

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11 & 12) RS-11	MCHENRY	21	1
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

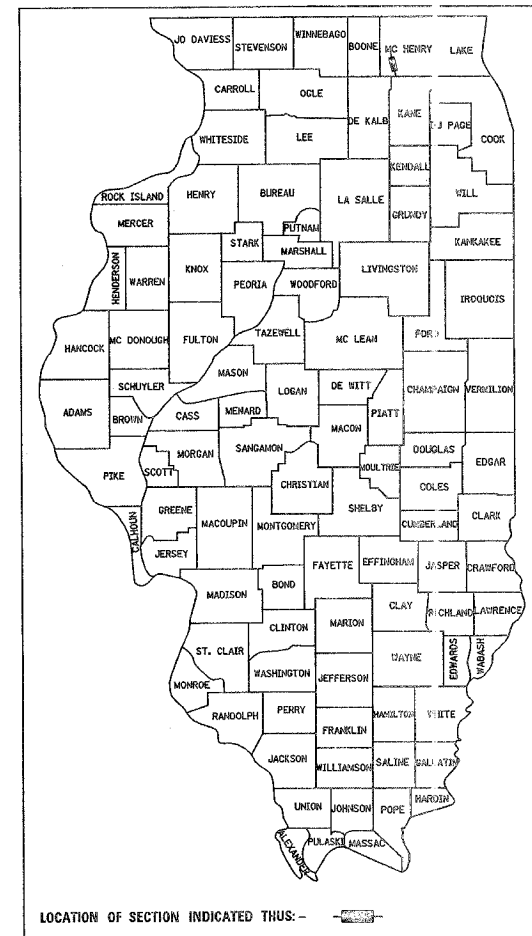
PROPOSED HIGHWAY PLANS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

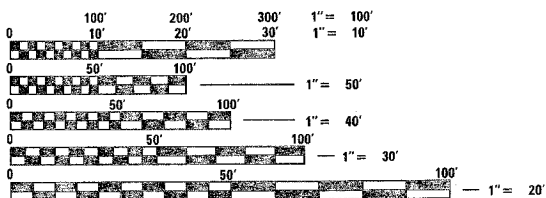
F.A.P. RTE. 525: US 20 (EAST / SOUTH GRANT HIGHWAY)
SECTION: (11 & 12) RS-11
WEST UNION RD. TO GETTY RD.
RESURFACING (MAINTENANCE)
MCHENRY COUNTY
C-91-386-06

IMPROVEMENT LOCATED IN
UNINCORPORATED MCHENRY COUNTY

D-91-386-06

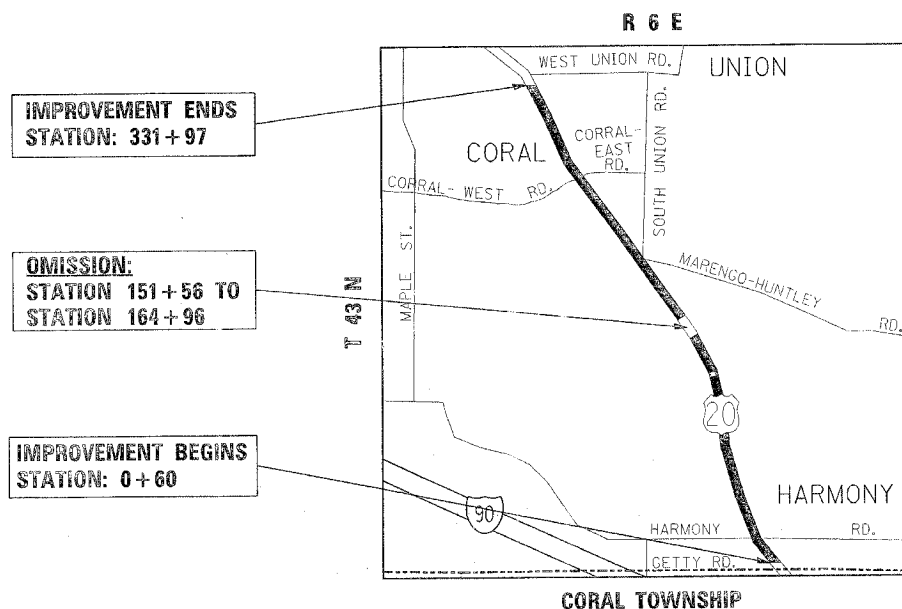


DISTRICT ONE - DESIGN: PLAN PREPARATION ENGINEER KEN ENG / LONG TRAN (847) 705-4240



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.

CONTRACT NO. 60B64



TRAFFIC DATA

2005 ADT = 9,400
SPEED = 55 MPH

MAP SCALE : [Symbol] 1.0 MILE

GROSS LENGTH OF IMPROVEMENT = 33,137 FEET = 6.28 MILES
NET LENGTH OF IMPROVEMENT = 31,797 FEET = 6.02 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED FEB 9 20 07
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGIONAL ENGINEER
March 23 20 07
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT
March 23 20 07
[Signature]
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11 & 12) RS-11	McHENRY	21	2
STA. +		TO STA. +		
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS AND HMA MIXTURE REQUIREMENTS
- 5-12 ROADWAY & PAVEMENT MARKING PLANS
- 13 BUTT-JOINT AND HMA TAPER DETAILS
- 14 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
- 15 TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- 16 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- 17 TRAFFIC CONTROL AND PROTECTION AND TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
- 18 TEMPORARY INFORMATION SIGNING
- 19 METHOD OF FLAGGING
- 20 PAVEMENT MARKING LETTERS & SYMBOLS FOR TRAFFIC STAGING
- 21 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE MAXIMUM GRADE DIFFERENTIAL BETWEEN LANES SHALL NOT EXCEED 40MM (1-1/2 INCHES) WHERE THE SPEED LIMIT IS 80 KM/H (45 MPH) OR LESS AND 25MM (1 INCH) WHERE THE SPEED LIMIT IS GREATER THAN 80 KM/H (45 MPH).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND CORAL TOWNSHIP.

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

THE RESIDENT ENGINEER SHOULD CONTACT MS. DEBBIE HANLON, AREA TRAFFIC FIELD ENGINEERS, AT (847) 438-2300 PRIOR TO INSTALLING ANY PAVEMENT MARKING.

UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR THE CONTRACT SPECIFICATIONS, OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION IMPROVEMENTS INVOLVING DAYTIME HOT-IN-PLACE RECYCLING AND RESURFACING OPERATIONS.

LIMIT OF RESURFACING ON SIDE-STREETS THROUGH OUT THE IMPROVEMENT SHALL BE TO THE RADIUS OF RETURN OR AS DIRECTED BY THE ENGINEER.

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

ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKER DETAIL," (TC-11).

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

STATE STANDARDS

- 000001-04 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701006-02 OFF-ROAD OPERATIONS 2L, 2W, 4.5M (15') TO 600 MM (24") FROM PAVEMENT EDGE
- 701011-01 OFF-ROAD OPERATIONS 2L, 2W DAY ONLY FOR SPEEDS \geq 45 MPH
- 701201-02 LANE CLOSURE 2L, 2W DAY ONLY ON-ROAD TO 600 MM (24") OFF-ROAD FOR SPEEDS \geq 45 MPH
- 701301-02 LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
- 701306-01 LANE CLOSURE 2L, 2W SLOW MOVING OPERATIONS-DAY ONLY FOR SPEEDS \geq 45 MPH
- 701311-02 LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
- 702001-06 TRAFFIC CONTROL DEVICES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INDEX OF SHEETS, GENERAL NOTES,
 AND STATE STANDARDS

SCALE: VERT.
 HORIZ.
 DATE 2/7/2007

DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11 & 12) RS-II	MCHENRY	21	3
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		URBAN 1000 100% STATE				
20201006	GRADING AND SHAPING SHOULDERS	UNIT	650	650				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	42	42				
40600300	AGGREGATE (PRIME COAT)	TON	200	200				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	35	35				
40600895	CONSTRUCTING TEST STRIP	EACH	2	2				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	120	120				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	230	230				
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	8355	8355				
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	96510	96510				
44002215	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3 3/4"	SQ YD	900	900				
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	745	745				
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	75	75				
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	60	60				
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	2600	2600				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				
67100100	MOBILIZATION	L SUM	1	1				
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1				
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1				
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	64400	64400				
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73	73				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	112100	112100				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	500	500				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	850	850				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	105	105				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		URBAN 1000 100% STATE				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	19400	19400				
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73	73				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	112110	112110				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	500	500				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	850	850				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	105	105				
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	773	773				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	713	713				
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4				
X406710T	POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE IL-4.75, N50	TON	4180	4180				

* SPECIALTY ITEM

REVISIONS	
NAME	DATE

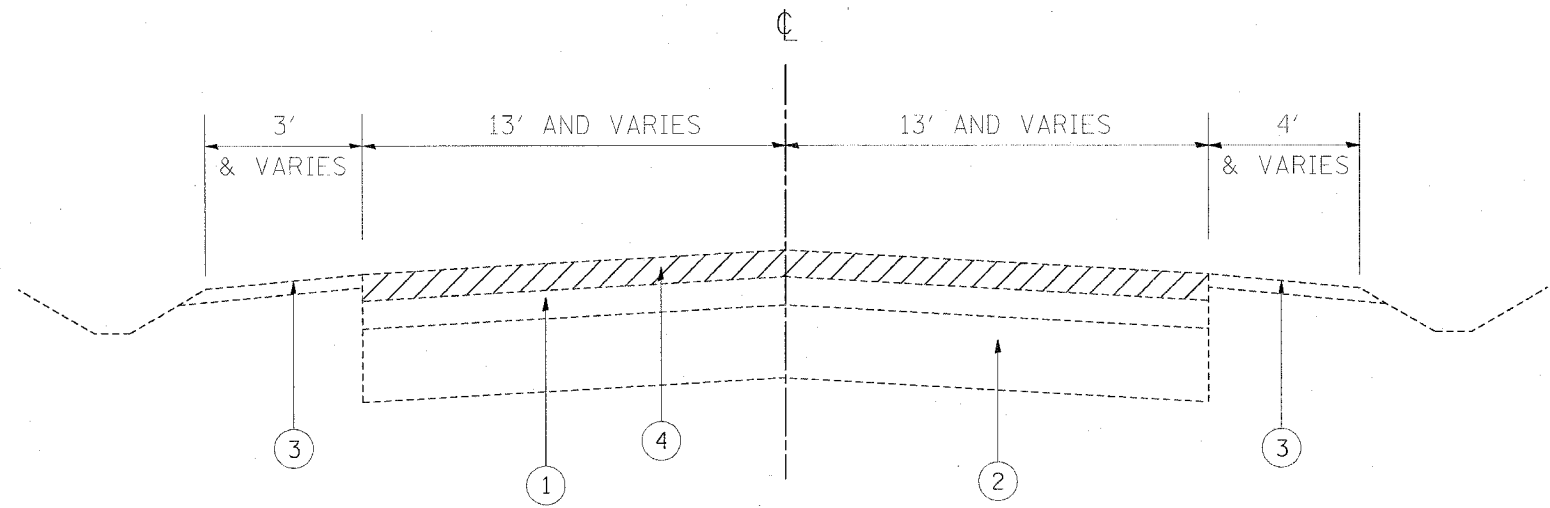
ILLINOIS DEPARTMENT OF TRANSPORTATION
US 20
SUMMARY OF QUANTITIES

Rev.

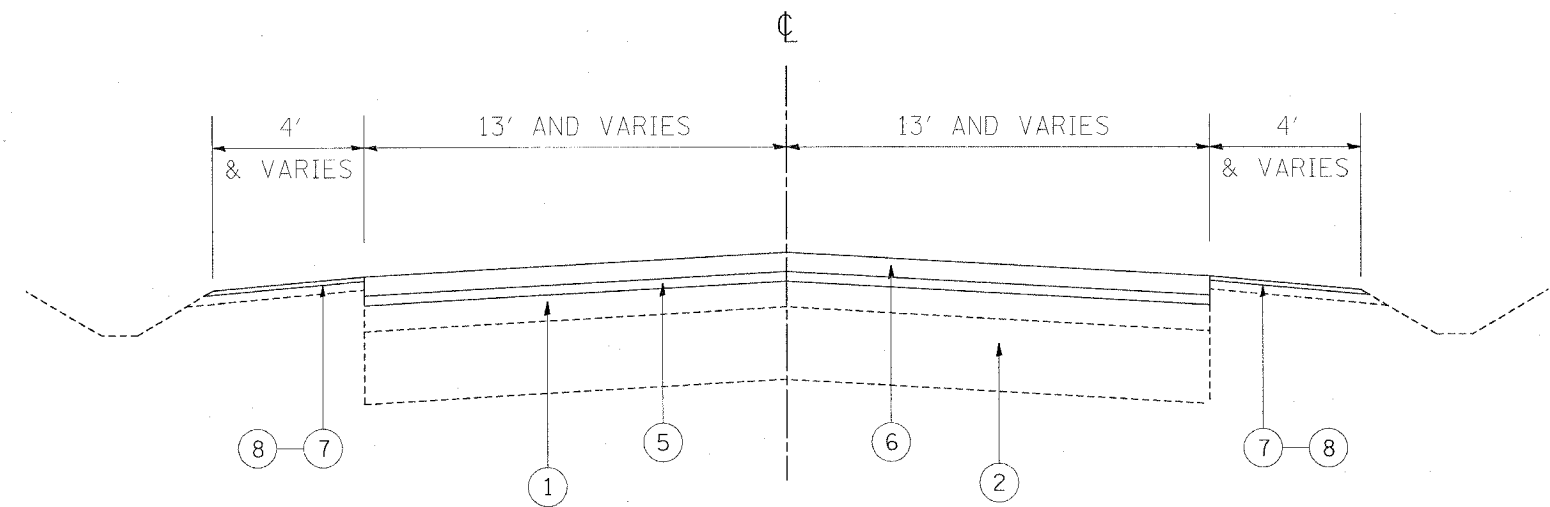
PLOT DATE: 2/10/2007

2/10/2007 9:58:00 AM C:\PROJECTS\60B64\60B64.DWG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11 & 12) RS-11	McHENRY	21	4
STA. +		TO STA. +		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

LEGEND

- ① EXISTING HOT-MX ASPHALT PAVEMENT, 6" (±)
- ② EXISTING PCC BASE COURSE, 8" (±)
- ③ EXISTING AGGREGATE SHOULDER
- ④ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- ⑤ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, (3/4")
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (1 1/2")
- ⑦ PROPOSED GRADING & SHAPING SHOULDER
- ⑧ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE	AC/PG	AIR VOIDS (%)
<i>PAVEMENT RESURFACING</i>		
HMA SURFACE COURSE, MIX "D", N70	PG 64-22	4% @ 70 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	SBS/SBR PG 76-28	2.5% @ 50 GYR.
<i>PAVEMENT PATCHING</i>		
HMA REPLACEMENT OVER PATCHES, BINDER IL-19.0 (MM)	PG 64-22	4% @ 70 GYR.
CLASS D PATCH, BINDER IL-19.0 (MM)	PG 64-22	4% @ 70 GYR.

THE UNIT WEIGHT FOR ALL BITUMINOUS SURFACE MIXTURE QUANTITIES IS 112 LBS / SQ. YD. / IN WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		US 20 EXISTING & PROPOSED TYPICAL SECTIONS AND HMA MIXTURE REQUIREMENTS

SCALE: VERT. _____
HORIZ. _____
DATE 2/1/2007

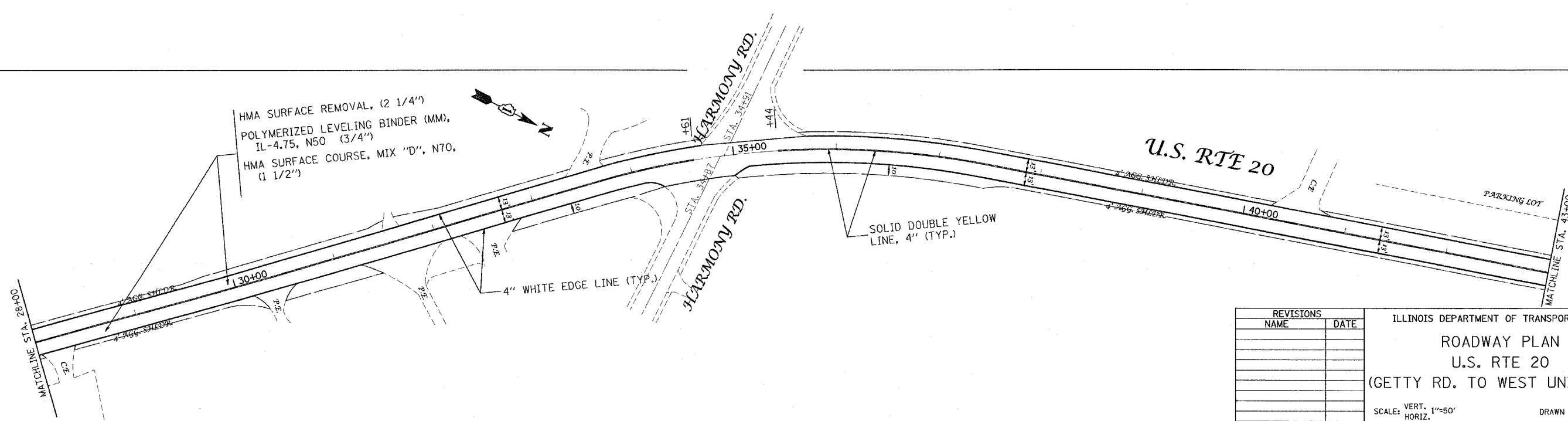
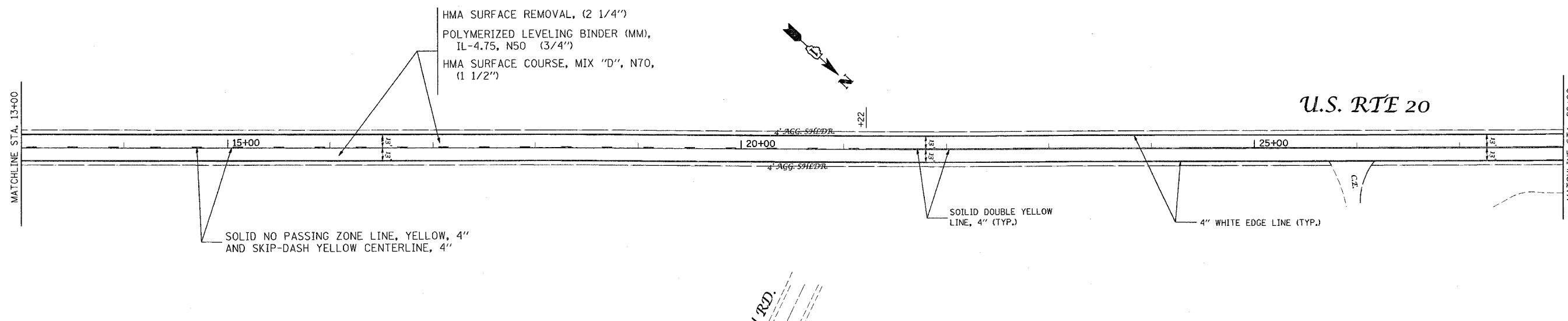
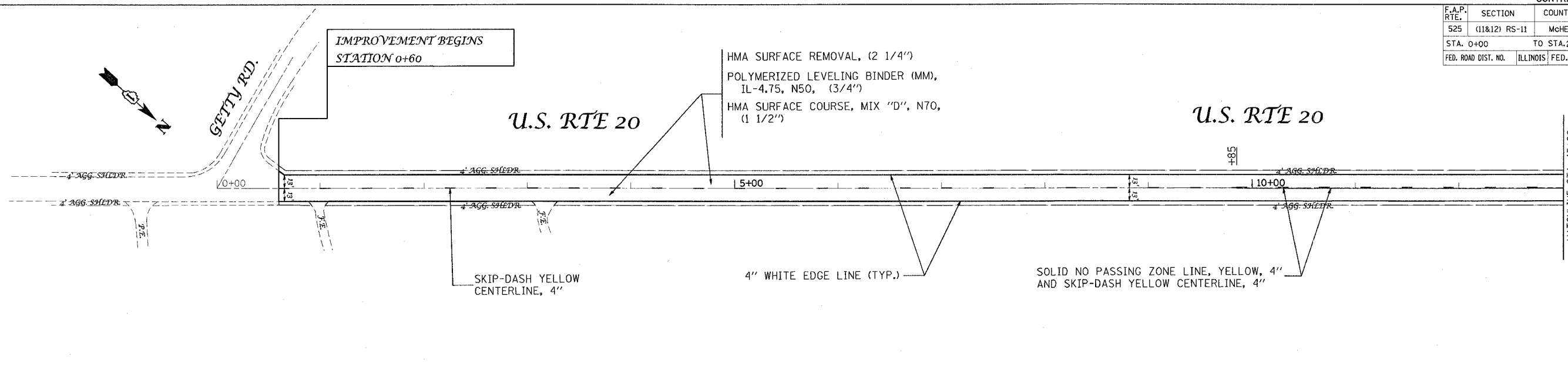
DRAWN BY _____
CHECKED BY _____

PLOT DATE = 2/1/2007
FILE NAME = c:\projects\138595\design\ac.dgn
PLOT SCALE = 50.0001' / 1" IN.
REFERENCE = #REF#

*REF-top01
 *REF-top02
 *REF-top03

CONTRACT NO. 60B64

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(118.12) RS-11	McHENRY	21	5
STA. 0+00		TO STA. 28+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PLOT DATE = 2/13/2007
 FILE NAME = c:\p\projects\118686\ah.dwg
 PLOT SCALE = 1/8" = 1' IN.
 USER NAME = trent

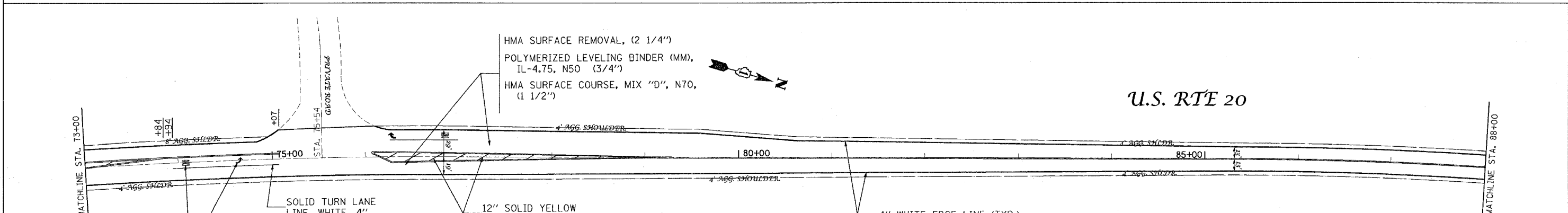
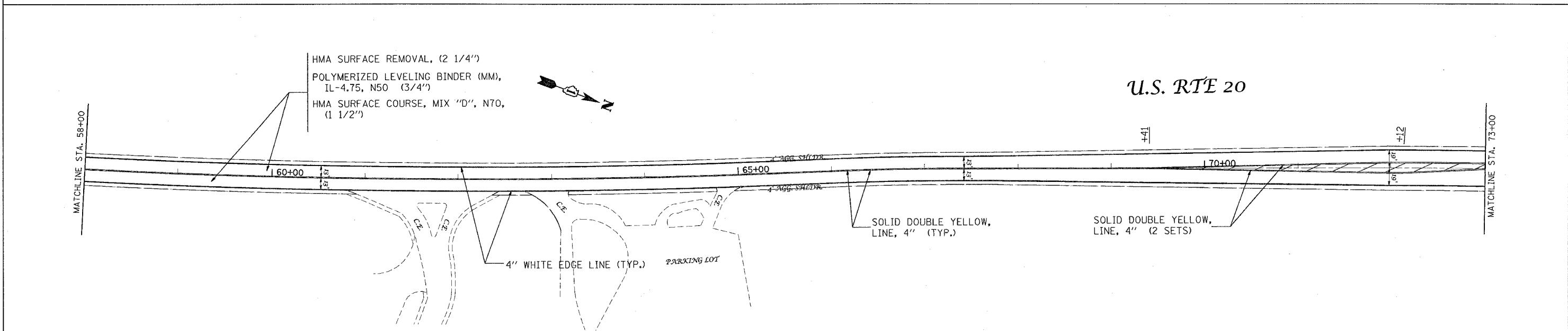
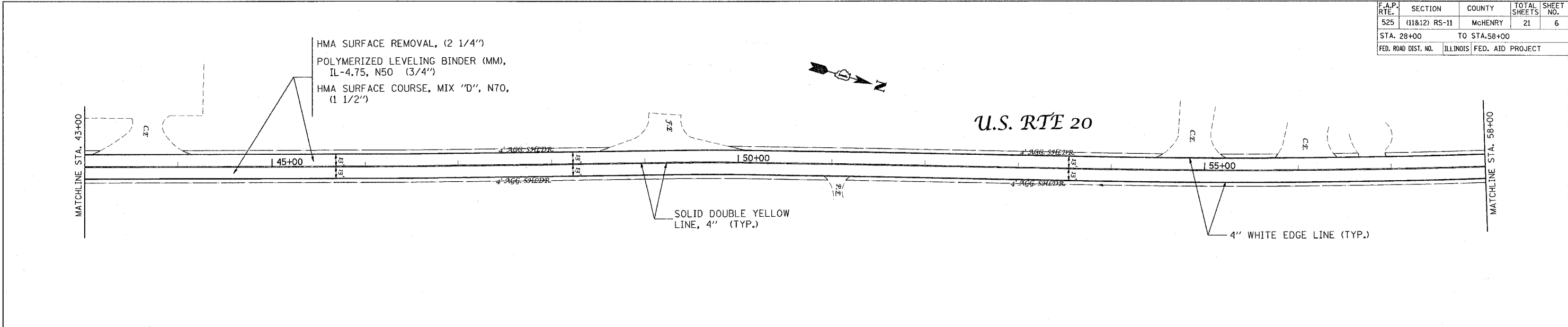
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ROADWAY PLAN
 U.S. RTE 20
 (GETTY RD. TO WEST UNION RD.)
 SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 2/13/2007
 DRAWN BY
 CHECKED BY

*REF-topo04
 *REF-topo05
 *REF-topo06

CONTRACT NO. 60B64

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11812) RS-11	McHENRY	21	6
STA. 28+00		TO STA. 58+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PLOT DATE = 2/13/2007
 FILE NAME = c:\p\projects\11812\11812.dwg
 PLOT SCALE = 1/8" = 1' / IN.
 USER NAME = j.pront

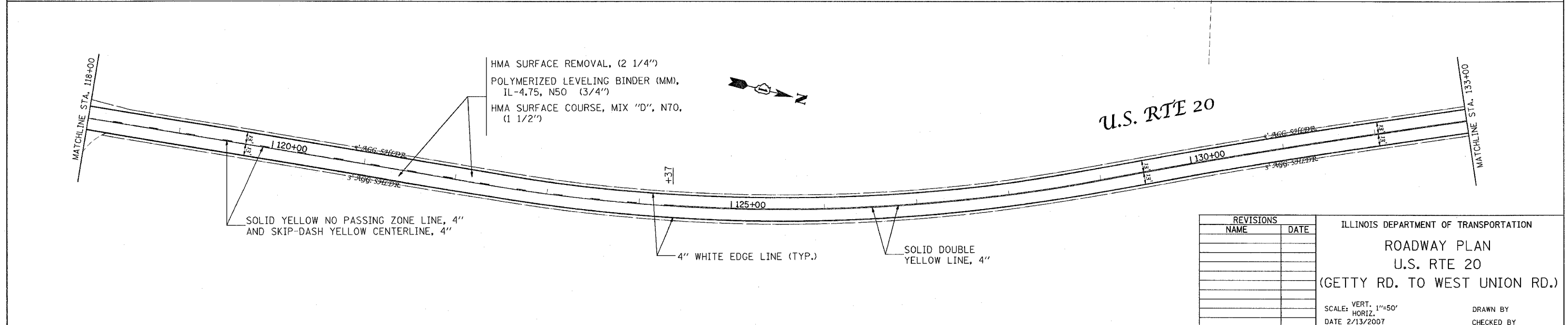
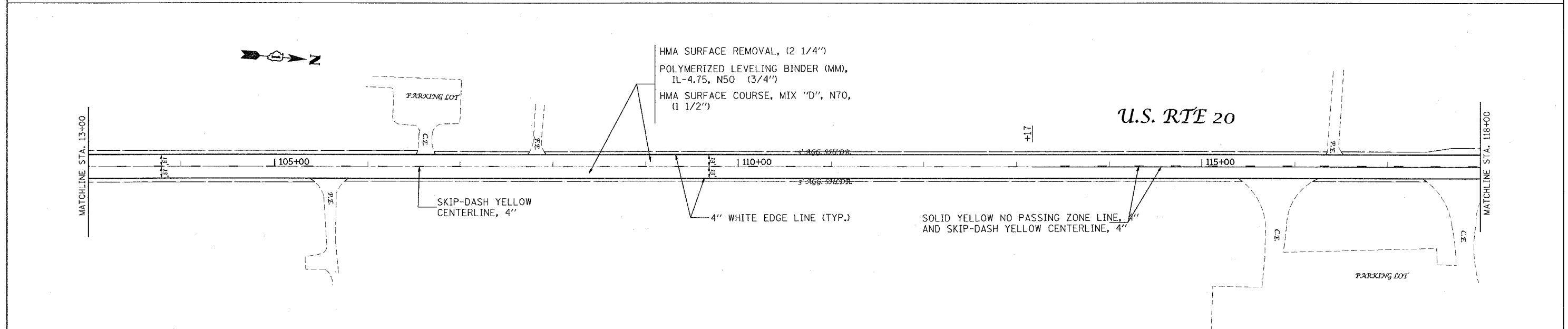
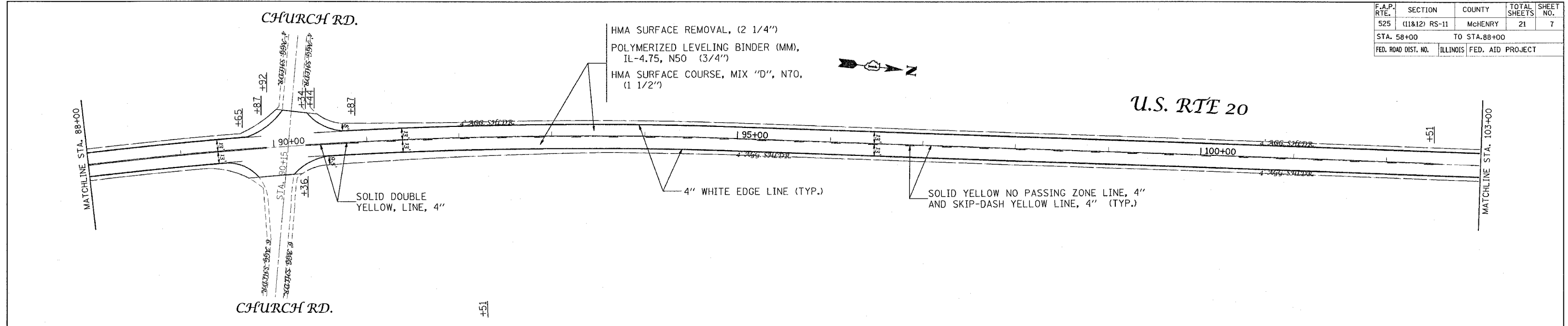
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ROADWAY PLAN
 U.S. RTE 20
 (GETTY RD. TO WEST UNION RD.)
 SCALE: VERT. 1"=50'
 HORIZ. DATE 2/13/2007
 DRAWN BY
 CHECKED BY

*REF-top007
 *REF-top008
 *REF-top009

CONTRACT NO. 60864

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11&12) RS-11	McHENRY	21	7
STA. 58+00		TO STA. 88+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLOT DATE = 2/13/2007
 FILE NAME = c:\p\c\p\60864\plan.dwg
 PLOT SCALE = 50.0000 / 1 IN.
 USER NAME = brant

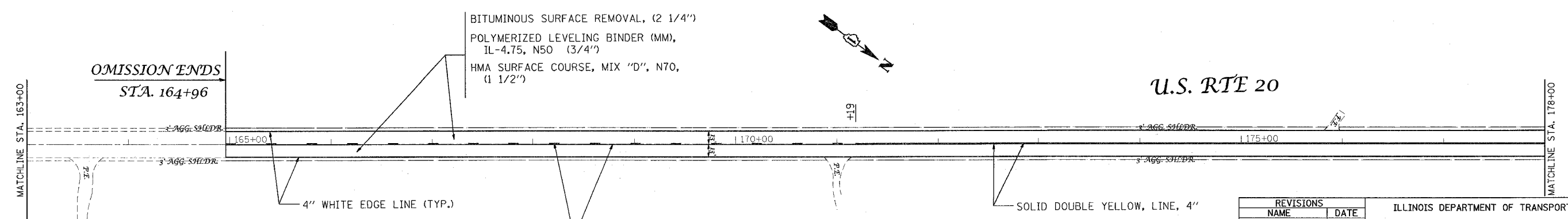
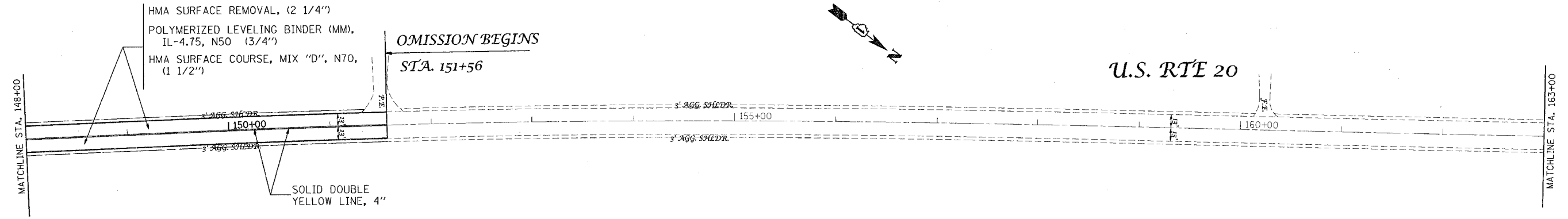
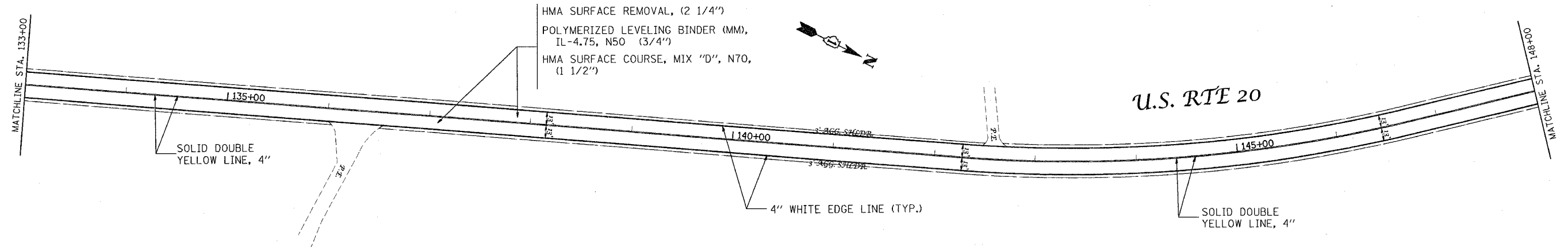
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ROADWAY PLAN
 U.S. RTE 20
 (GETTY RD. TO WEST UNION RD.)
 SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 2/13/2007
 DRAWN BY
 CHECKED BY

*REF-topol0
 *REF-topol1
 *REF-topol2

CONTRACT NO. 60B64

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11&12) RS-II	McHENRY	21	8
STA. 88+00		TO STA. 118+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLOT DATE = 2/13/2007
 FILE NAME = c:\projects\11386065\ah.dwg
 PLOT SCALE = 1/8" = 1' / IN.
 USER NAME = tranls

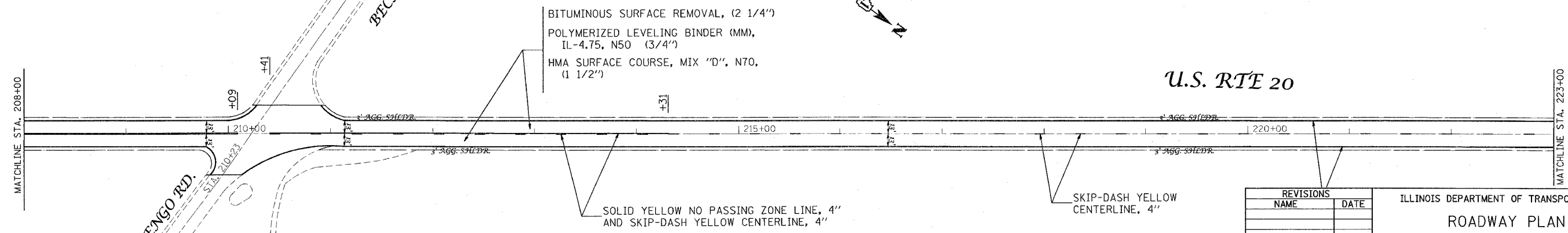
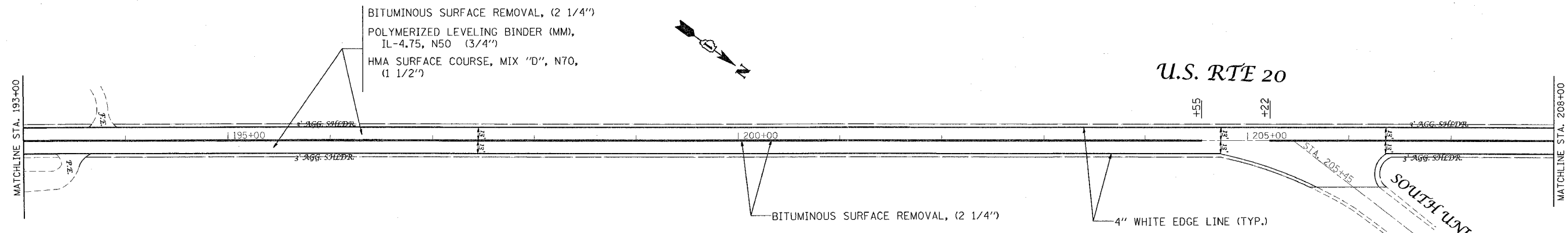
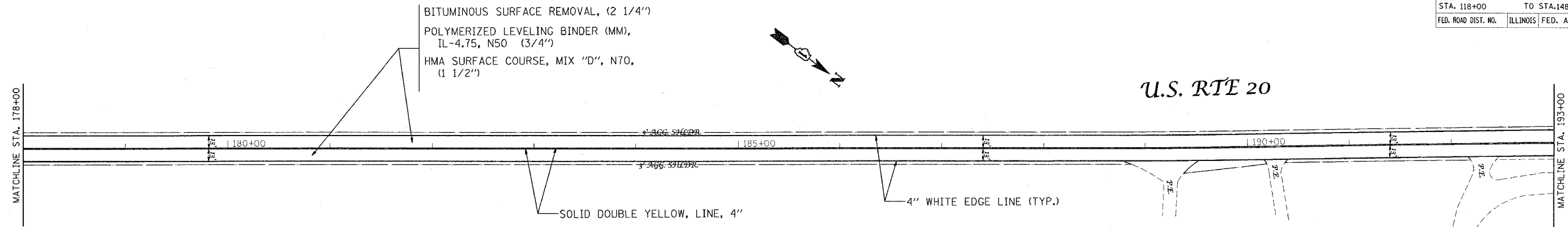
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ROADWAY PLAN
 U.S. RTE 20
 (GETTY RD. TO WEST UNION RD.)
 SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 2/13/2007
 DRAWN BY
 CHECKED BY

*REF-topol3
 *REF-topol4
 *REF-topol5

CONTRACT NO. 60B64

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11&12) RS-11	McHENRY	21	9
STA. 118+00		TO STA. 148+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PLOT DATE = 2/13/2007
 FILE NAME = c:\projects\6138686\ah.dwg
 PLOT SCALE = 50.0000 / 1"
 USER NAME = trent

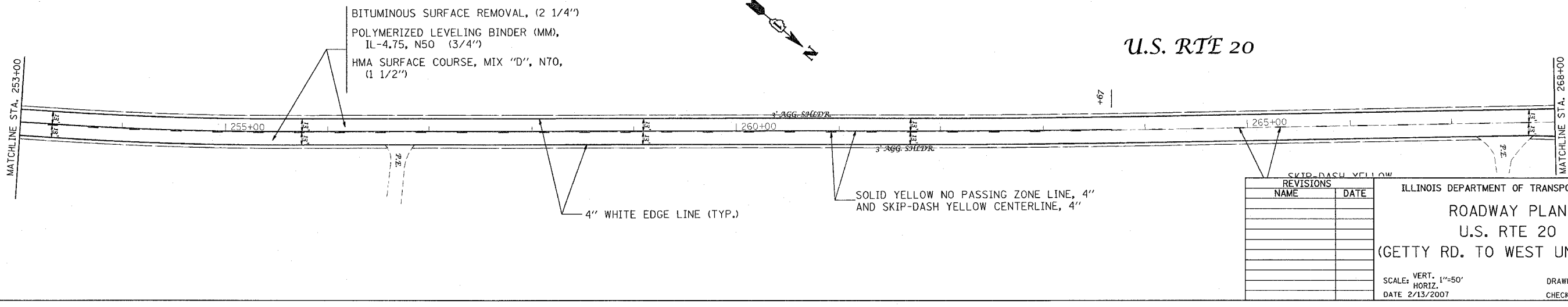
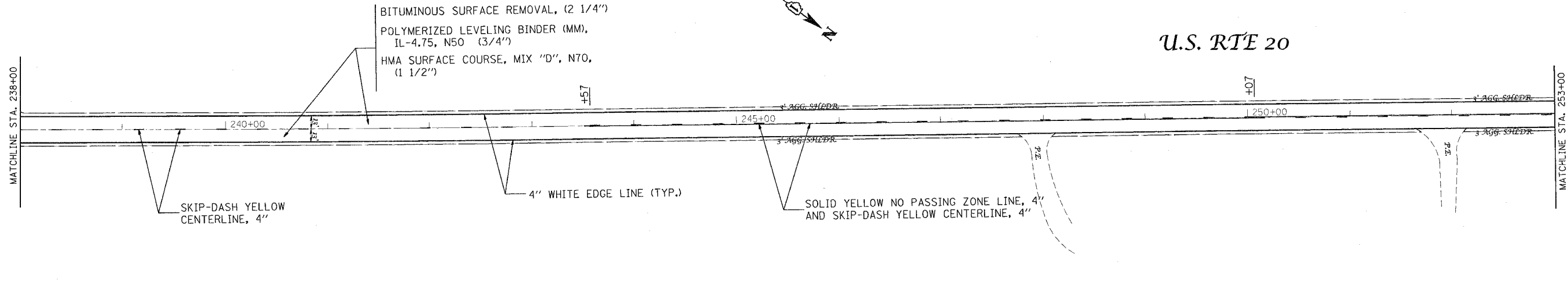
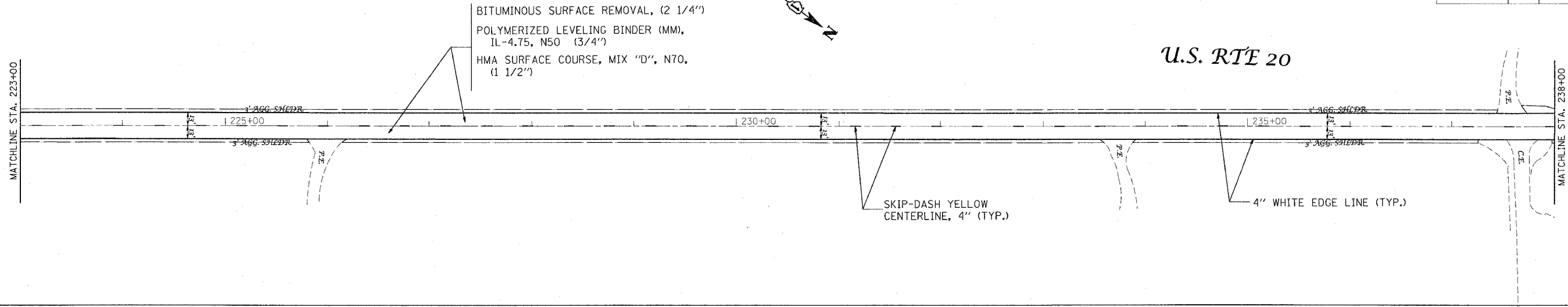
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ROADWAY PLAN
 U.S. RTE 20
 (GETTY RD. TO WEST UNION RD.)
 SCALE: VERT. 1"=50'
 HORIZ.
 DATE 2/13/2007
 DRAWN BY
 CHECKED BY

*REF-1ap06
 *REF-1ap07
 *REF-1ap08

CONTRACT NO. 60B64

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11&12) RS-11	McHENRY	21	10
STA. 148+00		TO STA. 178+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PLOT DATE = 2/13/2007
 FILE NAME = c:\p\proj\60b64\10\10.dwg
 PLOT SCALE = 1/8" = 1' IN.
 USER NAME = trent

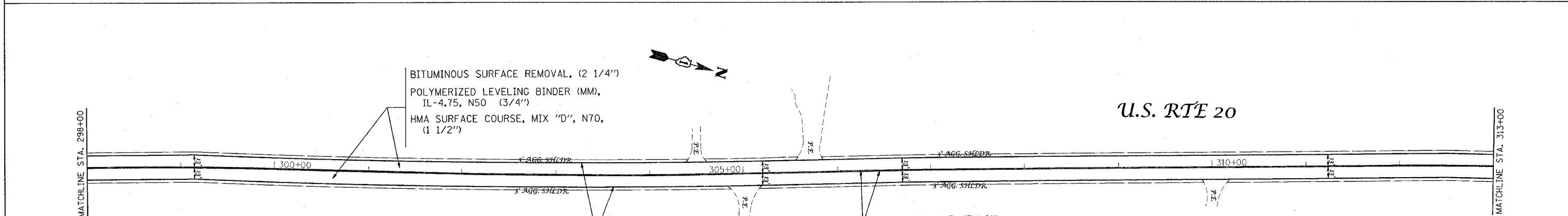
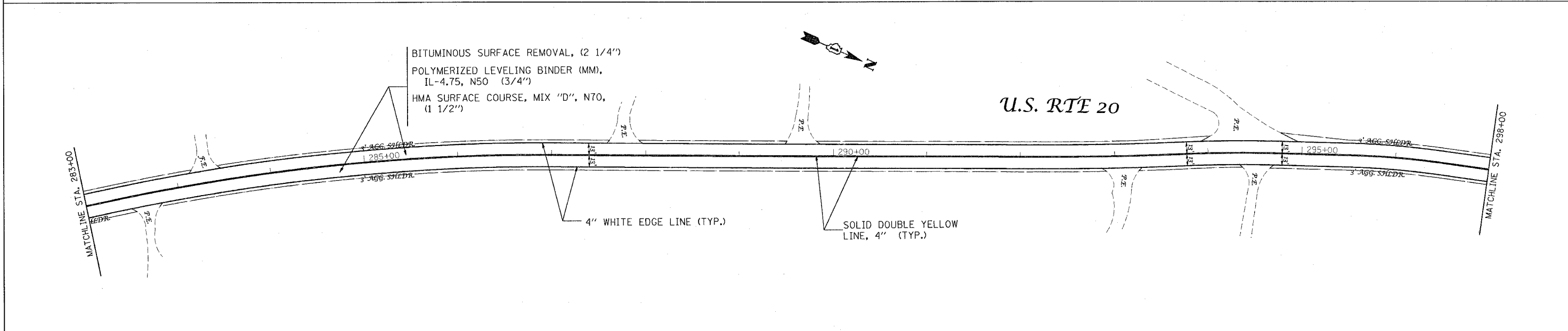
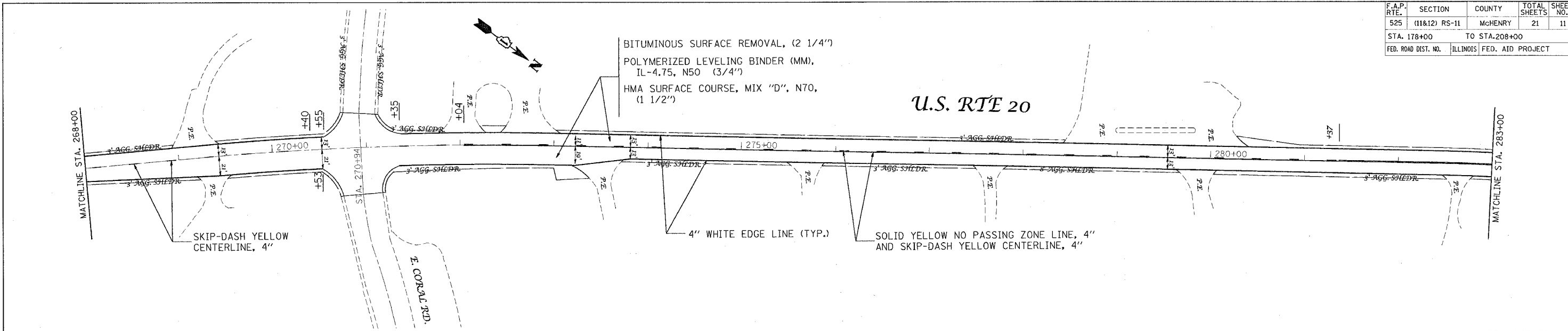
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ROADWAY PLAN
 U.S. RTE 20
 (GETTY RD. TO WEST UNION RD.)
 SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 2/13/2007
 DRAWN BY
 CHECKED BY

*REF-topo19
 *REF-topo20
 *REF-topo21

CONTRACT NO. 60B64

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11&12) RS-11	McHENRY	21	11
STA. 178+00		TO STA. 208+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

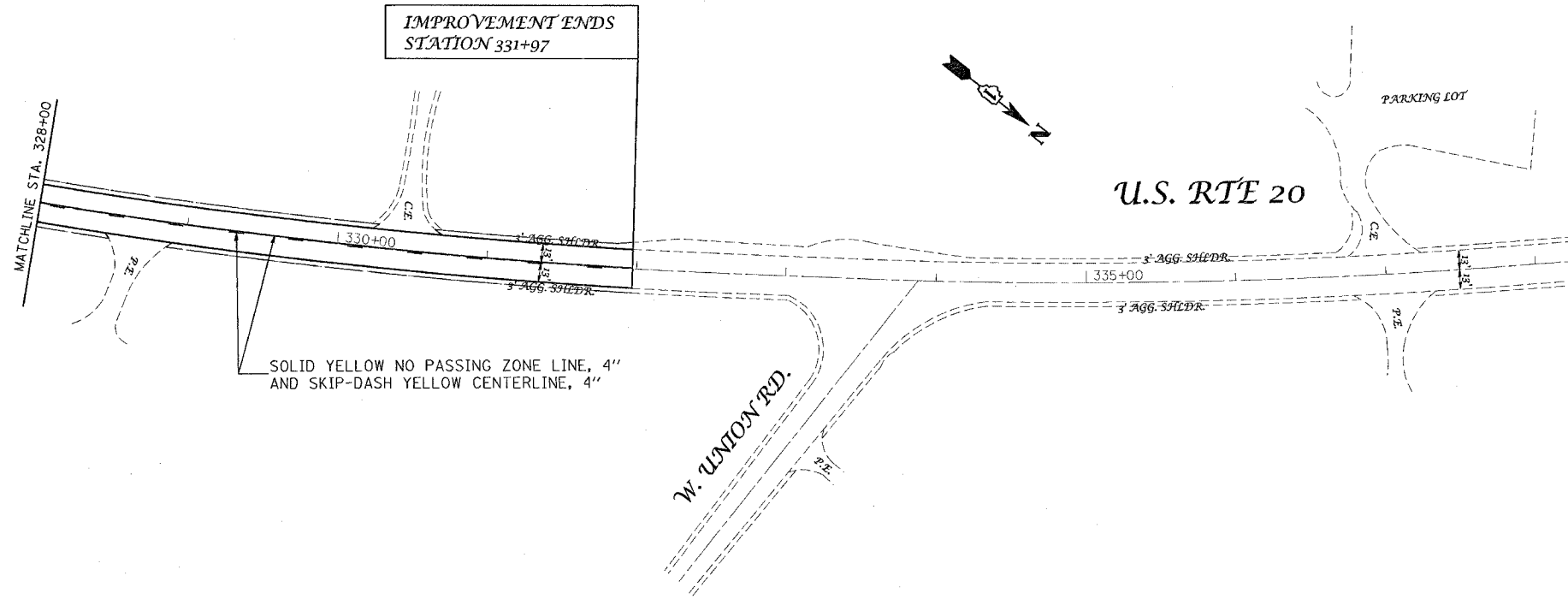
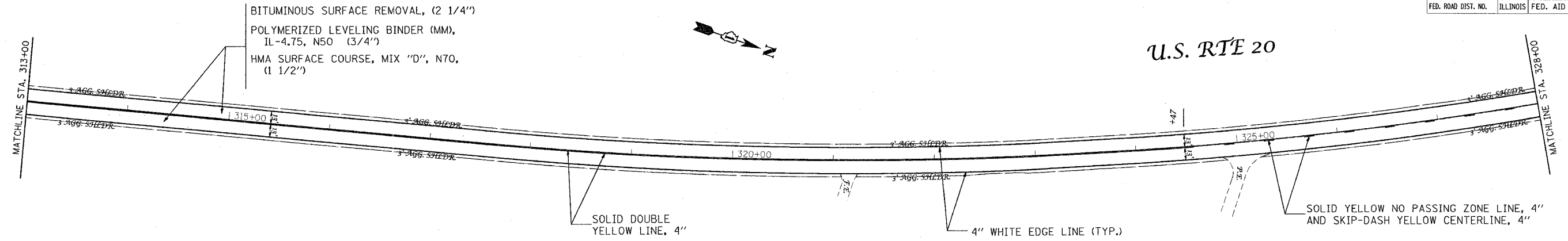


PLT DATE = 2/13/2007
 FILE NAME = c:\p\m\m\138696\ah_dwd.dgn
 PLOT SCALE = 50.0000' / IN.
 USER NAME = tranit

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ROADWAY PLAN
 U.S. RTE 20
 (GETTY RD. TO WEST UNION RD.)
 SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE 2/13/2007
 DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11&12) RS-11	MCHENRY	21	12
STA. 208+00		TO STA. 238+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

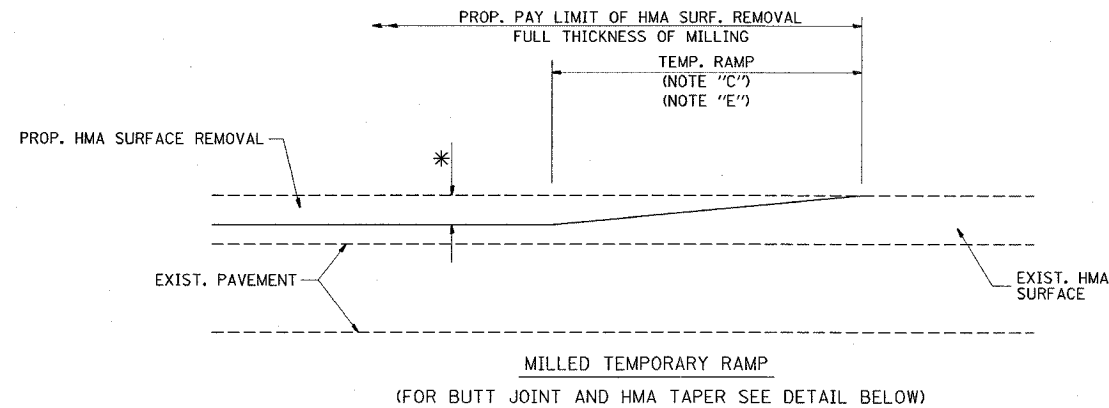


PLOT DATE = 2/13/2007
FILE NAME = c:\pro\pca\138606\sh.dwg
PLOT SCALE = 50.0000' / IN.
USER NAME = trent

REVISIONS	
NAME	DATE

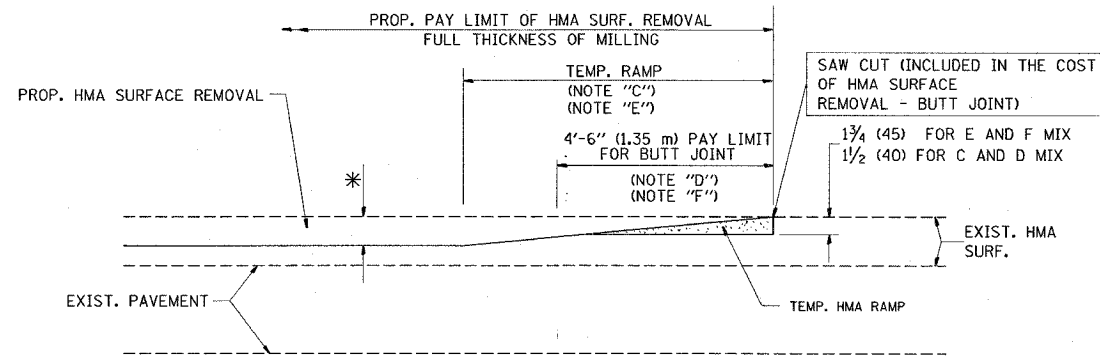
ILLINOIS DEPARTMENT OF TRANSPORTATION
ROADWAY PLAN
U.S. RTE 20
(GETTY RD. TO WEST UNION RD.)
SCALE: VERT. 1"=50'
HORIZ.
DATE 2/13/2007
DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11#12) RS-11	McHENRY	21	13
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



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

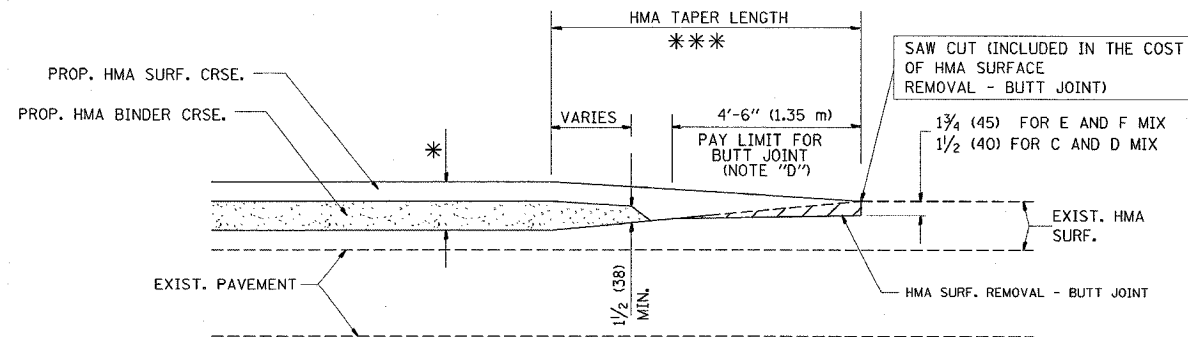
OPTION 1



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

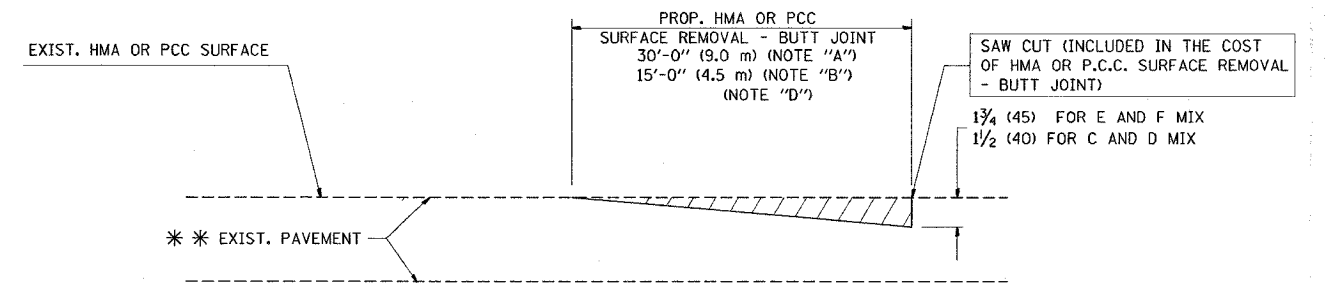
OPTION 2

TYPICAL TEMPORARY RAMP

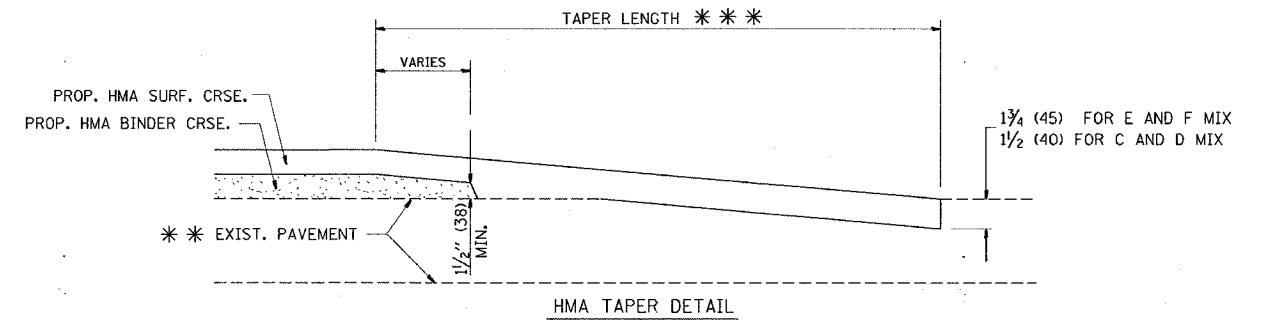


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

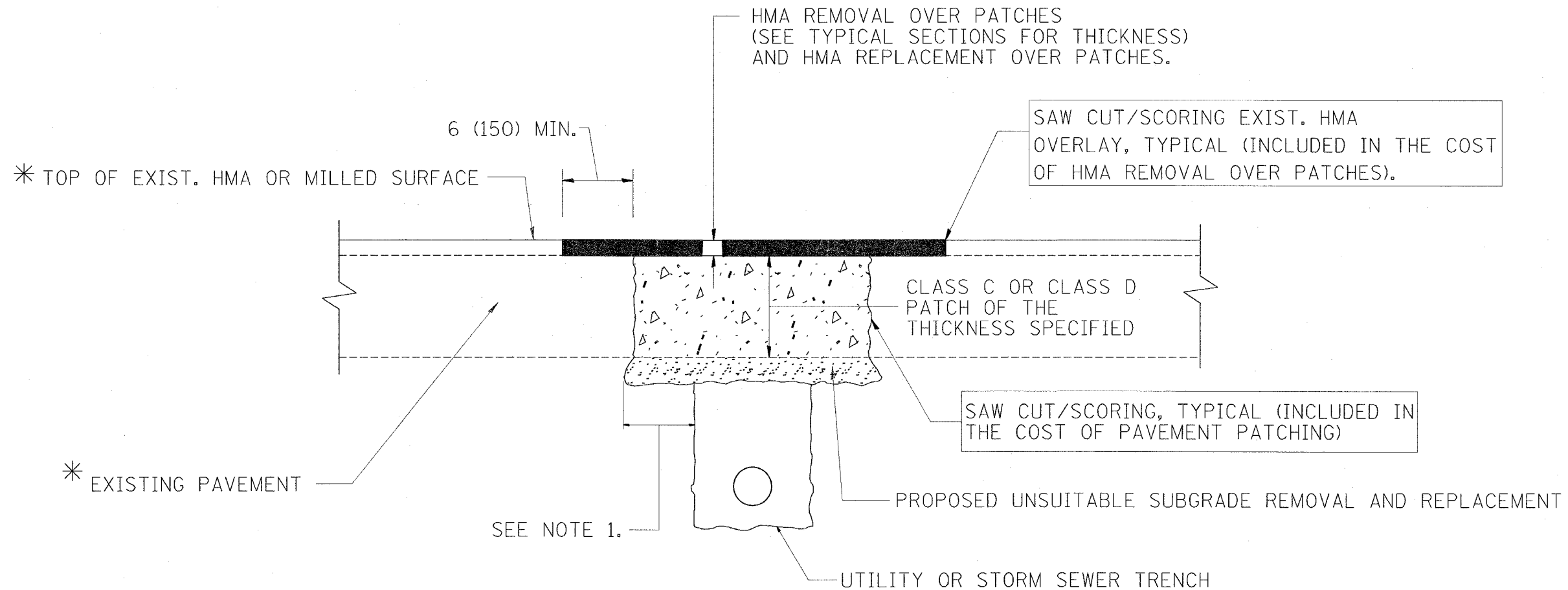
BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE
HORIZ. NONE
PLOT DATE: 2/13/2007

DRAWN BY
CHECKED BY

BD400-05 (VI-BD32)
REVISION DATE: 01/01/07

F.A.P. RTE. 1	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525 (11#12)RS-11	McHENRY		21	14
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

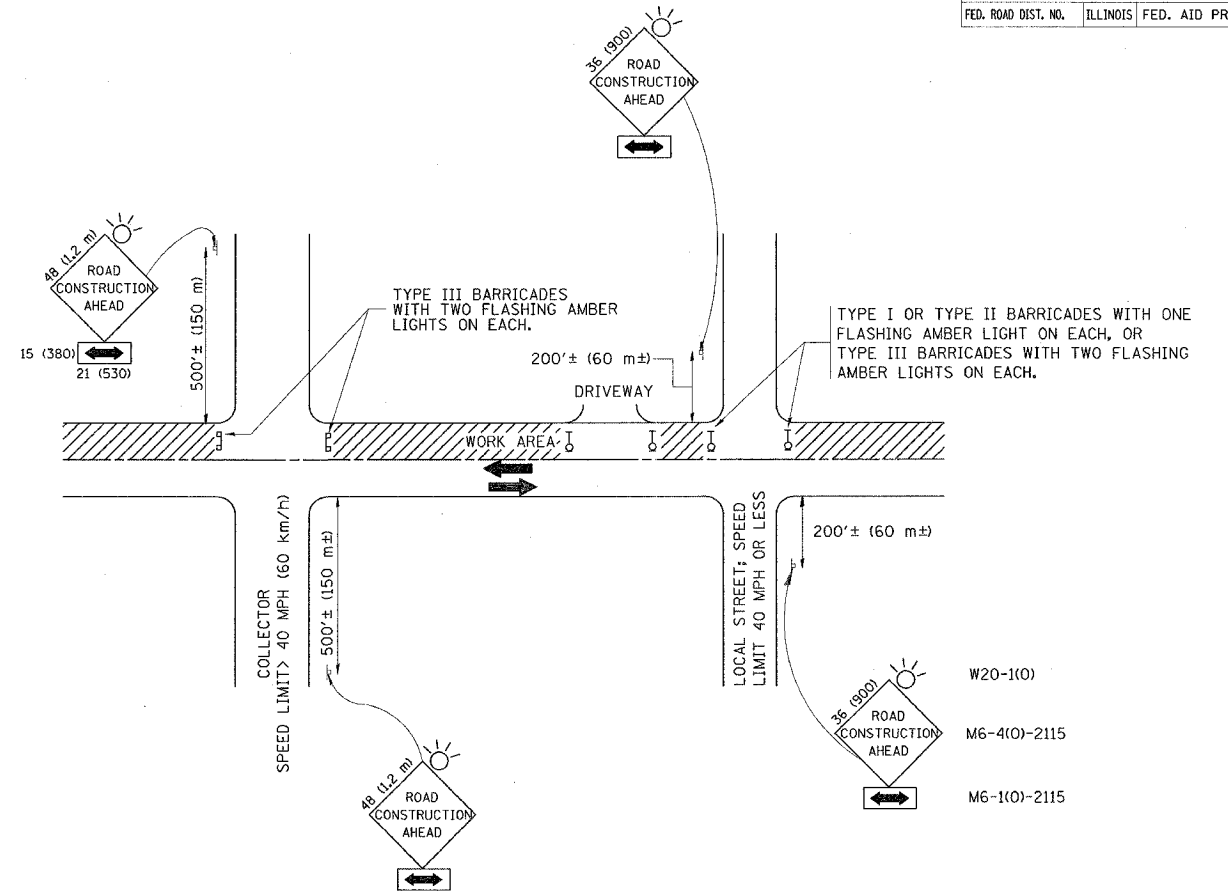
PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

SCALE: VERT. NONE
HORIZ. NONE
PLOT DATE: 2/13/2007

DRAWN BY
CHECKED BY
BD400-04 (BD-22)

REVISION DATE: 01/01/07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11#12)RS-11	McHENRY	21	15
STA.	TO STA.			
FED. ROAD DIST. NO.	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

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 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.

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

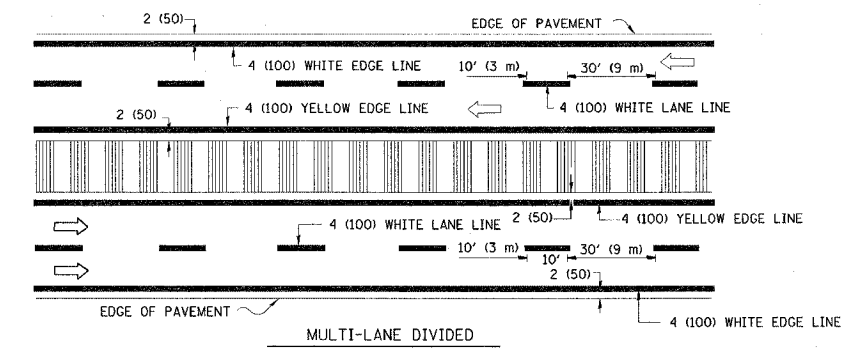
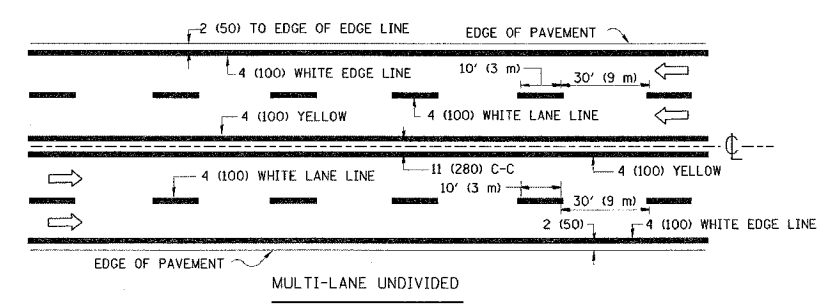
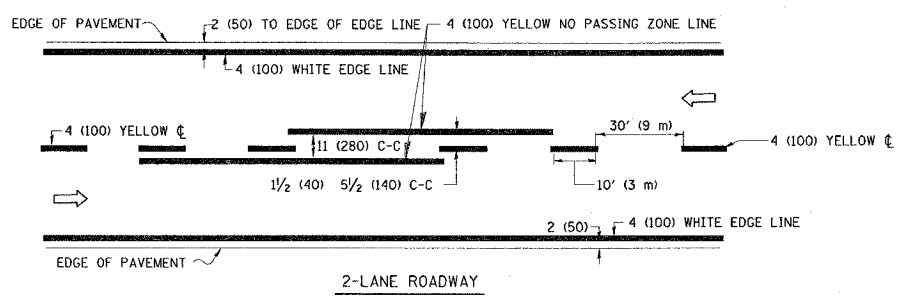
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL AND PROTECTION
 FOR
 SIDE ROADS, INTERSECTIONS, AND
 DRIVEWAYS

SCALE: _____ DRAWN BY _____
 DATE: 2/13/2007 CHECKED BY _____

TC-10
 REVISION DATE: 01/06/00

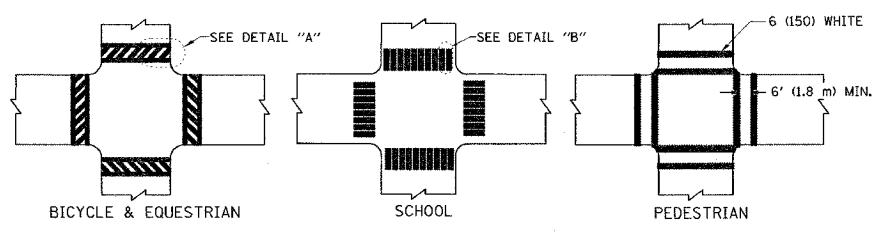
PLOT DATE = 2/13/2007
 PLOT SCALE = 50.000 / IN.
 USER NAME = trent

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525 (11#12)RS-11		MCHENRY	21	16
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

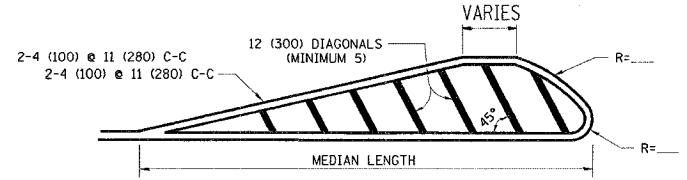
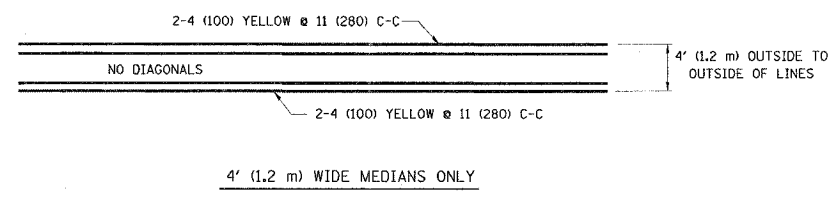


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

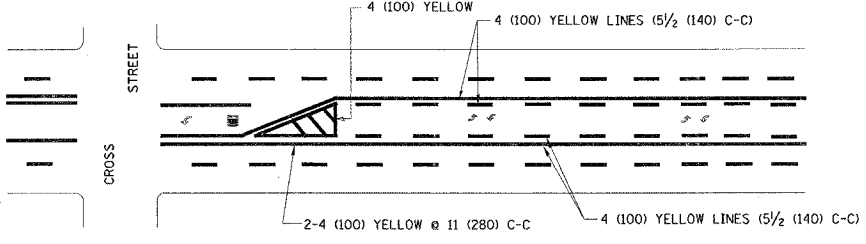


TYPICAL CROSSWALK MARKING

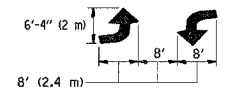


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

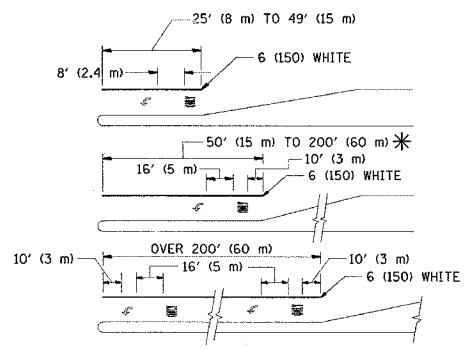


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

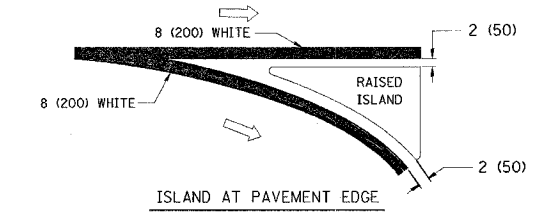
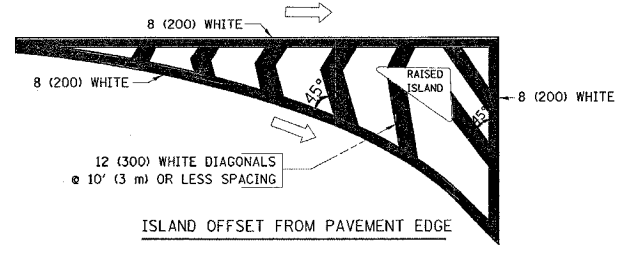


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GOPE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "X"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

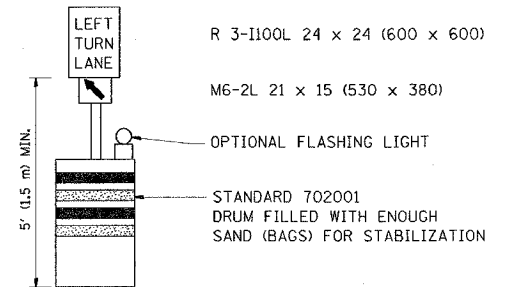
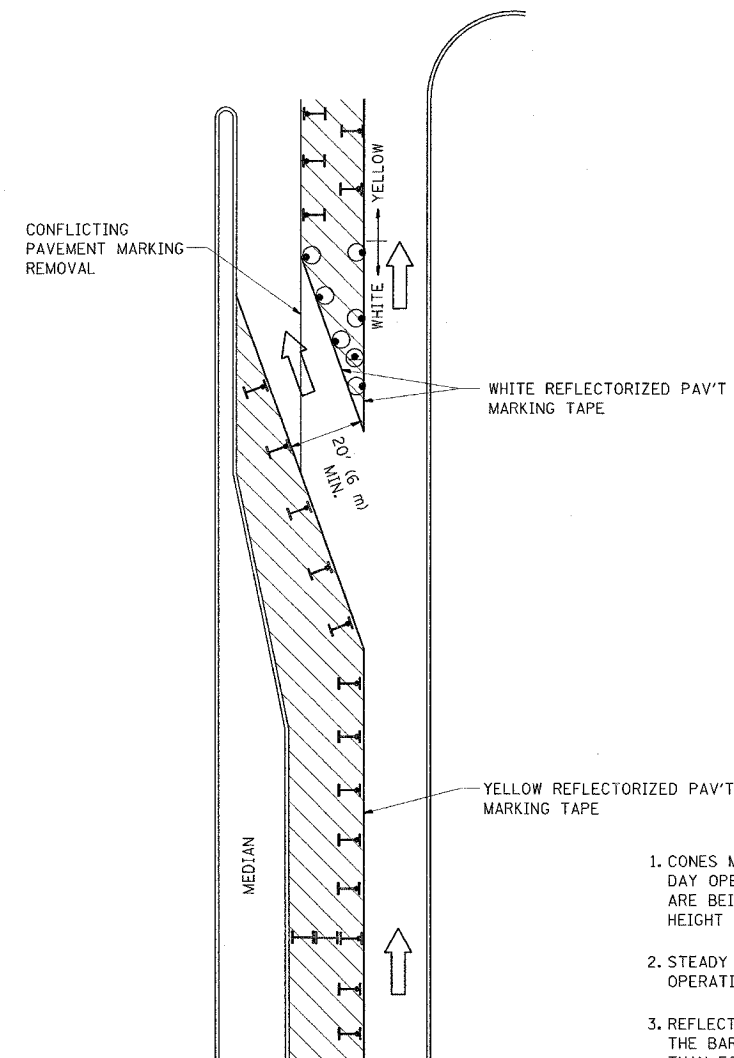
REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE
DATE: 2/13/2007
DRAWN BY CADD
CHECKED BY
TC-13

PLOT DATE = 2/13/2007
PLOT SCALE = 1/8" = 1'-0"
USER NAME = tbrant

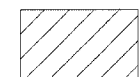





F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525 (11#12) RS-II	MCHEMRY	21	17
STA. TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



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 BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

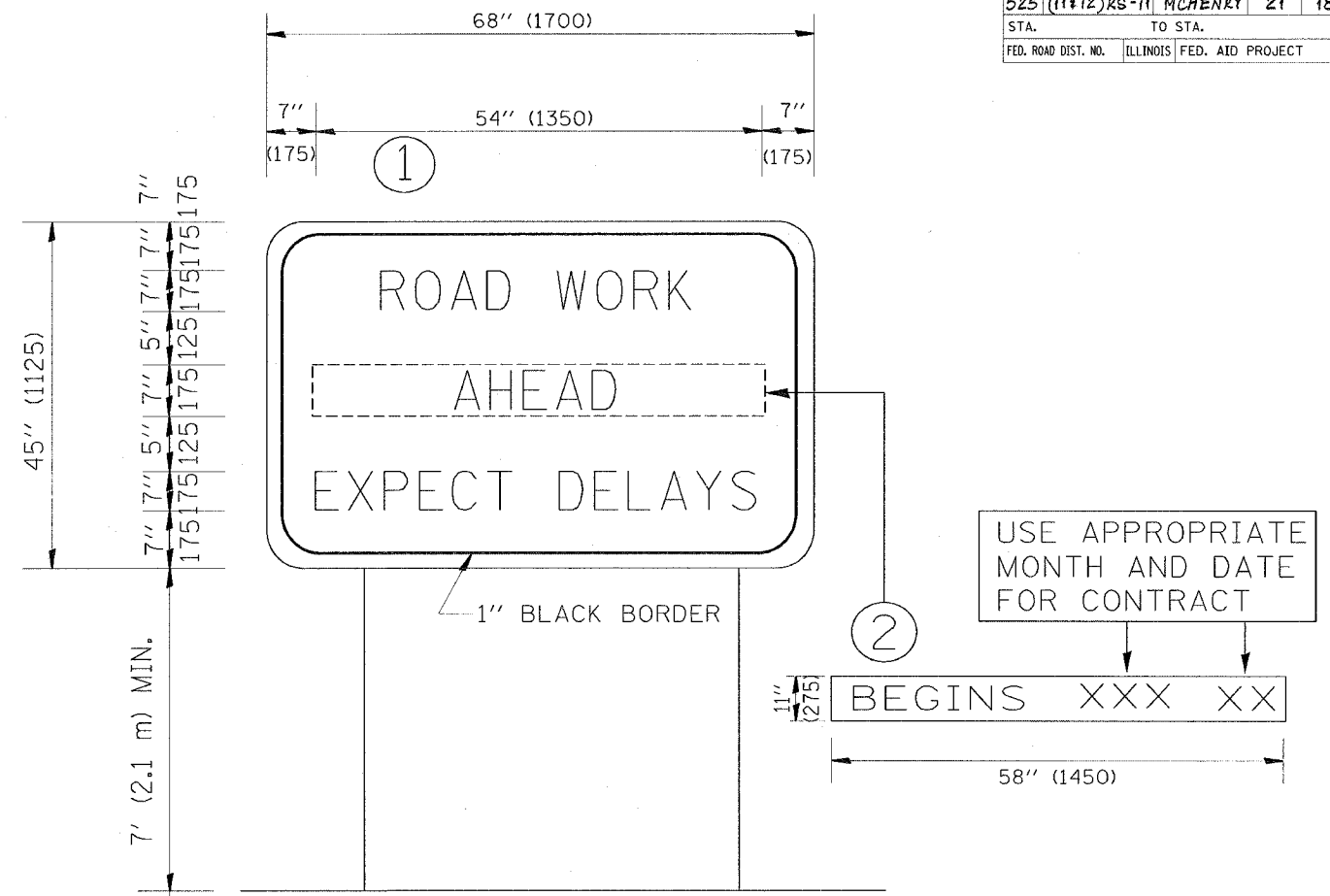
ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL AND PROTECTION
 AT TURN BAYS
 (TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE
 DATE: 2/13/2007

DRAWN BY
 CHECKED BY LHA

TC-14
 REVISION DATE: 01/06/00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11#12)RS-11	MCHEMERY	21	18
STA.		TO STA.		
FED. ROAD DIST. NO.		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.)

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99

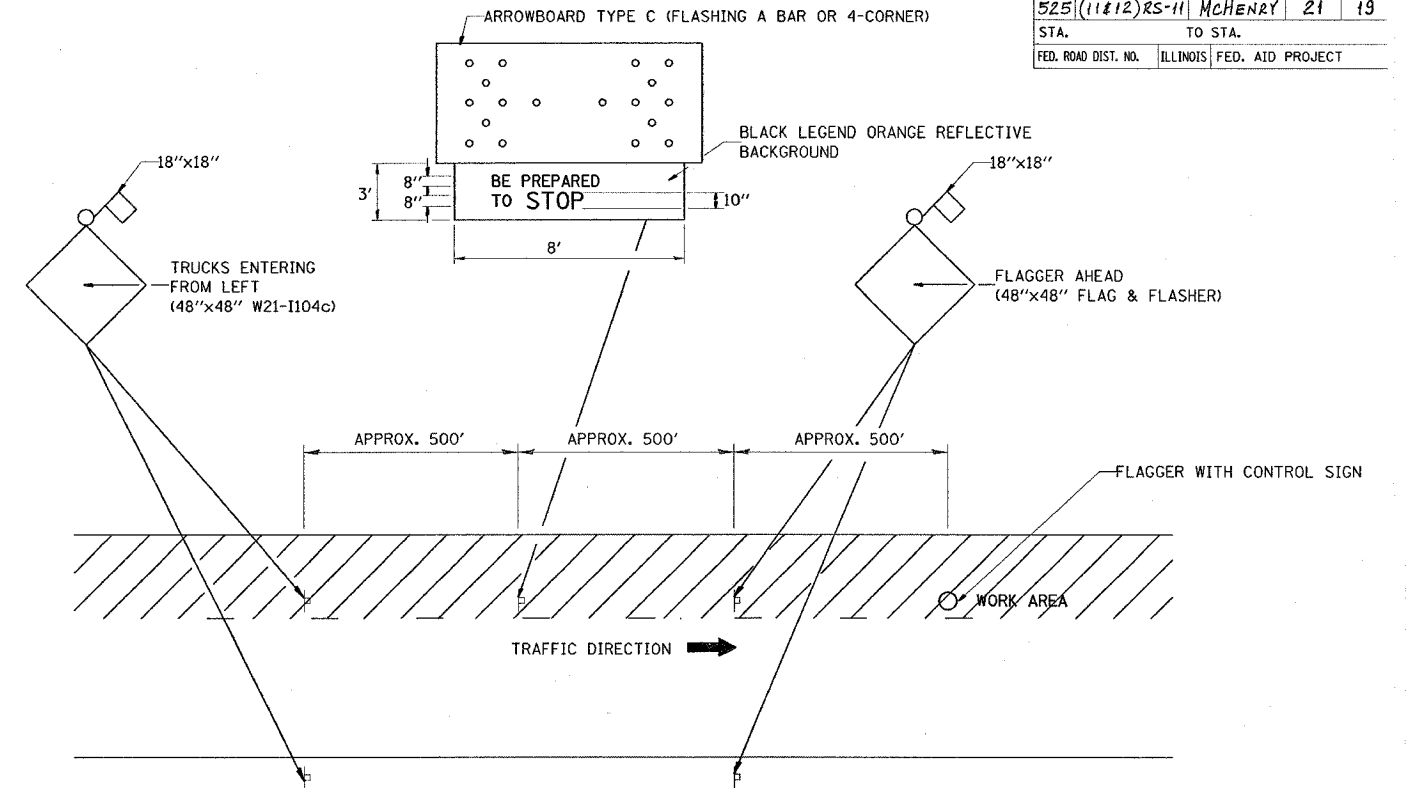
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMPORARY INFORMATION SIGNING

SCALE:
 DATE: 2/13/2007

DRAWN BY DESIGN
 CHECKED BY

TC22
 REVISION DATE: 02/02/99

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11#12)RS-11	MCHENRY	21	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



METHOD OF FLAGGING

NOTE:

- SIGNS SHALL BE MOUNTED AT A MINIMUM CLEARANCE HEIGHT OF 5 FEET
- ALL SIGNS SHALL BE REMOVED WHEN THE FLAGGING OPERATION CEASES.
- THIS CASE ALSO APPLIES WHEN THE WORK ZONE IS ON THE RIGHT. UNDER THESE CONDITIONS "TRUCKS ENTERING FROM RIGHT" SIGNS SHALL BE SUBSTITUTED FOR "TRUCKS ENTERING FROM LEFT" SIGNS. ALSO THE ARROWBOARD AND "BE PREPARED TO STOP" SIGNS SHALL BE RELOCATED TO THE RIGHT SIDE OF THE ROAD.
- WORK ZONE ACCESS POINTS SHOULD BE A MINIMUM OF ONE HALF MILE APART. MEDIAN WORK ZONE ACCESS POINTS SHOULD NOT BE LOCATED OPPOSITE OF EACH OTHER.
- NIGHTTIME FLAGGING OPERATIONS: THE FLAG STATION SHALL BE LIGHTED WITH ADDITIONAL LIGHTS OTHER THAN STREET LIGHTS. THE FLAGGER CONTROL SIGN AND THE FLAGGER'S VEST SHALL BE REFLECTORIZED. IN ADDITION, THE FLAGGER SHALL HAVE A FLASHLIGHT OR LIGHTED WAND.

PLOT DATE = 2/13/2007
 PLOT SCALE = 481183.2335 1/1 IN.
 USER NAME = trent

REVISIONS	
NAME	DATE
RAY RITCHIE	5/10/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

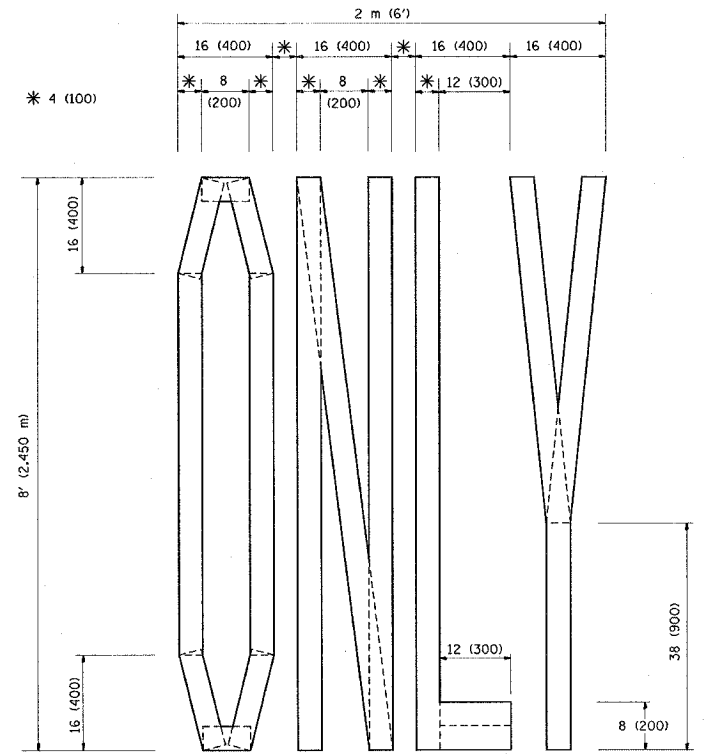
METHOD OF FLAGGING

SCALE: NOT TO SCALE
 DATE: 2/13/2007

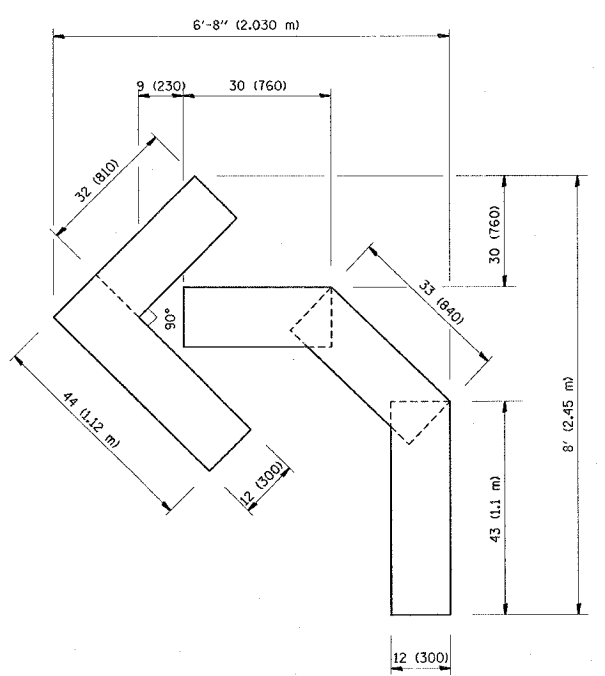
DRAWN BY C.A.D.
 CHECKED BY

BM-14
 REVISION DATE: 05/10/00

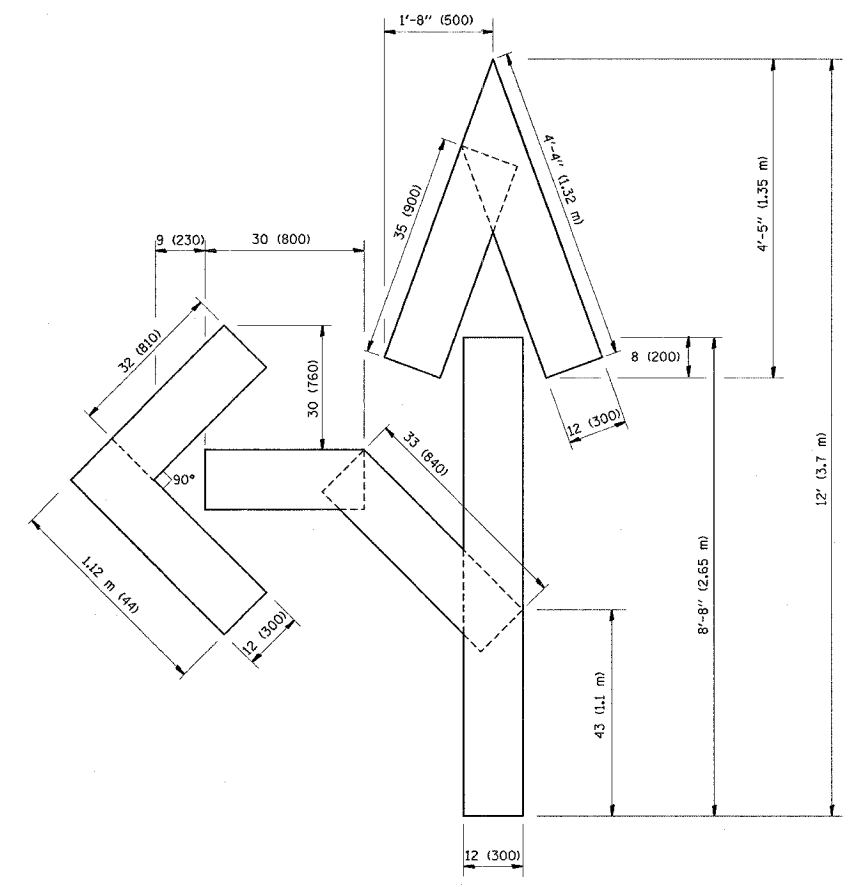
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	(11#12) RS-11	MCHEMRY	21	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/98
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
 LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

SCALE: NONE
 DATE: 2/13/2007

DRAWN BY CADD
 CHECKED BY

TC-16

REVISION DATE: 08/28/00

PLOT DATE = 2/13/2007
 FILE NAME = m:\data\60b64.dgn
 PLOT SCALE = 40,0000 / IN.
 USER NAME = cadd

