STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS PROPOSED

FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY PLANS

F.A.P. 337 /ILLINOIS ROUTE 22 (HALF DAY ROAD) STORYBOOK LANE (WESTMINSTER WAY) TO LANDON LANE SECTION 20 RS-9 **RESURFACING (3P)** LAKE COUNTY C-91-598-09

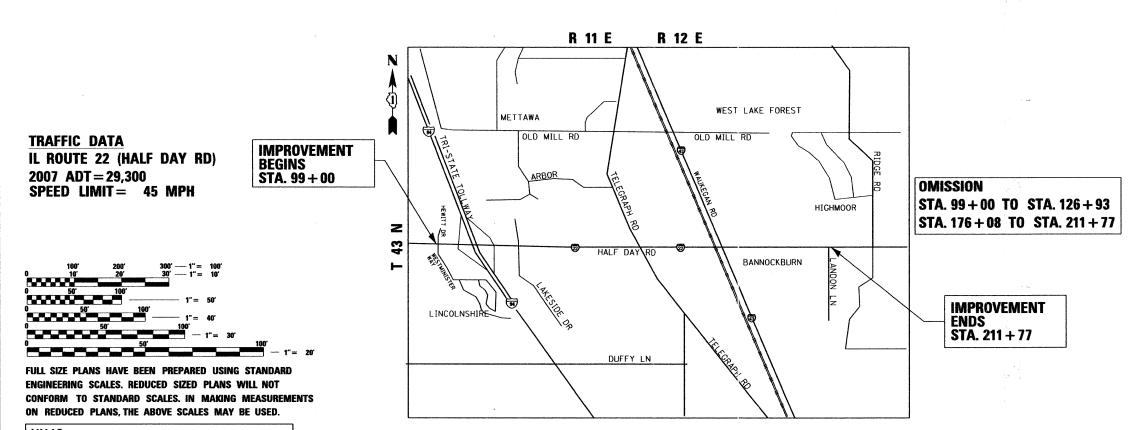
IMPROVEMENT LOCATED WITHIN THE VILLAGE OF BANNOCKBURN

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SCALE: NTS

VERNON AND WEST DEERFIELD TOWNSHIPS

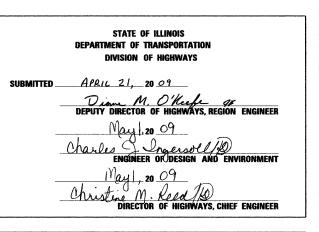
GROSS LENGTH OF PROJECT = 11,277 FT = 2.14 MILES NET LENGTH OF PROJECT = 4.915 FT = 0.93 MILES

MILLENNIA PROFESSIONAL SERVICES 062-058379

SECTION LAKE 22 1 ILLINOIS CONTRACT NO. 60H28

D-91-598-09







PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

DISTRICT ONE -

PROJECT MANAGER: LONG TRAN (847) 705-4232 PROJECT ENGINEER: MICHELLE AQUINO (847) 705-4606

CONTRACT NO. 60H28

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
- 3 SUMMARY OF QUANTITIES
- 4-5 TYPICAL SECTIONS
- 6-10 ROADWAY AND PAVEMENT MARKING PLAN
- 11-12 LOOP DETECTORS PLAN
- 13 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BDO8)
- 14 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD22)
- 15 CURB OR CURB AND GUTTER REMOVAL AND REPLACE (BD24)
- 16 BUTT JOINTS AND HMA TAPER (BD32)
- 17 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC10)
- 18 RAISED REFLECTIVE PAVEMENT MARKERS. SNOW PLOW RESISTANT (TC11)
- 19 DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC13)
- 20 PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
- 21 ARTERIAL ROAD INFORMATION SIGN (TC22)
- 22 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACE (TS-07)

HIGHWAY STANDARDS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

442201-03 CLASS CLAND D PATCHES

HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND 482011-03

RESURFACING PROJECTS

606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > OR = 45 MPH

701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701306-01 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY

FOR SPEEDS > OR = 45 MPH

701311-02 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY

701421-02 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY FOR SPEEDS > OR = 45 MPH TO 55 MPH

701426-03 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS

FOR SPEEDS > OR = 45 MPH

701501-05 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN

701701-06 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701901-01 TRAFFIC CONTROL DEVICES

COMMITMENTS

NO COMMITMENTS FOR THIS PROJECT

GENERAL NOTES

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES, AND THE VILLAGE OF BANNOCKBURN.
- 3 THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 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.
- ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE, NO ADDITIONAL COST TO THE DEPARTMENT
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- 7 ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- LOCATIONS OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT. WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE BY THE ENGINEER.
- 10 THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- 11 THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 12 THE ENGINEER SHALL CONTACT DEBBIE HANLON, THE TRAFFIC FIELD TECHNICIAN AT (847) 438-2300 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 13 THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 14 DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 15 DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN ON THE PLANS.
- 16 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).
- 17 BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.
- 18 PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND IT'S REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.
- THE CONTRACTOR SHALL PLACE PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT 1 TYPICAL PAVEMENT MARKINGS DETAIL (TC-13).

SCALE: NTS SHEET NO. OF SHEETS STA.

22

		-	TOTAL	CONSTRUC TYPE C	
	SUMMARY OF QUANTITIES		QUANTITY		
			100% STATE	1000	
CODE NO.	ITEM DESCRIPTION	UNIT		QUANTITY	
20201006	GRADING AND SHAPING SHOULDERS	UNIT	76	76	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	43	43	
40600300	AGGREGATE (PRIME COAT)	TON	43	43	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	7	7	
40600895	CONSTRUCTING TEST STRIP	EACH	2	2	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	142	142	
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	143	143	
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	2100	2100	
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	21400	21400	
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	50	50	
44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SQ YD	542	542	
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	48	48	
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	227	227	
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	160	160	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	107	107	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	305	305	
			303	303	
55039700	STORM SEWERS TO BE CLEANED	FOOT	40	40	
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4	
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	2	2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO			
61000400	ENGINEER'S FIELD OFFICE, TIPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
701003 10	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LASUM	1	1	
70100460					
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION. STANDARD 701701	L SUM	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2500	2500	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	150	150	
70300220	· TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	18600	18600	

	SUMMARY OF QUANTITIES	TOTAL	CONSTRUCTIO TYPE CODE		
	SUMMANI OI COANTIILS		100%		
CODE NO.	ITEM DESCRIPTION	UNIT	STATE	1000	
CODE NO.	TIEM DESCRIPTION	ONT	URBAN	QUANTITY	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	900	900	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	850	850	
	ÿ %;				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	150	150	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	840	840	
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	150	150	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	18600	18600	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	900	900	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	850	850	
				000	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	150	150	
	g ^r d				
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	510	510	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	510	510	
88600600	DETECTOR LOOP REPLACEMENT	FOOT	1202	1202	
X0322256	TEMPORARY INFORMATION SIGNING	SO FT	52	52	
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	900	900	
70019500	DDAINAGE CTRUCTURES TO RE CLEANED	5100		4	
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4	4	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	

* SPECIALTY ITEM

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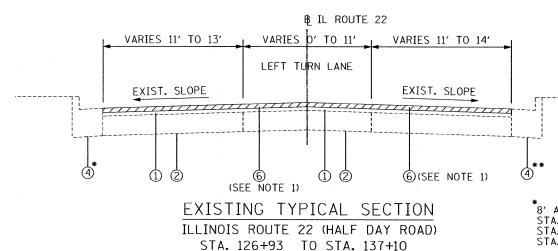
200 22ND Street, Suite 216, Lombard, IL 68148 630.705.0110 voice, 630.839.2566 fax WWW.MPS-IL.COM MILLENNIA PROFESSIONAL SERVICES

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.	CHECKED	-	RPD	REVISED		
	DATE	-	4/21/2009	REVISED	-	

STATE OF II.LINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 (HALF DAY RD) STORYBOOK LN /WESTMINISTER TO LANDON LN SCALE: NTS SHEET NO. OF SHEETS STA.

SUMMARY OF QUANTITIES TO STA.



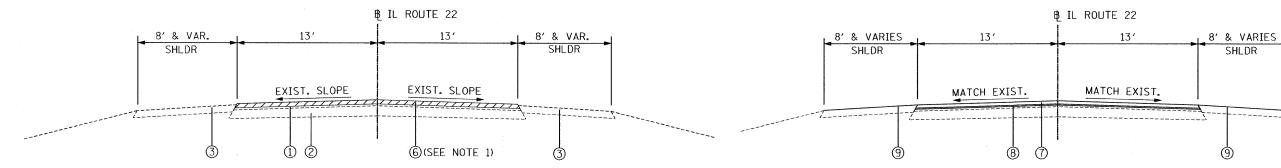
STA. 152+09 TO STA. 164+12

B IL ROUTE 22 VARIES 11' TO 13' VARIES D' TO 11' VARIES 11' TO 14' LEFT TURN LANE MATCH EXIST. MATCH EXIST. **(1)** 7 (SEE NOTE 2) (SEE NOTE 2)

8' AGGREGATE SHOULDER STA. 132+58 TO STA. 137+10 STA. 152+09 TO STA. 155+09 STA. 160+35 TO STA. 164+12

** 8' AGGREGATE SHOULDER STA. 132+38 TO STA. 137+10 STA. 152+09 TO STA. 155+09 STA. 161+38 TO STA. 164+12

PROPOSED TYPICAL SECTION ILLINOIS ROUTE 22 (HALF DAY ROAD) STA. 152+09 TO STA. 164+12



EXISTING TYPICAL SECTION ILLINOIS ROUTE 22 (HALF DAY ROAD) STA. 137+10 TO STA. 152+09

PROPOSED TYPICAL SECTION

ILLINOIS ROUTE 22 (HALF DAY ROAD) STA. 137+10 TO STA. 152+09

LEGEND

- ① EXISTING +/-4" HMA SURFACE
- (2) EXISTING +/-10" P.C.C. BASE
- ③ EXISTING AGGREGATE SHOULDER +/- 6"
- (4) EXISTING B-6.24 CURB AND GUTTER
- (5) EXISTING CORRUGATED MEDIAN
- 6 HMA SURFACE REMOVAL 2 1/2" (SEE NOTE 1)
- (7) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX F. (IL-9.5MM) N90 -1 3/4"
- (8) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -3/4"
- GRADING AND SHAPING SHOULDERS & AGGREGATE WEDGE SHOULDER, TYPE B
- (O) PROPOSED B-6.24 CURB AND GUTTER (SEE NOTE 2)

NOTES

- 1. THE CONTRACTOR SHALL PERFORM THE PAVEMENT PATCHING OPERATIONS PRIOR TO THE HMA SURFACE REMOVAL OPERATION. SEE IDOT DISTRICT 1 DETAIL PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT BD-400-04 (BD-22) FOR ADDITIONAL INFORMATION.
- 2.LOCATIONS OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT, WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

HMA MIXTURES REQUIREMENT								
MIXTURE USES	AC TYPE	VOIDS						
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX F, N90 (IL-9.5)	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.						
CLASS D PATCHES (HMA BINDER IL-19 MM)	PG 64-22 (SEE NOTE 2)	4% @ 70 GYR.						
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19MM)	PG 64-22 (SEE NOTE 2)	4% ⊚ 70 GYR.						

SHLDR

- MIXTURE NOTES:
- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN
- 2. WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

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_	CHECKED	-	RPD	REVISED	-
3	DATE	-	4/21/2009	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL ROUTE 22 (HALF	DAY RD)		TYPICAL SECTIONS	F.A.P. RTE.	
STORYBOOK LN /WESTMINISTER	TO LANDON LN		ITPICAL SECTIONS	337	
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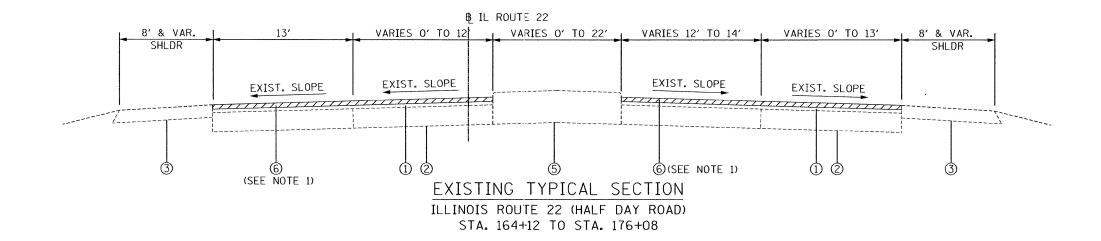
CONTRACT NO. 60H28 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

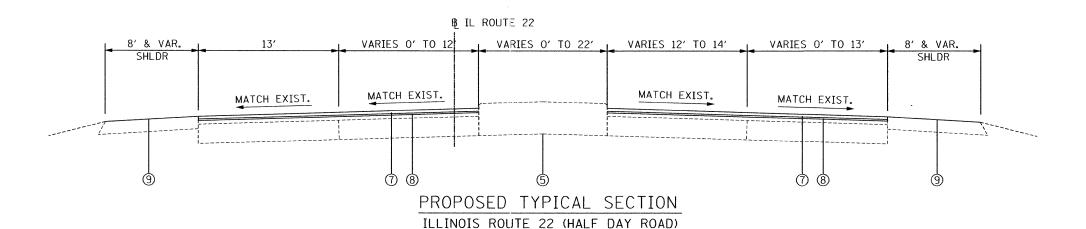
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TOTAL SHEE SHEETS NO.

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STA. 164+12 TO STA. 176+08

LEGEND

- ① EXISTING +/-4" HMA SURFACE
- ② EXISTING +/-10" P.C.C. BASE
- ③ EXISTING AGGREGATE SHOULDER +/- 6"
- (4) EXISTING B-6.24 CURB AND GUTTER
- (5) EXISTING CORRUGATED MEDIAN
- 6 HMA SURFACE REMOVAL 2 1/2" (SEE NOTE 1)
- 7 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX F, (IL.9.5MM) N90 -1 3/4"
- 8 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -3/4"
- GRADING AND SHAPING SHOULDERS & AGGREGATE WEDGE SHOULDER, TYPE B
- PROPOSED B-6.24 CURB AND GUTTER (SEE NOTE 2)

NOTES

- 1. THE CONTRACTOR SHALL PERFORM THE PAVEMENT PATCHING OPERATIONS PRIOR TO THE HMA SURFACE REMOVAL OPERATION. SEE IDOT DISTRICT 1 DETAIL PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT BD-400-04 (BD-22) FOR ADDITIONAL INFORMATION.
- 2.LOCATIONS OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT, WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

NIMA MIATURES REQUIREMENT								
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POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX F, N90 (IL-9.5)	SBS/SBR PG 70-22	4% @ 90 GYR.						
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HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19MM)	PG 64-22 (SEE NOTE 2)	4% @ 70 GYR.						

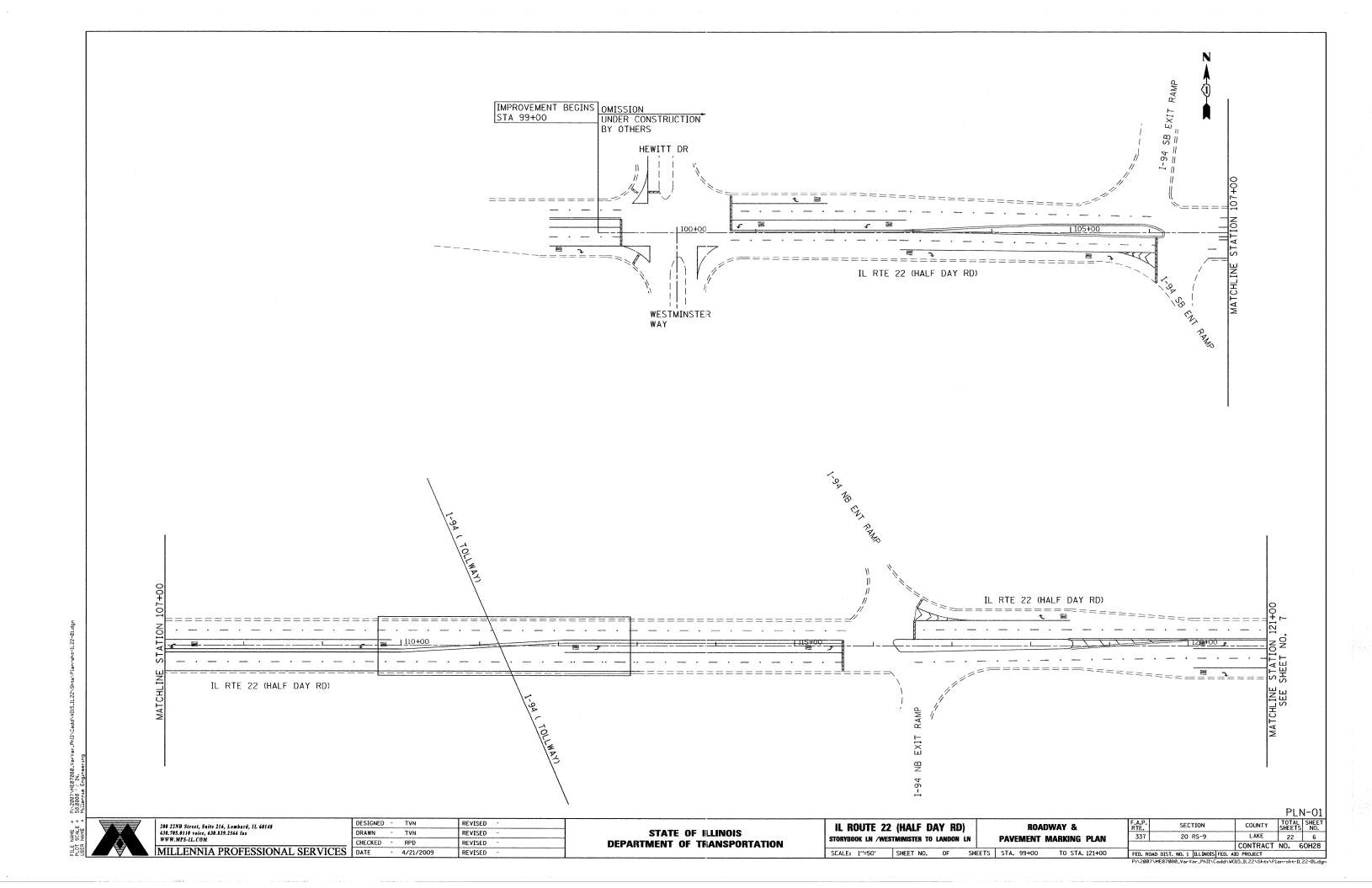
- MIXTURE NOTES:
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- MIXTURES IS 112 LBS/SO YD/IN
 2. WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

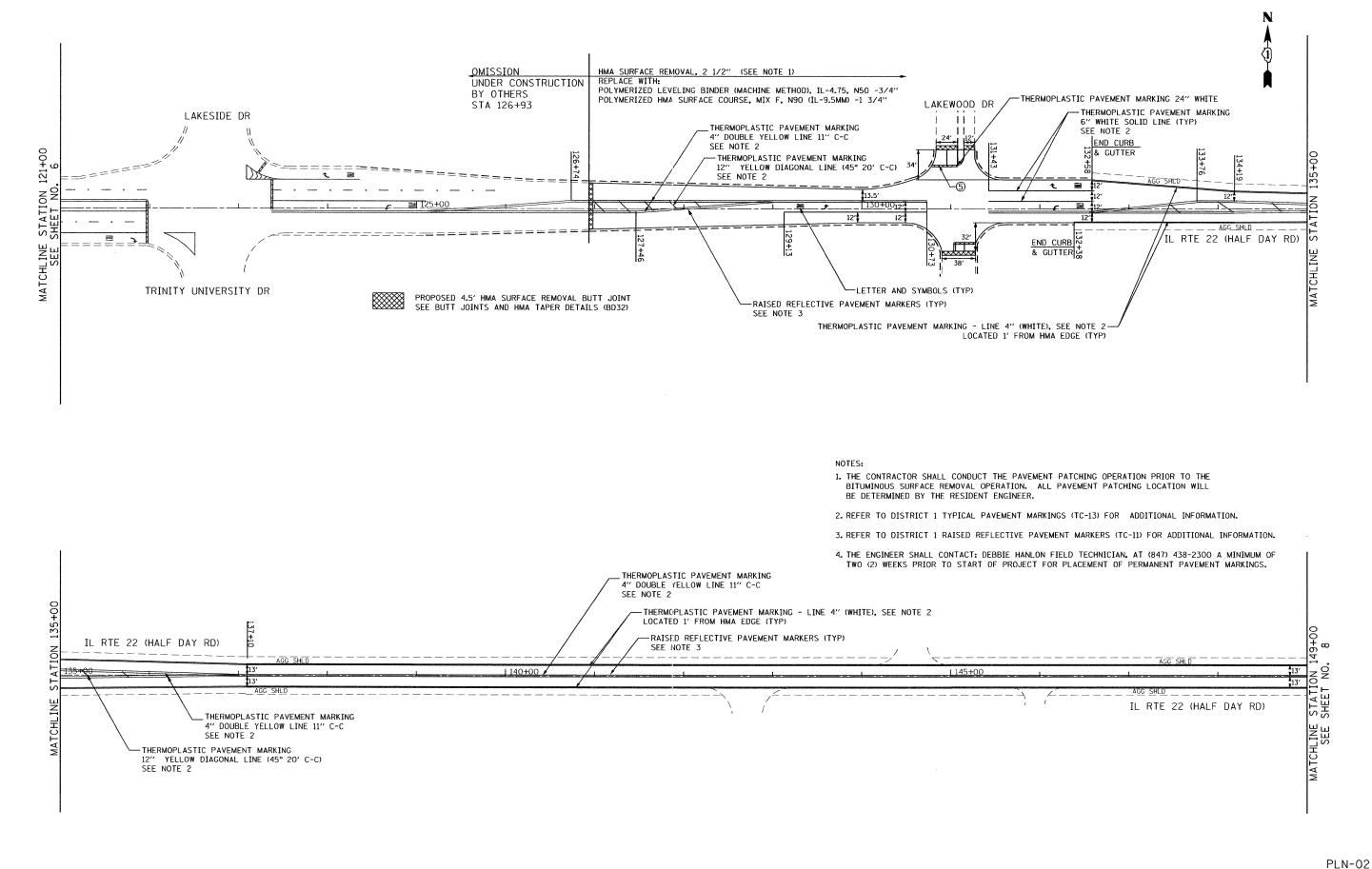
	280 22ND Street, Suite 216, Lombard, IL 60148 630.705.0110 voice, 630.839.2566 faz WWW.MPS-LL.COM MILLENNIA PROFESSIONAL SERVICES	DESIGNED - TVN DRAWN - TVN	REVISED - REVISED -	STATE OF IILLINOIS	IL ROUTE 22 (HALF DAY RD) STORYBOOK LN /WESTMINISTER TO LANDON LN			
		CHECKED - RPD DATE - 4/21/2009	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: NTS	SHEET NO.	0F	SI

TOTAL SHEE NO. F.A.P. RTE. 337 SECTION COUNTY TYPICAL SECTIONS LAKE 20 RS-9 22 5 CONTRACT NO. 60H28

SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

WESTMINISTER TO LANDON LN





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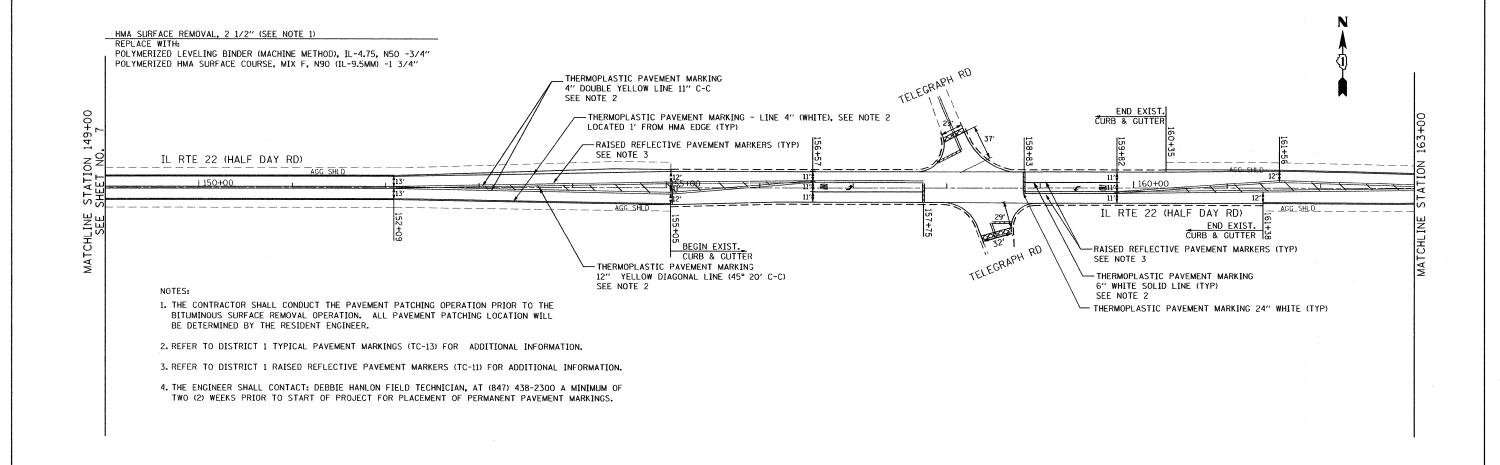
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

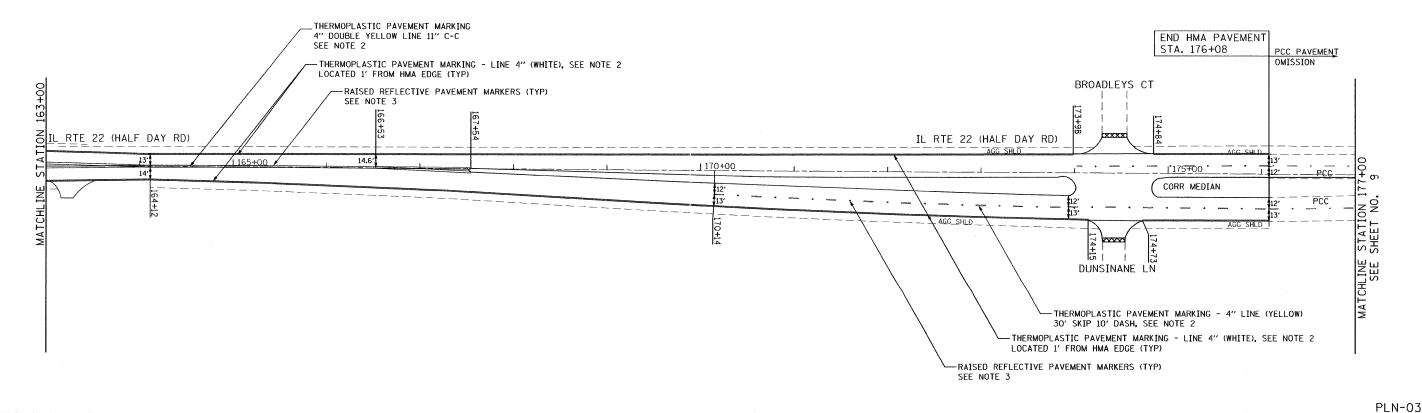
IL ROUTE 22 (HALF DAY RD) STORYBOOK LN /WESTMINISTER TO LANDON LN

ROADWAY & PAVEMENT MARKING PLAN SCALE: 1"=50" SHEET NO. OF SHEETS STA. 121+00 TO STA.149+00

TOTAL SHEET NO. SECTION . COUNTY LAKE 20 RS-9 337 CONTRACT NO. 60H28

FED. ROAD DIST, NO. 1 ILLINOIS FED. AID PROJECT
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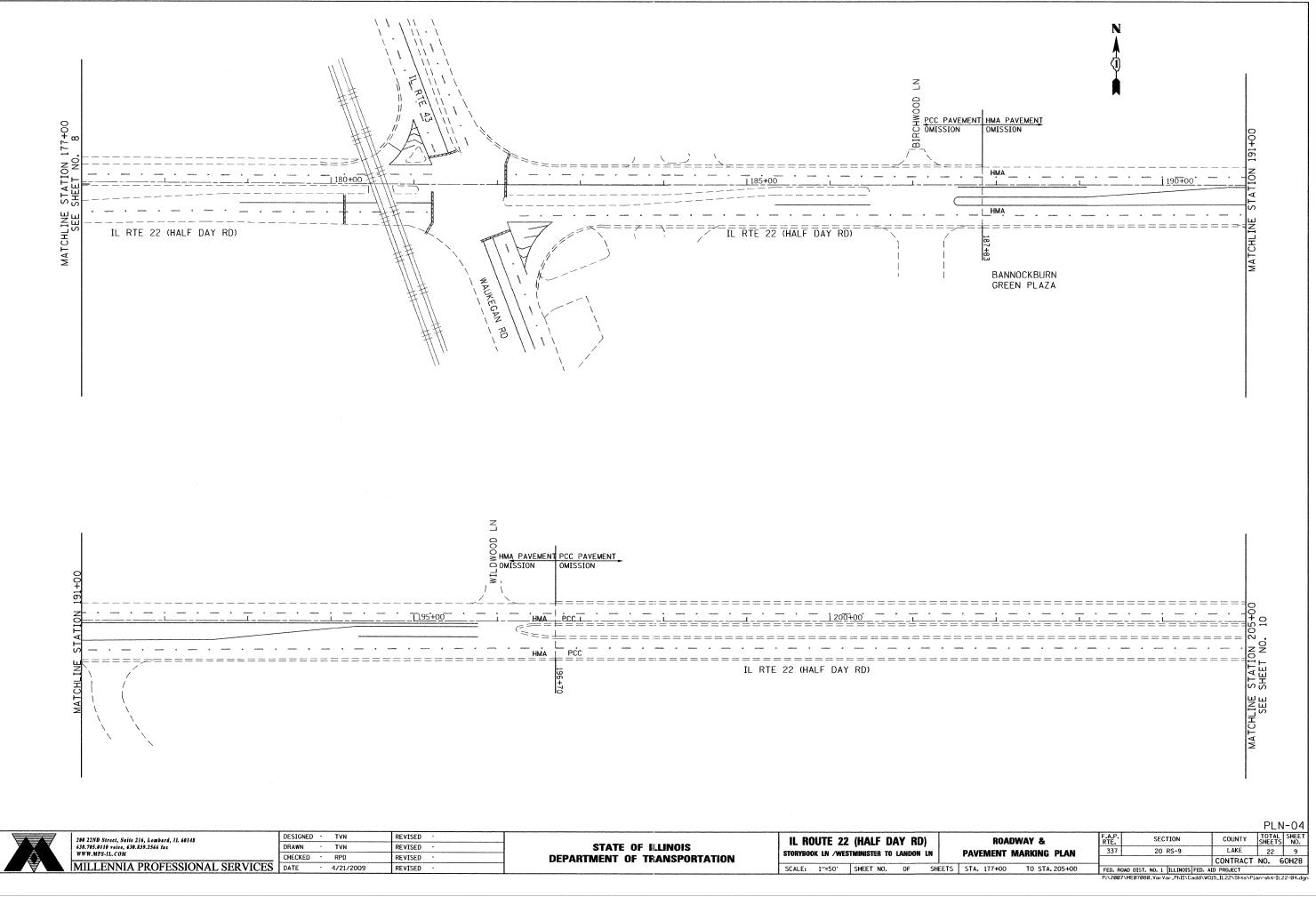
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL ROUTE 22 (HALF DAY RD) STORYBOOK LN /WESTMINISTER TO LANDON LN SCALE: 1"=50" SHEET NO. OF SHEETS STA. 149+00 TO STA. 177+00

ROADWAY & PAVEMENT MARKING PLAN

TOTAL SHEET NO. COUNTY LAKE 337 20 RS-9 22 8 CONTRACT NO. 60H28

FED. ROAD DIST. NO. 1 | ILL INOIS | FED. AID | PROJECT | Pt\2007\ME07080_VorVor_PhII\Cadd\W015_IL22\Shts\Pla



MILLENNIA PROFESSIONAL SERVICES DATE

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DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 (HALF DAY RD) STORYBOOK LN /WESTMINISTER TO LANDON LN

PAVEMENT MARKING PLAN SCALE: 1"=50' SHEET NO. OF SHEETS STA. 177+00 TO STA. 205+00

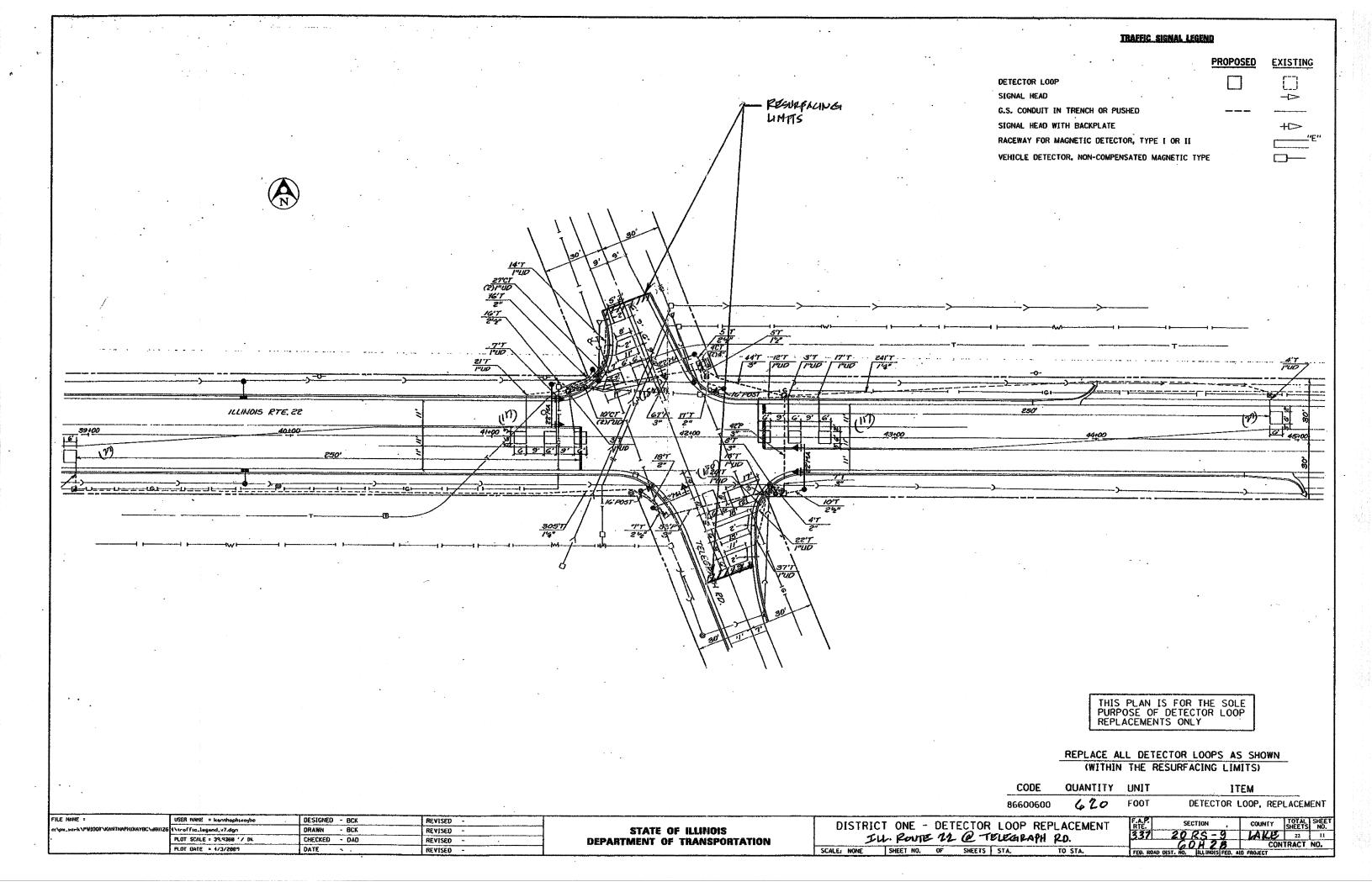
IMPROVEMENT ENDS STATION 211+77 MATCHLINE SEE

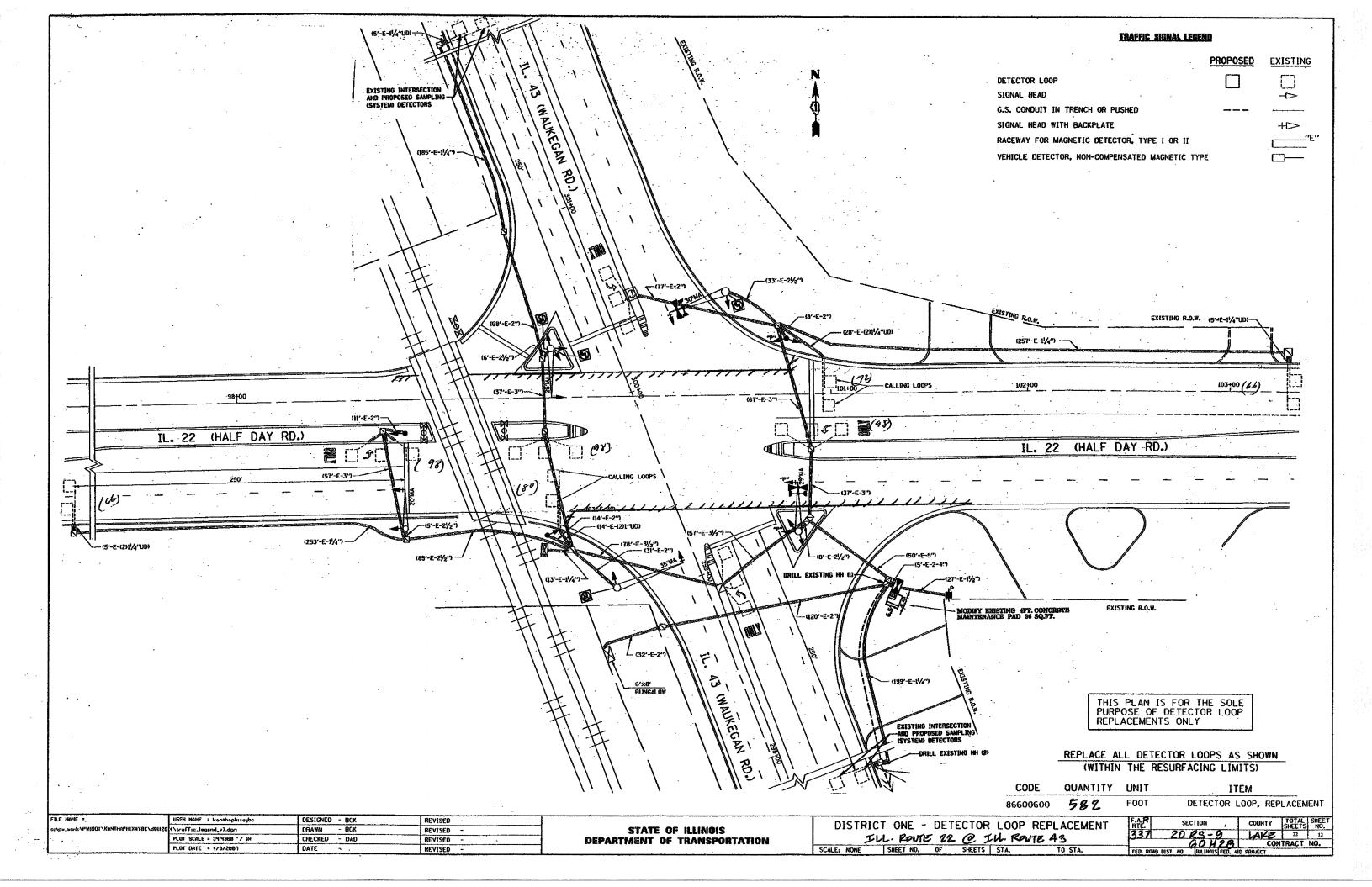
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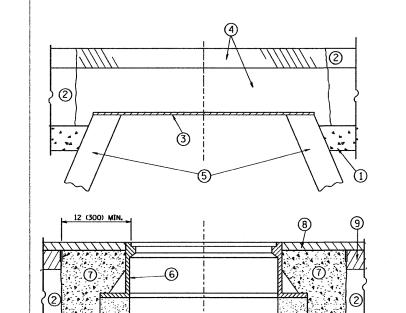
PLN-05 COUNTY TOTAL SHEET NO.

LAKE 22 10 SECTION 20 RS-9

F.A.P. RTE. 337 IL ROUTE 22 (HALF DAY RD) ROADWAY & STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION STORYBOOK LN /WESTMINISTER TO LANDON LN PAVEMENT MARKING PLAN SCALE: 1"=50" SHEET NO. OF SHEETS STA. 205+00 TO STA. 219+00







PROPOSED

PROPOSED

SAND FILL

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.

NOTES:

BRICK, MORTAR, OR CONC.

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 1½ (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 SI 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.

- PROPOSED SAND FILL

LEGEND

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

DESIGNED - R. SHAH USER NAME = gaglianobt REVISED - R. SHAH 03-10-95 :\diststd\22x34\bd08.dgr DRAWN REVISED - A, ABBAS 03-21-97 PLOT SCALE = 50.0000 '/ IN. CHECKED REVISED - R. WIEDEMAN 05-14-04 DATE 10-25-94 REVISED - R. BORO 01-01-07

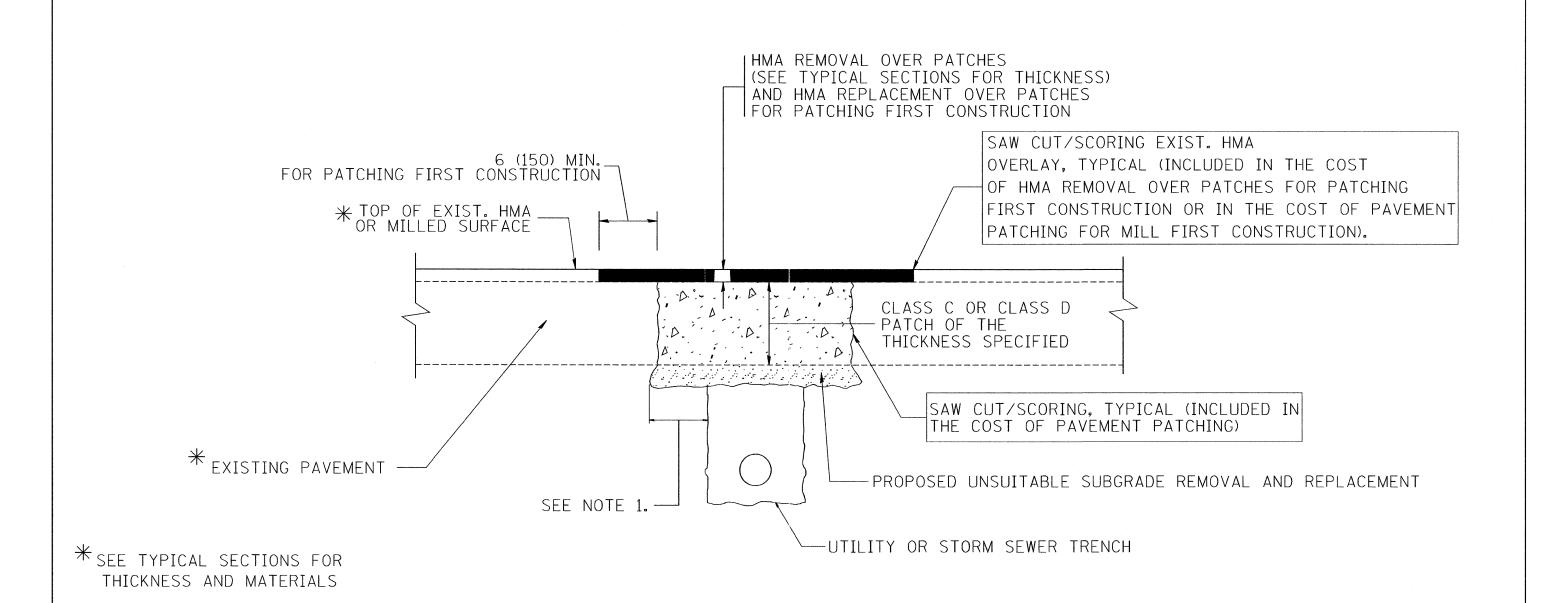
FILE NAME =

STATE OF ILLINOIS

	DETAILS FOR							
	FRAMES	S AND	LIDS	ADJUSTM	ENT WITH	MILLING		
SCALE: NONE	SHEET	NO. 1	OF 1	SHEETS		T0		

TOTAL SHEET SHEETS NO. 337 20 RS-9 LAKE 22 13 BD600-03 (BD-8) CONTRACT NO. 60H28

DEPARTMENT OF TRANSPORTATION



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 (PATCHING FIRST)

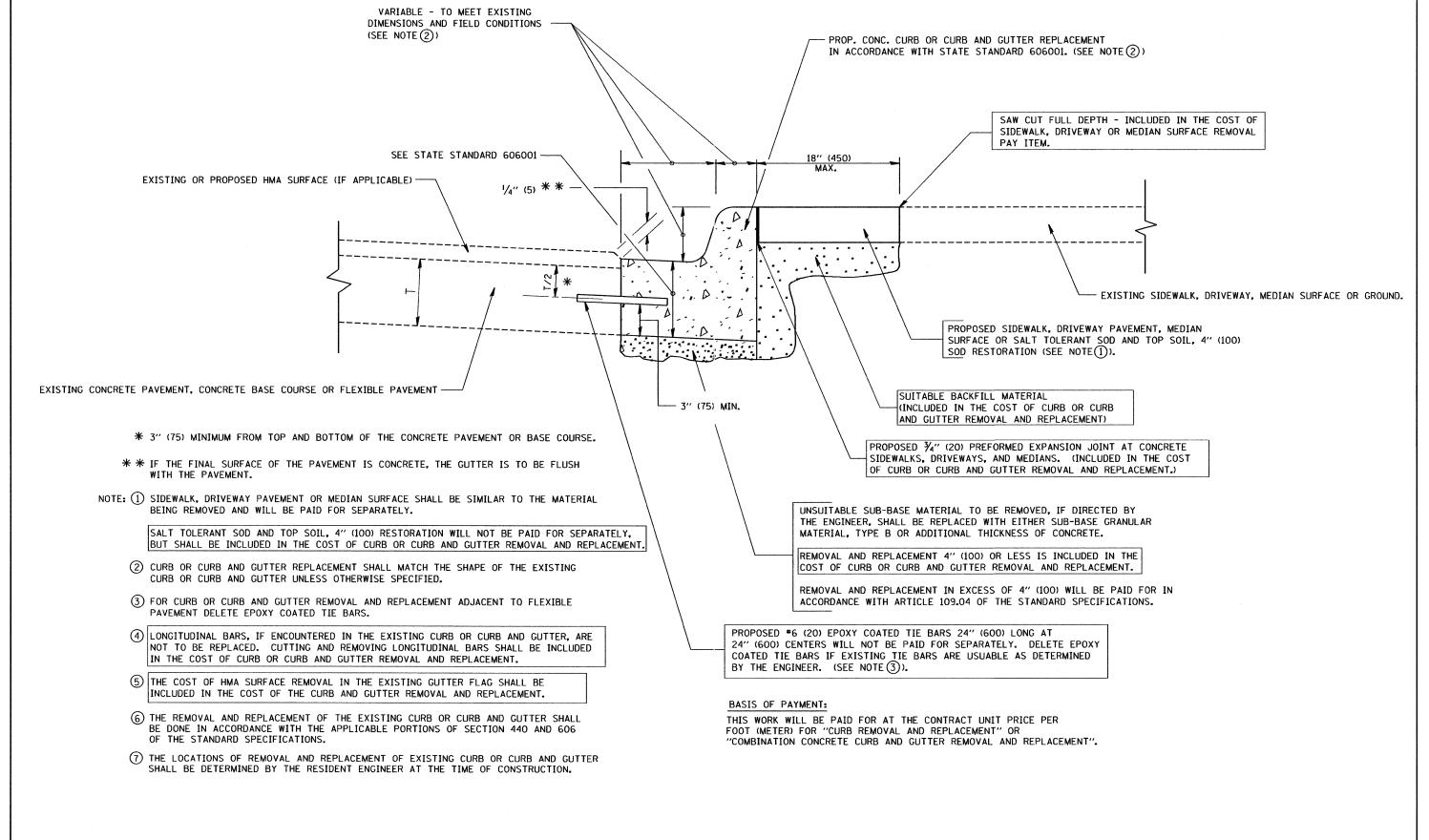
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

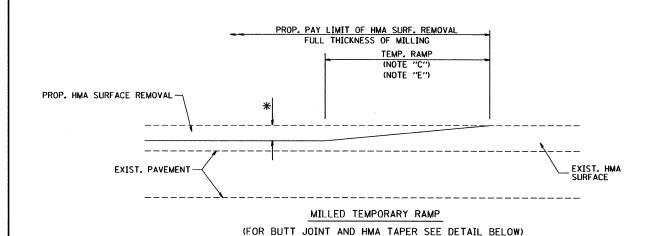
FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A. SECTION	COUNTY TOTAL SHEET
c:\projects\diststd22x34\bd22.dgn		DRAWN -	REVISED ~ R. BORO 01-01-07	STATE OF ILLINOIS		337 20 RS-9	LAKE 22 14
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (BD-22)	CONTRACT NO. 60H28
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AI	



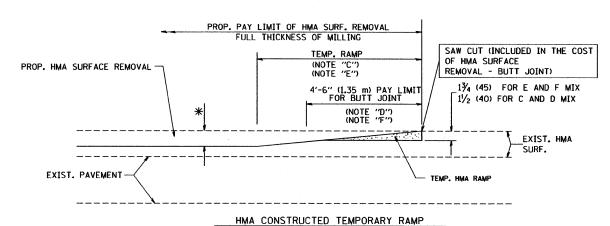
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96			CURB OR CURB AN	D CUTTED	F.A.	SECTION	COUNTY	TOTAL	SHEET
W:\diststd\22x34\bd24.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS				337	7 20 RS-9	LAKE	22	15
•	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION	REMOVAL AND REPLACEMENT		ACEMENT	-	BD600-06 (BD-24)	CONTRAC	T NO. 601	H28
	PLOT DATE = 1/4/2008	DATE - 03-11-94	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED.	. ROAD DIST. NO. 1 ILLINOIS FED.			



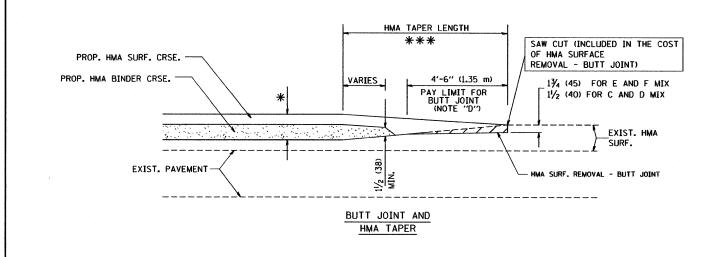
OPTION 1



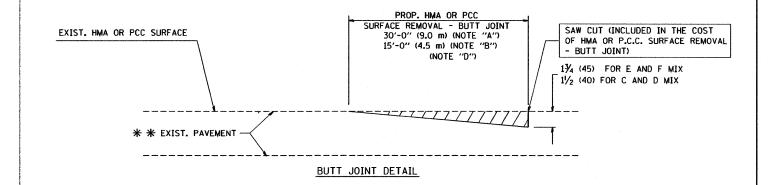
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

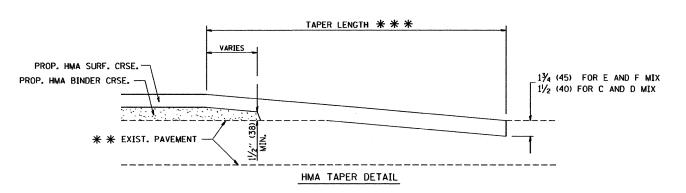
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

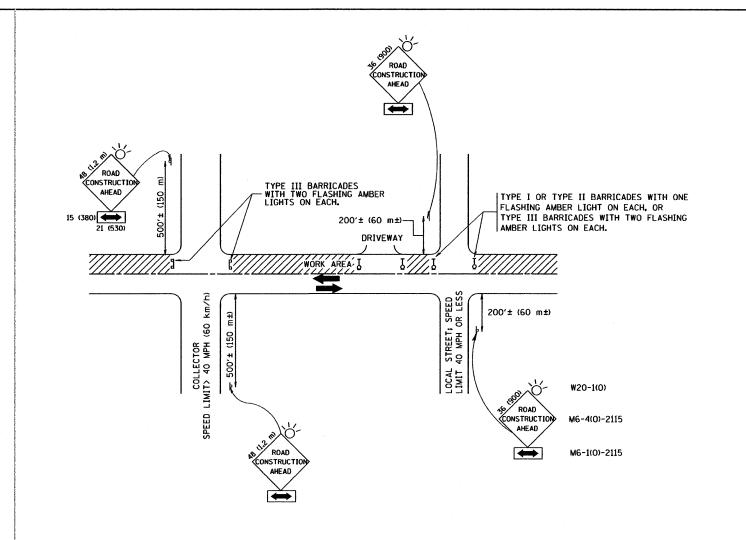
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (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")

BASIS OF PAYMENT:

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

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

FILE NAM	ME ≃	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94		DUTT JOINT AND	F.A	SECTION	COUNTY	TOTAL
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	-	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01		HMA TAPER DETAILS	337	20 RS-9	LAKE	22
					DEPARTMENT OF TRANSPORTATION		BI	D400-05 BD32	CONTRACT	T NO. 60
L		PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	ID PROJECT	



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- o) ONE ROAD CONSTRUCTION AHEAD SIGN 48 \times 48 (1.2 m \times 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-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.

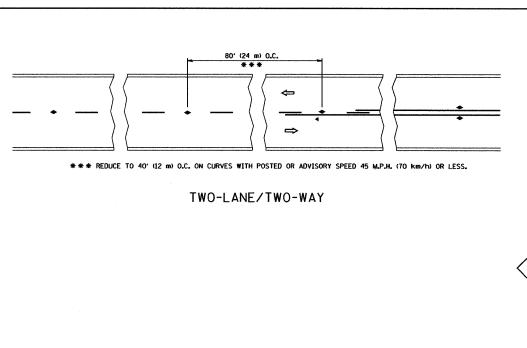
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
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	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF THANSPORTATION

	TRAFFIC	CONTRO	L AND P	ROTECTION	FOR
	SIDE ROADS	S, INTER	SECTIONS,	AND DRIV	/EWAYS
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.

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	TC-10		CONTRACT	NO. 60	H28						
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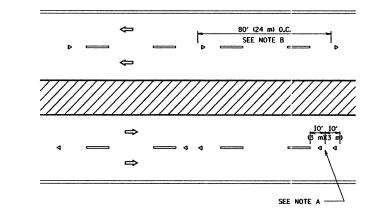


80' (24 m) O.C.

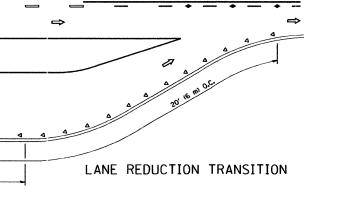
SEE NOTE A-

40' (12 m) O.C.

MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED



3 e 40' (12 m) O.C.



- 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.

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.

SYMBOLS

---- YELLOW STRIPE

80' (24 m) O.C.

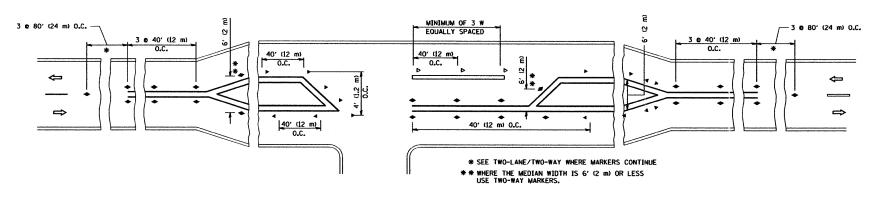
40' (12 m) 0.C.

1 C

- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKE

DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 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.
- 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

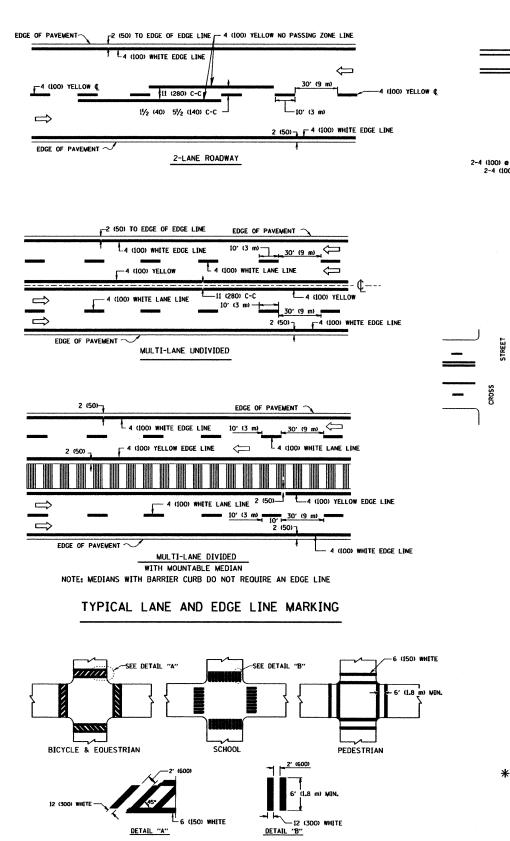
All dimensions are in inches (millimeters) unless otherwise shown.

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1		PLOT DATE = 1/4/2008	DATE -	REVISED -	

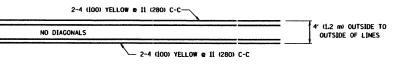
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	TYPICAL APPLICATIONS	
RAISED	REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW	RESISTANT)
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.

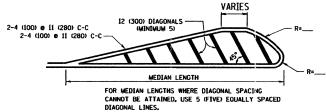
unless	otherwise shown.			
 F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE
337	20 RS-9	LAKE	22	18
	TC 11	CONTRACT	NO co	LIZO



TYPICAL CROSSWALK MARKING



4' (1.2 m) WIDE MEDIANS ONLY

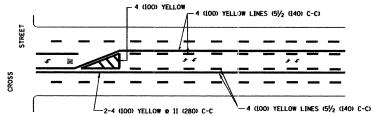


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))

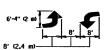
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))

150' (45 m) C-C (40RE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

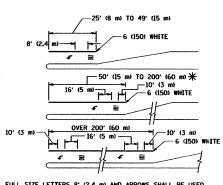


A WINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



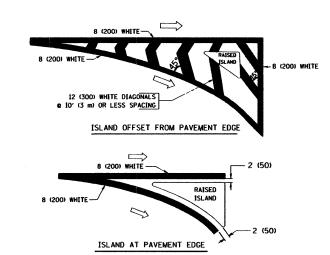
MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



* 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 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 UNDIVEDED PAVEMENT	2 e 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 0 4 (100)	SOLID SOLID	AETFOM AETFOM	5½ (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 e 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 e 6 (150) 12 (300) e 45° 12 (300) e 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' 11.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 e 4 (100) WITH 12 (300) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE
	e 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	01AGONALS: 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" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) e 45°	SOLID	WHITE - RICHT 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))

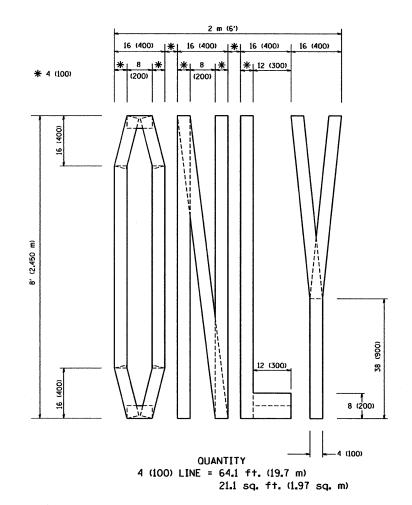
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

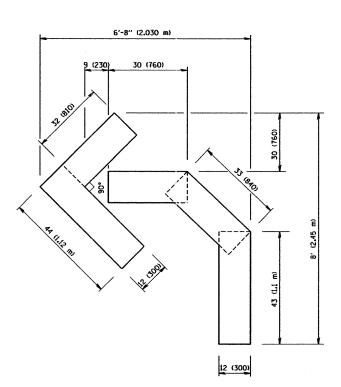
All dimensions are in inches (millimeters) unless otherwise shown.

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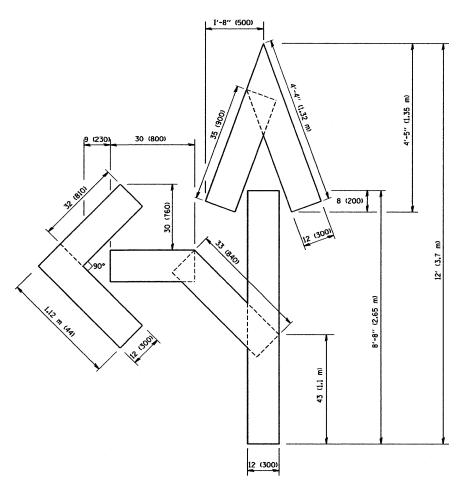
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1	Wz\diststd\22x34\tcl3.dgn		DRAWN -	REVISED -A, HOUSEH 10-09-96	STATE OF ILLINOIS		DISTRICT ON	
1		PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -A. HOUSEH 10-17-96	DEPARTMENT OF TRANSPORTATION	ĺ	TYPICAL PAVEMENT I	MARKINGS
		PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.

	DI	STRICT OF	VE		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TYPICAL PA	WEBSERIT	MADVINCE		337	20 RS-9	LAKE	22	19
	11FIGAL FA	4A CIAICIA I	IWANDINGS	•		TC-13	CONTRACT	NO. 60	H28
ALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AL	D PROJECT		





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



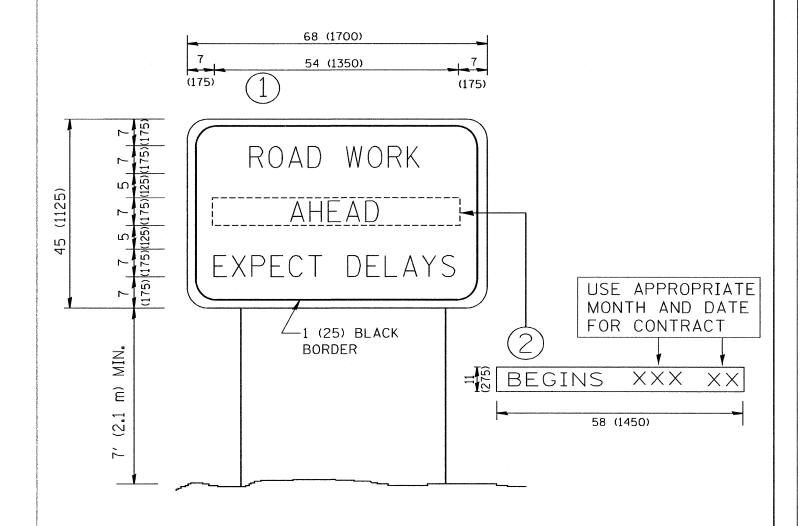
OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96					
W:\diststd\22x34\tcl6.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97					
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98					
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. COMEZ 08-28-00					

STATE OF ILLINOIS
DEPARTMENT OF THANSPORTATION

	PAVEMENT MARKING LETTERS AND SYMP					RS AND	SYMBOLS	F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE
FOR TRAFFIC STAGING						337	20 RS-9	LAKE	22	20		
FOR TRAFFIC STABING								TC-16	CONTRACT	NO. 6	0H28	
 SCALE: NONE	SHEET N	0. 1	OF	1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

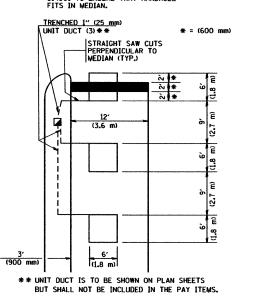
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	4	ARTERIAL ROAD	F.A. SECTION	COUNTY TOTAL SHEET NO.
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		337 20 RS-9	LAKE 22 21
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN	TC-22	CONTRACT NO. 60H28
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS	

LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER (1.5 m) (1.8 m) (1.5 m) 1" (25 mm) UNIT (3.0 m)(3.0 m) * = (600 mm) * * 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)

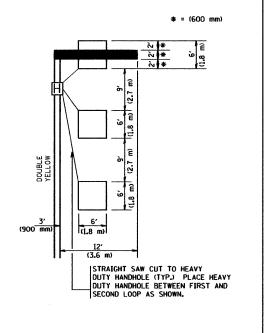
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE



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

LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

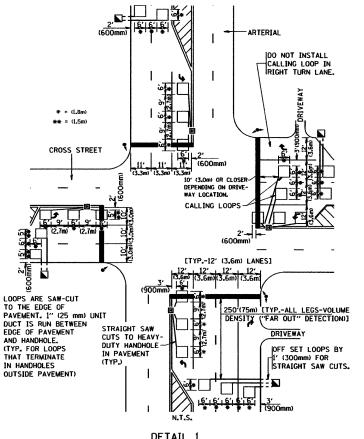
(PROTECTED / PERMITTED LEFT TURN PHASING)

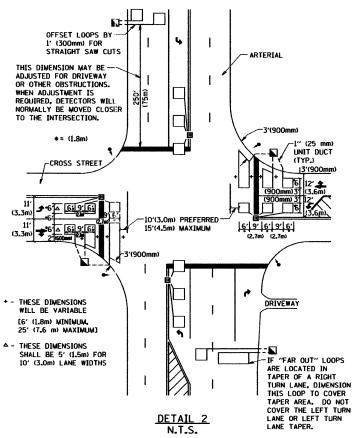


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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

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





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 SEPARATLY, 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.

TOTAL SHEET SHEETS NO. 22 22

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -				
W:\diststd\22x34\ts07.dgn		DRAWN -	REVISED -				
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - R.K.F.	REVISED -				
	PLOT DATE = 1/4/2008	DATE -	REVISED -				

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

-	DISTRICT 1 – DETECTOR LOOP INSTALLATION	F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
ı	DETAILS FOR ROADWAY RESURFACING	337	20 RS-9	LAKE	22	22
1			TS-07	CONTRACT	NO. 60	H28
ı	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		