

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	541 RS-2	COOK	29	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60G77		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 307 (IL RTE. 64 - NORTH AVE.)
DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)
SECTION: 541 RS-2
RESURFACING IMPROVEMENT
COOK COUNTY
C-91-533-09

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN THE CITIES AND VILLAGES OF :

NORTHLAKE	ELMWOOD PARK
MELROSE PARK	RIVER FOREST
STONE PARK	OAK PARK
RIVER GROVE	

TRAFFIC DATA

IL RTE. 64 (F.A.I. - 290 TO THATCHER AVE.)
ADT (2006) = 52,900 VEHICLES

IL RTE. 64 (THATCHER AVE. TO IL RTE. 43)
ADT (2006) = 35,000 VEHICLES

SPEED LIMIT

IL RTE. 64 (F.A.I. - 290 TO THATCHER AVE.) = 40 MPH

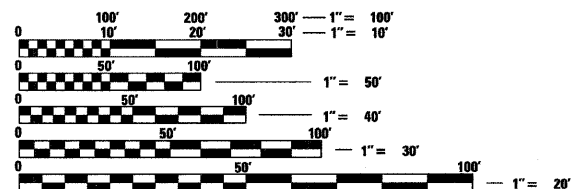
IL RTE. 64 (THATCHER AVE. TO IL RTE. 43) = 30 MPH

STATION EQUATIONS

STA. 274+41 BACK = STA. 77+69 AHEAD
STA. 118+00 BACK = STA. 119+64 AHEAD
STA. 141+16 BACK = STA. 139+16 AHEAD

PROJECT BEGINS
STA. 52+00

PROJECT ENDS
STA. 164+60



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

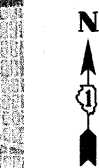
benesch
alfred benesch & company
Engineers • Surveyors • Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450

CONTRACT NO. 60G77



TOWNSHIP OF PROVISO-RIVER FOREST

GROSS LENGTH OF IMPROVEMENT = 30,968 FEET OR 5.865 MILES
NET LENGTH OF IMPROVEMENT = 29,088 FEET OR 5.509 MILES



T 40 N
T 39 N

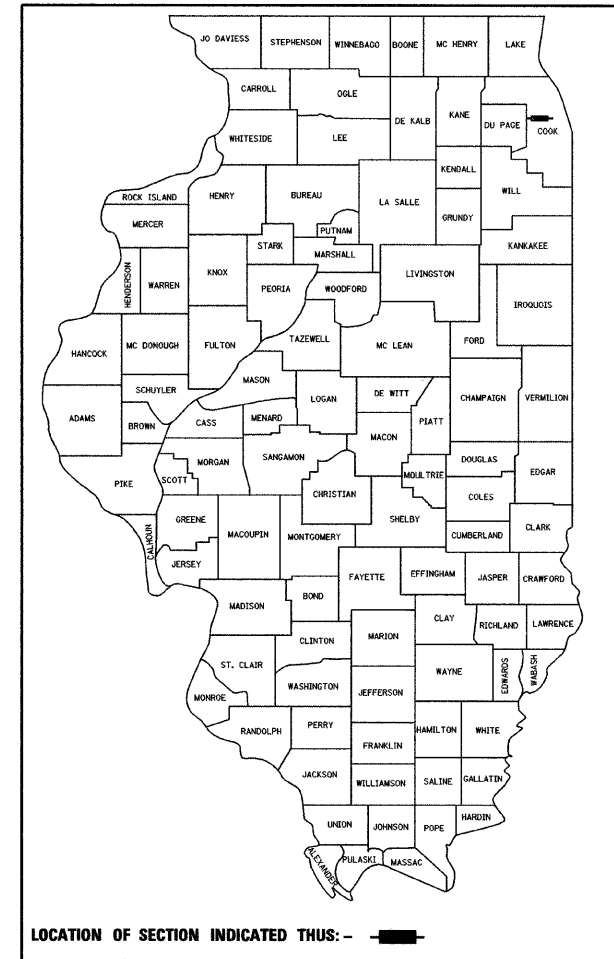
EXPIRATION DATE 11-30-09
DATE 4-16-09



OMISSION

STA. 130+40 TO STA. 135+25
STA. 79+85 TO STA. 93+80

D-91-533-09



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED APRIL 16, 2009
Diana M. O'Hea DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
May 1, 2009
Charles J. Ingersoll ENGINEER OF DESIGN AND ENVIRONMENT
May 1, 2009
Christine M. Reed DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

CONSULTANT PROJECT ENGINEER: ISSAM RAYYAN (847) 705-4556

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	EXISTING AND PROPOSED TYPICAL SECTIONS
5 - 16	ROADWAY AND PAVEMENT MARKING PLANS
17	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
18	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
19	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
20	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
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22	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS, (TC-10)
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27	ARTERIAL ROAD INFORMATION SIGN (TC-22)
28	DRIVEWAY ENTRANCE SIGNING (TC-26)
29	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATION AND PATTERNS
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
604001-03	FRAME AND LIDS TYPE 1
604086-02	FRAME AND GRATE TYPE 23
604091-02	FRAME AND GRATE TYPE 24
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701601-04	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-04	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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).
- 10 FEET TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS & GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITIES AND VILLAGES OF NORTHLAKE, MELROSE PARK, STONE PARK, RIVER GROVE, ELMWOOD PARK, RIVER FOREST, OAK PARK AND CHICAGO.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT). IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE RESIDENT ENGINEER SHALL CONTACT CORY JUCIUS, TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER AT (773) 685-4342 AT LEAST (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- ALL PAVEMENT MARKING SHALL BE PLACED THROUGHOUT THE PROJECT ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING.
- ALL HMA PAVEMENT PATCHING SHALL BE CLASS D.
- ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), ALL EXISTING PAVEMENT MARKING LINES IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- DRAINAGE ADJUSTMENT, CLEANING OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. STATIONS ARE SHOWN FOR REFERENCE ONLY AND APPROXIMATE.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
- THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- UNLESS OTHER CONDITIONS WARRANT, EXTENDED LANE CLOSURES SHALL BE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS. OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS.
- TEMPORARY RAMPS AT BUTT JOINTS SHALL BE INCLUDED IN THE COST OF THE BUTT JOINT AS SHOWN ON THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET.
- MATCH EXISTING PAVEMENT MARKINGS AT THE PROJECT AND OMISSION LIMITS.
- PAY ITEM 55039700 - STORM SEWERS TO BE CLEANED - SHALL ONLY BE UTILIZED TO CLEAN STORM SEWER LATERAL PIPES BETWEEN INLETS OR CATCH BASINS AND MAIN SEWERS.
- NORTH AVENUE BRIDGE PAVEMENT OVER THE DES PLAINES RIVER SHALL MATCH THE PROPOSED PAVEMENT AS CALLED OUT ON THE PLANS AND TYPICAL SECTIONS.

FILE NAME = ...General\p1n533091.dgn	USER NAME = gthiesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES ILL 64 (NORTH AVENUE) - DUPAGE CO LINE TO ILL 43 (HARLEM AVENUE)				F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 2
	PLOT SCALE = N.T.S.	CHECKED - JNR	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 60G77
	PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -										

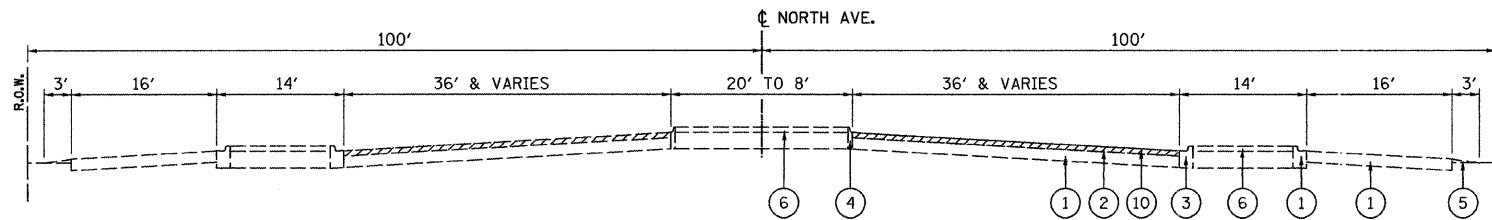
URBAN
100% STATE
1000

SUMMARY OF QUANTITIES			1000	
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE
			URBAN	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	27370	27370
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	36	36
40600895	CONSTRUCTING TEST STRIP	EACH	2	2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	887	887
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	26,823	26,823
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	356	356
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	273,699	273,699
44000600	SIDEWALK REMOVAL	SQ FT	356	356
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	2,374	2,374
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	274	274
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	822	822
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	1,643	1,643
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	2,737	2,737
55039700	STORM SEWERS TO BE CLEANED	FOOT	460	460
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	5	5
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	5	5
60300205	FRAMES AND GRATES TO BE ADJUSTED (SPECIAL)	EACH	54	54
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	155	155
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8
67100100	MOBILIZATION	L SUM	1	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	41,451	41,451
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2,949	2,949
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	82,901	82,901
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	17,236	17,236
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	855	855
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1,584	1,584

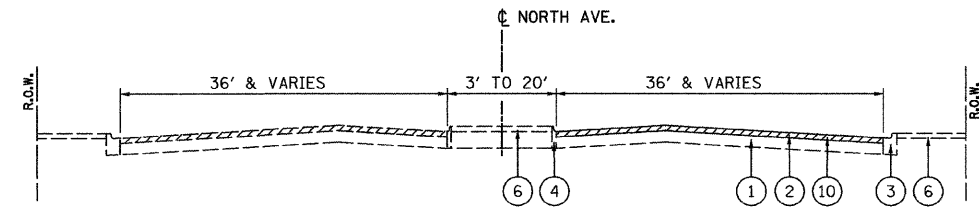
• SPECIALTY ITEM

SUMMARY OF QUANTITIES			1000	
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE
			URBAN	
• 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2,949	2,949
• 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	82,901	82,901
• 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	17,236	17,236
• 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	855	855
• 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1,584	1,584
• 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2,936	2,936
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2,936	2,936
• 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	497	497
• 88600600	DETECTOR LOOP REPLACEMENT	FOOT	12,164	12,164
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	1,079	1,079
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	14,370	14,370
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	15	15
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1

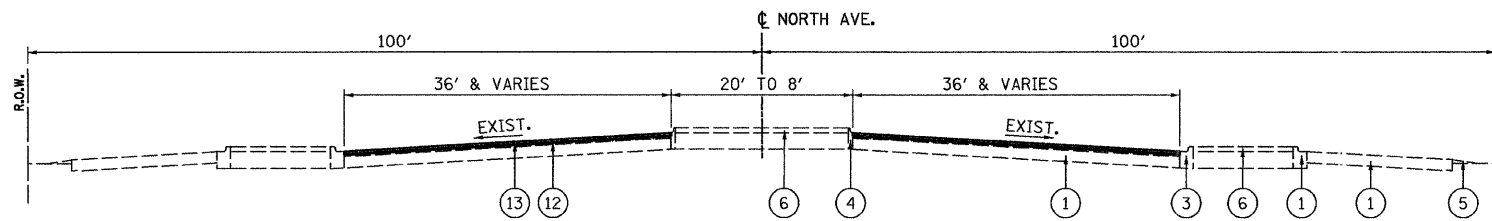
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					ILL 64 (NORTH AVENUE) - DUPAGE CO LINE TO ILL 43 (HARLEM AVENUE)						CONTRACT NO. 60G77	
					SCALE: SHEET NO. OF SHEETS STA. TO STA.							



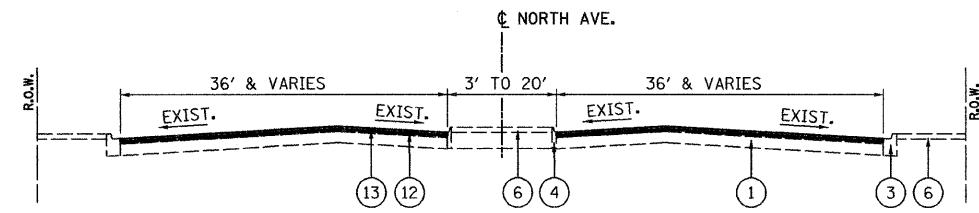
**IL 64 - NORTH AVENUE
EXIST. TYPICAL SECTION**
STA. 52+00.00 TO STA. 152+36.00



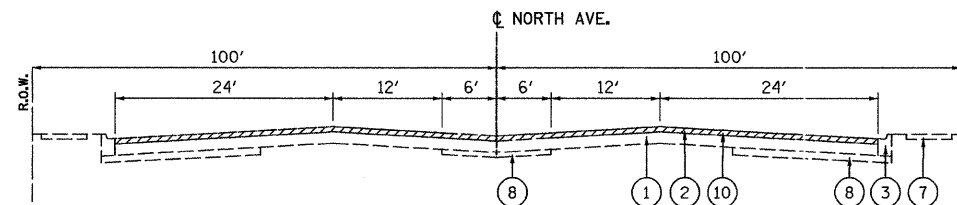
**IL 64 - NORTH AVENUE
EXIST. TYPICAL SECTION**
STA. 152+36.00 TO STA. 88+50.00
(STATION EQUATION: STA. 274+41.00 BACK = STA. 77+69.00 AHEAD)



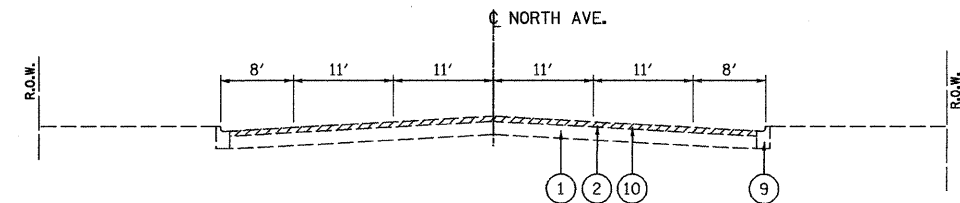
**IL 64 - NORTH AVENUE
PROPOSED TYPICAL SECTION**
STA. 52+00.00 TO STA. 152+36.00



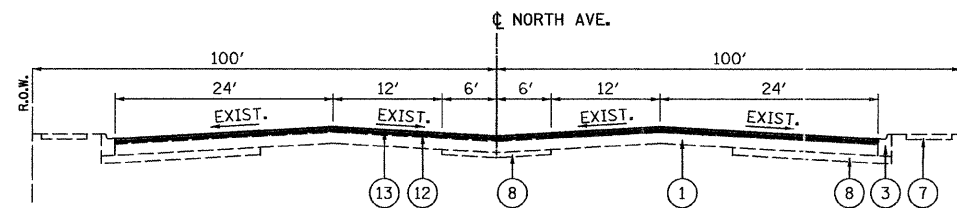
**IL 64 - NORTH AVENUE
EXIST. TYPICAL SECTION**
STA. 152+36.00 TO STA. 88+50.00
(STATION EQUATION: STA. 274+41.00 BACK = STA. 77+69.00 AHEAD)



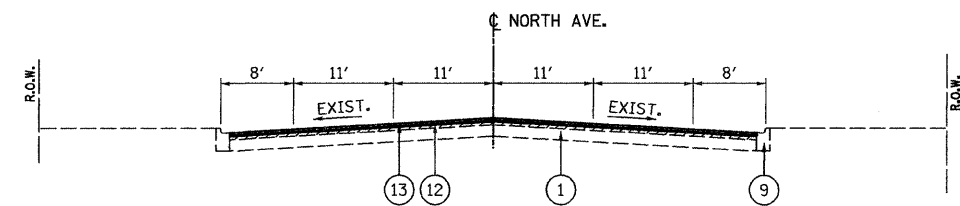
**IL 64 - NORTH AVENUE
EXIST. TYPICAL SECTION**
STA. 88+50.00 TO STA. 119+96.00
(STATION EQUATION: 118+00.00 BACK = STA. 119+64.00 AHEAD)



**US 64 - NORTH AVENUE
EXIST. TYPICAL SECTIONS**
STA. 119+96.00 TO STA. 164+60.00
(STATION EQUATION: STA. 141+16.00 BACK = STA. 139+16.00 AHEAD)



**IL 64 - NORTH AVENUE
PROPOSED TYPICAL SECTION**
STA. 88+50.00 TO STA. 119+96.00
(STATION EQUATION: 118+00.00 BACK = STA. 119+64.00 AHEAD)



**US 64 - NORTH AVENUE
PROPOSED TYPICAL SECTION**
STA. 119+96.00 TO STA. 164+60.00
(STATION EQUATION: STA. 141+16.00 BACK = STA. 139+16.00 AHEAD)

LEGEND

- ① EXISTING P.C.C. PAVEMENT
- ② EXISTING BITUMINOUS PAVEMENT
- ③ EXISTING COMB. CONC. CURB AND GUTTER TYPE B-6.24
- ④ EXISTING CURB TYPE B
- ⑤ EXISTING GRAVEL SHOULDERS
- ⑥ EXISTING TOP SOIL & GRASS
- ⑦ EXISTING P.C.C. SIDEWALK
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL
- ⑨ EXISTING COMB. CONC. CURB AND GUTTER TYPE B-6.12
- ⑩ HOT MIX ASPHALT SURFACE REMOVAL, 2-1/2"
- ⑪ NOT USED
- ⑫ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑬ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1-3/4"

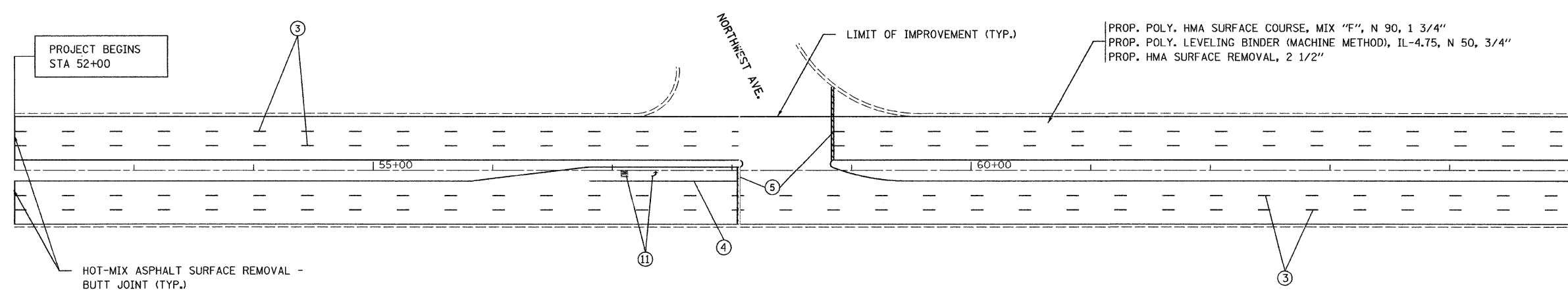
NOTES:

1. THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.
2. THE UNIT WEIGHT USED TO CALCULATE ALL HOT MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN.
3. WHEN RAP EXCEEDS 20% THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.
4. CROSS-SECTION SLOPE SHOULD BE PAVED TO MATCH EXISTING OR AS DIRECTED BY THE ENGINEER.
5. CONCRETE CURB AND GUTTER TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.

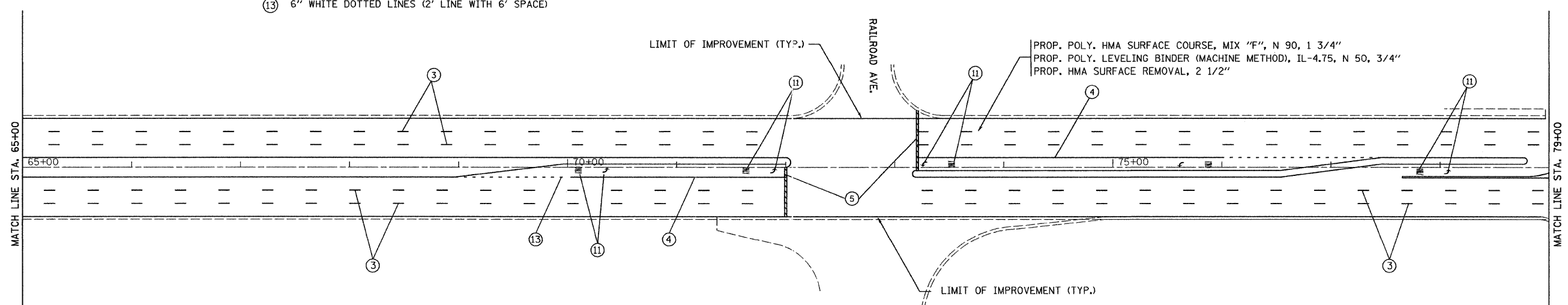
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AC TYPE	AIR VOIDS
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	SBS/SBR PG 70-22	4% @ 90 GYR
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	SBS/SBR PG 76-28/-22	4% @ 50 GYR

FILE NAME = ...xsec53309ts.dgn	USER NAME = gthessae	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS ILL 64 (NORTH AVENUE) - DUPAGE CO LINE TO ILL 43 (HARLEM AVENUE)			F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 4
PLOT SCALE = N.T.S.		CHECKED - JNR	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60G77				
PLOT DATE = 4/17/2009		DATE - 4/16/2009	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

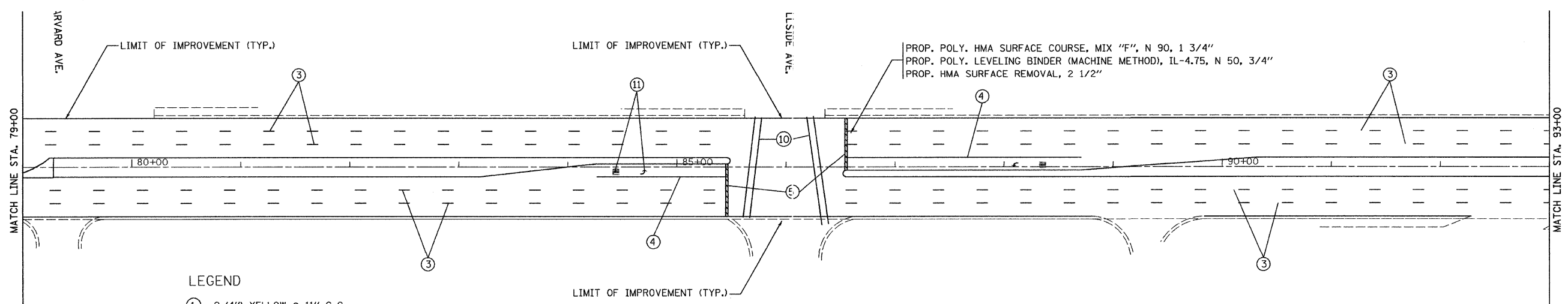


- LEGEND**
- ① 2-(4") YELLOW @ 11" C-C
 - ② (4") YELLOW EDGE LINE
 - ③ (4") WHITE LANE LINE 10' DASH 30' SKIP
 - ④ (6") WHITE TURN LANE
 - ⑤ (24") STOP LINES
 - ⑥ (8") WHITE LINE
 - ⑦ (12") YELLOW DIAGONALS
 - ⑧ (12") WHITE DIAGONALS
 - ⑨ (4") WHITE LINE
 - ⑩ (6") WHITE CROSSWALK LINE (PEDESTRIAN)
 - ⑪ LETTERS AND SYMBOLS
 - ⑫ (12") WHITE CROSSWALK LINE (SCHOOL)
 - ⑬ 6" WHITE DOTTED LINES (2' LINE WITH 6' SPACE)

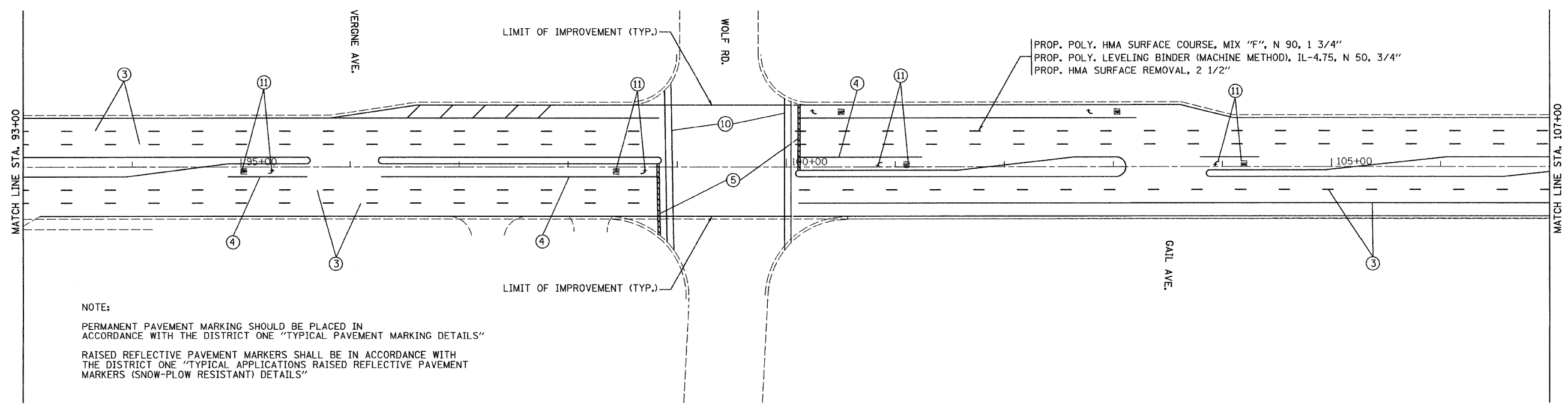


NOTE:
 PERMANENT PAVEMENT MARKING SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS"
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-FLOW RESISTANT) DETAILS"

FILE NAME = ...\\p1ans\p1n5338\pp&mk01.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL RTE. 64 (NORTH AVE.) DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)			F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 5
	PLOT SCALE = 1" = 50'	CHECKED - JNR	REVISED -		SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. 52+00 TO STA. 79+00	CONTRACT NO. 60G77				
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



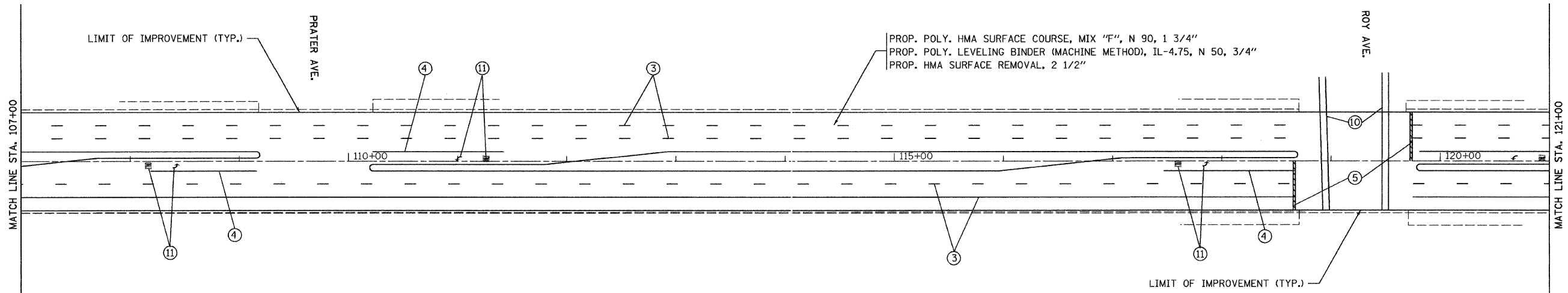
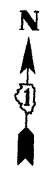
- LEGEND**
- ① 2-(4") YELLOW @ 11" C-C
 - ② (4") YELLOW EDGE LINE
 - ③ (4") WHITE LANE LINE 10' DASH 30' SKIP
 - ④ (6") WHITE TURN LANE
 - ⑤ (24") STOP LINES
 - ⑥ (8") WHITE LINE
 - ⑦ (12") YELLOW DIAGONALS
 - ⑧ (12") WHITE DIAGONALS
 - ⑨ (4") WHITE LINE
 - ⑩ (6") WHITE CROSSWALK LINE (PEDESTRIAN)
 - ⑪ LETTERS AND SYMBOLS
 - ⑫ (12") WHITE CROSSWALK LINE (SCHOOL)
 - ⑬ 6" WHITE DOTTED LINES (2' LINE WITH 6' SPACE)



NOTE:
 PERMANENT PAVEMENT MARKING SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS"
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) DETAILS"

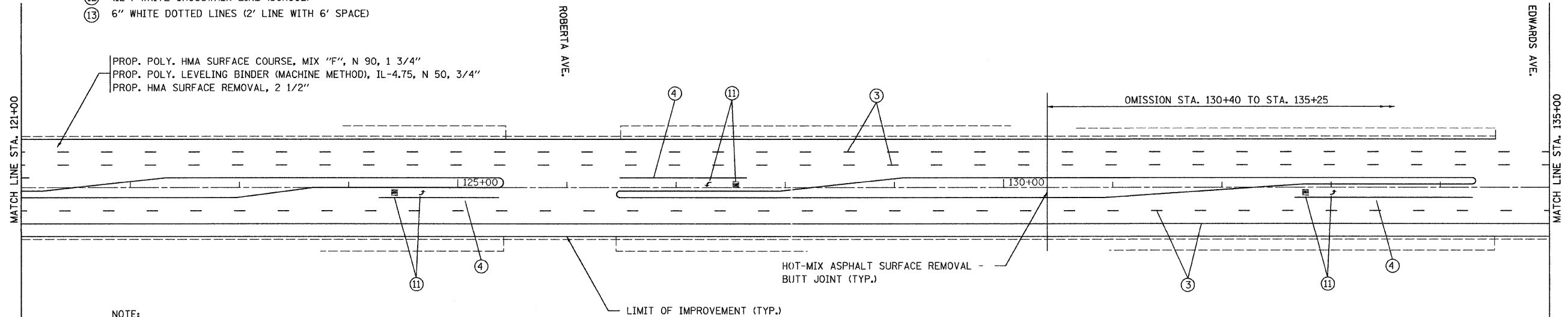


FILE NAME = ...P1ans\p1n53309pp&mrk02.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL RTE. 64 (NORTH AVE.) DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)				F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 6
	PLOT SCALE = 1" = 50'	DRAWN - IS	REVISED -		SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. 79+00	TO STA. 107+00	CONTRACT NO. 60G77				
	PLOT DATE = 4/17/2009	CHECKED - JNR	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT								
		DATE - 4/16/2009	REVISED -										



LEGEND

- ① 2-(4") YELLOW @ 11" C-C
- ② (4") YELLOW EDGE LINE
- ③ (4") WHITE LANE LINE 10' DASH 30' SKIP
- ④ (6") WHITE TURN LANE
- ⑤ (24") STOP LINES
- ⑥ (8") WHITE LINE
- ⑦ (12") YELLOW DIAGONALS
- ⑧ (12") WHITE DIAGONALS
- ⑨ (4") WHITE LINE
- ⑩ (6") WHITE CROSSWALK LINE (PEDESTRIAN)
- ⑪ LETTERS AND SYMBOLS
- ⑫ (12") WHITE CROSSWALK LINE (SCHOOL)
- ⑬ 6" WHITE DOTTED LINES (2' LINE WITH 6' SPACE)

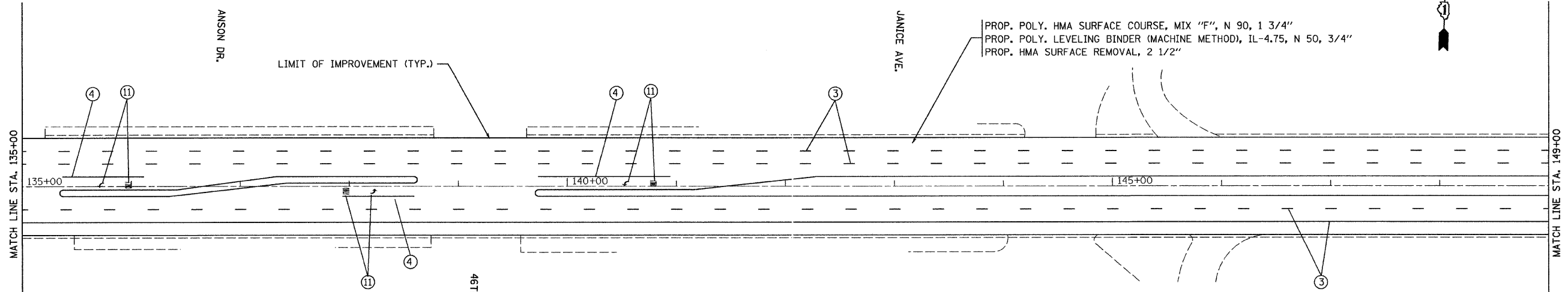


NOTE:

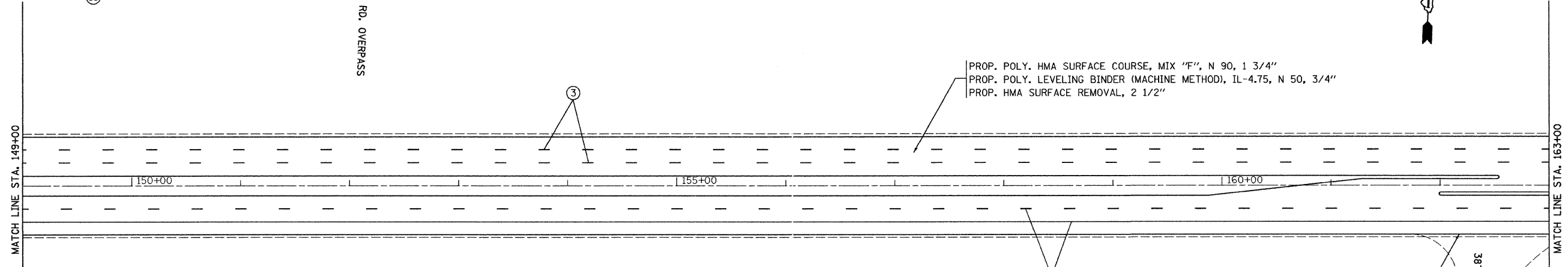
PERMANENT PAVEMENT MARKING SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS"
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) DETAILS"



FILE NAME = ... \Plans\p1n5338\pp&mk03.dgn	USER NAME = gthiesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL RTE. 64 (NORTH AVE.) DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)		F.A.P. RTE. = 307	SECTION = 541 RS-2	COUNTY = COOK	TOTAL SHEETS = 29	SHEET NO. = 7
	PLOT SCALE = 1" = 50'	CHECKED - JNR	REVISED -		SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. 107+00 TO STA. 135+00	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		CONTRACT NO. 60677	
PLOT DATE = 4/17/2009	DATE = 4/16/2009	REVISED -	REVISED -								

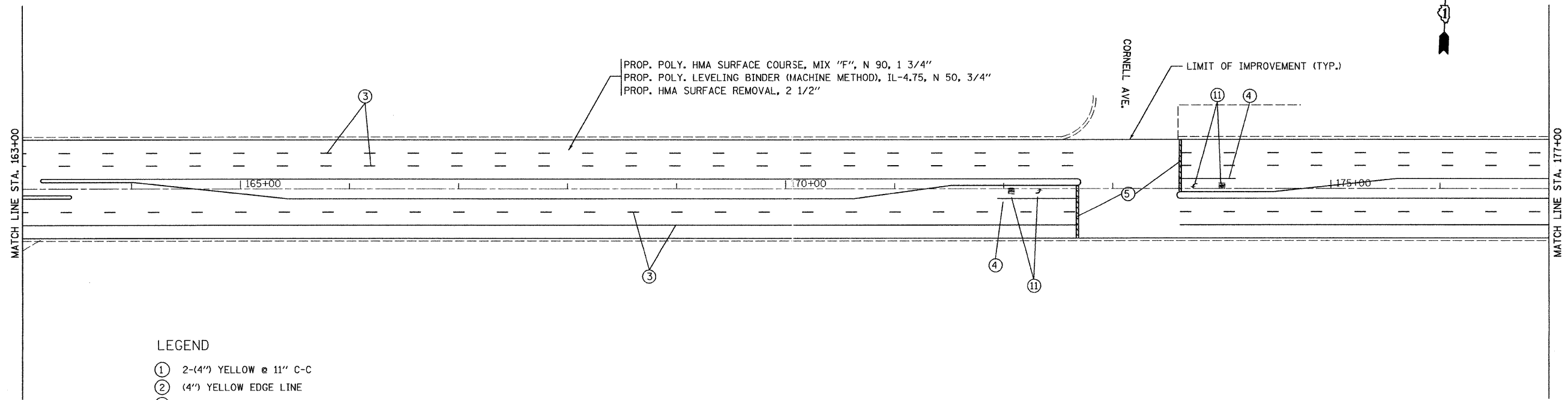


- LEGEND**
- ① 2-(4") YELLOW @ 11" C-C
 - ② (4") YELLOW EDGE LINE
 - ③ (4") WHITE LANE LINE 10' DASH 30' SKIP
 - ④ (6") WHITE TURN LANE
 - ⑤ (24") STOP LINES
 - ⑥ (8") WHITE LINE
 - ⑦ (12") YELLOW DIAGONALS
 - ⑧ (12") WHITE DIAGONALS
 - ⑨ (4") WHITE LINE
 - ⑩ (6") WHITE CROSSWALK LINE (PEDESTRIAN)
 - ⑪ LETTERS AND SYMBOLS
 - ⑫ (12") WHITE CROSSWALK LINE (SCHOOL)
 - ⑬ 6" WHITE DOTTED LINES (2' LINE WITH 6' SPACE)



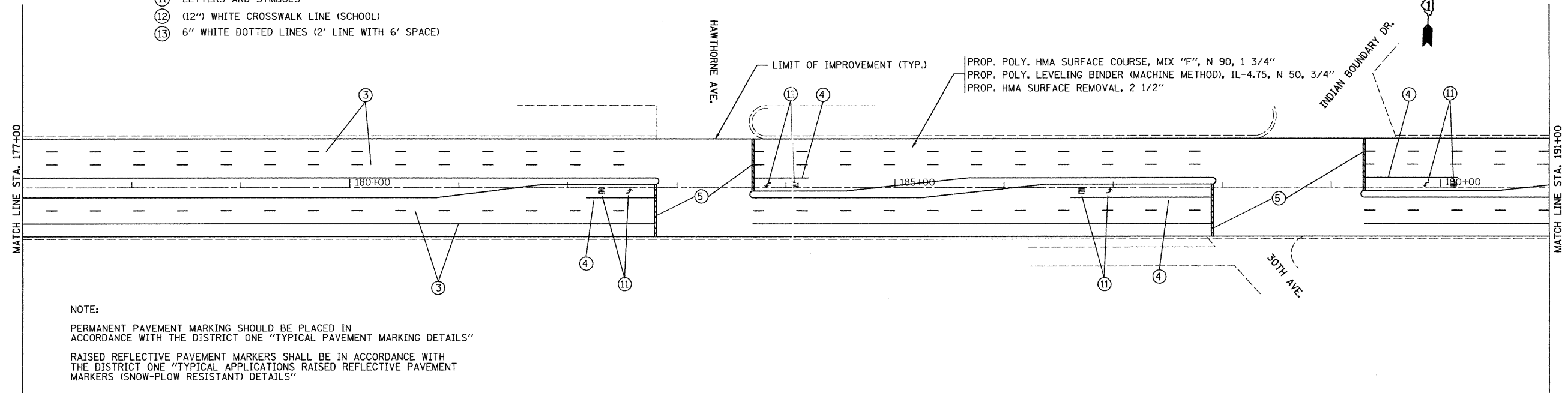
NOTE:
 PERMANENT PAVEMENT MARKING SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS"
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLow RESISTANT) DETAILS"

FILE NAME = ...Vp1one\p1n53389\pp&mk04.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL RTE. 64 (NORTH AVE.) DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)			F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 8
	PLOT SCALE = 1" = 50'	CHECKED - JNR	REVISED -		SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. 135+00 TO STA. 163+00	CONTRACT NO. 60G77				
	PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							



LEGEND

- ① 2-(4") YELLOW @ 11" C-C
- ② (4") YELLOW EDGE LINE
- ③ (4") WHITE LANE LINE 10' DASH 30' SKIP
- ④ (6") WHITE TURN LANE
- ⑤ (24") STOP LINES
- ⑥ (8") WHITE LINE
- ⑦ (12") YELLOW DIAGONALS
- ⑧ (12") WHITE DIAGONALS
- ⑨ (4") WHITE LINE
- ⑩ (6") WHITE CROSSWALK LINE (PEDESTRIAN)
- ⑪ LETTERS AND SYMBOLS
- ⑫ (12") WHITE CROSSWALK LINE (SCHOOL)
- ⑬ 6" WHITE DOTTED LINES (2' LINE WITH 6' SPACE)



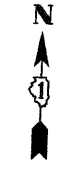
NOTE:

PERMANENT PAVEMENT MARKING SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS"
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) DETAILS"

FILE NAME = ...P1ans\p1n53389pp&mk05.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL RTE. 64 (NORTH AVE.) DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)			F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 9
	PLOT SCALE = 1" = 50'	CHECKED - JNR	REVISED -		SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. 163+00 TO STA. 191+00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -	REVISED -	CONTRACT NO. 60G77								

MATCH LINE STA. 191+00

MATCH LINE STA. 205+00



PROP. POLY. HMA SURFACE COURSE, MIX "F", N 90, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N 50, 3/4"
 PROP. HMA SURFACE REMOVAL, 2 1/2"

LIMIT OF IMPROVEMENT (TYP.)

LEGEND

- ① 2-(4") YELLOW @ 11" C-C
- ② (4") YELLOW EDGE LINE
- ③ (4") WHITE LANE LINE 10' DASH 30' SKIP
- ④ (6") WHITE TURN LANE
- ⑤ (24") STOP LINES
- ⑥ (8") WHITE LINE
- ⑦ (12") YELLOW DIAGONALS
- ⑧ (12") WHITE DIAGONALS
- ⑨ (4") WHITE LINE
- ⑩ (6") WHITE CROSSWALK LINE (PEDESTRIAN)
- ⑪ LETTERS AND SYMBOLS
- ⑫ (12") WHITE CROSSWALK LINE (SCHOOL)
- ⑬ 6" WHITE DOTTED LINES (2' LINE WITH 6' SPACE)

MATCH LINE STA. 205+00

MATCH LINE STA. 219+00

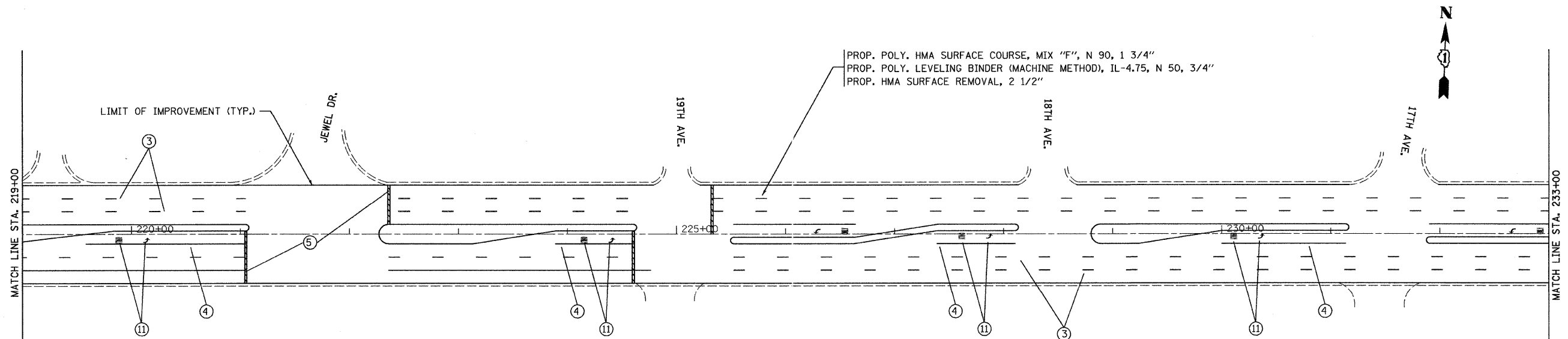


PROP. POLY. HMA SURFACE COURSE, MIX "F", N 90, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N 50, 3/4"
 PROP. HMA SURFACE REMOVAL, 2 1/2"

NOTE:

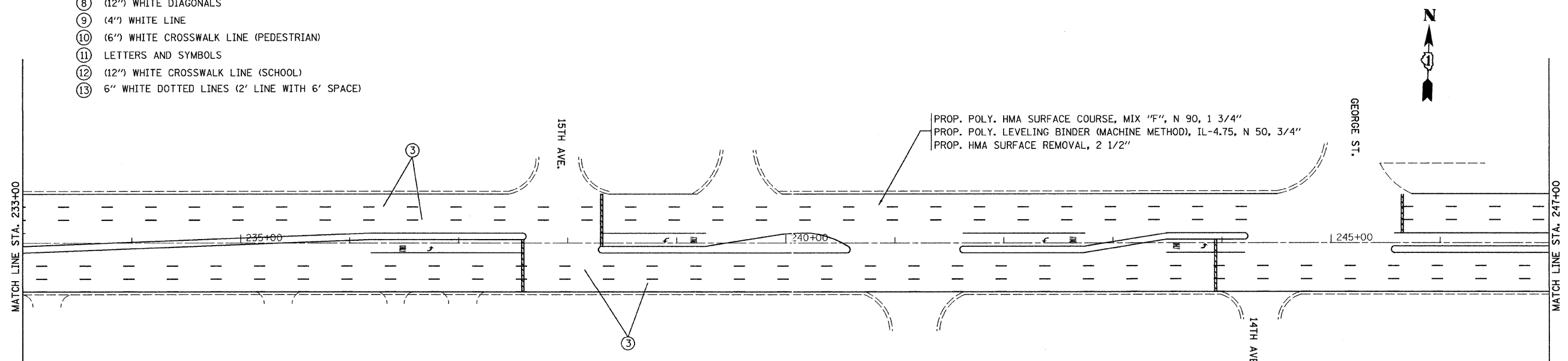
PERMANENT PAVEMENT MARKING SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS"
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) DETAILS"

FILE NAME = ...VPlans\p1n53389pp&mk06.dgn	USER NAME = gthuesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL RTE. 64 (NORTH AVE.) DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)			F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 10	
	PLOT SCALE = 1" = 50'	CHECKED - JNR	REVISED -		SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. 191+00 TO STA. 219+00	CONTRACT NO. 60G77					
	PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT							



LEGEND

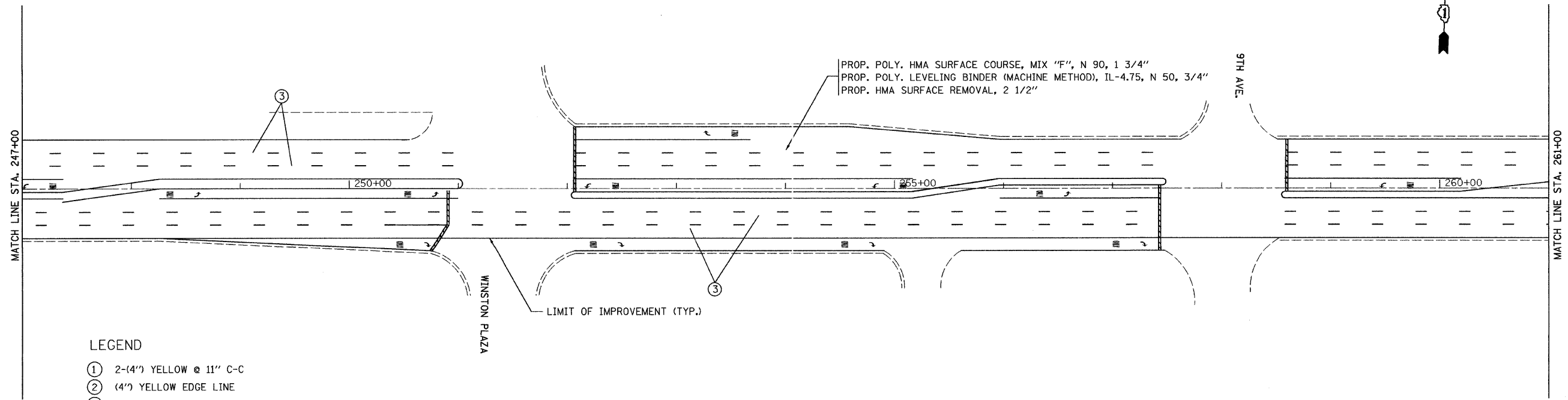
- ① 2-(4") YELLOW @ 11" C-C
- ② (4") YELLOW EDGE LINE
- ③ (4") WHITE LANE LINE 10' DASH 30' SKIP
- ④ (6") WHITE TURN LANE
- ⑤ (24") STOP LINES
- ⑥ (8") WHITE LINE
- ⑦ (12") YELLOW DIAGONALS
- ⑧ (12") WHITE DIAGONALS
- ⑨ (4") WHITE LINE
- ⑩ (6") WHITE CROSSWALK LINE (PEDESTRIAN)
- ⑪ LETTERS AND SYMBOLS
- ⑫ (12") WHITE CROSSWALK LINE (SCHOOL)
- ⑬ 6" WHITE DOTTED LINES (2' LINE WITH 6' SPACE)



NOTE:

PERMANENT PAVEMENT MARKING SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS"
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) DETAILS"

FILE NAME = ...\\plans\p\in5338\pp&mk07.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL RTE. 64 (NORTH AVE.) DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)				F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 11
	PLOT SCALE = 1" = 50'	DRAWN - IS	REVISD -		SCALE: 1" = 50'	SHEET NO.	OF	SHEETS	STA. 219+00	TO STA.	247+00	CONTRACT NO. 60G77	
	PLOT DATE = 4/17/2009	CHECKED - JNR	REVISD -		FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT					
		DATE - 4/16/2009	REVISD -										

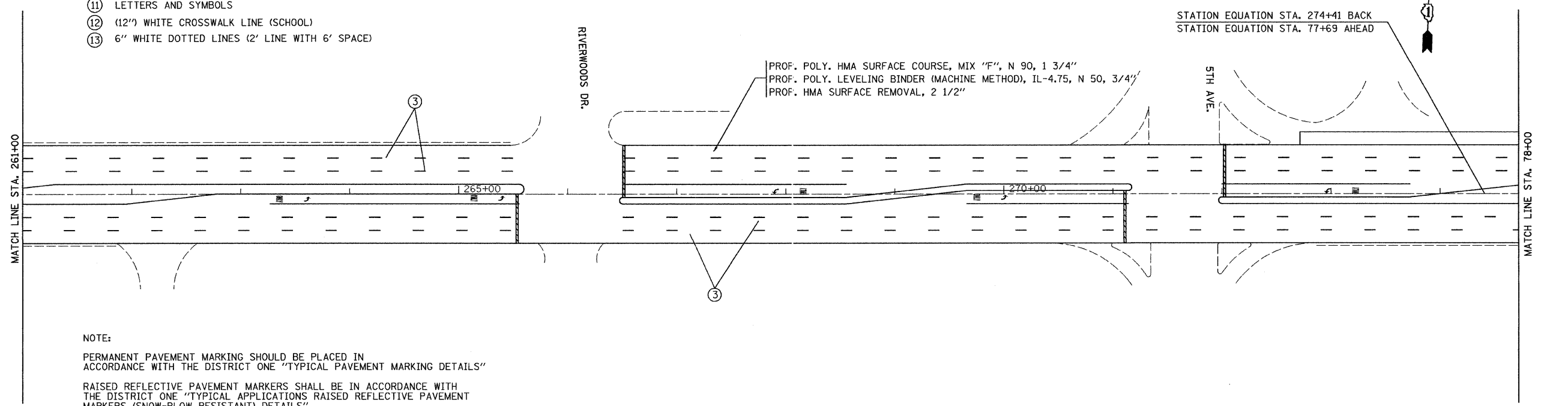


LEGEND

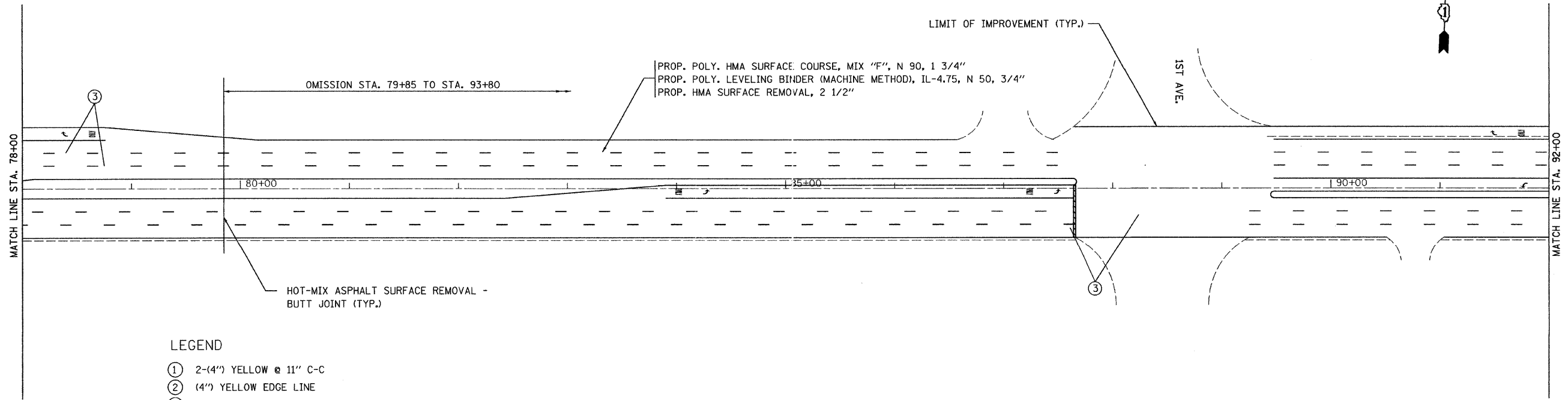
- ① 2-(4") YELLOW @ 11" C-C
- ② (4") YELLOW EDGE LINE
- ③ (4") WHITE LANE LINE 10' DASH 30' SKIP
- ④ (6") WHITE TURN LANE
- ⑤ (24") STOP LINES
- ⑥ (8") WHITE LINE
- ⑦ (12") YELLOW DIAGONALS
- ⑧ (12") WHITE DIAGONALS
- ⑨ (4") WHITE LINE
- ⑩ (6") WHITE CROSSWALK LINE (PEDESTRIAN)
- ⑪ LETTERS AND SYMBOLS
- ⑫ (12") WHITE CROSSWALK LINE (SCHOOL)
- ⑬ 6" WHITE DOTTED LINES (2' LINE WITH 6' SPACE)

NOTE:

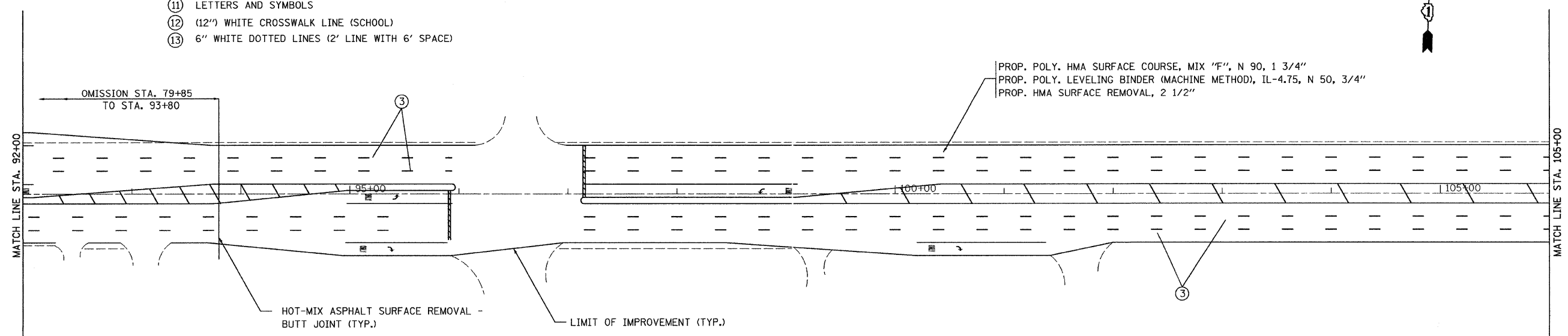
PERMANENT PAVEMENT MARKING SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS"
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) DETAILS"



FILE NAME = ...V1one\p1n5338\pp&mrk08.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL RTE. 64 (NORTH AVE.) DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)				F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 12
	PLOT SCALE = 1" = 50'	CHECKED - JNR	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF	SHEETS	STA. 247+00	TO STA. 78+00	CONTRACT NO. 60677		
	PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT							

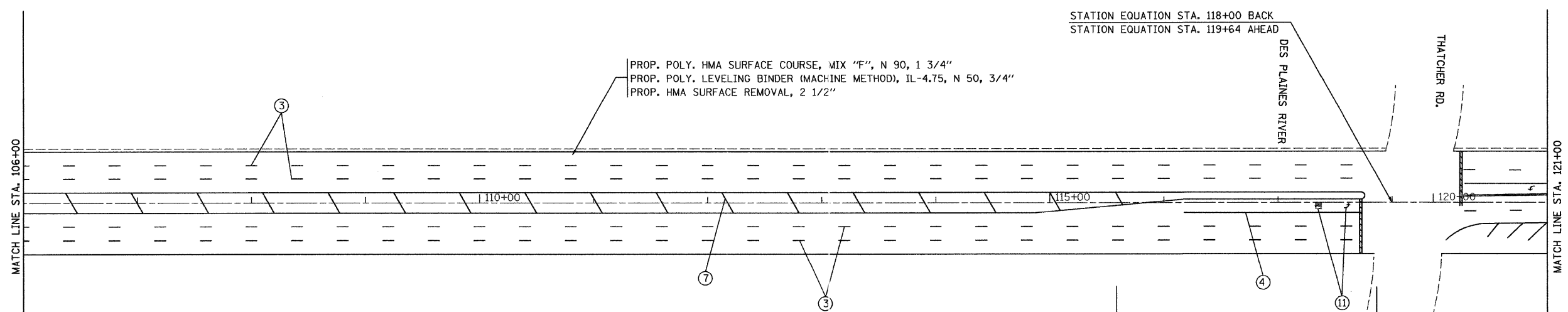


- LEGEND**
- ① 2-(4") YELLOW @ 11" C-C
 - ② (4") YELLOW EDGE LINE
 - ③ (4") WHITE LANE LINE 10' DASH 30' SKIP
 - ④ (6") WHITE TURN LANE
 - ⑤ (24") STOP LINES
 - ⑥ (8") WHITE LINE
 - ⑦ (12") YELLOW DIAGONALS
 - ⑧ (12") WHITE DIAGONALS
 - ⑨ (4") WHITE LINE
 - ⑩ (6") WHITE CROSSWALK LINE (PEDESTRIAN)
 - ⑪ LETTERS AND SYMBOLS
 - ⑫ (12") WHITE CROSSWALK LINE (SCHOOL)
 - ⑬ 6" WHITE DOTTED LINES (2' LINE WITH 6' SPACE)



NOTE:
 PERMANENT PAVEMENT MARKING SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS"
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) DETAILS"

FILE NAME = ...P1ans\p1n53389pp&mrk03.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL RTE. 64 (NORTH AVE.) DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)			F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 13	
	PLOT SCALE = 1" = 50'	DRAWN - IS	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF	SHEETS	STA. 78+00	TO STA.	105+00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
	PLOT DATE = 4/17/2009	CHECKED - JNR	REVISED -									CONTRACT NO. 60G77	
		DATE - 4/16/2009	REVISED -										

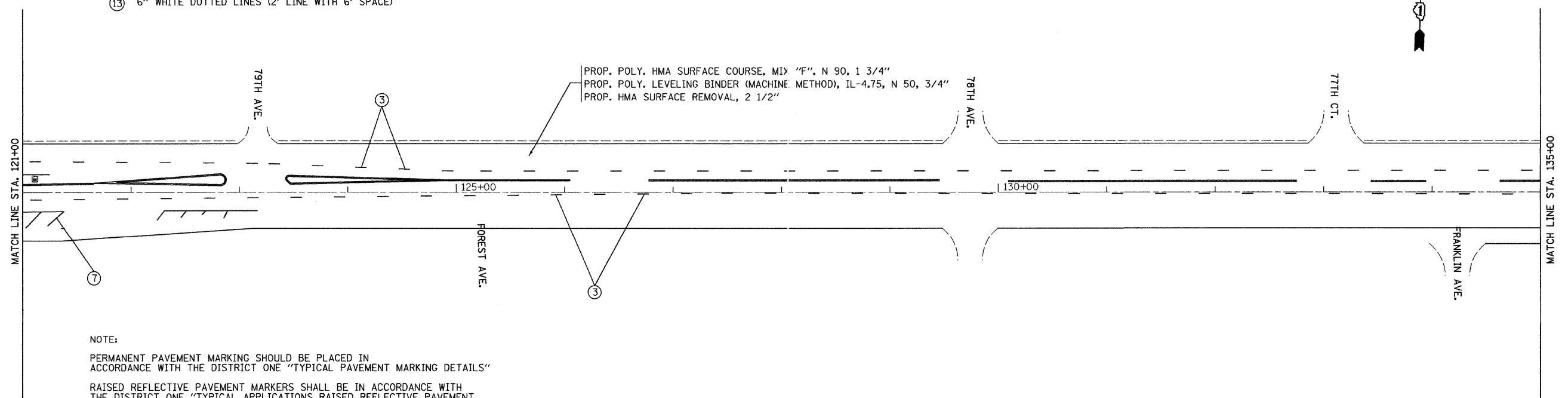


LEGEND

- ① 2-(4") YELLOW @ 11" C-C
- ② (4") YELLOW EDGE LINE
- ③ (4") WHITE LANE LINE 10' DASH 30' SKIP
- ④ (6") WHITE TURN LANE
- ⑤ (24") STOP LINES
- ⑥ (8") WHITE LINE
- ⑦ (12") YELLOW DIAGONALS
- ⑧ (12") WHITE DIAGONALS
- ⑨ (4") WHITE LINE
- ⑩ (6") WHITE CROSSWALK LINE (PEDESTRIAN)
- ⑪ LETTERS AND SYMBOLS
- ⑫ (12") WHITE CROSSWALK LINE (SCHOOL)
- ⑬ 6" WHITE DOTTED LINES (2' LINE WITH 6' SPACE)

NOTE:

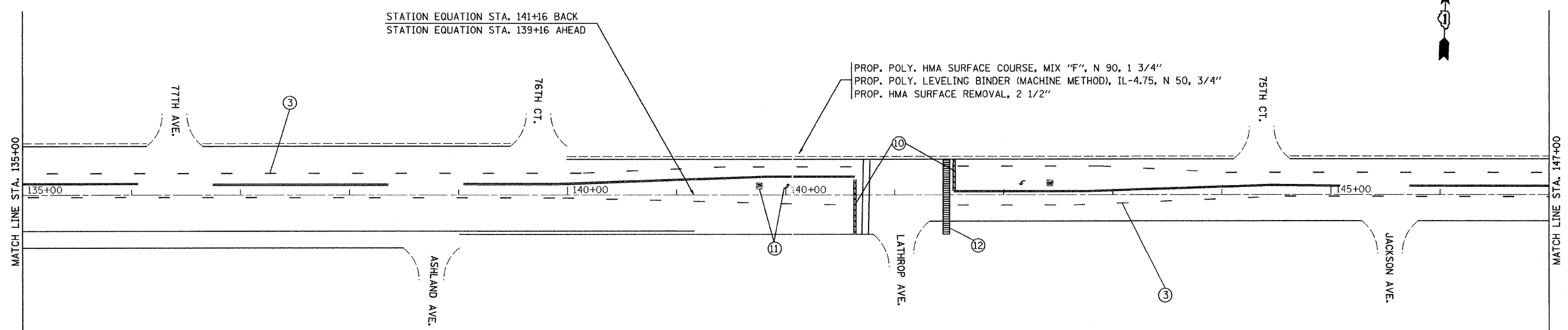
NORTH AVE. BRIDGE OVER THE DES PLAINES RIVER SHALL HAVE SURFACE REMOVAL ONLY (1 3/4") AND SHALL BE PAVED WITH THE SAME PAVEMENT TYPE AS THE ROADWAY.



NOTE:

PERMANENT PAVEMENT MARKING SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS"
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-FLOW RESISTANT) DETAILS"

FILE NAME = ...\\P1ans\p1n5338\pp&mk18.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL RTE. 64 (NORTH AVE.) DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)	F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 14
PLOT SCALE = 1" = 50'				SCALE: 1" = 50'		SHEET NO. OF SHEETS		CONTRACT NO. 60G77		
PLOT DATE = 4/17/2009				DATE - 4/16/2009		STA. 106+00 TO STA. 135+00		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		

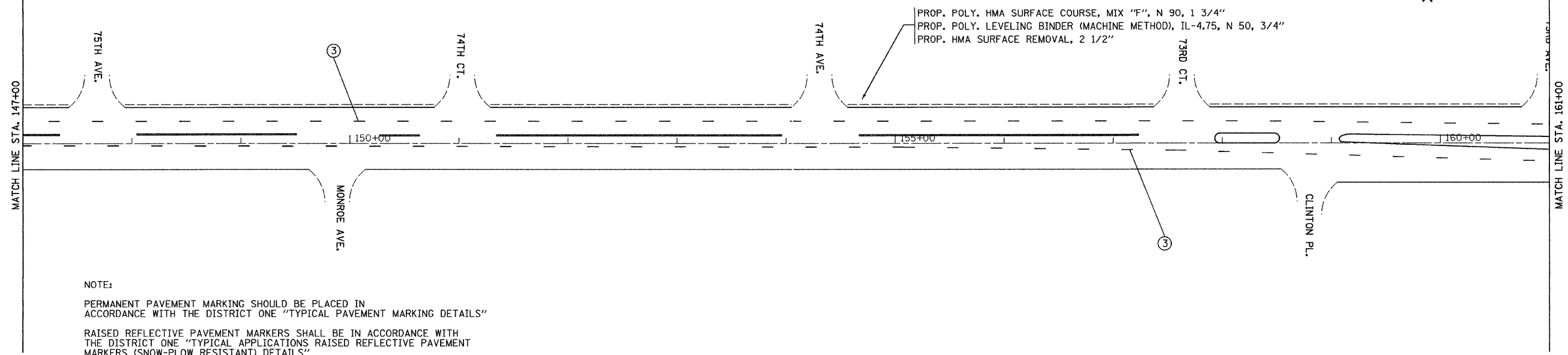


STATION EQUATION STA. 141+16 BACK
 STATION EQUATION STA. 139+16 AHEAD

PROP. POLY. HMA SURFACE COURSE, MIX "F", N 90, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N 50, 3/4"
 PROP. HMA SURFACE REMOVAL, 2 1/2"

LEGEND

- ① 2-(4") YELLOW @ 11" C-C
- ② (4") YELLOW EDGE LINE
- ③ (4") WHITE LANE LINE 10' DASH 30' SKIP
- ④ (6") WHITE TURN LANE
- ⑤ (24") STOP LINES
- ⑥ (8") WHITE LINE
- ⑦ (12") YELLOW DIAGONALS
- ⑧ (12") WHITE DIAGONALS
- ⑨ (4") WHITE LINE
- ⑩ (6") WHITE CROSSWALK LINE (PEDESTRIAN)
- ⑪ LETTERS AND SYMBOLS
- ⑫ (12") WHITE CROSSWALK LINE (SCHOOL)
- ⑬ 6" WHITE DOTTED LINES (2' LINE WITH 6' SPACE)

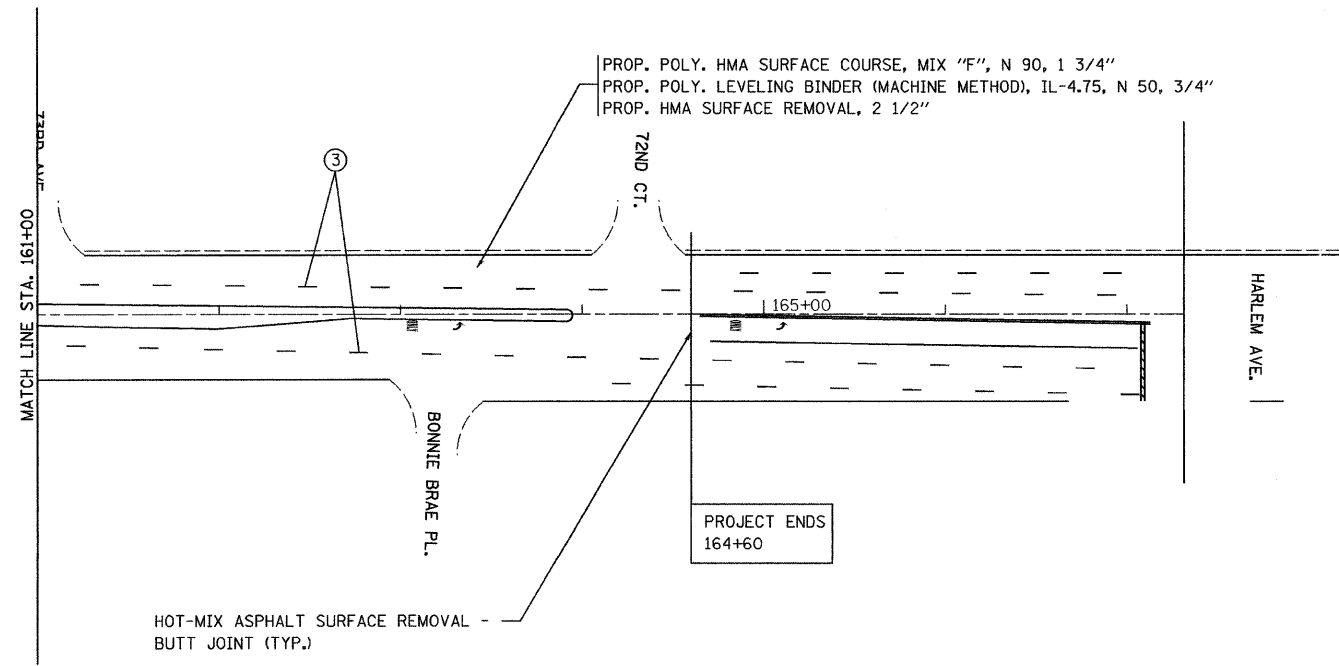


PROP. POLY. HMA SURFACE COURSE, MIX "F", N 90, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N 50, 3/4"
 PROP. HMA SURFACE REMOVAL, 2 1/2"

NOTE:

PERMANENT PAVEMENT MARKING SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS"
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) DETAILS"

FILE NAME = ...\\P1one\p1n53389pp&mrk11.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL RTE. 64 (NORTH AVE.) DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)		F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 15
	PLOT SCALE = 1" = 50'	CHECKED - JNR	REVISED -		SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. 135+00 TO STA. 161+00	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -	REVISED -		CONTRACT NO. 60677						



NOTE:

PERMANENT PAVEMENT MARKING SHOULD BE PLACED IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL PAVEMENT MARKING DETAILS"
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) DETAILS"

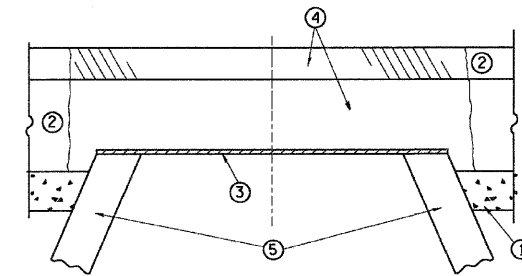


LEGEND

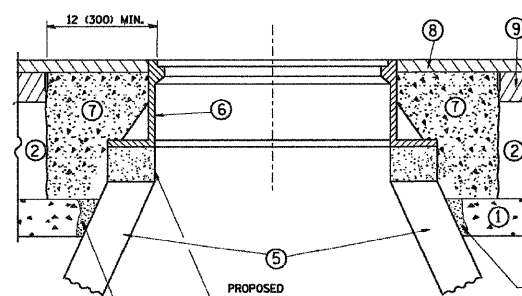
- ① 2-(4") YELLOW @ 11" C-C
- ② (4") YELLOW EDGE LINE
- ③ (4") WHITE LANE LINE 10' DASH 30' SKIP
- ④ (6") WHITE TURN LANE
- ⑤ (24") STOP LINES
- ⑥ (8") WHITE LINE
- ⑦ (12") YELLOW DIAGONALS
- ⑧ (12") WHITE DIAGONALS
- ⑨ (4") WHITE LINE
- ⑩ (6") WHITE CROSSWALK LINE (PEDESTRIAN)
- ⑪ LETTERS AND SYMBOLS
- ⑫ (12") WHITE CROSSWALK LINE (SCHOOL)
- ⑬ 6" WHITE DOTTED LINES (2' LINE WITH 6' SPACE)

FILE NAME = ...P1ans\p1n5330\pp&mrk12.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL RTE. 64 (NORTH AVE.) DUPAGE CO. LINE TO IL 43 (HARLEM AVE.)				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1" = 50'	CHECKED - JNR	REVISED -		307	541 RS-2	COOK	29	16				
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF	SHEETS	STA. 161+00	TO STA. 164+60	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			
											CONTRACT NO. 60G77		

CONTRACT NO.				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- CONSTRUCTION PROCEDURES**
- STAGE 1 (BEFORE PAVEMENT MILLING)**
- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
 - B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
 - C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
 - D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.



- STAGE 2 (AFTER PAVEMENT MILLING)**
- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
 - B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
 - C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS S1 CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

- LEGEND**
- ① SUB-BASE GRANULAR MATERIAL
 - ② EXISTING PAVEMENT
 - ③ 36 (900) DIAMETER METAL PLATE
 - ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
 - ⑤ EXISTING STRUCTURE
 - ⑥ FRAME AND LID (SEE NOTES)
 - ⑦ CLASS S1 CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
 - ⑧ PROPOSED HMA SURFACE COURSE
 - ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL". NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

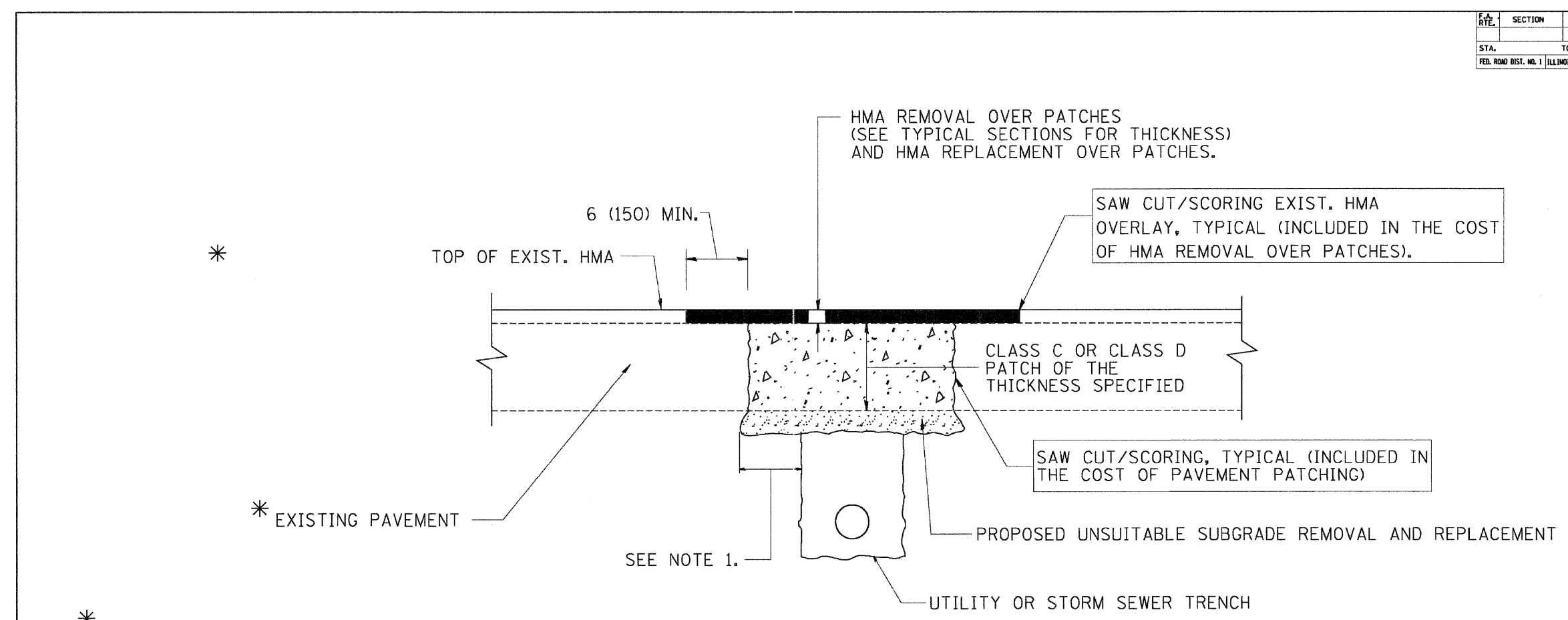
SCALE: VERT. NONE
HORIZ. NONE

DRAWN BY
CHECKED BY
BD600-03 (BD-B)

PLOT DATE = 3/7/2007
PLOT SCALE = N.T.S.
PLOT USER = gthesse

FILE NAME = ...p\In53309_Dist1_Det01.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 17
PLOT SCALE = N.T.S.	CHECKED - JNR	REVISIONS -	CONTRACT NO. 60G77							
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISIONS -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
SCALE: SHEET NO. OF SHEETS STA. TO STA.										

CONTRACT NO.				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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.

PLOT DATE = 4/17/2009
 PLOT SCALE = N.T.S.
 USER NAME = gthesse

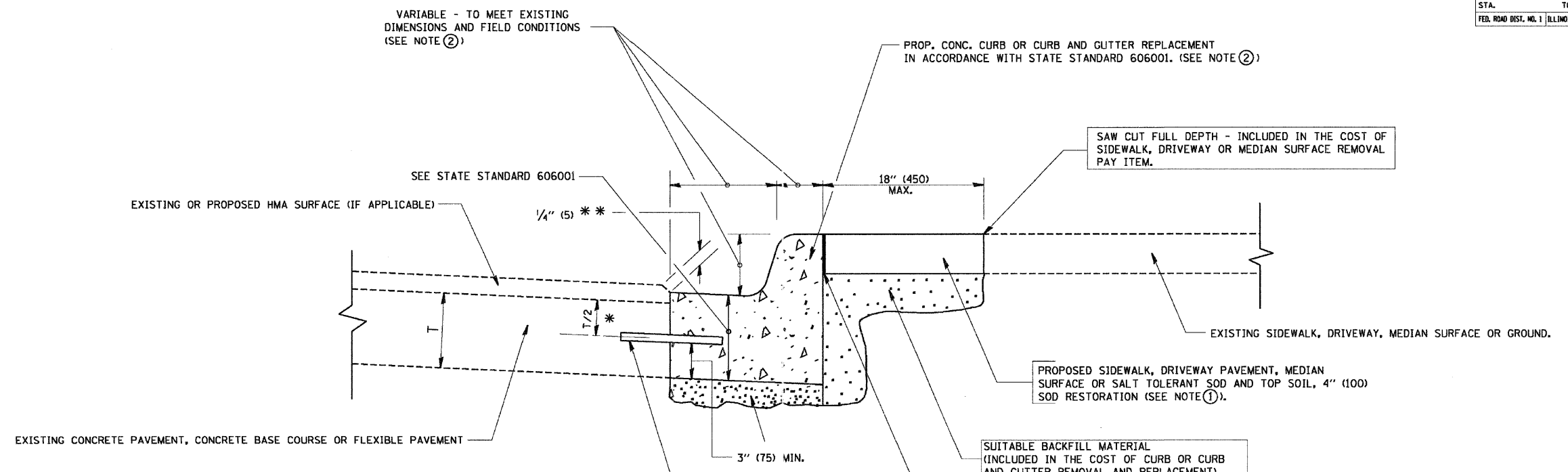
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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
R. BORO	09/04/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
 SCALE: VERT. NONE
 HORIZ. NONE
 DRAWN BY
 CHECKED BY
 BD400-04 (BD-22)

FILE NAME = ...pIn53309_Dist1_Dot102.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = N.T.S.	CHECKED - JNR	REVISIONS -	307			541 RS-2	COOK	29	18	
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISIONS -	CONTRACT NO. 60G77							
			SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

CONTRACT NO.				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
- SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

BASIS OF PAYMENT:
 THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

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

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/95
R. SHAH	09/12/95
R. SHAH	09/19/95
R. SHAH	10/03/95
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

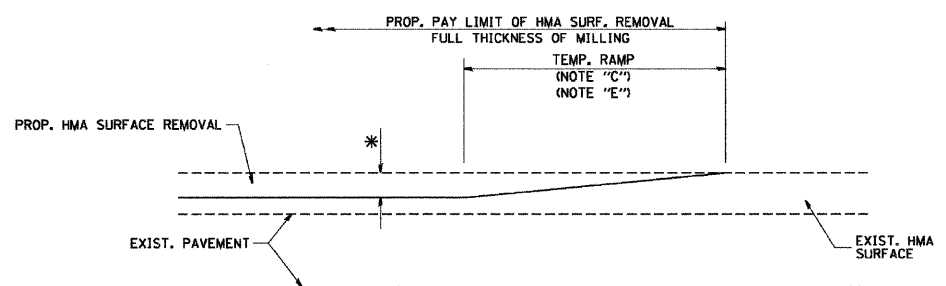
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 HORIZ. NONE
 DRAWN BY
 CHECKED BY
 BD600-06 (BD-24)

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

PLOT DATE = 3/16/2007
 PLOT NAME = IN53309.Dgn
 USER NAME = gthiesse

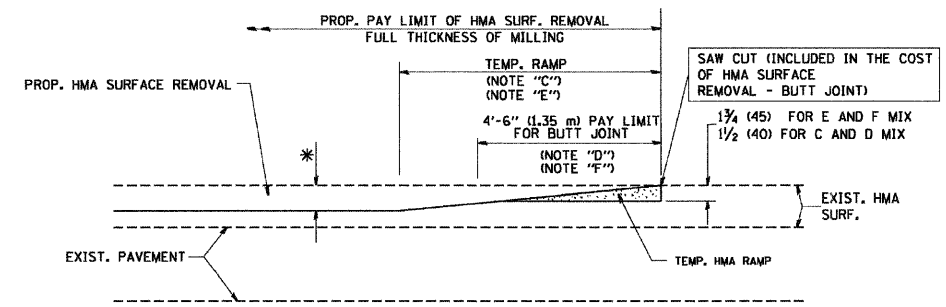
FILE NAME = ...p\In53309_Dist1_Det03.dgn	USER NAME = gthiesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 19		
PLOT SCALE = N.T.S.	CHECKED - JNR	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60G77				
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									

CONTRACT NO.		TOTAL SHEET NO.	
F.A. RTE.	SECTION	COUNTY	SHEET NO.
STA.	TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT



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

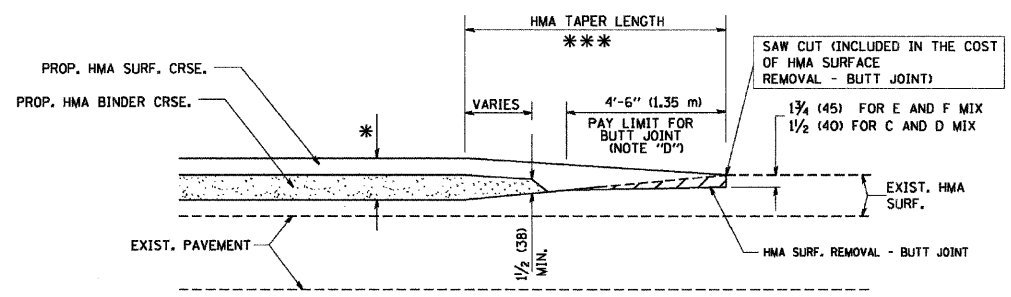
OPTION 1



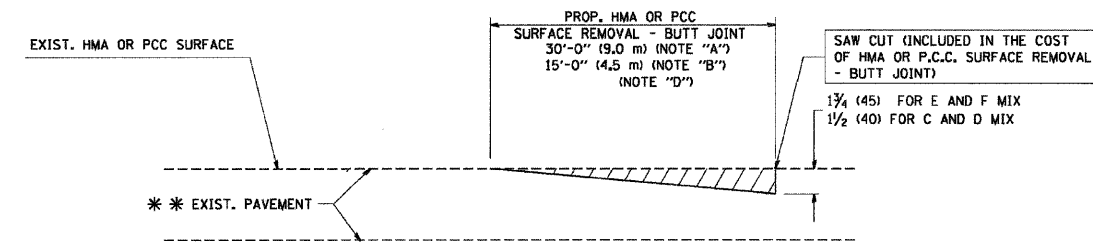
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

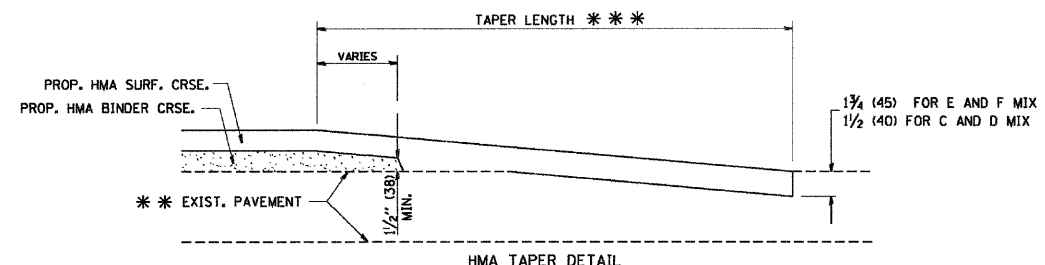
TYPICAL TEMPORARY RAMP



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 (SQ. 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

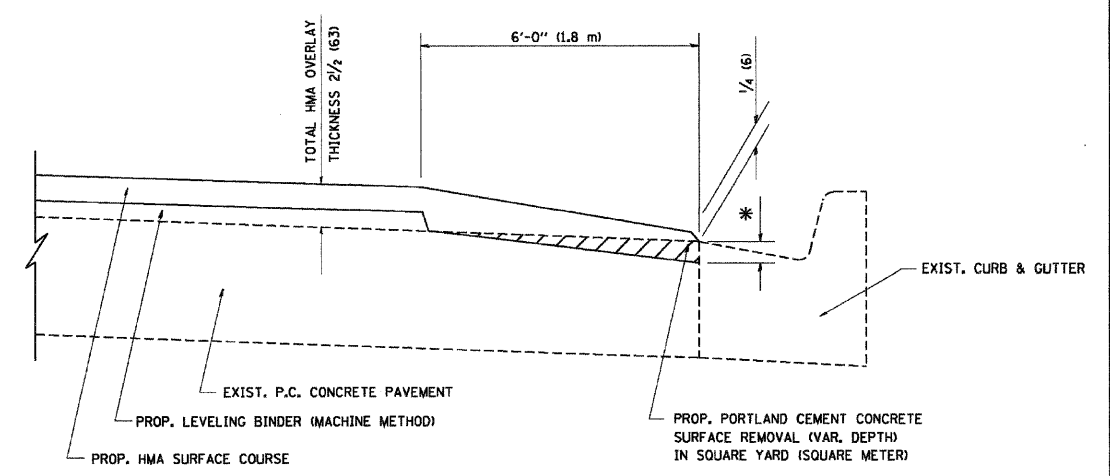
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HORIZ.

DRAWN BY
CHECKED BY
BD400-05 (VI-BD32)

PLOT DATE = 3/0/2007
PLOT SCALE = 1/8" = 1'-0"
PLOT USER = gthesse

FILE NAME = ...lpIn53309_Dist1_Det04.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = N.T.S.	CHECKED - JNR	REVISED -	307			541 RS-2	COOK	29	20	
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -	CONTRACT NO. 60G77							
			SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

CONTRACT NO.				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



HMA TAPER AT
EDGE OF P.C.C. PAVEMENT

HMA SURFACE	THICKNESS	LEVELING BINDER THICKNESS	* MILLING AT GUTTER FLAG
C OR D	1 1/2 (38)	1 (25)	1/4 (33)
F	1 3/4 (44)	3/4 (19)	1/2 (38)

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

REVISIONS	
NAME	DATE
R. SHAH	09/10/94
R. SHAH	10/25/94
A. ABBAS	05/05/99
E. COMEZ	12/21/00
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

HMA TAPER AT
EDGE OF P.C.C. PAVEMENT

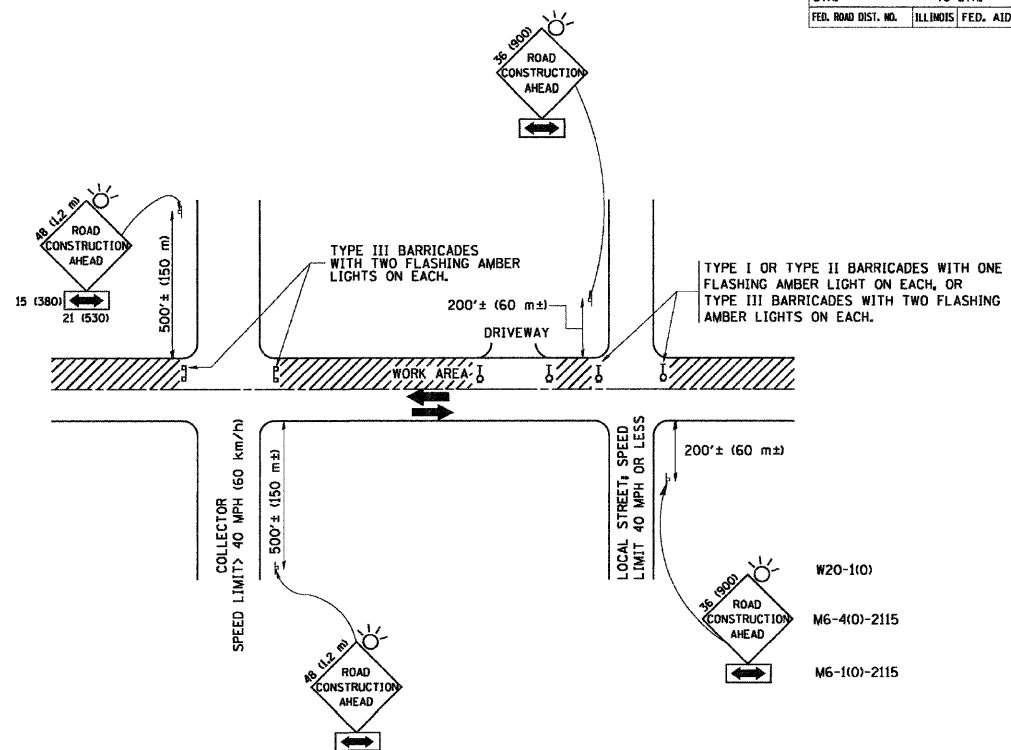
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HORIZ. NONE

DRAWN BY Jjs
CHECKED BY A. ABBAS
BD400-06 (BD33)

PLOT DATE = 3/10/2007
PLOT SCALE = N.T.S.
PLOT USER = gthesse

FILE NAME = ...p\153309_Dist1_De105.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HMA TAPER AT EDGE OF PCC PAVEMENT	F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 21	
PLOT SCALE = N.T.S.	CHECKED - JNR	REVISIONS -	CONTRACT NO. 60677								
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISIONS -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								
			SCALE:			SHEET NO. OF SHEETS	STA. TO STA.				

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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:
 - 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.
 - 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.
 - 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	03/05/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

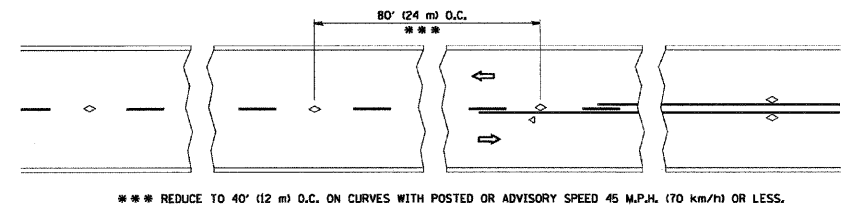
ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL AND PROTECTION FOR
 SIDE ROADS, INTERSECTIONS, AND
 DRIVEWAYS**

SCALE: NONE DRAWN BY
 CHECKED BY
 TC-10

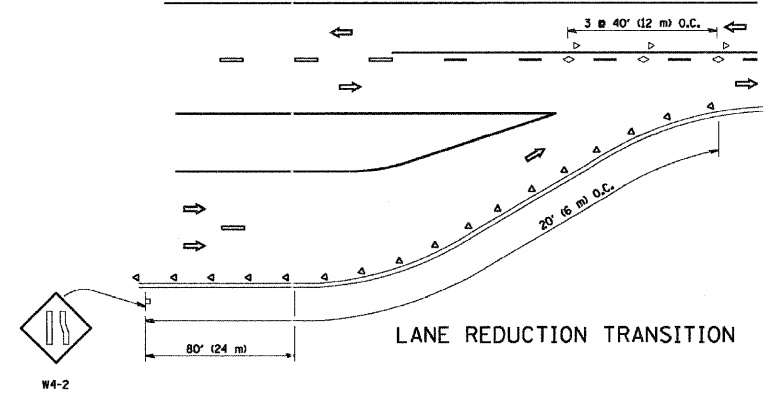
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 PLOT NAME = DIST1_Det06.dgn
 USER NAME = gthesse

FILE NAME = ...p\In53309_Dist1_Det06.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = N.T.S.	CHECKED - JNR	REVISED -			307	541 RS-2	COOK	29	22	
	PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -			CONTRACT NO. 60G77					
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	

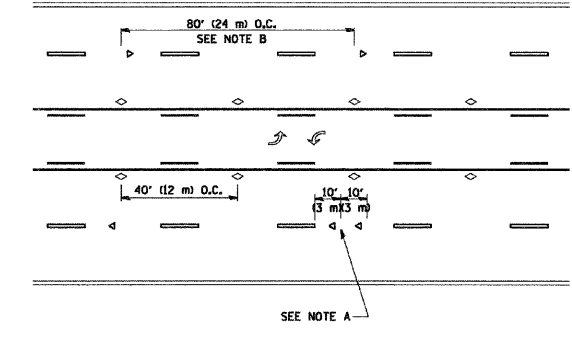
CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



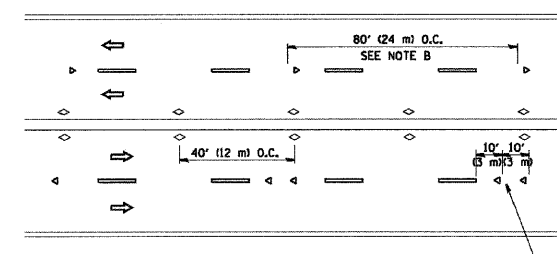
TWO-LANE/TWO-WAY



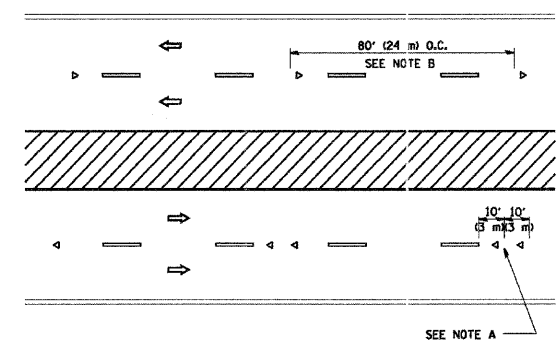
LANE REDUCTION TRANSITION



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

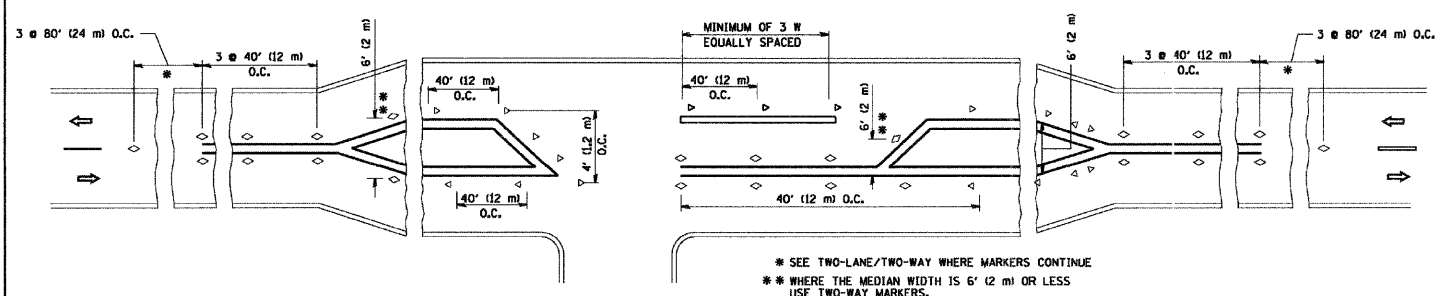
- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER (W/O)
- ◇ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- 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.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

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 SHOULD BE INCLUDED IN THE PLANS.
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

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT
MARKERS (SNOW-PLOW RESISTANT)

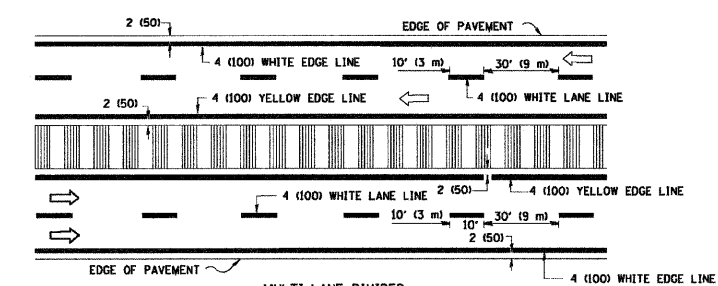
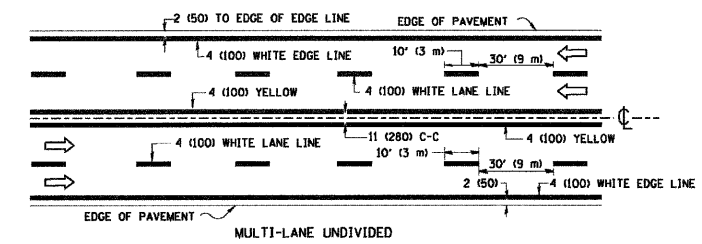
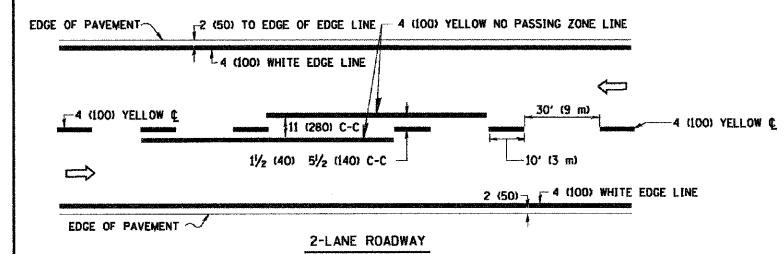
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PLT DATE = 4/17/2009
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PLOT SCALE = 3/16" = 1'-0"
USER NAME = gthesse

FILE NAME = ...pIn53309_Dist1_Det07.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	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.	
PLOT SCALE = N.T.S.	CHECKED - JNR	REVISED -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	307	541 RS-2	COOK	29 23
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -	REVISED -						CONTRACT NO. 60G77					
												FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

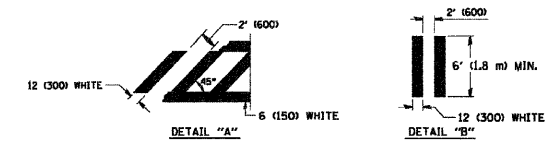
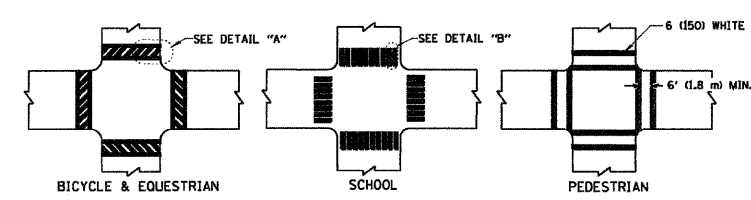
CONTRACT NO.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	541 RS-2	COOK	29	24
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G77	

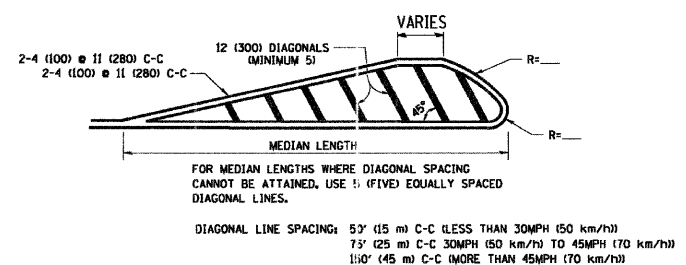
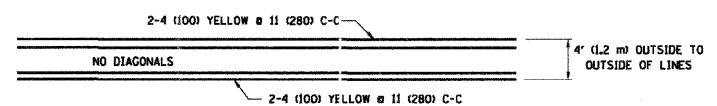


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

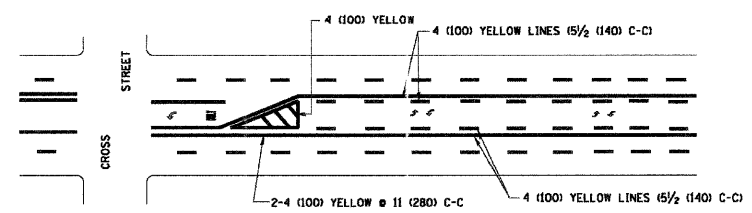
TYPICAL LANE AND EDGE LINE MARKING



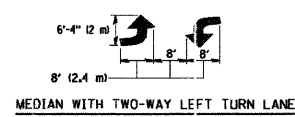
TYPICAL CROSSWALK MARKING



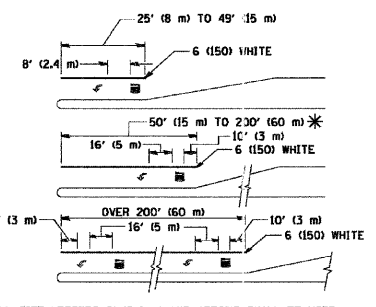
TYPICAL PAINTED MEDIAN MARKING



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.



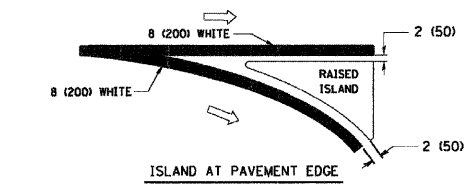
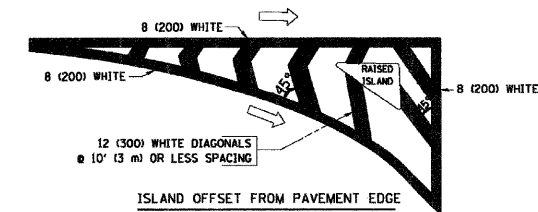
TYPICAL TURN LANE MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) 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 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	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 WHITE WHITE	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE 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' (4.5 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 "R" = 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 inches (millimeters) unless otherwise shown.

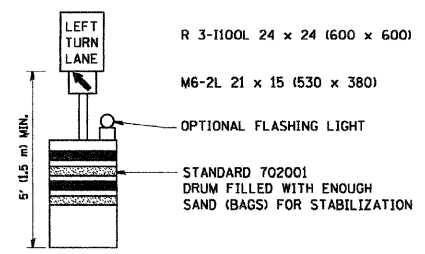
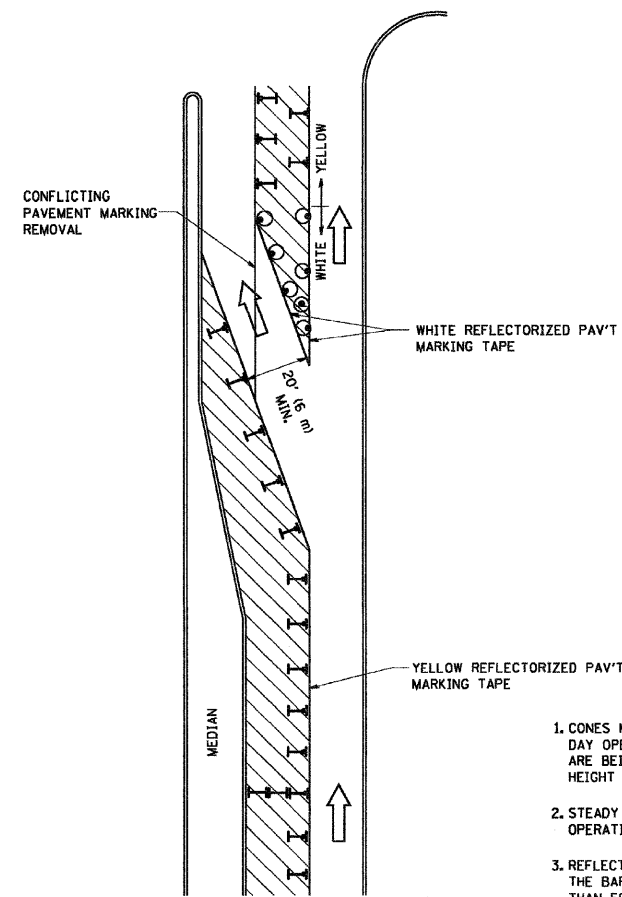
REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE
DRAWN BY CADD
CHECKED BY
TC-13

FILE NAME = ...lpIn53309_Dist1_Det1@8.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	DISTRICT ONE TYPICAL PAVEMENT MARKINGS				F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 24
PLOT SCALE = N.T.S.	CHECKED - JNR	DATE - 4/16/2009	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60G77		ILLINOIS FED. AID PROJECT		
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.								

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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.

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

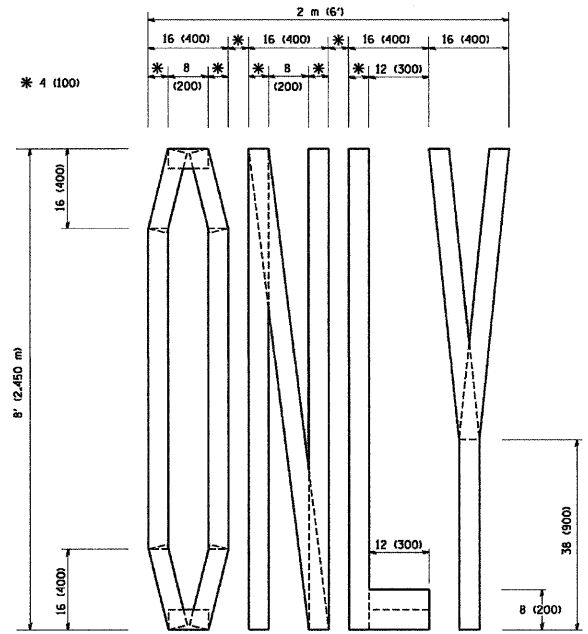
REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
 SCALE: NONE
 DRAWN BY: LHA
 CHECKED BY: LHA
 TC-14

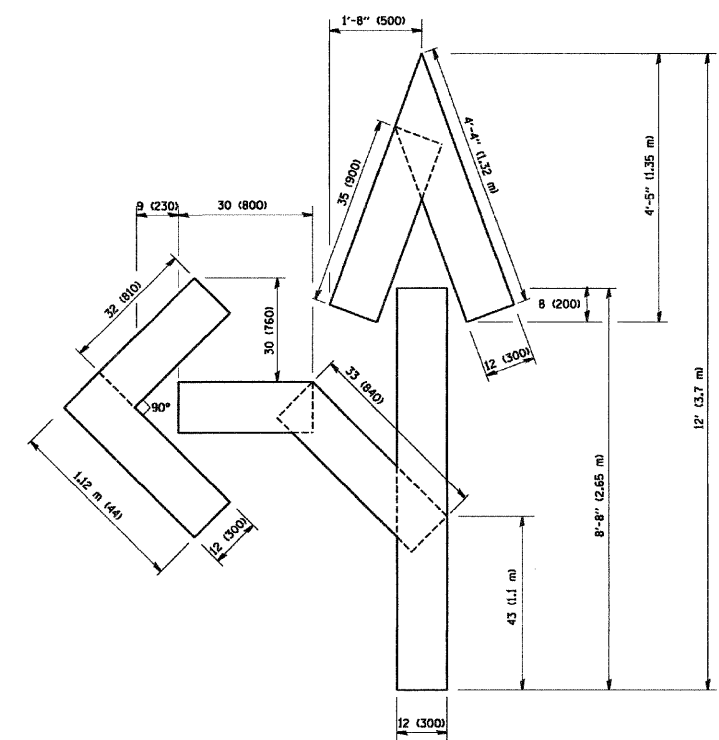
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 USER NAME = bward

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	PLOT SCALE = N.T.S.	DRAWN - IS	REVISED -			307	541 RS-2	COOK	29	25	
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		DATE - 4/16/2009	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

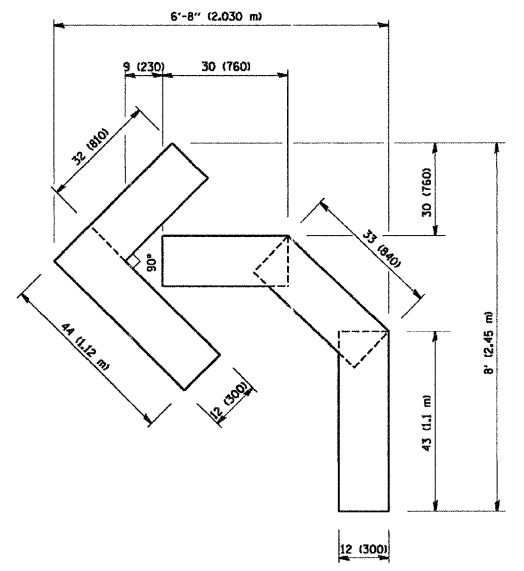
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F.A.P. RTE.	SECTION	COUNTY			
STA.	TO STA.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				



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



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



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

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

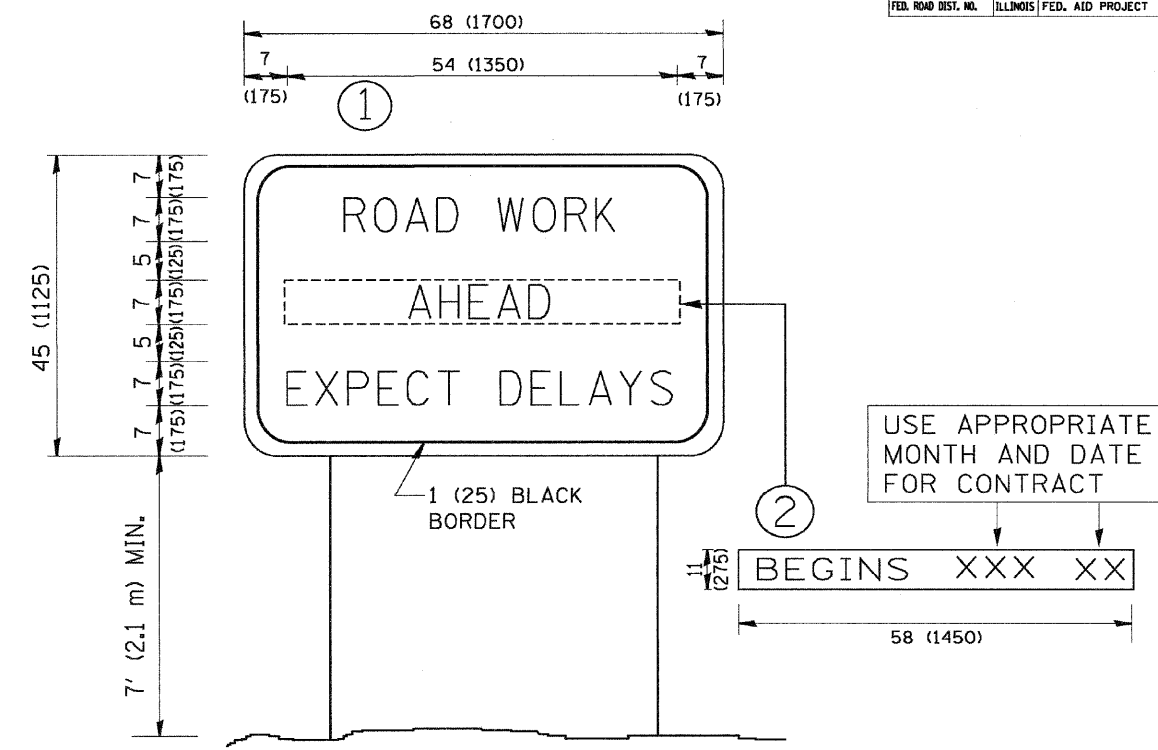
REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. COMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
SCALE: NONE
DRAWN BY CADD
CHECKED BY TC-16

PLOT DATE = 4/17/2009
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PLOT SCALE = 3/8" = 1'-0"
USER NAME = gthesse

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PLOT SCALE = N.T.S.	CHECKED - JNR	REVISED -	307			541 RS-2	COOK	29	26	
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -	CONTRACT NO. 60G77							
			SCALE:			SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

CONTRACT NO.			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
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.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

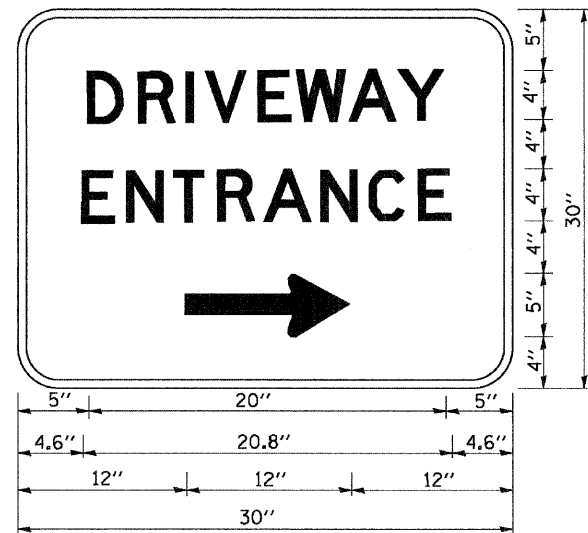
REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-31-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION
ARTERIAL ROAD INFORMATION SIGN
SCALE: NONE
DRAWN BY DESIGN
CHECKED BY
TC22

PLOT DATE = 3/6/2007
FILE NAME = ...pIn53309_Dist1_Det11.dgn
USER NAME = gthesse

FILE NAME = ...pIn53309_Dist1_Det11.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISSED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 27
PLOT SCALE = N.T.S.	CHECKED - JNR	REVISSED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 60677				
PLOT DATE = 4/16/2009	DATE - 4/16/2009	REVISSED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

CONTRACT NO.			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

PLOT DATE = 2/1/2007
 FILE NAME = K:\Users\gthesse\...
 USER NAME = gthesse

REVISIONS	
NAME	DATE
C. JUCIUS	02/15/07

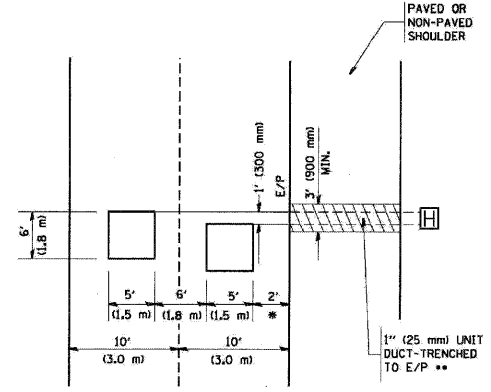
ILLINOIS DEPARTMENT OF TRANSPORTATION
DRIVEWAY ENTRANCE SIGNING
 SCALE: NONE
 DATE: _____
 DRAWN BY: R.J.L.
 CHECKED BY: _____
 TC-26

FILE NAME = ...p\p\53309_Dist1_Det12.dgn	USER NAME = gthesse	DESIGNED - AJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING	F.A.P. RTE. 307	SECTION 541 RS-2	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 28		
PLOT SCALE = N.T.S.	CHECKED - JNR	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60G77				
PLOT DATE = 4/17/2009	DATE - 4/16/2009	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT						

CONTRACT NO.				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA. TO STA.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

LOOPS NEXT TO SHOULDERS

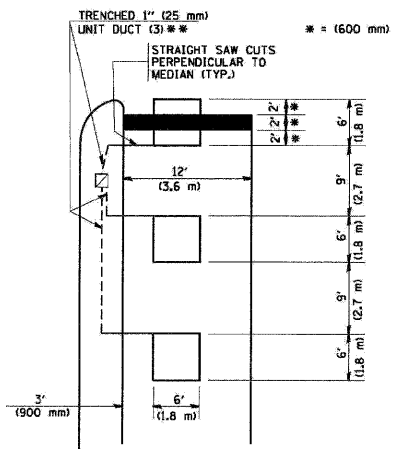
PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

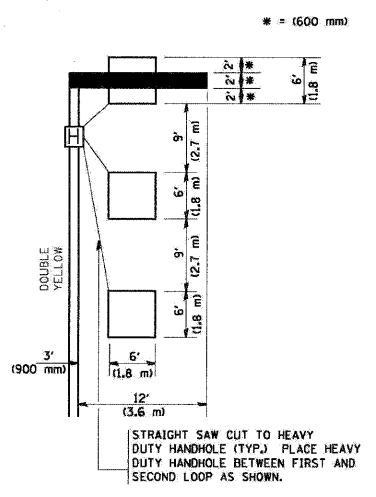
**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



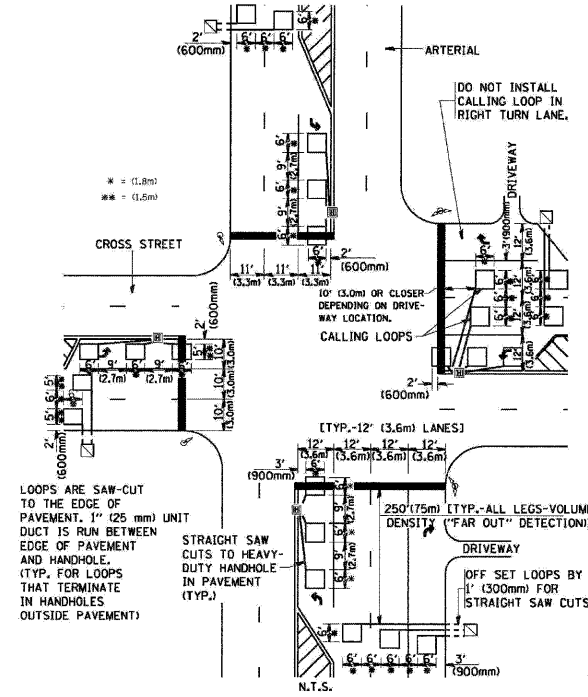
** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

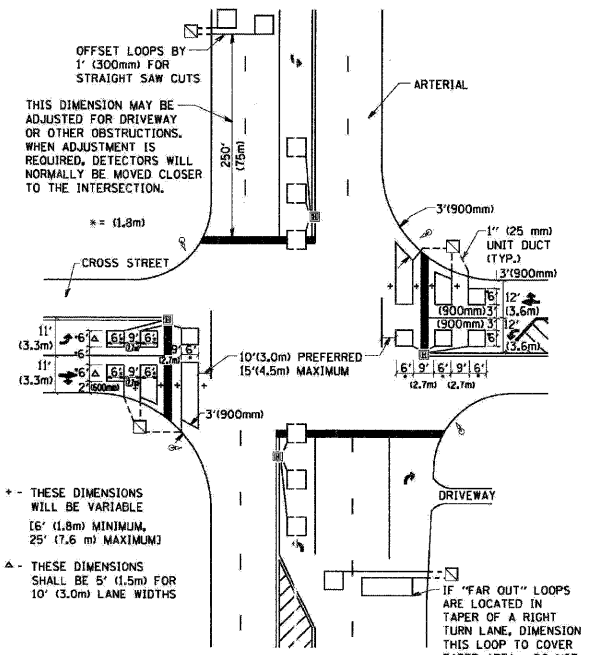
**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

DETAIL 1
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



* THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]
^ THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e., 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
DETECTOR LOOP
INSTALLATION DETAILS
FOR ROADWAY RESURFACING
DESIGNED BY
DRAWN BY CADD
CHECKED BY R.K.F.
TS07