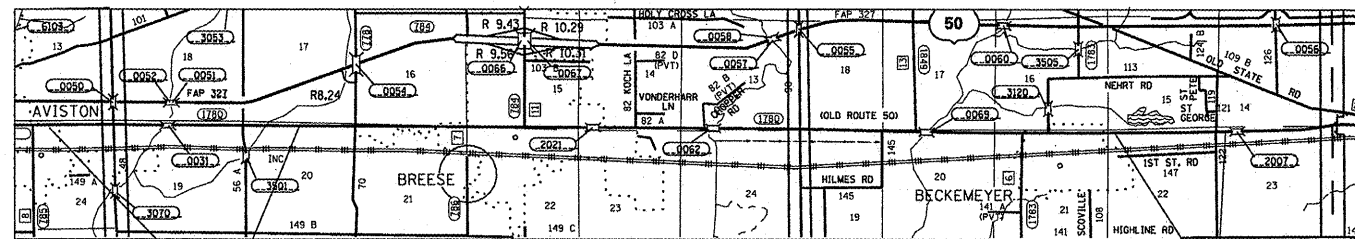
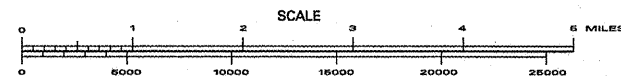


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP RTE 805/FAS RTE 1780 (IL 161/OLD US 50)
SECTION 123-1-J, (26,24)-J
PROJECT ACHSIP-000S(804)
GUARDRAIL - HSIP
ST. CLAIR & CLINTON COUNTIES

C-98-004-10



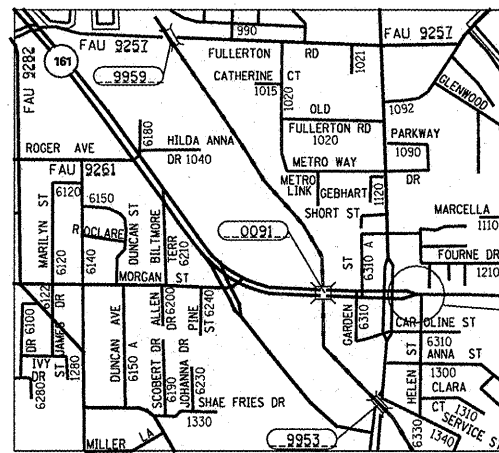
LOCATIONS 5 - 9

CLINTON COUNTY

LOCATIONS 2 - 4

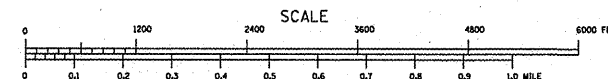
LAT: 38.611823
LONG: -89.565268

LAT: 38.609483
LONG: -89.408497



LOCATION 1

LAT: 38.533731
LONG: -89.982280

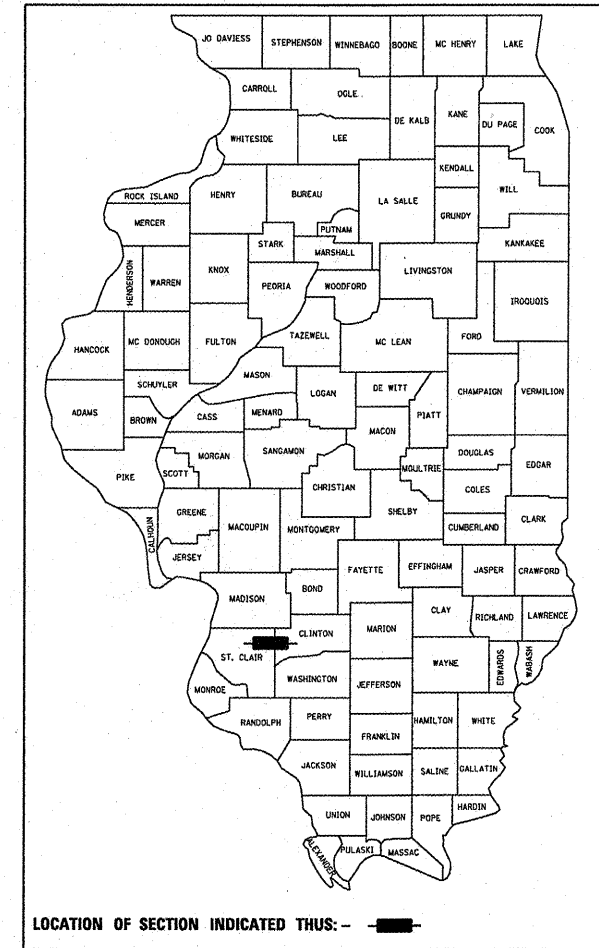


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	123-1-J, (26,24)-J	**	17	1
ILLINOIS			CONTRACT NO. 76D41	

*FAP 805/FAS 1780

**ST. CLAIR & CLINTON

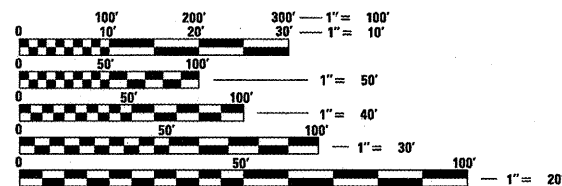
D-98-010-10



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

INDEX OF SHEETS

- 1 COVER SHEET, INDEX OF SHEETS
- 2 GENERAL NOTES, HIGHWAY STANDARDS, ADT, COMMITMENTS
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS
- 5-13 PLAN SHEETS
- 14 - 17 GUARDRAIL DETAILS FOR LOCATION 1



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

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

PROJECT ENGINEER: CHERYL KEPLAR 618-346-3186
PROJECT MANAGER: PATTI LEBEAU 618-346-3179

CONTRACT NO. 76D41

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 3, 2009

Mark C. Jamieson
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

January 29, 2010
Scott E. Stetler
ENGINEER OF DESIGN AND ENVIRONMENT

January 29, 2010
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

GENERAL NOTES

1. THE STANDARDS AND REVISION NUMBERS LISTED SHALL APPLY TO THIS PROJECT.
2. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - AMEREN IP - MARYVILLE (GAS & ELECTRIC)
 - AMEREN IP - BELLEVILLE (GAS & ELECTRIC)
 - AT&T ILLINOIS (COMMUNICATIONS)
 - VILLAGE OF AVISTON (WATER & SANITARY SEWER)
 - VILLAGE OF BECKEMEYER (WATER & SANITARY SEWER)
 - CITY OF BELLEVILLE (SANITARY SEWER)
 - CITY OF CARLYLE (WATER & SANITARY SEWER)
 - CARLYLE NORTH WATER COMPANY (WATER)
 - CARLYLE SOUTHWEST PUBLIC WATER DISTRICT (WATER)
 - CHARTER COMMUNICATIONS, INC. (CABLE TV)
 - CLINTON COUNTY ELECTRIC COOPERATIVE, INC. (ELECTRIC)
 - ILLINOIS AMERICAN WATER COMPANY (WATER)
 - METRO (COMMUNICATIONS)
 - ST. ROSE PUBLIC WATER DISTRICT (WATER)
 - VILLAGE OF SWANSEA (SANITARY SEWER)

MEMBERS OF J.U.L.I.E. (1-800-892-0123) ARE INDICATED BY *.
NON-J.U.L.I.E. MEMBERS MUST BE CONTACTED INDIVIDUALLY.

3. ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING AND TOPO SHOWN IN THE PLANS WAS CREATED USING MICROFILM AND FIELD MEASUREMENTS MADE BY DESIGN PERSONNEL. BOTH SHALL BE ASSUMED TO BE APPROXIMATE.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
6. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT EACH END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE, 48 X 48.
7. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.
8. FLAGGERS SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
9. THE SHOULDERS WILL NOT BE WIDENED FOR INSTALLATION OF THE GUARDRAIL END SECTIONS.
10. THE CONTRACTOR SHALL CONTACT JASON ROECKENHAUS, CARLYLE FIELD TECHNICIAN (618-594-3001) AT LEAST TWO WEEKS PRIOR TO BEGINNING ANY WORK IN CLINTON COUNTY IN ORDER TO COORDINATE WORK BEING DONE BY IDOT.
11. AT LOCATIONS 2 AND 3, THE CONTRACTOR SHALL CUT THE EXISTING POSTS OFF AT THE PAINT LINE PLACED BY IDOT. THE COST WILL BE INCLUDED IN THE PAY ITEM "GUARDRAIL REMOVAL". IDOT OPERATIONS WILL REPAIR THE SHOULDERS PRIOR TO THE CONTRACTOR PLACING THE NEW RAIL. IDOT WILL PROVIDE ITS OWN TRAFFIC CONTROL FOR THE SHOULDER WORK. HOWEVER, THE CONTRACTOR IS REQUIRED TO MAINTAIN WORK ZONE TRAFFIC CONTROL PER ARTICLE 701.17.
12. IDOT OPERATIONS WILL REPAIR THE SHOULDERS AT LOCATIONS 4-9 AFTER THE CONTRACTOR HAS REMOVED THE EXISTING GUARDRAIL AND BEFORE ANY NEW RAIL IS PLACED. THE SHOULDER WORK WILL TAKE APPROXIMATELY 3 DAYS PER LOCATION. IDOT WILL PROVIDE ITS OWN TRAFFIC CONTROL. HOWEVER, THE CONTRACTOR IS REQUIRED TO MAINTAIN WORK ZONE TRAFFIC CONTROL PER ARTICLE 701.17.
13. DUE TO THE TIGHT RIGHT-OF-WAY AND LIMITED WORK ROOM, WORK SHALL BE DONE FROM THE ROADWAY.

14. FOR LOCATION 1 ONLY, THE PROPOSED STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINAL ITEMS INCLUDED IN THE PLANS SHALL COMPLY WITH THE DETAILS IN THE PLANS AND MANUFACTURER'S DETAILS IN ORDER TO MATCH THE EXISTING GUARDRAIL ELEMENTS THAT WERE ERECTED PRIOR TO JANUARY 1, 2007.
15. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR ITS UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR ITS EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. IF "LOCATING UNDERGROUND CABLE" IS NOT INCLUDED AS PART OF THE PLANS, THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
16. AT LOCATION 1, CORING OF THE ASPHALT AND/OR CONCRETE FOR PLACEMENT OF THE GUARDRAIL POSTS SHALL BE INCLUDED IN THE COST OF THE GUARDRAIL ITEMS BEING PLACED.

HIGHWAY STANDARDS

000001-05
630001-08
630101-08
631011-06
635006-03
635011-02
701201-03
701901-01

ADT

LOCATION 1
2007 ADT = 24,000
2010 ADT = 24,700 (ESTIMATED)
SU = 2.0%
MU = 2.3%

LOCATIONS 2 - 4
2005 ADT = 5900
2010 ADT = 6100 (ESTIMATED)
SU = 3.8%
MU = 2.1%

LOCATIONS 5 - 9
2005 ADT = 4350
2010 ADT = 4500 (ESTIMATED)
SU = 3.5%
MU = 2.3%

COMMITMENTS

NONE

*FAP 805/FAS 1780

**ST. CLAIR & CLINTON

FILE NAME *	USER NAME * #USER#	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, HIGHWAY STANDARDS, ADT, COMMITMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT SCALE * #SCALE#	CHECKED - ---	REVISED - ---			CONTRACT NO. 76D41					
	PLOT DATE * #DATE#	DATE - ---	REVISED - ---			ILLINOIS FED. AID PROJECT					
						SCALE: _____	SHEET NO. 1 OF 1 SHEETS		STA. _____ TO STA. _____		

URBAN
9010 FED/ST

FAP 805
IL 161

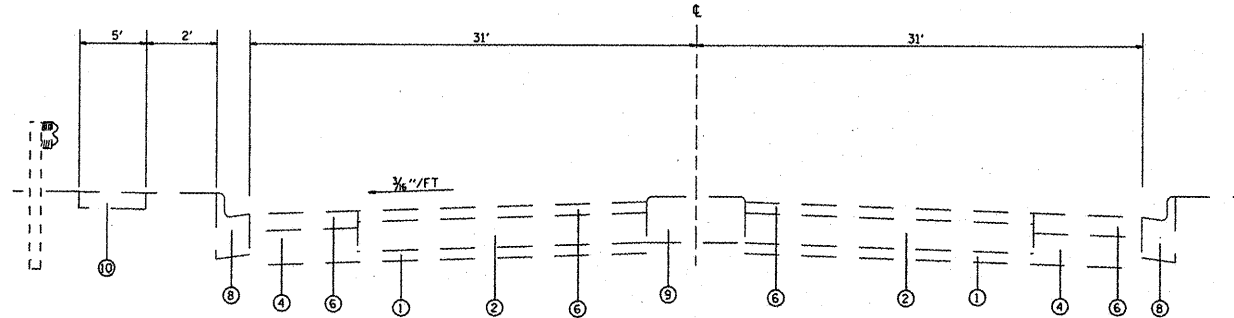
FAS 1780
CLD US 50

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE									
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	LOC 1 ST. CLAIR CO. SFTY-3J	LOC 2 CLINTON CO. SFTY-3J	LOC 3 CLINTON CO. SFTY-3J	LOC 4 CLINTON CO. SFTY-3J	LOC 5 CLINTON CO. SFTY-3J	LOC 6 CLINTON CO. SFTY-3J	LOC 7 CLINTON CO. SFTY-3J	LOC 8 CLINTON CO. SFTY-3J	LOC 9 CLINTON CO. SFTY-3J
63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	75	75								
63000003	STEEL PLATE BEAM GUARD RAIL, TYPE A, 9 FOOT POSTS	FOOT	1437.5		362.5	75	150	250	62.5	112.5	262.5	162.5
63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	250		100	37.5	25	25	12.5	12.5	37.5	
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1								
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	22		4	2	2	4	2	2	4	2
63200310	GUARDRAIL REMOVAL	FOOT	1875	12.5	575	137.5	100	287.5	112.5	225	287.5	137.5
63300725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	25	25								
67100100	MOBILIZATION	L SUM	1	0.09	0.17	0.08	0.08	0.17	0.08	0.08	0.17	0.08
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.09	0.17	0.08	0.08	0.17	0.08	0.08	0.17	0.08
78200410	GUARDRAIL MARKERS, TYPE A	EACH	39	2	4	3	7	6	3	3	7	4
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	22		4	2	2	4	2	2	4	2
80300100	LOCATING UNDERGROUND CABLE	FOOT	25	25								

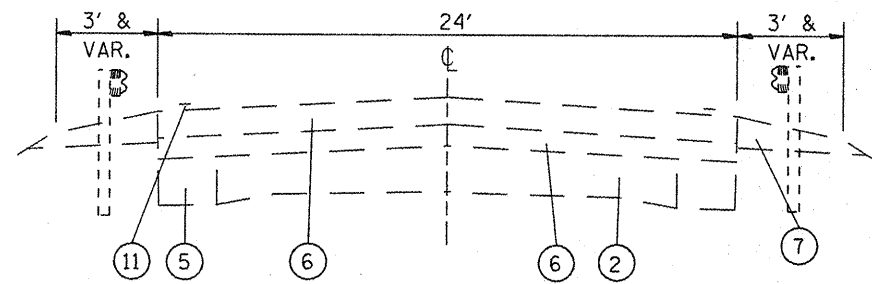
*FAP 805/FAS 1780 **ST. CLAIR & CLINTON

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#FILE#		DRAWN - ---	REVISED - ---		SCALE: _____	SHEET NO. 1 OF 1 SHEETS	STA. _____ TO STA. _____	•	123-1-J, (26,24)-J	**	17	3
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	PLOT DATE = #DATE#	DATE - -----	REVISED - ---		FED. ROAD DIST. NO. _ [ILLINOIS] FED. AID PROJECT							



FAP ROUTE 805 (IL 161)
LOCATION 1

- ① GRANULAR BASE COURSE, 4"
- ② PCC PAVEMENT
- ③ PCC WIDENING
- ④ BITUMINOUS BASE COURSE
- ⑤ BITUMINOUS WIDENING
- ⑥ BITUMINOUS RESURFACING
- ⑦ AGGREGATE SHOULDER, TYPE B
- ⑧ CCC&G, TYPE B-6.24
- ⑨ CORRUGATED MEDIAN
- ⑩ CONCRETE SIDEWALK
- ⑪ EDGELINE STRIPING



FAS ROUTE 1780 (OLD US 50)
LOCATIONS 2 - 9

*FAP 805/FAS 1780 **ST. CLAIR & CLINTON

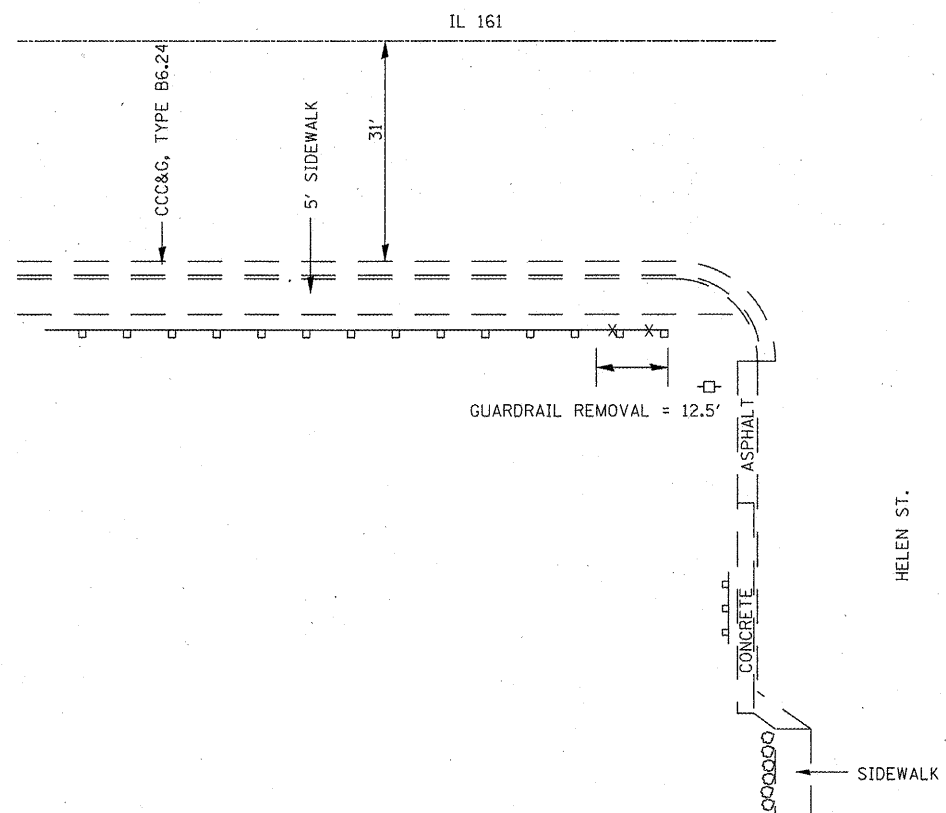
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: SHEET NO. 1 OF 9 SHEETS STA. TO STA.

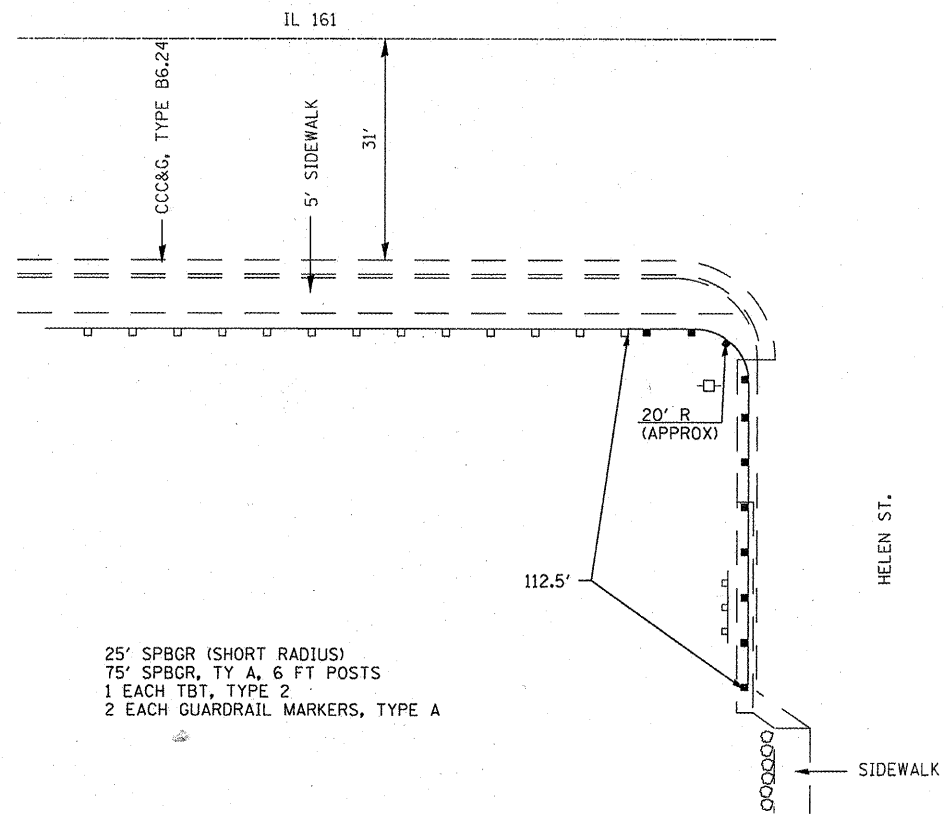
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*	123-1-J, (26,24)-J	**	17	4
			CONTRACT NO. 76D41	
ILLINOIS FED. AID PROJECT				



EXISTING

NOT TO SCALE

Contractor to determine exact radius in the field.



PROPOSED

NOT TO SCALE

*FAP 805/FAS 1780

**ST. CLAIR & CLINTON

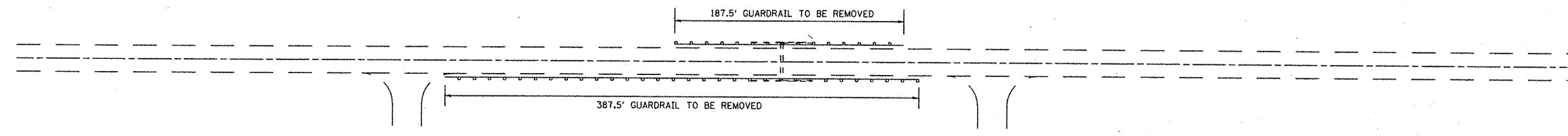
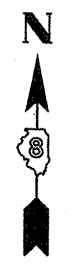
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LOCATION 1

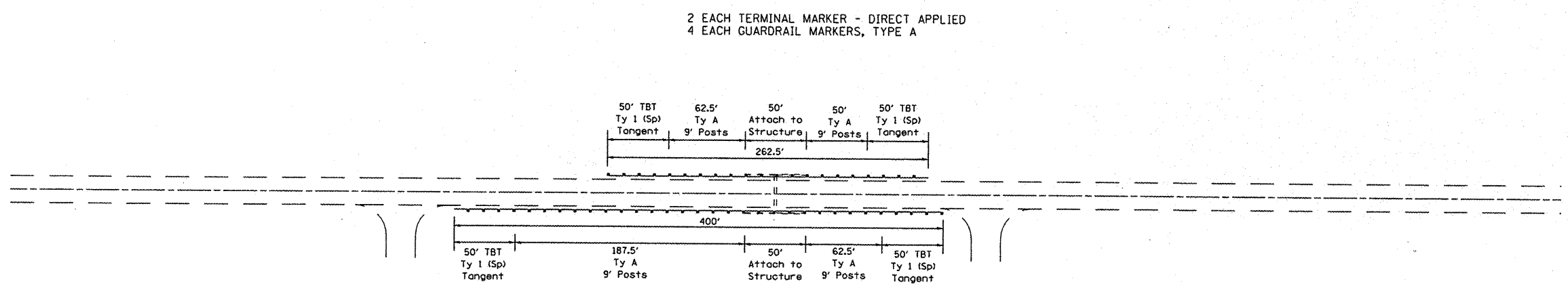
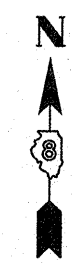
SCALE: _____ SHEET NO. 1 OF 9 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	123-1-J, (26,24)-J	**	17	5
CONTRACT NO. 76D41			ILLINOIS FED. AID PROJECT	



EXISTING

NOT TO SCALE



2 EACH TERMINAL MARKER - DIRECT APPLIED
4 EACH GUARDRAIL MARKERS, TYPE A

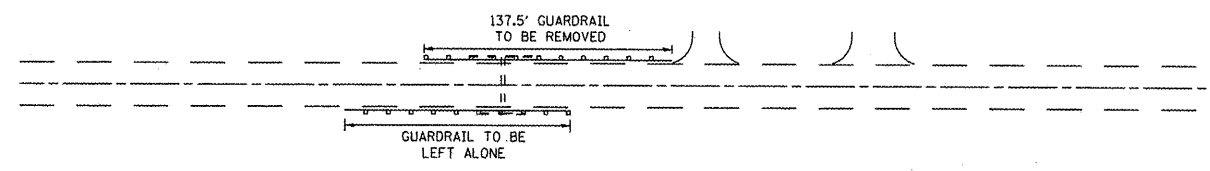
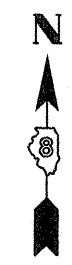
2 EACH TERMINAL MARKER - DIRECT APPLIED
5 EACH GUARDRAIL MARKERS, TYPE A

MM 16.22 - SN 014-2007 EAST OF PIPELINE ROAD

PROPOSED

NOT TO SCALE

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ILLINOIS FED. AID PROJECT										

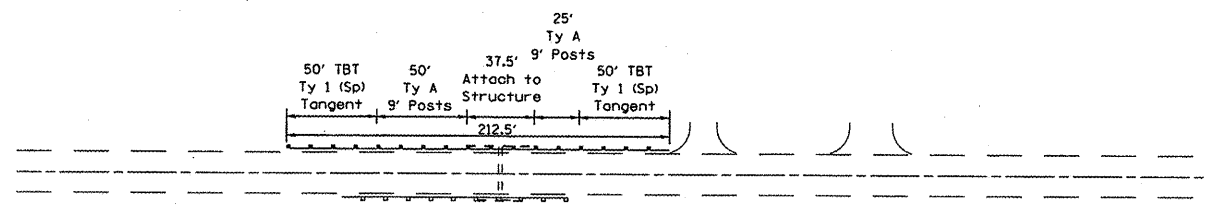


EXISTING

NOT TO SCALE



2 EACH TERMINAL MARKER - DIRECT APPLIED
3 EACH GUARDRAIL MARKERS, TYPE A



PROPOSED

NOT TO SCALE

MM 15.68 - EAST SIDE OF BECKEMEYER

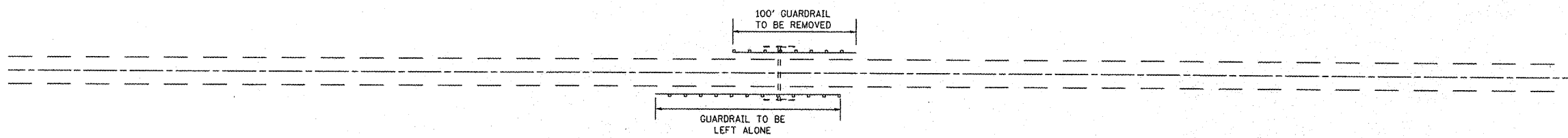
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LOCATION 3
SCALE: SHEET NO. 3 OF 9 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	123-1-J, (26,24)-J	**	17	7
CONTRACT NO. 76D41				
ILLINOIS FED. AID PROJECT				

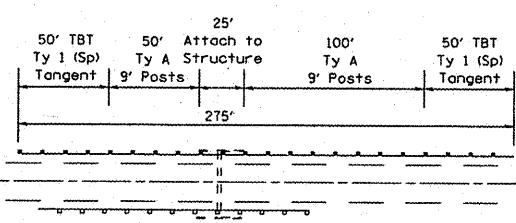
*FAP 805/FAS 1780 **ST. CLAIR & CLINTON



EXISTING

NOT TO SCALE

2 EACH TERMINAL MARKER - DIRECT APPLIED
4 EACH GUARDRAIL MARKERS, TYPE A



PROPOSED

NOT TO SCALE

MM 15.28 - SN 014-2443 EAST SIDE OF BECKEMEYER

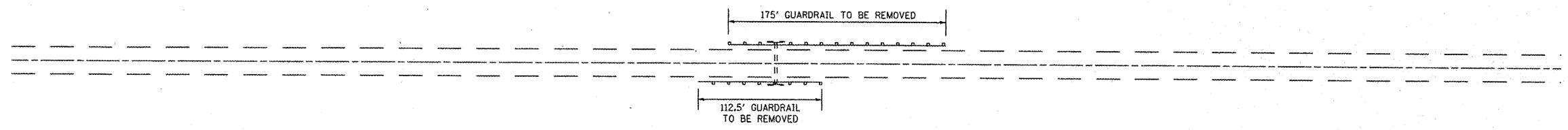
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LOCATION 4

SCALE: _____ SHEET NO. 4 OF 9 SHEETS STA. _____ TO STA. _____

*FAP 805/FAS 1780		**ST. CLAIR & CLINTON	
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
.	123-1-J, (26,24)-J	**	17
			SHEET NO. 8
			CONTRACT NO. 76D41
ILLINOIS FED. AID PROJECT			

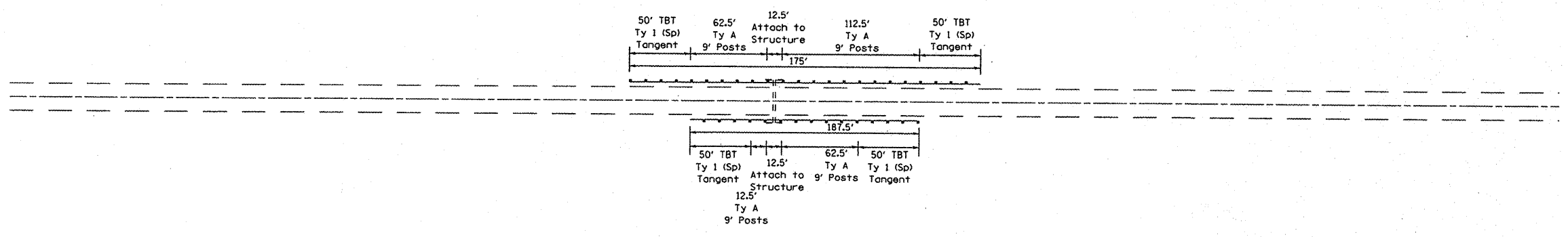


EXISTING

NOT TO SCALE



2 EACH TERMINAL MARKER - DIRECT APPLIED
3 EACH GUARDRAIL MARKERS, TYPE A



2 EACH TERMINAL MARKER - DIRECT APPLIED
3 EACH GUARDRAIL MARKERS, TYPE A

MM 7.69 - SN 014-2439 EAST OF AVISTON

PROPOSED

NOT TO SCALE

*FAP 805/FAS 1780 **ST. CLAIR & CLINTON

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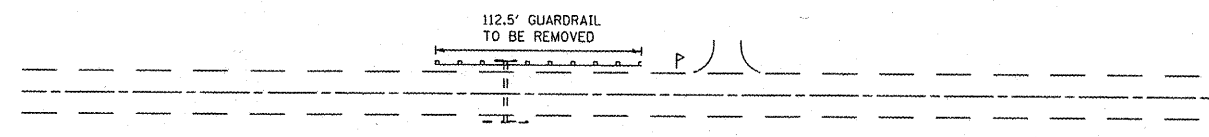
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LOCATION 5

F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
.	123-1-J, (26,24)-J	**	17	9
			CONTRACT NO. 76D41	

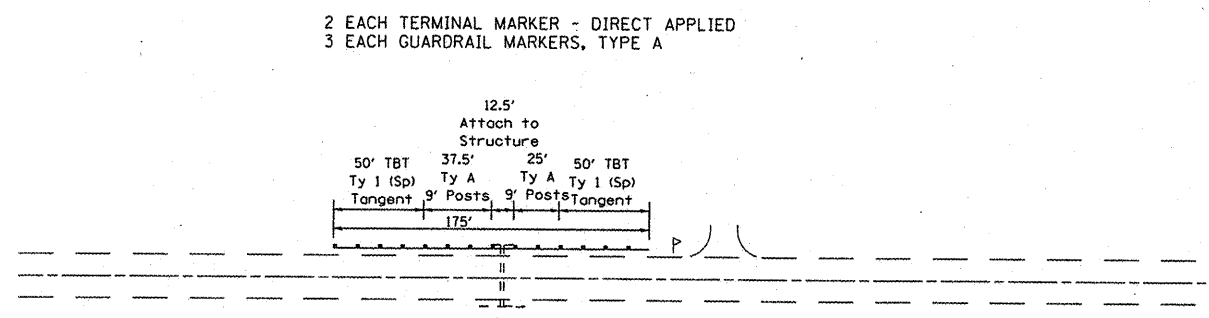
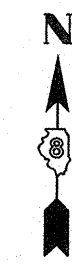
SCALE: _____ SHEET NO. 5 OF 9 SHEETS STA. _____ TO STA. _____

ILLINOIS FED. AID PROJECT



EXISTING

NOT TO SCALE



2 EACH TERMINAL MARKER - DIRECT APPLIED
3 EACH GUARDRAIL MARKERS, TYPE A

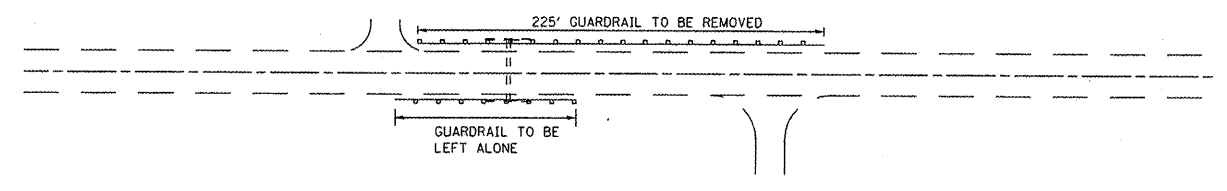
PROPOSED

MM 6.77 - EAST OF AVISTON

NOT TO SCALE

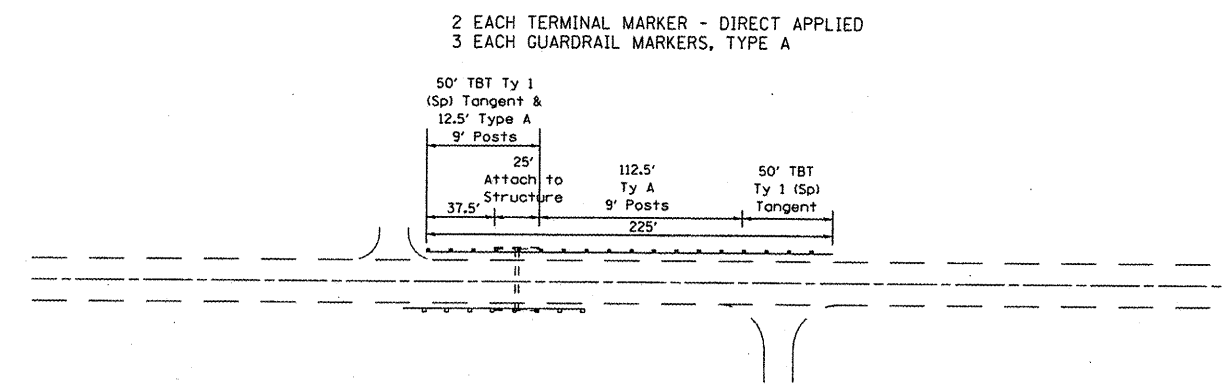
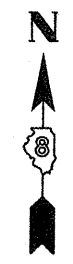
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	PLOT DATE = #DATE#	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: _____ SHEET NO. 6 OF 9 SHEETS STA. _____ TO STA. _____							

*FAP 805/FAS 1780 **ST. CLAIR & CLINTON



EXISTING

NOT TO SCALE



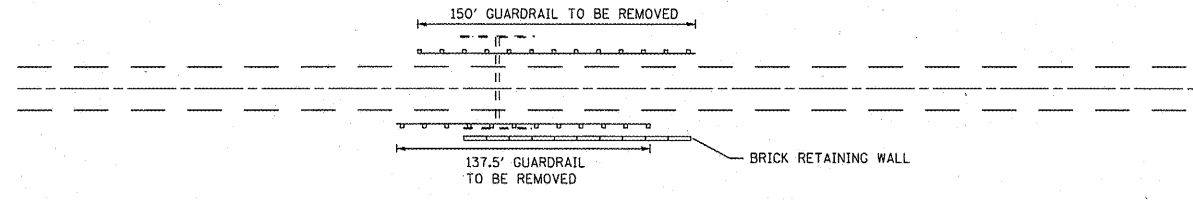
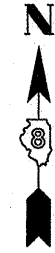
PROPOSED

MM 5.89 - SN 014-2438 EAST OF AVISTON

NOT TO SCALE

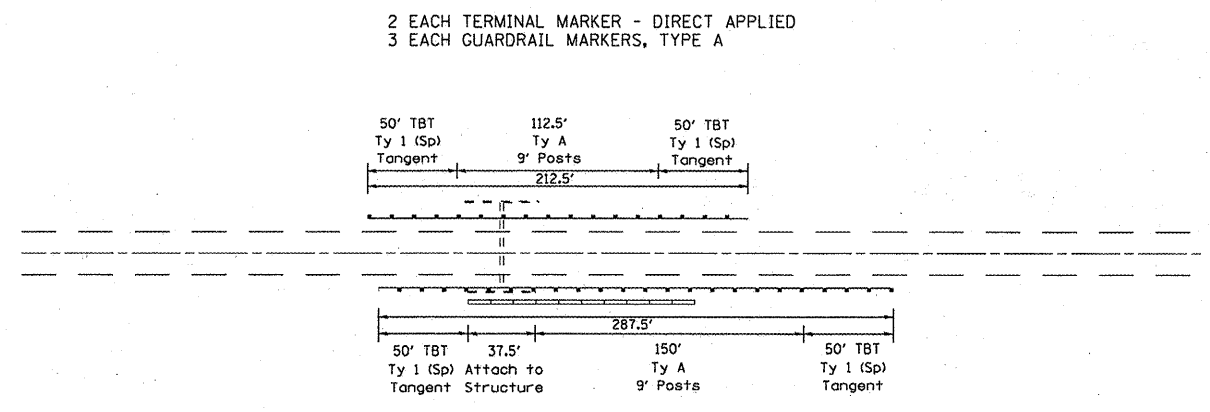
*FAP 805/FAS 1780 **ST. CLAIR & CLINTON

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET LOCATION 7		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - ---	REVISED - ---		SCALE: _____	SHEET NO. 7 OF 9 SHEETS	STA. _____ TO STA. _____	123-1-J, (26,24)-J	**	17	11
	PLOT DATE = #DATE#	CHECKED - ---	REVISED - ---		CONTRACT NO. 76D41						
		DATE - ---	REVISED - ---		ILLINOIS FED. AID PROJECT						



EXISTING

NOT TO SCALE



2 EACH TERMINAL MARKER - DIRECT APPLIED
4 EACH GUARDRAIL MARKERS, TYPE A

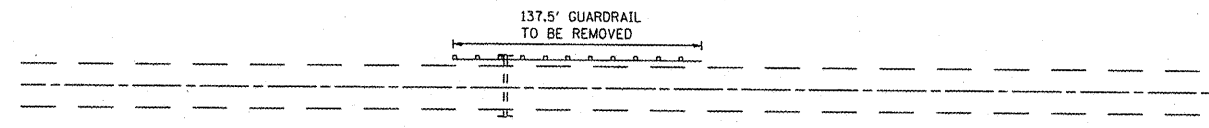
MM 5.67 - SN 014-2437 CLEVELAND ST. IN AVISTON

PROPOSED

NOT TO SCALE

*FAP 805/FAS 1780 **ST. CLAIR & CLINTON

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET LOCATION 8	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - ---	REVISED - ---			*	123-1-J, (26,24)-J	**	17	12
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				SCALE: -----	SHEET NO. 8 OF 9 SHEETS	STA. ----- TO STA. -----				

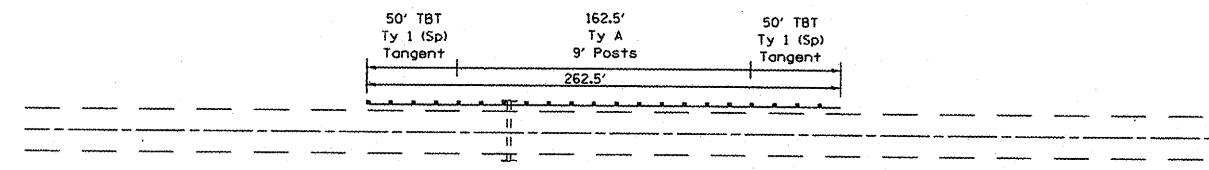


EXISTING

NOT TO SCALE



2 EACH TERMINAL MARKER - DIRECT APPLIED
 4 EACH GUARDRAIL MARKERS, TYPE A



PROPOSED

NOT TO SCALE

MM 5.54 - PAGE ST. IN AVISTON

*FAP 805/FAS 1780 **ST. CLAIR & CLINTON

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - ---	REVISED - ---
		DRAWN - ---	REVISED - ---
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	PLOT DATE = #DATE#	DATE - ---	REVISED - ---

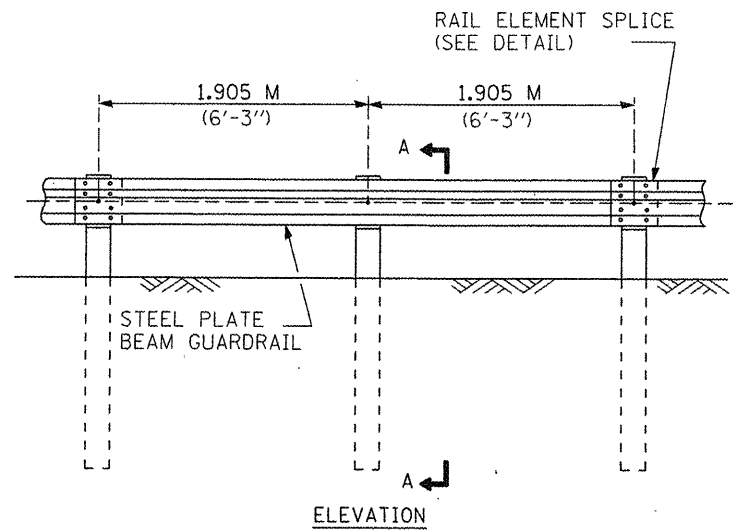
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN SHEET
 LOCATION 9

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	123-1-J, (26,24)-J	**	17	13
			CONTRACT NO. 76D41	

SCALE: _____ SHEET NO. 9 OF 9 SHEETS STA. _____ TO STA. _____

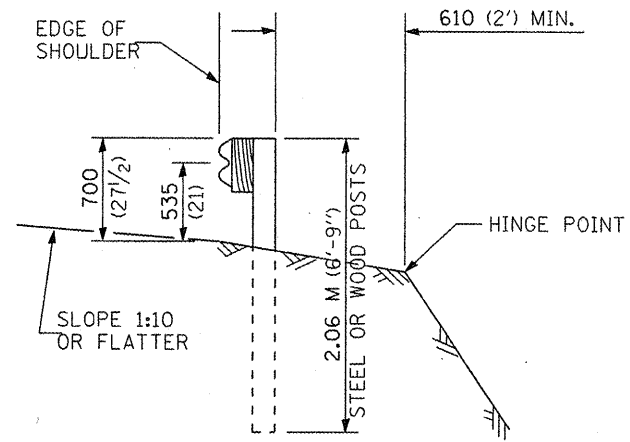
ILLINOIS FED. AID PROJECT



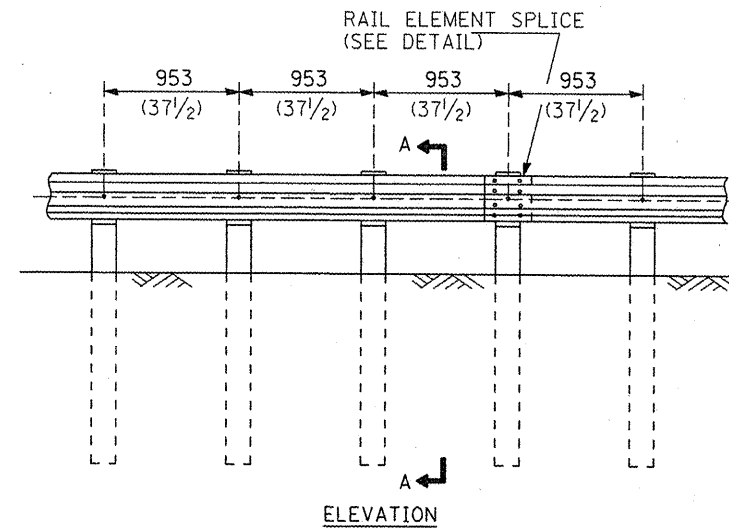
ELEVATION

TYPE A

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



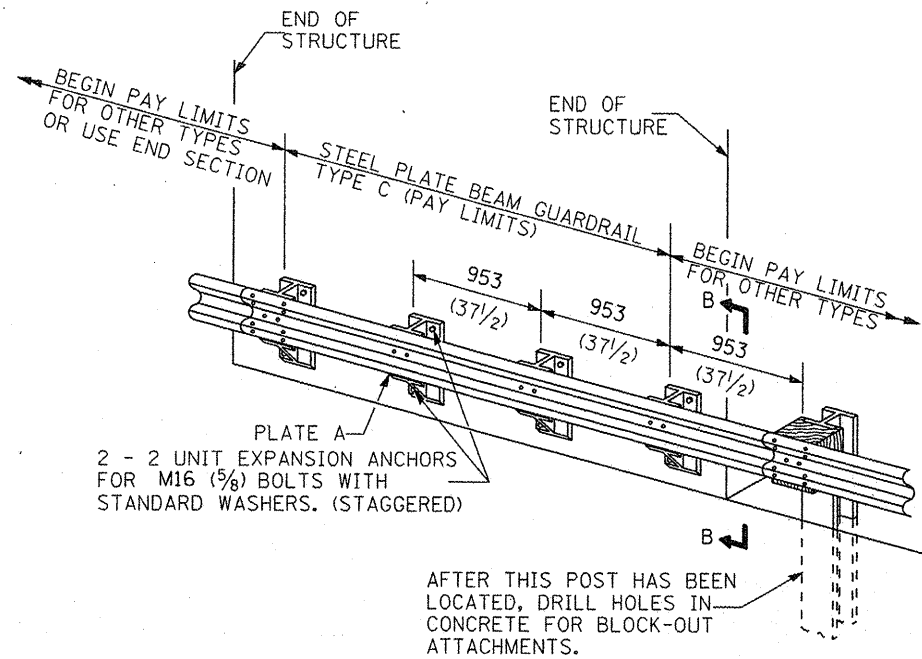
SECTION A-A



ELEVATION

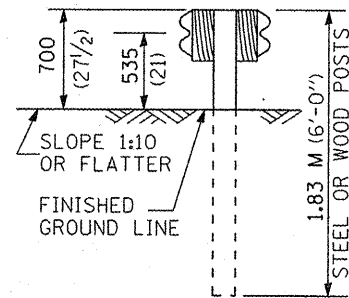
TYPE B

953 (37 1/2) CLOSED POST SPACING

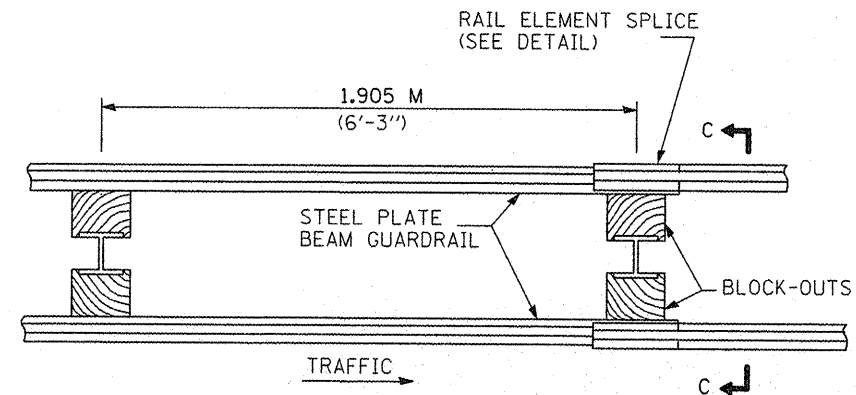


TYPE C

953 (37 1/2) BLOCK-OUT SPACING



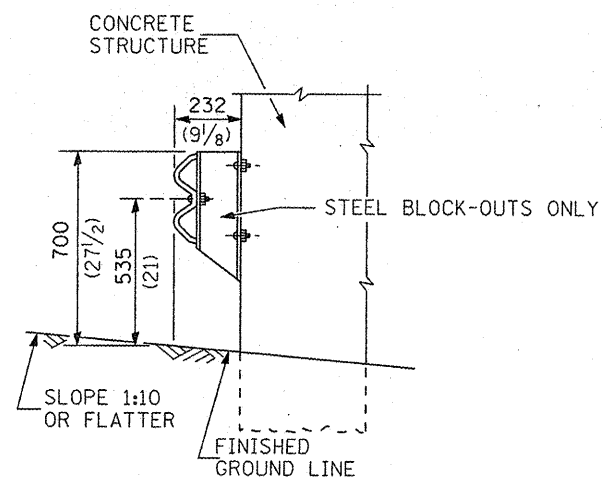
SECTION C-C



PLAN

TYPE D

DOUBLE STEEL PLATE BEAM GUARDRAIL
1.905 M (6'-3") 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 MILLIMETERS (INCHES) 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.

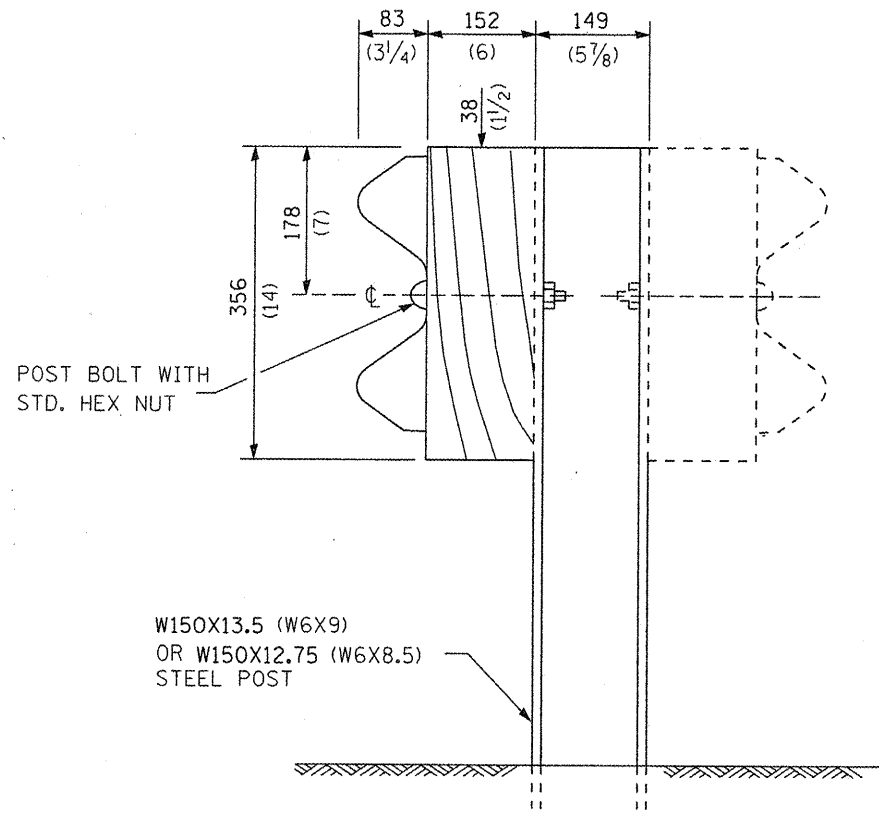
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FILEL		DRAWN -	REVISOR -
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	PLOT DATE = #DATE#	DATE -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

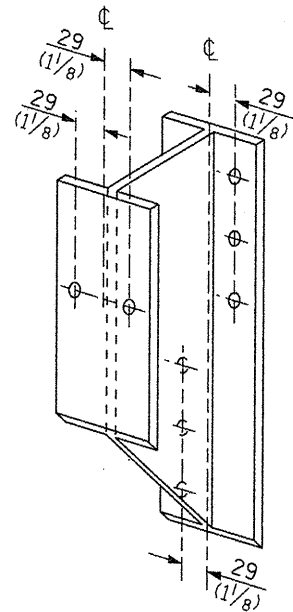
**STEEL PLATE BEAM GUARDRAIL DETAIL
LOCATION 1**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

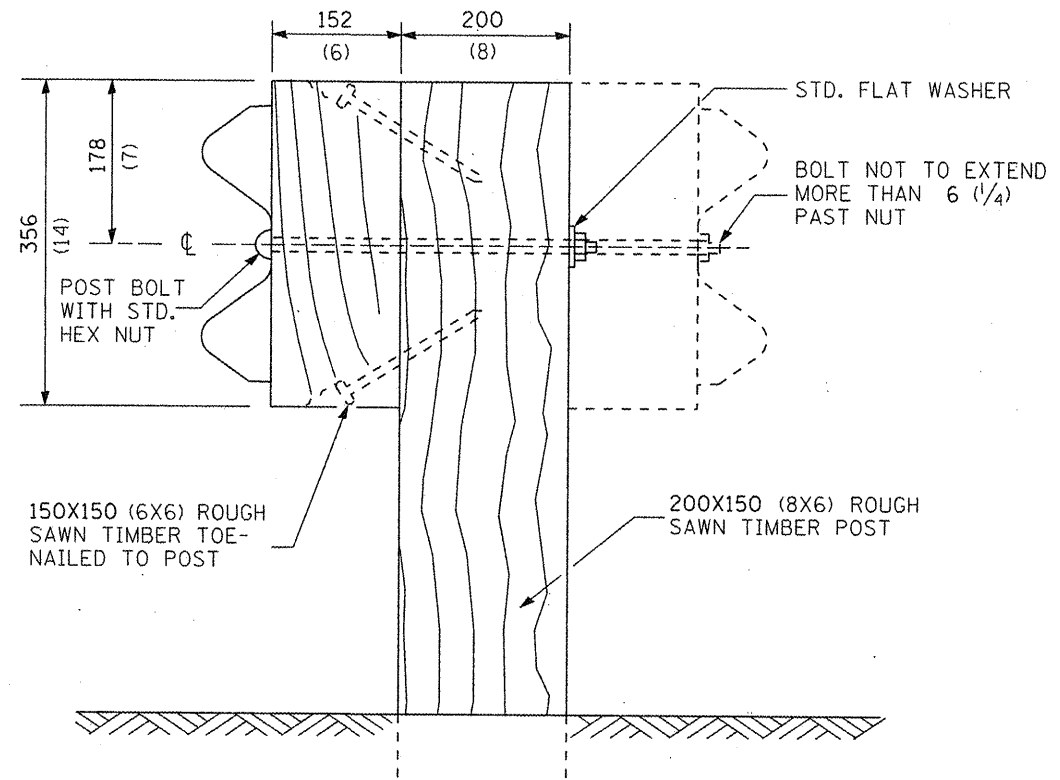
*FAP 805/FAS 1780	**ST. CLAIR & CLINTON			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	123-1-J, (26.24)-J	**	17	14
FED. ROAD DIST. NO. - ILLINOIS			CONTRACT NO. 76D41	



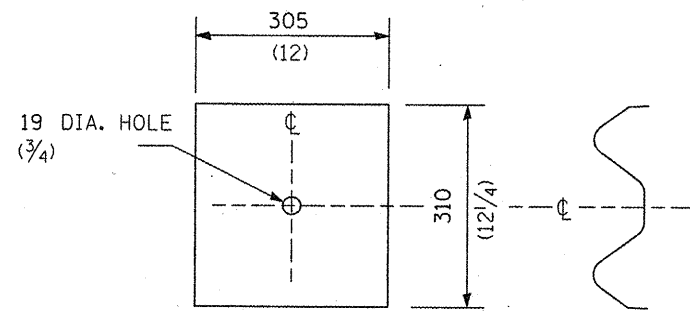
STEEL POST CONSTRUCTION



STEEL BLOCK-OUT DETAIL



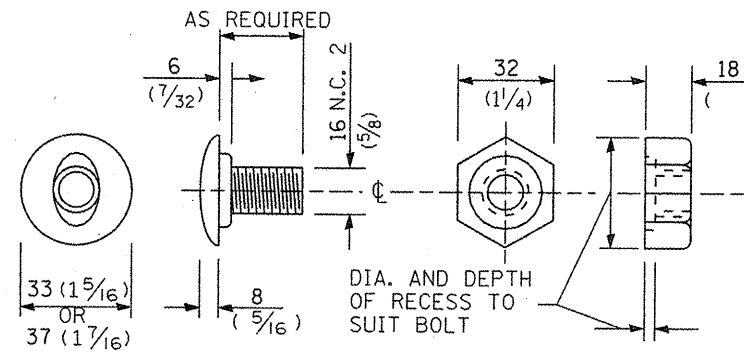
WOOD POST CONSTRUCTION



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 = #USER#	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL PLATE BEAM GUARDRAIL DETAIL
LOCATION 1

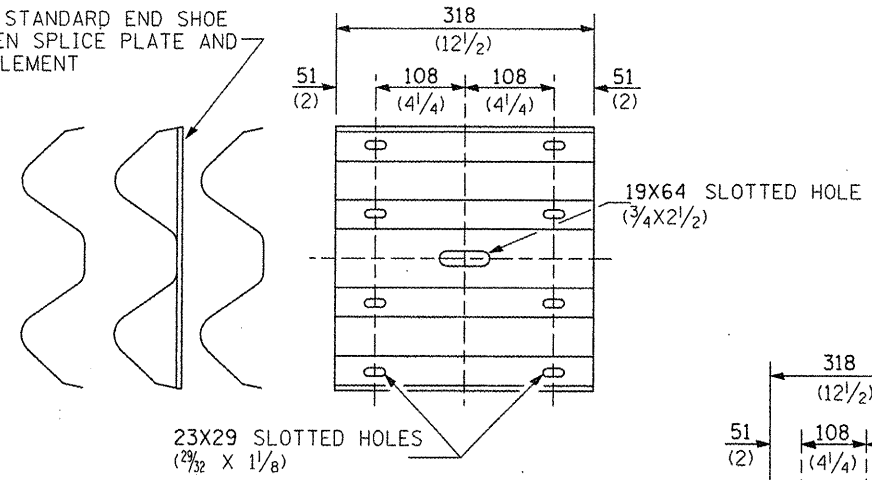
SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

*FAP 805/FAS 1780

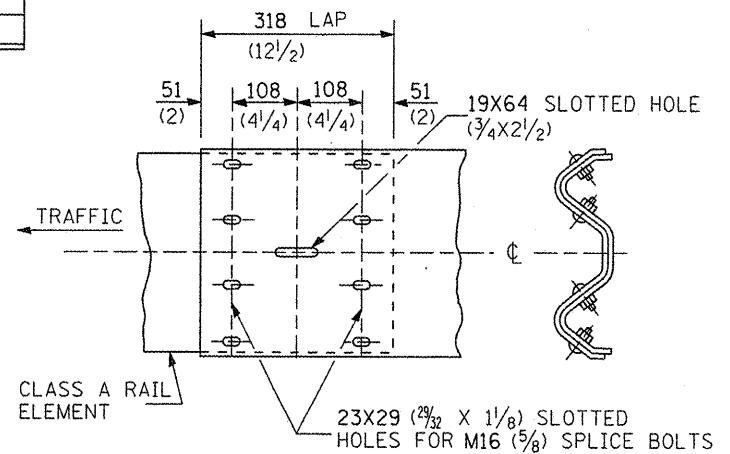
**ST. CLAIR & CLINTON

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 76D41	

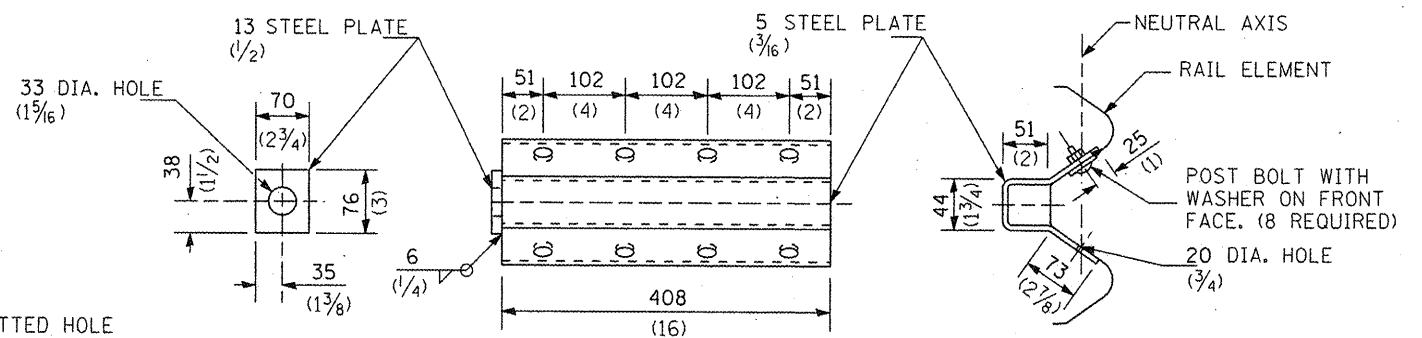
PLACE STANDARD END SHOE BETWEEN SPLICE PLATE AND RAIL ELEMENT



SPLICE PLATE

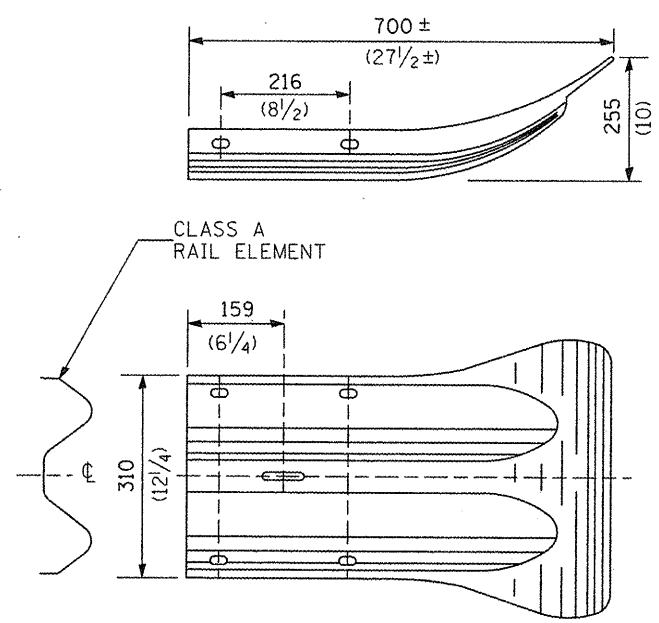


RAIL ELEMENT SPLICE

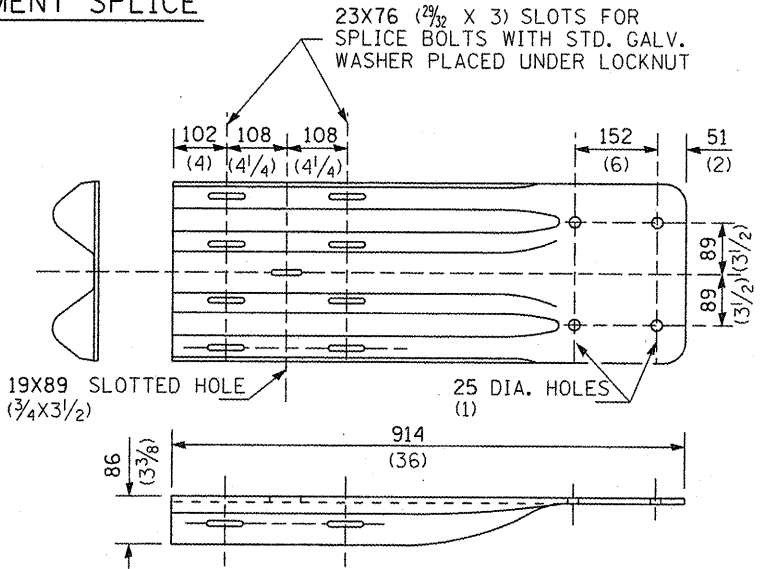


NOTE
ANCHOR PLATE T SHALL BE USED TO ATTACH CABLE ASSEMBLY TO GUARDRAIL WHEN REQUIRED ON TRAFFIC BARRIER TERMINALS.

ANCHOR PLATE T DETAILS



END SECTION



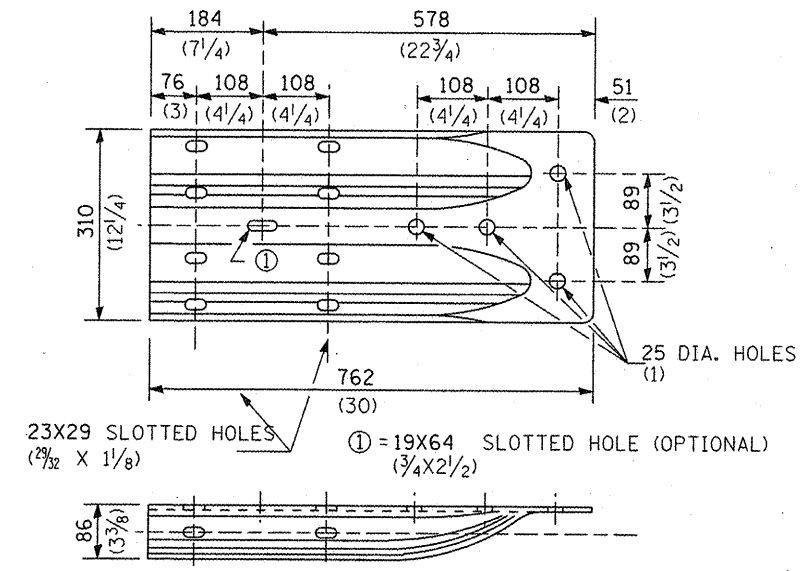
NOTE

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.

END SHOE

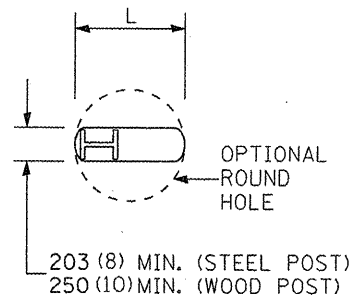


ALTERNATE END SHOE

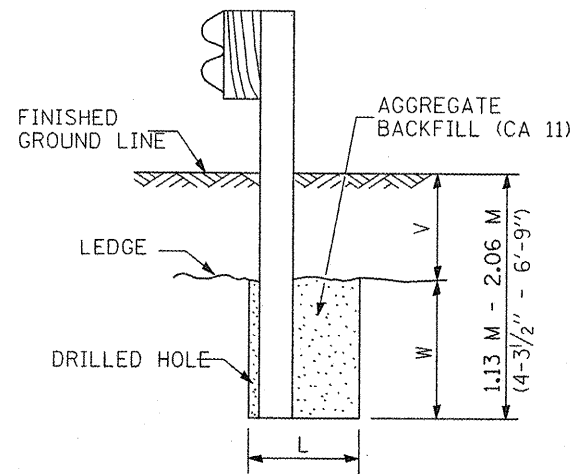
FILE NAME =	USER NAME = #USER#	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL PLATE BEAM GUARDRAIL DETAIL LOCATION 1	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - ---	REVISED - ---			•	123-1-J, (26,24)-J	**	17	16	
	PLOT SCALE = #SCALE#	CHECKED - ---	REVISED - ---			CONTRACT NO. 76D41					
	PLOT DATE = #DATE#	DATE - ---	REVISED - ---			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

*FAP 805/FAS 1780 **ST. CLAIR & CLINTON

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.



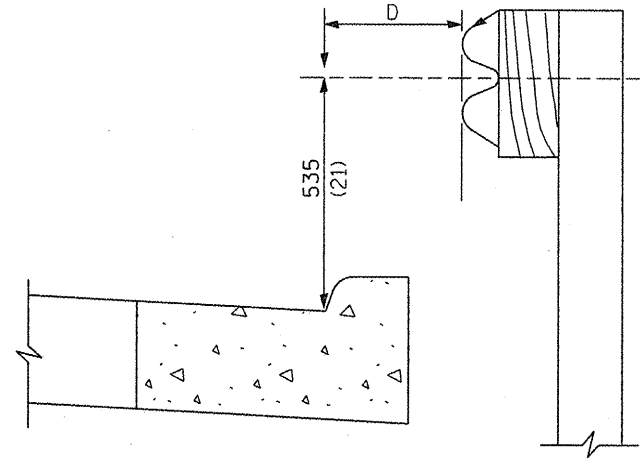
PLAN



ELEVATION

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

FOOTING FOR POST WHEN IMPERVIOUS
MATERIAL IS ENCOUNTERED



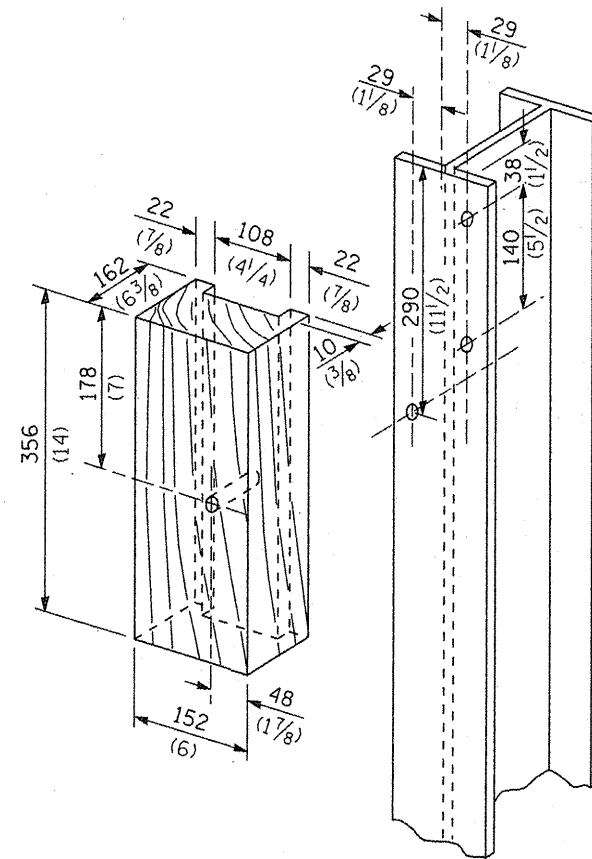
NOTE:

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

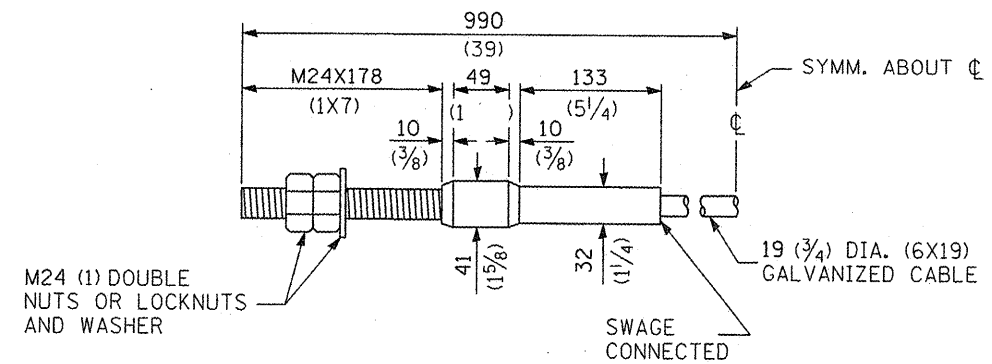
GUARDRAIL PLACED BEHIND CURB

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

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



WOOD BLOCK-OUT AND
STEEL POST DETAILS



CABLE ASSEMBLY

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

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILEL#		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL PLATE BEAM GUARDRAIL DETAIL
LOCATION 1

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

*FAP 805/FAS 1780

**ST. CLAIR & CLINTON

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	123-1-J, (26,24)-J	**	17	17
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76D41	