

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR	COOK/WILL	20	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 62C12		

D-91-270-16



**PROPOSED
HIGHWAY PLANS**

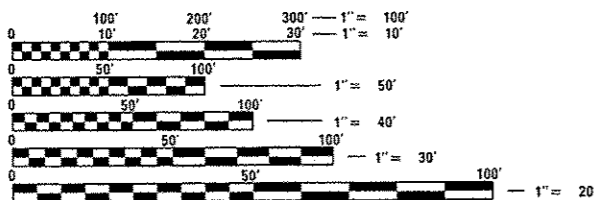
**ROUTE: VARIOUS LOCATIONS IN SOUTH COOK AND WILL COUNTIES
GUARDRAIL REPLACEMENTS**

**SECTION: 2016-004GRR
PROJECT: ACHSIP-000V(065)**

**COOK COUNTY AND WILL COUNTIES
C-91-270-16**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE CITIES OF HARVEY AND PALOS HILLS AND VILLAGES OF BOLINGBROOK, PLAINFIELD, BURR RIDGE, SUMMIT, TINLEY PARK, THORNTON AND ORLAND PARK.



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.

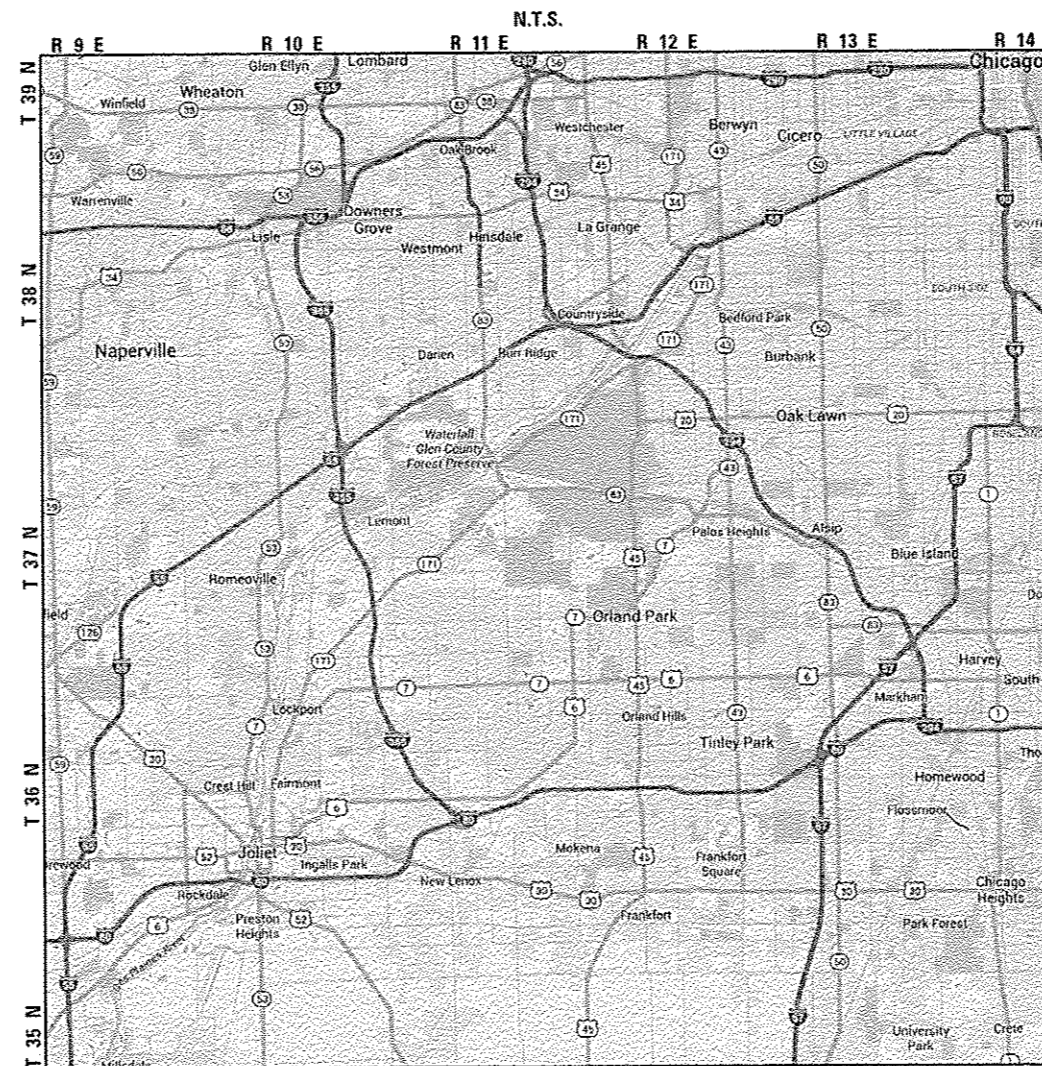
DIGGER
CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

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

PROJECT ENGINEER: BENJAMIN HARTMAN (815) 385-1778
PROJECT MANAGER: DANIEL WILGREEN (847) 705-4240

CONTRACT NO. 62C12

LOCATION MAP



LYONS, PALOS, ORLAND, THORNTON, PLAINFIELD, DUPAGE, FRANKFORT TOWNSHIPS
COOK COUNTY, WILL COUNTY



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED MARCH 24, 2016

[Signature]
REGIONAL ENGINEER

May 6, 2016
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 6, 2016
[Signature]
DIRECTOR OF PROGRAM DEVELOPMENT

PROFESSIONAL ENGINEER'S SIGN & SEAL

[Signature]
BENJAMIN D. HARTMAN, P.E.
EXPIRES: 11-30-17



PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 OR DIGGER AT 312-744-700 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. REMOVAL OF DAMAGED MATERIALS WILL INCLUDE DISMANTLING, LOADING, HAULING AND DISPOSAL. THE WORK SITE WILL BE LEFT IN A SAFE AND ORDERLY CONDITION.
3. NO MATERIAL SHOULD BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
4. ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR.
5. REMOVED GUARDRAIL MUST BE REPLACED ON THE SAME DAY UNLESS AUTHORIZED BY THE RESIDENT ENGINEER. NO LOCATIONS WILL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.
6. THE CONTRACTOR SHALL ONLY PERFORM WORK ON ONE SIDE OF THE ROADWAY AT ANY TIME.
7. THE CORING REQUIRED FOR THE INSTALLATION OF GUARDRAIL POSTS WITHIN CONCRETE AND ASPHALT AREAS IS INCLUDED IN THE COST OF THE STEEL PLATE BEAM GUARDRAIL.
8. GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS.
9. THE REMOVAL OF EXISTING CONCRETE CURB TO PROVIDE A DEPRESSED CURB ALONG THE TERMINAL SECTION, PER DISTRICT ONE DETAIL (BD-34), SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST FOR THE TERMINAL SECTION.
10. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE LOCAL AGENCIES LISTED ON THE COVER SHEET.
11. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
12. THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "GUARDRAIL REMOVAL".
13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
14. THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 AND THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
15. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
16. THE CONTRACTOR SHALL VERIFY THE EXISTING TYPE/HEIGHT OF EXISTING GUARDRAIL BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION SHALL MATCH THE HEIGHT OF THE EXISTING GUARDRAIL.

LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS >= 45 MPH
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701421-07	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >= 45 MPH TO 55 MPH
701422-08	LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701901-05	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
725001	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631033-06	TRAFFIC BARRIER TERMINAL, TYPE 6B
635001-02	DELINEATORS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS >= 45 MPH
701400-08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-09	LANE CLOSURE, FREEWAY/EXPRESSWAY

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR Voids @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
SHOULDERS		
HMA SHOULDER (HMA BINDER IL-19mm); 6"	4.0% @ 50 GYR.	QC/OA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA)		

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SO YD/IN.

THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76 -22". FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

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 PROJECT CONTACT: HRGreen.com
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS,
AND GENERAL NOTES**

SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A.I. RTE. VAR.	SECTION 2016-004GRR	COUNTY COOK/WILL	TOTAL SHEETS 20	SHEET NO. 2
			CONTRACT NO. 62C12		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

URBAN

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES	90% FED	90% FED
				10% STATE	10% STATE
				0021	0021
				COOK	WILL
20200100	EARTH EXCAVATION	CU YD	226	183	43
20400800	FURNISHED EXCAVATION	CU YD	24	24	0
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	298	210	88
25200110	SODDING, SALT TOLERANT	SO YD	298	210	88
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	4	3	1
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	4	3	1
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	4	3	1
44004250	PAVED SHOULDER REMOVAL	SO YD	146	12	134
48101200	AGGREGATE SHOULDERS, TYPE B	TON	417	369	48
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SO YD	179	19	160
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1,525.0	1,162.5	362.5
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	0
63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1	1	0
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	18	13	5
63200310	GUARDRAIL REMOVAL	FOOT	1,034	759	275
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	15	4	11
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	0.3	0.7
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	1	1

* SPECIALTY ITEMS

URBAN

PAYCODE	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES	90% FED	90% FED
				10% STATE	10% STATE
				0021	0021
				COOK	WILL
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3
67100100	MOBILIZATION	LSUM	1	0.7	0.3
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	LSUM	1	1	0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1	0
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1	0
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1	1	0
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	1	1
78200410	GUARDRAIL MARKERS, TYPE A	EACH	22	17	5
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	18	13	5
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	1	0.5	0.5
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	155	155	0

* SPECIALTY ITEMS

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 PROJECT CONTACT: HRGreen, Inc.
 COUNTY: COOK
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A.I. RTE. VAR.	SECTION 2016-004GRR	COUNTY COOK/WILL	TOTAL SHEETS 20	SHEET NO. 3
			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 62C12		

	20200100	20400800	21101615	25200110	25000400	25000500	25000600	44004250	48101200	48203021	63000001	63100045	63100089	63100167	63200310	66900200	66900530
	EARTH EXCAVATION	FURNISHED EXCAVATION	TOPSOIL F & P 4	SODDING SALT TOLERANT	NITROGEN FERT NUTR	PHOSPHORUS FERT NUTR	POTASSIUM FERT NUTR	PAVED SHLD REMOVAL	AGGREGATE SHLDS B	HMA SHOULDERS 6	SPBGR TY A 6FT POSTS	TRAF BAR TERM T2	TRAF BAR TERM T6B	TR BAR TRM T1 SPL TAN	GUARDRAIL REMOV	NON SPL WASTE DISPOSL	SOIL DISPOSAL ANALY
	CU YD	CU YD	SQ YD	SQ YD	POUND	POUND	POUND	SQ YD	TON	SQ YD	FOOT	EACH	EACH	EACH	FOOT	CU YD	EACH
LOCATION 1	7	0	0	0	0	0	0	0	13	0	25.0	0	0	1	75.0	0	0
LOCATION 2	5	0	0	0	0	0	0	30	0	35	0.0	0	0	1	50.0	3	0.3
LOCATION 3	10	0	88	88	1.1	1.1	1.1	82	0	95	225.0	0	0	1	50.0	5	0.3
LOCATION 4	4	0	0	0	0	0	0	22	0	30	0.0	0	0	1	50.0	3	0.3
LOCATION 5	17	0	0	0	0	0	0	0	35	0	112.5	0	0	1	50.0	0	0
LOCATION 6	6	0	0	0	0	0	0	0	11	0	0.0	0	0	1	50.0	0	0
LOCATION 7	7	0	0	0	0	0	0	0	14	0	0.0	0	0	1	50.0	0	0
LOCATION 8	11	0	0	0	0	0	0	0	23	0	150.0	0	0	1	37.5	0	0
LOCATION 9	0	0	0	0	0	0	0	0	0	0	12.5	1	0	0	12.5	0	0
LOCATION 10	22	6	100	100	1.2	1.2	1.2	0	44	0	262.5	0	0	2	101.0	0	0
LOCATION 11	61	0	0	0	0	0	0	0	124	0	125.0	0	0	2	150.0	0	0
LOCATION 12	21	18	105	105	1.3	1.3	1.3	0	42	0	275.0	0	0	2	82.0	0	0
LOCATION 13	14	0	0	0	0	0	0	0	28	0	125.0	0	1	1	62.5	0	0
LOCATION 14	0	0	5	5	0.1	0.1	0.1	12	0	19	0.0	0	0	1	87.5	4	1
LOCATION 15	41	0	0	0	0	0	0	0	83	0	212.5	0	0	2	126.0	0	0

	67000400	70106800	78200410	78201000	Z0030850
	ENGR FIELD OFFICE A	CHANGEABLE MESSAGE SN	GUARDRAIL MKR TYPE A	TERMINAL MARKER - DA	TEMP INFO SIGNING
	CAL MO	CAL MO	EACH	EACH	SQ FT
LOCATION 1	0.6	0.5	0	1	0.0
LOCATION 2	0.6	0.5	0	1	0.0
LOCATION 3	0.6	0.0	3	1	0.0
LOCATION 4	0.6	0.0	0	1	0.0
LOCATION 5	0.6	0.0	2	1	0.0
LOCATION 6	0.3	0.5	0	1	0.0
LOCATION 7	0.3	0.0	0	1	0.0
LOCATION 8	0.3	0.0	2	1	0.0
LOCATION 9	0.3	0.5	0	0	0.0
LOCATION 10	0.3	0.0	4	2	25.7
LOCATION 11	0.3	0.0	2	2	25.7
LOCATION 12	0.3	0.0	4	2	25.7
LOCATION 13	0.3	0.0	2	1	25.7
LOCATION 14	0.3	0.0	0	1	25.7
LOCATION 15	0.3	0.0	3	2	25.7

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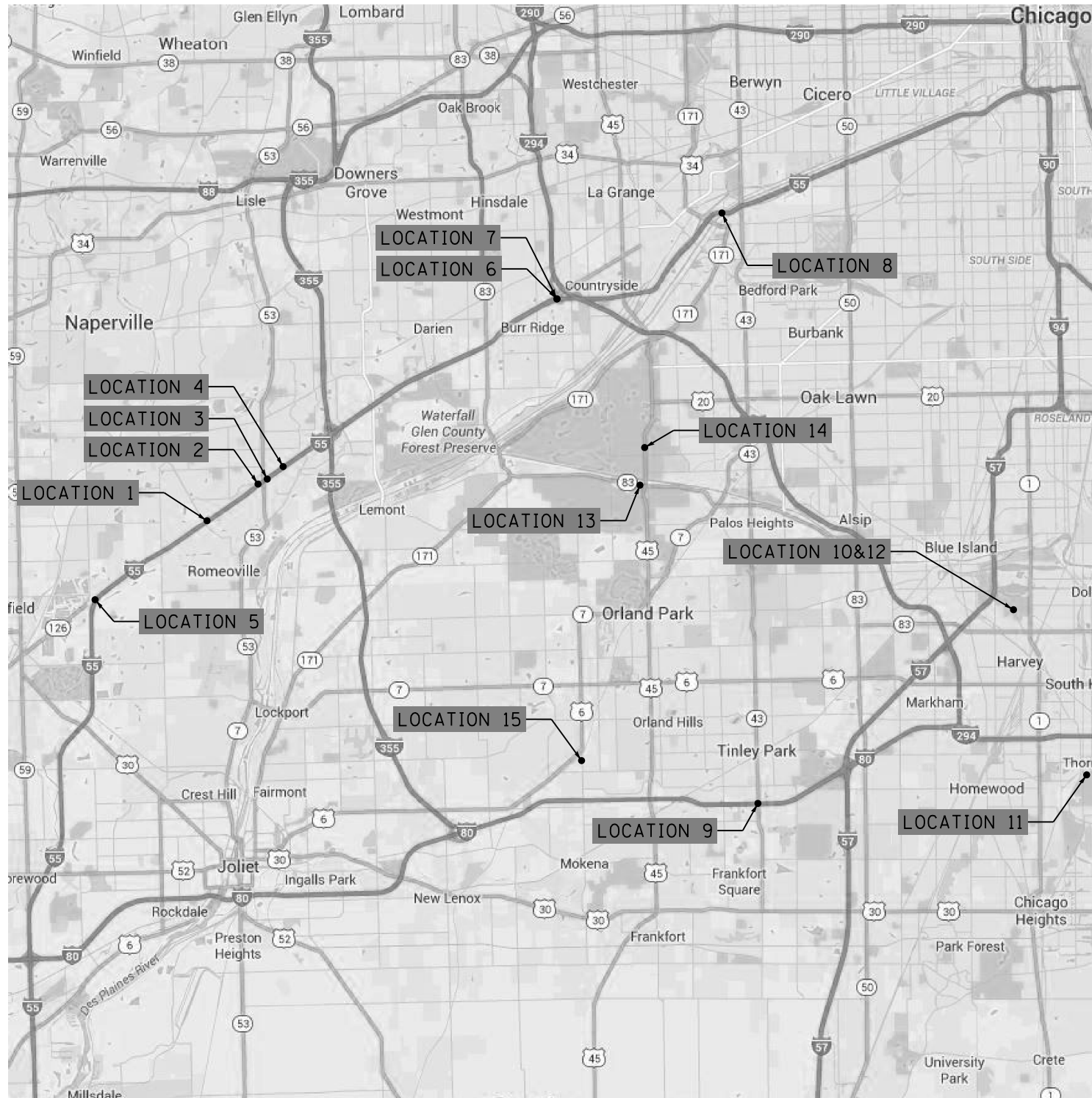


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO.	OF	SHEETS
N.T.S.	1	1	
STA.			TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR	COOK/WILL	20	4
CONTRACT NO.			62C12	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LOCATION	COUNTY	ROUTE	APPROXIMATE LOCATION
1	WILL	I-55	N/B, RHS, JUST N/O VETERANS PARKWAY
2	WILL	I-55	N/B, RHS, START OF EXIT RAMP TO IL-53
3	WILL	I-55	N/B, RHS, JUST S/O IL-53
4	WILL	I-55	N/B, RHS, 0.7 MILE N/O IL-53
5	WILL	I-55	N/B, RHS, ON ENTRANCE RAMP FROM IL-126
6	COOK	I-55	N/B, LHS, EXIT RAMP TO JOLIET RD
7	COOK	I-55	N/B, RHS, EXIT RAMP TO JOLIET RD
8	COOK	I-55	N/B, LHS, ENTRANCE RAMP FROM S/B IL-171 (LONG ARM)
9	COOK	I-80	E/B, LHS, AT IL-43
10	COOK	THORNTON RD	S/B, RHS, 0.5 MILE N/O IL-83
11	COOK	MARGARET ST	W/B, RHS, 0.3 MILE W/O IL-394
12	COOK	THORNTON RD	N/B, RHS, 0.5 MILE N/O IL-83
13	COOK	IL-83	S/B, RHS, JUST W/O US-45
14	COOK	US-45	N/B, RHS, 0.2 MILE N/O 107TH ST
15	COOK	WOLF RD	N/B, RHS, 0.2 MILE S/O US-6

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 PROJECT CONTACT: [Redacted]
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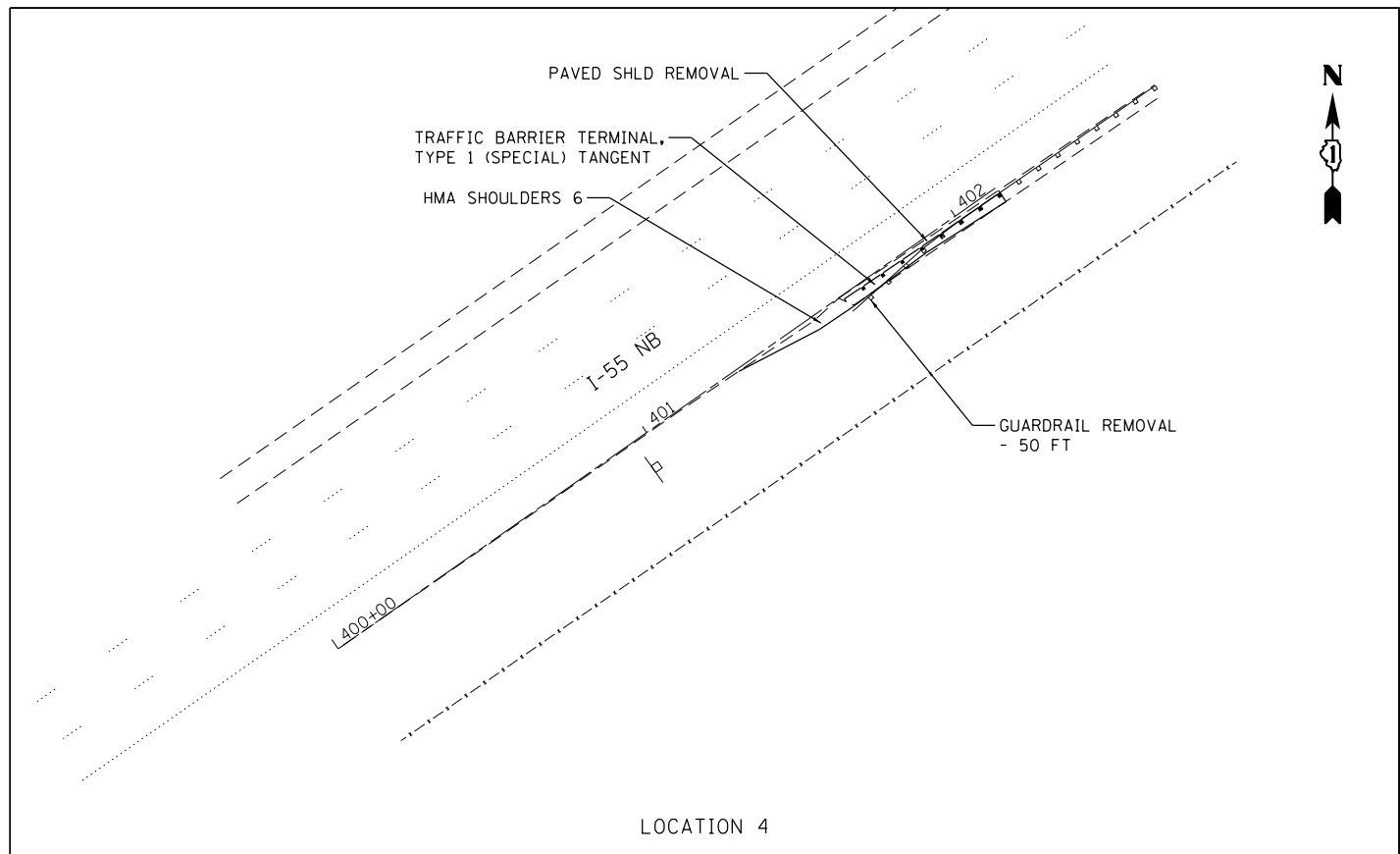
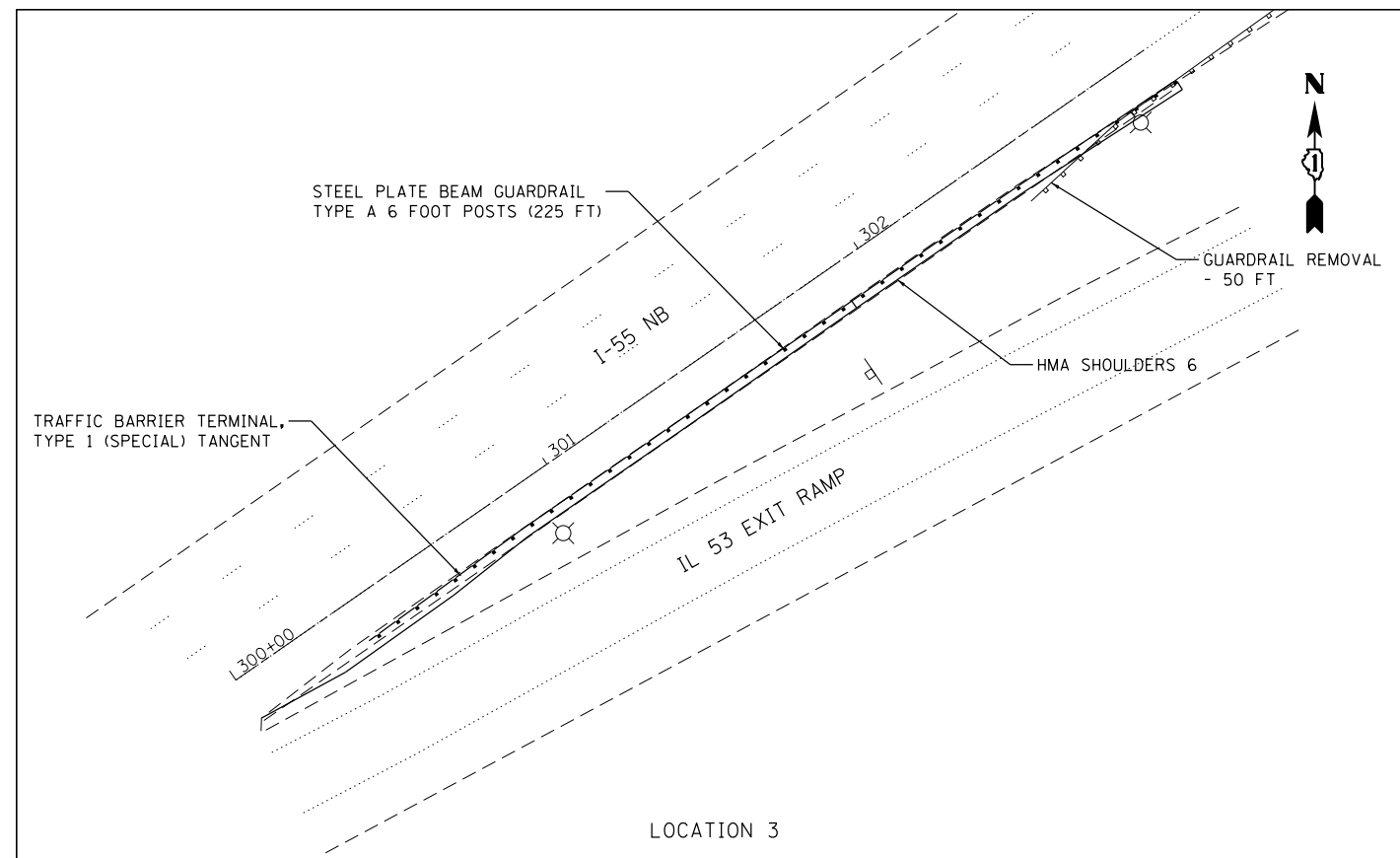
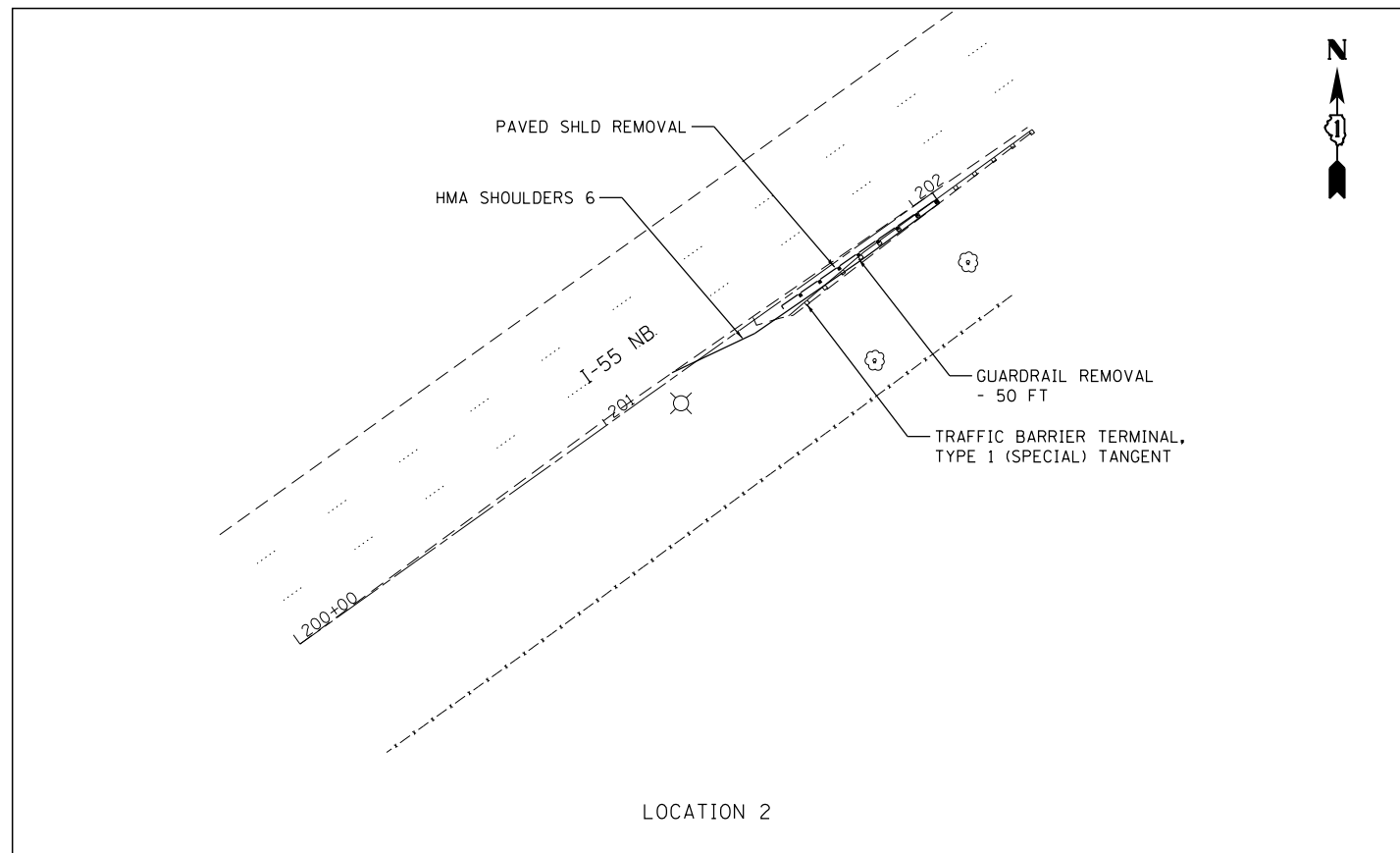
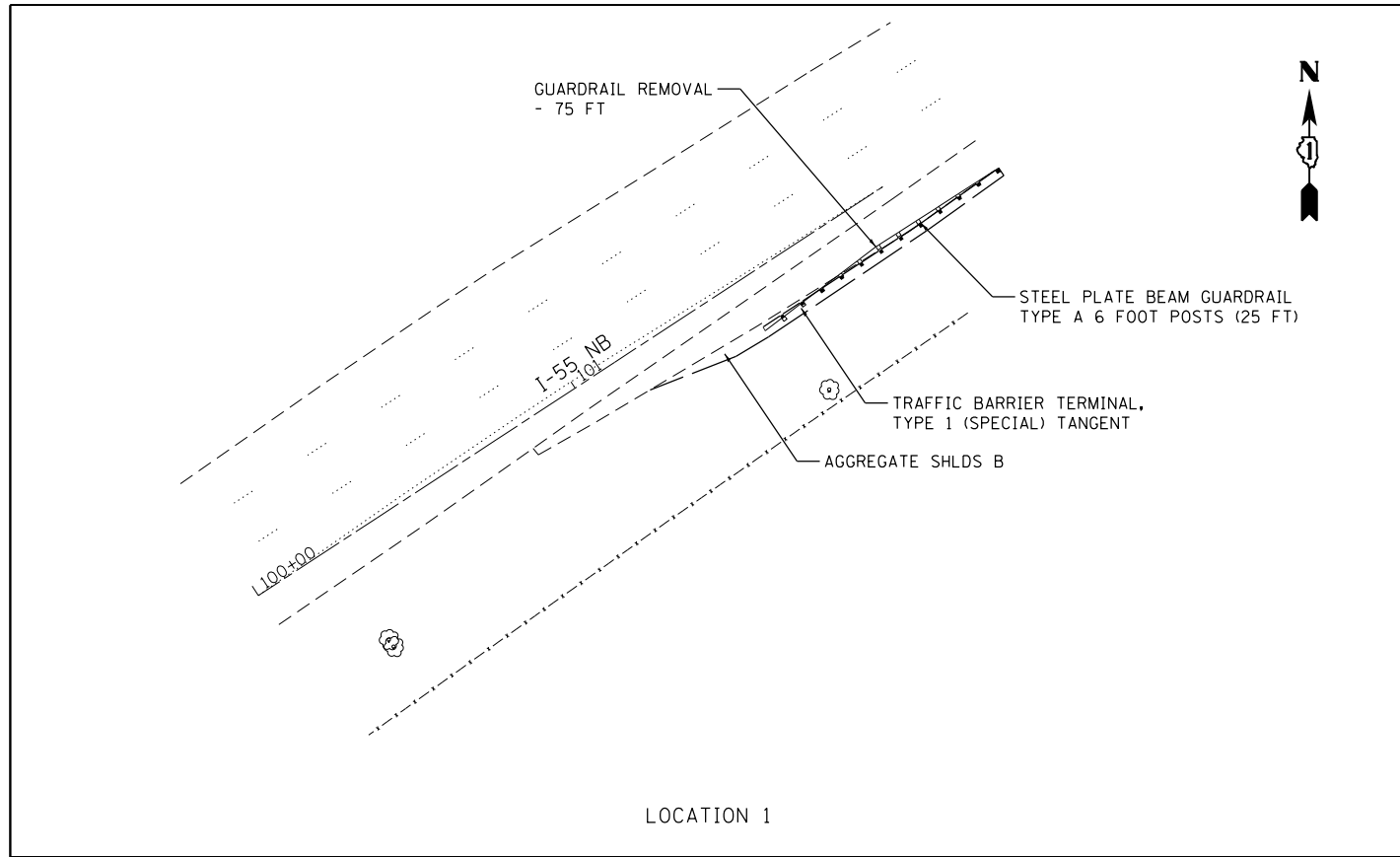
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
LOCATION MAP

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR	COOK/WILL	20	5
CONTRACT NO.			62C12	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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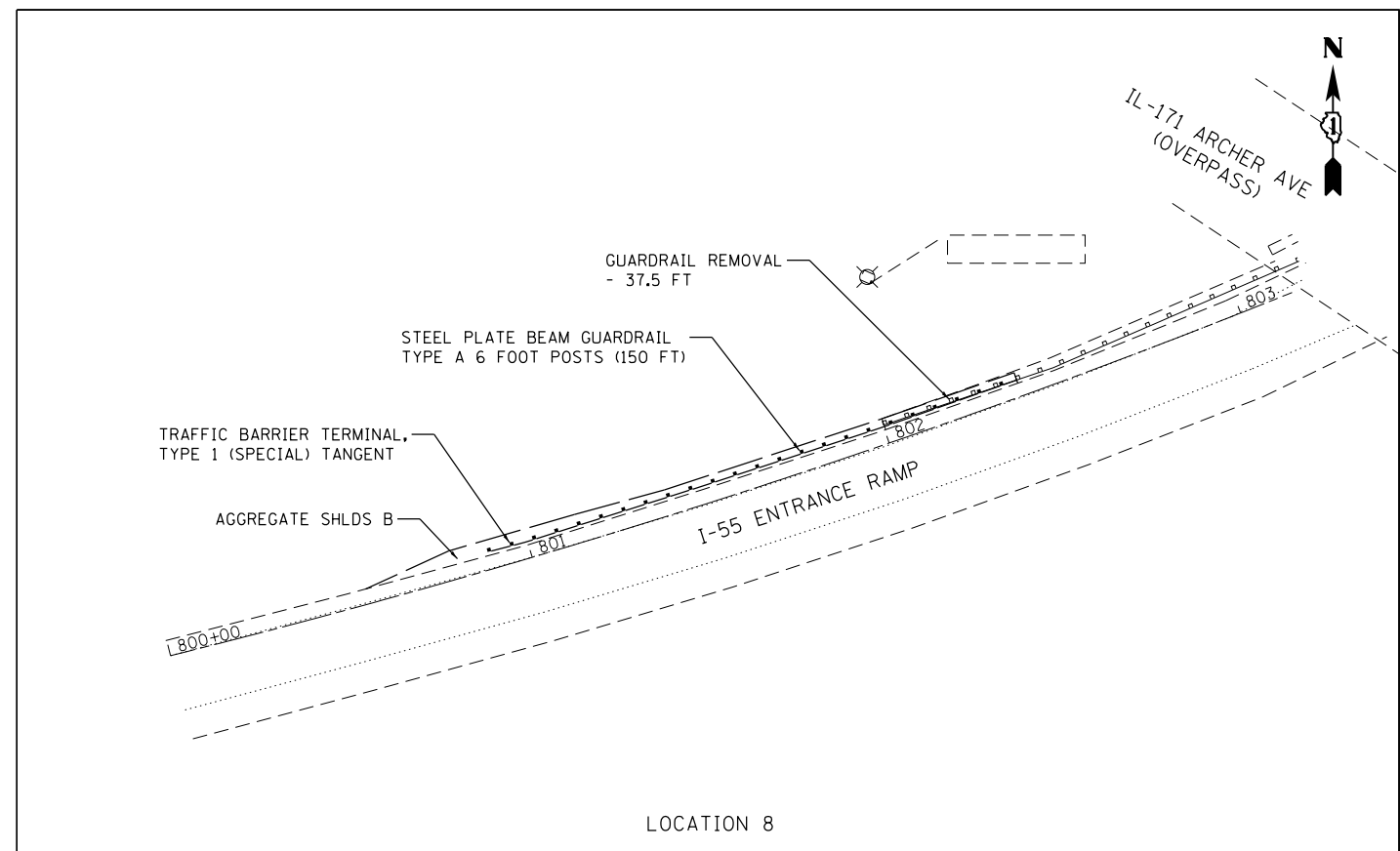
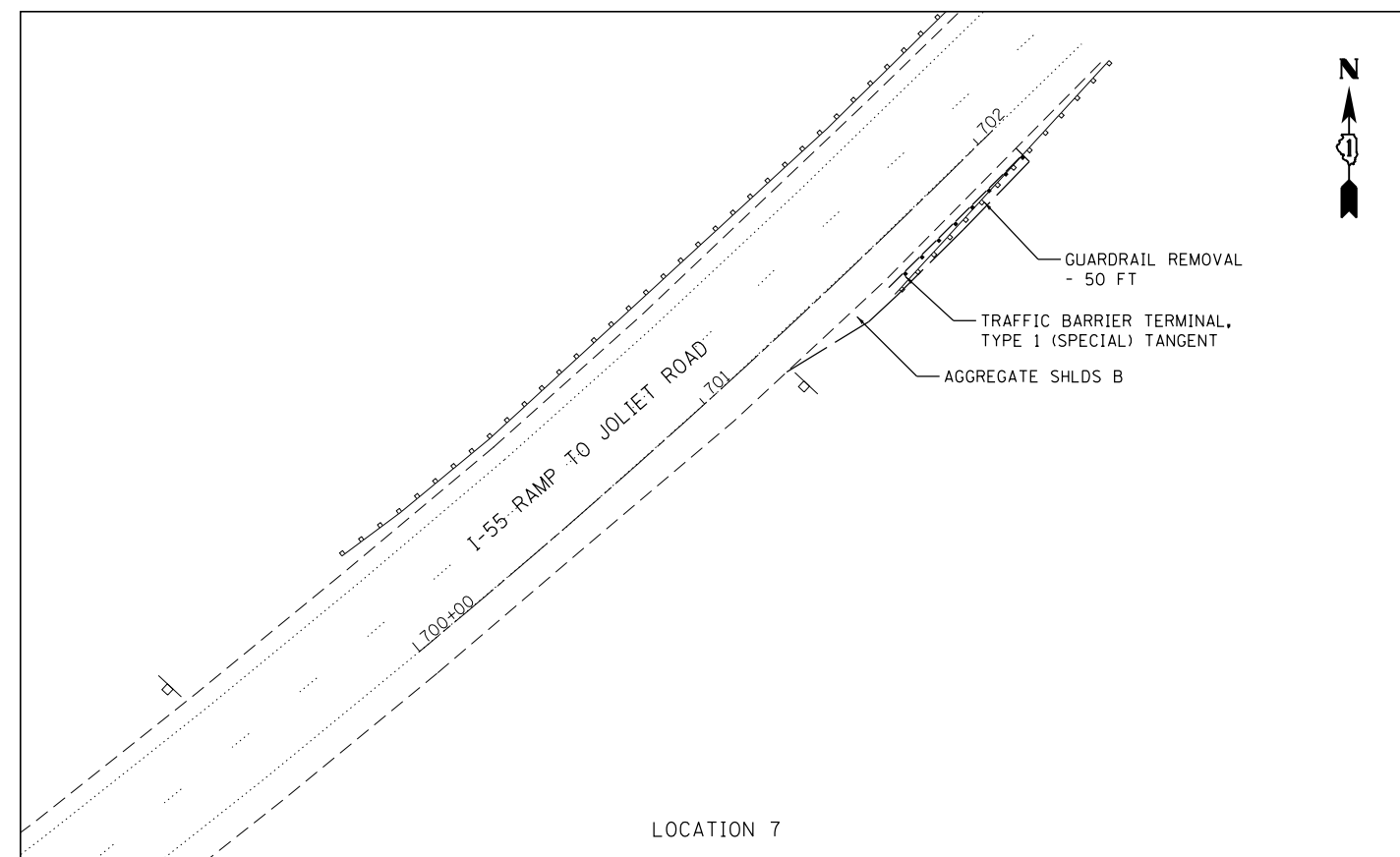
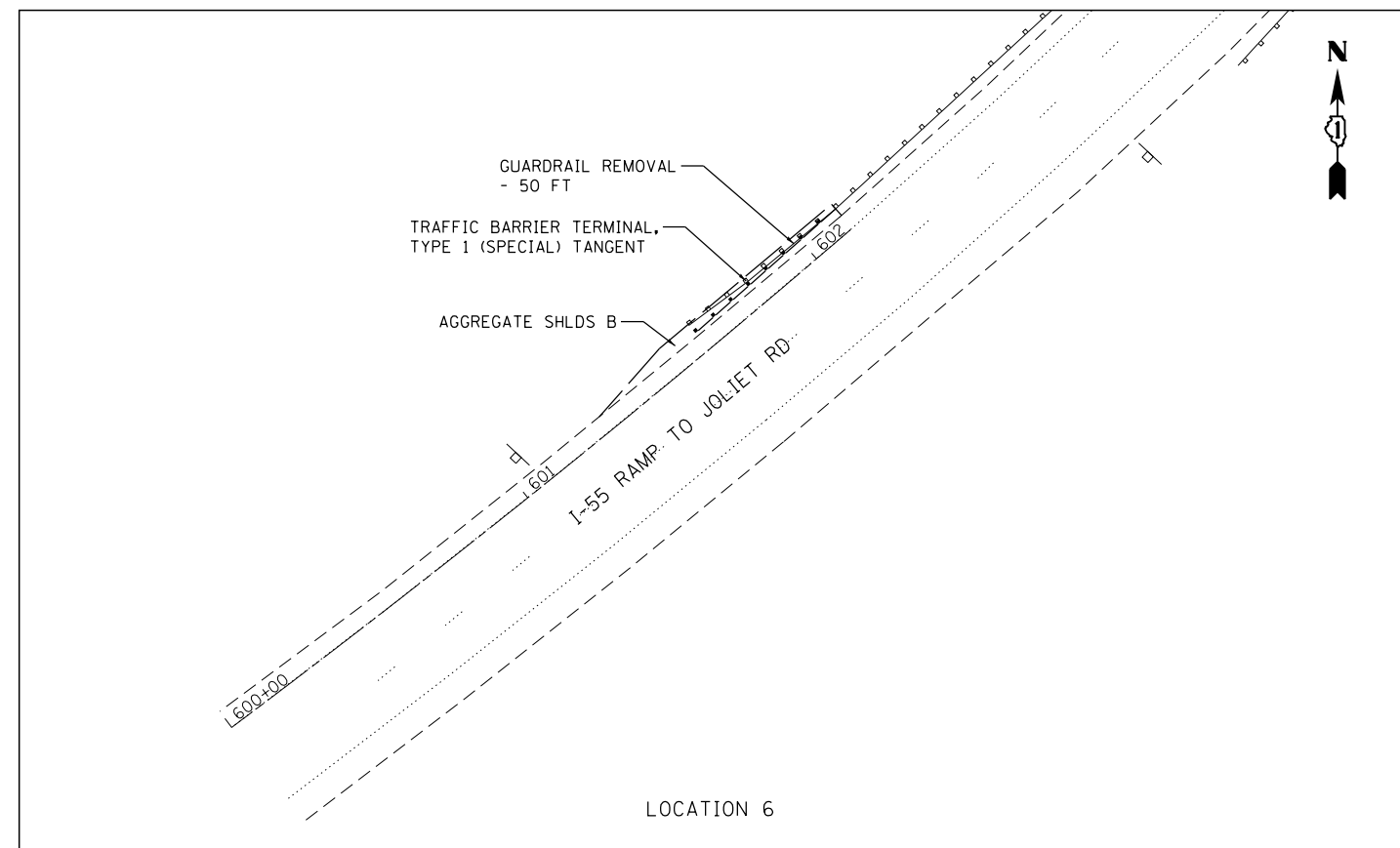
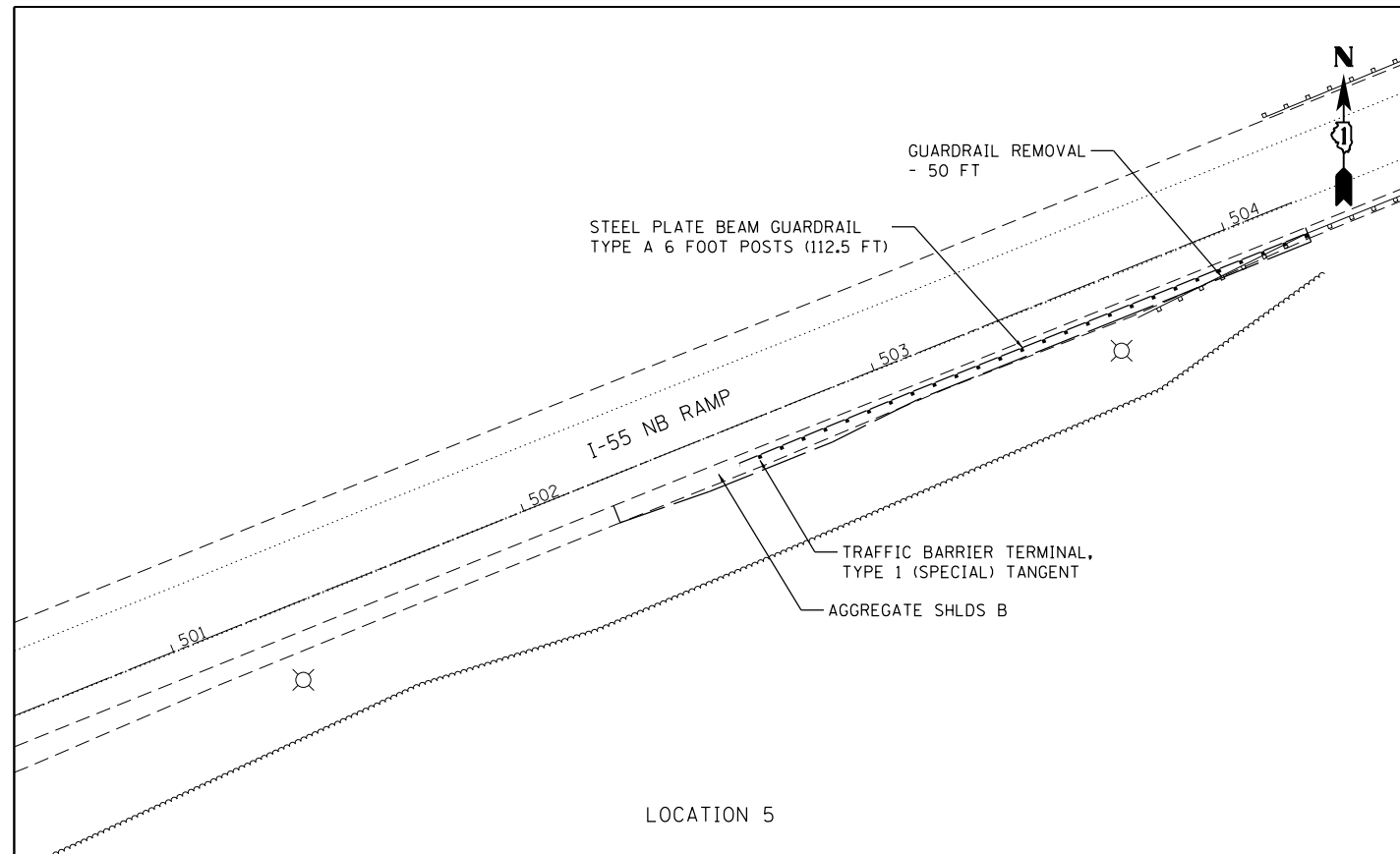
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
 ROADWAY PLANS

SCALE: 1"=25' SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR	COOK/WILL	20	6
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 62C12



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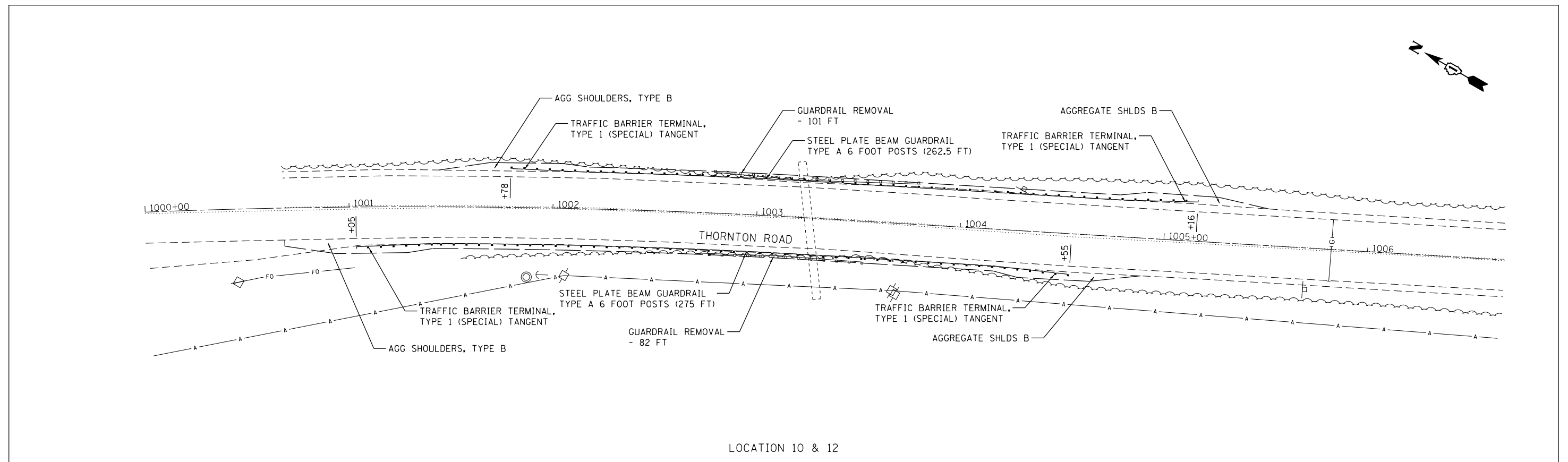
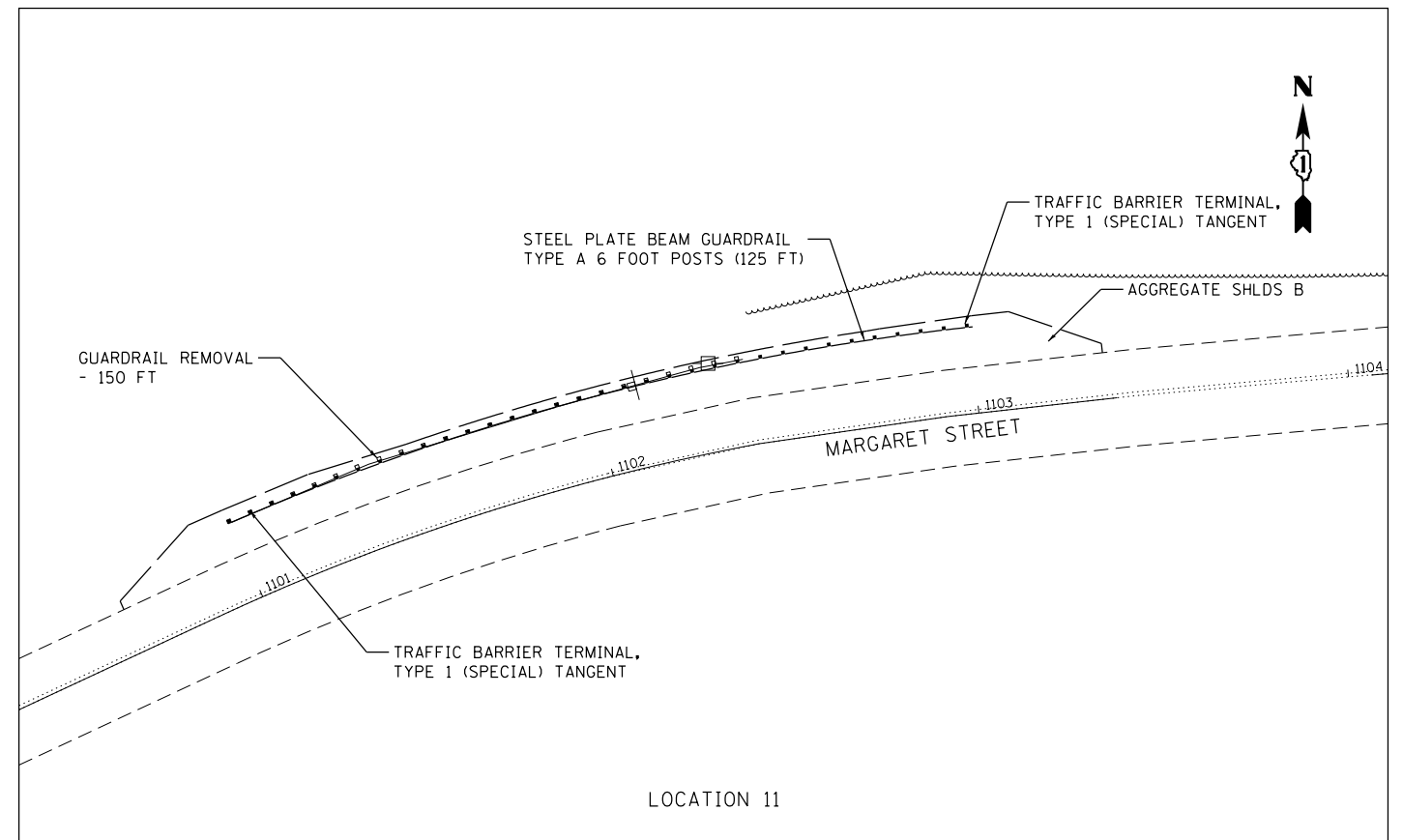
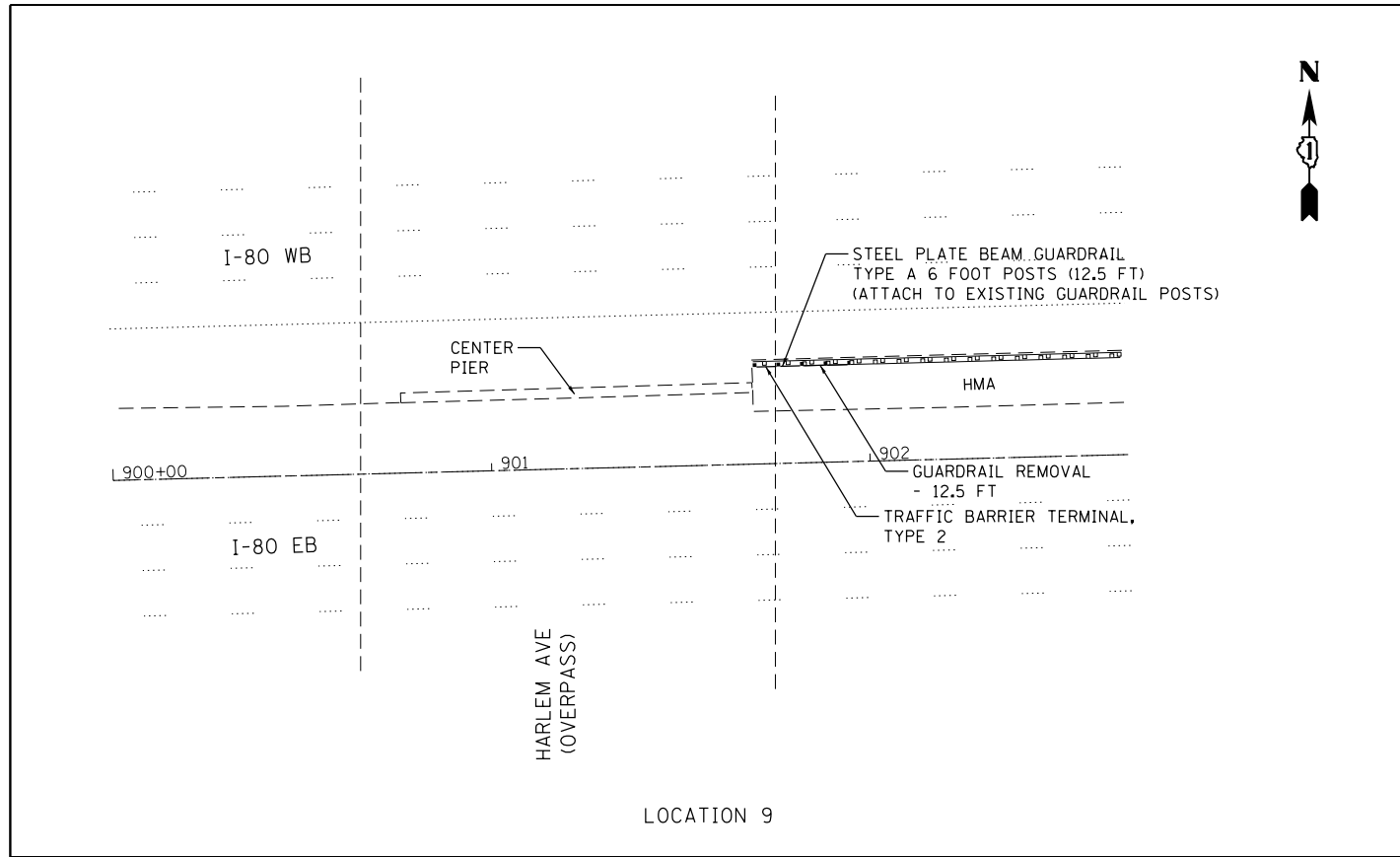
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PLOT DATE = 3/31/2016	DATE - 03/31/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
ROADWAY PLANS

SCALE: 1"=25' SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR	COOK/WILL	20	7
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 62C12	



COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 3/31/2016 2:40:05 PM
 FILE NAME: 86100196-57-sht-GuardRailRoadPlan-03.dgn
 PLOT DRIVER: ILpdf.plt
 PEN TABLE: plc-table.tbl



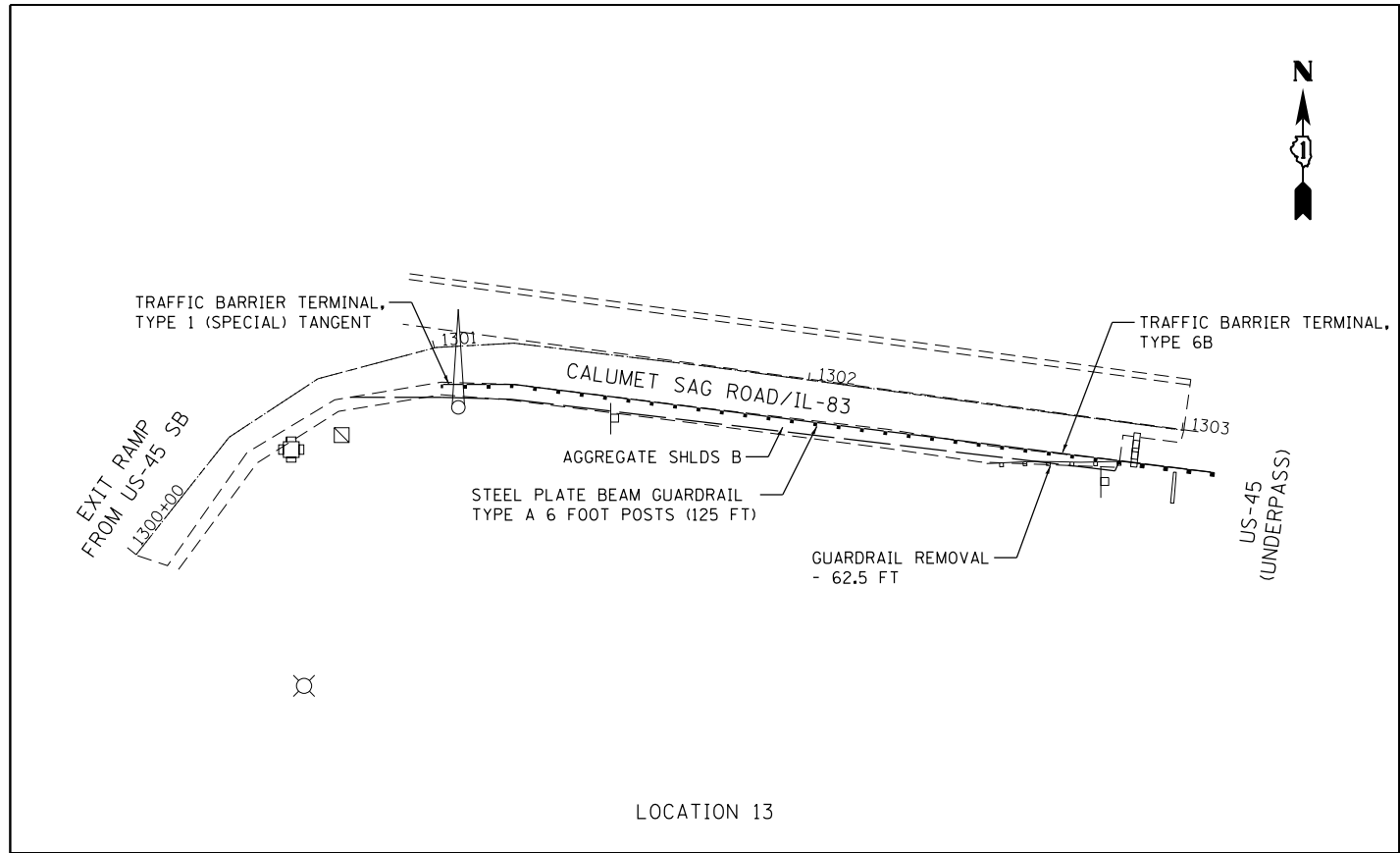
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PLOT DATE = 3/31/2016	DATE - 03/31/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

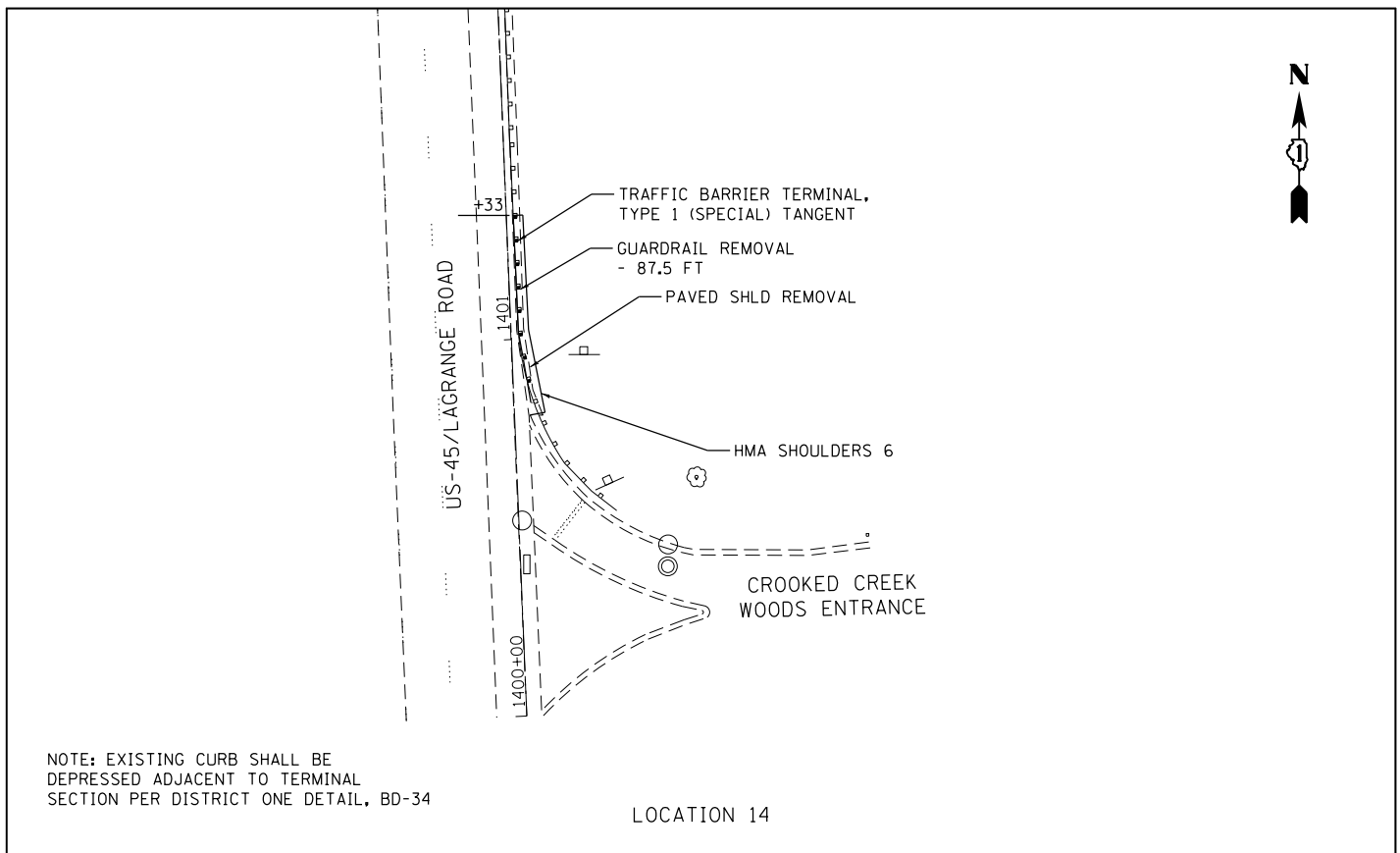
GUARDRAIL IMPROVEMENTS
ROADWAY PLANS

SCALE: 1"=25' SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR	COOK/WILL	20	8
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 62C12

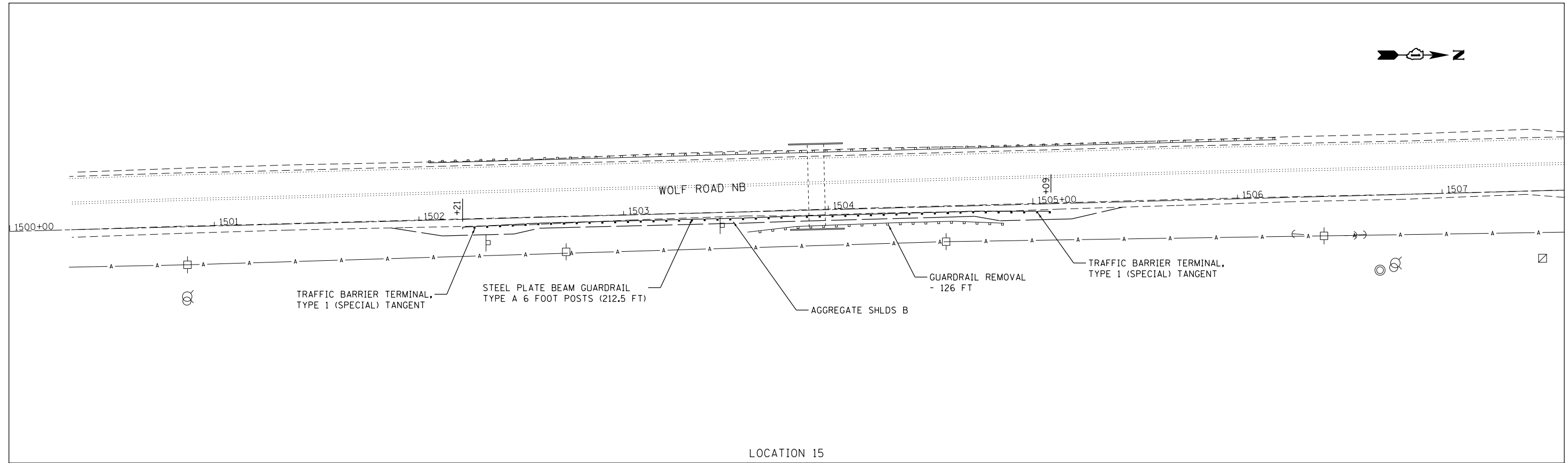


LOCATION 13



LOCATION 14

NOTE: EXISTING CURB SHALL BE DEPRESSED ADJACENT TO TERMINAL SECTION PER DISTRICT ONE DETAIL, BD-34



LOCATION 15

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: bhartma
 DATE PLOTTED: 3/31/2016 2:41:09 PM
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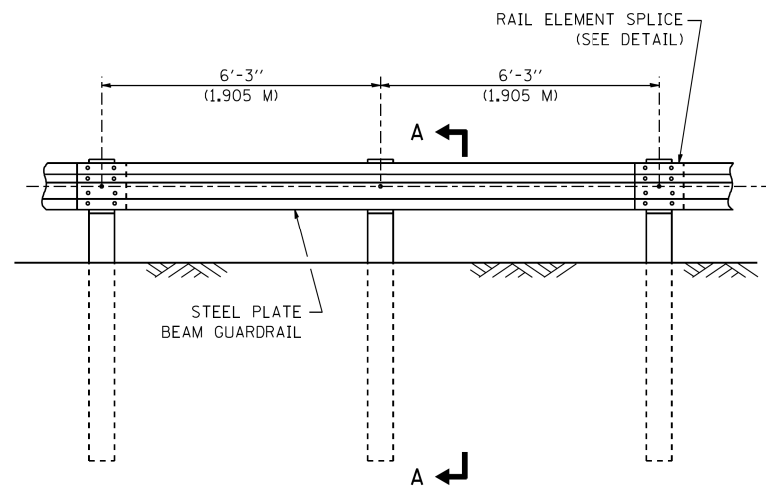
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PLOT DATE = 3/31/2016	DATE - 03/31/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GUARDRAIL IMPROVEMENTS
 ROADWAY PLANS

SCALE: 1"=25' SHEET NO. 4 OF 4 SHEETS STA. TO STA.

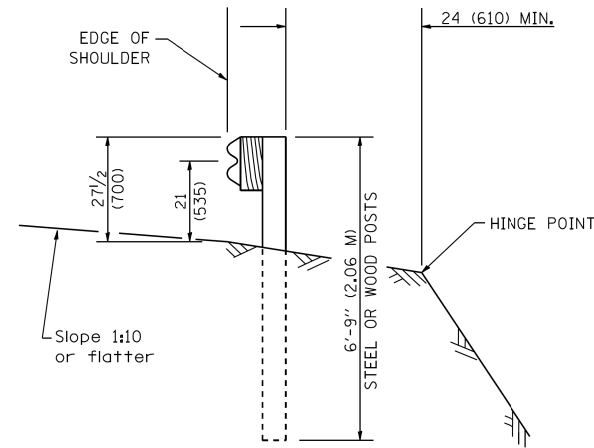
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VAR.	2016-004GRR	COOK/WILL	20	9
CONTRACT NO.			62C12	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



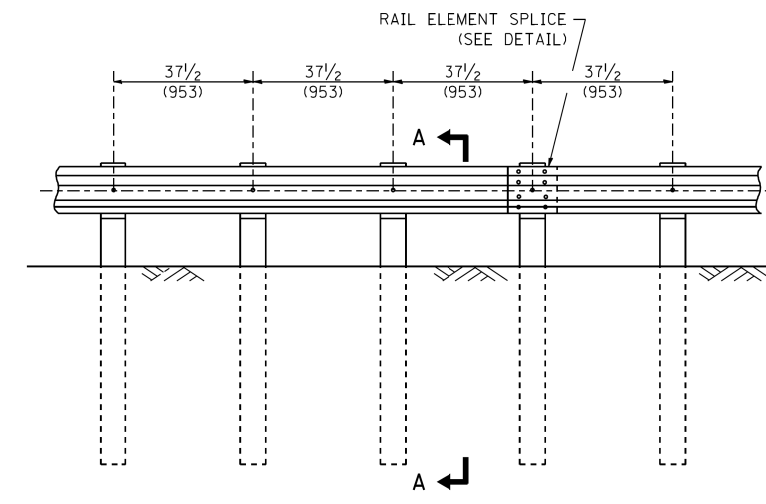
ELEVATION

TYPE A

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



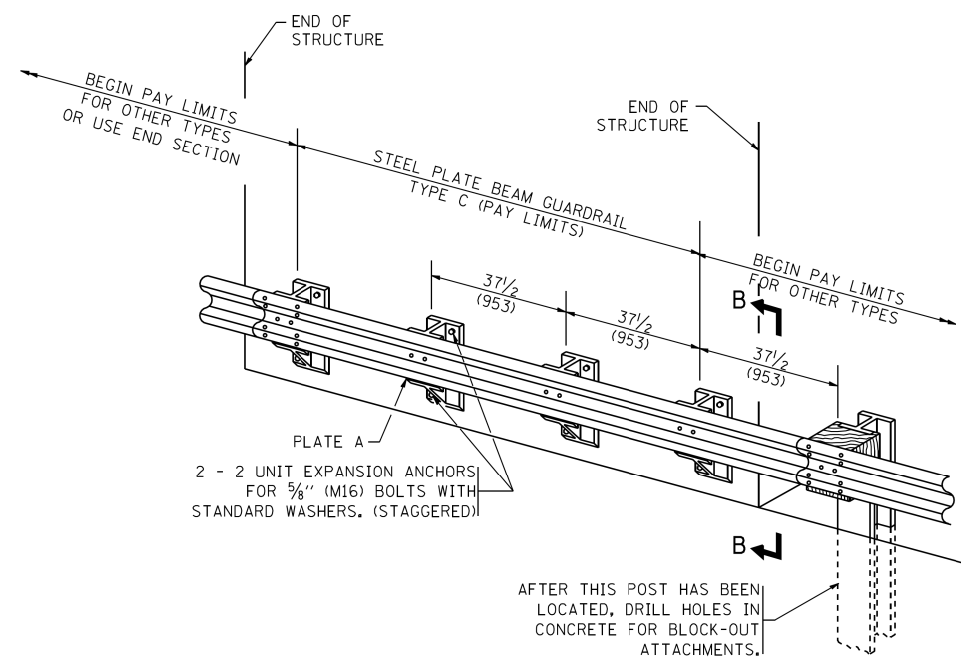
SECTION A-A



ELEVATION

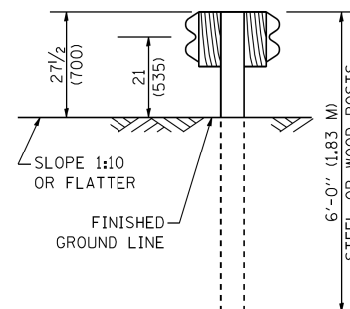
TYPE A

37 1/2 (953) CLOSED POST SPACING

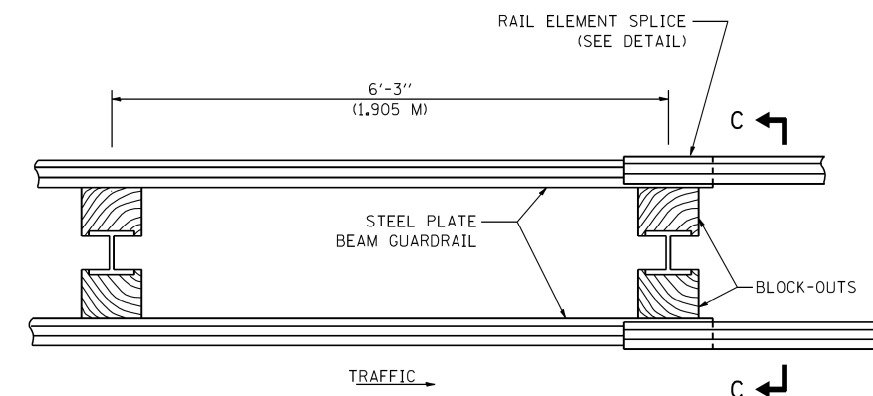


TYPE C

37 1/2 (953) BLOCK-OUT SPACING



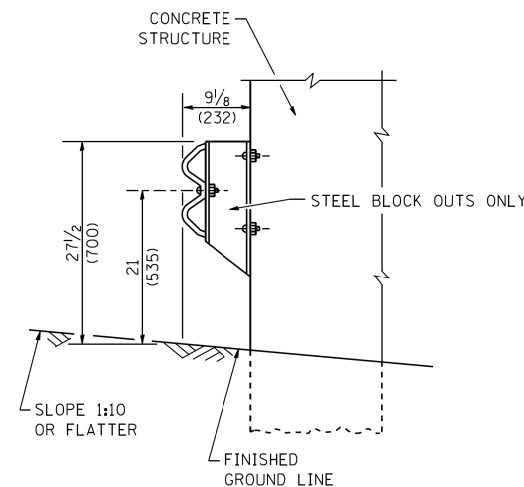
SECTION C-C



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.

COMPANY NAME: #COMPANY NAME#
PROJECT CONTACT: #PROJECT CONTACT#
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PEN TABLE: plc-table.tbl

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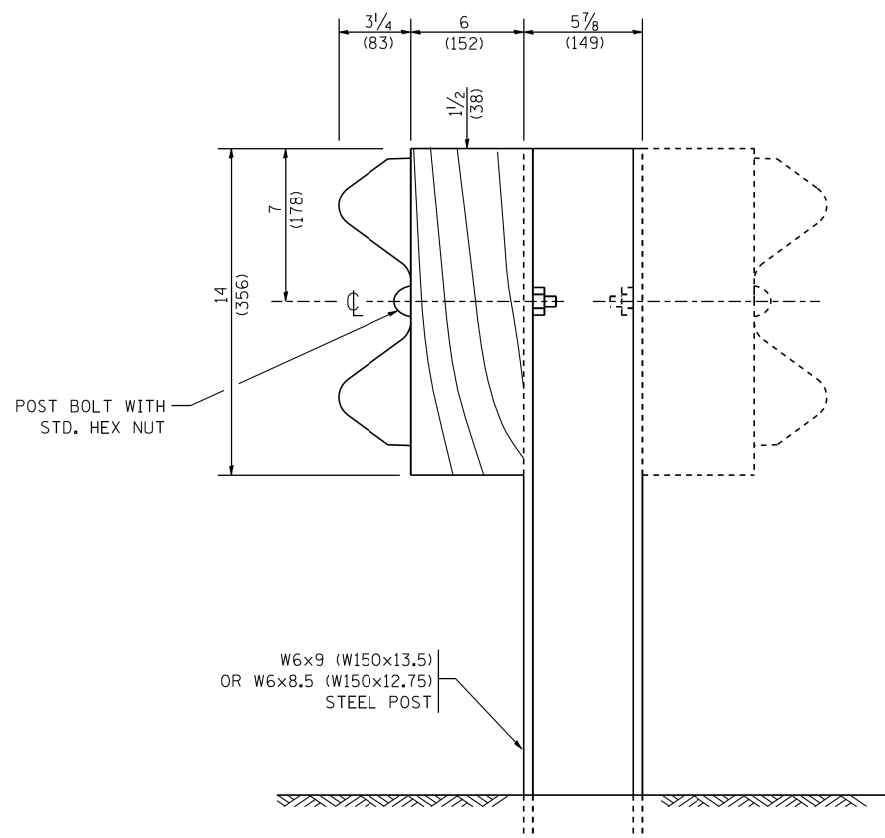
DESIGNED -	REVISED - 10-31-06
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

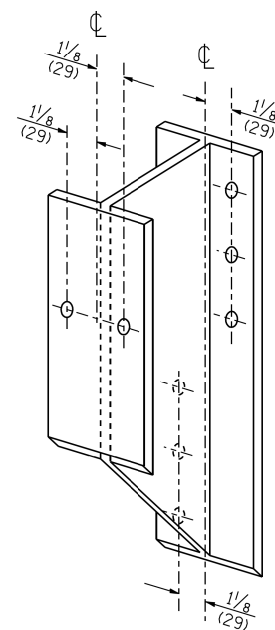
**REMOVE AND REERECT
STEEL PLATE BEAM GUARDRAIL**

SCALE: NONE SHEET NO. 1 OF 4 SHEETS STA. TO STA.

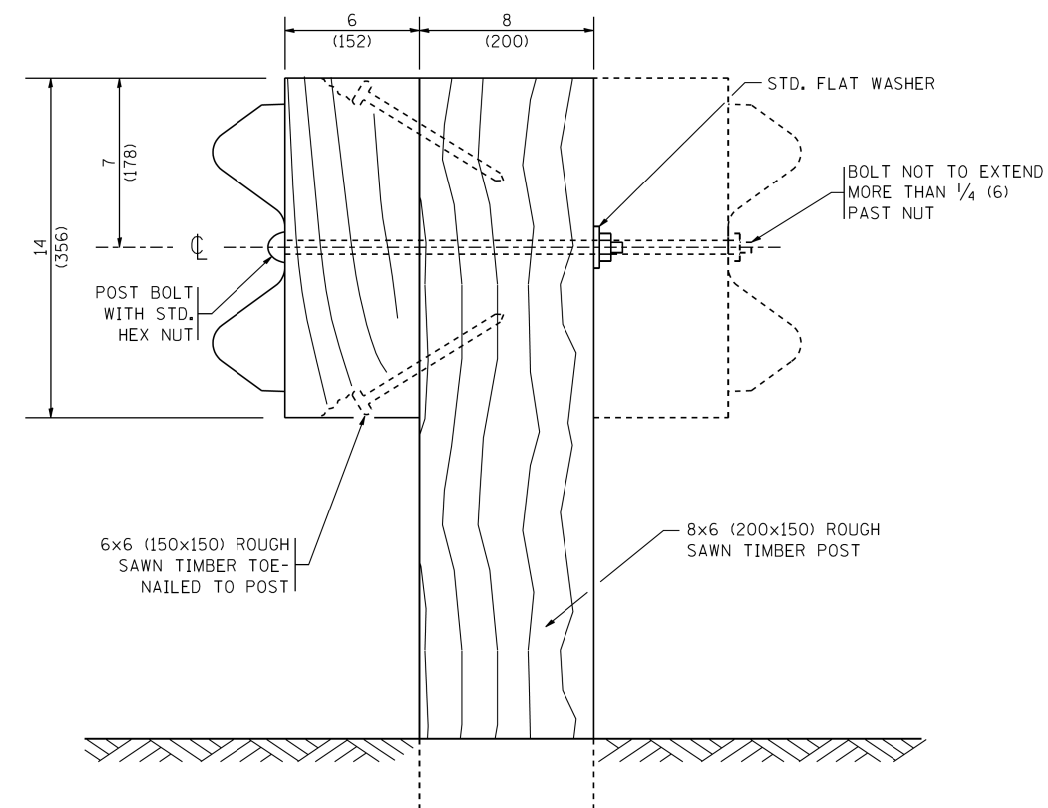
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR		20	11
BM-21		CONTRACT NO.	62C12	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



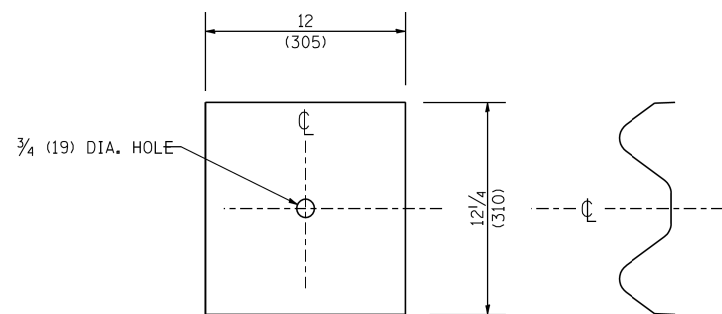
STEEL POST CONSTRUCTION



STEEL BLOCK-OUT DETAIL



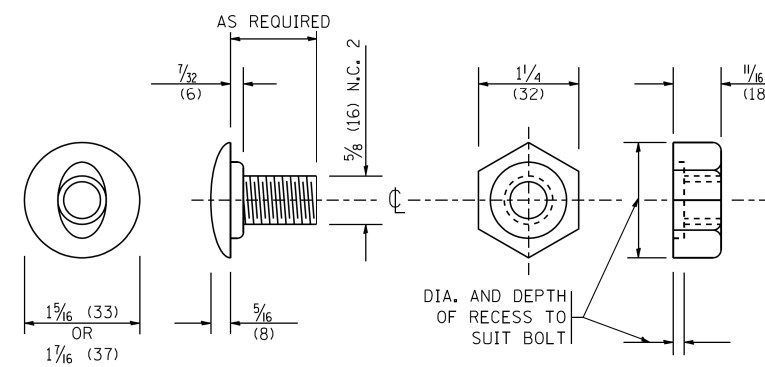
WOOD POST CONSTRUCTION



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

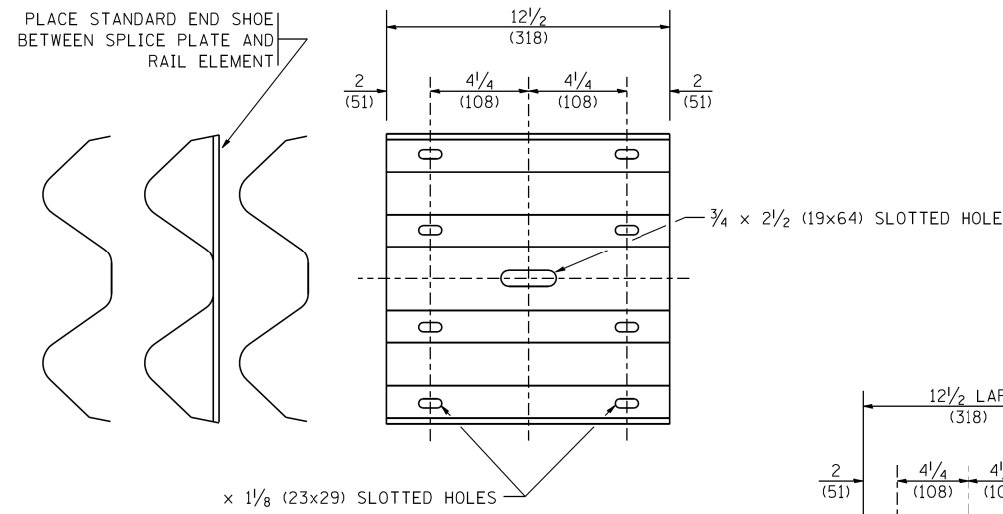
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 PROJECT CONTACT: #PROJECT CONTACTS
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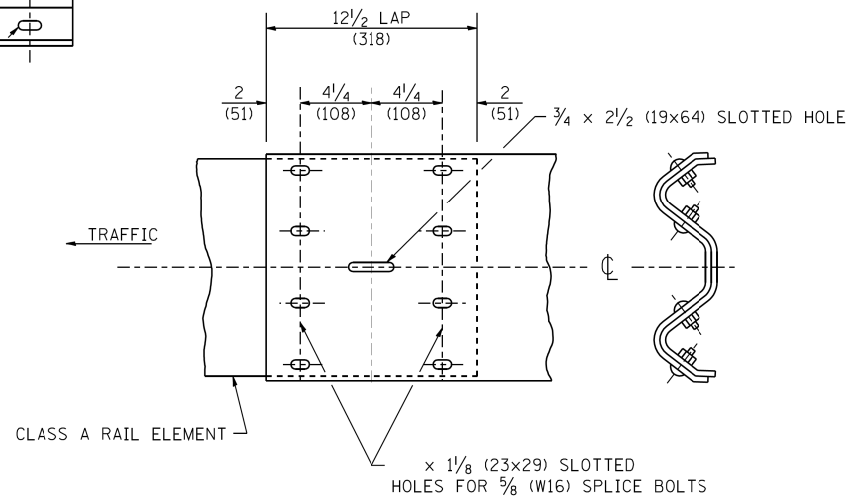
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL			
SCALE: NONE	SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.

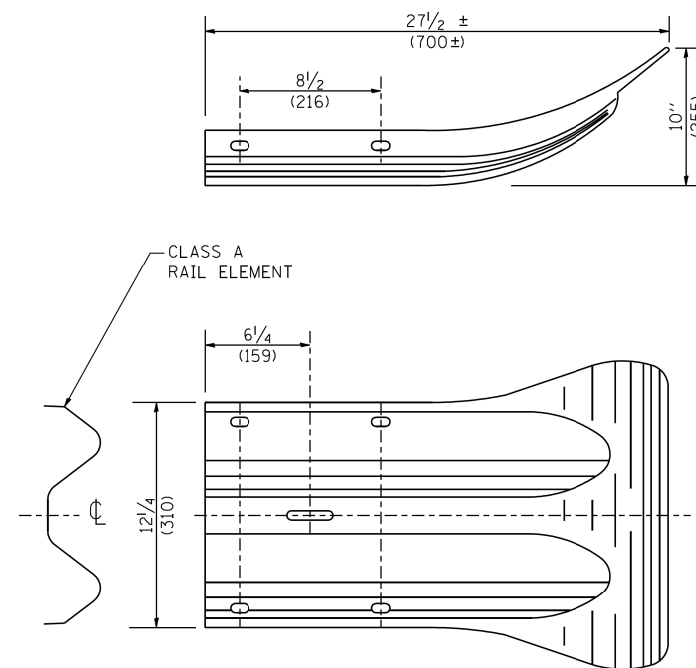
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BM-21		CONTRACT NO.	62C12	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



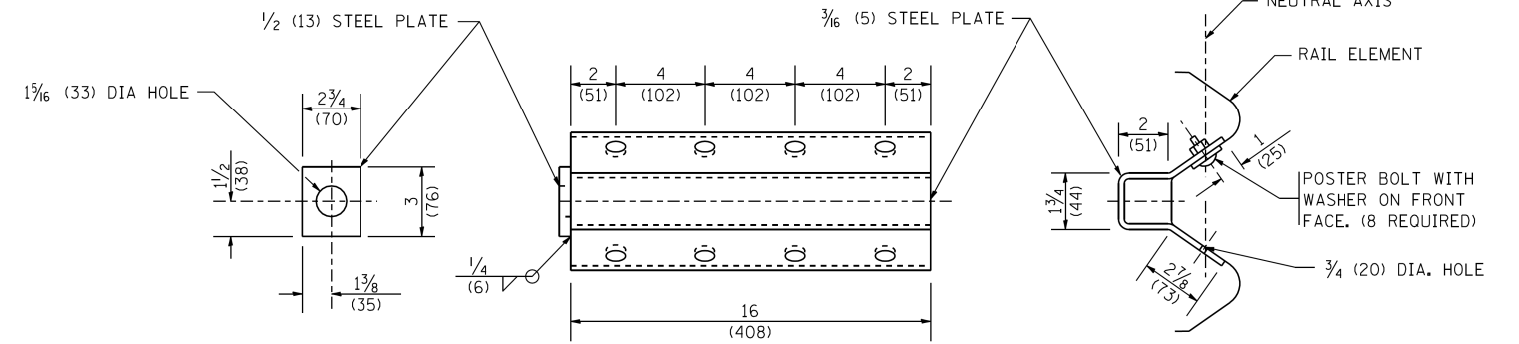
SPLICE PLATE



RAIL ELEMENT SPLICE



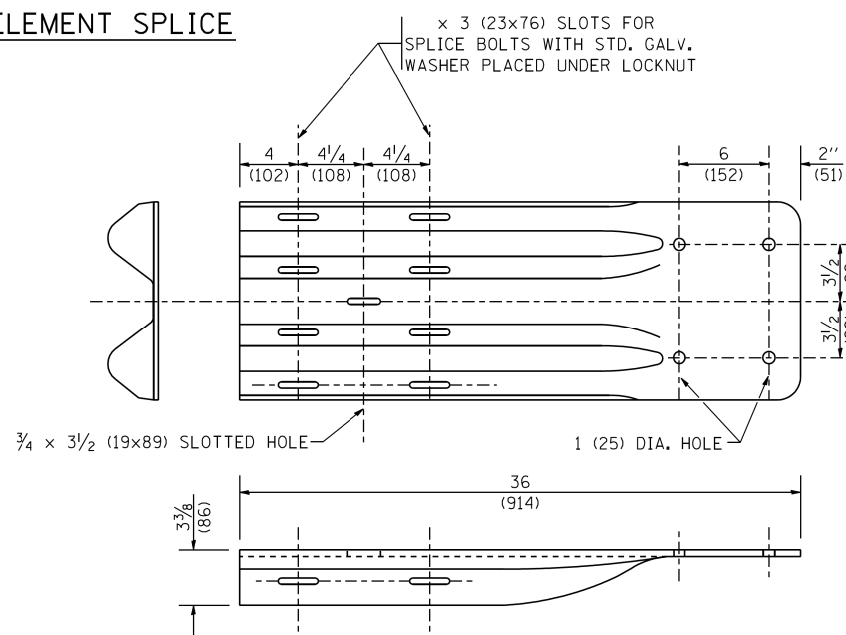
END SECTION



NOTE:

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

ANCHORE PLATE T DETAILS



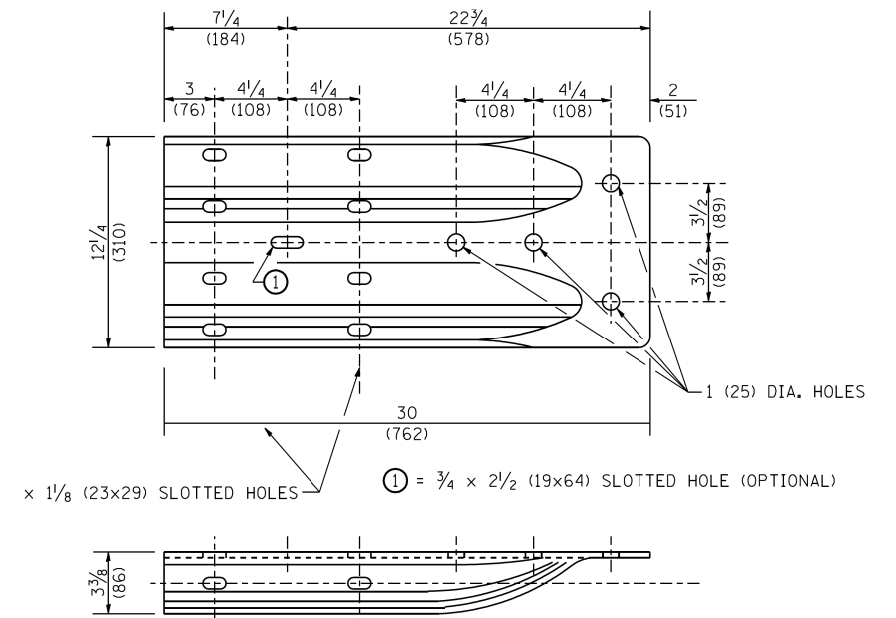
END SHOE

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.



ALTERNATE END SHOE

COMPANY NAME: #COMPANY NAME#
 PROJECT CONTACT: #PROJECT CONTACT#
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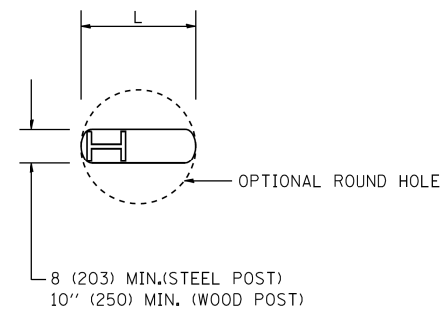
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		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

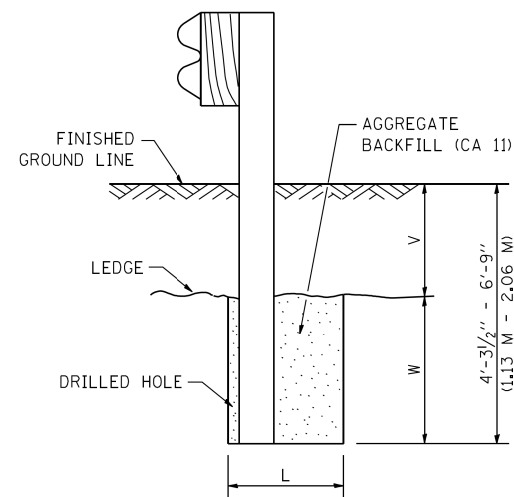
**REMOVE AND REERECT
 STEEL PLATE BEAM GUARDRAIL**

SCALE: NONE SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR		20	13
	BM-21	CONTRACT NO.	62C12	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



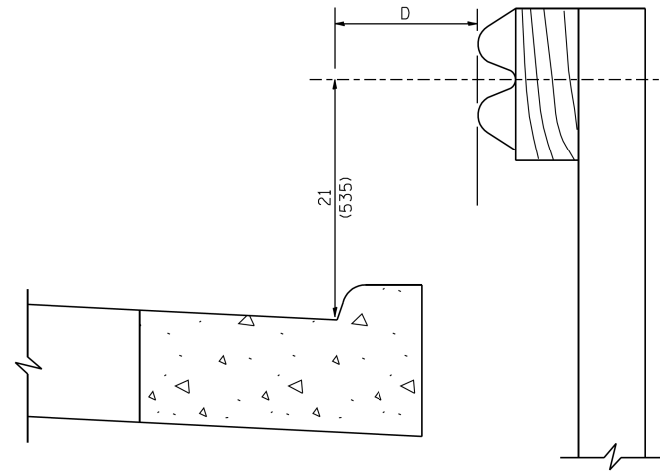
PLAN



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

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



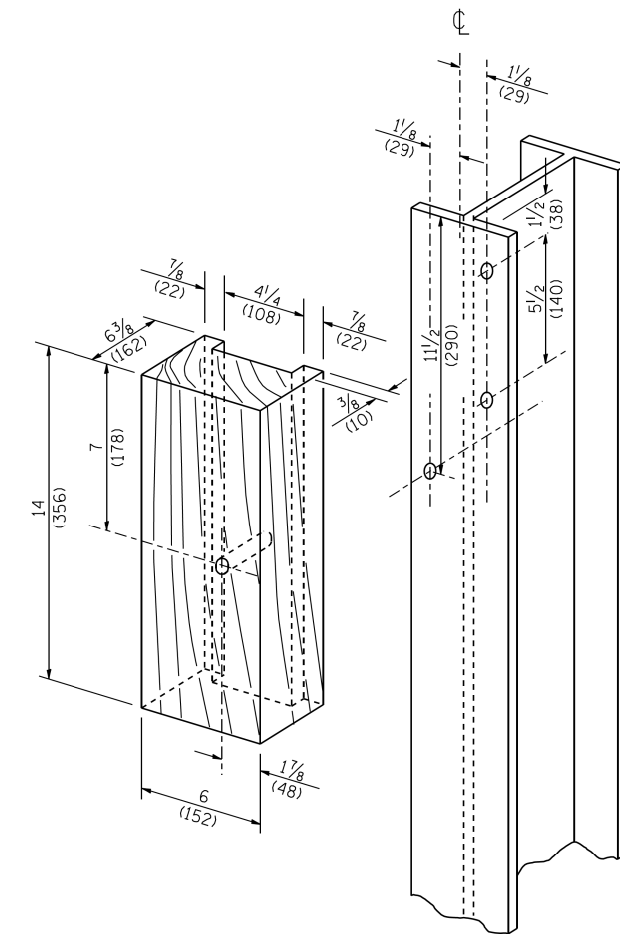
NOTE:

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.

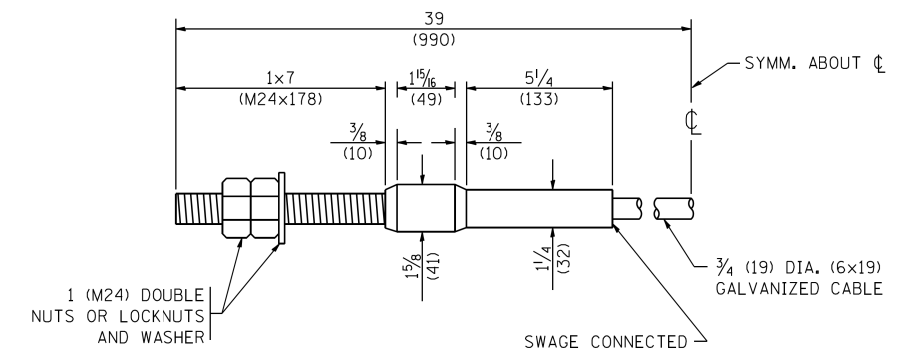
GUARDRAIL PLACED BEHIND CURB

(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

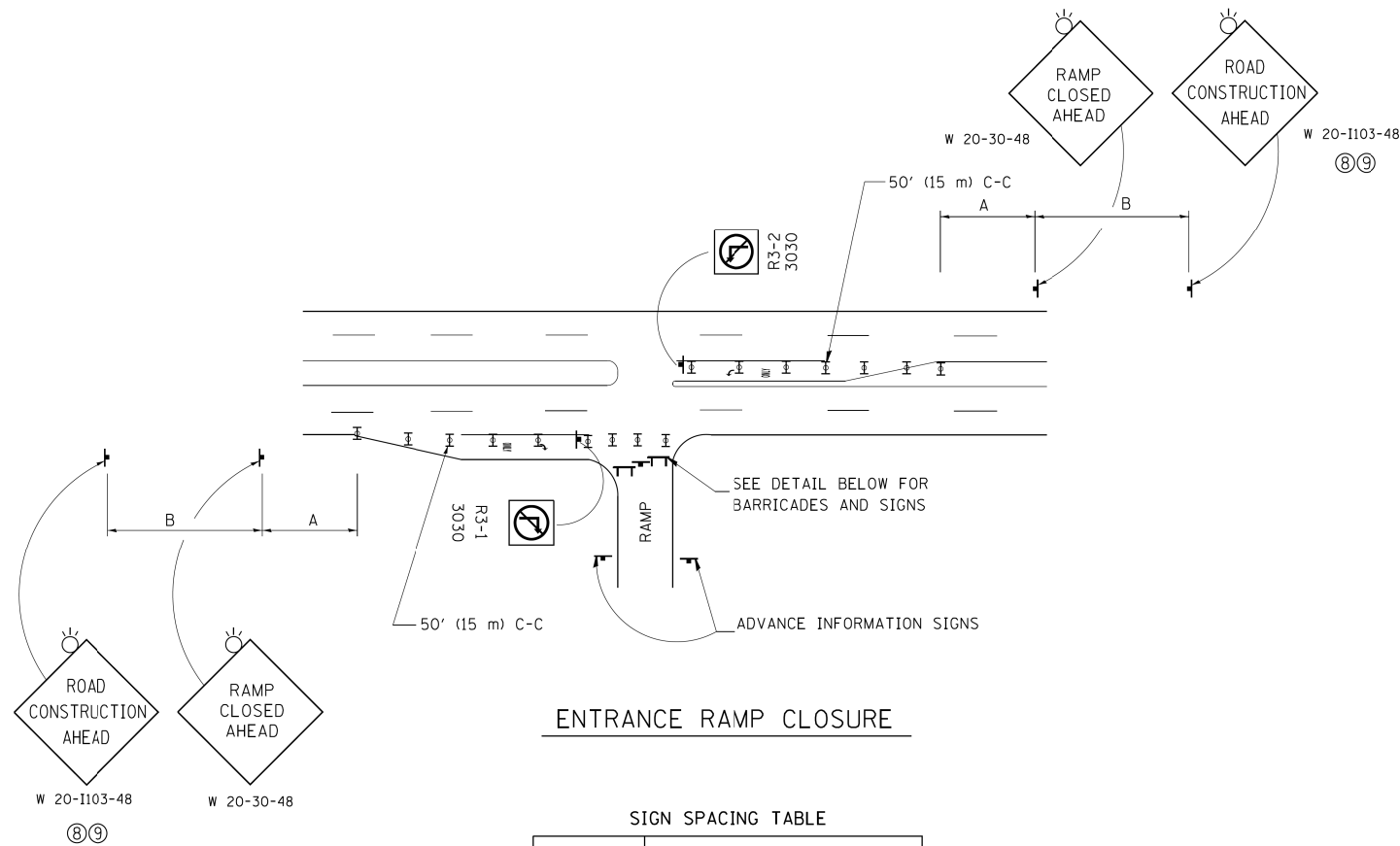
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL	
SCALE: NONE	SHEET NO. 4 OF 4 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR		20	14
BM-21		CONTRACT NO.	62C12	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

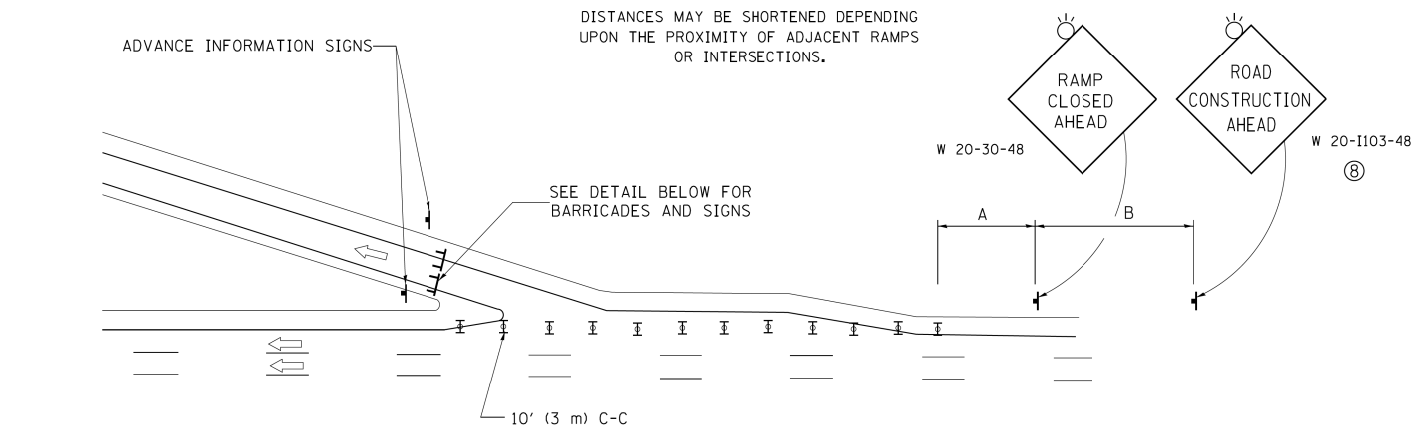


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

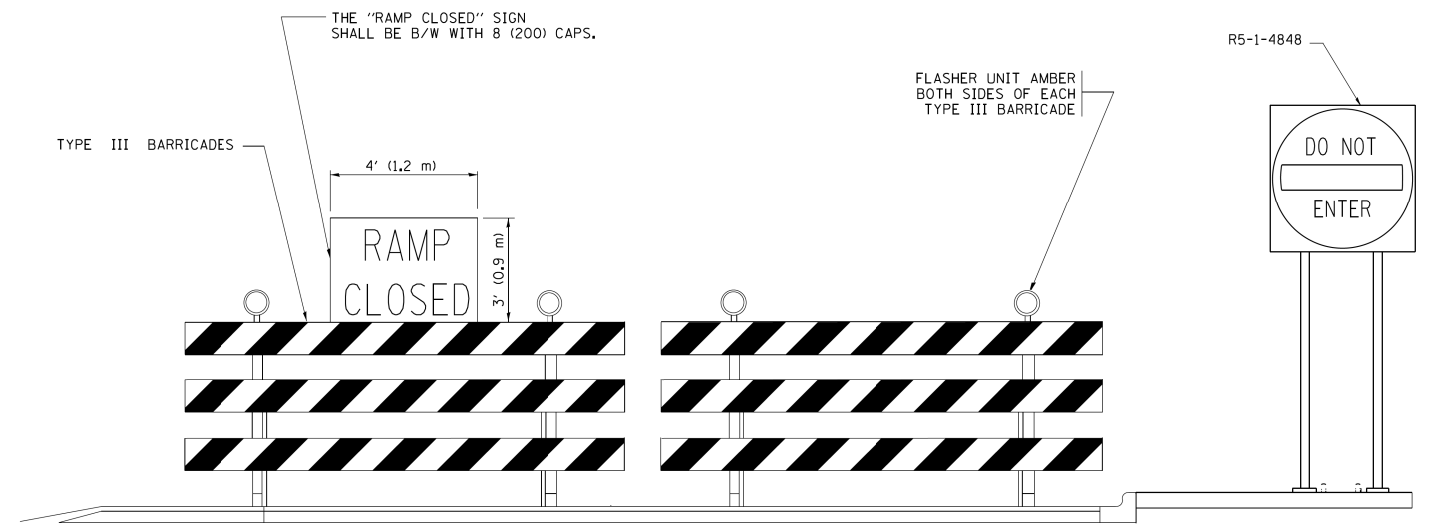
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

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



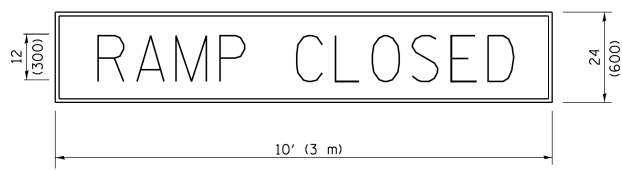
EXIT RAMP CLOSURE

- SYMBOLS**
- ⊥ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
 - ⊥ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



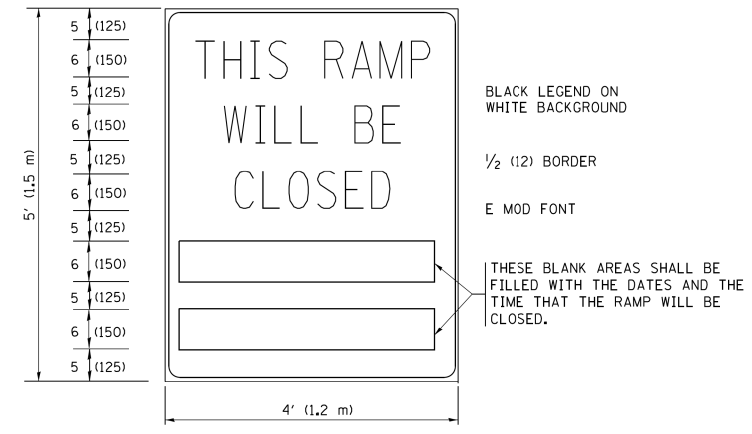
DETAIL FOR REQUIRED BARRICADES & SIGNS

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 STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 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.

COMPANY NAME: #COMPANY NAME#
 PROJECT CONTACT: #PROJECT CONTACT#
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 PEN TABLE: plc-table.tbl

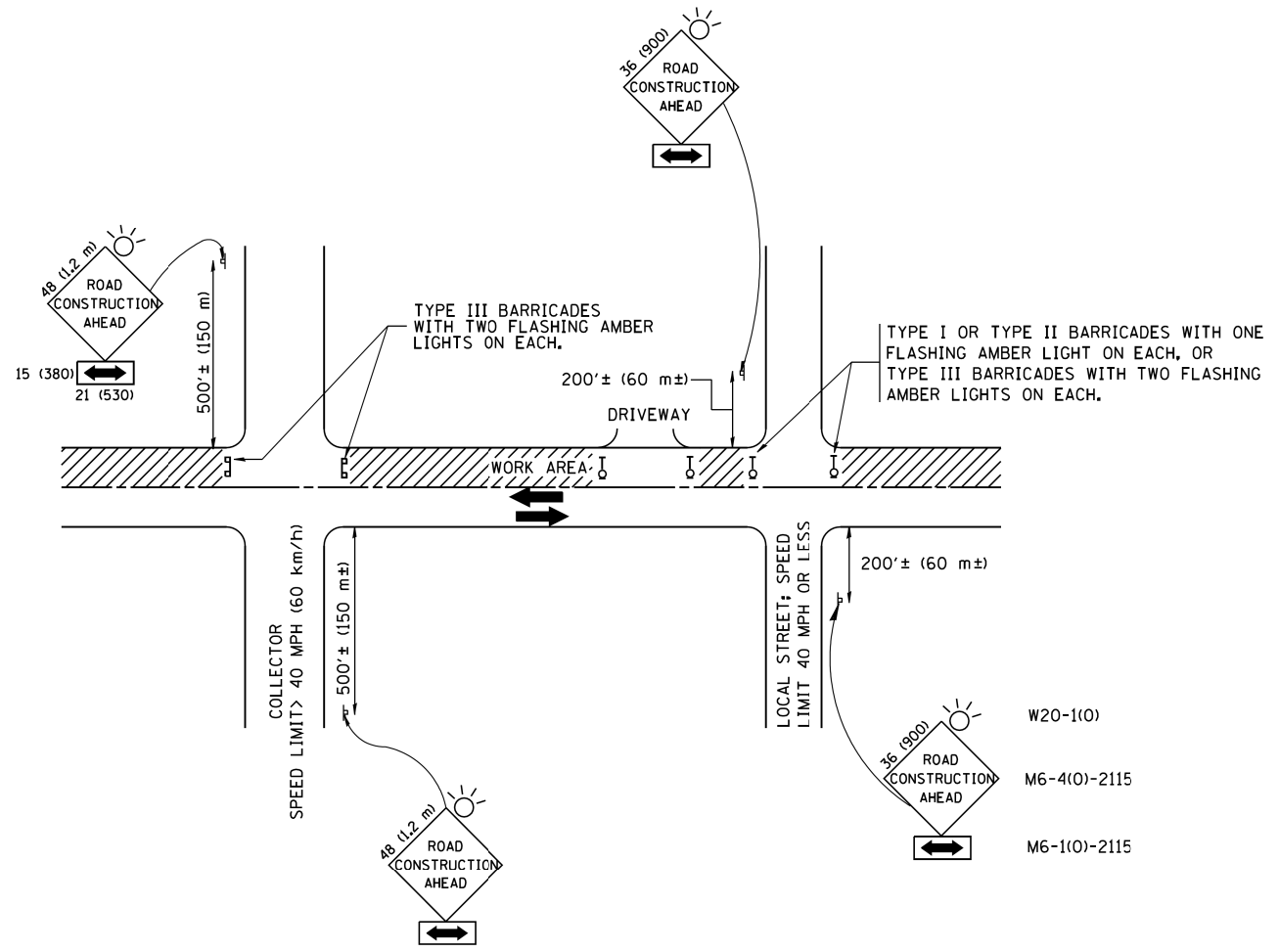
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	PLOT DATE = 7/8/2013	DATE - 02-83	REVISED - MD 06-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
 CLOSURE DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR		20	15
TC-08		CONTRACT NO.	62C12	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) 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.
 3. 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).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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 PROJECT CONTACT: #PROJECT CONTACT#
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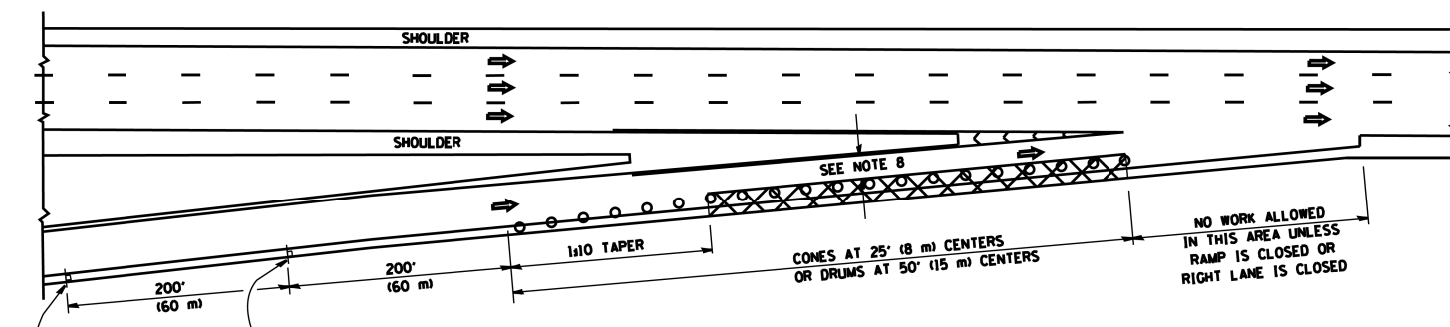
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

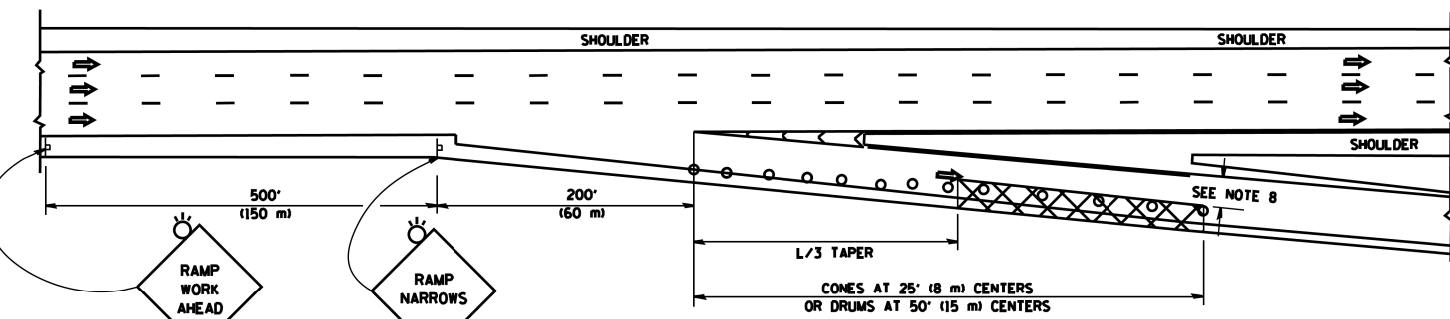
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR		20	17
TC-10		CONTRACT NO.	62C12	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

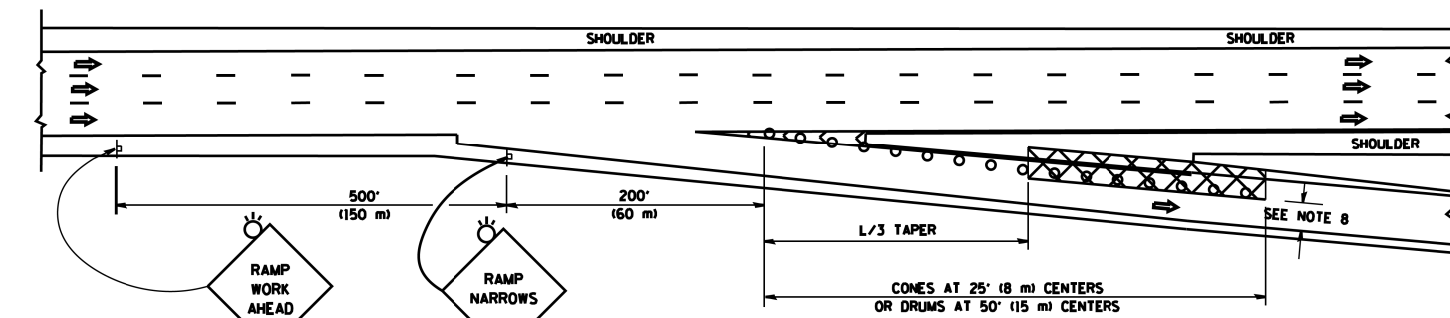
PARTIAL RAMP CLOSURE DETAILS



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 WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

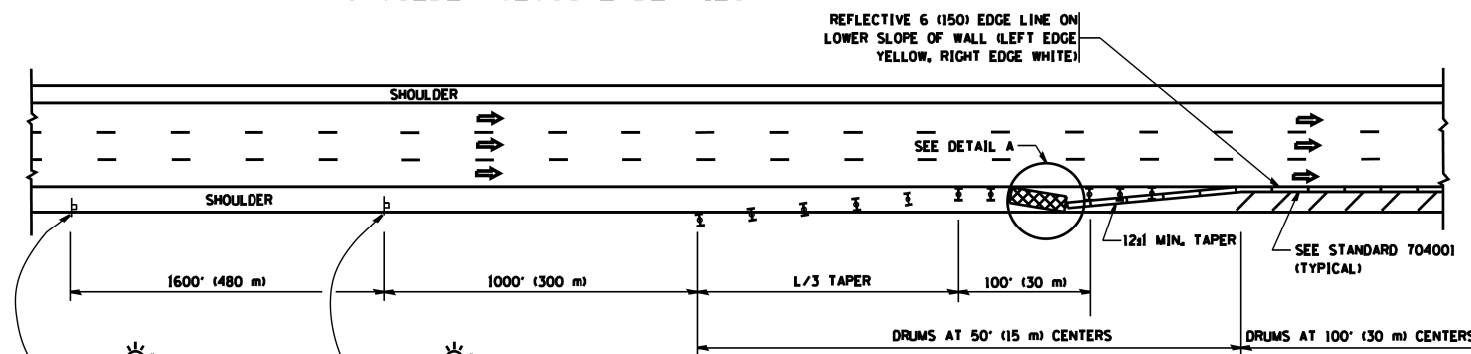
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

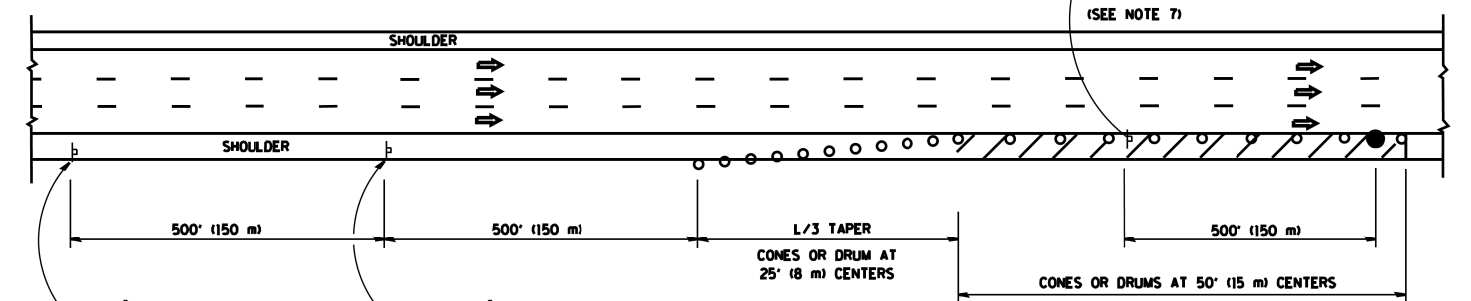
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH
	$L=0.65(WNS)$ $L=(WNS)$

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTIME CLOSURES.
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

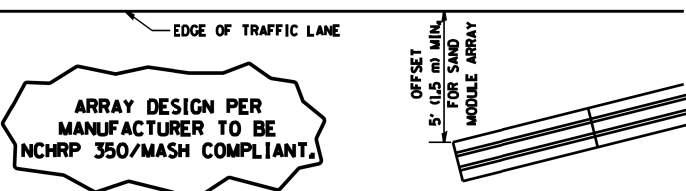


PERMANENT SHOULDER CLOSURE



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 ACTIVITY 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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PROJECT CONTACT: #PROJECT CONTACTS
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USER NAME = lejsa

DESIGNED -
DRAWN - D.W.S.
CHECKED -
DATE - 11-96

REVISED - J.A.F. 12-06
REVISED - S.P.B. 01-07
REVISED - S.P.B. 12-09
REVISED - M.D. 06-13

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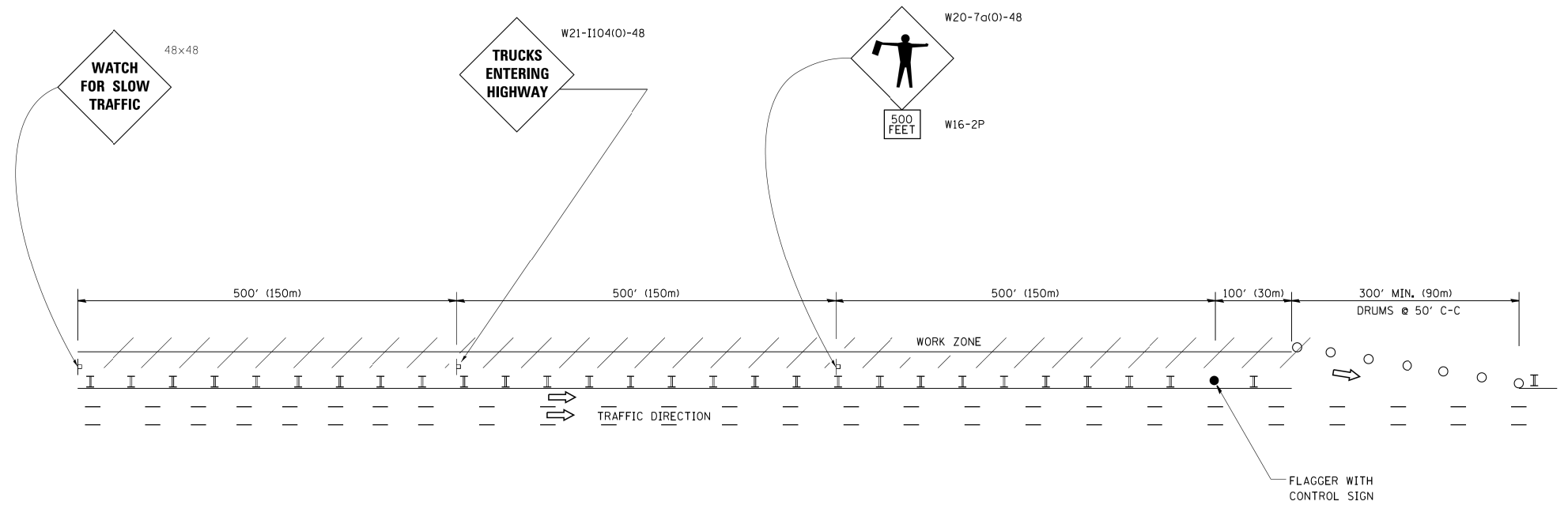
**TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

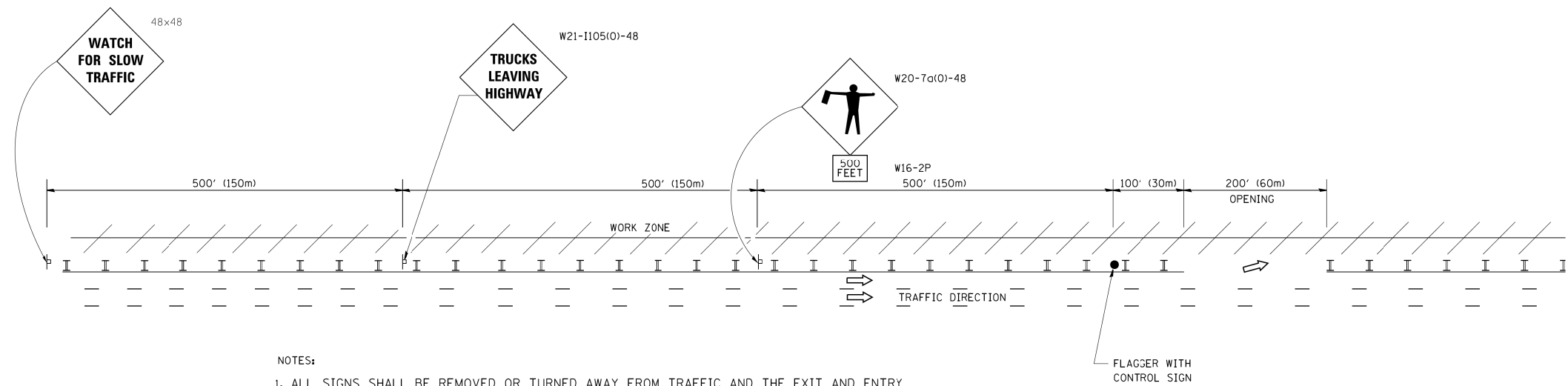
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR		20	18
	TC-17			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C12	

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

COMPANY NAME: #COMPANY NAMES
 PROJECT CONTACT: PROJECT CONTACTS
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DATE PLOTTED =		CHECKED -	REVISED - S.P.B. 12-09
FILE NAME =		DATE -	REVISED - M.D. 06-13
PLOT DRIVER =			
PEN TABLE =			

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 DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR		20	19
TC-18			CONTRACT NO. 62C12	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

COMPANY NAME: #COMPANY NAME#
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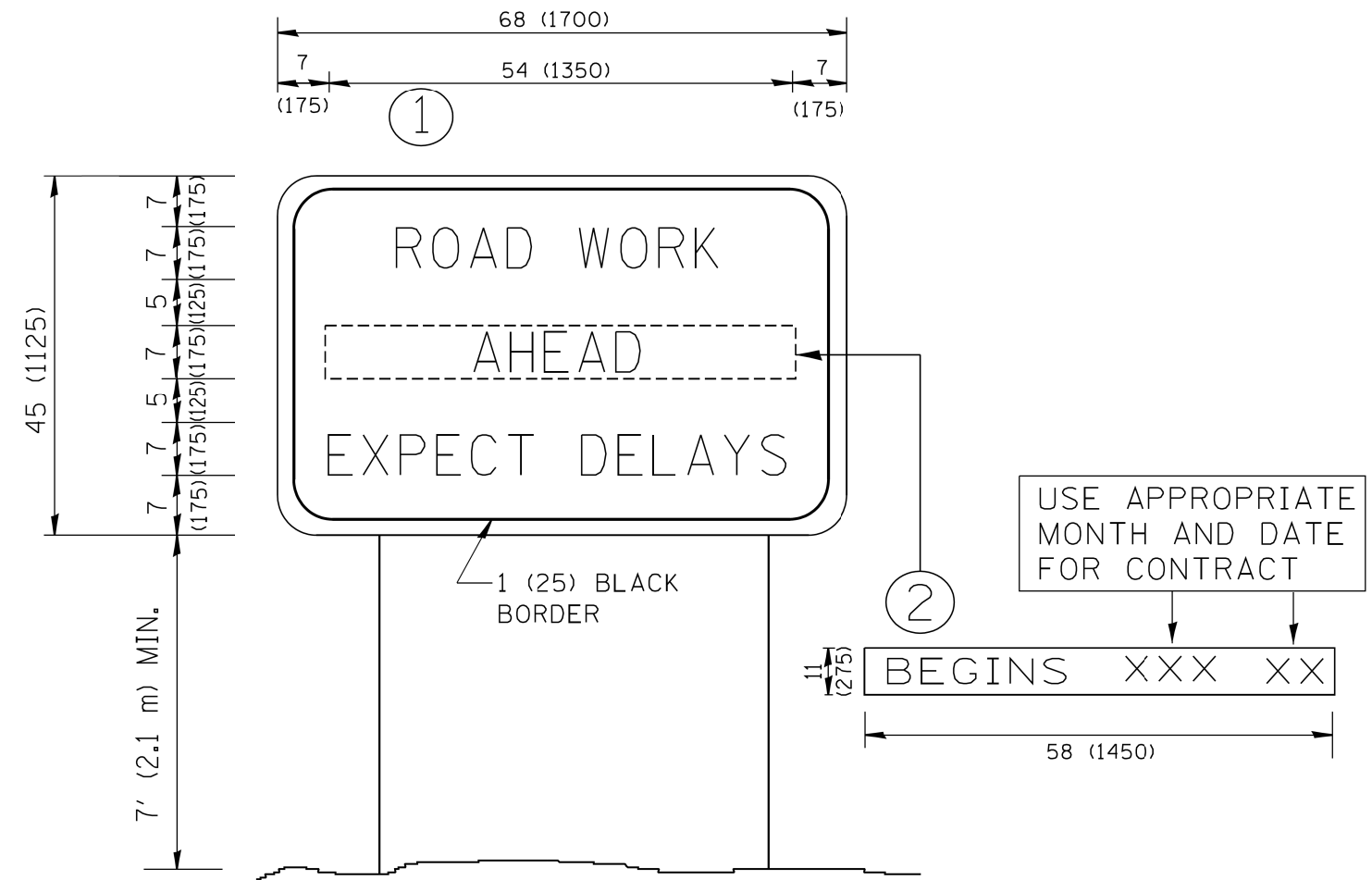
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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

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 DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
 INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-004GRR		20	20
TC-22		CONTRACT NO.	62C12	
FED. ROAD DIST. NO. 1 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.