

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

P.A.P. REL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018 CBI-GR	VARIOUS	21	1
CONTRACT NO. 62H09				

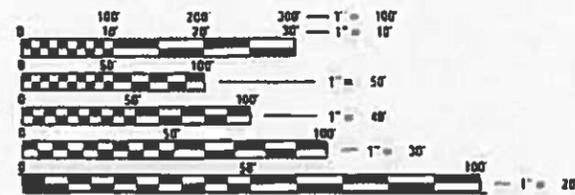
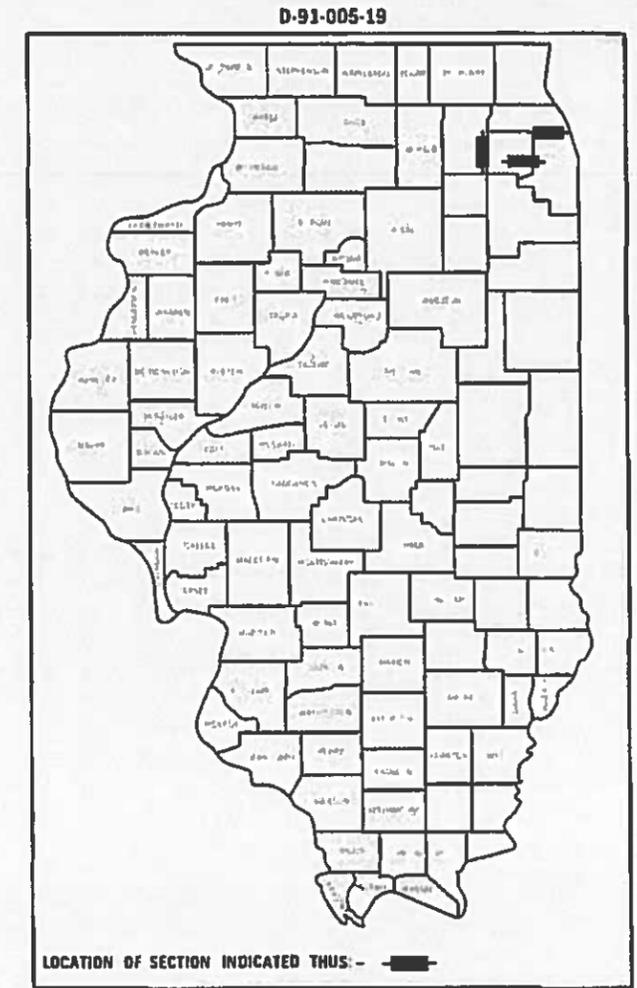
FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

VARIOUS ROUTES  
SECTION: 2018-081-GR  
PROJECT: HSIP-1YVZ(521)  
GUARDRAIL END-SECTION REPLACEMENTS (CENTRAL)  
COOK, DUPAGE, AND KANE COUNTIES

C-91-202-19

THIS PROJECT IS LOCATED IN:  
 THE CITY OF CHICAGO  
 THE CITY OF NAPERVILLE  
 THE VILLAGE OF BARTLETT  
 THE VILLAGE OF BIG ROCK  
 THE VILLAGE OF ELK GROVE VILLAGE  
 THE VILLAGE OF GILBERTS  
 THE VILLAGE OF HARDWOOD HEIGHTS  
 THE VILLAGE OF JUSTICE  
 THE VILLAGE OF LILY LAKE  
 THE VILLAGE OF MAPLE PARK  
 THE VILLAGE OF PINGREE GROVE  
 THE VILLAGE OF SOUTH ELGIN  
 THE VILLAGE OF SUGAR GROVE



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.

FOR LOCATION MAPS SEE SHEET NO. 5-7

J.U.L.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123  
 OR 811  
 C.U.A.N.  
 CHICAGO UTILITY ALERT NETWORK  
 (312) 744-7000

PROJECT ENGINEER: KARI SMITH (847) 705 4437  
PROJECT MANAGER: FAWAD AQUEEL (847) 705 4247

CONTRACT NO. 62H09

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBMITTED March 18, 2019  
Anthony J. Quigley  
 REGIONAL ENGINEER

May 10, 2019  
[Signature]  
 ENGINEER IN CHARGE - DESIGN AND ENVIRONMENT

May 19, 2019  
[Signature]  
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS



URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		0021	0021	0021			
				90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE			
			COOK COUNTY	DUPAGE COUNTY	KANE COUNTY				
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	28	28					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	259	41	14	204			
25000210	SEEDING, CLASS 2A	ACRE	0.06	0.01	0.01	0.04			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	4.61	0.76	0.26	3.59			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	4.61	0.76	0.26	3.59			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	4.61	0.76	0.26	3.59			
25100630	EROSION CONTROL BLANKET	SO YD	259	41	14	204			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5	5					
44004250	PAVED SHOULDER REMOVAL	SO YD	22	22					
48101200	AGGREGATE SHOULDERS, TYPE B	TON	80.4	21.6		58.8			
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	22	22					
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	25			25			
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1					
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	31	6		25			

URBAN

SUMMARY OF QUANTITIES				TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT			0021	0021	0021			
					90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE			
				COOK COUNTY	DUPAGE COUNTY	KANE COUNTY				
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	1	1	2				
63200310	GUARDRAIL REMOVAL	FOOT	1825	450	62.5	1312.5				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	2	2	2				
67100100	MOBILIZATION	L SUM	1	0.2	0.1	0.7				
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	0.2	0.1	0.7				
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.2	0.1	0.7				
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.2	0.1	0.7				
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	0.2	0.1	0.7				
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.2	0.1	0.7				
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.2	0.1	0.7				
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.2	0.1	0.7				





**PINGREE GROVE**  
 IL-72  
 • (20) E/B, RHS, JUST W/O RICHARD J. BROWN BLVD

**MAPLE PARK**  
 IL-47  
 • (22) S/B, RHS, 0.2 MILE S/O RAMM ROAD

**LILY LAKE**  
 IL-47  
 • (23) S/B, RHS, 0.1 MILE N/O READ ROAD

**BIG ROCK**  
 US-30  
 • (2) W/B, RHS, 1.1 MILE W/O RHODES ST  
 • (3) W/B, RHS, 1.5 MILE W/O RHODES ST  
 • (6) E/B, RHS, 1.25 MILE W/O RHODES ST

**BIG ROCK**  
 US-30  
 • (4) W/B, RHS, 0.3 MILE W/O SHAW ROAD  
 • (5) E/B, RHS, 0.2 MILE W/O SHAW ROAD

**BIG ROCK**  
 US-30  
 • (7) E/B, RHS, 1.5 MILE TO W/O DUGAN ROAD

**SUGAR GROVE**  
 US-30  
 • (8) E/B, RHS, 0.5 MILE W/O DUGAN ROAD

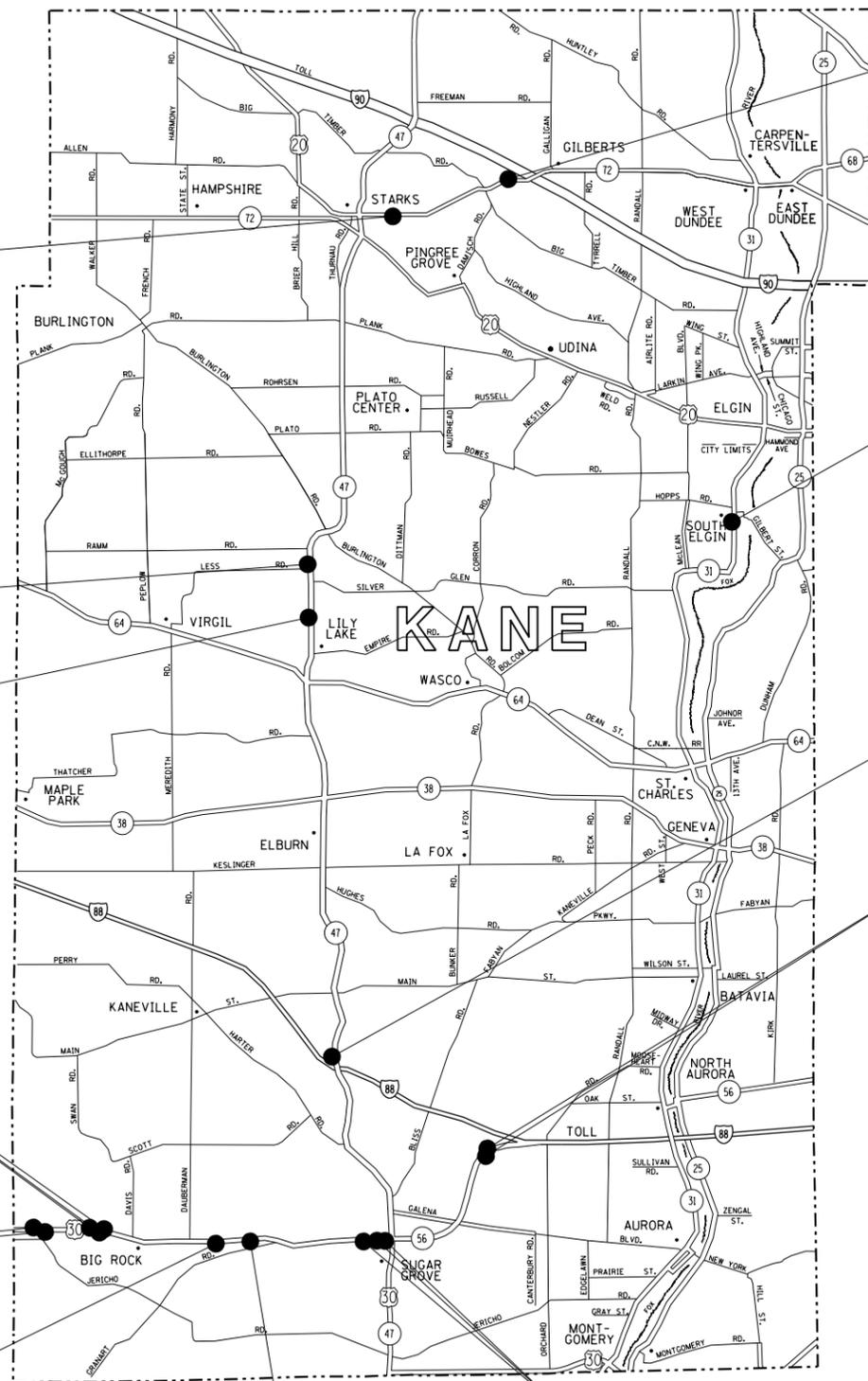
**SUGAR GROVE**  
 US-30  
 • (9) E/B, RHS, 0.3 MILE W/O IL-47  
 • (10) E/B, RHS, 0.1 MILE W/O IL-47  
 • (11) E/B, RHS, JUST W/O IL-47

**GILBERTS**  
 IL-72  
 • (21) W/B, RHS, 0.4 MILE E/O BIG TIMBER ROAD

**SOUTH ELGIN**  
 IL-31  
 • (1) SB, RHS, 0.25 MILE S/O OF HOPPS ST/ SPRING ST

**SUGAR GROVE**  
 IL-47  
 • (12) S/B, RHS, AT START OF EXIT RAMP TO W/B I-88

**SUGAR GROVE**  
 IL-56  
 • (13) E/B, RHS, 0.8 MILE E/O HANKES ROAD  
 • (14) W/B, RHS, 0.5 MILE E/O HANKES ROAD



NOTE:  
 • (00) = LOCATION NUMBER AS SHOWN ON PLAN SHEET AND SCHEDULE OF QUANTITIES

MODEL: Default  
 FILE: \\nas0101.pw.state.il.us\pub\p100519\CADDData\Design\100519-sh-detailed.dgn  
 PROJECT: 100519\CADDData\Design\100519-sh-detailed.dgn  
 USER: alshawa@kehy.com  
 DATE: 3/18/2019

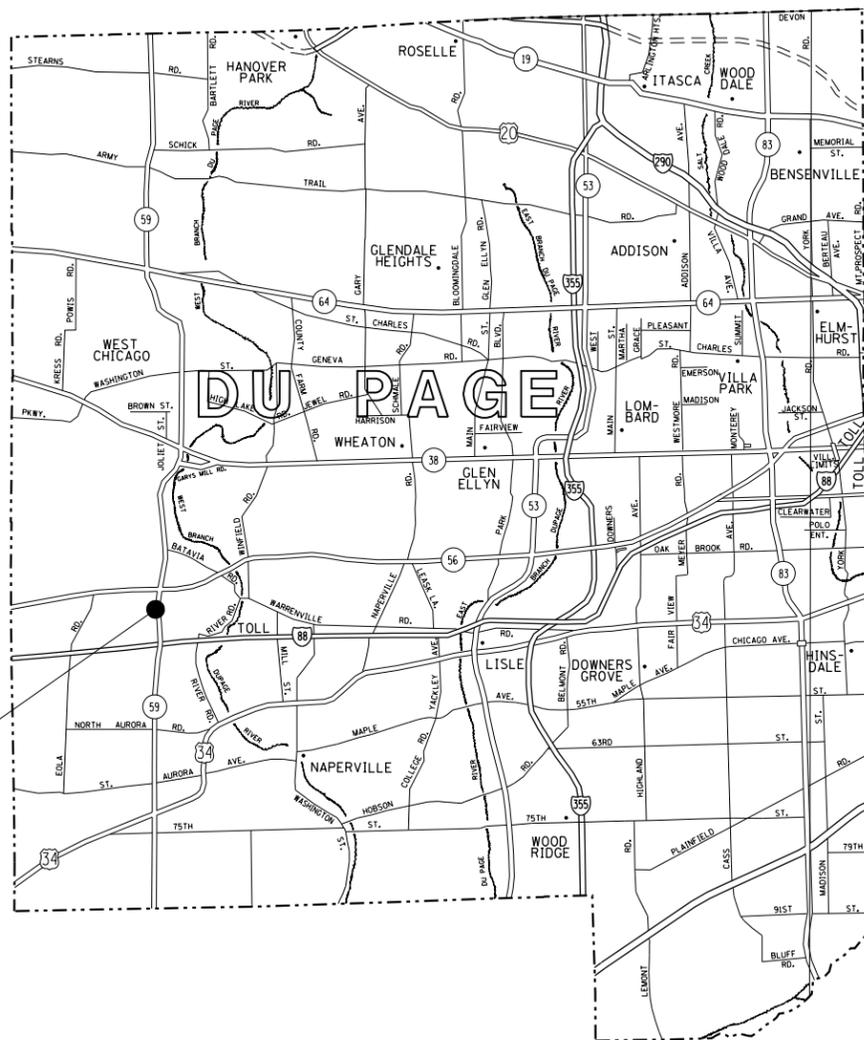
USER NAME = alshawa@kehy.com	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL END-SECTION REPLACEMENT (CENTRAL)  
 LOCATION MAP (KANE COUNTY)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-081-GR	VARIOUS	21	5
			CONTRACT NO. 62H09	
		ILLINOIS	FED. AID PROJECT	



NAPERVILLE  
 IL-59  
 • (18) S/B, RHS, 0.3 MILE N/O FERRY ROAD

NOTE:  
 • (00) = LOCATION NUMBER AS SHOWN ON PLAN SHEET  
 AND SCHEDULE OF QUANTITIES

MODEL: Default  
 FILE: h:\m1812\_2018\planroom\dat\illinois.gov\PWIDOT\Documents\DOT\_Offices\District\_1\Projects\100519\CaddData\Design\100519\_sht-detailed.dgn

USER NAME = alshawabkehym	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL END-SECTION REPLACEMENT (CENTRAL)  
 LOCATION MAP (DUPAGE COUNTY)**

SCALE: SHEET OF SHEETS STA. TO STA.

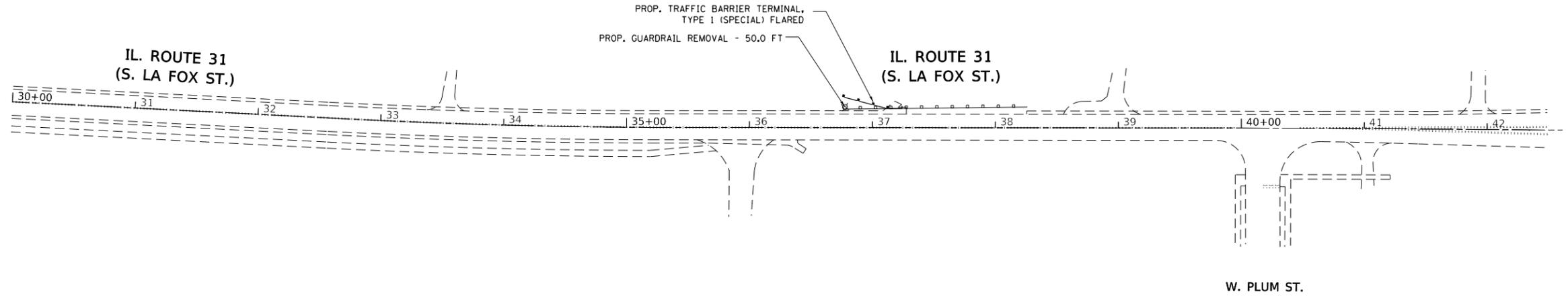
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-081-GR	VARIOUS	21	6
			CONTRACT NO. 62H09	
		ILLINOIS	FED. AID PROJECT	





LOCATION 1  
GR ID# 7809

ON SOUTHBOUND IL-31, RIGHT SIDE,  
0.25 MILES SOUTH OF HOPPS ST/SPRING RD



MODEL: Default  
 FILE: Model: Pls\publcamroom.dwg\Illinois.gov\PWIDOT\Documents\DOT\_Offices\District\_1\Projects\ID.00519\CADD\Drawn\Design\ID.00519-sh-rl-bar.dgn

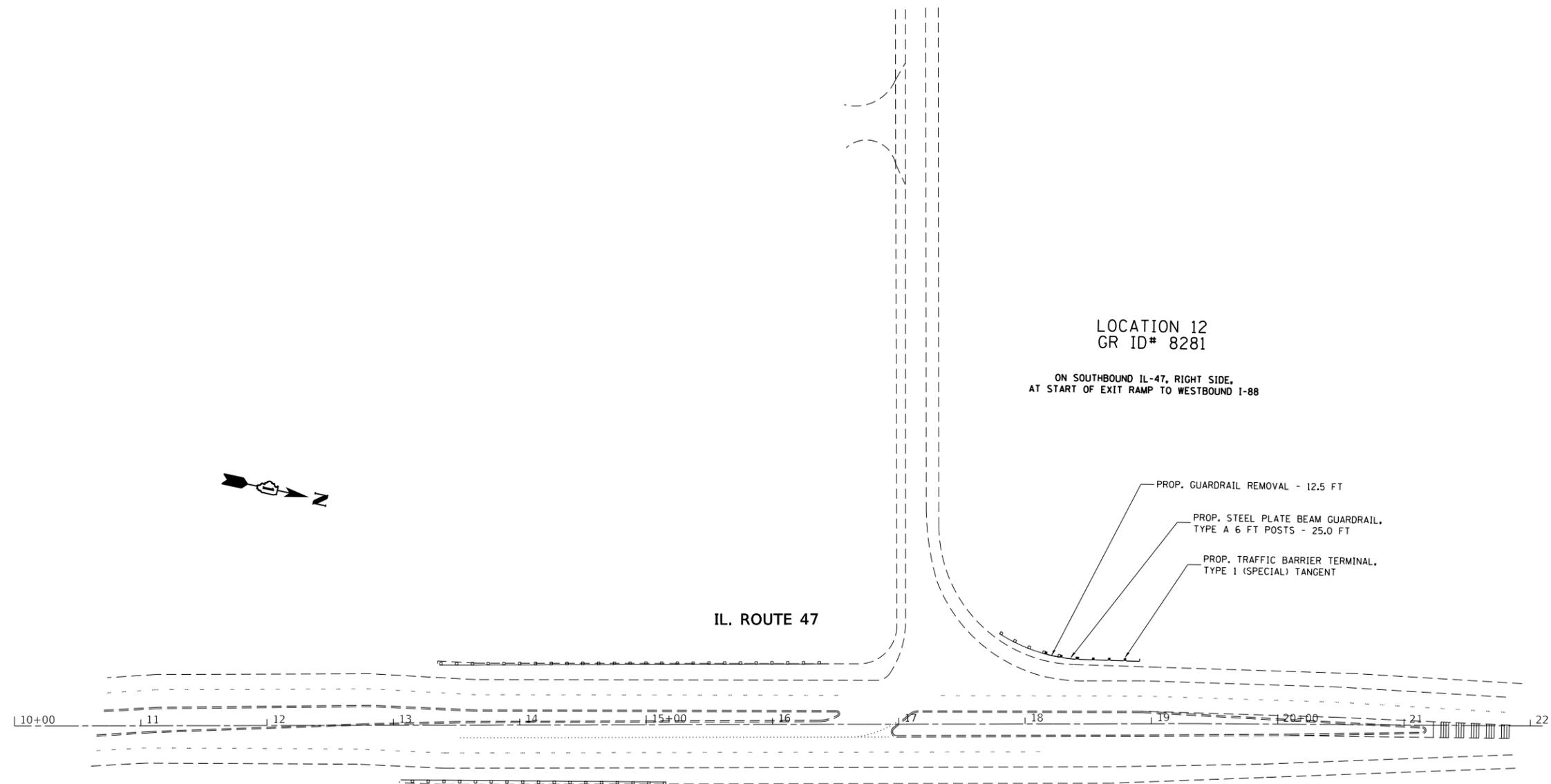
USER NAME = alshawabkehym	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL END-SECTION REPLACEMENT (CENTRAL)  
ROADWAY PLAN (LOCATION 1)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-081-GR	VARIOUS	21	9
			CONTRACT NO. 62H09	
		ILLINOIS	FED. AID PROJECT	



LOCATION 12  
GR ID# 8281

ON SOUTHBOUND IL-47, RIGHT SIDE,  
AT START OF EXIT RAMP TO WESTBOUND I-88

IL. ROUTE 47

PROP. GUARDRAIL REMOVAL - 12.5 FT

PROP. STEEL PLATE BEAM GUARDRAIL,  
TYPE A 6 FT POSTS - 25.0 FT

PROP. TRAFFIC BARRIER TERMINAL,  
TYPE 1 (SPECIAL) TANGENT

10+00 11 12 13 14 15+00 16 17 18 19 20+00 21 22

MODEL: Default  
FILE: \\nashville.pva\pub\baron.com\data\illinois.gov\RWIDOT\Documents\IDOT\_Offices\District\_1\Projects\ID 100519\CADD\Drawings\ID 100519\_sht-01-bar.dgn

USER NAME = alshawa@kehyim	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL END-SECTION REPLACEMENT (CENTRAL)  
ROADWAY PLAN (LOCATION 12)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-081-GR	VARIOUS	21	10
			CONTRACT NO. 62H09	
		ILLINOIS	FED. AID PROJECT	



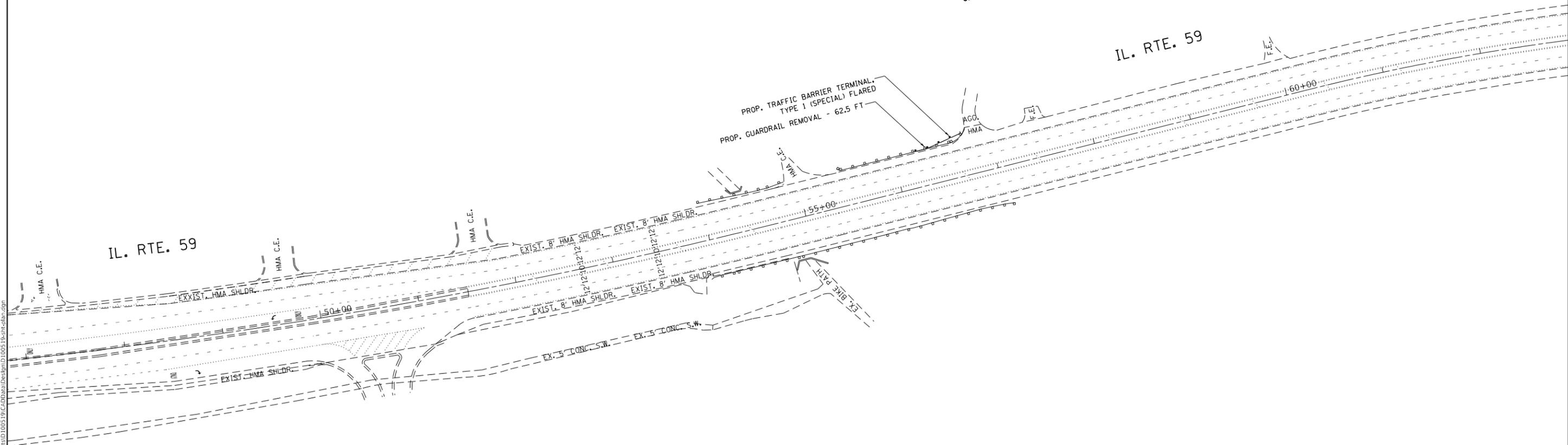
LOCATION 18  
GR ID# 5554  
ON SOUTHBOUND IL-59, RIGHT SIDE,  
0.3 MILES NORTH OF FERRY ROAD

IL. RTE. 59

PROP. TRAFFIC BARRIER TERMINAL,  
TYPE 1 (SPECIAL) FLARED  
PROP. GUARDRAIL REMOVAL - 62.5 FT

AGG. HMA

IL. RTE. 59



MODEL: Default  
 FILE: hma18.ctb  
 PROJECT: I:\Projects\2018\2018-081-GR\Drawings\DOT\Office\Drawings\1\Project\2018-081-GR\Drawings\DOT\Office\Drawings\1\Project\2018-081-GR.dwg

USER NAME = alshawa@kehy	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/18/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

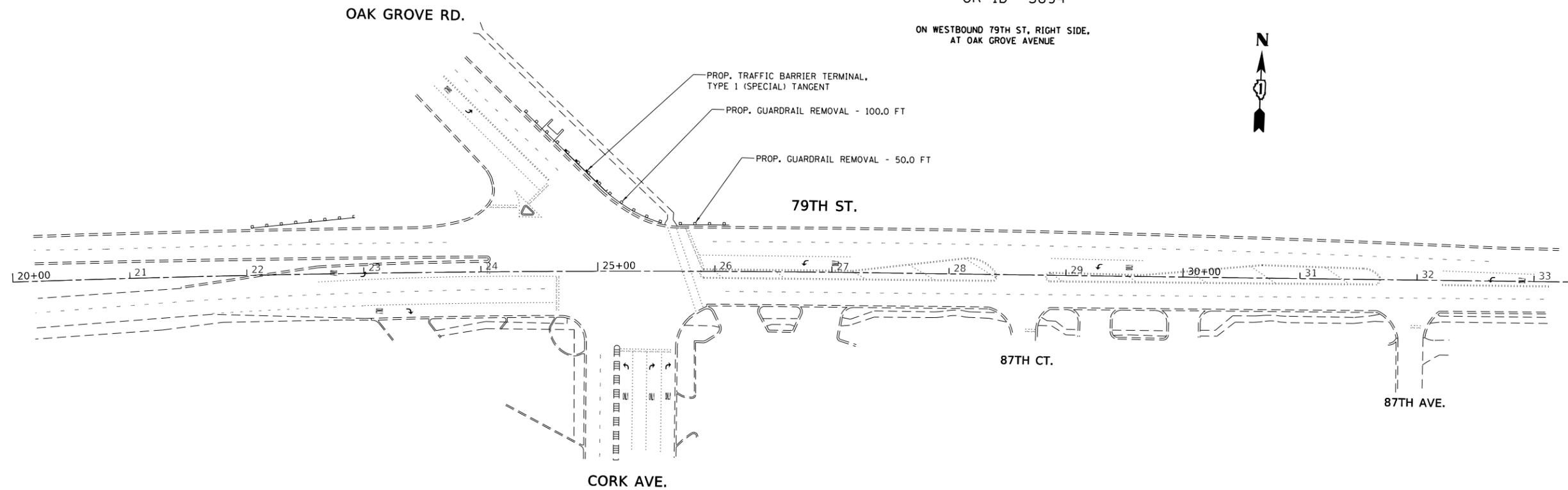
**GUARDRAIL END-SECTION REPLACEMENT (CENTRAL)  
ROADWAY PLAN (LOCATION 18)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-081-GR	VARIOUS	21	11
			CONTRACT NO. 62H09	
		ILLINOIS	FED. AID PROJECT	

LOCATION 19  
GR ID# 3894

ON WESTBOUND 79TH ST, RIGHT SIDE,  
AT OAK GROVE AVENUE



MODEL: Default  
 FILE: \\nashville.pva\pub\anr\room\dat\illinois.gov\PWIDOT\Documents\IDOT\_Offices\District\_1\Projects\ID 100519\CADD\Drawn\Design\ID 100519\_sht-e19a.dgn

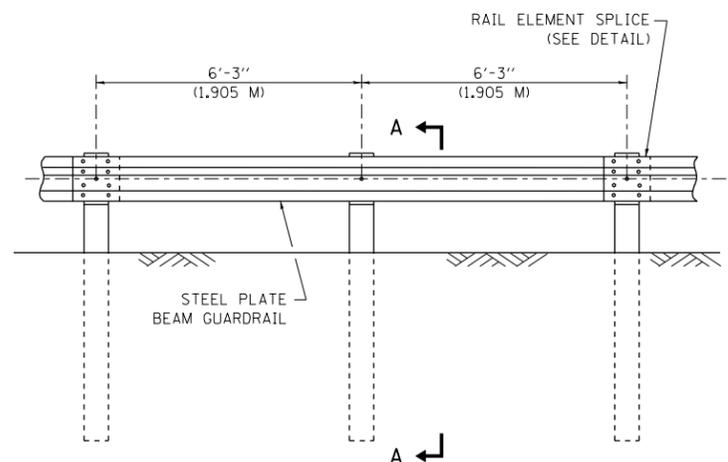
USER NAME = alshawa@kehyim	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL END-SECTION REPLACEMENT (CENTRAL)  
ROADWAY PLAN (LOCATION 19)**

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

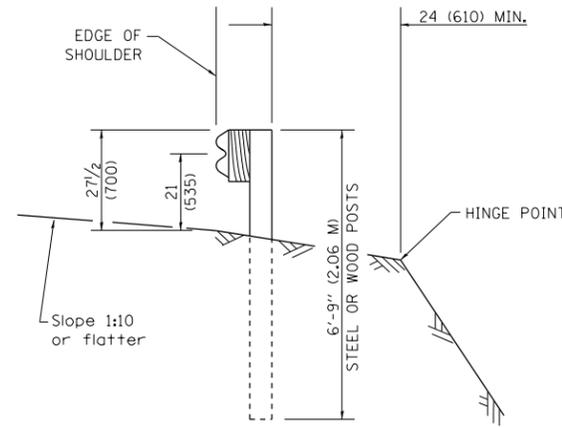
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2018-081-GR	VARIOUS	21	12
			CONTRACT NO. 62H09	
		ILLINOIS	FED. AID PROJECT	



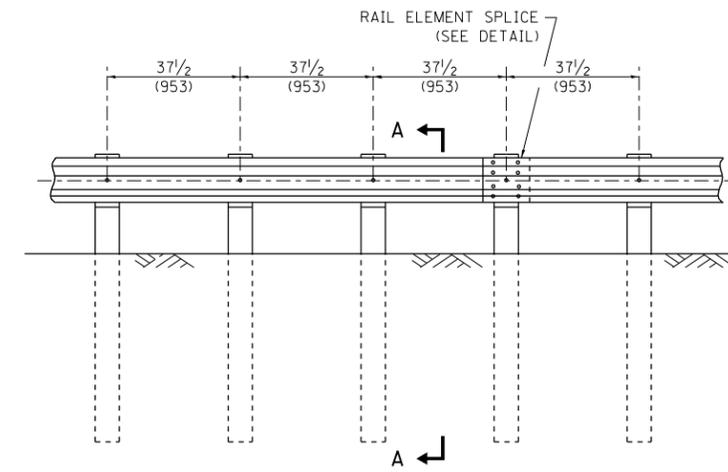
ELEVATION

**TYPE A**

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



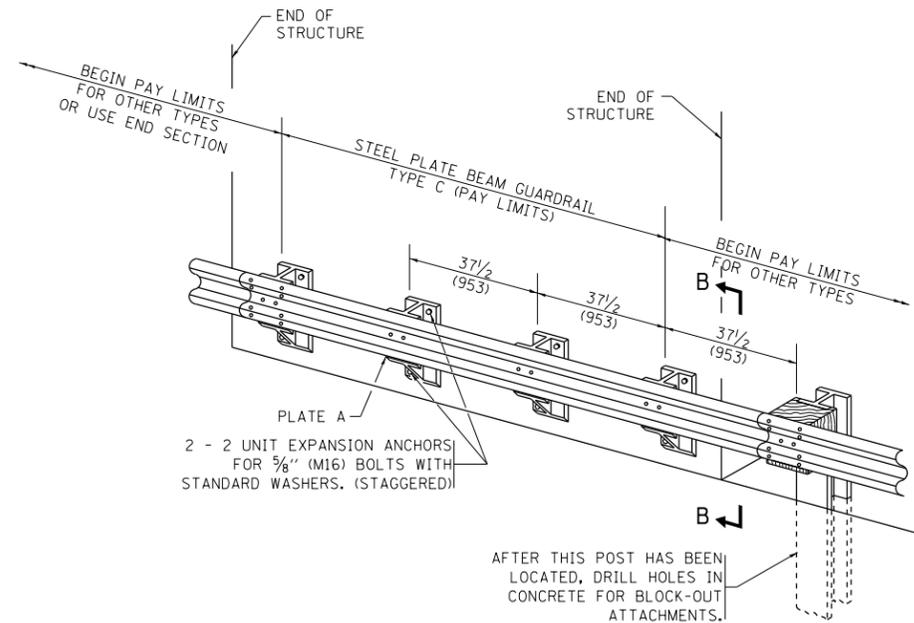
SECTION A-A



ELEVATION

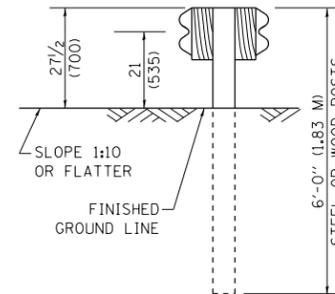
**TYPE A**

37 1/2 (953) CLOSED POST SPACING

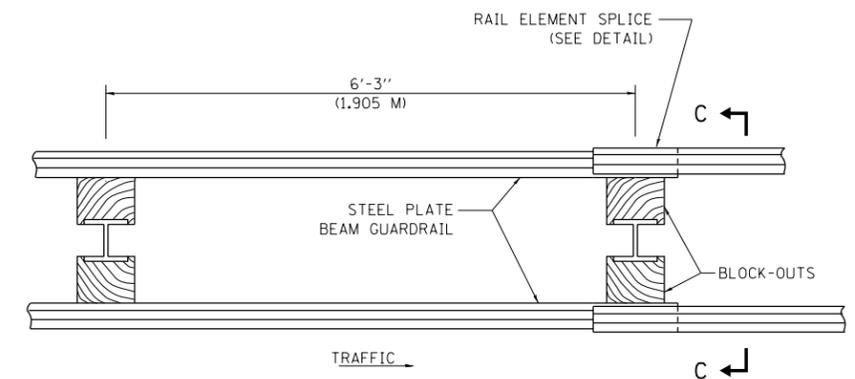


**TYPE C**

37 1/2 (953) BLOCK-OUT SPACING



SECTION C-C

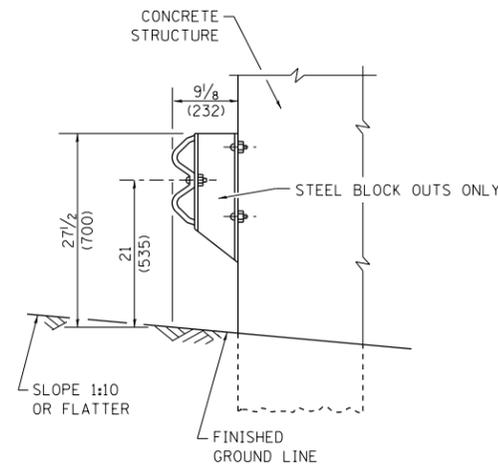


TRAFFIC

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.

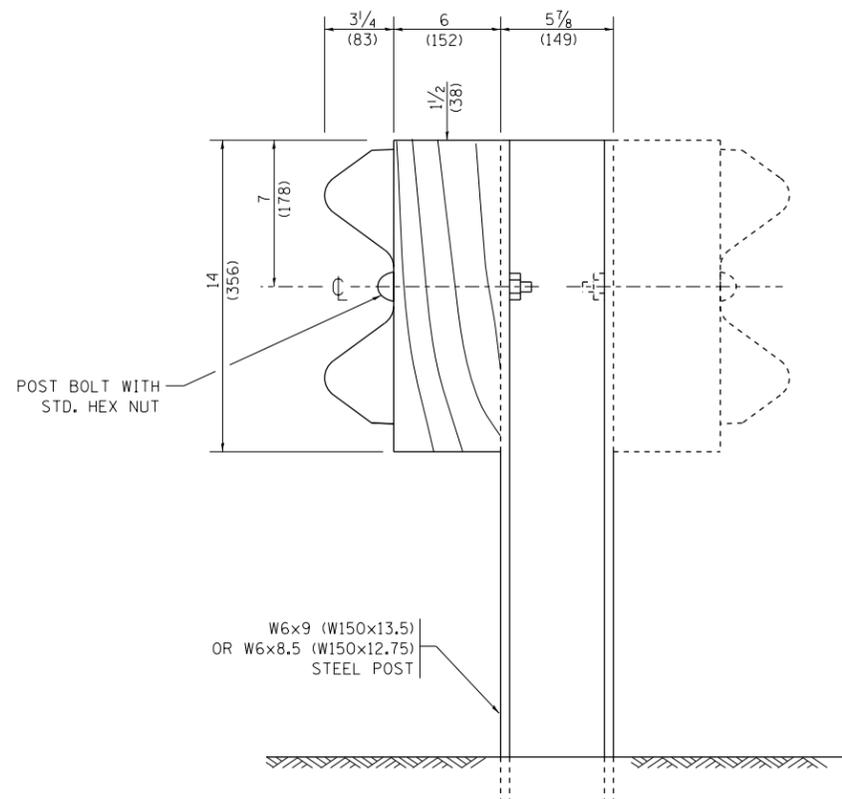
THIS DETAIL IS APPLICABLE TO THE GUARDRAIL SYSTEM USED PRIOR TO JANUARY 1, 2007. FOR DETAILS ON THE MIDWEST GUARDRAIL SYSTEM, SEE STANDARD 630001.

FILE NAME =	USER NAME = alshawabkehym	DESIGNED -	REVISED - 10-31-06
pw:\planroom.dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\010051\DRAWING\Design\DistStd.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

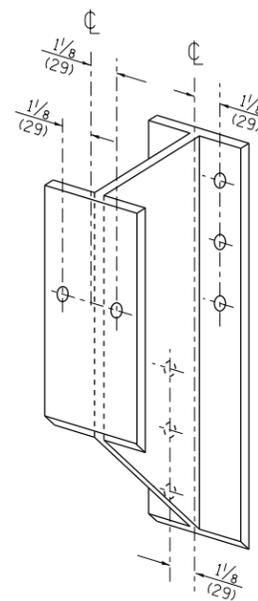
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL</b>			
SCALE: NONE	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.

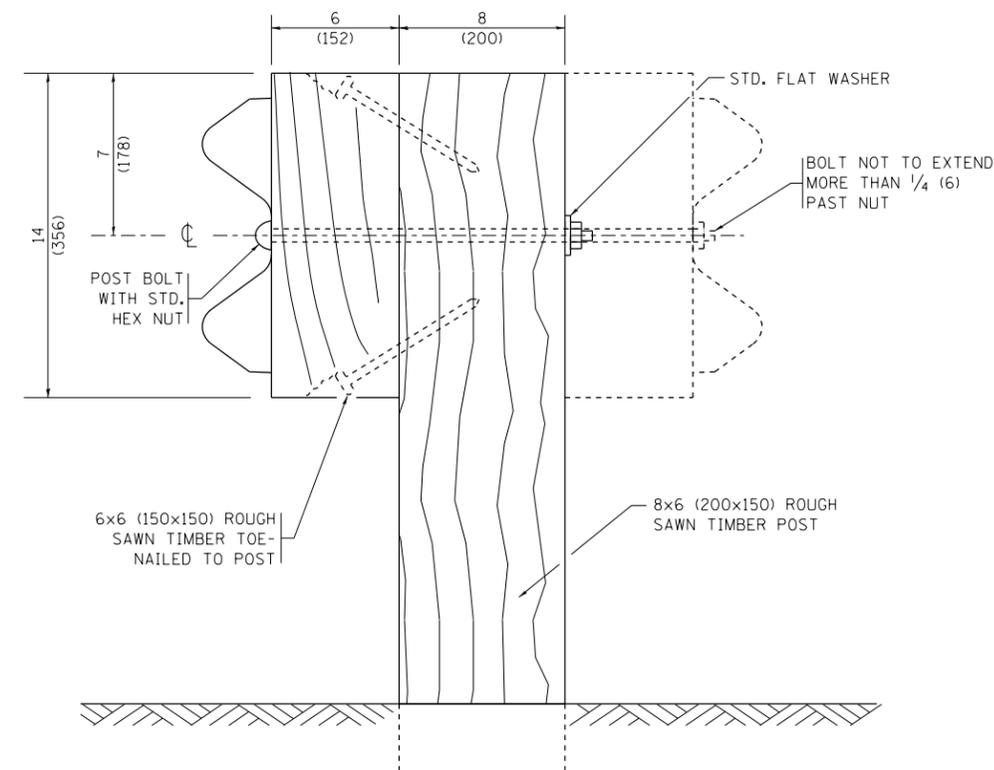
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-081-GR	VARIOUS	21	13
	<b>BM-21</b>		<b>CONTRACT NO. 62H09</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



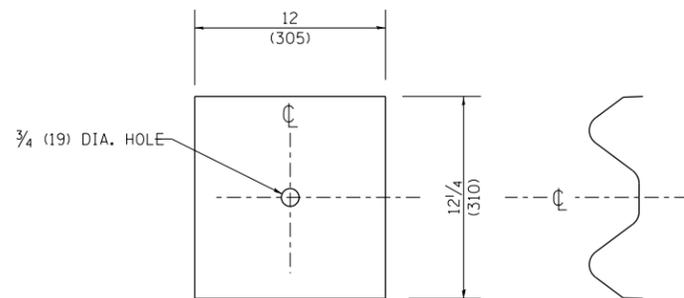
**STEEL POST CONSTRUCTION**



**STEEL BLOCK-OUT DETAIL**



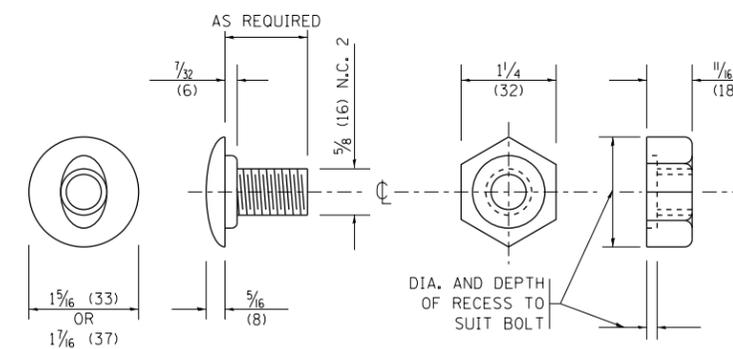
**WOOD POST CONSTRUCTION**



**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**



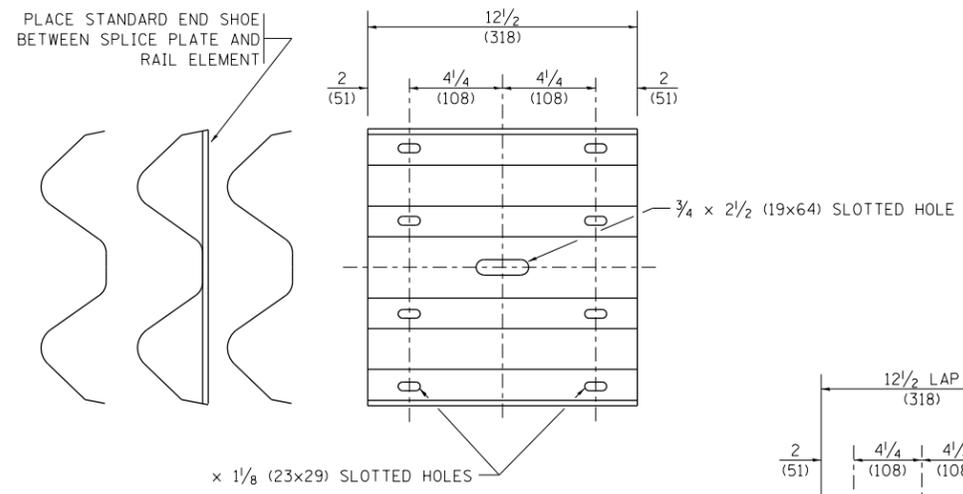
**POST OR SPLICE BOLT & NUT**

FILE NAME =	USER NAME = alshwabkehym	DESIGNED -	REVISED - 10-31-06
pw:\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\010051\DRAWING\Design\DistStd.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

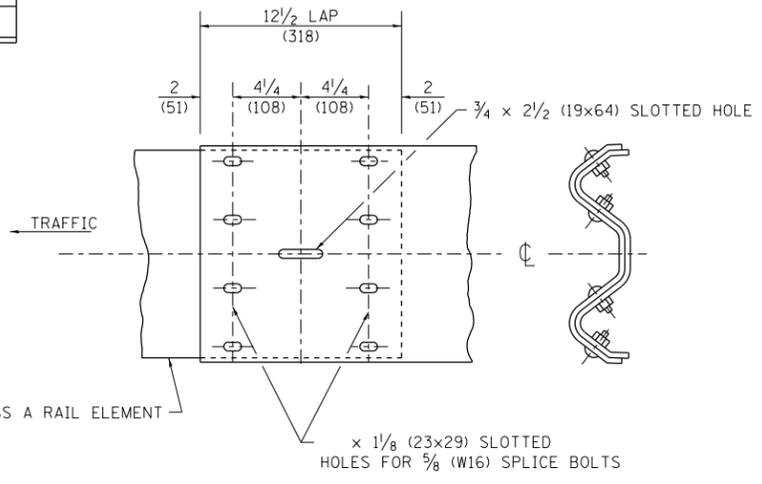
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

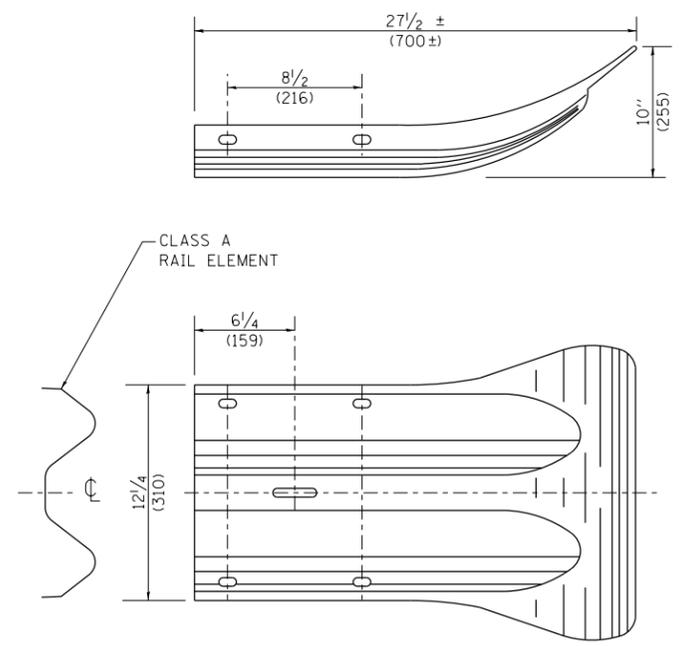
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-081-GR	VARIOUS	21	14
<b>BM-21</b>		<b>CONTRACT NO. 62H09</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



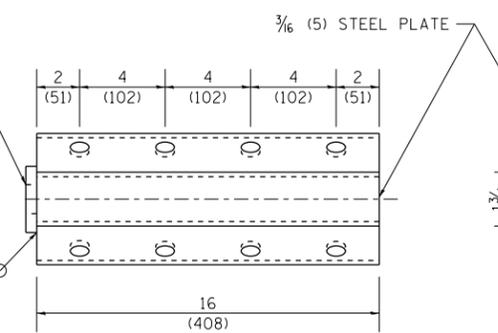
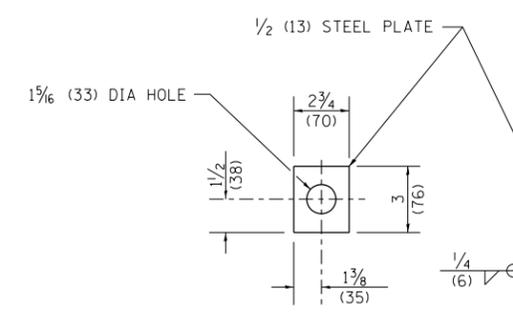
**SPLICE PLATE**



**RAIL ELEMENT SPLICE**



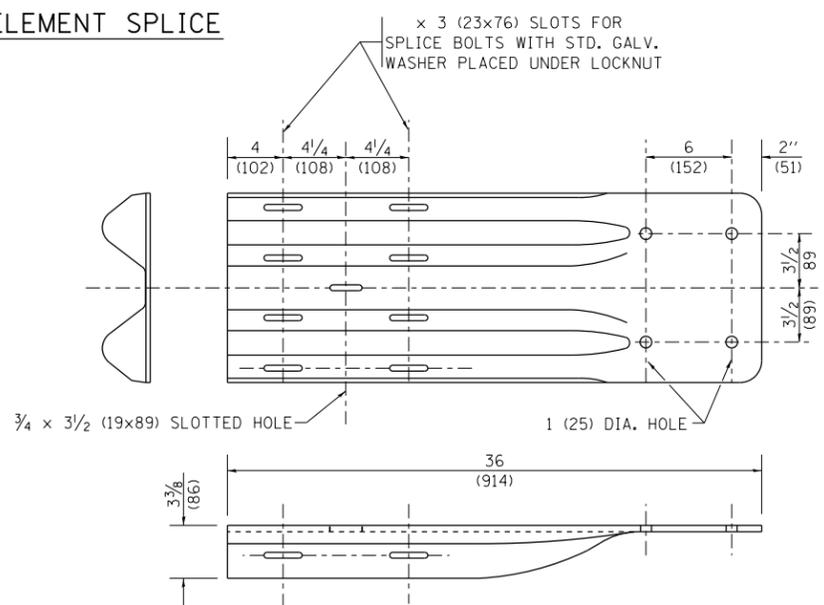
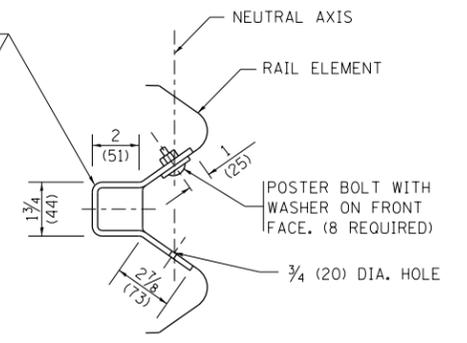
**END SECTION**



**NOTE:**

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

**ANCHORE PLATE T DETAILS**



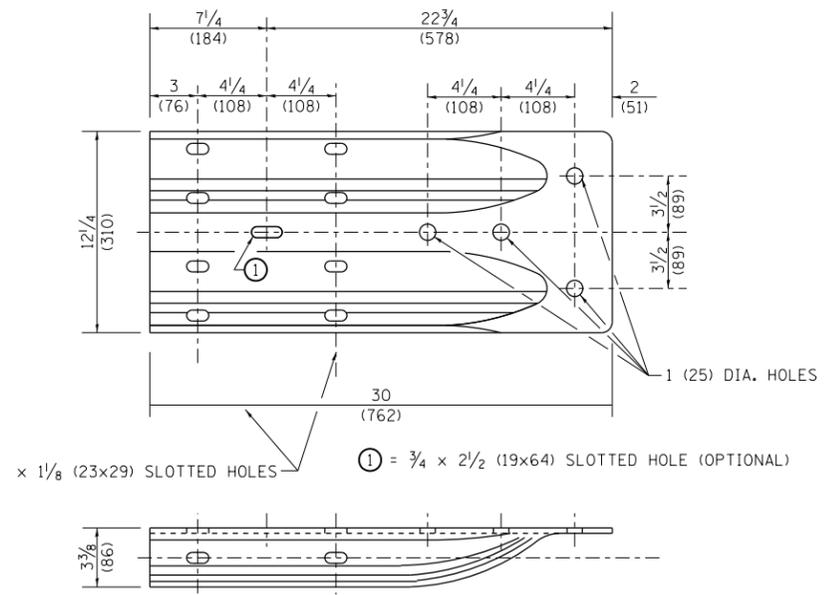
**END SHOE**

**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**

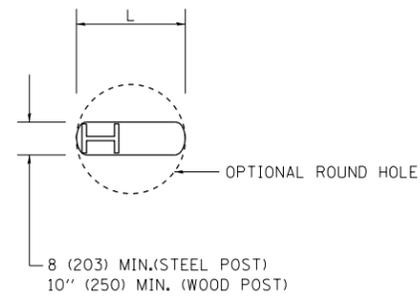
FILE NAME =	USER NAME = alshawabkehym	DESIGNED -	REVISED - 10-31-06
pw:\planroom.dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\010051\Drawings\Design\DistStd.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

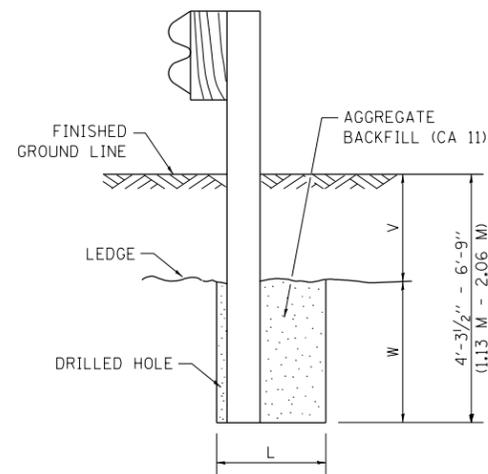
**REMOVE AND REERECT  
STEEL PLATE BEAM GUARDRAIL**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-081-GR	VARIOUS	21	15
	<b>BM-21</b>		<b>CONTRACT NO. 62H09</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



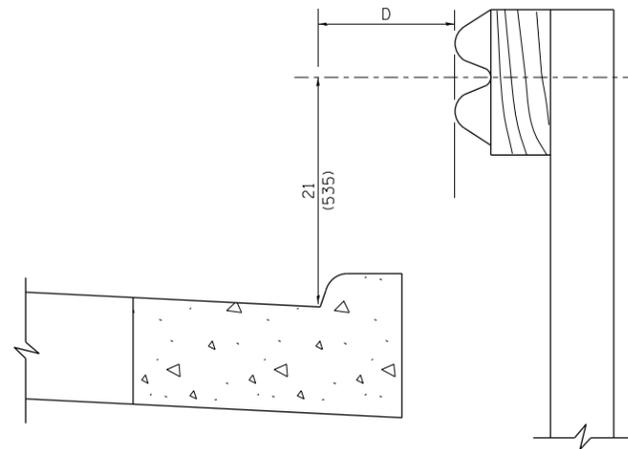
PLAN



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

ELEVATION

**FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED**



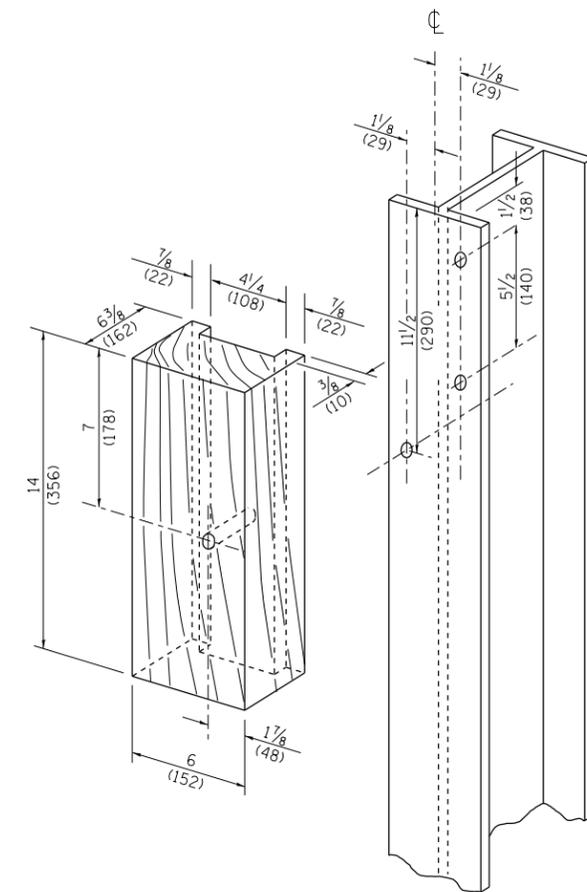
**NOTE:**

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.

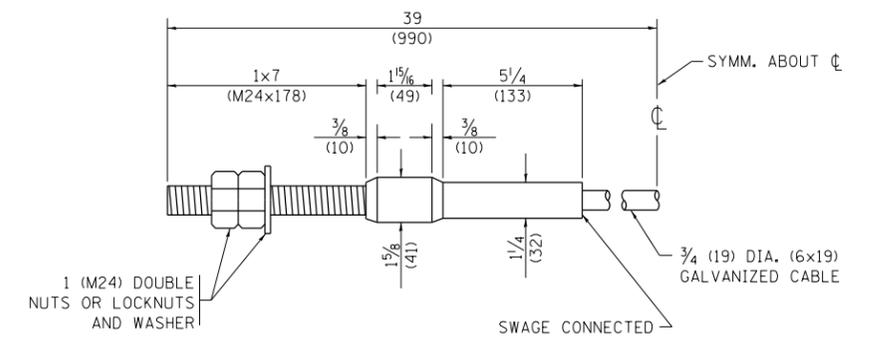
**GUARDRAIL PLACED BEHIND CURB**

(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

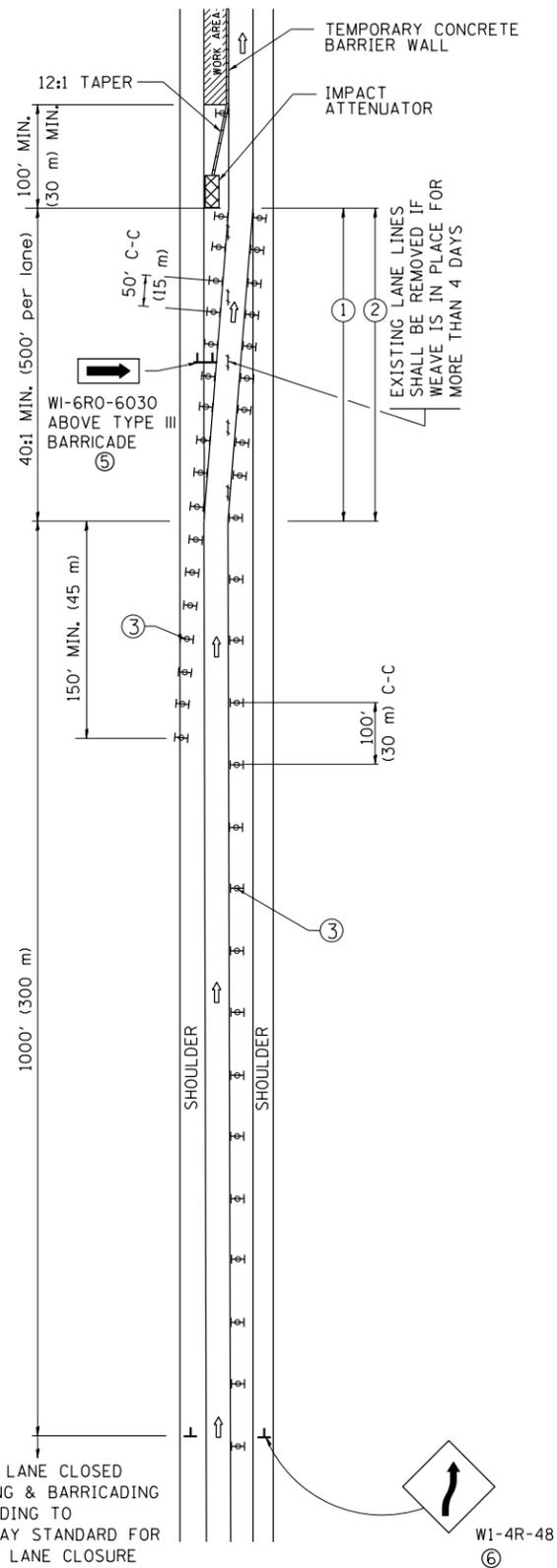
FILE NAME =	USER NAME = alshwabkehym	DESIGNED -	REVISED - 10-31-06
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\010051\DRAMA\Design\DistStd.dgn		CHECKED -	REVISED -
		DATE -	REVISED -
PLOT SCALE = 100.0000' / in.			
PLOT DATE = 3/18/2019			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

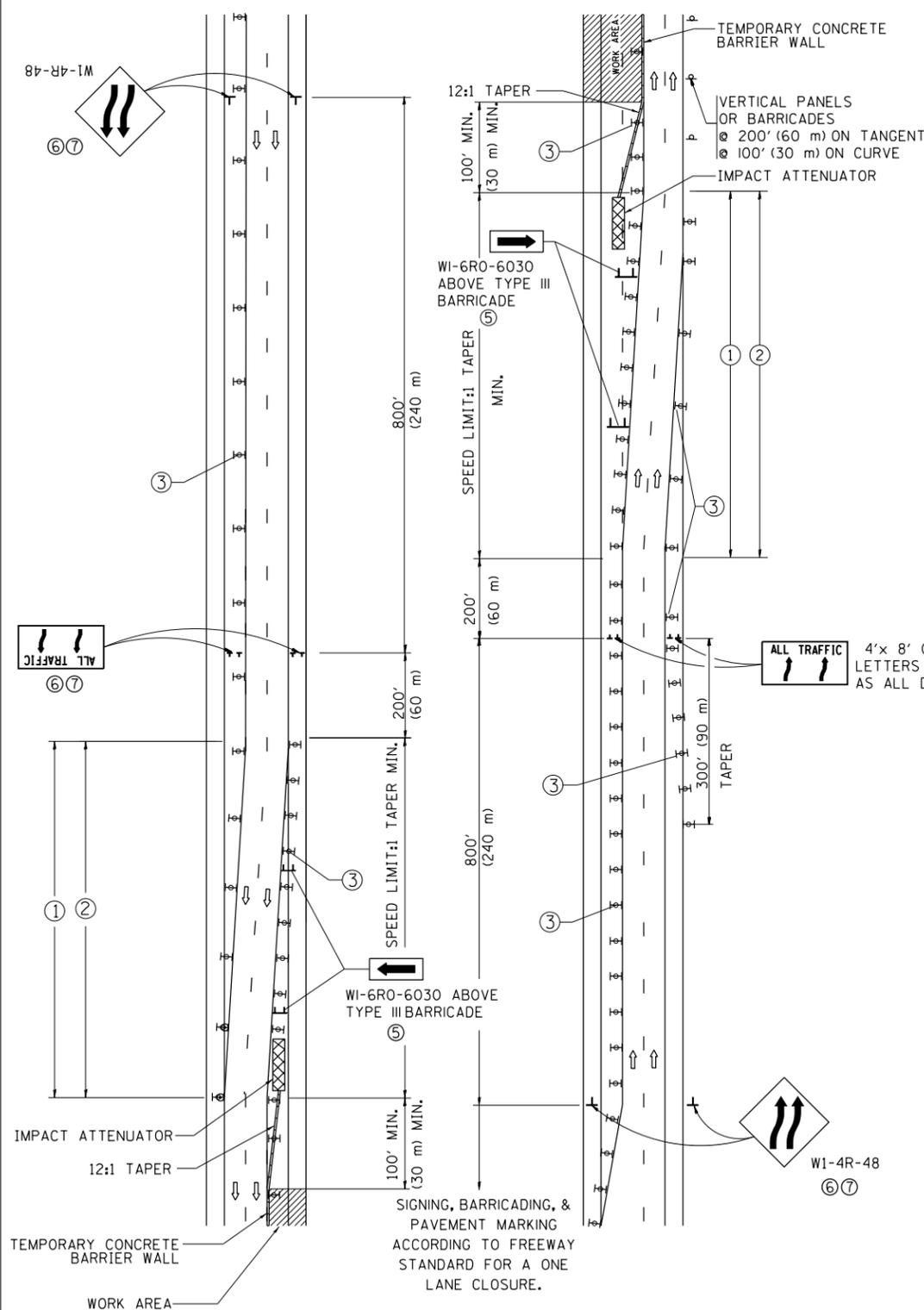
<b>REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL</b>			
SCALE: NONE	SHEET NO. 4 OF 4 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-081-GR	VARIOUS	21	16
<b>BM-21</b>		<b>CONTRACT NO. 62H09</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



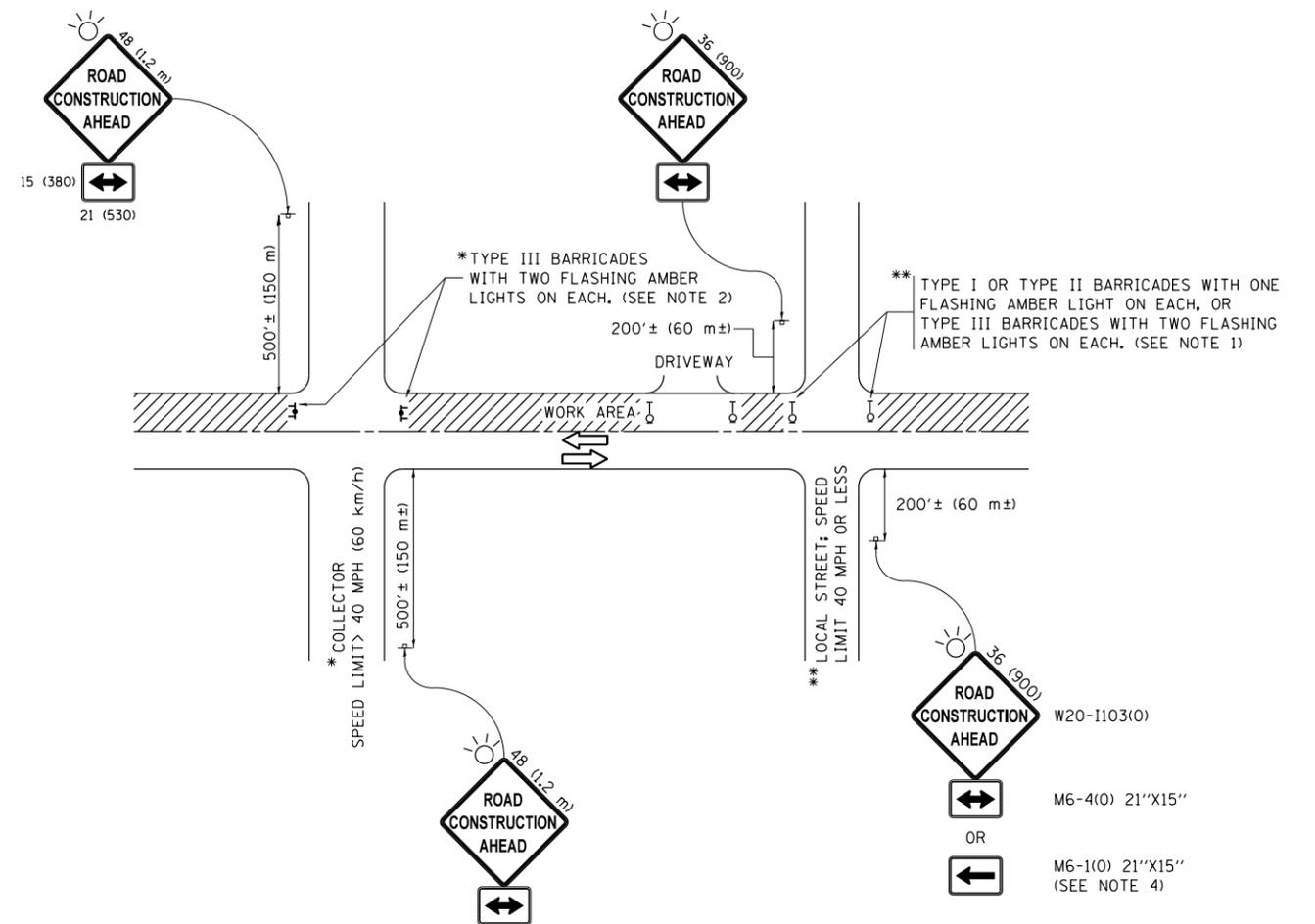
- ### GENERAL NOTES
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
  - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG 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
  - W24-1-48  
⑦

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = alshwabkehym	DESIGNED - DWS	REVISED - JAF 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE &amp; MULTI-LANE WEAVE</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\010051\Drawings\Design\DistStd.dgn	PLLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - SPB 01-07					VAR	2018-081-GR	VARIOUS	21	17
	PLLOT DATE = 3/18/2019	DATE - 02-87	REVISED - SPB 12-09		<b>TC-09</b>			<b>CONTRACT NO. 62H09</b>				
			REVISED - MD 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

FILE NAME =	USER NAME = alshawabkehym	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\010051\DRAWING\Design\DistStd.dgn			REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 3/18/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

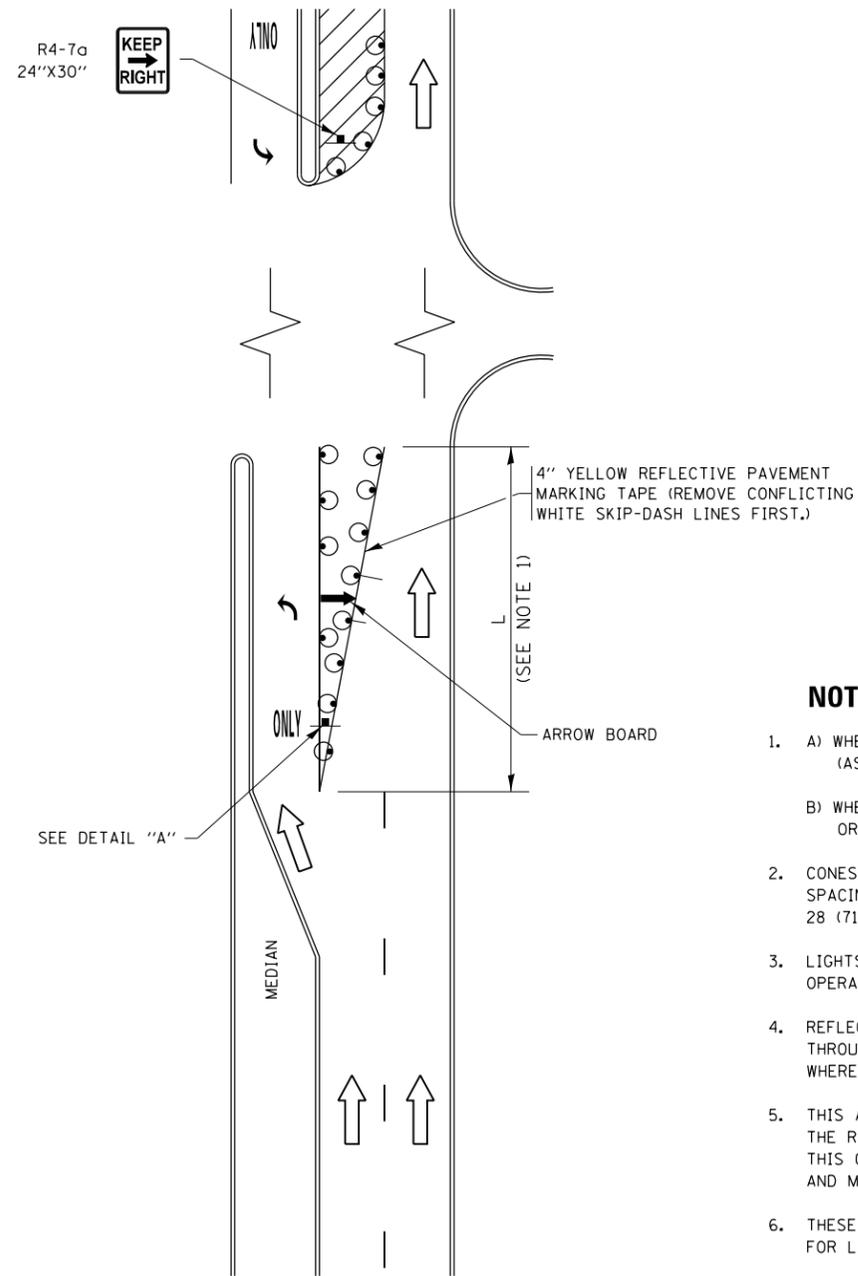
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

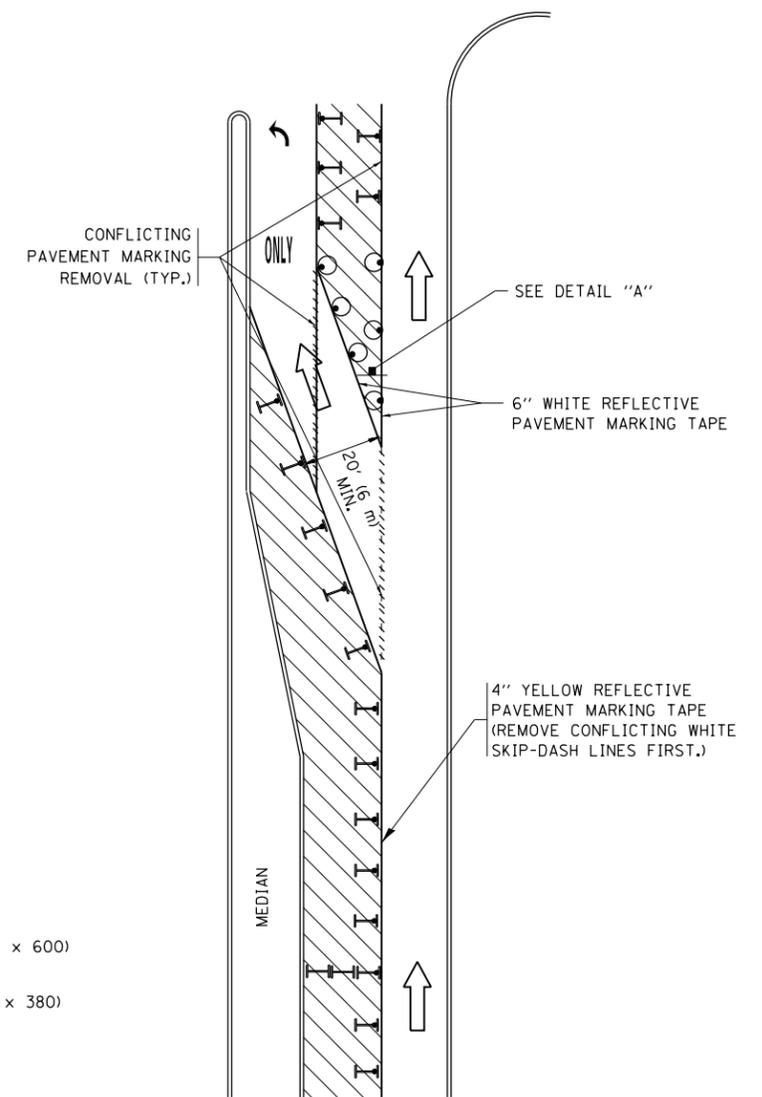
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2018-081-GR	VARIOUS	21	18
<b>TC-10</b>			<b>CONTRACT NO. 62H09</b>	
ILLINOIS FED. AID PROJECT				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

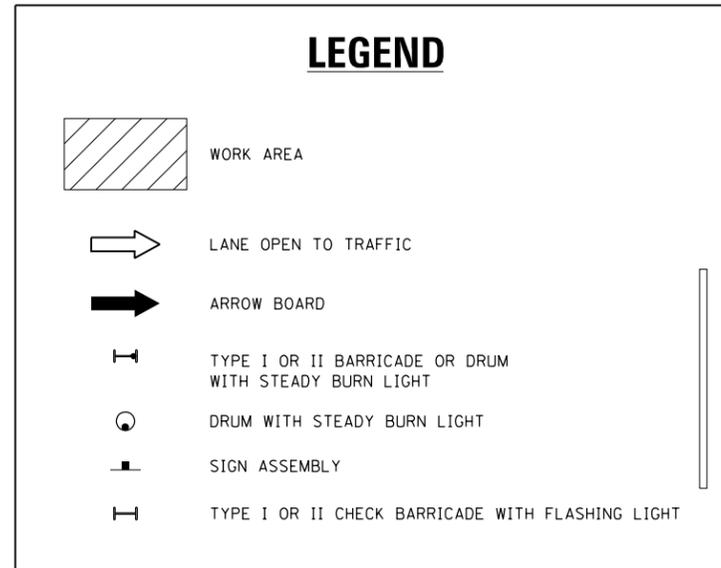


**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE

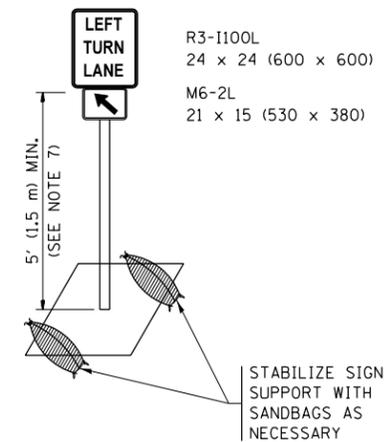


**FIGURE 2**



### NOTES:

1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PRE REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



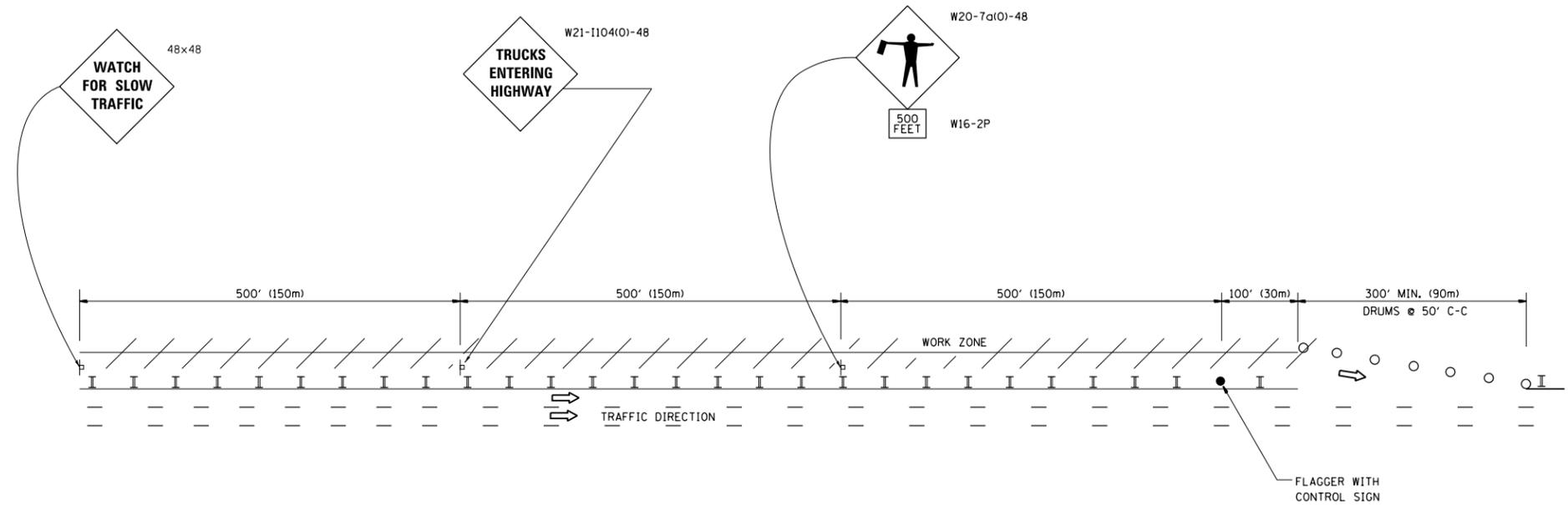
**DETAIL A**

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

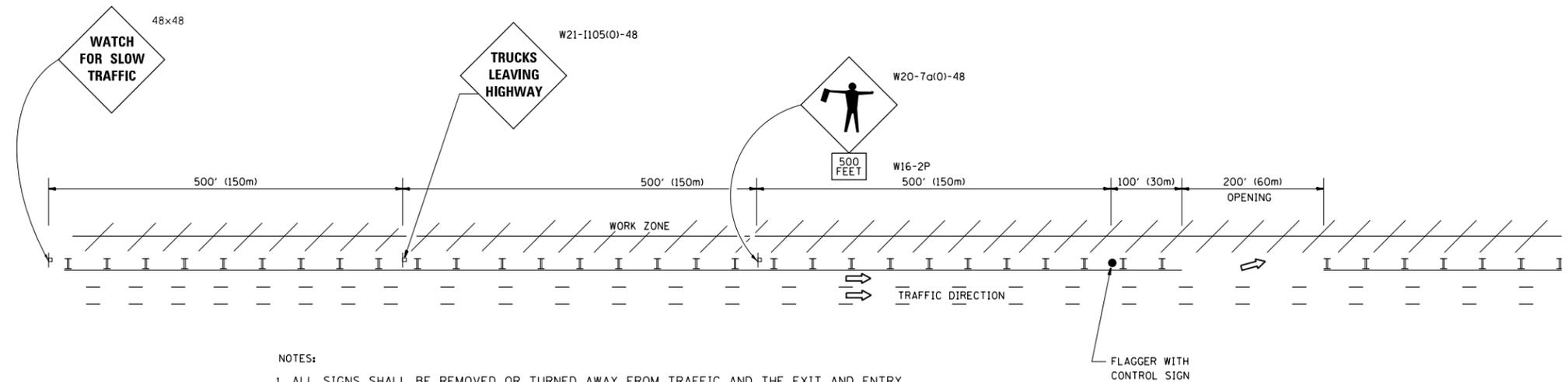
FILE NAME =	USER NAME = alshawabkehym	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)</b>			F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\010051\REVISED Design\010051\010051.DWG	REVISED Design\010051\010051.DWG	REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13					VAR	2018-081-GR	VARIOUS	21	19
Default	PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		<b>TC-14</b>			<b>CONTRACT NO. 62H09</b>				
	PLOT DATE = 3/18/2019	REVISED - T. RAMMACHER 01-06-00	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING

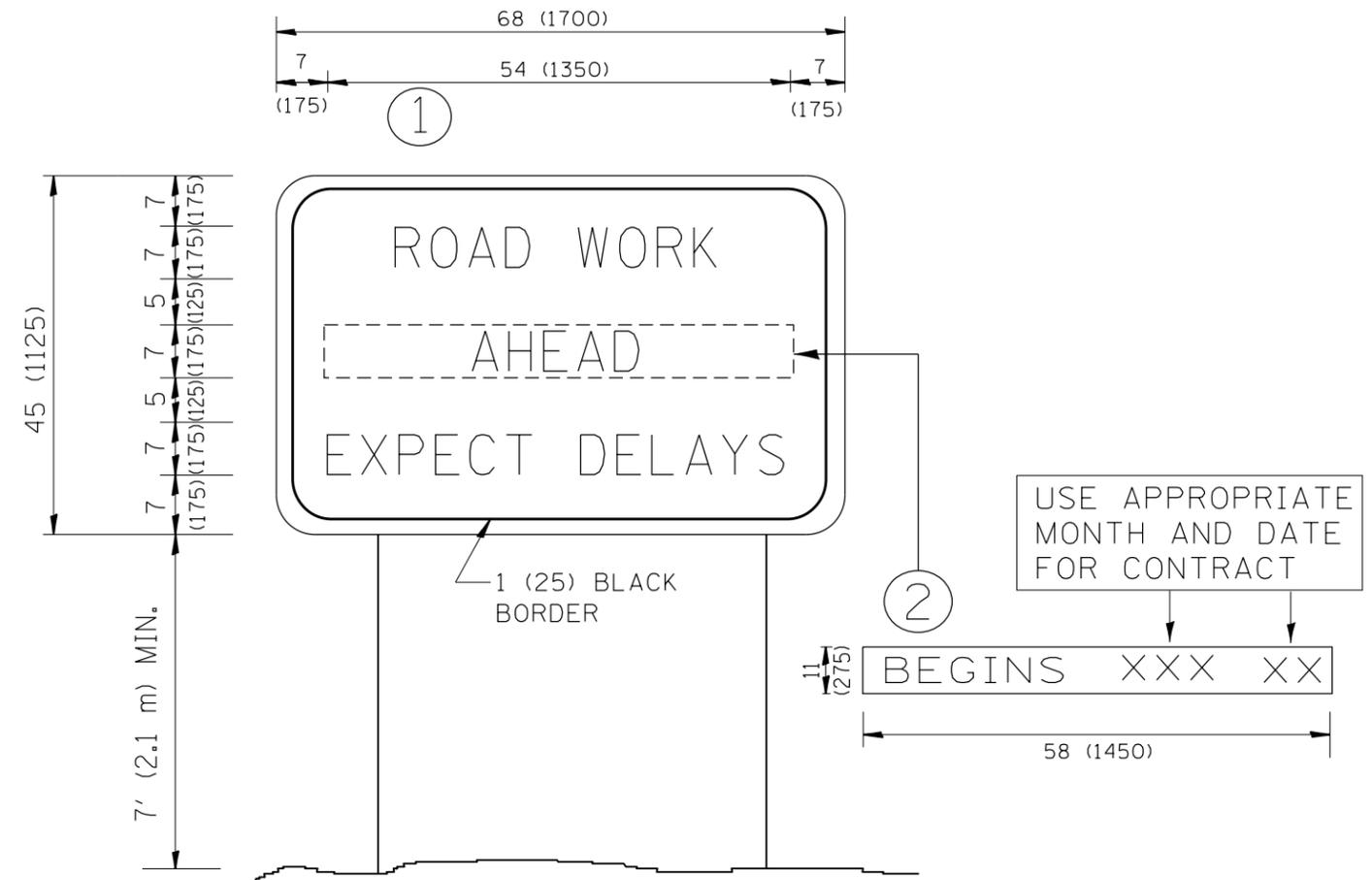


NOTES:

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = aishawebkehym	DESIGNED -	REVISED - J.A.F. 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FREWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAY/EXPRESSWAYS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\planroom\dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\DI0051\DRAWING\Design\DistStd.dgn		REVISED - S.P.B. 01-07	REVISED - S.P.B. 12-09			VAR	2018-081-GR	VARIOUS	21	20	
PLOT SCALE = 1/8" = 1' / in.	CHECKED -	REVISED - M.D. 06-13				<b>TC-18</b>		<b>CONTRACT NO. 62H09</b>			
PLOT DATE = 3/18/2019	DATE -					SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	



**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.

FILE NAME =	USER NAME = alshawabkehym	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\010051\DRAWING\Design\DistStd.dgn	DRAWN	REVISED - R. MIRS 12-11-97	VAR			2018-081-GR	VARIOUS	21	21	
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	<b>TC-22</b>			<b>CONTRACT NO. 62H09</b>				
PLOT DATE = 3/18/2019	DATE -	REVISED - C. JUCIUS 01-31-07	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT