

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2013-046SR	MC HENRY	44	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 60W91		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

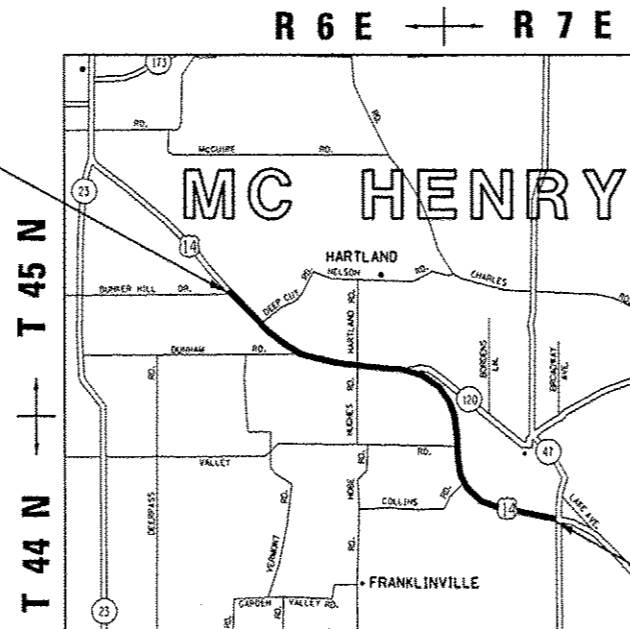
PROJECT LOCATED IN THE CITY OF WOODSTOCK

**PROPOSED
HIGHWAY PLANS**
F.A.P. 305 /US 14 (NORTHWEST HIGHWAY)
BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)
SHOULDERS, RUMBLE STRIPS AND GUARDRAIL
SECTION NO.: 2013-046 SR
PROJECT: ACHSIP-0305(040)
Mc HENRY COUNTY
C-91-400-13

D-91-400-13

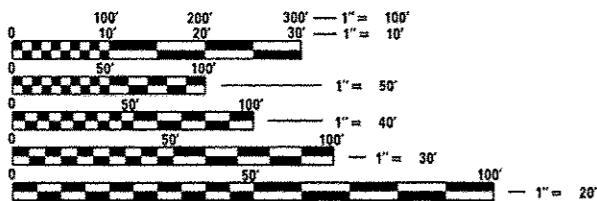


PROJECT BEGINS
STA 3+62



TRAFFIC DATA:
2011 ADT - 6850 TO 13500
SPEED LIMIT - 55 MPH

PROJECT ENDS
STA. 452+48



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: JENPAI CHANG (847) 705-4432
PROJECT MANAGER: KEN ENG (847) 705-4247

GROSS AND NET LENGTH OF PROJECT = 44886 LIN FT = 8.50 MILES

CONTRACT NO. 60W91

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED March 31, 2014
John Fortman
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
May 9, 2014
John D. Baranzelli, PE
ENGINEER OF DESIGN AND ENVIRONMENT
May 9, 2014
Omer Osman, PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

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		701421-06 LANE CLOSURE, MULTILANE, DAY OPERATION ONLY FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH TO 55 MPH
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GENERAL NOTES:

BEFORE STARTING ANY EXCAVATION THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR "CUAN" (CHICAGO UTILITY ALERT NETWORK) AT 312-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES, (48 HOURS NOTIFICATION IS REQUIRED).

10 FEET (3 METERS) TRANSITION SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES AND THE CITY OF WOODSTOCK.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING MACHINE IS SLOPED A MINIMUM (1:3).

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL CENTER AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL. (TC-13)

THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT (847) 715-8419. A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

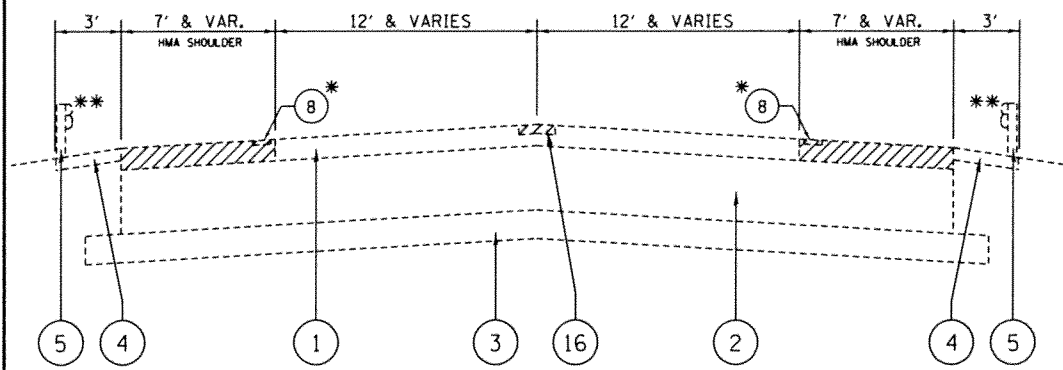
THE CONTRACTOR SHALL ONLY PERFORM WORK ON ONE SIDE OF THE ROADWAY AT ANY TIME WHEN WORKING ON THE TWO-LANE ROADWAY SECTION OF THE PROJECT.

THE CONTRACTOR SHALL SUSPEND GUARDRAIL REMOVAL OPERATIONS WHENEVER THE AMOUNT OF REMOVED GUARDRAIL EXCEEDS TWO DAYS PRODUCTION TO REPLACE THE GUARDRAIL.

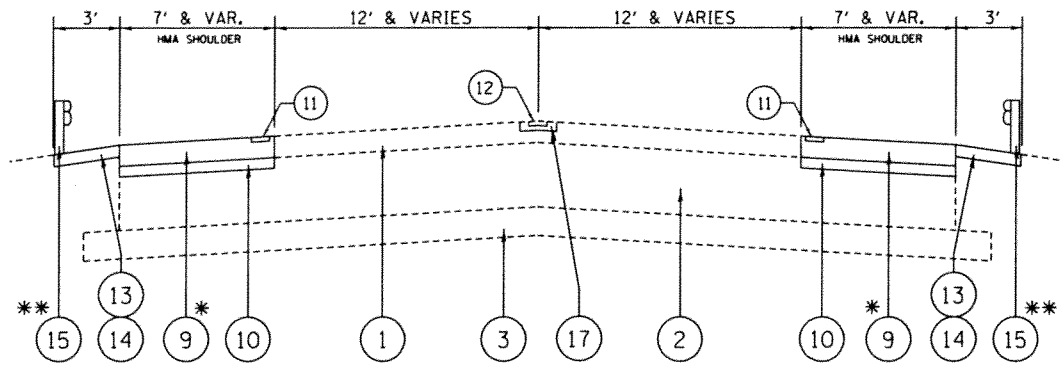
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PLT SCALE: 1/8"=1'-0"	CHECKED: -	REVISED: -	SCALE: SHEET NO. 1 OF 1 SHEETS			STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
PLT DATE: 3/27/2014	DATE: -	REVISED: -	CONTRACT NO. 60W91							

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE							
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005						CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005					
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SO YD	28946	28946						70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1					
40600895	CONSTRUCTING TEST STRIP	EACH	1	1						* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	24601	24601					
44004250	PAVED SHOULDER REMOVAL	SO YD	13670	13670						78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1685	1685					
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	2367	2367						* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	30	30					
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	28799	28799						* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	15	15					
*63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	2388	2388						78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1517	1517					
*63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2						X2020110	GRADING AND SHAPING SHOULDERS	UNIT	592	592					
*63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	15	15						X4406030	PARTIAL DEPTH REMOVAL, TYPE 1, 3"	SO YD	11481	11481					
63200310	GUARDRAIL REMOVAL	FOOT	1993	1993						X4421000	PARTIAL DEPTH PATCHING	TON	1929	1929					
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	94566	94566						X4810200	AGGREGATE SHOULDER REMOVAL	CU YD	6267	6267					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6						* X7800815	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 4 INCH	FOOT	44143	44143					
67100100	MOBILIZATION	L SUM	1	1						20030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4					
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1						70055400	RUMBLE STRIP	FOOT	34430	34430					
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1															

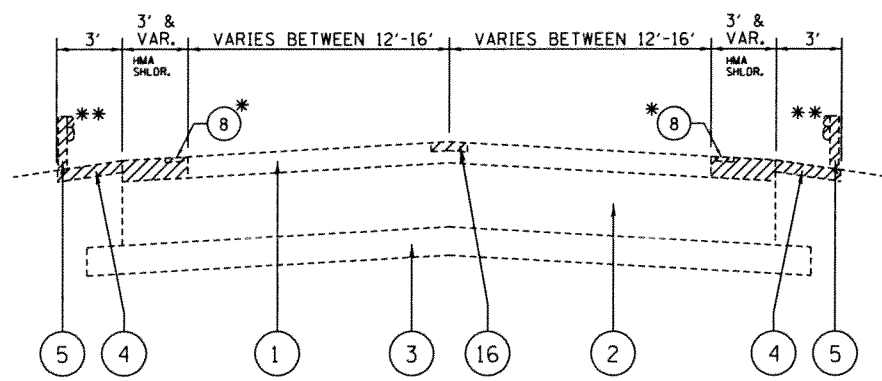
* SPECIALTY ITEMS
 NON-PARTICIPATING ITEMS



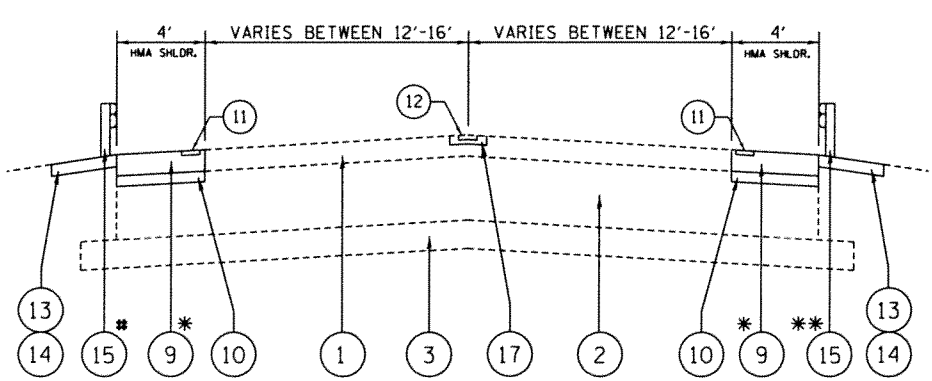
EXISTING TYPICAL SECTION
STA. 3+62 TO 4+88



PROPOSED TYPICAL SECTION
STA. 3+62 TO 4+88



EXISTING TYPICAL SECTION
STA. 4+88 TO 124+65
STA. 127+40 TO 176+56
STA. 231+93 TO 238+21
STA. 250+92 TO 292+92
STA. 311+95 TO 388+22
STA. 411+78 TO 437+40



PROPOSED TYPICAL SECTION
STA. 4+88 TO 125+64
STA. 127+40 TO 176+56
STA. 231+93 TO 238+21
STA. 250+92 TO 292+92
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STA. 411+78 TO 437+40

LEGEND:

- ① EXIST. BITUMINOUS SURFACE, ±6"
 - ② EXIST. P.C.C. PAVEMENT, ±9"
 - ③ EXIST. STABILIZED SUB-BASE
 - ④ EXIST. AGGREGATE SHOULDERS
 - ⑤ EXIST. GUARDRAIL
 - ⑥ EXIST. GRASS MEDIAN
 - ⑦ EXIST. BARRIER MEDIAN
 - ⑧ EXIST. RUMBLE STRIPS
 - ⑨ PROP. HOT-MIX ASPHALT SHOULDER, 8"
 - ⑩ PROP. SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
 - ⑪ PROP. SHOULDER RUMBLE STRIPS (8" WIDE)
 - ⑫ PROP. CENTERLINE RUMBLE STRIPS (16" WIDE)
 - ⑬ PROP. GRADING AND SHAPING SHOULDERS (WHERE NECESSARY)
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 - ⑯ PROP. PARTIAL DEPTH REMOVAL, 3"
 - ⑰ PROP. PARTIAL DEPTH PATCHING
- ▨ DENOTES ITEMS TO BE REMOVED

MIXTURE REQUIREMENTS FOR SHOULDER RECONSTRUCTION

MIXTURE TYPE	AIR VOIDS @ Ndes	OMP
HOT-MIX ASPHALT BINDER COURSE, 6" (HMA BINDER, IL-19MM)	4% @ 70 GYR.	OCP
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 2" (IL-9.5MM)	4% @ 70 GYR.	OCP

OMP DESIGNATION: QUALITY CONTROL FOR PERFORMANCE (OCP)

NOTES:

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

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

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

NOTE:

****EXISTING GUARDRAIL**

-WESTBOUND
STA. 3+62 TO 4+88
STA. 29+28 TO 33+65
STA. 88+41 TO 89+88
STA. 119+31 TO 123+26
STA. 136+86 TO 138+32

-EASTBOUND
STA. 3+62 TO 4+90
STA. 86+30 TO 90+28
STA. 136+22 TO 137+66
STA. 291+85 TO 292+92
STA. 292+92 TO 305+07

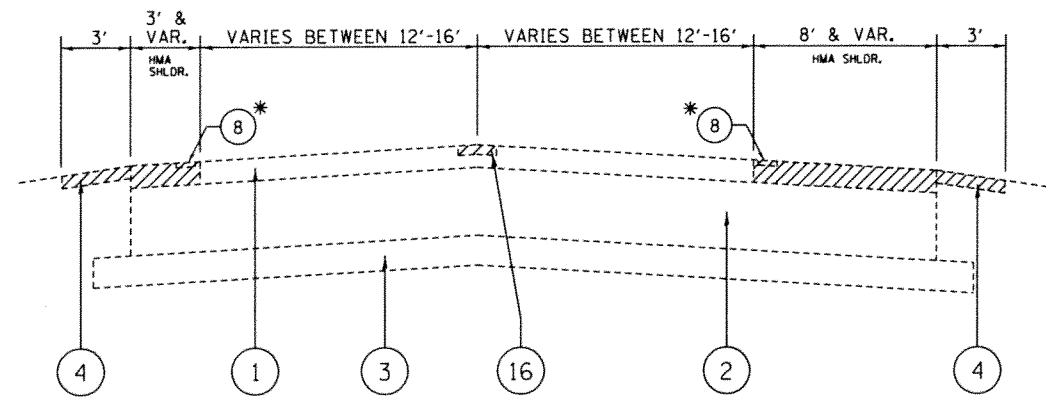
PROPOSED GUARDRAIL

-WESTBOUND
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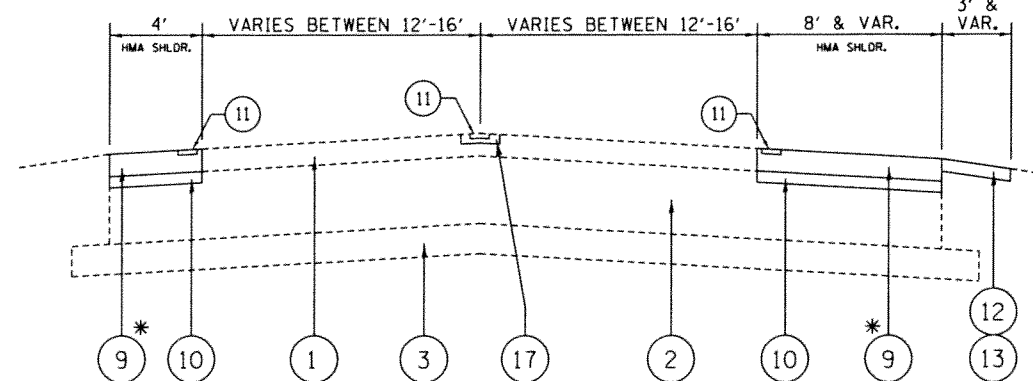
-EASTBOUND
STA. 3+62 TO 4+90
STA. 86+30 TO 90+28
STA. 136+22 TO 137+66

***EXISTING RUMBLE STRIPS**
STA. 3+46 TO 127+40

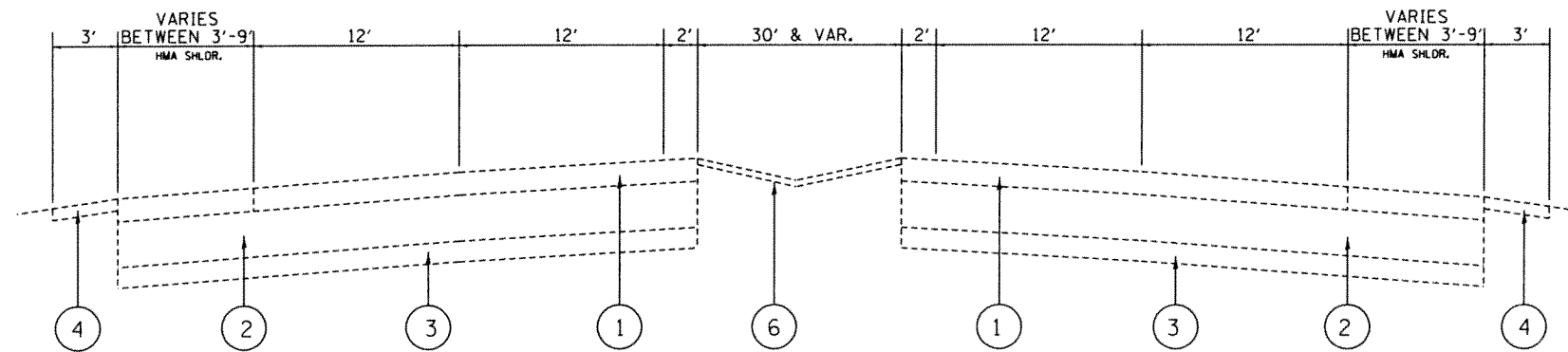
THE PROPOSED GUARDRAIL MUST BE REINSTALLED WITHIN 5 DAYS OF THE EXISTING GUARDRAIL



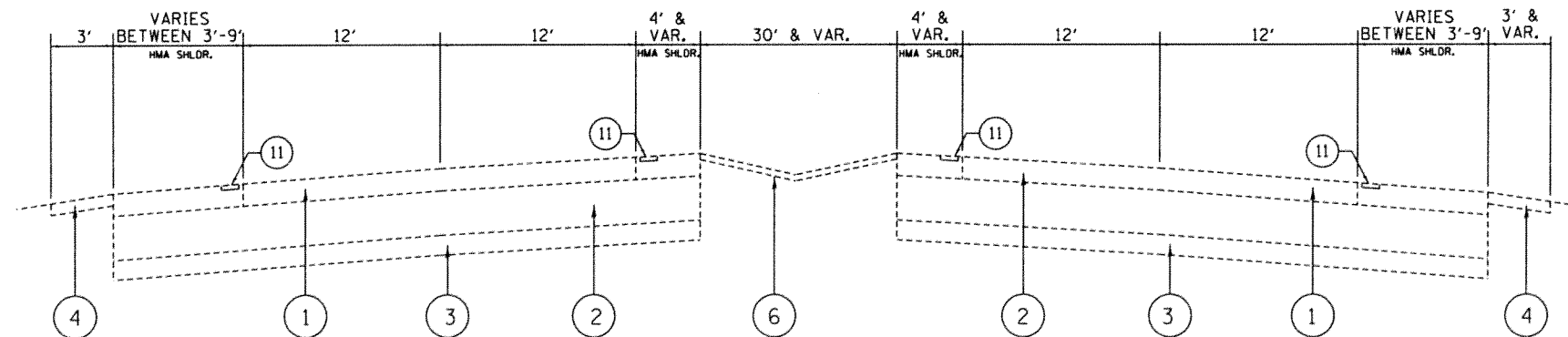
EXISTING TYPICAL SECTION
STA. 124+65 TO 127+40



PROPOSED TYPICAL SECTION
STA. 125+64 TO 127+40



EXISTING TYPICAL SECTION
STA. 176+56 TO 192+84
STA. 200+46 TO 205+00
STA. 213+83 TO 231+93



PROPOSED TYPICAL SECTION
STA. 176+56 TO 192+84
STA. 200+46 TO 205+00
STA. 213+83 TO 231+93

LEGEND:

- ① EXIST. BITUMINOUS SURFACE, ±6"
- ② EXIST. P.C.C. PAVEMENT, ±9"
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- ⑰ PROP. PARTIAL DEPTH PATCHING
- ▨ DENOTES ITEMS TO BE REMOVED

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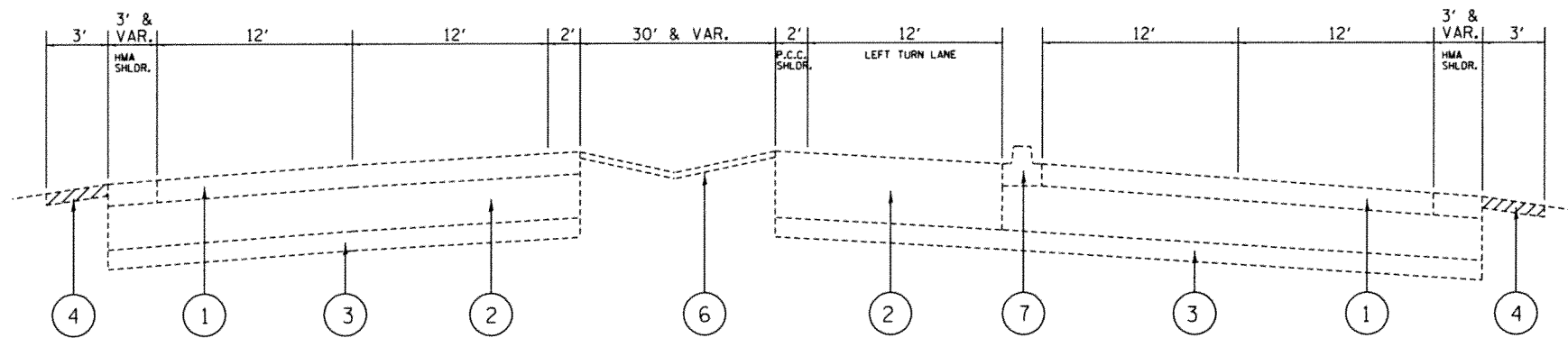
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED TYPICAL SECTIONS
FAP 305/US 14 (NORTHWEST HWY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

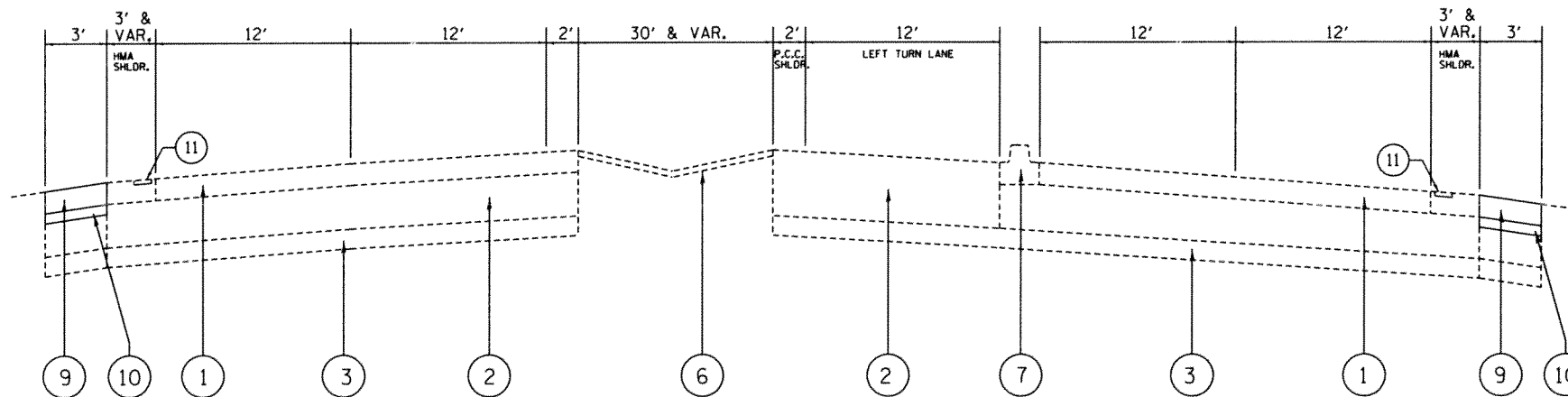
F.A.P. RTE. 305	SECTION 2013-046 SR	COUNTY MC HENRY	TOTAL SHEETS 44	SHEET NO. 5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W91	

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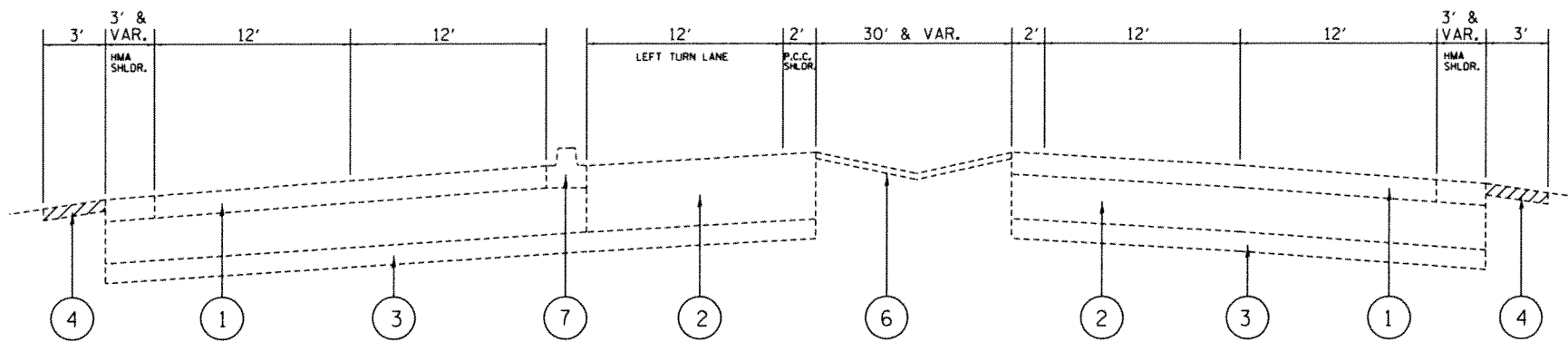


EXISTING TYPICAL SECTION
 STA. 192+84 TO 196+73
 STA. 205+00 TO 207+18

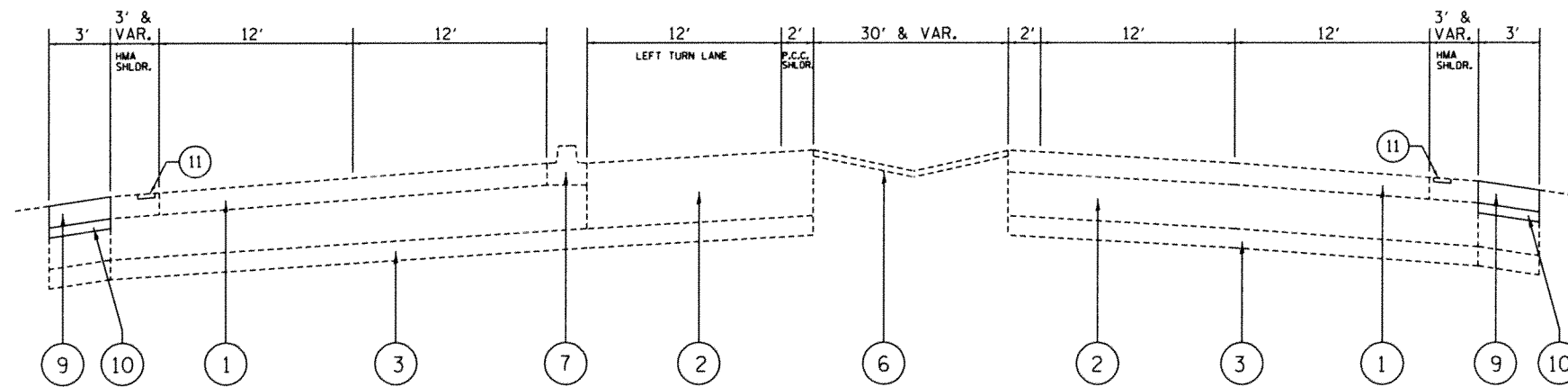


PROPOSED TYPICAL SECTION
 STA. 192+84 TO 196+73
 STA. 205+00 TO 207+18

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PLOT SCALE = 100.0000 1/4 in.	PLOT DATE = 3/27/2014	CHECKED -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60W91		
		DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



EXISTING TYPICAL SECTION
STA. 196+73 TO 200+46

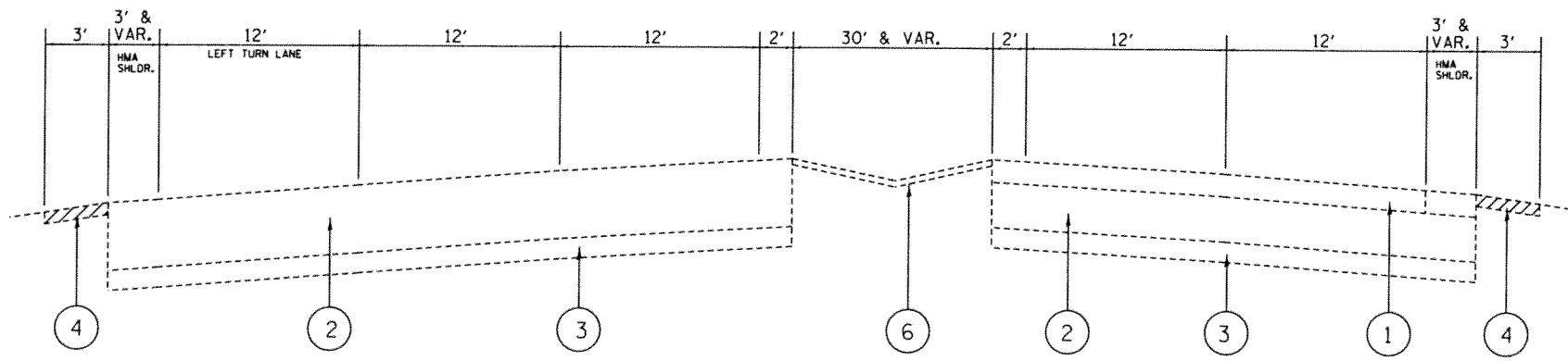


PROPOSED TYPICAL SECTION
STA. 196+73 TO 200+46

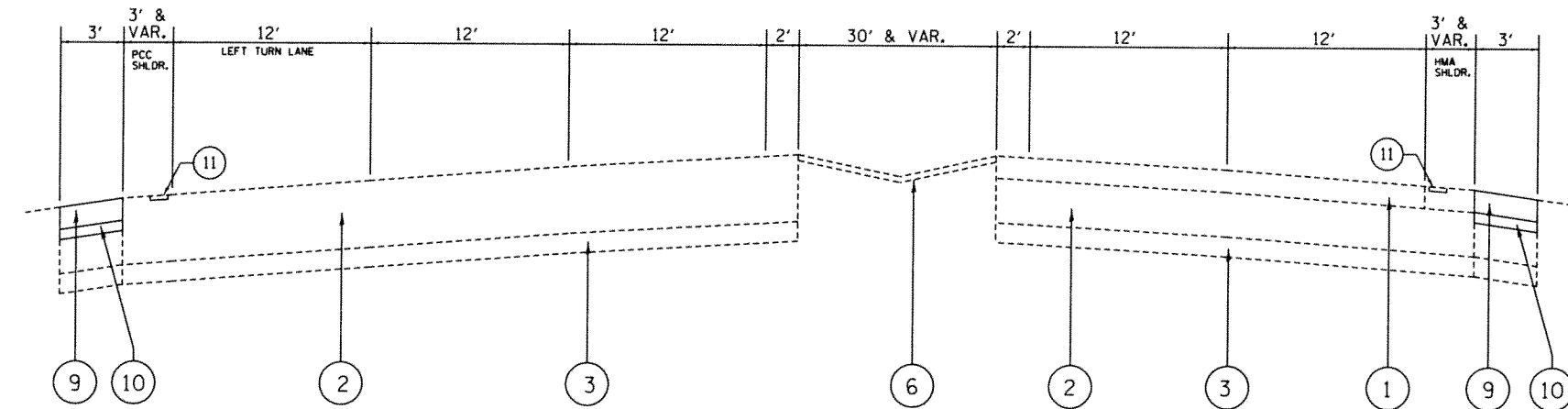
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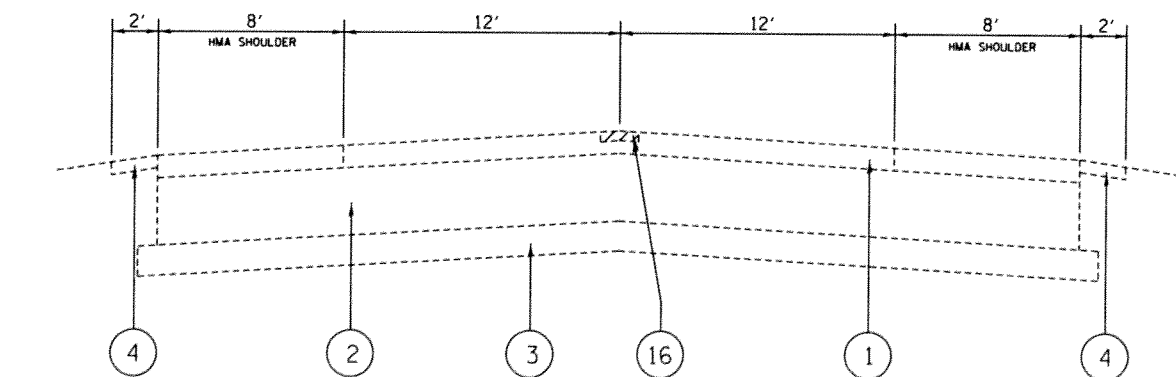
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		DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



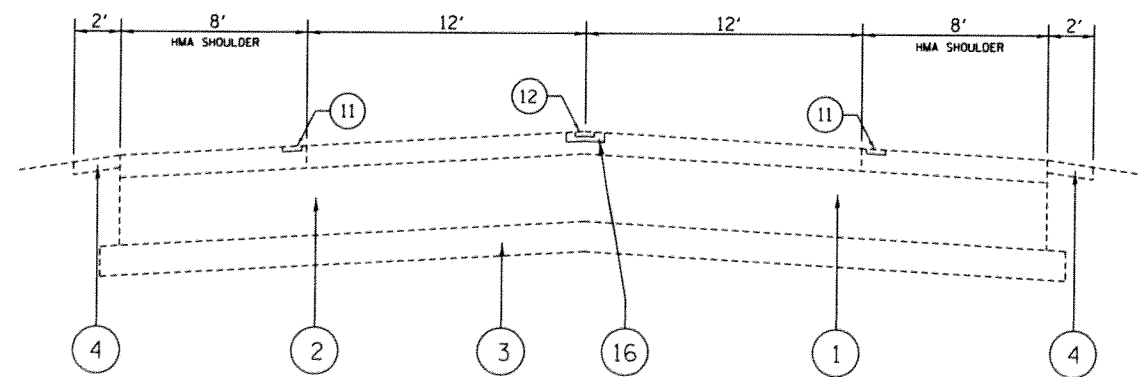
EXISTING TYPICAL SECTION
STA. 207+18 TO 213+83



PROPOSED TYPICAL SECTION
STA. 207+18 TO 213+83



EXISTING TYPICAL SECTION
STA. 238+21 TO 250+92

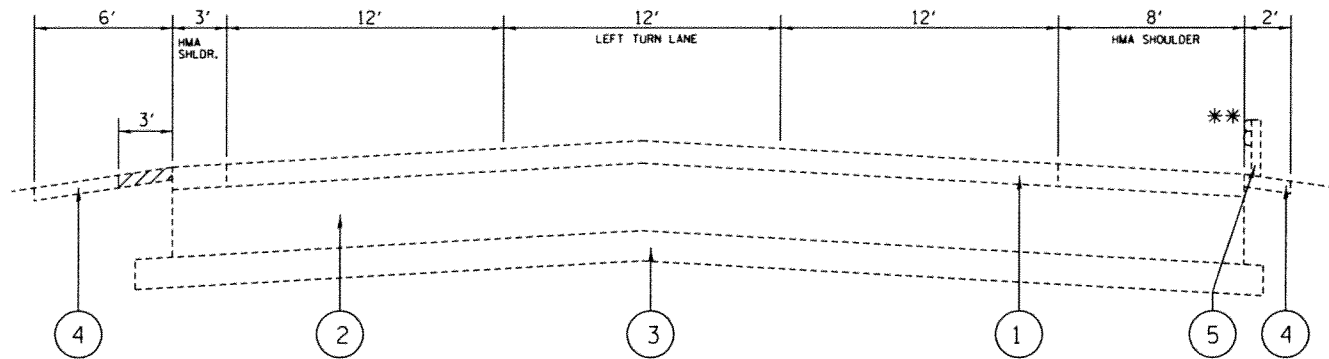


PROPOSED TYPICAL SECTION
STA. 238+21 TO 250+92

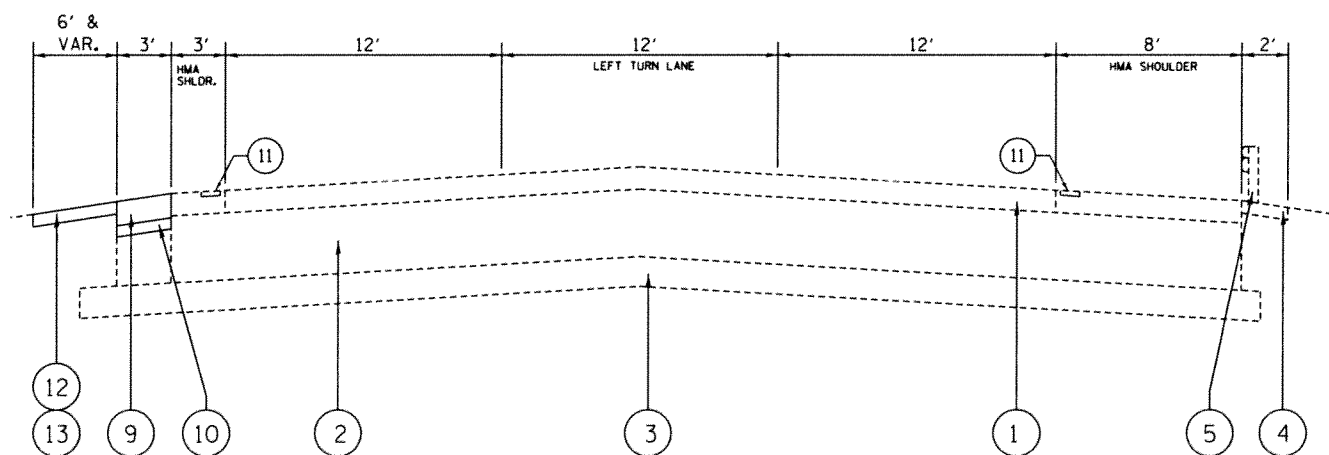
LEGEND:

- ① EXIST. BITUMINOUS SURFACE, ±6"
- ② EXIST. P.C.C. PAVEMENT, ±9"
- ③ EXIST. STABILIZED SUB-BASE
- ④ EXIST. AGGREGATE SHOULDERS
- ⑤ EXIST. GUARDRAIL
- ⑥ EXIST. GRASS MEDIAN
- ⑦ EXIST. BARRIER MEDIAN
- ⑧ EXIST. RUMBLE STRIPS
- ⑨ PROP. HOT-MIX ASPHALT SHOULDER, 8"
- ⑩ PROP. SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- ⑪ PROP. SHOULDER RUMBLE STRIPS (8" WIDE)
- ⑫ PROP. CENTERLINE RUMBLE STRIPS (16" WIDE)
- ⑬ PROP. GRADING AND SHAPING SHOULDERS (WHERE NECESSARY)
- ⑭ PROP. AGGREGATE WEDGE SHOULDERS, TYPE B (WHERE NECESSARY)
- ⑮ PROP. STEEL PLATE BEAM GUARDRAIL
- ⑯ PROP. PARTIAL DEPTH REMOVAL, 3"
- ⑰ PROP. PARTIAL DEPTH PATCHING
- ▨ DENOTES ITEMS TO BE REMOVED

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\p\do\state\pa\0369663\0148	13-sh-t-cover.dgn	DRAWN -	REVISED -		FAP 305/US 14 (NORTHWEST HWY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)	305	2013-046 SR	MC HENRY	44	8	
	PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60W91		
	PLOT DATE = 3/27/2014	DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



EXISTING TYPICAL SECTION
STA. 292+92 TO 311+95

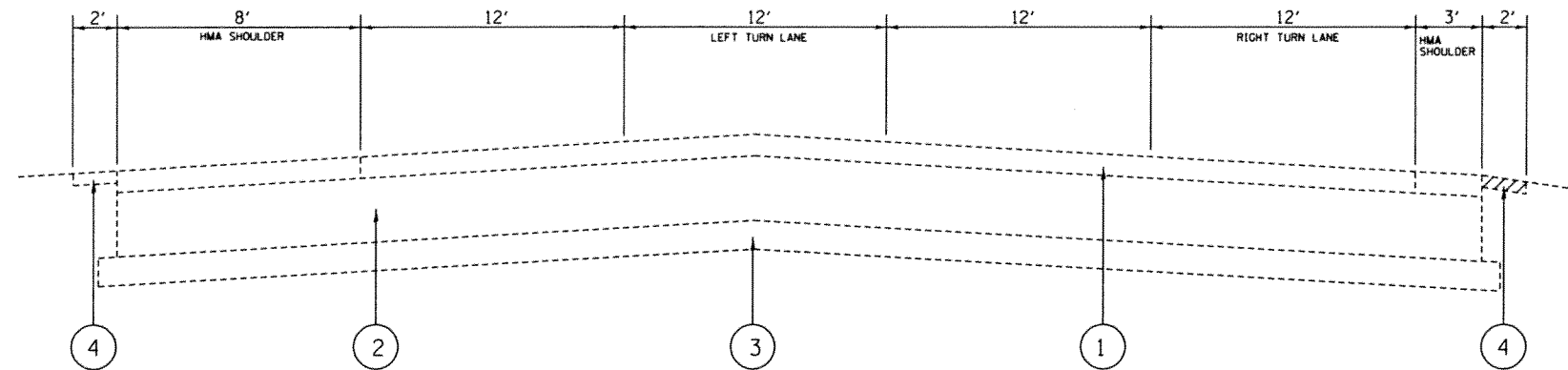


PROPOSED TYPICAL SECTION
STA. 292+92 TO 311+95

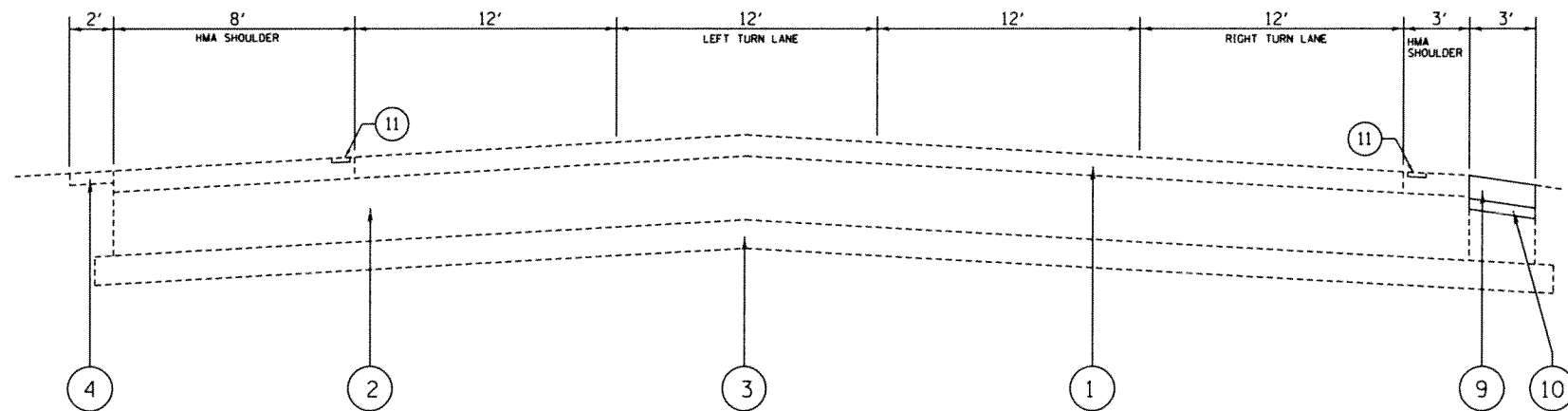
LEGEND:

- ① EXIST. BITUMINOUS SURFACE, ±6"
- ② EXIST. P.C.C. PAVEMENT, ±9"
- ③ EXIST. STABILIZED SUB-BASE
- ④ EXIST. AGGREGATE SHOULDERS
- ⑤ EXIST. GUARDRAIL
- ⑥ EXIST. GRASS MEDIAN
- ⑦ EXIST. BARRIER MEDIAN
- ⑧ EXIST. RUMBLE STRIPS
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- ⑯ PROP. PARTIAL DEPTH REMOVAL, 3"
- ⑰ PROP. PARTIAL DEPTH PATCHING
- ▨ DENOTES ITEMS TO BE REMOVED

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\p\sidot\stedpa\d0369663\0148	13-shr-cover.dgn	DRAWN -	REVISED -		FAP 305/US 14 (NORTHWEST HWY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)	305	2013-046 SR	MC HENRY	44	9	
	PLOT SCALE = 100.0000 1/1 in.	CHECKED -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 60W91			
	PLOT DATE = 3/27/2014	DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



EXISTING TYPICAL SECTION
STA. 388+22 TO 399+63



PROPOSED TYPICAL SECTION
STA. 388+22 TO 399+63

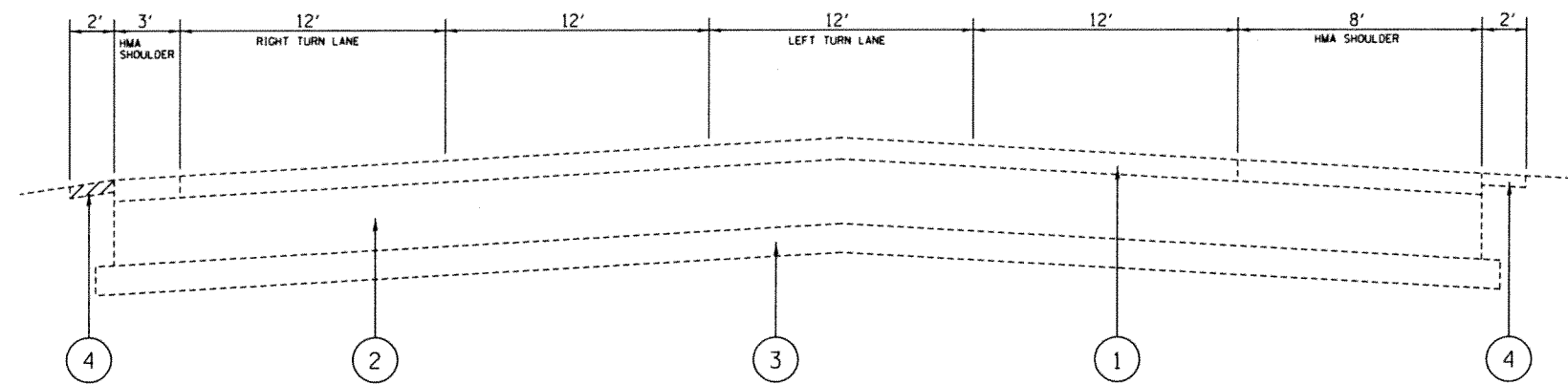
LEGEND:

- ① EXIST. BITUMINOUS SURFACE, ±6"
- ② EXIST. P.C.C. PAVEMENT, ±9"
- ③ EXIST. STABILIZED SUB-BASE
- ④ EXIST. AGGREGATE SHOULDERS
- ⑤ EXIST. GUARDRAIL
- ⑥ EXIST. GRASS MEDIAN
- ⑦ EXIST. BARRIER MEDIAN
- ⑧ EXIST. RUMBLE STRIPS
- ⑨ PROP. HOT-MIX ASPHALT SHOULDER, 8"
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- ⑮ PROP. STEEL PLATE BEAM GUARDRAIL
- ⑯ PROP. PARTIAL DEPTH REMOVAL, 3"
- ⑰ PROP. PARTIAL DEPTH PATCHING
- ▨ DENOTES ITEMS TO BE REMOVED

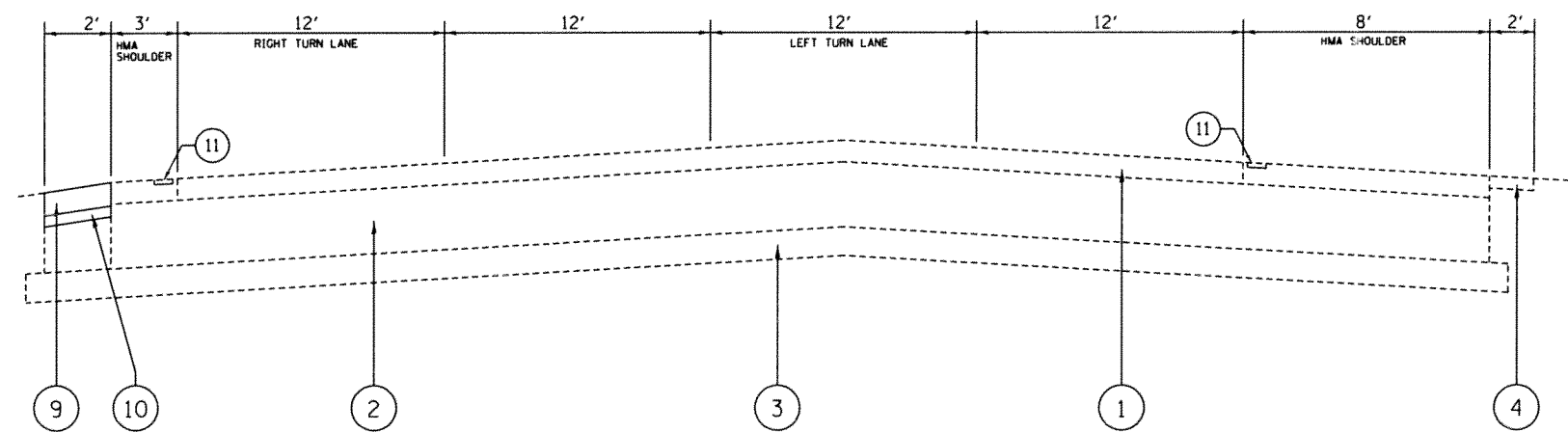
FILE NAME : c:\pw_work\pwwork\steedpa\0369663\0148	USER NAME : steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000 1/4" = 1'-0"	DRAWN -	REVISED -		FAP 305/US 14 (NORTHWEST HMY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)	305	2013-046 SR	MC HENRY	44	10		
PLOT DATE = 3/27/2014	CHECKED -	REVISED -	SCALE:		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60W91				
	DATE -	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									

LEGEND:

- ① EXIST. BITUMINOUS SURFACE, ±6"
- ② EXIST. P.C.C. PAVEMENT, ±9"
- ③ EXIST. STABILIZED SUB-BASE
- ④ EXIST. AGGREGATE SHOULDERS
- ⑤ EXIST. GUARDRAIL
- ⑥ EXIST. GRASS MEDIAN
- ⑦ EXIST. BARRIER MEDIAN
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- ⑨ PROP. HOT-MIX ASPHALT SHOULDER, 8"
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- ⑯ PROP. PARTIAL DEPTH REMOVAL, 3"
- ⑰ PROP. PARTIAL DEPTH PATCHING
- ▨ DENOTES ITEMS TO BE REMOVED

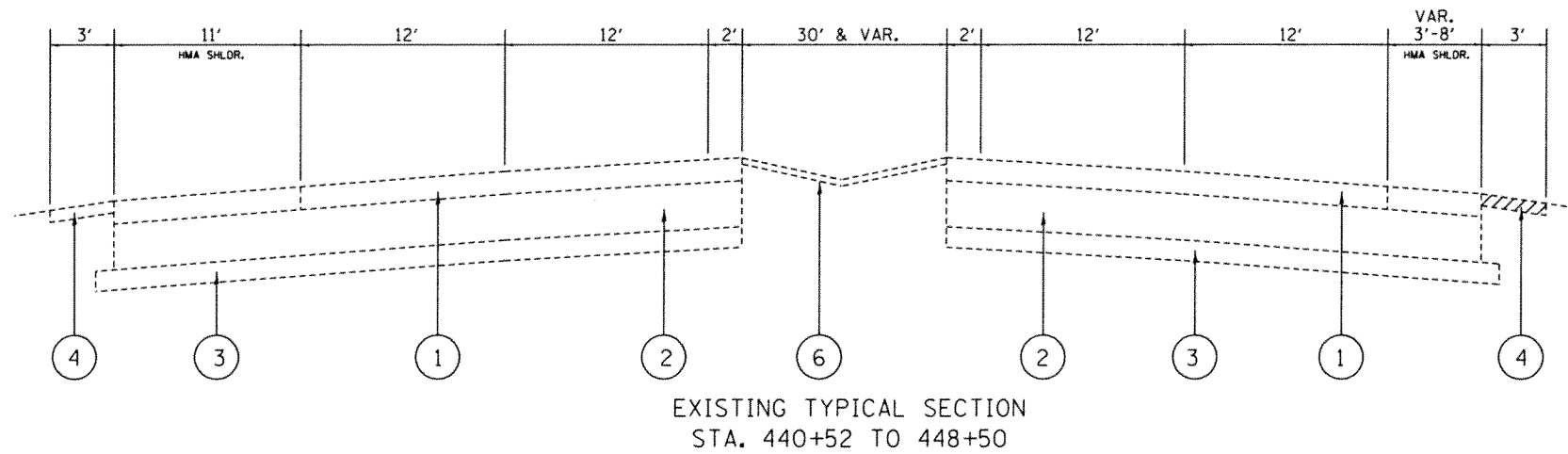


EXISTING TYPICAL SECTION
STA. 399+63 TO 411+78

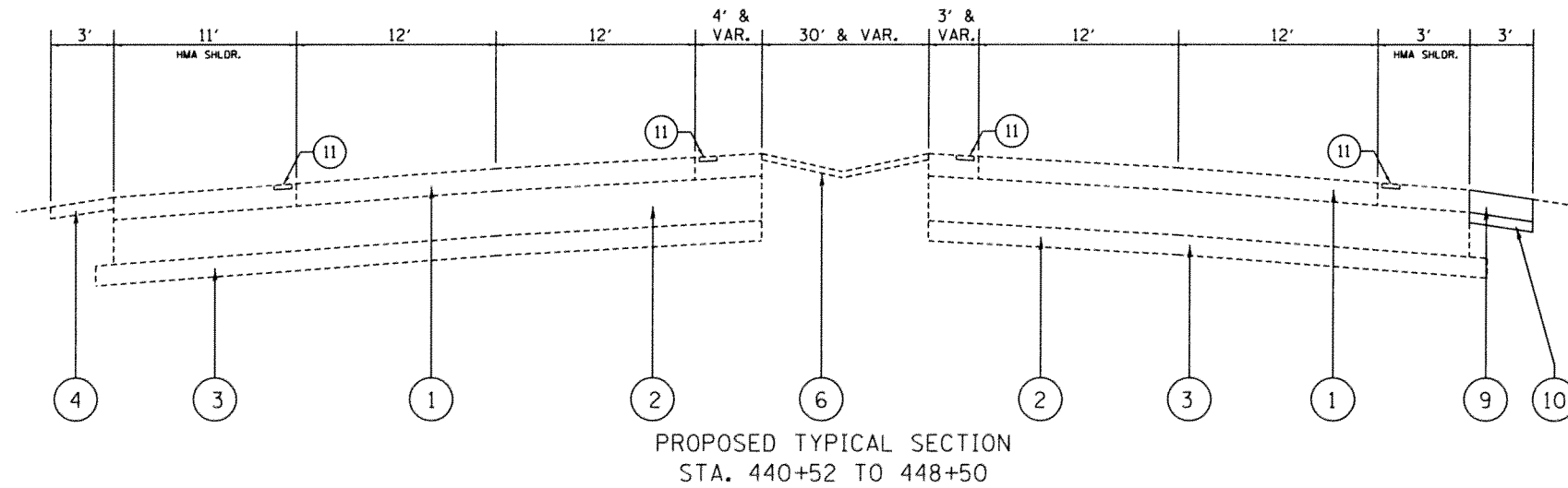


PROPOSED TYPICAL SECTION
STA. 399+63 TO 411+78

FILE NAME *	USER NAME : steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\pwwdot\steedpa\80369653\0148	13-sht-cover.dgn	DRAWN -	REVISED -		FAP 305/US 14 (NORTHWEST HWY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)	305	2013-046 SR	MC HENRY	44	11
	PLOT SCALE = 100.0000 1/4 in.	CHECKED -	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.	CONTRACT NO. 60W91				
	PLOT DATE = 3/27/2014	DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



EXISTING TYPICAL SECTION
STA. 440+52 TO 448+50



PROPOSED TYPICAL SECTION
STA. 440+52 TO 448+50

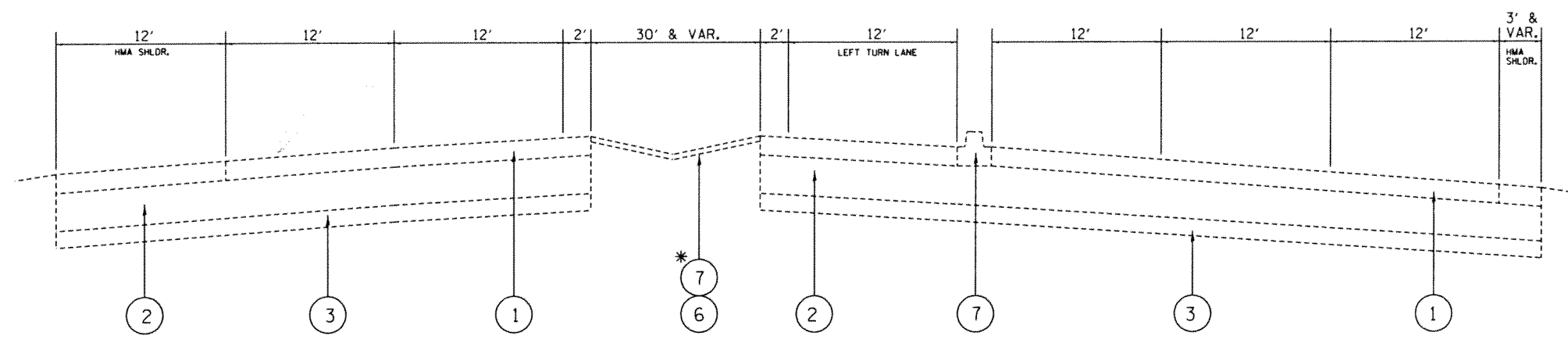
LEGEND:

- ① EXIST. BITUMINOUS SURFACE, ±6"
- ② EXIST. P.C.C. PAVEMENT, ±9"
- ③ EXIST. STABILIZED SUB-BASE
- ④ EXIST. AGGREGATE SHOULDERS
- ⑤ EXIST. GUARDRAIL
- ⑥ EXIST. GRASS MEDIAN
- ⑦ EXIST. BARRIER MEDIAN
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- ⑯ PROP. PARTIAL DEPTH REMOVAL, 3"
- ⑰ PROP. PARTIAL DEPTH PATCHING
- ▨ DENOTES ITEMS TO BE REMOVED

FILE NAME = c:\pw_work\p\dot\stedpa\d0369663\0148	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-sht-cover.dgn	DRAWN -	REVISED -		FAP 305/US 14 (NORTHWEST HWY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)			305	2013-046 SR	MC HENRY	44	12
PLOT SCALE = 100,0000 1/2 in.	CHECKED -	REVISED -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60W91			
PLOT DATE = 3/27/2014	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

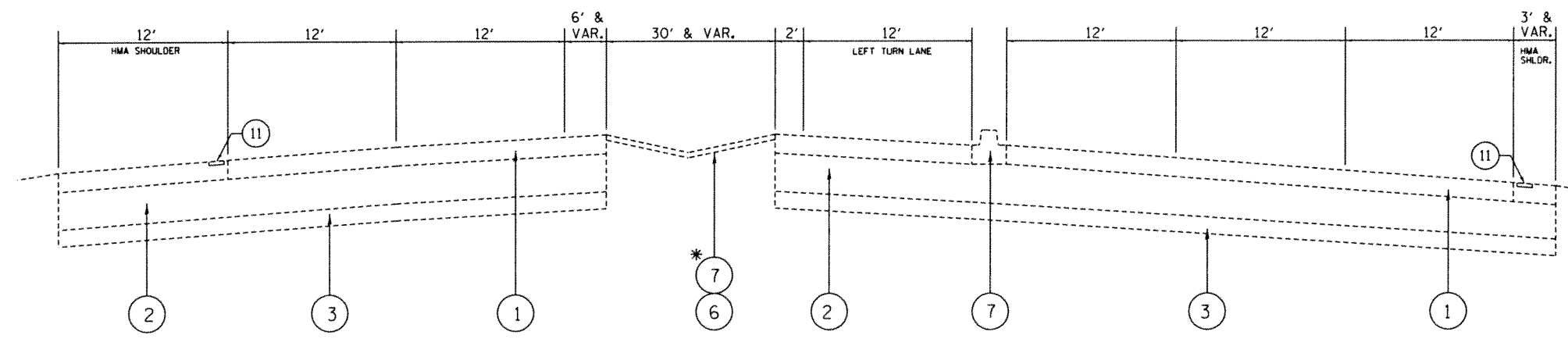
LEGEND:

- ① EXIST. BITUMINOUS SURFACE, ±6"
 - ② EXIST. P.C.C. PAVEMENT, ±9"
 - ③ EXIST. STABILIZED SUB-BASE
 - ④ EXIST. AGGREGATE SHOULDERS
 - ⑤ EXIST. GUARDRAIL
 - ⑥ EXIST. GRASS MEDIAN
 - ⑦ EXIST. BARRIER MEDIAN
 - ⑧ EXIST. RUMBLE STRIPS
 - ⑨ PROP. HOT-MIX ASPHALT SHOULDER, 8"
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 - ⑯ PROP. PARTIAL DEPTH REMOVAL, 3"
 - ⑰ PROP. PARTIAL DEPTH PATCHING
- ▨ DENOTES ITEMS TO BE REMOVED

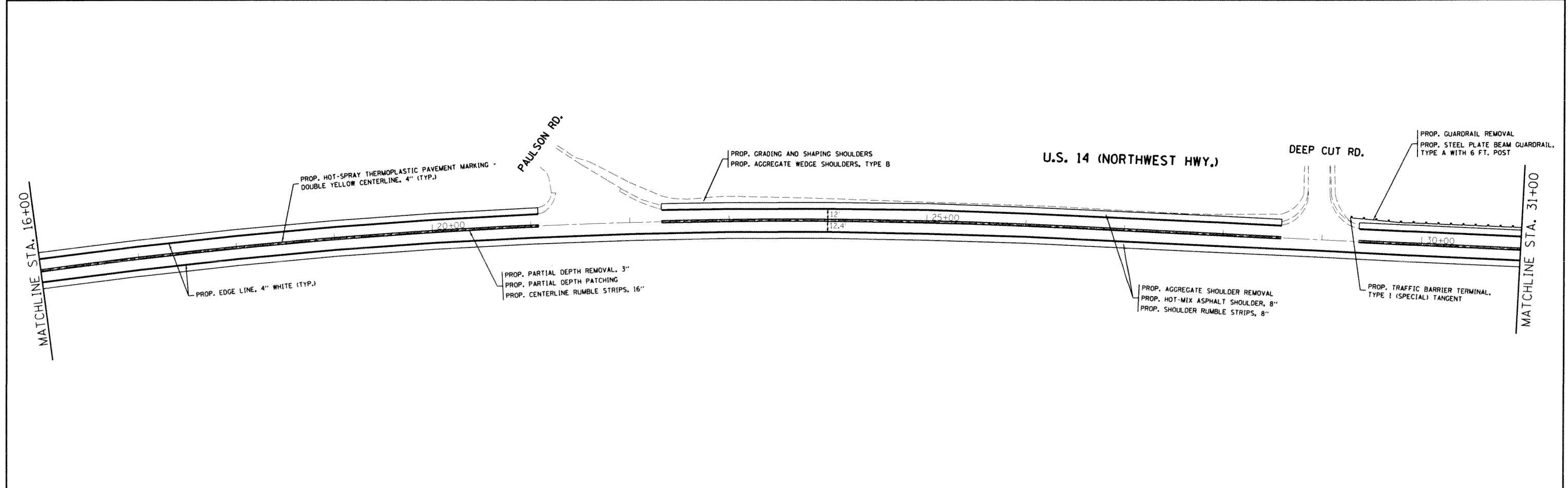
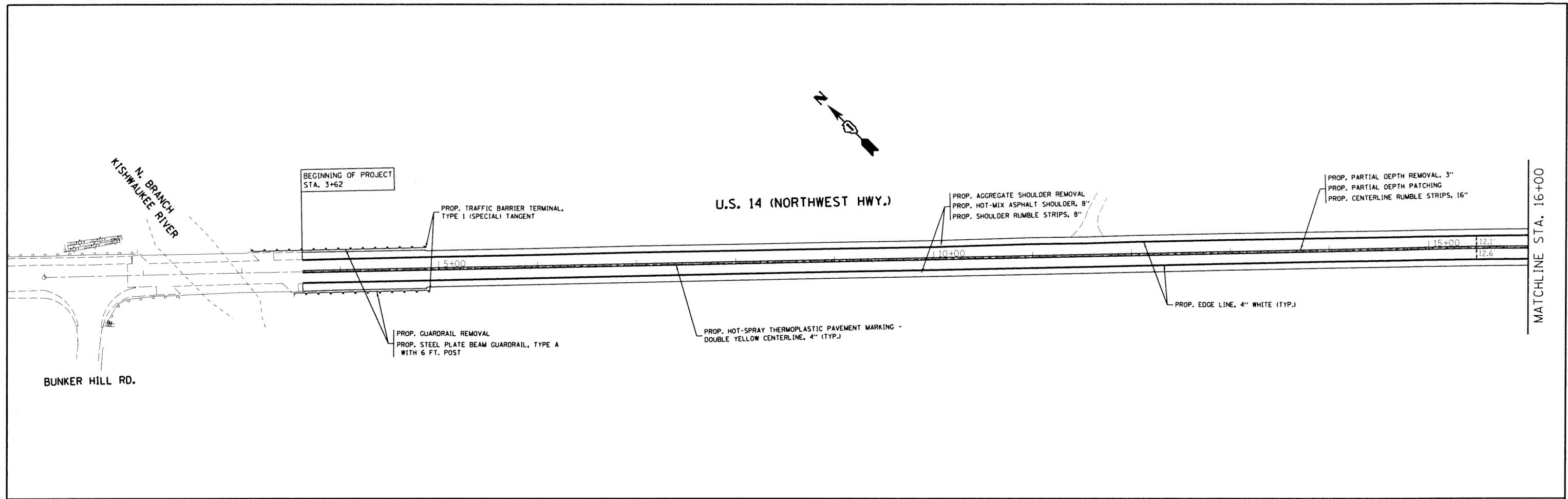


EXISTING TYPICAL SECTION
STA. 448+50 TO 452+48

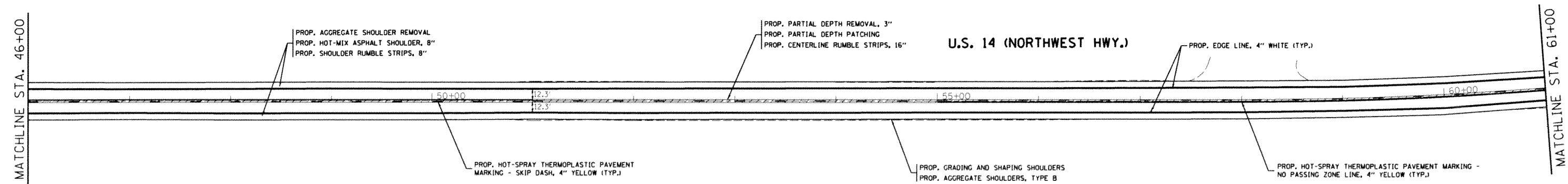
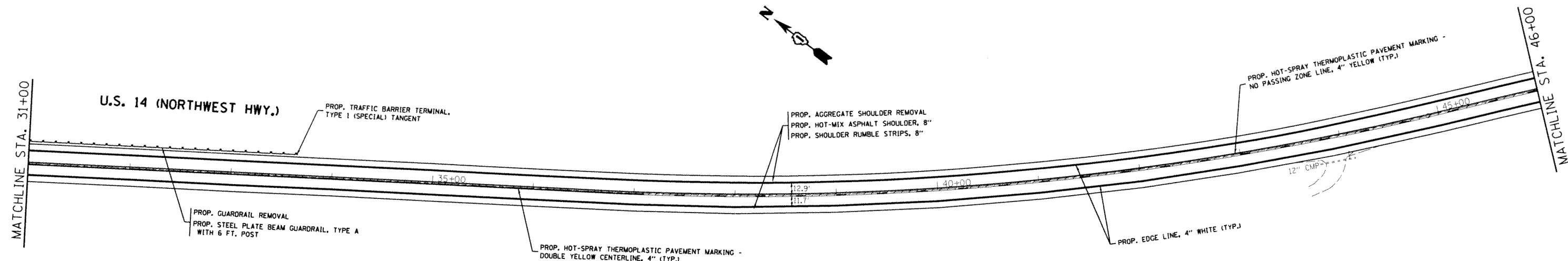
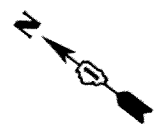
*NOTE:
EXIST. BARRIER MEDIAN
STA. 452+02 TO 453+12



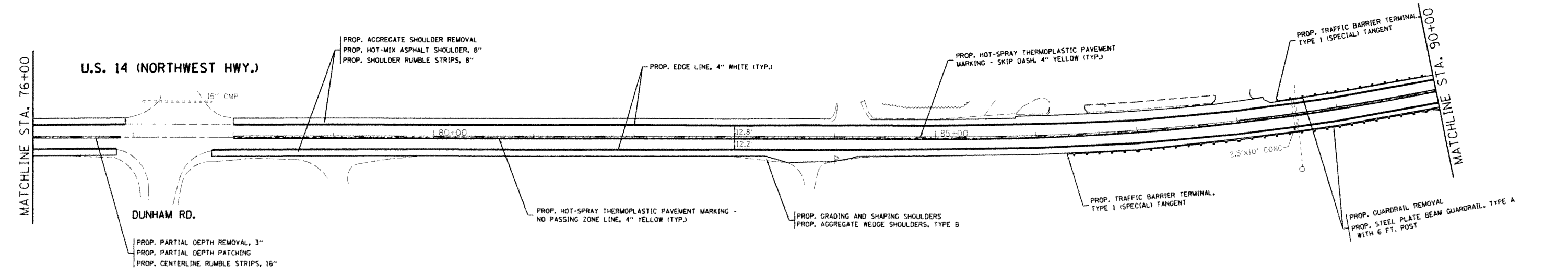
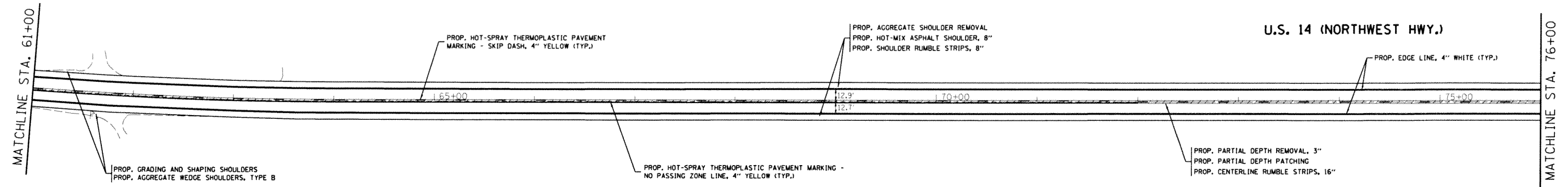
PROPOSED TYPICAL SECTION
STA. 448+50 TO 452+48



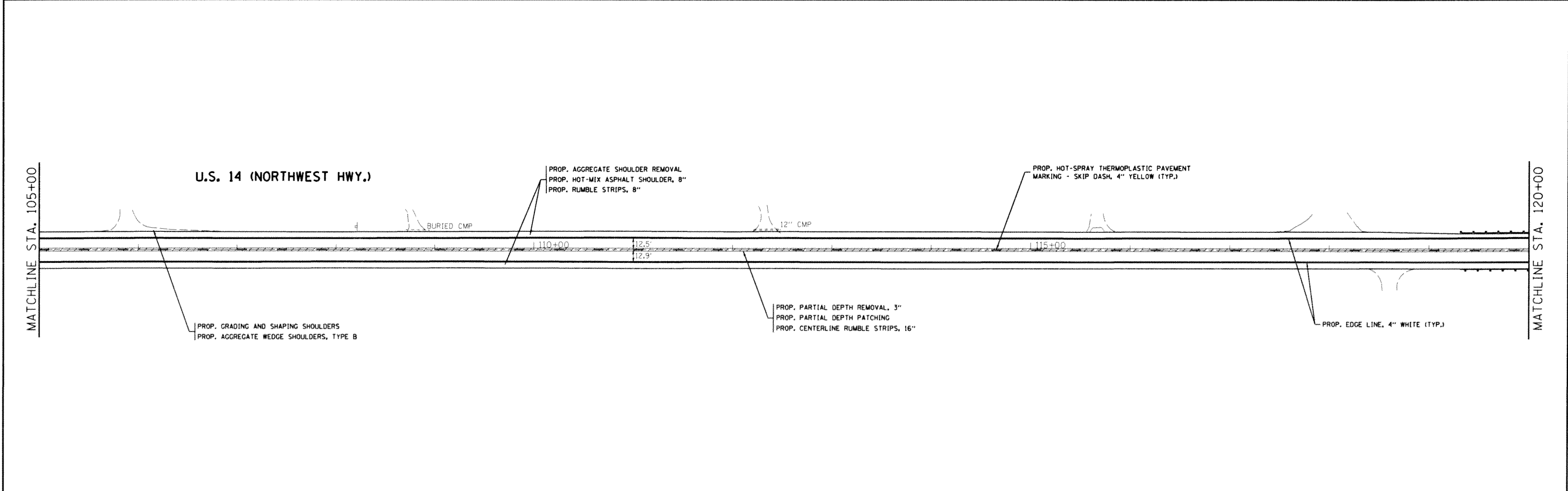
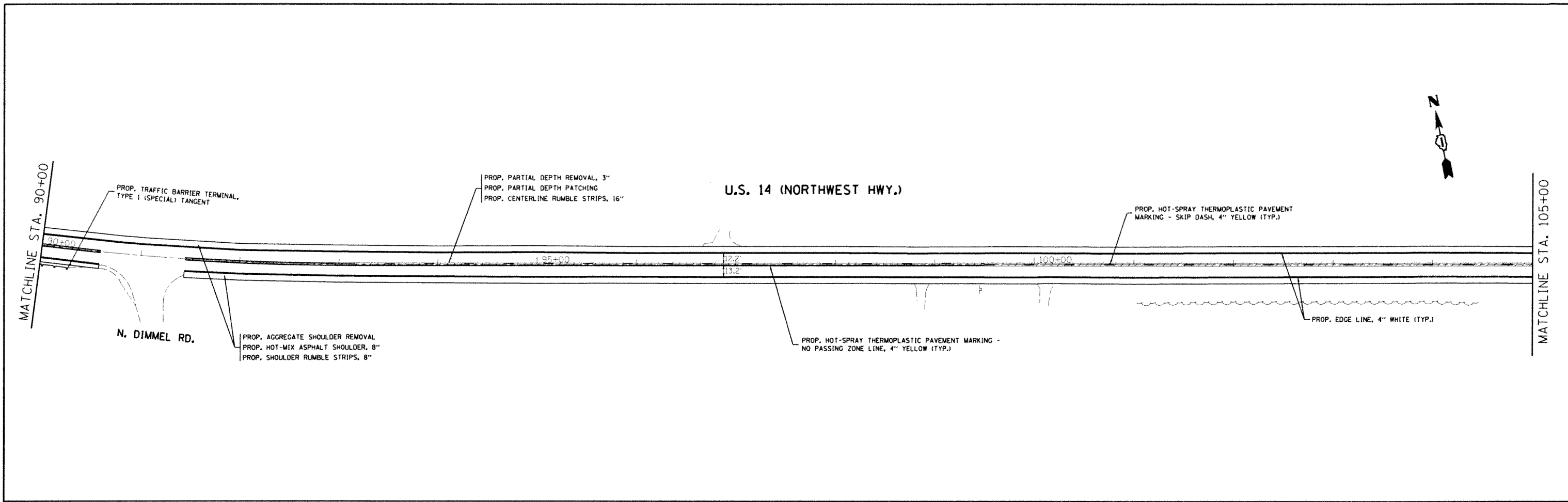
FILE NAME =	USER NAME = steedpe	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLANS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\stedpe\d0369663\0148	13-shr-cover.dgn	DRAWN -	REVISED -		FAP 305/US 14 (NORTHWEST HWY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)				305	2013-046 SR	MCHENRY	44	14	
Default	PLOT SCALE = 100.0000 1/ in.	CHECKED -	REVISED -		SCALE: 1"=50'				SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60W91
	PLOT DATE = 3/27/2014	DATE -	REVISED -						ILLINOIS FED. AID PROJECT					



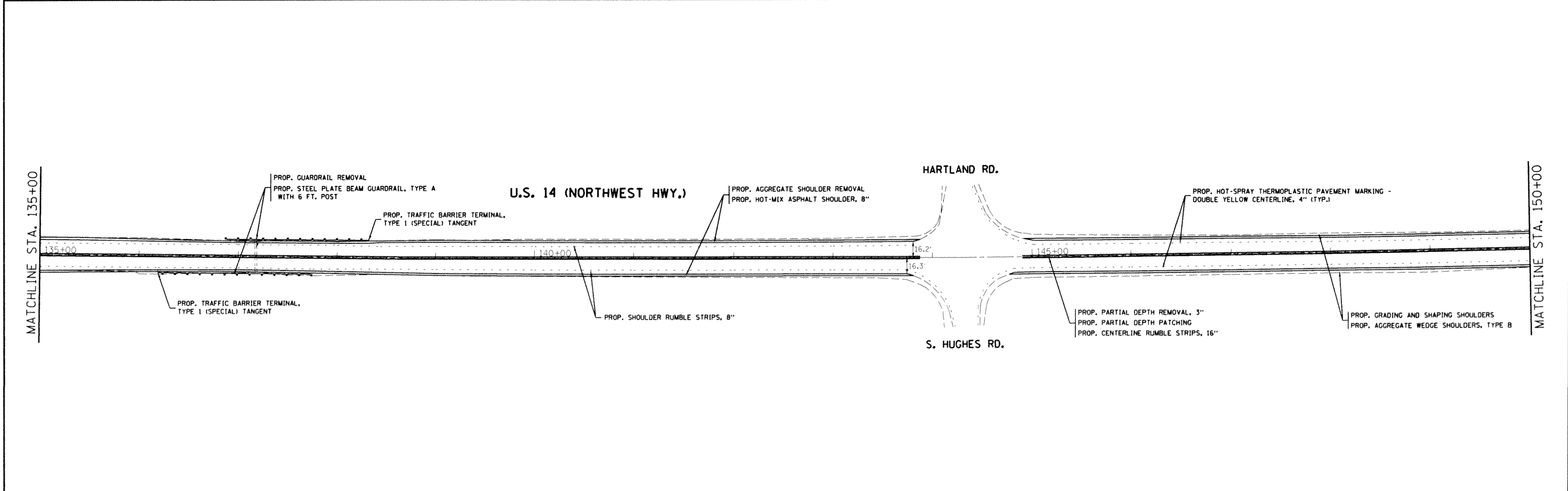
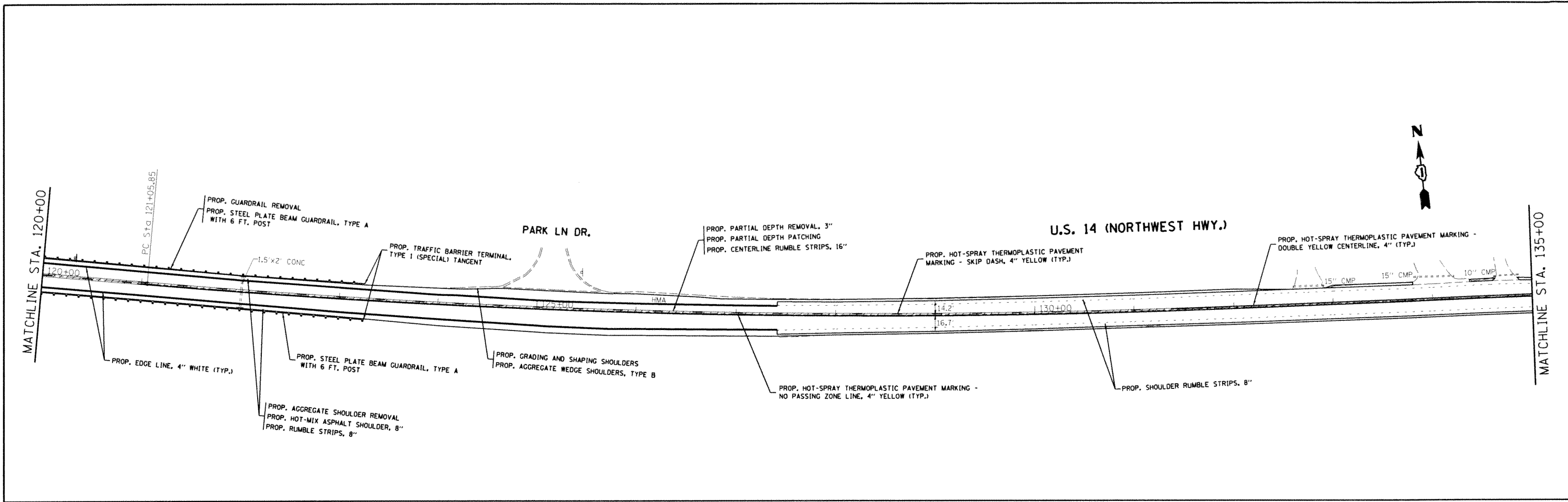
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c:\pwwork\psidot\stedpa\0369663\0148	13-shrt-cover.dgn	DRAWN -	REVISED -		FAP 305/US 14 (NORTHWEST HWY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)				305	2013-046 SR	MCHENRY	44	15
Default	PLOT SCALE = 100.0000 1/2 in.	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 60W91	
	PLOT DATE = 3/27/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



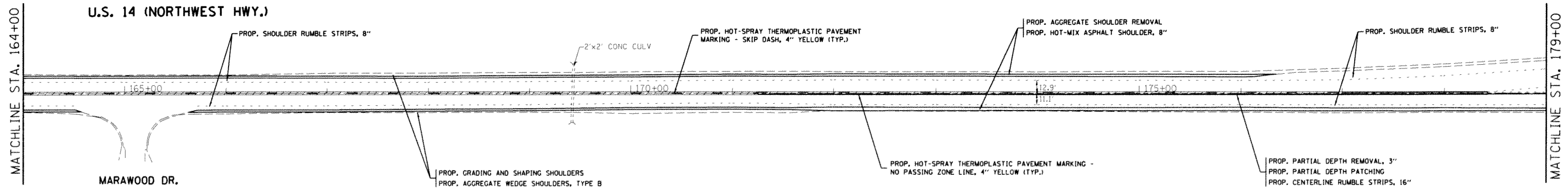
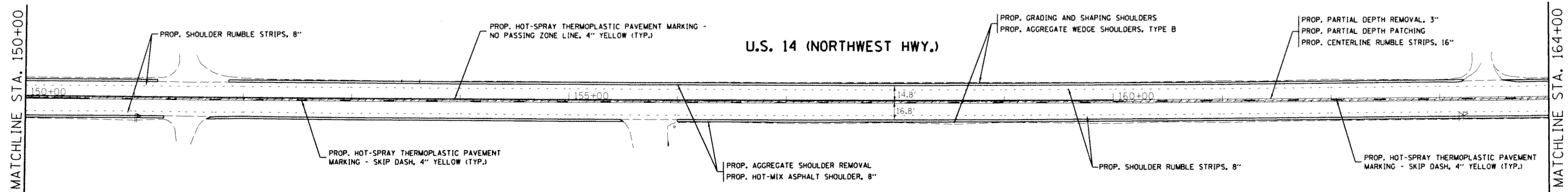
FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\p\wdot\stedpa\d0369663\0140	13-shr-cover.dgn	DRAWN -	REVISED -					305	2013-046 SR	MCHENRY	44	16
Default	PLOT SCALE = 100.0000 1/ in.	CHECKED -	REVISED -		FAP 305/US 14 (NORTHWEST HWY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)			CONTRACT NO. 60W91				
	PLOT DATE = 3/27/2014	DATE -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT



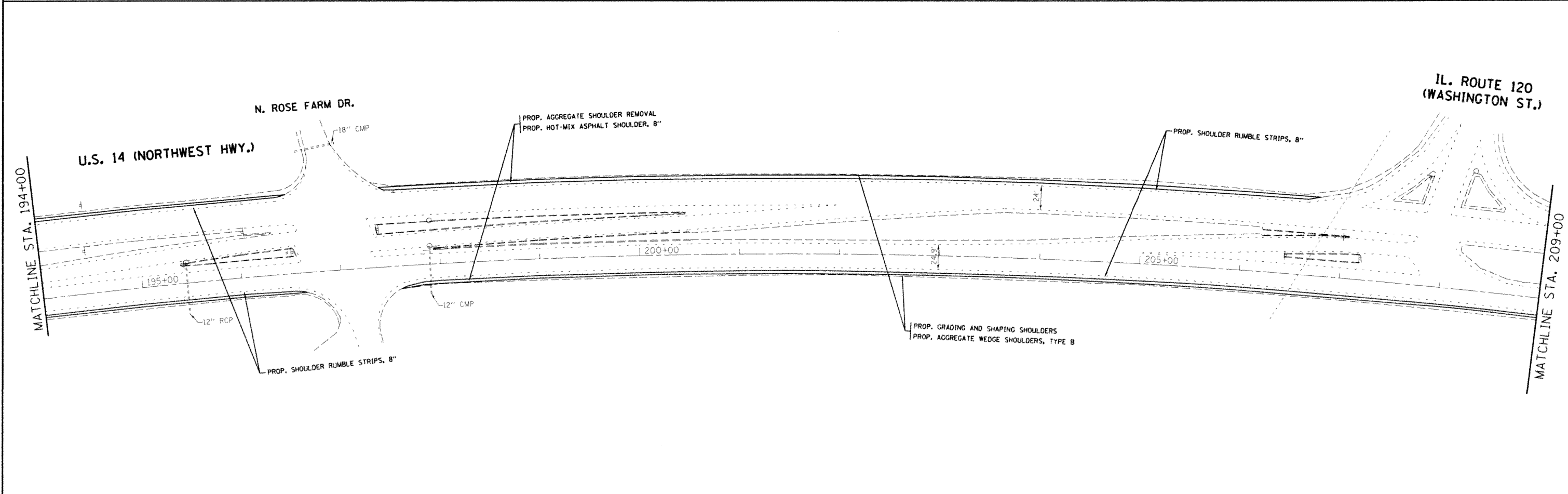
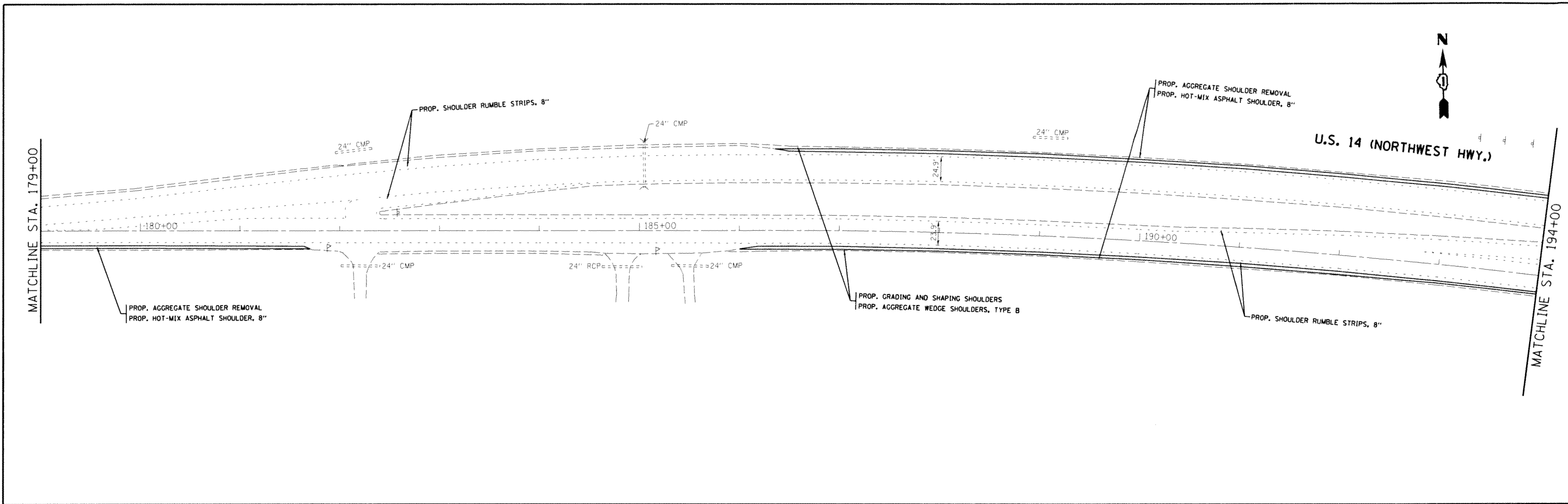
FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\p\idot\steadpa\0359663\0148	13-shr-cover.dgn	DRAWN -	REVISED -		FAP 305/US 14 (NORTHWEST HWY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)			305	2013-046 SR	MCHENRY	44	17
Default	PLOT SCALE = 100,0000 1/2 in.	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60W91	
	PLOT DATE = 3/27/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



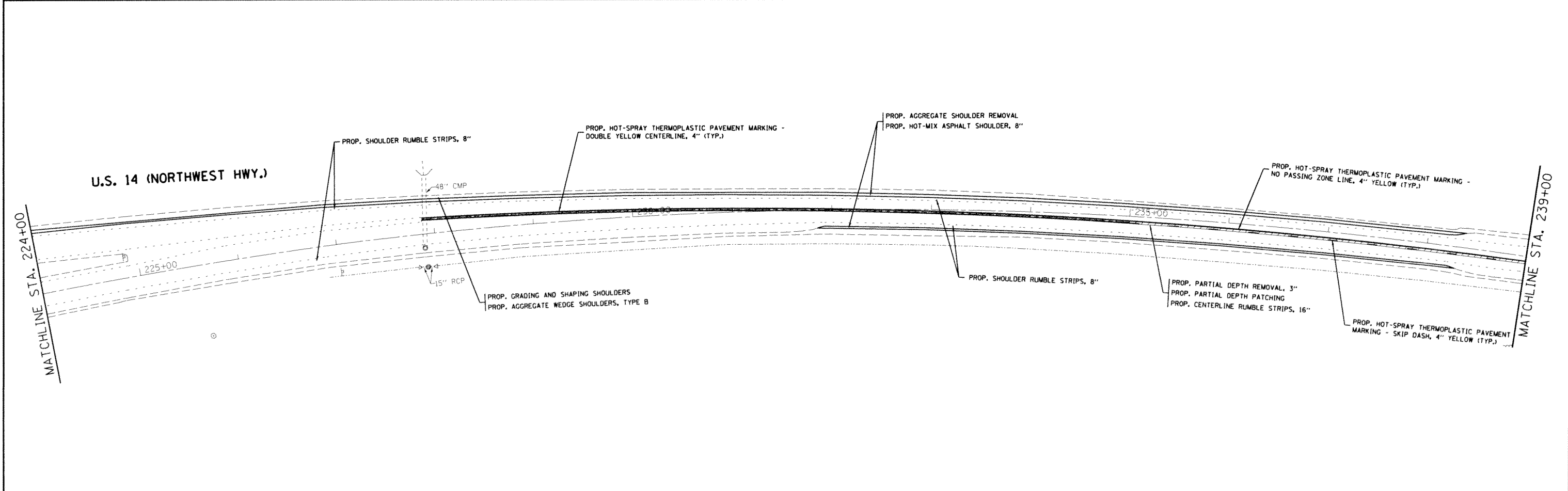
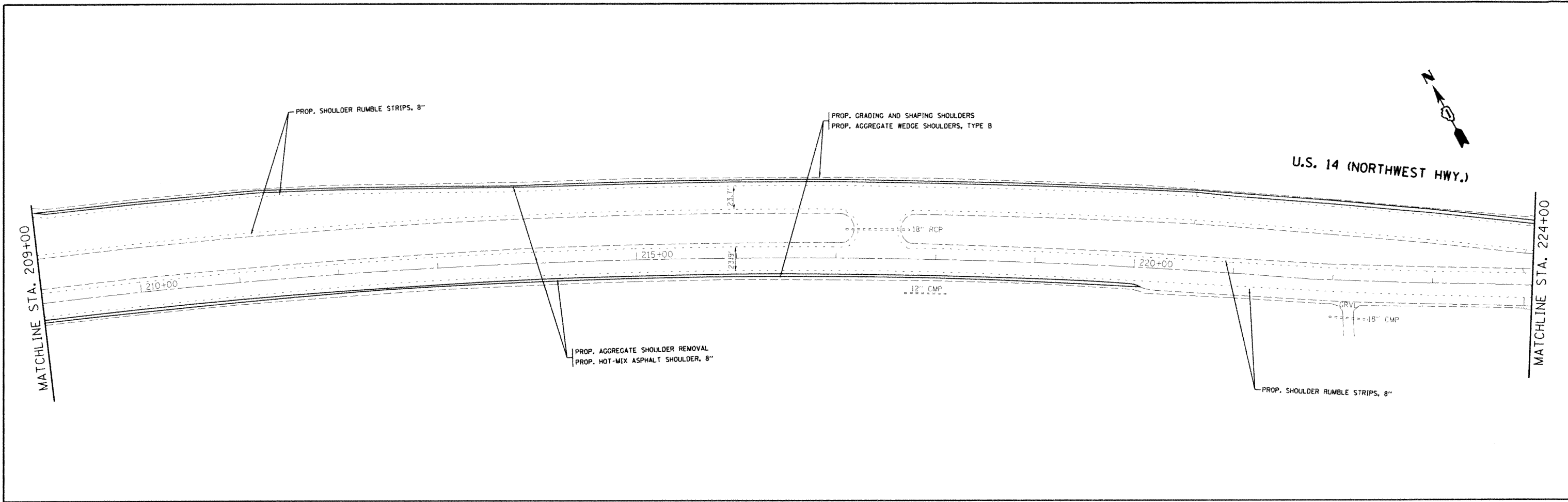
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Default	PLOT SCALE = 100.0000 1 / in.	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60W91		
	PLOT DATE = 3/27/2014	DATE -	REVISED -								ILLINOIS FED. AID PROJECT		



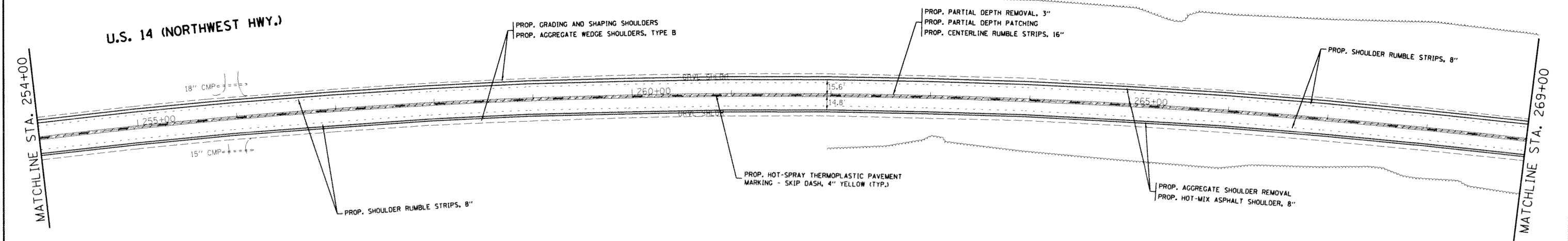
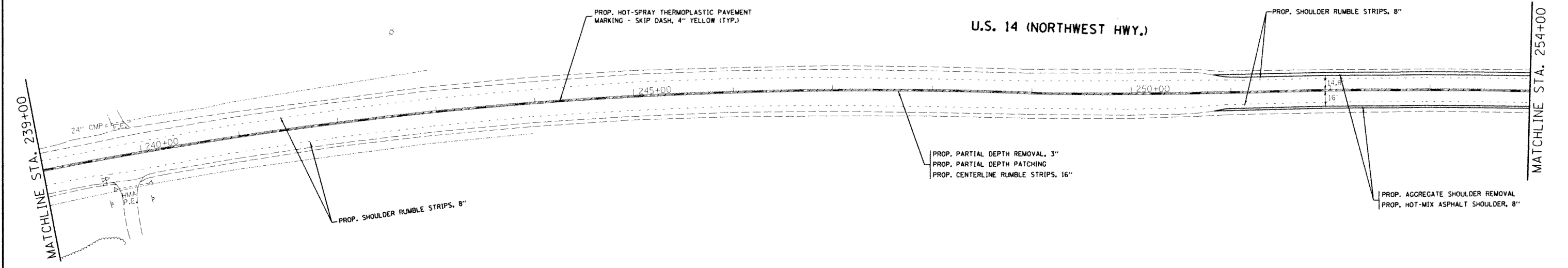
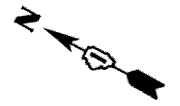
FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\stedpa\0359563\0148	13-shr-cover.dgn	DRAWN -	REVISED -		FAP 305/US 14 (NORTHWEST HWY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)	305	2013-046 SR	McHENRY	44	19		
Default	PLOT SCALE = 100,0000 1/4 in.	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60W91	
	PLOT DATE = 3/27/2014	DATE -	REVISED -								ILLINOIS FED. AID PROJECT	



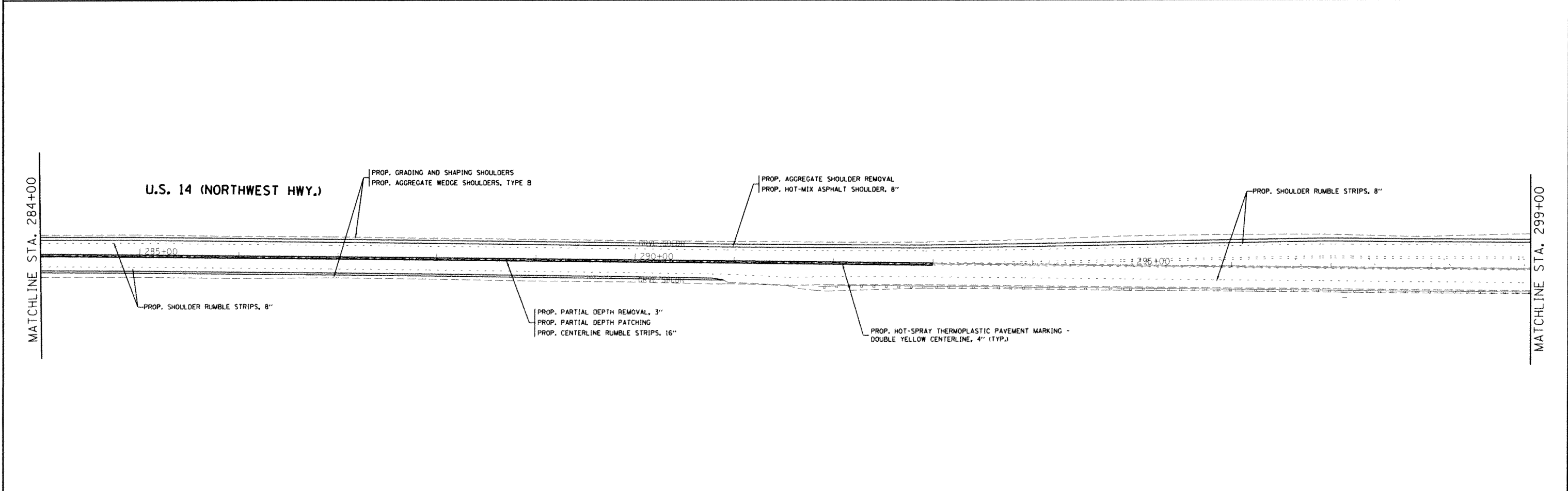
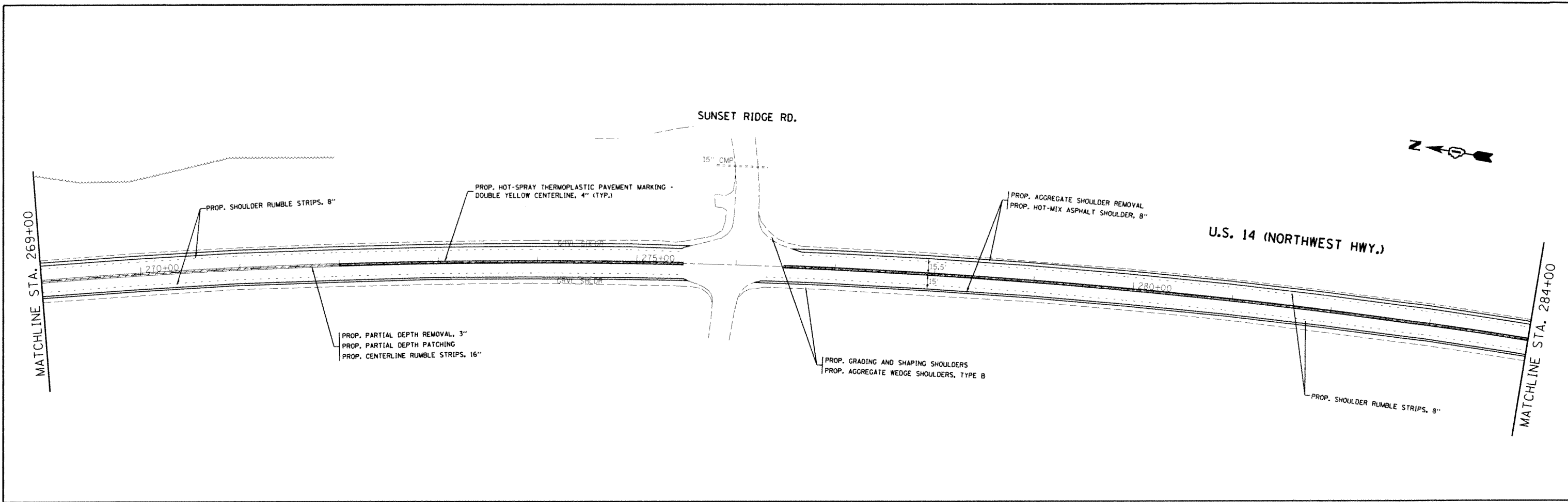
FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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	PLOT DATE = 3/27/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT									



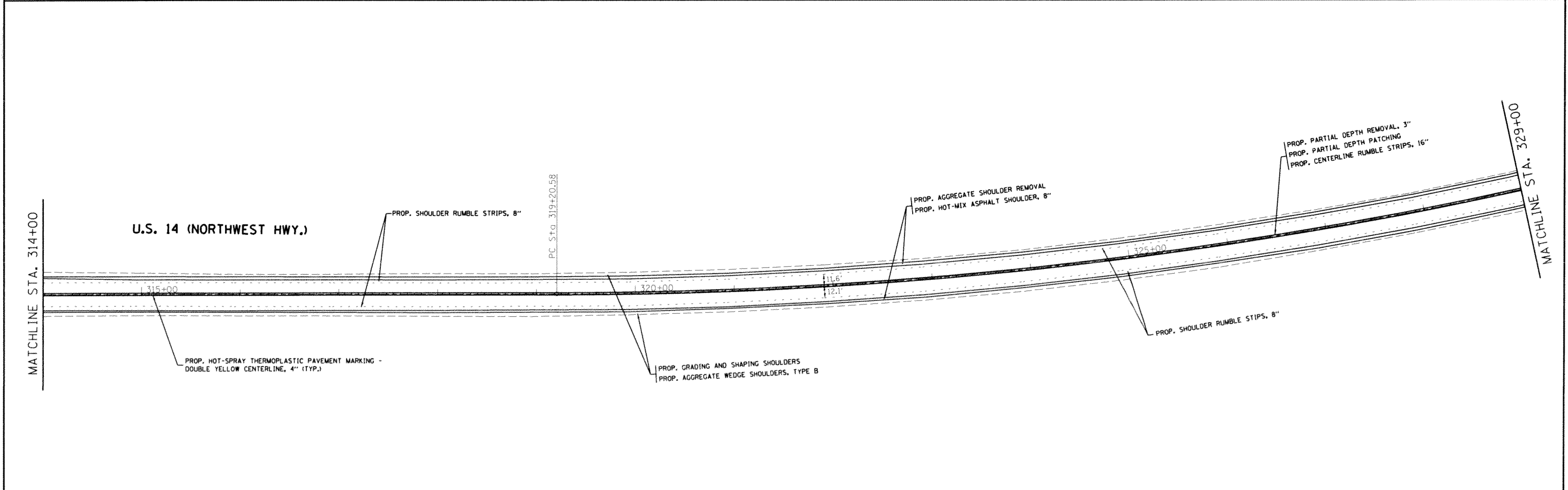
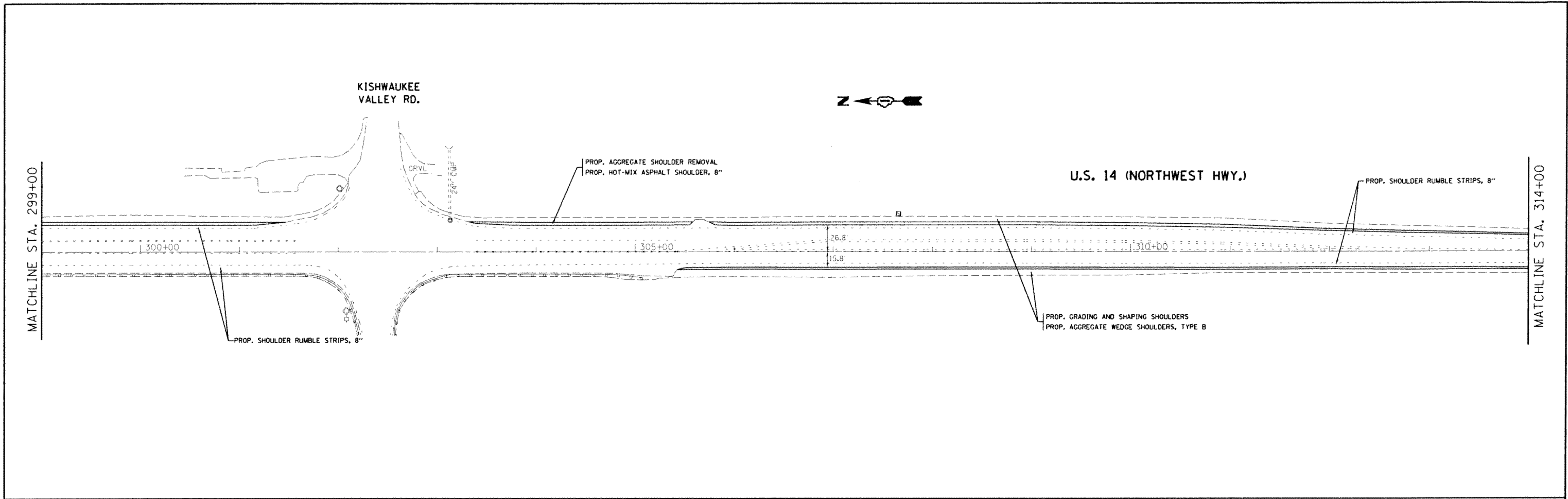
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c:\p\work\p\dot\stedpe\d0367663\0140	13-aht-cover.dgn	DRAWN -	REVISED -		FAP 305/US 14 (NORTHWEST HWY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)				305	2013-046 SR	MCHEMRY	44	21
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	PLOT DATE = 3/27/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



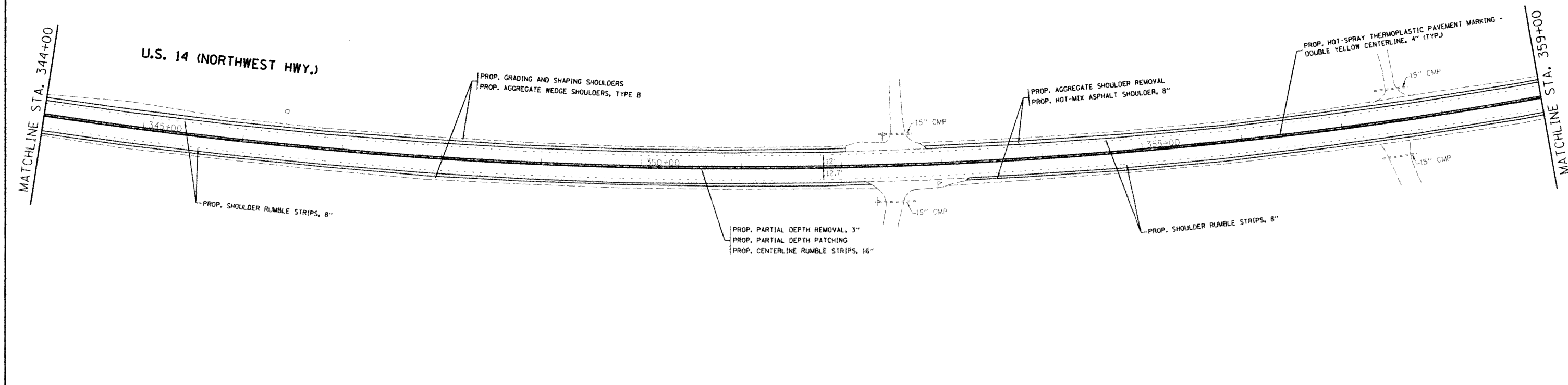
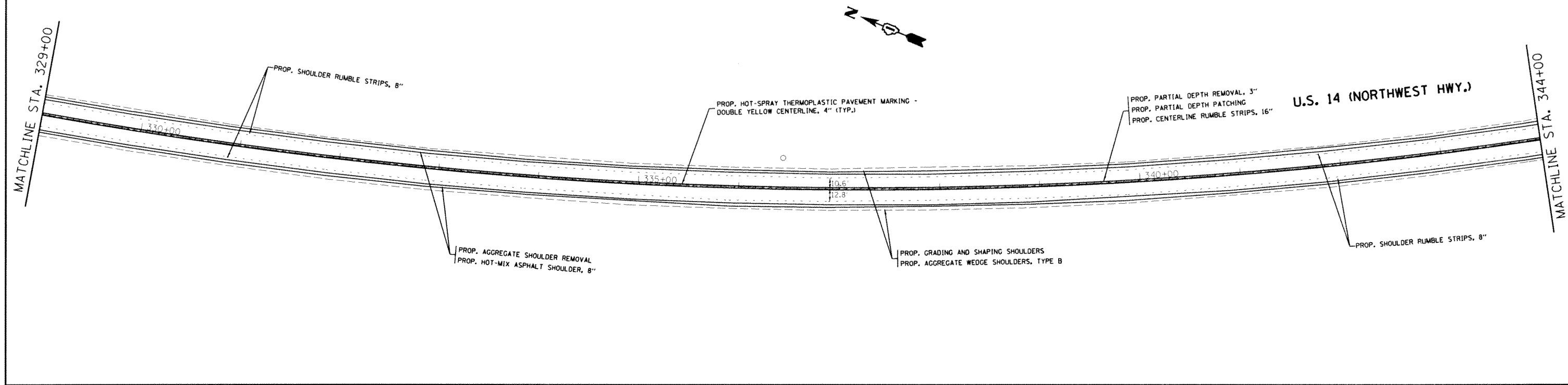
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	PLOT DATE = 3/27/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT									



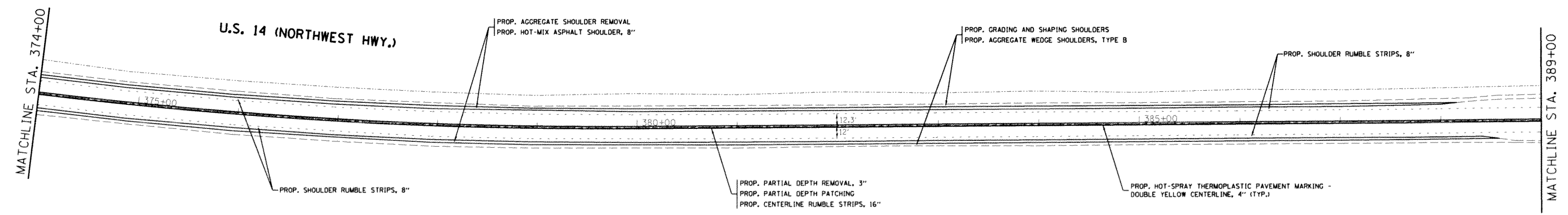
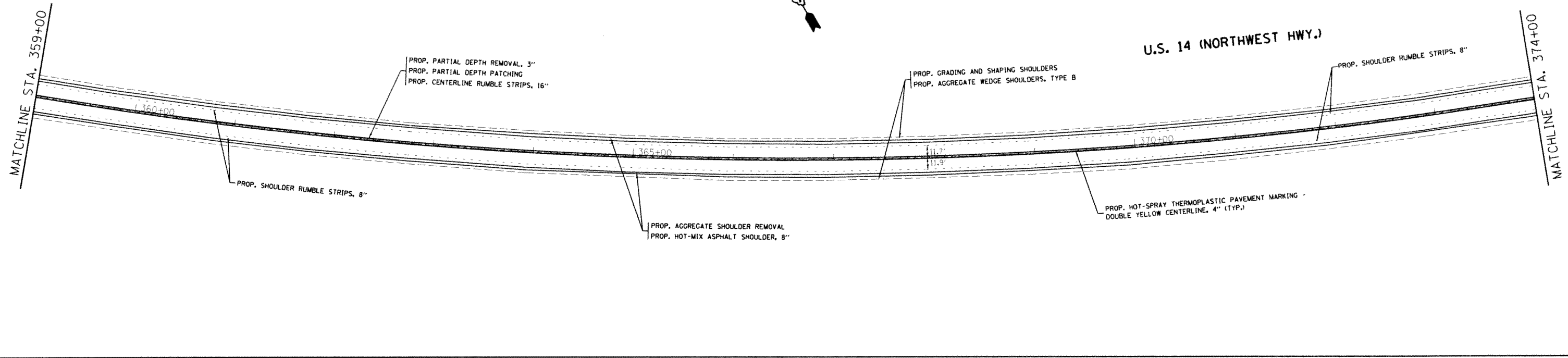
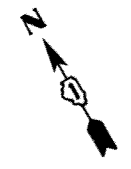
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	PLOT DATE = 3/27/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



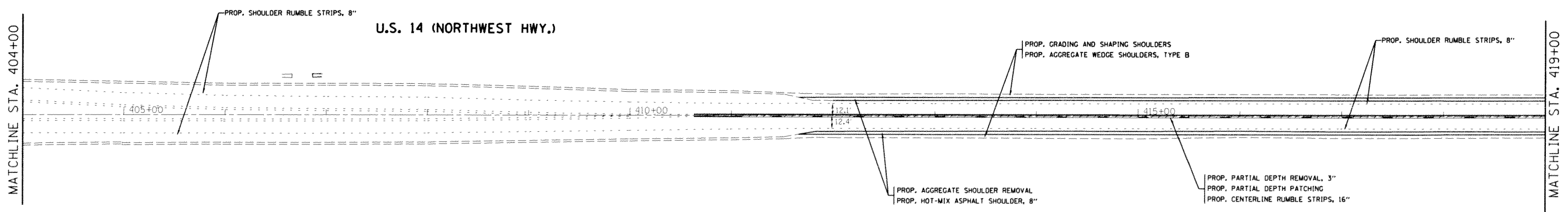
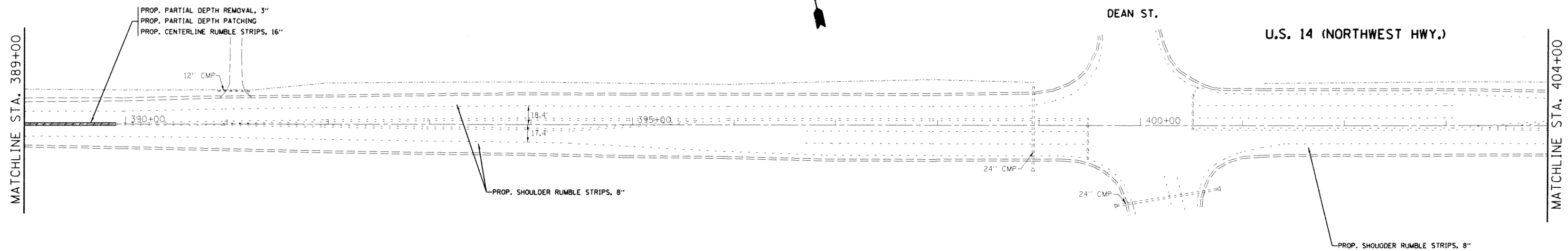
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	PLOT DATE = 3/27/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



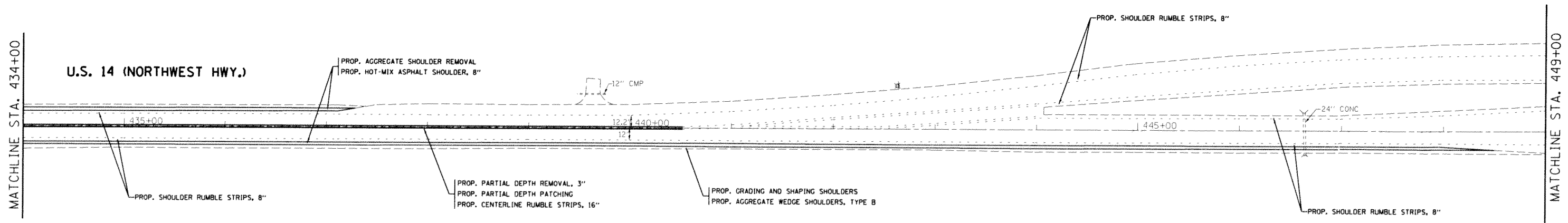
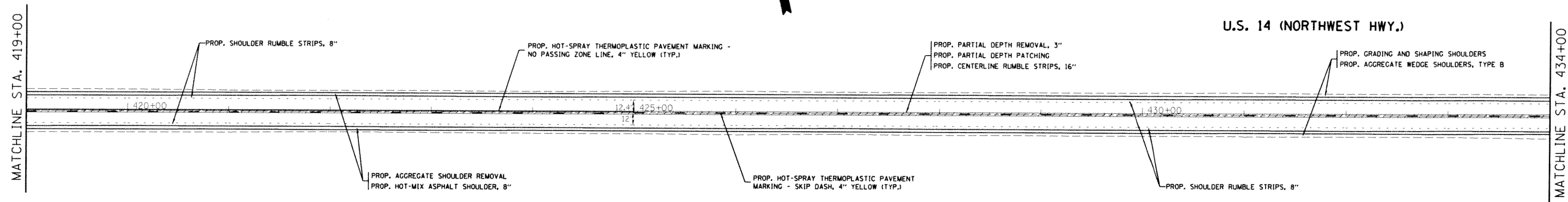
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	PLOT DATE = 3/27/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



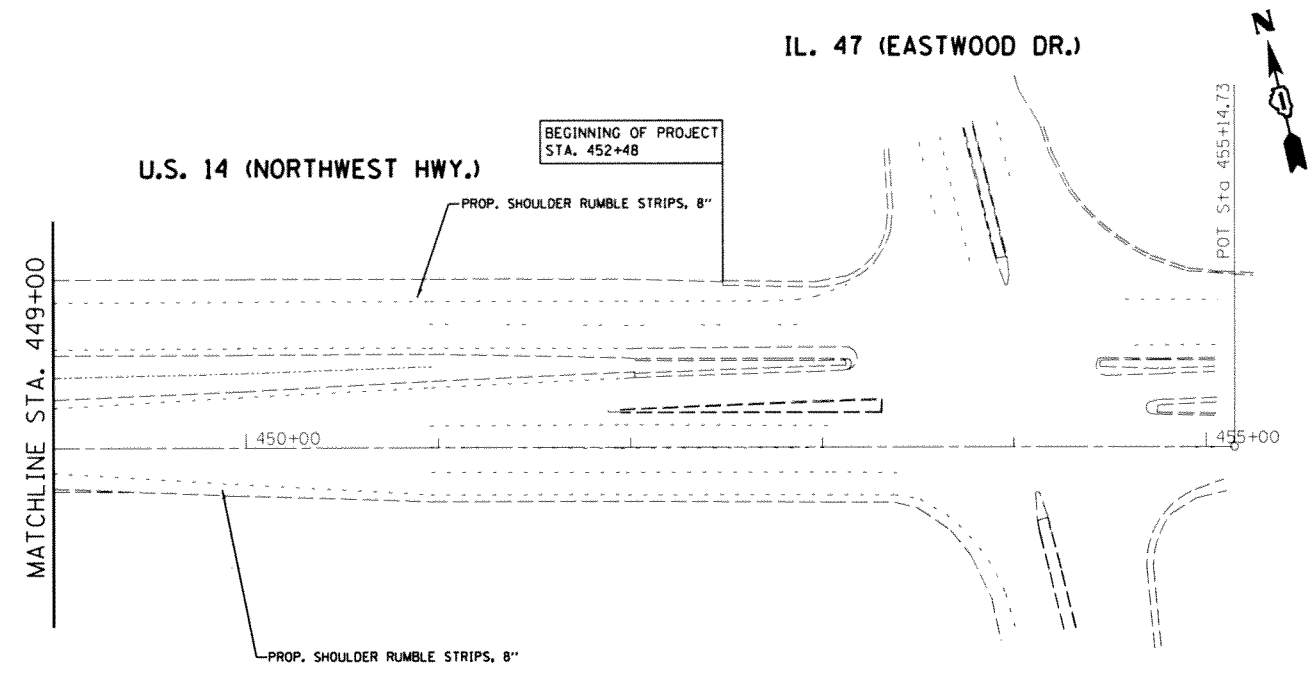
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	PLOT DATE = 3/27/2014	DATE -	REVISED -								ILLINOIS FED. AID PROJECT	



FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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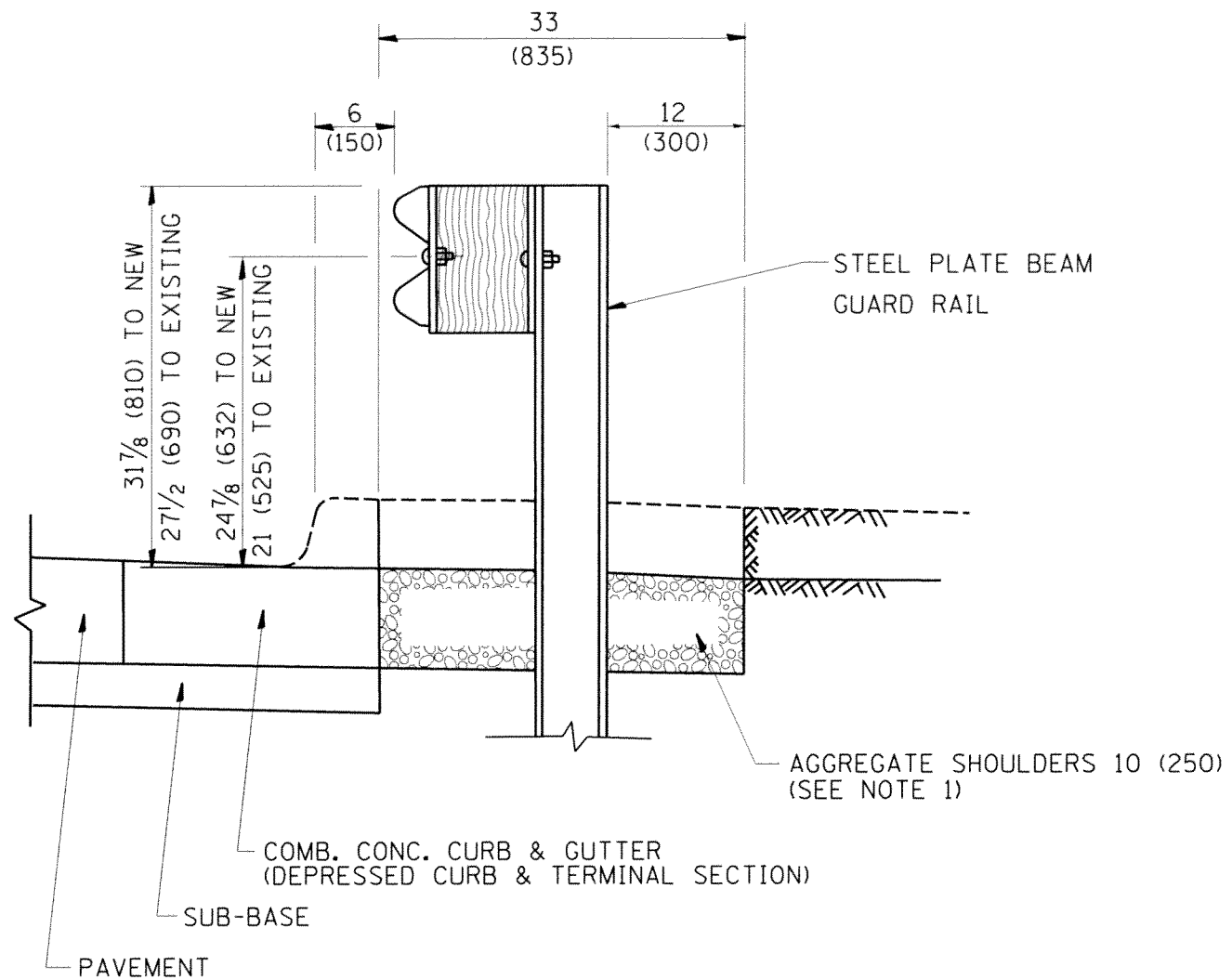


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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY AND PAVEMENT MARKING PLANS			
FAP 305/US 14 (NORTHWEST HWY.)--BUNKER HILL RD. TO IL 47 (EASTWOOD DR.)			
SCALE: 1"=50'	SHEET	OF	SHEETS
	STA.	TO	STA.

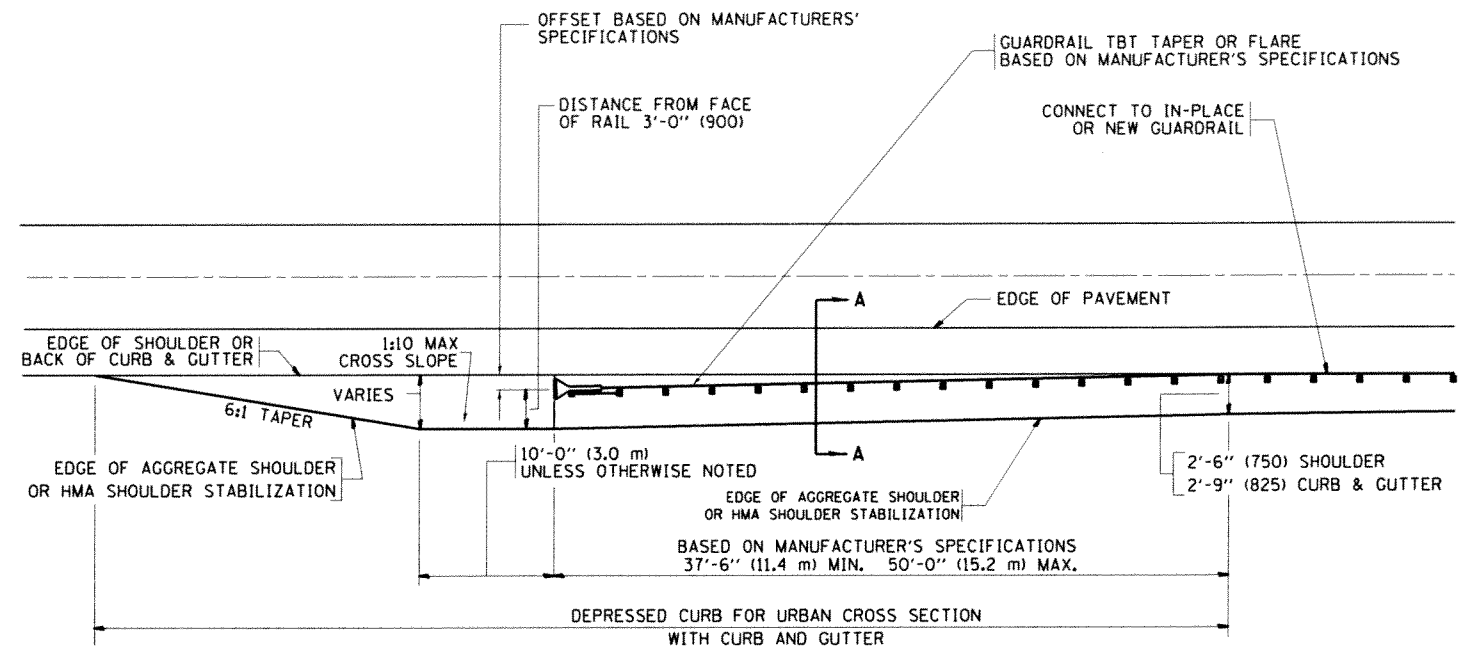
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2013-046 SR	MCHENRY	44	29
ILLINOIS FED. AID PROJECT				
CONTRACT NO. 60W91				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

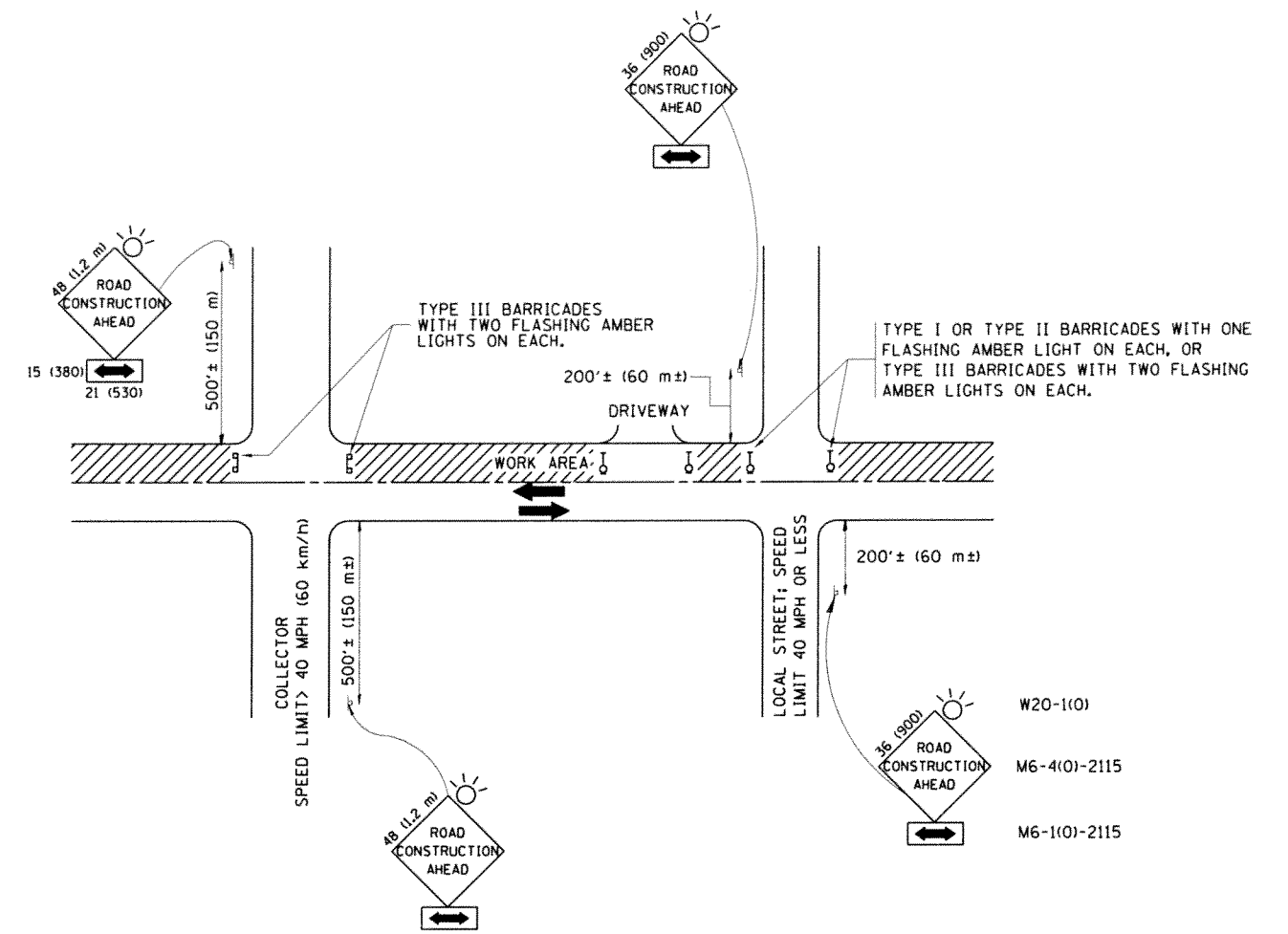
TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = steedpe	DESIGNED - M. DE YONG	REVISED - E. GOMEZ 08-28-00
0:\px\work\p\idat\stedpe\08329923\01st	td.dgn	DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000 1 / in.	CHECKED -	REVISED - R. BORO 12-08-2008
	PLOT DATE = 3/27/2014	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL.			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2013-0465R	MC HENRY	44	30
BD600-10 (BD 34)			CONTRACT NO. 60W91	
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.

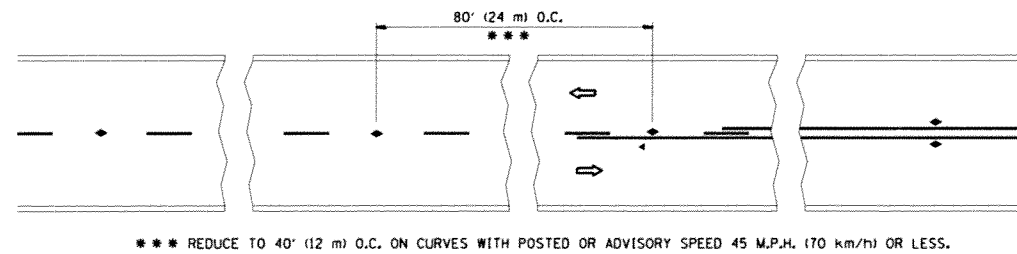
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	PLOT SCALE = 100.0000 1/ in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 3/27/2014	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

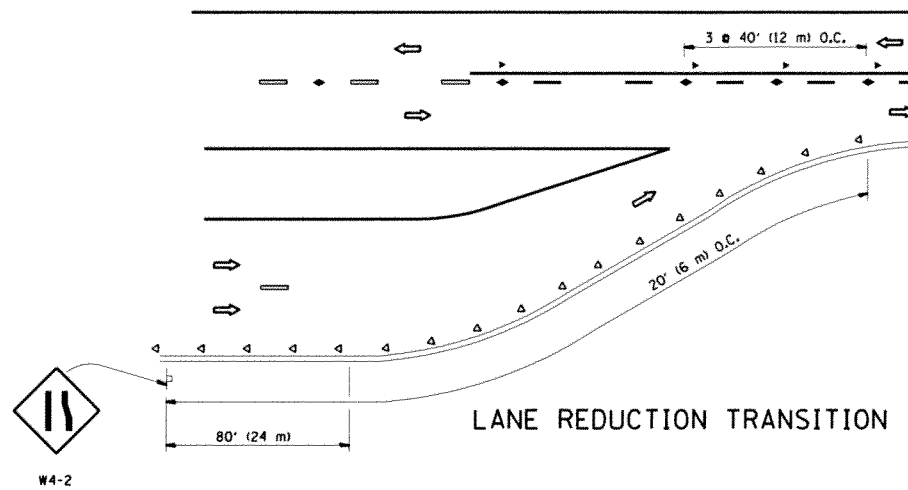
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

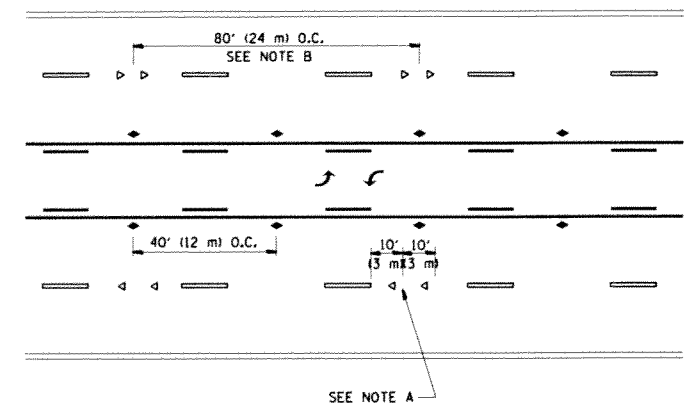
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 60W91	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



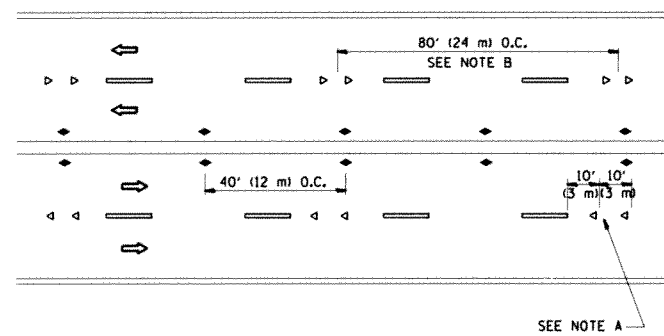
TWO-LANE/TWO-WAY



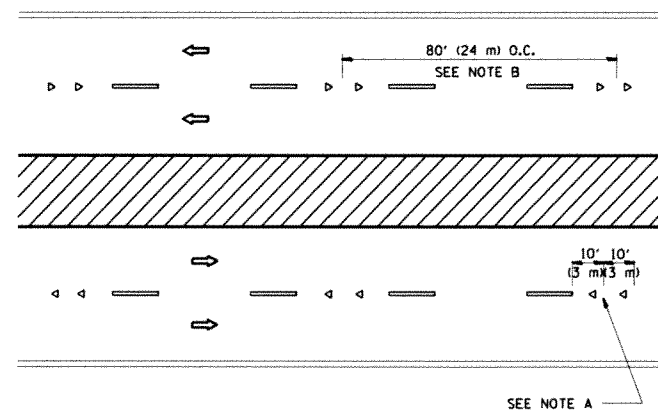
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

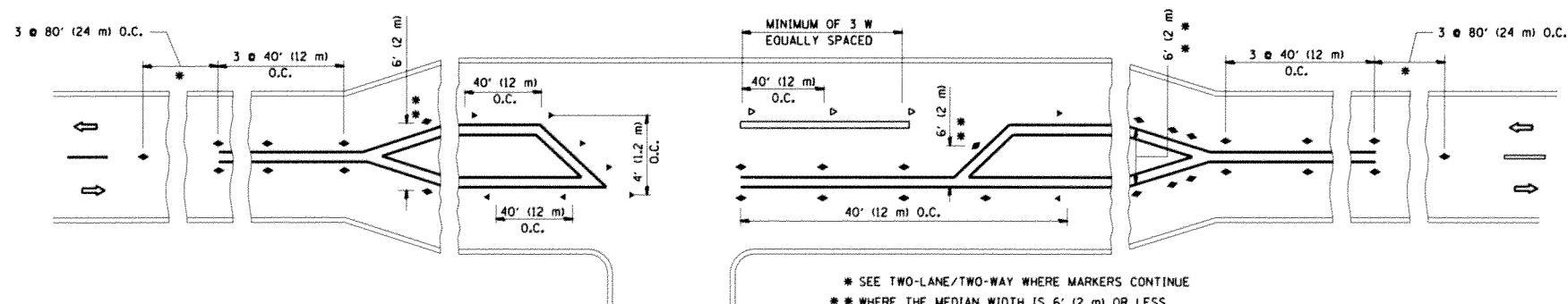
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

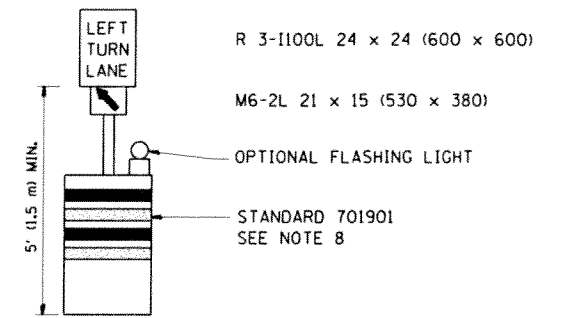
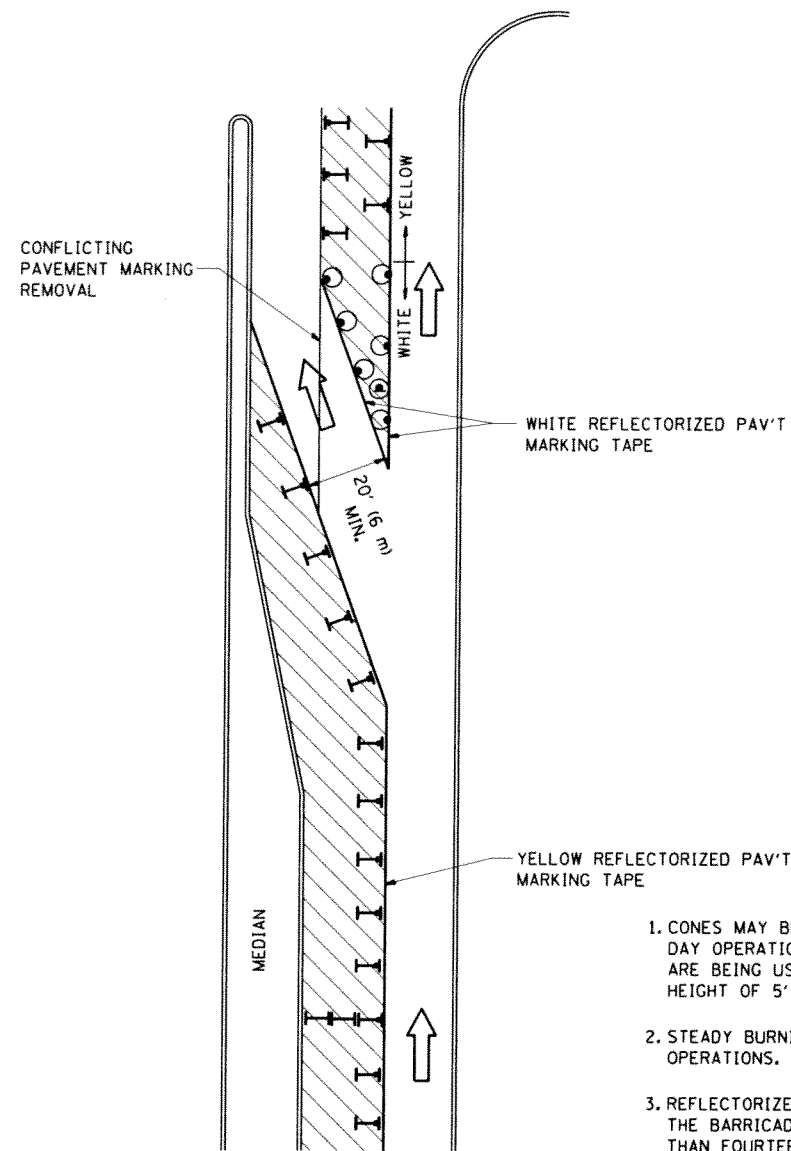


LEFT TURN

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

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

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\stedpa\0329923\Dist	td.dgn	DRAWN -	REVISED - T. RAMMACHER 03-12-99		305	2013-046SR	MC HENRY	44	32			
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	PLOT DATE = 3/27/2014	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

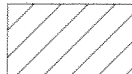
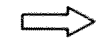






GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. 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" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHR 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

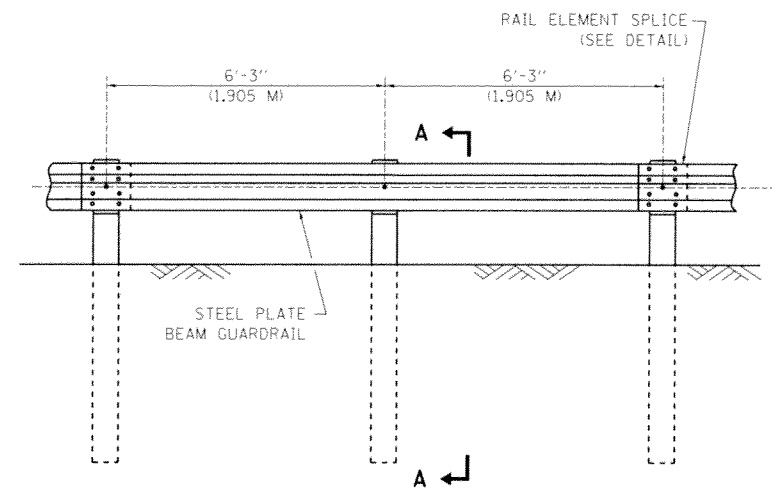
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = steedpa	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
ct:\pe_work\pwrdat\stedpa\d0329923\Dist\d.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT SCALE = 100.0000' / 1" =	REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT DATE = 3/27/2014	REVISED - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

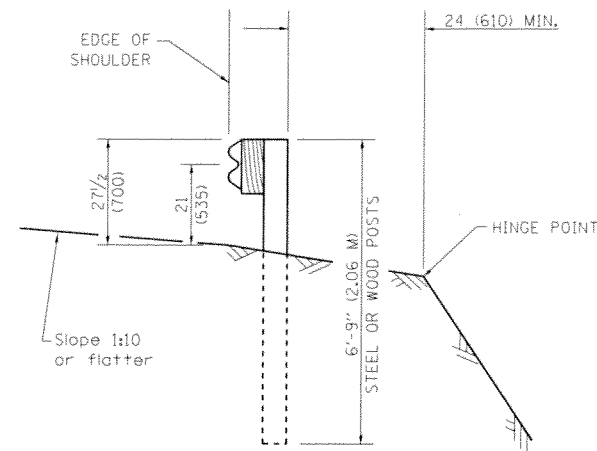
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2013-046 SR	MC HENRY	44	34
TC-14			CONTRACT NO. 60W91	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



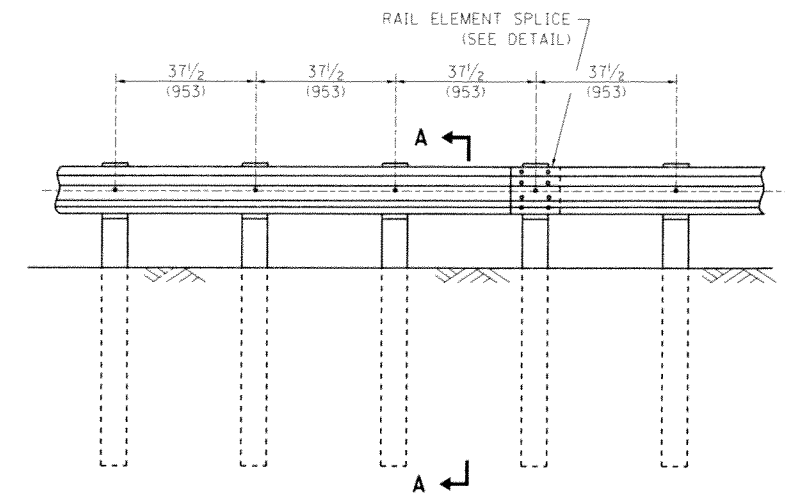
ELEVATION

TYPE A

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



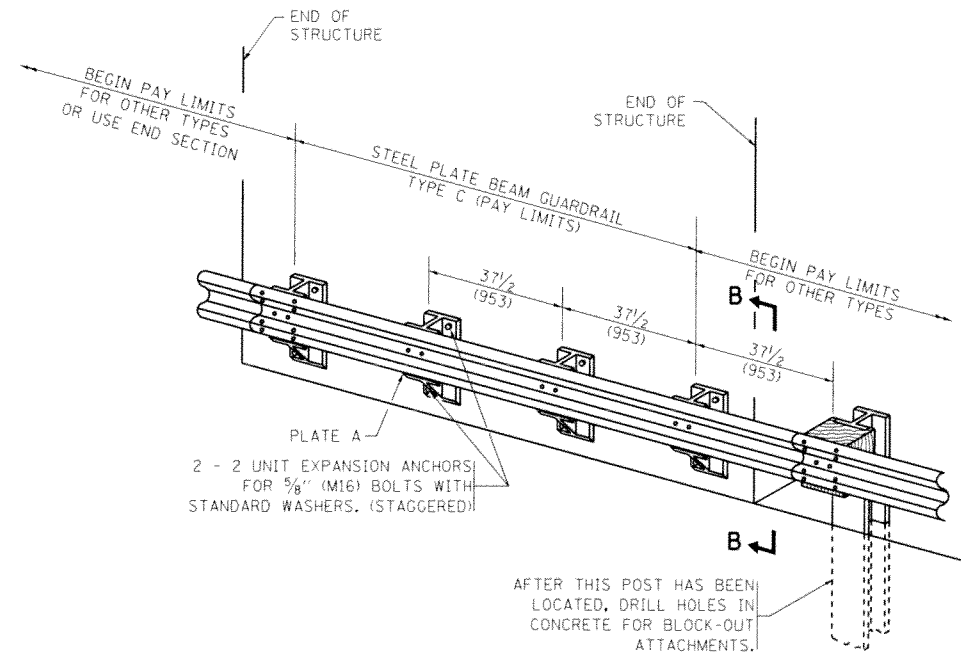
SECTION A-A



ELEVATION

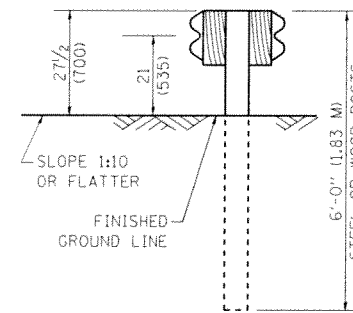
TYPE A

37 1/2 (953) CLOSED POST SPACING

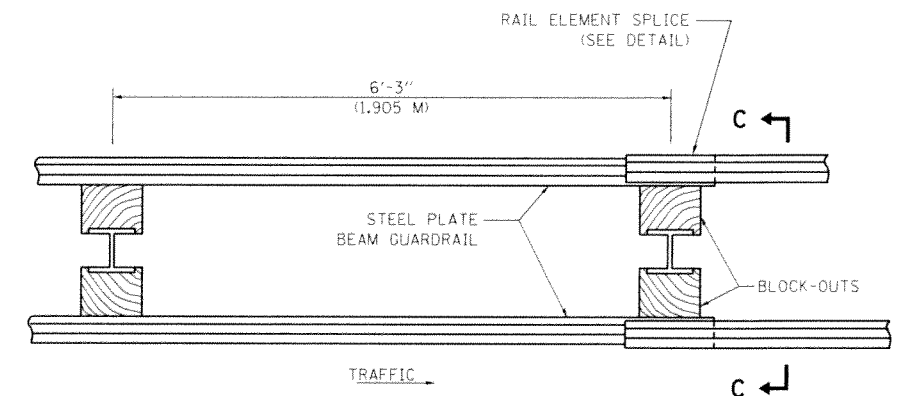


TYPE C

37 1/2 (953) BLOCK-OUT SPACING



SECTION C-C

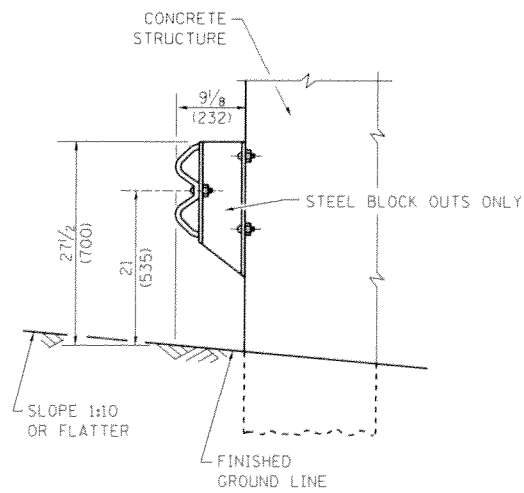


TRAFFIC

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 =
c:\pwork\pvidot\steadpa\0329923\Dist

USER NAME = steadpa
td.dgn
PLOT SCALE = 100.0000 1/ in.
PLOT DATE = 3/27/2014

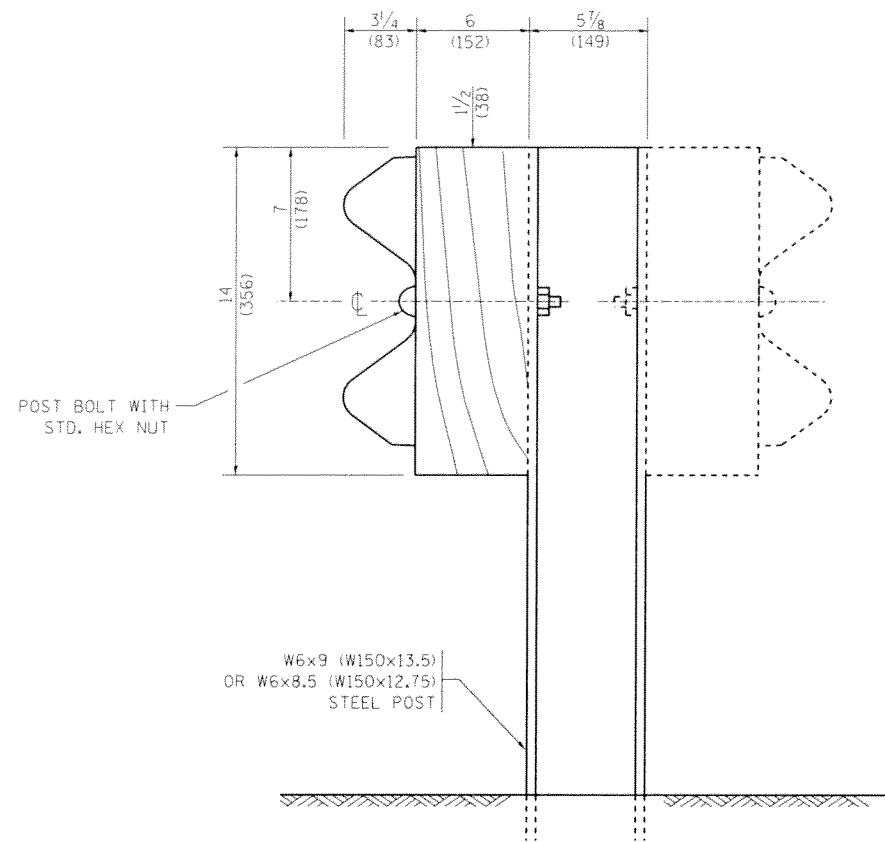
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED - 10-31-06
REVISED -
REVISED -
REVISED -

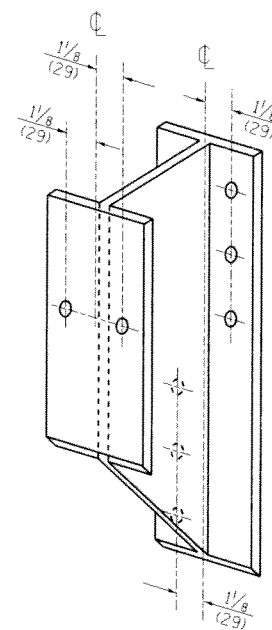
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

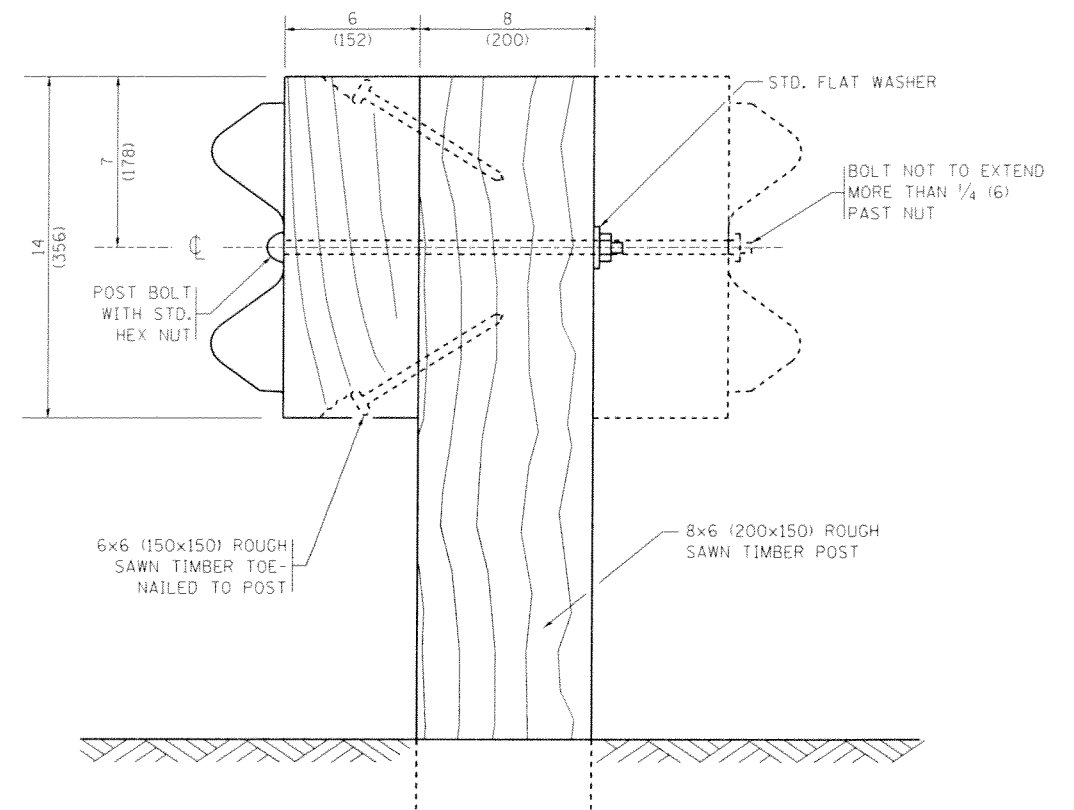
F.A.P. RTE. 305	SECTION 2013-0465R	COUNTY MC HENRY	TOTAL SHEETS 44	SHEET NO. 35
BM-21			CONTRACT NO. 60W91	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



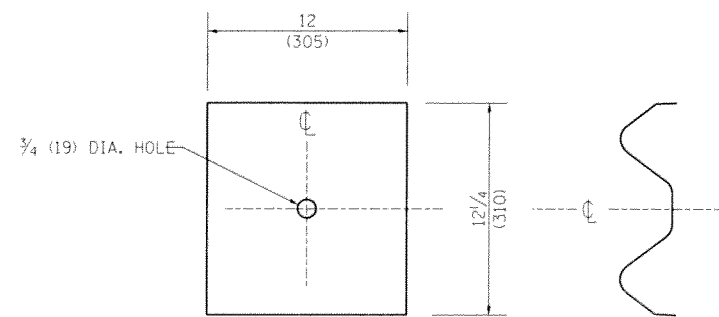
STEEL POST CONSTRUCTION



STEEL BLOCK-OUT DETAIL



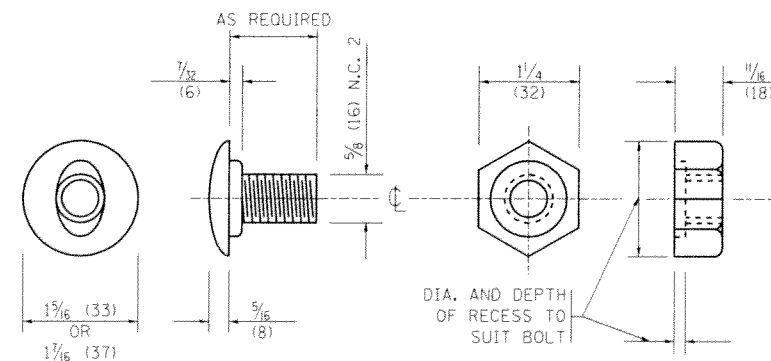
WOOD POST CONSTRUCTION



NOTE:

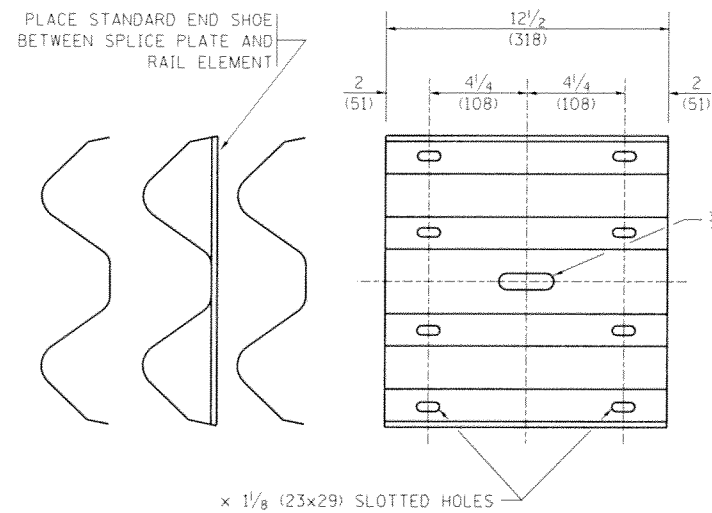
PLATE A SHALL BE PLACED BETWEEN RAIL ELEMENT AND BLOCK-OUT AT NON-SPLICE MOUNTING POINTS ONLY WHEN STEEL BLOCK-OUTS ARE USED.

PLATE A

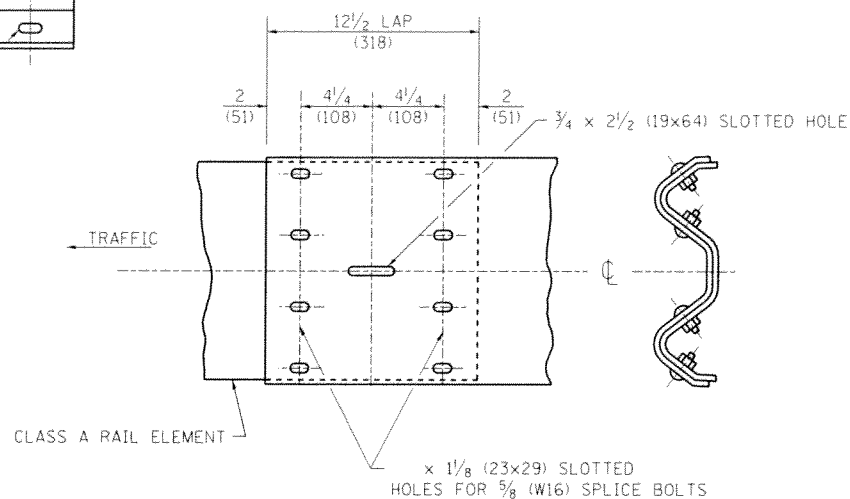


POST OR SPLICE BOLT & NUT

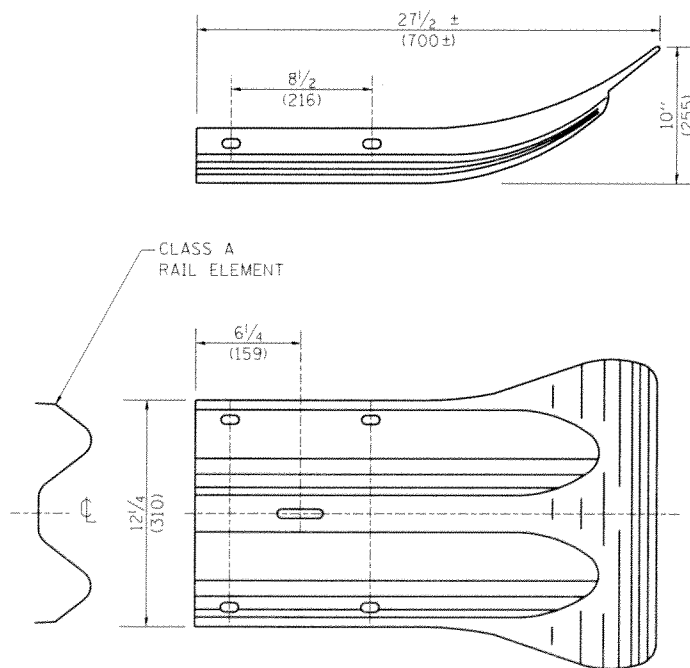
FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED - 10-31-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cd:\pw_work\pavidot\steadpa\08329923\Dist	td.dgn	DRAWN -	REVISED -			305	2013-046SR	MC HENRY	44	36
	PLOT SCALE = 100,0000 1/ in.	CHECKED -	REVISED -			BM-21		CONTRACT NO. 60W91		
	PLOT DATE = 3/27/2014	DATE -	REVISED -			SCALE: NONE	SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



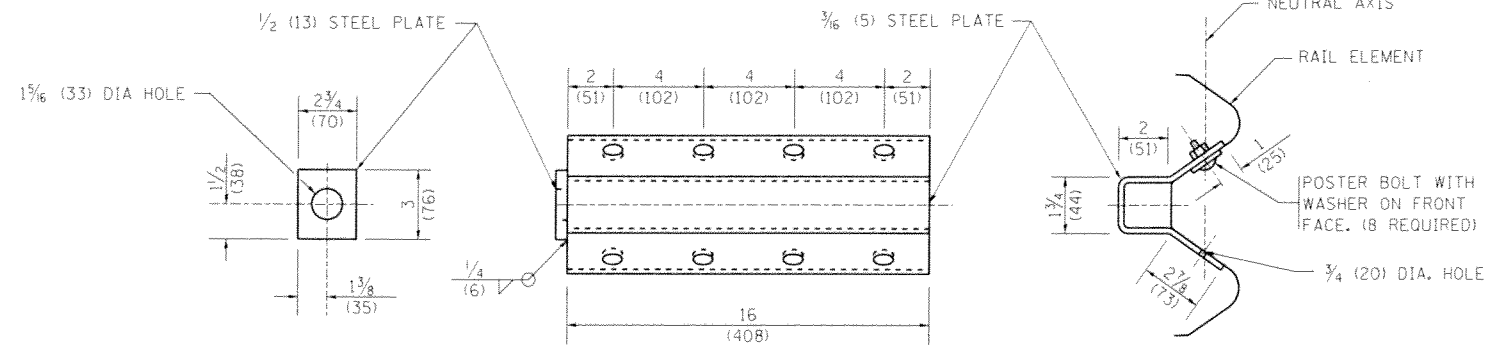
SPLICE PLATE



RAIL ELEMENT SPLICE



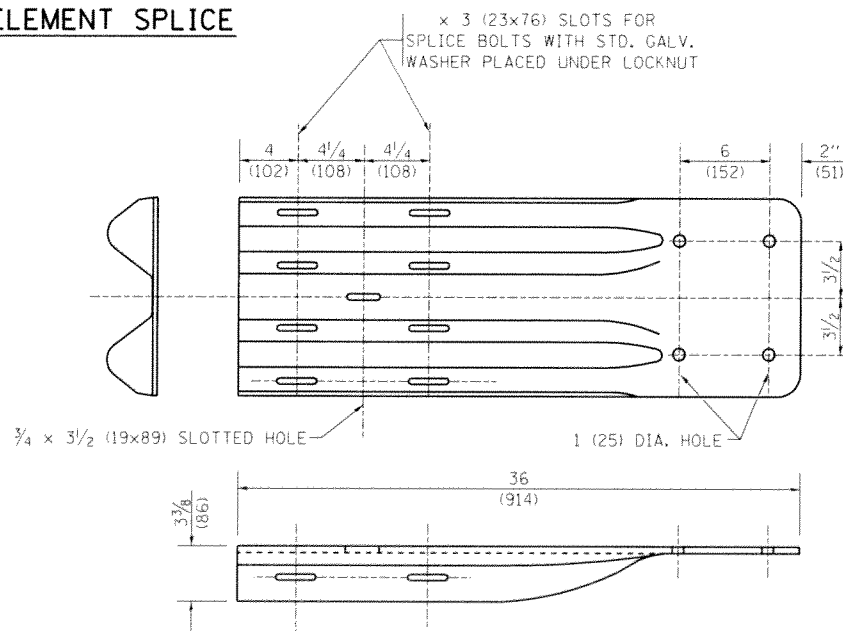
END SECTION



NOTE:

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

ANCHORE PLATE T DETAILS



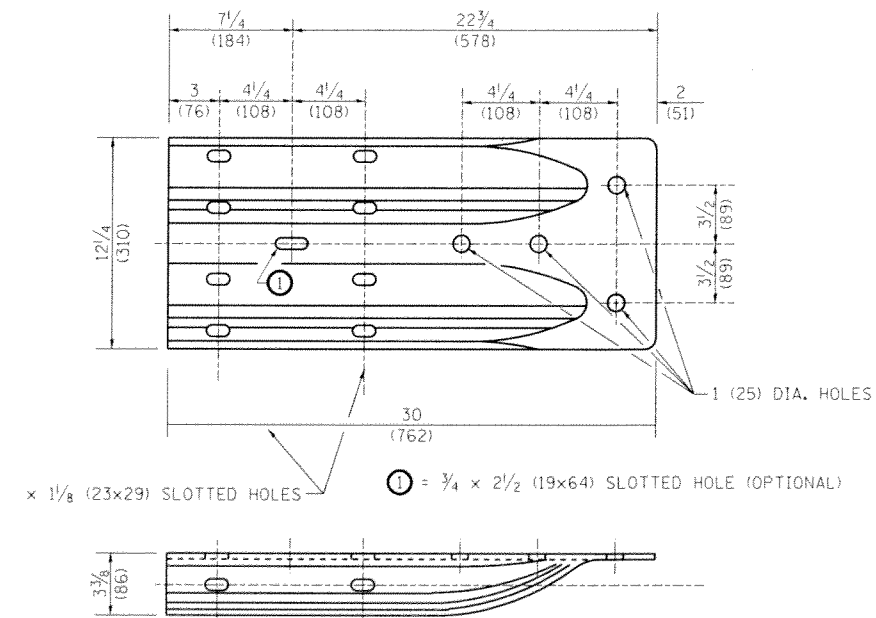
END SHOE

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.

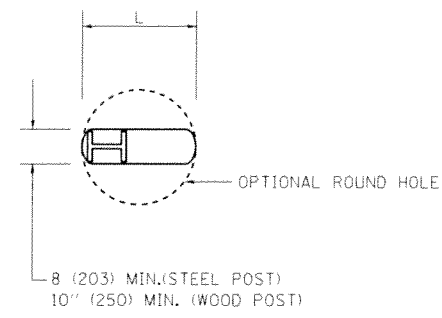
THE STANDARD END SHOE SHALL BE ATTACHED TO THE CONCRETE WITH PRE-DRILLED OR SELF-DRILLING ANCHOR BOLTS. THE ANCHOR CONE SHALL BE SET FLUSH WITH THE SURFACE OF THE CONCRETE.

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

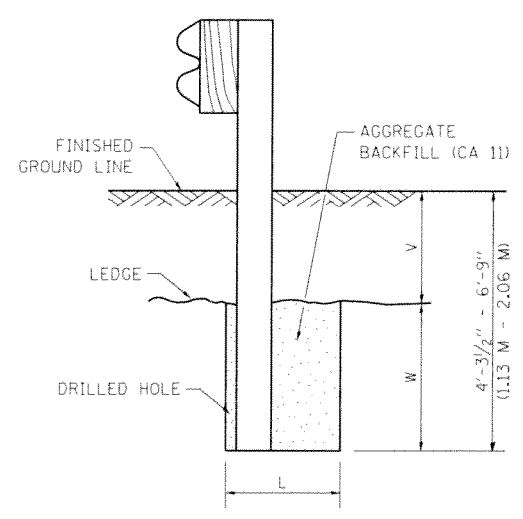


ALTERNATE END SHOE

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED - 10-31-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL			F.A.P. RTE. 305	SECTION 2013-046SR	COUNTY MC HENRY	TOTAL SHEETS 44	SHEET NO. 37
ct:\pw\work\pwsdot\stedpa\0329923\01std.dgn		DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.	BM-21		CONTRACT NO. 60W91	
		CHECKED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



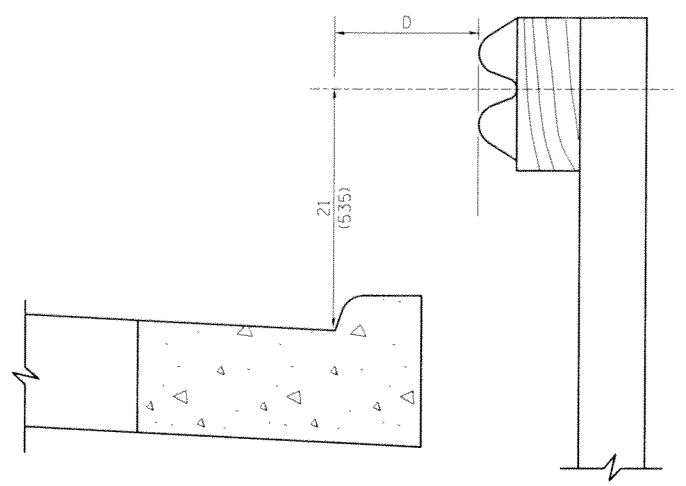
PLAN



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

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

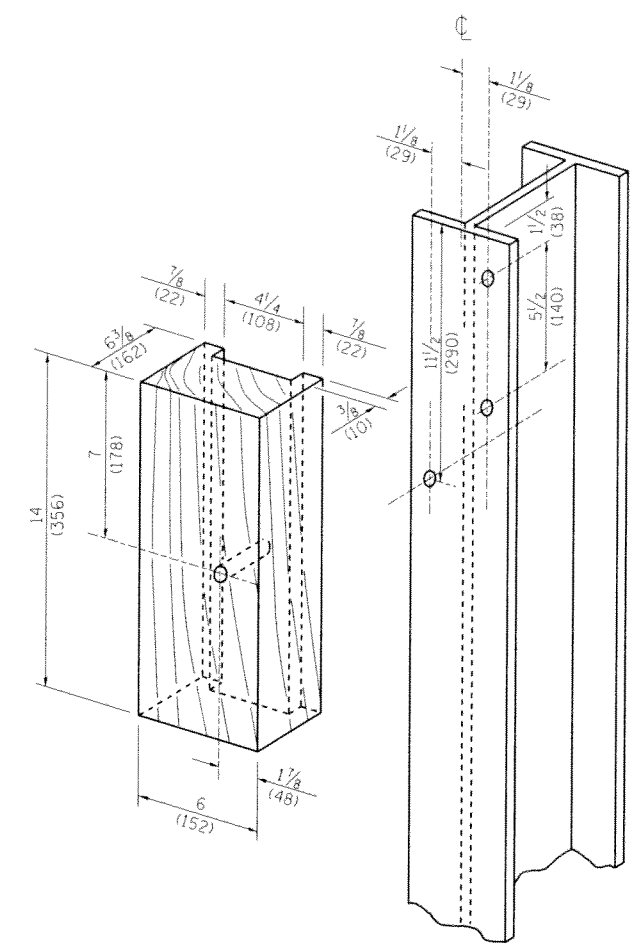


NOTE:
IF IT IS NECESSARY FOR D TO BE MORE THAN 12 (300) AND LESS THAN 10'-0" (3.0 M) TYPE M-2 (M-5) CURB AND GUTTER (STD. 606001) SHALL BE USED IN FRONT OF AND IN ADVANCE OF THE GUARDRAIL.

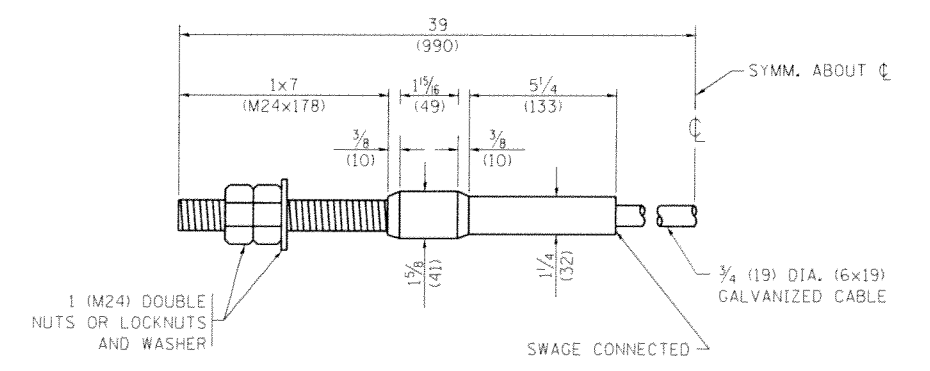
GUARDRAIL PLACED BEHIND CURB

(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)



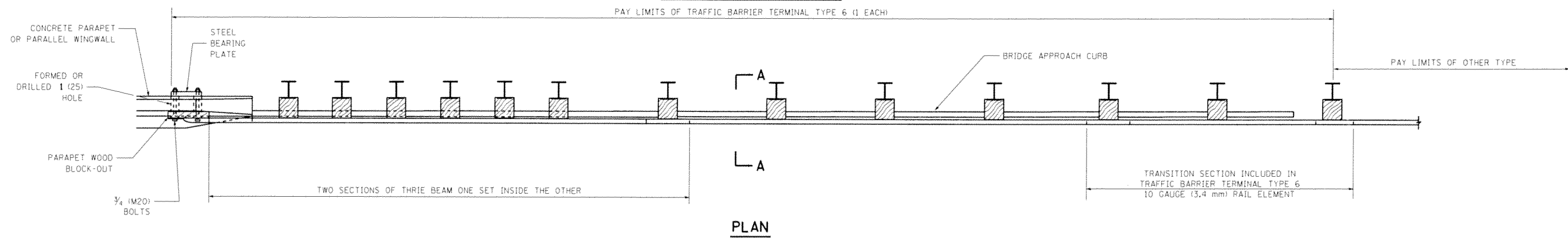
WOOD BLOCK-OUT AND STEEL POST DETAILS



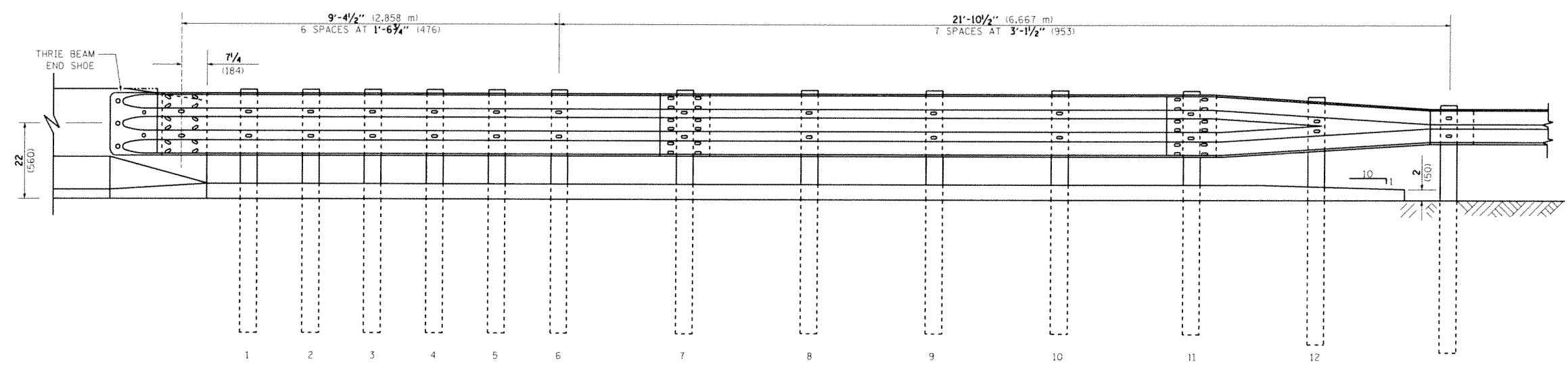
CABLE ASSEMBLY

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

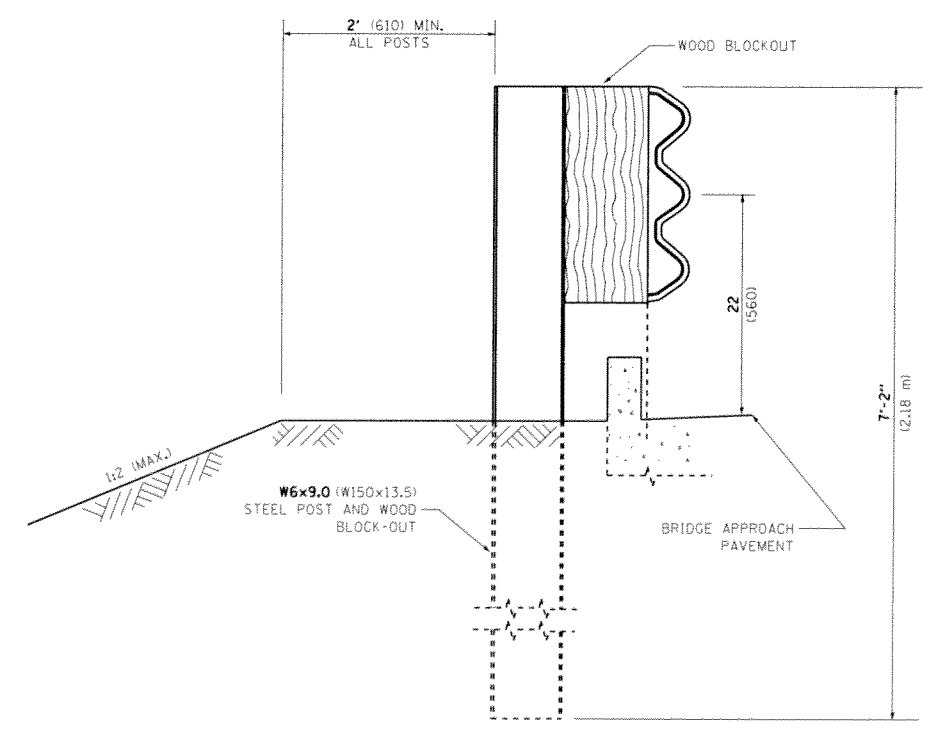
PARAPET OR WINGWALL



PLAN



ELEVATION



SECTION A-A

GENERAL NOTES

- TO BE USED WHEN CONNECTING TO EXISTING GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
- SEE STANDARD 630001 FOR DETAILS OF GUARDRAIL NOT SHOWN.
- THRIE BEAM RAIL SHALL BE BOLTED TO BLOCK-OUT AT ALL POSTS.
- SEE STANDARD 420401 FOR DETAILS OF BRIDGE APPROACH PAVEMENT.
- 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.

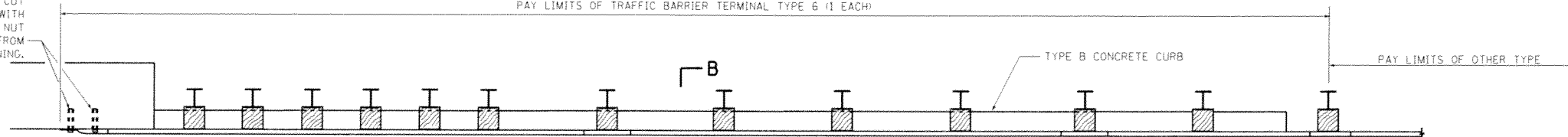
FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED - STATE STANDARD:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPE 6 TERMINAL FOR USE WITH 21" HIGH SPBGR		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ct:\pw\work\pwsdot\steedpa\d0329923\Dist\dtd.dgn		DRAWN -	631031-05 - 02/19/2008		SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.	305	2013-0465R	MC HENRY	44	39
		CHECKED -	REVISED -						BM 22		CONTRACT NO. 60W91		
		DATE -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

OTHER CONCRETE STRUCTURE

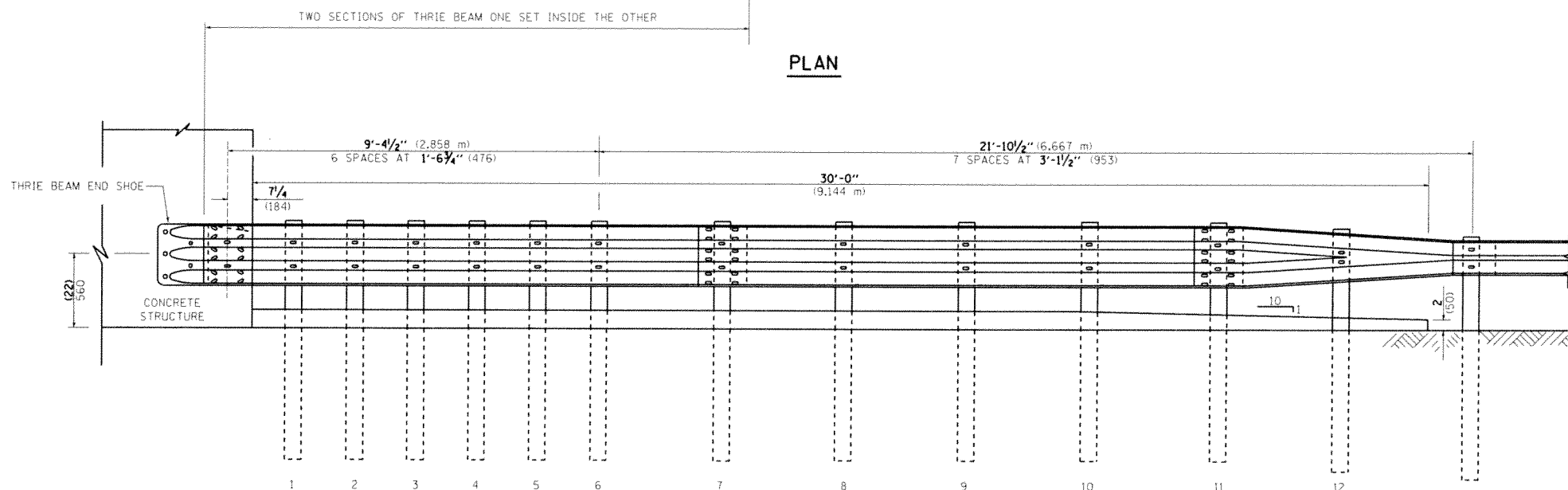
5 EPOXY GROUTED 3/4 (M20) ANCHOR BOLTS WITH STANDARD WASHERS. AFTER TIGHTENING, CUT THE ANCHOR BOLTS FLUSH WITH NUTS, AND DAMAGE THE NUT TO PREVENT IT FROM LOOSENING.

PAY LIMITS OF TRAFFIC BARRIER TERMINAL TYPE 6 (1 EACH)

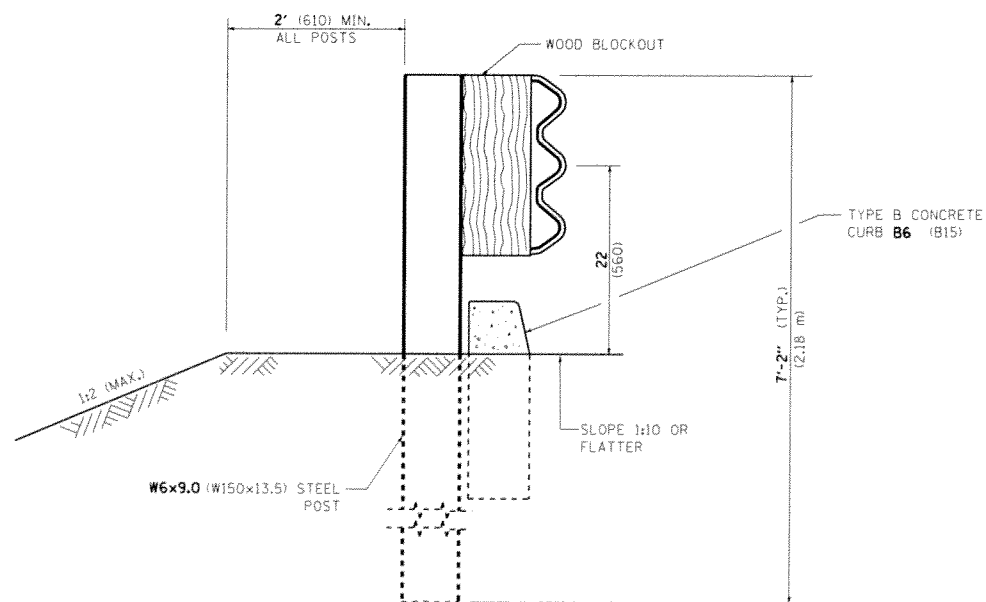
PAY LIMITS OF OTHER TYPE



PLAN



ELEVATION



SECTION B-B

FILE NAME =
c:\p\work\p\dot\stedpa\d0329923\Dist\d.dgn

USER NAME = stedpa
PLOT SCALE = 100,0000 1' = 100'
PLOT DATE = 3/27/2014

DESIGNED -
DRAWN -
CHECKED -
DATE -

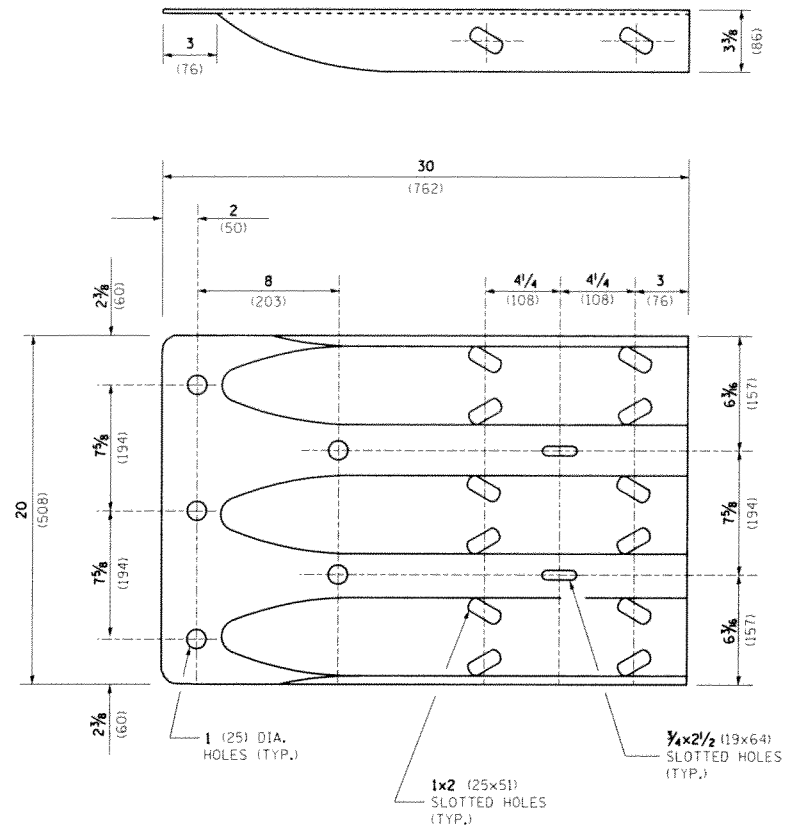
REVISED - STATE STANDARD:
631031-05 - 02/19/2008
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

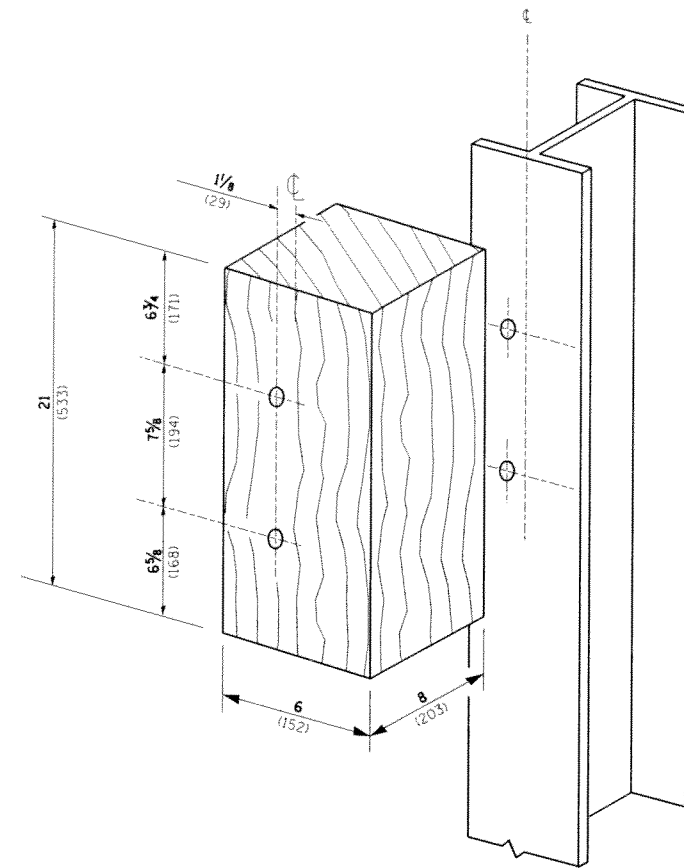
**TYPE 6 TERMINAL
FOR USE WITH 21" HIGH SPBGR**

SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.

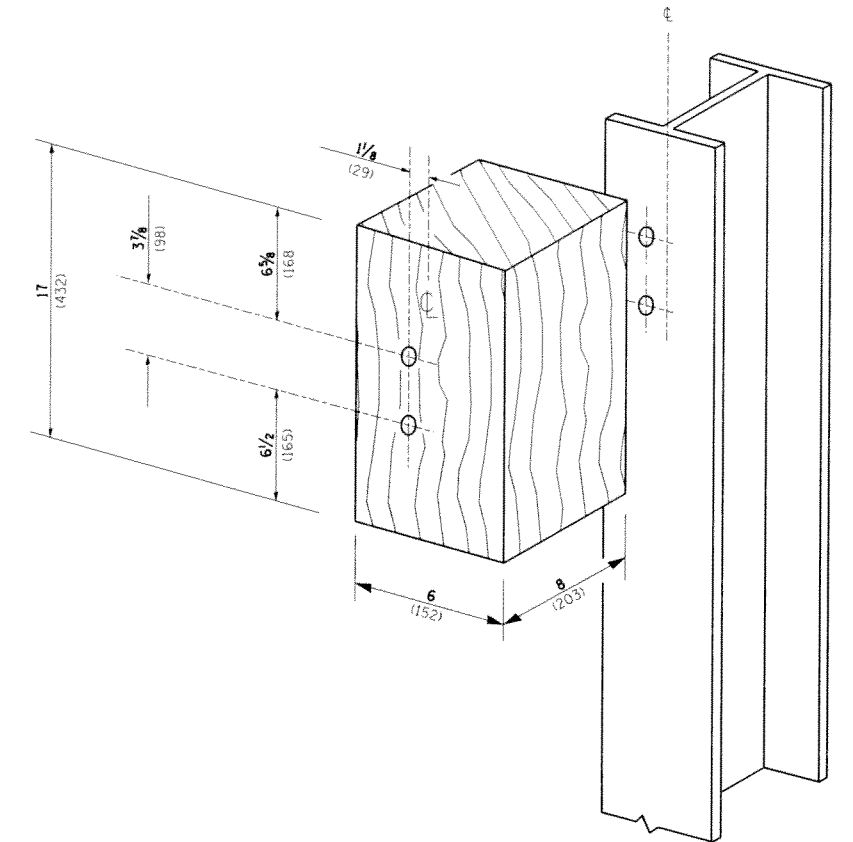
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2013-046SR	MC HENRY	44	40
BM 22			CONTRACT NO. 60W91	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



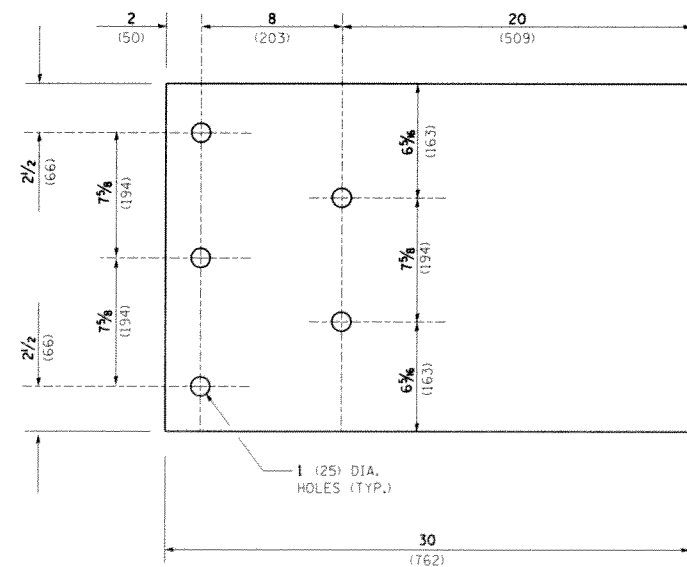
THRIE BEAM END SHOE DETAIL



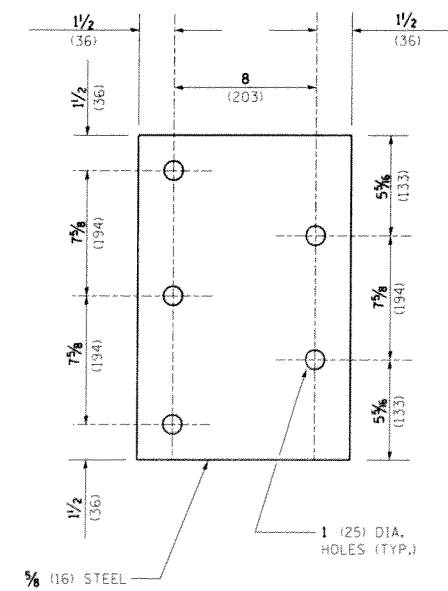
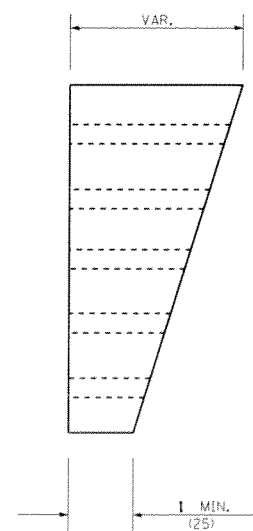
POSTS 1-11 WOOD BLOCKOUT DETAIL



POST 12 WOOD BLOCKOUT DETAIL



PARAPET WOOD BLOCK-OUT DETAIL



PARAPET STEEL BEARING PLATE DETAIL

(5 EACH INDIVIDUAL 5x5x5/8 (125x125x16) STEEL PLATES WITH CENTERED 1 (25) HOLES MAY BE SUBSTITUTED FOR THE PLATE SHOWN.)

FILE NAME =
c:\p\work\p\dot\stedpa\d0329923\d\std.dgn

USER NAME = stedpa
PLOT SCALE = 100.0000 1 / in.
PLOT DATE = 3/27/2014

DESIGNED -
DRAWN -
CHECKED -
DATE -

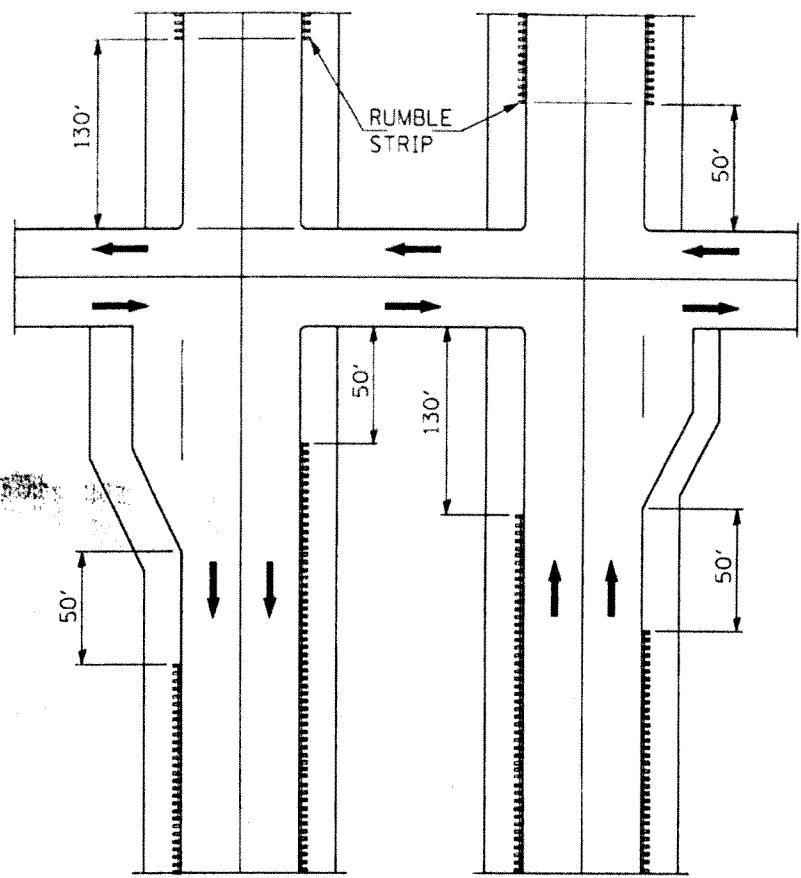
REVISED - STATE STANDARD
631031-05 - 02/19/2008
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

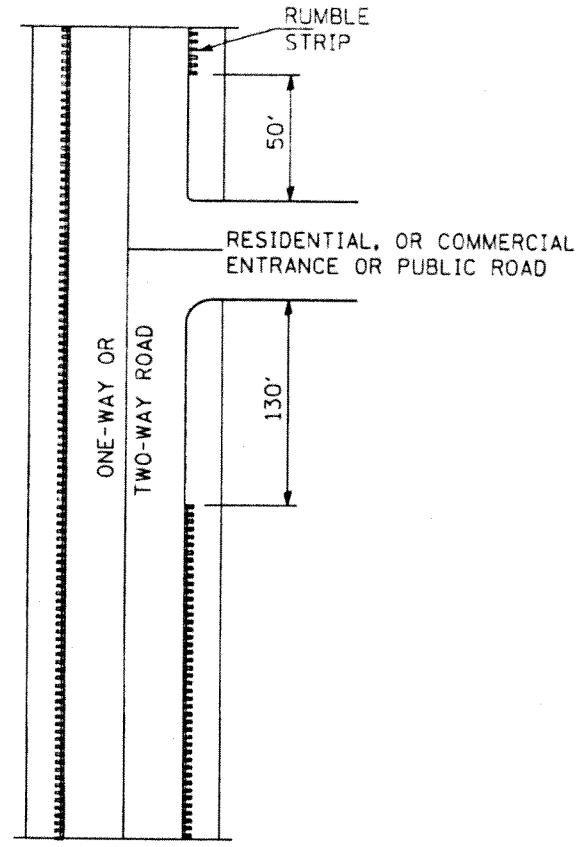
TYPE 6 TERMINAL
FOR USE WITH 21" HIGH SPBGR

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

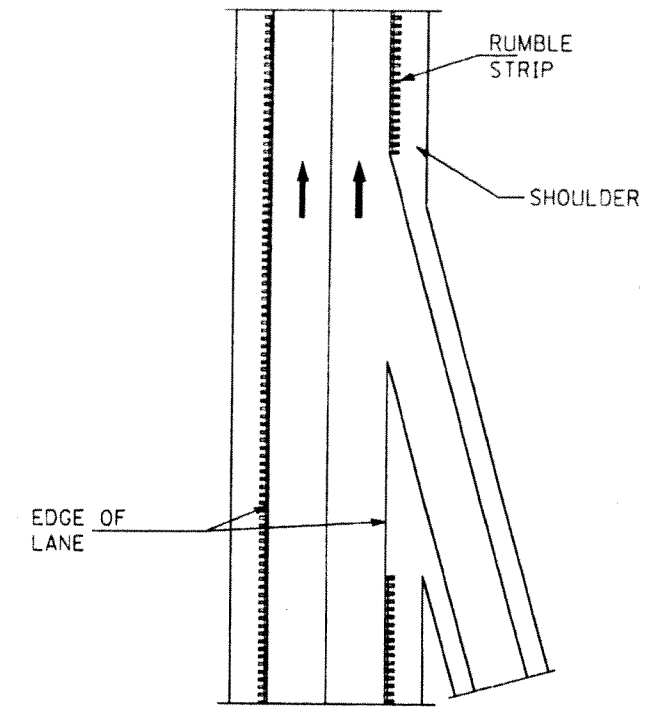
F.A.P. RTE. 305	SECTION 2013-046SR	COUNTY MC HENRY	TOTAL SHEETS 44	SHEET NO. 41
BM 22			CONTRACT NO. 60W91	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



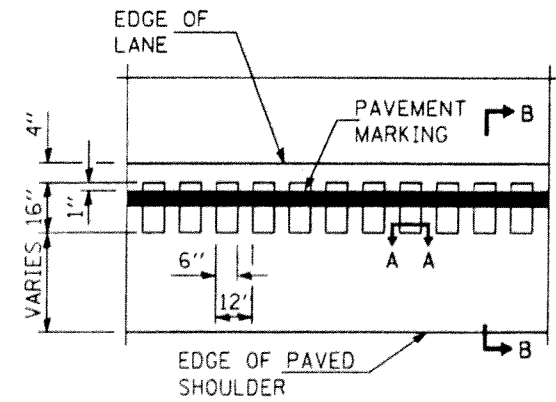
RUMBLE STRIPE EXPRESSWAY DIVIDED



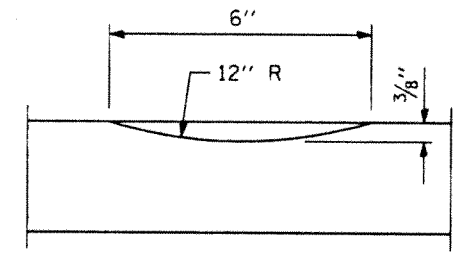
RUMBLE STRIPE INTERSECTIONS



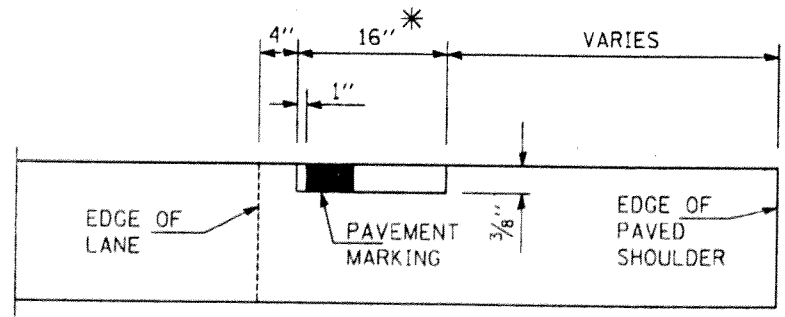
RUMBLE STRIPE ACCELERATION OR DECELERATION LANE



PLAN FOR RUMBLE STRIPE



SECTION A-A



SECTION B-B

GENERAL NOTES

ON PORTLAND CEMENT CONCRETE SHOULDERS, NO SHOULDER RUMBLE STRIPE SHALL BE LOCATED CLOSER THAN 150 mm (6") TO A TRANSVERSE JOINT.

OMIT SHOULDER RUMBLE STRIP ACROSS STRUCTURES.

SHOULDER RUMBLE STRIPES TO BE PAID FOR AS SHOULDER RUMBLE STRIP AND THERMOPLASTIC PAVEMENT MARKING - LINE 4"

* 8" WIDE RUMBLE STRIPES TO BE INSTALLED AT LOCATIONS ADJACENT TO GUARDRAIL W. HMA SHOULDERS < 3'

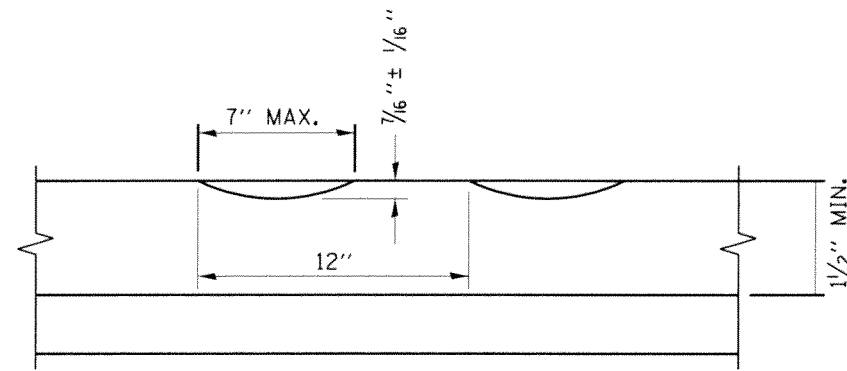
FILE NAME *	USER NAME *	DESIGNED -	REVISED -
cn:\pe_work\spindot\berkal\08161588\010311	berkal		
	PLT SCALE *	DRAWN -	REVISED -
	58.8000 / IN.		
	PLT DATE = 12/17/2009	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

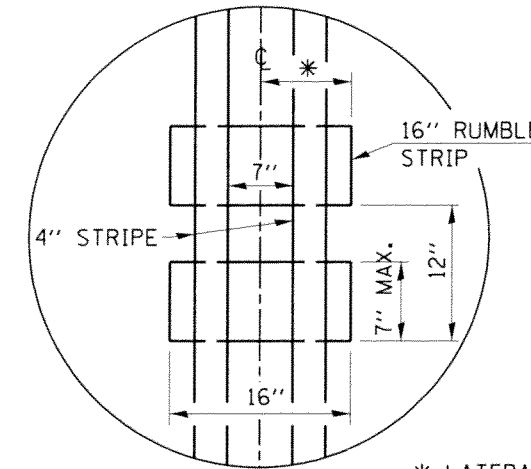
SHOULDER RUMBLE STRIPE FOR NON-FREEWAY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2013-0-465R	MCHENRY	44	42
CONTRACT NO 60091				
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

ILLINOIS FED. AID PROJECT



SECTION A-A



* LATERAL DEVIATION SHALL NOT EXCEED ONE INCH IN 100 FEET.

DETAIL B

GENERAL NOTES

CENTERLINE RUMBLE STRIPS SHALL BE CONSTRUCTED ACCORDING TO SECTION 642 ALONG THE CENTERLINE OF PAVEMENT.

SEE STANDARD 780001 FOR OTHER STRIPING LAYOUTS. RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES. ALL RUMBLE STRIPS SHALL BE MILLED.

CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS THROUGH CONNECTIONS OF SIDEROADS WITH NO LEFT TURN LANES.

DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES, INCLUDING ANY LANE TAPER SECTIONS.

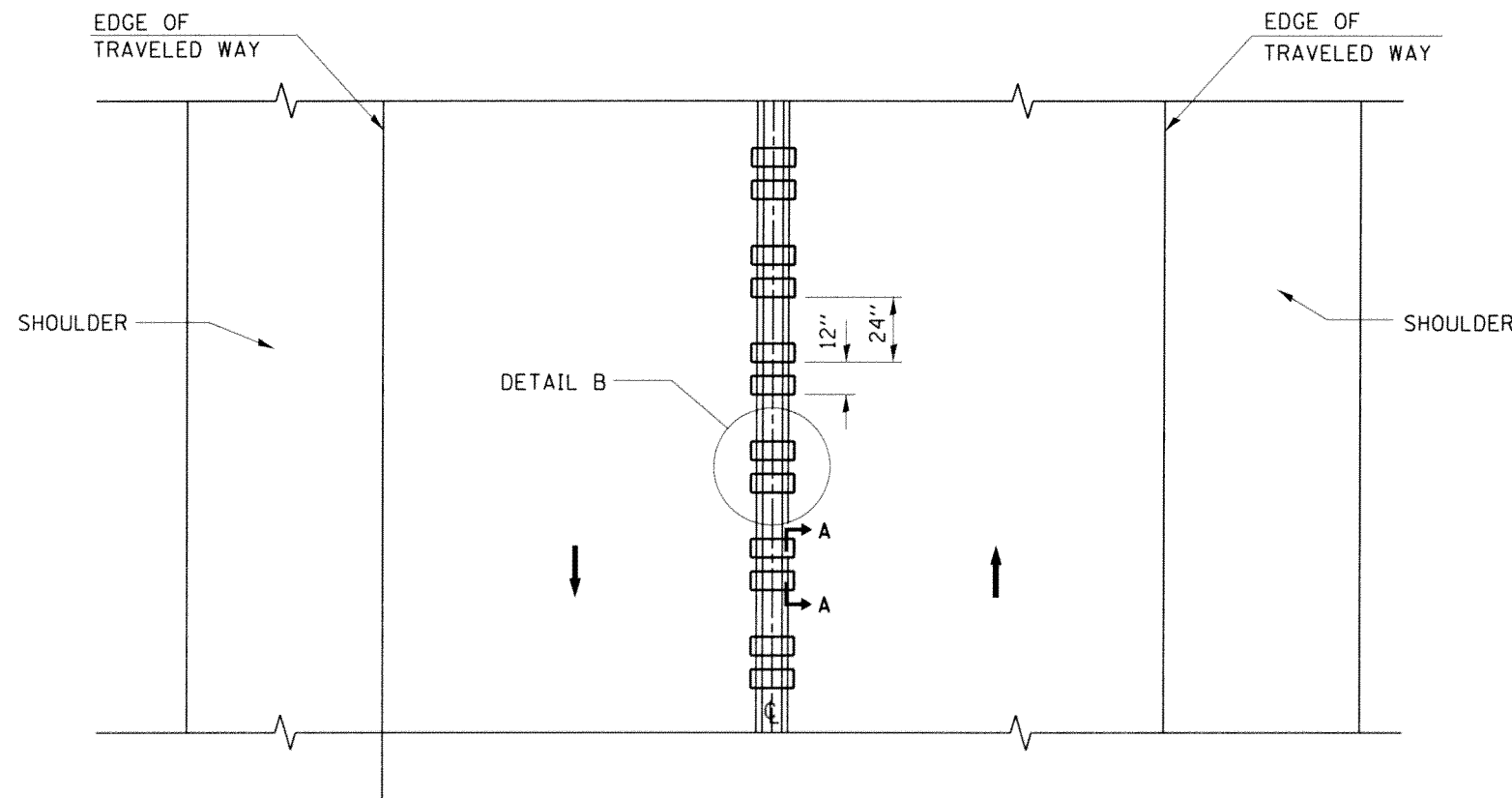
AFTER RUMBLE STRIPS ARE INSTALLED, THE PAVEMENT SURFACE SHALL BE SWEEPED CLEAN PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT MARKINGS.

WHERE USED, ADJUST SPACING OF RAISED REFLECTIVE PAVEMENT MARKERS TO FALL IN WIDER GAP BETWEEN RUMBLE STRIPS.

BASIS OF PAYMENT

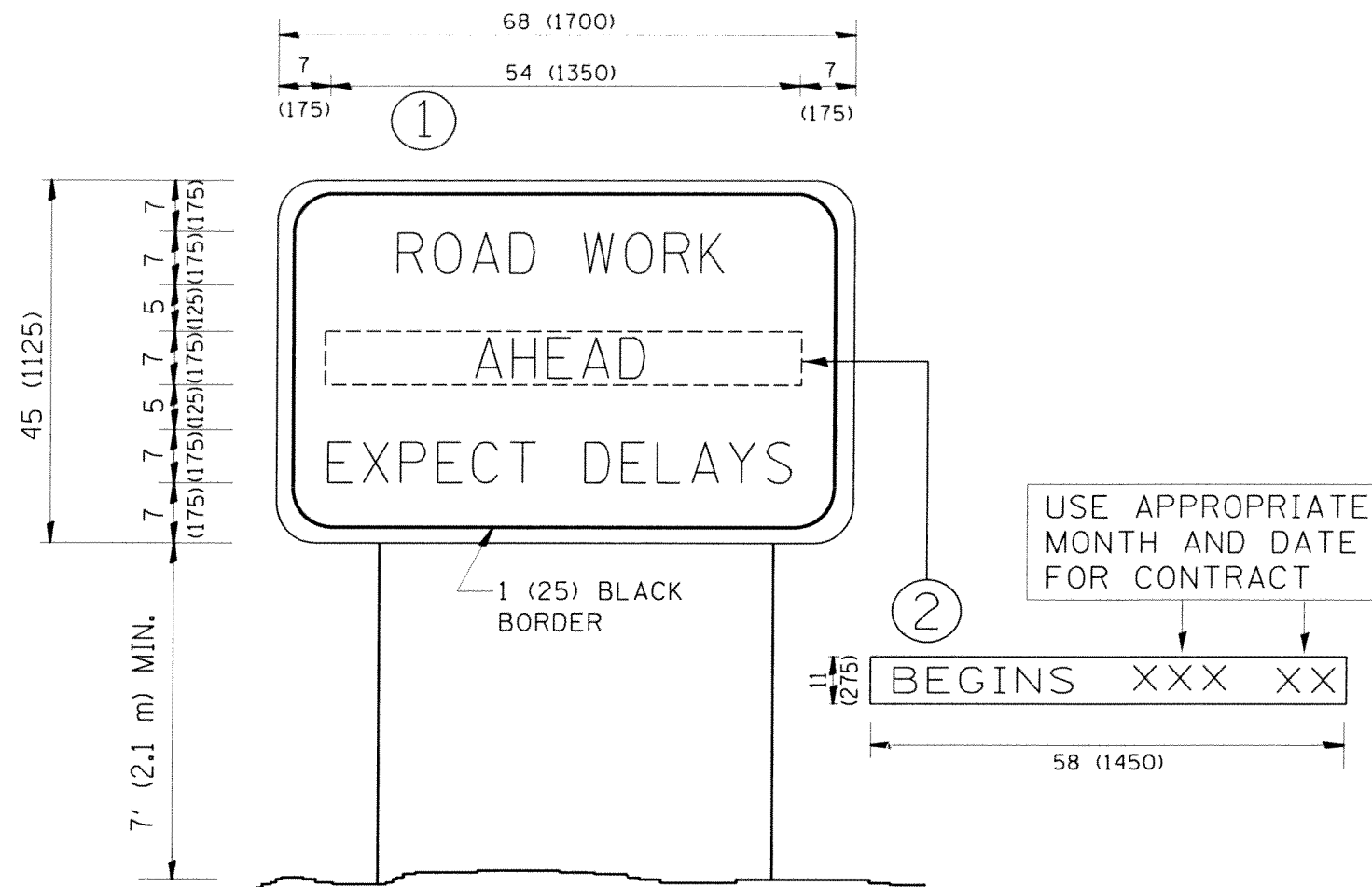
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR CENTERLINE-RUMBLE STRIP OF THE WIDTH SPECIFIED.

HOT-SPRAY THERMOPLASTIC PAVEMENT MARKING WILL BE USED OVER THE RUMBLE STRIPS, AND WILL BE PAID FOR SEPARATELY.



TWO-WAY ROAD

FILE NAME =	USER NAME = steedpe	DESIGNED - R. BORO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUMBLE STRIPES FOR CENTERLINE, NON-FREEWAY	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\px_work\p\dot\stedpe\d0329923\01st	td.dgn	DRAWN -	REVISED -			305	2013-046SR	MC HENRY	44	43	
	PLOT SCALE = 100.0000 1/ in.	CHECKED -	REVISED -			BD 55		CONTRACT NO. 60W91			
	PLOT DATE = 3/27/2014	DATE - 08-06-2012	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	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.

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0:\pw_work\pwidot\stedpa\08329923\Dist\dgn	DRAWN -	REVISED - R. MIRS 12-11-97	305			2013-0465R	MC HENRY	44	44	
PLOT SCALE = 100,0000 1/ in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	TC-22			CONTRACT NO. 60W91				
PLOT DATE = 3/27/2014	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	