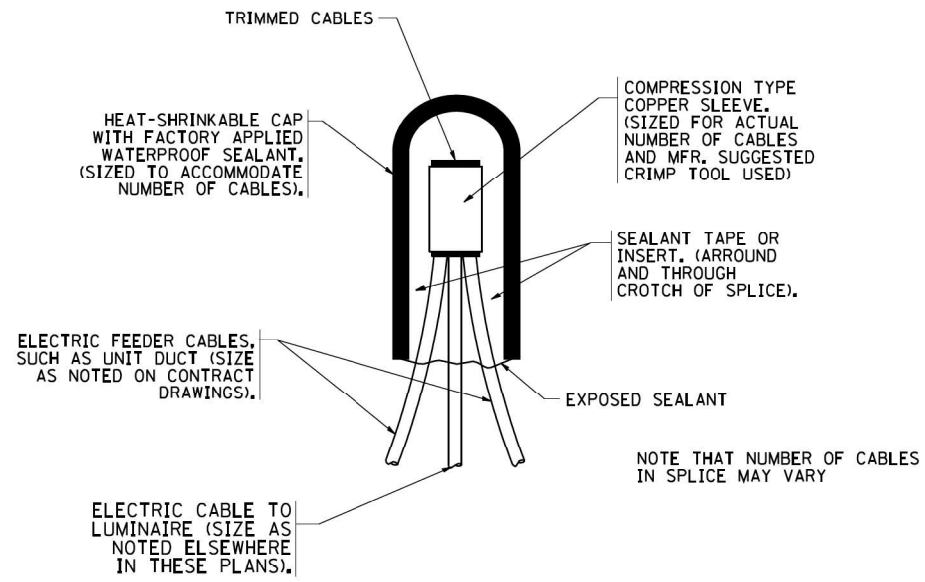
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SINGLE LINE WIRING DIAGRAM  
130TH ST. OVER I-94**

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TBD	2020-153-BR	COOK	85	69
CONTRACT NO. 62M41				
ILLINOIS		FED. AID PROJECT		

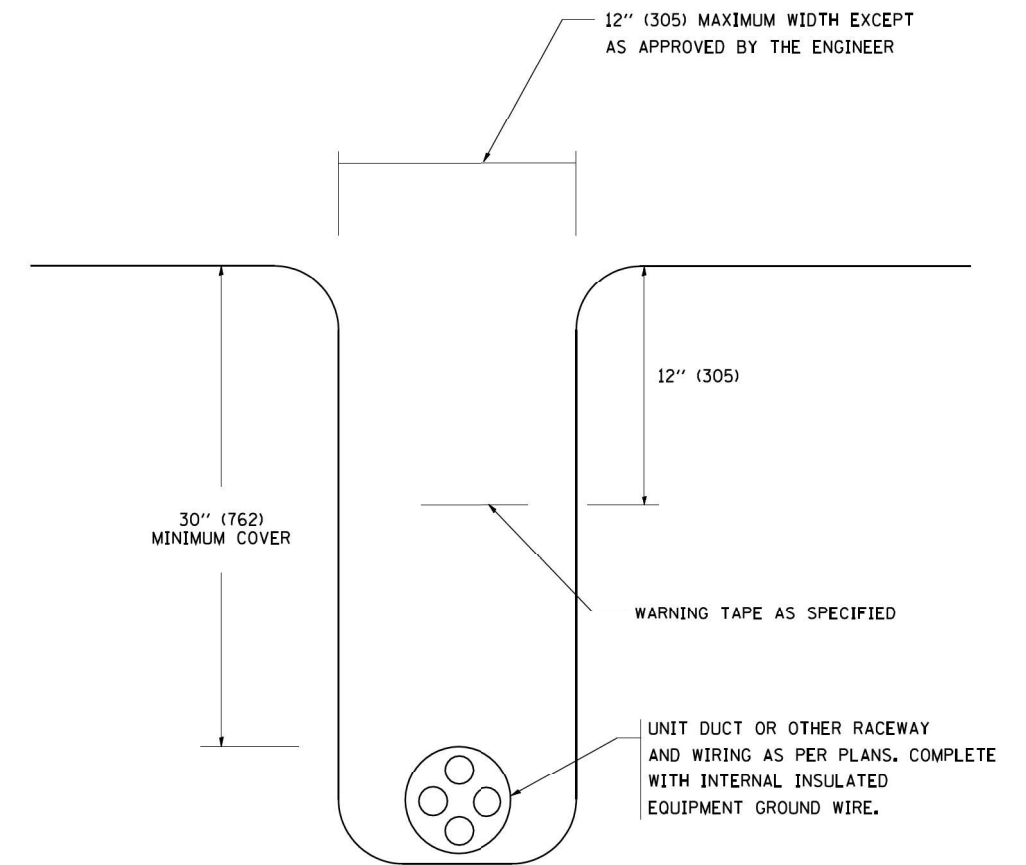
LT-04



TYPICAL SPLICE DETAIL

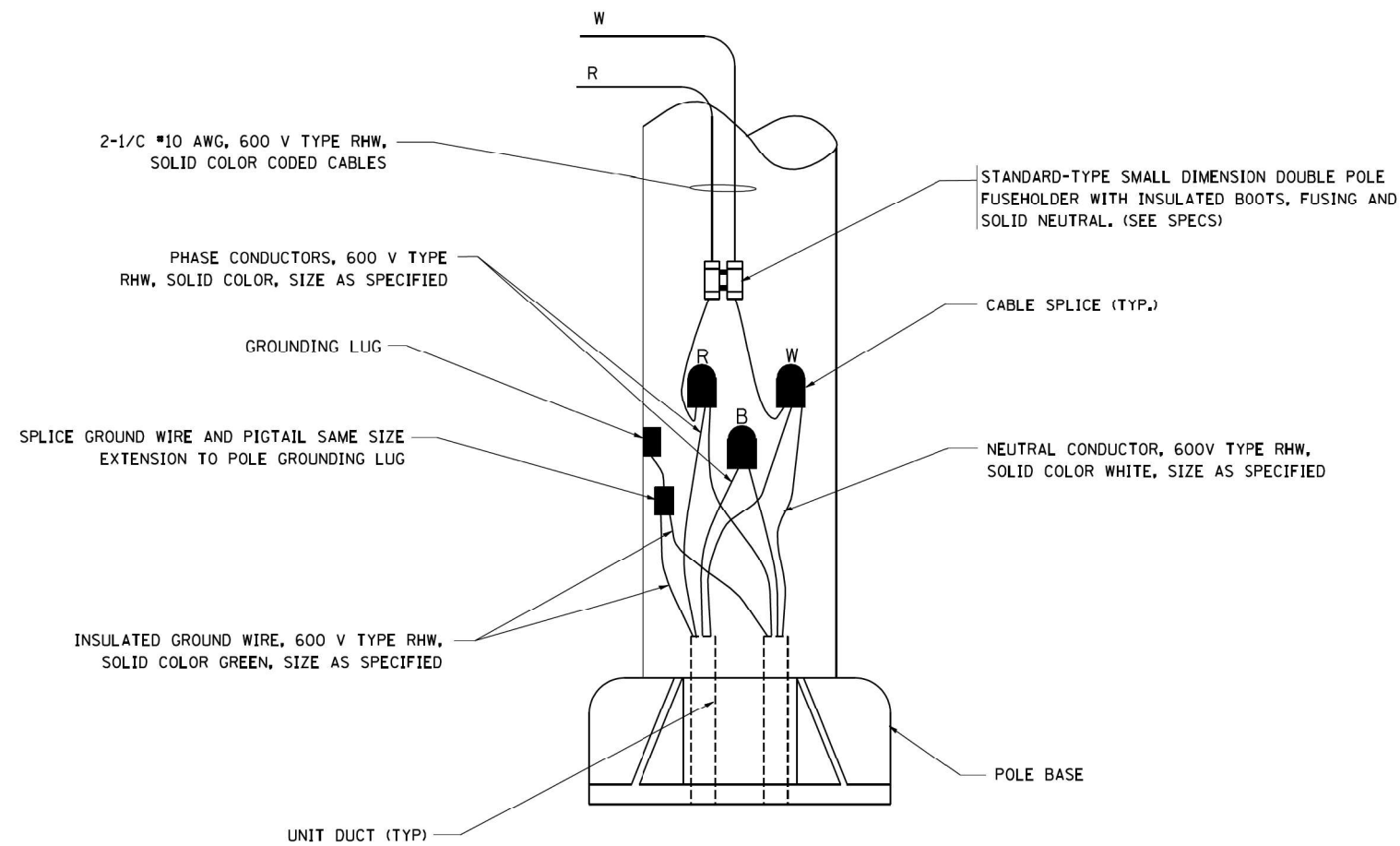
N.T.S.

NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.

MODEL: Default  
FILE NAME: F:\Projects\1060-var var -Bowman\W03\Design\Sheet\162M41--shc\light-05.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60515

USER NAME =	DESIGNED - BL	REVISED -
	CHECKED - MB	REVISED -
PLOT SCALE =	DRAWN - SR	REVISED -
PLOT DATE =	DATE - 04-14-2021	REVISED -

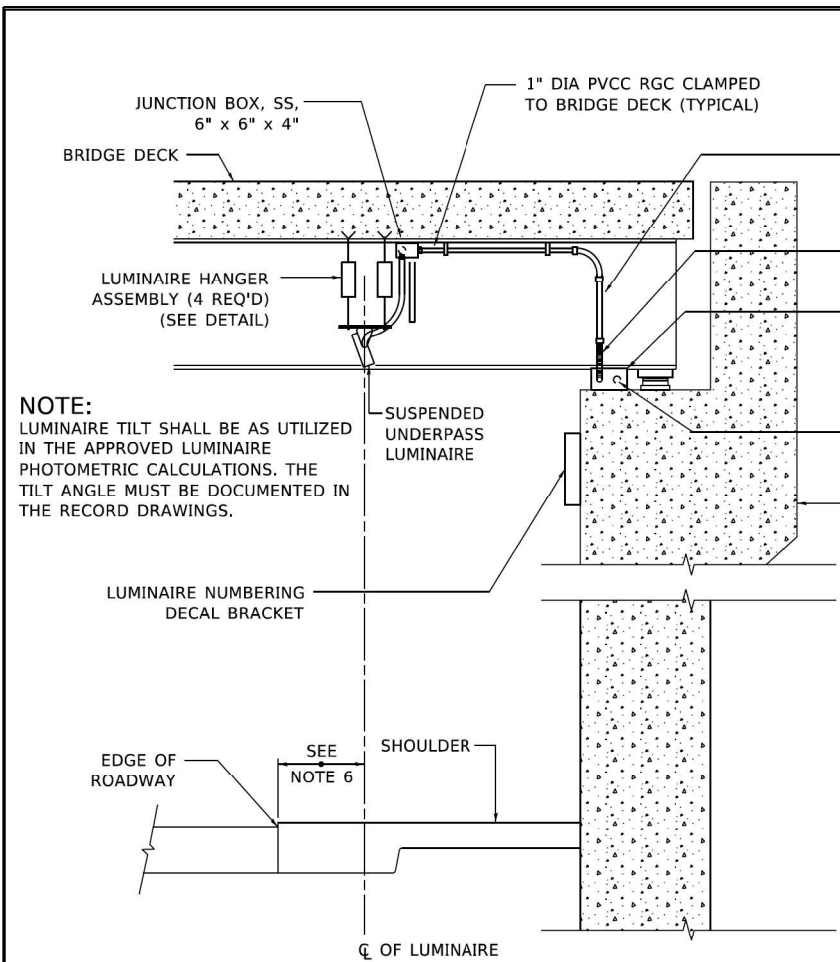
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS SHEET A  
130TH ST. OVER I-94

SHEET OF SHEETS

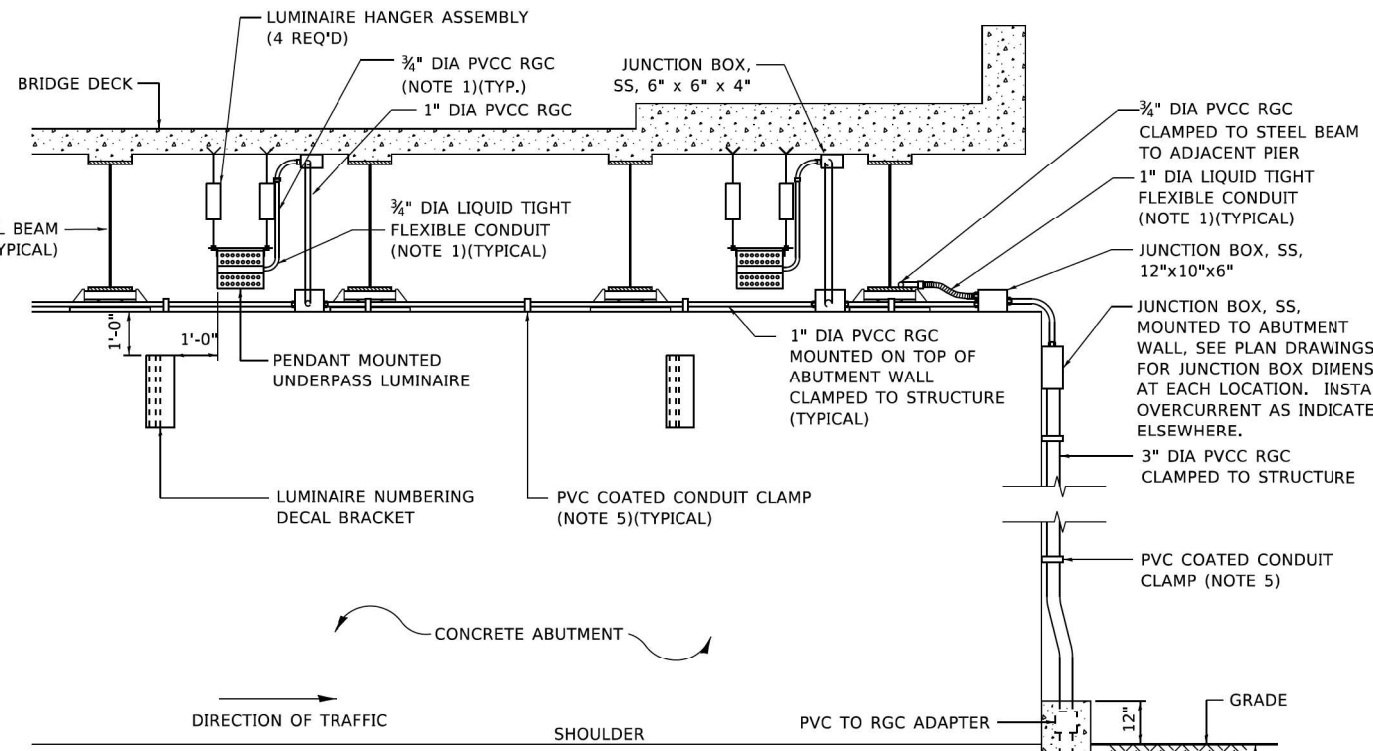
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TBD	2020-153-BR	COOK	85	70
CONTRACT NO. 62M41				
ILLINOIS FED. AID PROJECT				

LT-05

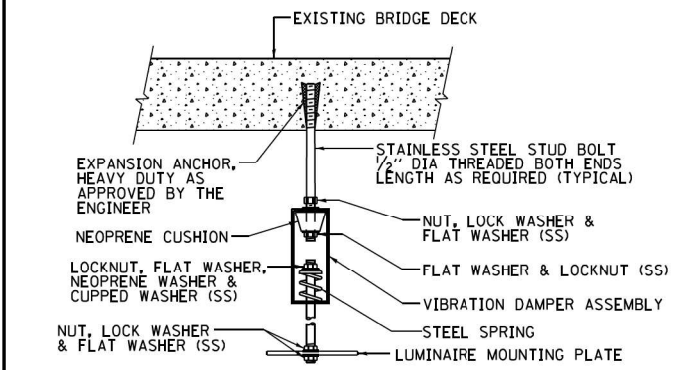


**NOTE:**  
LUMINAIRE TILT SHALL BE AS UTILIZED IN THE APPROVED LUMINAIRE PHOTOMETRIC CALCULATIONS. THE TILT ANGLE MUST BE DOCUMENTED IN THE RECORD DRAWINGS.

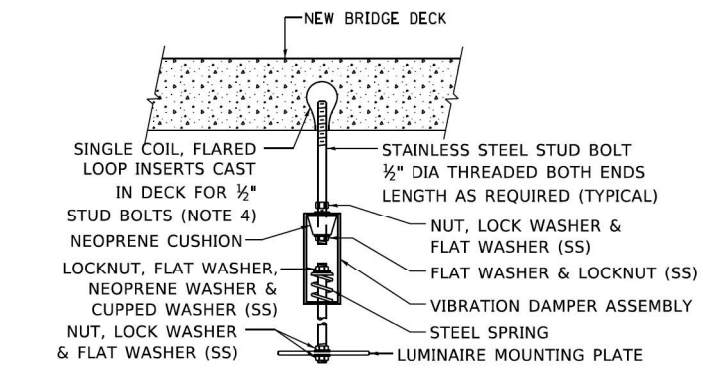
1" DIA PVCC RGC CLAMPED TO BRIDGE DECK (TYPICAL)  
1" DIA PVCC RGC CLAMPED TO STRUCTURE TO ADJACENT JUNCTION BOX  
1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (NOTE 1)(TYPICAL)  
JUNCTION BOX, SS, 12" X 10" X 6"  
1" DIA PVCC RGC CLAMPED TO STRUCTURE TO ADJACENT JUNCTION BOX  
CONCRETE ABUTMENT



- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT " DIA. CONDUIT AND " DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
  - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
  - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
  - THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
  - SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
  - ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
  - THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
  - ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.
  - IN NO INSTANCE SHALL ANY UNDERPASS LUMINAIRE OR ANY OTHER ELECTRICAL EQUIPMENT BE INSTALLED BELOW THE ELEVATION OF THE BOTTOM OF THE BRIDGE BEAM WHEN OVER ANY PAVEMENT (ROADWAY OR SHOULDER).

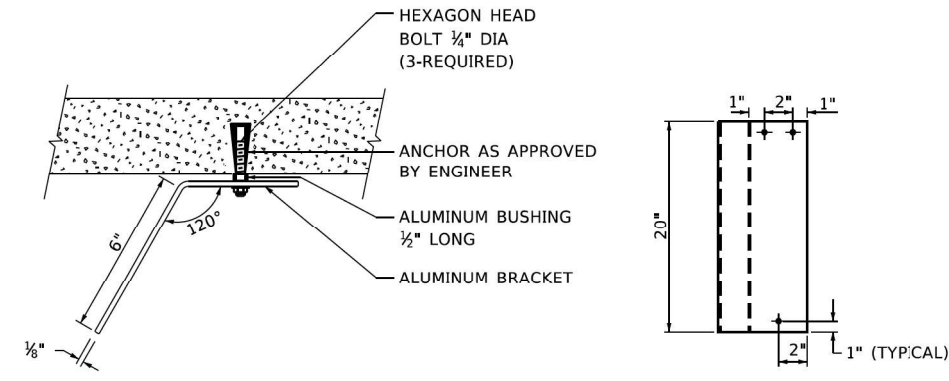


**EXISTING BRIDGE DECK INSTALLATION**



**NEW BRIDGE DECK INSTALLATION**

**TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS**

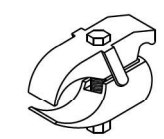


**TOP VIEW**

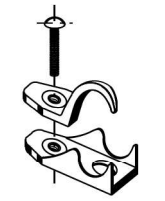
**ELEVATION**

**LUMINAIRE NUMBERING DECAL BRACKET**

NOT TO SCALE



**PVC COATED CONDUIT BEAM CLAMP**  
NOT TO SCALE



**PVC COATED CONDUIT CLAMP**  
NOT TO SCALE

MODEL: Default  
FILE NAME: F:\Projects\1060-var var -Bowman\W03\Design\Sheet\162M41--shl\light-06.dgn  
4/14/2021 11:43:21 AM

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60515

USER NAME =	DESIGNED - BL	REVISED -
PLOT SCALE =	CHECKED - MB	REVISED -
PLOT DATE =	DRAWN - SR	REVISED -
	DATE - 04-14-2021	REVISED -

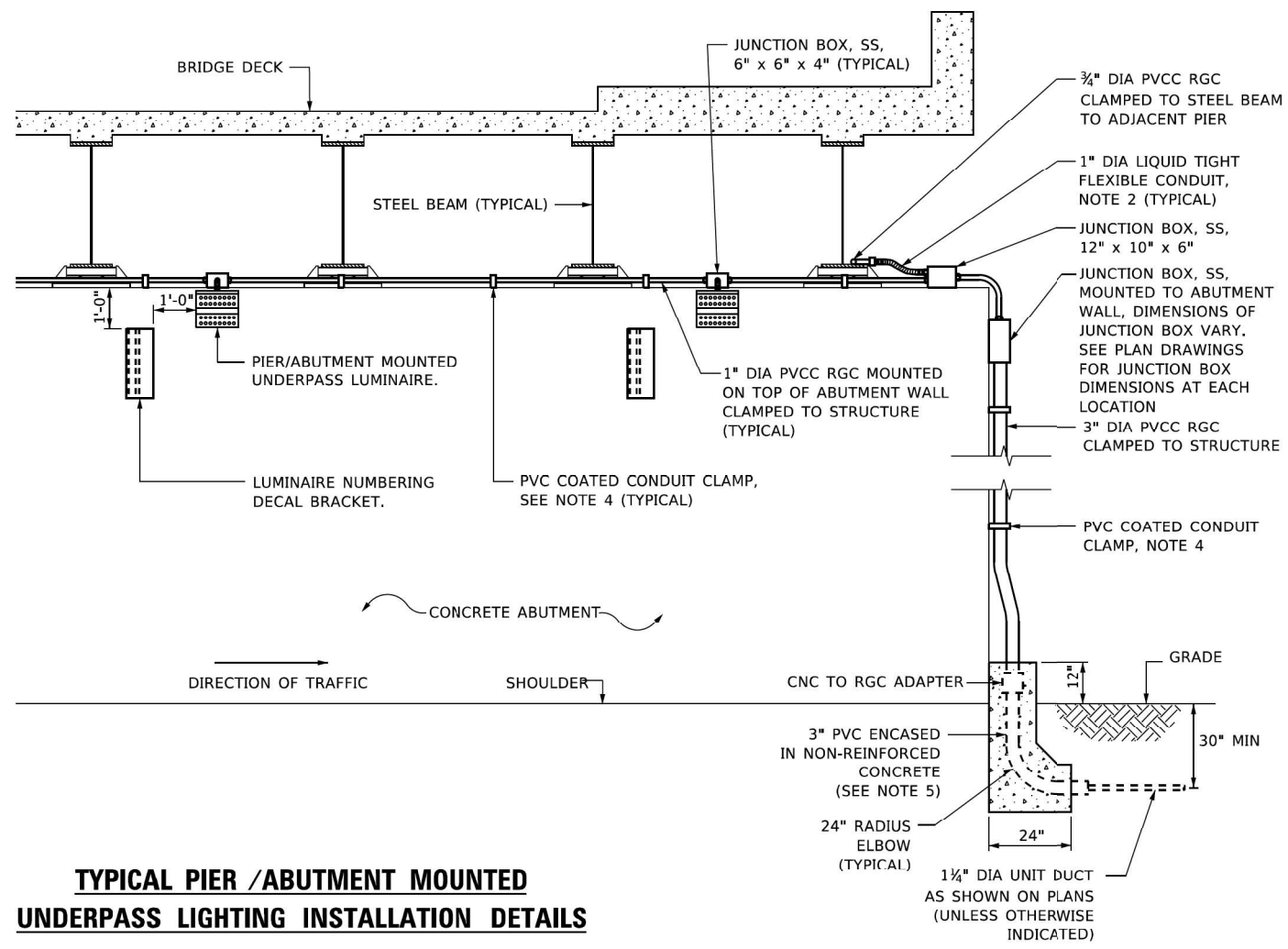
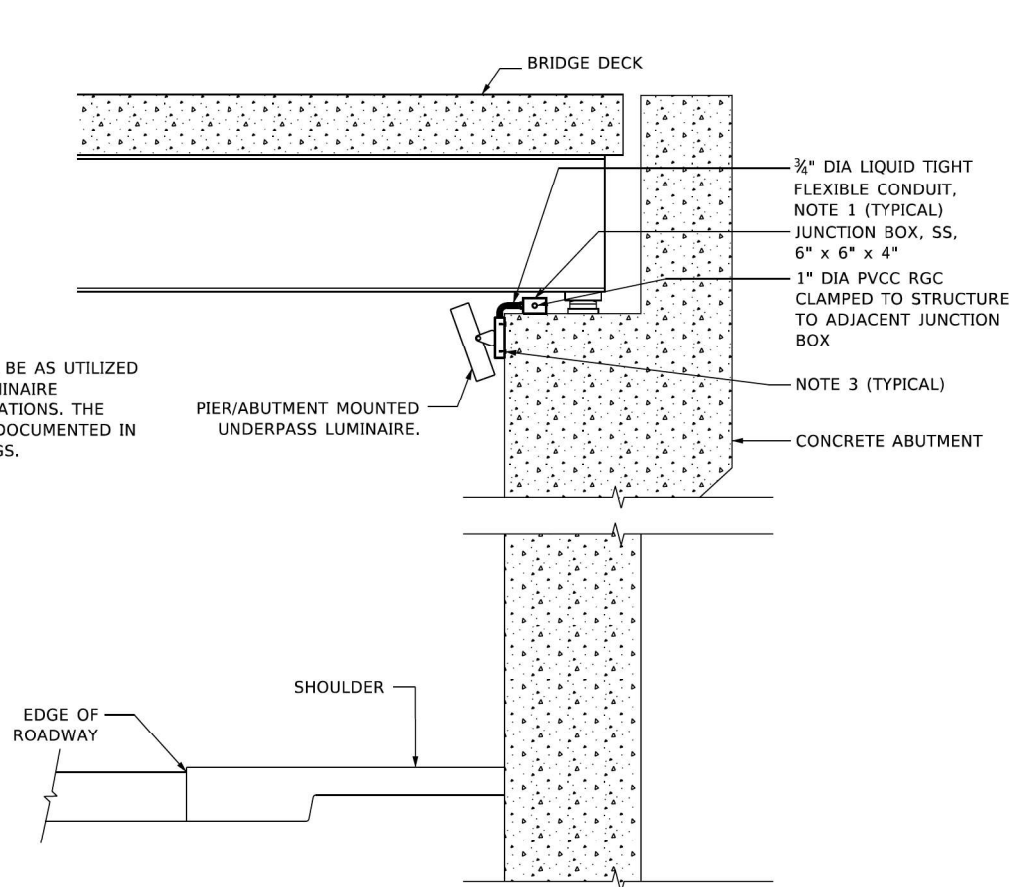
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS**  
**130TH ST. OVER I-94**

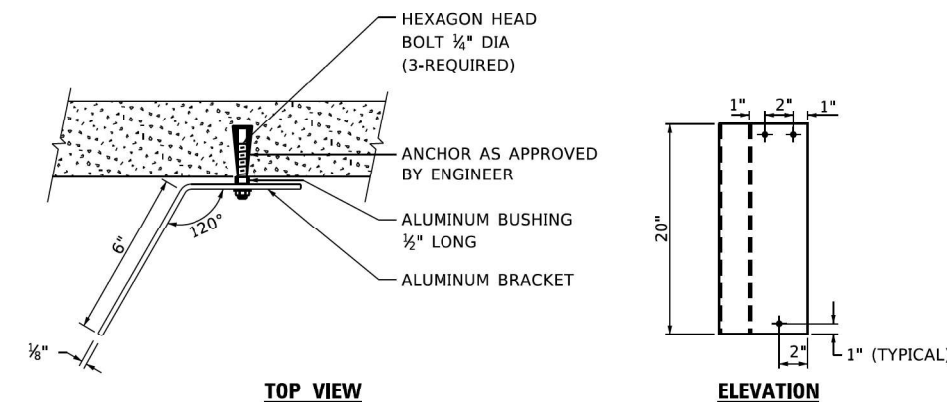
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TBD	2020-153-BR	COOK	85	71
CONTRACT NO. 62M41				
ILLINOIS		FED. AID PROJECT		



**NOTE:**  
LUMINAIRE TILT SHALL BE AS UTILIZED IN THE APPROVED LUMINAIRE PHOTOMETRIC CALCULATIONS. THE TILT ANGLE MUST BE DOCUMENTED IN THE RECORD DRAWINGS.

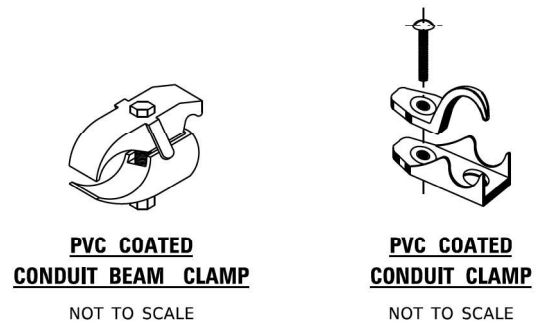


**TYPICAL PIER /ABUTMENT MOUNTED UNDERPASS LIGHTING INSTALLATION DETAILS**



**LUMINAIRE NUMBERING DECAL BRACKET**

NOT TO SCALE



**NOTES:**

- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT THE COST OF THE " DIA. RIGID STEEL CONDUIT AND " DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE LUMINAIRE INSTALLATION.
- SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
- UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL WITH 1/2" ALUMINUM SPACERS, MOUNTING HEIGHT OF 1" BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES UNLESS OTHERWISE NOTED.
- EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
- ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.

MODEL: Default  
FILE NAME: F:\Projects\1060-var -Bowman\W03\Design\Sheet\1062M41--shl-light-07.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Road, Suite 4B  
Downers Grove, IL 60515

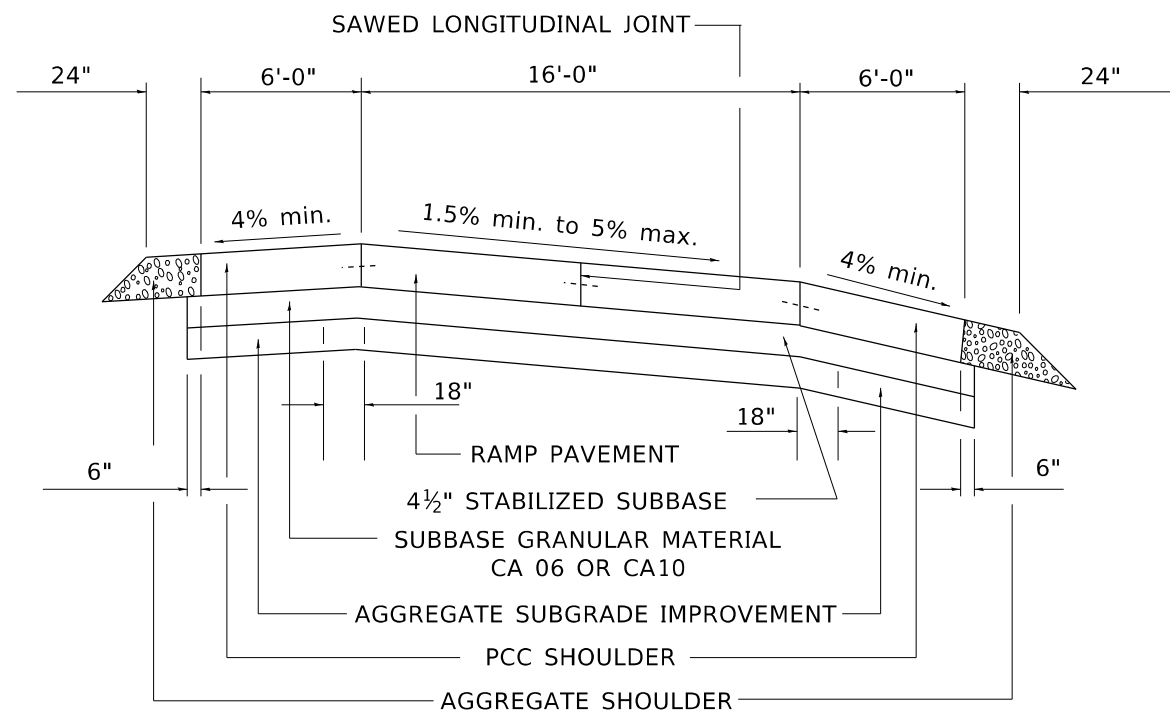
USER NAME =	DESIGNED - BL	REVISED -
CHECKED - MB	REVISED -	
PLOT SCALE =	DRAWN - SR	REVISED -
PLOT DATE =	DATE - 04-14-2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PIER MOUNTED LED UNDERPASS LUMINAIRE INSTALLATION DETAILS**  
**130TH ST. OVER I-94**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TBD	2020-153-BR	COOK	85	71A
CONTRACT NO. 62M41				
ILLINOIS		FED. AID PROJECT		

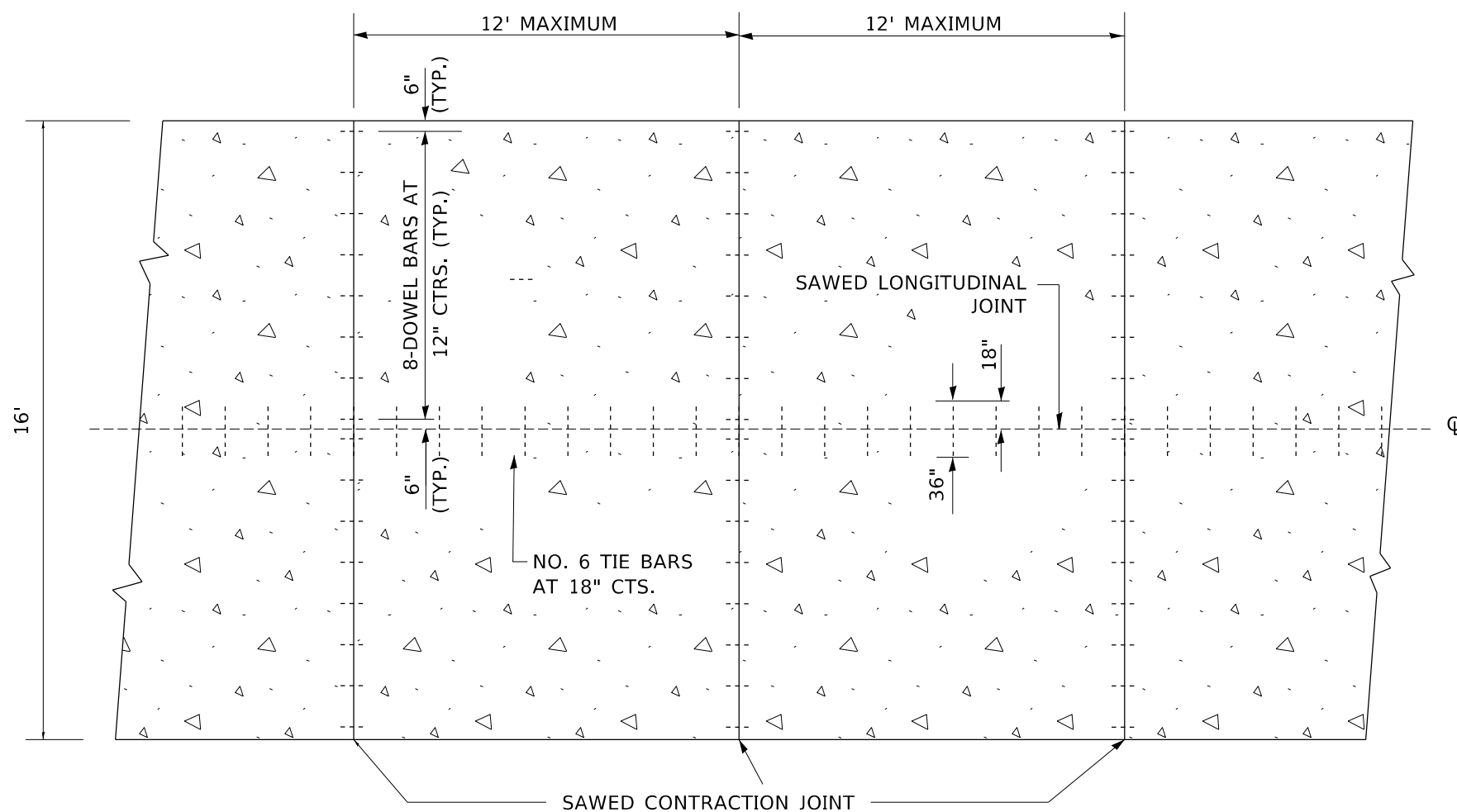
LT-07



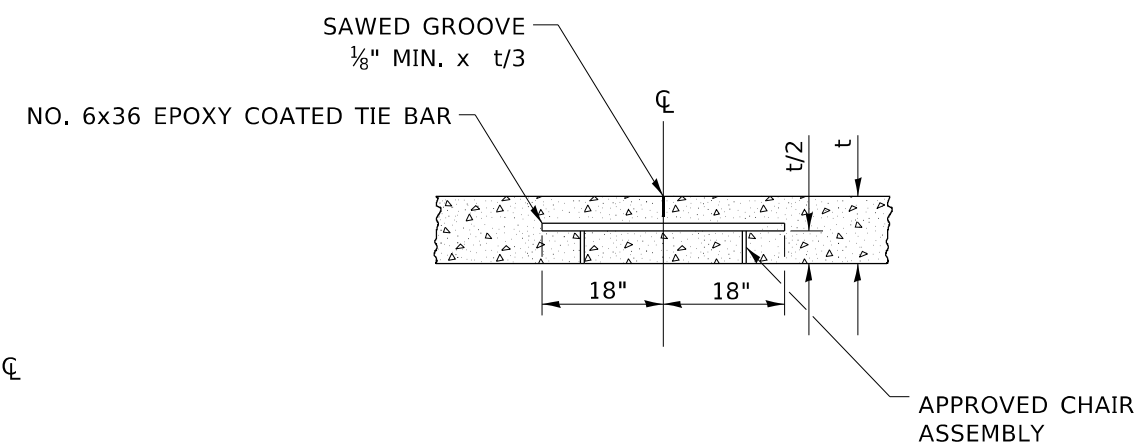
**SECTION**

**NOTES:**

1. CENTERLINE JOINT REMAINS IN THE CENTER WHEN RAMP TRANSITIONS TO TWO (2) RAMPS AT 12'.
2. ALL BARS TO BE EPOXY COATED.



**PLAN**



**SAWED LONGITUDINAL JOINT**

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

MODEL: Default  
FILE: M:\MFE\_Plan\planroom.dwg  
I:\Projects\115422\23A\CD\Drawings\CD\Sheet148.dwg

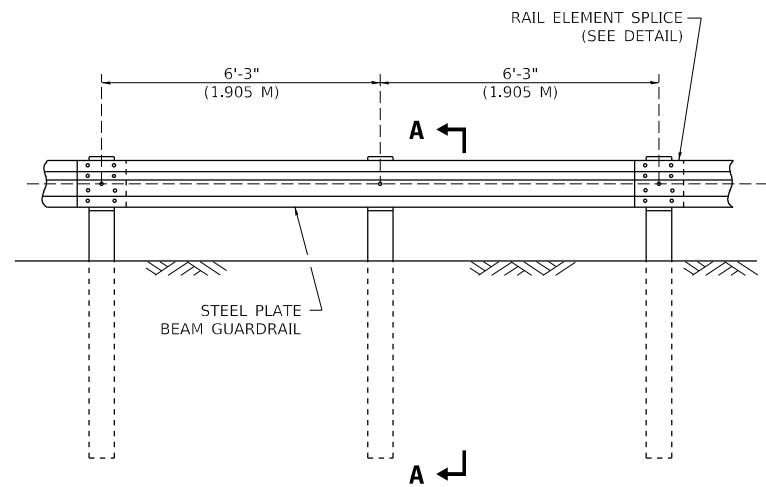
USER NAME = footemj	DESIGNED -	REVISED --TOM MATOUSEK 08/19/10
PLOT SCALE = 50.0000 1 / in.	DRAWN - TOM MATOUSEK	REVISED --
PLOT DATE = 3/27/2019	CHECKED - A. ABBAS	REVISED --
	DATE - 10-18-02	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAIL FOR CENTERLINE SAW CUT 16' AND  
VARIABLE JOINTED PCC PAVEMENT FOR RAMPS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

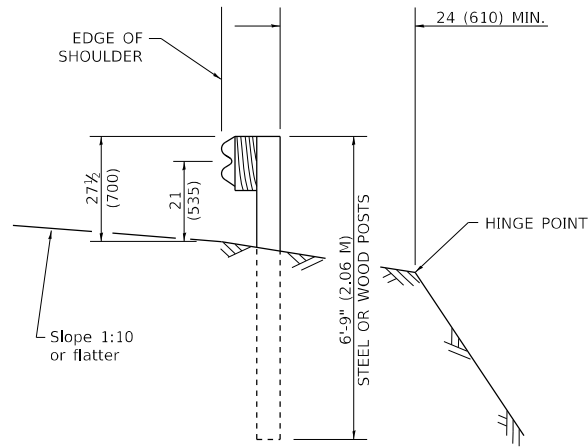
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	72
BD49			CONTRACT NO. 62M41	
ILLINOIS FED. AID PROJECT				



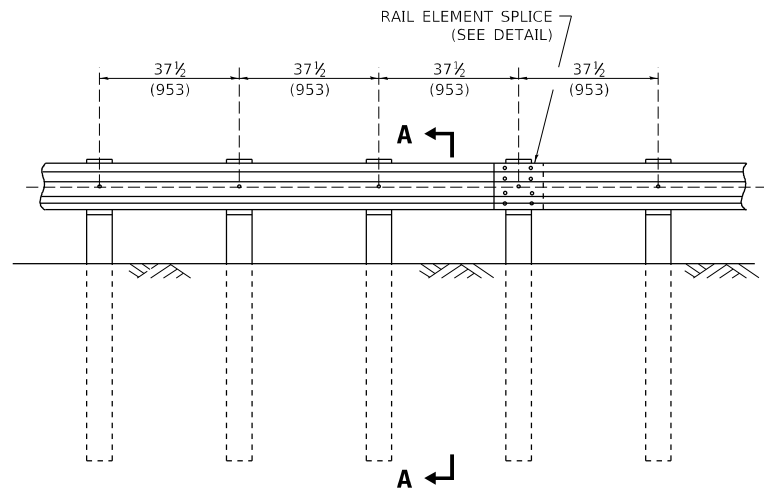
**ELEVATION**

**TYPE A**

6'-3" (1.905 M) TYPICAL POST SPACING



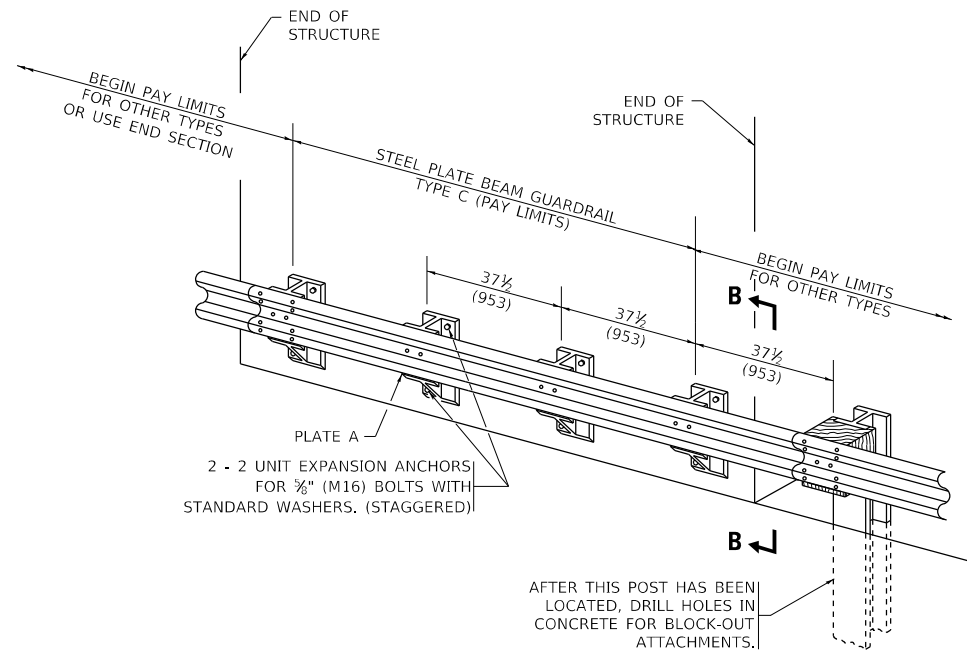
**SECTION A-A**



**ELEVATION**

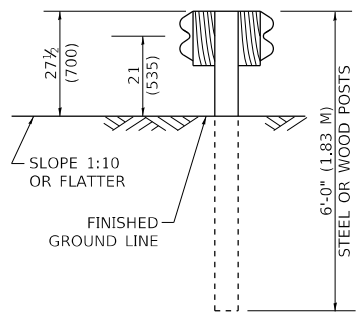
**TYPE A**

37 1/2 (953) CLOSED POST SPACING

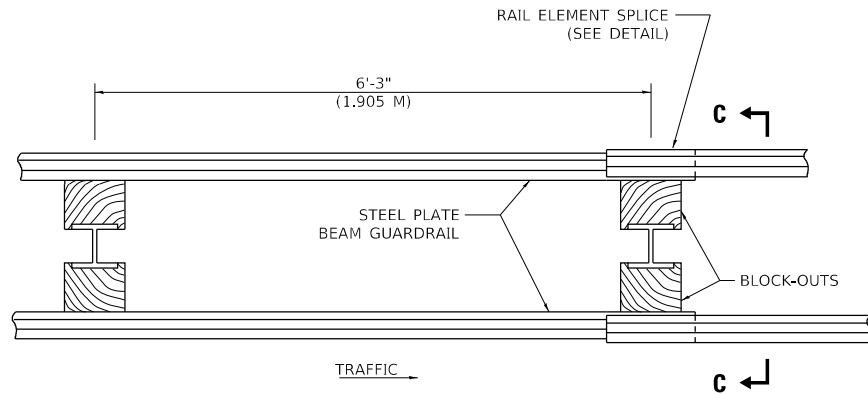


**TYPE C**

37 1/2 (953) BLOCK-OUT SPACING



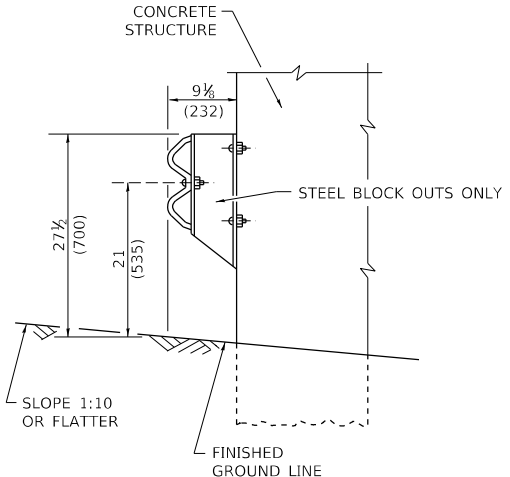
**SECTION C-C**



**PLAN**

**TYPE D**

DOUBLE STEEL PLATE BEAM GUARDRAIL  
6'-3" (1.905 M) TYPICAL POST SPACING



**SECTION B-B**

**GENERAL NOTES**

- ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE EXISTING STEEL POSTS MAY BE DRILLED TO MATCH THE BOLT PATTERN SHOWN HEREIN FOR THE WOOD BLOCK-OUT, OR A NEW STEEL POST SHALL BE PROVIDED.
- THIS DETAIL IS APPLICABLE TO THE GUARDRAIL SYSTEM USED PRIOR TO JANUARY 1, 2007. FOR DETAILS ON THE MIDWEST GUARDRAIL SYSTEM, SEE STANDARD 630001.

MODEL: Default  
FILE: M:\MTE\_pur\uplanroom.dwg  
PROJECTS\DOT\Documents\DOT\_Offices\District\_1\Projects\IHS502234\CD\Drawings\Sheet\bm21.dwg

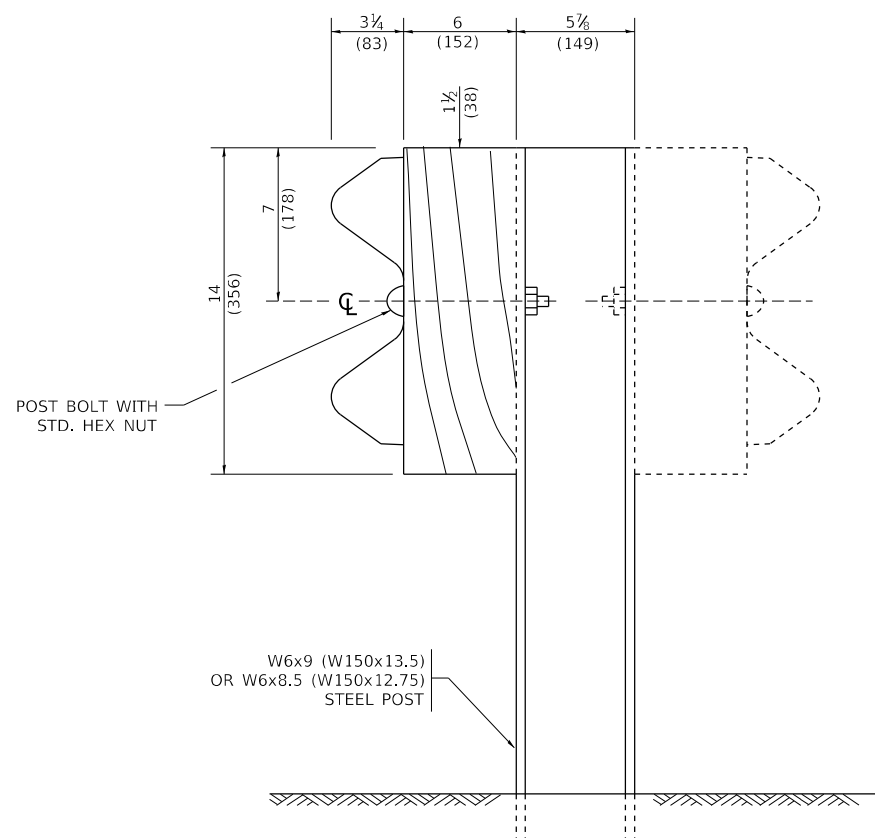
USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 1 / in.	CHECKED -	REVISED -
PLOT DATE = 3/11/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

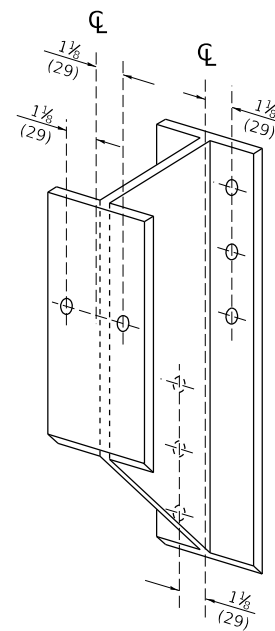
**REMOVE AND REERECT  
STEEL PLATE BEAM GUARDRAIL**

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

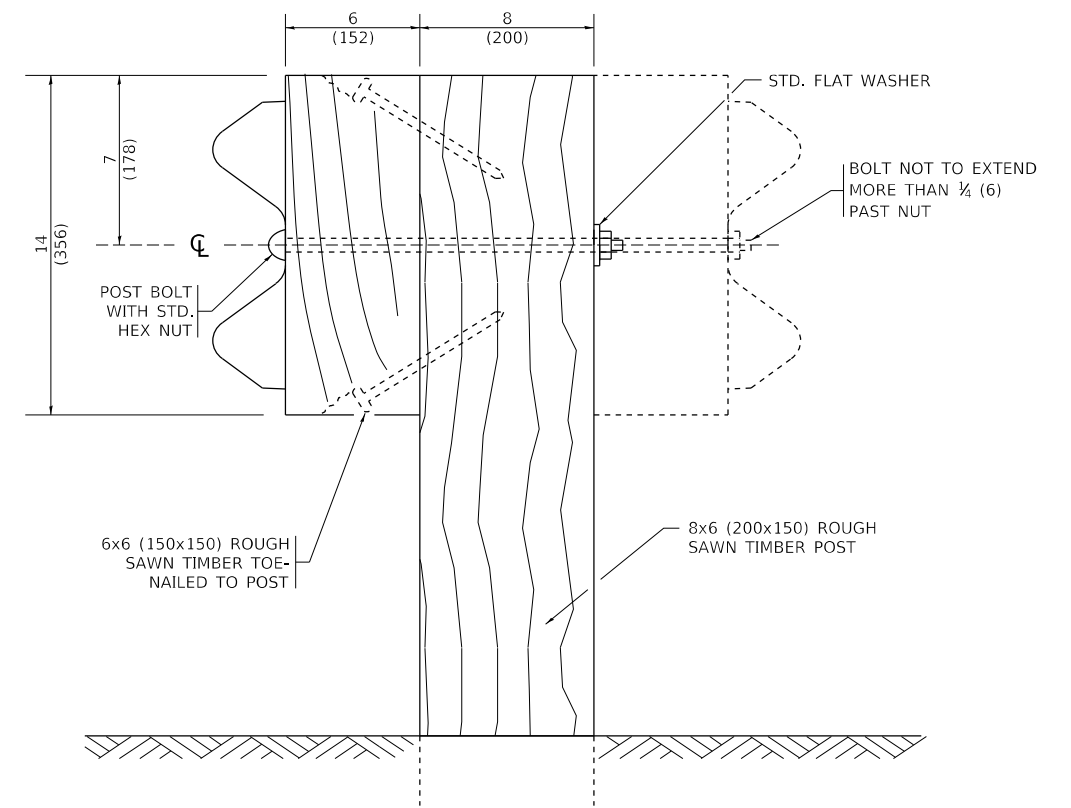
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	73
	BM-21		CONTRACT NO. 62M41	
		ILLINOIS	FED. AID PROJECT	



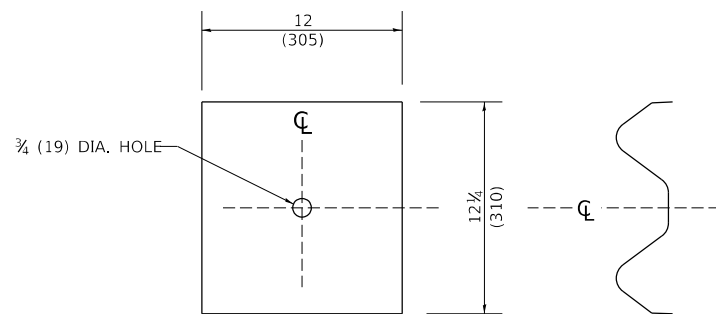
**STEEL POST CONSTRUCTION**



**STEEL BLOCK-OUT DETAIL**



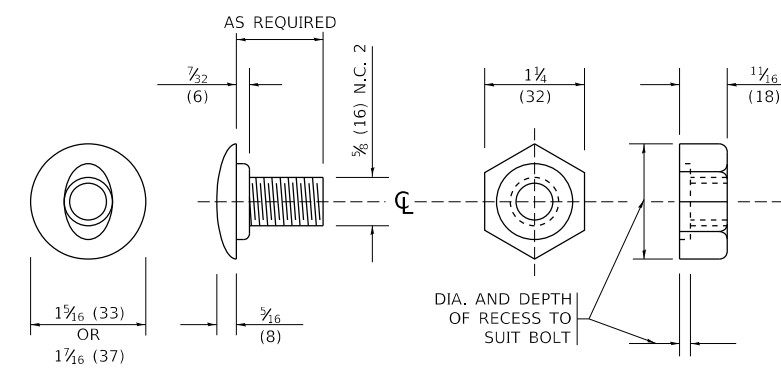
**WOOD POST CONSTRUCTION**



**NOTE:**

PLATE A SHALL BE PLACED BETWEEN RAIL ELEMENT AND BLOCK-OUT AT NON-SPLICE MOUNTING POINTS ONLY WHEN STEEL BLOCK-OUTS ARE USED.

**PLATE A**



**POST OR SPLICE BOLT & NUT**

MODEL: D:\draft...  
FILE NAME: p:\uplanroom\dwt\_illinois\pwr\PI\DOT\Documents\DOT\_Offices\District\_1\Projects\Dist5022\3A\CD\Draw\CD\sheet31m21.dgn

USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/11/2019	DATE -	REVISED -

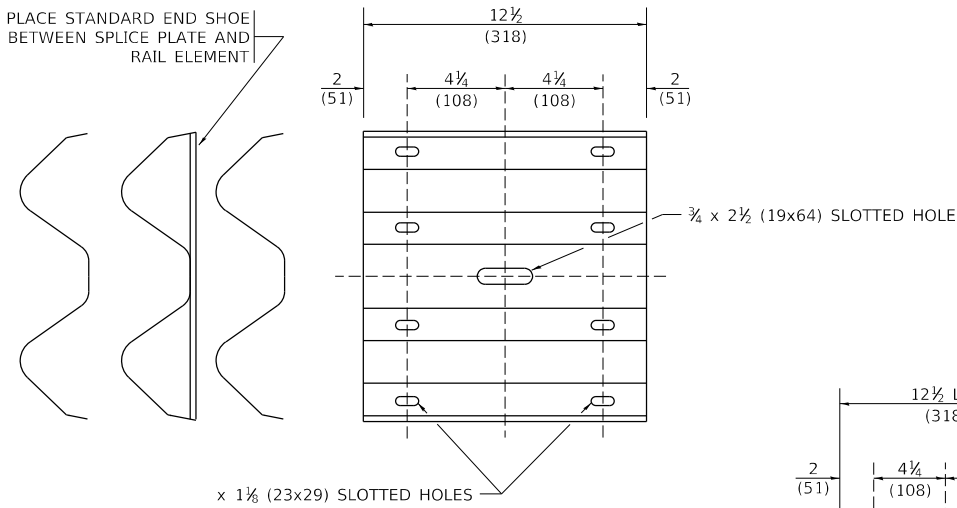
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVE AND REERECT  
STEEL PLATE BEAM GUARDRAIL**

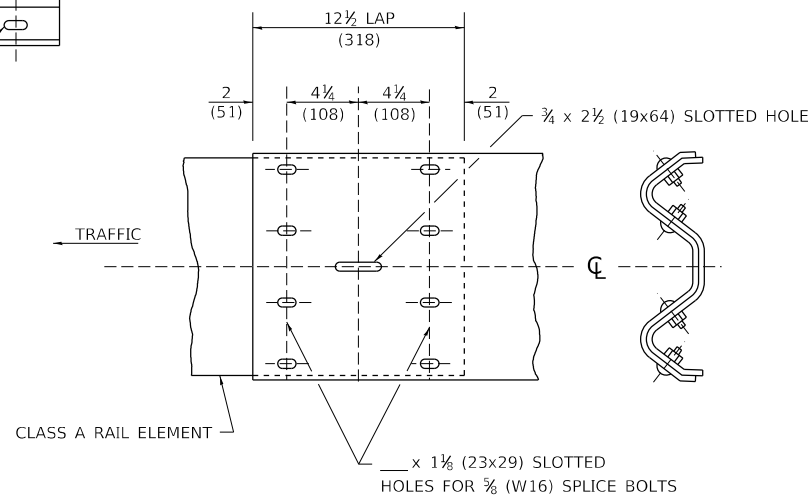
SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	74
BM-21		CONTRACT NO. 62M41		
ILLINOIS FED. AID PROJECT				

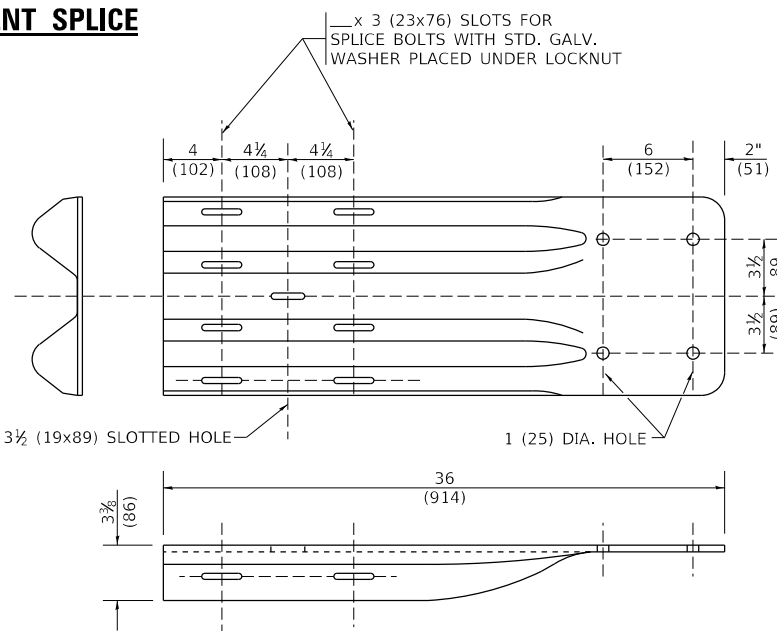
PLACE STANDARD END SHOE BETWEEN SPLICE PLATE AND RAIL ELEMENT



**SPLICE PLATE**



**RAIL ELEMENT SPLICE**



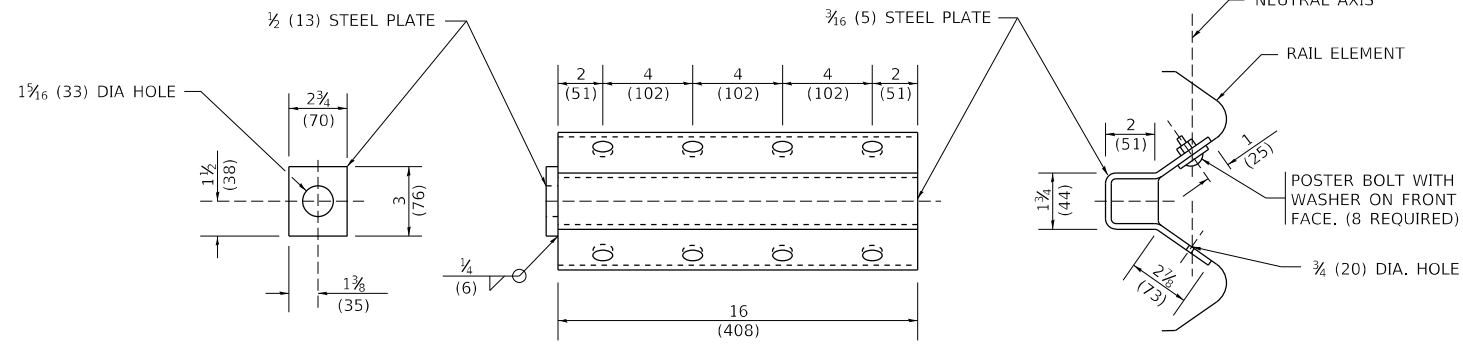
**END SHOE**

NOTE:

WHEN END SHOE IS ATTACHED TO A BRIDGE PARAPET WHICH HAS AN EXPANSION JOINT, THE BOLTS SHALL BE PROVIDED WITH A LOCKNUT OR DOUBLE NUT AND SHALL BE TIGHTENED ONLY TO A POINT THAT WILL ALLOW GUARDRAIL MOVEMENT.

THE STANDARD END SHOE SHALL BE ATTACHED TO THE CONCRETE WITH PRE-DRILLED OR SELF-DRILLING ANCHOR BOLTS. THE ANCHOR CONE SHALL BE SET FLUSH WITH THE SURFACE OF THE CONCRETE.

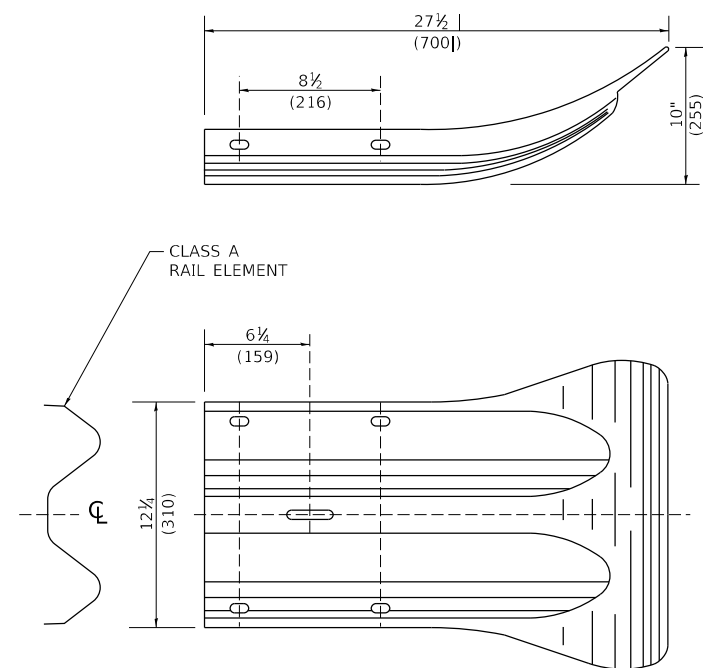
EXTERNALLY THREADED STUDS PROTRUDING FROM THE SURFACE OF THE CONCRETE WILL NOT BE PERMITTED.



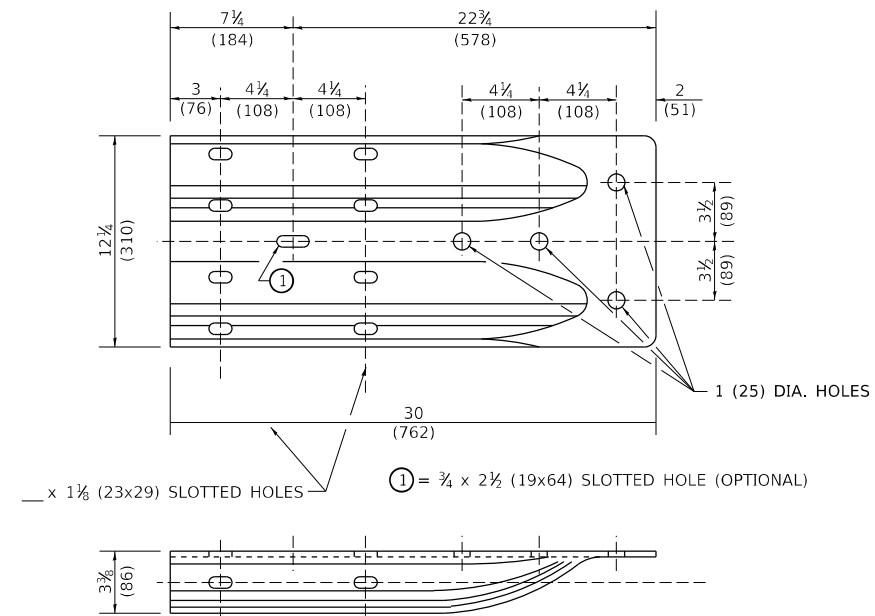
NOTE:

ANCHOR PLATE T SHALL BE USED TO ATTACH CABLE ASSEMBLY TO GUARDRAIL WHEN REQUIRED ON TRAFFIC BARRIER TERMINALS.

**ANCHORE PLATE T DETAILS**



**END SECTION**



**ALTERNATE END SHOE**

MODEL: D:\default... FILE: MainE... PROJECTS\DOT\Documents\DOT\_Offices\District\_1\Projects\DOT\Documents\DOT\_Offices\District\_1\Projects\DOT\Documents\DOT\_Offices\District\_1.dgn

USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/11/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

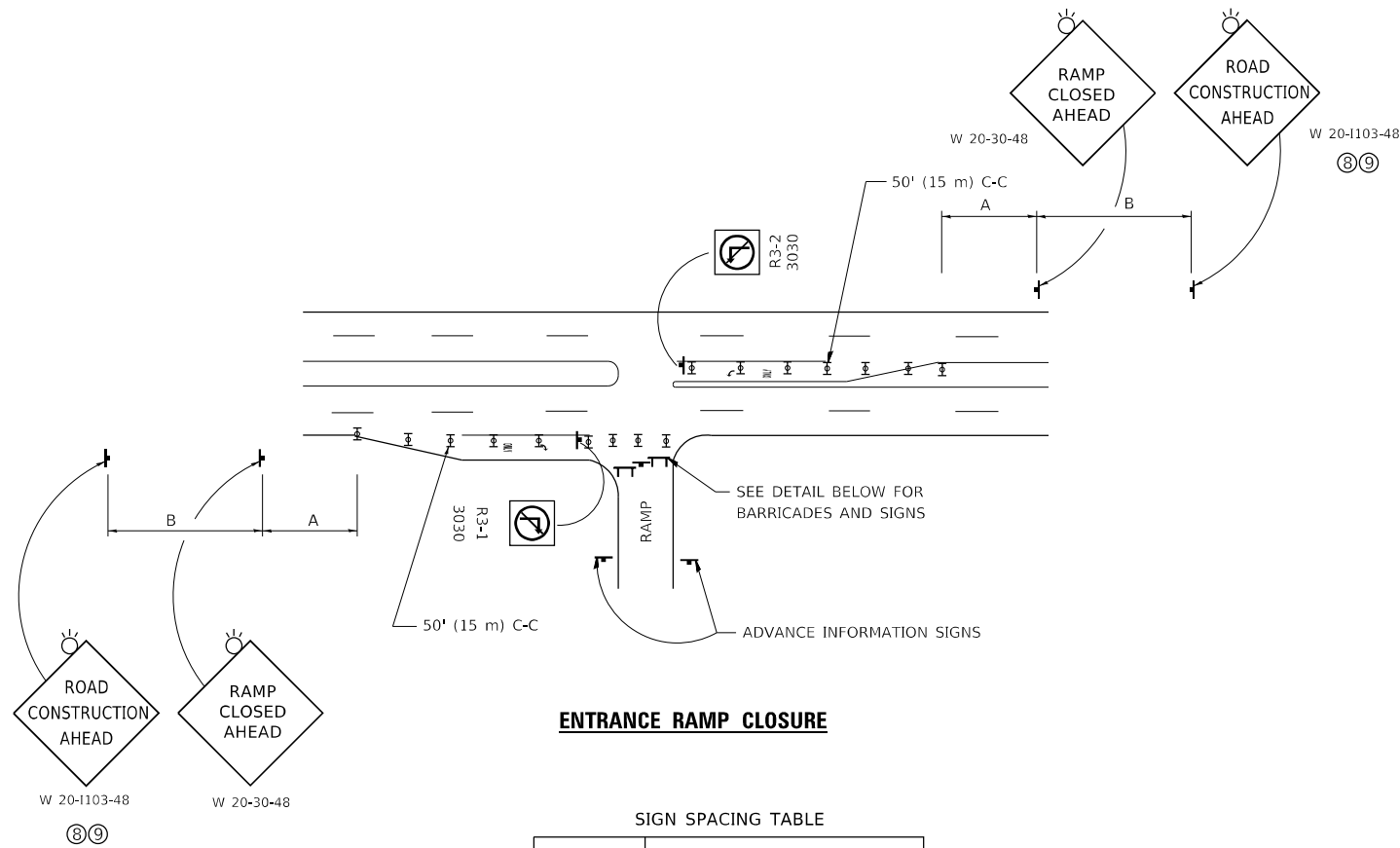
**REMOVE AND REERECT  
STEEL PLATE BEAM GUARDRAIL**

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	75
BM-21		CONTRACT NO. 62M41		
ILLINOIS FED. AID PROJECT				



MODEL: D:\draft FILE: NAME: p:\u10848EBID\ITEG\_ILLINOIS\pov\RWIDOT\Documents\DOT\_Offices\District 1\Projects\1515422-234\CAD\Drawings\CAD\sheet\1515422.dwg

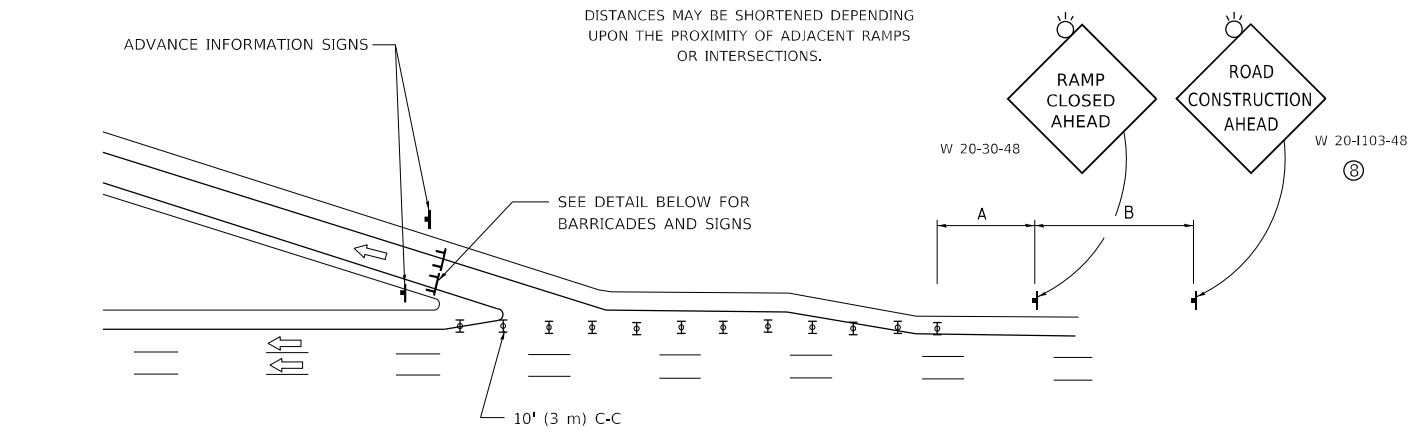


**ENTRANCE RAMP CLOSURE**

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

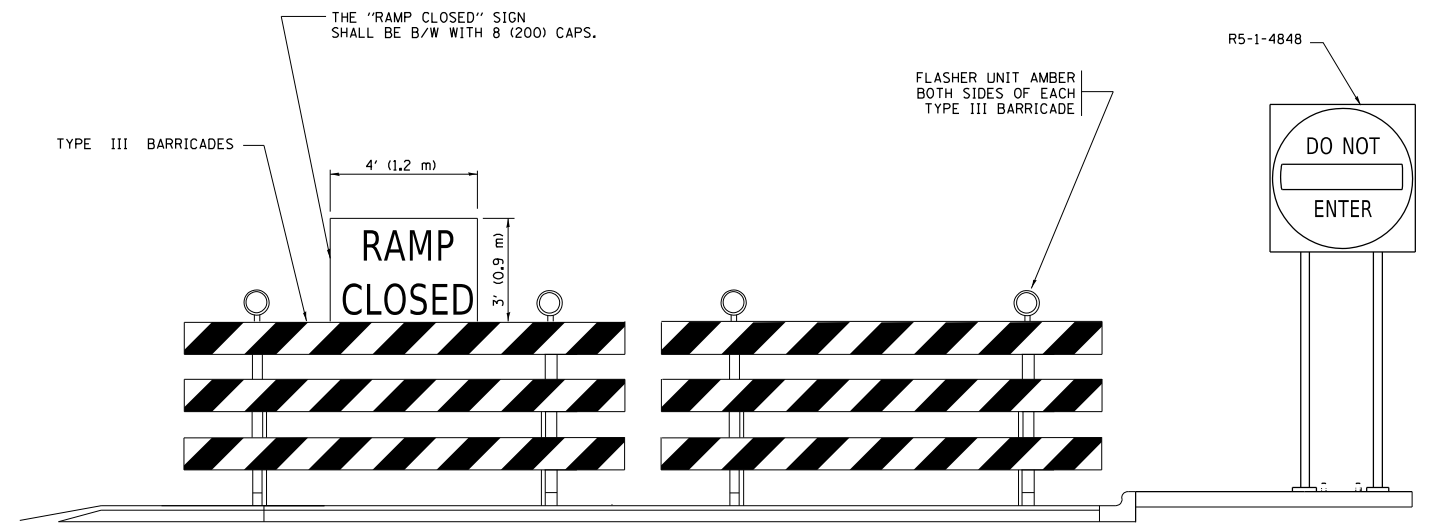
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

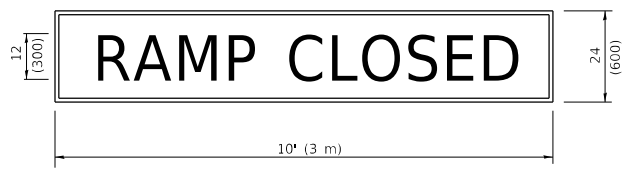
**SYMBOLS**

- TYPE II BARRICADE OR DRUM
- TYPE III BARRICADE WITH 2 FLASHING LIGHTS



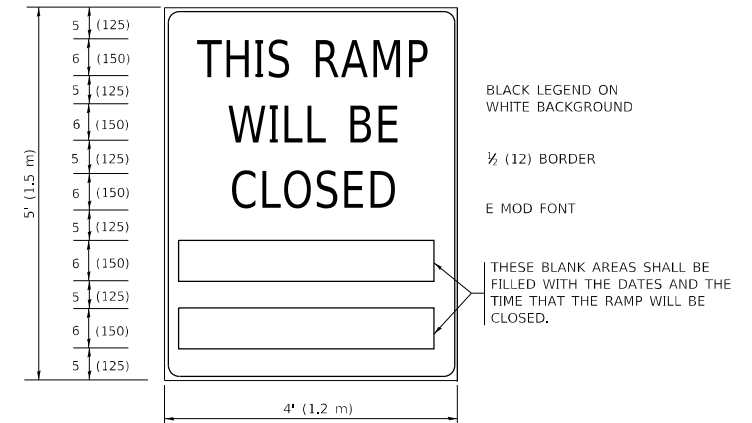
**DETAIL FOR REQUIRED BARRICADES & SIGNS**

**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY  
E MOD FONT  
1 (25) BORDER  
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.  
THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

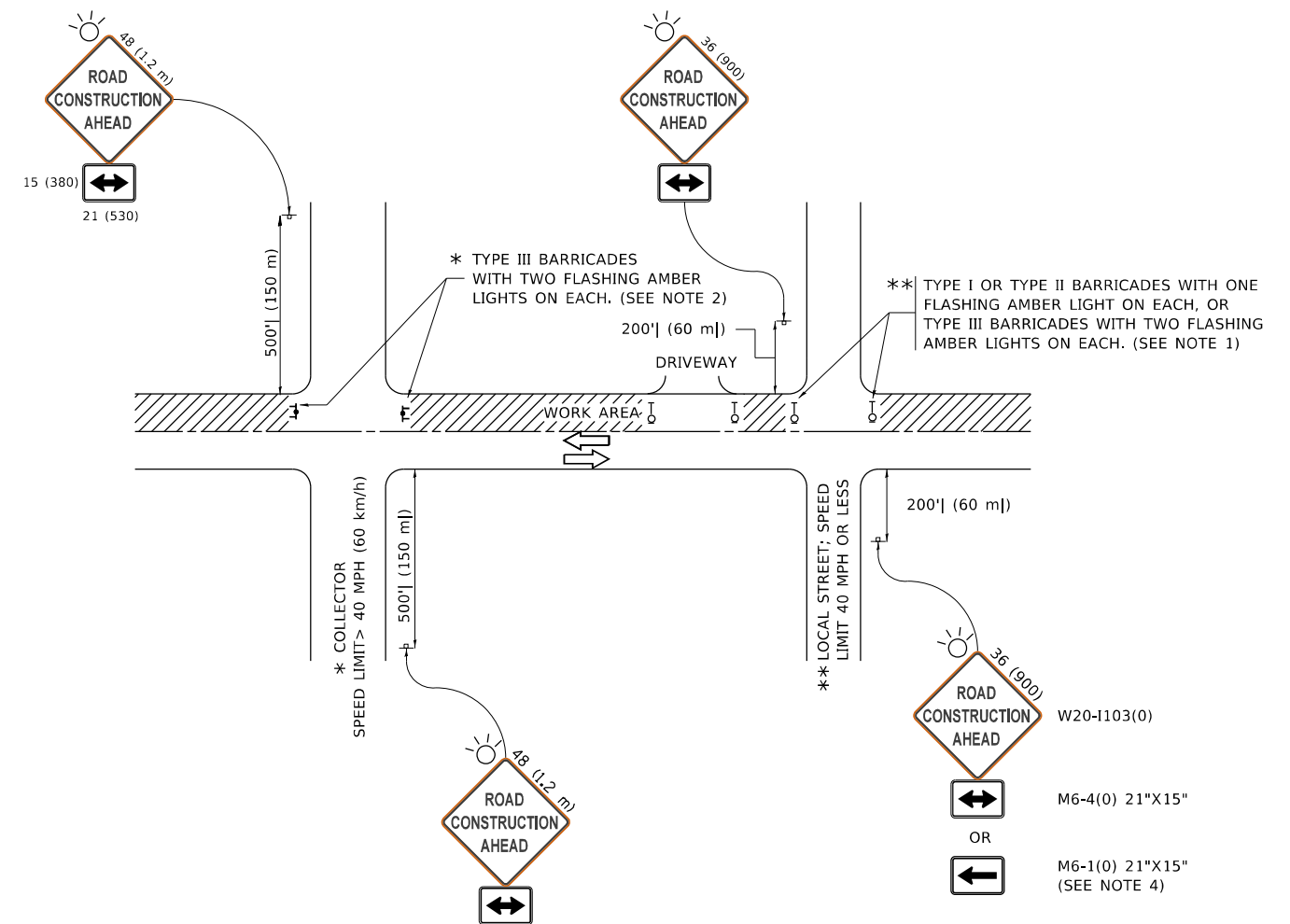
USER NAME = footemj	DESIGNED - D.W.S.	REVISED - S.P.B._01-07
DRAWN -	REVISED - S.P.B._12-09	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M.D._06-13
PLOT DATE = 3/4/2019	DATE - 02-83	REVISED - M.D._01-18

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE\_AND\_EXIT\_RAMP  
CLOSURE\_DETAILS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	77
<b>TC-08</b>		CONTRACT NO. 62M41		
ILLINOIS		FED. AID PROJECT		



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

MODEL: D:\draft  
 FILE NAME: p:\1108\BEBIDNTEG\_ILlinis.gov\RWIDOT\Documents\DOT\_Offices\District\_1\Projects\DH5422\340\CAD\Draws\CAD\Sheet\TC10.dgn

USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

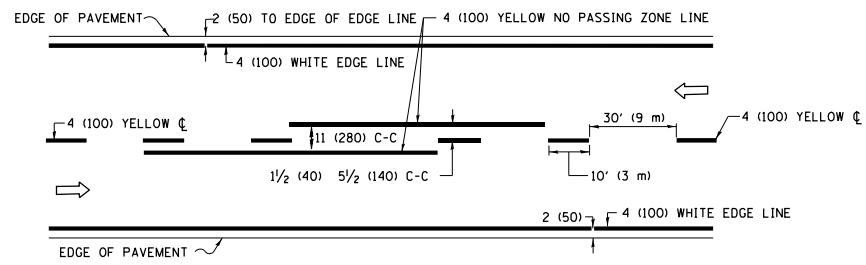
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

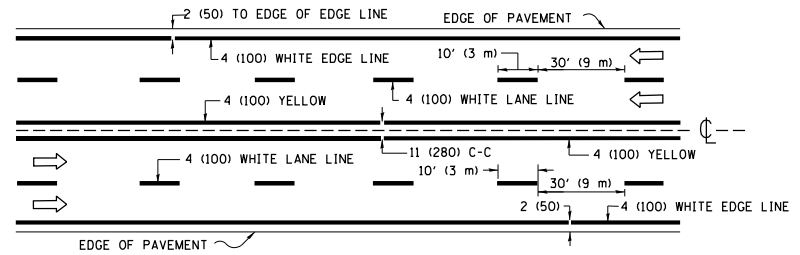
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	78
<b>TC-10</b>			CONTRACT NO. 62M41	
ILLINOIS FED. AID PROJECT				

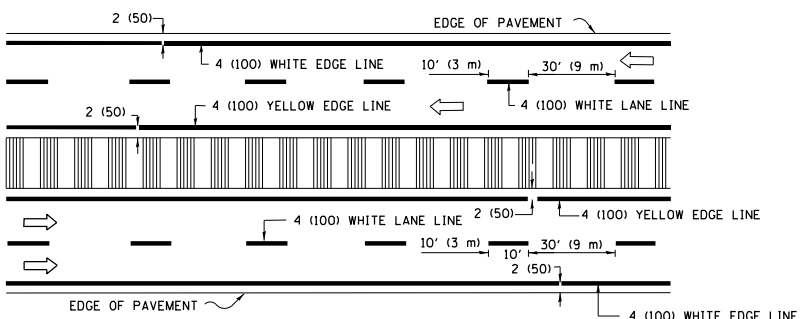




**2-LANE ROADWAY**

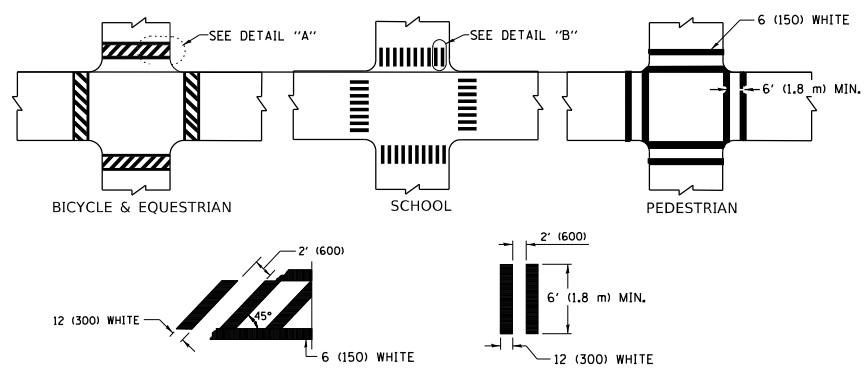


**MULTI-LANE UNDIVIDED**



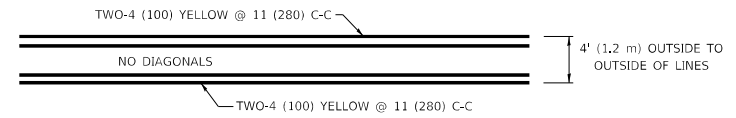
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

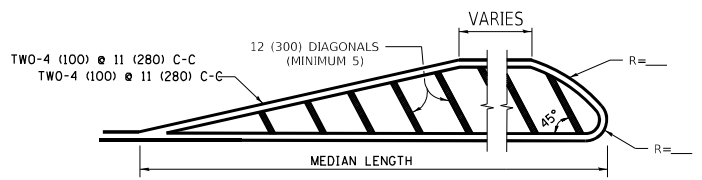


**TYPICAL CROSSWALK MARKING**

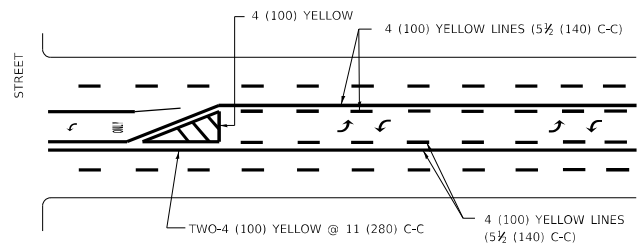
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



**4' (1.2 m) WIDE MEDIANS ONLY**

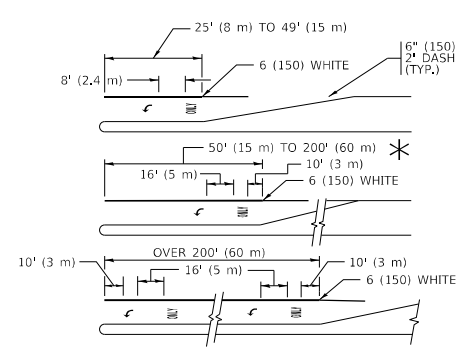


**MEDIANS OVER 4' (1.2 m) WIDE**



**TYPICAL PAINTED MEDIAN MARKING**

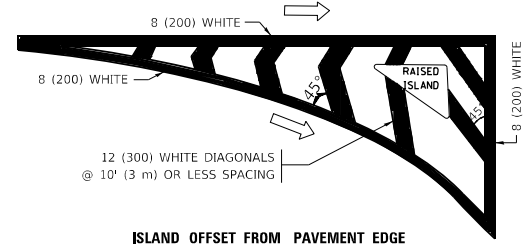
**MEDIAN WITH TWO-WAY LEFT TURN LANE**



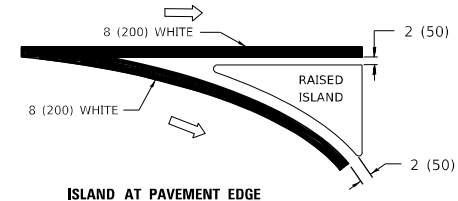
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

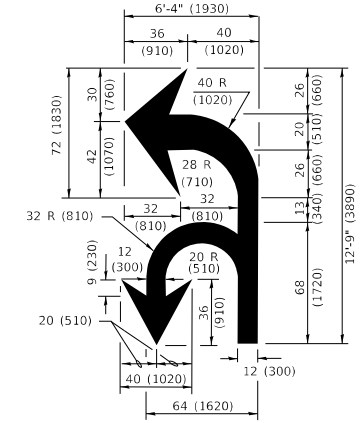


**ISLAND OFFSET FROM PAVEMENT EDGE**

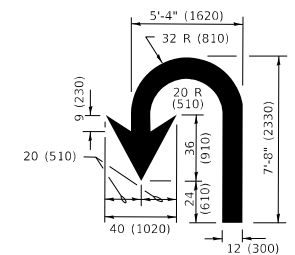


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" IS 8' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

MODEL: D:\draft... FILE NAME: ...

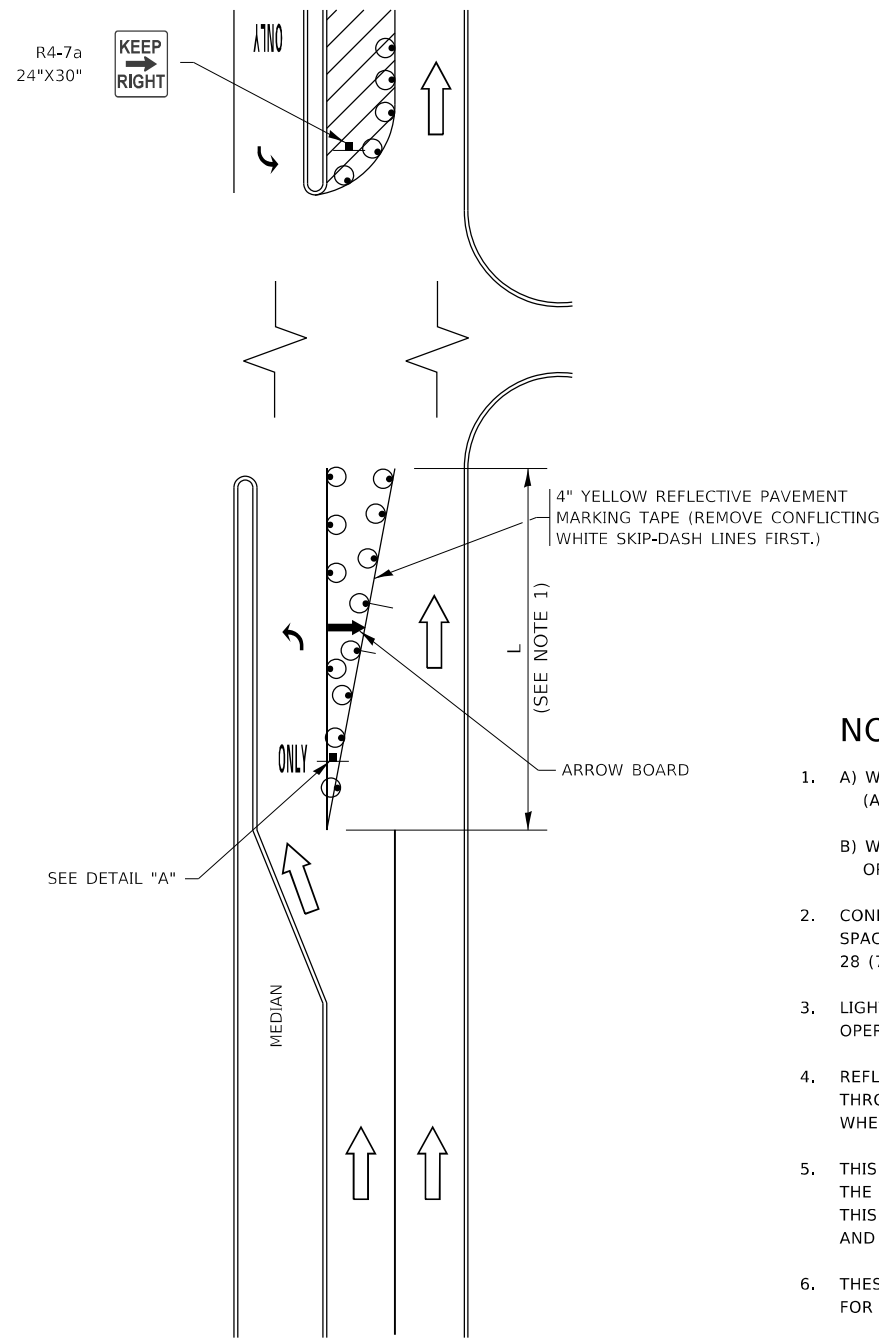
USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 50.0000 1' / in.	CHECKED -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>TYPICAL PAVEMENT MARKINGS</b>		0344	2020-261-BR	COOK	85	79
SCALE: NONE		SHEET 1 OF 2 SHEETS		STA. TO STA.	CONTRACT NO. 62M41	

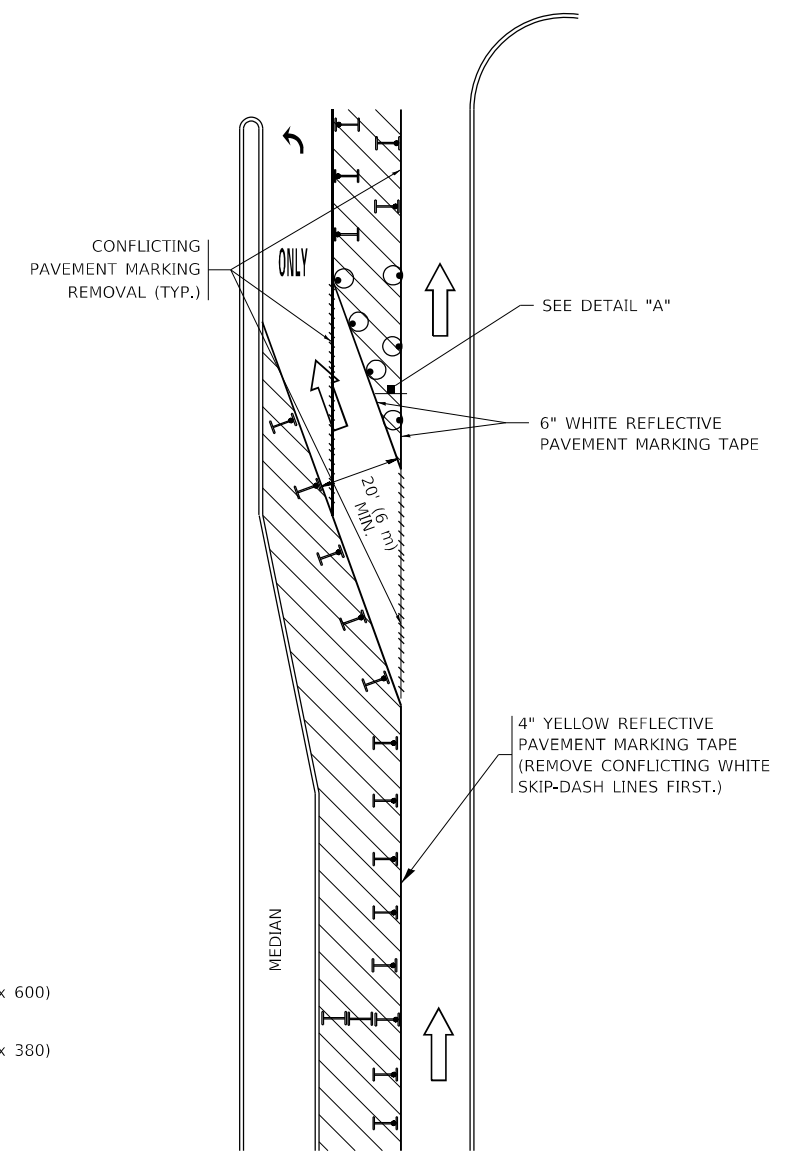
ILLINOIS		FED. AID PROJECT	
----------	--	------------------	--

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



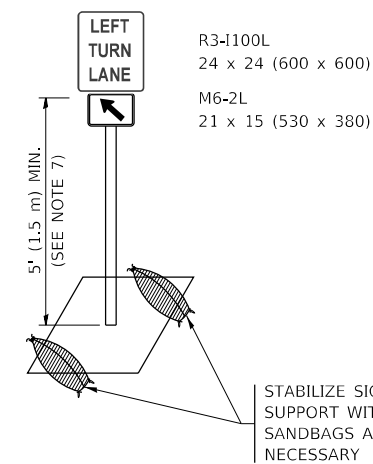
**FIGURE 2**

### LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



**DETAIL A**

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

MODEL: D:\draft FILE NAME: p:\1108\BEBIDNTEG Illinois.gov\PIVDOT\Documents\DOT Offices\District 1\Projects\DH5422\340\CD\Draw\CAD\Sheet\TC\_14.dgn

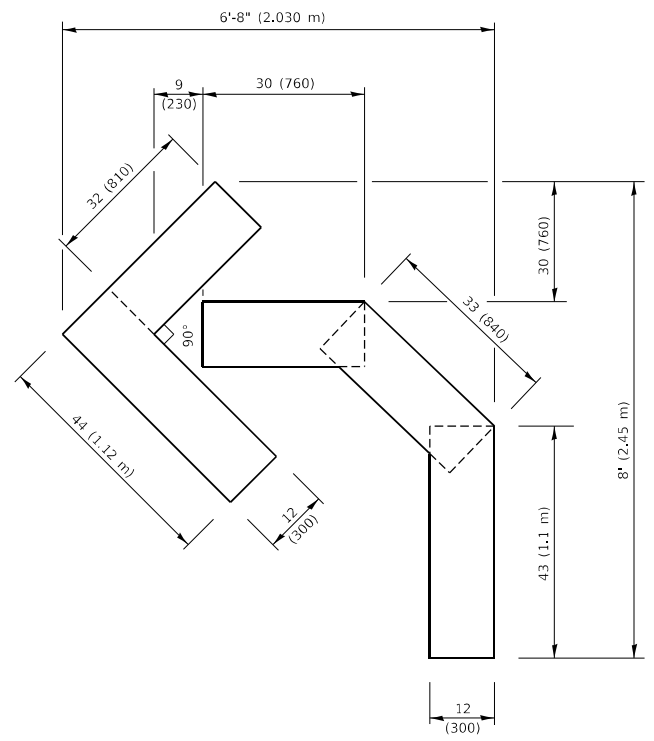
USER NAME = footemj	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 50.0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

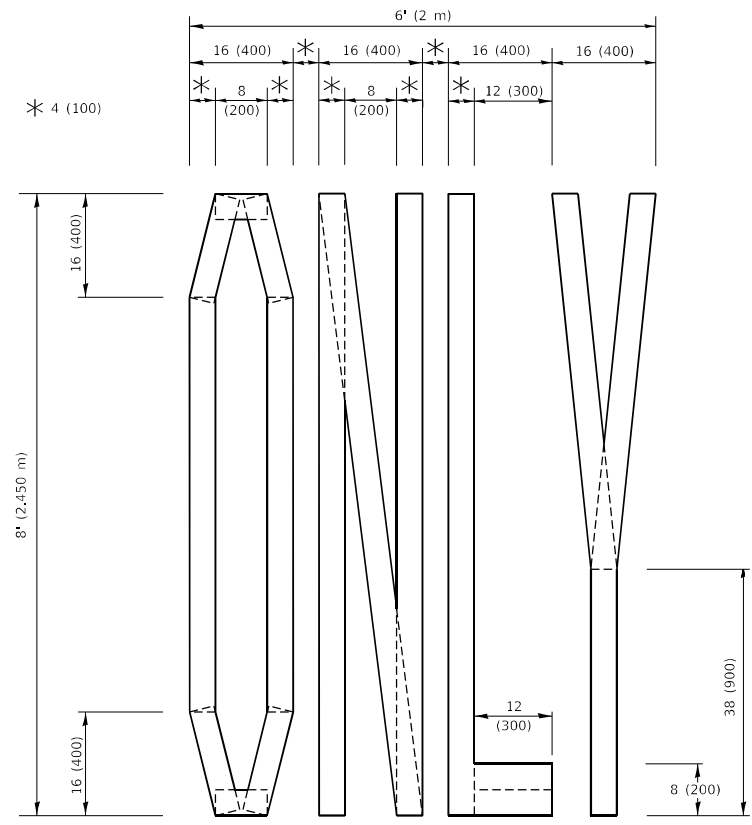
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

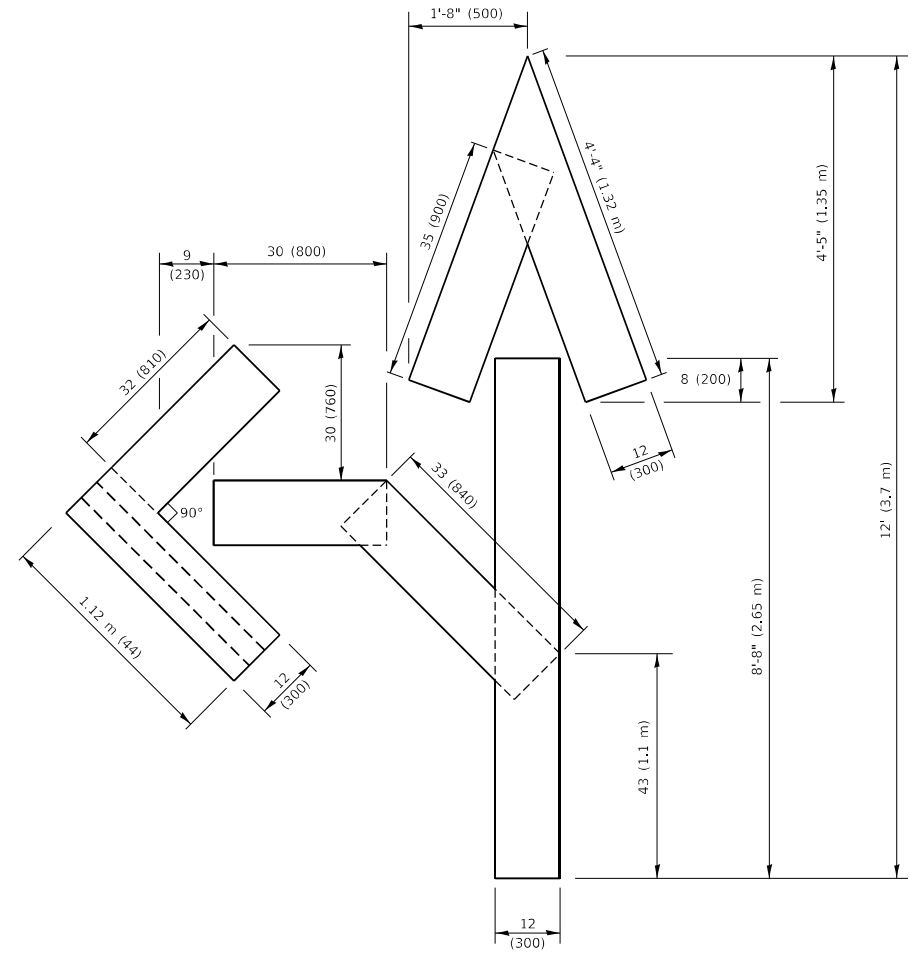
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	80
TC-14		CONTRACT NO. 62M41		
ILLINOIS FED. AID PROJECT				



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)

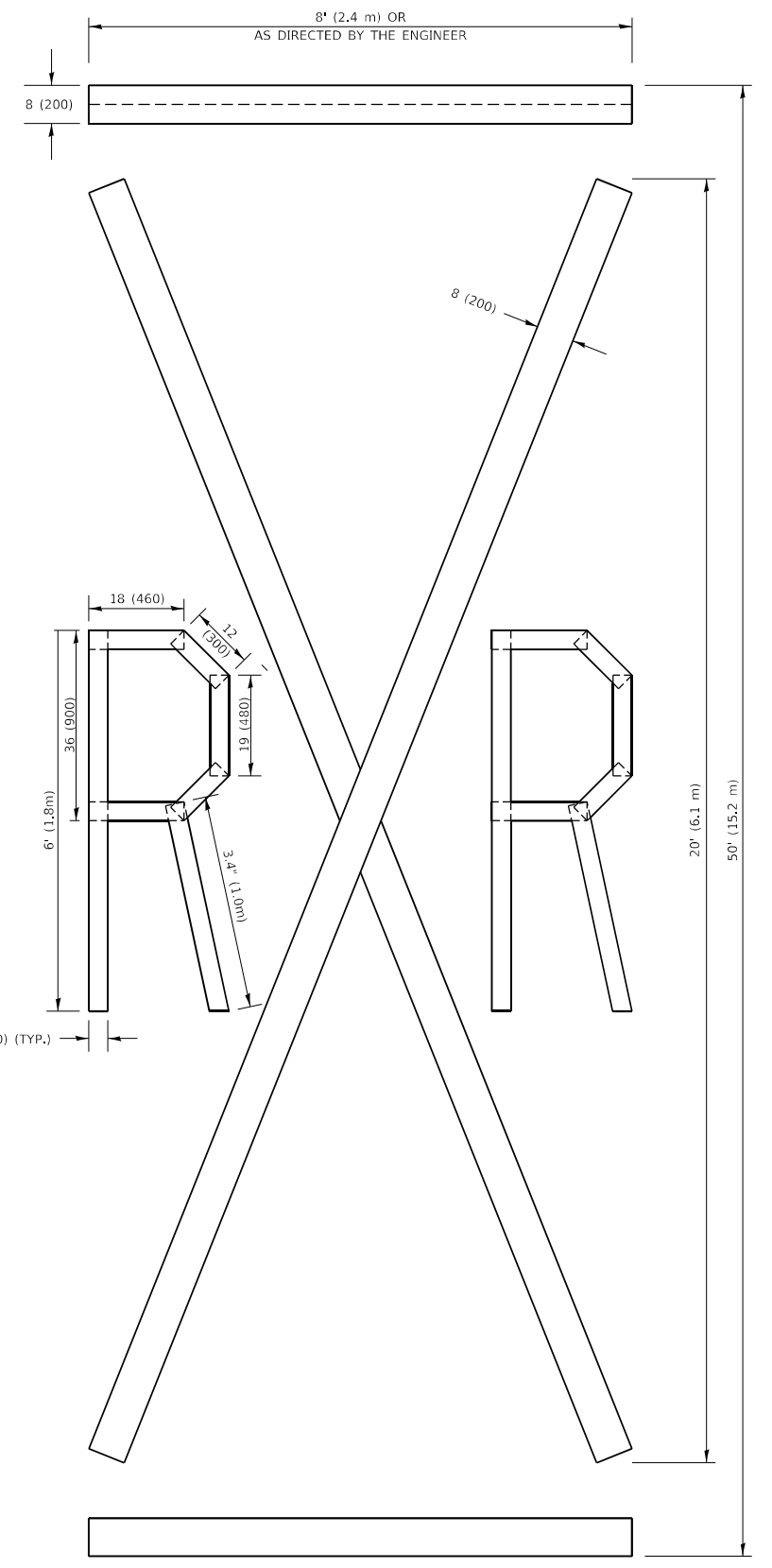


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

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

MODEL: Default  
 FILE NAME: P:\PROJECTS\2019\10\3735 AM 1\user\60000...

USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
DRAWN -	REVISOR - E. GOMEZ 08-28-00	
PLOT SCALE = 50.0068 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

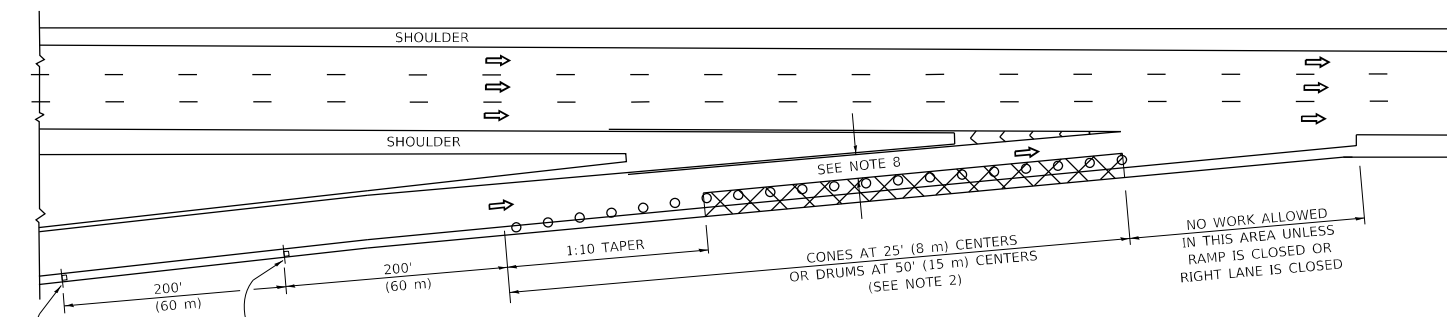
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

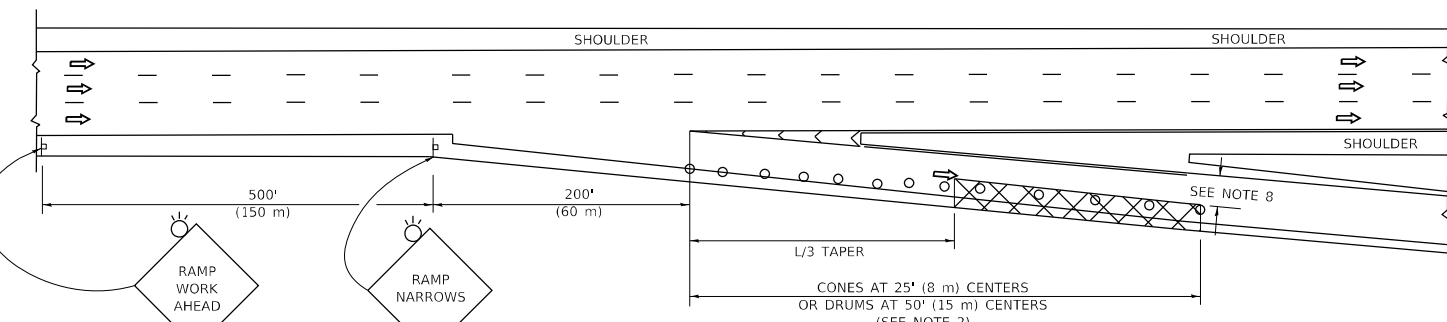
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	81
<b>TC-16</b>		CONTRACT NO. 62M41		
ILLINOIS FED. AID PROJECT				

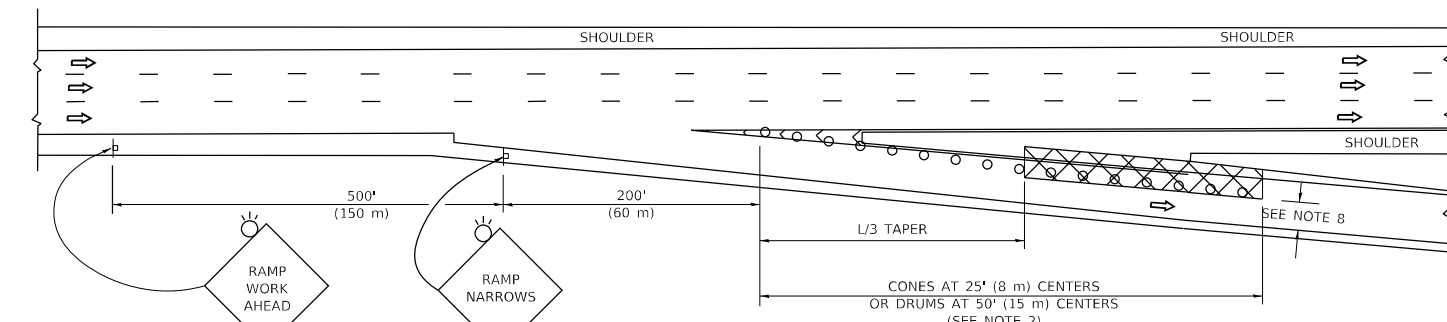
**PARTIAL RAMP CLOSURE DETAILS**



**TYPICAL ENTRANCE RAMP**



**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**

**SYMBOLS**

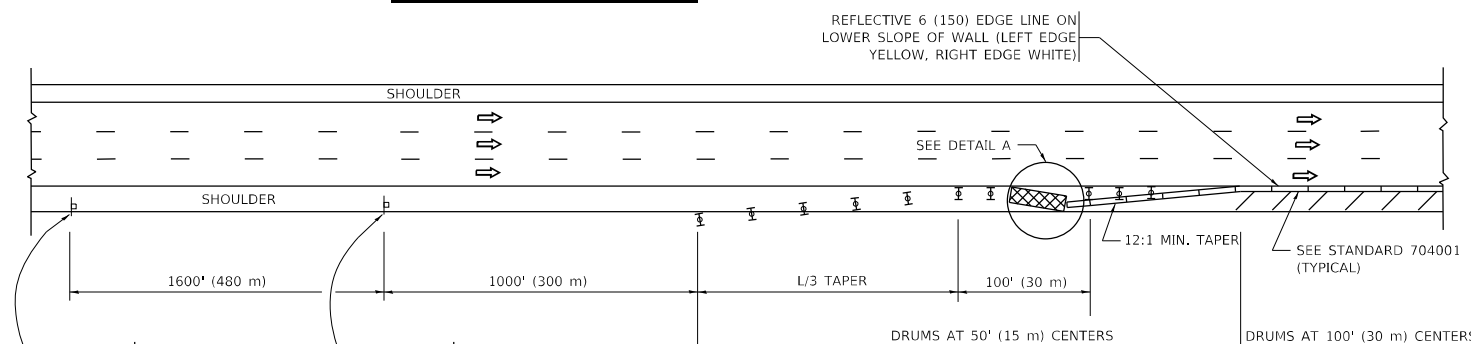
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

**GENERAL NOTES:**

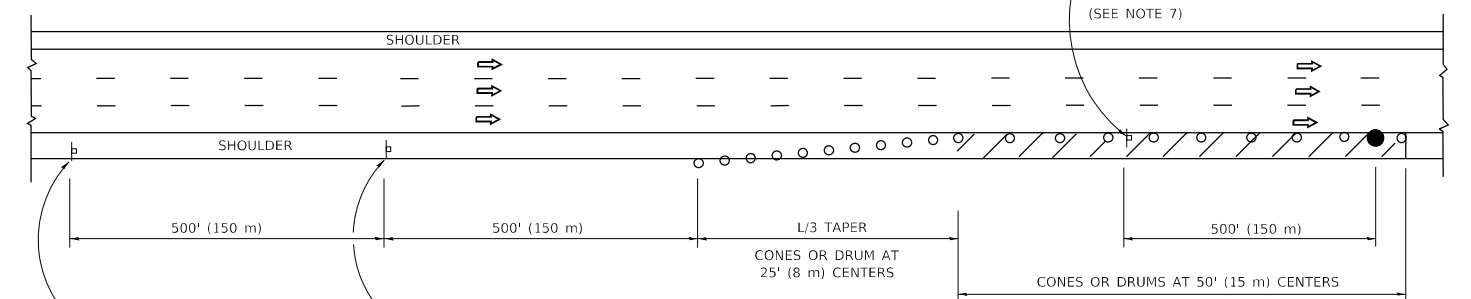
1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	L=0.65(WXS) L=(W)XS
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

**SHOULDER CLOSURE DETAILS**



**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**

- THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



**DETAIL "A" IMPACT ATTENUATOR, TEMPORARY (SEE NOTE 5)**

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
16' MIN. WIDTH CURVE SECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: D:\draft... FILE NAME: p:\u00848EBID\ITEC... PROJECTS\DOT\Documents\DOT Office\District 1\Projects\DOT\HSH22-234\CD\Drawings\CD\Sheet\K17.dwg

USER NAME = footemj	DESIGNED -	REVISED - S.P.B. 01-07
	DRAWN - D.W.S.	REVISED - S.P.B. 12-09
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M.D. 06-13
PLOT DATE = 3/4/2019	DATE - 11-96	REVISED - M.D. 01-18

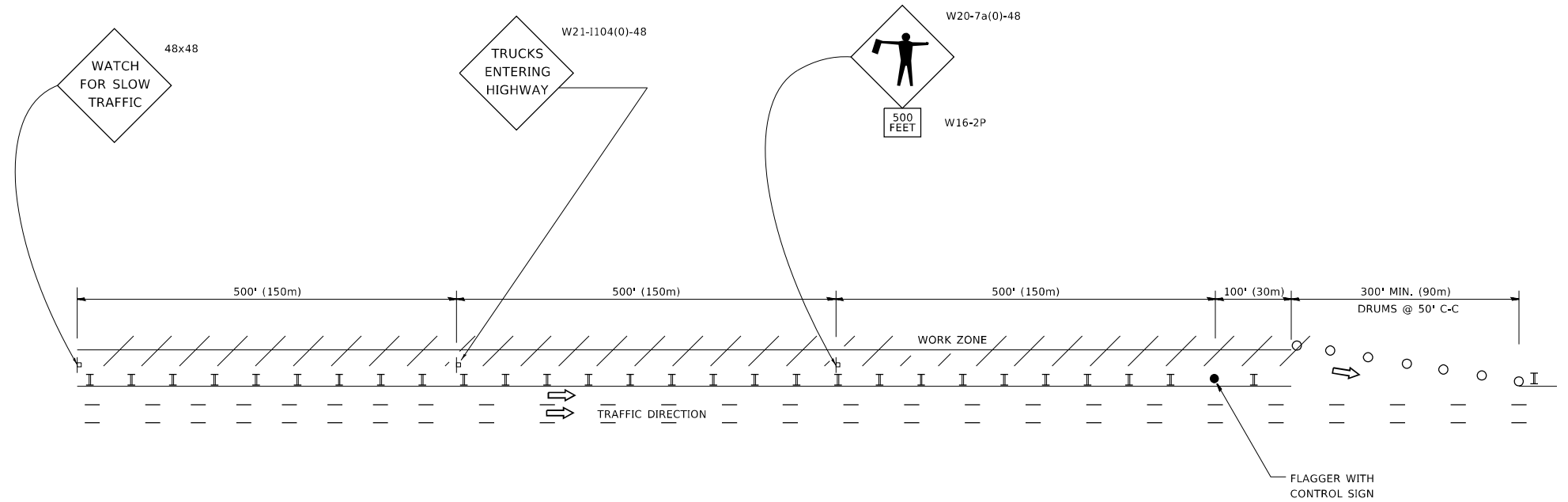
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	

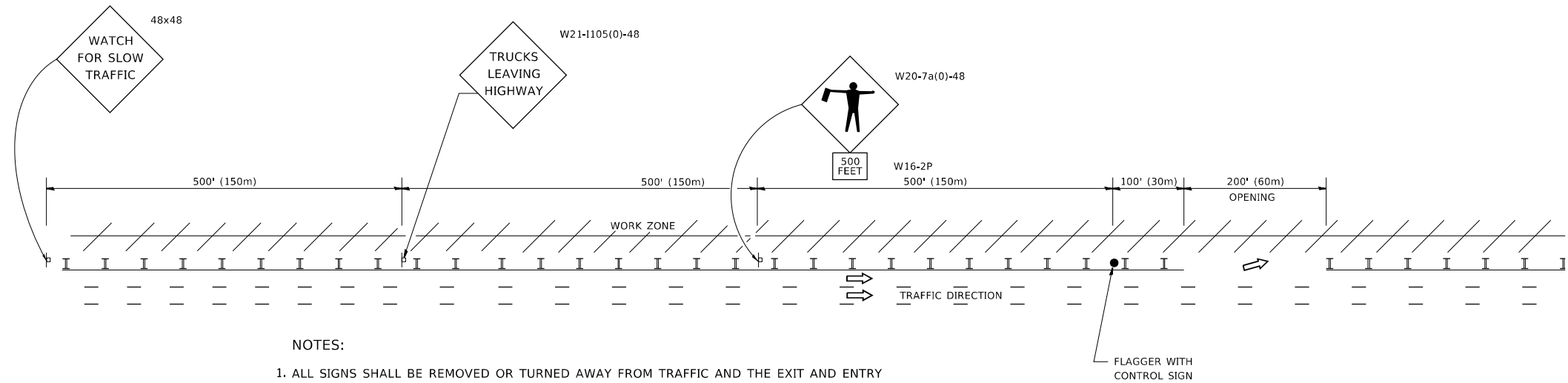
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	82
TC-17		CONTRACT NO. 62M41		
ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

**WORK ZONE EXIT OPENING**



**WORK ZONE ENTRY OPENING**



**NOTES:**

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

MODEL: D:\draft FILE NAME: p:\1108\BEBID\NTEC\Illinois.gov\RWIDOT\Documents\DOT Offices\District 1\Projects\DH5422-23a\CADData\CAD\sheet\13.dgn

USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06
	DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - S.P.B. 12-09
PLOT DATE = 3/4/2019	DATE -	REVISED - M.D.06-13

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FREEWAY /EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS  
AT WORK ZONE OPENINGS ON FREEWAYS /EXPRESSWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	83
<b>TC-18</b>		CONTRACT NO. 62M41		
ILLINOIS FED. AID PROJECT				

MODEL: D:\draft...  
 FILE NAME: ...  
 PROJECT: ...

**ROUTE MARKERS**

FOR U.S. ROUTES  
M1-40-2424

FOR ILLINOIS ROUTES  
M1-50-2424

R.R. UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

**ARROWS SIGNS**

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

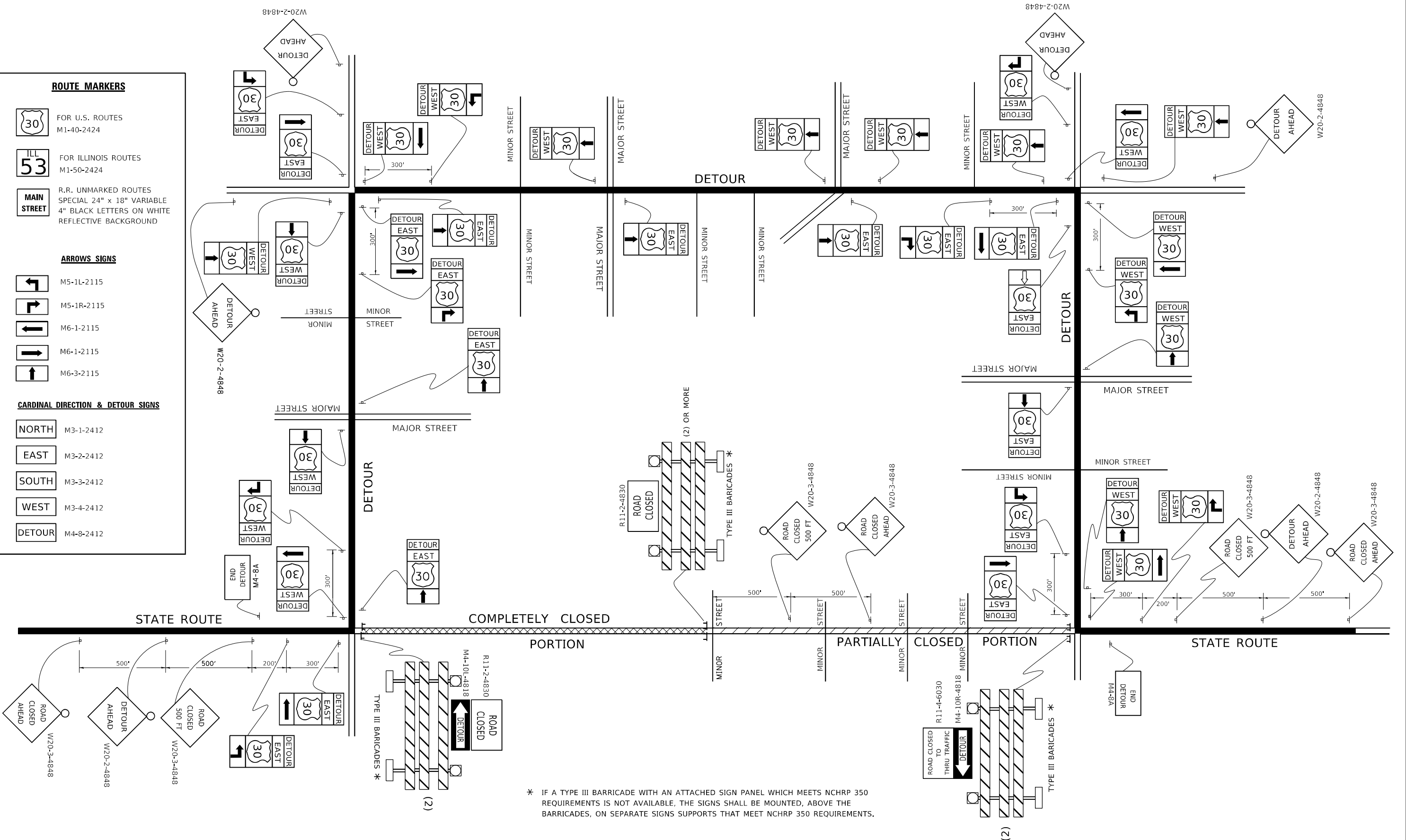
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

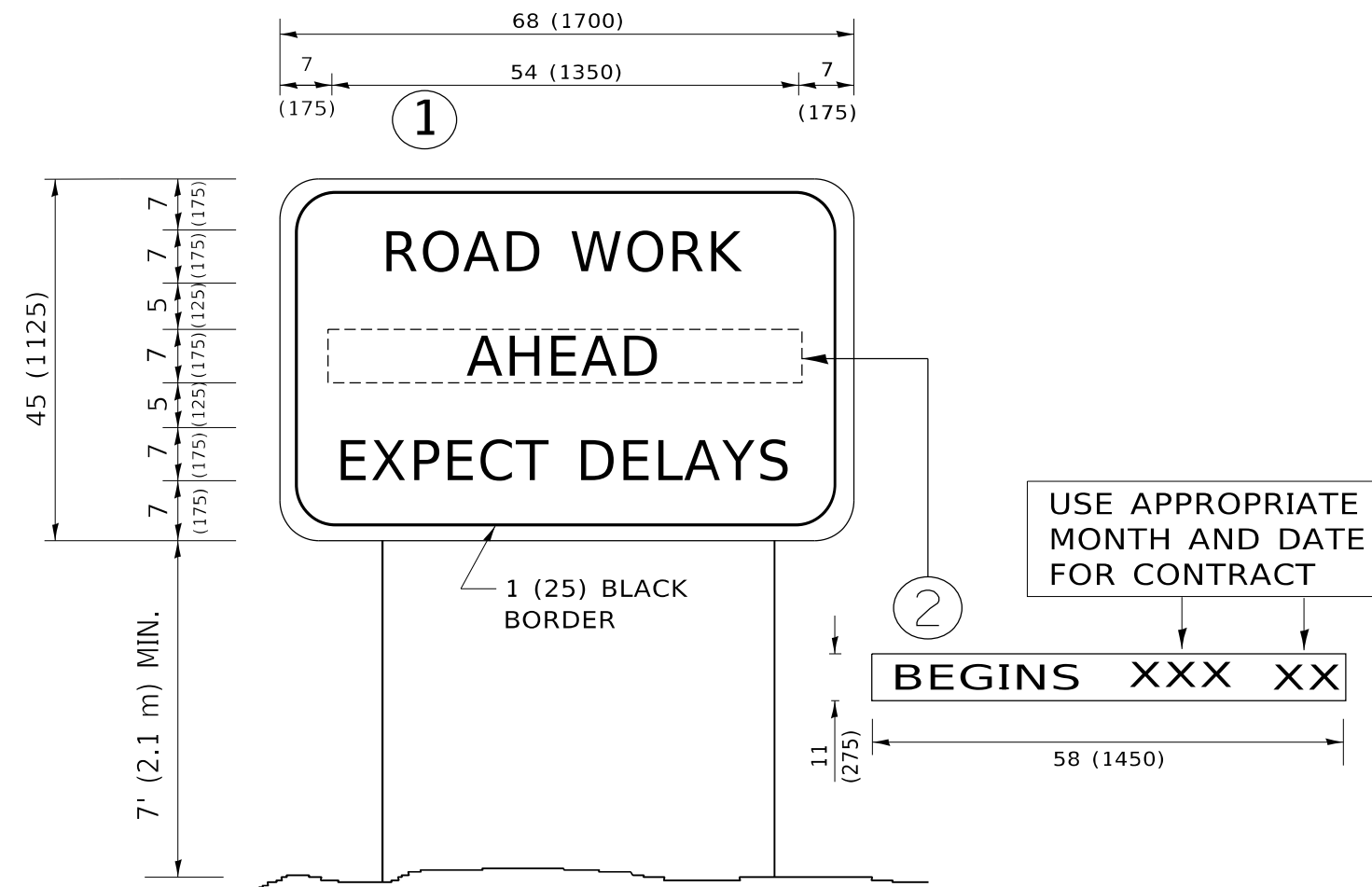
USER NAME = [footem]	DESIGNED -	REVISED - 10-18-02
	DRAWN -	REVISED - R. BORO 09-14-09
PLOT SCALE = 50.0000" 1' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING  
 FOR CLOSING STATE HIGHWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 0344	SECTION 2020-261-BR	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 84
TC-21		CONTRACT NO. 62M41		
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: D:\draft FILE NAME: p:\1108\BEBIDNTEG.illinois.gov\RWIDOT\Documents\DOT\_Offices\District 1\Projects\DH5422\240\CAD\Drawings\CAD\sheet\TC22.dgn

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ARTERIAL ROAD INFORMATION SIGN</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	2020-261-BR	COOK	85	85
<b>TC-22</b>		CONTRACT NO. 62M41		
ILLINOIS FED. AID PROJECT				