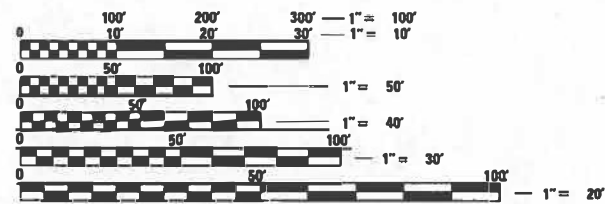


PROJECT IS LOCATED IN THE VILLAGES OF GLENCOE AND NORTHFIELD

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA - TOWER RD
 FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
 2021 AADT = 5100
 POSTED SPEED = 35 MPH
 DESIGN SPEED = 35 MPH

TRAFFIC DATA - I-94 /US 41
 FUNCTIONAL CLASSIFICATION: INTERSTATE
 2021 AADT = 116600
 % TRUCKS = 6.2%
 POSTED SPEED = 55 MPH
 DESIGN SPEED = 55 MPH



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

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

PROJECT ENGINEER DANIEL WILGREEN, PE (847) 705-4240
 PROJECT MANAGER FAWAD AQUEEL, PE, PTOE

CONTRACT NO. 62T36

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**PROPOSED
 HIGHWAY PLANS**

F.A.U. ROUTE 1282 (TOWER RD) AT
 I-94 /US 41 (EDENS EXPWY)
 SECTION FAU 1282 22 BJ
 PROJECT HBFP-L8YM(905)
 BRIDGE DECK OVERLAY AND BRIDGE
 JOINT REPAIRS
 COOK COUNTY

C-91-343-22



LOCATION MAP
 NOT TO SCALE

GROSS LENGTH = 394.10 FT. = 0.075 MILE
 NET LENGTH = 394.10 FT. = 0.075 MILE

BEGIN PROJECT
 STA. 2 + 37.95

TOWER RD AT I-94 /US 41
 STRUCTURE NO. 016-0815
 STA. 4 + 35.00

END PROJECT
 STA. 6 + 32.05

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	FAU 1282 22 BJ	COOK	46	1
		ILLINOIS	CONTRACT NO. 62T36	

D-91-289-22



LOCATION OF SECTION INDICATED THUS: - [highlighted area]

EFK Moen
 Civil Engineering Design

OSEH inc.
 401 S CARLTON AVE
 SUITE 201
 WHEATON, IL 60187
 WWW.OSEHINC.COM
 CONTACT: MUTHAYAB MOHAMMED (312) 776-2168



Signed: *[Signature]*
 Date: 8/11/2023
 License Expires: 11/30/2023
 The seal shown above is valid for Sheets 01-05.



Signed: *[Signature]*
 Date: 8/11/2023
 License Expires: 11/30/2023
 The seal shown above is valid for Sheets 06-15.



Signed: *[Signature]*
 Date: 8/11/2023
 License Expires: 11/30/2024
 The seal shown above is valid for Sheets 16-30.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED August 18, 2023

[Signature] REGIONAL ENGINEER
 October 13, 2023

[Signature] ENGINEER OF DESIGN AND ENVIRONMENT
 October 13, 2023

[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX, GENERAL NOTES, AND STANDARDS
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6	TYPICAL SECTIONS
7	REMOVAL PLAN
8	PROPOSED ROADWAY PLAN
9	PAVEMENT OVERLAY DETAIL
10	DETOUR PLAN
11-13	MAINTENANCE OF TRAFFIC PLAN
14-15	PAVEMENT MARKING PLAN
16-30	STRUCTURE PLANS
31	BD-32 BUTT JOINT AND HMA TAPER DETAILS
32	BM-20 PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE
33-36	BM-21 REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL
37	TC-08 ENTRANCE AND EXIT RAMP CLOSURE DETAILS
38	TC-09 TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTI-LANE WEAVE
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40	TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
41-42	TC-12 MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS
43	TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
44	TC-17 TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
45	TC-21 DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
46	TC-22 ARTERIAL ROAD INFORMATION SIGN

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
442201-03	CLASS C AND D PATCHES
515001-04	NAME PLATE FOR BRIDGES
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
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
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
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
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE VILLAGE OF GLENCOE AND THE VILLAGE OF NORTHFIELD.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 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 SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER
- LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND COMBINATION CURB AND GUTTER TYPE B-6.24 WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS OF WORK TO EXISTING CURBS AND GUTTER IN THE FIELD, UNLESS OTHERWISE SHOWN.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

GENERAL NOTES (CONT.)

- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- PLEASE SEE KEEPING THE EXPRESSWAY OPEN TO TRAFFIC SPECIAL PROVISION FOR ALLOWABLE LANE CLOSURE HOURS ON THE EXPRESSWAY.
- FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLANS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR FOR ARTERIALS, KALPANA KANNAN-HOSADURGA, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR FOR EXPRESSWAYS AT (847)705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 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. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.
- THE ENGINEER SHALL CONTACT FADI SULTAN, AREA TRAFFIC FIELD ENGINEER, AT FADI.SULTAN@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, IDOT'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.
- WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- THE PLANS DO NOT REPRESENT A COMPLETE DEPICTION OF ALL UTILITIES THAT MAY BE IMPACTED BY THE PROPOSED WORK. THE CONTRACTOR SHALL CONDUCT HIS OR HER OWN INVESTIGATION TO DETERMINE THE OWNERSHIP OF IMPACTED UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNERS AND MAY BE REQUIRED TO PROVIDE TEMPORARY SUPPORT, ADJUST, RELOCATE OR REMOVE UTILITIES THAT ARE IMPACTED BY THE PROPOSED IMPROVEMENT. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COSTS OF THE CONTRACT.
- ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONSTRUCTOR'S EXPENSE.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT). IN ACCORDANCE WITH "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- SAW CUTTING OF PAVEMENTS, SHOULDERS, ETC., SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING. THE COST OF SAW CUTTING REMOVAL ITEMS SHALL BE INCLUDED IN THE UNIT PRICES OF THESE ITEMS.
- THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

COMMITMENTS

- TREES OVER 3 INCH DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST TO OCTOBER 31ST.

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	2
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				80% FEDERAL
				20% STATE
				BRIDGE 0059 SN 016-0815
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	94	94
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	23
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23
25100630	EROSION CONTROL BLANKET	SQ YD	94	94
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	5	5
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	50	50
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	103	103
40600370	LONGITUDINAL JOINT SEALANT	FOOT	160	160
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	214	214
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	13	13
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	51	51
42001300	PROTECTIVE COAT	SQ YD	75	75

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				80% FEDERAL
				20% STATE
				BRIDGE 0059 SN 016-0815
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	226	226
44001980	CONCRETE BARRIER REMOVAL	FOOT	15	15
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	14	14
50102400	CONCRETE REMOVAL	CU YD	10.1	10.1
50104650	SLOPE WALL REMOVAL	SQ YD	15	15
50157300	PROTECTIVE SHIELD	SQ YD	666	666
50300255	CONCRETE SUPERSTRUCTURE	CU YD	11.1	11.1
50300260	BRIDGE DECK GROOVING	SQ YD	906	906
50300300	PROTECTIVE COAT	SQ YD	963	963
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1470	1470
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1450	1450
51100100	SLOPE WALL 4 INCH	SQ YD	15	15
52000110	PREFORMED JOINT STRIP SEAL	FOOT	87	87
59000200	EPOXY CRACK INJECTION	FOOT	45	45

* DENOTES SPECIALTY ITEM

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Civil Engineering Design

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	DRAWN = JB	REVISED =
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PLOT DATE = 8/18/2023	DATE =	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
TOWER RD AT I-94

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	3
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				80% FEDERAL 20% STATE BRIDGE 0059 SN 016-0815
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	226	226
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	150	150
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3
63200310	GUARDRAIL REMOVAL	FOOT	106	106
63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	20	20
63700805	CONCRETE BARRIER TRANSITION	FOOT	15	15
67100100	MOBILIZATION	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	240	240
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1
70300241	TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	FOOT	1150	1150
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	5020	5020
70307125	TEMPORARY PAVEMENT MARKING - LINE 5" - TYPE IV TAPE	FOOT	1260	1260
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1150	1150

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				80% FEDERAL 20% STATE BRIDGE 0059 SN 016-0815
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5241	5241
* 78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	1256	1256
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	110	110
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1080	1080
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	402	402
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	84	84
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1300	1300
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	76	76
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	66	66
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	5	5
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	63	63
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	50	50

* DENOTES SPECIALTY ITEM

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Civil Engineering Design

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PLOT DATE = 8/24/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
TOWER RD AT I-94**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T36	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				80% FEDERAL
				20% STATE
				BRIDGE 0059 SN 016-0815
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	5	5
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	7153	7153
* K1004595	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	L SUM	1	1
X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	65	65
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	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	14	14
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	34	34
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	48	48
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	2	2
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	1740	1740
Z0001905	STRUCTURAL STEEL REPAIR	POUND	960	960
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	929	929

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				80% FEDERAL
				20% STATE
				BRIDGE 0059 SN 016-0815
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	929	929
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	331	331
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	8	8
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	4	4
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	4	4
Z0021916	SILICONE JOINT SEALER, 3"	FOOT	40	40
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	122	122
Z0049790	RELOCATING NAME PLATES	EACH	1	1
Z0064800	SELECTIVE CLEARING	UNIT	30	30
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	3	3
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	5	5
* X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	34	34

* DENOTES SPECIALTY ITEM



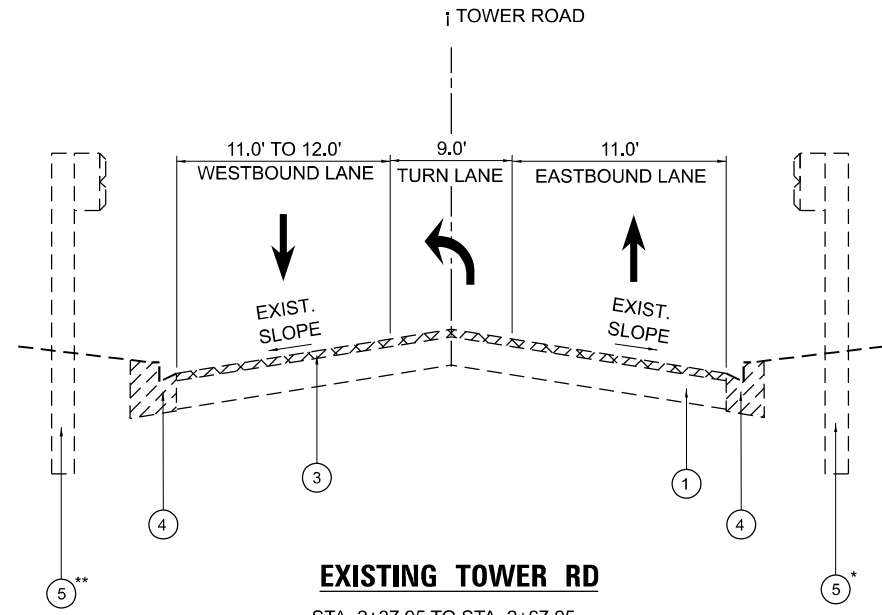
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
TOWER RD AT I-94**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	5
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				

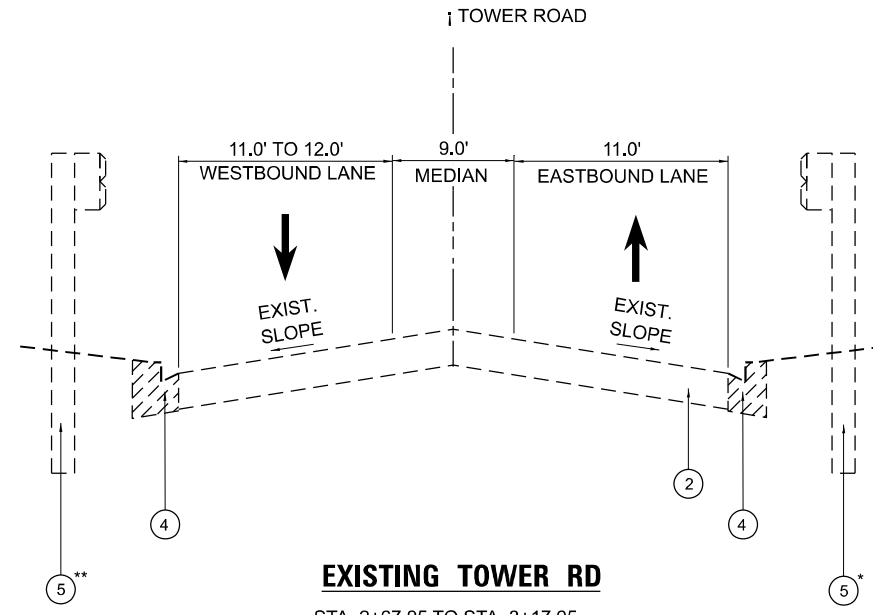


EXISTING TOWER RD

STA. 2+37.95 TO STA. 2+67.95
STA. 6+02.05 TO STA. 6+32.05

** FROM STA. 6+02.05 TO STA. 6+32.05

* FROM STA. 2+58.71 TO STA. 2+67.95

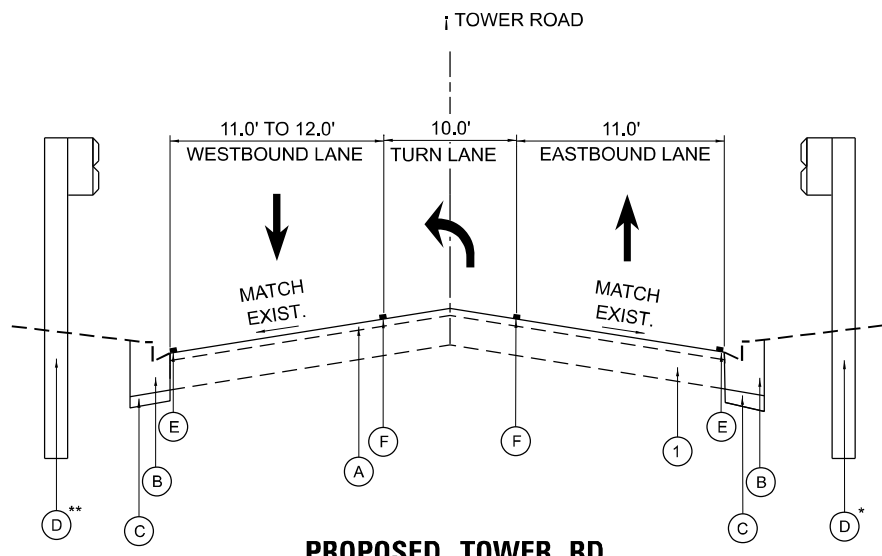


EXISTING TOWER RD

STA. 2+67.95 TO STA. 3+17.95
STA. 5+52.05 TO STA. 6+02.05

** FROM STA. 5+52.05 TO STA. 6+02.05

* FROM STA. 2+67.95 TO STA. 3+17.95

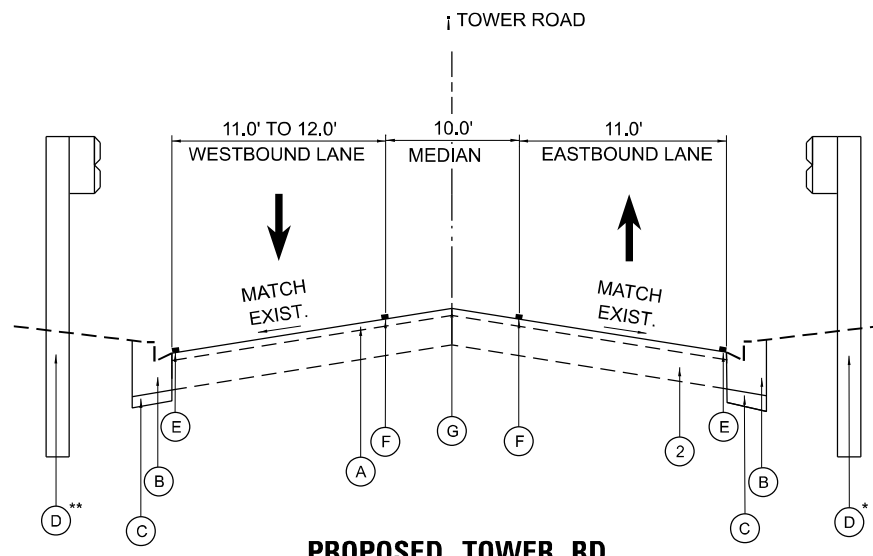


PROPOSED TOWER RD

STA. 2+37.95 TO STA. 2+67.95
STA. 6+02.05 TO STA. 6+32.05

** FROM STA. 2+32.40 TO STA. 2+67.95

* FROM STA. 2+05.33 TO STA. 2+67.95 AND FROM STA. 6+02.05 TO STA. 6+40.54



PROPOSED TOWER RD

STA. 2+67.95 TO STA. 3+17.95
STA. 5+52.05 TO STA. 6+02.05

** FROM STA. 2+67.95 TO STA. 3+04.13 AND FROM STA. 5+52.05 TO STA. 6+05.86

* FROM STA. 2+67.95 TO STA. 3+20.05 AND FROM STA. 5+68.81 TO STA. 6+40.54

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndesign	QMP
PAVEMENT RESURFACING & BUTT JOINT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50; 1 1/2" IL-9.5	4% @ 50 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QA/QC); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

NOTES

1. THE UNIT WEIGHT TO BE USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. 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 RECLAIMED MATERIALS SPECIFICATIONS.
3. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER MILLED SURFACE.

EXISTING LEGEND

- ① EXISTING HMA-MIX ASPHALT PAVEMENT
- ② EXISTING CONCRETE APPROACH SLAB
- ③ HMA SURFACE REMOVAL - BUTT JOINT
- ④ COMBINATION CONCRETE CURB & GUTTER REMOVAL
- ⑤ EXISTING GUARDRAIL

PROPOSED LEGEND

- (A) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50 (1 1/2")
- (B) PROPOSED CONCRETE CURB AND GUTTER, TYPE B-6.24
- (C) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (D) PROPOSED GUARDRAIL
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (SOLID)
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW (DOUBLE SOLID)
- (G) THERMOPLASTIC PAVEMENT MARKING - LINE 12", YELLOW (SOLID 45° DIAGONAL 20' O.C.)

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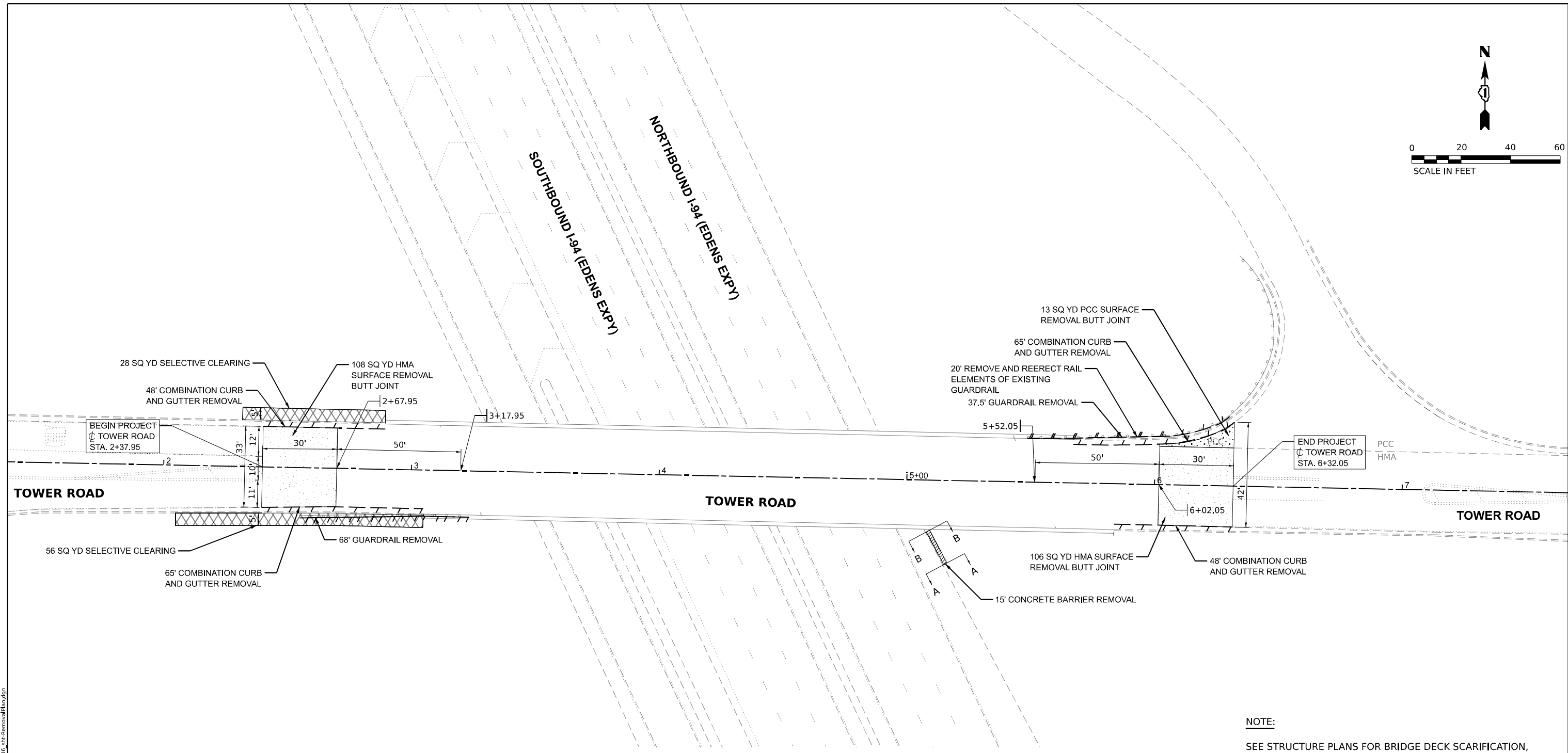
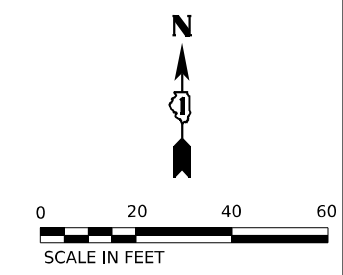
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401 S CARLTON AVE SUITE 209 WILSONVILLE, IL 60187 WWW.OSEHINC.COM	DRAWN -	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2023	DATE -	REVISED -

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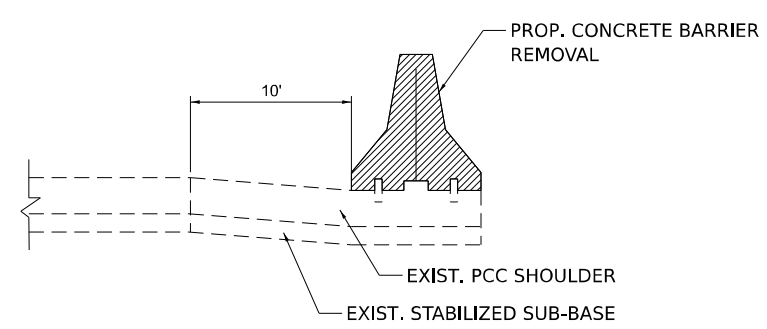
**TYPICAL SECTIONS
TOWER ROAD AT I-94**

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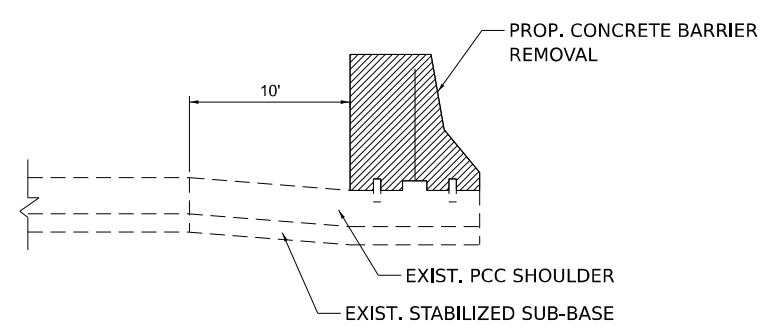
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282-22-BJ	COOK	46	6
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				



NOTE:
SEE STRUCTURE PLANS FOR BRIDGE DECK SCARIFICATION, LATEX OVERLAY, BRIDGE JOINT RECONSTRUCTION AND APPROACH SLAB REPAIR DETAILS.



SECTION A-A



SECTION B-B

REMOVAL LEGEND

- HMA SURFACE REMOVAL - BUTT JOINT
- PCC SURFACE REMOVAL - BUTT JOINT
- LINEAR ITEM REMOVAL
- BARRIER WALL REMOVAL
- SELECTIVE CLEARING PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE

MODEL: Default; FILE NAME: Z:\Shared\Projects\DOT\DOTD-01-0716-21-HDR\03_Design\Tower Road over I-94\Sheet\1282-22-BJ-Removal.dwg





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PLOT DATE = 8/18/2023	DATE -	REVISED -

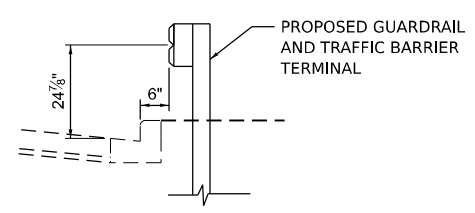
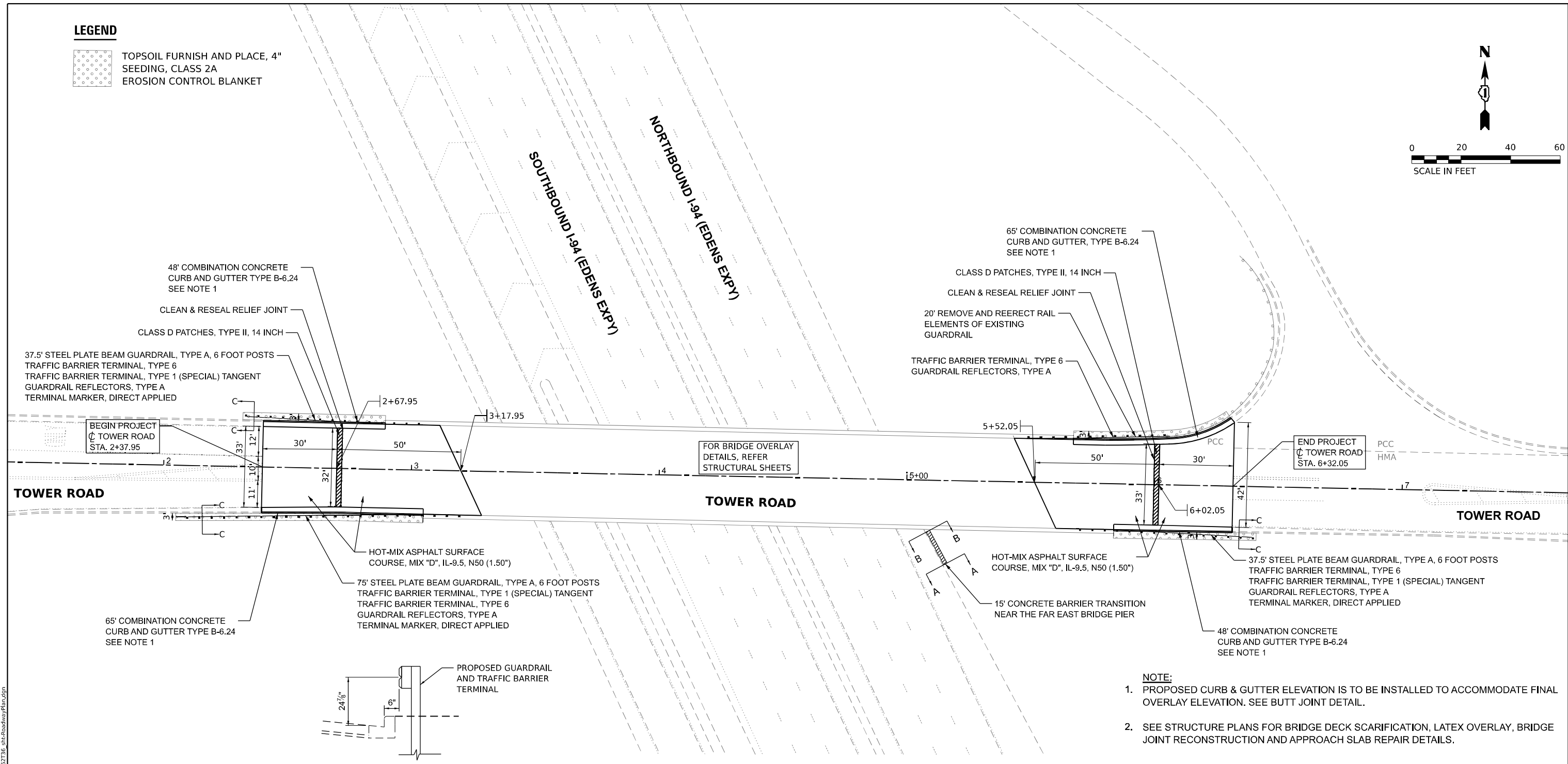
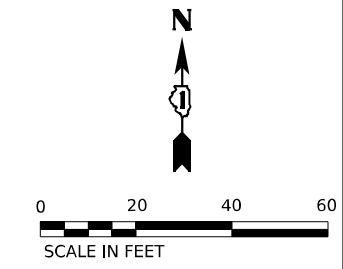
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REMOVAL PLAN TOWER ROAD AT I-94			
SCALE: 1" = 20'	SHEET 1	OF 1 SHEETS	STA. TO STA.

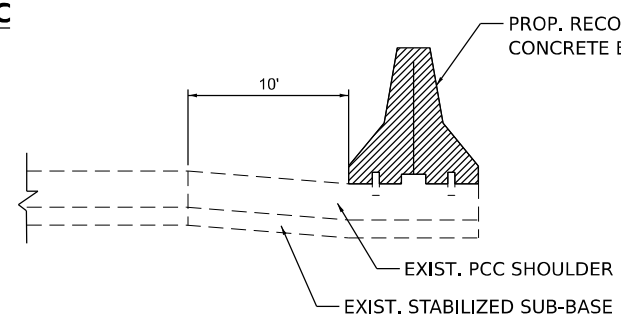
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1282	1282-22-BJ	COOK	46	7
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				

LEGEND

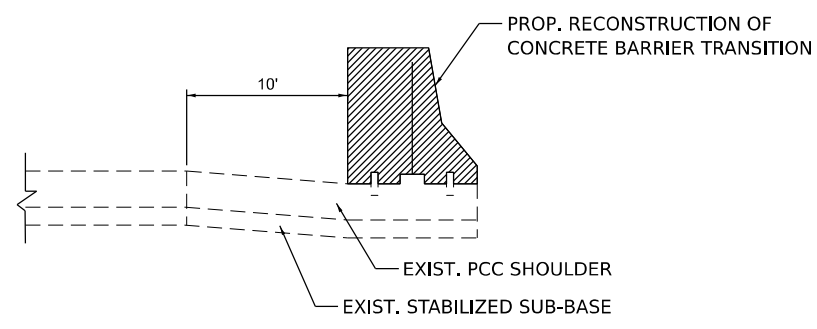
-  TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET



SECTION C-C



SECTION A-A



SECTION B-B

- NOTE:**
- PROPOSED CURB & GUTTER ELEVATION IS TO BE INSTALLED TO ACCOMMODATE FINAL OVERLAY ELEVATION. SEE BUTT JOINT DETAIL.
 - SEE STRUCTURE PLANS FOR BRIDGE DECK SCARIFICATION, LATEX OVERLAY, BRIDGE JOINT RECONSTRUCTION AND APPROACH SLAB REPAIR DETAILS.

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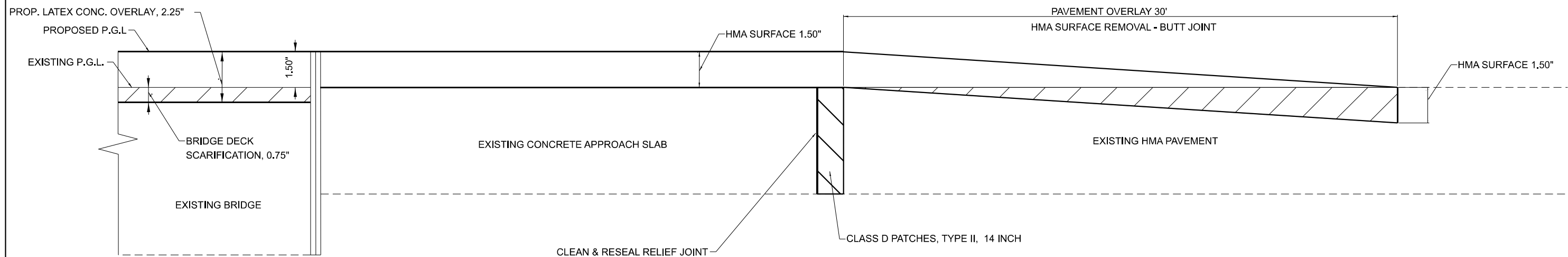


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DRAWN -	REVISED -	
PLOT SCALE = 40,000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2023	DATE -	REVISED -

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PROPOSED ROADWAY PLAN TOWER ROAD AT I-94			
SCALE: 1" = 20'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282-22-BJ	COOK	46	8
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				



PAVEMENT OVERLAY DETAIL

STA. 2+37.95 TO STA. 3+17.95
 STA. 5+52.05 TO STA. 6+32.05

MODEL: Default
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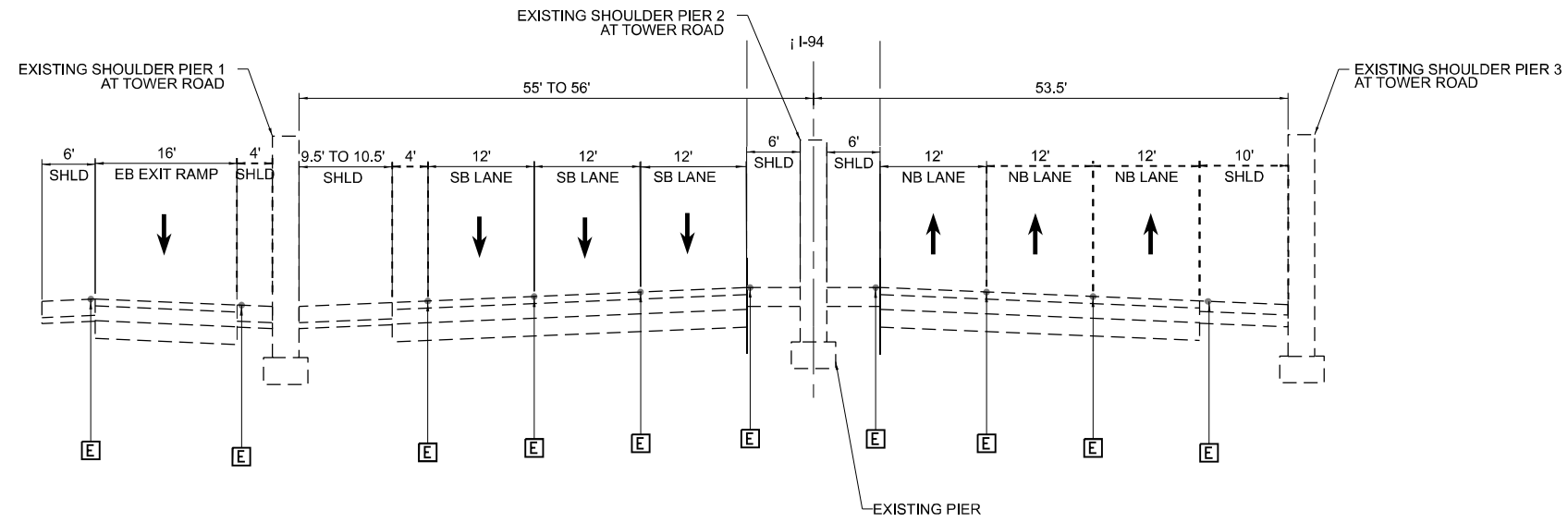
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**PAVEMENT OVERLAY DETAIL
 TOWER ROAD AT I-94**

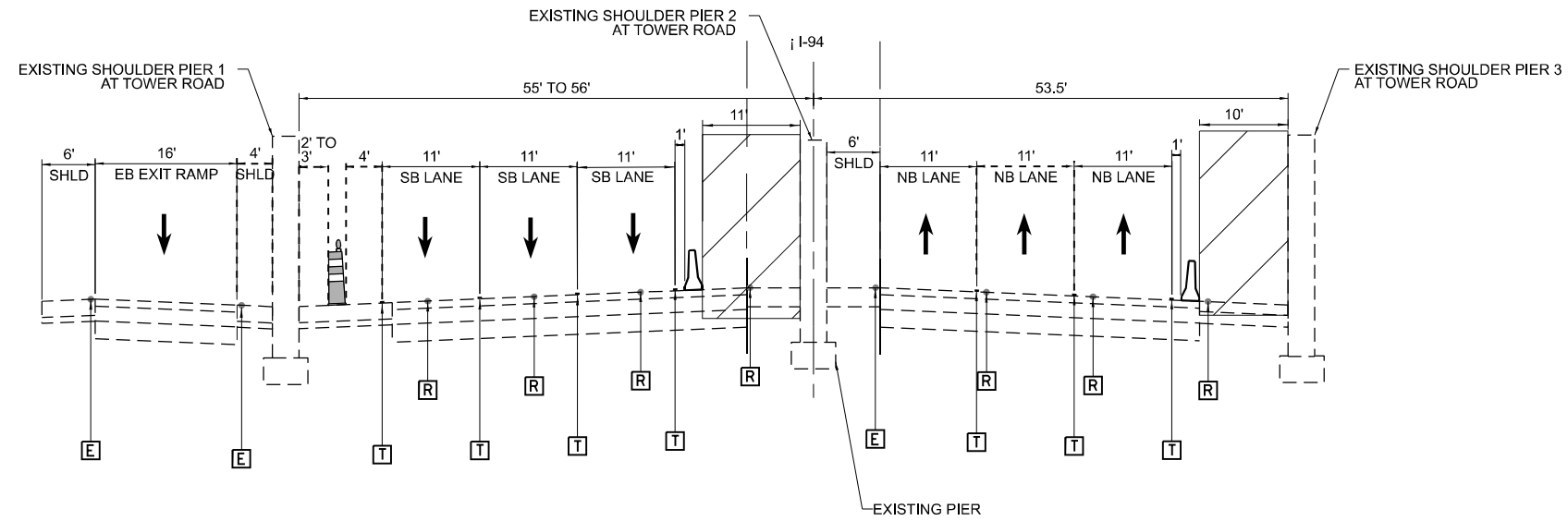
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282-22-BJ	COOK	46	9
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				



EXISTING I-94 TYPICAL SECTION

AT TOWER RD - LOOKING NORTH



STAGE 1 I-94 TYPICAL SECTION

AT TOWER RD - LOOKING NORTH

MAINTENANCE OF TRAFFIC GENERAL NOTES:

1. ALL WIDTHS PROVIDED ARE BASED OFF THE AERIAL IMAGERY DUE TO THE ABSENCE OF SURVEY OR TOPO FILES.
2. THE OUTSIDE SHOULDER ON I-94 NB DIRECTION WILL BE CLOSED AND THE LANE WIDTH WILL BE REDUCED TO 11 FT THROUGHOUT THE WORK AREA DURING CONSTRUCTION WORK ON PIER 3.
3. DURING CONSTRUCTION WORK ON PIER 2, THE INSIDE SHOULDER ON I-94 SB DIRECTION WILL BE CLOSED AND THE TRAVEL LANES WILL BE SHIFTED PARTIALLY ONTO THE OUTSIDE SHOULDER. THE LANE WIDTHS WILL BE REDUCED TO 11 FT THROUGHOUT THE WORK AREA.
4. ALL EXISTING PAVEMENT MARKING LINES WITHIN THE TEMPORARY PAVEMENT MARKING LIMITS SHOWN IN THE PLANS WILL BE REMOVED BY WATER BLASTING.

LEGEND:

- E EXISTING PAVEMENT MARKING
- T TEMPORARY PAVEMENT MARKING - TYPE IV TAPE
- R 78300202 (PAVEMENT MARKING REMOVAL - WATER BLASTING)
- / WORK ZONE
- TEMPORARY CONCRETE BARRIER
- DRUMS WITH STEADY BURN LIGHTS

MODEL: D:\p\1\2\3\4\5\6\7\8\9\10\11\12\13\14\15\16\17\18\19\20\21\22\23\24\25\26\27\28\29\30\31\32\33\34\35\36\37\38\39\40\41\42\43\44\45\46\47\48\49\50\51\52\53\54\55\56\57\58\59\60\61\62\63\64\65\66\67\68\69\70\71\72\73\74\75\76\77\78\79\80\81\82\83\84\85\86\87\88\89\90\91\92\93\94\95\96\97\98\99\100\101\102\103\104\105\106\107\108\109\110\111\112\113\114\115\116\117\118\119\120\121\122\123\124\125\126\127\128\129\130\131\132\133\134\135\136\137\138\139\140\141\142\143\144\145\146\147\148\149\150\151\152\153\154\155\156\157\158\159\160\161\162\163\164\165\166\167\168\169\170\171\172\173\174\175\176\177\178\179\180\181\182\183\184\185\186\187\188\189\190\191\192\193\194\195\196\197\198\199\200\201\202\203\204\205\206\207\208\209\210\211\212\213\214\215\216\217\218\219\220\221\222\223\224\225\226\227\228\229\230\231\232\233\234\235\236\237\238\239\240\241\242\243\244\245\246\247\248\249\250\251\252\253\254\255\256\257\258\259\260\261\262\263\264\265\266\267\268\269\270\271\272\273\274\275\276\277\278\279\280\281\282\283\284\285\286\287\288\289\290\291\292\293\294\295\296\297\298\299\300\301\302\303\304\305\306\307\308\309\310\311\312\313\314\315\316\317\318\319\320\321\322\323\324\325\326\327\328\329\330\331\332\333\334\335\336\337\338\339\340\341\342\343\344\345\346\347\348\349\350\351\352\353\354\355\356\357\358\359\360\361\362\363\364\365\366\367\368\369\370\371\372\373\374\375\376\377\378\379\380\381\382\383\384\385\386\387\388\389\390\391\392\393\394\395\396\397\398\399\400\401\402\403\404\405\406\407\408\409\410\411\412\413\414\415\416\417\418\419\420\421\422\423\424\425\426\427\428\429\430\431\432\433\434\435\436\437\438\439\440\441\442\443\444\445\446\447\448\449\450\451\452\453\454\455\456\457\458\459\460\461\462\463\464\465\466\467\468\469\470\471\472\473\474\475\476\477\478\479\480\481\482\483\484\485\486\487\488\489\490\491\492\493\494\495\496\497\498\499\500\501\502\503\504\505\506\507\508\509\510\511\512\513\514\515\516\517\518\519\520\521\522\523\524\525\526\527\528\529\530\531\532\533\534\535\536\537\538\539\540\541\542\543\544\545\546\547\548\549\550\551\552\553\554\555\556\557\558\559\560\561\562\563\564\565\566\567\568\569\570\571\572\573\574\575\576\577\578\579\580\581\582\583\584\585\586\587\588\589\590\591\592\593\594\595\596\597\598\599\600\601\602\603\604\605\606\607\608\609\610\611\612\613\614\615\616\617\618\619\620\621\622\623\624\625\626\627\628\629\630\631\632\633\634\635\636\637\638\639\640\641\642\643\644\645\646\647\648\649\650\651\652\653\654\655\656\657\658\659\660\661\662\663\664\665\666\667\668\669\670\671\672\673\674\675\676\677\678\679\680\681\682\683\684\685\686\687\688\689\690\691\692\693\694\695\696\697\698\699\700\701\702\703\704\705\706\707\708\709\710\711\712\713\714\715\716\717\718\719\720\721\722\723\724\725\726\727\728\729\730\731\732\733\734\735\736\737\738\739\740\741\742\743\744\745\746\747\748\749\750\751\752\753\754\755\756\757\758\759\760\761\762\763\764\765\766\767\768\769\770\771\772\773\774\775\776\777\778\779\780\781\782\783\784\785\786\787\788\789\790\791\792\793\794\795\796\797\798\799\800\801\802\803\804\805\806\807\808\809\810\811\812\813\814\815\816\817\818\819\820\821\822\823\824\825\826\827\828\829\830\831\832\833\834\835\836\837\838\839\840\841\842\843\844\845\846\847\848\849\850\851\852\853\854\855\856\857\858\859\860\861\862\863\864\865\866\867\868\869\870\871\872\873\874\875\876\877\878\879\880\881\882\883\884\885\886\887\888\889\890\891\892\893\894\895\896\897\898\899\900\901\902\903\904\905\906\907\908\909\910\911\912\913\914\915\916\917\918\919\920\921\922\923\924\925\926\927\928\929\930\931\932\933\934\935\936\937\938\939\940\941\942\943\944\945\946\947\948\949\950\951\952\953\954\955\956\957\958\959\960\961\962\963\964\965\966\967\968\969\970\971\972\973\974\975\976\977\978\979\980\981\982\983\984\985\986\987\988\989\990\991\992\993\994\995\996\997\998\999\1000

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DRAWN - _____	REVISIONS - _____	
PLOT SCALE = 40,000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 8/18/2023	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
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MAINTENANCE OF TRAFFIC TYPICAL SECTION TOWER ROAD AT I-94			
SCALE: 1" = 10'	SHEET 1	OF 1 SHEETS	STA. _____ TO STA. _____

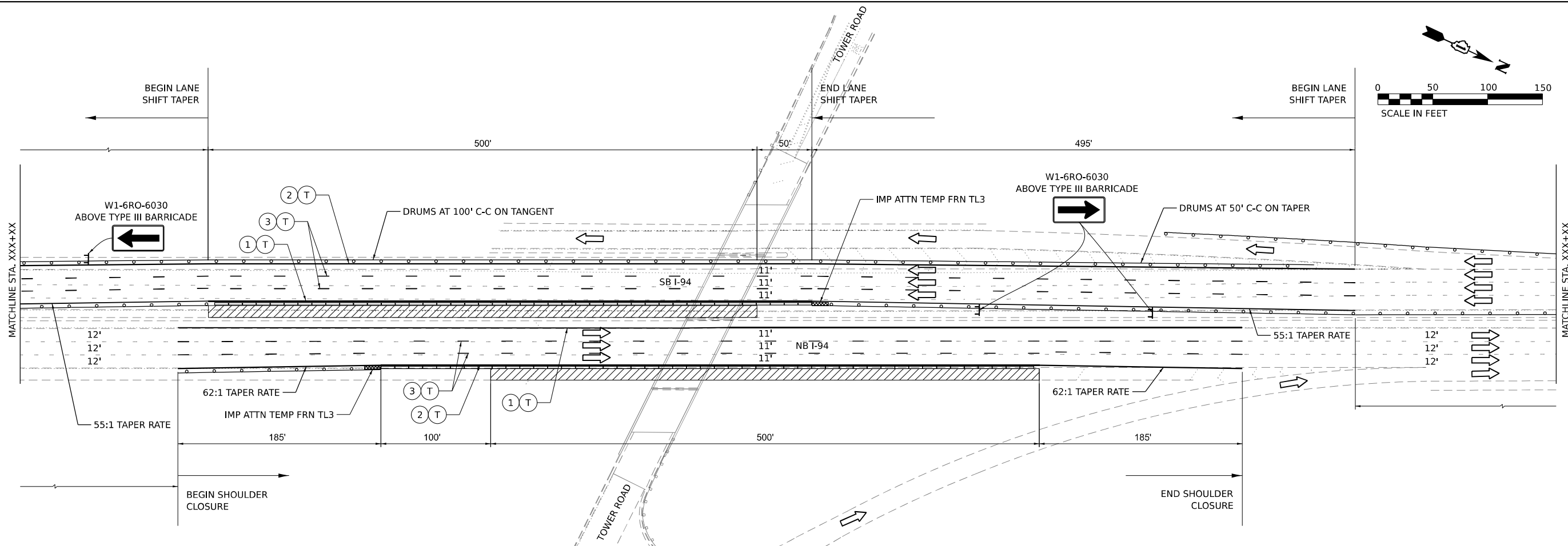
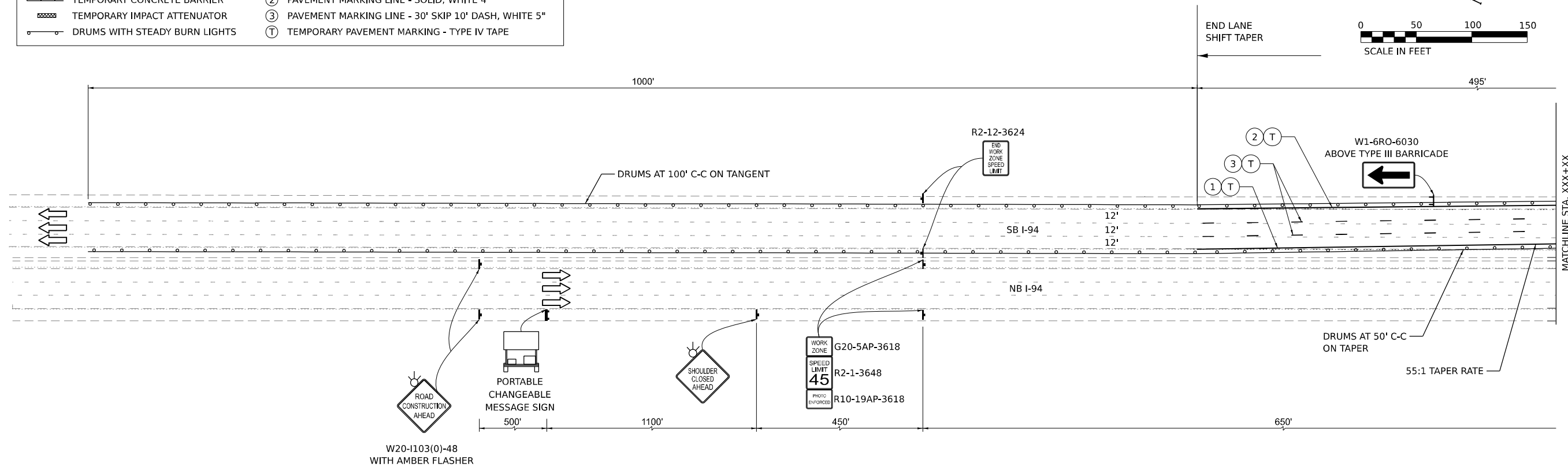
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1282	1282-22-BJ	COOK	46	11
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				

LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- DRUMS WITH STEADY BURN LIGHTS

PAVEMENT MARKING LEGEND

- ① PAVEMENT MARKING LINE - SOLID, YELLOW 4"
- ② PAVEMENT MARKING LINE - SOLID, WHITE 4"
- ③ PAVEMENT MARKING LINE - 30' SKIP 10' DASH, WHITE 5"
- Ⓣ TEMPORARY PAVEMENT MARKING - TYPE IV TAPE



MODEL: Default
FILE NAME: Z:\Shared\Projects\DOT\DOT-21-075-21 - HDR\03_Design\Tower Road over I-94\Sheets\1282-22-BJ.dgn

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USER NAME = SravanMaringanti
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DRAWN -
PLOT SCALE = 100,000' / in.
CHECKED -
PLOT DATE = 8/18/2023

DESIGNED -
DRAWN -
CHECKED -
DATE -

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



**STATE OF ILLINOIS
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**MAINTENANCE OF TRAFFIC
TOWER ROAD OVER I-94**

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

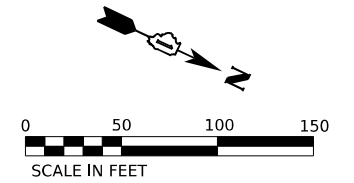
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CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				

LEGEND

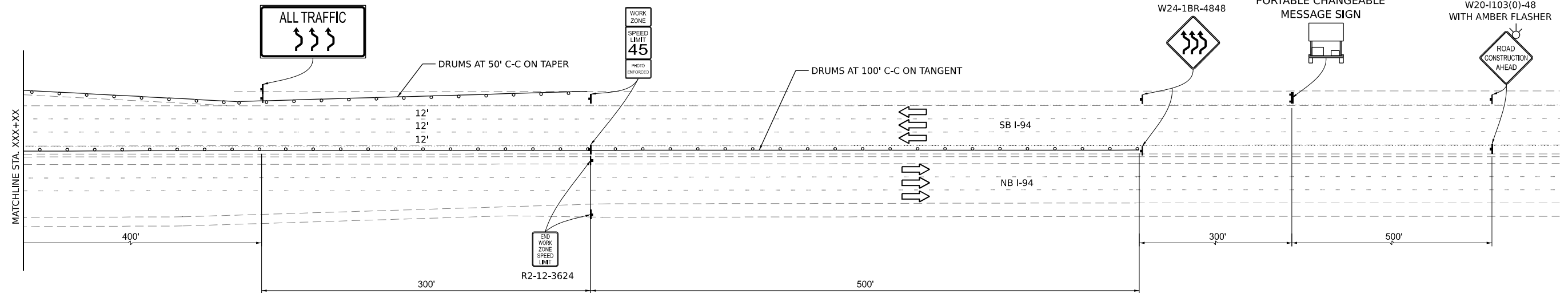
-  WORK ZONE
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY IMPACT ATTENUATOR
-  DRUMS WITH STEADY BURN LIGHTS

PAVEMENT MARKING LEGEND

- ① PAVEMENT MARKING LINE - SOLID, YELLOW 4"
- ② PAVEMENT MARKING LINE - SOLID, WHITE 4"
- ③ PAVEMENT MARKING LINE - 30' SKIP 10' DASH, WHITE 5"
- ④ TEMPORARY PAVEMENT MARKING - TYPE IV TAPE



4' X 8'; 1" BORDER; 10" CAPITAL LETTERS
BACKGROUND SHEETING SHALL BE SAME AS
ALL DIAMOND SHAPED CONSTRUCTION SIGNS.



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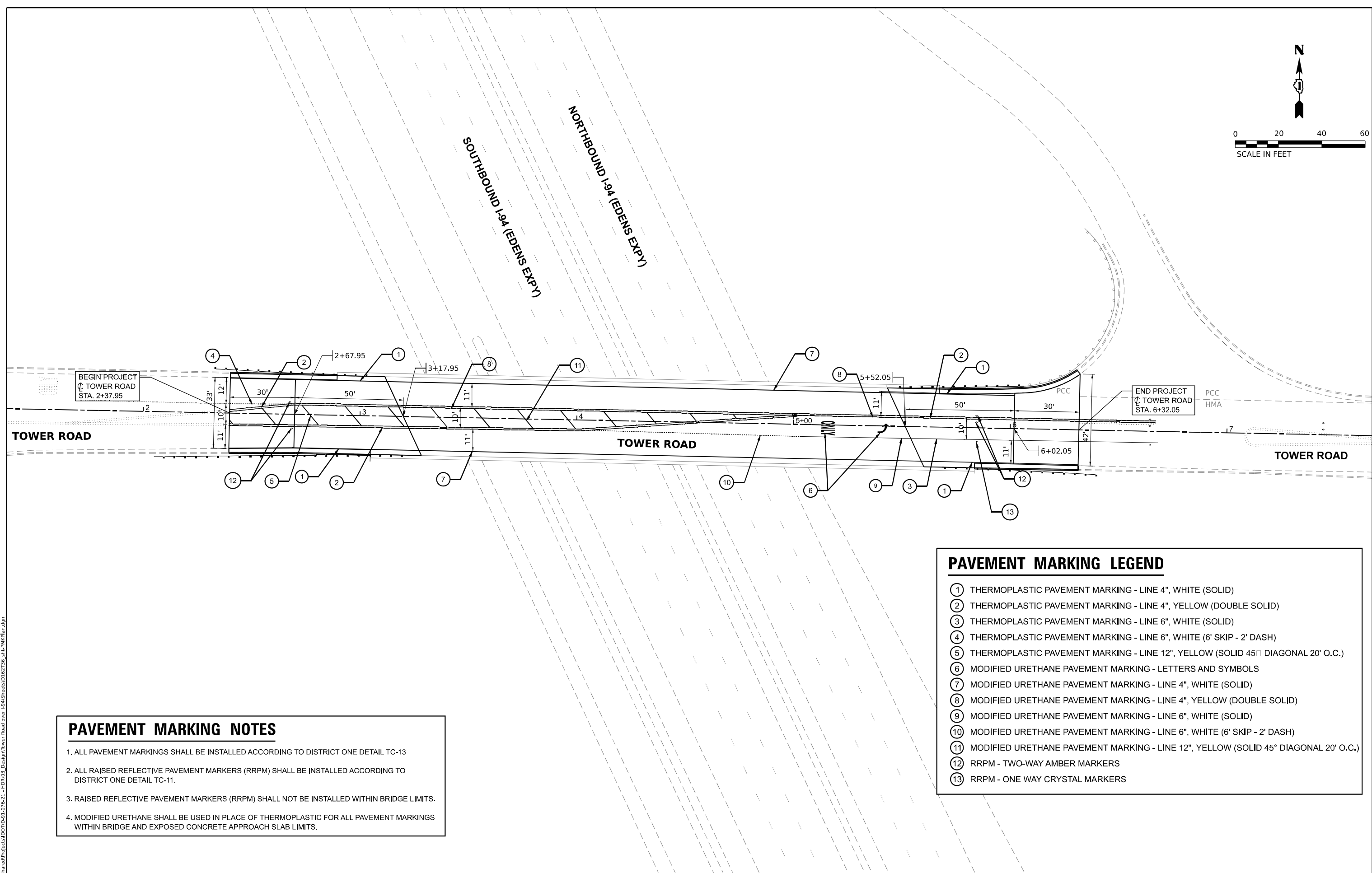
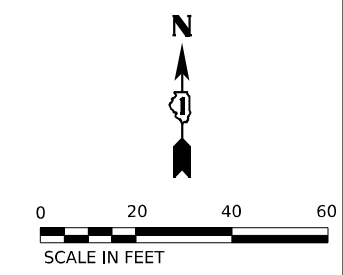
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DRAWN - SSM	CHECKED - MM	REVISED - _____
PLLOT SCALE = 100,000' / in.	DATE - 8/18/2023	REVISED - _____
PLLOT DATE = 8/18/2023		

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**MAINTENANCE OF TRAFFIC
 TOWER ROAD OVER I-94**

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. _____ TO STA. _____

F.A.U RTE. 1282	SECTION 1282-22-BJ	COUNTY COOK	TOTAL SHEETS 46	SHEET NO. 13
CONTRACT NO. 62T36			ILLINOIS FED. AID PROJECT	



PAVEMENT MARKING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO DISTRICT ONE DETAIL TC-13
2. ALL RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) SHALL BE INSTALLED ACCORDING TO DISTRICT ONE DETAIL TC-11.
3. RAISED REFLECTIVE PAVEMENT MARKERS (RRPM) SHALL NOT BE INSTALLED WITHIN BRIDGE LIMITS.
4. MODIFIED URETHANE SHALL BE USED IN PLACE OF THERMOPLASTIC FOR ALL PAVEMENT MARKINGS WITHIN BRIDGE AND EXPOSED CONCRETE APPROACH SLAB LIMITS.

PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE (SOLID)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4", YELLOW (DOUBLE SOLID)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE (SOLID)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6", WHITE (6' SKIP - 2' DASH)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 12", YELLOW (SOLID 45° DIAGONAL 20' O.C.)
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ MODIFIED URETHANE PAVEMENT MARKING - LINE 4", WHITE (SOLID)
- ⑧ MODIFIED URETHANE PAVEMENT MARKING - LINE 4", YELLOW (DOUBLE SOLID)
- ⑨ MODIFIED URETHANE PAVEMENT MARKING - LINE 6", WHITE (SOLID)
- ⑩ MODIFIED URETHANE PAVEMENT MARKING - LINE 6", WHITE (6' SKIP - 2' DASH)
- ⑪ MODIFIED URETHANE PAVEMENT MARKING - LINE 12", YELLOW (SOLID 45° DIAGONAL 20' O.C.)
- ⑫ RRPM - TWO-WAY AMBER MARKERS
- ⑬ RRPM - ONE WAY CRYSTAL MARKERS

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	DRAWN -	REVISED -
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PLOT DATE = 9/29/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

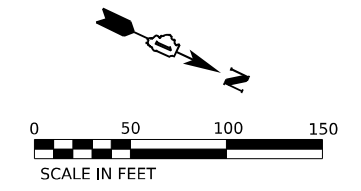
PAVEMENT MARKING PLAN
TOWER ROAD AT I-94

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282-22-BJ	COOK	46	14
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				

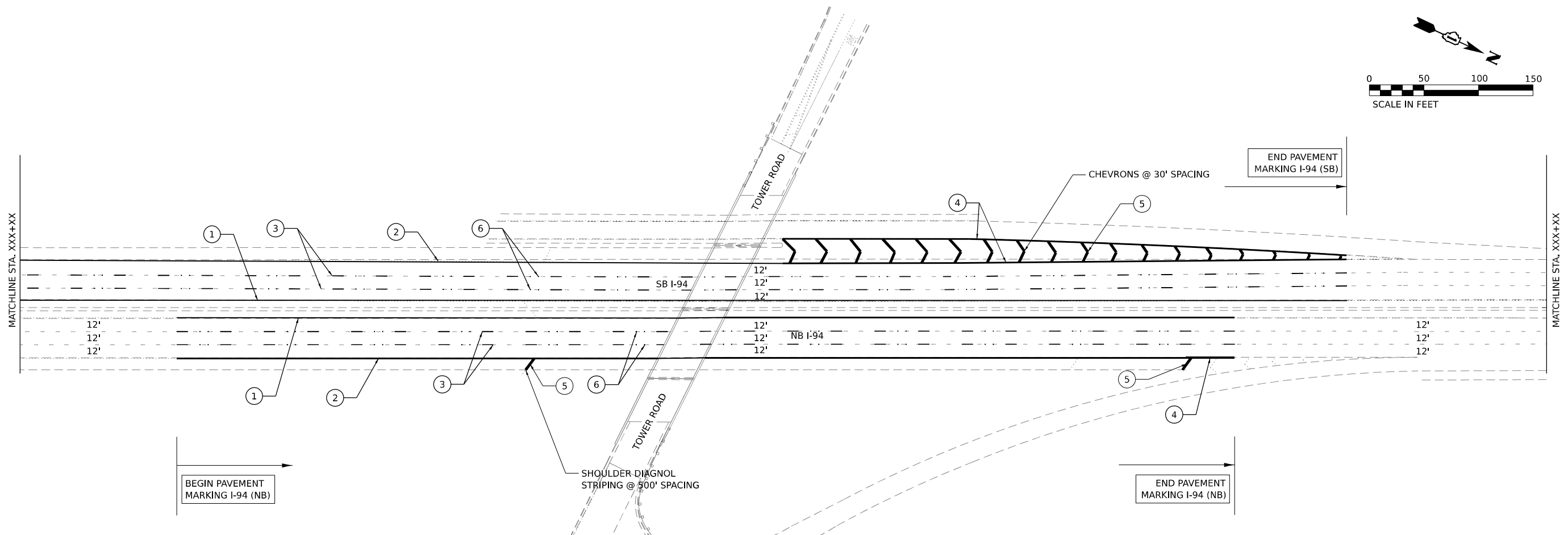
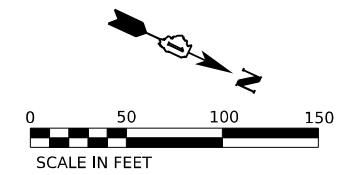
PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING LINE - SOLID, YELLOW 4"
- ② THERMOPLASTIC PAVEMENT MARKING LINE - SOLID, WHITE 4"
- ③ THERMOPLASTIC PAVEMENT MARKING LINE - 30' SKIP 10' DASH, WHITE 5"
- ④ THERMOPLASTIC PAVEMENT MARKING LINE - SOLID, WHITE 8"
- ⑤ THERMOPLASTIC PAVEMENT MARKING LINE - SOLID, WHITE 12"
- ⑥ CLUSTER OF 2 CRYSTAL RAISED PAVEMENT MARKERS (RPMs) @ 80' SPACING



NOTES:

1. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-12, "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS."
2. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH TC-11, "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.



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OSEH inc.
 405 S CARLTON AVE
 SUITE 200
 WILSONVILLE, IL 60187
 WWW.OSEHINC.COM

USER NAME = SravanMaringanti	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISOR - _____	REVISOR - _____
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PLOT DATE = 8/18/2023	DATE - _____	REVISOR - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
 TOWER ROAD OVER I-94**

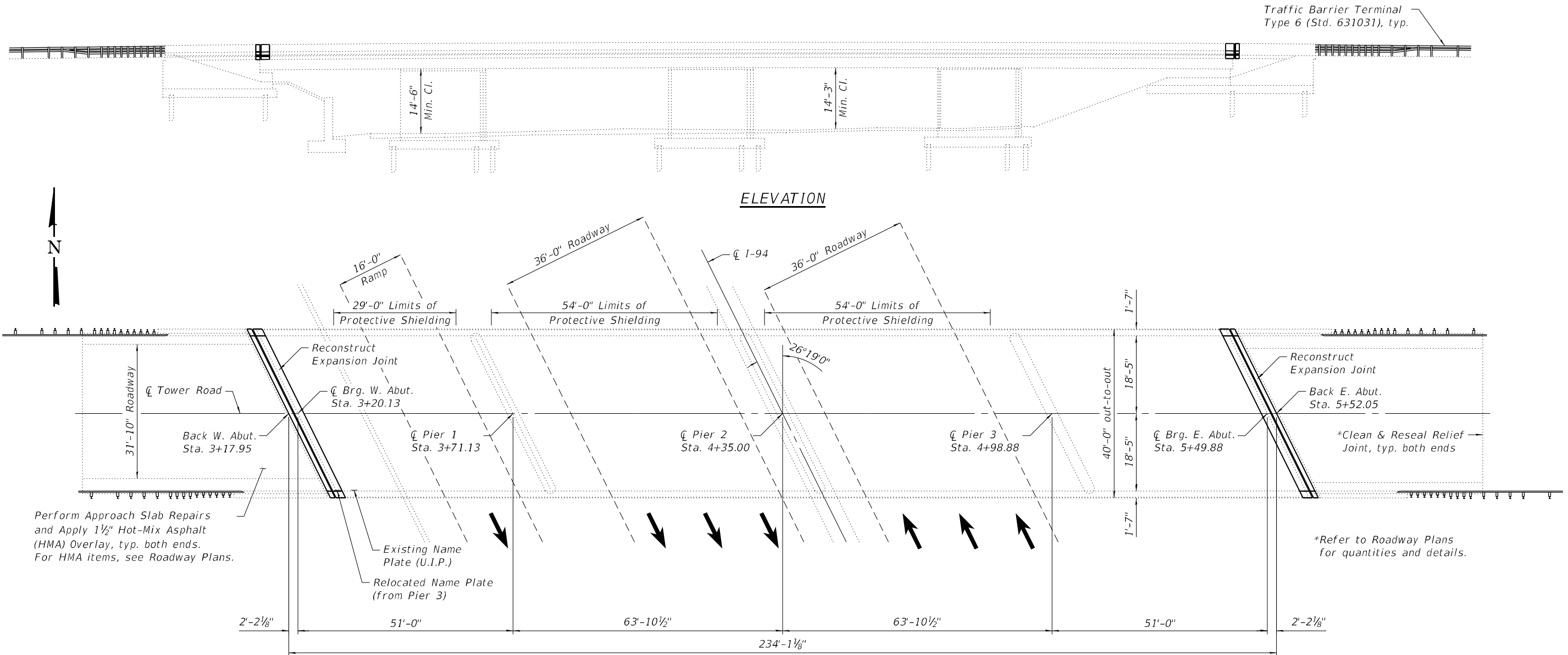
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282-22-BJ	COOK	46	15
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				

Existing Structure: Structure No. 016-0815 was originally constructed in 1949. In 1989, rehabilitation was performed and consisted of deck replacement and substructure/superstructure widening. The current bridge is a four-span structure (51'-0", 63'-10½", 63'-10½", 51'-0") with total length of 234'-1½" (back-to-back abutments) and an overall width of 40'-0" (out-to-out deck). The superstructure consists of a 7½" thick reinforced concrete deck on continuous steel W33 wide-flange beams. The substructure consists of reinforced concrete abutments on concrete piles and reinforced concrete solid wall piers on spread footings supported by concrete piles.

Salvage: None

Traffic Control: Road to be closed during construction with detour in place.



DESIGN STRESSES

FIELD UNITS (New Const.)

$f'_c = 3,500$ psi
 $f'_c = 4,000$ psi (Superstructure)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

FIELD UNITS (1989 Const.)

$f_c = 1,400$ psi
 $f_s = 24,000$ psi (Reinforcement)
 $f_s = 48,000$ psi (A-7)

FIELD UNITS (1949 Const.)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_s = 20,000$ psi (M183)

LOADING HS20-44

No allowance for future wearing surface.

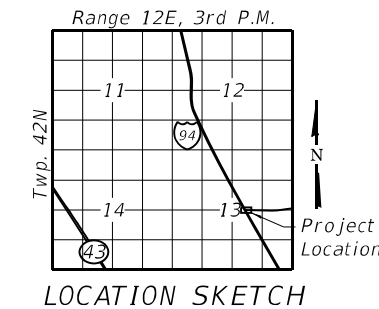
DESIGN SPECIFICATIONS

2002 Standard Specifications for Highway Bridges, 17th Edition

PLAN



Signed: Alex C. Benz
 Date: 8/17/2023
 License Expires: 11/30/2024



GENERAL PLAN AND ELEVATION
TOWER ROAD OVER I-94
F.A.U. 1282 - SEC. 1282 22 BJ
COOK COUNTY
STATION 4+35.00
STRUCTURE NO. 016-0815

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EFK•Moen
 Civil Engineering Design

USER NAME = ABenz	DESIGNED - ACB	REVISED -
PLOT SCALE =	CHECKED - CDL	REVISED -
PLOT DATE = 8/17/2023	DRAWN - ACB	REVISED -
	CHECKED - CDL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-0815

SHEET 1 OF 15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	16
CONTRACT NO. 62T36				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

- Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts Bolts 3/4-in. Ø, holes 15/16-in. Ø, unless otherwise noted.
- All structural steel shall be AASHTO M 270 Grade 50.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to Concrete Removal.
- Prior to pouring the new concrete deck for expansion joint reconstruction and deck slab repairs, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld area shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4" deep shall be identified and reported to the Bureau of Bridges and Structures for further dispositions. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- 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.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Existing structural steel that will be in contact with new structural steel shall be cleaned and painted as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."
- All new structural steel shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel."
- The Contractor shall exercise care during removal of existing joints to ensure that the integrity of the slab, beams, and diaphragms will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams, and diaphragms caused by their operation as directed by the Engineer at no additional cost to the Department.
- The Contractor shall take all necessary precautions for the protection of passing vehicles from falling objects and/or materials until completion of work.
- Existing name plate from Pier 3 shall be removed, cleaned, and incorporated into the new construction. Cost included with Relocating Name Plates.

SCOPE OF WORK

- Install Protective Shield.
- Perform 3/4" Bridge Deck Scarification.
- Perform Deck Slab Repairs and Approach Slab Repairs as required.
- Reconstruct bridge deck expansion joints at the West and East Abutments and install new preformed joint strip seal.
- Perform parapet repairs.
- Apply a 2 1/4" Bridge Deck Latex Concrete Overlay on bridge deck and 1 1/2" Hot-Mix Asphalt (HMA Overlay on Approach Slabs).
- Perform Bridge Deck Grooving.
- Apply Protective Coat on the top surface of the latex overlay and inside face and top faces of the new concrete at the deck joints.
- Perform Beam Repair at the location, and to the limits, indicated on the plans.
- Perform Structural Repair of Concrete to the abutments and piers as noted on the plans.
- Remove and replace section of slopewall as indicated on the plans.
- Seal gap between west abutment and slopewall.

INDEX OF SHEETS

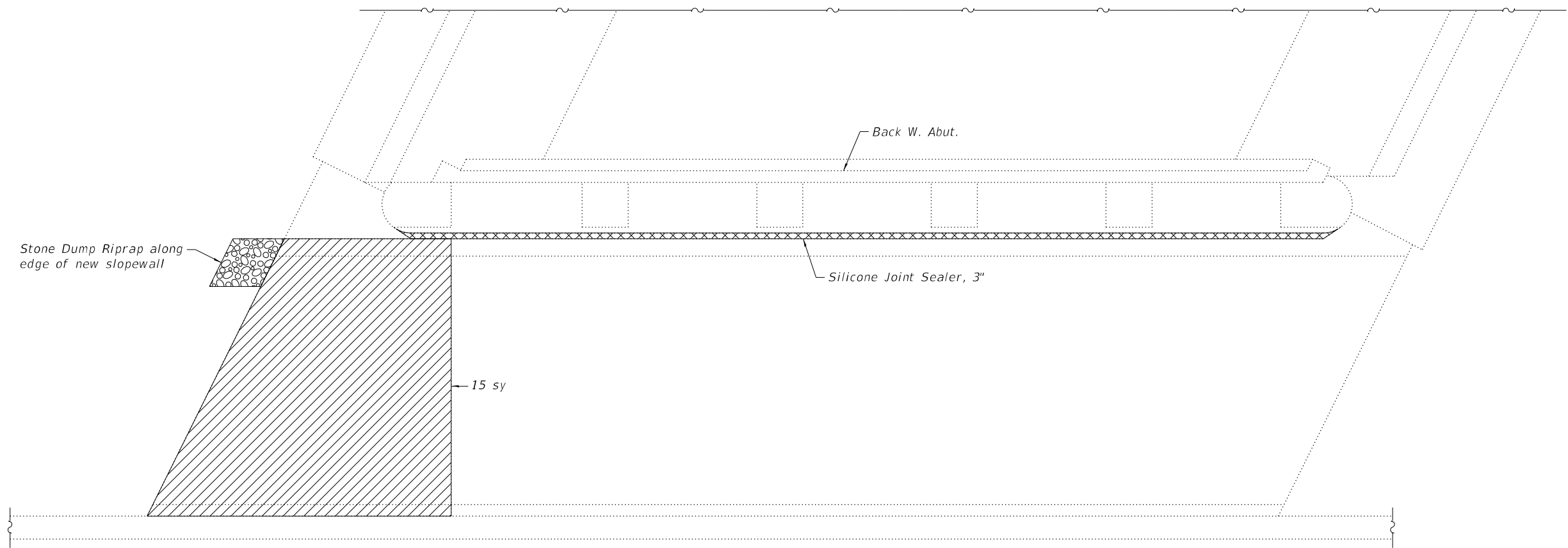
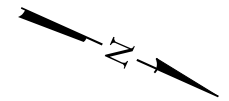
- General Plan and Elevation
- General Data
- Slopewall Repairs
- Deck Cross Section
- Deck Repair Plan
- Parapet Repairs
- Expansion Joint Reconstruction
- Expansion Joint Reconstruction
- Preformed Joint Strip Seal
- Structural Steel Repairs
- West Abutment Repairs
- East Abutment Repairs
- Pier 1 Repairs
- Pier 2 Repairs
- Pier 3 Repairs

TOTAL BILL OF MATERIAL

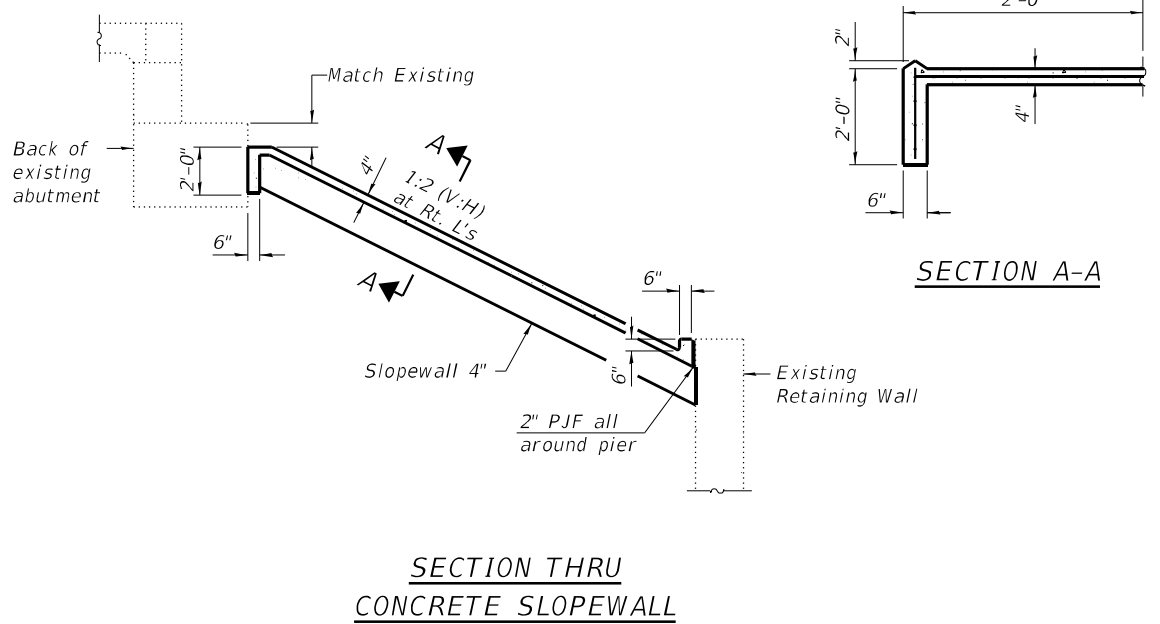
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A4	Sq. Yd.		5	5
Concrete Removal	Cu. Yd.	10.1		10.1
Slope Wall Removal	Sq. Yd.		15	15
Protective Shield	Sq. Yd.	666		666
Concrete Superstructure	Cu. Yd.	11.1		11.1
Bridge Deck Grooving	Sq. Yd.	906		906
Protective Coat	Sq. Yd.	963		963
Furnishing and Erecting Structural Steel	Pound	1,470		1,470
Reinforcement Bars, Epoxy Coated	Pound	1,450		1,450
Slope Wall 4 Inch	Sq. Yd.		15	15
Preformed Joint Strip Seal	Foot	87		87
Epoxy Crack Injection	Foot	12	33	45
Approach Slab Repairs (Full Depth)	Sq. Yd.	48		48
Approach Slab Repairs (Partial Depth)	Sq. Yd.	2		2
Structural Steel Removal	Pound	1,740		1,740
Structural Steel Repair	Pound	960		960
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	Sq. Yd.	929		929
Bridge Deck Scarification 3/4"	Sq. Yd.	929		929
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	20	311	331
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.		8	8
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	4		4
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	4		4
Silicone Joint Sealer, 3"	Foot		40	40
Relocating Name Plates	Each	1		1
Temporary Shoring and Cribbing	Each	3		3

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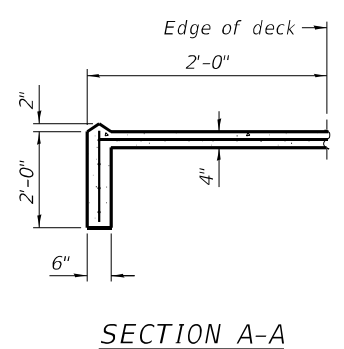
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SHEET 2 OF 15 SHEETS						ILLINOIS FED. AID PROJECT				



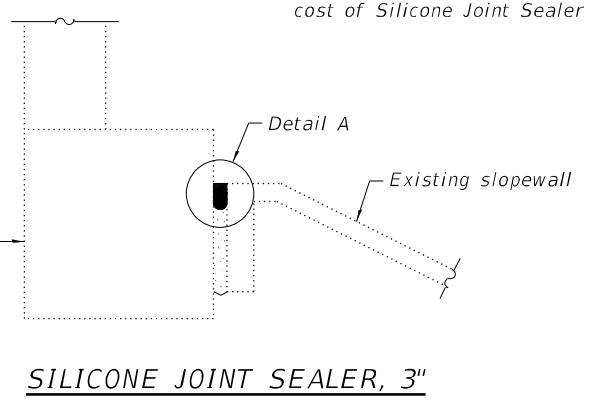
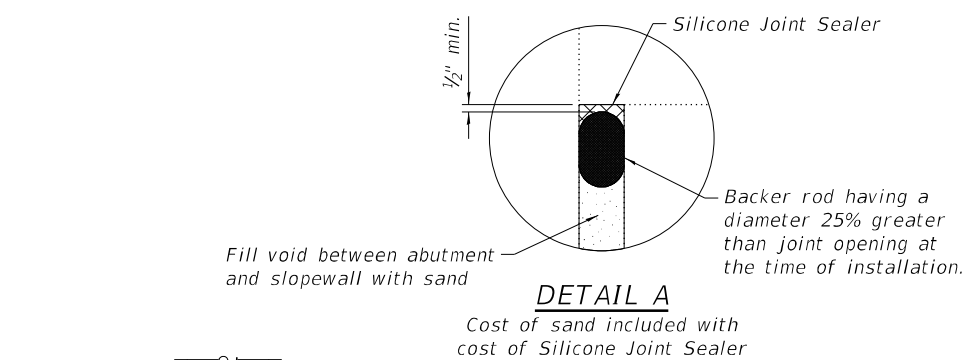
PLAN



**SECTION THRU
CONCRETE SLOPEWALL**



SECTION A-A



SILICONE JOINT SEALER, 3"

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

LEGEND

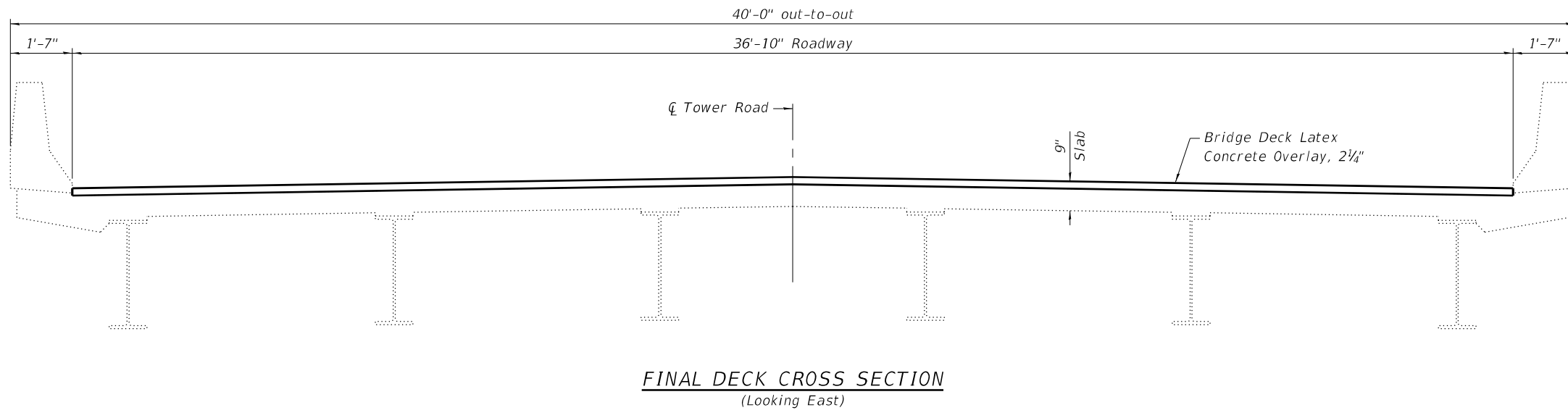
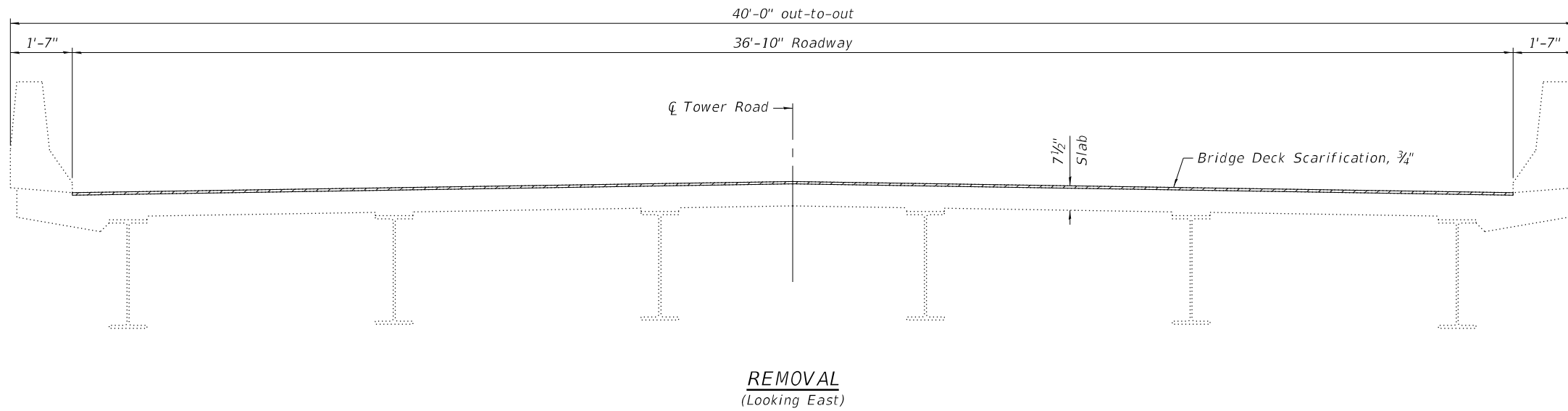
- Remove and Replace Slopewall
- Silicone Joint Sealer, 3"

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Dumped Riprap, Class A4	Sq. Yd.	5
Slope Wall Removal	Sq. Yd.	15
Slope Wall 4 Inch	Sq. Yd.	15
Silicone Joint Sealer, 3"	Foot	40

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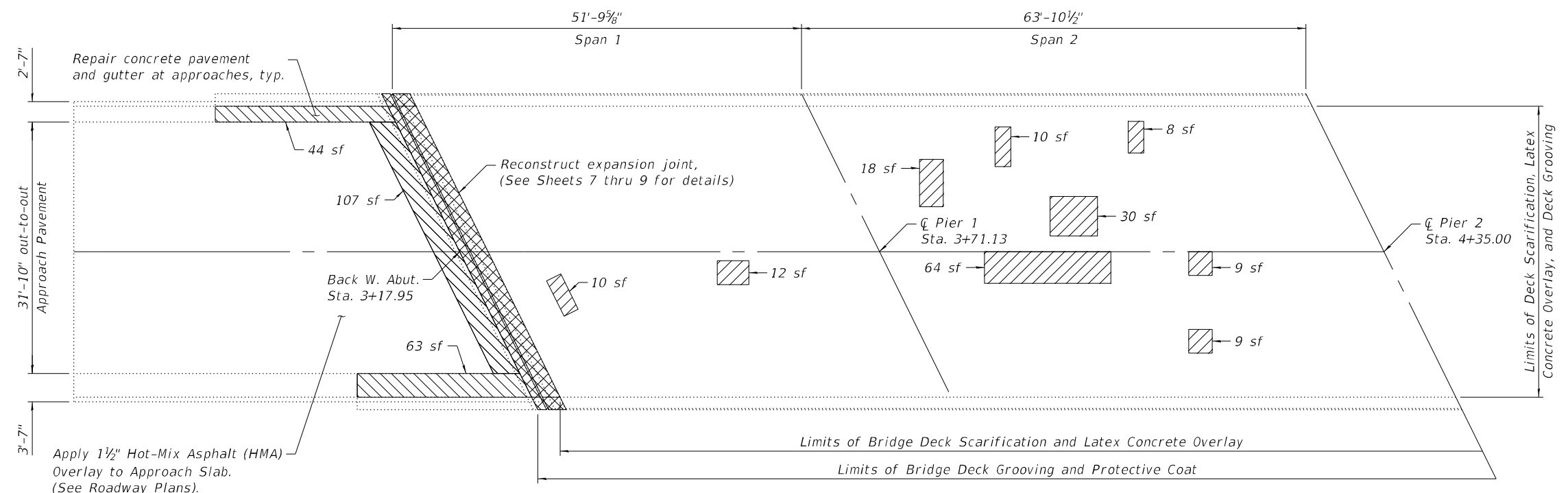


Notes:
 For quantities and additional details, see Sheet 5.
 For West and East Abutment Expansion Joint removal and reconstruction, see Sheets 7 and 8.
 For Parapet Repairs, see Sheet 6.

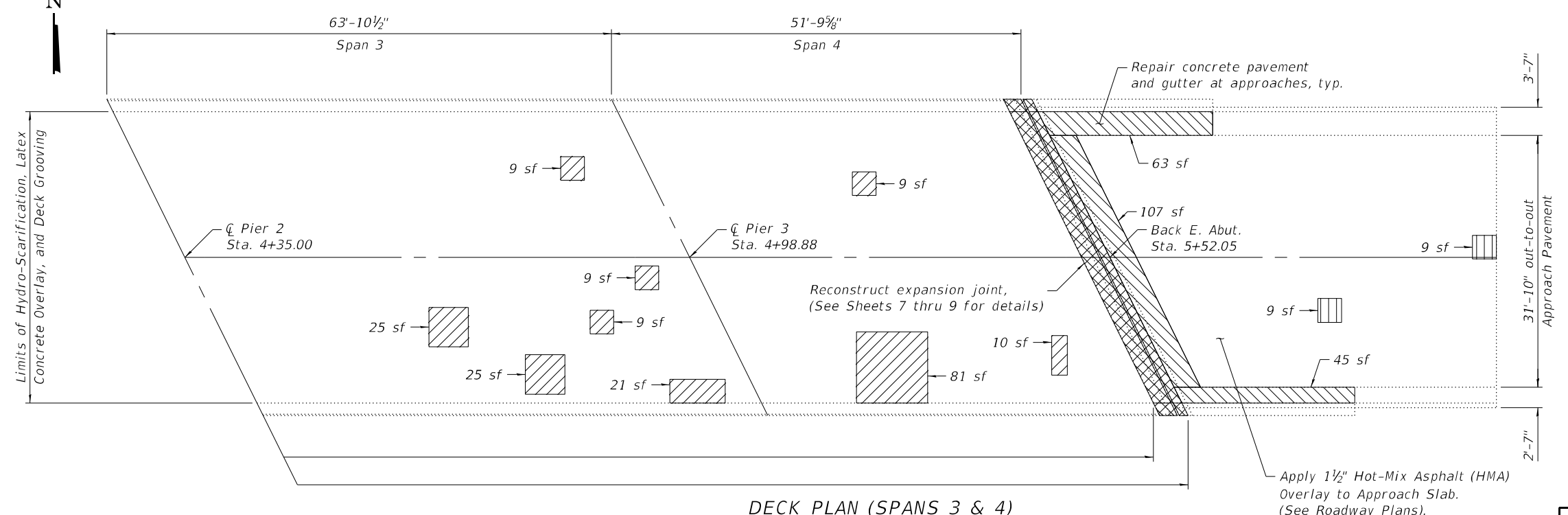
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				

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DECK PLAN (SPANS 1 & 2)



DECK PLAN (SPANS 3 & 4)

Notes:
 Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-Built Plans.
 Only partial depth deck repairs are anticipated at locations away from joints; however, a nominal quantity of both Deck Slab Repair (Full Depth, Type I) and Deck Slab Repair (Full Depth, Type II) is included in the Bill of Materials to account for some repair areas shown on the plans extending through more than half of the deck cross section. Actual depth of repairs to be verified by the Engineer.
 For West and East Abutment Expansion Joint removal and reconstruction, see Sheets 7 thru 9.
 For Parapet Repairs, see Sheet 6.
 Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost incidental to Concrete Removal.

LEGEND

- Deck Slab Repair (Partial) *
- Concrete Removal
- Approach Slab Repair (Full Depth)
- Approach Slab Repair (Partial Depth)

*Areas of Deck Slab Repair (Partial) are provided for information only to assist Contractor in bidding. See Special Provisions for "Bridge Deck Latex Concrete Overlay".

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Bridge Deck Grooving	Sq. Yd.	906
Protective Coat	Sq. Yd.	963
Approach Slab Repair (Full Depth)	Sq. Yd.	48
Approach Slab Repair (Partial Depth)	Sq. Yd.	2
Bridge Deck Latex Concrete Overlay, 2 1/4 Inches	Sq. Yd.	929
Bridge Deck Scarification 3/4"	Sq. Yd.	929
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	4
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	4



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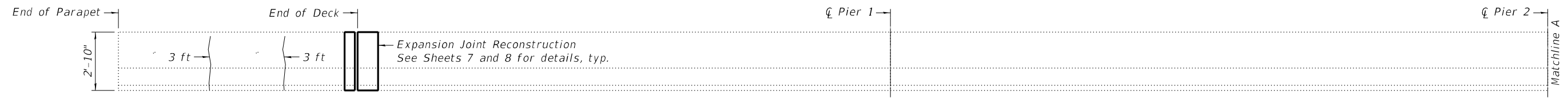
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK REPAIR PLAN
STRUCTURE NO. 016-0815

SHEET 5 OF 15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	20
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				

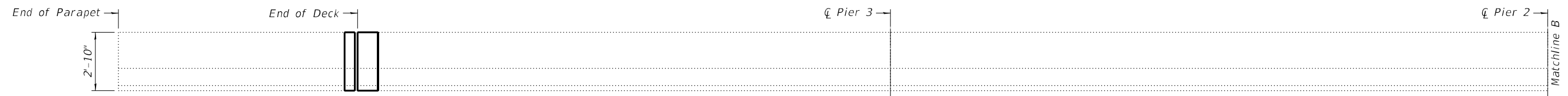
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INSIDE ELEVATION - NORTH PARAPET
 (Looking North)



INSIDE ELEVATION - NORTH PARAPET
 (Looking North)



INSIDE ELEVATION - SOUTH PARAPET
 (Looking South)



INSIDE ELEVATION - SOUTH PARAPET
 (Looking South)

Fill open holes from removed guardrail terminal connections with gray colored polyurethane sealant according to Article 1050.04 of the Standard Specifications. Cost included with Concrete Superstructure (typ.).

LEGEND

- Structural Repair of Concrete
 (Depth Equal to or Less than 5 Inches)
- Epoxy Crack Injection

BILL OF MATERIAL

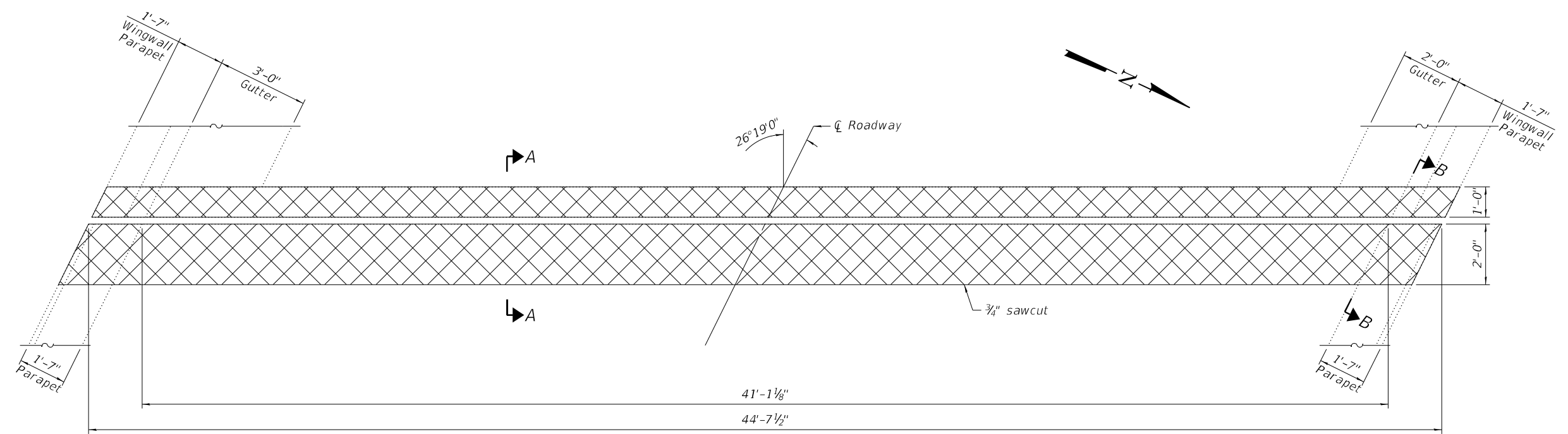
ITEM	UNIT	TOTAL
Epoxy Crack Injection	Foot	12
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	20

Notes:
 For parapet removal and reconstruction, see Sheets 7 and 8.
 Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repairs, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

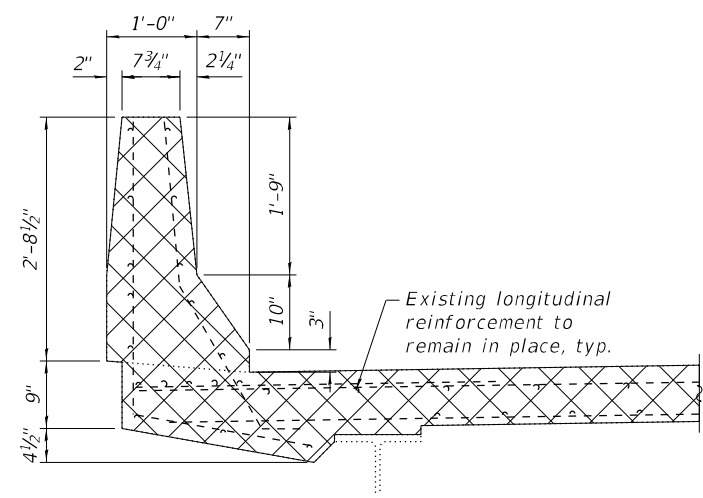
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ILLINOIS FED. AID PROJECT				

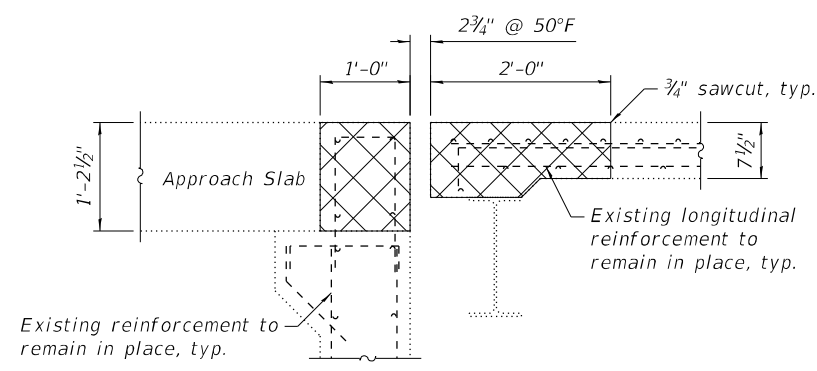
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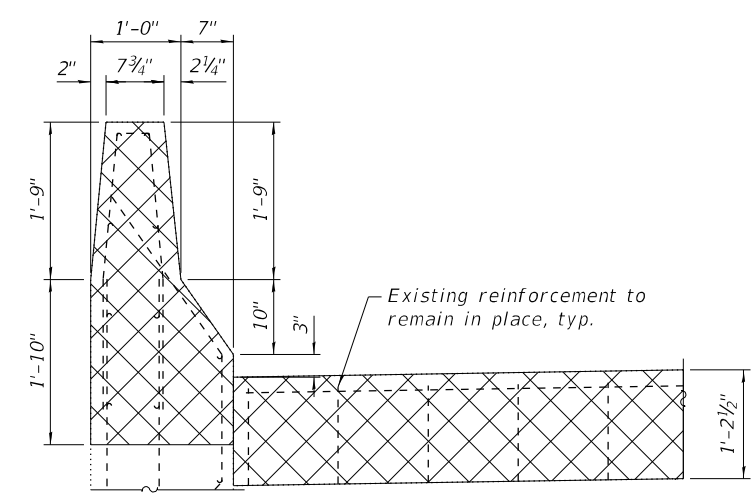
EXPANSION JOINT REMOVAL PLAN
 (West Abutment shown, East Abutment similar)



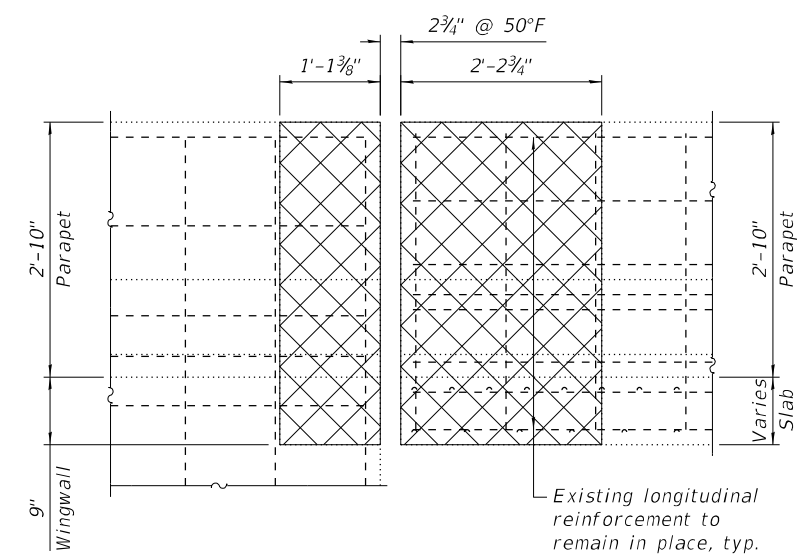
SECTION THRU DECK PARAPET



SECTION A-A



SECTION THRU WINGWALL PARAPET



SECTION B-B

Notes:
 Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
 Cost of removal and disposal of existing expansion joint is included in the cost of Concrete Removal.

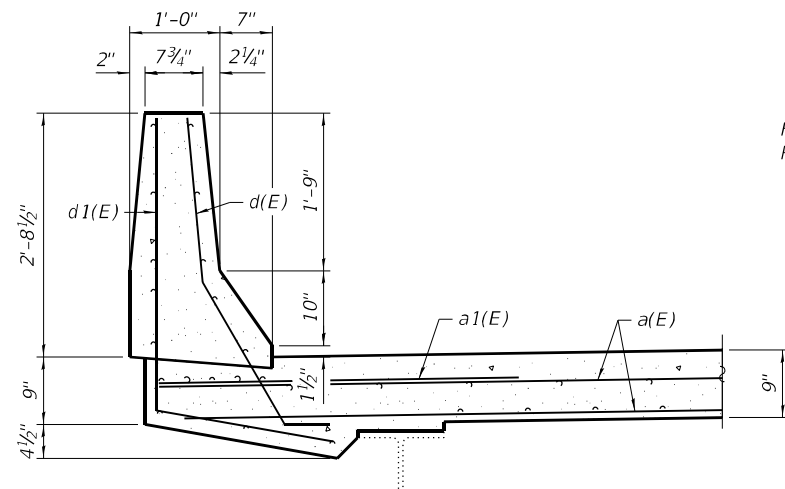
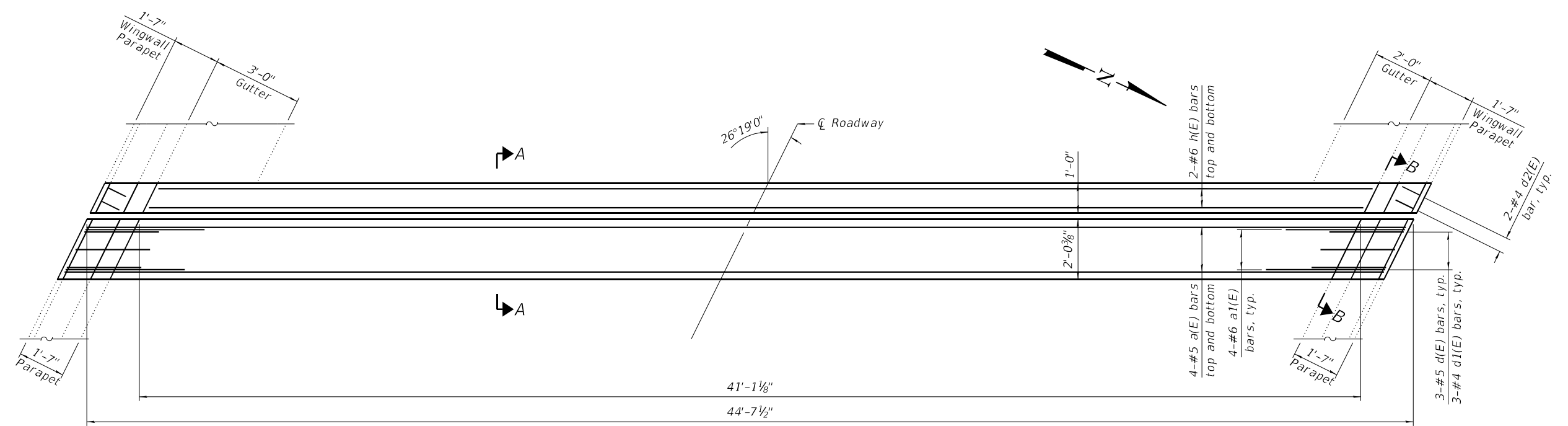
LEGEND

Concrete Removal

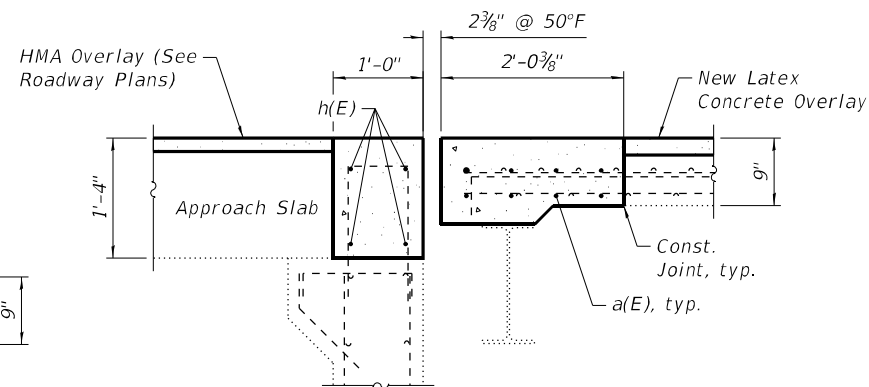
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ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	10.1

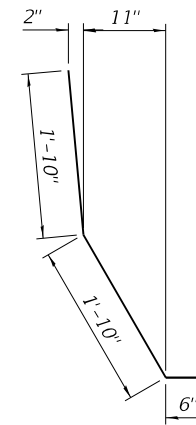
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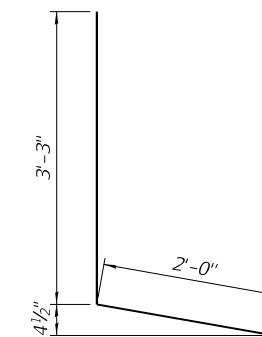
SECTION THRU DECK PARAPET



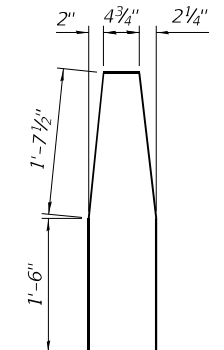
SECTION A-A



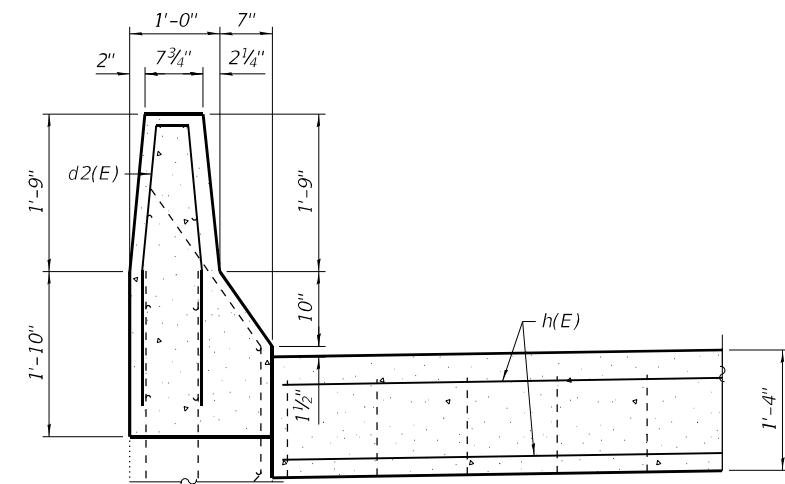
BAR d(E)



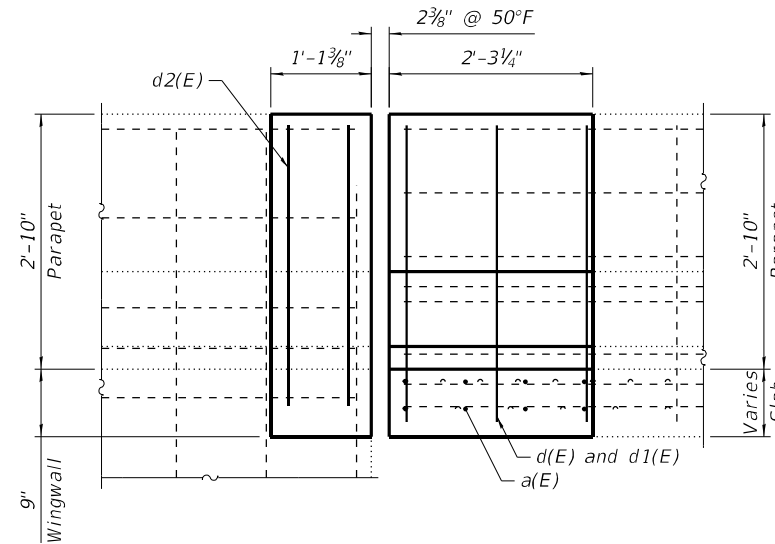
BAR d1(E)



BAR d2(E)



SECTION THRU WINGWALL PARAPET



SECTION B-B

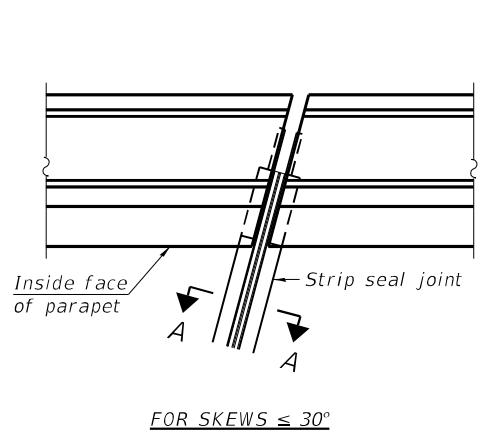
Note:
 For details of expansion joint, see Sheet 9.

BILL OF MATERIAL

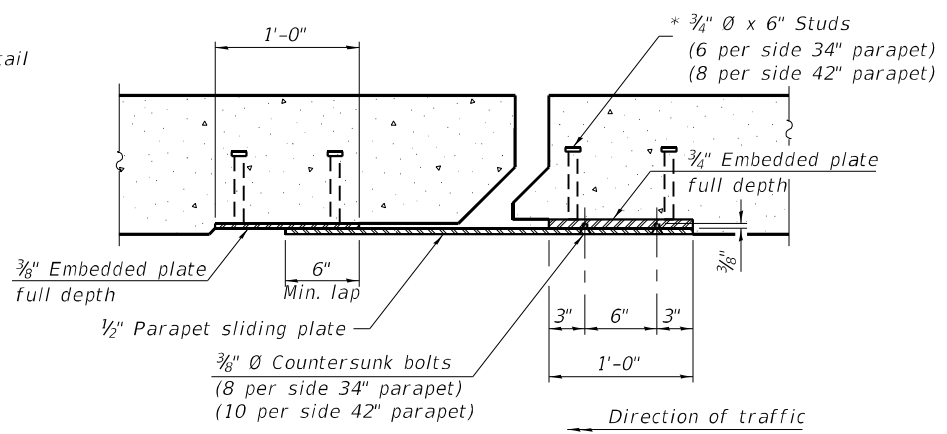
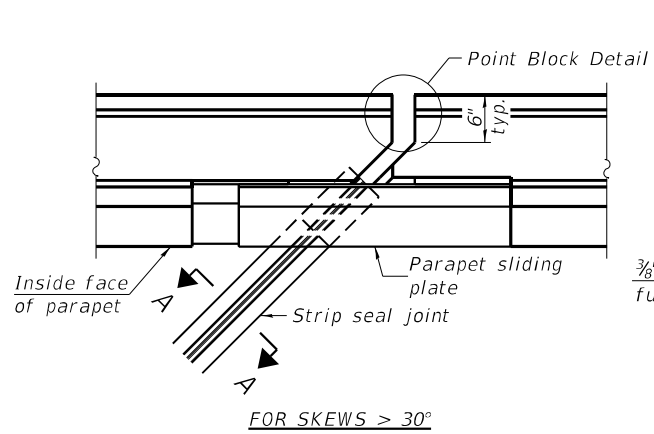
Bar	No.	Size	Length	Shape
a(E)	16	#5	44'-0"	—
a1(E)	16	#6	4'-0"	—
d(E)	12	#5	4'-2"	⌋
d1(E)	12	#4	5'-3"	⌋
d2(E)	8	#4	6'-8"	⌋
h(E)	8	#6	40'-10"	—
Reinforcement Bars, Epoxy Coated			Pound	1,450
Concrete Superstructure			Cu. Yds.	11.1

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

MODEL: Default
 FILE NAME: \\SERVER18\Projects\55412.1056.22.IDOT.D1.PTB.199-015.WO.22.Tower.Road\DCNIBridge\Final\Plotsheets\0160815-62T36-009-Preformed Joint Strip Seal.dgn
 8/17/2023 3:58:02 PM

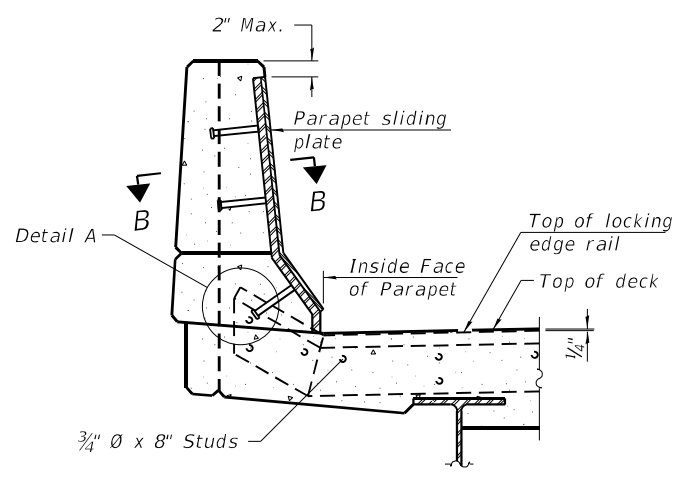


PLAN AT PARAPET



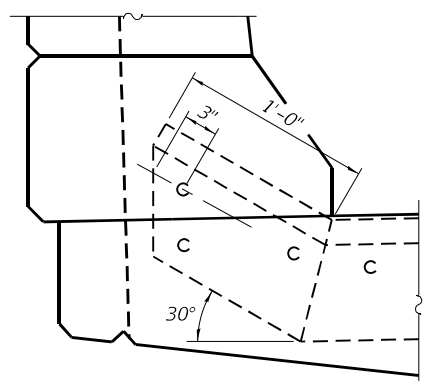
SECTION B-B

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.

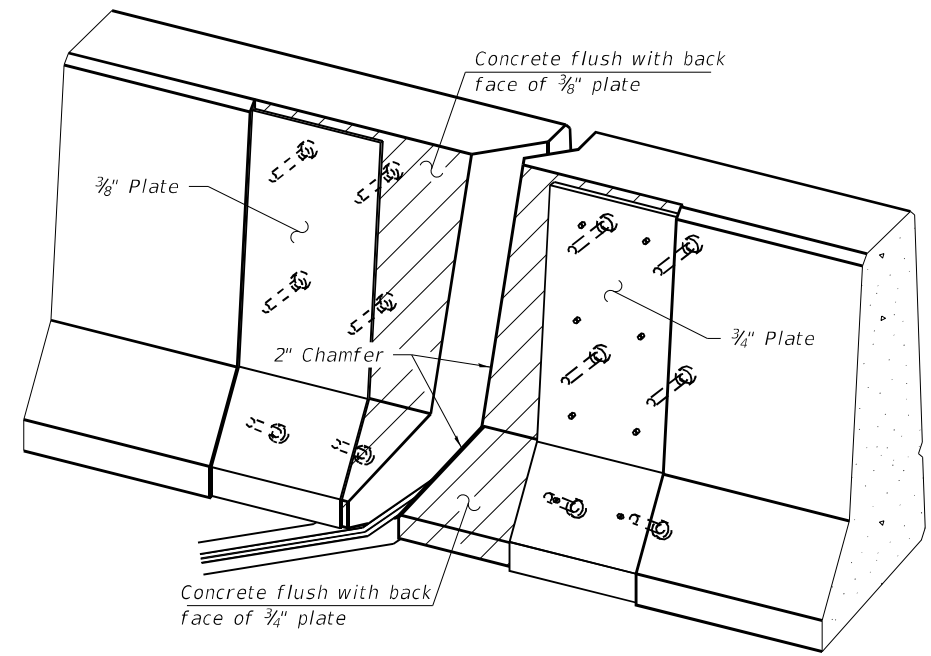


ELEVATION AT PARAPET

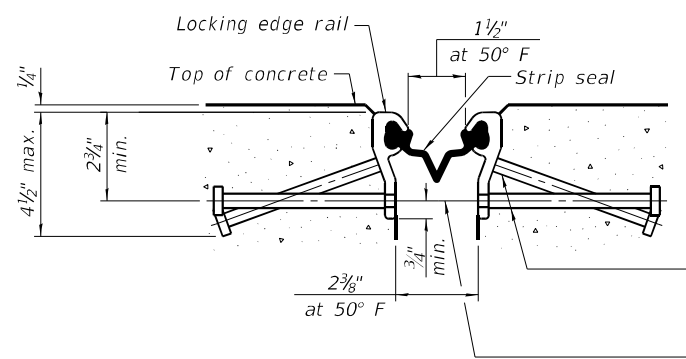
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL A

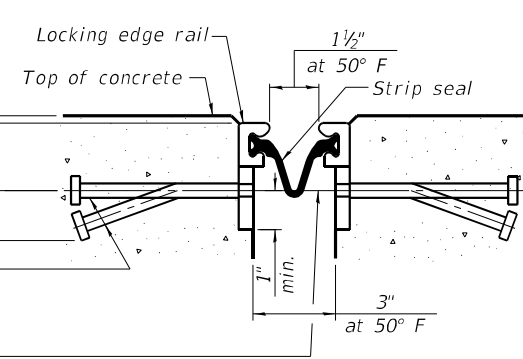


TRIMETRIC VIEW
(Showing embedded plates only)

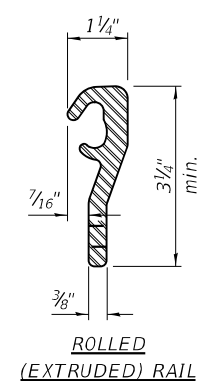


SHOWING ROLLED RAIL JOINT

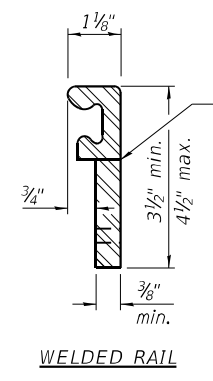
* 3/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 3/8" Ø threaded rods in 1/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates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



SHOWING WELDED RAIL JOINT



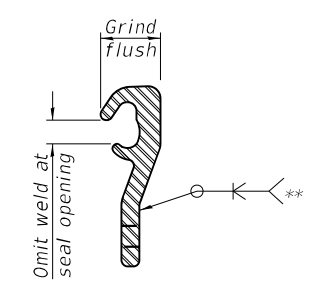
ROLLED (EXTRUDED) RAIL



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	87

EJ-SS

8-11-17

EFK Moen
Civil Engineering Design

USER NAME =	ABenz
PLOT SCALE =	
PLOT DATE =	8/17/2023

DESIGNED -	ACB
CHECKED -	CDL
DRAWN -	ACB
CHECKED -	CDL

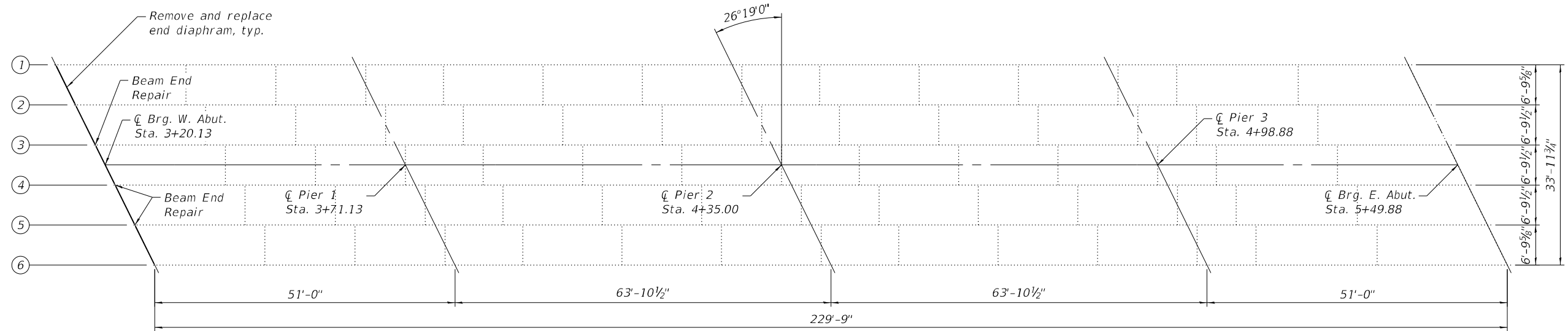
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

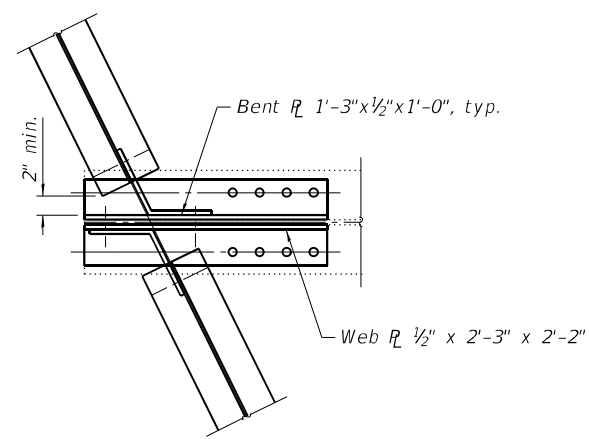
PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 016-0815

SHEET 9 OF 15 SHEETS

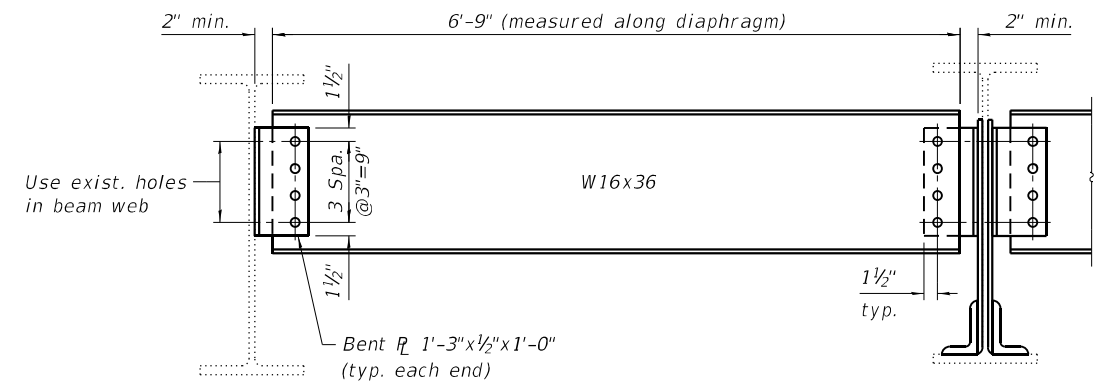
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	24
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				



FRAMING PLAN



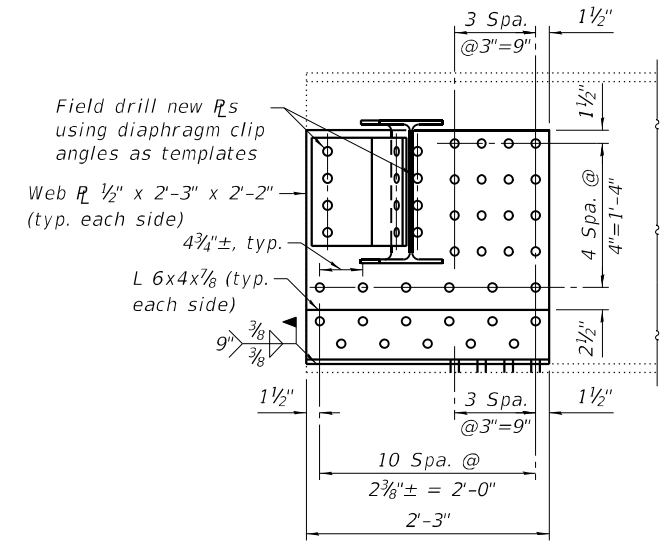
DIAPHRAGM REPLACEMENT PLAN



BEAM WITHOUT END REPAIR

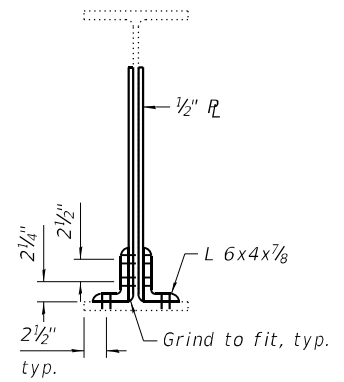
BEAM WITH END REPAIR

DIAPHRAGM REPLACEMENT DETAIL
Paid for as Furnishing and Erecting Structural Steel



BEAM END REPAIR

3 Locations. Paid for as Structural Steel Repair



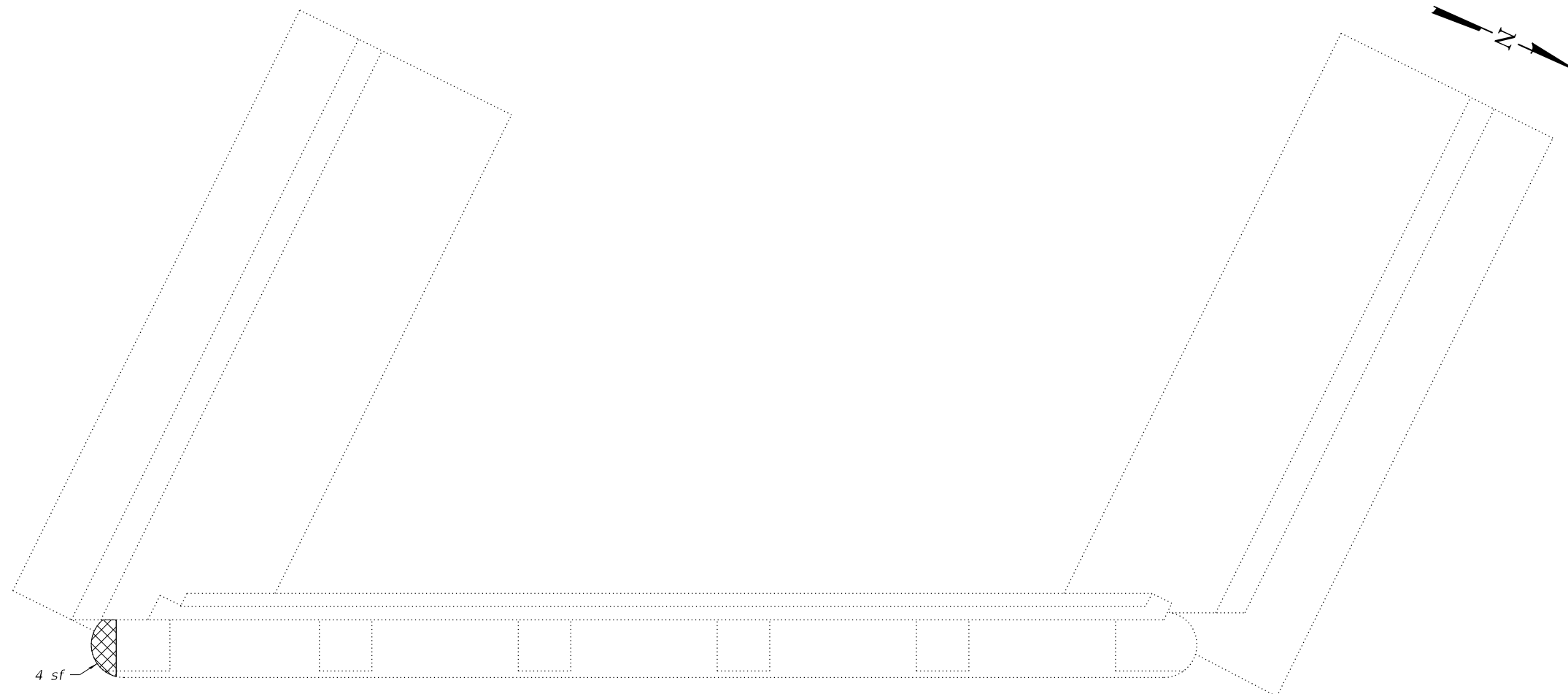
BILL OF MATERIAL

Item	Unit	Total
Structural Steel Removal	Pound	1,740
Structural Steel Repair	Pound	960
Furnishing and Erecting Structural Steel	Pound	1,470

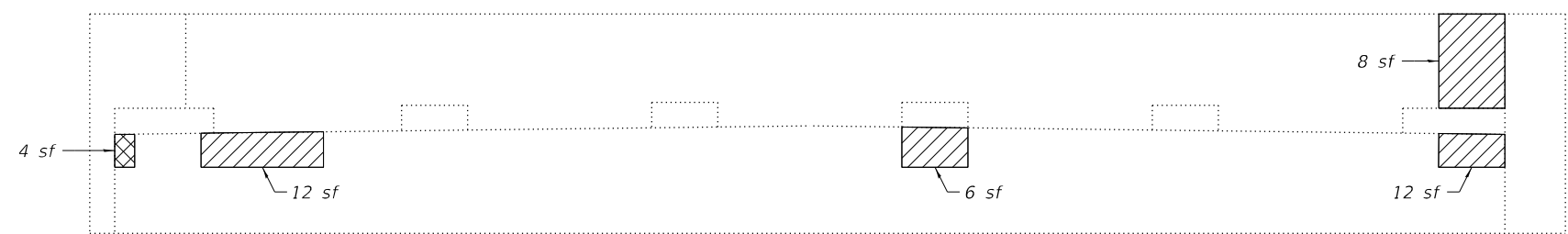
Notes:
 Cost of drilling holes in existing steel members is included with Structural Steel Repair.
 Field drill holes in diaphragms to allow for adjustment.
 Field drill 1 5/16" O holes in new Rs and Ls to match existing.
 Installation of new diaphragms shall not commence until all bolts for new web plates and clip angles are fully tightened.

MODEL: Default
 FILE NAME: \\SERVER18\Projects\55412.1056.22.IDOT.D1.PTB.199-015.WO.22.Tower.Road\DCMIBridge\Final\Plotsheets\0160815-62T36-010-Structural Steel Repairs.dgn
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PLAN



ELEVATION

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)
- Structural Repair of Concrete (Depth Greater than 5 Inches)
- Epoxy Crack Injection

BILL OF MATERIAL

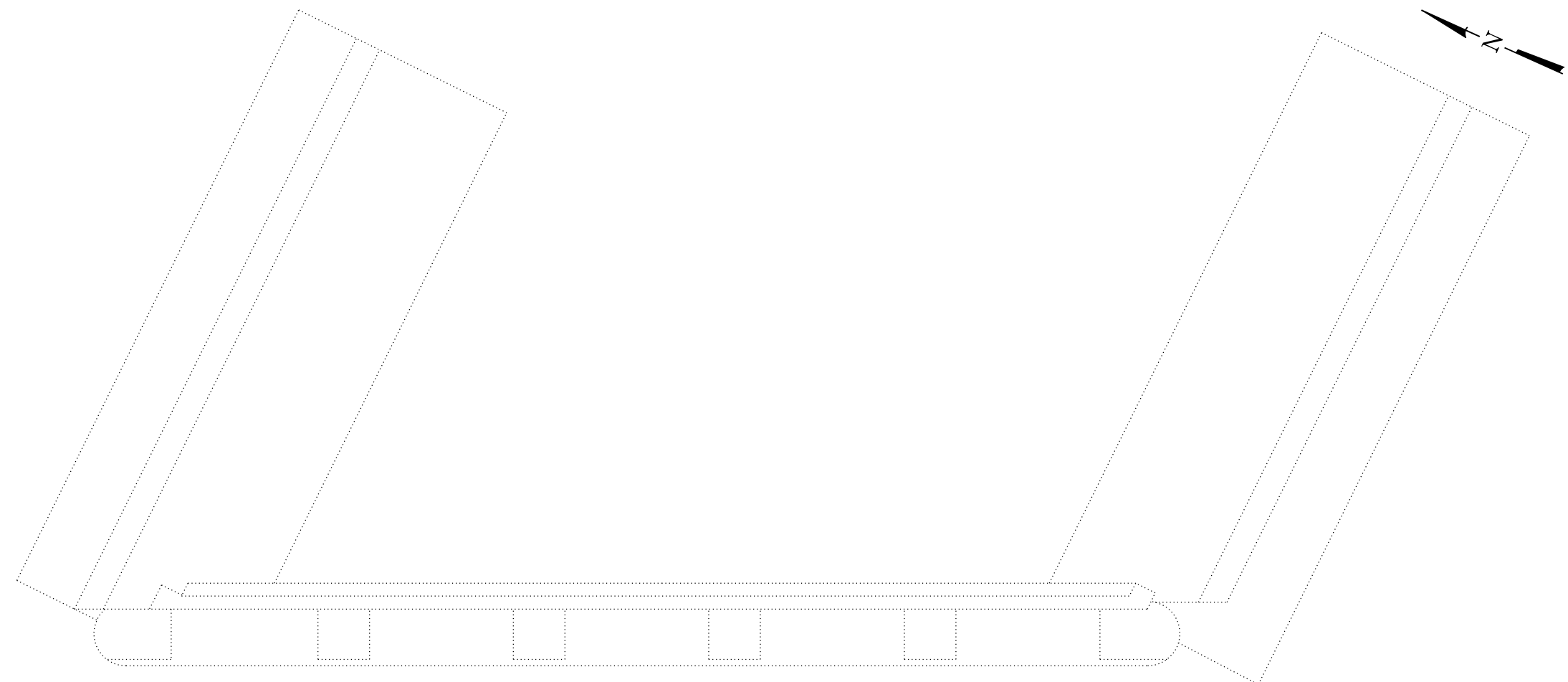
ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	38
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.	8

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

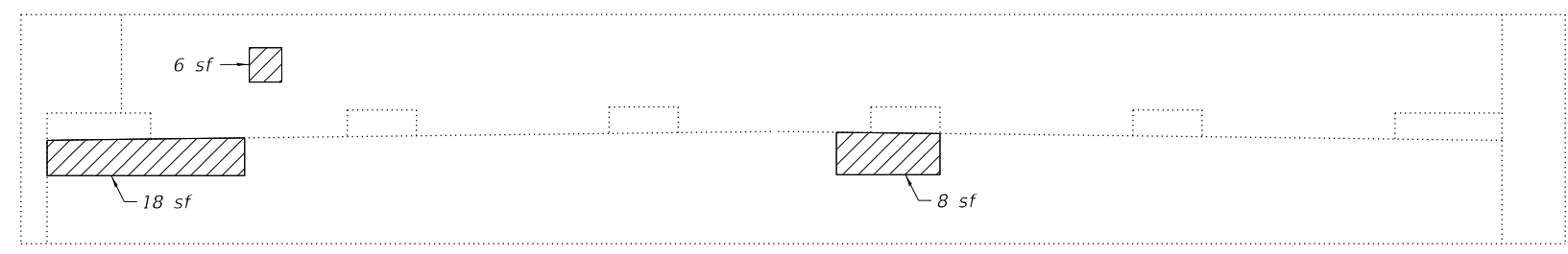
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PLOT DATE = 8/17/2023	DRAWN - ACB	REVISED -
	CHECKED - CDL	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	26
CONTRACT NO. 62T36				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: \\SERVER18\Projects\54\21056.22 IDOT D1 PTB 199-015 WO 22 Tower Road\DCM\Bridges\Final\Plotsheets\0160815-62T36-012-East Abutment Repairs.dgn



PLAN



ELEVATION

LEGEND

- Structural Repair of Concrete
(Depth Equal to or Less than 5 Inches)
- Structural Repair of Concrete
(Depth Greater than 5 Inches)
- Epoxy Crack Injection

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	32

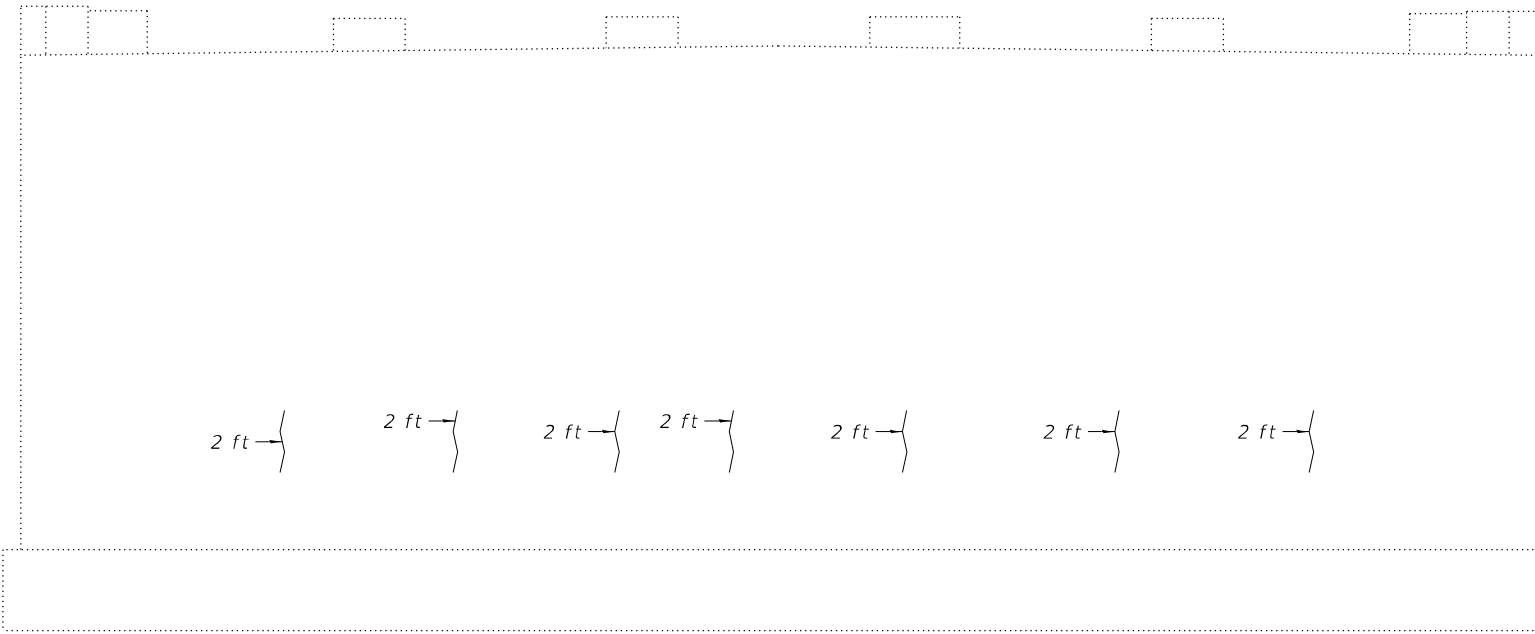
Note:
 Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repairs, and the type(s) of repairs to be used, will be determined by the Engineer in the field at the time of construction.

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PLOT DATE = 8/17/2023	CHECKED - CDL	REVISED -

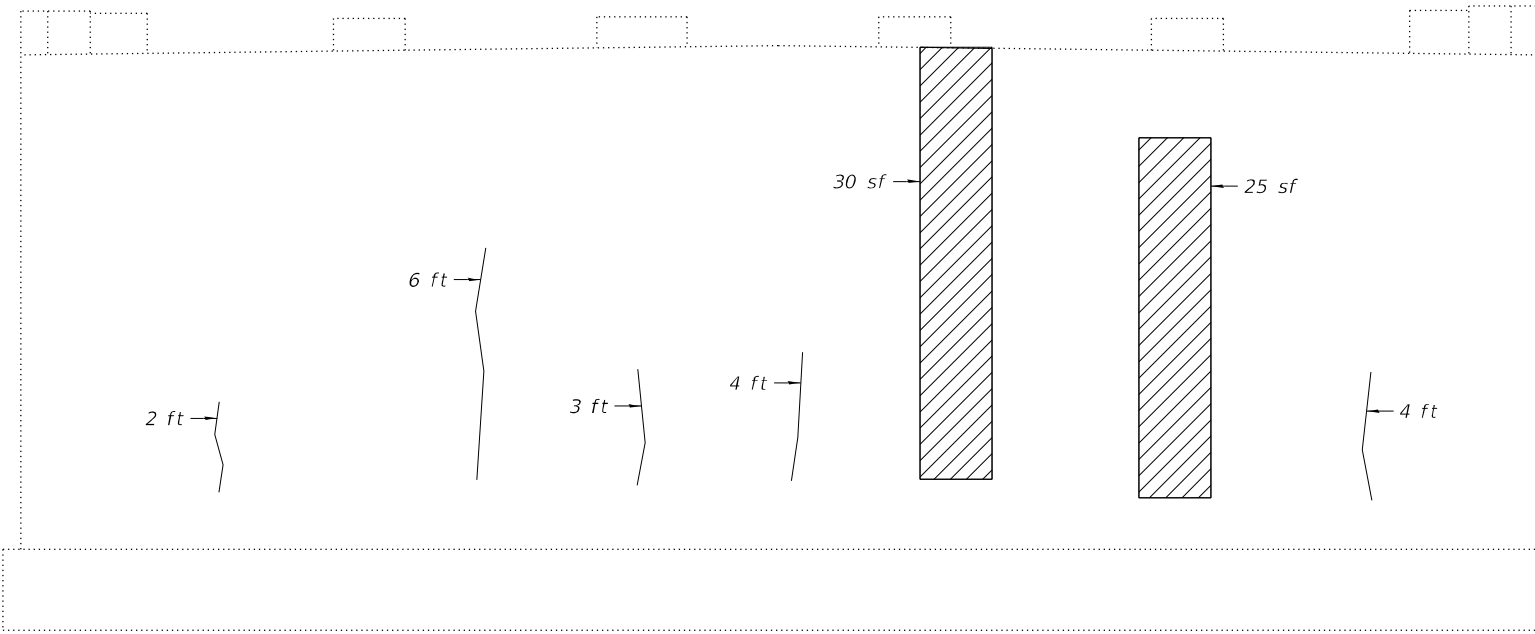
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CONTRACT NO. 62T36				
		ILLINOIS	FED. AID PROJECT	



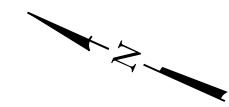
PLAN



ELEVATION
(Looking East)



ELEVATION
(Looking West)



Note:
Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repairs, 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 Inches)
- Structural Repair of Concrete (Depth Greater than 5 Inches)
- Epoxy Crack Injection

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Epoxy Crack Injection	Foot	33
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	55

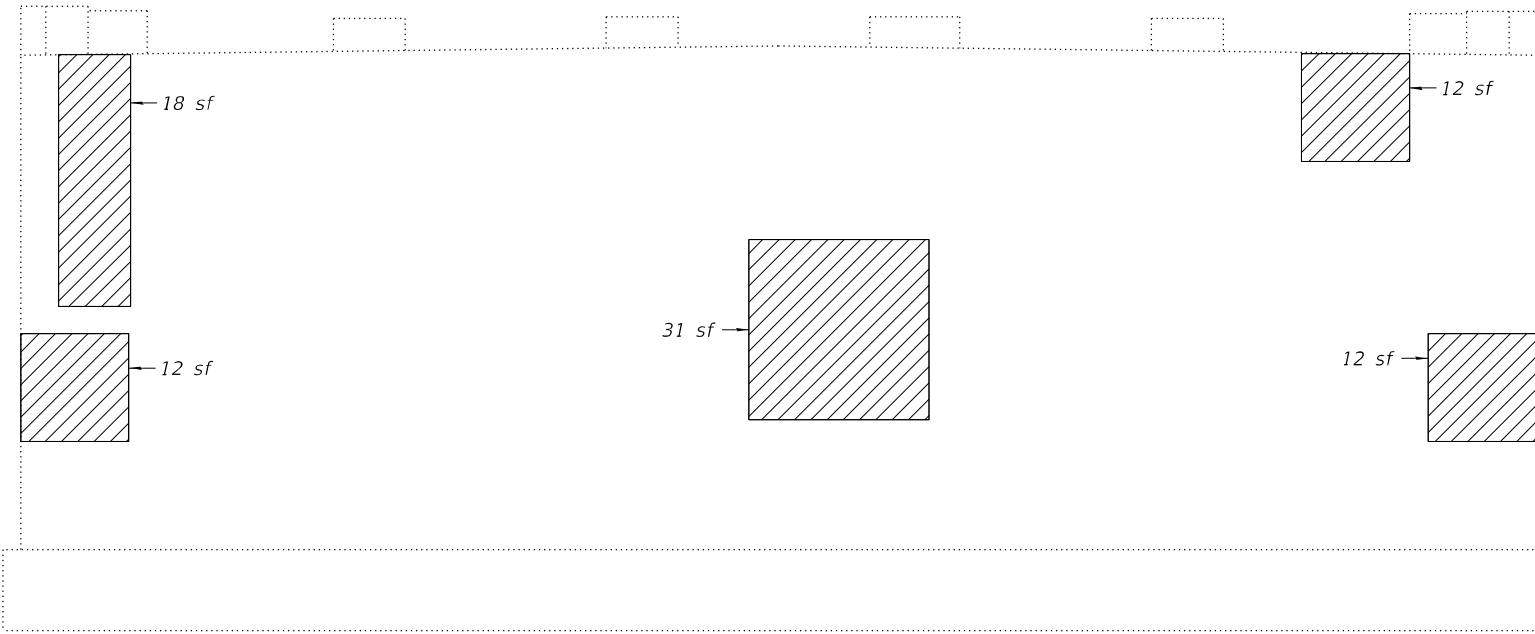
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PLOT DATE = 8/17/2023	DRAWN - ACB	REVISED -
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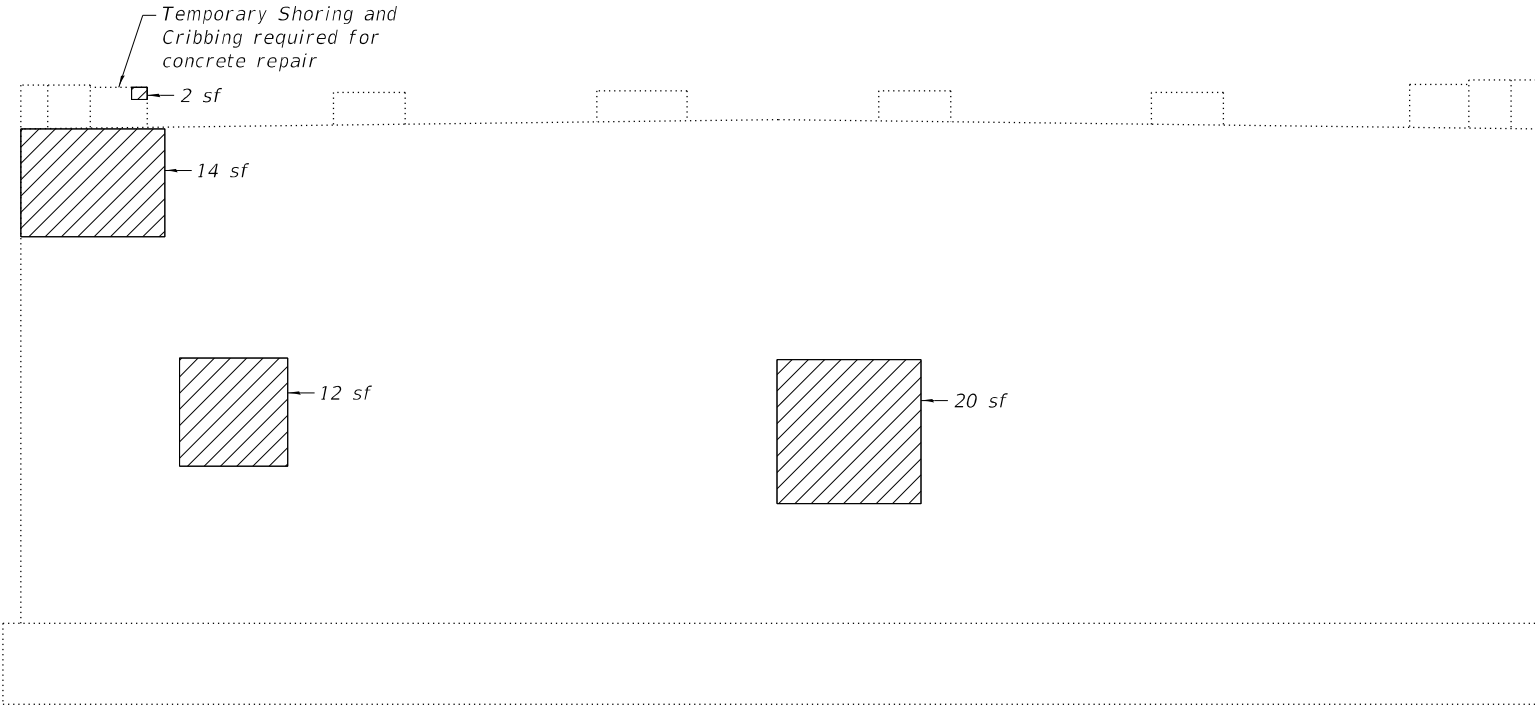
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	28
CONTRACT NO. 62T36				
		ILLINOIS	FED. AID PROJECT	



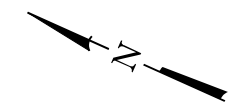
PLAN



ELEVATION
(Looking East)



ELEVATION
(Looking West)



REACTION TABLE AT TEMPORARY SHORING	
Dead Load (k)	103.0
Live Load (k)	33.3
Impact (k)	8.8
Total (k)	145.1
Min. Jack Capacity* (k)	150

* For Dead Load only

Note:
Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repairs, 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 Inches)
- Structural Repair of Concrete (Depth Greater than 5 Inches)
- Epoxy Crack Injection

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	133
Temporary Shoring and Cribbing	Each	1

MODEL: Default
FILE NAME: \\SERVER18\Projects\542105622 IDOT D1 PTB 199-015 WO 22 Tower Road\IDGN\Bridges\0160815-62T36-014-Pier 2 Repairs.dgn



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PLOT SCALE =	CHECKED - CDL	REVISED -
PLOT DATE = 8/17/2023	DRAWN - ACB	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 2 REPAIRS
STRUCTURE NO. 016-0815**

SHEET 14 OF 15 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	29
CONTRACT NO. 62T36				
		ILLINOIS	FED. AID PROJECT	



PLAN



ELEVATION
(Looking East)



ELEVATION
(Looking West)

REACTION TABLE AT TEMPORARY SHORING	
Dead Load (k)	101.0
Live Load (k)	32.1
Impact (k)	8.7
Total (k)	141.8
Min. Jack Capacity* (k)	150

* For Dead Load only

Note:
Quantities and limits shown are estimated for bidding purposes only. The actual areas to be repairs, 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 Inches)
- Structural Repair of Concrete (Depth Greater than 5 Inches)
- Epoxy Crack Injection

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	53
Temporary Shoring and Cribbing	Each	2
Relocating Name Plates	Each	1

MODEL: Default
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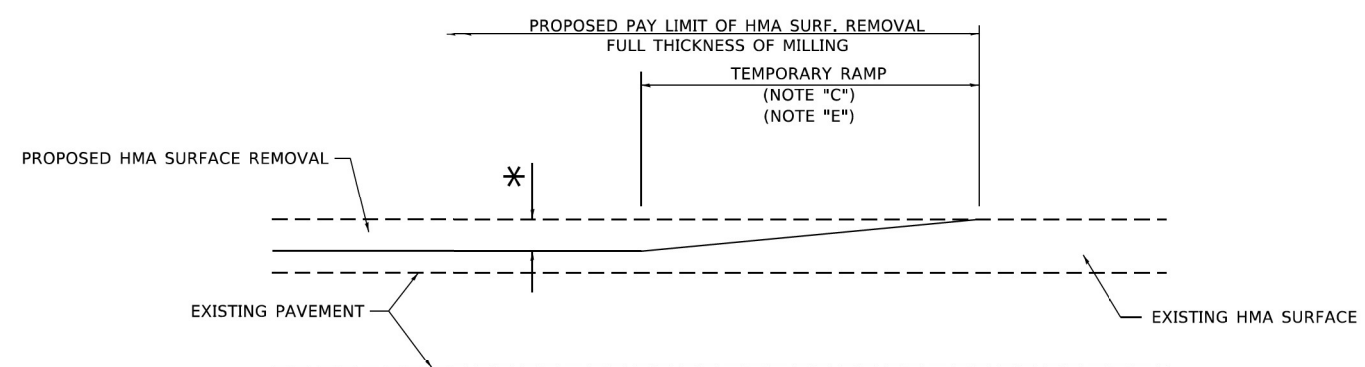
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 3 REPAIRS
STRUCTURE NO. 016-0815**

SHEET 15 OF 15 SHEETS

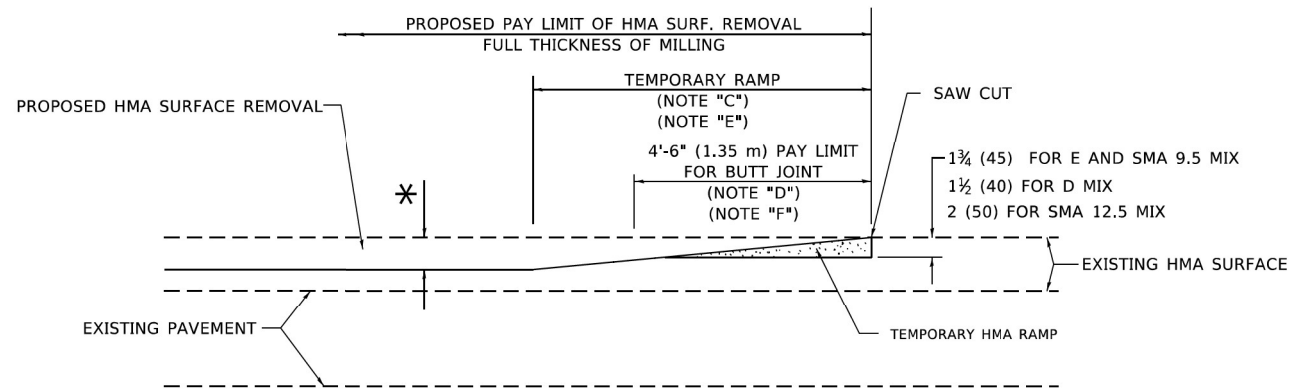
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	30
CONTRACT NO. 62T36				

ILLINOIS FED. AID PROJECT



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

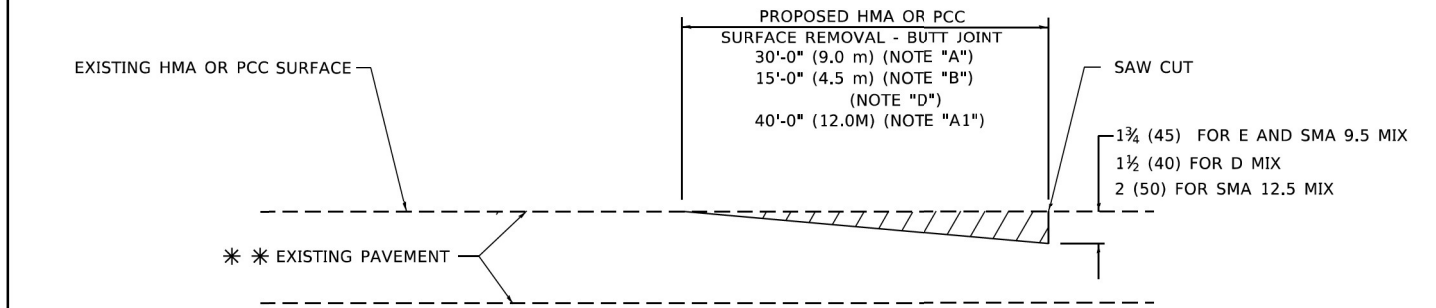
OPTION 1



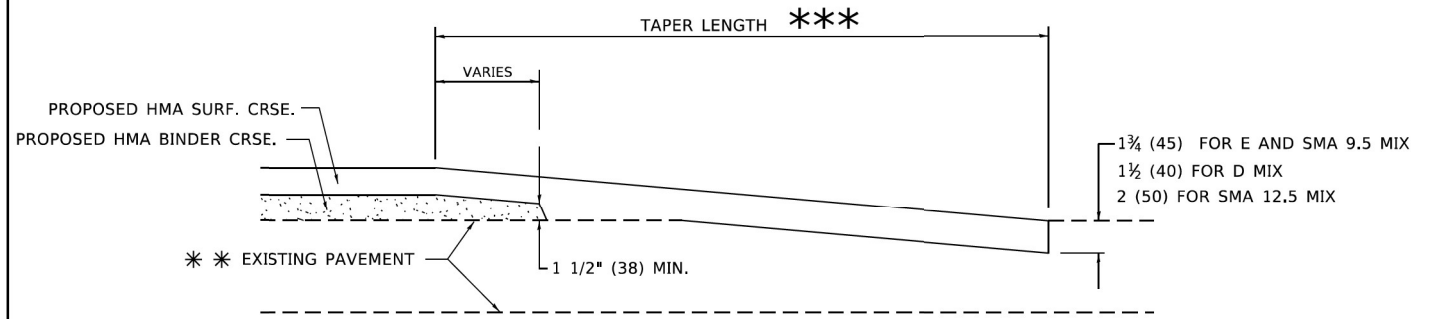
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

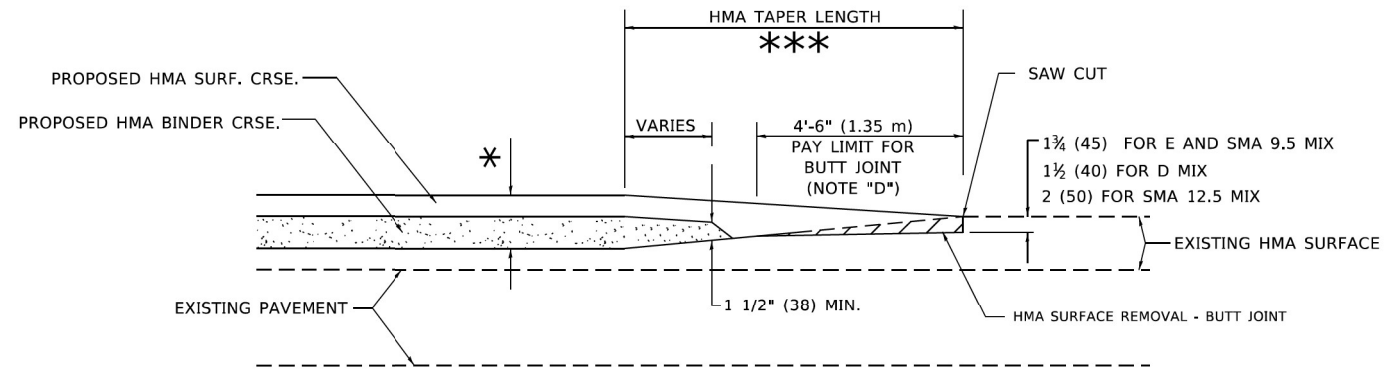
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

MODEL: Default
FILE: \\miller\pwworld\pww_bentley.com\PI\DOT\Documents\DOT_Offices\District_1\Projects\Dist1\027232\CA\0Data\CA\shhets\0232.dgn

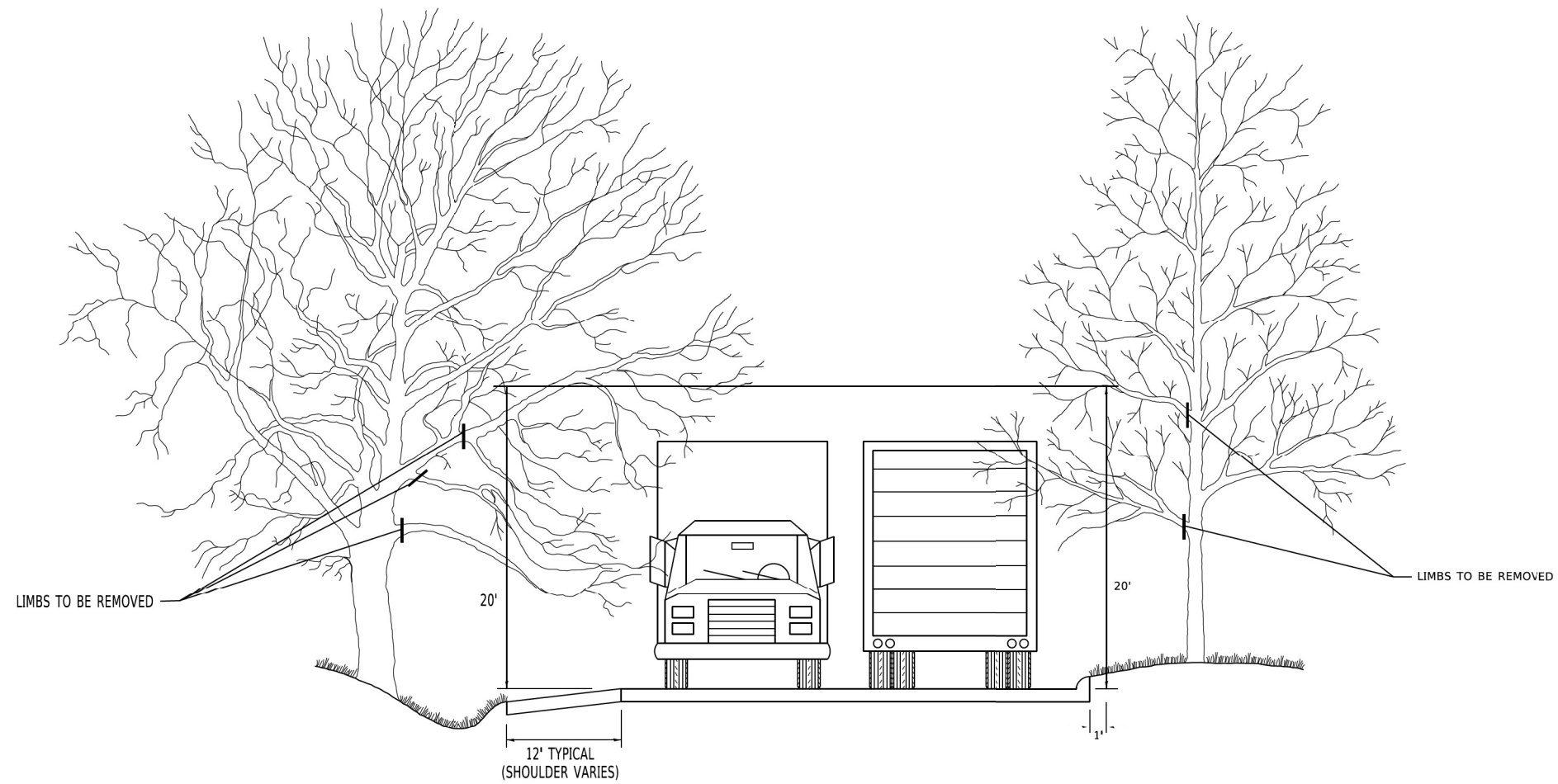
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	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	31
BD400-05 BD-32		CONTRACT NO. 62T36		
ILLINOIS FED. AID PROJECT				



MODEL: Default
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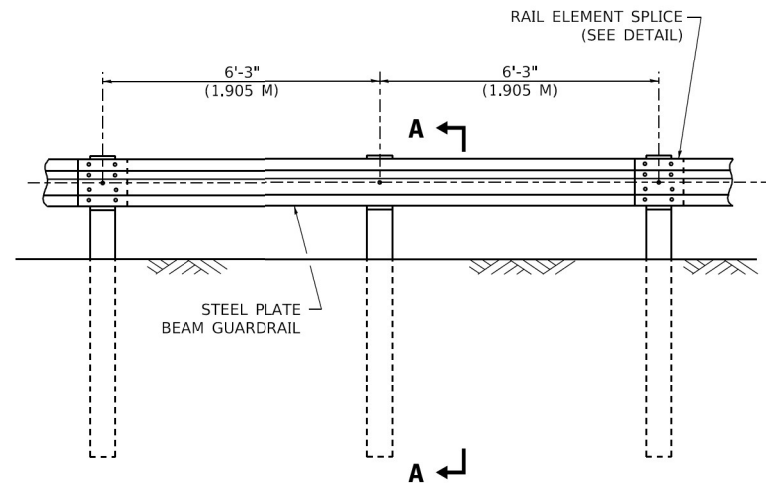
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PLOT DATE = 3/11/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PRUNING FOR SAFETY AND
 EQUIPMENT CLEARANCE**

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

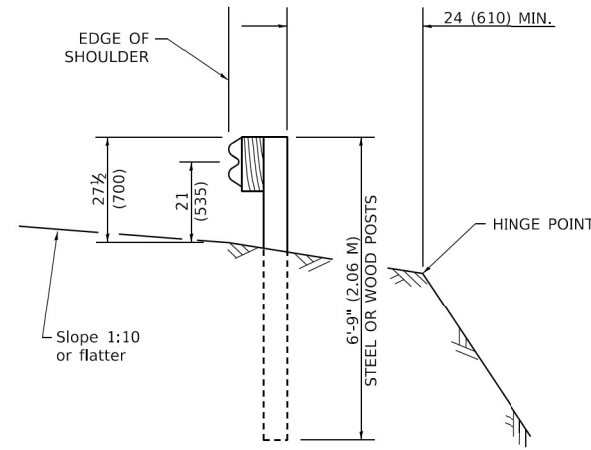
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	32
BM-20			CONTRACT NO. 62T36	
ILLINOIS FED. AID PROJECT				



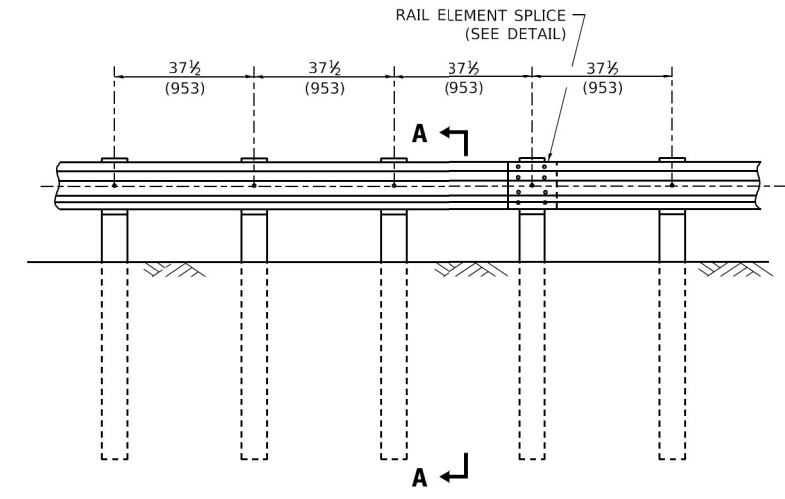
ELEVATION

TYPE A

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



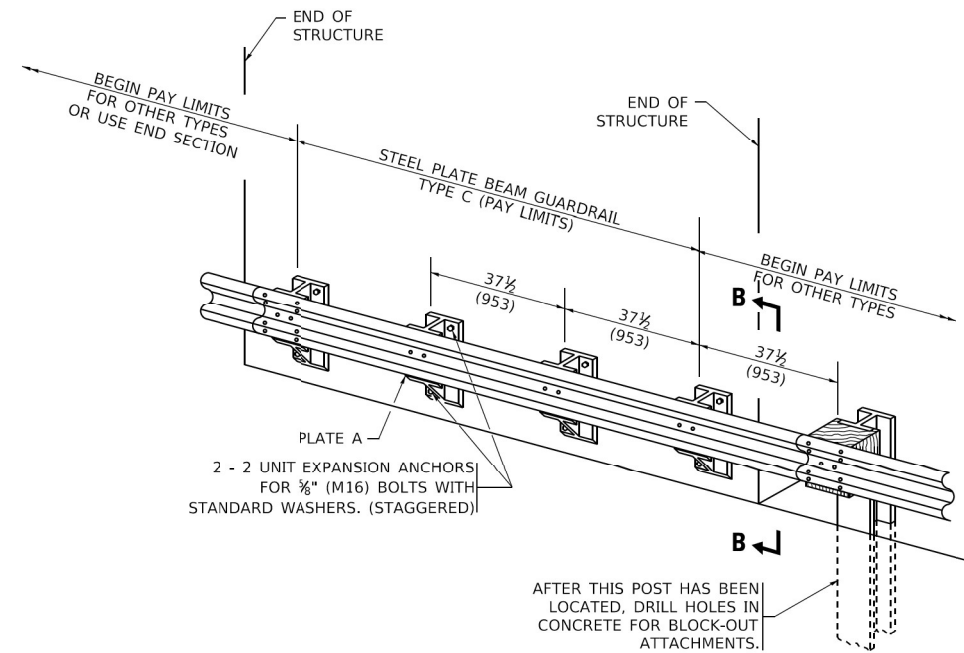
SECTION A-A



ELEVATION

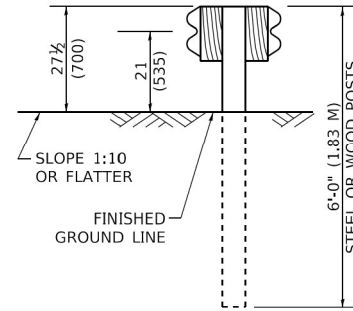
TYPE A

37 1/2 (953) CLOSED POST SPACING

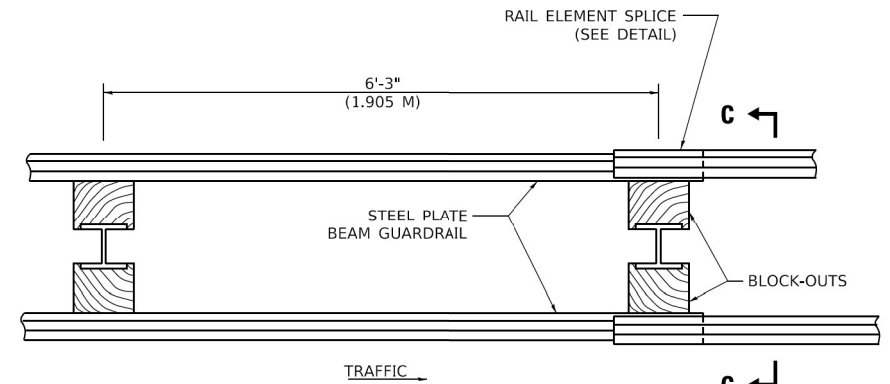


TYPE C

37 1/2 (953) BLOCK-OUT SPACING



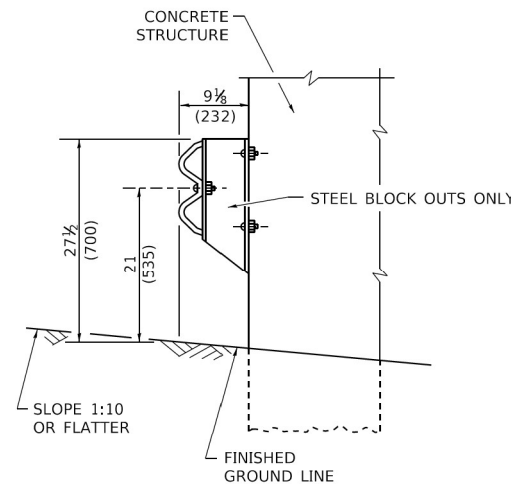
SECTION C-C



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.

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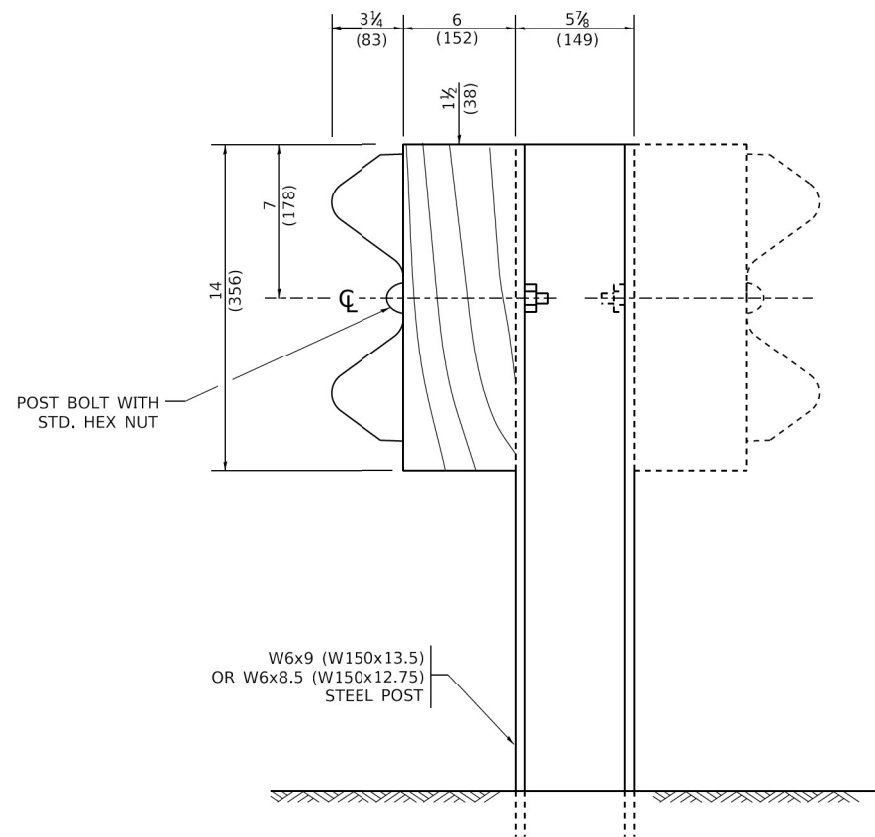
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

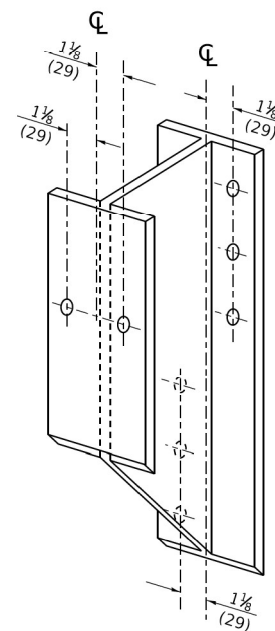
**REMOVE AND REERECT
STEEL PLATE BEAM GUARDRAIL**

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

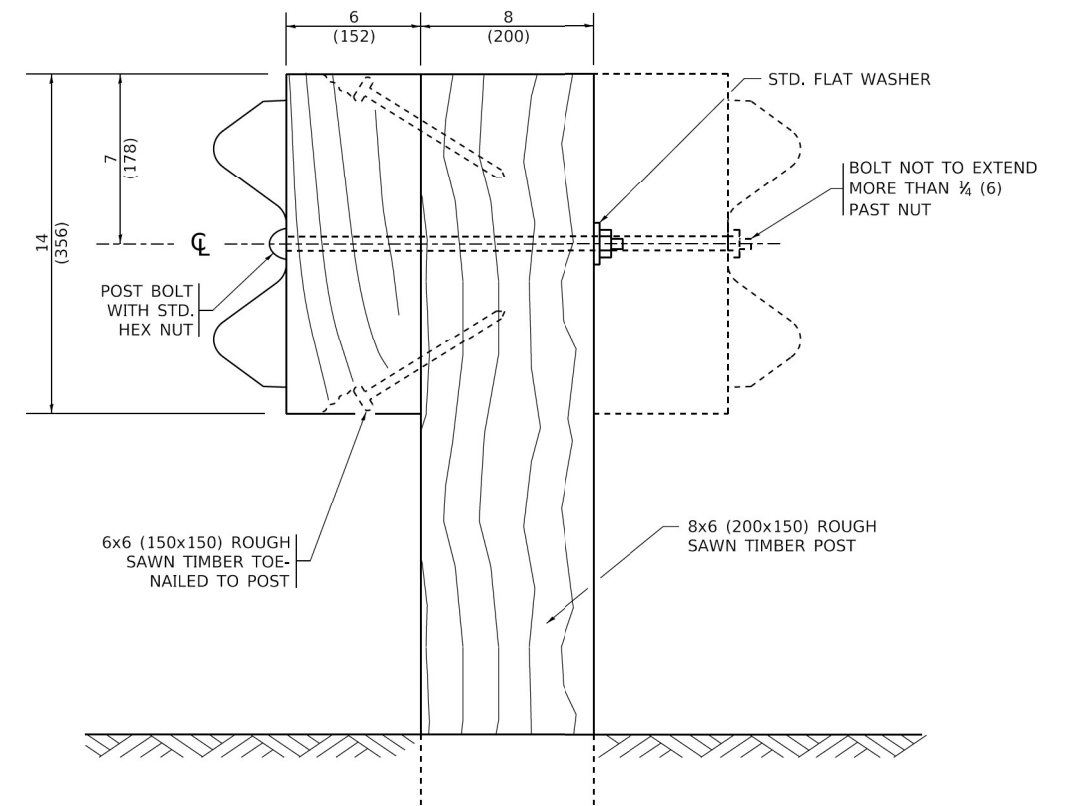
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	33
BM-21		CONTRACT NO. 62T36		
ILLINOIS		FED. AID PROJECT		



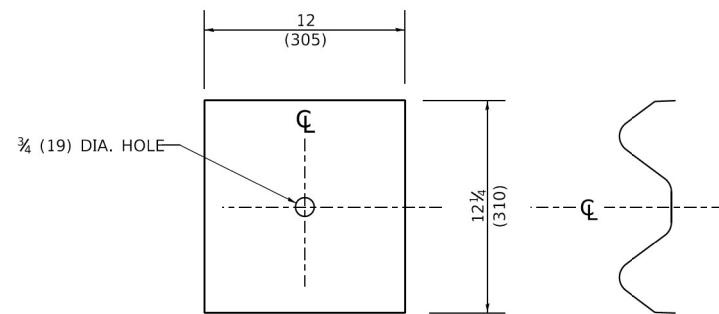
STEEL POST CONSTRUCTION



STEEL BLOCK-OUT DETAIL

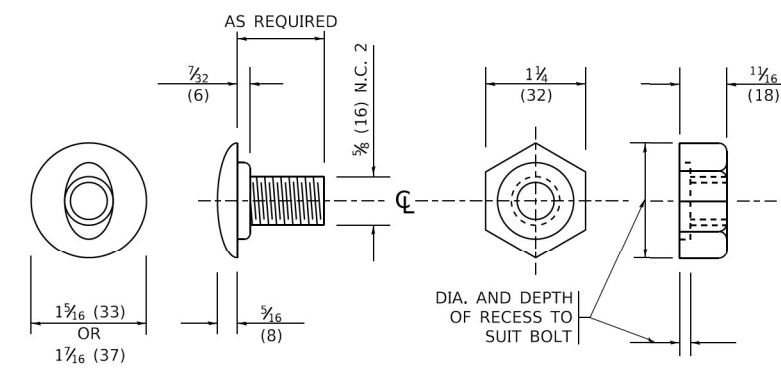


WOOD POST CONSTRUCTION



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

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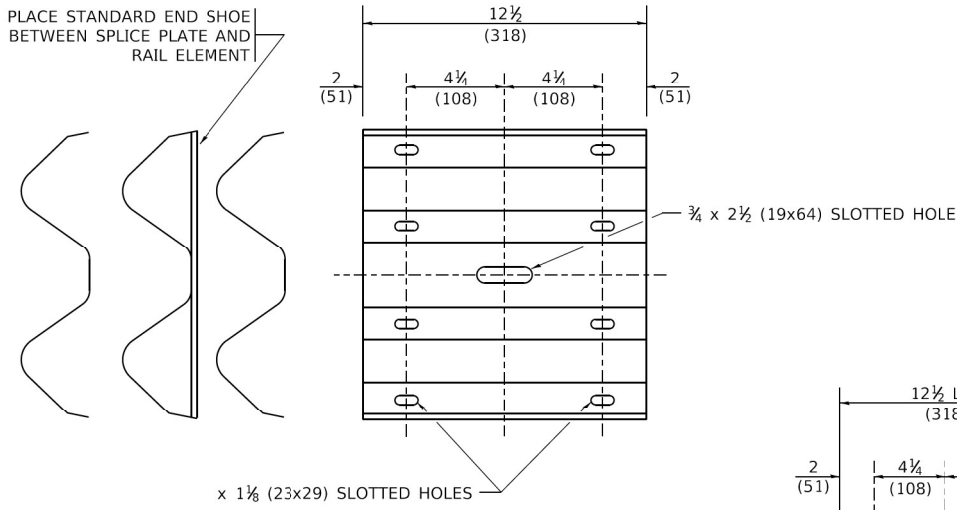
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVE AND REERECT
 STEEL PLATE BEAM GUARDRAIL**

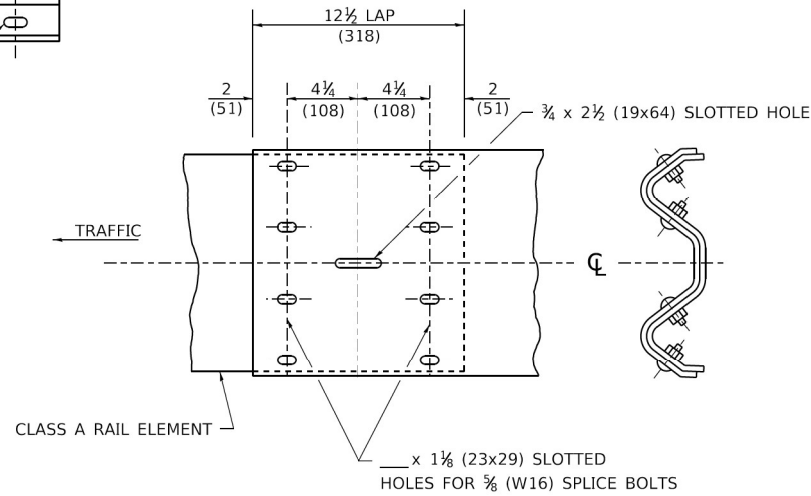
SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	34
BM-21			CONTRACT NO. 62T36	
ILLINOIS FED. AID PROJECT				

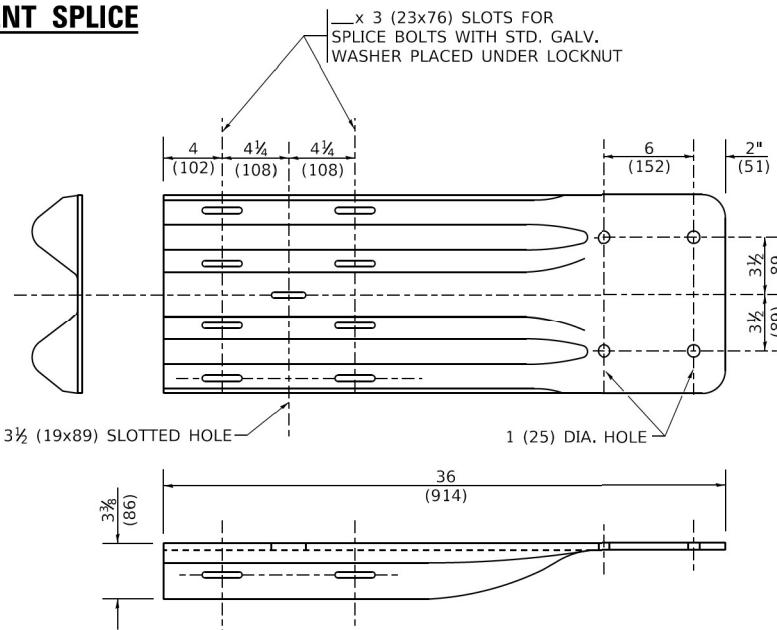
PLACE STANDARD END SHOE BETWEEN SPLICE PLATE AND RAIL ELEMENT



SPLICE PLATE



RAIL ELEMENT SPLICE



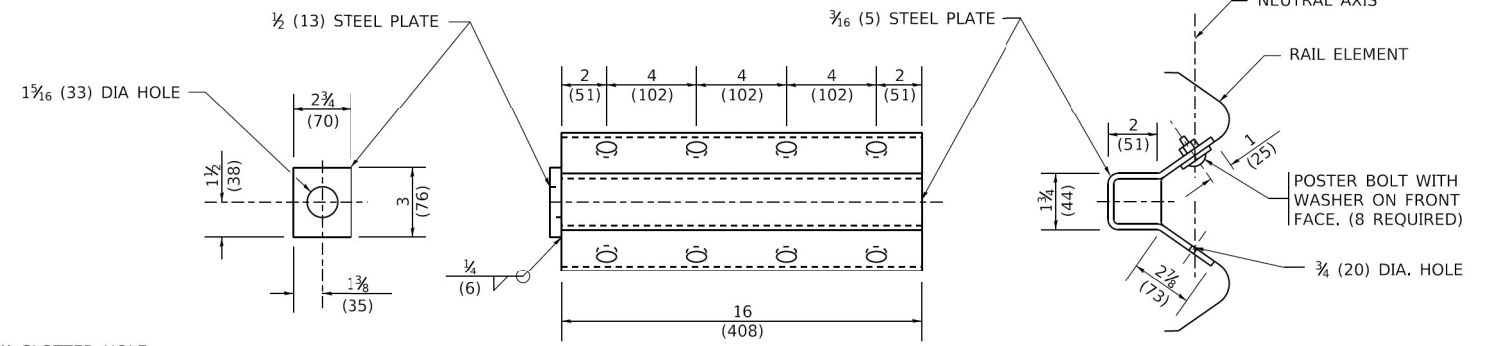
END SHOE

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.

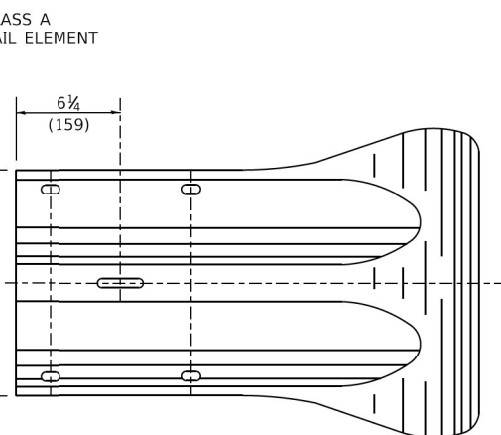
EXTERNALLY THREADED STUDS PROTRUDING FROM THE SURFACE OF THE CONCRETE WILL NOT BE PERMITTED.



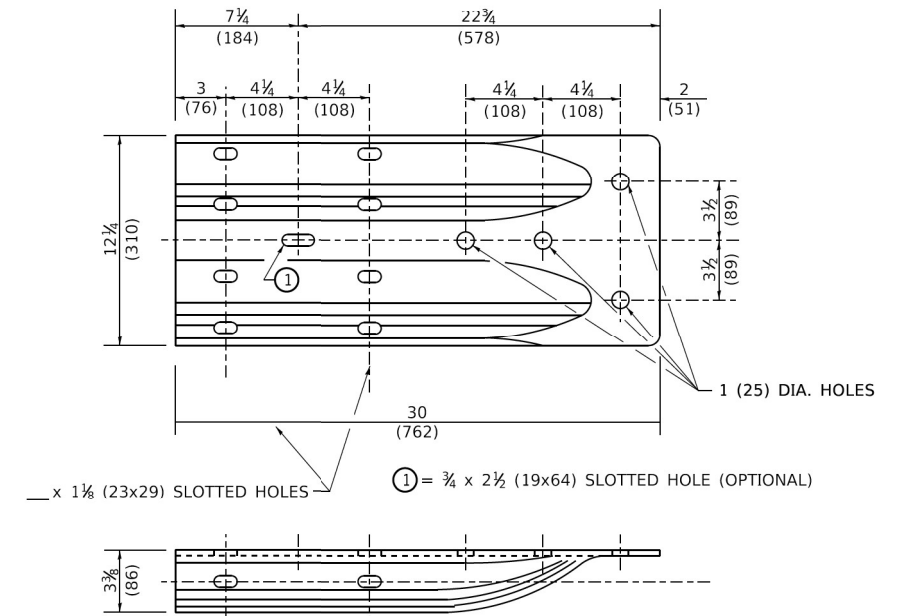
NOTE:

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

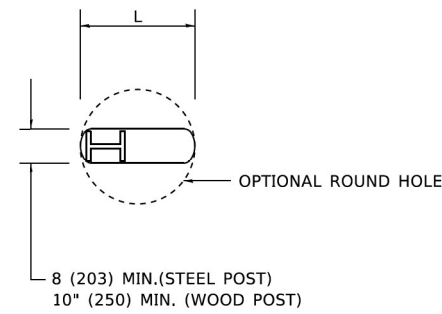
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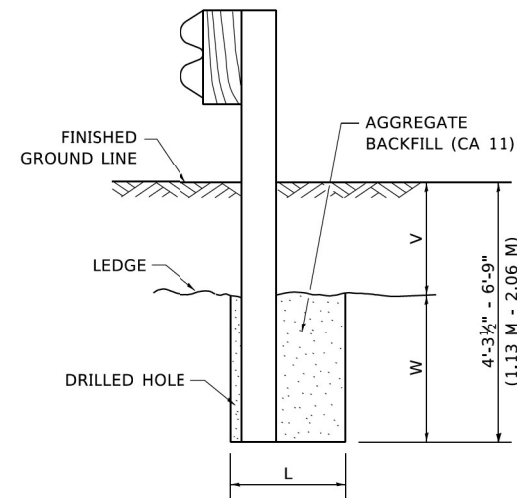
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL			
SCALE: NONE	SHEET 3	OF 4 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BM-21		CONTRACT NO. 62T36		
ILLINOIS FED. AID PROJECT				



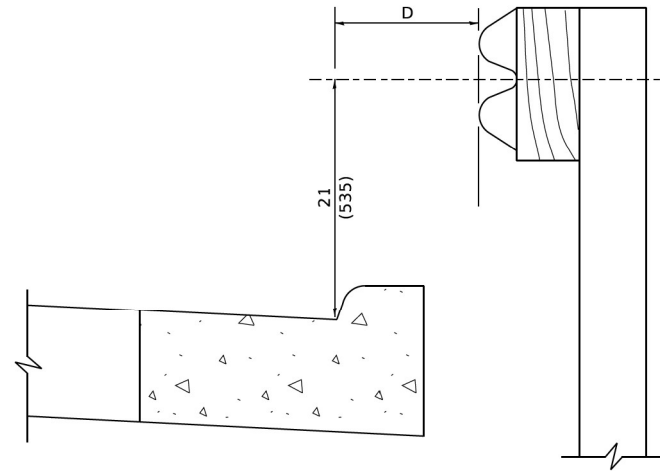
PLAN



NOTE:
LEDGE LINE IS TOP OF ROCK LEDGE OR HARD SLAG FILL.

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



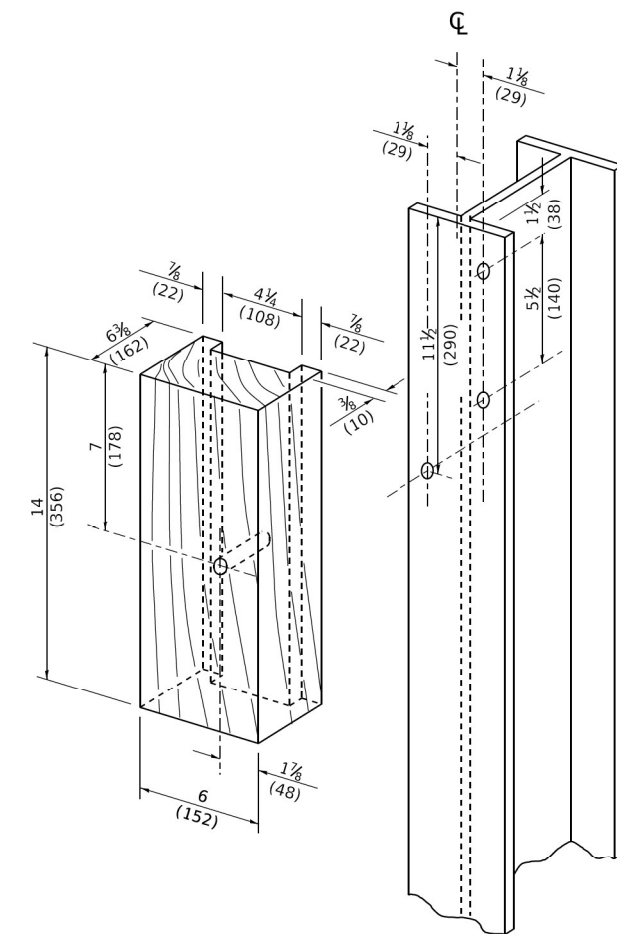
NOTE:

IF IT IS NECESSARY FOR D TO BE MORE THAN 12 (300) AND LESS THAN 10'-0" (3.0 M) TYPE M-2 (M-5) CURB AND GUTTER (STD. 606001) SHALL BE USED IN FRONT OF AND IN ADVANCE OF THE GUARDRAIL.

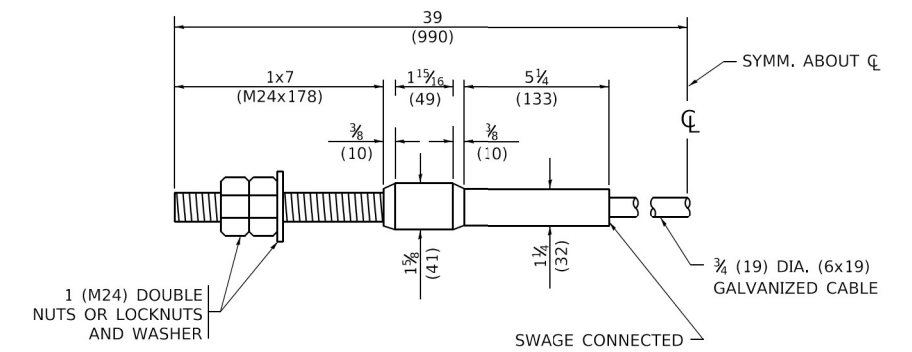
GUARDRAIL PLACED BEHIND CURB

(D = 0 DESIRABLE TO 12 (300) MAXIMUM)

V	W	L	
		STEEL POST	WOOD POST
0 - 18 (0 - 460)	24 (610)	21 (530)	23 (580)
>18 - 41.5 (> 460 - 825)	12 (305)	8 (203)	10 (250)
>41.5 - 53.5 (> 825 - 1.13 M)	12 - 0 (350 - 0)	8 (203)	10 (250)



WOOD BLOCK - OUT AND STEEL POST DETAILS



CABLE ASSEMBLY

(40,000 LBS (18,100 KG) MIN. BREAKING STRENGTH)
TIGHTEN TO TAUT TENSION

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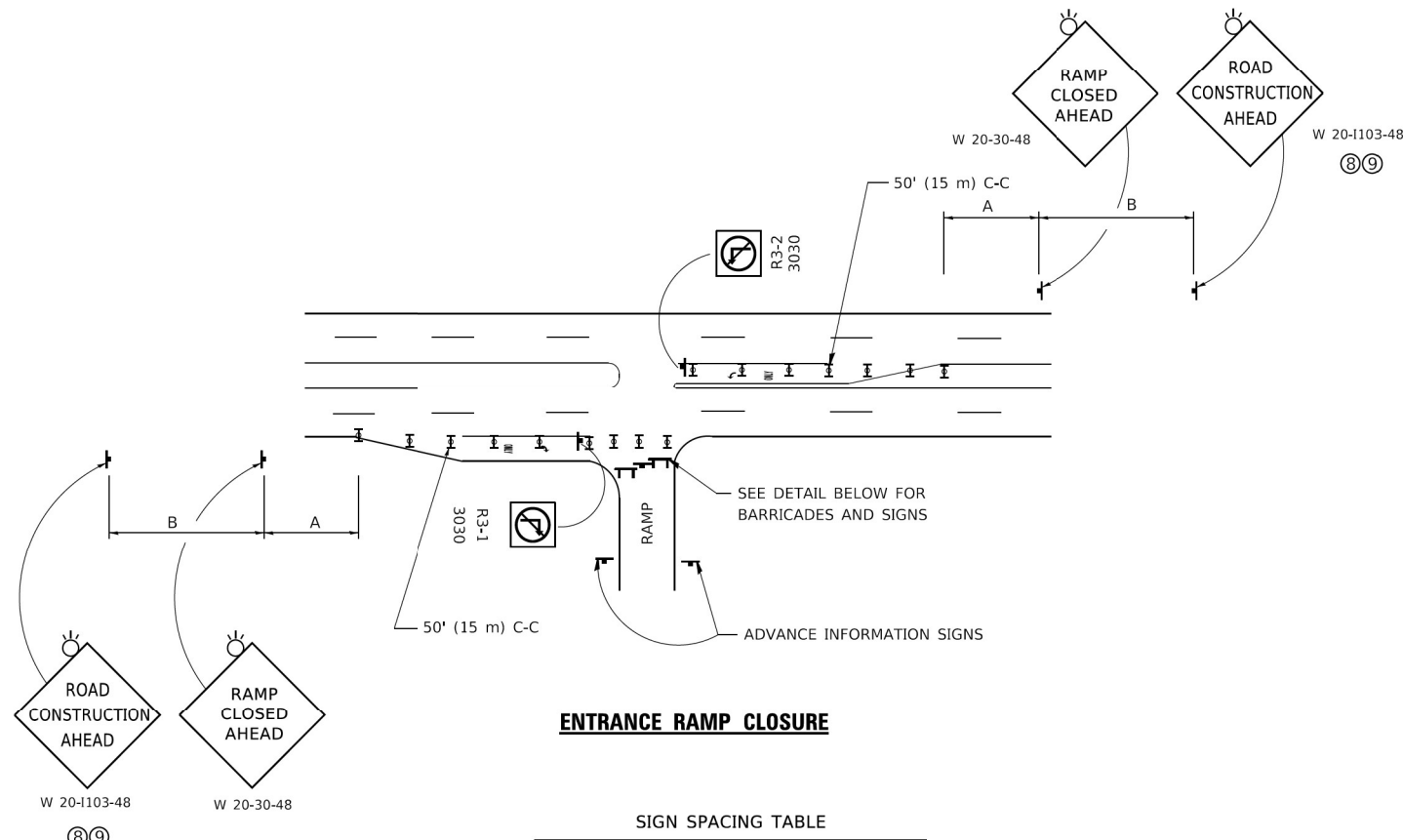
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVE AND REERECT
STEEL PLATE BEAM GUARDRAIL**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	36
BM-21		CONTRACT NO. 62T36		
ILLINOIS FED. AID PROJECT				

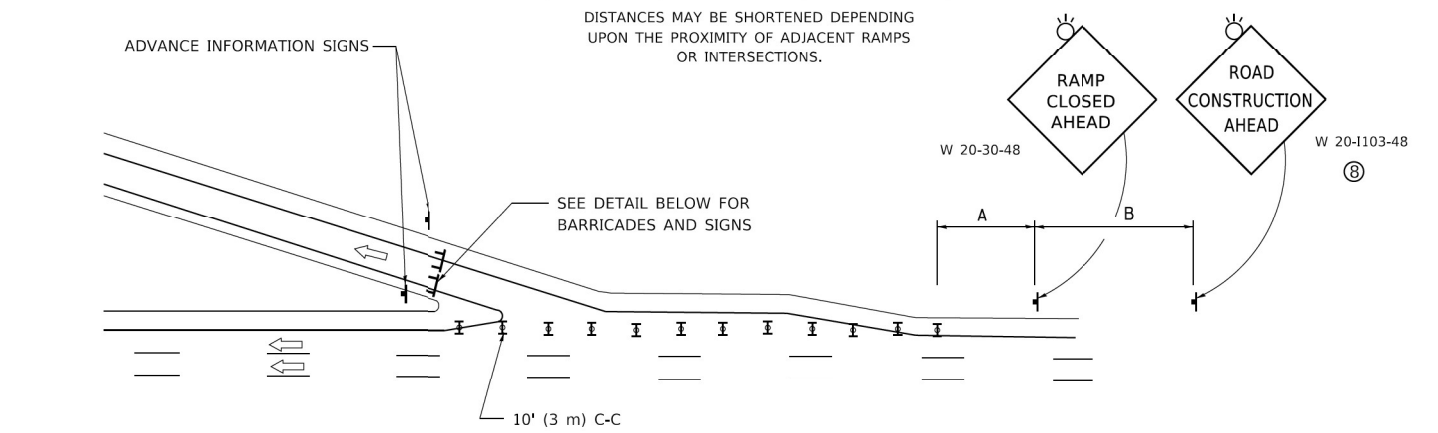


ENTRANCE RAMP CLOSURE

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)

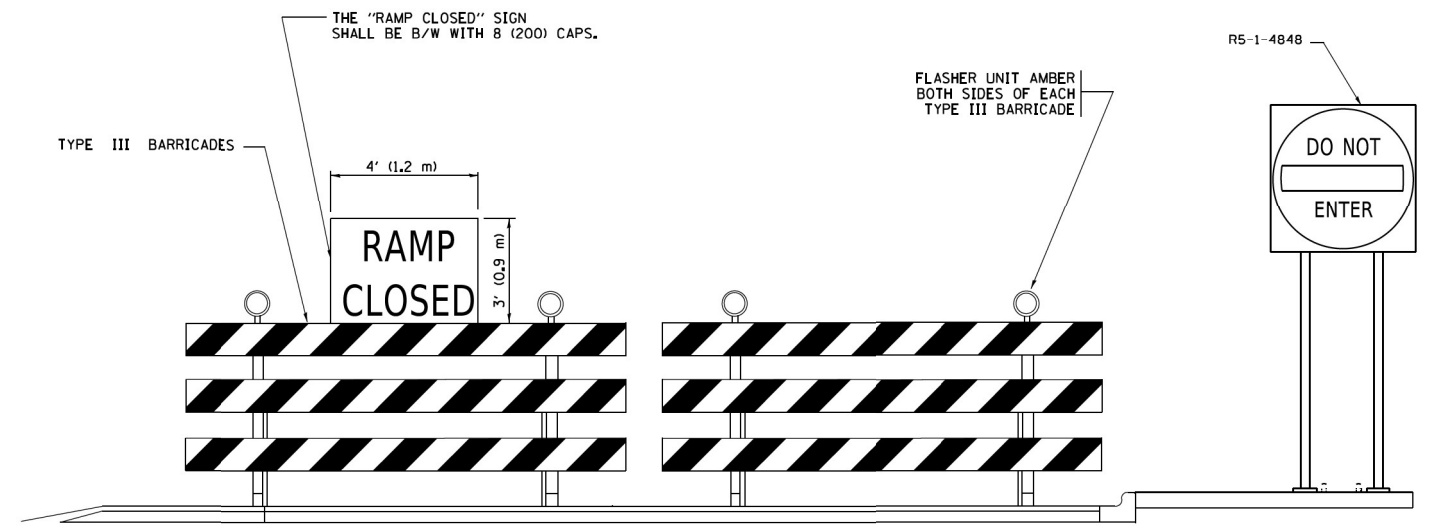
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

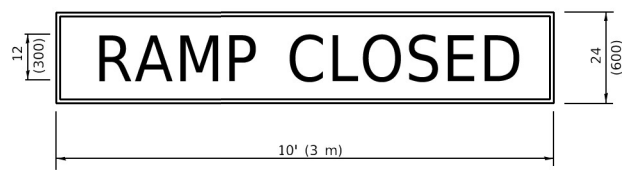
SYMBOLS

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



DETAIL FOR REQUIRED BARRICADES & SIGNS

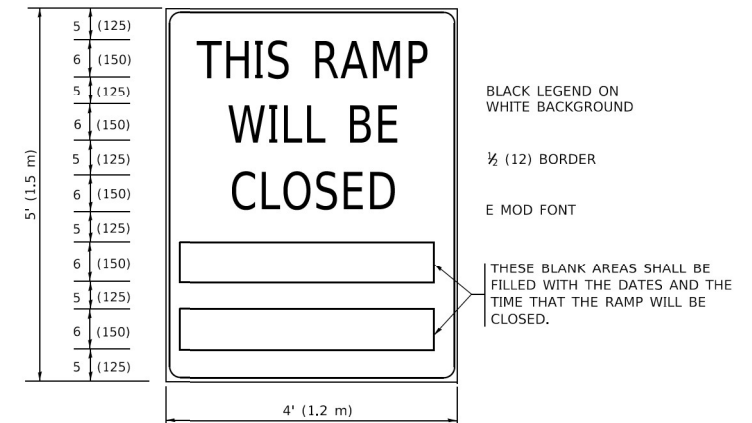
RAMP CLOSURE ADVANCE WARNING SIGN



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



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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.

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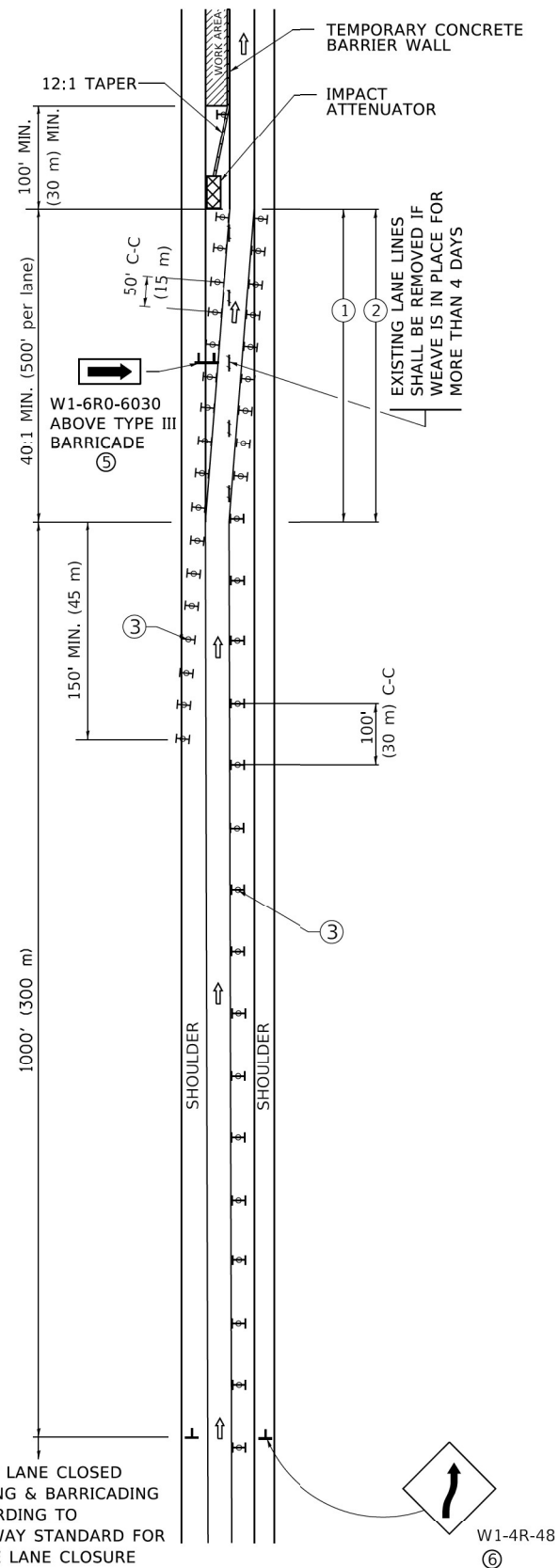
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

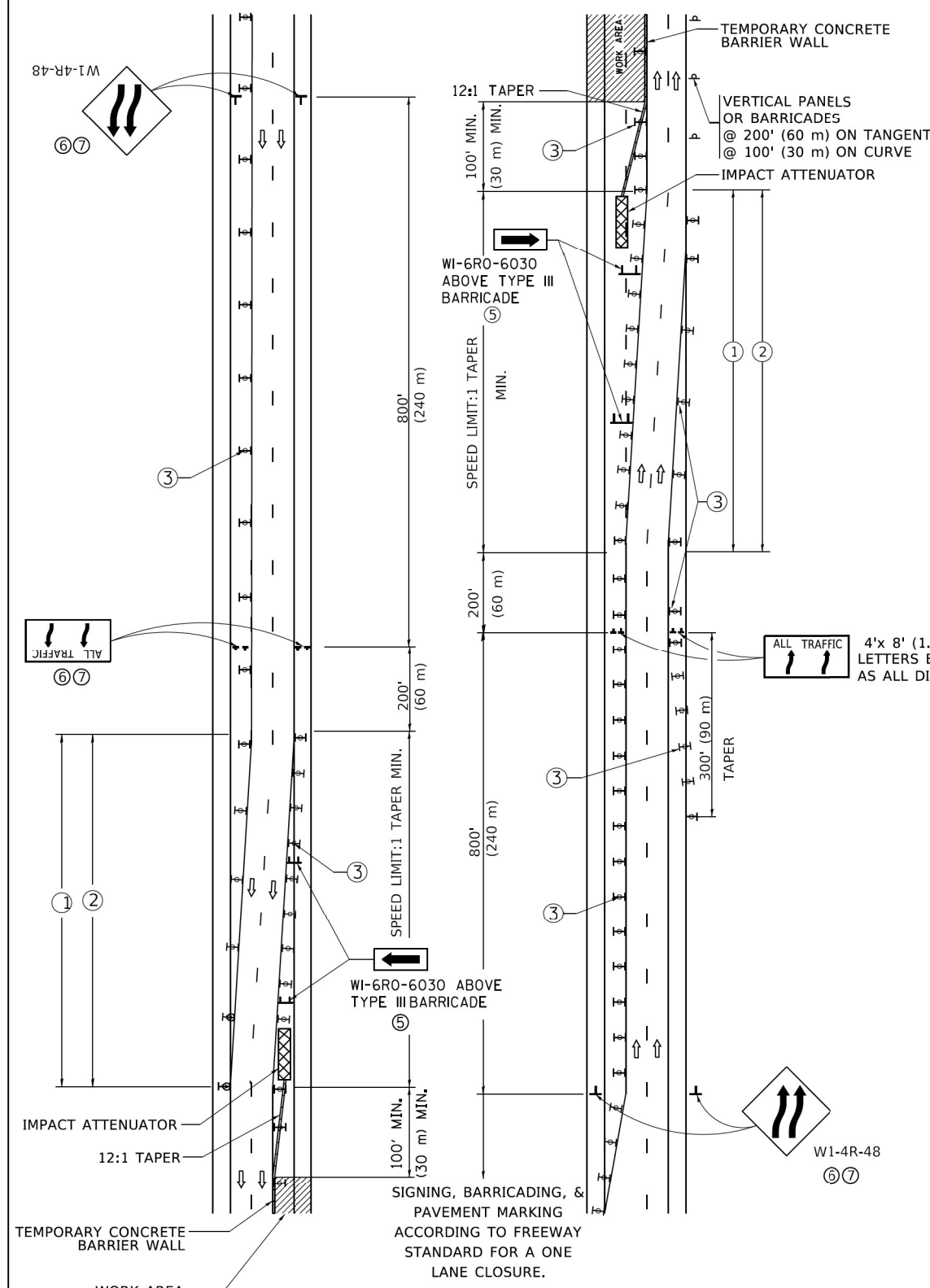
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	37
TC-08			CONTRACT NO. 62T36	
		ILLINOIS	FED. AID PROJECT	

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES:

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48 (6, 7)
- W24-1-48 (7)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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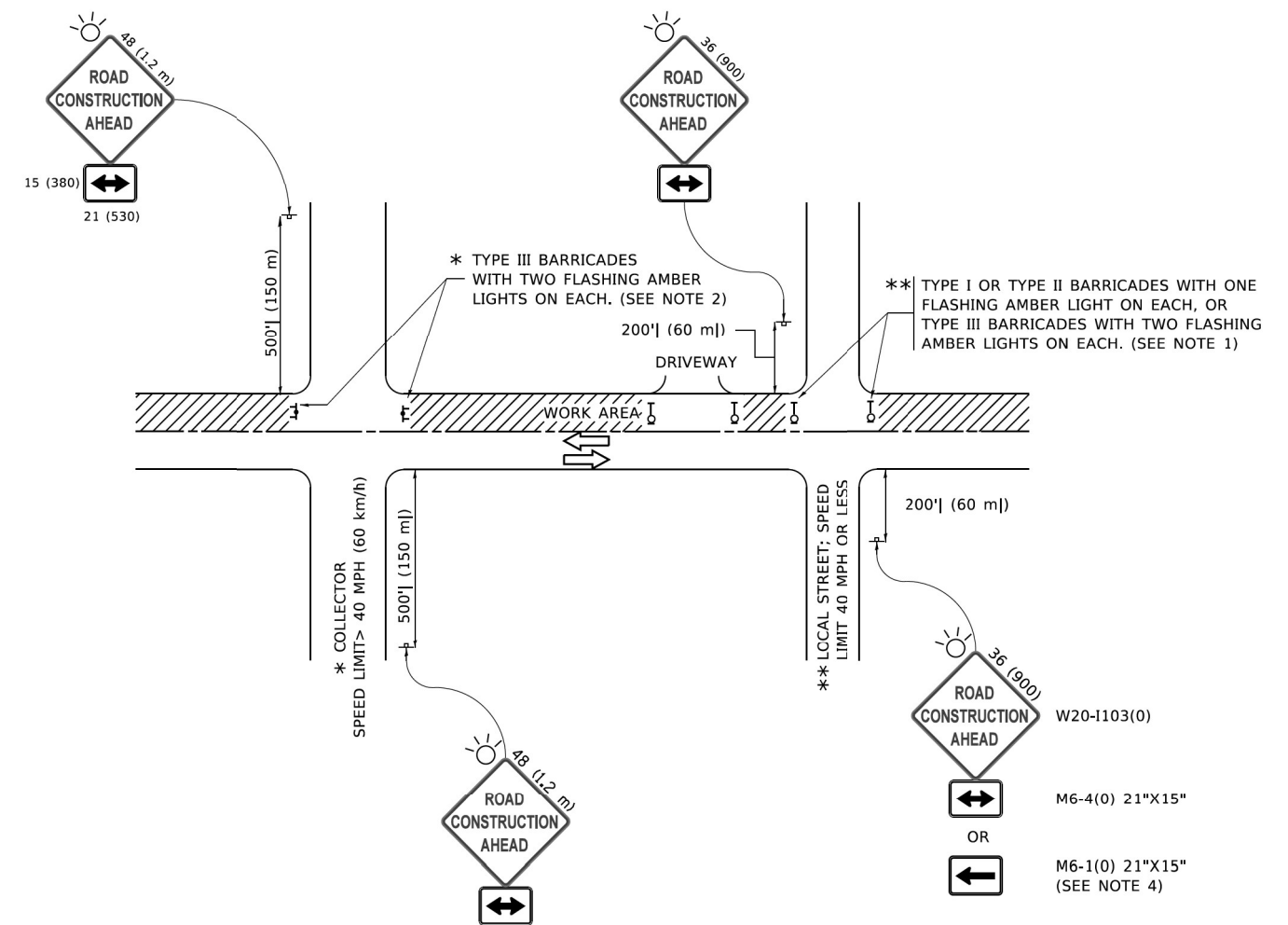
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PLOT DATE = 3/4/2019	DATE - 02-87	REVISED - M.D. 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	38
TC-09		CONTRACT NO. 62T36		
ILLINOIS FED. AID PROJECT				



NOTES:

- 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:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 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.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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.

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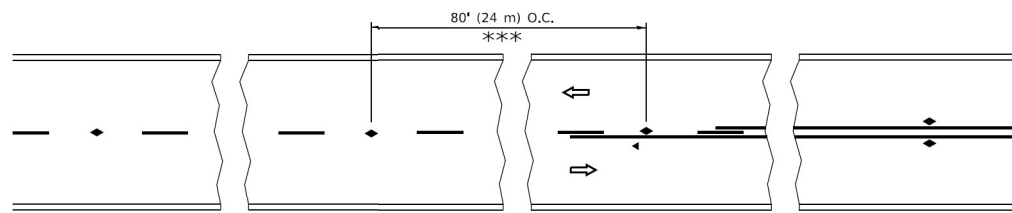
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PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

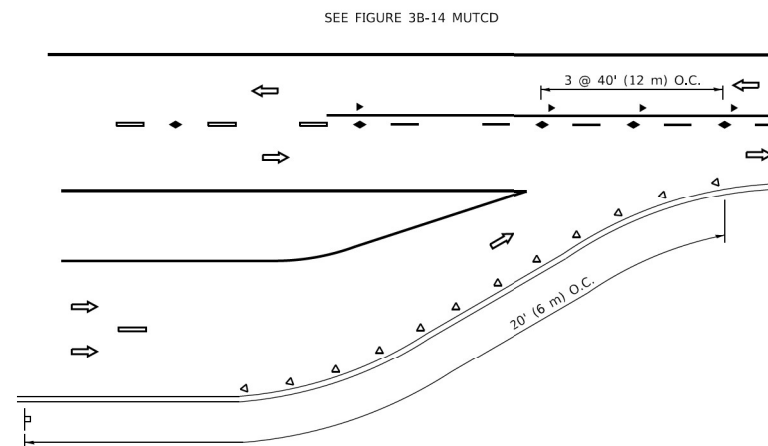
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62T36	
ILLINOIS FED. AID PROJECT				

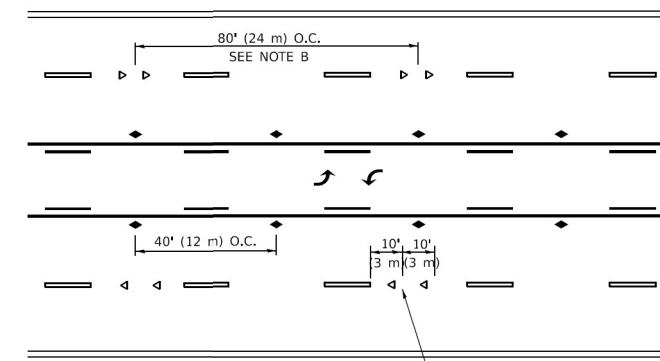


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

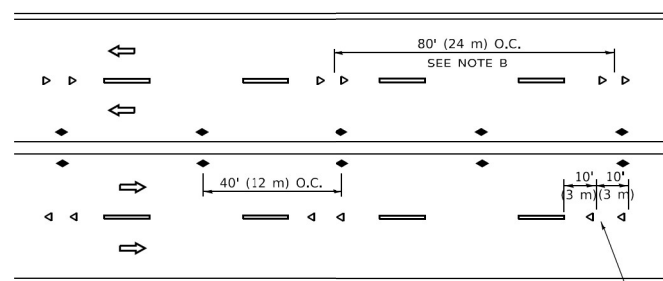
TWO-LANE/TWO-WAY



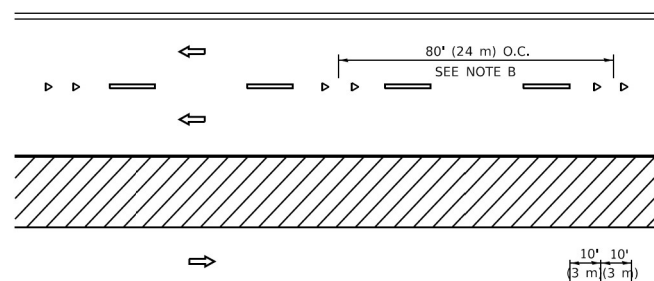
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

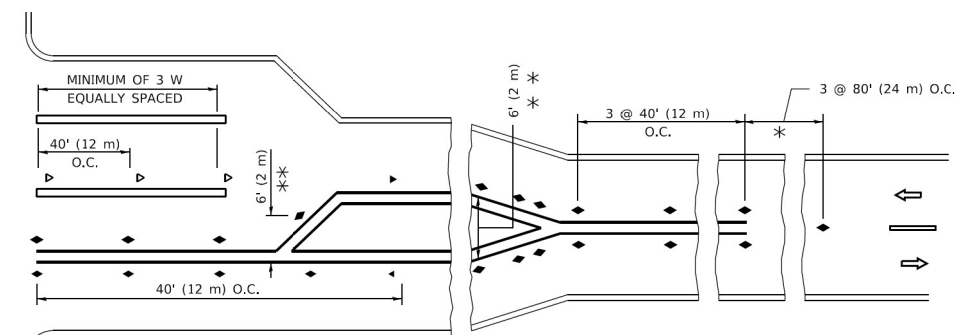
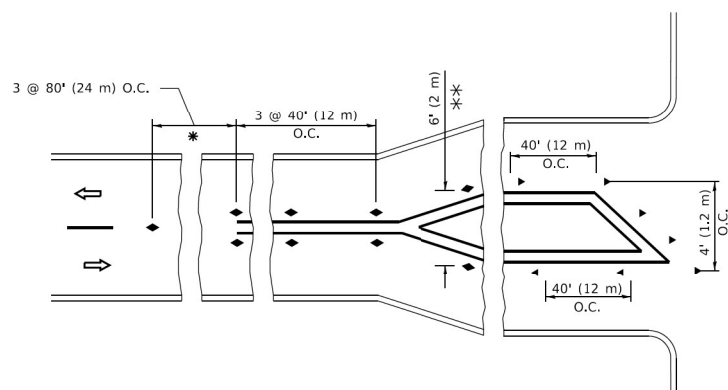
1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

TURN LANES

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

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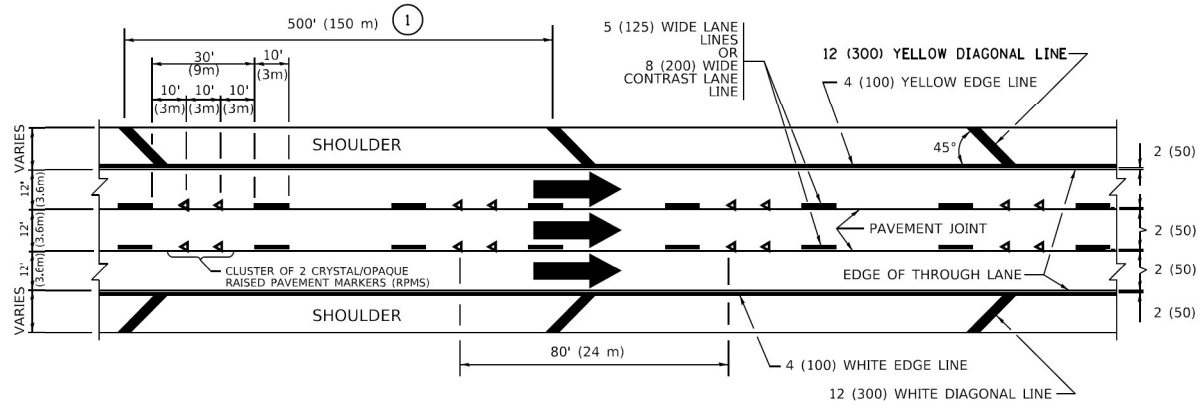
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

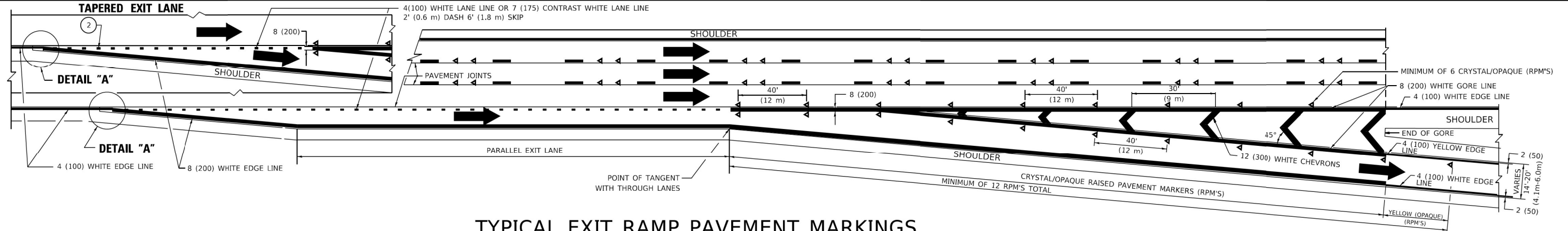
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	40
TC-11		CONTRACT NO. 62T36		
ILLINOIS FED. AID PROJECT				



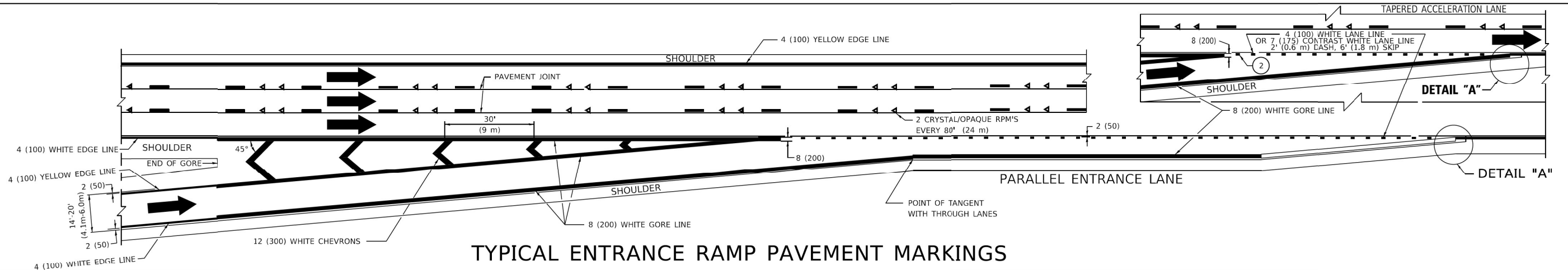
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

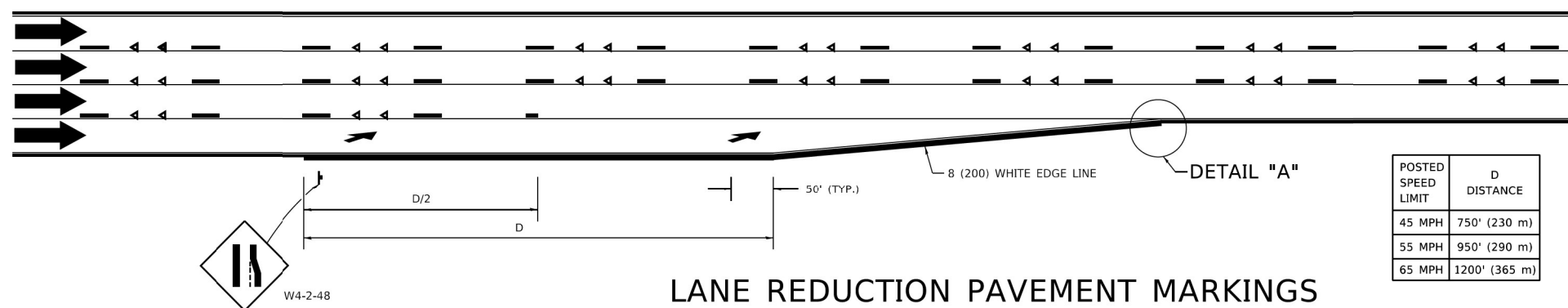
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE D, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

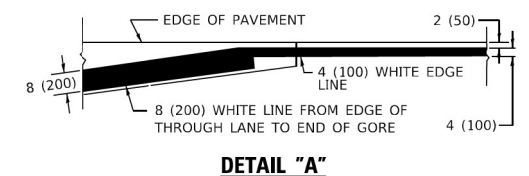


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



NOTES:

1. THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
2. 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

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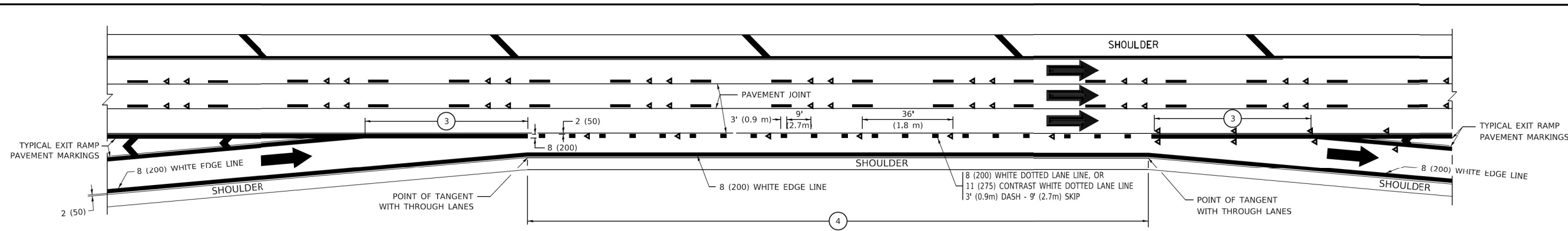
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PLOT DATE = 11/18/2022	DATE - 01-90	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

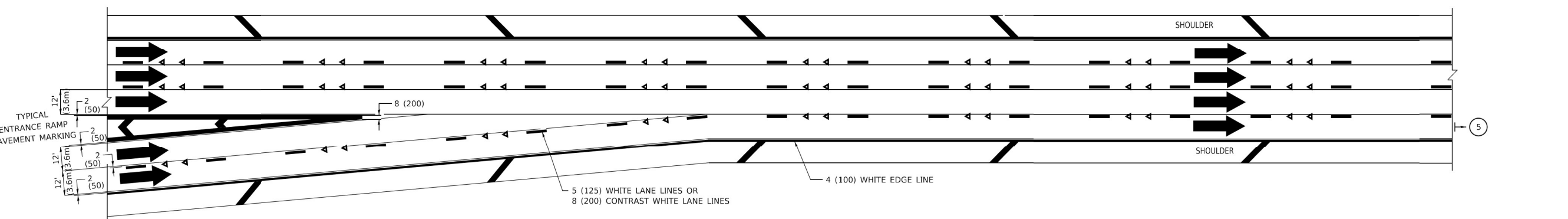
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

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

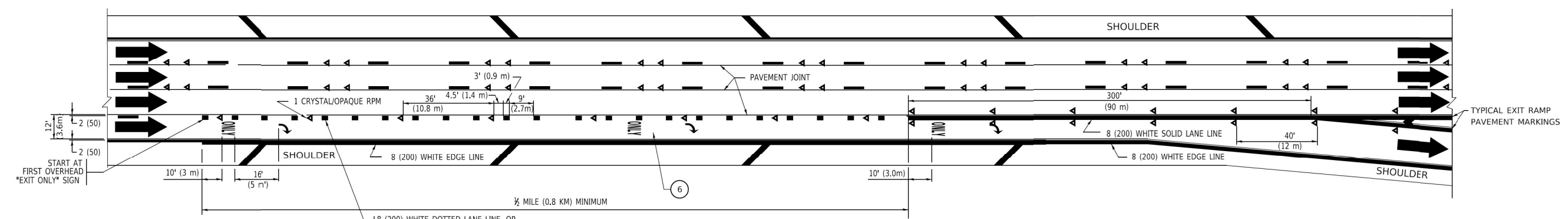
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	41
TC-12		CONTRACT NO. 62T36		
ILLINOIS FED. AID PROJECT				



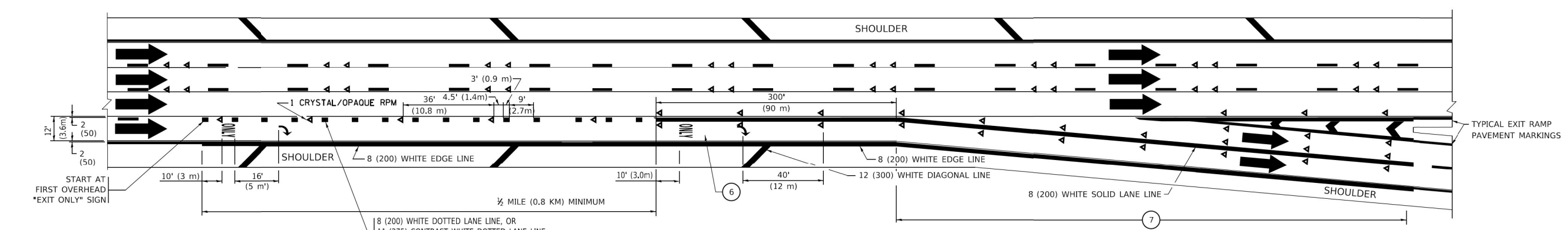
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- 3 OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - 4 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - 5 FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - 6 ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - 7 CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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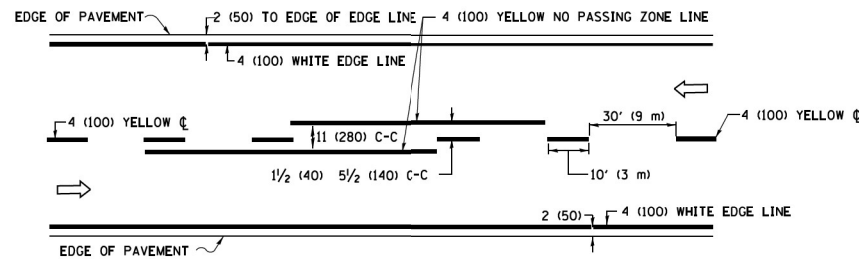
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

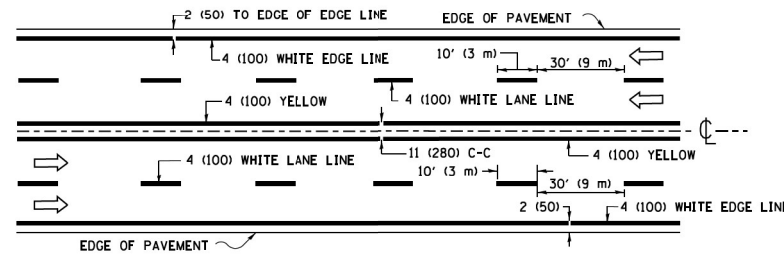
MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

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

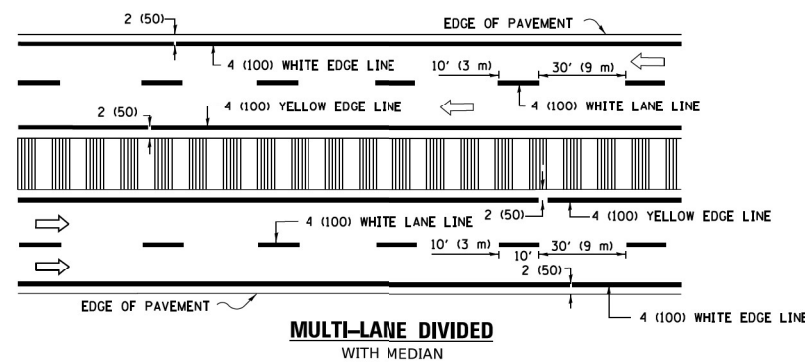
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TC-12		CONTRACT NO. 62T36		
ILLINOIS / FED. AID PROJECT				



2-LANE ROADWAY

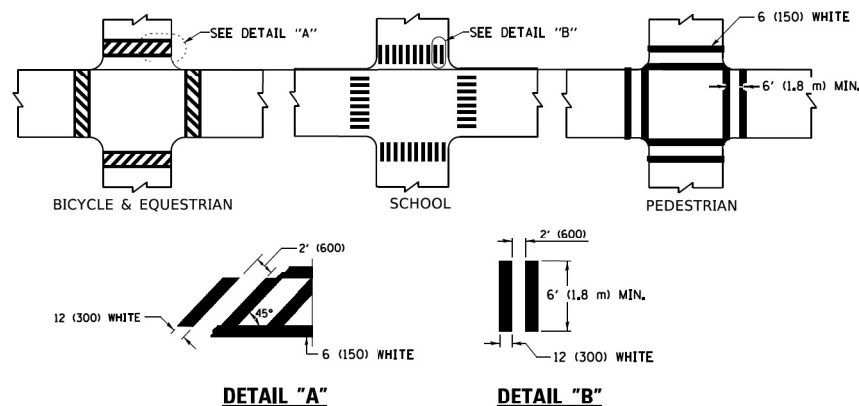


MULTI-LANE UNDIVIDED



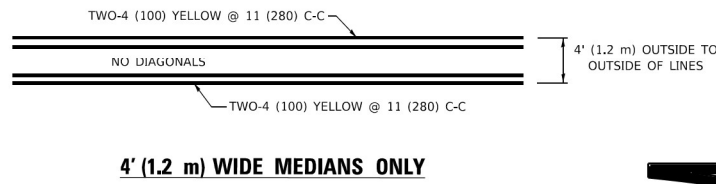
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

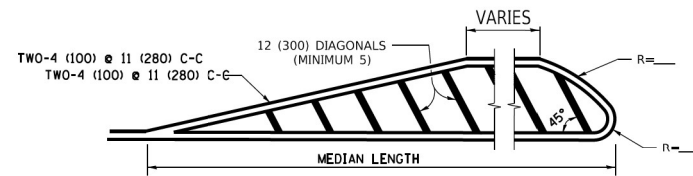


TYPICAL CROSSWALK MARKING

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

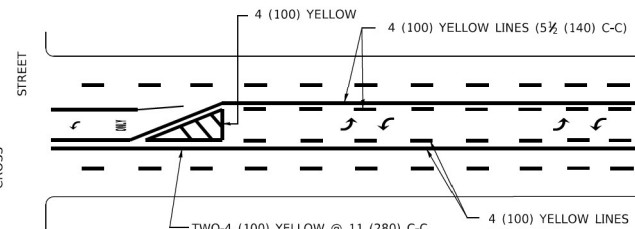


4' (1.2 m) WIDE MEDIANS ONLY



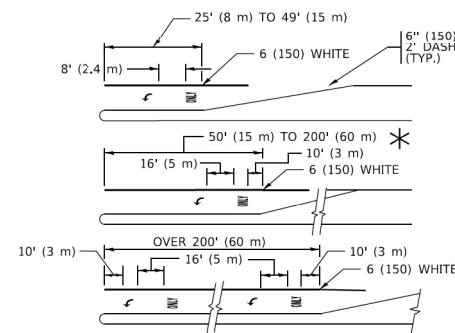
MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



MEDIAN WITH TWO-WAY LEFT TURN LANE

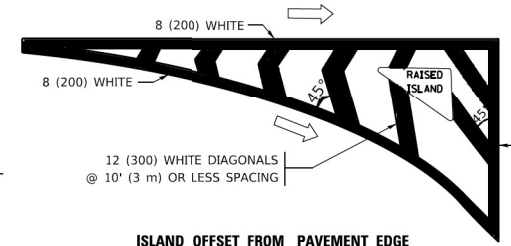
TYPICAL PAINTED MEDIAN MARKING



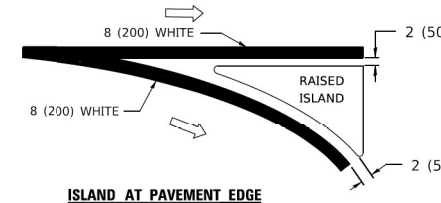
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* 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".

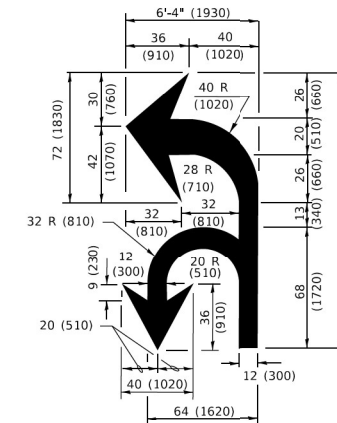


ISLAND OFFSET FROM PAVEMENT EDGE

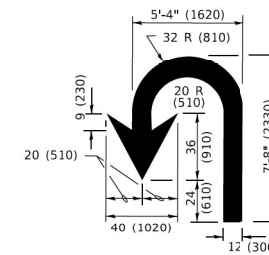


ISLAND AT PAVEMENT EDGE

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) 2' (600) APART 2' (600) APART	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) 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" 15' 6" (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 ²) EACH *X*=54.0 SQ. FT. (5.0 m ²)
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.

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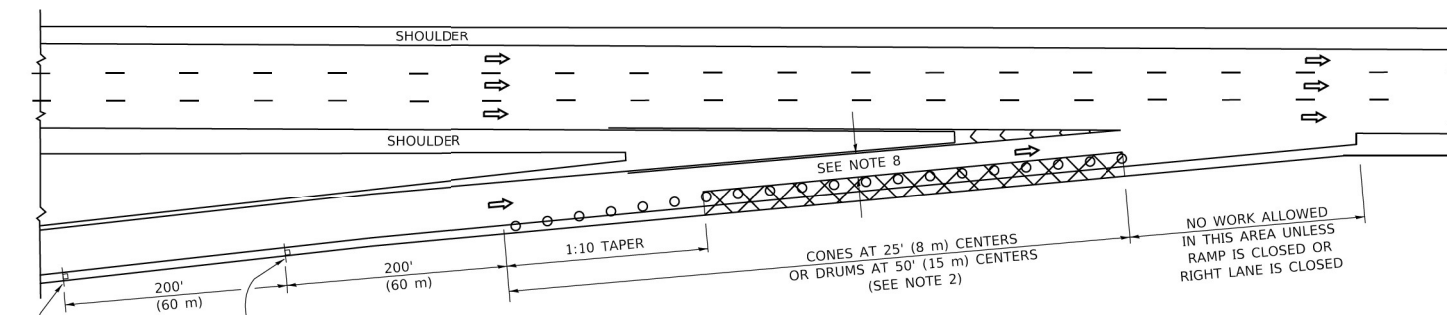
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

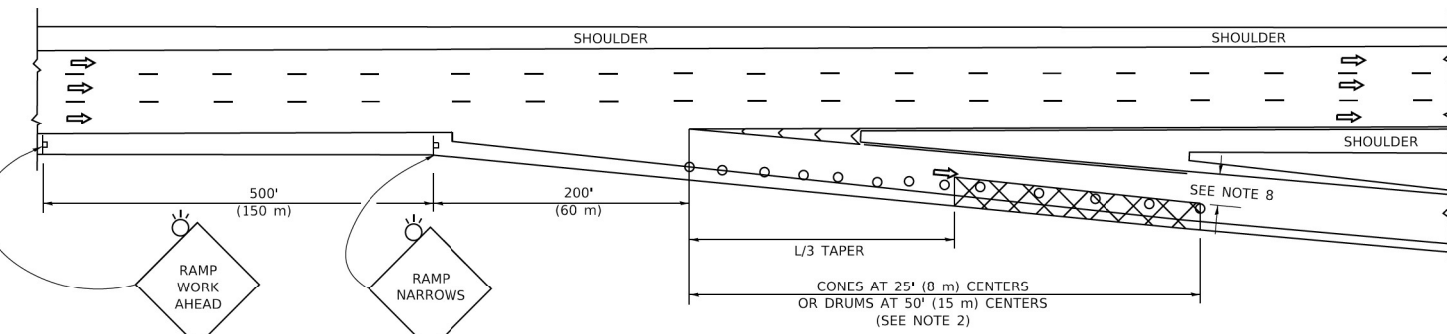
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	43
TC-13		CONTRACT NO. 62T36		
		ILLINOIS FED. AID PROJECT		

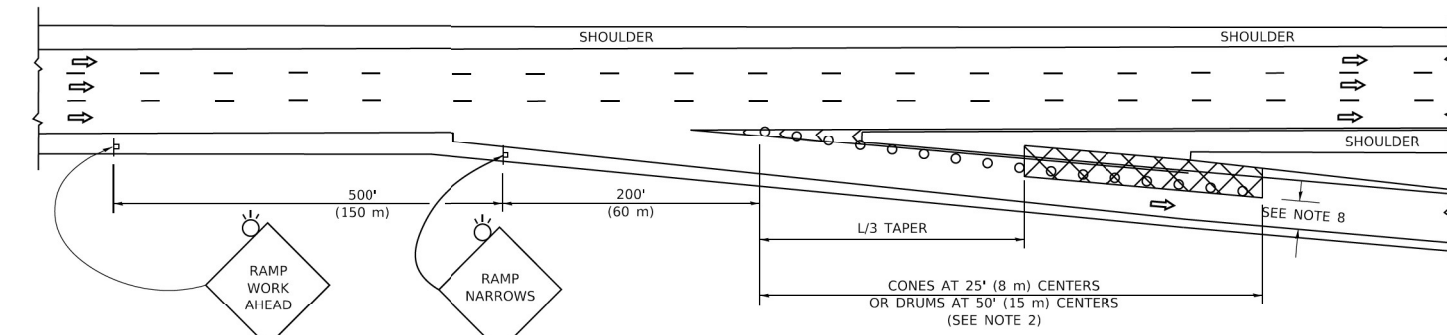
PARTIAL RAMP CLOSURE DETAILS



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

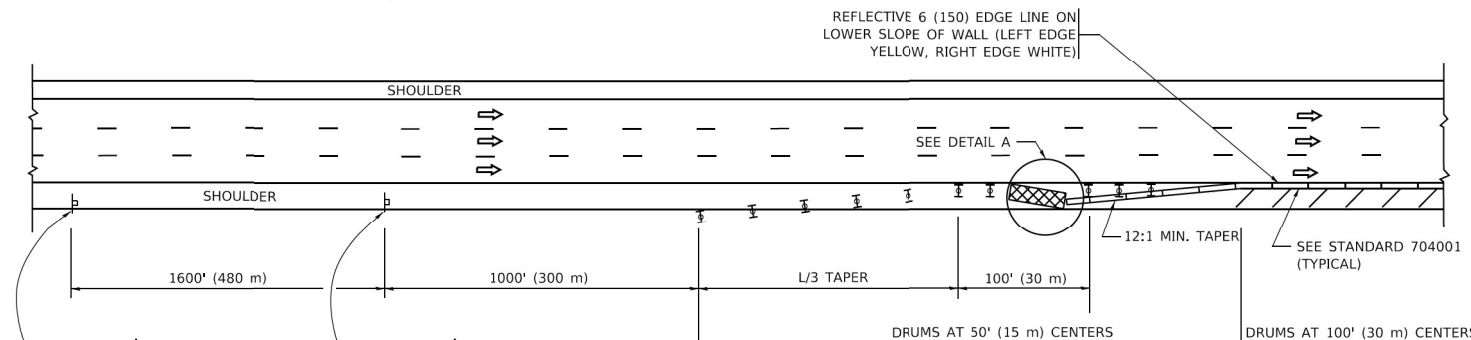
GENERAL NOTES:

1. THE "L" DISTANCE EQUALS:

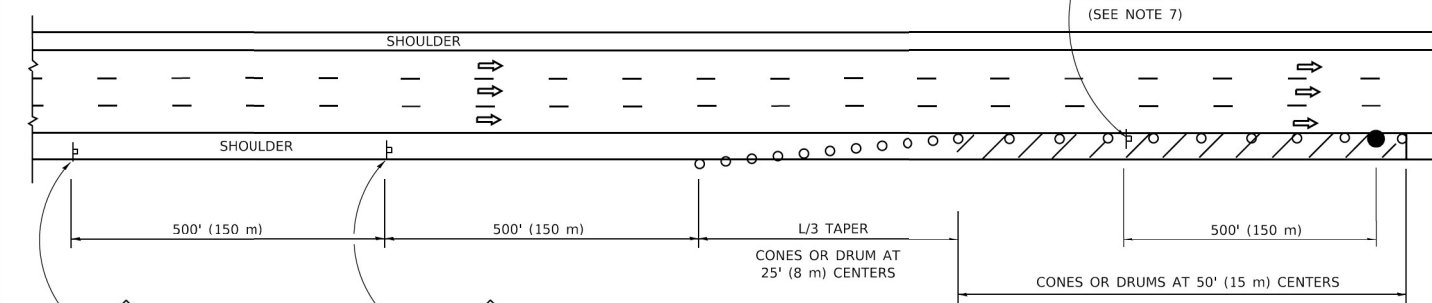
$L = \frac{S^2}{200}$	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC ENGLISH
$L = 0.65(W)(S)$	$L = (W)(S)$

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

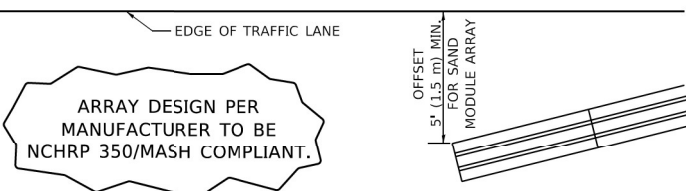


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH 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 ENCR OACHMENT 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.

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	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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	44
TC-17			CONTRACT NO. 62T36	
ILLINOIS FED. AID 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

M6-2-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

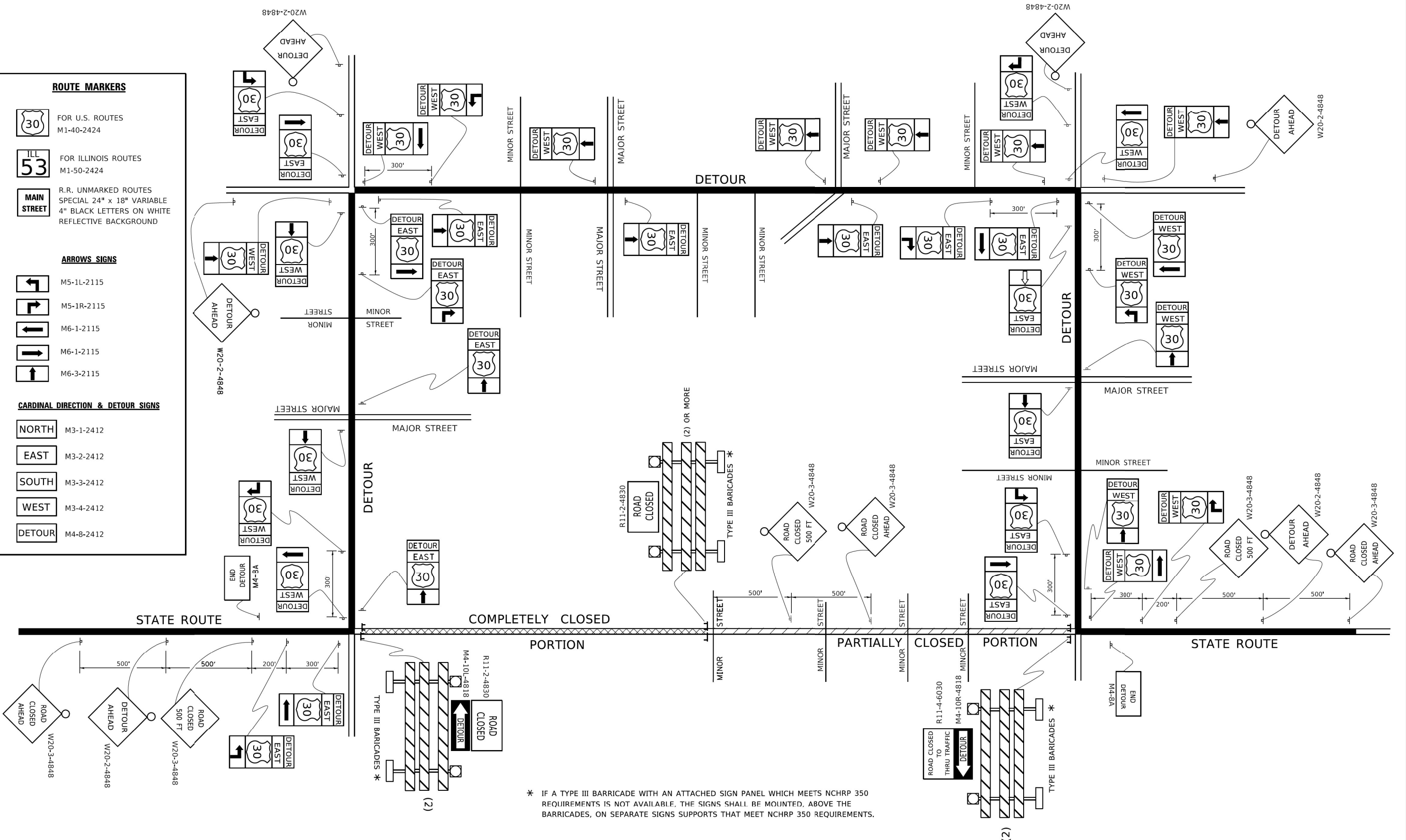
NORTH M3-1-2412

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.

MODEL - Default: FILE NAME: p:\110848E\BID\NTEG\Illinois\p\WIDOT\Documents\DOT Offices\Bldg\11\Projects\DKS\4823\24\CADD\Nal\CAD\Sheet\TC21.dgn

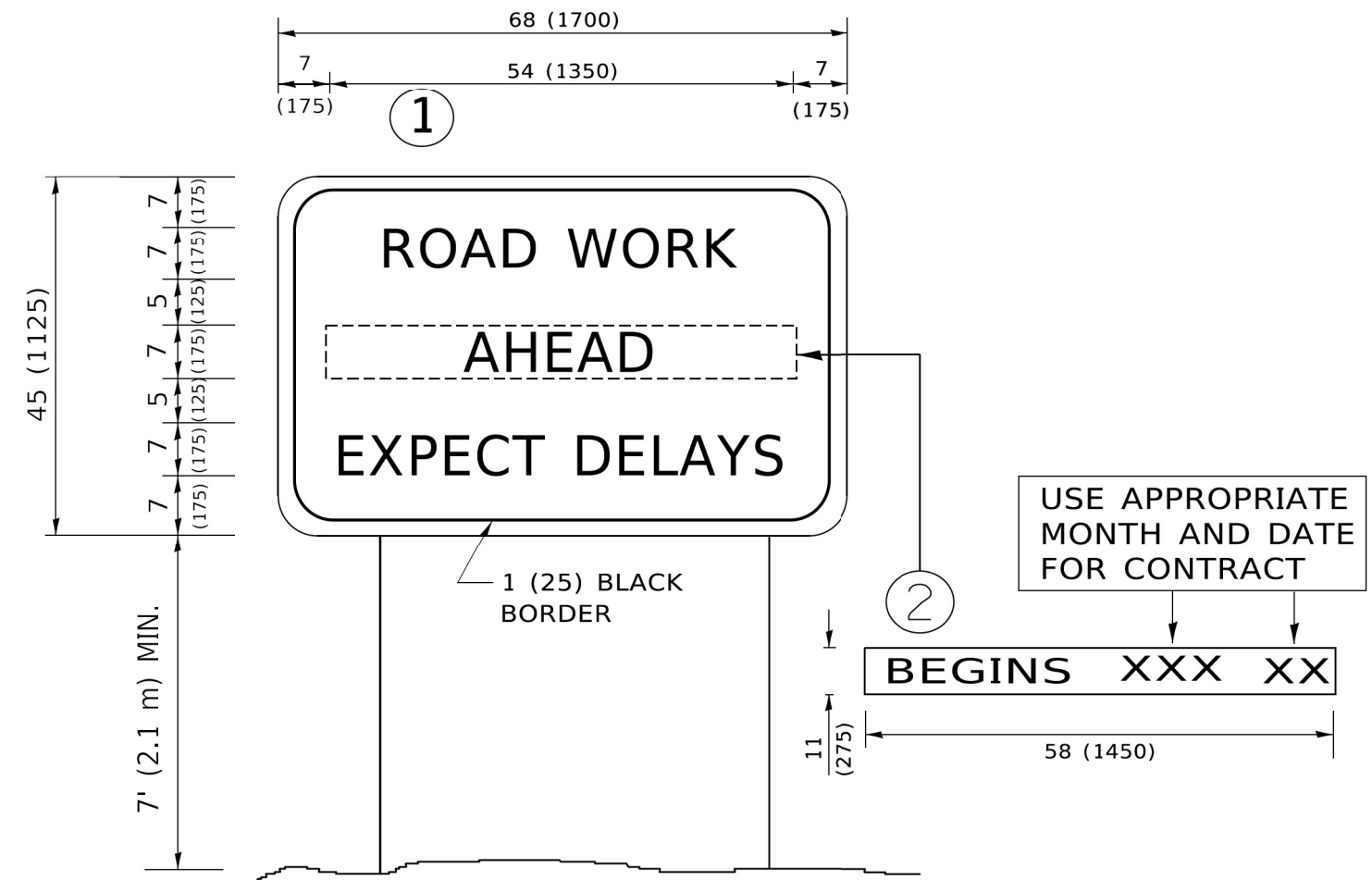
USER NAME = footemj	DESIGNED -	REVISED - 10-18-02
	DRAWN -	REVISED - R. BORO 09-14-09
PLOT SCALE = 50,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	45
TC-21		CONTRACT NO. 62T36		
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: Default; FILE NAME: p:\u00484EBD\NTEG\Illinois.gov\PIV\DOT\Documents\DOT Offices\District 1\Projects\DU\S423\21\CADD\NA\CAD\Sheet122.dgn

USER NAME = footej	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**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1282	1282 22 BJ	COOK	46	46
TC-22			CONTRACT NO. 62T36	
ILLINOIS FED. AID PROJECT				